Prüfbericht-Nr.: *Test report no.:*	**CN214AJL 001**	**Auftrags-Nr.:** *Order no.:*	168331356	Seite 1 von 24 *Page 1 of 24*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2021-08-12	
Auftraggeber: *Client:*	**Lenovo (Beijing) Limited** No.6 Chuang Ye Road, Shangdi Information Industry Base, Haidian District, Beijing, China			
Prüfgegenstand: *Test item:*	Lenovo Go Wireless ANC Headset			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	L12WL (Trademark: Lenovo)			
Auftrags-Inhalt: *Order content:*	Type test			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2.1093			
Wareneingangsdatum: *Date of sample receipt:*	2021-08-17	Refer to photos document		
Prüfmuster-Nr.: *Test sample no.:*	A003110864			
Prüfzeitraum: *Testing period:*	2021-08-27 - 2021-09-07			
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von: *tested by:*	X Alex Lan	**genehmigt von:** *authorized by:*	X Winnie Hou
Datum: *Date:* 2021-10-28	Signed by: Alex Lan	**Ausstellungsdatum:** *Issue date:* 2021-10-28	Signed by: Winnie Hou
Stellung / Position	Senior Project Engineer	**Stellung** / Position	Department Manager

Sonstiges / *Other:* FCC ID: A5ML12WL

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:* Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged:*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specifications(s)		*F(ail) = failed a.m. test specifications(s)*	*N/A = not applicable*	*N/T = not tested*

TÜV Rheinland (Shenzhen) Co., Ltd. 1601 R&D Room, 1602-1604, 17-18F, Building 7 Site C, Vanke Cloud City Phase I, Xingke First Street, Xili Street, Xili Community, Nanshan District, Shenzhen 518052, P.R. China
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Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.5 20DB BANDWIDTH
RESULT: Pass

5.1.6 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.7 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.8 TIME OF OCCUPANCY
RESULT: Pass

5.1.9 CONDUCTED EMISSION ON AC MAINS
RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Conducted Testing

Appendix C: Test Results of Radiated Testing & AC Mains Conducted Emission

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Conducted Emissions				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR3	102680	2022-05-19
Artificial Mains Network	R&S	ENV216	101445	2022-05-19
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A
Radio Spectrum Testing				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Wireless Connectivity Tester	R&S	CMW270	101375	2022-08-09
Signal Analyzer	R&S	FSV 40	101441	2022-08-09
Vector Signal Generator	R&S	SMBV100A	263301	2022-08-09
Signal Generator	R&S	SMB100A	115186	2022-08-09
OSP	R&S	OSP 150	101017	2021-12-10
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	2021-12-10
Power Sensor	R&S	NRP-Z81	105677	2022-08-09
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	2022-04-02
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged	Steatite	QMS-00880	19067	2022-08-08

Horn Antenna (18-40 GHz)				
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Item		Extended Uncertainty
Conducted Emission		± 2.74 dB
Radiated Emission (30-1000MHz)	Field strength (dBμV/m)	4.27dB
Radiated Emission (above 1000MHz)	Field strength (dBμV/m)	4.46dB
Radio Spectrum		± 1.5 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Lenovo Go Wireless ANC Headset which supports Bluetooth dual mode technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	**Value**
Kind of Equipment	Lenovo Go Wireless ANC Headset
Type Designation	L12WL
Trade Mark	Lenovo
FCC ID	A5ML12WL
Operating Voltage	DC 3.85V via built-in battery or DC 5V via charging stand or DC 5V via Type-C port with adapter
Technical Specification of Bluetooth	
Technical Specification	**Value**
Operating Frequency	2402 - 2480 MHz
Type of Modulation	GFSK, π/4DQPSK, 8DPSK
Channel Number	BDR & EDR mode:79 channels
Channel Separation	BDR & EDR mode:1MHz
Antenna Type	Ceramic antenna
Max. Antenna Gain	1.71 dBi
Technical Specification of Bluetooth Low Energy	
Technical Specification	**Value**
Operating Frequency band	2402 – 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	Ceramic antenna
Max. Antenna Gain	1.71 dBi

Table 3: RF Channel and Frequency of Classic Bluetooth (BDR & EDR)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	**2402.00**	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	**78**	**2480.00**
19	2421.00	**39**	**2441.00**	59	2461.00		

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	**2402.00**	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	**19**	**2440.00**	29	2460.00	**39**	**2480.00**

3.3 Independent Operation Modes

The basic operation modes are:

A. On
   1. Bluetooth transmitting mode (BDR & EDR mode)
      a) Low Channel
      b) Middle Channel
      c) High Channel

B. On, Transmitting on Hopping channel

C. On, Bluetooth connecting mode

D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- Schematics
- Technical Description
- FCC/IC Label and Location Info
- Photo Document
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Rating
Notebook	Lenovo	ThinkPad 260	PC0GP71G

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

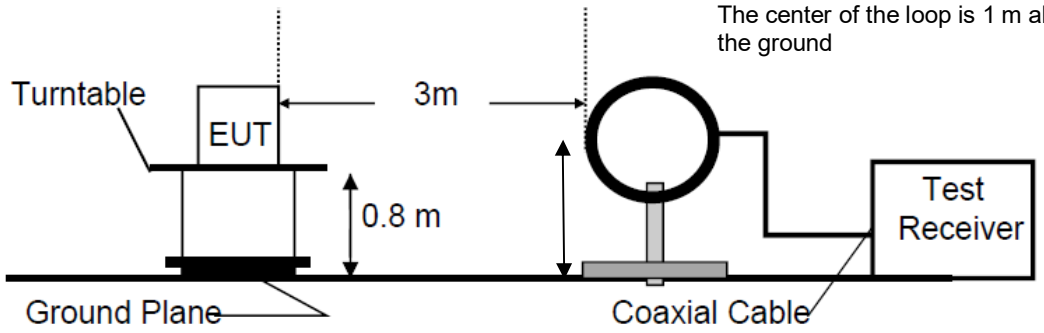


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

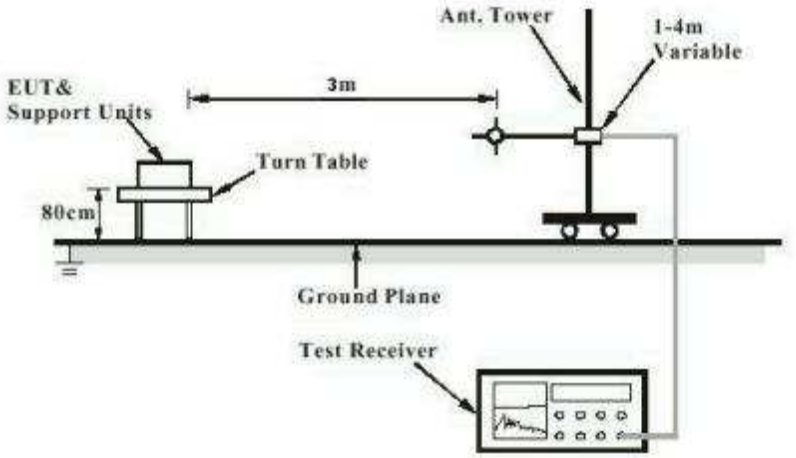


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

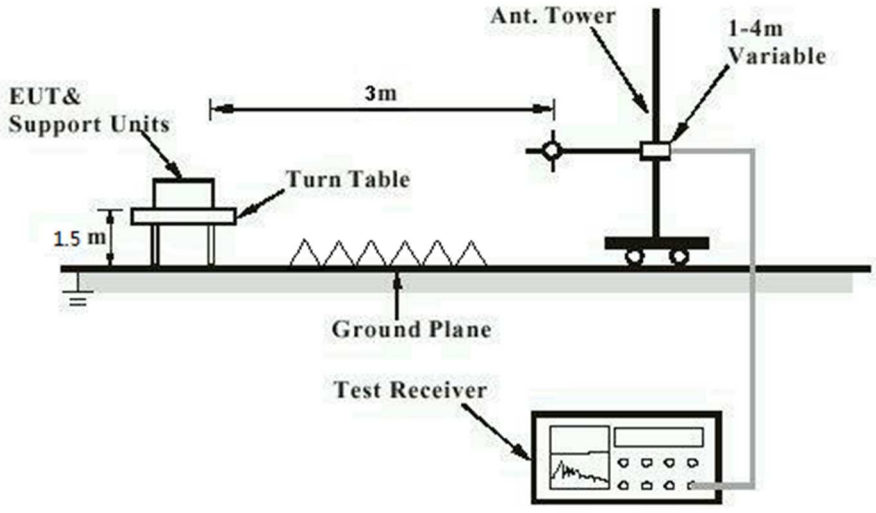


Diagram of Measurement Configuration for Mains Conduction Measurement

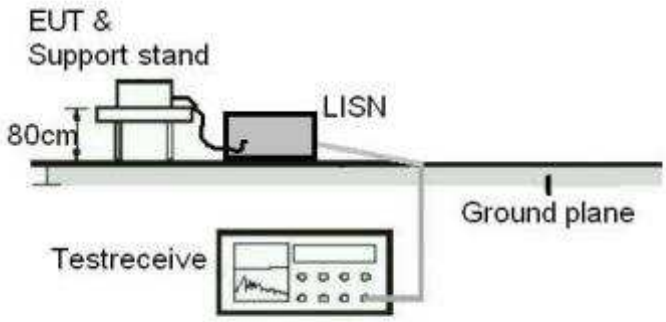
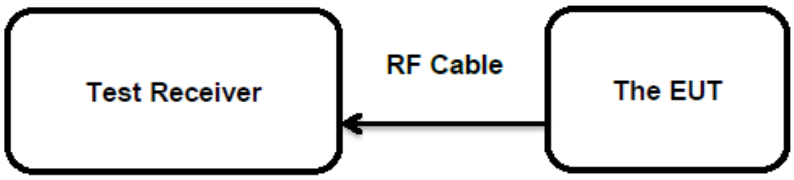


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an integral antenna, the directional gain of antenna is 1.71 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FHSS<0.125W(Maximum peak conducted output power) < 4 W (e.i.r.p.)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-08-30
Input voltage	:	battery
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 6: Test Result of Maximum Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Measured Average Output Power		Limit (W)
		(dBm)	(W)	(dBm)	(W)	
BDR	2402	9.0	0.00794	8.8	0.00759	< 0.125
	2441	8.9	0.00776	8.5	0.00708	
	2480	9.1	0.00813	8.8	0.00759	
EDR	2402	11.3	0.01349	8.7	0.00741	< 0.125
	2441	11.0	0.01259	8.3	0.00676	
	2480	11.5	0.01413	8.6	0.00724	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 13.21 dBm less than 4W(36dBm).

5.1.3 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-09-03
Input voltage	:	battery
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

5.1.4 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2021-08-31
Input voltage	:	battery
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	50 %
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix C.

5.1.5 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-08-30
Input voltage	:	battery
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 7: Test Result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	925	616.667	/
	2441	930	620.000	
	2480	930	620.000	
EDR	2402	1295	863.333	/
	2441	1295	863.333	
	2480	1295	863.333	

For the measurement records, refer to the appendix B.

5.1.6 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-08-30
Input voltage	:	battery
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 8: Test Result of Carrier Frequency Separation

Test Mode	Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
BDR	Low Channel	2402.054455	0.980198	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
	Adjacency Channel	2403.034653			
	Middle Channel	2441.054455	0.980198		Pass
	Adjacency Channel	2442.034653			
	High Channel	2479.054455	1.009901		Pass
	Adjacency Channel	2480.064356			
EDR	Low Channel	2402.054455	1.009901	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
	Adjacency Channel	2403.064356			
	Middle Channel	2441.084158	0.980198		Pass
	Adjacency Channel	2442.064356			
	High Channel	2479.084158	0.980198		Pass
	Adjacency Channel	2480.064356			

Note:

The limit is maximum 2/3 of the 20 dB bandwidth: 863.333 kHz.

For the measurement records, refer to the appendix B.

5.1.7 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-08-30
Input voltage	:	battery
Operation mode	:	B
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 9: Test Result of Number of Hopping Frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	≥15	Pass

For the measurement records, refer to the appendix B.

5.1.8 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-08-30
Input voltage	:	Battery
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 10: Test Result of Time of Occupancy

Test Mode	Channel	Data Packet	Pulse width (ms)	Measured Dwell time(s)	Limit (s)
BDR	2441	DH1	0.397	0.127	< 0.4s
		DH3	1.653	0.264	
		DH5	2.901	0.309	
EDR	2441	3DH1	0.407	0.130	< 0.4s
		3DH3	1.656	0.265	
		3DH5	2.908	0.310	

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 x 79 (channel) = 31.6 seconds

5.1.9 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a)
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-09-07
Input voltage	:	AC 120V, 60Hz
Operation mode	:	C
Earthing	:	Not connected
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix C.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Pass**

Test Specification

Test standard	:	CFR47 FCC Part 2.1093
		FCC KDB Publication 447498 v06
Limit	:	CFR47 FCC Part 1.1310

The measured maximum conducted average output power of the EUT is 8.8 dBm ≈ 7.59 mW, which is below the SAR exclusion threshold level 10mW (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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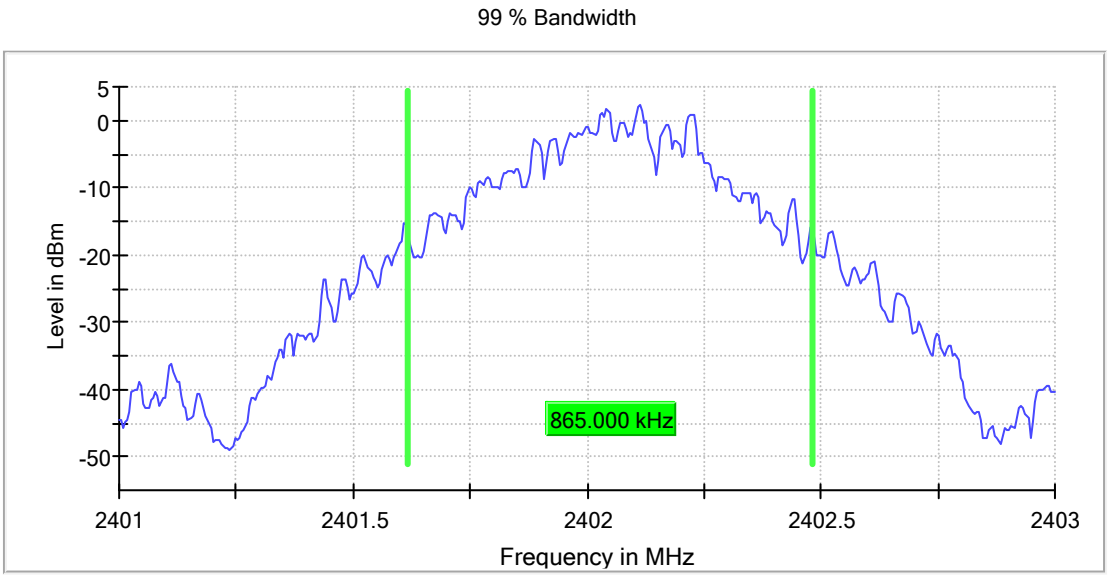
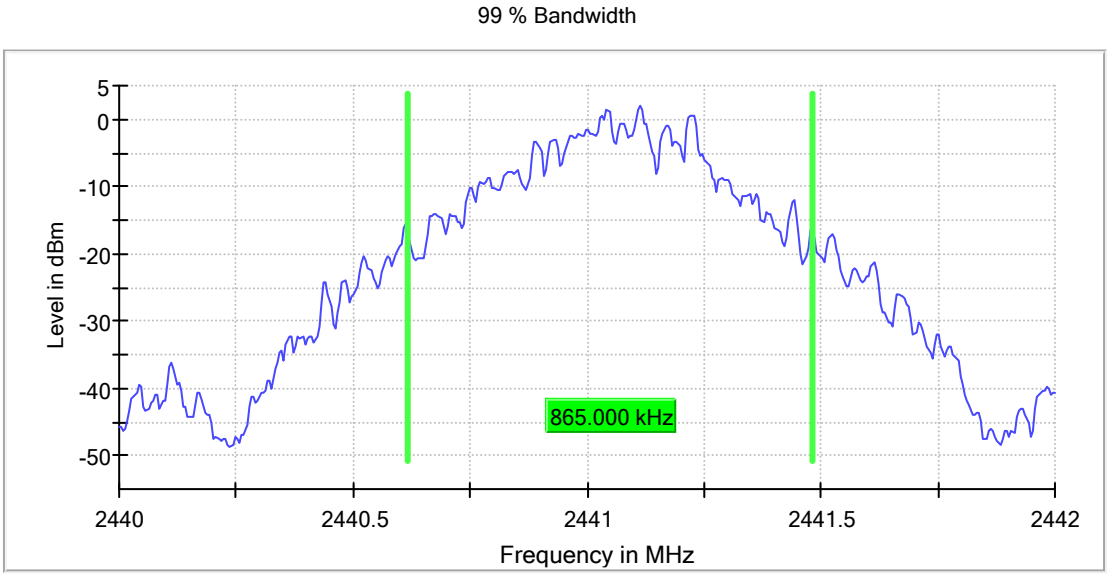
Appendix B.1: Test Plots of 99% Bandwidth

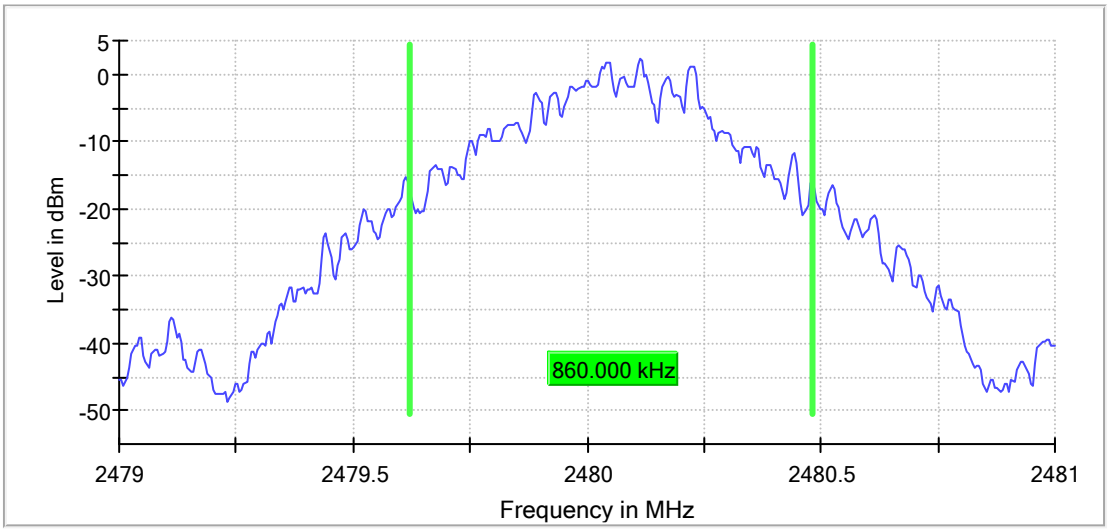
BDR Mode, DH1

RBW=10kHz, VBW=30kHz





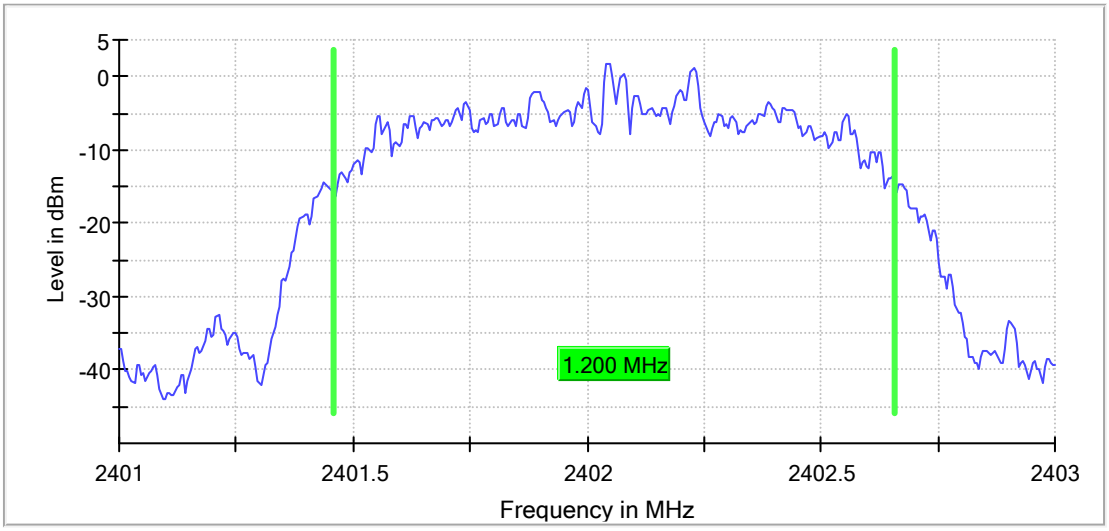
99 % Bandwidth



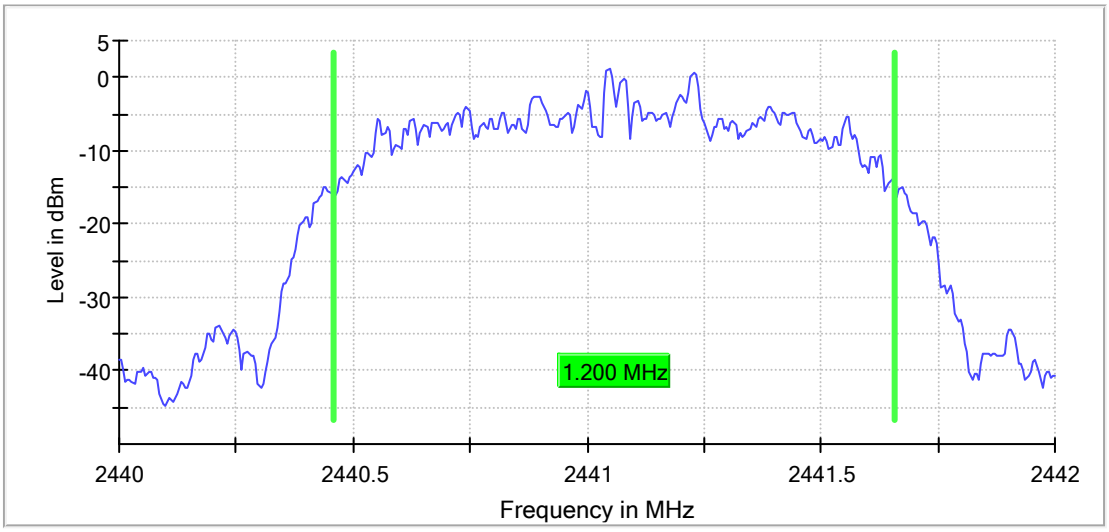
EDR Mode, 3DH1

RBW=30kHz VBW=100kHz

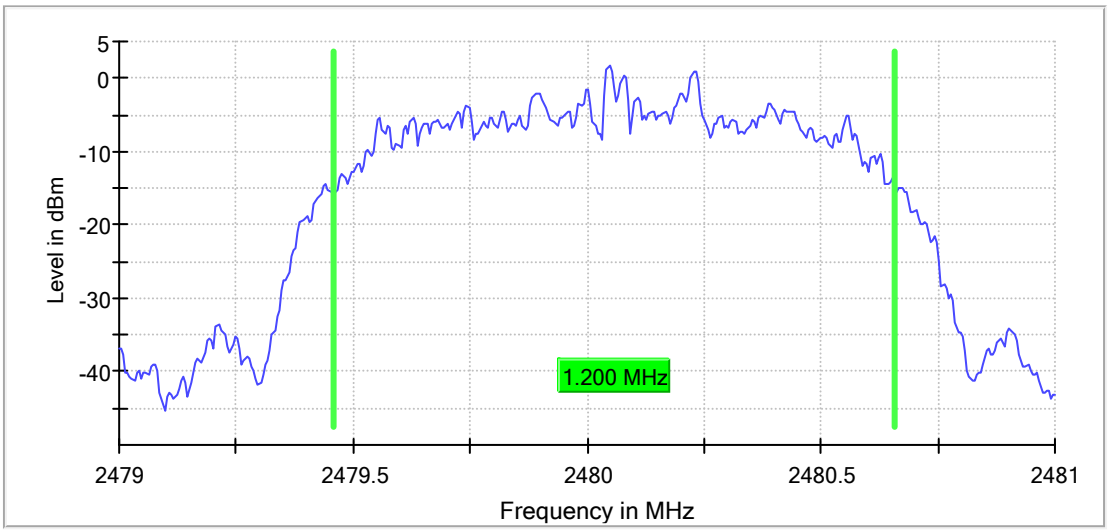
99 % Bandwidth



99 % Bandwidth



99 % Bandwidth

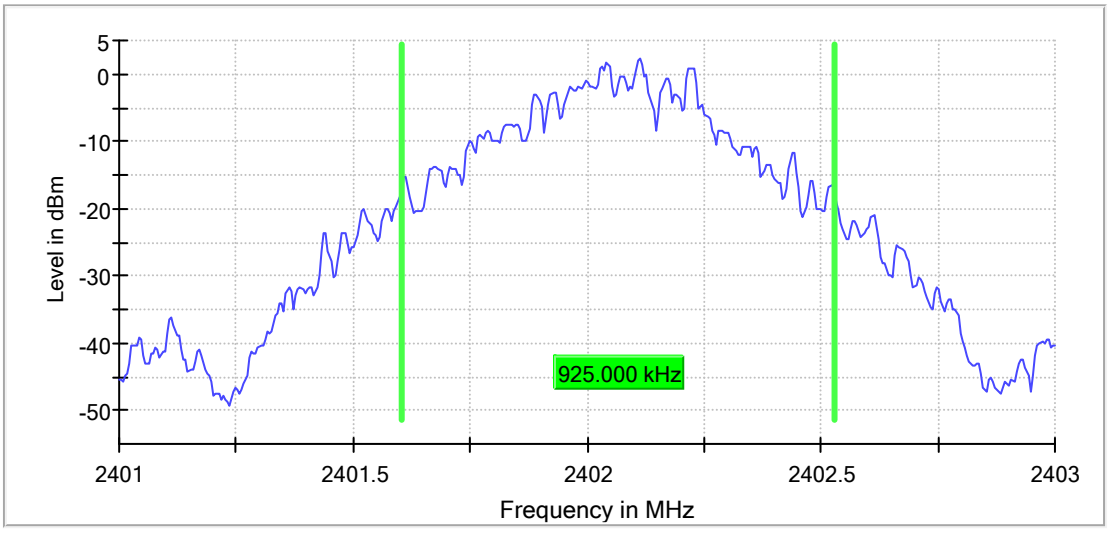


Appendix B.2: Test Plots of 20dB Bandwidth

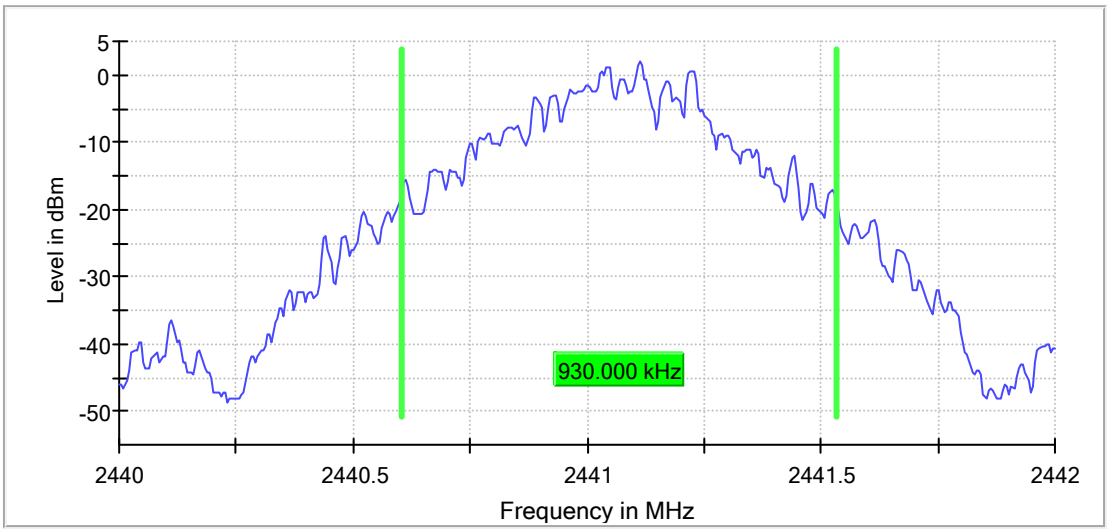
BDR Mode, DH1

RBW=10kHz VBW=30kHz

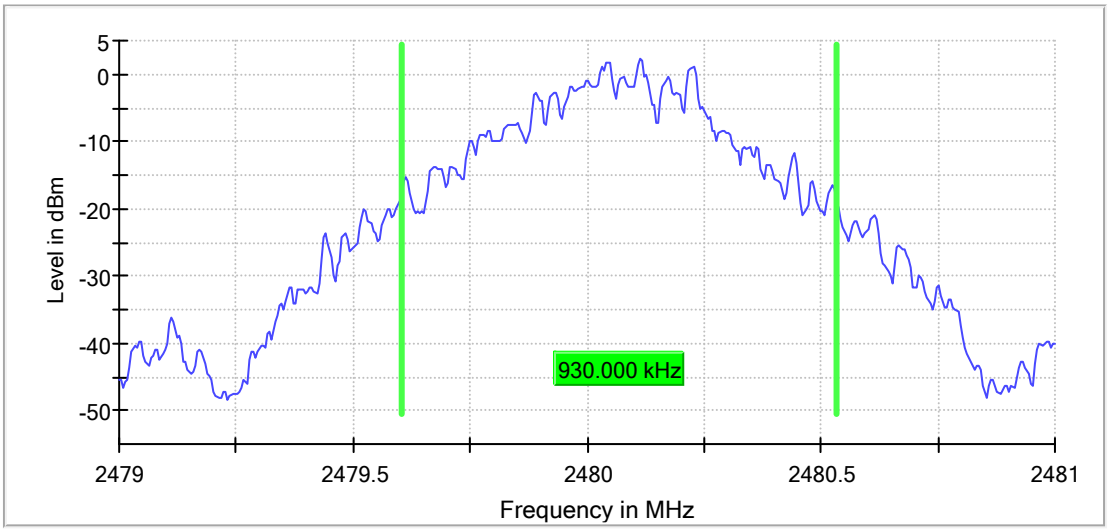
20 dB Bandwidth



20 dB Bandwidth



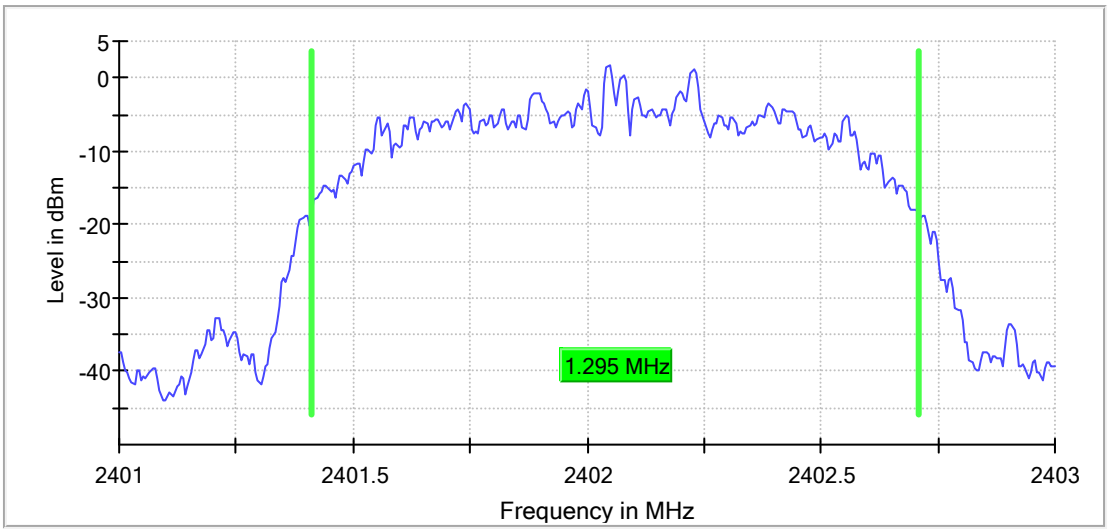
20 dB Bandwidth



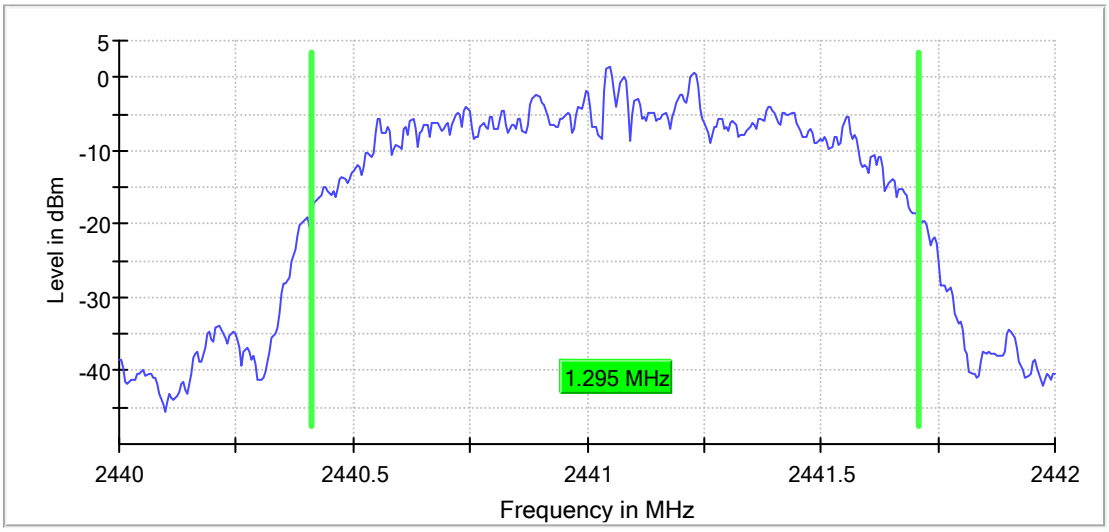
EDR Mode, 3DH1

RBW=30kHz VBW=100kHz

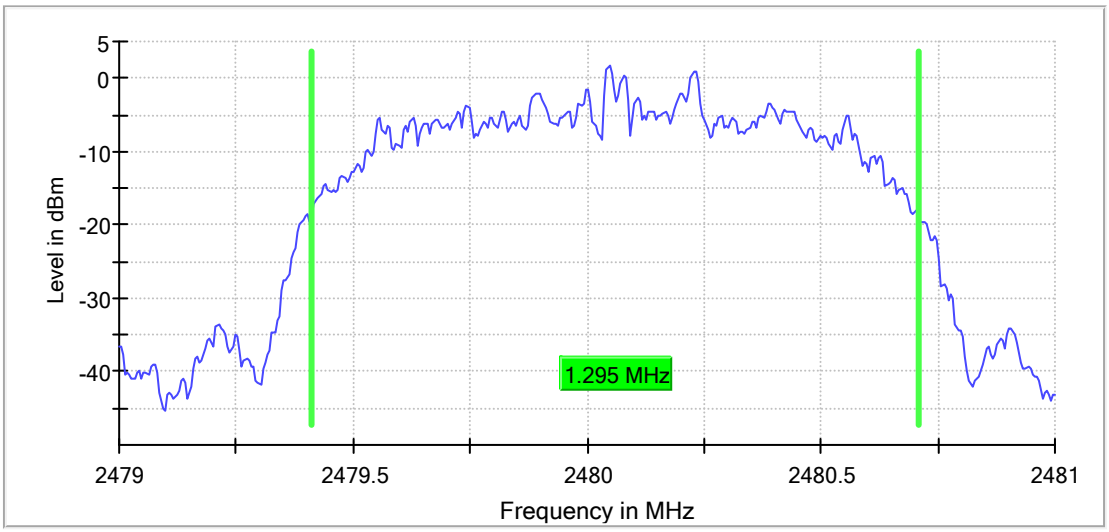
20 dB Bandwidth



20 dB Bandwidth

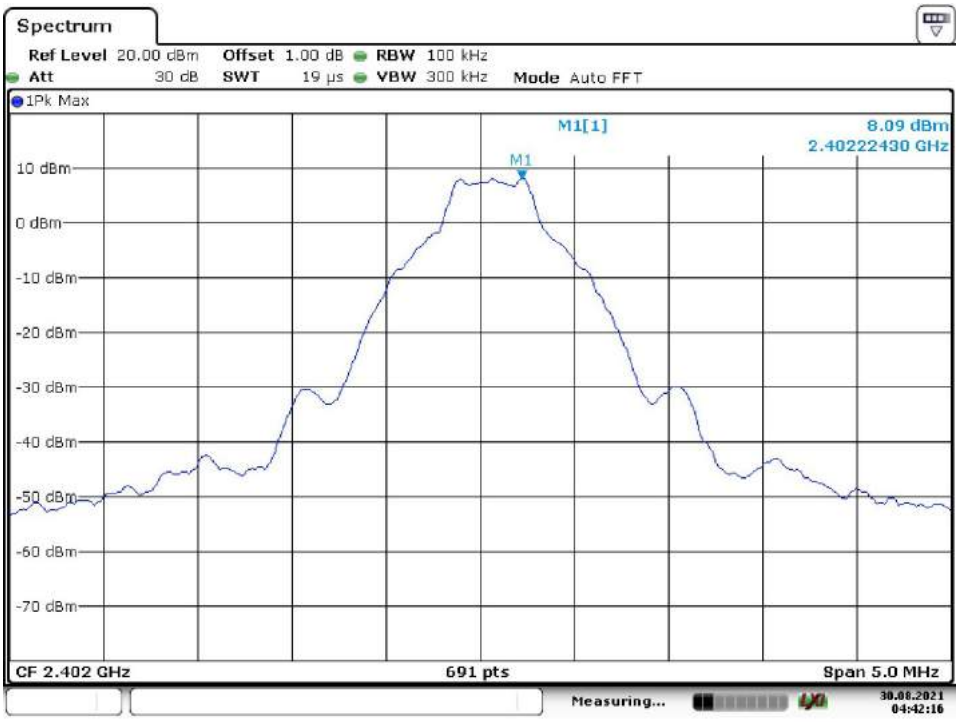


20 dB Bandwidth

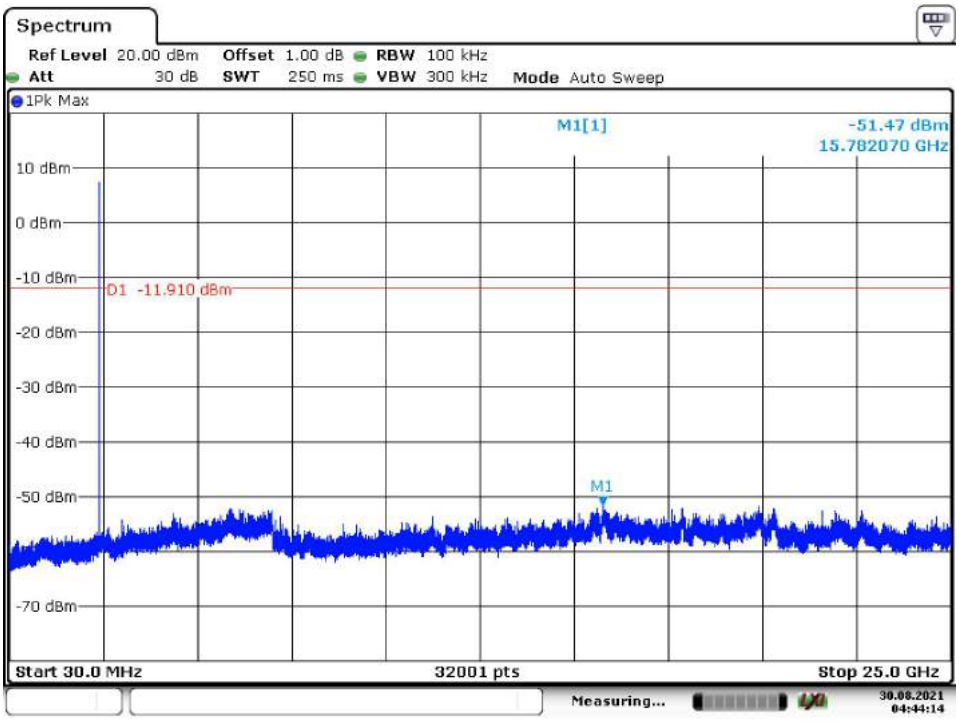


Appendix B.3: Test Plots of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

BDR Mode, Low Channel

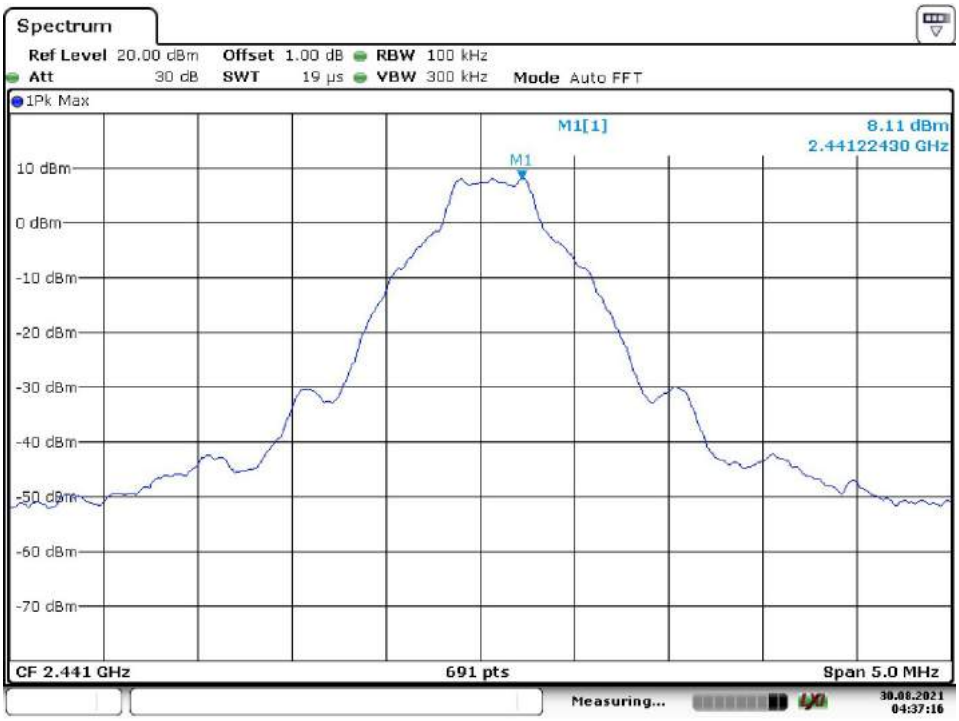


Date: 30.AUG.2021 04:42:16

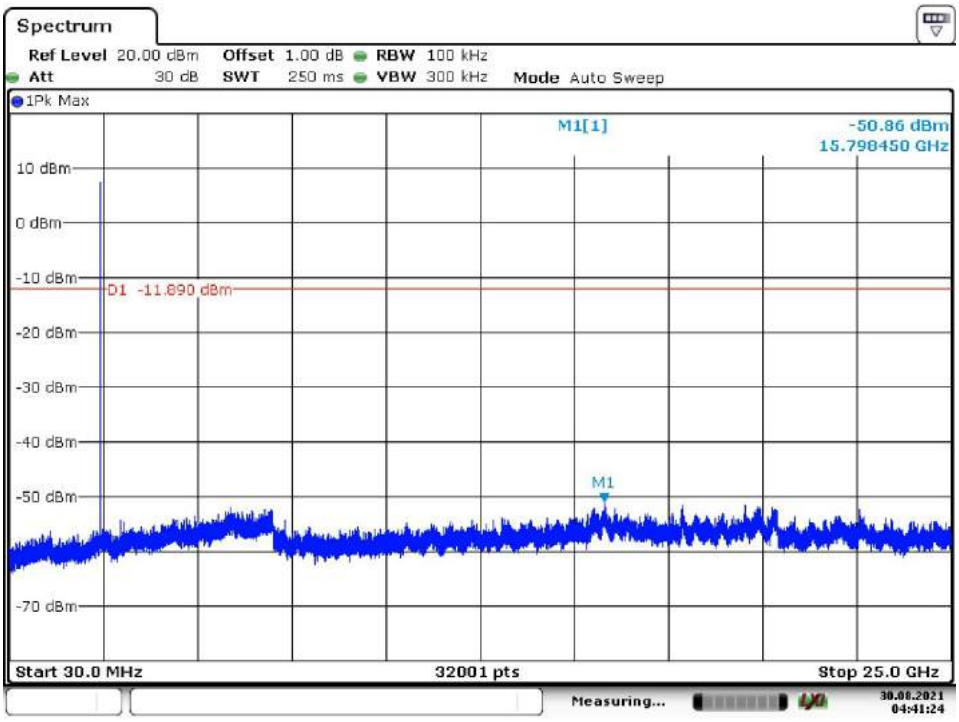


Date: 30.AUG.2021 04:44:15

BDR Mode, Middle Channel



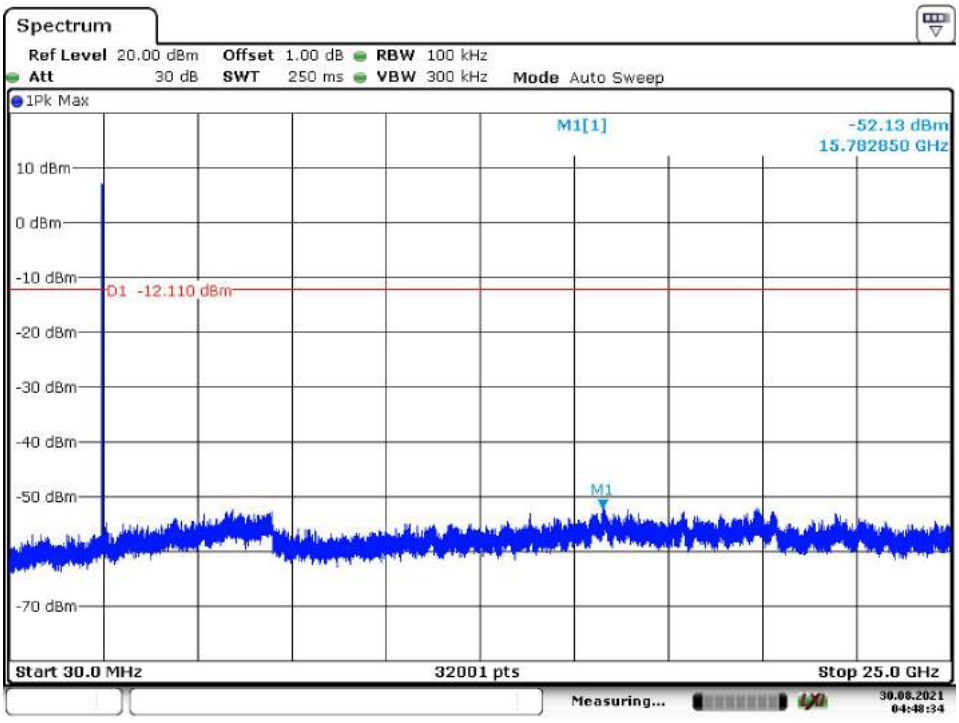
Date: 30.AUG.2021 04:37:16



Date: 30.AUG.2021 04:41:24

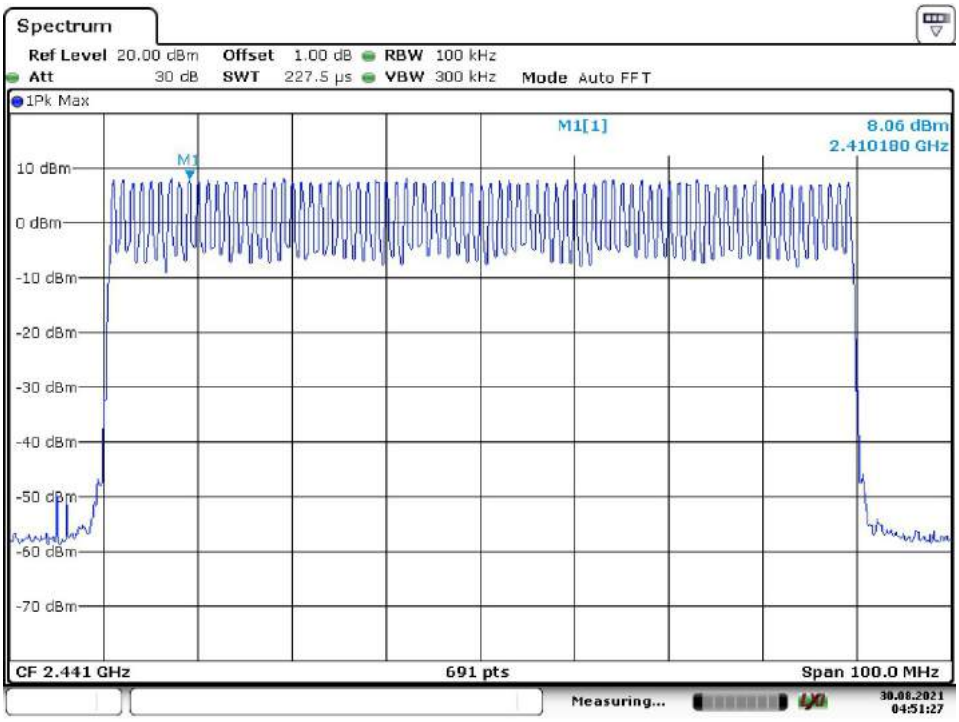
BDR Mode, High Channel

Date: 30.AUG.2021 04:46:53

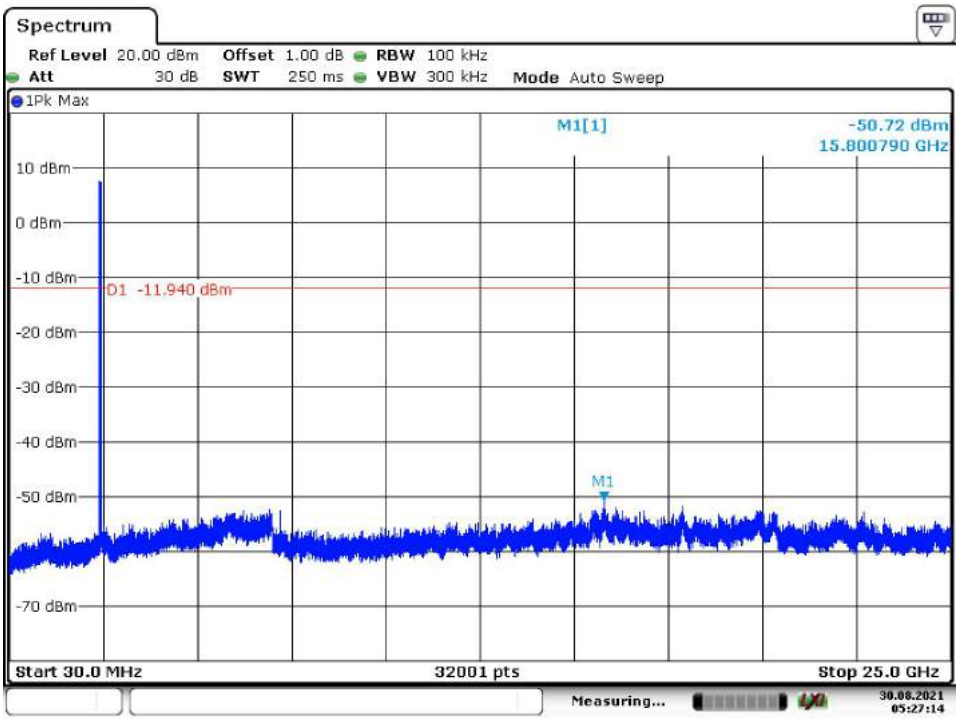


Date: 30.AUG.2021 04:48:34

BDR, Hopping



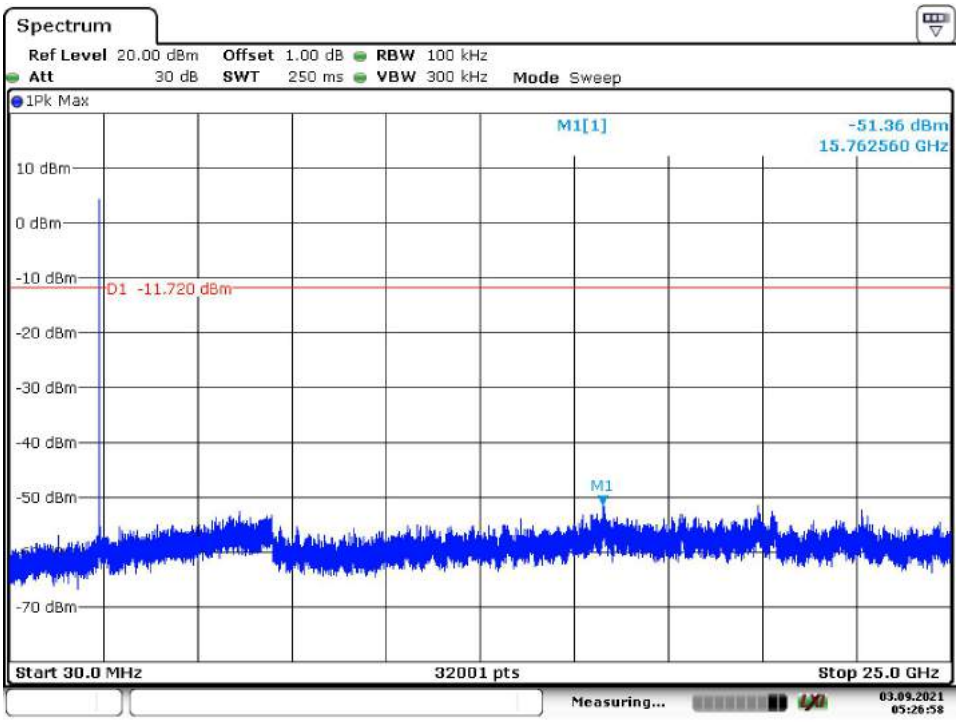
Date: 30.AUG.2021 04:51:27



Date: 30.AUG.2021 05:27:14

EDR Mode, Low Channel

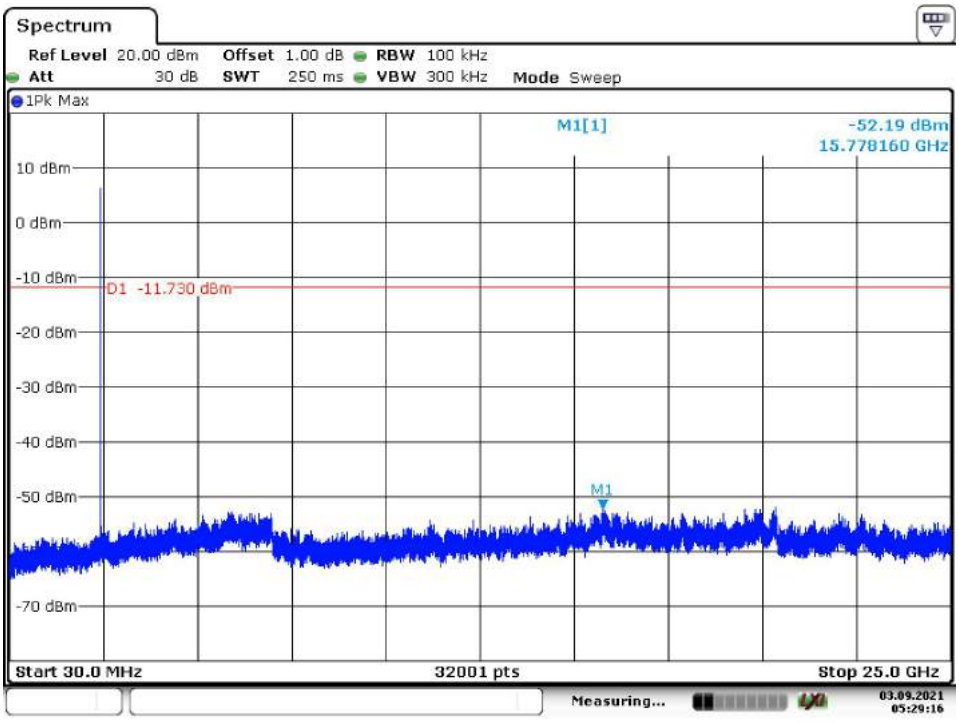
Date: 3.SEP.2021 05:23:49



Date: 3.SEP.2021 05:26:58

EDR Mode, Middle Channel

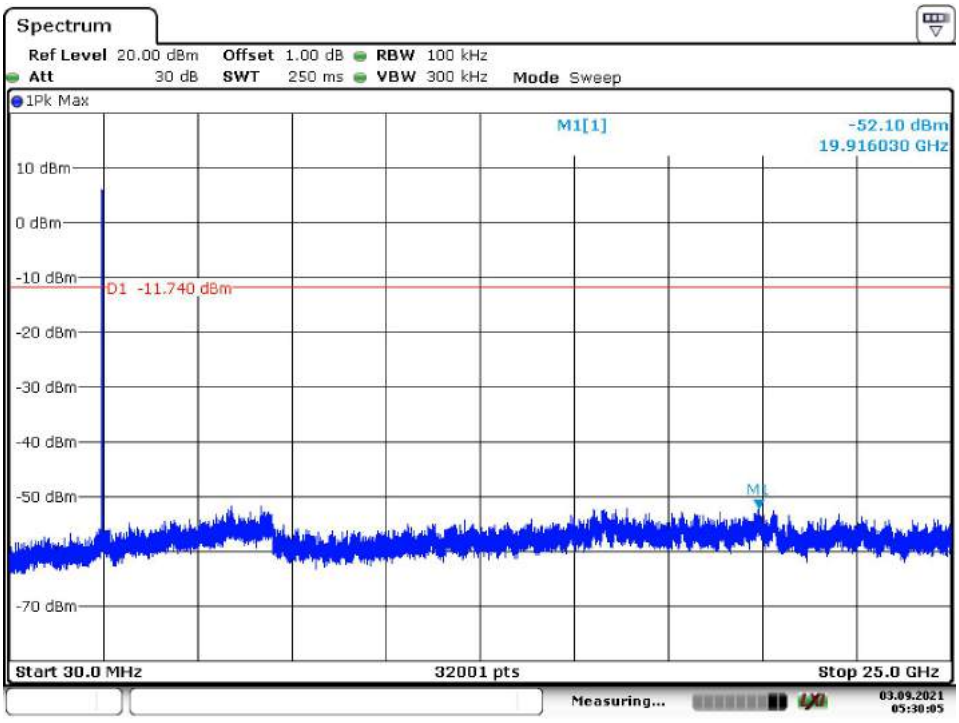
Date: 3.SEP.2021 05:22:27



Date: 3.SEP.2021 05:29:17

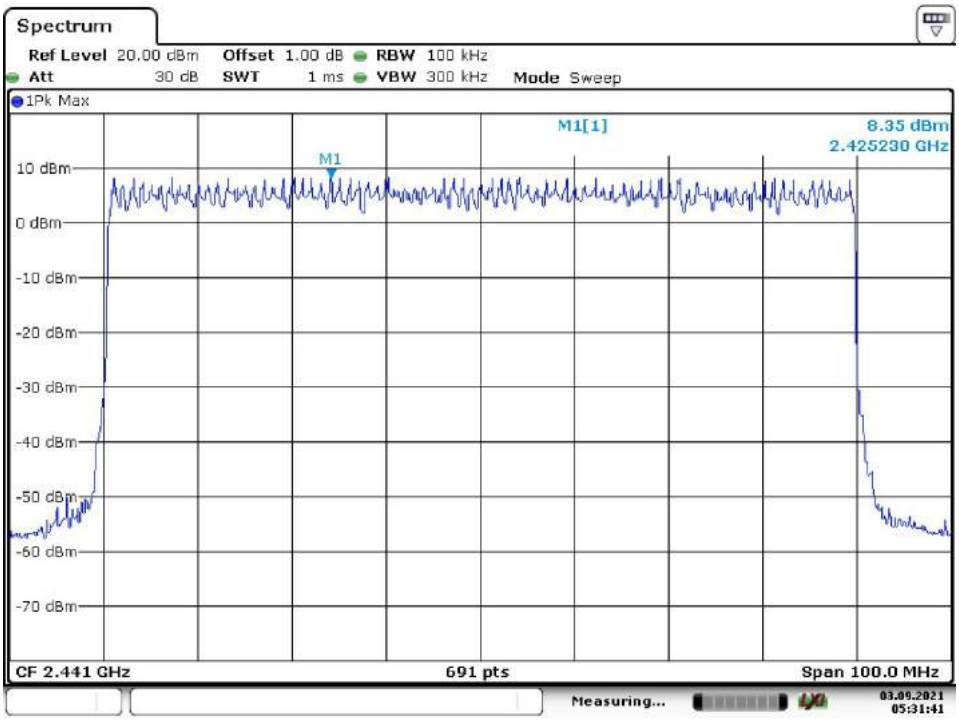
EDR Mode, High Channel

Date: 3.SEP.2021 05:19:08

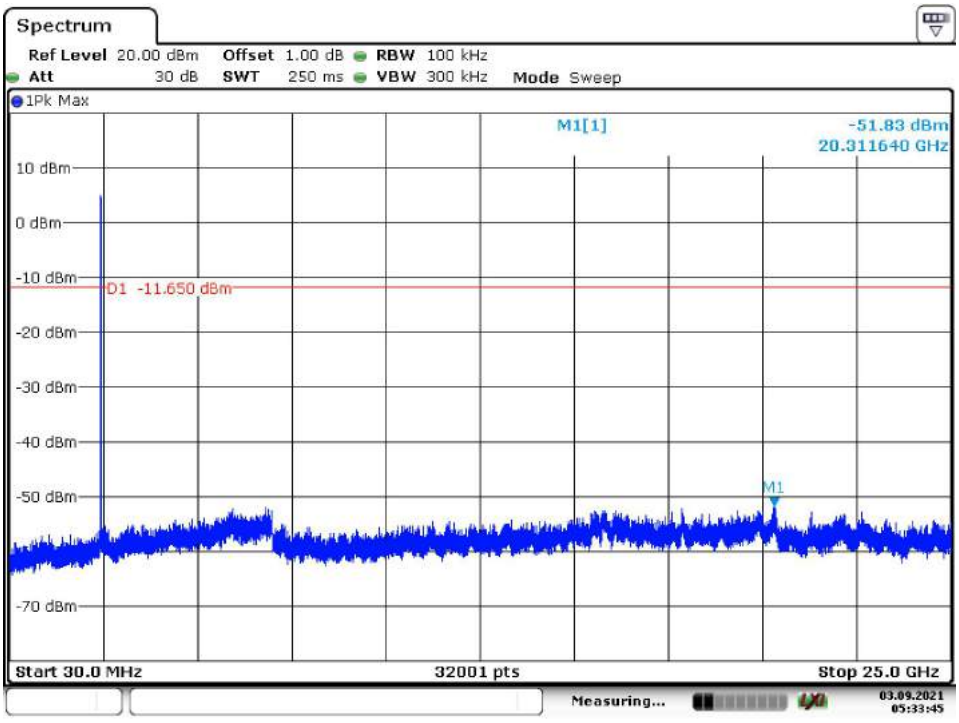


Date: 3.SEP.2021 05:30:05

EDR, Hopping

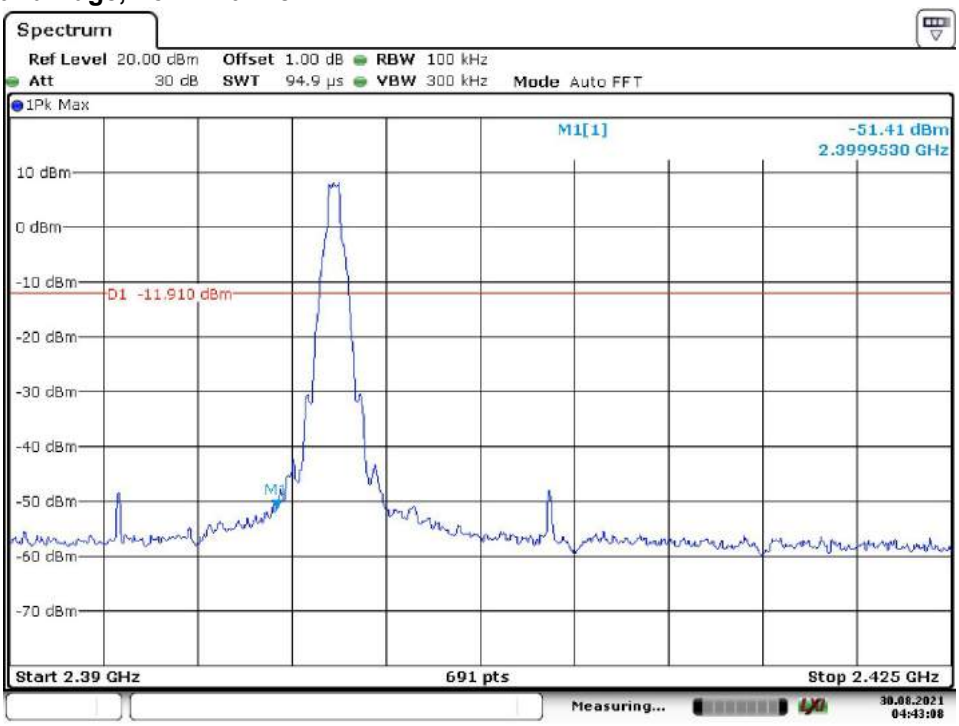


Date: 3.SEP.2021 05:31:42



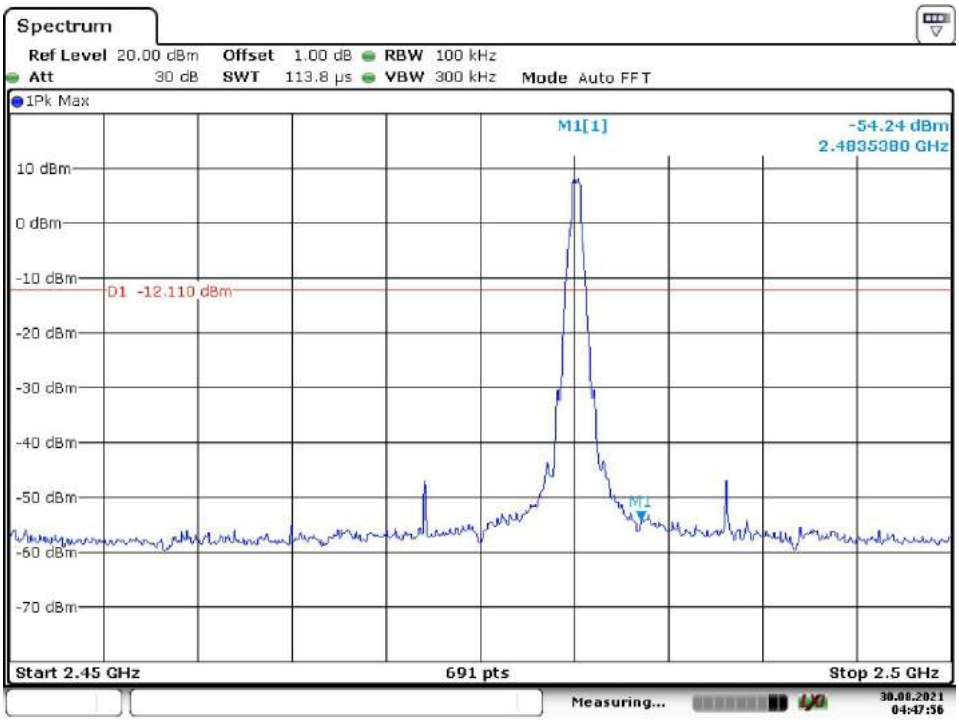
Date: 3.SEP.2021 05:33:46

BDR Mode, Band Edge, Low Channel



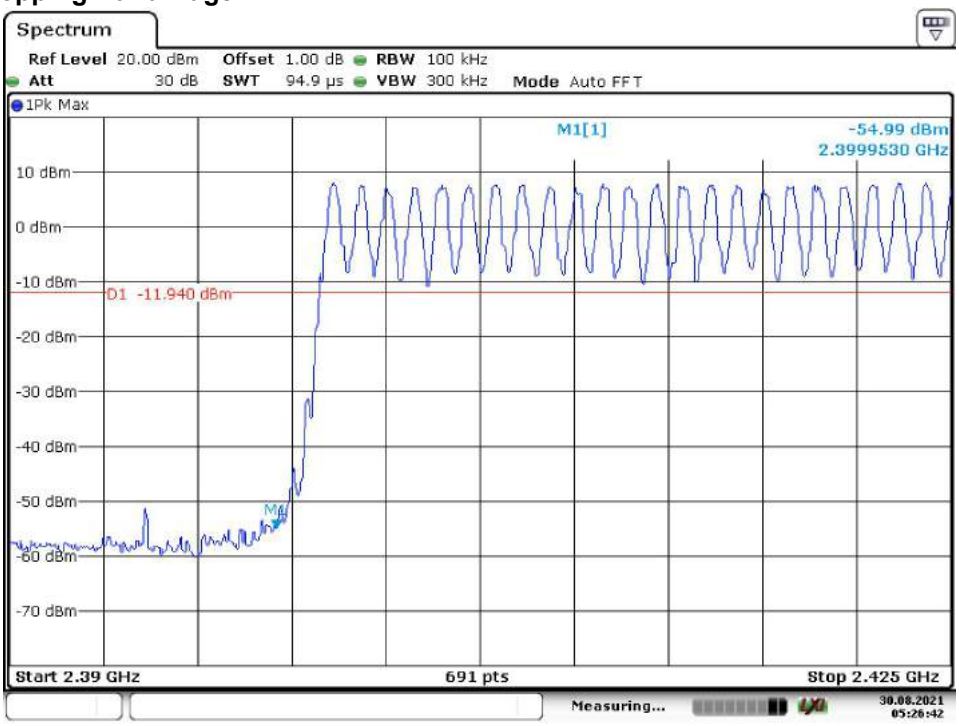
Date: 30.AUG.2021 04:43:08

BDR Mode, Band Edge, High Channel

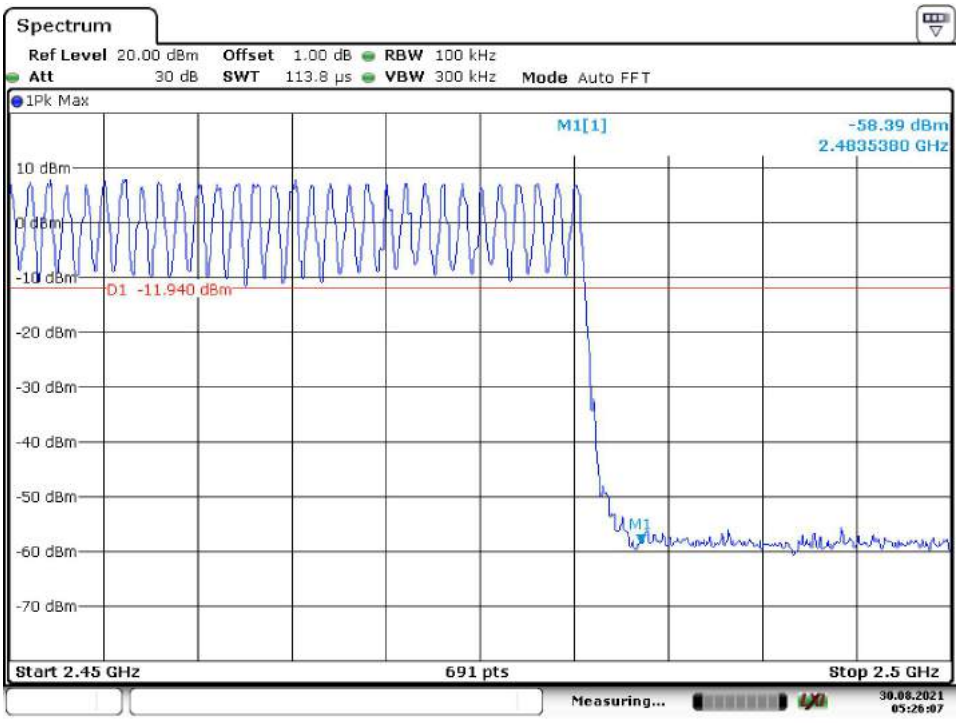


Date: 30.AUG.2021 04:47:56

BDR Mode, Hopping Band Edge

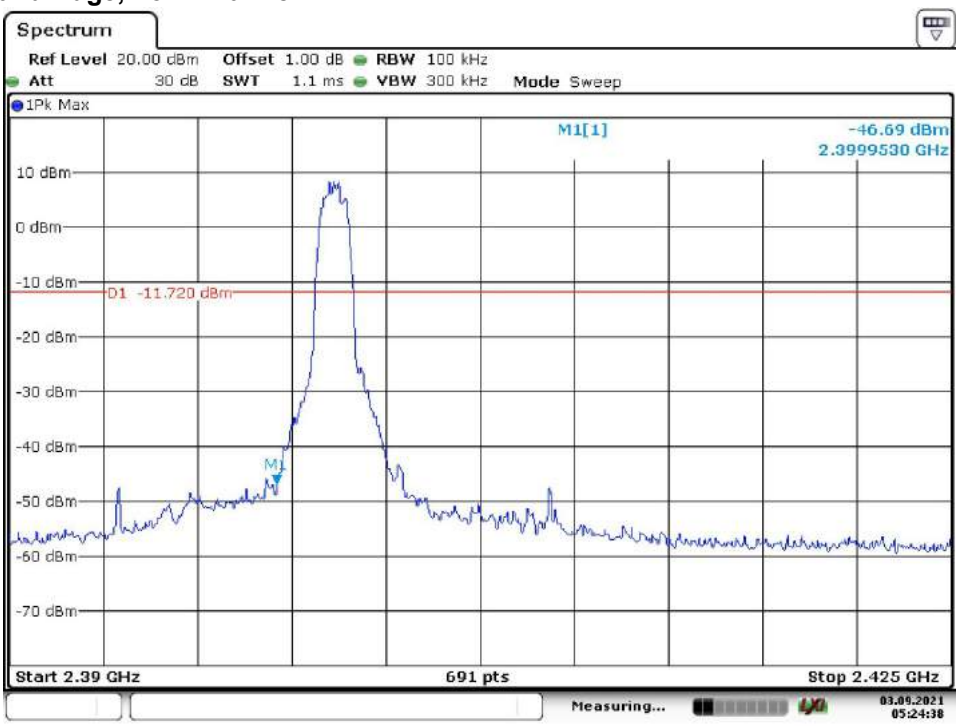


Date: 30.AUG.2021 05:26:43



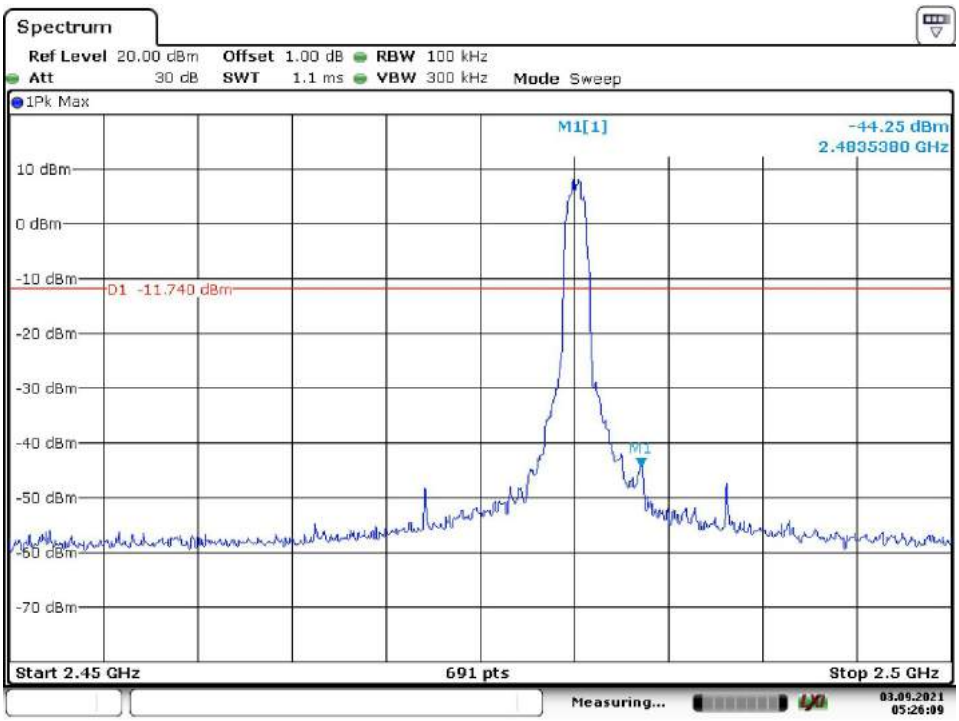
Date: 30.AUG.2021 05:26:07

EDR Mode, Band Edge, Low Channel



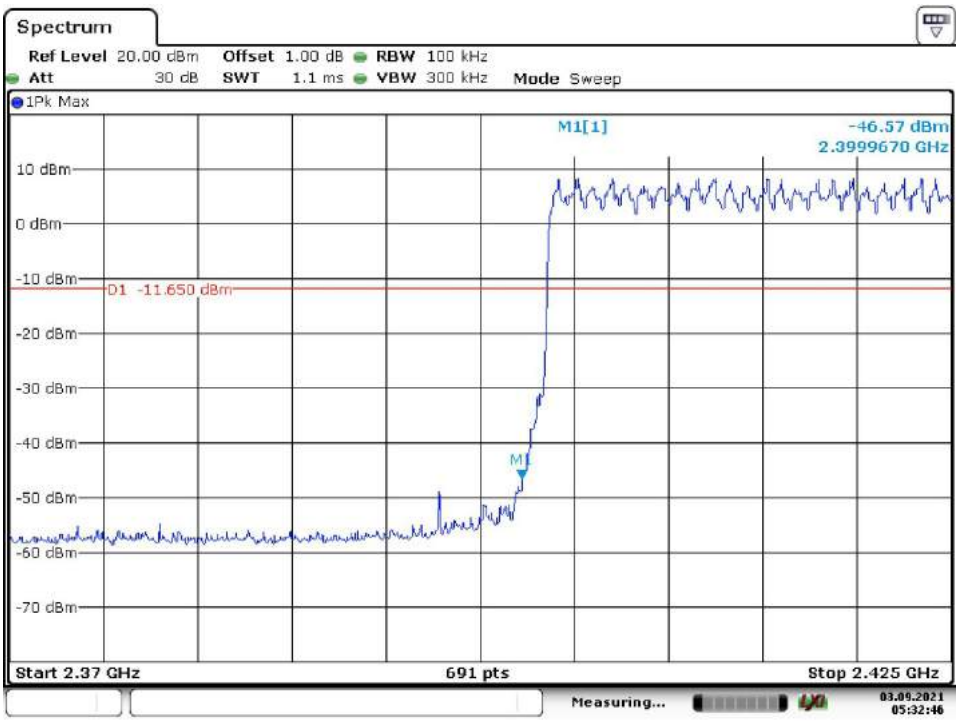
Date: 3.SEP.2021 05:24:39

EDR Mode, Band Edge, High Channel

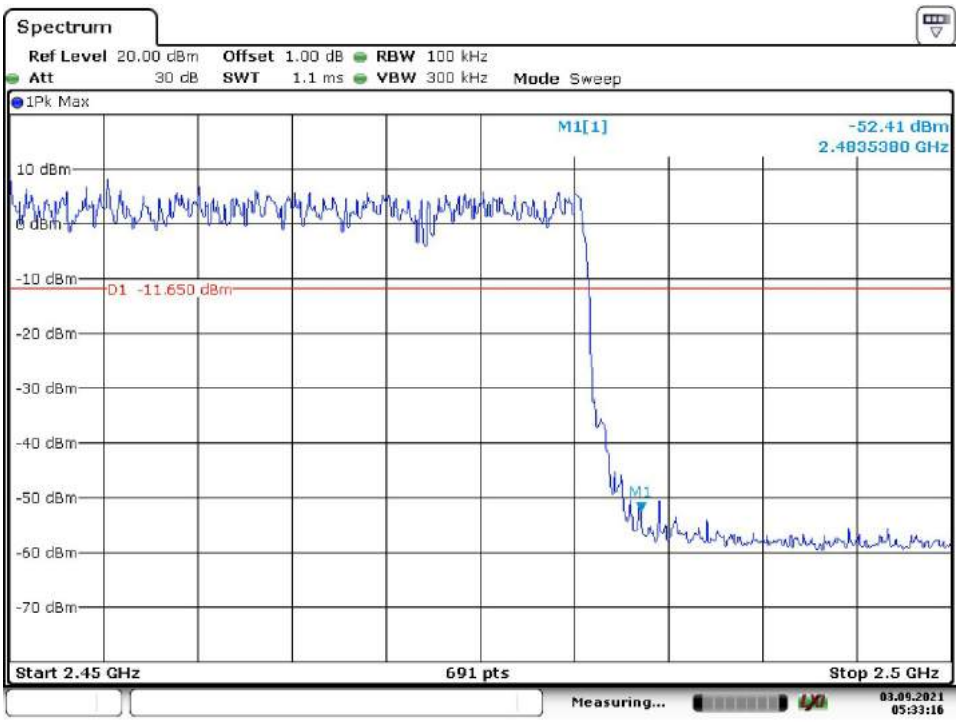


Date: 3.SEP.2021 05:26:09

EDR Mode, Hopping Band Edge



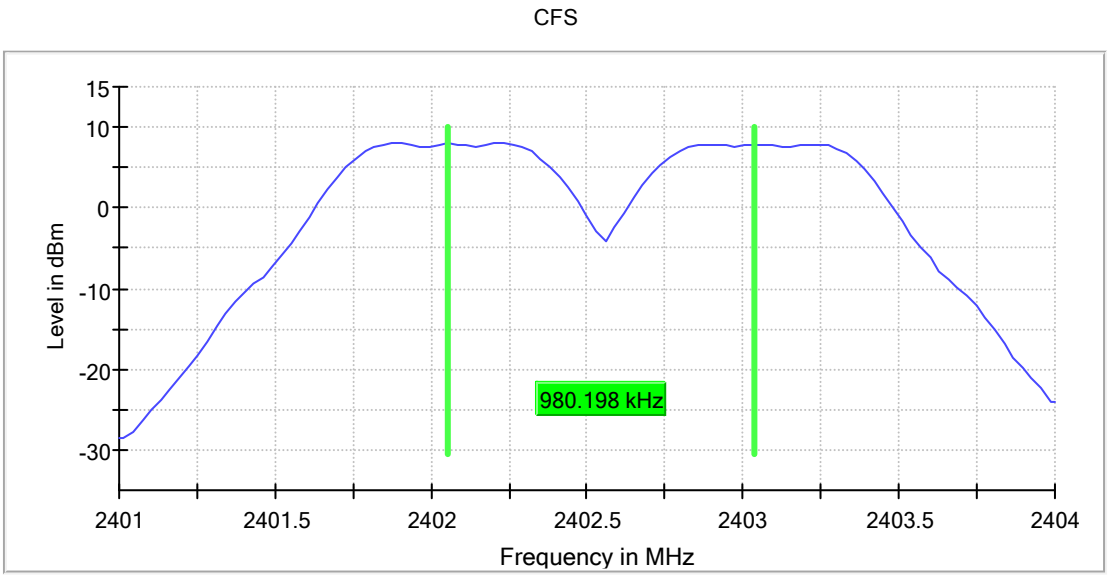
Date: 3.SEP.2021 05:32:47



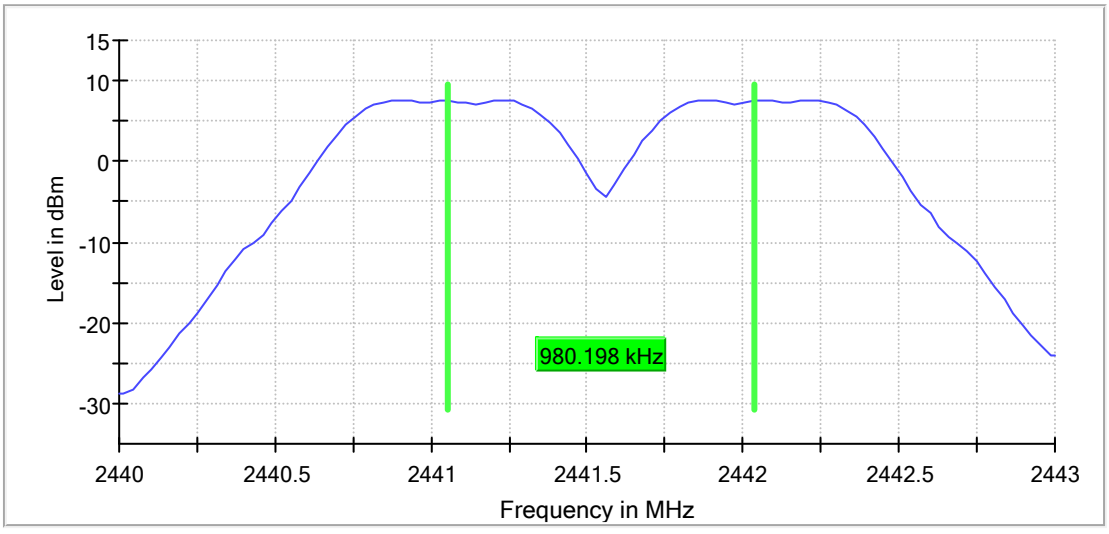
Date: 3.SEP.2021 05:33:17

Appendix B.4: Test Plots of Carrier Frequency Separation

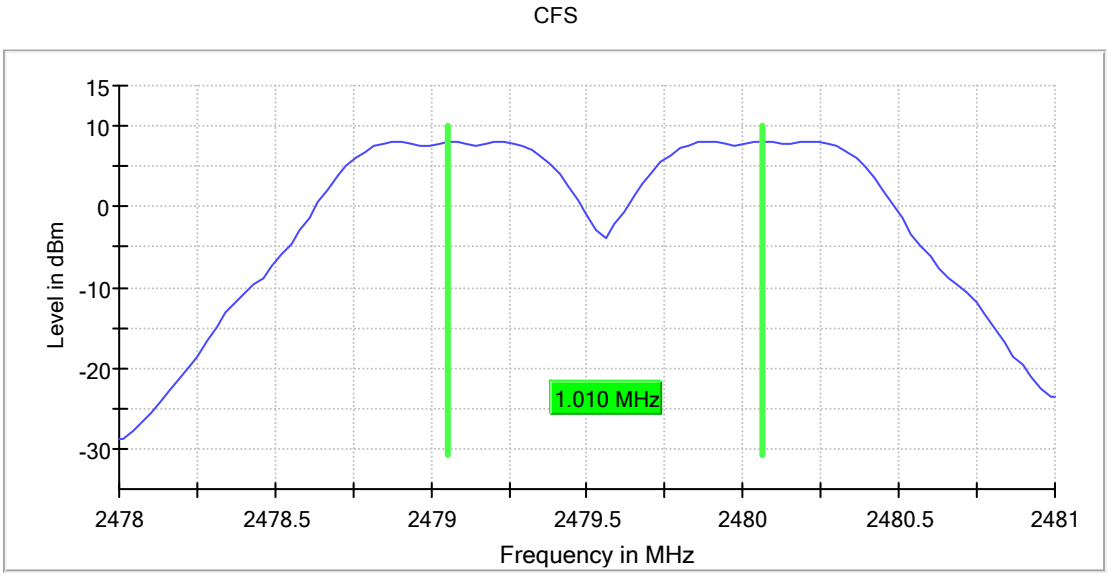
BDR, Low Channel
RBW=300kHz, VBW=300kHz



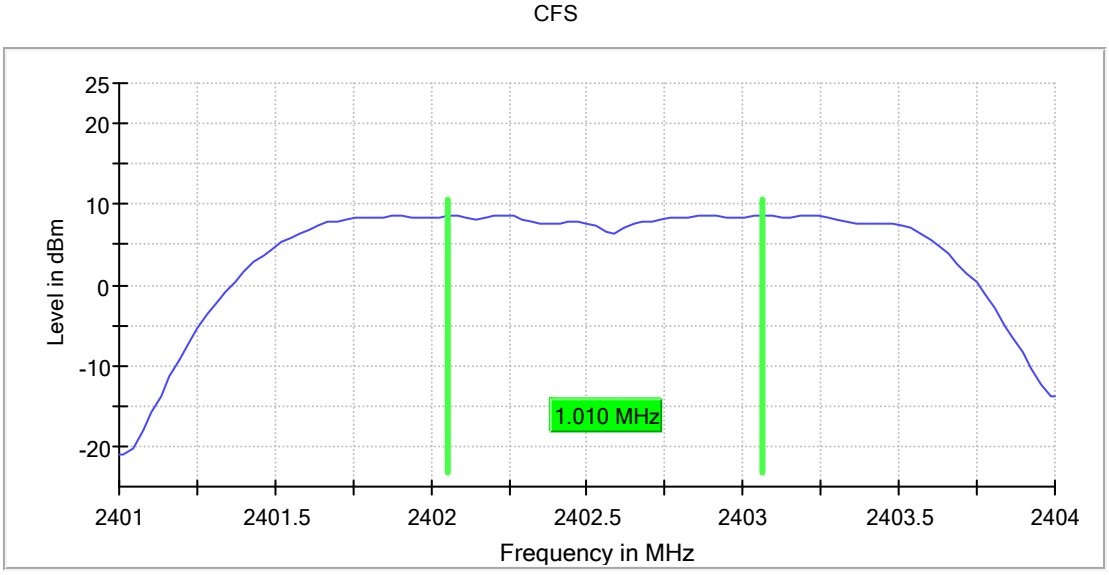
BDR, Middle Channel
RBW=300kHz, VBW=300kHz



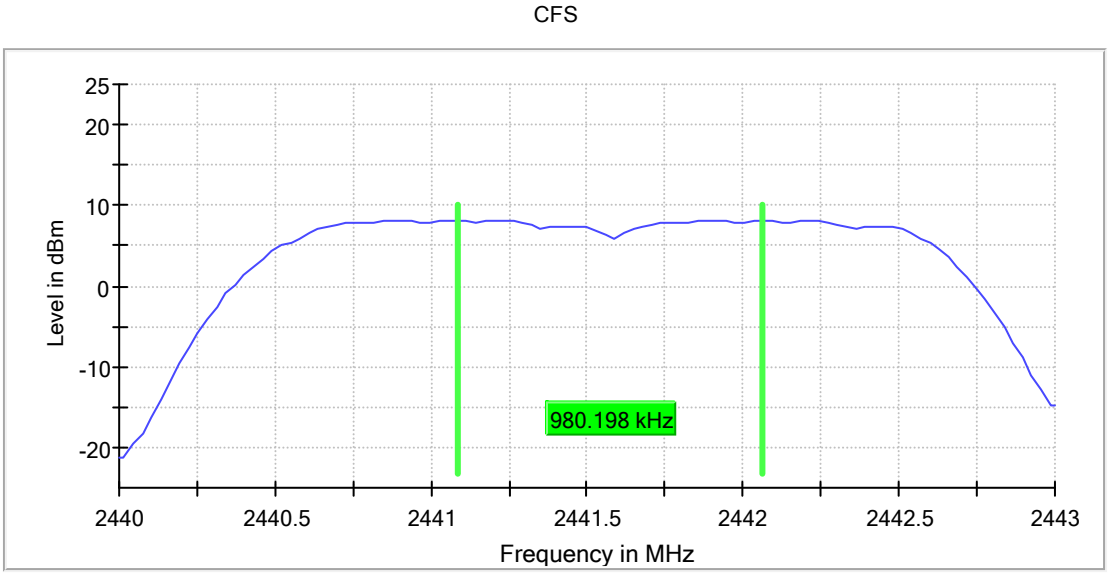
BDR, High Channel
RBW=300kHz, VBW=300kHz



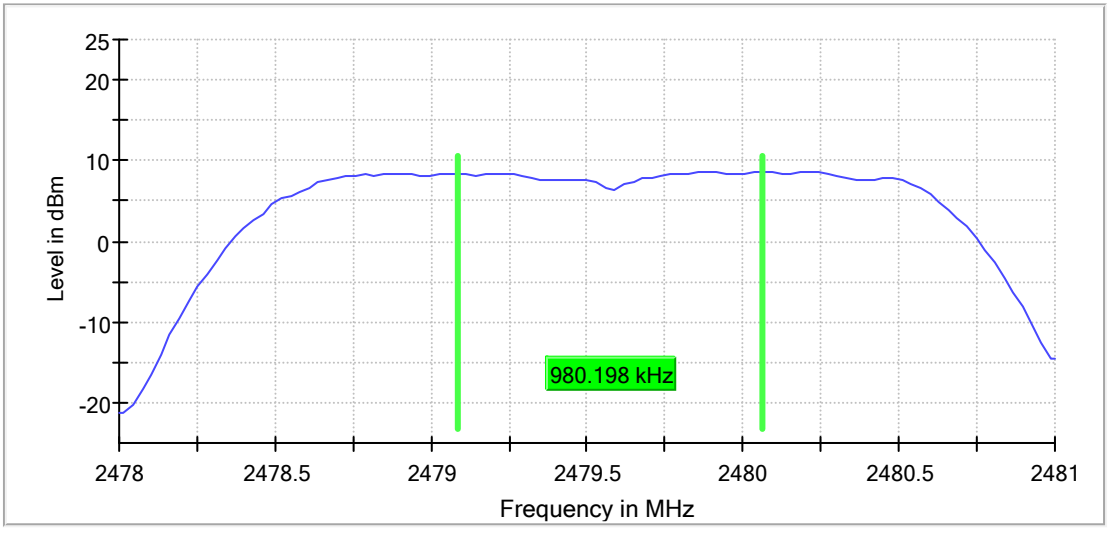
EDR, Low Channel
RBW=300kHz, VBW=300kHz



EDR, Middle Channel
RBW=300kHz, VBW=300kHz

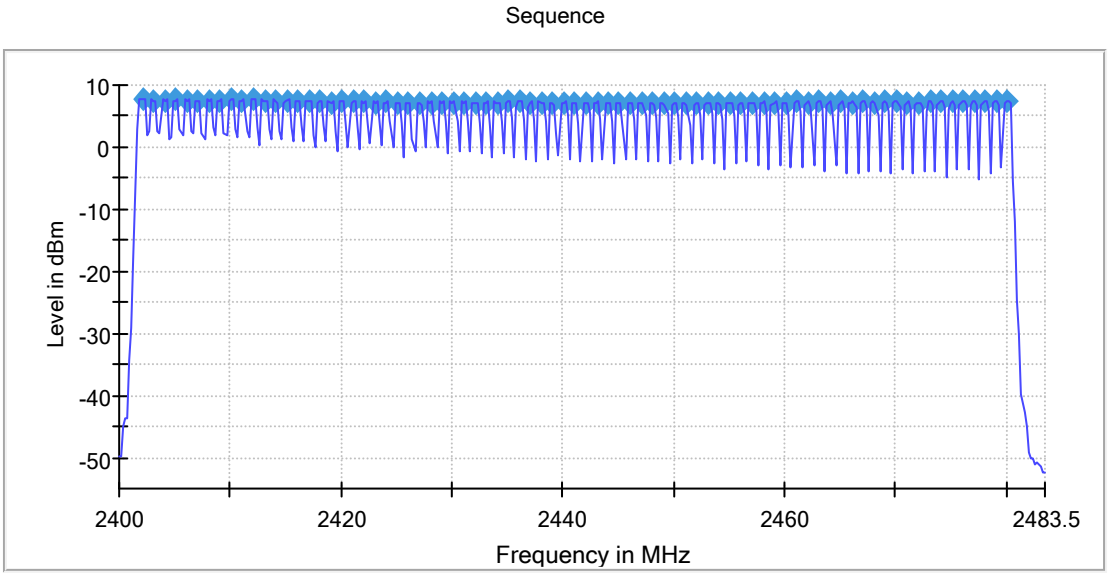


EDR, High Channel
RBW=300kHz, VBW=300kHz

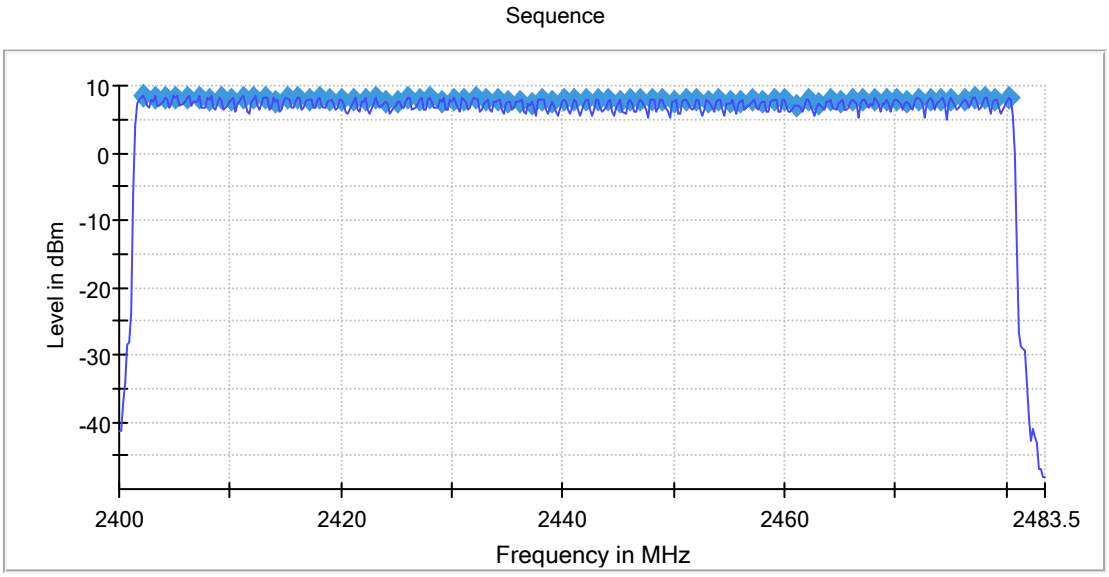


Appendix B.5: Test Plots of Number of Hopping Frequency

BDR, Hopping

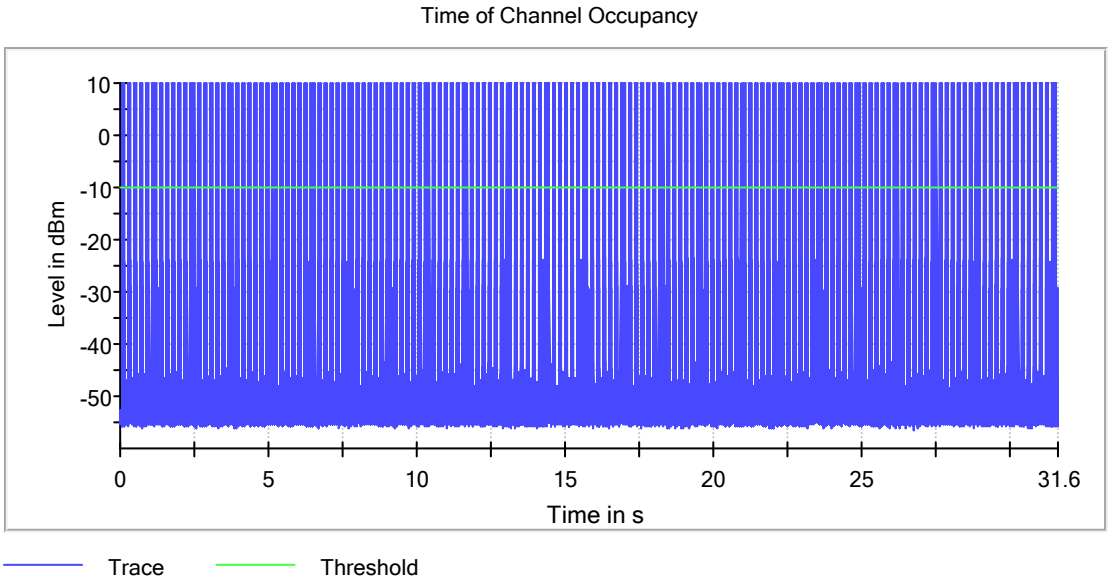


EDR, Hopping

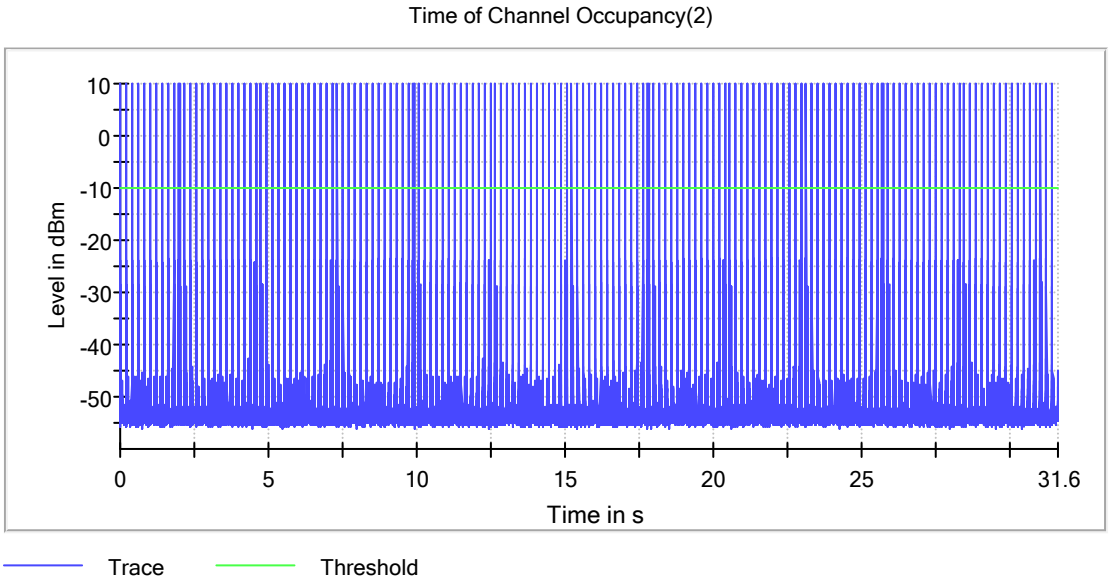


Appendix B.6: Test Plots of Time of Occupancy

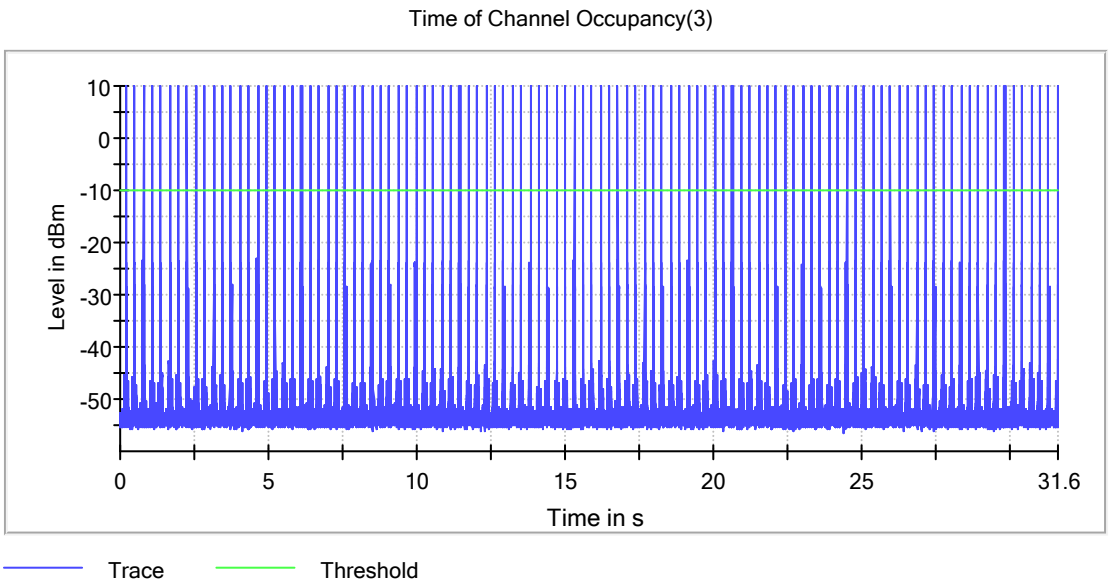
BDR Mode, DH1, Middle Channel



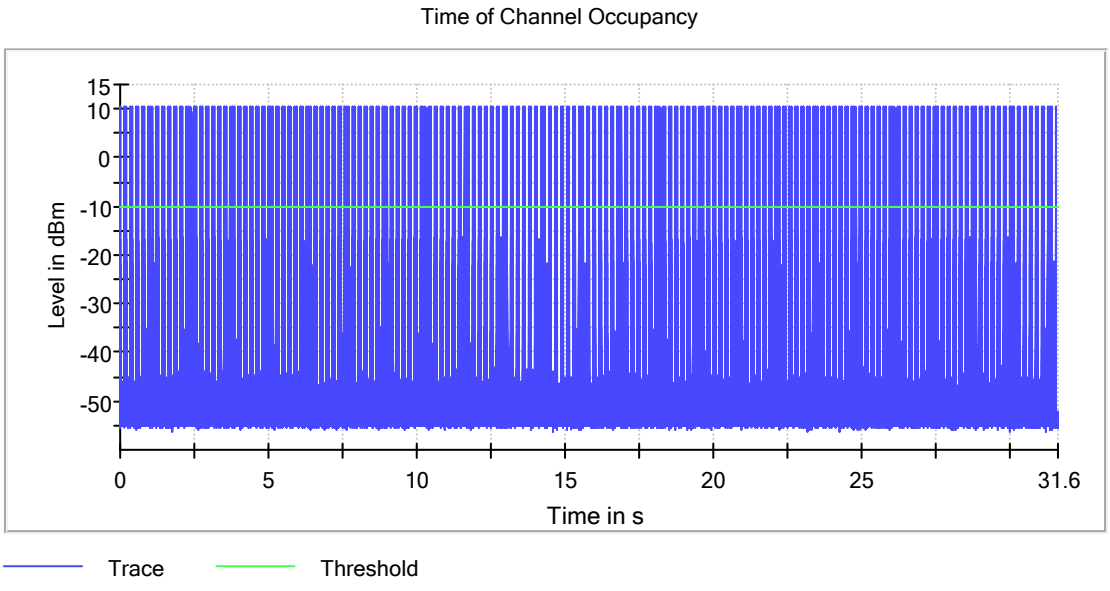
BDR Mode, DH3, Middle Channel



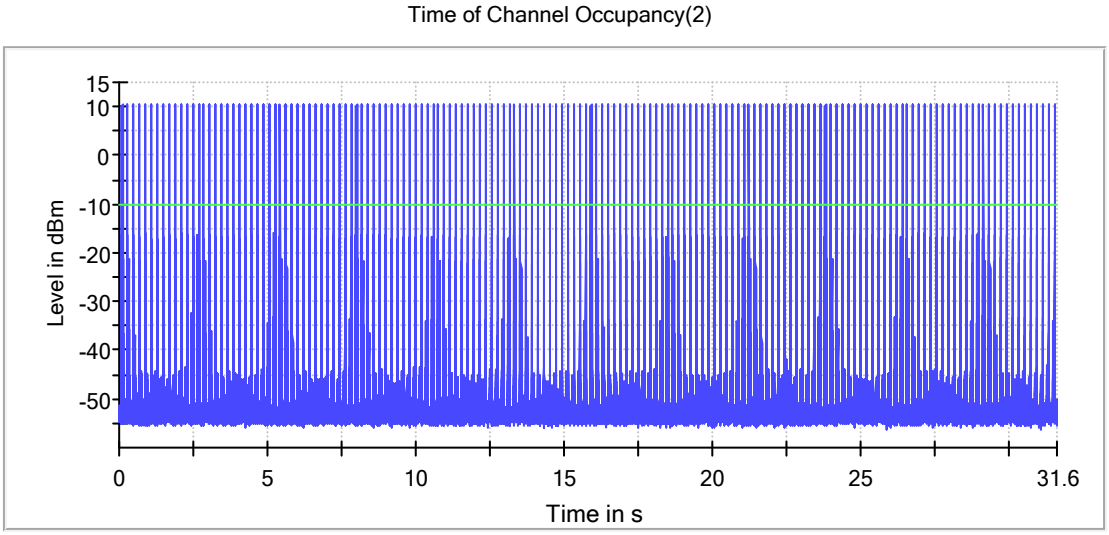
BDR Mode, DH5, Middle Channel



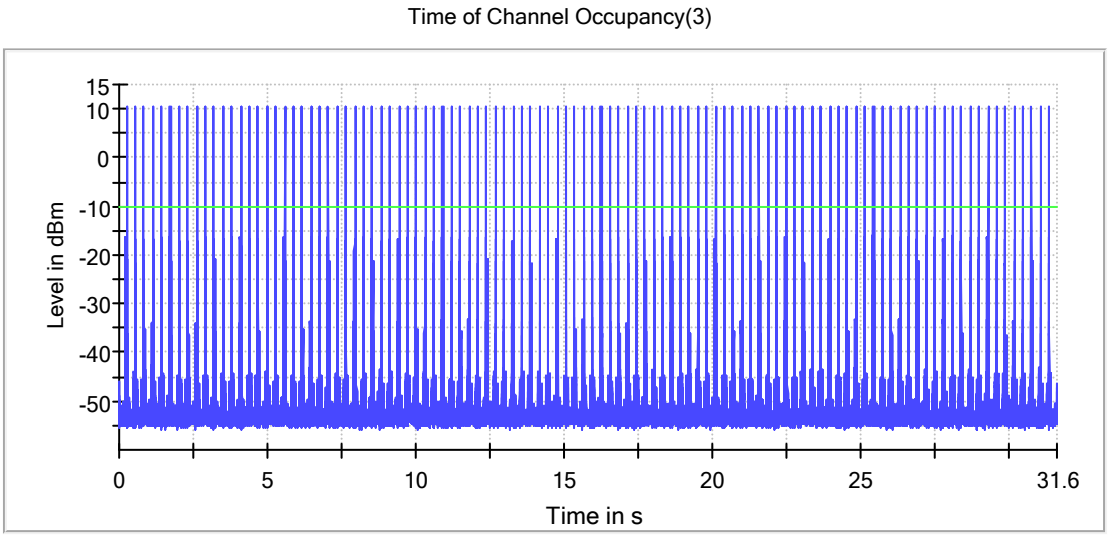
EDR Mode, 3DH1, Middle Channel



EDR Mode, 3DH3, Middle Channel



EDR Mode, 3DH5, Middle Channel



Appendix C

Test Results of Radiated Emission & AC Mains Conducted Emission

APPENDIX C 1
APPENDIX C.1: TEST PLOTS OF RADIATED SPURIOUS EMISSION 2
BDR mode, 30MHz - 1GHz 2
BDR mode, 1GHz - 6.2GHz 3
BDR mode, 6.2GHz - 18GHz 4
APPENDIX C.2: TEST PLOTS OF BAND EDGE (RADIATED) 5
BDR mode, Low Channel 5
BDR mode, High Channel 6
APPENDIX C.3: TEST PLOTS OF AC MAINS CONDUCTED EMISSION 7

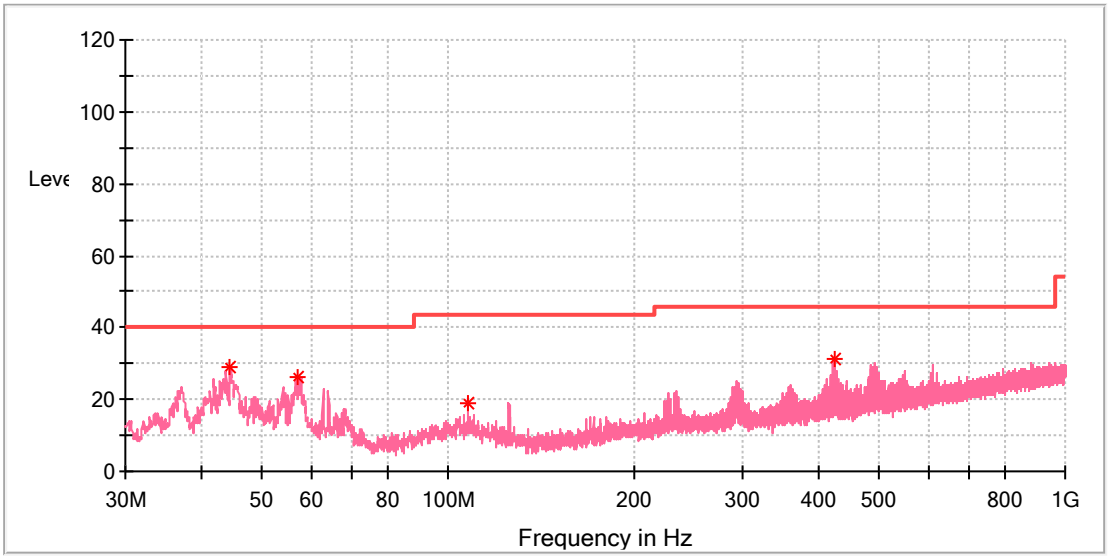
Note: The radiated spurious emission were measured from 9kHz to 25GHz, the measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix C.1: Test Plots of Radiated Spurious Emission

BDR mode, 30MHz - 1GHz

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

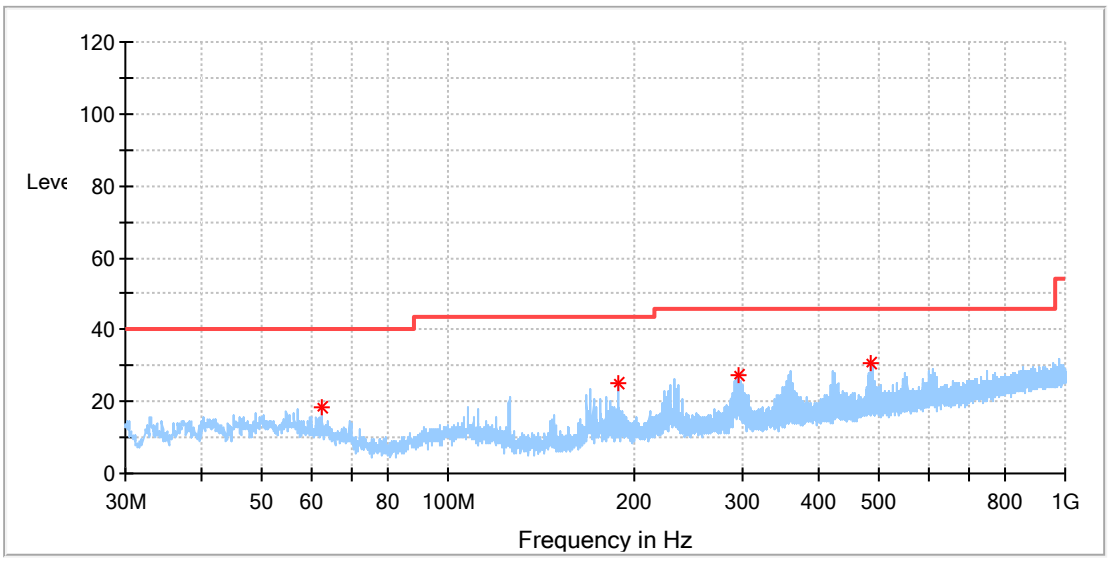


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.404500	29.10	40.00	10.90	100.0	V	40.0	-18.9
57.257000	26.31	40.00	13.69	100.0	V	285.0	-18.7
107.988000	18.96	43.50	24.54	100.0	V	22.0	-18.9
422.025500	31.16	46.00	14.84	100.0	V	6.0	-13.4

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

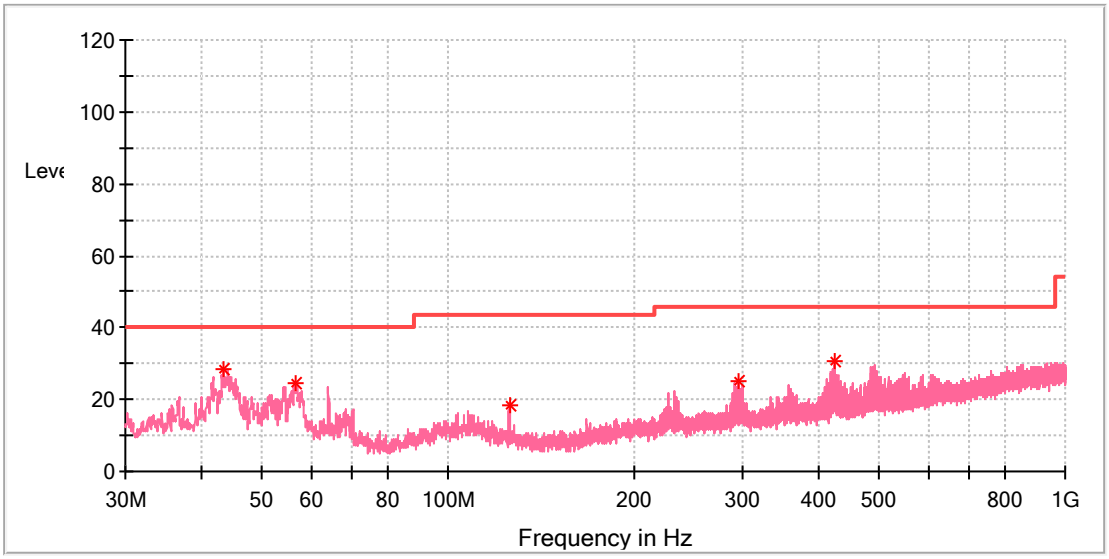


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.543500	18.26	40.00	21.74	100.0	H	29.0	-19.5
188.352500	25.00	43.50	18.50	100.0	H	349.0	-19.7
295.974000	27.46	46.00	18.54	100.0	H	214.0	-16.4
484.008500	30.48	46.00	15.52	100.0	H	119.0	-12.1

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

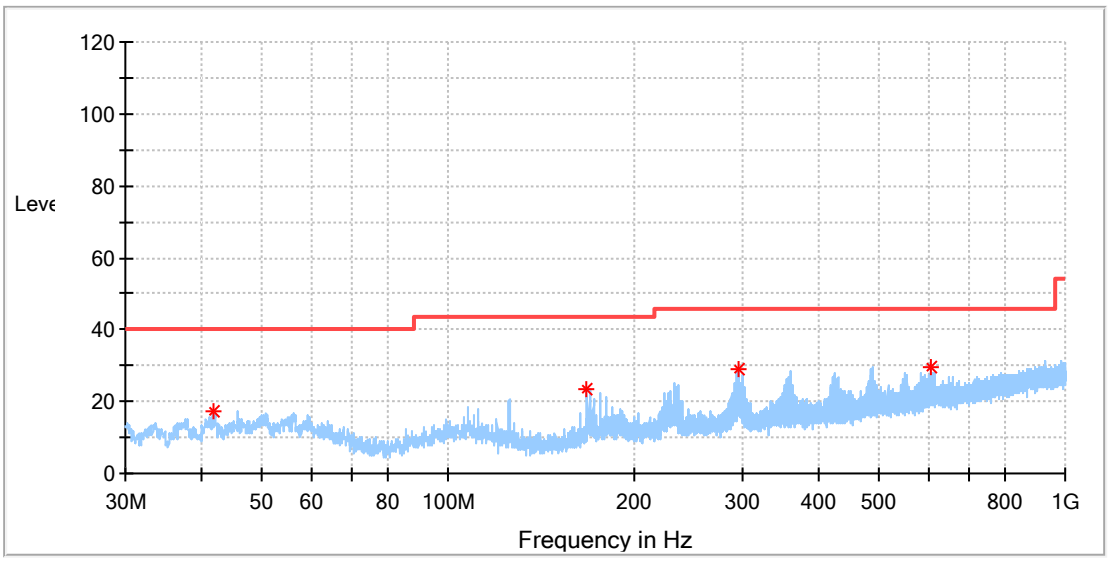


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.240500	28.50	40.00	11.50	100.0	V	113.0	-19.2
56.529500	24.78	40.00	15.22	100.0	V	0.0	-18.6
125.690500	18.55	43.50	24.95	100.0	V	61.0	-21.4
295.974000	24.94	46.00	21.06	100.0	V	98.0	-16.4
424.014000	30.53	46.00	15.47	100.0	V	12.0	-13.4

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



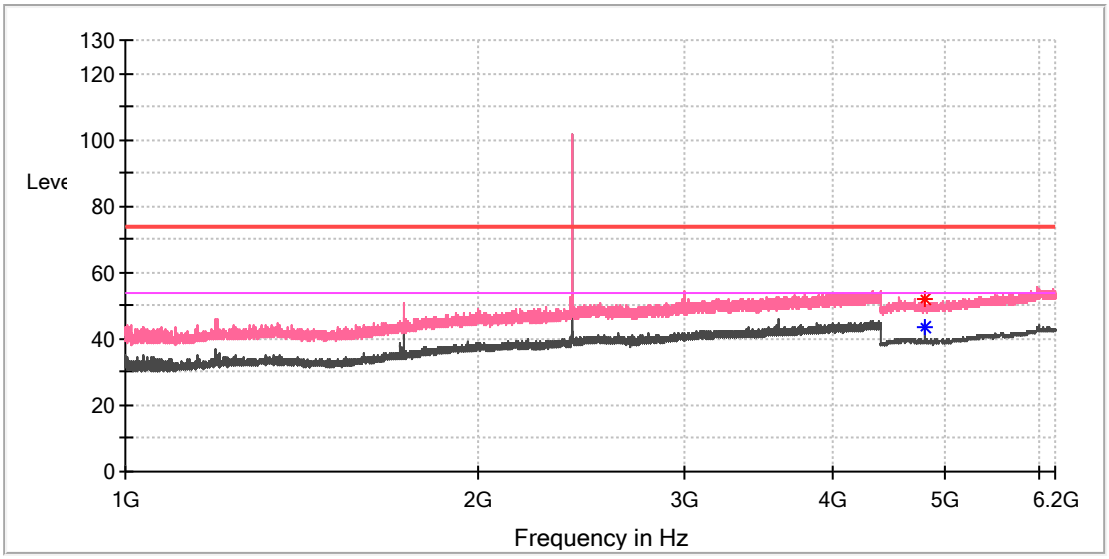
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.591500	17.24	40.00	22.76	100.0	H	6.0	-19.7
167.982500	23.56	43.50	19.94	100.0	H	43.0	-21.3
296.022500	28.79	46.00	17.21	100.0	H	202.0	-16.4
604.046000	29.47	46.00	16.53	100.0	H	340.0	-9.8

BDR mode, 1GHz - 6.2GHz

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

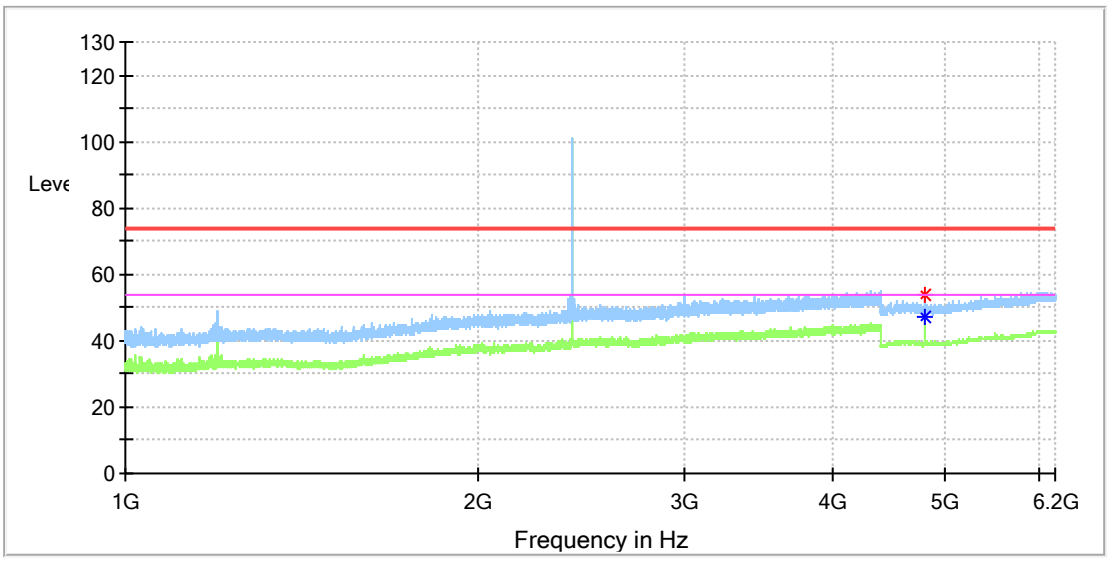


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	51.71	---	74.00	22.30	100.0	V	123.0	11.8
4803.500000	---	43.40	54.00	10.60	100.0	V	123.0	11.8

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

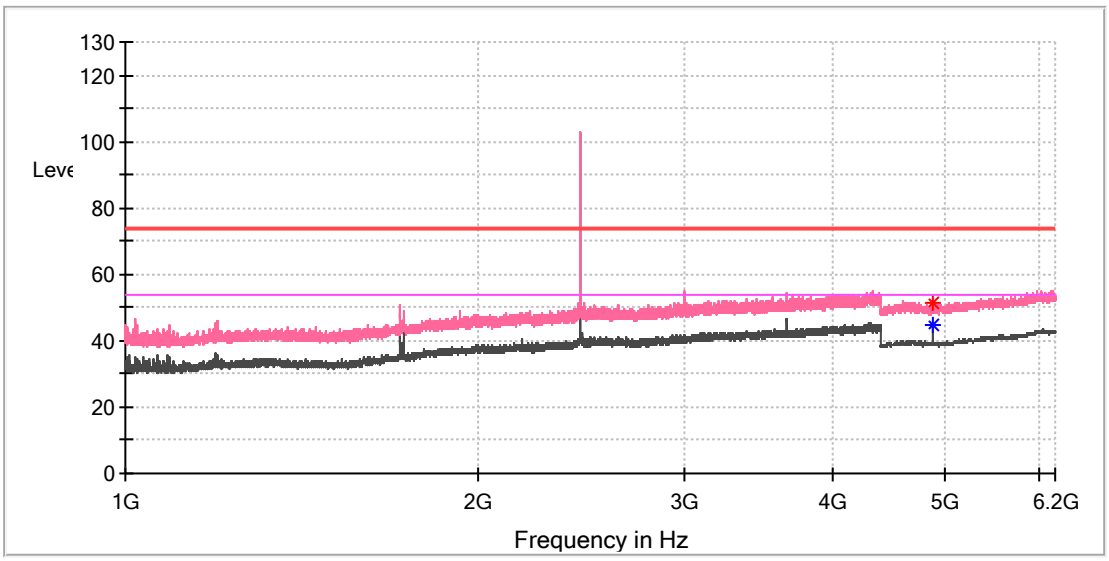


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	53.64	---	74.00	20.36	100.0	H	145.0	11.8
4804.000000	---	46.98	54.00	7.02	100.0	H	145.0	11.8

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

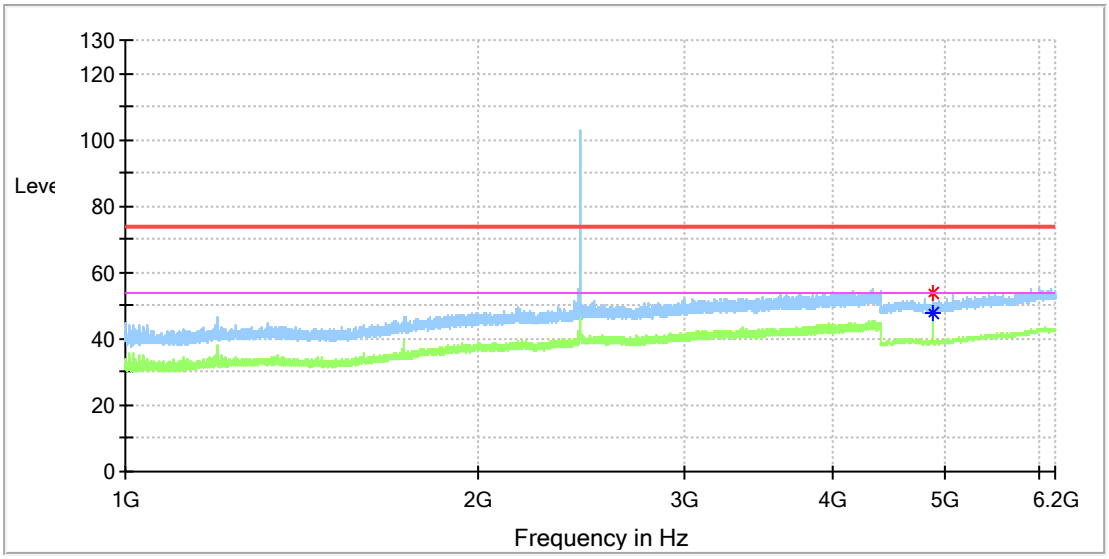


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	51.69	---	74.00	22.31	100.0	V	77.0	11.8
4882.000000	---	44.58	54.00	9.42	100.0	V	77.0	11.8

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

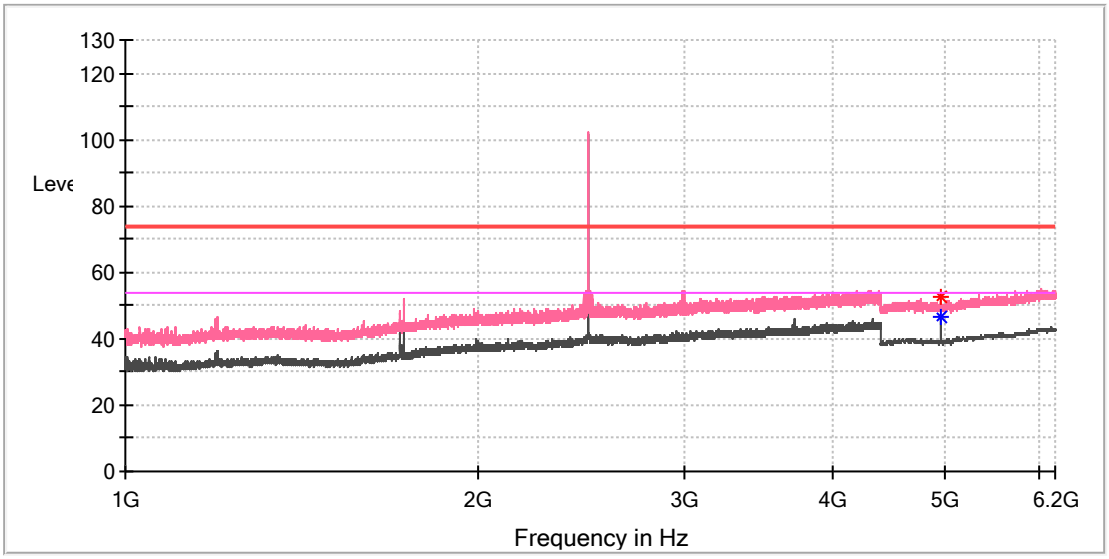


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	53.88	---	74.00	20.12	100.0	H	71.0	11.8
4882.000000	---	47.88	54.00	6.12	100.0	H	71.0	11.8

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

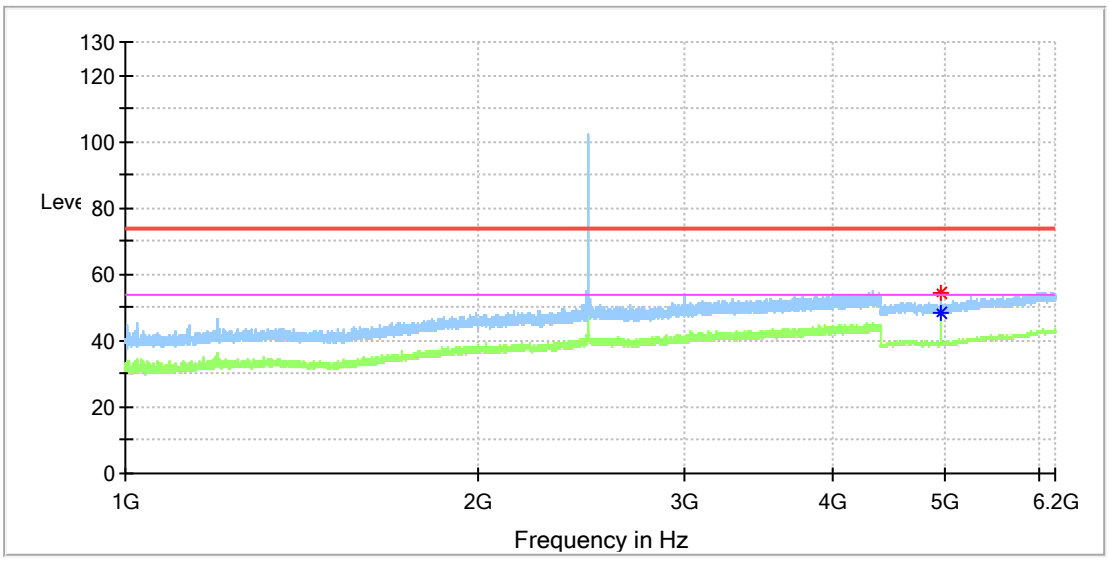


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	52.86	---	74.00	21.14	100.0	V	49.0	11.8
4960.000000	---	46.86	54.00	7.14	100.0	V	49.0	11.8

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



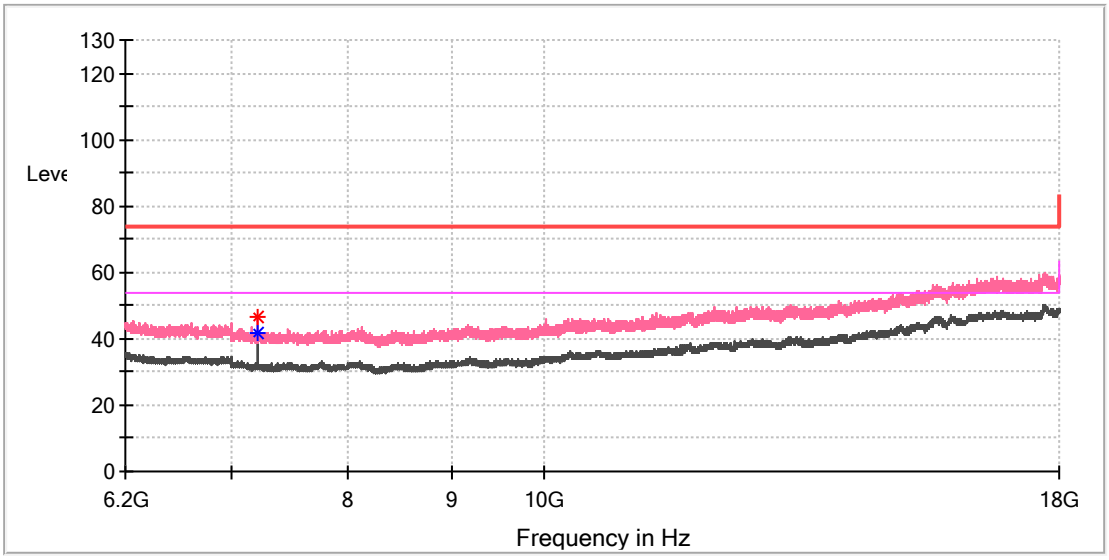
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	48.63	54.00	5.37	100.0	H	84.0	11.8
4960.500000	54.60	---	74.00	19.40	100.0	H	63.0	11.8

BDR mode, 6.2GHz - 18GHz

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

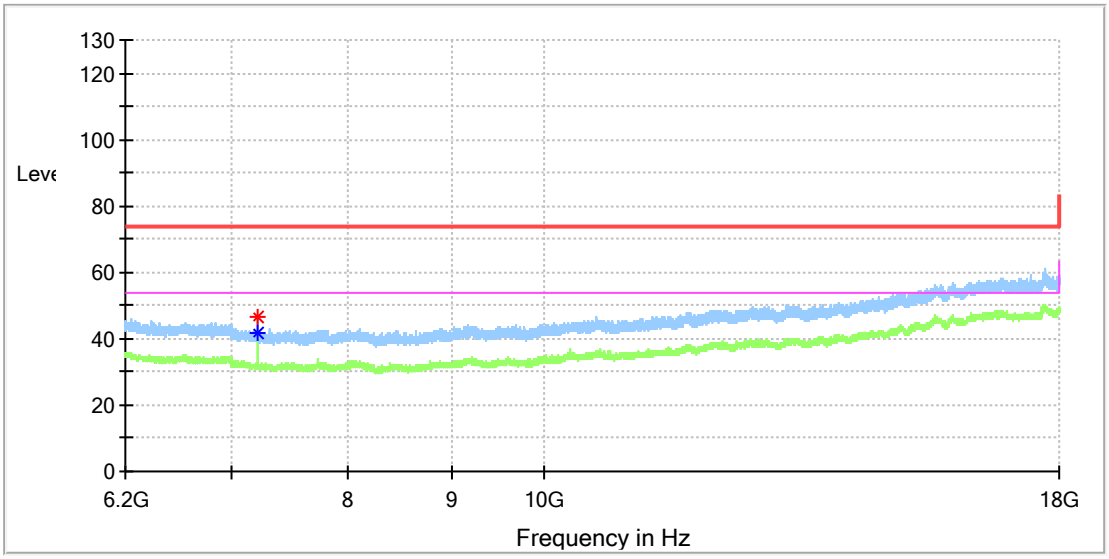


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	42.00	54.00	12.00	100.0	V	107.0	8.8
7206.933333	46.41	---	74.00	27.59	100.0	V	107.0	8.8

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

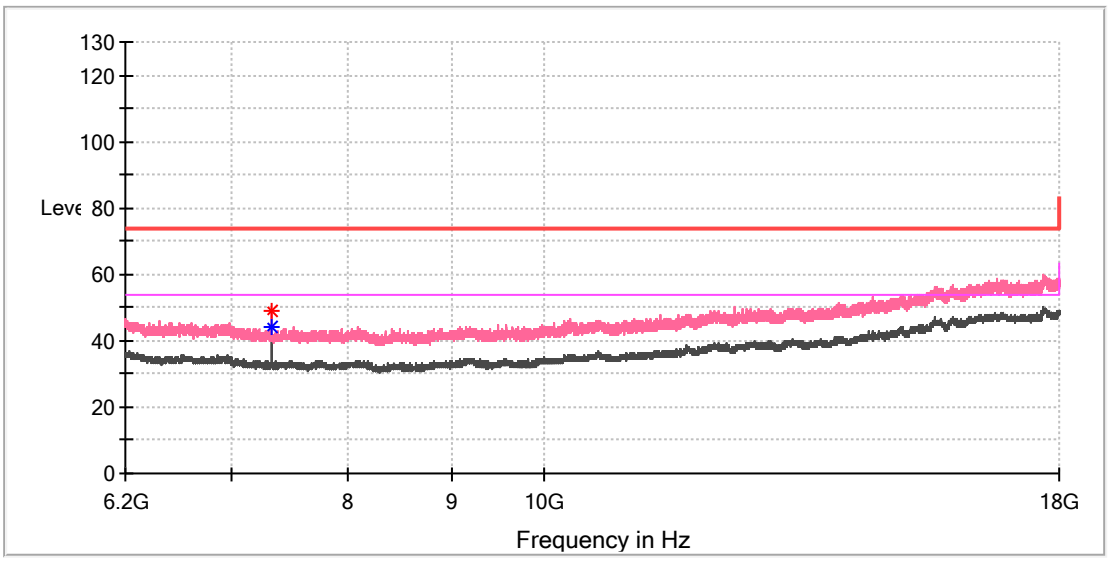


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	46.72	---	74.00	27.28	100.0	H	42.0	8.8
7205.950000	---	41.48	54.00	12.52	100.0	H	42.0	8.8

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

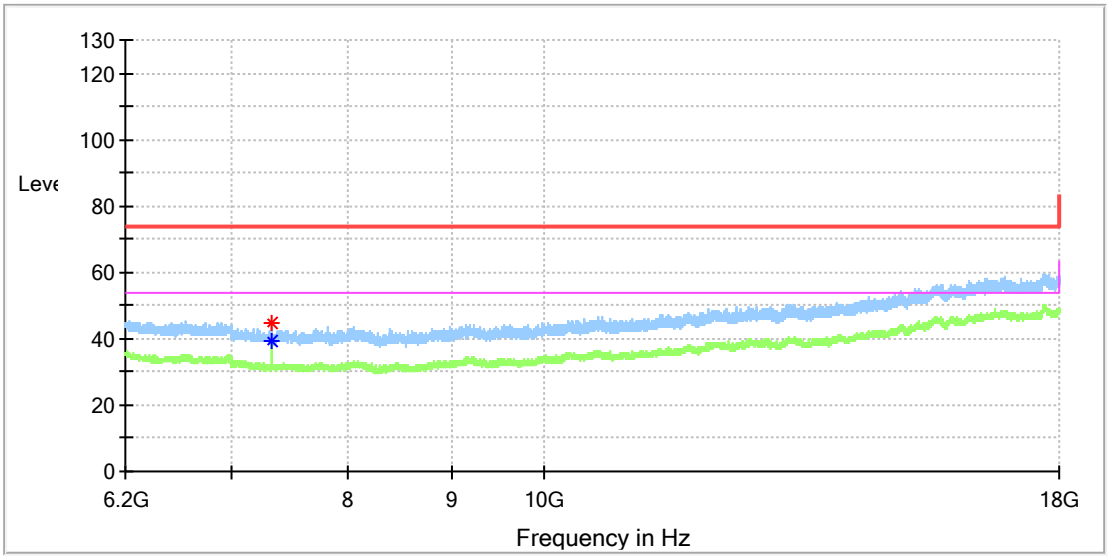


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.966667	---	43.98	54.00	10.02	100.0	V	195.0	8.2
7322.966667	48.94	---	74.00	25.06	100.0	V	195.0	8.2

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

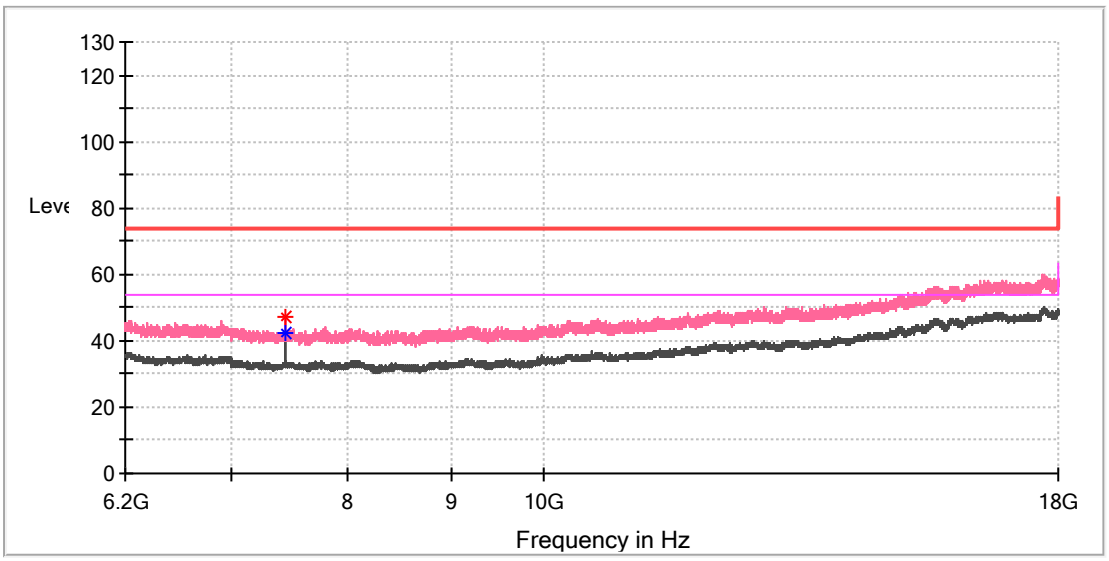


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	44.67	---	74.00	29.33	100.0	H	37.0	8.2
7322.966667	---	39.36	54.00	14.64	100.0	H	109.0	8.2

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

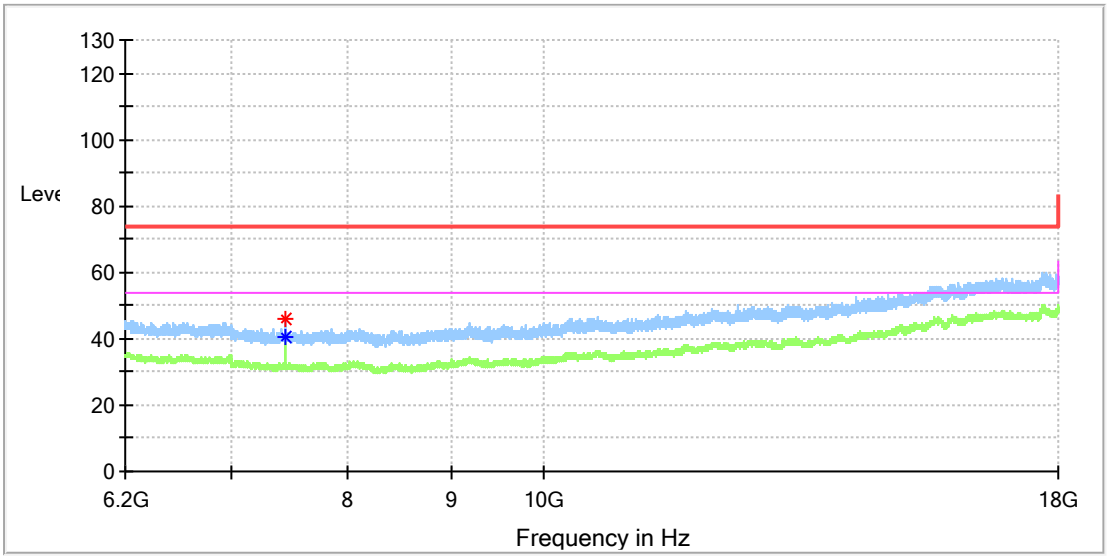


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	42.44	54.00	11.56	100.0	V	205.0	8.4
7440.475000	47.12	---	74.00	26.88	100.0	V	205.0	8.4

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

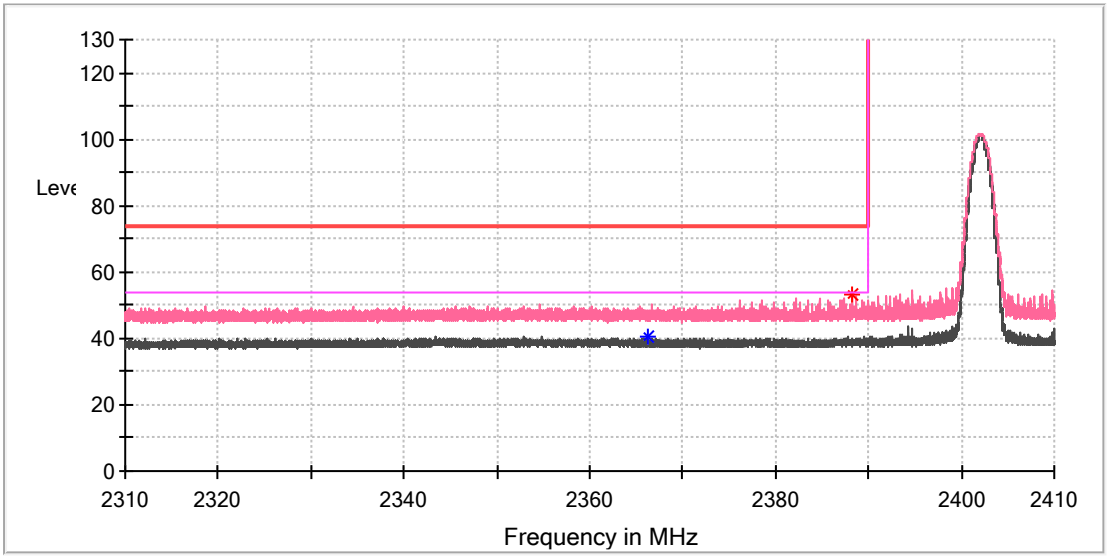
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	40.21	54.00	13.79	100.0	H	81.0	8.4
7440.475000	45.65	---	74.00	28.35	100.0	H	95.0	8.4

Appendix C.2: Test Plots of Band Edge (Radiated)

BDR mode, Low Channel

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

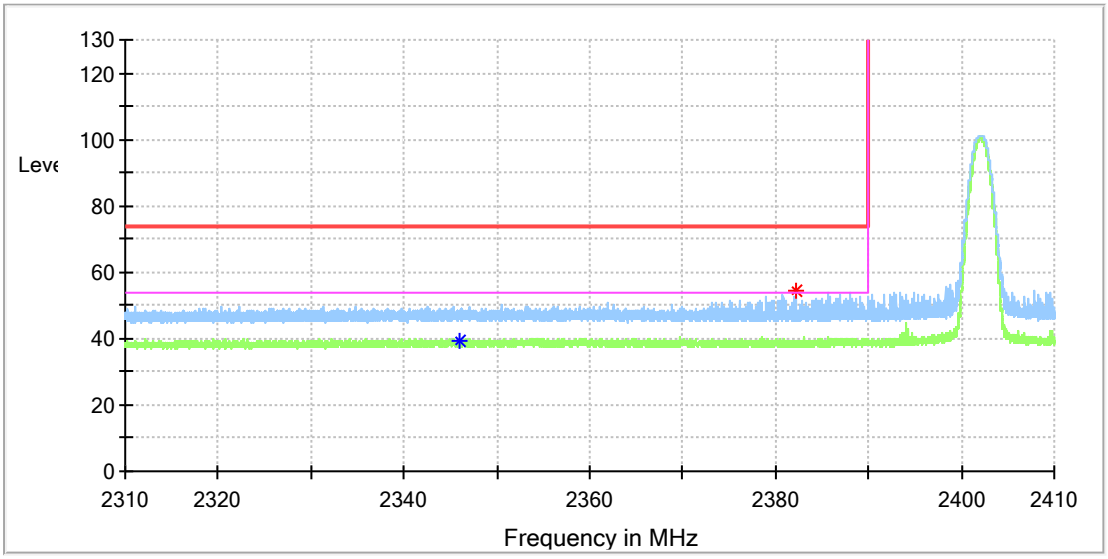


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2366.250000	---	40.23	54.00	13.77	100.0	V	1.0	6.9
2388.170000	53.06	---	74.00	20.94	100.0	V	125.0	7.0

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_Low channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



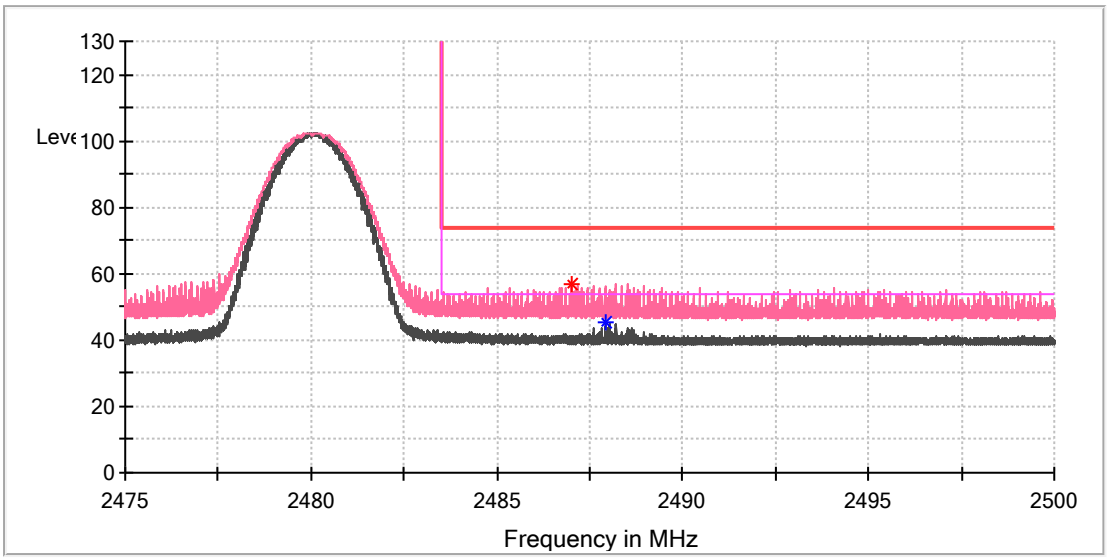
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2345.980000	---	39.43	54.00	14.57	100.0	H	332.0	6.9
2382.210000	54.53	---	74.00	19.47	100.0	H	278.0	7.0

BDR mode, High Channel

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

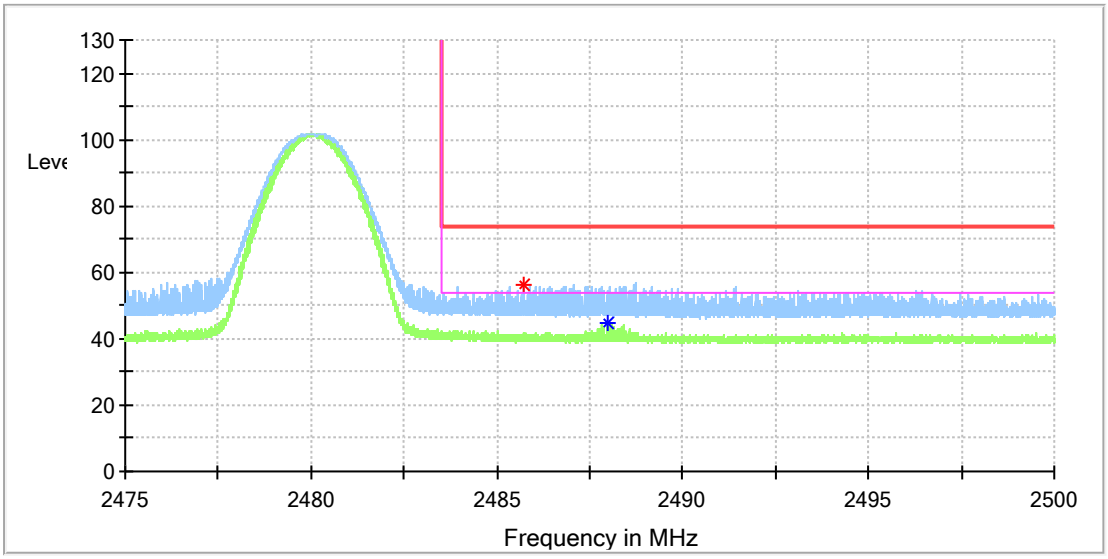


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.028750	56.83	---	74.00	17.17	100.0	V	189.0	7.4
2487.926250	---	45.22	54.00	8.78	100.0	V	139.0	7.4

EUT Information

EUT Name:	Lenovo Go Wireless ANC Headset
Model:	L12WL
Test Mode:	BR_DH5_High channel
Test Voltage::	Battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.747500	56.24	---	74.00	17.76	100.0	H	265.0	7.4
2487.965000	---	44.55	54.00	9.45	100.0	H	255.0	7.4

Appendix C.3: Test Plots of AC Mains Conducted Emission