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REPORT

of

INTERNAL SOUND LEVEL VALIDATION TESTS,

at

KIRKMANSHULME LANE,
GORTON,
MANCHESTER
M18 7BA

Date of Measurements : 24th – 25th April 2023

Date of Report: 9th June 2023

Prepared for: Countryside Properties (UK) Ltd

Report written by: Elizabeth Garritt BSc AMIOA

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1.0 Introduction

A new build residential development has been constructed on land off Kirkmanshulme Lane, Gorton. As part of the planning consent, validation tests of indoor sound levels are required. This report describes the results of these sound level validation tests.

2.0 Planning Condition on Sound Levels

Condition 22 of application reference 122160/FO/2018 calls for the development to be completed in accordance with the noise mitigation measures suggested in the submitted acoustic survey report.

> 22) a)The development hereby approved shall be completed in accordance with the revised Environmental Noise Study by Red Acoustics, referenced R1522-REP01-PB and dated 2 August 2019 stamped as received by the City Council, as Local Planning Authority, on the 13th August 2019, in relation to the acoustic treatment of the residential accommodation and external areas of the development hereby approved. The noise mitigation scheme hereby approved by the City Council as local planning authority, shall be completed before any of the dwelling units are occupied.
>
> b) Prior to the first occupation of the development hereby approved, a verification report will be required to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved scheme. The report shall also undertake post completion testing to confirm that the internal noise criteria has been met and non-conformities with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the internal noise criteria. The approved scheme shall then be implemented prior to the first occupation of the accommodation.
>
> Reason - In order to protect the future occupants of the residential accommodation from existing noise sources in the vicinity of the application site pursuant to policies SP1 and DM1 of the Core Strategy (2007) and saved policy DC26 of the Unitary Development Plan for the City of Manchester (1995).

Section b) of the above Condition calls for post completion sound validation tests to quantify the resulting internal sound levels. S & D Garritt Ltd have been employed to undertake the sound validation tests.

The report R1522-REP01-PB references on page 9 internal noise criteria as stipulated in BS 8233:2014 as being the internal noise targets agreed with the Local Environmental Health Department:

Table 3.2: BS8223:2014 Design Targets

Space	$L_{Aeq,16hr}$ (07:00 - 23:00)	$L_{Aeq,8hr}$ (23:00 - 07:00)	L_{Amax}
Living Room & Kitchen	35dB	-	-
Dining Room & Study	40dB	-	-
Bedroom	35dB	30dB	≤45dB
Garden & Patios	≤55dB	-	-

2.1 BS 8233: 2014

BS 8233 provides guidance on interior sound levels inside various building interiors caused by external sources of an anonymous nature, for example flowing road traffic. It is recommended that the internal ambient sound levels in dwellings do not exceed:

Living rooms	35 dB LA_{eq}	from 07.00-23.00
Dining rooms	40 dB LA_{eq}	from 07.00-23.00
Bedrooms	35 dB LA_{eq}	from 07.00-23.00
	30 dB LA_{eq}	from 23.00-07.00
Gardens	50 dB LA_{eq}	is the desirable limit
	55 dB LA_{eq}	is the upper guideline value.

The above sound limits are described in BS 8233 as applying to "steady external noise sources". A note in paragraph 7.7.1 of the same document states 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."

2.2 World Health Organisation: 2000

Guidance from the WHO gives additional guidance to BS 8233 on the interior sound levels in bedrooms at which sleep disturbance can be expected to occur:

Bedrooms	30 dB LA_{eq} }	to avoid sleep
	45 dB LA_{max}}	disturbance

The guidance on LA_{max} is usually intended to apply to sound from regular and typical events only. The definition of 'regular and typical' is open to some interpretation and depends on the context and sources being considered.

3.0 Test Methodology

The methodology for the sound validation tests was discussed and agreed in advance with Rebecca Twigg in the Environmental Health Department at Manchester City Council.

Under ideal circumstances we would undertake validation tests over a period of a full day and night to allow for a 16 hour and 8 hour respective measurement however as the site is an operational building site this was not possible. Instead it was agreed that short duration, attended measurements would be performed during the late afternoon to take measurements of daytime road traffic sound and that unattended monitoring equipment would then be installed in a bedroom to measure evening, night time and morning sound levels, to include a second period of peak traffic. It was agreed to take these measurements during an evening when the Speedway was hosting a full event. This was considered to represent the reasonable worst case scenario.

3.1 Test Plots

The scheme of validation tests in houses (test plots in apartments to be confirmed) initially agreed with MCC is given below

Plot No	Daytime validation tests	Night time validation tests
242	Kitchen / living room and bedroom overlooking Kirkmanshulme Lane	Bedroom overlooking Kirkmanshulme Lane
222	Kitchen / living room and bedroom overlooking Kirkmanshulme Lane	Bedroom overlooking Kirkmanshulme Lane
205	Kitchen / living room and bedroom facing towards Speedway	Bedroom facing towards Speedway
198	Kitchen / living room and bedroom facing towards Kirkmanshulme Lane	Bedroom facing towards Kirkmanshulme Lane

Unfortunately the stages of development on site and the seasonality of the events at the Speedway meant that these plots were not available for the tests. Upon commencement of the 2023 Speedway season, and upon completion of properties, the first opportunity was taken to undertake test work.

A limited number of plots were available for the tests, with only five being complete enough for the tests to be undertaken on the test date, 24th April 2023. These available plots are shown in the plan below.

Plot 202 was chosen for use, with it being very close to the boundary with the Speedway, and also Plot 189, with it being a 2.5 storey property and the master bedroom being contained within the apex of the roof. These were considered to be the potentially worst affected plots out of those available.

Daytime sound levels were taken using attended measurements in the living rooms of both plots, the master bedroom of plot 189 and the front bedroom of plot 202. It is noted that the front bedroom of plot 202 has a direct line of sight over the boundary fence to the Speedway circuit.

We understand that the plots are fitted with continuous flow PIV ventilation systems which were installed and operating in the test plots. Trickle vents were not fitted.

All sound levels were measured with two calibrated Type 1 sound level meters, full details of which are given in Appendix 1 of this report.

Measurements were taken at 15 minute intervals to allow for observations to be made as to the specific noise levels during times of peak traffic and also before, during and after the Speedway event.

Unfortunately the morning measurements were interrupted from around 06.30 as site was opened unexpectedly. The audio recordings show that people entered into plot 189 to begin work from around 07.00, machinery and voices can clearly be heard and so regrettably the daytime data collected in plot 189 during the morning of the 25th April cannot be used. Plot 202, being complete and away from the active part of the building site, appears to have been less influenced by the opening of the site, so that the results collected in plot 202 can be used until 09.45, after which time there is significant contribution from site noise. Since there is a limited number of hours of daytime sound data that is not influenced by peak traffic or the Speedway event it would be imprecise to attempt to calculate how the noise levels average out across a full 16 hour daytime period. This report therefore provides numerical results for the periods obtained and the calculation of overall sound levels for the time available.

The averaging time over which ambient sound levels should be assessed is open to some interpretation. BS 8233 gives ambient sound level requirements expressed over 16 hour daytime and eight hour night time periods. If sound levels are averaged across these full day and night times then shorter duration events create less of a 'peak' and by their nature become averaged out over a longer period of time.

When undertaking acoustic surveys in support of planning applications, it is common to consider ambient sound levels over shorter durations to provide a greater number of data points and provide protection to amenity from shorter duration events.

The planning condition directly references an acoustic report that contains a table of requirements from BS 8233 with the sound levels averaged over the full daytime and night time periods, being dB $LA_{eq,16hour}$ during the day and dB $LA_{eq,8hour}$ at night.

It follows that compliance with this specific planning condition should include ambient sound levels averaged over the 16 hour daytime and eight hour night time period. Measurements over these periods was not possible as part of this exercise because of activity on site, which could not be halted for the required full 24-hour period. Time average values over the full duration of our data survey have been included later in this report.

The discussion on time averaging periods is of importance because use of the Speedway causes a significantly higher internal sound levels, but only occurs for approximately 2 hours. This means that compliance with the required internal sound levels in the most affected plot depends on the time averaging period used.

3.2 Room Reverberation

The rooms used were unfurnished. Laminate flooring had been fitted in the kitchen / living room of plot 189 and chipboard flooring in the master bedroom. Plot 202 had no floor finishes fitted, with bare concrete floors instead.

Reverberation tests were undertaken in all of the rooms used for validation testing so that corrections could be applied to take account of room furnishings and expected sound levels when occupied.

The formula for applying reverberation time corrections in unfurnished dwellings is well recognised, being 10 x log (RT / 0.5) for the correction of a reverberant sound field. This is commonly used in pre-completion sound testing between dwellings for compliance with the Building Regulations.

The difficulty in applying this entire correction to these validation test results is that the sound source is an outdoor variable source with varying incident gradients on the building elevation and the internal sound field cannot be assumed to be entirely diffuse. This means that the above-mentioned method of applying corrections may be overly favourable, not sufficiently taking into account the direct, non-diffuse field from the building elevation. For these reasons, it has been concluded that a sensible engineered estimation for the correction needed to measured sound levels is to apply half the correction that the above formula yields. This has been undertaken in third octave frequency bands to maximise accuracy.

4.0 Indoor Test Results

4.1 Plot 189 Living Room

After correcting for reverberation as discussed in section 3.0 the results of the attended measurements taken in the living room of plot 198 are given in the table below:

Start		Stop				
Date	Time	Date	Time		dB LA_{eq}	dB LA_{max}
24/04/2023	16:00:00	24/04/2023	16:15:00		21.9	39.2
24/04/2023	16:15:00	24/04/2023	16:30:00		21.2	39.2
24/04/2023	16:30:00	24/04/2023	16:45:00		20.1	37.6

The requirement of the Condition is not to exceed 35 dB $LA_{eq,16hour}$.

4.2 Plot 189 Master Bedroom

Daytime

The unattended survey contained 24 daytime periods of 15 minute measurements, the full results are contained in the appendix to this report. The overall time averaged sound level across the measured daytime measurement period of 6 hours from 17.00 to 23.00 on 24/04/23, which includes the time that the Speedway was operating, was **24.3 dB $LA_{eq,6hour}$.** The requirement of the Condition is not to exceed 35 dB $LA_{eq,16hour}$. Sound levels were within the 35 dB LA_{eq} requirement for all sample periods including when the Speedway was in operation.

Night time

There were a total of 32 15 minute periods for night time measurements, representing a full night time, between 23.00 on 24/04/23 and 07.00 on 25/04/23. The overall time averaged sound level across the full night time measurement period was **17.5 dB $LA_{eq,8hour}$.** The requirement of the Condition is not to exceed 30 dB $LA_{eq,8hour}$. Sound levels were within the 30 dB LA_{eq} requirement for all sample periods

Maximum sound levels are also an important consideration in the assessment of night time noise. The requirement of the Condition is not to exceed 45 dB LA_{max}, it is generally accepted that this is to apply to 'regular and typical' events. Of the 32 15 minute night time periods in Plot 189 the 45 dB LA_{max} threshold is exceeded in 7 periods. It should be borne in mind that the plots used are situated away from the main roads and that the areas of site around the plots were closed b so that there was no through traffic directly affecting the plot. Many of the more 'regular and typical' events that are often a cause for concern when considering night time maxima, such as noise from the passage of traffic, buses, HGVs, trains etc are not likely to be a concern in this particular situation, unlike may have been the case if we were testing houses directly overlooking Kirkmanshulme Lane. Whilst the precise cause of the measured maxima can not be confirmed from the data and the audio recordings, the maxima are quick, sharp peaks and the recordings subjectively sound similar to the type of noises that may be associated with the new build structure itself (knocks, cracks etc).

4.3 Plot 202 Living Room

After correcting for reverberation the results of the attended measurements taken in the living room of plot 202 are given in the table below:

Start		Stop				
Date	Time	Date	Time		dB LA_{eq}	dB LA_{max}
24/04/2023	15:45:00	24/04/2023	16:00:00		19.8	36.4
24/04/2023	16:00:00	24/04/2023	16:15:00		20.2	42.3
24/04/2023	16:15:00	24/04/2023	16:30:00		19.7	39.7

The requirement of the Condition is not to exceed 35 dB $LA_{eq,16hour}$.

4.4 Plot 202 Front Bedroom

Daytime

The unattended survey contained 36 daytime periods of 15 minute measurements, again the full results are contained in the appendix to this report. The overall time averaged sound level across the measured daytime measurement period of 9 hours from 16.45 to 23.00 on 24/04/23 (which includes the time that the Speedway was operating) and also 07.00 to 09.45 on 25/04/23 was **29.6 dB $LA_{eq,9hour}$**. The requirement of the Condition is not to exceed 35 dB $LA_{eq,16hour}$. Sound levels were within the 35 dB LA_{eq} requirement for 31 of 36 sample periods, the 5 periods in which the requirement is exceeded are during the Speedway event, at which time the $LA_{eq,15min}$ measures up to 37.0 dB.

Night time

There were a total of 32 15 minute periods for night time measurements, representing a full night time, between 23.00 on 24/04/23 and 07.00 on 25/04/23. Sound levels were within the 30 dB LA_{eq} requirement for all sample periods. The overall time averaged sound level across the full night time measurement period was **20.8 dB $LA_{eq,8hour}$**. The requirement of the Condition is not to exceed 30 dB $LA_{eq,8hour}$.

Of the 32 15 minute night time periods in Plot 202 the 45 dB LA_{max} threshold is exceeded in 7 periods. Similarly to as discussed in section 4.2 these maxima are short, sharp maxima which are not typical of the type of 'regular and typical' events that are of usual concern. The site was closed for through traffic and plot 202 is also situated at the end of a cul-de-sac making it unlikely that the maxima would be caused by

traffic. It is again possible that the maxima measured may have been caused by the new build structure itself.

4.5 Evaluation of Results

Based on the best data available to us the results show that the overall daytime sound levels are likely to be in numerical compliance with the requirements of the Planning Condition. There are some exceedances in the night time maxima however these do not appear to be regular and typical. It is noted that in the short duration in which a Speedway event is being held that the sound levels do exceed the 35 dB LA_{eq} threshold by a small margin for a relatively short period of time. It is reminded again that the Condition does require an overall 16 hour compliance, which would seem to be comfortably achieved, however no comment can be made as to whether the sound levels caused by the Speedway are acceptable, or have detrimental impact or negative affect on the amenity of the residents.

APPENDIX 1 – EQUIPMENT AND QUALIFICATIONS

S & D Garritt Ltd are members of the Association of Noise Consultants (ANC). All work related to this report was undertaken by Elizabeth Garritt and David Garritt.

Elizabeth Garritt has been an associate member of the Institute of Acoustics since 2008 and holds an honours degree in Biomedical Science with a further post graduate diploma in Acoustics and Noise Control as issued by the Institute of Acoustics.

David Garritt has been a full member of the Institute of Acoustics since 2005 and holds an honours degree in Electronic and Computer Systems Engineering. David taught acoustics at post graduate level on a part time basis between 2010 - 2020. David sits on the ANC Communications and PR Committee.

The equipment used during the site visits is shown in the table below. The sound level meter was calibrated before and after use; no drift was apparent.

Equipment Description	Type number	Manufacturer	Date of expiration of Calibration	Calibration Certificate Number
Sound Level Meter	XL2 TA s/n A2A-10019-EO	NTi Audio	14.08.2024	178637
Microphone	MK 224 s/n 213144A	Cirrus Research	14.08.2024	178634
Sound Level Meter	XL2 TA s/n A2A-12981-EO	NTi Audio	12.05.2023	2022-0504
Microphone	4189 s/n 2008903	Bruel & Kjaer	12.05.2023	2022-0505

APPENDIX 2 –FULL RESULTS

Plot 189 dBA Results

Start		Stop				
Date	Time	Date	Time		dB LA_{eq}	dB LA_{max}
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]			
24/04/2023	15:45:00	24/04/2023	16:00:00		51.8	85.9
24/04/2023	16:00:00	24/04/2023	16:15:00		21.9	39.2
24/04/2023	16:15:00	24/04/2023	16:30:00		21.2	39.2
24/04/2023	16:30:00	24/04/2023	16:45:00		20.1	37.6

Start		Stop				
Date	Time	Date	Time			
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]		dB LA_{eq}	dB LA_{max}
24/04/2023	17:00:00	24/04/2023	17:15:00		21.6	41.4
24/04/2023	17:15:00	24/04/2023	17:30:00		22.6	40.1
24/04/2023	17:30:00	24/04/2023	17:45:00		20.4	37.9
24/04/2023	17:45:00	24/04/2023	18:00:00		19.7	35.4
24/04/2023	18:00:00	24/04/2023	18:15:00		21.6	37.7
24/04/2023	18:15:00	24/04/2023	18:30:00		20.3	42.6
24/04/2023	18:30:00	24/04/2023	18:45:00		19.8	36.4
24/04/2023	18:45:00	24/04/2023	19:00:00		19.0	33.7
24/04/2023	19:00:00	24/04/2023	19:15:00		20.7	35.8
24/04/2023	19:15:00	24/04/2023	19:30:00		19.1	39.6
24/04/2023	19:30:00	24/04/2023	19:45:00		28.0	45.8
24/04/2023	19:45:00	24/04/2023	20:00:00		28.6	46.0
24/04/2023	20:00:00	24/04/2023	20:15:00		25.9	44.3
24/04/2023	20:15:00	24/04/2023	20:30:00		29.3	48.0
24/04/2023	20:30:00	24/04/2023	20:45:00		25.0	44.4
24/04/2023	20:45:00	24/04/2023	21:00:00		29.6	49.2
24/04/2023	21:00:00	24/04/2023	21:15:00		29.0	48.1
24/04/2023	21:15:00	24/04/2023	21:30:00		24.6	41.6
24/04/2023	21:30:00	24/04/2023	21:45:00		18.2	29.6
24/04/2023	21:45:00	24/04/2023	22:00:00		17.7	32.2
24/04/2023	22:00:00	24/04/2023	22:15:00		19.8	39.6
24/04/2023	22:15:00	24/04/2023	22:30:00		18.5	29.8
24/04/2023	22:30:00	24/04/2023	22:45:00		17.4	34.7
24/04/2023	22:45:00	24/04/2023	23:00:00		17.2	35.3
24/04/2023	23:00:00	24/04/2023	23:15:00		16.8	24.7
24/04/2023	23:15:00	24/04/2023	23:30:00		16.8	31.7

24/04/2023	23:30:00	24/04/2023	23:45:00		16.5	30.9
24/04/2023	23:45:00	25/04/2023	00:00:00		16.7	29.9
25/04/2023	00:00:00	25/04/2023	00:15:00		16.7	28.6
25/04/2023	00:15:00	25/04/2023	00:30:00		17.5	34.3
25/04/2023	00:30:00	25/04/2023	00:45:00		17.2	45.1
25/04/2023	00:45:00	25/04/2023	01:00:00		16.6	29.2
25/04/2023	01:00:00	25/04/2023	01:15:00		16.4	25.1
25/04/2023	01:15:00	25/04/2023	01:30:00		17.5	45.7
25/04/2023	01:30:00	25/04/2023	01:45:00		16.5	34.7
25/04/2023	01:45:00	25/04/2023	02:00:00		16.4	28.6
25/04/2023	02:00:00	25/04/2023	02:15:00		16.5	36.4
25/04/2023	02:15:00	25/04/2023	02:30:00		16.4	26.8
25/04/2023	02:30:00	25/04/2023	02:45:00		16.4	25.2
25/04/2023	02:45:00	25/04/2023	03:00:00		16.3	26.7
25/04/2023	03:00:00	25/04/2023	03:15:00		17.3	43.1
25/04/2023	03:15:00	25/04/2023	03:30:00		16.4	32.6
25/04/2023	03:30:00	25/04/2023	03:45:00		16.4	27.3
25/04/2023	03:45:00	25/04/2023	04:00:00		16.9	41.6
25/04/2023	04:00:00	25/04/2023	04:15:00		16.6	32.0
25/04/2023	04:15:00	25/04/2023	04:30:00		16.8	26.2
25/04/2023	04:30:00	25/04/2023	04:45:00		20.1	53.3
25/04/2023	04:45:00	25/04/2023	05:00:00		19.3	51.5
25/04/2023	05:00:00	25/04/2023	05:15:00		17.2	31.0
25/04/2023	05:15:00	25/04/2023	05:30:00		17.6	38.1
25/04/2023	05:30:00	25/04/2023	05:45:00		18.0	28.2
25/04/2023	05:45:00	25/04/2023	06:00:00		18.2	38.0
25/04/2023	06:00:00	25/04/2023	06:15:00		19.0	41.0
25/04/2023	06:15:00	25/04/2023	06:30:00		19.8	37.0
25/04/2023	06:30:00	25/04/2023	06:45:00		19.7	41.0
25/04/2023	06:45:00	25/04/2023	07:00:00		19.3	39.2

Plot 189 LEq Spectra

Start		Stop		LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	15:45:00	24/04/2023	16:00:00	52.7	42.6	44.5	52.9	44.6	45.2	44.6	36.5	46.4	45.1	47.6	41.9	41.7	44.2	45.8	46.1	44.1	41.0	37.4	34.3	32.2	32.3	29.9	28.0	25.3	23.5	21.8
24/04/2023	16:00:00	24/04/2023	16:15:00	32.1	22.9	25.6	31.6	23.5	18.8	24.9	15.9	17.4	16.0	15.8	13.9	13.0	13.5	14.7	12.7	14.1	11.4	7.7	8.0	4.2	3.8	4.5	4.9	5.0	5.7	5.5
24/04/2023	16:15:00	24/04/2023	16:30:00	32.4	23.6	24.2	29.3	20.7	15.2	14.7	11.3	16.0	14.4	14.0	10.3	8.2	10.7	14.0	12.2	13.9	12.9	8.7	5.7	4.1	3.8	4.5	4.9	5.0	5.7	5.5
24/04/2023	16:30:00	24/04/2023	16:45:00	32.2	24.0	23.8	29.0	20.2	14.2	14.2	9.9	15.9	16.8	18.1	11.2	9.6	9.3	11.6	10.4	11.9	9.9	6.2	4.3	3.6	3.6	4.5	4.9	5.0	5.7	5.6

Start		Stop		LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	17:00:00	24/04/2023	17:15:00	37.6	37.7	32.1	33.0	33.8	26.2	17.3	16.3	26.5	22.7	20.4	17.0	14.6	11.7	8.8	7.1	6.4	4.8	4.8	4.6	4.9	5.2	6.1	6.3	6.6	6.9	6.6
24/04/2023	17:15:00	24/04/2023	17:30:00	34.6	34.8	30.4	31.8	32.4	24.8	15.6	16.0	27.8	26.3	23.1	19.0	15.0	10.9	7.8	6.6	6.0	4.1	3.8	4.1	4.6	5.1	6.1	6.3	6.7	6.8	6.6
24/04/2023	17:30:00	24/04/2023	17:45:00	34.0	33.8	29.2	30.0	29.1	23.2	13.7	13.9	24.3	22.6	20.3	16.1	11.9	8.8	5.6	5.1	4.9	3.4	3.4	3.8	4.6	5.1	6.1	6.3	6.7	6.8	6.6
24/04/2023	17:45:00	24/04/2023	18:00:00	35.5	34.1	31.0	30.8	30.5	24.1	14.0	14.1	24.7	20.2	16.6	13.7	11.3	8.6	5.6	5.0	5.0	3.6	3.5	3.9	4.6	5.1	6.1	6.3	6.7	6.8	6.6
24/04/2023	18:00:00	24/04/2023	18:15:00	34.6	33.8	30.0	30.9	30.9	24.8	14.3	14.2	27.4	25.0	21.6	17.4	12.5	8.8	5.6	5.2	5.1	3.4	3.3	3.8	4.5	5.0	6.1	6.3	6.7	6.8	6.6
24/04/2023	18:15:00	24/04/2023	18:30:00	34.5	35.2	30.7	30.3	30.5	25.0	14.5	14.6	24.2	21.3	18.1	15.1	11.9	9.8	7.2	6.6	6.3	4.4	4.4	4.5	4.8	5.2	6.1	6.3	6.7	6.8	6.6
24/04/2023	18:30:00	24/04/2023	18:45:00	34.3	34.8	30.3	30.4	29.1	23.6	13.8	14.1	23.4	18.7	16.8	14.1	12.5	9.9	7.5	6.8	6.2	4.6	4.2	4.2	4.7	5.1	6.1	6.3	6.7	6.8	6.6
24/04/2023	18:45:00	24/04/2023	19:00:00	33.8	33.3	29.3	29.7	31.7	24.8	13.5	13.6	21.9	17.1	15.0	12.4	10.1	8.1	5.7	5.3	5.1	3.5	3.4	3.8	4.5	5.0	6.1	6.3	6.7	6.8	6.6
24/04/2023	19:00:00	24/04/2023	19:15:00	34.0	32.6	29.9	30.3	30.1	23.4	13.4	17.2	28.6	22.5	16.5	13.2	11.3	8.1	5.7	5.0	4.8	3.4	3.4	3.8	4.5	5.0	6.1	6.3	6.6	6.9	6.6
24/04/2023	19:15:00	24/04/2023	19:30:00	33.3	31.5	28.1	28.3	28.9	21.7	14.0	16.5	23.1	17.2	14.9	12.0	10.4	8.3	6.6	5.9	5.1	3.8	3.6	3.9	4.6	5.0	6.1	6.3	6.6	6.9	6.6
24/04/2023	19:30:00	24/04/2023	19:45:00	34.2	32.1	28.3	29.3	30.2	31.4	18.5	19.2	37.4	28.5	24.8	22.1	24.2	20.0	16.4	12.6	7.8	5.5	5.6	4.9	4.9	5.1	6.0	6.3	6.6	6.9	6.5
24/04/2023	19:45:00	24/04/2023	20:00:00	34.1	31.3	27.2	28.5	31.5	33.0	19.1	18.9	38.2	28.7	25.3	22.5	25.2	21.1	16.8	12.6	7.9	5.5	5.2	5.1	5.1	5.1	6.0	6.2	6.6	6.9	6.5
24/04/2023	20:00:00	24/04/2023	20:15:00	32.5	31.4	27.9	28.8	32.1	30.3	18.1	18.7	34.9	25.9	22.3	20.0	22.0	18.3	14.0	10.4	6.6	4.6	4.5	4.4	4.8	5.1	6.0	6.2	6.6	6.9	6.5
24/04/2023	20:15:00	24/04/2023	20:30:00	31.8	30.1	29.1	29.0	32.2	33.2	19.5	20.1	38.7	28.8	25.5	22.5	26.2	22.6	18.5	14.5	8.7	6.1	5.9	5.5	5.1	5.1	6.0	6.2	6.6	6.9	6.5
24/04/2023	20:30:00	24/04/2023	20:45:00	32.6	31.6	28.2	27.9	31.9	29.5	16.0	18.0	33.8	24.9	20.7	19.3	21.4	17.2	13.0	9.7	5.8	4.1	4.2	4.2	4.7	5.0	6.0	6.2	6.6	6.9	6.5
24/04/2023	20:45:00	24/04/2023	21:00:00	32.5	34.4	29.8	30.8	35.0	33.4	20.2	21.5	38.3	28.7	25.3	23.2	27.3	23.6	19.5	15.9	9.6	6.9	6.4	5.6	5.1	5.1	6.0	6.2	6.6	6.9	6.5
24/04/2023	21:00:00	24/04/2023	21:15:00	31.9	31.4	27.9	28.8	31.5	32.3	18.4	18.4	38.1	27.7	24.9	21.8	26.5	22.9	18.6	14.0	8.6	6.0	5.8	5.2	5.1	5.1	6.0	6.2	6.6	6.9	6.5
24/04/2023	21:15:00	24/04/2023	21:30:00	35.3	34.9	30.1	30.8	31.1	27.9	15.4	15.9	34.0	23.9	20.3	17.4	19.4	16.6	13.5	10.4	5.8	3.9	3.9	4.1	4.6	5.0	6.0	6.3	6.6	6.9	6.5
24/04/2023	21:30:00	24/04/2023	21:45:00	33.5	32.1	27.7	33.0	34.1	20.0	10.8	12.5	18.7	14.5	12.6	10.5	7.9	6.2	4.1	3.8	3.6	2.8	3.3	3.6	4.4	5.0	5.9	6.2	6.6	6.9	6.5
24/04/2023	21:45:00	24/04/2023	22:00:00	31.2	29.8	26.8	30.0	30.4	20.3	10.8	10.0	18.0	14.0	12.1	9.4	7.8	6.2	3.8	3.3	3.3	2.6	2.9	3.6	4.4	5.0	5.9	6.3	6.6	6.9	6.5
24/04/2023	22:00:00	24/04/2023	22:15:00	31.5	30.3	29.0	29.0	29.6	22.9	13.3	14.6	23.6	20.2	17.0	15.8	13.5	10.4	6.3	4.1	3.7	2.8	3.1	3.7	4.5	5.0	5.9	6.2	6.6	6.8	6.5
24/04/2023	22:15:00	24/04/2023	22:30:00	31.3	29.9	28.1	28.1	37.4	25.4	11.2	11.1	19.8	14.5	11.9	9.2	6.6	4.8	3.1	3.0	3.0	2.5	2.9	3.6	4.4	5.0	5.9	6.3	6.6	6.8	6.5
24/04/2023	22:30:00	24/04/2023	22:45:00	30.2	27.8	25.6	25.0	24.4	18.6	9.7	9.1	18.7	13.8	11.8	9.5	6.9	4.8	3.0	2.8	2.9	2.5	3.0	3.6	4.4	5.0	5.9	6.2	6.6	6.8	6.5
24/04/2023	22:45:00	24/04/2023	23:00:00	30.1	28.7	25.5	24.9	24.5	18.3	8.9	9.0	17.4	12.6	10.3	8.5	6.7	4.9	2.8	2.6	2.6	2.4	2.9	3.7	4.6	5.1	5.9	6.3	6.6	6.8	6.5
24/04/2023	23:00:00	24/04/2023	23:15:00	30.4	27.8	24.2	24.2	24.1	18.0	7.9	6.9	15.9	11.8	9.4	6.7	4.4	3.3	1.8	1.9	2.2	2.2	2.8	3.5	4.4	5.0	5.9	6.3	6.6	6.8	6.5
24/04/2023	23:15:00	24/04/2023	23:30:00	30.6	27.3	23.9	23.8	24.0	18.3	8.2	6.6	15.5	11.2	8.8	7.5	5.0	3.4	2.0	1.9	2.0	2.1	2.7	3.5	4.4	5.0	5.9	6.2	6.6	6.8	6.5
24/04/2023	23:30:00	24/04/2023	23:45:00	29.9	25.8	23.5	23.0	22.4	16.3	7.1	5.5	13.0	9.3	7.3	5.1	3.4	2.5	1.3	1.5	1.8	2.0	2.7	3.5	4.4	5.0	5.9	6.2	6.6	6.8	6.5
24/04/2023	23:45:00	25/04/2023	00:00:00	31.6	28.7	24.9	23.9	21.8	15.5	7.4	6.0	14.7	10.4	8.6	6.8	5.6	3.7	2.2	2.0	2.1	2.1	2.7	3.5	4.4	5.0	5.9	6.2	6.6	6.8	6.5

25/04/2023	00:00:00	25/04/2023	00:15:00	30.3	29.0	21.5	21.1	20.3	14.8	9.0	8.2	15.8	10.4	8.2	6.1	5.3	3.7	1.9	1.8	1.9	2.0	2.7	3.5	4.4	5.0	5.9	6.2	6.6	6.8	6.5
25/04/2023	00:15:00	25/04/2023	00:30:00	30.0	25.2	21.3	23.5	26.4	21.2	11.7	11.8	20.7	15.0	11.9	8.6	6.2	4.0	1.8	1.6	1.9	2.0	2.7	3.5	4.4	5.0	5.9	6.2	6.6	6.8	6.5
25/04/2023	00:30:00	25/04/2023	00:45:00	29.5	25.7	20.4	19.5	18.3	15.2	7.0	6.9	13.2	9.1	7.8	5.3	4.4	3.5	2.9	3.4	4.0	5.3	4.9	4.5	4.9	5.3	5.9	6.3	6.6	6.9	6.5
25/04/2023	00:45:00	25/04/2023	01:00:00	29.4	24.7	20.1	20.6	17.7	14.1	6.2	6.6	13.1	9.3	8.1	5.7	4.6	3.3	2.2	2.0	2.2	2.1	2.7	3.5	4.4	5.0	5.8	6.2	6.6	6.9	6.5
25/04/2023	01:00:00	25/04/2023	01:15:00	29.1	24.8	19.8	19.1	18.7	14.1	5.4	6.3	12.1	8.4	7.1	4.6	3.2	2.5	1.5	1.5	1.9	2.1	2.8	3.5	4.4	5.0	5.8	6.2	6.6	6.9	6.5
25/04/2023	01:15:00	25/04/2023	01:30:00	22.5	22.6	21.6	19.5	18.8	12.8	5.1	6.6	14.1	10.6	8.7	6.9	6.3	4.7	3.9	4.5	4.2	4.3	5.6	5.1	5.1	5.4	6.0	6.3	6.6	6.9	6.5
25/04/2023	01:30:00	25/04/2023	01:45:00	22.5	24.2	21.8	20.1	18.1	13.7	5.7	5.1	11.7	8.6	7.5	5.8	4.1	2.8	2.3	1.8	1.9	2.1	2.8	3.6	4.5	5.0	5.9	6.2	6.6	6.9	6.5
25/04/2023	01:45:00	25/04/2023	02:00:00	20.8	22.0	20.6	20.0	19.3	16.2	6.5	6.6	13.7	9.1	7.8	5.2	3.3	2.2	1.3	1.2	1.6	1.9	2.6	3.5	4.4	5.0	5.8	6.2	6.6	6.9	6.5
25/04/2023	02:00:00	25/04/2023	02:15:00	20.3	21.7	22.5	20.5	18.2	14.7	5.0	5.1	12.9	10.2	7.7	5.6	4.3	3.0	1.8	1.8	1.7	2.2	2.7	3.5	4.4	5.0	5.9	6.2	6.6	6.9	6.5
25/04/2023	02:15:00	25/04/2023	02:30:00	21.5	22.6	21.0	20.4	18.6	13.1	4.9	4.9	13.6	8.9	7.4	5.5	3.6	2.5	1.6	1.3	1.5	1.9	2.6	3.5	4.4	5.0	5.9	6.2	6.6	6.9	6.5
25/04/2023	02:30:00	25/04/2023	02:45:00	21.3	23.6	22.4	19.9	17.2	12.1	5.1	5.8	13.1	9.0	7.1	4.7	3.1	1.7	0.9	0.9	1.2	1.8	2.6	3.4	4.4	5.0	5.9	6.2	6.6	6.9	6.5
25/04/2023	02:45:00	25/04/2023	03:00:00	21.9	23.4	22.8	19.7	16.7	12.4	6.3	6.2	13.6	9.7	7.4	4.7	2.8	1.3	0.4	0.6	1.1	1.8	2.6	3.4	4.3	5.0	5.8	6.2	6.6	6.9	6.5
25/04/2023	03:00:00	25/04/2023	03:15:00	24.7	25.1	21.5	21.5	17.8	14.0	6.9	6.1	13.5	10.3	10.8	10.6	9.0	6.0	5.5	2.9	2.5	2.5	2.9	3.7	4.6	5.1	5.9	6.2	6.6	6.9	6.5
25/04/2023	03:15:00	25/04/2023	03:30:00	21.7	22.1	19.7	20.0	16.6	14.9	7.1	6.1	12.4	8.7	7.4	4.6	3.5	2.4	1.7	1.5	1.5	1.9	2.6	3.5	4.4	5.0	5.8	6.2	6.5	6.9	6.5
25/04/2023	03:30:00	25/04/2023	03:45:00	22.5	23.2	24.9	21.4	18.6	13.2	6.4	9.1	14.3	9.7	7.3	4.9	3.5	2.3	1.4	1.2	1.3	1.8	2.5	3.4	4.3	5.0	5.8	6.2	6.5	6.9	6.5
25/04/2023	03:45:00	25/04/2023	04:00:00	22.7	23.1	20.9	19.9	19.9	14.5	6.1	6.8	14.6	11.0	8.9	7.1	5.7	5.4	3.7	3.2	2.6	2.7	3.2	3.5	4.4	5.0	5.8	6.2	6.5	7.0	6.5
25/04/2023	04:00:00	25/04/2023	04:15:00	23.5	23.6	21.1	20.4	20.4	16.7	7.4	8.3	15.8	10.2	8.5	6.0	4.3	3.1	1.6	1.2	1.3	1.8	2.6	3.6	4.5	5.0	5.8	6.2	6.5	7.0	6.5
25/04/2023	04:15:00	25/04/2023	04:30:00	25.0	24.4	21.8	20.4	20.6	15.0	7.0	9.9	17.4	12.6	10.2	6.8	4.4	3.0	1.4	1.2	1.3	1.8	2.5	3.4	4.4	5.0	5.8	6.2	6.5	7.0	6.5
25/04/2023	04:30:00	25/04/2023	04:45:00	28.6	23.2	19.9	20.0	19.7	13.7	7.5	10.6	21.5	17.1	15.1	11.8	15.2	13.9	10.7	7.7	5.7	5.0	4.4	5.6	6.0	5.6	6.4	6.5	6.8	7.4	6.7
25/04/2023	04:45:00	25/04/2023	05:00:00	25.3	25.9	23.9	21.7	21.0	15.2	7.3	6.4	15.0	11.9	11.7	9.7	8.8	7.4	6.5	5.3	6.4	4.9	6.9	6.8	8.1	8.6	8.6	7.5	7.4	7.4	6.6
25/04/2023	05:00:00	25/04/2023	05:15:00	26.9	26.8	22.3	22.3	23.9	16.1	8.0	8.2	16.4	12.9	12.2	8.9	6.8	5.1	2.9	2.5	2.3	2.1	2.8	3.9	4.6	5.0	5.9	6.2	6.5	7.1	6.5
25/04/2023	05:15:00	25/04/2023	05:30:00	27.7	27.8	23.8	22.7	23.1	16.4	8.4	10.5	18.1	14.0	12.2	9.4	8.5	7.0	4.5	3.8	3.1	2.5	2.9	3.6	4.5	5.0	5.9	6.2	6.5	7.2	6.5
25/04/2023	05:30:00	25/04/2023	05:45:00	28.7	29.9	25.9	25.0	25.4	19.1	10.8	10.6	19.7	15.5	14.0	11.4	9.1	7.4	4.8	4.0	3.4	2.4	2.8	3.6	4.4	4.9	5.8	6.2	6.5	7.2	6.5
25/04/2023	05:45:00	25/04/2023	06:00:00	28.6	31.2	26.5	25.0	24.9	18.6	10.3	10.2	19.2	15.6	13.6	11.1	10.5	8.7	5.6	4.7	4.0	2.8	3.1	3.7	4.6	5.0	5.8	6.2	6.5	7.2	6.5
25/04/2023	06:00:00	25/04/2023	06:15:00	33.9	35.3	26.4	26.0	28.2	22.7	12.7	12.5	21.2	17.6	15.5	13.4	11.4	9.2	6.2	5.0	4.3	3.5	3.8	4.2	5.0	5.2	5.9	6.2	6.5	7.2	6.5
25/04/2023	06:15:00	25/04/2023	06:30:00	34.7	36.3	28.9	28.2	29.7	23.0	14.1	15.1	23.1	19.6	17.1	14.6	13.8	10.9	7.3	5.8	4.7	3.5	3.4	3.8	4.5	5.0	5.8	6.2	6.5	7.2	6.5
25/04/2023	06:30:00	25/04/2023	06:45:00	36.7	33.0	28.2	28.4	29.1	23.4	15.1	14.9	23.4	18.5	17.2	14.5	13.3	10.4	7.6	5.8	4.5	3.2	3.3	3.8	4.6	5.0	5.8	6.2	6.5	7.2	6.5
25/04/2023	06:45:00	25/04/2023	07:00:00	32.1	34.0	28.3	27.8	28.5	22.8	13.5	13.3	21.5	18.1	16.9	14.1	11.9	9.6	6.8	6.0	4.9	3.6	3.7	4.0	4.7	5.0	5.8	6.2	6.5	7.2	6.5

Plot 189 Lmax Spectra

Start		Stop		LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	15:45:00	24/04/2023	16:00:00	86.4	73.5	76.6	84.0	76.3	79.5	77.6	69.3	79.6	78.4	81.5	75.5	76.1	78.4	80.4	81.2	77.6	75.0	70.1	66.6	63.4	65.3	62.3	58.6	54.8	56.5	53.3
24/04/2023	16:00:00	24/04/2023	16:15:00	58.8	38.8	45.1	48.1	39.7	36.8	48.7	38.8	37.8	33.4	32.5	34.6	32.6	32.6	33.0	30.2	30.2	19.8	18.2	27.4	18.0	11.5	14.7	11.6	13.7	9.7	8.0
24/04/2023	16:15:00	24/04/2023	16:30:00	49.3	46.2	43.4	51.5	47.2	35.9	32.1	35.4	39.8	35.6	33.7	27.7	25.6	26.4	32.6	30.3	30.8	31.3	28.9	23.9	22.0	17.2	13.5	12.5	11.6	12.4	8.7
24/04/2023	16:30:00	24/04/2023	16:45:00	41.0	34.2	34.7	41.9	32.6	27.8	31.6	28.7	33.3	38.8	42.3	29.4	34.1	25.9	20.1	27.5	25.6	21.4	16.1	16.4	22.0	10.3	12.2	11.3	7.8	8.7	6.5

Start		Stop		LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	17:00:00	24/04/2023	17:15:00	60.8	64.2	55.2	52.3	57.6	50.7	41.8	36.8	43.2	46.2	43.1	34.5	32.3	28.9	27.8	23.7	24.4	26.2	23.9	20.4	19.1	16.7	11.5	10.4	11.4	11.0	12.1
24/04/2023	17:15:00	24/04/2023	17:30:00	47.7	51.4	43.7	42.9	44.5	35.7	30.9	36.1	46.6	46.2	39.2	38.0	32.7	26.1	26.0	23.2	20.7	19.0	19.5	19.4	15.9	19.2	10.8	8.0	7.9	7.6	7.3
24/04/2023	17:30:00	24/04/2023	17:45:00	51.1	48.0	39.8	42.1	41.2	35.7	28.3	32.6	42.4	43.4	40.4	33.0	28.9	28.6	26.5	22.7	19.5	17.3	19.6	15.1	18.1	15.1	9.8	10.2	9.1	7.6	7.4
24/04/2023	17:45:00	24/04/2023	18:00:00	52.8	49.4	48.3	46.9	43.1	40.2	30.6	32.1	43.1	37.0	29.7	33.5	32.6	28.7	20.3	16.8	14.8	14.8	13.3	14.1	12.4	8.3	8.6	7.2	7.5	7.5	7.2
24/04/2023	18:00:00	24/04/2023	18:15:00	47.4	46.9	41.4	45.3	46.7	37.4	29.6	27.4	47.1	43.6	37.3	31.5	25.4	21.4	18.6	17.8	13.1	10.7	11.6	9.3	8.6	9.7	8.0	7.3	7.5	7.5	7.3
24/04/2023	18:15:00	24/04/2023	18:30:00	56.6	58.1	49.8	45.5	44.3	43.1	36.7	34.0	47.4	44.7	40.3	38.6	34.6	34.7	29.3	29.8	29.6	27.9	31.5	30.2	26.7	24.5	21.5	15.5	15.0	11.1	8.6
24/04/2023	18:30:00	24/04/2023	18:45:00	57.8	57.3	49.1	48.1	50.8	46.8	32.7	33.1	42.9	36.4	33.5	31.5	31.7	25.0	24.1	22.5	17.7	20.7	18.8	19.8	15.7	17.0	17.8	18.7	17.6	11.6	10.5
24/04/2023	18:45:00	24/04/2023	19:00:00	46.2	44.7	44.5	45.9	49.5	38.3	31.6	35.2	42.8	33.0	30.2	27.2	25.9	25.6	19.7	15.6	15.8	13.4	13.0	15.6	15.9	12.4	9.8	9.4	8.2	7.8	7.3
24/04/2023	19:00:00	24/04/2023	19:15:00	60.4	53.3	51.0	53.3	43.4	37.4	25.7	28.3	44.0	42.4	30.2	26.2	21.9	18.2	15.9	14.8	17.8	13.8	13.9	19.2	17.5	17.9	12.2	10.9	9.2	7.7	7.5
24/04/2023	19:15:00	24/04/2023	19:30:00	44.1	41.3	45.5	43.2	45.8	36.6	27.3	31.2	39.9	39.4	37.6	35.0	36.5	33.2	30.7	30.0	27.2	27.8	24.5	22.7	21.5	19.9	13.7	7.2	7.5	7.7	7.4
24/04/2023	19:30:00	24/04/2023	19:45:00	46.2	43.4	42.1	41.2	44.6	51.0	36.8	35.8	56.0	46.1	40.6	38.5	43.1	36.6	33.4	29.3	26.6	24.5	24.1	20.0	17.5	14.8	8.7	7.7	7.5	7.8	7.3
24/04/2023	19:45:00	24/04/2023	20:00:00	61.4	53.6	48.7	51.6	51.3	48.7	37.1	34.6	54.7	48.4	42.1	39.4	43.3	40.1	33.7	28.9	23.9	25.5	24.4	19.0	17.7	15.1	10.4	7.3	7.4	7.7	7.2
24/04/2023	20:00:00	24/04/2023	20:15:00	44.1	46.1	43.5	40.6	51.1	47.6	34.9	39.9	51.3	48.2	40.3	39.9	41.4	36.4	31.4	30.5	27.7	27.3	25.9	22.8	22.9	20.1	14.4	8.0	10.2	8.1	7.9
24/04/2023	20:15:00	24/04/2023	20:30:00	46.7	47.6	42.8	42.5	48.7	49.3	35.8	35.9	56.0	48.0	41.5	38.2	48.3	40.7	37.4	33.6	25.8	25.8	24.7	20.3	19.8	18.0	11.8	7.1	7.5	7.7	7.2
24/04/2023	20:30:00	24/04/2023	20:45:00	46.2	46.4	43.0	41.8	50.7	48.8	37.2	36.3	54.4	46.4	40.0	35.9	40.4	37.2	30.7	26.6	25.8	24.0	24.7	17.1	16.2	13.4	8.3	12.1	12.8	9.5	7.4
24/04/2023	20:45:00	24/04/2023	21:00:00	44.8	49.3	42.7	44.7	53.3	48.9	38.5	39.4	59.3	48.2	44.1	39.2	47.0	40.9	37.4	36.7	27.1	26.2	23.0	20.4	19.5	17.9	12.3	9.4	7.5	7.6	7.2
24/04/2023	21:00:00	24/04/2023	21:15:00	49.0	49.0	39.5	42.9	51.2	49.7	38.0	35.2	56.0	48.7	43.1	39.3	47.6	42.6	38.5	32.3	26.4	23.0	24.7	18.6	18.1	9.1	7.1	7.1	7.6	7.8	7.3
24/04/2023	21:15:00	24/04/2023	21:30:00	47.0	48.4	45.0	42.2	46.1	43.6	31.8	34.8	50.4	44.8	36.6	33.5	38.3	32.6	31.7	29.3	26.3	22.6	19.9	16.5	13.5	9.9	7.9	8.9	7.5	7.7	7.2
24/04/2023	21:30:00	24/04/2023	21:45:00	56.3	53.7	47.4	44.3	44.6	35.1	27.9	27.2	33.4	30.0	25.3	26.1	21.6	17.6	15.1	14.6	9.9	12.8	21.4	8.5	10.0	11.4	8.2	7.3	7.5	7.7	7.2
24/04/2023	21:45:00	24/04/2023	22:00:00	41.7	45.0	41.5	40.2	41.4	37.4	29.7	22.6	37.2	31.3	35.8	25.5	26.2	24.1	20.6	16.2	13.1	12.4	14.4	14.4	14.6	12.5	12.1	9.9	8.2	7.8	7.3
24/04/2023	22:00:00	24/04/2023	22:15:00	45.0	41.7	40.5	42.5	47.4	40.6	29.4	34.3	43.5	40.8	37.1	35.5	38.5	33.1	29.4	22.9	20.6	19.3	22.3	24.7	23.7	20.9	13.6	7.2	7.4	7.7	7.2
24/04/2023	22:15:00	24/04/2023	22:30:00	45.3	43.3	39.3	42.4	47.7	39.7	26.8	29.8	39.3	29.7	27.5	21.5	18.5	14.6	13.4	12.4	9.1	8.5	4.7	6.1	5.7	6.3	7.1	7.2	7.5	7.6	7.3
24/04/2023	22:30:00	24/04/2023	22:45:00	38.4	37.6	37.5	34.8	34.5	31.2	20.1	27.2	38.5	34.9	34.8	33.4	26.8	23.2	24.2	22.4	21.0	22.9	25.0	16.1	14.1	12.8	6.9	7.2	7.6	7.6	7.2
24/04/2023	22:45:00	24/04/2023	23:00:00	39.5	44.5	38.8	36.7	35.8	33.8	22.3	26.7	33.4	31.2	28.0	33.6	30.7	29.6	23.0	23.0	20.0	21.3	19.2	23.6	25.3	21.3	17.7	13.9	12.5	10.8	8.7
24/04/2023	23:00:00	24/04/2023	23:15:00	41.3	40.7	36.3	37.1	37.4	39.1	21.6	17.5	28.7	23.0	21.4	17.0	13.8	16.4	13.6	13.0	12.9	9.3	9.4	5.4	6.5	6.9	7.1	7.2	7.5	7.6	7.3
24/04/2023	23:15:00	24/04/2023	23:30:00	40.7	41.0	38.3	36.0	35.2	30.7	23.6	23.9	34.2	35.8	24.6	32.4	27.3	24.2	21.1	17.2	12.9	8.2	11.4	9.8	12.6	15.2	9.0	7.2	7.5	7.6	7.2
24/04/2023	23:30:00	24/04/2023	23:45:00	41.5	36.3	37.1	39.5	40.5	29.3	22.0	22.3	26.1	25.0	26.0	25.6	25.1	25.2	22.7	20.7	17.2	15.6	18.2	20.4	19.1	16.3	11.3	7.4	7.4	7.6	7.2
24/04/2023	23:45:00	25/04/2023	00:00:00	41.3	48.6	47.0	40.7	37.0	30.3	24.6	20.1	32.8	26.4	26.2	24.5	24.8	22.1	19.2	17.7	12.8	15.1	17.2	15.5	15.7	15.7	17.2	14.9	9.6	11.9	12.9

25/04/2023	00:00:00	25/04/2023	00:15:00	43.9	43.2	34.0	34.5	34.9	32.0	21.2	26.8	35.6	26.7	24.2	22.2	23.6	23.3	19.1	16.5	10.3	8.2	10.9	12.3	14.1	12.2	10.1	9.1	8.0	7.7	7.2
25/04/2023	00:15:00	25/04/2023	00:30:00	43.5	40.3	34.4	42.6	45.0	42.2	29.6	30.8	42.8	35.0	31.1	31.8	26.8	27.9	20.3	19.7	19.1	17.1	14.4	9.6	9.1	10.6	7.9	7.3	7.5	7.7	7.2
25/04/2023	00:30:00	25/04/2023	00:45:00	42.7	42.1	35.3	36.2	35.1	26.1	25.3	28.7	34.5	32.2	27.8	22.5	25.8	26.5	32.3	34.2	35.8	39.0	37.3	34.3	32.7	30.6	25.6	21.4	20.2	9.3	9.2
25/04/2023	00:45:00	25/04/2023	01:00:00	40.3	40.9	38.3	40.5	36.0	27.8	21.8	22.3	36.5	23.3	25.3	23.4	25.1	17.9	17.2	13.4	15.6	14.4	14.3	14.8	17.3	15.5	10.9	8.5	8.8	7.7	7.4
25/04/2023	01:00:00	25/04/2023	01:15:00	44.9	41.9	36.6	32.2	34.8	29.4	14.7	19.5	24.8	21.2	24.5	19.8	19.4	18.7	13.3	14.9	14.0	11.6	12.5	7.8	8.3	6.2	7.0	7.1	7.4	7.7	7.2
25/04/2023	01:15:00	25/04/2023	01:30:00	47.4	47.3	39.0	35.6	31.3	26.1	17.1	28.4	38.5	39.9	33.9	33.3	34.8	33.1	34.6	36.4	35.7	35.3	38.5	36.2	33.0	31.3	28.1	25.2	19.2	15.9	12.3
25/04/2023	01:30:00	25/04/2023	01:45:00	40.2	43.7	38.9	31.0	28.6	30.1	20.6	24.5	24.8	30.7	30.5	30.4	25.9	26.5	29.6	25.3	20.9	21.3	22.2	22.3	22.2	17.3	17.5	17.5	15.7	12.1	10.2
25/04/2023	01:45:00	25/04/2023	02:00:00	35.9	37.8	36.7	30.9	33.6	36.1	27.1	25.7	37.7	31.3	24.6	20.7	21.6	17.2	10.9	9.0	9.1	8.5	7.8	9.7	11.8	14.5	11.0	10.1	8.9	9.0	7.7
25/04/2023	02:00:00	25/04/2023	02:15:00	36.0	33.8	34.4	32.3	34.5	25.9	17.4	22.9	36.5	37.6	30.5	31.0	32.6	30.7	27.1	27.8	23.9	25.5	22.9	20.4	19.4	17.2	10.1	7.3	7.4	7.7	7.4
25/04/2023	02:15:00	25/04/2023	02:30:00	36.8	37.5	37.2	34.4	32.4	27.3	18.0	13.9	31.0	21.7	21.7	22.8	22.1	16.8	17.2	10.9	10.0	7.7	13.1	15.7	15.8	13.7	10.5	7.3	7.4	7.8	7.1
25/04/2023	02:30:00	25/04/2023	02:45:00	32.3	36.1	37.8	35.8	28.0	23.0	16.9	21.6	31.0	27.2	23.0	20.1	20.3	15.9	9.5	8.2	8.0	10.4	11.5	9.2	9.1	11.4	6.9	7.2	7.4	7.8	7.2
25/04/2023	02:45:00	25/04/2023	03:00:00	33.0	33.0	32.3	30.3	28.6	28.1	19.3	21.8	28.7	26.5	27.2	26.2	20.5	17.5	15.5	13.9	12.6	11.0	13.7	8.0	9.1	7.0	6.9	7.3	7.3	7.7	7.2
25/04/2023	03:00:00	25/04/2023	03:15:00	44.2	44.6	37.6	40.6	40.0	36.3	31.1	31.6	35.4	36.2	42.4	39.5	39.6	36.4	38.5	32.8	30.7	28.1	25.7	24.1	26.6	24.9	21.3	17.3	14.1	12.1	8.7
25/04/2023	03:15:00	25/04/2023	03:30:00	35.5	33.5	36.8	40.5	28.8	26.6	21.0	17.6	28.2	22.5	24.9	26.2	26.7	25.7	28.1	27.5	21.5	17.0	17.3	17.0	14.7	11.4	7.6	7.4	7.4	7.8	7.2
25/04/2023	03:30:00	25/04/2023	03:45:00	36.3	37.8	35.3	36.9	32.1	21.0	18.4	22.9	28.6	29.8	20.0	21.6	26.6	22.7	17.4	13.0	8.3	10.7	8.0	6.1	6.8	6.7	7.2	7.2	7.4	8.1	7.3
25/04/2023	03:45:00	25/04/2023	04:00:00	41.3	36.1	37.6	33.8	32.8	26.2	24.0	32.4	36.1	37.3	32.0	35.8	35.2	37.0	33.7	33.7	32.4	31.5	31.3	23.8	23.0	17.3	9.5	7.7	7.4	7.8	7.2
25/04/2023	04:00:00	25/04/2023	04:15:00	46.8	47.1	36.6	39.4	35.9	31.9	24.6	22.3	30.9	27.2	20.7	19.4	20.8	22.3	20.2	17.6	15.0	14.1	17.2	25.5	24.5	19.9	16.4	7.5	7.4	7.8	7.2
25/04/2023	04:15:00	25/04/2023	04:30:00	39.9	40.0	34.9	32.6	35.6	26.0	17.6	24.8	32.6	30.1	23.1	19.2	19.4	14.7	10.4	8.4	8.5	9.8	10.9	9.3	10.2	9.8	10.6	9.9	10.2	10.6	8.3
25/04/2023	04:30:00	25/04/2023	04:45:00	40.0	44.4	47.6	47.4	49.0	43.3	39.6	46.1	57.0	52.2	49.4	46.1	50.4	49.3	45.8	42.0	38.9	37.9	35.1	37.2	37.0	31.5	31.6	31.9	32.2	33.6	31.5
25/04/2023	04:45:00	25/04/2023	05:00:00	43.1	45.7	42.3	38.3	39.5	37.9	29.9	28.5	35.8	37.2	43.0	40.1	39.7	37.7	37.3	36.4	39.9	37.0	41.0	39.8	41.9	42.6	41.9	38.0	36.2	32.1	26.3
25/04/2023	05:00:00	25/04/2023	05:15:00	44.1	39.1	36.1	35.3	36.4	27.8	16.3	17.3	29.5	26.5	29.0	25.2	22.2	25.9	20.6	19.2	16.3	14.5	21.6	20.8	19.6	11.8	10.9	8.0	7.4	7.9	7.2
25/04/2023	05:15:00	25/04/2023	05:30:00	42.1	39.0	34.9	36.0	33.1	24.8	21.8	26.7	33.4	35.3	29.9	34.2	33.1	33.7	31.0	30.0	28.6	26.8	25.7	18.6	16.3	12.7	9.9	7.1	7.4	8.0	7.2
25/04/2023	05:30:00	25/04/2023	05:45:00	41.6	41.1	39.6	34.7	35.8	29.8	21.4	18.9	30.6	24.5	24.2	30.2	21.7	20.5	15.8	14.2	15.1	10.1	10.9	9.6	10.8	12.3	7.2	7.2	7.4	8.1	7.2
25/04/2023	05:45:00	25/04/2023	06:00:00	44.5	44.4	44.6	40.3	39.4	31.9	28.1	29.7	33.0	32.9	30.7	33.4	37.2	34.1	27.9	29.1	25.6	24.5	22.8	19.2	18.8	14.9	10.1	11.9	10.2	10.4	7.9
25/04/2023	06:00:00	25/04/2023	06:15:00	51.8	53.8	43.5	45.9	43.0	39.2	27.2	26.8	36.0	37.5	37.6	36.9	35.3	34.7	29.1	29.1	29.6	28.5	28.7	28.0	30.3	28.1	22.2	19.5	17.7	10.9	11.0
25/04/2023	06:15:00	25/04/2023	06:30:00	59.6	57.3	48.5	44.4	41.7	37.6	29.4	31.8	38.8	36.5	32.9	30.3	29.3	28.3	26.5	22.6	27.8	29.8	23.5	22.7	18.0	16.5	19.2	9.6	8.2	8.1	7.4
25/04/2023	06:30:00	25/04/2023	06:45:00	52.6	47.1	46.9	43.8	45.0	43.1	32.1	32.4	41.2	37.9	41.5	38.5	38.4	34.3	34.5	28.3	25.9	23.8	23.9	21.6	23.7	21.0	16.0	11.5	11.8	14.4	11.6
25/04/2023	06:45:00	25/04/2023	07:00:00	54.2	52.6	41.1	39.4	40.7	33.3	27.3	28.5	37.1	28.9	34.8	30.5	27.0	24.3	29.0	30.4	29.4	29.6	31.4	28.2	26.1	23.3	17.8	13.8	8.5	9.1	8.8

Plot 202 dBA Results

Start		Stop				
Date	Time	Date	Time		dB LA_{eq}	dB LA_{max}
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]			
24/04/2023	15:34:38	24/04/2023	15:45:00		51.5	81.3
24/04/2023	15:45:00	24/04/2023	16:00:00		19.8	36.4
24/04/2023	16:00:00	24/04/2023	16:15:00		20.2	42.3
24/04/2023	16:15:00	24/04/2023	16:30:00		19.7	39.7

Start		Stop				
Date	Time	Date	Time			
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]		dB LA_{eq}	dB LA_{max}
24/04/2023	16:45:00	24/04/2023	17:00:00		21.6	40.8
24/04/2023	17:00:00	24/04/2023	17:15:00		21.2	34.7
24/04/2023	17:15:00	24/04/2023	17:30:00		22.4	40.4
24/04/2023	17:30:00	24/04/2023	17:45:00		20.5	36.2
24/04/2023	17:45:00	24/04/2023	18:00:00		20.1	33.0
24/04/2023	18:00:00	24/04/2023	18:15:00		22.0	38.9
24/04/2023	18:15:00	24/04/2023	18:30:00		22.7	50.1
24/04/2023	18:30:00	24/04/2023	18:45:00		20.7	35.2
24/04/2023	18:45:00	24/04/2023	19:00:00		20.7	36.2
24/04/2023	19:00:00	24/04/2023	19:15:00		25.7	36.7
24/04/2023	19:15:00	24/04/2023	19:30:00		23.4	42.3
24/04/2023	19:30:00	24/04/2023	19:45:00		35.9	55.9
24/04/2023	19:45:00	24/04/2023	20:00:00		36.8	55.7
24/04/2023	20:00:00	24/04/2023	20:15:00		34.8	53.4
24/04/2023	20:15:00	24/04/2023	20:30:00		37.0	56.3
24/04/2023	20:30:00	24/04/2023	20:45:00		33.0	54.4
24/04/2023	20:45:00	24/04/2023	21:00:00		36.3	55.8
24/04/2023	21:00:00	24/04/2023	21:15:00		35.9	55.8
24/04/2023	21:15:00	24/04/2023	21:30:00		33.0	54.5
24/04/2023	21:30:00	24/04/2023	21:45:00		20.2	35.1
24/04/2023	21:45:00	24/04/2023	22:00:00		19.1	36.1
24/04/2023	22:00:00	24/04/2023	22:15:00		19.8	34.4
24/04/2023	22:15:00	24/04/2023	22:30:00		21.3	34.9
24/04/2023	22:30:00	24/04/2023	22:45:00		18.8	33.9
24/04/2023	22:45:00	24/04/2023	23:00:00		18.5	36.4
24/04/2023	23:00:00	24/04/2023	23:15:00		18.1	27.5
24/04/2023	23:15:00	24/04/2023	23:30:00		18.3	38.6
24/04/2023	23:30:00	24/04/2023	23:45:00		17.9	33.6
24/04/2023	23:45:00	25/04/2023	00:00:00		17.8	31.7
25/04/2023	00:00:00	25/04/2023	00:15:00		18.0	32.8
25/04/2023	00:15:00	25/04/2023	00:30:00		18.6	37.1
25/04/2023	00:30:00	25/04/2023	00:45:00		18.2	35.6

25/04/2023	00:45:00	25/04/2023	01:00:00		21.1	52.6
25/04/2023	01:00:00	25/04/2023	01:15:00		18.1	35.4
25/04/2023	01:15:00	25/04/2023	01:30:00		18.5	42.2
25/04/2023	01:30:00	25/04/2023	01:45:00		20.9	52.2
25/04/2023	01:45:00	25/04/2023	02:00:00		18.2	29.2
25/04/2023	02:00:00	25/04/2023	02:15:00		25.3	58.8
25/04/2023	02:15:00	25/04/2023	02:30:00		18.2	31.4
25/04/2023	02:30:00	25/04/2023	02:45:00		30.0	64.0
25/04/2023	02:45:00	25/04/2023	03:00:00		18.6	40.0
25/04/2023	03:00:00	25/04/2023	03:15:00		18.2	36.1
25/04/2023	03:15:00	25/04/2023	03:30:00		18.0	34.3
25/04/2023	03:30:00	25/04/2023	03:45:00		18.3	38.5
25/04/2023	03:45:00	25/04/2023	04:00:00		18.1	36.5
25/04/2023	04:00:00	25/04/2023	04:15:00		18.2	30.7
25/04/2023	04:15:00	25/04/2023	04:30:00		20.7	53.9
25/04/2023	04:30:00	25/04/2023	04:45:00		19.5	47.9
25/04/2023	04:45:00	25/04/2023	05:00:00		19.0	44.1
25/04/2023	05:00:00	25/04/2023	05:15:00		19.2	36.8
25/04/2023	05:15:00	25/04/2023	05:30:00		18.7	35.3
25/04/2023	05:30:00	25/04/2023	05:45:00		19.2	28.9
25/04/2023	05:45:00	25/04/2023	06:00:00		19.4	34.9
25/04/2023	06:00:00	25/04/2023	06:15:00		19.4	35.0
25/04/2023	06:15:00	25/04/2023	06:30:00		23.7	56.0
25/04/2023	06:30:00	25/04/2023	06:45:00		19.9	38.8
25/04/2023	06:45:00	25/04/2023	07:00:00		20.4	35.8
25/04/2023	07:00:00	25/04/2023	07:15:00		20.1	34.6
25/04/2023	07:15:00	25/04/2023	07:30:00		20.4	37.1
25/04/2023	07:30:00	25/04/2023	07:45:00		21.5	51.1
25/04/2023	07:45:00	25/04/2023	08:00:00		20.4	38.2
25/04/2023	08:00:00	25/04/2023	08:15:00		19.1	34.2
25/04/2023	08:15:00	25/04/2023	08:30:00		22.9	48.3
25/04/2023	08:30:00	25/04/2023	08:45:00		23.5	41.8
25/04/2023	08:45:00	25/04/2023	09:00:00		20.2	33.8
25/04/2023	09:00:00	25/04/2023	09:15:00		19.6	32.8
25/04/2023	09:15:00	25/04/2023	09:30:00		20.0	34.7
25/04/2023	09:30:00	25/04/2023	09:45:00		26.0	46.3

Plot 202 Leq Spectra

Start		Stop		LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	15:34:38	24/04/2023	15:45:00	38.0	30.4	37.7	32.7	22.7	28.6	32.3	29.6	34.8	40.5	41.7	41.6	43.4	41.8	42.0	42.5	41.8	43.9	42.6	39.3	36.5	35.4	34.3	32.3	30.1	27.6	24.2
24/04/2023	15:45:00	24/04/2023	16:00:00	27.6	26.4	35.8	25.6	18.3	16.2	19.1	17.8	15.8	20.2	14.8	11.5	11.4	9.0	5.0	7.0	6.9	6.7	6.2	5.0	5.8	5.7	6.3	7.7	8.9	8.2	8.2
24/04/2023	16:00:00	24/04/2023	16:15:00	28.1	27.2	36.5	28.3	23.4	18.4	24.5	21.9	14.8	18.3	14.7	11.7	12.1	9.6	6.1	7.7	7.8	7.7	7.1	6.1	5.8	5.9	6.4	7.6	9.1	8.2	8.2
24/04/2023	16:15:00	24/04/2023	16:30:00	28.6	27.3	32.4	26.3	19.5	15.2	18.6	17.4	13.6	17.0	13.1	11.3	11.9	9.4	7.5	7.9	7.7	7.4	6.5	5.5	5.9	5.8	6.3	7.4	9.2	8.1	8.1

Start		Stop		LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq	LZeq
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	16:45:00	24/04/2023	17:00:00	31.0	28.5	28.6	25.6	22.6	21.2	16.5	20.7	23.1	27.6	17.0	14.9	13.6	9.0	6.4	6.6	6.7	4.6	3.7	4.3	5.1	5.6	6.4	7.2	8.5	8.1	8.0
24/04/2023	17:00:00	24/04/2023	17:15:00	32.0	30.4	29.8	28.3	32.0	23.7	17.7	21.0	22.5	25.8	14.3	13.9	12.1	9.4	7.6	7.9	7.9	5.7	4.8	4.4	5.2	6.1	6.5	7.2	8.6	8.1	8.1
24/04/2023	17:15:00	24/04/2023	17:30:00	31.2	29.4	30.2	27.1	31.3	24.8	18.2	22.1	24.2	28.6	18.4	15.1	13.5	9.5	7.6	7.9	7.7	5.3	4.2	4.4	4.9	5.8	6.3	7.3	8.6	8.1	8.1
24/04/2023	17:30:00	24/04/2023	17:45:00	31.7	29.0	28.8	25.6	22.7	21.7	17.3	21.7	22.4	25.0	13.8	13.1	11.0	7.8	5.8	6.5	6.5	4.5	3.6	4.1	4.9	5.7	6.4	7.2	8.4	8.1	8.1
24/04/2023	17:45:00	24/04/2023	18:00:00	32.0	31.2	30.8	27.1	23.9	22.3	17.3	20.8	21.0	24.2	11.4	12.0	10.3	7.4	5.8	6.7	6.5	4.7	3.9	4.4	5.1	5.8	6.5	7.1	8.4	8.1	8.1
24/04/2023	18:00:00	24/04/2023	18:15:00	30.3	29.8	29.0	27.0	29.2	27.1	16.8	19.9	24.0	28.3	16.8	13.7	11.2	7.9	6.2	7.0	7.0	4.9	4.1	5.9	7.4	7.2	6.5	7.1	8.8	8.0	8.1
24/04/2023	18:15:00	24/04/2023	18:30:00	31.3	32.5	30.9	26.5	29.4	32.6	18.1	20.9	22.4	26.2	13.9	14.0	12.6	11.2	10.4	10.1	10.6	9.2	9.2	8.9	8.8	8.9	7.5	7.7	8.7	8.1	8.0
24/04/2023	18:30:00	24/04/2023	18:45:00	29.8	30.6	29.5	25.5	24.2	21.7	16.5	20.2	21.2	24.7	12.3	13.0	11.2	9.1	7.7	8.5	8.2	6.0	4.6	4.7	5.5	6.5	6.5	7.3	8.9	8.1	8.0
24/04/2023	18:45:00	24/04/2023	19:00:00	30.1	28.9	28.8	25.9	36.0	33.3	15.6	18.1	20.0	23.1	10.9	12.0	10.3	8.2	6.7	7.5	7.1	5.0	3.9	4.3	5.2	6.1	6.5	7.2	8.7	8.2	8.1
24/04/2023	19:00:00	24/04/2023	19:15:00	29.0	28.2	29.0	25.9	27.3	27.6	25.0	27.5	30.3	34.2	14.0	14.9	12.6	10.2	8.3	7.9	7.2	5.3	4.2	4.4	5.4	6.2	6.5	7.1	8.8	8.2	8.1
24/04/2023	19:15:00	24/04/2023	19:30:00	28.8	26.8	27.0	24.3	27.6	26.8	25.0	27.3	25.7	28.9	13.9	16.2	14.6	12.7	12.5	11.7	9.1	6.6	5.3	5.0	5.8	6.4	6.4	7.2	8.9	8.3	8.1
24/04/2023	19:30:00	24/04/2023	19:45:00	30.5	28.7	27.8	25.6	33.9	40.5	35.3	29.8	40.3	43.4	27.9	29.9	30.1	27.8	25.8	20.6	15.9	14.6	12.7	11.4	12.5	14.0	7.9	7.3	9.0	8.2	8.1
24/04/2023	19:45:00	24/04/2023	20:00:00	29.2	26.8	26.9	24.3	39.4	42.7	35.4	32.1	42.0	43.3	29.3	32.0	32.0	29.2	27.1	21.5	16.9	15.8	13.7	12.5	13.6	14.7	8.5	7.6	9.5	8.2	8.1
24/04/2023	20:00:00	24/04/2023	20:15:00	28.7	27.5	27.8	24.7	38.5	40.2	34.4	30.9	39.6	42.0	26.7	29.6	29.4	26.8	24.7	18.9	14.3	12.7	10.6	9.4	10.3	11.7	7.2	7.5	9.6	8.1	8.1
24/04/2023	20:15:00	24/04/2023	20:30:00	27.8	26.6	28.3	24.5	38.6	42.7	36.4	33.0	42.1	44.3	28.7	31.3	31.5	28.7	26.8	21.0	16.2	15.2	13.2	12.1	13.0	14.2	7.9	7.4	9.7	8.2	8.2
24/04/2023	20:30:00	24/04/2023	20:45:00	27.9	26.1	27.0	23.6	38.0	38.7	31.6	31.7	37.1	40.0	23.2	28.2	27.8	24.9	23.1	17.9	13.1	11.3	9.3	8.3	9.3	10.4	7.1	7.7	10.3	8.3	8.2
24/04/2023	20:45:00	24/04/2023	21:00:00	28.2	36.0	30.7	26.6	40.5	41.4	35.3	32.8	40.3	42.7	25.9	30.2	31.8	29.8	27.8	22.0	16.9	16.1	14.2	12.9	13.7	15.1	8.1	7.8	10.5	8.4	8.1
24/04/2023	21:00:00	24/04/2023	21:15:00	28.3	27.4	27.7	24.5	36.9	41.5	34.9	30.2	40.1	42.2	26.4	29.1	31.0	30.0	27.7	22.0	16.9	15.6	14.0	12.7	13.6	14.6	7.9	7.9	10.3	8.3	8.0
24/04/2023	21:15:00	24/04/2023	21:30:00	30.0	32.9	29.2	26.8	33.5	36.9	31.8	26.7	37.1	40.8	23.8	25.1	25.5	25.4	23.9	17.6	13.0	11.9	10.1	9.3	10.4	11.2	6.7	7.8	9.7	8.3	8.0
24/04/2023	21:30:00	24/04/2023	21:45:00	27.8	33.5	26.9	26.6	31.0	19.6	20.5	23.5	20.0	24.4	10.6	11.1	8.6	7.3	6.2	6.2	5.2	3.7	3.7	3.9	4.8	5.8	6.1	8.0	9.9	8.3	8.0
24/04/2023	21:45:00	24/04/2023	22:00:00	26.8	24.7	26.0	24.4	25.9	19.9	18.3	19.2	18.5	21.1	8.9	10.0	7.8	5.5	4.2	5.3	4.6	3.1	3.1	3.9	4.8	5.7	6.2	8.2	9.9	8.3	8.0
24/04/2023	22:00:00	24/04/2023	22:15:00	27.5	26.1	28.0	25.7	23.4	22.7	20.1	18.3	20.2	23.8	10.0	11.2	9.3	6.4	4.7	5.4	4.9	3.6	3.3	3.7	4.6	5.7	6.1	8.4	9.7	8.3	8.0
24/04/2023	22:15:00	24/04/2023	22:30:00	27.5	26.5	25.6	24.1	42.5	32.2	17.2	17.9	19.7	22.4	9.4	11.4	8.5	5.8	4.1	5.0	4.4	3.0	3.1	3.6	4.5	5.6	6.1	8.3	9.6	8.3	8.0
24/04/2023	22:30:00	24/04/2023	22:45:00	24.4	22.1	24.7	23.1	19.6	18.1	13.0	16.3	18.5	20.9	9.4	10.9	8.0	5.2	3.4	4.7	4.2	3.0	3.1	3.6	4.5	5.7	6.1	8.3	9.3	8.2	8.0
24/04/2023	22:45:00	24/04/2023	23:00:00	24.3	22.9	24.6	22.7	17.5	17.1	11.4	14.9	16.5	19.4	6.6	9.6	7.1	4.1	2.8	4.3	3.5	2.6	3.1	3.8	4.8	5.8	6.1	8.3	9.9	8.3	8.0
24/04/2023	23:00:00	24/04/2023	23:15:00	23.6	22.8	23.8	22.1	17.7	16.5	10.6	14.0	15.5	18.2	6.5	8.5	7.0	3.4	2.2	3.9	3.1	2.3	2.8	3.6	4.5	5.7	6.1	8.2	9.8	8.3	8.0
24/04/2023	23:15:00	24/04/2023	23:30:00	23.9	21.6	22.9	20.5	17.0	16.3	11.4	13.1	15.8	20.4	6.7	8.5	7.4	3.4	2.3	3.9	2.9	2.2	2.8	3.5	4.4	5.7	6.0	7.9	9.6	8.2	8.0
24/04/2023	23:30:00	24/04/2023	23:45:00	23.8	21.5	23.3	19.7	15.2	16.6	9.5	12.0	13.6	16.3	5.7	8.1	7.0	3.1	1.9	3.9	2.9	2.3	3.0	3.6	4.6	5.7	5.9	7.8	9.8	8.3	8.0

24/04/2023	23:45:00	25/04/2023	00:00:00	24.5	24.4	24.0	21.6	16.5	15.9	10.2	11.1	12.4	15.4	4.8	8.9	7.5	3.6	2.2	3.9	2.9	2.1	2.8	3.5	4.4	5.6	5.9	7.8	9.8	8.3	8.0
25/04/2023	00:00:00	25/04/2023	00:15:00	23.0	22.9	22.2	20.0	15.3	16.6	11.9	12.3	13.0	15.6	7.0	13.2	6.1	4.1	2.8	4.0	3.2	2.1	2.7	3.5	4.4	5.6	5.9	7.8	9.7	8.3	8.0
25/04/2023	00:15:00	25/04/2023	00:30:00	21.8	19.2	23.0	18.9	16.0	20.0	17.3	17.6	17.0	17.9	8.9	14.5	7.1	4.2	2.9	4.3	3.7	2.4	3.0	3.7	4.6	5.6	5.9	8.0	9.7	8.2	8.0
25/04/2023	00:30:00	25/04/2023	00:45:00	21.2	19.6	20.5	18.2	14.1	19.7	15.9	11.5	12.4	14.8	6.2	14.2	5.6	3.4	2.8	4.2	3.7	2.6	2.9	3.8	4.8	5.9	6.0	8.0	9.7	8.2	8.0
25/04/2023	00:45:00	25/04/2023	01:00:00	21.7	18.4	20.0	19.9	14.2	19.0	15.3	12.4	12.7	15.8	12.8	15.4	8.6	6.7	8.3	7.9	9.7	9.1	10.2	8.9	8.5	8.5	8.1	9.5	10.5	8.4	8.1
25/04/2023	01:00:00	25/04/2023	01:15:00	20.4	18.2	18.5	17.1	13.7	18.1	14.4	12.0	12.2	14.7	6.1	13.9	5.3	3.2	2.4	4.3	3.9	2.6	3.0	3.7	4.6	5.7	5.9	7.8	9.7	8.2	8.0
25/04/2023	01:15:00	25/04/2023	01:30:00	18.7	16.9	20.7	20.9	13.6	15.3	11.3	12.3	14.1	16.5	6.0	13.6	6.7	6.2	3.2	4.3	4.3	2.5	3.2	4.4	5.2	6.0	6.2	8.3	9.9	8.2	8.0
25/04/2023	01:30:00	25/04/2023	01:45:00	20.6	17.5	21.4	23.3	15.6	15.9	10.9	11.9	13.4	16.0	7.8	13.7	6.9	7.1	9.5	9.8	7.5	8.1	8.4	9.0	10.6	9.1	7.5	8.7	10.5	8.2	8.0
25/04/2023	01:45:00	25/04/2023	02:00:00	20.5	17.0	21.0	25.8	16.4	17.5	12.5	12.6	13.5	16.4	7.0	13.2	5.5	3.1	2.5	4.0	3.1	2.1	2.7	3.5	4.5	5.6	5.8	8.2	10.2	8.2	8.0
25/04/2023	02:00:00	25/04/2023	02:15:00	18.8	18.2	20.3	30.0	15.1	16.2	11.1	11.6	13.4	16.3	9.8	13.8	8.8	7.8	10.6	10.7	13.3	13.7	14.7	15.2	16.7	16.4	10.8	9.1	11.6	10.2	8.1
25/04/2023	02:15:00	25/04/2023	02:30:00	19.8	16.9	22.6	27.5	14.9	14.4	9.6	11.6	15.0	16.6	6.6	13.9	6.6	3.8	2.9	4.0	3.5	2.1	2.7	3.5	4.5	5.6	5.9	8.1	9.4	8.2	8.1
25/04/2023	02:30:00	25/04/2023	02:45:00	19.7	18.8	21.9	22.6	14.1	14.2	9.5	13.2	16.1	17.8	15.2	21.3	18.1	18.7	16.2	19.0	21.1	22.4	23.7	18.4	13.2	11.7	8.8	9.3	9.9	8.3	8.1
25/04/2023	02:45:00	25/04/2023	03:00:00	20.7	18.8	18.4	18.0	13.8	14.6	9.4	13.0	14.8	18.4	6.7	13.6	6.2	3.5	2.8	4.4	3.9	3.8	4.8	4.5	5.3	5.8	6.0	8.4	9.5	8.3	8.1
25/04/2023	03:00:00	25/04/2023	03:15:00	25.5	21.8	18.5	19.0	13.5	15.0	10.1	12.9	13.5	16.4	6.6	13.6	7.5	3.5	2.6	3.9	3.4	2.2	3.0	3.5	4.5	5.6	6.0	8.7	9.4	8.2	8.1
25/04/2023	03:15:00	25/04/2023	03:30:00	21.2	18.6	18.0	18.1	12.9	15.3	10.9	12.8	13.0	16.0	6.2	11.5	7.5	3.2	2.2	3.9	3.0	2.2	2.9	3.6	4.5	5.6	5.8	8.7	9.3	8.1	8.1
25/04/2023	03:30:00	25/04/2023	03:45:00	20.8	18.7	19.0	19.8	14.4	15.4	11.6	14.6	14.7	18.0	6.6	10.9	9.3	4.5	3.2	4.6	3.3	2.3	3.0	3.6	4.4	5.7	5.8	8.5	9.2	8.2	8.1
25/04/2023	03:45:00	25/04/2023	04:00:00	20.0	17.7	20.6	20.2	15.1	16.8	11.9	13.4	14.2	17.3	7.1	10.7	8.9	4.6	2.7	4.1	2.9	2.2	2.9	3.6	4.5	5.7	5.9	8.5	9.1	8.2	8.1
25/04/2023	04:00:00	25/04/2023	04:15:00	19.3	17.3	21.4	23.2	17.4	17.0	11.8	14.5	15.4	17.9	7.4	11.1	8.7	4.4	2.9	4.0	2.9	2.0	2.7	3.5	4.4	5.6	5.9	8.6	9.0	8.3	8.1
25/04/2023	04:15:00	25/04/2023	04:30:00	21.8	19.0	23.1	23.2	16.6	15.7	12.8	20.2	17.3	18.7	8.5	11.2	9.5	4.2	3.4	5.1	3.3	2.5	3.5	5.5	6.8	8.3	9.2	12.8	13.2	10.4	9.0
25/04/2023	04:30:00	25/04/2023	04:45:00	20.9	18.3	19.4	22.2	16.0	14.8	9.8	13.7	14.3	17.3	9.9	11.8	10.5	6.8	6.5	7.1	6.8	6.3	7.6	6.5	6.2	6.5	6.5	8.9	9.0	8.3	8.1
25/04/2023	04:45:00	25/04/2023	05:00:00	22.5	19.1	22.9	22.4	16.1	15.2	11.2	13.5	15.3	18.3	7.5	10.5	10.4	8.1	4.7	5.5	4.9	3.1	3.7	5.3	6.3	6.5	6.4	9.1	9.0	8.3	8.1
25/04/2023	05:00:00	25/04/2023	05:15:00	25.3	21.2	22.6	23.3	17.6	15.8	12.3	14.7	16.2	19.2	8.0	10.0	10.8	5.1	3.6	4.6	3.7	2.4	3.9	7.9	7.8	7.2	6.1	8.8	9.1	8.3	8.1
25/04/2023	05:15:00	25/04/2023	05:30:00	25.7	22.7	24.3	23.7	18.2	16.8	13.6	16.3	17.1	20.0	8.0	10.7	9.7	6.0	4.3	5.0	3.9	2.6	3.0	3.7	4.6	5.7	5.9	8.5	9.1	8.2	8.1
25/04/2023	05:30:00	25/04/2023	05:45:00	26.0	23.5	23.8	26.1	19.7	18.8	14.4	17.5	18.9	21.8	10.2	13.4	9.2	6.1	4.7	5.2	4.3	2.5	2.8	3.5	4.4	5.6	5.8	8.4	9.2	8.2	8.1
25/04/2023	05:45:00	25/04/2023	06:00:00	25.8	24.0	24.5	24.5	19.2	18.4	14.0	16.6	19.1	22.0	10.2	13.9	9.2	7.3	5.9	5.6	4.7	2.9	3.2	3.7	4.6	5.7	5.8	8.5	9.4	8.1	8.0
25/04/2023	06:00:00	25/04/2023	06:15:00	25.4	24.7	25.2	23.5	20.6	20.3	15.1	17.3	19.4	22.5	10.2	11.5	10.0	6.2	4.4	5.2	4.3	3.2	3.4	3.9	5.1	5.8	5.9	8.5	9.4	8.1	8.0
25/04/2023	06:15:00	25/04/2023	06:30:00	28.5	26.3	26.9	25.5	22.0	21.6	16.6	18.5	20.3	23.1	11.7	14.2	13.3	14.0	13.1	15.3	15.0	12.2	13.9	9.3	8.2	8.5	6.9	8.7	9.4	8.1	8.1
25/04/2023	06:30:00	25/04/2023	06:45:00	29.4	27.1	27.3	25.4	22.7	22.3	17.1	18.9	20.9	24.0	11.2	12.8	10.9	7.4	5.0	6.1	4.8	3.0	3.2	4.0	4.7	5.7	5.8	8.3	9.4	8.1	8.1
25/04/2023	06:45:00	25/04/2023	07:00:00	29.5	29.7	28.7	25.5	23.2	21.4	17.2	21.3	22.0	25.1	12.8	13.8	10.9	7.6	5.6	6.0	5.1	3.3	3.3	3.9	4.7	5.8	5.8	8.4	9.5	8.1	8.1
25/04/2023	07:00:00	25/04/2023	07:15:00	30.7	28.8	28.5	25.9	23.0	21.7	16.2	19.5	20.8	24.4	12.2	13.8	10.7	7.0	5.2	5.6	4.5	2.8	3.1	3.8	4.7	5.8	5.9	8.6	9.6	8.1	8.0
25/04/2023	07:15:00	25/04/2023	07:30:00	31.2	31.2	28.1	25.6	22.7	21.6	15.9	20.4	22.1	25.4	12.1	13.3	11.0	6.7	4.7	5.4	4.4	3.0	3.2	3.8	4.7	5.8	5.9	8.7	9.7	8.2	8.0
25/04/2023	07:30:00	25/04/2023	07:45:00	31.4	30.6	29.3	26.0	22.9	21.2	16.9	20.0	21.5	24.6	16.6	16.6	15.3	11.8	7.4	7.6	7.3	7.0	5.9	5.3	5.6	6.5	6.1	8.9	9.7	8.2	8.0
25/04/2023	07:45:00	25/04/2023	08:00:00	31.0	30.6	29.9	27.0	22.8	22.1	16.7	19.7	21.4	25.7	11.3	12.9	10.2	6.9	4.7	4.7	3.9	3.0	3.4	3.9	4.8	5.9	5.9	9.0	9.6	8.2	8.0
25/04/2023	08:00:00	25/04/2023	08:15:00	31.1	29.3	28.5	25.3	22.1	21.6	14.9	16.9	18.6	21.7	9.1	11.5	10.0	4.4	2.7	4.0	3.1	2.4	3.1	3.7	4.6	5.7	5.8	9.0	9.7	8.2	8.0
25/04/2023	08:15:00	25/04/2023	08:30:00	43.3	34.0	29.8	30.6	25.8	24.2	16.1	18.6	21.4	26.1	19.4	16.4	14.1	10.1	7.2	14.8	7.9	9.7	8.5	6.5	9.0	9.4	6.5	9.2	9.7	8.2	8.0
25/04/2023	08:30:00	25/04/2023	08:45:00	44.2	34.4	30.5	31.6	25.6	24.9	16.8	19.4	23.6	27.2	21.6	18.1	14.7	11.4	9.1	9.1	8.8	9.9	9.4	8.0	9.9	10.7	7.1	9.3	9.8	8.2	8.0
25/04/2023	08:45:00	25/04/2023	09:00:00	38.4	30.8	30.0	28.1	22.8	21.5	16.1	17.9	20.0	22.8	14.9	14.3	11.1	7.5	5.5	5.4	5.4	5.1	4.9	4.6	5.9	6.9	6.0	9.1	9.7	8.2	8.0
25/04/2023	09:00:00	25/04/2023	09:15:00	31.6	28.8	28.5	26.1	20.7	18.6	13.2	15.9	20.4	23.2	9.0	12.8	8.7	5.5	4.1	5.6	4.5	2.8	3.4	4.0	5.4	6.0	5.9	9.0	9.7	8.3	8.0
25/04/2023	09:15:00	25/04/2023	09:30:00	31.6	30.4	28.7	25.3	22.9	21.4	15.5	18.1	20.3	23.7	11.3	13.7	8.5	7.6	5.5	5.1	5.7	4.3	4.2	4.0	5.1	5.9	5.8	9.0	9.7	8.3	8.1
25/04/2023	09:30:00	25/04/2023	09:45:00	32.9	31.9	29.0	25.8	29.9	32.3	25.5	33.7	28.4	31.1	23.3	20.5	16.9	13.6	11.6	10.0	9.4	8.0	6.3	6.3	8.2	9.5	8.3	10.1	9.7	8.3	8.1

Plot 202 Lmax Spectra

Start		Stop		LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	15:34:38	24/04/2023	15:45:00	69.5	57.7	68.0	62.4	51.0	57.2	58.9	56.4	66.2	70.5	72.2	73.6	74.8	72.2	71.6	74.0	69.7	73.9	71.6	67.7	64.0	63.5	64.7	63.3	61.7	58.2	55.2
24/04/2023	15:45:00	24/04/2023	16:00:00	41.0	38.0	52.1	40.0	35.9	30.8	35.3	33.7	32.4	41.8	35.4	26.4	19.7	19.3	21.1	20.7	18.8	18.8	20.0	20.6	22.0	18.0	22.7	25.9	26.5	23.6	16.2
24/04/2023	16:00:00	24/04/2023	16:15:00	48.0	43.8	53.3	46.0	40.8	38.2	49.8	46.1	31.4	35.7	36.8	29.5	32.3	29.8	29.9	29.8	30.2	31.1	32.6	31.7	30.0	29.1	25.9	27.6	23.1	24.9	24.7
24/04/2023	16:15:00	24/04/2023	16:30:00	40.6	41.0	47.3	42.2	38.6	36.7	38.9	33.8	32.4	32.5	28.7	26.0	28.6	28.5	37.8	33.0	27.1	24.8	24.2	24.8	25.6	23.4	20.3	14.9	13.7	13.8	13.6

Start		Stop		LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax	LZFmax
Date	Time	Date	Time	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
[YYYY-MM-DD]	[hh:mm:ss]	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
24/04/2023	16:45:00	24/04/2023	17:00:00	43.4	46.3	43.1	37.4	34.3	34.2	28.7	36.4	39.3	47.9	35.6	33.3	35.1	34.2	27.5	21.0	28.9	24.4	23.7	22.5	23.2	22.0	21.9	22.5	17.0	13.6	13.5
24/04/2023	17:00:00	24/04/2023	17:15:00	51.5	50.2	43.6	45.5	46.9	42.3	35.6	45.2	35.7	37.9	29.4	27.3	28.8	22.0	21.1	19.4	19.6	17.1	20.3	12.2	12.3	15.6	10.8	9.6	10.5	9.0	8.7
24/04/2023	17:15:00	24/04/2023	17:30:00	50.2	49.4	45.3	40.1	46.4	41.2	34.4	43.0	43.1	47.8	39.4	29.9	31.9	28.2	28.3	22.2	20.8	20.6	24.8	26.7	18.6	14.0	13.9	10.9	12.0	9.3	8.8
24/04/2023	17:30:00	24/04/2023	17:45:00	44.0	43.2	41.9	36.0	38.4	34.9	28.7	43.5	44.5	40.9	30.6	29.4	26.7	23.7	19.7	19.2	18.5	18.3	18.7	17.2	16.1	17.0	16.0	12.3	10.5	9.9	10.1
24/04/2023	17:45:00	24/04/2023	18:00:00	51.1	48.2	49.0	45.1	40.1	38.7	30.7	39.3	35.7	38.2	23.5	23.6	26.2	21.0	16.2	15.4	15.4	19.0	19.9	20.0	19.2	15.8	9.1	9.9	11.2	8.9	8.9
24/04/2023	18:00:00	24/04/2023	18:15:00	46.5	41.8	42.8	42.4	48.7	44.4	29.3	33.2	39.0	46.2	33.6	26.3	24.3	15.3	16.9	21.0	16.2	21.1	21.8	23.0	25.9	30.8	15.2	9.8	11.8	9.2	8.8
24/04/2023	18:15:00	24/04/2023	18:30:00	56.3	58.4	46.9	38.8	45.9	47.0	31.7	42.1	36.1	41.9	40.3	36.9	39.8	41.3	41.5	39.5	41.1	40.3	41.2	39.4	38.0	37.2	32.2	28.9	24.9	21.2	18.2
24/04/2023	18:30:00	24/04/2023	18:45:00	46.1	51.9	48.3	41.1	42.9	38.9	29.1	39.1	39.1	40.9	27.1	29.2	28.8	23.7	21.2	20.5	17.8	19.2	19.7	16.9	20.2	22.9	14.5	9.7	13.3	9.0	8.8
24/04/2023	18:45:00	24/04/2023	19:00:00	45.7	44.9	44.2	38.5	50.7	47.9	28.6	31.1	32.8	35.9	30.0	28.6	27.8	30.1	29.1	29.8	23.0	21.4	18.7	16.1	18.0	18.9	10.7	10.5	11.9	9.4	8.9
24/04/2023	19:00:00	24/04/2023	19:15:00	46.1	40.2	40.3	38.6	39.6	39.4	36.7	38.2	40.7	45.6	23.6	25.7	24.0	23.4	22.2	19.5	18.2	17.2	13.0	14.6	15.5	17.2	12.8	10.4	10.4	8.9	8.8
24/04/2023	19:15:00	24/04/2023	19:30:00	46.6	41.0	42.4	35.4	45.7	43.1	40.6	47.9	44.4	50.0	30.8	36.3	36.7	30.7	29.3	28.5	27.5	21.4	20.8	21.0	19.4	16.0	15.4	11.5	12.2	9.4	8.9
24/04/2023	19:30:00	24/04/2023	19:45:00	45.3	44.7	42.7	39.2	56.1	57.3	54.0	47.7	56.9	65.2	44.2	47.6	48.3	45.2	44.4	37.1	31.8	32.3	29.8	28.7	31.5	34.6	24.2	10.7	11.8	11.0	10.1
24/04/2023	19:45:00	24/04/2023	20:00:00	50.6	43.3	40.9	39.0	60.8	58.5	55.4	50.5	57.2	63.7	47.0	49.5	50.2	46.4	45.4	37.3	35.1	35.6	35.5	35.5	35.6	36.2	32.5	30.0	26.0	23.9	16.4
24/04/2023	20:00:00	24/04/2023	20:15:00	48.8	48.1	45.2	37.4	60.4	57.9	54.9	51.8	57.6	61.2	45.7	48.1	48.0	43.9	42.6	35.2	28.3	27.1	25.3	25.1	25.8	27.0	17.6	12.1	12.8	9.1	9.1
24/04/2023	20:15:00	24/04/2023	20:30:00	46.5	43.6	46.9	38.1	57.4	58.2	55.5	55.1	59.7	64.9	46.1	49.7	51.4	45.0	42.6	36.2	30.4	31.9	31.0	31.4	31.1	30.2	20.4	13.1	14.7	9.9	10.2
24/04/2023	20:30:00	24/04/2023	20:45:00	40.9	43.5	44.0	35.7	59.5	58.4	54.6	58.1	57.5	62.3	42.8	49.4	49.3	44.9	41.4	35.4	28.0	27.1	24.6	24.7	26.5	27.1	28.4	25.6	29.6	19.8	23.8
24/04/2023	20:45:00	24/04/2023	21:00:00	40.0	53.7	50.1	48.4	60.9	57.8	55.2	54.2	58.1	64.2	43.5	48.8	49.3	47.6	45.7	38.6	31.4	32.4	30.4	31.4	33.1	34.4	23.0	14.0	14.3	10.3	8.9
24/04/2023	21:00:00	24/04/2023	21:15:00	42.4	44.4	40.7	36.5	58.1	58.9	55.4	46.8	57.6	64.2	47.8	47.6	50.9	48.2	45.8	37.2	30.5	31.6	30.0	31.4	29.8	31.1	22.2	18.5	17.3	14.2	11.9
24/04/2023	21:15:00	24/04/2023	21:30:00	45.8	44.1	42.0	41.8	54.6	53.4	51.5	46.1	55.4	62.9	44.5	43.5	43.3	48.0	48.3	33.8	26.5	29.2	25.7	24.1	32.2	32.6	20.0	11.0	14.6	10.4	8.8
24/04/2023	21:30:00	24/04/2023	21:45:00	49.2	44.9	44.7	38.6	44.9	31.3	29.9	39.6	36.7	42.4	28.9	28.7	25.0	20.8	23.9	19.9	14.3	17.4	21.4	11.8	16.1	17.2	13.6	16.3	19.6	14.5	13.8
24/04/2023	21:45:00	24/04/2023	22:00:00	42.6	37.9	38.4	34.8	38.4	41.1	28.8	31.9	41.3	41.4	26.5	26.2	24.0	20.2	22.9	22.9	21.2	21.0	20.7	23.5	25.6	22.4	19.3	15.1	11.4	10.8	9.7
24/04/2023	22:00:00	24/04/2023	22:15:00	41.5	41.0	39.7	43.5	43.7	41.2	35.8	38.2	36.7	41.5	26.2	28.3	28.4	26.3	17.4	17.6	15.2	17.1	17.6	9.8	10.4	8.8	9.6	11.7	14.8	12.3	12.2
24/04/2023	22:15:00	24/04/2023	22:30:00	42.9	41.8	42.0	40.2	52.3	49.0	36.8	34.8	36.5	38.5	29.0	26.9	26.3	24.3	23.8	21.0	19.5	18.5	19.5	15.9	14.3	16.1	13.7	14.6	13.7	11.6	10.0
24/04/2023	22:30:00	24/04/2023	22:45:00	36.6	36.9	42.1	39.9	38.5	30.9	26.3	29.9	32.4	37.8	29.0	22.3	23.7	20.4	19.0	25.3	25.2	24.5	22.4	16.7	15.2	19.0	15.2	13.2	13.4	9.9	8.8
24/04/2023	22:45:00	24/04/2023	23:00:00	41.1	39.5	38.2	36.6	31.1	35.6	23.9	36.4	38.7	39.2	20.4	22.7	20.9	22.6	19.2	23.6	24.3	23.4	25.8	25.8	26.9	25.6	15.8	13.3	15.9	9.4	9.0
24/04/2023	23:00:00	24/04/2023	23:15:00	36.1	37.4	36.8	37.8	31.7	29.5	21.7	28.2	29.1	28.7	21.1	17.2	20.1	14.9	12.6	16.0	15.3	16.2	16.6	15.5	14.0	11.3	9.4	12.7	13.6	10.4	8.8
24/04/2023	23:15:00	24/04/2023	23:30:00	41.6	35.1	35.3	34.9	32.3	29.4	30.4	27.1	44.3	48.1	20.8	27.8	28.6	17.3	18.5	13.7	10.5	15.9	16.5	10.2	10.2	11.2	11.4	13.3	15.3	9.4	8.9
24/04/2023	23:30:00	24/04/2023	23:45:00	46.9	36.6	39.4	35.7	28.7	38.8	25.6	28.1	28.5	30.3	24.8	26.3	22.8	24.8	21.5	25.7	25.6	22.9	22.8	21.7	20.8	17.6	11.7	12.6	14.0	9.1	8.8

24/04/2023	23:45:00	25/04/2023	00:00:00	44.4	44.4	42.6	40.7	37.7	35.3	27.9	26.7	30.3	34.6	21.8	22.0	23.4	21.3	20.5	17.6	15.6	14.3	14.5	15.2	14.7	18.1	20.3	21.7	22.2	17.0	16.5
25/04/2023	00:00:00	25/04/2023	00:15:00	38.7	37.4	37.7	35.2	34.5	35.0	25.3	32.0	31.9	37.0	29.6	29.4	28.0	25.9	22.6	20.8	18.0	18.4	15.8	10.5	12.0	11.5	17.7	17.3	15.6	12.3	12.4
25/04/2023	00:15:00	25/04/2023	00:30:00	39.1	33.3	39.9	36.1	32.3	34.0	37.8	37.8	37.4	40.5	28.5	26.2	27.1	27.5	23.6	28.1	27.2	24.3	24.8	25.1	24.8	20.8	12.5	20.1	12.7	9.7	8.9
25/04/2023	00:30:00	25/04/2023	00:45:00	37.9	35.6	35.8	32.8	29.7	32.4	27.4	31.8	31.0	31.6	21.4	23.8	23.4	23.2	23.3	23.8	22.7	24.1	22.4	23.8	25.8	28.0	22.7	19.3	20.0	15.8	13.9
25/04/2023	00:45:00	25/04/2023	01:00:00	48.0	42.1	40.2	40.6	32.7	29.9	29.4	35.5	33.3	41.8	48.3	45.4	40.8	38.4	42.0	40.2	42.7	42.0	43.4	41.8	41.3	39.7	39.0	39.2	36.0	30.4	22.3
25/04/2023	01:00:00	25/04/2023	01:15:00	38.3	37.0	34.4	34.6	27.9	28.4	21.7	24.0	25.7	27.2	26.4	26.2	24.6	26.0	21.9	27.4	27.1	24.8	25.0	25.4	25.0	21.7	12.5	12.4	12.8	9.5	9.0
25/04/2023	01:15:00	25/04/2023	01:30:00	34.8	33.7	36.9	32.7	28.7	27.3	20.8	27.4	25.6	29.5	25.9	30.8	34.3	38.0	30.8	28.0	30.3	25.9	28.9	31.6	32.2	30.5	29.2	31.2	20.5	18.4	15.7
25/04/2023	01:30:00	25/04/2023	01:45:00	37.6	30.6	33.9	33.5	27.5	26.4	28.2	31.5	36.6	36.2	37.9	37.8	35.5	39.1	43.0	43.3	39.3	41.1	41.3	41.8	44.5	41.6	37.0	34.4	31.1	27.9	22.5
25/04/2023	01:45:00	25/04/2023	02:00:00	41.0	33.7	35.7	36.5	34.1	37.2	23.5	29.7	28.9	33.8	20.4	21.3	22.2	20.0	19.3	15.9	14.5	14.5	15.9	15.3	16.3	10.1	9.3	13.8	13.4	9.8	9.0
25/04/2023	02:00:00	25/04/2023	02:15:00	33.6	35.7	35.5	36.6	24.4	27.2	25.1	31.9	30.5	39.0	43.8	41.9	37.9	38.9	43.7	43.1	46.5	47.3	48.7	49.3	51.1	50.8	43.3	36.6	42.5	41.7	27.6
25/04/2023	02:15:00	25/04/2023	02:30:00	33.5	30.5	33.1	35.2	26.7	28.8	20.0	22.2	31.6	34.8	29.6	29.6	25.4	22.6	19.1	18.2	16.7	17.3	17.4	16.4	17.5	14.6	9.6	11.7	14.0	13.3	9.7
25/04/2023	02:30:00	25/04/2023	02:45:00	34.5	33.6	37.5	35.1	29.0	34.7	29.8	38.7	44.7	43.9	50.5	55.9	52.2	53.2	50.6	53.9	55.1	56.1	58.0	52.5	47.3	45.3	40.5	37.8	34.6	25.7	18.0
25/04/2023	02:45:00	25/04/2023	03:00:00	36.9	30.1	27.0	27.8	24.7	26.5	25.2	30.9	33.1	40.6	24.7	25.5	25.1	25.8	26.2	27.7	26.8	32.0	33.8	28.5	28.4	23.6	19.9	20.1	18.9	15.3	11.3
25/04/2023	03:00:00	25/04/2023	03:15:00	47.4	45.4	38.4	35.0	25.8	25.2	21.3	24.3	22.6	25.3	20.0	23.9	23.9	17.1	16.6	28.6	23.6	23.0	25.7	22.5	25.1	26.0	25.9	25.5	21.6	14.6	14.4
25/04/2023	03:15:00	25/04/2023	03:30:00	36.9	35.0	32.6	28.8	24.5	25.5	22.0	21.4	23.0	26.1	24.8	26.2	23.6	24.9	20.7	25.6	25.8	24.1	23.8	24.2	24.1	21.1	12.4	13.4	11.8	8.9	8.8
25/04/2023	03:30:00	25/04/2023	03:45:00	37.5	30.1	35.7	33.5	29.2	31.9	26.7	33.9	32.2	38.0	30.7	36.4	36.8	32.4	29.5	28.5	26.6	23.0	25.3	24.5	19.6	17.6	14.4	13.2	13.6	10.1	8.9
25/04/2023	03:45:00	25/04/2023	04:00:00	35.3	29.8	35.1	30.6	28.5	25.7	21.6	23.0	22.0	26.4	25.5	25.2	25.2	26.4	19.5	25.9	26.0	24.3	24.0	24.8	25.2	22.4	21.1	26.5	27.0	25.8	20.2
25/04/2023	04:00:00	25/04/2023	04:15:00	32.7	29.6	34.5	34.9	30.1	32.9	23.2	26.1	27.3	31.1	24.2	21.0	20.0	17.7	17.4	18.6	21.6	18.7	20.9	21.1	20.0	13.7	10.6	13.2	11.5	10.0	8.8
25/04/2023	04:15:00	25/04/2023	04:30:00	35.3	32.6	35.7	35.0	32.6	25.3	25.4	39.0	30.3	31.6	26.7	26.6	24.7	27.3	34.5	37.2	32.3	28.1	30.7	38.4	38.5	41.5	42.5	48.4	49.0	42.4	38.6
25/04/2023	04:30:00	25/04/2023	04:45:00	34.3	33.1	34.1	32.4	26.6	30.1	24.3	32.4	34.6	37.8	42.4	40.7	38.1	36.5	39.0	37.3	37.9	37.7	39.2	37.4	36.3	33.1	32.0	30.0	26.6	19.3	11.6
25/04/2023	04:45:00	25/04/2023	05:00:00	37.3	37.2	35.2	36.6	38.1	33.7	25.1	26.2	34.9	37.9	34.5	32.9	34.7	39.9	32.9	32.1	32.1	27.3	29.4	32.7	34.1	32.4	31.0	33.3	23.5	21.5	18.8
25/04/2023	05:00:00	25/04/2023	05:15:00	45.4	36.1	36.3	34.5	33.9	28.3	24.3	31.6	31.9	34.3	31.0	29.3	24.0	21.9	22.9	22.4	21.0	20.6	21.5	24.0	27.6	31.2	20.9	20.8	19.2	15.0	10.7
25/04/2023	05:15:00	25/04/2023	05:30:00	40.1	38.6	34.6	35.4	31.4	24.5	25.5	26.2	24.6	28.9	20.9	28.0	25.1	25.8	20.3	25.5	25.9	25.0	24.3	25.9	26.0	23.2	13.1	12.8	11.4	11.0	10.0
25/04/2023	05:30:00	25/04/2023	05:45:00	40.5	38.8	37.0	36.4	29.2	30.8	27.6	28.8	33.3	35.5	24.8	24.5	18.9	13.7	18.7	11.3	9.2	8.8	6.8	7.0	10.0	11.4	12.3	14.1	13.2	10.2	8.9
25/04/2023	05:45:00	25/04/2023	06:00:00	38.8	36.7	37.5	38.6	30.3	32.7	23.7	33.3	34.7	36.8	21.6	24.2	25.7	26.4	24.5	25.4	25.1	23.5	22.6	23.3	23.0	20.4	15.5	13.1	15.0	10.5	10.5
25/04/2023	06:00:00	25/04/2023	06:15:00	39.0	41.4	38.6	35.5	32.1	32.0	28.9	30.8	30.1	34.0	26.4	29.1	28.5	27.0	22.8	24.2	24.9	23.8	22.7	23.3	25.1	20.8	14.2	12.2	11.5	9.2	9.8
25/04/2023	06:15:00	25/04/2023	06:30:00	45.6	39.9	38.2	38.5	34.4	37.6	33.6	33.9	39.5	36.7	41.5	45.0	44.3	47.9	47.1	49.5	48.6	45.4	47.6	42.4	40.4	40.2	35.0	33.0	29.2	22.2	15.2
25/04/2023	06:30:00	25/04/2023	06:45:00	44.1	38.5	39.8	37.6	41.0	43.7	35.4	34.6	31.5	35.7	22.1	21.5	20.3	25.0	20.9	34.2	29.8	25.8	23.5	30.6	28.0	18.7	15.2	19.9	20.0	19.1	20.4
25/04/2023	06:45:00	25/04/2023	07:00:00	42.2	47.2	46.6	40.2	39.4	33.2	34.2	41.6	36.5	38.0	25.8	28.9	24.2	25.1	21.0	24.5	24.8	24.4	23.0	24.3	24.1	21.4	14.0	12.8	13.7	9.4	9.1
25/04/2023	07:00:00	25/04/2023	07:15:00	51.0	43.6	40.8	37.1	37.3	31.6	26.2	33.6	29.3	33.2	25.5	23.8	22.8	23.7	22.0	23.6	24.0	23.8	22.1	23.5	24.7	22.5	20.6	20.7	18.0	13.8	11.2
25/04/2023	07:15:00	25/04/2023	07:30:00	44.7	45.1	46.0	35.7	32.8	34.7	28.2	31.2	42.8	43.8	24.7	24.0	24.0	20.9	22.7	26.9	26.0	23.6	23.6	21.7	16.8	19.8	15.3	16.1	13.1	10.1	9.3
25/04/2023	07:30:00	25/04/2023	07:45:00	52.4	55.0	43.7	37.6	38.0	43.5	33.0	47.7	47.5	50.2	50.6	49.3	48.7	45.2	37.8	38.5	38.3	39.3	37.0	34.3	31.9	30.8	26.8	22.8	18.1	14.7	9.1
25/04/2023	07:45:00	25/04/2023	08:00:00	55.4	52.6	47.3	50.1	37.1	38.8	29.7	37.6	43.1	47.3	30.3	26.1	26.0	21.6	17.4	12.8	15.4	15.5	14.1	14.3	18.6	18.2	13.6	10.6	10.9	9.0	8.8
25/04/2023	08:00:00	25/04/2023	08:15:00	46.8	43.5	43.6	36.7	34.1	40.9	29.8	30.4	31.8	40.4	29.4	33.2	23.8	19.9	15.0	16.5	16.0	17.4	18.5	20.9	19.4	18.1	15.4	15.0	16.9	15.8	17.6
25/04/2023	08:15:00	25/04/2023	08:30:00	53.6	55.4	50.8	44.4	53.7	51.3	38.8	41.9	36.0	42.9	37.4	30.6	32.6	25.8	26.1	46.9	33.0	36.3	36.4	29.7	35.6	32.1	20.6	15.0	15.9	9.3	9.0
25/04/2023	08:30:00	25/04/2023	08:45:00	51.7	47.0	49.2	39.7	46.4	39.4	31.4	32.5	37.3	40.9	27.8	28.5	27.9	31.6	34.7	33.1	30.5	26.8	32.3	33.0	29.1	28.3	21.7	18.6	15.1	11.7	10.4
25/04/2023	08:45:00	25/04/2023	09:00:00	49.6	44.1	45.7	44.6	37.7	36.0	31.1	36.3	36.0	37.9	27.3	27.3	25.9	25.0	25.0	22.3	22.0	19.9	17.5	18.6	18.0	18.1	14.8	11.7	12.1	10.8	9.1
25/04/2023	09:00:00	25/04/2023	09:15:00	44.5	40.8	45.4	44.1	31.9	34.3	26.4	27.4	32.1	35.9	27.4	26.4	26.0	24.3	24.4	22.7	18.1	19.6	21.3	17.6	18.5	18.5	15.1	11.6	11.4	10.1	10.7
25/04/2023	09:15:00	25/04/2023	09:30:00	47.7	43.8	43.1	45.4	36.6	44.5	30.2	34.2	37.1	39.0	23.7	26.8	20.9	29.6	29.6	17.4	20.1	18.8	18.5	18.4	17.6	15.5	12.0	11.3	11.9	9.3	9.0
25/04/2023	09:30:00	25/04/2023	09:45:00	51.7	55.1	47.0	42.8	47.9	50.7	45.2	55.8	46.4	50.4	47.3	37.8	42.0	34.3	29.7	31.6	26.0	28.1	22.2	22.7	25.2	26.0	25.4	27.3	17.8	14.3	10.8