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ENVIRONMENTAL NOISE ASSESSMENT

58 Richmond Street, Manchester M1 3LY

Clients:

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Site Visit date: 6th & 12th April 2018

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1.0 INTRODUCTION

At the request of Howard & Seddon Architects, Martec Environmental Consultants Ltd. undertook an assessment of noise at a development site located at 58 Richmond Street, Manchester M1 3LY.

This report considers measurements taken on this site, the requirements of current government and local authority guidance and makes recommendations for noise mitigation as necessary. Acoustic Terminology is set out at Appendix 1 with the author's qualifications and experience at Appendix 2, References at Appendix 3 and full noise measurements at Appendix 4.

2.0 PROJECT BACKGROUND

The proposals are described in greater detail elsewhere in the application, but in brief the existing building on site would be remain as commercial at basement and ground floor levels, with the upper two floors being converted to residential; in addition, an extension would be constructed on the southwestern gable end; the extension would consist of commercial at ground floor level [no basement] with four residential floors above. It is understood that the ground and basement floors would be office uses, i.e. with no noise impact on the residential floors above.

The site is located in Manchester City Centre close to the Canal Street area and hence is exposed to entertainment noise during the evening and nighttime.

The site location is shown in Figure 1. There are several evening/nighttime entertainment venues nearby. It is understood that nighttime "people" and entertainment noise are the main noise issues of concern to the local authority.

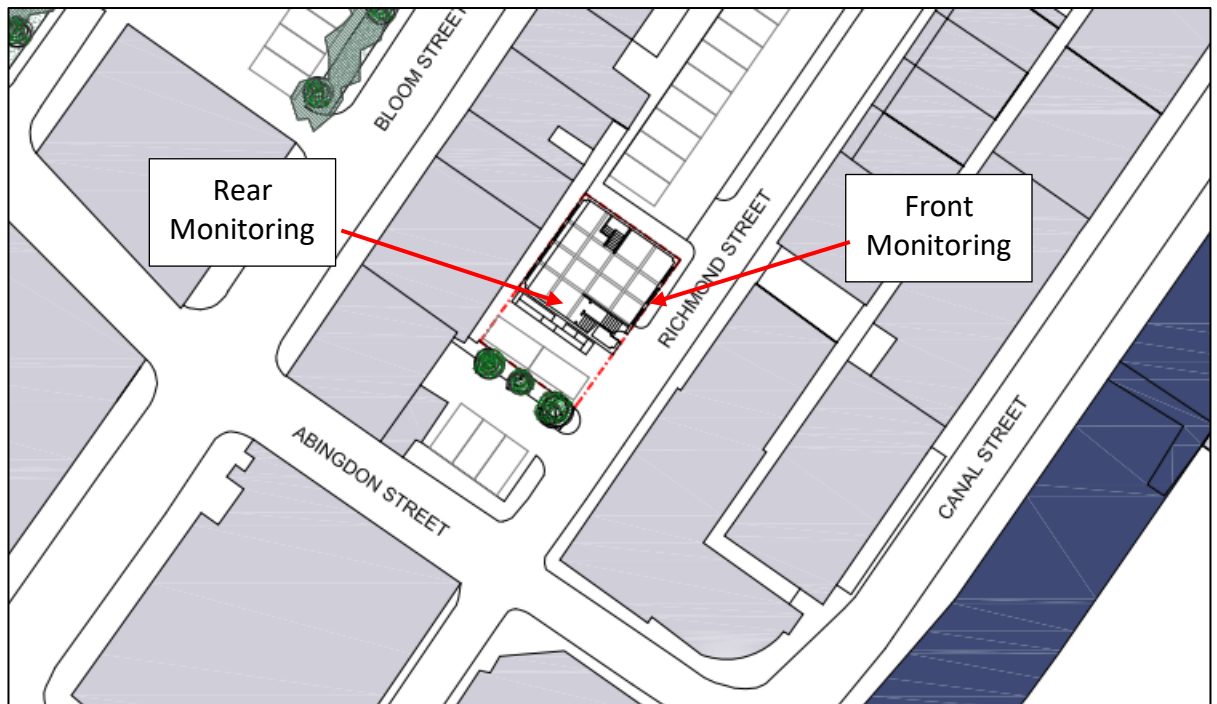


Figure 1: Location Plan of Site

We have based the predictions on the following Howard & Seddon project drawings [referenced 12,764] – Nos 01A, 02D, 03C, 04D, 05E, 06F, 07F.

3.0 ASSESSMENT CRITERIA

3.1 National Planning Policy Guidance - Noise

3.1.1 The Use of Quantitative Standards

The first comment to make about the new guidance, issued in March 2014, is that it is qualitative, lacking quantitative guidance on acceptable noise levels for general industrial or commercial noise. In addition, there is no direct reference to using British (or other) Standards to assess noise; i.e. the previous guidance [PPG24] directly referred to both BS8233 and BS4142; therefore, the current government guidance does not appear to endorse directly the use of these documents.

At paragraph 10 of the Noise Guidance, it is stated that local plans can include noise standards, which presumably would/could be based upon relevant British Standards. Paragraph 10 states: *“Care should be taken, however, to avoid these being implemented as fixed thresholds as specific circumstances may justify some variation being allowed.”*

So that it is clear that current guidance envisages that quantitative standards may be used, provided that there is flexibility in their application.

3.1.2 The Qualitative Guidance in NPPG - Noise

In paragraph 5 various noise categories and thresholds are set out; up to and including “Noticeable and Intrusive” it seems likely that the intention would be to recognise that whilst the noise levels are not desirable, planning consent should be granted provided that the noise can be mitigated and the intrusion reduced to a minimum. “Noticeable and Intrusive” noise occurs when:

“Noise can be heard and causes small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life.”

Above the “Significant Observed Adverse Effect Level” threshold, noise becomes “Noticeable and Disruptive” because:

“The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.”

Noise which is “Noticeable and disruptive” should be avoided; however, it is the next level of disturbance “Noticeable and very disruptive” that should be prevented.

It can be seen that the NPPG noise guidance envisages that if properties are provided with alternative ventilation and acoustic glazing, designed to ensure “acceptable” internal noise levels, then internal noise levels would not exceed the “Significant Observed Adverse Effect Level” and that planning consent could be granted. The guidance states *“If the exposure is above this level the planning process should be used to avoid this effect occurring, by use of appropriate mitigation such as by altering the design and layout.”*

Clearly the provision of acoustic glazing and ventilation cannot change external noise levels; therefore, it follows that the NPPG-Noise is not based on assessments of external noise such as BS4142 or BS8233's provisions for external noise, i.e. the wording of the Guidance does not support the use of BS4142 or the provisions of BS8233 in relation to external noise.

The remaining question would then be whether the noise “Affects the acoustic character of the area such that there is a perceived change in the quality of life.” OR “Quality of life diminished due to change in acoustic character of the area”. It should be noted that these definitions, relating to external noise, use the term “...the acoustic character of the area”, i.e.

no specific requirements are placed on amenity space noise levels, whether private or communal.

At Paragraph 9, the Guidance states that there are other matters that can mitigate the impact of noise on residential developments if residents “...have access to:

1. *a relatively quiet facade (containing windows to habitable rooms) as part of their dwelling, and/or;*
2. *a relatively quiet external amenity space for their sole use, (e.g. a garden or balcony). Although the existence of a garden or balcony is generally desirable, the intended benefits will be reduced with increasing noise exposure and could be such that significant adverse effects occur, and/or;*
3. *a relatively quiet, protected, nearby external amenity space for sole use by a limited group of residents as part of the amenity of their dwellings, and/or;*
4. *a relatively quiet, protected, external publically accessible amenity space (e.g. a public park or a local green space designated because of its tranquillity) that is nearby (e.g. within a 5 minutes walking distance)”*

It can be seen that in noise terms it is not a requirement that residents have access to either a public or communal external “quiet” amenity

space, although if they have access to such a space it can “partially offset” the impact of noise on residential developments.

3.2 British Standard 8233:2014

The latest version of BS8233:2014 ‘Guidance on Sound Insulation and Noise Reduction for Buildings’, published February 2014, supersedes the 1999 version and states the following:

“In general, for steady external noise sources, it is desirable that the internal ambient noise level does not exceed the guideline values in Table 4.

Table 4: Indoor ambient noise levels for dwellings

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living Room	35 LAeq,16hr	--
Dining	Dining Room/Area	40 LAeq,16hr	--
Sleeping (daytime resting)	Bedroom	35 LAeq,16hr	30 LAeq,8hr

The footnotes to this table explain that the guidance is based on the current WHO recommendations and that the above internal levels can be relaxed by 5dB to achieve “reasonable” internal conditions. The footnotes also make it clear that planning consent can be granted when

external levels exceed the WHO guidance targets provided that appropriate internal noise levels are achieved.

In Section 7.7.1 it is stated that the above noise limits apply to sources without a specific character and that *"Noise has a specific character if it contains features such as a distinguishable, discrete and continuous tone, is irregular enough to attract attention, or has strong low frequency content, in which case lower noise limits might be appropriate."* No guidance is provided on how the limits should be modified if the noise has a specific character.

With regard to external levels, BS8233:2014 states:

"7.7.3.2 Design criteria for external noise For traditional external areas that are used for amenity space, such as gardens and patios, it is desirable that the external noise level does not exceed 50 dB LAeq,T, with an upper guideline value of 55 dB LAeq,T which would be acceptable in noisier environments. However, it is also recognized that these guideline values are not achievable in all circumstances where development might be desirable. In higher noise areas, such as city centres or urban areas adjoining the strategic transport network, a compromise between elevated noise levels and other factors, such as the convenience of living in these locations or making efficient use of land resources to ensure development needs can be met, might be warranted. In such a situation,

development should be designed to achieve the lowest practicable levels in these external amenity spaces, but should not be prohibited.

Other locations, such as balconies, roof gardens and terraces, are also important in residential buildings where normal external amenity space might be limited or not available, i.e. in flats, apartment blocks, etc. In these locations, specification of noise limits is not necessarily appropriate. Small balconies may be included for uses such as drying washing or growing pot plants, and noise limits should not be necessary for these uses. However, the general guidance on noise in amenity space is still appropriate for larger balconies, roof gardens and terraces, which might be intended to be used for relaxation. In high-noise areas, consideration should be given to protecting these areas by screening or building design to achieve the lowest practicable levels. Achieving levels of 55 dB LAeq,T or less might not be possible at the outer edge of these areas, but should be achievable in some areas of the space.”

From the wording, it is clear that there is no intention for the guideline noise levels to be applied to the general spaces external to apartment blocks and that the limits are only intended to apply to more private amenity spaces such as gardens and patios and larger balconies where residents would be expected to spend some time relaxing.

The wording of BS8233 also makes it clear that the guideline noise levels for gardens, patios, larger balconies etc, are not overriding planning considerations in any event.

3.3 MCC Guidance on Entertainment Noise

The guidance issued by Manchester City Council on entertainment noise states:

"Music noise levels in the 63Hz and 125Hz octave centre frequency bands (Leq) should be controlled so as not to exceed (in habitable rooms) 47dB and 41dB (Leq), respectively."

We have interpreted this requirement as applying to the maximum measured LAeq,15min in the 63 and 125Hz octave bands whilst the entertainment venues are open.

The MCC Guidance states that it is based on work undertaken by Salford University "Proposed criteria for the assessment of low frequency noise disturbance - Revision 1 - December 2011 - Contract no NANR45". This document sets the above limits [in terms of third octaves] at night and allows 5dB higher limits, if the noise only occurs during the day. We have presumed that MCC would therefore increase its limits on the same basis, although not explicitly stated in its Guidance, i.e. the daytime [07-23:00hrs] for habitable rooms would be 5dB higher than those stated above.

4.0 MEASUREMENTS

The noise measurements were made 1m outside the rear of the building on the second [top] floor, and at the front of the building on the first floor; both meters were fitted with a RION WS03 "all weather" windmuff. The measurement locations were at a façade and are indicated in Figure 1.

The instrumentation calibrated correctly before and after measurements and had been laboratory calibrated in the preceding two years.

Model	Instrument	Serial No.	Lab Cal Certificate	Date of Due Calibration
C Svan 957	Sound Level Meter	23201	23201/69978	29/03/2019
Svan SV12L	Preamp	24265	23201/69978	29/03/2019
PCB 377B02	Microphone	LW136090	23201/69978	29/03/2019
D - Svan 957	Sound Level Meter	12329	12329/69865	08/03/2019
Svan SV12L	Preamp	13568	12329/69865	08/03/2019
PCB 377B02	Microphone	LW135627	12329/69865	08/03/2019
B&K 4231	Calibrator	2054928	2084928/68198	25/07/2018

Table 1: Instrumentation used on site

The instrumentation was installed at midday on Friday 6th and removed mid-morning on Thursday 12th April 2018.

In order to facilitate simultaneous recording of the noise, the meters reset between 11:45am and midday daily and no measurements or recordings were made during these periods. It is not considered that the daily “omission” of these 15-minute periods is significant.

Naturally the weather conditions varied during the six days of monitoring, but over the weekend in particular, wind speeds were generally low,

temperatures warm with no rain, except for mid-morning on Saturday; consequently, it is considered unlikely that the weather conditions would have significantly influenced the assessment.

5.0 RESULTS

The period LAeq results are as shown in Table 2 below:

Period		Rear Façade		Front Façade	
Day	Date	Day LAeq,16hr	Night LAeq,8hr	Day LAeq,16hr	Night LAeq,8hr
Fri	06-Apr	57.2	60.1	60.8	64.6
Sat	07-Apr	58.1	61.5	62.6	66.9
Sun	08-Apr	56.3	55.8	60.4	60.8
Mon	09-Apr	58.1	56.0	62.4	61.0
Tue	10-Apr	59.4	55.6	62.2	60.1
Wed	11-Apr	58.5	60.4	62.3	65.9
Thu	12-Apr	53.6	--	58.5	--

Table 2: Period Results [dB façade]

From listening to the recordings, both music noise and people noise can be heard during the nighttime periods. If we plot the lower third octave results for the Friday night, which in music terms was the louder night, at the front façade in Figure 2:

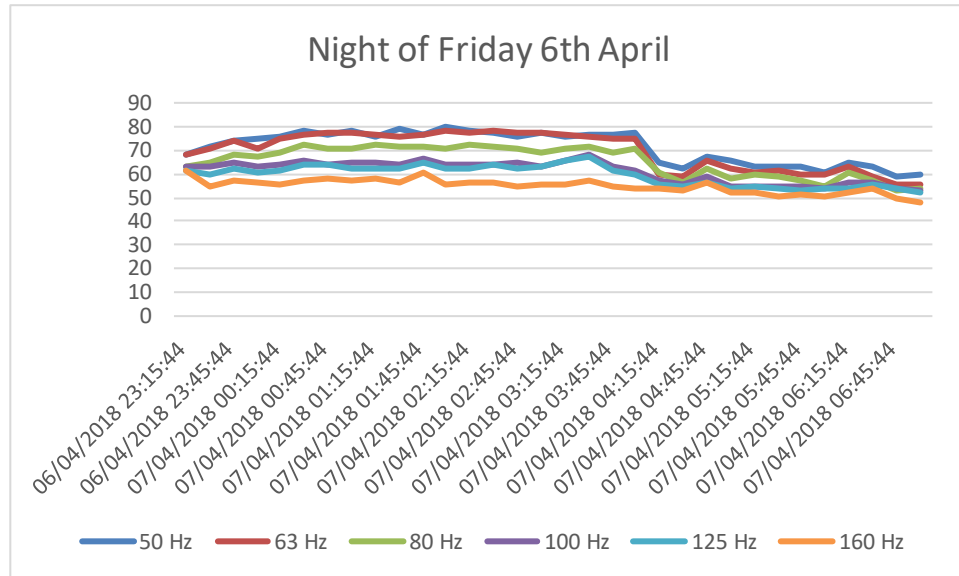


Figure 2: Front Facade Noise Levels [Leq,15min]

From Figure 2, it can be seen that there is a source of low frequency noise reaching a “crescendo” at 04:00hrs and ending immediately afterwards; presumably the levels were produced by a nearby nightclub, which can be heard in the recordings. Saturday night was louder for “people” noise:

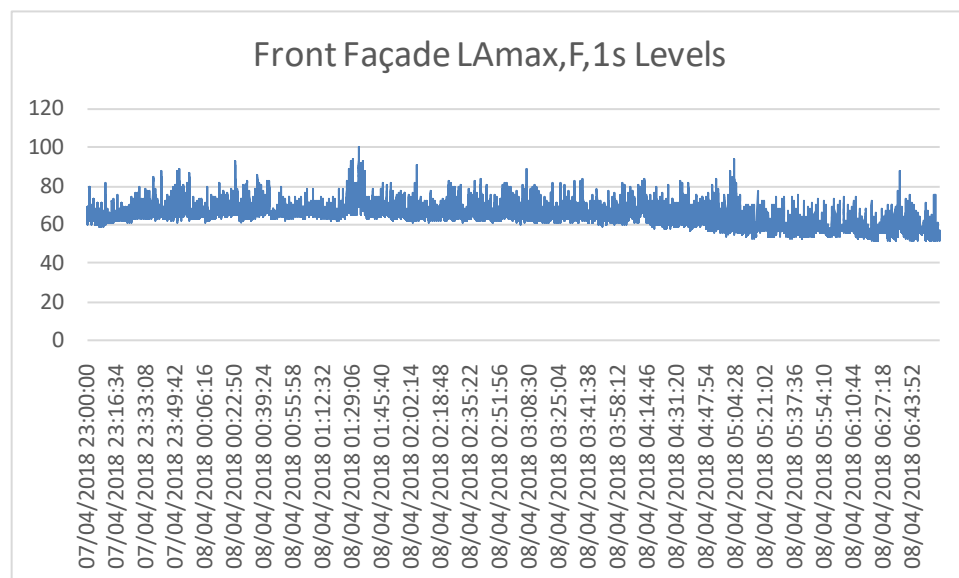


Figure 3: Saturday Night 7-8/4/18 [dB facade]

In Figure 3 the 10th highest LA_{max} level was 88.2 dB [free field] and the period of highest LA_{max} levels occurred between 01:30 and 01:45 hours, listening to the recordings the highest LA_{max} levels can be identified as voices.

Table 3 details the Leq spectrum of the Saturday day and night periods as well as the period of highest “music” noise levels for the period 03:45-04:00hrs on Friday Night, as well as the spectrum of the highest “people” noise levels [L01] for the period 01:30 and 01:45hrs on Saturday night.

Period	Times	Metric	Octave Band Centre Frequency [Hz]							dBA
			63	125	250	500	1000	2000	4000	
Sat Day	07:00-23:00	Leq	63.6	57.5	58.3	57.3	54.3	51.0	48.7	59.6
Sat Night	23:00-07:00	Leq	75.0	63.4	58.3	58.7	61.3	55.1	48.0	63.9
Fri Music	03:45-04:00	Leq	77.4	61.0	56.8	56.6	56.9	51.7	44.9	60.7
Sat People	01:30-01:45	L01	88.3	73.1	67.4	74.7	84.7	76.6	68.8	88.2 10th L _{max}

Table 3: Results from Front Monitoring Position [dB free field]

6.0 ASSESSMENT OF RESULTS

6.1 External Levels

The only external area would be a top floor balcony for Apartment 3N; the measurements lower down the front façade of the building, indicate daytime levels around 62 LA_{eq,16hrs} [façade] equivalent 59 LA_{eq,16hrs} [free field]. Predicting noise levels higher up the building on the small balcony is problematic; ordinarily the balcony parapet would be expected

to provide a shielding effect of at least 5dB, i.e. ensuring that noise levels were no more than 55 LAeq,16hr [free field]; however, there could be a “canyon effect” [bouncing reflections] off the buildings either side of the street, which would limit the effect of the balcony.

In summary, given the wording of BS8233 *“In higher noise areas, such as city... a compromise between elevated noise levels and other factors, such as the convenience of living in these locations or making efficient use of land resources to ensure development needs can be met, might be warranted. In such a situation, development should be designed to achieve the lowest practicable levels in these external amenity spaces but should not be prohibited”*.

It is assumed that MCC will accept that the solid balcony parapet indicates that the lowest practical levels have been achieved.

6.2 Internal Noise Levels

The measured external levels in Tables 3 can be used to predict internal noise levels using the methodology described in BS EN 12354-3:2000 [Reference 5].

Based on room and window sizes from the Howard & Seddon plans and experience elsewhere the following has been assumed:

- The reverberation time of a bedroom has been taken as 0.3 seconds and 0.5 seconds for a living room.

- The most affected rooms would be those with the highest proportion of window area to room volume.
- It has been assumed that the ventilation system would not require vents [Approved Document F System 4]
- The walls are brick or block cavity construction and **not** timber frame with lightweight cladding.
- The glazing would be 8 (20) 12.8A acoustic glazing from Saint Gobain.

6.2.1 Music Noise Predictions

BS EN 12354-Calcs		Use	Volume	Volume		84.0		LAeq Ext		60.7	
Version	4	length	2.8					LAeq Int		21.5	
© 2014 Martec Environmental Consultants Ltd		width	2	RT		0.5		dBA Diff		39	
& Acute Acoustics Ltd		height	2.4	Octave Band Centre Frequency [Hz]							dBA
			63	125	250	500	1k	2k	4k		
External Spectrum Leq (Free Field & Linear)			77.4	61.0	56.8	56.6	56.9	51.7	44.9	60.7	
Adjustment to Given Level if required											
External Spectrum Adjusted for Level			77.4	61.0	56.8	56.6	56.9	51.7	44.9	60.7	
			Element Sound Reduction Index [SRI]							Contrib	
Wall	Typical ADE T2 Cavity Blockwork wall, dry lined	Area m2	23.7	50	55	58	62	69	68	82	4.9
Window	8 (20) 12.8A	10.8		35	27	33	41	47	43	54	21.4
Window	None	0.0		0	0	0	0	0	0	0	0.0
Door	None	0.0		0	0	0	0	0	0	0	0.0
Roof	None	0.0		0	0	0	0	0	0	0	0.0
			# Vents								
Vent Dn,e	None	0.0		0	0	0	0	0	0	0	0.0
										dBA	
Internal SPL/dBLin			41.7	33.0	22.8	14.7	9.0	7.7	-10.1	21.5	

Table 4: Friday Night Music Noise – Apartment 3N Kitchen/Living Room

From Table 4, it can be seen that the predicted internal nighttime levels in the 63Hz and 125Hz bands, meet the limits of 47 and 41 dB from MCC criteria on music noise.

Table 4 also indicates that even if similar noise levels persisted all day [07-23:00hrs] that the BS8233 limit of 35 LAeq,16hr would be met.

Similar predictions can be performed for the first-floor bedroom in the older section of the building in Table 5 below:

BS EN 12354-Calcs			Use	Volume	Volume		53.2	LAeq Ext			60.7	
Version	4		length	2.8				LAeq Int			20.6	
© 2014 Martec Environmental Consultants Ltd			width	2	RT		0.3	dBA Diff			40	
& Acute Acoustics Ltd			height	2.4	Octave Band Centre Frequency [Hz]							dBA
				63	125	250	500	1k	2k	4k		
External Spectrum Leq (Free Field & Linear)				77.4	61.0	56.8	56.6	56.9	51.7	44.9	60.7	
Adjustment to Given Level if required												
External Spectrum Adjusted for Level				77.4	61.0	56.8	56.6	56.9	51.7	44.9	60.7	
				Element Sound Reduction Index [SRI]							Contrib	
Wall	200mm single skin brick			10.9	39	38	42	50	58	64	68	13.4
Window	8 (20) 12.8A			7.6	35	27	33	41	47	43	54	19.6
Window	None			0.0	0	0	0	0	0	0	0	0.0
Door	None			0.0	0	0	0	0	0	0	0	0.0
Roof	None			0.0	0	0	0	0	0	0	0	0.0
				# Vents								
Vent Dn,e	None			0.0	0	0	0	0	0	0	0	0.0
											dBA	
Internal SPL/dBlin				41.6	31.7	21.8	13.6	7.6	6.0	-11.6	20.6	

Table 5: Music Noise – Apartment 1A Bedroom

From Table 5, it can be seen that the predicted internal nighttime levels in the 63Hz and 125Hz bands, based on the loudest 15min of measured music noise, meet the limits of 47 and 41 dB from MCC criteria on music noise.

6.2.2 Period Noise Predictions

BS EN 12354-Calcs		Use	Volume	Volume		53.2		LAeq Ext		59.6	
Version	4	length	2.8					LAeq Int		18.3	
© 2014 Martec Environmental Consultants Ltd		width	2	RT		0.3		dBA Diff		41	
& Acute Acoustics Ltd		height	2.4	Octave Band Centre Frequency [Hz]							dBA
				63	125	250	500	1k	2k	4k	
External Spectrum Leq (Free Field & Linear)				63.6	57.5	58.3	57.3	54.3	51.0	48.7	59.6
Adjustment to Given Level if required											
External Spectrum Adjusted for Level				63.6	57.5	58.3	57.3	54.3	51.0	48.7	59.6
			Area m2	Element Sound Reduction Index [SRI]							Contrib
Wall	200mm single skin brick		10.9	39	38	42	50	58	64	68	9.6
Window	8 (20) 12.8A		7.6	35	27	33	41	47	43	54	17.7
Window	None		0.0	0	0	0	0	0	0	0	0.0
Door	None		0.0	0	0	0	0	0	0	0	0.0
Roof	None		0.0	0	0	0	0	0	0	0	0.0
			# Vents								
Vent Dn,e	None		0.0	0	0	0	0	0	0	0	0.0
											dBA
Internal SPL/dBlin				27.8	28.3	23.3	14.3	5.1	5.3	-7.8	18.3

Table 6: Saturday Daytime Noise – Apartment 1A Bedroom.

BS EN 12354-Calcs			Use	Volume	Volume			53.2		LAeq Ext		63.9	
Version	4		length	2.8						LAeq Int		22.0	
© 2014 Martec Environmental Consultants Ltd			width	2	RT			0.3		dBA Diff		42	
& Acute Acoustics Ltd			height	2.4	Octave Band Centre Frequency [Hz]								dBA
					63	125	250	500	1k	2k	4k		
External Spectrum Leq (Free Field & Linear)					75.0	63.4	58.3	58.7	61.3	55.1	48.0	63.9	
Adjustment to Given Level if required													
External Spectrum Adjusted for Level					75.0	63.4	58.3	58.7	61.3	55.1	48.0	63.9	
				Area m2	Element Sound Reduction Index [SRI]								Contrib
Wall	200mm single skin brick			10.9	39	38	42	50	58	64	68	13.6	
Window	8 (20) 12.8A			7.6	35	27	33	41	47	43	54	21.3	
Window	None			0.0	0	0	0	0	0	0	0	0.0	
Door	None			0.0	0	0	0	0	0	0	0	0.0	
Roof	None			0.0	0	0	0	0	0	0	0	0.0	
				# Vents									
Vent Dn,e	None			0.0	0	0	0	0	0	0	0	0.0	
													dBA
Internal SPL/dBlin					39.2	34.1	23.3	15.7	12.1	9.4	-8.5	22.0	

Table 7: Saturday Nighttime Noise – Apartment 1A Bedroom.

From Table 6 & 7, it can be seen that the predicted daytime and nighttime levels meet the respective BS8233 criteria for daytime and nighttime levels in bedrooms [35 LAeq,16hr & 30 LAeq,8hr].

6.2.3 L_{max,F} Noise Levels

BS8233:2014 does not contain recommendations for nighttime L_{max} levels. Purely as a comparison, the previous version of BS8233 [and the current WHO guidance] recommended that regular nighttime events should not exceed 45 dBA_F L_{Amax}; a prediction can be performed for the “people” L_{Amax} levels:

BS EN 12354-Calcs		Use	Volume	Volume			53.2	LAeq Ext			88.2		
Version	4	length	2.8					LAeq Int			40.9		
© 2014 Martec Environmental Consultants Ltd			width	2	RT			0.3	dBA Diff			47	
& Acute Acoustics Ltd			height	2.4									
				Octave Band Centre Frequency [Hz]								dBA	
				63	125	250	500	1k	2k	4k			
Sat Night L01 01:30-01:45 (Free Field Linear)				88.3	73.1	67.4	74.7	84.7	76.6	68.8	85.8		
Adjustment to Given Level if required												88.2	
External Spectrum Adjusted for Level				90.7	75.5	69.8	77.1	87.1	79.0	71.2	88.2		
			Area m2	Element Sound Reduction Index [SRI]								Contrib	
Wall	200mm single skin brick		10.9	39	38	42	50	58	64	68	31.0		
Window	8 (20) 12.8A		7.6	35	27	33	41	47	43	54	40.4		
Window	None		0.0	0	0	0	0	0	0	0	0.0		
Door	None		0.0	0	0	0	0	0	0	0	0.0		
Roof	None		0.0	0	0	0	0	0	0	0	0.0		
			# Vents										
Vent Dn,e	None		0.0	0	0	0	0	0	0	0	0.0		
												dBA	
Internal SPL/dBLin				54.9	46.2	34.8	34.1	37.8	33.3	14.7	40.9		

Table 8: Saturday Night “People” Noise – Apartment 1A Bed [L_{Amax}]

From Table 8, it can be seen that the predicted internal L_{max} levels meet the criteria from the World Health Organisation and do not exceed 45 dBA_F L_{Amax}.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Predictions based on the available information for the proposed building indicate that appropriate internal noise levels can be achieved by fitting the windows with acoustic glazing and ventilation.

The analysis is based on measurements at the front façade which was the more affected by noise; accordingly this will slightly overestimate the impact on the rear façade.

The apartments should be supplied with a system which extracts/supplies air, but which does not allow significant noise to enter from the outside, either because of the system's attenuation or because it vents to a quiet façade [Approved Document F System 4].

The sound insulation performance of the acoustic glazing should be as follows [or similar and approved]:

Octave Band Centre Frequency [Hz]						
63	125	250	500	1k	2k	4k
35	27	33	41	47	43	54

Table 9: Sound Insulation Indices for Acoustic Glazing

In summary it is considered that with appropriate glazing and ventilation, that the noise impact of nearby commercial uses and “people” noise from the street, should not bar the grant of residential planning consent for the development.

APPENDIX 1

EXPLANATION OF ACOUSTIC TERMS

The dB or the decibel, is the unit of noise. The number of decibels or the level, is measured using a sound level meter. It is common for the sound level meter to filter or 'weight' the incoming sound so as to mimic the frequency response of the human ear. Such measurements are designated **dB(A)**.

A doubling of the sound is perceived, by most people, when the level has increased by 10 dB(A). The least discernible difference is 2 dB(A). Thus most people cannot distinguish between, say 30 and 31 dB(A).

The Background level of noise is most commonly represented by the level which is exceeded for 90% of the time i.e. the LA90.

If a noise varies over time then the **equivalent continuous level, or LAeq**, is the notional constant level of noise which would contain the same amount of acoustic energy as the time varying noise.

The following table gives an approximate indication of the comparative loudness of various noises expressed in terms of the A weighted scale:

Source of noise	dB(A)	Nature of Noise
Inside Quiet bedroom at night	25-30	Very Quiet
Quiet office	40-45	
Rural background noise	35-45	
Normal conversational level	55-65	
Busy restaurant	65-75	
Inside suburban electric train	70-80	
Hand clap @ 1m	75-85	
HGV accelerating @ 5m away	85-90	Very Loud

APPENDIX 2

QUALIFICATIONS AND EXPERIENCE OF M.A. KENYON

My full name is Melville Alexander Kenyon. I am the principal of the firm of Martec Environmental Consultants Ltd, a consultancy company that specialises in environmental noise assessment and control. I graduated in 1982 with a Bachelor's degree in Engineering and subsequently a Master's degree in Environmental Acoustics. I have been a corporate member of the professional body for noise and vibration specialists, the Institute of Acoustics, since 1988, and have sat on the British Standards Committee dealing with noise in buildings [BS.8233:1999].

I have lectured at Liverpool John Moores University on the Diploma of Acoustics course and at Manchester Metropolitan University on their Environmental Health degree course.

The firm of Martec Environmental Engineering was formed in the 1970's and joined The Association of Noise Consultants in 1996. The company is now known as Martec Environmental Consultants Ltd.

Since its formation, Martec has advised many groups of both residents and developers about the problems of noise and vibration in the environment.

APPENDIX 3

REFERENCES

- 1 ProPG 24: Planning and Noise. – IoA, CIEH, ANC - June 2017
- 2 BS.8233:2014 “Guidance on Sound Insulation and noise reduction for buildings.”
- 3 Calculation of Road Traffic Noise (CRTN) – Department of Transport and the Welsh Office, HMSO,1988, ISBN 0-11-550847-3
- 4 Method for Converting the UK Road Traffic Noise Index $L_{A10,18h}$ to the EU Noise Indices for Road Noise Mapping – TRL/Cassella Stanger
http://www.defra.gov.uk/environment/quality/noise/research/crt_n/documents/noise-crt_n-update2006.pdf
- 5 BS EN 12354-3:2000 *Building Acoustics-Estimation of Acoustic Performance in buildings from the performance of elements. Part 3 Airborne Sound Insulation against Outdoor Sound.*
- 6 The Department of Transport “*Calculation of Railway Noise 1995*” - HMSO
- 7 BS4142:2014 “Methods for rating and assessing industrial and commercial sound”
- 8 “Design Manual for Roads and Bridges HD 213/11 Volume 11, Section 3, Part 7, Revision 1” - The Highways Agency November 2011.

APPENDIX 4

NOISE MEASUREMENT RESULTS

A4.1 Front Façade [dBA]

Date & time	Duration	Lmax	Lmin	Leq	L01	L10	L50	L90
06/04/2018 11:40:37	00:00:11	94.2	94.2	94.2	94.9	94.9	94.5	94.1
06/04/2018 12:15:44	00:15:00	87.8	60	69.5	77.5	70.6	68.8	62.7
06/04/2018 12:30:44	00:15:00	79.1	55.2	61.4	69.8	63.4	59.5	56.7
06/04/2018 12:45:44	00:15:00	79.5	54.7	60.8	70.9	61.4	58.2	56.3
06/04/2018 13:00:44	00:15:00	78.4	53.8	61.7	72.4	62.5	58.6	56.4
06/04/2018 13:15:44	00:15:00	72.5	53.8	58.2	65.4	59.8	57.1	55.3
06/04/2018 13:30:44	00:15:00	80.1	55.1	61.8	72.5	63.4	58.5	56.9
06/04/2018 13:45:44	00:15:00	74.2	54.1	59.6	67.9	60.8	58.1	55.8
06/04/2018 14:00:44	00:15:00	82.2	54.7	59.8	66.5	60.9	58.5	56.4
06/04/2018 14:15:44	00:15:00	81.1	54.9	61	70.6	62.7	58.6	56.8
06/04/2018 14:30:44	00:15:00	75.6	56.4	60.1	65.3	61.3	59.2	57.7
06/04/2018 14:45:44	00:15:00	84.7	55.3	67.5	81.9	66.2	59.4	57.2
06/04/2018 15:00:44	00:15:00	75.4	54.3	58.9	63.6	60	57.8	56
06/04/2018 15:15:44	00:15:00	79.6	54.9	61.3	69.8	62.4	59.1	57.3
06/04/2018 15:30:44	00:15:00	79	55.4	60.5	66.8	62.8	59.3	57.4
06/04/2018 15:45:44	00:15:00	77.6	55.9	62	68.2	64.4	60.8	58.3
06/04/2018 16:00:44	00:15:00	81.3	55.7	61.1	71	61.5	58.8	57.1
06/04/2018 16:15:44	00:15:00	80.8	56.1	61.9	71	63.4	59.1	57.4
06/04/2018 16:30:44	00:15:00	75.1	55.3	59.9	69.2	61	58.2	56.7
06/04/2018 16:45:44	00:15:00	72.2	55.2	59.7	68	61.6	58.2	56.7
06/04/2018 17:00:44	00:15:00	82.5	55.3	60.6	69.6	60.9	58.2	56.6
06/04/2018 17:15:44	00:15:00	76.2	55.1	59.7	69	60.8	57.9	56.3
06/04/2018 17:30:44	00:15:00	74.5	54.7	59.3	68.8	59.9	57.8	55.9
06/04/2018 17:45:44	00:15:00	80.6	54.7	59.3	66.9	59.9	57.7	56.1
06/04/2018 18:00:44	00:15:00	78.4	54.2	58.9	67.2	59.6	57.5	55.5
06/04/2018 18:15:44	00:15:00	79.1	55.1	60.6	69.9	61.4	58.3	56.5
06/04/2018 18:30:44	00:15:00	75.5	53.8	58.6	66.5	59.4	57.3	55.8
06/04/2018 18:45:44	00:15:00	87.5	54.1	62.3	72.3	61.2	57.6	55.5
06/04/2018 19:00:44	00:15:00	71.3	53.9	58	65	59.4	57.2	55.2
06/04/2018 19:15:44	00:15:00	70.6	54.1	58.3	65.3	59.8	57.4	55.6
06/04/2018 19:30:44	00:15:00	71.2	54.4	58.5	65.9	59.8	57.7	55.8
06/04/2018 19:45:44	00:15:00	72.5	55	58.5	65.5	59.9	57.6	56
06/04/2018 20:00:44	00:15:00	72.5	54.3	59.2	67.8	60.4	57.9	56.1
06/04/2018 20:15:44	00:15:00	71.2	54.6	59.3	67.9	60.8	57.8	56.1
06/04/2018 20:30:44	00:15:00	75.4	56.1	59.1	66.5	60.4	57.9	57
06/04/2018 20:45:44	00:15:00	92.2	53.6	65.4	75	62.8	57.8	55.5
06/04/2018 21:00:44	00:15:00	80.9	53.9	59.4	67.4	61.6	57.6	55.3
06/04/2018 21:15:44	00:15:00	73.4	54.4	58.5	67.5	59.2	56.7	55.3
06/04/2018 21:30:44	00:15:00	72.1	54.5	58.6	65.8	60.3	57.4	55.6

06/04/2018 21:45:44	00:15:00	77.2	55	59.8	68.1	61.9	57.7	56.2
06/04/2018 22:00:44	00:15:00	72.8	55.1	60.9	68	62.9	60.2	56.5
06/04/2018 22:15:44	00:15:00	83.7	55.3	60.9	68.8	61.9	58.6	56.4
06/04/2018 22:30:44	00:15:00	70.2	55.2	59.7	67	61.5	58.7	57.2
06/04/2018 22:45:44	00:15:00	76.3	56.4	60.5	66.6	61.8	59.5	58.1
06/04/2018 23:00:44	00:15:00	76.2	57.6	62	70.3	63.7	60.7	59.2
06/04/2018 23:15:44	00:15:00	87.4	58.5	70.1	83.7	69.9	61.9	60
06/04/2018 23:30:44	00:15:00	87	57	64.4	71.3	64.7	61.9	60.1
06/04/2018 23:45:44	00:15:00	79.9	58.7	63.4	70.7	64.9	62.2	60.4
07/04/2018 00:00:44	00:15:00	87.6	57.4	64.7	73.5	65.5	61.7	59.5
07/04/2018 00:15:44	00:15:00	85.8	57.6	64	72.4	65.5	62.2	60.3
07/04/2018 00:30:44	00:15:00	78.7	58.8	64.7	71.5	66.7	63.5	61.3
07/04/2018 00:45:44	00:15:00	89.7	59.5	66	71.5	67.2	64.2	62
07/04/2018 01:00:44	00:15:00	82.6	58.3	64.4	71.1	66.7	62.9	60.7
07/04/2018 01:15:44	00:15:00	73.1	57.3	63.7	69.6	65.9	62.8	60.5
07/04/2018 01:30:44	00:15:00	87.2	57.3	66.3	75.3	69	63.3	59.8
07/04/2018 01:45:44	00:15:00	89.8	59.1	66.6	74.9	68.5	64.5	61.8
07/04/2018 02:00:44	00:15:00	83.8	58.5	65.5	72.5	67.6	64	61.5
07/04/2018 02:15:44	00:15:00	83.5	58.4	64.5	71.3	66.7	63.2	61
07/04/2018 02:30:44	00:15:00	81.8	58.6	64.7	72.1	66.9	63.1	60.5
07/04/2018 02:45:44	00:15:00	79.3	56.6	63.9	72	66.1	62.2	59.6
07/04/2018 03:00:44	00:15:00	85.7	57.6	65.9	76.6	67.1	62.6	60
07/04/2018 03:15:44	00:15:00	88.1	56.7	64.6	71.9	66.6	62.3	59.6
07/04/2018 03:30:44	00:15:00	78.8	57.6	64.3	70.9	66.5	63.1	60.5
07/04/2018 03:45:44	00:15:00	84.4	57.2	66.9	76.8	69.3	63.8	60.2
07/04/2018 04:00:44	00:15:00	84.3	54.8	63.3	72.1	65.6	60.9	57.8
07/04/2018 04:15:44	00:15:00	88.4	55.1	69.9	82.6	72	60.6	57.1
07/04/2018 04:30:44	00:15:00	88.4	54.1	64	73	66.4	59	56.3
07/04/2018 04:45:44	00:15:00	86.6	53.2	63.7	72.9	66.5	58.3	55.4
07/04/2018 05:00:44	00:15:00	73.7	52.7	59.2	68.7	61.8	56.5	54.3
07/04/2018 05:15:44	00:15:00	89.8	52.6	63.2	72.8	64.2	57.5	54.4
07/04/2018 05:30:44	00:15:00	73.1	51.4	59.5	69.4	62.2	56.5	53.4
07/04/2018 05:45:44	00:15:00	74.6	52.9	59.7	68.9	62.5	57.1	54.6
07/04/2018 06:00:44	00:15:00	70.6	52	58.1	67.5	60.4	56	53.3
07/04/2018 06:15:44	00:15:00	77.8	51.4	59.4	69	62.6	55.6	53.1
07/04/2018 06:30:44	00:15:00	73.8	52.1	58.7	68.2	61.2	56.4	53.4
07/04/2018 06:45:44	00:15:00	71.3	49.4	55.5	64.6	56.8	53.8	51.2
07/04/2018 07:00:44	00:15:00	80.5	49.9	56.6	64.6	57.3	54.6	51.7
07/04/2018 07:15:44	00:15:00	74.4	49.7	56.2	65.2	57.4	53.5	51.2
07/04/2018 07:30:44	00:15:00	70.7	51.1	57	63.7	59.1	56.1	52.4
07/04/2018 07:45:44	00:15:00	79.5	51.3	60.6	73.7	59.9	55.7	53.3
07/04/2018 08:00:44	00:15:00	92.3	50.7	63	71.9	60.8	59.2	53.5
07/04/2018 08:15:44	00:15:00	73.2	51.1	56.6	62	58.7	55.9	52.8
07/04/2018 08:30:44	00:15:00	72.5	51.9	57.5	66.5	59	55.8	53.4
07/04/2018 08:45:44	00:15:00	83.9	51.3	59.1	66.8	59.3	55.6	53.2
07/04/2018 09:00:44	00:15:00	72.3	51.7	56.6	63	58.3	55.7	53.2

07/04/2018 09:15:44	00:15:00	78.9	51.2	57.8	65.6	59.2	56.2	53.3
07/04/2018 09:30:44	00:15:00	102.2	50.9	68.7	73	61.6	57.2	54.1
07/04/2018 09:45:44	00:15:00	77.2	51.8	57.9	65.9	59.2	56	53.4
07/04/2018 10:00:44	00:15:00	90.6	52	73.3	86.7	74.2	57.7	55.2
07/04/2018 10:15:44	00:15:00	92.3	51.5	71.8	86.4	66.3	57.7	54.2
07/04/2018 10:30:44	00:15:00	77	53.2	60.5	71.2	61.8	57.6	55.3
07/04/2018 10:45:44	00:15:00	77.5	52.2	59.8	69.8	61.3	56.8	54.3
07/04/2018 11:00:44	00:15:00	72.6	53.3	58.7	68.8	60.1	56.6	54.5
07/04/2018 11:15:44	00:15:00	74.1	53.1	60	69.7	61.7	57.9	55.6
07/04/2018 11:30:44	00:15:00	78.7	53.4	58.7	66.1	59.9	57.7	56
07/04/2018 11:45:44	00:15:00	81.8	51.9	60.1	71.1	60.3	56.9	53.9
07/04/2018 12:15:44	00:15:00	77.4	52.6	58.2	63.6	59.9	57.5	55
07/04/2018 12:30:44	00:15:00	74.5	54.7	60	68.4	61.8	58.5	56.6
07/04/2018 12:45:44	00:15:00	75.7	54.5	62.1	69.9	67.4	58.9	56.6
07/04/2018 13:00:44	00:15:00	79.7	54.2	63.5	72.5	68.5	57.7	55.6
07/04/2018 13:15:44	00:15:00	79.5	52.9	58.8	67.3	59.9	56.9	54.8
07/04/2018 13:30:44	00:15:00	75	52.9	57.8	63.5	59.1	56.8	54.8
07/04/2018 13:45:44	00:15:00	78.8	53.6	60.1	70.5	60.4	57.5	55.6
07/04/2018 14:00:44	00:15:00	84.5	53	66.2	82.1	61.3	57.3	55.3
07/04/2018 14:15:44	00:15:00	76.2	52.5	57.8	64.2	59.2	56.7	54.3
07/04/2018 14:30:44	00:15:00	81.2	52.6	63.4	72.8	67.2	59.4	56.1
07/04/2018 14:45:44	00:15:00	81.3	52.8	59.5	70.3	59.3	56.1	54.2
07/04/2018 15:00:44	00:15:00	81.9	51.5	60.4	71.6	60.7	56.6	53.3
07/04/2018 15:15:44	00:15:00	82.9	51.9	59.4	70.4	60.4	55.9	53.7
07/04/2018 15:30:44	00:15:00	78.2	52.1	58.5	66.6	59.7	56.9	54.5
07/04/2018 15:45:44	00:15:00	71.2	53.8	58.4	65	60.1	57.4	55.6
07/04/2018 16:00:44	00:15:00	80.7	54.5	59.2	66.6	59.7	57.6	56
07/04/2018 16:15:44	00:15:00	77	54.7	60.6	70.6	61.6	58.3	56.3
07/04/2018 16:30:44	00:15:00	71.8	54.3	59.5	68.1	61.3	58	56.1
07/04/2018 16:45:44	00:15:00	88.5	54.5	63.6	72.7	63.8	58.5	56.2
07/04/2018 17:00:44	00:15:00	79.7	53.8	59.2	68.5	60.6	57.3	55.5
07/04/2018 17:15:44	00:15:00	76.3	53.9	61.5	74	60.9	57.3	55.4
07/04/2018 17:30:44	00:15:00	80.9	54.7	61	70	62.9	58.7	57
07/04/2018 17:45:44	00:15:00	75.1	54.5	60.2	69.8	62	58.2	56.2
07/04/2018 18:00:44	00:15:00	72.4	54.2	58.8	67.7	60.3	57.5	55.5
07/04/2018 18:15:44	00:15:00	74.4	53.6	58.2	65.5	59.7	57.1	55.1
07/04/2018 18:30:44	00:15:00	72.4	56.1	59.2	65.3	60.4	58.5	57.1
07/04/2018 18:45:44	00:15:00	77.8	55.9	61	70.1	63	58.7	57.2
07/04/2018 19:00:44	00:15:00	78.5	54.2	62.6	72.7	65.1	59.1	57.1
07/04/2018 19:15:44	00:15:00	73.5	54	59.7	68.4	62.1	57.6	55.4
07/04/2018 19:30:44	00:15:00	77.8	54.2	59.9	68.8	62.6	57.2	55.4
07/04/2018 19:45:44	00:15:00	78.9	54.2	61.6	71.6	64	58.4	55.9
07/04/2018 20:00:44	00:15:00	78.8	54.3	58.9	68.9	59.8	56.9	55.3
07/04/2018 20:15:44	00:15:00	90.3	54.9	66.6	79.2	66.6	58.4	56.6
07/04/2018 20:30:44	00:15:00	77.4	54.6	61.3	71	64.3	57.7	55.6
07/04/2018 20:45:44	00:15:00	73	55	58.9	66	60.7	57.9	56.2

07/04/2018 21:00:44	00:15:00	73.5	55.4	59.4	68.7	60.8	57.7	56.3
07/04/2018 21:15:44	00:15:00	72.1	55.7	60	67.8	61.6	58.8	57.2
07/04/2018 21:30:44	00:15:00	86.5	55.5	63.8	76.2	64.2	58.6	56.7
07/04/2018 21:45:44	00:15:00	73.4	55.7	59.5	65.9	60.7	58.8	57.3
07/04/2018 22:00:44	00:15:00	79.4	55.8	60.7	67.8	62.4	59.3	57.8
07/04/2018 22:15:44	00:15:00	74.4	58	61.3	67.8	62.8	60.3	59.1
07/04/2018 22:30:44	00:15:00	82.4	58.8	63.7	72.5	64.5	61.5	60.2
07/04/2018 22:45:44	00:15:00	74.8	57	61.5	68.6	63.1	60.4	59
07/04/2018 23:00:44	00:15:00	77.8	57.1	62.9	70.8	65	61.3	59.3
07/04/2018 23:15:44	00:15:00	82.1	57.5	62.8	70.8	64.5	61.4	59.4
07/04/2018 23:30:44	00:15:00	79.1	59.1	64.7	72.3	66.8	63.3	61.4
07/04/2018 23:45:44	00:15:00	87.4	60.3	67.6	77.8	68.8	64.4	62.3
08/04/2018 00:00:44	00:15:00	88.5	59.8	69.4	79.2	72.2	65.1	62
08/04/2018 00:15:44	00:15:00	81.4	59.8	65.1	71.2	66.9	64	62.1
08/04/2018 00:30:44	00:15:00	92.7	59.2	68.4	76.2	69.5	65.4	62.7
08/04/2018 00:45:44	00:15:00	85.4	60.1	68.2	77.8	70.7	65	62.5
08/04/2018 01:00:44	00:15:00	79.3	61.2	65.9	72.2	68.2	64.8	62.8
08/04/2018 01:15:44	00:15:00	78.4	60.6	65.9	72.2	67.9	64.9	62.8
08/04/2018 01:30:44	00:15:00	93.9	59.7	69.7	79.1	69.9	64.8	62.4
08/04/2018 01:45:44	00:15:00	100.2	60.3	76.3	88.7	74.1	65.9	63
08/04/2018 02:00:44	00:15:00	82	59.4	66.6	74.9	68.9	64.8	62.2
08/04/2018 02:15:44	00:15:00	91.2	58.8	65.5	71.9	67.4	63.9	61.5
08/04/2018 02:30:44	00:15:00	82.3	59.4	66.5	74.9	68.9	64.4	61.8
08/04/2018 02:45:44	00:15:00	83.4	59	66.4	75.8	68.3	63.9	61.5
08/04/2018 03:00:44	00:15:00	82.2	59.5	66.9	76.4	69.3	64.4	61.8
08/04/2018 03:15:44	00:15:00	88.6	58	66.4	74.7	68.6	64.2	61.2
08/04/2018 03:30:44	00:15:00	82	58.1	64.4	71.4	66.5	63.1	60.7
08/04/2018 03:45:44	00:15:00	83.3	58.3	65	72.1	67	63.4	60.9
08/04/2018 04:00:44	00:15:00	78.2	57.8	64.3	71.5	66.7	62.8	60.1
08/04/2018 04:15:44	00:15:00	83.9	57.2	67.9	77.7	70.9	64.7	60.8
08/04/2018 04:30:44	00:15:00	80.8	56.9	64.2	72.1	67.3	61.9	58.7
08/04/2018 04:45:44	00:15:00	83.2	55.7	65.6	76.6	68.1	61.1	58.2
08/04/2018 05:00:44	00:15:00	83.5	52.7	63.5	73.6	66.6	59.5	55.9
08/04/2018 05:15:44	00:15:00	93.6	52.1	66.5	76.7	67.1	57.8	54.4
08/04/2018 05:30:44	00:15:00	77.7	52.2	60.5	69.2	63.8	57.4	54.2
08/04/2018 05:45:44	00:15:00	75.1	51.8	59.4	70.5	62.1	55.6	53.2
08/04/2018 06:00:44	00:15:00	73.4	52.2	58.7	68.6	61	56.2	53.8
08/04/2018 06:15:44	00:15:00	74.9	51.6	59.9	70.1	63.2	56.5	53.8
08/04/2018 06:30:44	00:15:00	72.6	50.6	57	66.8	58.6	55	52.1
08/04/2018 06:45:44	00:15:00	88.3	50.3	61.4	71.2	63.6	55.2	52.2
08/04/2018 07:00:44	00:15:00	75.8	50.2	56.9	65.8	58.9	54.3	51.8
08/04/2018 07:15:44	00:15:00	83.9	50.7	66.1	81.3	65.6	56.3	52.5
08/04/2018 07:30:44	00:15:00	83.7	51.9	65.2	79.3	66.9	57.3	54
08/04/2018 07:45:44	00:15:00	76.8	50.9	57.3	67.6	58.1	55.2	52.4
08/04/2018 08:00:44	00:15:00	75.6	50.1	58.8	70.7	59.4	55.1	51.7
08/04/2018 08:15:44	00:15:00	73.7	49	55.5	64.3	57.1	53.3	50.2

08/04/2018 08:30:44	00:15:00	74	49.7	55.9	66.8	56.5	52.8	50.7
08/04/2018 08:45:44	00:15:00	73.7	49.9	55.4	64.7	56.5	52.6	51
08/04/2018 09:00:44	00:15:00	74.7	50.4	56.4	66.5	57.5	54.6	51.6
08/04/2018 09:15:44	00:15:00	75.9	50.7	57.7	68.7	58.8	54.5	52
08/04/2018 09:30:44	00:15:00	102.4	50.6	71	73.7	62.7	55.8	52.3
08/04/2018 09:45:44	00:15:00	74.7	50.7	56.7	66.3	57.9	54.5	52
08/04/2018 10:00:44	00:15:00	79	49.8	58.1	68.6	58.5	55.1	51.6
08/04/2018 10:15:44	00:15:00	85.8	49.7	65.6	80.2	64.1	55.5	51.4
08/04/2018 10:30:44	00:15:00	72	50.3	55.3	64.4	56.5	53.2	51.4
08/04/2018 10:45:44	00:15:00	75	50.9	56.3	64.2	57.2	54.9	52.3
08/04/2018 11:00:44	00:15:00	77.1	50.5	56.9	65.6	58.4	54.9	52.3
08/04/2018 11:15:44	00:15:00	79.2	51.4	57.2	66	58.9	54.2	52.4
08/04/2018 11:30:44	00:15:00	73.7	51.4	57.3	66.7	58.1	55.6	53.3
08/04/2018 11:45:44	00:15:00	73.5	51	56.5	65.1	57.8	55.1	52.5
08/04/2018 12:15:44	00:15:00	71.9	51.1	56.6	65.1	58	55.3	53
08/04/2018 12:30:44	00:15:00	68.8	51.2	56.3	61.8	57.9	55.8	53.2
08/04/2018 12:45:44	00:15:00	73.1	50.3	57	66.3	58.9	54.7	52.1
08/04/2018 13:00:44	00:15:00	84.7	49.8	58.8	67.5	57.9	54.3	51.9
08/04/2018 13:15:44	00:15:00	72.8	50.9	56	61.5	57.5	55.1	52.4
08/04/2018 13:30:44	00:15:00	66.1	50.3	55.8	62.8	58.1	54.6	52.3
08/04/2018 13:45:44	00:15:00	68.1	50.6	54.9	60.5	56.7	54	51.9
08/04/2018 14:00:44	00:15:00	69	50.5	56.2	64.1	58	55.3	52.2
08/04/2018 14:15:44	00:15:00	72.5	50.8	56.5	65.1	57.6	55.4	52.5
08/04/2018 14:30:44	00:15:00	87.3	51.1	65.3	78.6	65.4	55.4	52.5
08/04/2018 14:45:44	00:15:00	76.7	51.3	58.6	68.9	59.6	56.6	53.3
08/04/2018 15:00:44	00:15:00	77	51.7	56.6	61.8	58.3	55.8	53.5
08/04/2018 15:15:44	00:15:00	76.2	54	58.2	66.4	59.1	57.1	55.2
08/04/2018 15:30:44	00:15:00	73.8	54.1	58.7	67.8	59.8	56.9	55.3
08/04/2018 15:45:44	00:15:00	72.4	53.1	56.7	62.7	58.2	55.8	54.3
08/04/2018 16:00:44	00:15:00	89.1	53.5	58.3	61.4	58.4	56.5	54.8
08/04/2018 16:15:44	00:15:00	72.3	54.3	58.4	64.2	59.7	57.7	55.9
08/04/2018 16:30:44	00:15:00	70.8	53.7	58.1	64.7	59.6	57.4	55.3
08/04/2018 16:45:44	00:15:00	68.8	54.5	57.7	64.4	58.9	57.1	55.5
08/04/2018 17:00:44	00:15:00	70.1	54.3	58	65.2	59.2	57.2	55.3
08/04/2018 17:15:44	00:15:00	69.8	53.7	57.5	63.8	59	56.8	55.2
08/04/2018 17:30:44	00:15:00	80	53.7	58.8	66.3	60.5	57.3	55.5
08/04/2018 17:45:44	00:15:00	71.7	54.3	58.9	65.1	60.5	58.1	56.4
08/04/2018 18:00:44	00:15:00	68.9	54.1	58.6	63.6	60.4	58.2	56
08/04/2018 18:15:44	00:15:00	77.4	54.3	59.2	66.1	61	57.9	56
08/04/2018 18:30:44	00:15:00	74.8	54.5	59.5	66.6	61.2	58.4	56.2
08/04/2018 18:45:44	00:15:00	81.1	54.5	60	68.8	60.4	57.7	55.9
08/04/2018 19:00:44	00:15:00	73.7	54.5	59.2	66.8	60.7	58	56.5
08/04/2018 19:15:44	00:15:00	72.4	54.8	59.2	66.2	60.6	58.4	56.4
08/04/2018 19:30:44	00:15:00	89	54.4	62.4	70.3	61.6	58.4	56.4
08/04/2018 19:45:44	00:15:00	72.9	54.6	60.4	67.6	62.8	59	57
08/04/2018 20:00:44	00:15:00	73.4	53.9	60	68.9	61.6	58.4	56.1

08/04/2018 20:15:44	00:15:00	73.6	55	60	66.8	61.6	58.9	57.1
08/04/2018 20:30:44	00:15:00	86.3	54.2	62.7	72.9	63.1	58.4	56.2
08/04/2018 20:45:44	00:15:00	79.7	56	60.5	67.3	61.7	59	57.3
08/04/2018 21:00:44	00:15:00	78.3	55.1	60.9	69.5	62.1	59.2	57.1
08/04/2018 21:15:44	00:15:00	77.7	56.6	59.7	64.8	61.3	58.9	57.4
08/04/2018 21:30:44	00:15:00	72.9	54.1	59.2	66.6	60.6	58.2	56.3
08/04/2018 21:45:44	00:15:00	87.6	54.9	62.7	72.1	62.7	58.6	57.1
08/04/2018 22:00:44	00:15:00	74.7	54.6	59.1	67.4	60.7	57.8	56
08/04/2018 22:15:44	00:15:00	84.9	54.4	60.4	68.3	60.6	57.8	56.2
08/04/2018 22:30:44	00:15:00	72.1	54.9	58.9	67.6	59.9	57.7	56.2
08/04/2018 22:45:44	00:15:00	71.5	54.6	58.1	65.6	59.1	57	55.5
08/04/2018 23:00:44	00:15:00	75.6	54.4	59.3	68.1	60.8	57.8	56.2
08/04/2018 23:15:44	00:15:00	71.8	55	59.4	64.8	61	58.8	57
08/04/2018 23:30:44	00:15:00	75.5	55.1	60.3	68.6	61.9	58.8	57
08/04/2018 23:45:44	00:15:00	72.3	53.2	60	68	61.9	58.7	56.5
09/04/2018 00:00:44	00:15:00	71.7	52.1	58.5	64.9	60.4	57.5	55.3
09/04/2018 00:15:44	00:15:00	68.9	51.7	57.6	65.2	59.2	56.6	54.3
09/04/2018 00:30:44	00:15:00	81.3	51.4	58.1	67.8	59	55.7	53.1
09/04/2018 00:45:44	00:15:00	71	51.3	57.9	67.5	59.7	56.1	53.4
09/04/2018 01:00:44	00:15:00	75	51.3	58.1	66.9	60.3	55.9	53.4
09/04/2018 01:15:44	00:15:00	74.1	51.9	58.3	67.6	60	56.2	53.5
09/04/2018 01:30:44	00:15:00	83.9	51.7	58.7	67.5	58.9	56.5	54.2
09/04/2018 01:45:44	00:15:00	78.6	51.8	58.3	66.9	59.8	56.7	54.4
09/04/2018 02:00:44	00:15:00	80.4	51	58.7	68.6	60.7	55.8	53.1
09/04/2018 02:15:44	00:15:00	71.2	51.3	57	64.6	58.8	55.9	53.2
09/04/2018 02:30:44	00:15:00	74.7	51.6	58	66.6	60.4	55.9	53.2
09/04/2018 02:45:44	00:15:00	85.1	52.4	60.1	69.3	61.7	56.3	54.3
09/04/2018 03:00:44	00:15:00	76	51.1	57	65.5	58.8	55.5	52.5
09/04/2018 03:15:44	00:15:00	72.9	50.9	57.3	68.4	58.3	54.7	52.3
09/04/2018 03:30:44	00:15:00	71.6	50.1	57	68.2	57.6	54.1	51.3
09/04/2018 03:45:44	00:15:00	73	50.2	56.2	65.1	57.8	54.4	51.5
09/04/2018 04:00:44	00:15:00	74.9	49.7	56.2	66.6	57.9	52.8	50.9
09/04/2018 04:15:44	00:15:00	77.4	49.6	57.4	67.5	58.6	54.9	50.8
09/04/2018 04:30:44	00:15:00	83.6	49.8	59.1	70.1	59.2	53.2	51.2
09/04/2018 04:45:44	00:15:00	75.9	50.9	57.2	69.7	56.5	54.5	52
09/04/2018 05:00:44	00:15:00	73.3	49.9	56	63.3	57.9	54.7	52.4
09/04/2018 05:15:44	00:15:00	74.5	51.1	58.4	67.1	61	55.9	53.2
09/04/2018 05:30:44	00:15:00	75.5	49.3	56.3	67.8	57.4	51.7	50.2
09/04/2018 05:45:44	00:15:00	71.1	49.9	55.3	64.1	57.2	53.2	51.1
09/04/2018 06:00:44	00:15:00	78.2	49.9	57.4	65.6	58.2	54.6	51.4
09/04/2018 06:15:44	00:15:00	74.8	50	56.7	68.9	56.6	52.8	51.2
09/04/2018 06:30:44	00:15:00	92.3	51.4	72.8	87.3	70.4	58.4	54.9
09/04/2018 06:45:44	00:15:00	78.7	50.7	57.6	68.4	58.5	54.1	52.1
09/04/2018 07:00:44	00:15:00	68.7	50.3	55.6	61.8	57.7	54.9	51.6
09/04/2018 07:15:44	00:15:00	103.8	50.5	72.8	71.1	60.8	54.9	52.5
09/04/2018 07:30:44	00:15:00	78	51.7	58.7	68.7	58.9	56.4	53.9

09/04/2018 07:45:44	00:15:00	88.4	51.8	65.4	76.4	66.3	60.5	55.3
09/04/2018 08:00:44	00:15:00	73.1	52.8	59.4	68.7	61.6	57.1	54.7
09/04/2018 08:15:44	00:15:00	79.4	52.8	57.8	64	59.5	56.7	54.6
09/04/2018 08:30:44	00:15:00	71.2	53	58.6	67.6	60.6	56.7	54.8
09/04/2018 08:45:44	00:15:00	84.1	52.8	59.9	68.6	59.7	57.2	54.8
09/04/2018 09:00:44	00:15:00	79.4	52.6	60.6	72.3	59.8	56.9	54.3
09/04/2018 09:15:44	00:15:00	77.9	52.8	58.7	69.1	59.5	56.7	54.5
09/04/2018 09:30:44	00:15:00	74.5	54	58.6	65.8	60.4	57.3	55.5
09/04/2018 09:45:44	00:15:00	76.9	53.5	60	70	61.1	57.5	55.5
09/04/2018 10:00:44	00:15:00	81.6	53.3	61.5	71.8	61.9	57.9	55.6
09/04/2018 10:15:44	00:15:00	74.4	52.5	57.9	66.4	59.4	56.4	54.5
09/04/2018 10:30:44	00:15:00	77.8	53.4	60.6	72.2	61.6	57.5	55.3
09/04/2018 10:45:44	00:15:00	77	52	58.1	68	59.5	56.2	53.7
09/04/2018 11:00:44	00:15:00	74.4	52.6	57.9	65.6	58.8	56.7	55
09/04/2018 11:15:44	00:15:00	71.7	52	57.3	65.7	58.7	55.9	53.5
09/04/2018 11:30:44	00:15:00	80.4	53.1	63	73.4	65.4	57.6	55.3
09/04/2018 11:45:44	00:15:00	77.1	52	58.2	66.1	60.1	56.1	54
09/04/2018 12:15:44	00:15:00	75.7	53.3	64.8	71.9	67.8	63.5	57.3
09/04/2018 12:30:44	00:15:00	74.6	53	57.6	65.3	59.1	56.3	54.5
09/04/2018 12:45:44	00:15:00	73.6	52.9	58.7	67.2	60.4	57.2	55.1
09/04/2018 13:00:44	00:15:00	67.2	52.1	56.6	63.9	58.3	55.6	53.7
09/04/2018 13:15:44	00:15:00	81.4	52.3	58.8	67.1	59.6	57	54.5
09/04/2018 13:30:44	00:15:00	72.9	52.1	58.1	64.4	59.9	57.3	55
09/04/2018 13:45:44	00:15:00	82.3	52.5	61.2	71.7	62.6	56.5	54.2
09/04/2018 14:00:44	00:15:00	73.3	54.1	59.4	68	60.8	57.9	56.2
09/04/2018 14:15:44	00:15:00	80.3	53.9	64.6	72.9	70.7	58.2	55.8
09/04/2018 14:30:44	00:15:00	75.8	55.8	62.9	71.9	67.1	59	57.5
09/04/2018 14:45:44	00:15:00	83.8	53.6	68.7	81.9	69.9	58.4	55.6
09/04/2018 15:00:44	00:15:00	84.2	54.1	66	80.1	66.5	58.3	56.1
09/04/2018 15:15:44	00:15:00	75.7	52.4	58.5	68.2	59.7	56.5	54.1
09/04/2018 15:30:44	00:15:00	85.5	53.3	69	82.2	69.7	58.5	55.6
09/04/2018 15:45:44	00:15:00	81.2	54	60.4	69.5	60	57.4	56.1
09/04/2018 16:00:44	00:15:00	74.7	54	59.7	69.1	60.9	58.1	56.2
09/04/2018 16:15:44	00:15:00	84.4	55.8	61.9	71.8	62.7	58.9	57.4
09/04/2018 16:30:44	00:15:00	72.1	53.3	58.8	66.7	60	57.8	55.6
09/04/2018 16:45:44	00:15:00	70.6	53.8	57.9	65.6	58.9	57	55.5
09/04/2018 17:00:44	00:15:00	69.5	54.8	58.5	65.8	59.8	57.6	56.2
09/04/2018 17:15:44	00:15:00	76	54.6	59.5	67.4	60.4	58.1	56.7
09/04/2018 17:30:44	00:15:00	76.1	54.9	60.1	70	61.7	57.8	56.2
09/04/2018 17:45:44	00:15:00	99.2	55.1	71.2	77.1	62.4	57.8	56.3
09/04/2018 18:00:44	00:15:00	78.4	54.9	59.9	68.6	61.6	58	56.2
09/04/2018 18:15:44	00:15:00	75.8	55.1	59.4	67.7	60.9	57.4	56.1
09/04/2018 18:30:44	00:15:00	76.5	54.9	59.5	68.6	59.9	57.8	56.3
09/04/2018 18:45:44	00:15:00	81.9	54.6	61.2	71.9	61.2	57.8	56.1
09/04/2018 19:00:44	00:15:00	76.2	54.6	59.1	67.7	60	57.6	55.8
09/04/2018 19:15:44	00:15:00	70.1	54.7	58.3	66.4	59.7	57.1	55.6

09/04/2018 19:30:44	00:15:00	75.6	54.3	58.5	65.8	59.2	57.4	55.5
09/04/2018 19:45:44	00:15:00	71	54.6	58.3	65.8	59.5	57.3	56
09/04/2018 20:00:44	00:15:00	76.5	55.1	59	67.3	59.8	57.6	56.1
09/04/2018 20:15:44	00:15:00	75.6	55.1	59.4	68.2	60.5	58.1	56.2
09/04/2018 20:30:44	00:15:00	78.1	54.7	59.1	66.4	60.8	57.7	56
09/04/2018 20:45:44	00:15:00	76.3	54.8	60.1	70.2	60.9	58	56.1
09/04/2018 21:00:44	00:15:00	74.4	55	60.4	69.6	62.4	58.3	56.5
09/04/2018 21:15:44	00:15:00	73.9	55	58.7	66.5	59.7	57.6	56.2
09/04/2018 21:30:44	00:15:00	87.8	54.6	62.9	73	61	57.5	55.9
09/04/2018 21:45:44	00:15:00	70.2	54.4	57.9	64.9	59.7	56.8	55.3
09/04/2018 22:00:44	00:15:00	76.6	54.1	59.6	69.2	60.2	57.8	56.2
09/04/2018 22:15:44	00:15:00	69.7	55.3	58.6	66.3	59.9	57.7	56.2
09/04/2018 22:30:44	00:15:00	73.9	54.7	58.8	65.9	60	57.9	56.3
09/04/2018 22:45:44	00:15:00	75.5	54.7	58.9	68	59.8	57.5	56.1
09/04/2018 23:00:44	00:15:00	73.1	54.2	59.8	68.9	60.4	58.3	56.8
09/04/2018 23:15:44	00:15:00	69.1	54.8	58.9	64.7	60.5	58.3	56.3
09/04/2018 23:30:44	00:15:00	74.6	54.9	59.5	69	60.5	57.4	56
09/04/2018 23:45:44	00:15:00	74.5	55.4	60.8	70.6	62.7	58.5	57
10/04/2018 00:00:44	00:15:00	75.9	54.9	60.3	69.6	62.3	57.7	56.1
10/04/2018 00:15:44	00:15:00	82	54.4	61.4	71.6	62.3	58.8	56.8
10/04/2018 00:30:44	00:15:00	83.6	54.3	62.3	73.3	64.1	57.7	55.6
10/04/2018 00:45:44	00:15:00	71.7	54.4	58.7	66.4	60	57.6	55.8
10/04/2018 01:00:44	00:15:00	70.7	53.9	58.3	64	60.5	57.5	55.3
10/04/2018 01:15:44	00:15:00	83.5	54.3	60.9	70.5	60.8	57.7	56.2
10/04/2018 01:30:44	00:15:00	71.7	54.3	58.1	67.2	58.9	56.9	55.3
10/04/2018 01:45:44	00:15:00	79.5	53.2	58.5	65.3	58.6	56.7	55.3
10/04/2018 02:00:44	00:15:00	77.8	51.1	56.3	65.3	57.7	54.7	52.2
10/04/2018 02:15:44	00:15:00	75.3	51.1	57	68	57.3	54	52.1
10/04/2018 02:30:44	00:15:00	72.6	54.2	57.3	65.6	57.8	56.2	55.1
10/04/2018 02:45:44	00:15:00	74.9	51.4	56.9	66.8	59	53.8	52.2
10/04/2018 03:00:44	00:15:00	68.3	52	57.2	63.8	58.5	56.4	55.2
10/04/2018 03:15:44	00:15:00	75.4	51.7	58.3	68.6	60.7	54.9	53
10/04/2018 03:30:44	00:15:00	75.2	51	57.3	67.7	58.8	55	52.2
10/04/2018 03:45:44	00:15:00	70.2	51.3	57.6	67.3	59.3	56	52.9
10/04/2018 04:00:44	00:15:00	84.2	52.1	64.8	78.6	64.1	56.9	54.3
10/04/2018 04:15:44	00:15:00	85.9	51.2	64.8	79.2	61.4	53.4	52.1
10/04/2018 04:30:44	00:15:00	88.4	52.1	66.9	80.9	62	56.5	53.6
10/04/2018 04:45:44	00:15:00	71.2	50.5	55.4	61.3	57	55	51.5
10/04/2018 05:00:44	00:15:00	67.3	50.5	54.7	61.3	56.9	53	51.3
10/04/2018 05:15:44	00:15:00	71.4	50.3	55.4	60.5	56.9	55.4	51.4
10/04/2018 05:30:44	00:15:00	70.6	50.5	55.2	63.3	56.7	53.7	51.5
10/04/2018 05:45:44	00:15:00	65.5	50.2	54	59.9	56.1	52.7	51.1
10/04/2018 06:00:44	00:15:00	71.8	50.2	54.8	64.6	55.8	52.6	51.2
10/04/2018 06:15:44	00:15:00	92.8	51	70.3	84.8	64	56.7	53.1
10/04/2018 06:30:44	00:15:00	76.8	52.5	58	69.1	59.1	54.9	53.3
10/04/2018 06:45:44	00:15:00	75.9	52.4	56.9	63	58.5	55.7	53.6

10/04/2018 07:00:44	00:15:00	77.9	52.9	58.3	66.8	59.9	56.7	54.6
10/04/2018 07:15:44	00:15:00	78.7	53.9	59.7	70.1	59.9	57.3	55.4
10/04/2018 07:30:44	00:15:00	101.4	53.4	69.3	75	63.1	58.3	55.3
10/04/2018 07:45:44	00:15:00	80.8	55.6	62.2	73.5	62.9	59.1	57
10/04/2018 08:00:44	00:15:00	84.7	53.3	67.2	72.9	71.2	61	56.4
10/04/2018 08:15:44	00:15:00	72	52.7	59.7	67.9	61.5	58.4	55.5
10/04/2018 08:30:44	00:15:00	75.1	55.6	62.4	67.4	65.2	60.9	59.2
10/04/2018 08:45:44	00:15:00	84.5	55.4	67.5	75.1	70.7	63.8	57.5
10/04/2018 09:00:44	00:15:00	79.3	58	68.1	73.2	71.7	66.7	64.3
10/04/2018 09:15:44	00:15:00	81.4	57.8	65.9	70.6	66.7	65.3	63.3
10/04/2018 09:30:44	00:15:00	76.3	60.7	65.7	71.8	66.8	65.3	63.5
10/04/2018 09:45:44	00:15:00	78	54.7	65.1	73.6	67.8	62.8	58.7
10/04/2018 10:00:44	00:15:00	77.9	53.7	61.8	71.6	64.8	58.6	55.6
10/04/2018 10:15:44	00:15:00	74.4	52.9	58.1	67.3	59.1	56.3	54.4
10/04/2018 10:30:44	00:15:00	72.1	53.7	58.5	67	59.9	57.2	55.3
10/04/2018 10:45:44	00:15:00	77.9	53.4	63	70.1	65.7	62.4	55.5
10/04/2018 11:00:44	00:15:00	76.9	56.2	65.1	70.4	66.7	64.9	60.3
10/04/2018 11:15:44	00:15:00	87.5	55.5	63.6	70.5	65.7	63.3	57.1
10/04/2018 11:30:44	00:15:00	74.5	55.7	63.1	68.8	65.6	63	57.1
10/04/2018 11:45:44	00:15:00	92.2	56.1	63.5	66.9	65.4	61.5	57.6
10/04/2018 12:15:44	00:15:00	73.2	56.9	63	68.3	65.9	60.7	58.4
10/04/2018 12:30:44	00:15:00	94.4	60.6	67.1	75.3	67.1	64.8	63
10/04/2018 12:45:44	00:15:00	70.1	53.3	59.2	66.8	61.7	57.4	55.1
10/04/2018 13:00:44	00:15:00	86.6	55.2	62.7	72.5	61.5	58.4	57
10/04/2018 13:15:44	00:15:00	75.2	54.5	59.3	64.8	61.5	58.3	56
10/04/2018 13:30:44	00:15:00	71.5	54.1	57.8	64.3	59.4	57.1	55.3
10/04/2018 13:45:44	00:15:00	76.4	54.2	64.3	70.3	68.2	60.9	56.4
10/04/2018 14:00:44	00:15:00	68.7	54.9	58.7	64.7	59.9	58.1	56.3
10/04/2018 14:15:44	00:15:00	74.6	53.7	60	69.5	61.5	58	55.6
10/04/2018 14:30:44	00:15:00	87.1	55.1	65.3	77.7	66	59.8	57
10/04/2018 14:45:44	00:15:00	92.6	52.7	63.3	70	61.8	57.8	55.2
10/04/2018 15:00:44	00:15:00	70.9	53	59.2	67.8	60.9	57.6	55.2
10/04/2018 15:15:44	00:15:00	73.4	53.6	58.9	66.6	60.6	57.7	55.7
10/04/2018 15:30:44	00:15:00	84.2	54.5	62.4	72.6	62.9	58.8	56.5
10/04/2018 15:45:44	00:15:00	71.9	54.5	59.8	68.3	61.5	58.4	56.6
10/04/2018 16:00:44	00:15:00	73.4	55.1	59	67.3	59.9	57.8	56.4
10/04/2018 16:15:44	00:15:00	78.4	54.7	61	72.3	61	58	56.3
10/04/2018 16:30:44	00:15:00	71.1	53.7	59.4	69.1	61.4	56.8	55
10/04/2018 16:45:44	00:15:00	74.7	53.4	60	69.9	61.6	57.9	56.1
10/04/2018 17:00:44	00:15:00	74.7	54.9	60	69.6	60.9	58	56.3
10/04/2018 17:15:44	00:15:00	73.3	55	59.8	68.8	61.4	58.3	56.8
10/04/2018 17:30:44	00:15:00	75.9	54.7	59.9	70.1	61.1	57.2	55.7
10/04/2018 17:45:44	00:15:00	75.9	55.1	59.9	68.7	61.8	58.2	56.3
10/04/2018 18:00:44	00:15:00	75.4	54.6	59.7	69.6	60.8	57.3	55.7
10/04/2018 18:15:44	00:15:00	78.5	54.5	59.6	69.8	59.9	56.8	55.5
10/04/2018 18:30:44	00:15:00	77.2	55	59.8	69.2	60.3	57.9	56.6

10/04/2018 18:45:44	00:15:00	71.4	53.7	58.4	67.6	59.4	56.7	55.2
10/04/2018 19:00:44	00:15:00	75.3	54.3	59.5	68.9	60.3	57.8	56.4
10/04/2018 19:15:44	00:15:00	73.8	53.7	59	68.6	60.2	57.1	55.3
10/04/2018 19:30:44	00:15:00	79.8	53.7	58.3	64.7	58.9	56.7	55.1
10/04/2018 19:45:44	00:15:00	76.6	53.9	58.7	67.7	59.5	56.6	55.2
10/04/2018 20:00:44	00:15:00	71.2	53.8	58.2	67.1	59.8	56.7	55
10/04/2018 20:15:44	00:15:00	73.4	53.6	57.3	67.2	57.9	55.7	54.3
10/04/2018 20:30:44	00:15:00	74.4	53.5	58.2	67.2	58.9	56.8	54.7
10/04/2018 20:45:44	00:15:00	74.1	53.6	58.1	68.4	59.1	55.7	54.4
10/04/2018 21:00:44	00:15:00	79.3	53.7	58.8	68.5	59.5	56.2	54.8
10/04/2018 21:15:44	00:15:00	70.3	54	57	64	58.3	56	55
10/04/2018 21:30:44	00:15:00	80.6	54.3	59.5	68.8	61.3	56.8	55.2
10/04/2018 21:45:44	00:15:00	69.5	54.4	57.8	64.9	59.1	57	55.3
10/04/2018 22:00:44	00:15:00	75.6	53.6	58.5	66.7	59.8	57.2	55
10/04/2018 22:15:44	00:15:00	78.4	53.7	58.3	66.9	58.4	56.3	55
10/04/2018 22:30:44	00:15:00	72.5	53.8	57.8	66	58.8	56.5	55
10/04/2018 22:45:44	00:15:00	71.4	54.2	58.1	66.6	59.4	56.8	55.4
10/04/2018 23:00:44	00:15:00	79.4	54.2	60.1	70.3	60.9	57.4	56
10/04/2018 23:15:44	00:15:00	80.4	53.8	59.8	68.7	60.7	57.4	55.5
10/04/2018 23:30:44	00:15:00	69.4	53.8	57.3	64.1	58.3	56.6	55.2
10/04/2018 23:45:44	00:15:00	83.2	53.8	58.6	67.3	59.3	56.9	54.9
11/04/2018 00:00:44	00:15:00	71.4	53.6	57.5	67.1	58.4	55.9	54.7
11/04/2018 00:15:44	00:15:00	75.8	54	58	67.4	58.3	55.9	54.8
11/04/2018 00:30:44	00:15:00	71.8	51.3	58.2	66	59.8	56.8	54.9
11/04/2018 00:45:44	00:15:00	75.9	51.4	57.1	64.8	58.6	56.1	53
11/04/2018 01:00:44	00:15:00	84	51.9	63.8	75.2	66.6	57.7	54.1
11/04/2018 01:15:44	00:15:00	77.7	52.1	58.7	68.8	60.1	56.3	54
11/04/2018 01:30:44	00:15:00	69.8	51.5	56.8	64	58.3	55.9	53.5
11/04/2018 01:45:44	00:15:00	72.6	51.5	57.5	64.8	58.5	56.6	55.3
11/04/2018 02:00:44	00:15:00	72.2	51.3	56.7	64	57.7	56	53.3
11/04/2018 02:15:44	00:15:00	68.4	51	56.9	64.5	58.8	55.8	53.3
11/04/2018 02:30:44	00:15:00	73.6	50.7	57.3	67.8	58.6	54.9	52.5
11/04/2018 02:45:44	00:15:00	74.3	50.6	57.4	67.7	58.3	55.4	52.3
11/04/2018 03:00:44	00:15:00	77.2	50.9	58.5	68.9	60.8	54.8	52.1
11/04/2018 03:15:44	00:15:00	73.1	51.4	57.3	67.1	58.3	55.1	52.5
11/04/2018 03:30:44	00:15:00	73.4	50.6	57.6	67.3	59.3	55.2	52.5
11/04/2018 03:45:44	00:15:00	73.5	50.3	56.6	67	56.7	55.2	52.8
11/04/2018 04:00:44	00:15:00	85.9	51.2	69	83.2	68.6	56.4	54.1
11/04/2018 04:15:44	00:15:00	94.1	50.6	65.4	79	60.9	55.5	53.2
11/04/2018 04:30:44	00:15:00	74.5	49.9	57.4	68.1	59	54.9	51.7
11/04/2018 04:45:44	00:15:00	81.5	50.5	57.8	68.7	59.6	53.7	51.6
11/04/2018 05:00:44	00:15:00	70.5	50.5	55.8	64.1	56.9	55.1	51.5
11/04/2018 05:15:44	00:15:00	69.7	49.6	54.2	63.2	55.7	52.1	50.8
11/04/2018 05:30:44	00:15:00	76.2	49.6	56.2	67.9	56.3	54.4	50.7
11/04/2018 05:45:44	00:15:00	72.5	50.1	55.4	65.9	56.3	53.3	51.2
11/04/2018 06:00:44	00:15:00	78.5	51.4	61.4	73.6	63.1	56.7	54

11/04/2018 06:15:44	00:15:00	71.4	50.7	56.2	66.6	57.4	53.3	52
11/04/2018 06:30:44	00:15:00	76.4	51.1	57	66.2	57.7	54.3	52.4
11/04/2018 06:45:44	00:15:00	79	51.7	62.8	73.8	63.5	56.7	53.1
11/04/2018 07:00:44	00:15:00	80.4	51.7	60.8	73.9	59.2	55	53.2
11/04/2018 07:15:44	00:15:00	102.3	51.5	67.8	65.5	58.4	55.3	53
11/04/2018 07:30:44	00:15:00	67.5	51.4	56.5	63.4	58.6	55.6	53.3
11/04/2018 07:45:44	00:15:00	81.2	51.9	65.6	75.4	66.4	61.7	54.9
11/04/2018 08:00:44	00:15:00	87.3	53.7	63.5	75.2	63.4	59.5	56.2
11/04/2018 08:15:44	00:15:00	79.5	54	59.3	66.5	61.3	58.1	55.7
11/04/2018 08:30:44	00:15:00	77.5	54	59.9	69.7	60.9	57.5	55.7
11/04/2018 08:45:44	00:15:00	73.4	53.9	59.7	67.3	62.5	57.6	55.3
11/04/2018 09:00:44	00:15:00	74	54.6	59.8	64.7	62.7	58.6	56.6
11/04/2018 09:15:44	00:15:00	82.1	55.4	61.2	67.2	63.2	58.8	56.8
11/04/2018 09:30:44	00:15:00	78.3	54	61.6	72	63.3	58.7	56.8
11/04/2018 09:45:44	00:15:00	85.7	54.7	67.2	80.3	69.7	58.3	56.3
11/04/2018 10:00:44	00:15:00	74.7	53.4	60	70.4	62.8	56.8	54.8
11/04/2018 10:15:44	00:15:00	80.7	52.7	60.2	69.9	60.9	56.6	54.7
11/04/2018 10:30:44	00:15:00	76.2	52.6	57.7	64.2	58.9	56.1	54.1
11/04/2018 10:45:44	00:15:00	73	52.7	57.4	65.3	59	56.1	54.1
11/04/2018 11:00:44	00:15:00	73.2	52.4	57	64.9	58.7	55.7	54
11/04/2018 11:15:44	00:15:00	72.1	53.5	58.9	67.2	61	57.4	55.3
11/04/2018 11:30:44	00:15:00	76.2	54.2	60.3	69.4	61.8	58.8	56.8
11/04/2018 11:45:44	00:15:00	82.6	54.8	63.1	74.6	64.6	58.7	56.9
11/04/2018 12:15:42	00:15:00	82.7	54.5	63.4	74.6	64.8	58.8	56.3
11/04/2018 12:30:42	00:15:00	82.6	54.9	59.9	67.1	61.2	58.5	56.5
11/04/2018 12:45:42	00:15:00	80.7	55.4	61.4	71.3	61.8	58.9	57.4
11/04/2018 13:00:42	00:15:00	86.8	56.1	62.6	72.4	62.4	59.4	57.9
11/04/2018 13:15:42	00:15:00	91	54.5	68	78	70.4	59.9	56.6
11/04/2018 13:30:42	00:15:00	87.5	54.7	72.2	82	74.3	69.6	62.2
11/04/2018 13:45:42	00:15:00	76.3	53.8	60.3	70.9	61.1	57.7	55.6
11/04/2018 14:00:42	00:15:00	78.4	54	58.9	65.6	60.1	57.3	55.5
11/04/2018 14:15:42	00:15:00	85	54.1	67.9	82.2	68.9	58.9	56.2
11/04/2018 14:30:42	00:15:00	81.9	53.6	58.8	67.2	60	57.3	55.2
11/04/2018 14:45:42	00:15:00	81.5	53.6	61.1	70.5	61.5	58.5	56.4
11/04/2018 15:00:42	00:15:00	81.8	55.4	64.5	76.5	66.3	59.4	57.1
11/04/2018 15:15:42	00:15:00	76.8	53.7	59.1	67.4	60.6	57.7	55.5
11/04/2018 15:30:42	00:15:00	84.2	54.7	62.4	73.1	62.6	57.7	56
11/04/2018 15:45:42	00:15:00	85.7	54.7	63.9	74.7	64.5	58.5	56.7
11/04/2018 16:00:42	00:15:00	78.8	54.5	60.9	70.3	61.5	58.4	56.6
11/04/2018 16:15:42	00:15:00	69.4	55	58.9	65.5	60.5	58	56.5
11/04/2018 16:30:42	00:15:00	74.7	54.9	60.2	70.1	61.2	58.2	56.4
11/04/2018 16:45:42	00:15:00	79	55	60.6	70.7	61.5	57.9	56.4
11/04/2018 17:00:42	00:15:00	75.1	54.6	58.6	66.6	59.8	57.5	56
11/04/2018 17:15:42	00:15:00	72.9	55	59.7	67.3	61.9	58.1	56.3
11/04/2018 17:30:42	00:15:00	82	54.4	60.1	69.2	60.7	58.1	56.3
11/04/2018 17:45:42	00:15:00	74.7	55	59.9	70.5	60.8	57.8	56.3

11/04/2018 18:00:42	00:15:00	74.1	54.5	58.3	66.6	59.1	57.1	55.7
11/04/2018 18:15:42	00:15:00	71.9	54.1	58.8	67.4	59.9	57.6	56.1
11/04/2018 18:30:42	00:15:00	73.5	54.5	58.9	67.4	60.5	56.9	55.5
11/04/2018 18:45:42	00:15:00	74.4	55.2	58.9	67	59.9	58	56.3
11/04/2018 19:00:42	00:15:00	77.5	54.3	58.4	65.4	59.9	57.3	55.5
11/04/2018 19:15:42	00:15:00	67.8	54.5	57.8	62.5	59.1	57.4	56
11/04/2018 19:30:42	00:15:00	75	54.8	58.1	64.1	59.7	57.1	55.7
11/04/2018 19:45:42	00:15:00	74.9	54.2	58.8	68.7	59.4	56.8	55.3
11/04/2018 20:00:42	00:15:00	71.6	54	57.3	63.7	58.7	56.4	55.1
11/04/2018 20:15:42	00:15:00	72	54.2	57.2	65.6	57.9	56	55
11/04/2018 20:30:42	00:15:00	75.9	54.1	58.9	68	60.3	57.1	55.3
11/04/2018 20:45:42	00:15:00	80.9	54.6	59.1	66.8	59.5	56.9	55.6
11/04/2018 21:00:42	00:15:00	68.2	54.4	57.8	65.1	59	56.9	55.4
11/04/2018 21:15:42	00:15:00	66.8	54	56.4	61	57.7	55.9	54.9
11/04/2018 21:30:42	00:15:00	72.8	54.1	58.4	66.6	59.8	56.8	55.2
11/04/2018 21:45:42	00:15:00	76.5	54.3	58	67.8	58.6	56.2	55.1
11/04/2018 22:00:42	00:15:00	71.3	54.3	56.9	61.8	58.3	56.4	55.2
11/04/2018 22:15:42	00:15:00	83.1	54.2	58.6	66	59.5	56.9	55.3
11/04/2018 22:30:42	00:15:00	76.3	54.4	58.3	67	59.7	56.7	55.4
11/04/2018 22:45:42	00:15:00	90.4	54.5	64.3	74.6	63.7	58.2	56.2
11/04/2018 23:00:42	00:15:00	84.3	54.7	64	75.6	66	58.7	56.2
11/04/2018 23:15:42	00:15:00	70	54.2	58.2	66	59.7	57	55.4
11/04/2018 23:30:42	00:15:00	84.1	53.9	65.4	79.7	63.7	56.9	55.2
11/04/2018 23:45:42	00:15:00	85.9	54.7	65.9	80.1	63.1	57.7	56.1
12/04/2018 00:00:42	00:15:00	91.2	54.7	67.2	79.1	68.2	57.8	56.1
12/04/2018 00:15:42	00:15:00	87.2	54.8	62.4	70.5	62	57.9	56.2
12/04/2018 00:30:42	00:15:00	77.6	55.1	60.6	67.9	62.9	58.9	56.8
12/04/2018 00:45:42	00:15:00	73	54.5	59.5	66.6	61.3	58.4	56.4
12/04/2018 01:00:42	00:15:00	72.7	54.5	59.9	67.6	62	58.6	56.2
12/04/2018 01:15:42	00:15:00	85.8	54.4	66.7	81	66.4	59.3	56.1
12/04/2018 01:30:42	00:15:00	74.7	54	60.1	69.2	63.1	57.5	55.6
12/04/2018 01:45:42	00:15:00	84	54.5	59.7	68	60.6	57.5	55.9
12/04/2018 02:00:42	00:15:00	76.4	53.8	59.9	69.3	61.5	57.5	55.8
12/04/2018 02:15:42	00:15:00	86	52.2	60.3	70.7	60.7	55.9	54.1
12/04/2018 02:30:42	00:15:00	85	51.8	65.1	79.3	63.4	56.8	54
12/04/2018 02:45:42	00:15:00	83.9	50.1	59.5	70.6	60.4	55.2	51.9
12/04/2018 03:00:42	00:15:00	78.5	50.1	56.2	67.7	56.7	52.9	51.3
12/04/2018 03:15:42	00:15:00	73.6	50.5	57.4	67.3	59.6	54.9	52.1
12/04/2018 03:30:42	00:15:00	78.5	50	59.4	70.8	62.1	54.7	51.4
12/04/2018 03:45:42	00:15:00	108.2	51.1	79.2	87.6	63.5	55.2	52.5
12/04/2018 04:00:42	00:15:00	75.1	51.3	58.2	68.4	60.1	55.7	53.2
12/04/2018 04:15:42	00:15:00	73.3	50.5	58.1	68.5	60.6	55.3	52.1
12/04/2018 04:30:42	00:15:00	85	50.3	64.5	78.5	60.3	54.2	51.7
12/04/2018 04:45:42	00:15:00	76.9	49.7	57.8	70.1	56.6	52.2	50.6
12/04/2018 05:00:42	00:15:00	73.7	49.2	56.7	68.5	56.7	54.2	50.3
12/04/2018 05:15:42	00:15:00	82.7	49.6	58.8	69.2	59.5	53.6	50.7

12/04/2018 05:30:42	00:15:00	73.1	49.3	55.5	65.5	56.6	53.3	50.7
12/04/2018 05:45:42	00:15:00	64.6	51	54.8	58.8	56.5	54.7	52.2
12/04/2018 06:00:42	00:15:00	68.5	50.1	54.4	60.7	55.9	53.2	51.3
12/04/2018 06:15:42	00:15:00	88	50.2	57.8	63.6	56.1	52.9	51.4
12/04/2018 06:30:42	00:15:00	76.2	51.3	57.5	68.4	58.8	54.6	52.3
12/04/2018 06:45:42	00:15:00	77.1	52	56.5	65.2	57.4	54.5	53.2
12/04/2018 07:00:42	00:15:00	74.4	52.1	57.3	67.4	58.1	55.3	53.3
12/04/2018 07:15:42	00:15:00	104.2	51.5	69.7	74.7	62.1	56.5	53.9
12/04/2018 07:30:42	00:15:00	82.2	52.3	60.9	69	60.6	56.6	54.3
12/04/2018 07:45:42	00:15:00	67.9	51.5	56.7	64	58.9	55.3	53.1
12/04/2018 08:00:42	00:15:00	82.9	52.9	60.9	70.6	60	56.9	54.8
12/04/2018 08:15:42	00:15:00	70.1	52.9	59.3	67.4	61.2	57.8	55.7
12/04/2018 08:30:42	00:15:00	70.6	54.8	58.8	63.3	60.4	58.4	56.2
12/04/2018 08:45:42	00:15:00	74.7	54.8	59.4	66.9	61.1	58	56.4
12/04/2018 09:00:42	00:15:00	80.9	54.5	59.2	66.4	60.6	57.9	56
12/04/2018 09:15:42	00:15:00	73.7	54.4	58.7	66.5	59.9	57.5	55.8
12/04/2018 09:30:42	00:15:00	72.7	53.6	59.3	67	61.5	57.8	55.3
12/04/2018 09:45:42	00:15:00	77.8	53.2	59.4	70.1	59.9	57	55.2
12/04/2018 10:00:42	00:15:00	78	53	59.2	68	59.3	56.7	54.8
12/04/2018 10:15:42	00:15:00	70.9	52.3	58.1	65.6	59.8	57.1	55
12/04/2018 10:30:42	00:15:00	78.9	53.4	59.8	70	60.6	57.1	55.2
12/04/2018 10:33:18	00:02:36	99.1	53.7	68.8	69.1	61.8	56.7	54.5
12/04/2018 10:34:36	00:00:10	94.1	94	94.1	94.9	94.9	94.5	94.1

A4.1 Front Façade [dBA]

Date & time	Duration	Lmax	Lmin	Leq	L01	L10	L50	L90
06/04/2018 11:25:31	00:00:13	94	94	94	94.9	94.9	94.5	94.1
06/04/2018 12:15:44	00:15:00	88.8	56.3	64	70.8	65	63.1	59
06/04/2018 12:30:44	00:15:00	71.6	53.3	58.1	66.7	60.5	56.1	54.5
06/04/2018 12:45:44	00:15:00	72.1	52.6	57	63.9	58.7	55.8	54.1
06/04/2018 13:00:44	00:15:00	69.3	52.2	57.1	64.9	58.9	55.8	54.1
06/04/2018 13:15:44	00:15:00	67	52.1	55.7	60.6	57.2	55.1	53.4
06/04/2018 13:30:44	00:15:00	71.5	52.4	57.3	65.7	58.8	55.8	54.3
06/04/2018 13:45:44	00:15:00	74	52.6	56.5	63.7	57.8	55.5	54.1
06/04/2018 14:00:44	00:15:00	71.5	52.8	56.4	62.2	58	55.6	54.1
06/04/2018 14:15:44	00:15:00	81.5	52.7	58.2	65.2	59.3	56.2	54.5
06/04/2018 14:30:44	00:15:00	73.8	54	57.2	62.8	58.5	56.4	55.2
06/04/2018 14:45:44	00:15:00	82.7	53.4	61.9	74.2	63.2	56.2	54.5
06/04/2018 15:00:44	00:15:00	69.4	52.8	56.1	62.3	57.4	55.3	54
06/04/2018 15:15:44	00:15:00	73.1	52.7	57.8	65.6	59.2	56.3	54.6
06/04/2018 15:30:44	00:15:00	71.4	52.9	57.3	62.9	59.8	56	54.4
06/04/2018 15:45:44	00:15:00	76.6	52.7	58.6	63.9	60.9	57.7	54.6
06/04/2018 16:00:44	00:15:00	73.6	52.7	57	65	58.2	55.5	54.1
06/04/2018 16:15:44	00:15:00	81	53.2	60.3	70.8	61.8	56.5	54.7

06/04/2018 16:30:44	00:15:00	77.4	51.9	56.3	63.3	57.9	55.1	53.6
06/04/2018 16:45:44	00:15:00	69.8	52.6	55.9	62	57.4	55	53.8
06/04/2018 17:00:44	00:15:00	80.2	52.3	57.8	68.1	57.9	54.8	53.5
06/04/2018 17:15:44	00:15:00	67.6	51.9	55.7	62.7	57.1	54.9	53.4
06/04/2018 17:30:44	00:15:00	67.3	51.6	55.2	62.5	56.4	54.3	53
06/04/2018 17:45:44	00:15:00	76	51.6	55.2	61.7	56.2	54.1	52.8
06/04/2018 18:00:44	00:15:00	79.9	52	56.2	62.3	56.9	54.3	53.1
06/04/2018 18:15:44	00:15:00	79.5	51.9	58.3	66.1	58.8	54.8	53.4
06/04/2018 18:30:44	00:15:00	69.3	50.6	55.1	62.2	56.1	54.4	53.1
06/04/2018 18:45:44	00:15:00	82.8	51.5	59.8	71.6	58.5	54.6	53
06/04/2018 19:00:44	00:15:00	65.4	51.2	54.7	60.6	56.4	53.9	52.3
06/04/2018 19:15:44	00:15:00	65.1	51.4	54.6	60.5	56.3	53.8	52.4
06/04/2018 19:30:44	00:15:00	64.3	51.7	54.8	60.3	56.6	54.2	52.9
06/04/2018 19:45:44	00:15:00	65.4	52	55.4	62.7	56.7	54.5	53.2
06/04/2018 20:00:44	00:15:00	72	51.1	55.7	62.9	56.7	54.3	53
06/04/2018 20:15:44	00:15:00	69.2	51.4	55.4	63.1	56.8	54.3	52.9
06/04/2018 20:30:44	00:15:00	71.1	51.9	55.8	63.3	57.7	54.4	53
06/04/2018 20:45:44	00:15:00	88.7	51.8	61.8	70.2	58.9	54.7	53.1
06/04/2018 21:00:44	00:15:00	81.7	51.7	56	62.7	57.5	54.5	53
06/04/2018 21:15:44	00:15:00	66.9	51.9	55.3	61.6	56.8	54.5	53.2
06/04/2018 21:30:44	00:15:00	69	51.7	55.3	61.4	57	54.5	53.1
06/04/2018 21:45:44	00:15:00	72.1	52.3	56.2	63.8	58.3	54.5	53.1
06/04/2018 22:00:44	00:15:00	71.8	52	57.1	67.5	57.9	55.5	53.2
06/04/2018 22:15:44	00:15:00	71.1	52.3	56.7	64.7	58.3	55.4	53.5
06/04/2018 22:30:44	00:15:00	64.4	52.5	55.9	61.6	57.5	55.3	54
06/04/2018 22:45:44	00:15:00	69.1	53.1	56.2	61	57.6	55.6	54.2
06/04/2018 23:00:44	00:15:00	72.6	53.4	58.3	68.9	59.6	56.4	55
06/04/2018 23:15:44	00:15:00	76.8	53.9	62.4	74.9	64.8	56.7	55.1
06/04/2018 23:30:44	00:15:00	78.2	53.7	58.1	64.5	59.5	57	55.4
06/04/2018 23:45:44	00:15:00	75.9	53.9	58.8	66.9	60.1	57.2	55.4
07/04/2018 00:00:44	00:15:00	83.6	54.3	61.5	72.8	62.5	57.5	55.7
07/04/2018 00:15:44	00:15:00	79.4	54.3	59.8	67.6	61.5	58.2	56.2
07/04/2018 00:30:44	00:15:00	74.1	55	59.8	66	61.6	58.8	57
07/04/2018 00:45:44	00:15:00	77.3	54.9	60.3	65.4	62	59.3	57.3
07/04/2018 01:00:44	00:15:00	73.5	54.9	59.5	65.9	61.3	58.5	56.5
07/04/2018 01:15:44	00:15:00	73.7	54.1	59.3	65	61.4	58.5	56.5
07/04/2018 01:30:44	00:15:00	80.1	53.9	60.9	68.6	63.1	58.8	56.3
07/04/2018 01:45:44	00:15:00	77.5	55.7	61.6	68.4	63.7	60.3	57.9
07/04/2018 02:00:44	00:15:00	80.9	55.3	61.1	67.7	62.9	59.9	58
07/04/2018 02:15:44	00:15:00	78	55.1	60.3	66.2	62.3	59.4	57.3
07/04/2018 02:30:44	00:15:00	75.8	55.4	61.8	70.8	64.6	59.6	57.2
07/04/2018 02:45:44	00:15:00	78.3	55	60.6	68.2	62.4	59.2	57.2
07/04/2018 03:00:44	00:15:00	82.5	54.9	63.4	75.6	62.7	59.1	56.9
07/04/2018 03:15:44	00:15:00	83.5	54.7	61.2	69	62.8	59	56.9
07/04/2018 03:30:44	00:15:00	73.9	55.4	60.5	66.6	62.7	59.5	57.4
07/04/2018 03:45:44	00:15:00	83.6	54.9	64.7	76.2	66.5	60.7	57.5

07/04/2018 04:00:44	00:15:00	77.1	53.5	60.6	68.1	63	58.8	56.1
07/04/2018 04:15:44	00:15:00	82	53.4	62.2	72.4	64.2	58.3	55.3
07/04/2018 04:30:44	00:15:00	75	52.4	60.8	72.2	63.3	56.8	54.1
07/04/2018 04:45:44	00:15:00	86.2	51.7	59.6	68.1	61.4	55.7	53.5
07/04/2018 05:00:44	00:15:00	69.9	50.8	56	63.5	58.4	54.3	52.6
07/04/2018 05:15:44	00:15:00	76.4	50.9	58.1	68.5	60.1	54.6	52.3
07/04/2018 05:30:44	00:15:00	73.7	50	57.5	68.6	60.1	53.1	51.3
07/04/2018 05:45:44	00:15:00	78.1	50.2	55.6	62.6	57.2	54.1	52.1
07/04/2018 06:00:44	00:15:00	65.4	49.2	54	62	56	52.7	51
07/04/2018 06:15:44	00:15:00	79.8	49.6	56	63	57.8	53.6	51.5
07/04/2018 06:30:44	00:15:00	69.6	50.2	55.3	63.1	57.6	53.7	52
07/04/2018 06:45:44	00:15:00	65.4	48.7	52.7	59.7	54.2	51.7	50.1
07/04/2018 07:00:44	00:15:00	79.6	47.9	54.5	60	55.1	51.8	49.9
07/04/2018 07:15:44	00:15:00	72.5	48	53	61.4	53.8	51.5	49.5
07/04/2018 07:30:44	00:15:00	68	48.5	53.1	59.9	54.7	52.3	50.1
07/04/2018 07:45:44	00:15:00	71.6	48.1	55.5	67.1	56.9	52.4	50.2
07/04/2018 08:00:44	00:15:00	72.6	49	54.4	62.6	55.7	52.8	51.2
07/04/2018 08:15:44	00:15:00	70.4	49.9	54.5	59.3	56.4	53.6	51.5
07/04/2018 08:30:44	00:15:00	66.9	50.6	55.4	61.9	57.6	54.3	52.3
07/04/2018 08:45:44	00:15:00	89.1	51.2	60.9	68.3	57.8	54.6	52.9
07/04/2018 09:00:44	00:15:00	64.2	50.2	54.4	59.4	56	53.8	52.1
07/04/2018 09:15:44	00:15:00	77.8	49.8	56.2	65.6	57.6	53.8	51.9
07/04/2018 09:30:44	00:15:00	77.3	50.2	57	65.3	59.1	54.7	52.9
07/04/2018 09:45:44	00:15:00	69.4	50.9	55.6	61.7	57.4	54.6	52.6
07/04/2018 10:00:44	00:15:00	81.8	51.1	65.6	77.7	69.1	55.3	53
07/04/2018 10:15:44	00:15:00	82.2	51.8	63.7	77.1	63.4	55.9	53.4
07/04/2018 10:30:44	00:15:00	74.6	52.7	58.6	68.6	59.6	56	54.2
07/04/2018 10:45:44	00:15:00	73.1	51.1	56.5	64.3	58.5	54.9	53.2
07/04/2018 11:00:44	00:15:00	68.8	51.5	56.2	63	57.8	55.2	53.3
07/04/2018 11:15:44	00:15:00	67.2	52.5	56.9	63.1	58.9	55.9	54.1
07/04/2018 11:30:44	00:15:00	72.4	52.8	56.1	60.7	57.6	55.6	54
07/04/2018 11:45:44	00:15:00	83.5	52.5	58.7	66.4	58.1	55.5	53.7
07/04/2018 12:15:42	00:15:00	69.8	52.5	55.9	60.8	57.4	55.4	54
07/04/2018 12:30:42	00:15:00	71.5	53.1	57.4	63	59.1	56.6	54.8
07/04/2018 12:45:42	00:15:00	81.9	53.3	58.5	64.3	62.2	56.6	54.6
07/04/2018 13:00:42	00:15:00	77.5	51.6	59.1	67	63.4	55.9	53.8
07/04/2018 13:15:42	00:15:00	73.6	51.9	56.1	62.3	57.5	55.3	53.6
07/04/2018 13:30:42	00:15:00	73.8	51.5	55.9	60.6	56.9	55	53.2
07/04/2018 13:45:42	00:15:00	72	52.4	56.8	64.4	57.8	55.5	54
07/04/2018 14:00:42	00:15:00	79.7	51.9	59.6	70.8	58.4	55	53.2
07/04/2018 14:15:42	00:15:00	72.9	51.4	55.4	60.4	56.8	54.6	53
07/04/2018 14:30:42	00:15:00	72	51.2	58.4	66	61.9	56.1	53.1
07/04/2018 14:45:42	00:15:00	77.7	51.5	56.4	63.9	56.9	54.4	52.9
07/04/2018 15:00:42	00:15:00	77	50.5	56.3	65.3	57.7	54.4	52.3
07/04/2018 15:15:42	00:15:00	78.4	51.1	56.3	65.8	57.4	54.2	52.6
07/04/2018 15:30:42	00:15:00	70	50.7	54.8	61.1	56.4	53.8	52.1

07/04/2018 15:45:42	00:15:00	64.5	50.3	54.5	59.6	56.5	53.8	52
07/04/2018 16:00:42	00:15:00	74.5	50.7	55.3	62.1	56.3	54.1	52.6
07/04/2018 16:15:42	00:15:00	74.4	51.6	57	64	58.9	55.7	53.5
07/04/2018 16:30:42	00:15:00	67	51.6	56.4	63.6	58.5	55.3	53.5
07/04/2018 16:45:42	00:15:00	83.7	52.4	61.9	72.9	61.7	56.2	54
07/04/2018 17:00:42	00:15:00	74.2	50.5	56	62.7	58	54.8	52.9
07/04/2018 17:15:42	00:15:00	76	50.4	58.1	69.7	58.6	54.6	52.5
07/04/2018 17:30:42	00:15:00	81.1	51.9	58.9	69.8	59.5	55.9	54.3
07/04/2018 17:45:42	00:15:00	69.7	52	56.9	64.2	59	55.5	53.9
07/04/2018 18:00:42	00:15:00	69.3	51.4	55.6	62.4	57.7	54.5	52.8
07/04/2018 18:15:42	00:15:00	70	50.8	55.6	62.5	57.7	54.5	52.9
07/04/2018 18:30:42	00:15:00	70.8	53.1	57.1	61.7	58.2	56.7	55.3
07/04/2018 18:45:42	00:15:00	72.4	54.6	58	65.1	59.5	56.9	55.9
07/04/2018 19:00:42	00:15:00	73.4	51.8	58.7	66.9	60.5	57.2	54.9
07/04/2018 19:15:42	00:15:00	68	51.7	55.8	62.7	57.8	54.7	53.1
07/04/2018 19:30:42	00:15:00	71.6	51.7	56.4	63.4	58.5	55	53.3
07/04/2018 19:45:42	00:15:00	71.4	51.9	57.2	65	59.4	55.5	53.7
07/04/2018 20:00:42	00:15:00	75	52.4	56.2	63.4	57.7	54.7	53.3
07/04/2018 20:15:42	00:15:00	81.9	53	61.1	71.9	63.2	55.8	54.3
07/04/2018 20:30:42	00:15:00	73.9	52.5	59.8	70.7	62.5	55.8	54
07/04/2018 20:45:42	00:15:00	66.1	53	56	60.9	57.6	55.4	54.1
07/04/2018 21:00:42	00:15:00	67.7	53.2	56.5	62	57.9	55.8	54.4
07/04/2018 21:15:42	00:15:00	69.7	54	57	62.9	58.6	56.3	55.1
07/04/2018 21:30:42	00:15:00	82.3	53.5	62.7	74.5	65.1	56.5	55
07/04/2018 21:45:42	00:15:00	66.8	53.9	56.7	61.6	57.9	56.3	55.1
07/04/2018 22:00:42	00:15:00	69.6	53.6	57.2	62.8	59.5	56.2	55
07/04/2018 22:15:42	00:15:00	73.6	57	60	68.3	60.8	58.9	58
07/04/2018 22:30:42	00:15:00	73.9	57.1	60	67.1	61.3	59	58
07/04/2018 22:45:42	00:15:00	71	53.3	57.8	63	59.5	56.9	55.4
07/04/2018 23:00:42	00:15:00	73.9	54.2	59.9	69.1	61.5	57.9	56.2
07/04/2018 23:15:42	00:15:00	79.6	54.6	59.7	66.8	60.9	58.4	56.3
07/04/2018 23:30:42	00:15:00	76.2	55.6	61.2	68.8	63.2	59.9	57.9
07/04/2018 23:45:42	00:15:00	82.6	56.2	63.9	74.2	65.6	60.3	58.1
08/04/2018 00:00:42	00:15:00	83.1	55.7	63.3	72.8	65.7	60.2	58
08/04/2018 00:15:42	00:15:00	84.8	55.9	61.9	68.7	63	59.9	58
08/04/2018 00:30:42	00:15:00	81.6	55.5	62.3	70.3	64.3	60.5	58.1
08/04/2018 00:45:42	00:15:00	73.5	55.7	60.7	66.5	62.5	60	58.1
08/04/2018 01:00:42	00:15:00	73.5	56.8	61.7	68.2	63.8	60.7	58.7
08/04/2018 01:15:42	00:15:00	74.7	56.4	61.5	68	63.3	60.5	58.6
08/04/2018 01:30:42	00:15:00	79.9	56.1	61.3	68.3	62.9	60.1	58.2
08/04/2018 01:45:42	00:15:00	82.6	56.6	64.4	73.9	66.4	61.4	59.1
08/04/2018 02:00:42	00:15:00	78.5	56.4	64.2	74	66.9	61.3	58.8
08/04/2018 02:15:42	00:15:00	77.2	56.4	61.9	70	64	60.3	58.2
08/04/2018 02:30:42	00:15:00	81.3	56.2	61.6	67.7	63.7	60.2	58.1
08/04/2018 02:45:42	00:15:00	83.1	56	62.3	69.9	64.1	60.4	58.3
08/04/2018 03:00:42	00:15:00	77.3	56.8	61.4	67.1	63.5	60.4	58.5

08/04/2018 03:15:42	00:15:00	78.2	56.3	62.6	70	64.8	61.1	58.5
08/04/2018 03:30:42	00:15:00	76.7	55.7	61.5	68.4	63.6	60.2	58
08/04/2018 03:45:42	00:15:00	81.3	55.7	61.6	68.1	63.6	60.3	58
08/04/2018 04:00:42	00:15:00	77	55.4	61.8	69.6	63.9	60.3	58
08/04/2018 04:15:42	00:15:00	83.9	55.7	64.6	72.8	66.8	62	58.7
08/04/2018 04:30:42	00:15:00	76.4	53.3	61.9	70.4	65.3	59	56.2
08/04/2018 04:45:42	00:15:00	81.7	53.7	63.2	74.9	65.2	57.9	55.1
08/04/2018 05:00:42	00:15:00	82.4	51.5	62.1	73	64.1	57.4	54.2
08/04/2018 05:15:42	00:15:00	83.8	51.1	61.7	73.8	62.5	55.6	53.2
08/04/2018 05:30:42	00:15:00	77.6	51.3	56.4	64.1	58.6	54.7	52.7
08/04/2018 05:45:42	00:15:00	74.5	50	55.6	64.5	57.6	53.5	51.5
08/04/2018 06:00:42	00:15:00	68.3	50.3	54.8	62.5	56.9	53.3	51.7
08/04/2018 06:15:42	00:15:00	70.6	50.4	56.3	65.8	58.7	53.6	51.8
08/04/2018 06:30:42	00:15:00	73.2	49	53.4	61.5	55.4	51.7	50.1
08/04/2018 06:45:42	00:15:00	82.4	49	57.4	67.8	58.6	52.9	50.9
08/04/2018 07:00:42	00:15:00	69.6	49.2	53.9	59.9	56.3	52.5	50.7
08/04/2018 07:15:42	00:15:00	75.2	48.6	59.7	72.2	62.2	53.7	50.4
08/04/2018 07:30:42	00:15:00	75	49.7	61	72.6	64	54.8	51.9
08/04/2018 07:45:42	00:15:00	73.8	48.3	54.2	62.8	56	51.7	50
08/04/2018 08:00:42	00:15:00	69.6	47.7	54.5	65.1	56.6	51.6	49.4
08/04/2018 08:15:42	00:15:00	68.1	47.1	52.4	59.6	54.2	50.9	49
08/04/2018 08:30:42	00:15:00	70.7	47.8	53.4	63	54.5	51	49.3
08/04/2018 08:45:42	00:15:00	66.5	47.6	51.8	59.2	52.9	50.8	49.1
08/04/2018 09:00:42	00:15:00	77.1	48.7	53.3	60.7	54.5	51.4	49.6
08/04/2018 09:15:42	00:15:00	66.7	48.8	53.1	60.4	55	51.9	50
08/04/2018 09:30:42	00:15:00	80.8	49.1	57.6	68	58.3	52.7	51
08/04/2018 09:45:42	00:15:00	68.3	48.4	53.5	62.1	55.4	51.9	50.1
08/04/2018 10:00:42	00:15:00	71.8	48.4	54.6	62.9	56.1	52.2	50.2
08/04/2018 10:15:42	00:15:00	76.2	49.4	58.8	71	60.3	52.5	51
08/04/2018 10:30:42	00:15:00	66.7	49.7	53.2	59.6	54.7	52.2	51
08/04/2018 10:45:42	00:15:00	68.2	50.2	53.5	59.3	54.9	52.6	51.2
08/04/2018 11:00:42	00:15:00	77.4	49.9	54.7	61.4	56	53.4	51.6
08/04/2018 11:15:42	00:15:00	74.3	49.2	54.5	61.4	56.4	52.8	51.2
08/04/2018 11:30:42	00:15:00	71.2	49.1	53.9	61.5	55.5	52.6	51
08/04/2018 11:45:42	00:15:00	68.9	49	53.3	59.3	54.9	52.5	50.9
08/04/2018 12:15:42	00:15:00	67.3	49	53.9	60.3	55.7	52.9	51.2
08/04/2018 12:30:42	00:15:00	64.4	49.9	53.9	59.7	55.4	53.1	51.6
08/04/2018 12:45:42	00:15:00	67.7	49.4	54.1	61.1	56	52.9	51.1
08/04/2018 13:00:42	00:15:00	80.2	49.1	57.1	67	55.6	52.6	50.9
08/04/2018 13:15:42	00:15:00	66.2	49.2	53.2	58.9	54.8	52.4	50.6
08/04/2018 13:30:42	00:15:00	65.2	49.8	53.7	59.1	55.8	52.9	51.2
08/04/2018 13:45:42	00:15:00	65.9	49.7	53.3	58.6	54.9	52.6	51.1
08/04/2018 14:00:42	00:15:00	69.1	49.2	54	61.4	55.6	52.9	51
08/04/2018 14:15:42	00:15:00	71	50.4	54	59.7	55.4	53.1	51.6
08/04/2018 14:30:42	00:15:00	84	49.9	64.4	76.8	67.3	53.7	51.5
08/04/2018 14:45:42	00:15:00	71.5	50	56.9	68.6	58.3	53.7	51.8

08/04/2018 15:00:42	00:15:00	69.6	49.5	53.4	57.8	55	53	51.2
08/04/2018 15:15:42	00:15:00	76.8	49.9	54.4	62	55.8	52.8	51.2
08/04/2018 15:30:42	00:15:00	68.6	50.5	54.7	62.1	56.5	53.6	52
08/04/2018 15:45:42	00:15:00	68.1	50	53.6	59.3	54.9	52.9	51.4
08/04/2018 16:00:42	00:15:00	88.3	50.4	56.2	58.9	55.6	53.3	51.7
08/04/2018 16:15:42	00:15:00	68.9	51.6	55	61	56.4	54.3	52.7
08/04/2018 16:30:42	00:15:00	63.6	50.9	54.8	59.4	56.5	54.3	52.6
08/04/2018 16:45:42	00:15:00	65.5	51	54.9	60.5	56.6	54.2	52.9
08/04/2018 17:00:42	00:15:00	66	51.2	55.1	60.5	56.8	54.4	53
08/04/2018 17:15:42	00:15:00	68.4	51.3	55.2	61.5	56.6	54.4	53
08/04/2018 17:30:42	00:15:00	71.6	50.9	56.6	65	58.4	55	53.2
08/04/2018 17:45:42	00:15:00	70.6	51.5	55.9	61	57.7	55.3	53.2
08/04/2018 18:00:42	00:15:00	63.6	51	56	60.2	58	55.6	53.2
08/04/2018 18:15:42	00:15:00	74.9	51.2	56.4	61.1	58.6	55.2	53.1
08/04/2018 18:30:42	00:15:00	68.6	51.5	56.5	61.8	58.4	55.7	53.5
08/04/2018 18:45:42	00:15:00	72.4	51.4	56	63.9	57.2	54.7	53.1
08/04/2018 19:00:42	00:15:00	68.2	52.3	56	61.6	57.7	55.3	53.6
08/04/2018 19:15:42	00:15:00	66.8	52.5	56.5	61.7	58.1	56	54.1
08/04/2018 19:30:42	00:15:00	76.1	51.6	56.6	62.8	58.2	55.4	53.4
08/04/2018 19:45:42	00:15:00	71.7	51.5	57.6	63.7	60.1	56.4	53.8
08/04/2018 20:00:42	00:15:00	73.5	51.7	57.1	63.7	58.9	55.8	53.8
08/04/2018 20:15:42	00:15:00	71.6	51.8	57.4	64.5	59.3	56.4	54
08/04/2018 20:30:42	00:15:00	81.6	51.4	61.2	73.3	61.3	55.9	53.5
08/04/2018 20:45:42	00:15:00	74.1	52.4	57.2	62.2	58.8	56.2	54.3
08/04/2018 21:00:42	00:15:00	69.8	54.8	58.1	62.7	59.5	57.5	56.1
08/04/2018 21:15:42	00:15:00	68.9	52	56.7	62	58.8	55.8	54.1
08/04/2018 21:30:42	00:15:00	67.4	51.1	55.4	61	57.2	54.8	53
08/04/2018 21:45:42	00:15:00	80.2	50.9	57.8	66.3	59.4	54.7	52.8
08/04/2018 22:00:42	00:15:00	67.1	50.5	54.6	61.4	56.4	53.7	52.2
08/04/2018 22:15:42	00:15:00	79.8	50.6	55.1	61.2	56.1	53.6	52.1
08/04/2018 22:30:42	00:15:00	65.5	51.3	54.7	60.5	56.4	53.9	52.5
08/04/2018 22:45:42	00:15:00	64.2	50.2	53.9	59.7	55.4	53.2	52
08/04/2018 23:00:42	00:15:00	74.4	50.7	56.9	67.3	58.3	53.8	52.2
08/04/2018 23:15:42	00:15:00	69.4	51.2	55.1	61.9	56.6	54.1	52.5
08/04/2018 23:30:42	00:15:00	71	51.4	56.7	66.5	57.9	54.5	52.9
08/04/2018 23:45:42	00:15:00	67.8	51.7	56.1	62.2	58.1	55.2	53.2
09/04/2018 00:00:42	00:15:00	74.9	51.2	56.6	64.7	58.4	54.9	52.9
09/04/2018 00:15:42	00:15:00	65.6	50.7	54.7	62.2	56.5	53.5	52.1
09/04/2018 00:30:42	00:15:00	72.2	49.8	54.8	63.8	56	52.8	51.3
09/04/2018 00:45:42	00:15:00	66.9	50	54.5	61.8	56.3	53.4	51.9
09/04/2018 01:00:42	00:15:00	70.4	49.8	55.3	64.5	57.2	53.4	51.7
09/04/2018 01:15:42	00:15:00	67	49.2	54.2	62	56.2	52.5	50.6
09/04/2018 01:30:42	00:15:00	83.8	50	56	62.4	56	52.8	51.2
09/04/2018 01:45:42	00:15:00	70.6	50.3	54.2	61	55.8	53.2	51.6
09/04/2018 02:00:42	00:15:00	76.8	49.4	54.6	62.6	56.4	52.7	50.9
09/04/2018 02:15:42	00:15:00	68.5	50	54.4	62.3	56.3	53	51.3

09/04/2018 02:30:42	00:15:00	79.2	49.3	56.4	66.2	58.2	53.4	51
09/04/2018 02:45:42	00:15:00	79.2	49.1	58	68.8	59.9	52.8	50.5
09/04/2018 03:00:42	00:15:00	69.4	48.7	53.3	60.6	55.3	52	50.3
09/04/2018 03:15:42	00:15:00	70.9	48.4	53.7	63.2	55.3	51.7	50.1
09/04/2018 03:30:42	00:15:00	69.7	48.2	54.8	66.3	55.9	51.2	49.4
09/04/2018 03:45:42	00:15:00	68.7	48.5	53.9	64.1	55.6	51.4	50
09/04/2018 04:00:42	00:15:00	69.1	47.6	53	61.6	55.2	51.1	49.3
09/04/2018 04:15:42	00:15:00	78	47.5	54.6	64.1	55.9	52.5	49.3
09/04/2018 04:30:42	00:15:00	78.5	48.5	56.1	67.3	56	51.3	49.9
09/04/2018 04:45:42	00:15:00	69.6	48.9	52.6	62.7	53	50.7	49.4
09/04/2018 05:00:42	00:15:00	73.9	47.1	54	61.1	56.1	51.7	49.6
09/04/2018 05:15:42	00:15:00	74.7	48.5	55.3	62.9	57.7	53.6	50.1
09/04/2018 05:30:42	00:15:00	68.4	47.7	52.3	61.6	53.5	50	48.9
09/04/2018 05:45:42	00:15:00	67.5	48	51.8	57.6	53.6	50.7	49.2
09/04/2018 06:00:42	00:15:00	70.6	48.1	53.3	62	55.1	51.3	49.5
09/04/2018 06:15:42	00:15:00	70.2	48.6	53.5	62	54.7	51.7	50
09/04/2018 06:30:42	00:15:00	80.5	49.4	64.6	76.8	67.9	55.6	51.5
09/04/2018 06:45:42	00:15:00	73.1	48.9	55	64.6	56.9	52.7	50.7
09/04/2018 07:00:42	00:15:00	66.5	49.7	53.5	59.6	55.2	52.6	51
09/04/2018 07:15:42	00:15:00	81.1	49.8	56.6	65.1	57.3	53.5	51.4
09/04/2018 07:30:42	00:15:00	70.8	50.7	55.3	63.1	56.5	54	52.4
09/04/2018 07:45:42	00:15:00	89.5	51.1	63.8	73.8	63.8	58.1	53.9
09/04/2018 08:00:42	00:15:00	72.3	52.8	58.2	68.2	59.3	56	54.2
09/04/2018 08:15:42	00:15:00	65.9	51.7	55.8	60.3	57.6	55.3	53.8
09/04/2018 08:30:42	00:15:00	73.2	52.3	57.5	67.2	59.3	55.7	54
09/04/2018 08:45:42	00:15:00	76.2	52	56.7	64.4	57.6	55.2	53.7
09/04/2018 09:00:42	00:15:00	75.5	52.2	57.1	64.6	57.8	55.1	53.4
09/04/2018 09:15:42	00:15:00	71.7	52.7	56.4	62.7	57.8	55.5	54.1
09/04/2018 09:30:42	00:15:00	70.5	53.4	56.9	62.8	58.4	56.3	54.7
09/04/2018 09:45:42	00:15:00	70.6	54	57.6	62.8	59.2	56.9	55.3
09/04/2018 10:00:42	00:15:00	82.8	53.5	61.3	71.7	60.1	57.4	55.3
09/04/2018 10:15:42	00:15:00	73.5	53	56.9	62.9	58.4	55.9	54.3
09/04/2018 10:30:42	00:15:00	77.7	52.7	58.1	67.2	59.7	56	54.2
09/04/2018 10:45:42	00:15:00	78.2	51.6	57.5	64.8	60	56	53.3
09/04/2018 11:00:42	00:15:00	66.2	51.1	55.2	61.1	56.7	54.5	53
09/04/2018 11:15:42	00:15:00	67.6	51.7	55.4	61.2	56.8	54.8	53.1
09/04/2018 11:30:42	00:15:00	77.5	52.4	61.2	73.2	62.8	56.6	54.2
09/04/2018 11:45:42	00:15:00	77.9	52.3	57.2	62.9	58.6	55.9	54.2
09/04/2018 12:15:42	00:15:00	72.9	53	62.5	68.8	65.6	61.3	55.3
09/04/2018 12:30:42	00:15:00	65.6	52.7	56.2	60.9	57.8	55.8	54.1
09/04/2018 12:45:42	00:15:00	67.2	52.4	56.4	64.1	57.9	55.5	54
09/04/2018 13:00:42	00:15:00	64.9	52.2	55.7	60.5	57.3	55.3	53.8
09/04/2018 13:15:42	00:15:00	77.3	52.9	57.5	64.2	58.7	55.9	54.3
09/04/2018 13:30:42	00:15:00	75.2	52.3	56.9	60.9	58.5	56.3	54.1
09/04/2018 13:45:42	00:15:00	79.5	52	58.3	67.8	59.7	55.5	53.7
09/04/2018 14:00:42	00:15:00	75.6	52.8	56.6	63.2	58.3	55.7	54.1

09/04/2018 14:15:42	00:15:00	77.5	53.3	62	70.2	67.8	57.1	54.8
09/04/2018 14:30:42	00:15:00	73	53.4	60.4	69.3	64.3	56.9	55.3
09/04/2018 14:45:42	00:15:00	75.8	52.7	61.5	72.9	63.8	56.2	54.2
09/04/2018 15:00:42	00:15:00	78.8	52.3	60.3	71.7	62.4	56.3	54.1
09/04/2018 15:15:42	00:15:00	69.7	51.2	55.8	62.7	57.2	54.8	53.3
09/04/2018 15:30:42	00:15:00	83.9	53.1	60.8	71.7	61.7	56.5	54.7
09/04/2018 15:45:42	00:15:00	75.3	53	57.2	64.9	58.1	55.7	54.3
09/04/2018 16:00:42	00:15:00	76.6	53.4	57.4	63.8	58.8	56.5	55
09/04/2018 16:15:42	00:15:00	81.8	52.9	58.5	68.4	59.4	56.5	54.6
09/04/2018 16:30:42	00:15:00	67.6	51.9	55.9	61.5	57.3	55.3	53.9
09/04/2018 16:45:42	00:15:00	74	51.4	55.1	60.4	56.5	54.5	53.1
09/04/2018 17:00:42	00:15:00	69.5	51.6	55.5	60.7	57	54.8	53.2
09/04/2018 17:15:42	00:15:00	70.6	51.8	56	62.5	57.5	55.1	53.4
09/04/2018 17:30:42	00:15:00	73.9	52.1	56.9	65.1	58.4	55	53.3
09/04/2018 17:45:42	00:15:00	92.3	51.9	65.6	75.8	58.1	54.9	53.4
09/04/2018 18:00:42	00:15:00	68.3	51.5	56.1	65.5	57.7	54.5	53
09/04/2018 18:15:42	00:15:00	74.1	51.2	56.3	65.5	58	54.5	53
09/04/2018 18:30:42	00:15:00	70.4	52.1	55.5	62.9	56.8	54.4	53.2
09/04/2018 18:45:42	00:15:00	79.2	52.2	58.3	68.5	58.8	54.8	53.3
09/04/2018 19:00:42	00:15:00	72	51.9	56.3	66.4	57.1	54.6	53.1
09/04/2018 19:15:42	00:15:00	69.5	52.2	55.3	61.3	56.6	54.5	53.1
09/04/2018 19:30:42	00:15:00	66.1	51.5	54.7	60.5	56	54.2	52.6
09/04/2018 19:45:42	00:15:00	65.1	52.4	55.3	61	56.8	54.6	53.3
09/04/2018 20:00:42	00:15:00	70.4	51.8	55.4	61.9	56.8	54.5	53.1
09/04/2018 20:15:42	00:15:00	70.5	51.7	55.5	61.9	57.1	54.5	53
09/04/2018 20:30:42	00:15:00	73.2	51.2	57.1	67	58.5	54.8	53.2
09/04/2018 20:45:42	00:15:00	72.1	51.8	56.7	64.8	58.3	54.9	53.2
09/04/2018 21:00:42	00:15:00	72.1	52.1	57.2	67	58.9	55.1	53.4
09/04/2018 21:15:42	00:15:00	67.5	52.2	55.5	61.6	56.8	54.7	53.3
09/04/2018 21:30:42	00:15:00	84	51.9	60.5	71.8	58.3	54.6	53.1
09/04/2018 21:45:42	00:15:00	70.7	51	55.2	61.3	56.9	54.2	52.4
09/04/2018 22:00:42	00:15:00	68.4	51.5	55.5	64.2	56.9	54.3	52.7
09/04/2018 22:15:42	00:15:00	65.5	51.9	55.1	61.1	56.7	54.4	53.1
09/04/2018 22:30:42	00:15:00	69.3	51.6	55.3	61.1	56.8	54.5	53.1
09/04/2018 22:45:42	00:15:00	70	51.2	55.2	62.9	56.7	54.1	53
09/04/2018 23:00:42	00:15:00	67.7	51.7	55.5	62.9	56.9	54.3	53
09/04/2018 23:15:42	00:15:00	63.3	51.2	54.7	60.1	56.3	54.1	52.8
09/04/2018 23:30:42	00:15:00	67.6	51	55.3	62.6	57.4	54	52.5
09/04/2018 23:45:42	00:15:00	70.8	52.2	56.6	65.6	58.5	54.8	53.2
10/04/2018 00:00:42	00:15:00	69.6	51.7	56.1	63.8	58.3	54.4	52.7
10/04/2018 00:15:42	00:15:00	76.9	51.3	56.4	64.4	58.2	54.8	53
10/04/2018 00:30:42	00:15:00	66.1	50.1	54.7	62.2	56.8	53.3	51.6
10/04/2018 00:45:42	00:15:00	65.7	50.6	54.2	60.7	55.7	53.4	52.1
10/04/2018 01:00:42	00:15:00	65.3	49.6	53.8	60	55.8	52.8	51.1
10/04/2018 01:15:42	00:15:00	78.2	50.1	56.5	65.6	56.8	53	51.5
10/04/2018 01:30:42	00:15:00	68.9	49.4	53.4	61	54.8	52.2	50.8

10/04/2018 01:45:42	00:15:00	65.9	49.6	53.4	60	55.2	52.3	50.9
10/04/2018 02:00:42	00:15:00	71.1	49.1	53.9	61	56.6	52.1	50.4
10/04/2018 02:15:42	00:15:00	68.9	49.3	53.4	63.2	54.4	51.6	50.3
10/04/2018 02:30:42	00:15:00	66.5	50.1	53.4	60.5	54.5	52.4	51.1
10/04/2018 02:45:42	00:15:00	73.8	49.7	55.4	64.6	57.7	52.7	51.1
10/04/2018 03:00:42	00:15:00	70.4	50.1	54	62.3	55.2	52.5	51.1
10/04/2018 03:15:42	00:15:00	71.9	49.4	54.8	63	57.1	53	51.2
10/04/2018 03:30:42	00:15:00	71.4	49.7	53.7	60.6	55.7	52.2	50.9
10/04/2018 03:45:42	00:15:00	65.9	50.2	55	62.4	57.1	53.6	51.5
10/04/2018 04:00:42	00:15:00	76.7	50.2	59.8	71.2	62	54.5	51.5
10/04/2018 04:15:42	00:15:00	74.5	49.6	57.9	71.5	58.6	52.2	50.8
10/04/2018 04:30:42	00:15:00	78.9	50.6	60.7	73.8	59.4	55	52.2
10/04/2018 04:45:42	00:15:00	65.4	48.8	52.6	58.5	54.5	51.9	50
10/04/2018 05:00:42	00:15:00	64.2	49.3	52.5	59	54.2	51.4	50.1
10/04/2018 05:15:42	00:15:00	69.9	48.7	52.2	56.9	53.6	51.7	50
10/04/2018 05:30:42	00:15:00	69.2	49.2	52.9	59.2	54.4	51.9	50.4
10/04/2018 05:45:42	00:15:00	63.8	49.2	52.6	57.9	54.4	51.8	50.4
10/04/2018 06:00:42	00:15:00	64.2	48.8	53.1	59.8	54.8	52.1	50.6
10/04/2018 06:15:42	00:15:00	82.9	50.6	63	76.6	61.5	54.7	52.2
10/04/2018 06:30:42	00:15:00	70.4	51.9	55.8	63.1	57.8	54.4	52.9
10/04/2018 06:45:42	00:15:00	74.1	51.8	55.5	59.8	57.1	54.6	53.2
10/04/2018 07:00:42	00:15:00	73.6	52.1	56.3	62.5	58.1	55.3	53.7
10/04/2018 07:15:42	00:15:00	72.9	52.5	57	64.6	58.1	55.8	54.2
10/04/2018 07:30:42	00:15:00	80.9	53.4	60.3	70.9	60.5	56.7	54.9
10/04/2018 07:45:42	00:15:00	71.4	53.8	58.6	67.4	60.1	57.4	55.3
10/04/2018 08:00:42	00:15:00	74.5	54.1	62.5	67.6	65.9	59.3	56.3
10/04/2018 08:15:42	00:15:00	67.5	53.3	58.6	63.6	60.6	58	55.5
10/04/2018 08:30:42	00:15:00	68.3	55.9	61.2	65.5	63.6	60.3	58.5
10/04/2018 08:45:42	00:15:00	79	55.3	63.2	67.9	65.8	62.1	57.3
10/04/2018 09:00:42	00:15:00	77.5	57.2	65	68.8	67.4	64.4	62
10/04/2018 09:15:42	00:15:00	81.5	57.1	63.8	66.7	64.9	63.7	61.9
10/04/2018 09:30:42	00:15:00	72.3	59.8	63.8	67.8	64.9	63.5	62
10/04/2018 09:45:42	00:15:00	72.5	55.4	62.5	69.2	64.9	60.9	57.7
10/04/2018 10:00:42	00:15:00	73.7	54.1	58.9	66.6	61.1	57.3	55.4
10/04/2018 10:15:42	00:15:00	68.4	52.8	56.8	62.8	58.3	56	54.3
10/04/2018 10:30:42	00:15:00	68	53	56.7	62.1	58.3	56	54.5
10/04/2018 10:45:42	00:15:00	73.8	52.9	61.1	65.8	64	60.9	55.1
10/04/2018 11:00:42	00:15:00	71.1	55.6	63.2	66.4	64.7	63.2	59
10/04/2018 11:15:42	00:15:00	78.4	55	61.8	66.6	64	62	56.8
10/04/2018 11:30:42	00:15:00	68.7	55.5	61.4	65.2	63.9	61.2	56.7
10/04/2018 11:45:42	00:15:00	75.8	56	60.9	64.8	63.5	59.6	57.2
10/04/2018 12:15:42	00:15:00	68.9	56	61.1	65.8	63.9	59.2	57.2
10/04/2018 12:30:42	00:15:00	81.6	57.5	64.5	72.7	66.2	63	61.2
10/04/2018 12:45:42	00:15:00	71	53.5	57.8	63.9	59.7	56.8	55
10/04/2018 13:00:42	00:15:00	83.8	53.9	61.3	71.8	60.4	56.9	55.3
10/04/2018 13:15:42	00:15:00	74.2	54	57.5	61.8	58.9	56.9	55.3

10/04/2018 13:30:42	00:15:00	72.3	53.7	56.5	60.8	57.8	56.1	54.9
10/04/2018 13:45:42	00:15:00	75.8	53.5	61.9	67.8	65.6	58.6	55.3
10/04/2018 14:00:42	00:15:00	67.5	54.4	57.9	62.7	59.3	57.4	56.1
10/04/2018 14:15:42	00:15:00	69.9	53.7	58.1	64.3	59.9	57.2	55.3
10/04/2018 14:30:42	00:15:00	85.1	55.2	64	75.4	63.7	58.4	56.9
10/04/2018 14:45:42	00:15:00	85.5	53	59	65.6	59.7	56.8	55.2
10/04/2018 15:00:42	00:15:00	69.5	53.2	57.6	66.7	59.1	56.2	54.4
10/04/2018 15:15:42	00:15:00	75.4	54.1	58.7	68	60	56.9	55.4
10/04/2018 15:30:42	00:15:00	81	53.5	60.8	70	61.3	57.4	55.5
10/04/2018 15:45:42	00:15:00	68.6	53.4	57.7	63.1	59.6	56.9	55.3
10/04/2018 16:00:42	00:15:00	67.1	53.8	57.2	62.7	58.7	56.6	55.1
10/04/2018 16:15:42	00:15:00	74.2	53.6	58.1	66.1	59.6	56.7	55.1
10/04/2018 16:30:42	00:15:00	70.6	53.4	58.6	68.5	60.2	56.6	54.8
10/04/2018 16:45:42	00:15:00	74.4	52.9	57.2	64	59.1	56	54.3
10/04/2018 17:00:42	00:15:00	70.3	53	57.3	64.6	59.4	56.2	54.3
10/04/2018 17:15:42	00:15:00	69.7	52.5	56.4	63.8	58.1	55.4	54.1
10/04/2018 17:30:42	00:15:00	69.9	52.1	56.5	63.8	58.2	55.3	53.7
10/04/2018 17:45:42	00:15:00	72.5	52.4	56.4	62.7	58.4	55.2	53.9
10/04/2018 18:00:42	00:15:00	72.2	51.9	56.1	62.9	58	54.8	53.3
10/04/2018 18:15:42	00:15:00	72.8	52	56.8	66.5	57.8	54.7	53.3
10/04/2018 18:30:42	00:15:00	71.2	52.1	56.3	63.8	57.8	54.8	53.3
10/04/2018 18:45:42	00:15:00	66.2	51.7	55.3	62.2	56.9	54.5	53
10/04/2018 19:00:42	00:15:00	71.2	51.5	55.7	62.8	57.2	54.6	53
10/04/2018 19:15:42	00:15:00	67	51.1	55.9	63.4	57.5	54.8	53.1
10/04/2018 19:30:42	00:15:00	81.9	50.7	57.1	59.8	56.4	54.3	52.8
10/04/2018 19:45:42	00:15:00	72.2	51.9	56.1	65.6	57.1	54.2	52.9
10/04/2018 20:00:42	00:15:00	65.4	51.1	55.3	61.6	57.3	54.5	52.7
10/04/2018 20:15:42	00:15:00	74	50.8	55.2	61.6	55.9	53.7	52.2
10/04/2018 20:30:42	00:15:00	70.7	50.3	54.6	63.4	55.4	53	51.5
10/04/2018 20:45:42	00:15:00	73.4	49.8	54.9	64.8	56.6	52.7	51.1
10/04/2018 21:00:42	00:15:00	68.2	49.7	54.2	61.9	55.5	52.9	51.5
10/04/2018 21:15:42	00:15:00	71.9	50.1	54.3	60.5	55.8	53.5	51.9
10/04/2018 21:30:42	00:15:00	75.6	50.5	57	67.9	57.7	53.4	51.8
10/04/2018 21:45:42	00:15:00	69	50.1	54.3	60.3	55.8	53.6	52
10/04/2018 22:00:42	00:15:00	73	50.1	55.1	61.7	56.6	53.9	52.1
10/04/2018 22:15:42	00:15:00	68.2	51	55	61.4	56.5	54	52.5
10/04/2018 22:30:42	00:15:00	68.7	50.9	54.5	60.2	55.8	53.8	52.2
10/04/2018 22:45:42	00:15:00	62.9	51.4	55	60.3	56.9	54.3	52.9
10/04/2018 23:00:42	00:15:00	73.5	51.4	57.1	65.2	58.7	55.6	53.5
10/04/2018 23:15:42	00:15:00	74.4	50.8	55.8	64.3	56.9	53.9	52.3
10/04/2018 23:30:42	00:15:00	63.4	50.9	53.5	58.4	54.7	52.9	52
10/04/2018 23:45:42	00:15:00	73.4	50.3	54.3	60.9	55.8	53.3	52
11/04/2018 00:00:42	00:15:00	64.3	50.6	53.7	59.6	55.3	52.8	51.5
11/04/2018 00:15:42	00:15:00	67.8	49.8	53.8	62.3	55	52.5	51.1
11/04/2018 00:30:42	00:15:00	66.7	50.6	54.5	61.9	56.6	53.2	51.6
11/04/2018 00:45:42	00:15:00	66.3	49.6	53.8	60.6	55.5	52.7	51.2

11/04/2018 01:00:42	00:15:00	75.7	50.1	57.7	65.8	60.1	55.5	52.4
11/04/2018 01:15:42	00:15:00	80	49.9	55.8	63.9	57.3	53.4	51.5
11/04/2018 01:30:42	00:15:00	68.6	50.1	53.7	60.5	55.2	52.7	51.3
11/04/2018 01:45:42	00:15:00	72.1	49.8	53.9	60.7	54.9	52.8	51.4
11/04/2018 02:00:42	00:15:00	72.6	49.7	53.1	59.3	54.5	52.2	51
11/04/2018 02:15:42	00:15:00	71.1	49.7	54.3	61.9	56.1	52.8	51.1
11/04/2018 02:30:42	00:15:00	72.5	49.1	54	62.7	55.3	51.8	50.3
11/04/2018 02:45:42	00:15:00	77.5	49.2	54.9	64.3	55.9	51.8	50.4
11/04/2018 03:00:42	00:15:00	78.1	48.4	55.5	66.4	57.6	51.9	49.8
11/04/2018 03:15:42	00:15:00	67.6	49.2	53.8	61.8	55.7	52.3	50.9
11/04/2018 03:30:42	00:15:00	69.9	49.2	55.2	64.1	57.5	53	51.1
11/04/2018 03:45:42	00:15:00	68.6	49	52.3	60.6	53.3	51	49.9
11/04/2018 04:00:42	00:15:00	78.7	49.7	63	75.1	66.1	53.6	51.3
11/04/2018 04:15:42	00:15:00	79.2	49.2	57.5	68	58.6	53.5	51.1
11/04/2018 04:30:42	00:15:00	66.7	48.1	53.2	60.9	55.4	51.4	49.6
11/04/2018 04:45:42	00:15:00	72.8	48.8	53.8	63.8	55.1	51.2	49.8
11/04/2018 05:00:42	00:15:00	60	47.7	51.2	56.6	52.8	50.5	49.1
11/04/2018 05:15:42	00:15:00	63.9	47.9	51.3	58.2	52.9	50.4	49
11/04/2018 05:30:42	00:15:00	65.8	47.8	52.4	60.8	53.4	51.2	49.3
11/04/2018 05:45:42	00:15:00	66.4	48.4	52.9	60.2	54.7	51.7	49.8
11/04/2018 06:00:42	00:15:00	79	49.5	59.9	73.2	60	53.8	51.2
11/04/2018 06:15:42	00:15:00	66.5	49.6	53.9	60.9	55.8	52.7	51
11/04/2018 06:30:42	00:15:00	69.2	50.3	54.4	62.3	55.7	53.3	51.7
11/04/2018 06:45:42	00:15:00	73.3	50.2	58.4	68.4	59.4	54.1	51.8
11/04/2018 07:00:42	00:15:00	70.6	50.9	56.3	68	56.9	53.9	52.3
11/04/2018 07:15:42	00:15:00	79.6	51.4	55.9	62.2	56.9	54.3	52.7
11/04/2018 07:30:42	00:15:00	67.4	51.2	55.4	61.6	57	54.6	53
11/04/2018 07:45:42	00:15:00	73.9	52.1	60.7	69.7	63.4	56.8	54.8
11/04/2018 08:00:42	00:15:00	74.2	53.8	59.2	67.9	60.5	57.7	55.6
11/04/2018 08:15:42	00:15:00	78.3	53.4	58.7	64.6	59.8	57.4	55.3
11/04/2018 08:30:42	00:15:00	81.5	53.8	58	63.5	59.5	56.8	55.1
11/04/2018 08:45:42	00:15:00	69.5	53.5	57.5	63.6	59.5	56.7	55
11/04/2018 09:00:42	00:15:00	67.8	54.4	58	62.4	59.8	57.5	56
11/04/2018 09:15:42	00:15:00	78.4	54.6	58.4	64.1	59.8	57.5	55.9
11/04/2018 09:30:42	00:15:00	71.2	54.1	59.4	68.1	61.6	57.6	55.9
11/04/2018 09:45:42	00:15:00	78	53.7	61.4	72.5	63.5	57.3	55.5
11/04/2018 10:00:42	00:15:00	76.2	53.5	57.7	63.5	59.9	56.4	54.9
11/04/2018 10:15:42	00:15:00	75.7	52.7	58.1	67	58.9	56	54.4
11/04/2018 10:30:42	00:15:00	74.1	52	56.2	62.5	57.6	55.1	53.6
11/04/2018 10:45:42	00:15:00	73.9	52.5	56.1	61.4	57.6	55.3	53.8
11/04/2018 11:00:42	00:15:00	76.6	52	56.5	62.5	58.2	55.3	53.5
11/04/2018 11:15:42	00:15:00	73	53.8	57.5	63.6	59.3	56.6	55.1
11/04/2018 11:30:42	00:15:00	72.9	54.4	59.1	65.3	60.9	58.1	56.5
11/04/2018 11:45:42	00:15:00	81.6	54.2	62.1	73.8	63.7	57.5	55.9
11/04/2018 12:15:42	00:15:00	83.5	54.4	63.2	74.8	64.6	58.1	55.8
11/04/2018 12:30:42	00:15:00	79.2	54.2	58.4	64.2	60.4	57.2	55.6

11/04/2018 12:45:42	00:15:00	82.3	54.7	60.2	69.4	60.4	57.6	56.2
11/04/2018 13:00:42	00:15:00	84.3	54.6	61.2	71.5	60.4	57.5	56.1
11/04/2018 13:15:42	00:15:00	84.3	54.1	64.1	76.2	64.6	58.4	56
11/04/2018 13:30:42	00:15:00	77.7	54.8	62.9	72.3	65.5	60.5	58.9
11/04/2018 13:45:42	00:15:00	72	53.2	57.4	64.9	58.9	56.3	54.9
11/04/2018 14:00:42	00:15:00	66.6	53.6	57	61.9	58.8	56.4	55
11/04/2018 14:15:42	00:15:00	76.8	53.2	61.7	73.9	64.4	57.2	55.3
11/04/2018 14:30:42	00:15:00	66.2	53	57	62.5	58.5	56.5	55
11/04/2018 14:45:42	00:15:00	80.8	53.8	59.2	66.6	60.1	57.3	55.7
11/04/2018 15:00:42	00:15:00	74.7	54	59.4	66.7	61.5	57.8	56.2
11/04/2018 15:15:42	00:15:00	73.4	53.6	57.5	63.1	59.2	56.7	55.2
11/04/2018 15:30:42	00:15:00	81.4	54.1	61.6	72.1	62.4	57.4	55.5
11/04/2018 15:45:42	00:15:00	84	54.5	62.9	75	62.8	57.7	56
11/04/2018 16:00:42	00:15:00	74	53.9	58.3	65.7	59.5	57.1	55.3
11/04/2018 16:15:42	00:15:00	67.1	53.7	57.8	64.1	59.6	57	55.2
11/04/2018 16:30:42	00:15:00	69.4	53.6	57.5	63.9	58.9	56.6	55.2
11/04/2018 16:45:42	00:15:00	71.9	53.2	57.7	64.5	59.3	56.7	55.1
11/04/2018 17:00:42	00:15:00	66.9	52.7	56.3	61.5	58	55.7	54.1
11/04/2018 17:15:42	00:15:00	68.4	52.7	56.5	61.8	58.2	55.7	54.2
11/04/2018 17:30:42	00:15:00	80.1	52.8	57.4	65	58.5	55.8	54.2
11/04/2018 17:45:42	00:15:00	72.8	53.1	57.3	65.6	59	55.7	54.2
11/04/2018 18:00:42	00:15:00	65.3	52.1	55.4	60.1	56.8	54.8	53.5
11/04/2018 18:15:42	00:15:00	65.9	52.1	55.6	61.1	56.9	54.9	53.6
11/04/2018 18:30:42	00:15:00	69.5	52.4	56	62	57.7	55.2	53.7
11/04/2018 18:45:42	00:15:00	67.4	52.5	55.5	60.6	56.9	54.9	53.5
11/04/2018 19:00:42	00:15:00	75	51.8	57.3	66.1	59	55.3	53.5
11/04/2018 19:15:42	00:15:00	64.5	52	55.3	59.8	56.6	54.8	53.5
11/04/2018 19:30:42	00:15:00	75.1	52.4	55.7	62	57.1	54.8	53.4
11/04/2018 19:45:42	00:15:00	68.4	52	55.8	62.6	57.2	54.7	53.3
11/04/2018 20:00:42	00:15:00	71.3	51.3	55.4	65.1	56	53.9	52.5
11/04/2018 20:15:42	00:15:00	71.8	51	54.6	60.8	55.7	53.7	52.3
11/04/2018 20:30:42	00:15:00	70.6	51.4	55.7	63.7	57.6	54.2	52.6
11/04/2018 20:45:42	00:15:00	73	51.3	55.1	62.2	56.1	53.7	52.3
11/04/2018 21:00:42	00:15:00	62.1	51.2	54.1	58.7	55.7	53.6	52.2
11/04/2018 21:15:42	00:15:00	63.9	50.5	53.4	57.7	54.9	53	51.6
11/04/2018 21:30:42	00:15:00	68.5	50.9	54.6	61.5	56.3	53.4	52
11/04/2018 21:45:42	00:15:00	66.9	51	54.3	61.7	55.8	53.3	52
11/04/2018 22:00:42	00:15:00	61.8	50.5	53.8	58.2	55.4	53.3	52
11/04/2018 22:15:42	00:15:00	72.5	51.1	54.9	60.5	56.6	54	52.5
11/04/2018 22:30:42	00:15:00	69	51.5	55.1	61.8	56.9	53.9	52.5
11/04/2018 22:45:42	00:15:00	80.2	51.6	58.3	66.9	59.1	55.1	53.2
11/04/2018 23:00:42	00:15:00	80.9	51.8	58.5	67.4	61	55.6	53.4
11/04/2018 23:15:42	00:15:00	68.7	51.1	55.1	61.9	56.9	54	52.3
11/04/2018 23:30:42	00:15:00	76.4	50.9	59.6	73.7	59.6	54.2	52.3
11/04/2018 23:45:42	00:15:00	78.4	51.6	59.7	73.3	59.2	55.2	53.2
12/04/2018 00:00:42	00:15:00	80.2	51.1	60.2	71.6	62.7	54.3	52.4

12/04/2018 00:15:42	00:15:00	91.2	50.6	62.1	65.1	57	53.9	52.4
12/04/2018 00:30:42	00:15:00	69	51	56.2	63.1	58.7	54.8	53
12/04/2018 00:45:42	00:15:00	66.3	50.6	55.3	60.9	57.1	54.6	52.9
12/04/2018 01:00:42	00:15:00	68	50.5	56	62.7	58.2	54.9	52.5
12/04/2018 01:15:42	00:15:00	76.3	50.2	59.4	72.6	60.8	54.5	52.2
12/04/2018 01:30:42	00:15:00	75.6	49.9	55.2	63.3	57.2	53.4	51.5
12/04/2018 01:45:42	00:15:00	81.9	50.1	56	63.2	57.3	53.5	52.1
12/04/2018 02:00:42	00:15:00	71.5	51	55.8	64.7	57.3	54.1	52.4
12/04/2018 02:15:42	00:15:00	71.8	49.6	56.3	65.5	58.4	54.1	51.9
12/04/2018 02:30:42	00:15:00	75.8	49.6	58.9	71.5	59.6	53.2	51.3
12/04/2018 02:45:42	00:15:00	76.1	49.1	55.3	65.2	56.8	52.5	50.5
12/04/2018 03:00:42	00:15:00	66.8	49.2	53.4	63	55	51.7	50.3
12/04/2018 03:15:42	00:15:00	67.3	49.3	54.1	60.8	56.3	52.6	50.9
12/04/2018 03:30:42	00:15:00	73.6	48.6	59.1	71.7	60.1	53.4	50
12/04/2018 03:45:42	00:15:00	102.3	48.7	72.9	84.2	61.1	53.2	50.5
12/04/2018 04:00:42	00:15:00	70	48.9	56.1	66.7	58.5	53.5	51.2
12/04/2018 04:15:42	00:15:00	68.5	48.4	54.9	63.3	57.3	52.8	49.8
12/04/2018 04:30:42	00:15:00	76.5	48.5	59	73.5	57.5	52.2	50.2
12/04/2018 04:45:42	00:15:00	80.3	48.2	57.7	69.4	55.9	50.8	49.3
12/04/2018 05:00:42	00:15:00	69	48.6	52.4	61.3	53.4	50.6	49.3
12/04/2018 05:15:42	00:15:00	77.9	48.2	54	62.5	55.1	51.4	50
12/04/2018 05:30:42	00:15:00	66.3	48	52	59.6	53.6	50.7	49.3
12/04/2018 05:45:42	00:15:00	61.4	48.4	52.3	57.1	53.9	51.7	50.2
12/04/2018 06:00:42	00:15:00	65.8	48.7	52.4	57.7	54.2	51.6	50.2
12/04/2018 06:15:42	00:15:00	85.2	49.2	55.6	59.4	54.5	52	50.5
12/04/2018 06:30:42	00:15:00	70.8	50	54.5	62.7	56.4	52.7	51.2
12/04/2018 06:45:42	00:15:00	76.3	50.6	55.4	60.5	56.8	55	52.5
12/04/2018 07:00:42	00:15:00	73.1	51.3	55.7	63.1	56.9	54.5	52.8
12/04/2018 07:15:42	00:15:00	79.8	50.9	57.9	67.8	59.4	54.7	52.9
12/04/2018 07:30:42	00:15:00	79.2	51.3	57.9	67.1	57.8	54.7	53
12/04/2018 07:45:42	00:15:00	66.5	50.8	55.3	62.1	57.1	54.4	52.4
12/04/2018 08:00:42	00:15:00	75	52.2	57.1	65.8	58.4	55.6	54
12/04/2018 08:15:42	00:15:00	69.5	53.5	58.4	66.3	59.9	57.2	55.4
12/04/2018 08:30:42	00:15:00	68.7	54.7	58	61.6	59.7	57.7	55.9
12/04/2018 08:45:42	00:15:00	77	54.7	58.1	63.6	59.4	57.3	56
12/04/2018 09:00:42	00:15:00	79.1	53.8	57.8	62.8	59.3	56.9	55.3
12/04/2018 09:15:42	00:15:00	68.4	53.9	57.7	63.5	59.5	56.9	55.2
12/04/2018 09:30:42	00:15:00	69.5	53.4	58.6	66.2	61.3	56.9	54.8
12/04/2018 09:45:42	00:15:00	72.3	53.2	57.4	64.1	58.7	56.4	55
12/04/2018 10:00:42	00:15:00	71.1	53	56.7	63.7	57.9	55.9	54.4
12/04/2018 10:15:42	00:15:00	65.6	52.6	56.4	61.7	58.1	55.8	54.2
12/04/2018 10:30:42	00:15:00	73	52.4	56.7	64.5	58	55.5	53.8
12/04/2018 10:43:29	00:12:47	93.5	48.7	61.3	67.7	59.7	55.3	53.7
12/04/2018 10:45:02	00:00:36	94	94	94	94.9	94.9	94.5	94.1