RF TEST REPORT

FCC ID: 2BMPT-264RL-N1V1BY

Test Report No……..:	RF260626001-08-001
Product(s) Name……...:	2.4/5GHz WiFi Vandal-proof Dome Camera
Model(s)……..:	GL-264RL-N1V1BY, W7A, D500
Trade Mark……....:	N/A
Applicant……..…:	Zhuhai Glory Technology Co., Ltd
Address……..…...:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China
Receipt Date……...:	2026.07.06
Test Date……....:	2026.07.06 ~ 2026.07.31
Issued Date……..…:	2026.08.07
Standards……..…:	47 CFR FCC Part 15, Subpart C(Section 15.247) ANSI C63.10-2020+Cor.1-2023
Testing Laboratory……:	Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Black Ding	Tim Zhang	
Jason Huang	Black Ding	Tim.zhang	

Table of Contents

REPORT ISSUED HISTORY 4

1 . SUMMARY OF TEST RESULTS 5

1.1 TEST FACILITY 6

1.2 MEASUREMENT UNCERTAINTY 6

1.3 TEST ENVIRONMENT CONDITIONS 6

2 . GENERAL INFORMATION 7

2.1 GENERAL DESCRIPTION OF EUT 7

2.2 DESCRIPTION OF TEST MODES 8

2.3 PARAMETERS OF TEST SOFTWARE 9

2.4 SUPPORT UNITS 9

3 . AC POWER LINE CONDUCTED EMISSIONS 10

3.1 LIMIT 10

3.2 TEST PROCEDURE 10

3.3 DEVIATION FROM TEST STANDARD 10

3.4 TEST SETUP 11

3.5 EUT OPERATING CONDITIONS 11

3.6 TEST RESULTS 11

4 . RADIATED EMISSIONS 12

4.1 LIMIT 12

4.2 TEST PROCEDURE 13

4.3 DEVIATION FROM TEST STANDARD 14

4.4 TEST SETUP 14

4.5 EUT OPERATING CONDITIONS 15

4.6 TEST RESULT - 9 KHZ TO 30 MHZ 15

4.7 TEST RESULT - 30 MHZ TO 1000 MHZ 15

4.8 TEST RESULT - ABOVE 1000 MHZ 15

5 . BANDWIDTH 16

5.1 LIMIT 16

5.2 TEST PROCEDURE 16

5.3 DEVIATION FROM STANDARD 16

5.4 TEST SETUP 16

5.5 EUT OPERATION CONDITIONS 16

5.6 TEST RESULTS 16

6 . MAXIMUM OUTPUT POWER 17

6.1 LIMIT 17
6.2 TEST PROCEDURE 17
6.3 DEVIATION FROM STANDARD 17
6.4 TEST SETUP 17
6.5 EUT OPERATION CONDITIONS 17
6.6 TEST RESULTS 17
7 . CONDUCTED SPURIOUS EMISSION 18
7.1 LIMIT 18
7.2 TEST PROCEDURE 18
7.3 DEVIATION FROM STANDARD 18
7.4 TEST SETUP 18
7.5 EUT OPERATION CONDITIONS 18
7.6 TEST RESULTS 18
8 . POWER SPECTRAL DENSITY 19
8.1 LIMIT 19
8.2 TEST PROCEDURE 19
8.3 DEVIATION FROM STANDARD 19
8.4 TEST SETUP 19
8.5 EUT OPERATION CONDITIONS 19
8.6 TEST RESULTS 19
9 . MEASUREMENT INSTRUMENTS LIST 20
10 . ANTENNA REQUIREMENT 21
APPENDIX A- AC POWER LINE CONDUCTED EMISSIONS 22
APPENDIX B- RADIATED EMISSION - 9 KHZ TO 30 MHZ 27
APPENDIX C- RADIATED EMISSION - 30 MHZ TO 1000 MHZ 28
APPENDIX D- RADIATED EMISSION - ABOVE 1000 MHZ 33
APPENDIX E BANDWIDTH 34
APPENDIX F- MAXIMUM OUTPUT POWER 43
APPENDIX G- CONDUCTED SPURIOUS EMISSION 48
APPENDIX H POWER SPECTRAL DENSITY 60

REPORT ISSUED HISTORY

Original Report Issue Date: 2026.08.07

● No additional attachment

○ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	------
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	------
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	------
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS	------
15.247(e)	Power Spectral Density	APPENDIX H	PASS	------
15.203	Antenna Requirement	------	PASS	Note(2)

Note:

(1) “N/A” denotes test is not applicable to this device.

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

1.1 TEST FACILITY

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	±102kHz
RF power conducted	±0.243dB
Power Spectral Density	±0.743dB
Conducted Spurious Emission	±1.328dB
Time	±0.19%
Conducted emission(9kHz~30MHz) AC main	±2.68dB
Radiated emission(9kHz~30MHz)	±3.50dB
Radiated emission (30MHz~1GHz)	±4.20dB
Radiated emission (1GHz~18GHz)	±5.10dB
Radiated emission (18GHz~40GHz)	±5.26dB

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	22.6°C	55%	AC 120V/60Hz	Keith Huang
Radiated Emissions-9 kHz to 30 MHz	23.7°C	52%	AC 120V/60Hz	Lemon He
Radiated Emissions-30 MHz to 1000 MHz	23.7°C	52%	AC 120V/60Hz	Lemon He
Radiated Emissions-Above 1000 MHz	23.7°C	52%	AC 120V/60Hz	Lemon He
Bandwidth	23.4°C	48%	DC 12V	Elio Lin
Maximum Output Power	23.4°C	48%	DC 12V	Elio Lin
Conducted Spurious Emission	23.4°C	48%	DC 12V	Elio Lin
Power Spectral Density	23.4°C	48%	DC 12V	Elio Lin

Note: Adapter supply voltage AC 120V/60Hz.
The applicant declare the operating environment of EUT as below:
Normal conditions: DC 12V, -10~45°C

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Sample No.	POC260626001-S007
Product name	2.4/5GHz WiFi Vandal-proof Dome Camera
Model name	GL-264RL-N1V1BY, W7A, D500
Test model	GL-264RL-N1V1BY
Model difference	Only the model name and colors are different.
Trade Mark	N/A
Power supply	12VDC or PoE48VDC
Operate temperature	-10℃-45℃
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	6.11 dBm (4.08mW)
Antenna gain	1.73dBi
Antenna type	External antenna

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Channel List:

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39
Mode 3	TX Mode_2Mbps Channel 19

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 3	TX Mode_2Mbps Channel 19

Radiated emissions test – Below 1GHz	
Final Test Mode	Description
Mode 3	TX Mode_2Mbps Channel 19

Radiated emissions test – Above 1GHz	
Final Test Mode	Description
Mode 2	TX Mode_2Mbps Channel 00/19/39

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39

Note:

(1) For radiated emission above 1 GHz test, the spurious points of 1GHz~18GHz and 18GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

(2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the TX Mode_2Mbps Channel 00 is found to be the worst case and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	SecureCRT		
Frequency (MHz)	2402	2440	2480
1Mbps	Default	Default	Default
2Mbps	Default	Default	Default

2.4 SUPPORT UNITS

No.	Equipment	Model	Manufacturer	Series No
1	8-port Gigabit PoE switch	SW-08	/	/
2	Notebook	L450	Think	/
3	Adapter	CS-1202000	/	/

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

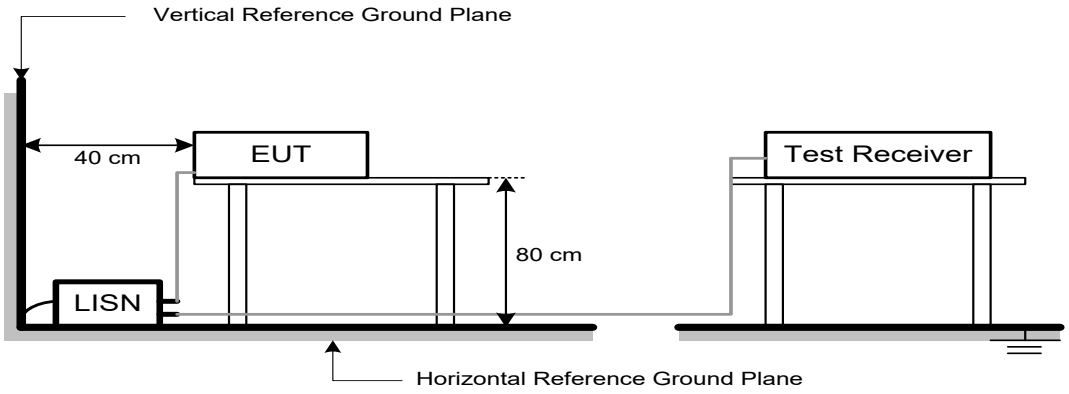
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a "*" marked in AVG Mode column of Interference Voltage Measured.

(2) Measuring frequency range from 150 kHz to 30 MHz.

4. RADIATED EMISSIONS

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

Note:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2 TEST PROCEDURE

a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1 GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1 GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

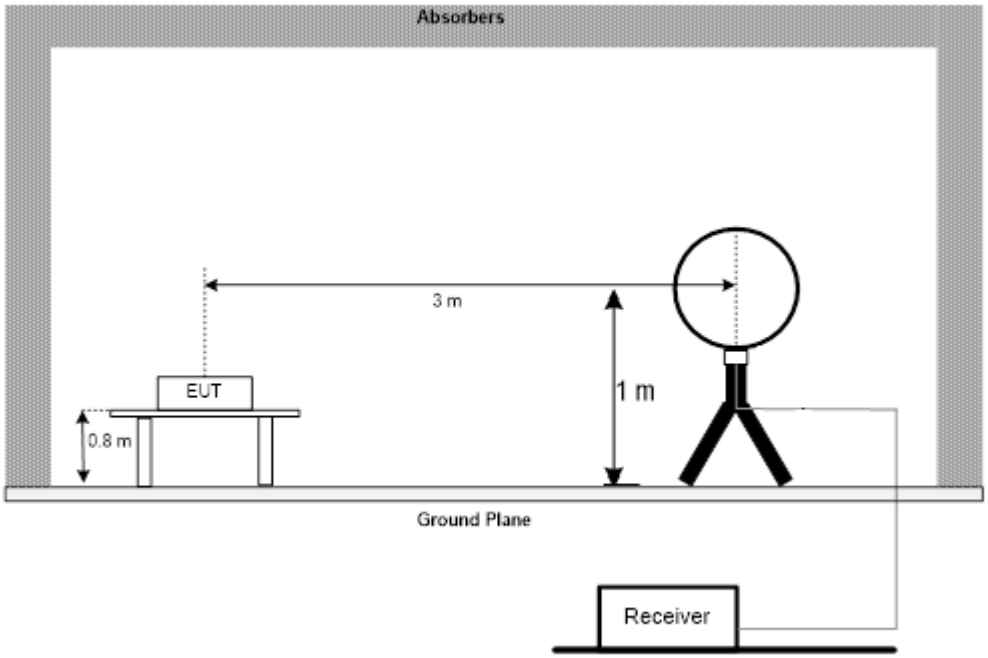
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

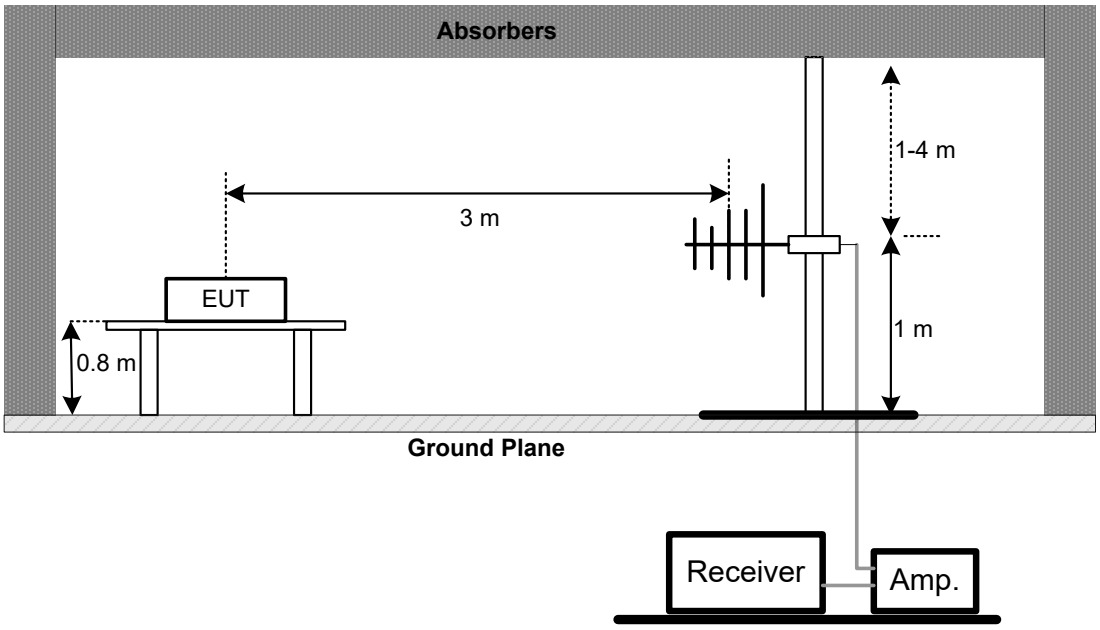
No deviation.

4.4 TEST SETUP

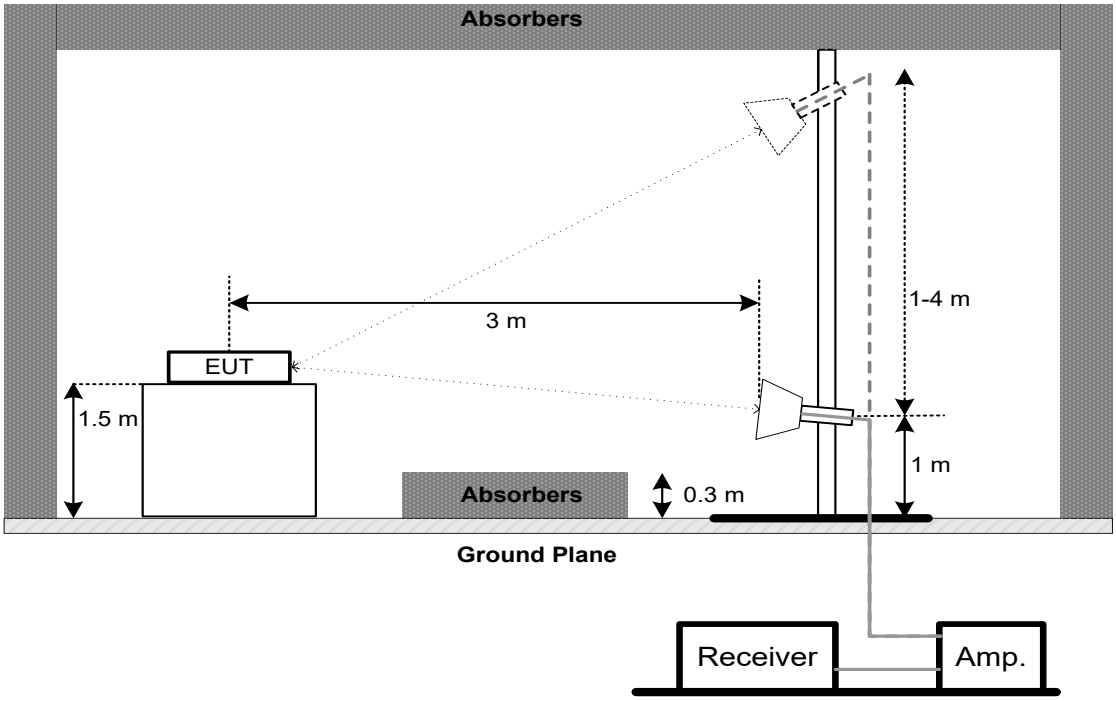
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	>= 500 kHz
	99% Emission Bandwidth	-

5.2 TEST PROCEDURE

a. The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.

b. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

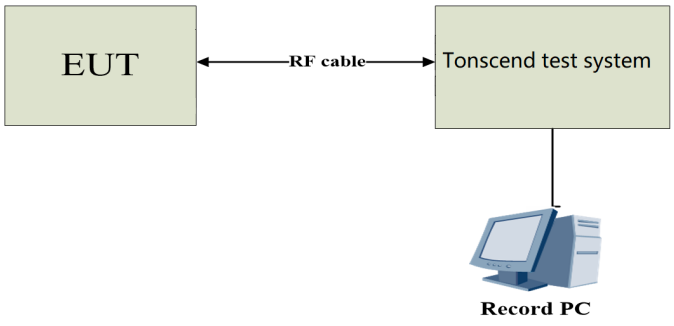
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	1% to 5% of the OBW
VBW	approximately three times RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 dBm

6.2 TEST PROCEDURE

a. The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.

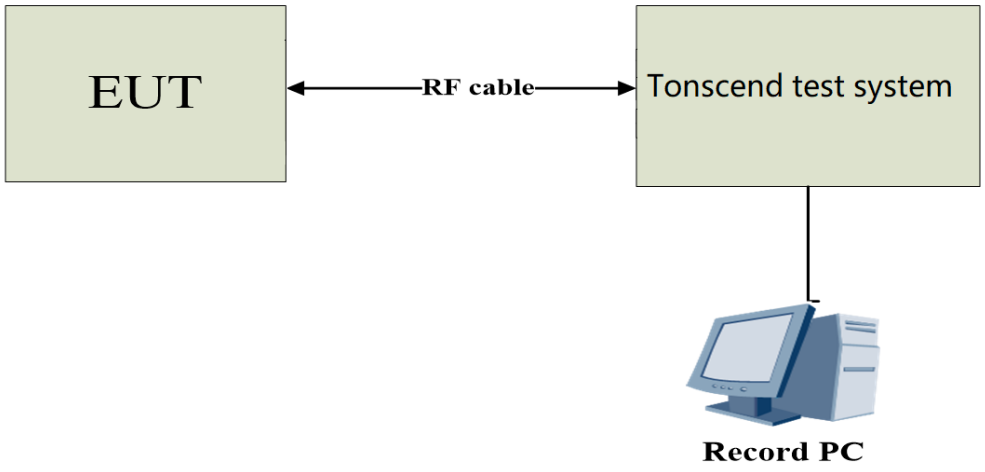
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	≥ 3×RBW
RBW	2 MHz
VBW	6 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F

7. CONDUCTED SPURIOUS EMISSION

7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

7.2 TEST PROCEDURE

a. The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.

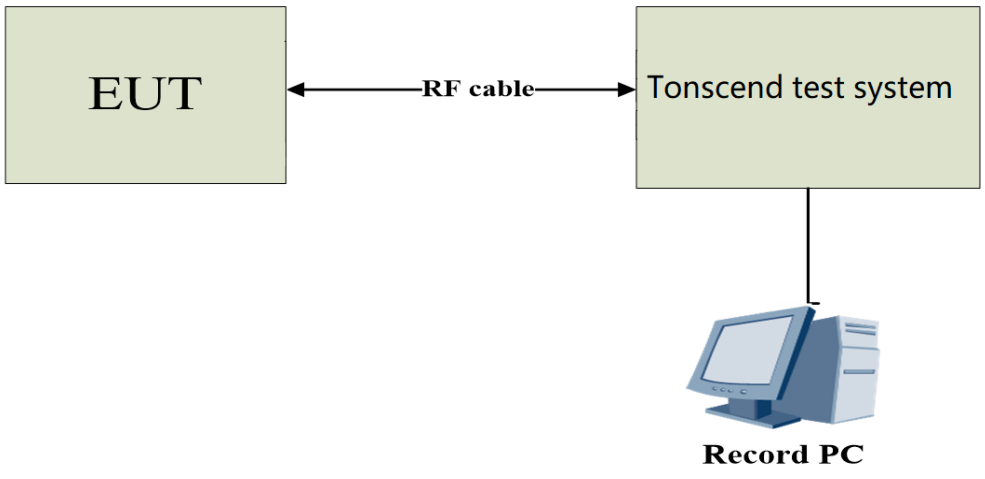
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX **G**.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

8.2 TEST PROCEDURE

a. The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.

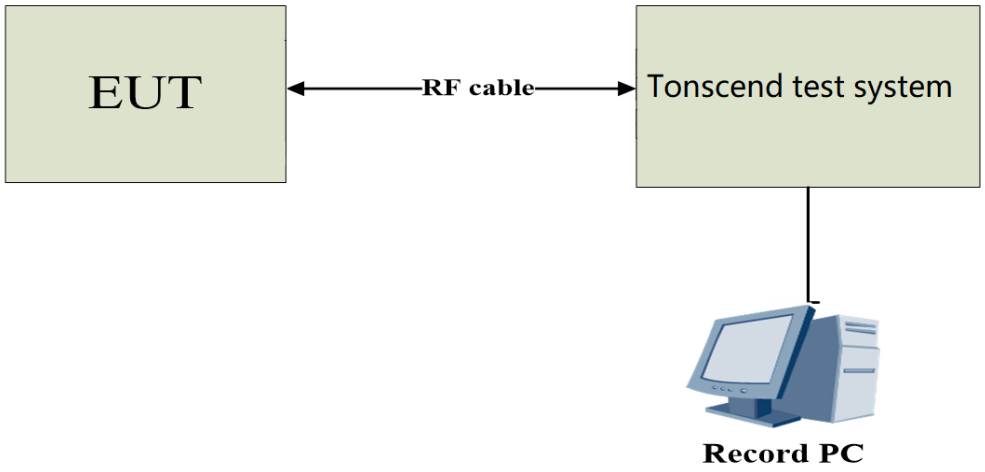
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	1.5 times DTS bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

No.	Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2026/2/27	2027/2/26
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2028/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2026/2/27	2027/2/26
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2026/2/27	2027/2/26
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2028/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2026/4/8	2027/4/7
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2026/2/27	2027/2/26
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2026/2/27	2027/2/26
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2026/2/27	2027/2/26
3	ISN	Schwarzbeck	CAT 3 8158	00187	JLE032	2026/2/27	2027/2/26
4	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2026/2/27	2027/2/26
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2026/2/27	2027/2/26
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2026/4/8	2027/4/7
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emissions							
1	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	6625-01-588-5515	JLE120	2026/1/19	2027/1/18
2	RF Control Unit	dsusoft	JS0806-2	21G8060449	JLE053	2026/2/27	2027/2/26
3	power supply unit	dsusoft	JS0806-4ADC	N/A	JLE055	2026/2/27	2027/2/26
4	VXG Signal Generator	Keysight	N5182B	MY59100855	JLE068	2026/4/11	2027/4/10
5	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	JLE052	2026/2/27	2027/2/26
6	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002K50-116064-Dt	JLE054	2026/2/27	2027/2/26
7	Test software	dsusoft	JS1120-3 Ver.3.2.22.0				

10. ANTENNA REQUIREMENT

Test standard: FCC part 15.203

According to the manufacturer declared, the EUT has one Integrated antenna, the antenna gain is 1.73dBi and the antenna connector is designed with permanent attachment.

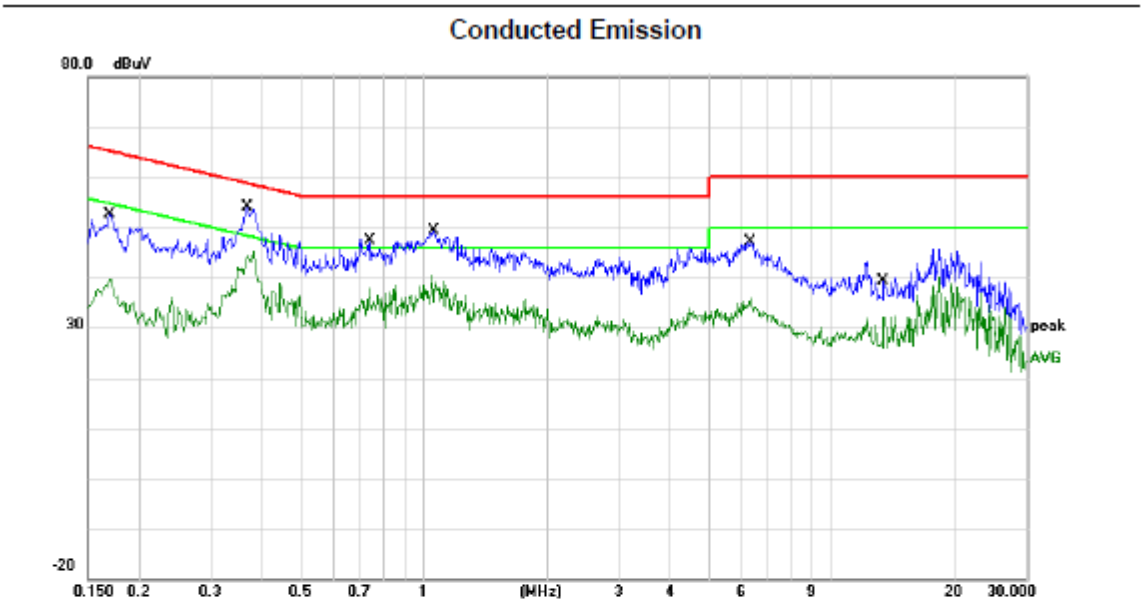
Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

APPENDIX A- AC POWER LINE CONDUCTED EMISSIONS

DC 12V adapter

Test Mode	TX Mode_2Mbps Channel 19	Phase	Line

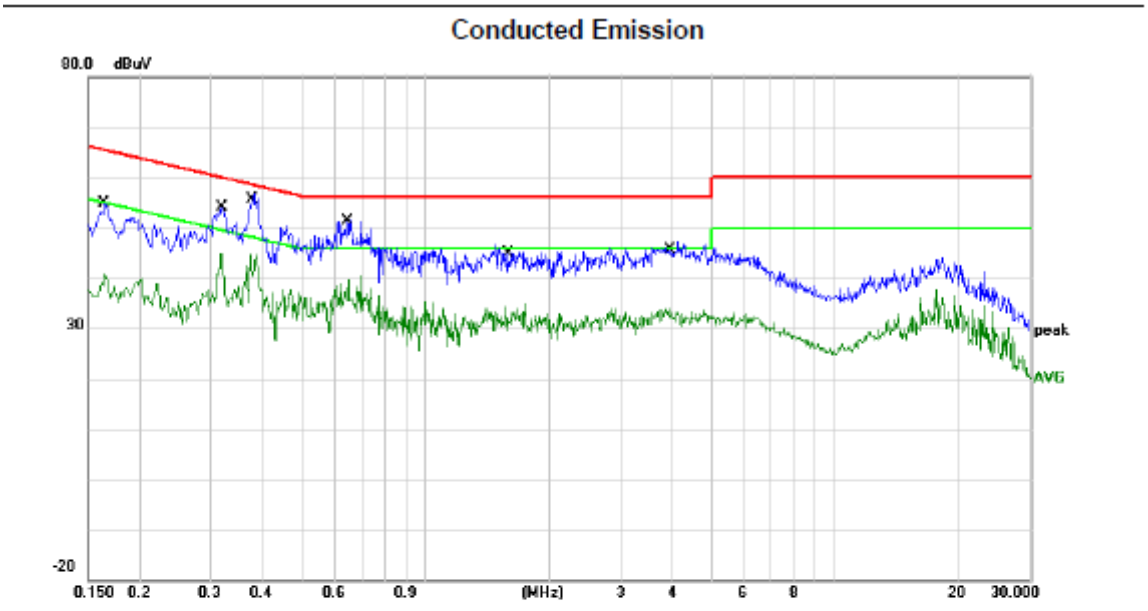


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.1694	32.91	19.64	52.55	64.99	-12.44	QP			
2		0.1694	20.02	19.64	39.66	54.99	-15.33	AVG			
3		0.3695	34.66	19.46	54.12	58.51	-4.39	QP			
4	*	0.3695	24.99	19.46	44.45	48.51	-4.06	AVG			
5		0.7324	28.13	19.51	47.64	56.00	-8.36	QP			
6		0.7324	18.37	19.51	37.88	46.00	-8.12	AVG			
7		1.0505	27.21	19.33	46.54	56.00	-9.46	QP			
8		1.0505	21.29	19.33	40.62	46.00	-5.38	AVG			
9		6.3087	27.66	19.43	47.09	60.00	-12.91	QP			
10		6.3087	16.42	19.43	35.85	50.00	-14.15	AVG			
11		13.4684	23.92	19.42	43.34	60.00	-16.66	QP			
12		13.4684	12.60	19.42	32.02	50.00	-17.98	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

DC 12V adapter

Test Mode	TX Mode_2Mbps Channel 19	Phase	Neutral

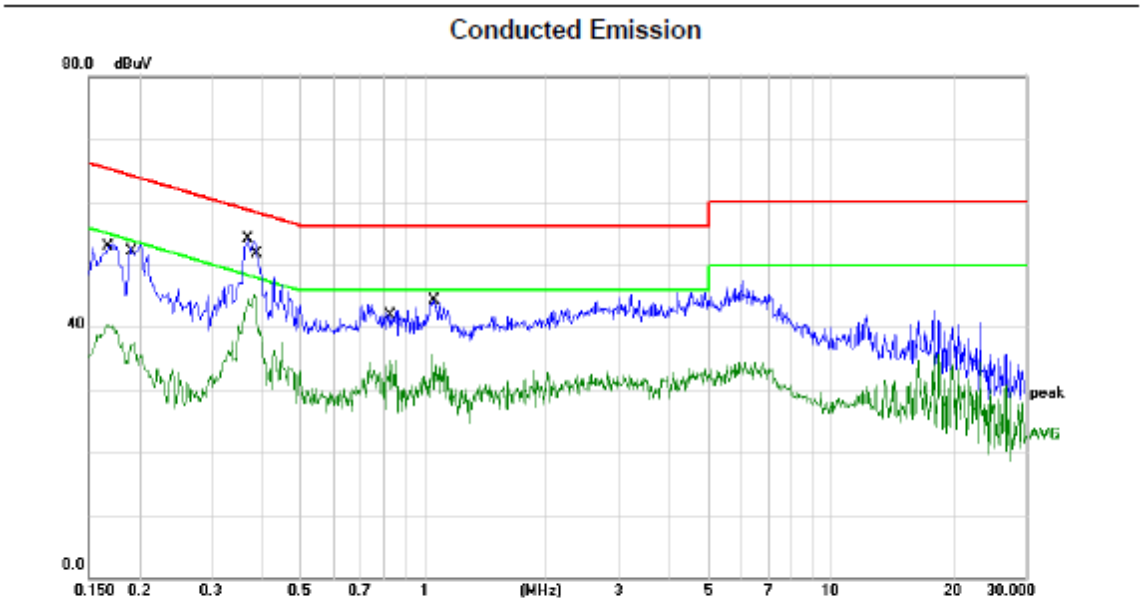


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.1640	37.19	19.57	56.76	65.26	-8.50	QP			
2		0.1640	21.25	19.57	40.82	55.26	-14.44	AVG			
3		0.3185	34.51	19.64	54.15	59.75	-5.60	QP			
4		0.3185	25.26	19.64	44.90	49.75	-4.85	AVG			
5	*	0.3734	35.13	19.63	54.76	58.42	-3.66	QP			
6		0.3734	24.92	19.63	44.55	48.42	-3.87	AVG			
7		0.6481	32.02	19.56	51.58	56.00	-4.42	QP			
8		0.6481	20.17	19.56	39.73	46.00	-6.27	AVG			
9		1.5720	27.89	19.58	47.47	56.00	-8.53	QP			
10		1.5720	14.73	19.58	34.31	46.00	-11.69	AVG			
11		3.9770	27.21	19.47	46.68	56.00	-9.32	QP			
12		3.9770	14.43	19.47	33.90	46.00	-12.10	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

DC 48V POE

Test Mode	TX Mode_2Mbps Channel 19	Phase	Line

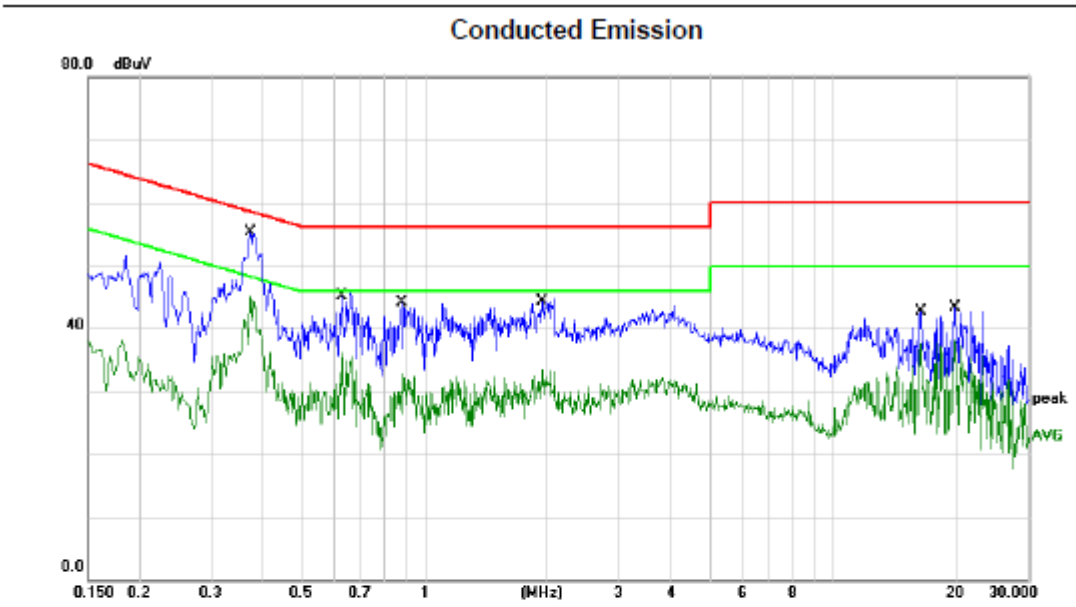


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.1668	33.71	19.64	53.35	65.12	-11.77	QP			
2		0.1668	20.86	19.64	40.50	55.12	-14.62	AVG			
3		0.1935	33.54	19.64	53.18	63.88	-10.70	QP			
4		0.1935	17.89	19.64	37.53	53.88	-16.35	AVG			
5		0.3695	34.66	19.46	54.12	58.51	-4.39	QP			
6	*	0.3695	24.99	19.46	44.45	48.51	-4.06	AVG			
7		0.3938	28.38	19.44	47.82	57.98	-10.16	QP			
8		0.3938	20.25	19.44	39.69	47.98	-8.29	AVG			
9		0.8231	24.35	19.45	43.80	56.00	-12.20	QP			
10		0.8231	15.25	19.45	34.70	46.00	-11.30	AVG			
11		1.0505	24.99	19.33	44.32	56.00	-11.68	QP			
12		1.0505	16.29	19.33	35.62	46.00	-10.38	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

DC 48V POE

Test Mode	TX Mode_2Mbps Channel 19	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.3740	27.03	19.46	46.49	58.41	-11.92	QP			
2	*	0.3740	25.65	19.46	45.11	48.41	-3.30	AVG			
3		0.6300	17.73	19.46	37.19	56.00	-18.81	QP			
4		0.6300	16.68	19.46	36.14	46.00	-9.86	AVG			
5		0.8780	14.78	19.41	34.19	56.00	-21.81	QP			
6		0.8780	13.34	19.41	32.75	46.00	-13.25	AVG			
7		1.9420	16.99	19.32	36.31	56.00	-19.69	QP			
8		1.9420	14.21	19.32	33.53	46.00	-12.47	AVG			
9		16.2300	11.38	19.40	30.78	60.00	-29.22	QP			
10		16.2300	18.02	19.40	37.42	50.00	-12.58	AVG			
11		19.7100	16.89	19.52	36.41	60.00	-23.59	QP			
12		19.7100	18.60	19.52	38.12	50.00	-11.88	AVG			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B- RADIATED EMISSION - 9 KHZ TO 30 MHZ

Radiated emission: 9KHz-30MHz

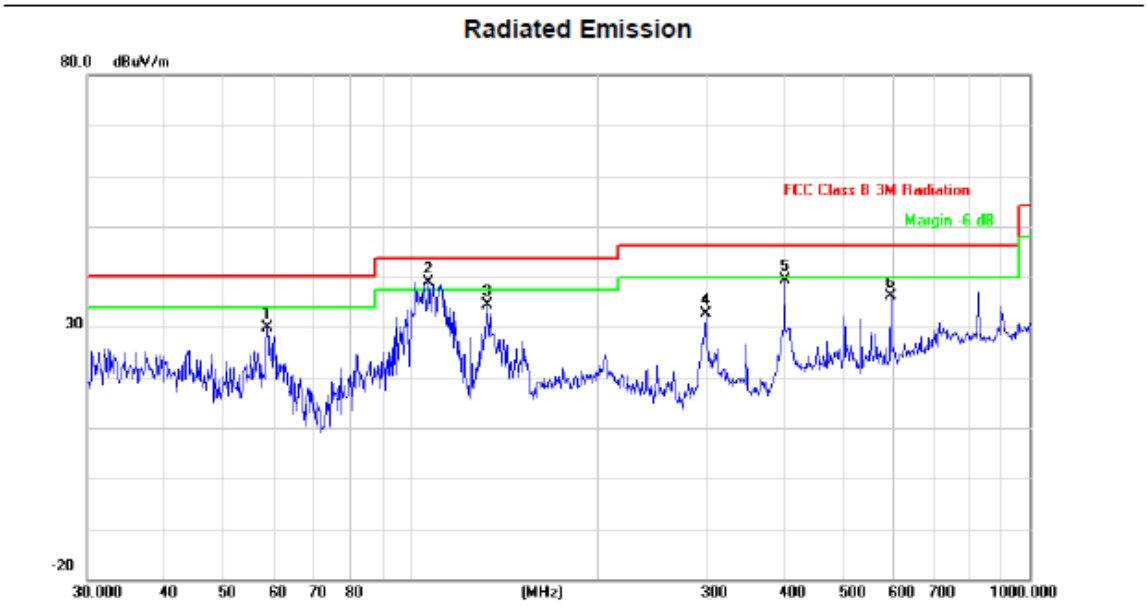
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C- RADIATED EMISSION - 30 MHZ TO 1000 MHZ

DC 12V adapter

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Vertical

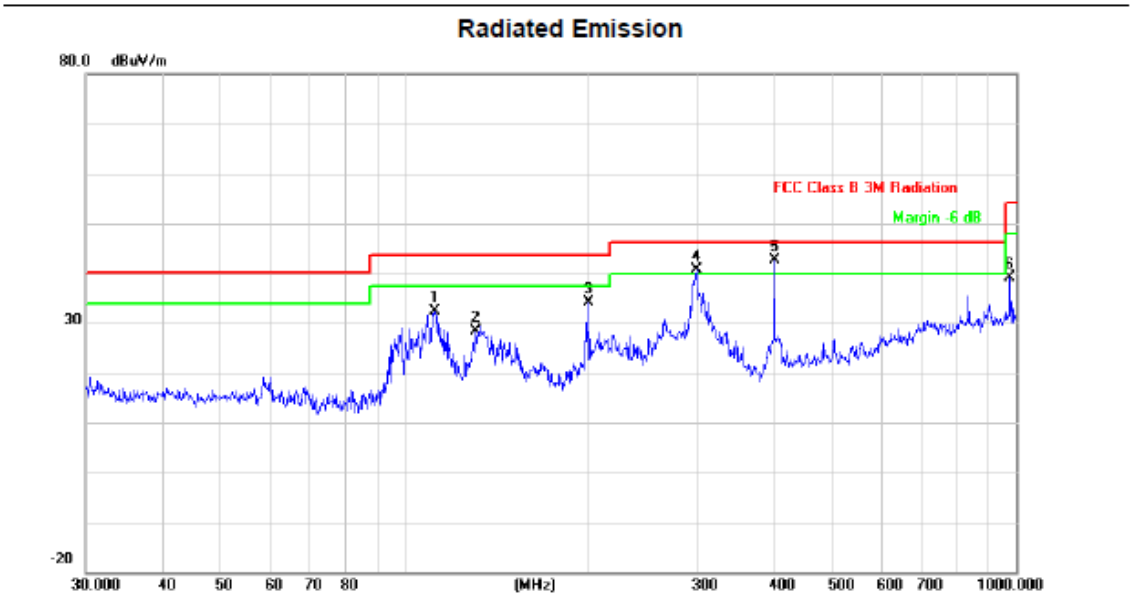


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		58.6126	40.78	-10.89	29.89	40.00	-10.11	peak			
2	*	106.7587	52.62	-13.72	38.90	43.50	-4.60	peak			
3		132.6850	44.71	-10.31	34.40	43.50	-9.10	peak			
4		299.3158	42.51	-9.97	32.54	46.00	-13.46	peak			
5		401.8383	47.17	-7.69	39.48	46.00	-6.52	peak			
6		595.1326	38.80	-2.76	36.04	46.00	-9.96	peak			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

DC 12V adapter

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Horizontal

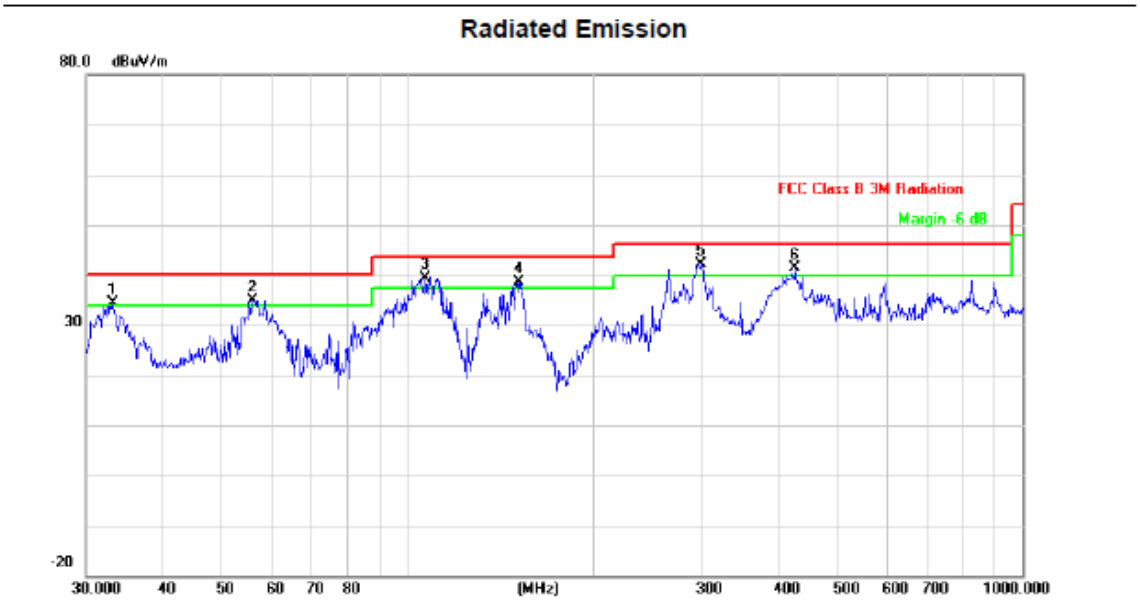


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		111.7380	43.87	-11.55	32.32	43.50	-11.18	peak			
2		130.3790	38.86	-10.36	28.50	43.50	-15.00	peak			
3		199.2855	47.98	-13.89	34.09	43.50	-9.41	peak			
4	!	299.3158	50.71	-9.97	40.74	46.00	-5.26	peak			
5	*	401.8383	50.26	-7.69	42.57	46.00	-3.43	peak			
6		975.7527	36.69	2.41	39.10	54.00	-14.90	peak			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

DC 48V POE

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Vertical

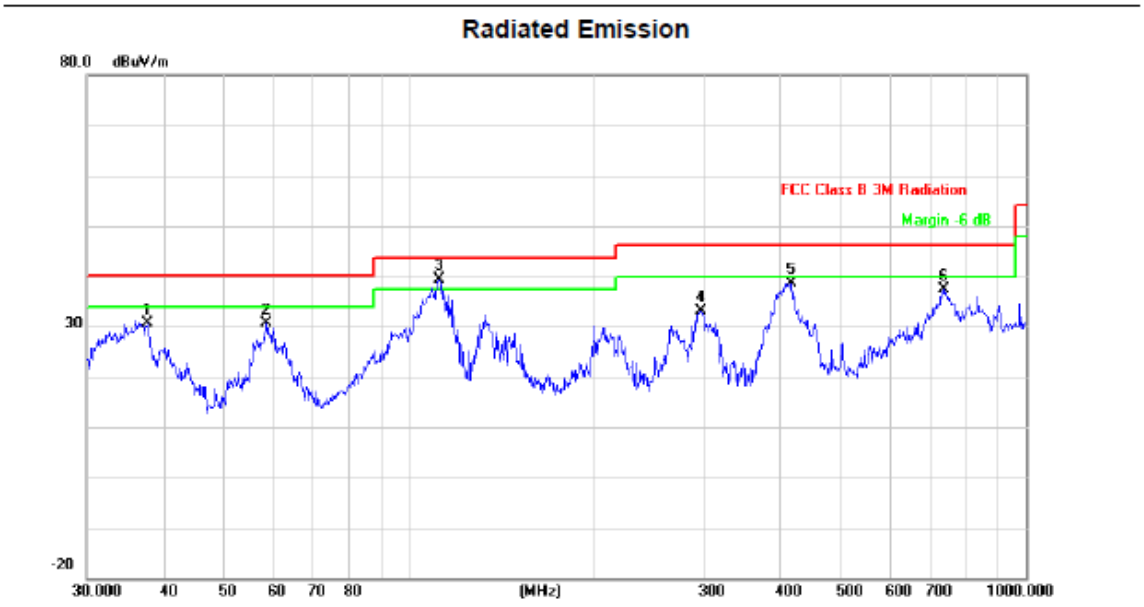


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	33.0950	45.84	-11.36	34.48	40.00	-5.52	peak			
2	!	56.1974	46.38	-11.46	34.92	40.00	-5.08	peak			
3	!	106.7587	53.12	-13.72	39.40	43.50	-4.10	peak			
4	!	151.5971	48.49	-9.83	38.66	43.50	-4.84	peak			
5	*	300.3672	52.09	-9.86	42.23	46.00	-3.77	peak			
6	!	426.5210	48.71	-7.31	41.40	46.00	-4.60	peak			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

DC 48V POE

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		37.5478	41.28	-10.74	30.54	40.00	-9.46	peak			
2		58.6126	41.60	-10.89	30.71	40.00	-9.29	peak			
3	*	111.7380	50.87	-11.55	39.32	43.50	-4.18	peak			
4		297.2240	43.21	-10.15	33.06	46.00	-12.94	peak			
5		416.1791	46.09	-7.38	38.71	46.00	-7.29	peak			
6		734.4913	37.83	-0.44	37.39	46.00	-8.61	peak			

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D- RADIATED EMISSION - ABOVE 1000 MHZ

Frequency (MHz)	Read Level (dBμV)	Polarization	Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
BLE_2M TX CH00							
4804.00	50.85	H	-3.94	46.91	74.00	27.09	peak
2310.00	46.54	H	-1.98	44.56	74.00	29.44	peak
2390.00	46.73	H	-1.58	45.15	74.00	28.85	peak
4804.00	51.22	V	-3.94	47.28	74.00	26.72	peak
2310.00	47.53	V	-1.98	45.55	74.00	28.45	peak
2390.00	47.00	V	-1.58	45.42	74.00	28.58	peak
BLE_2M TX CH19							
4880.00	57.31	H	-3.97	53.34	74.00	20.66	peak
4880.00	55.92	V	-3.97	51.95	74.00	22.05	peak
BLE_2M TX CH39							
4960.00	50.61	H	-3.91	46.70	74.00	27.30	peak
2483.50	47.22	H	-0.62	46.60	74.00	27.40	peak
2500.00	44.55	H	-0.45	44.10	74.00	29.90	peak
4960.00	50.48	V	-3.91	46.57	74.00	27.43	peak
2483.50	47.11	V	-0.62	46.49	74.00	27.51	peak
2500.00	46.66	V	-0.45	46.21	74.00	27.79	peak

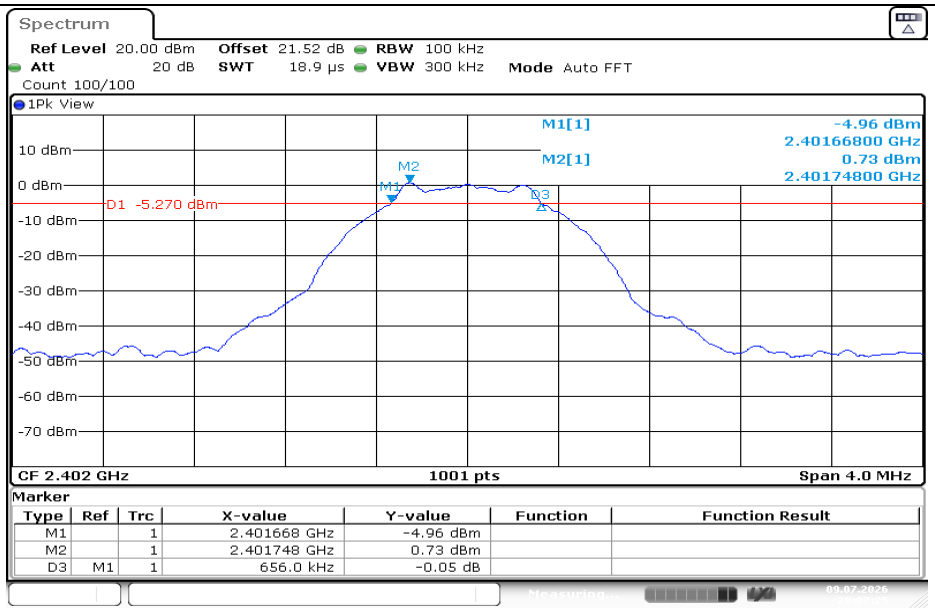
Note: 1. The other emission levels were very low against the limit.
2. Measurement = Reading Level+ Correct Factor, Margin = Limit- Measurement

APPENDIX E BANDWIDTH

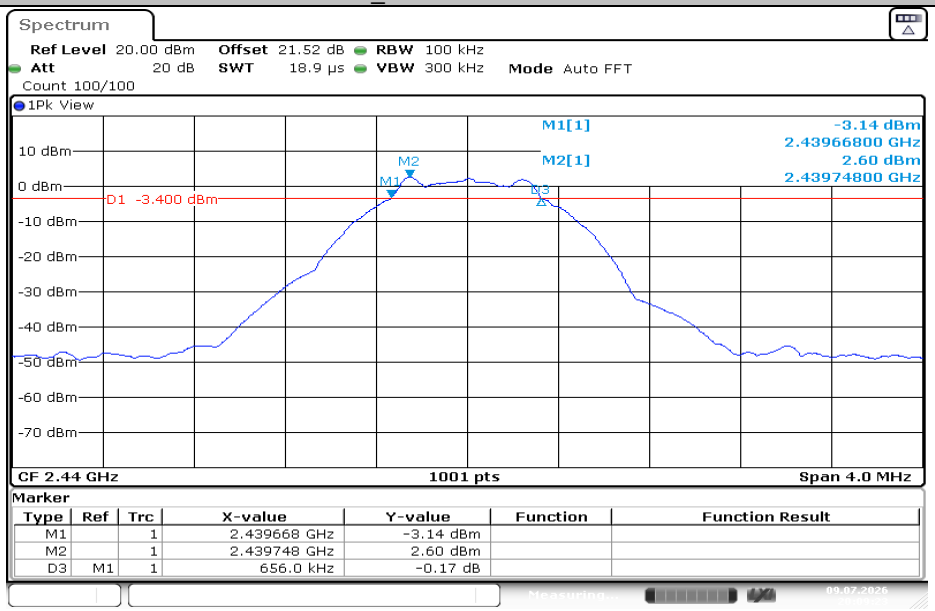
6 dB Bandwidth

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.67	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.67	2440.32	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.67	2480.32	0.5	PASS
BLE_2M	Ant1	2402	1.15	2401.41	2402.56	0.5	PASS
BLE_2M	Ant1	2440	1.15	2439.41	2440.56	0.5	PASS
BLE_2M	Ant1	2480	1.14	2479.42	2480.56	0.5	PASS

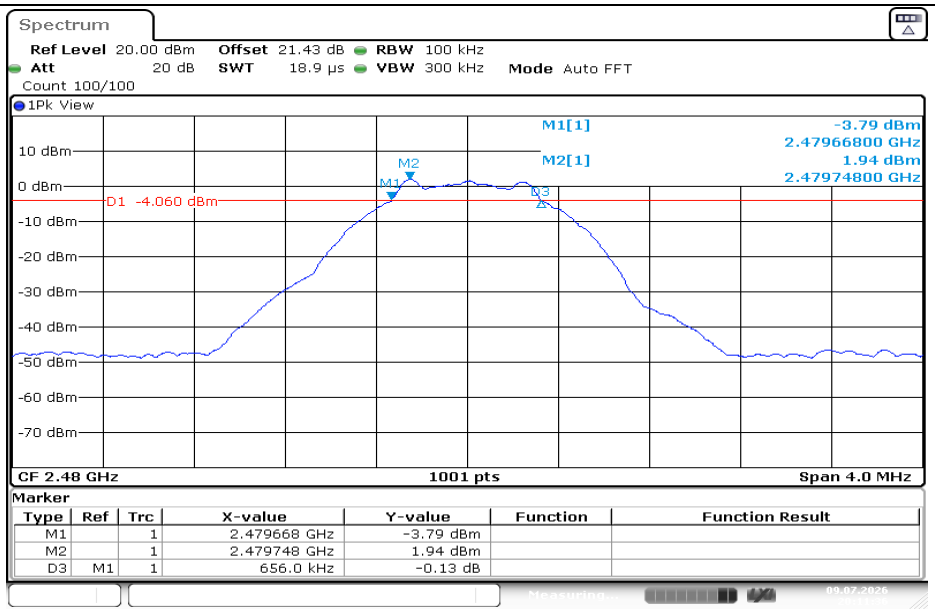
Test Graphs



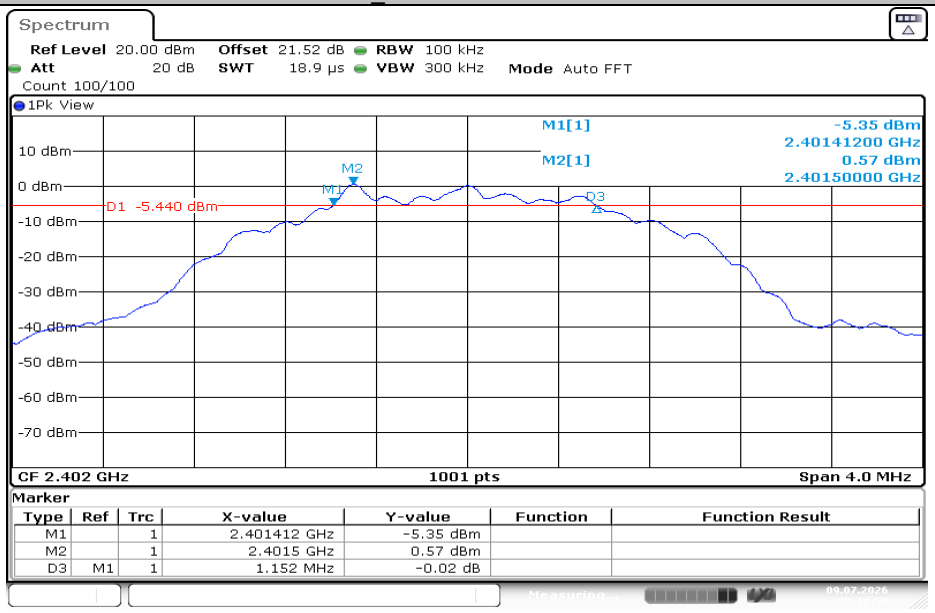
BLE_1M-Ant1-2402-PASS



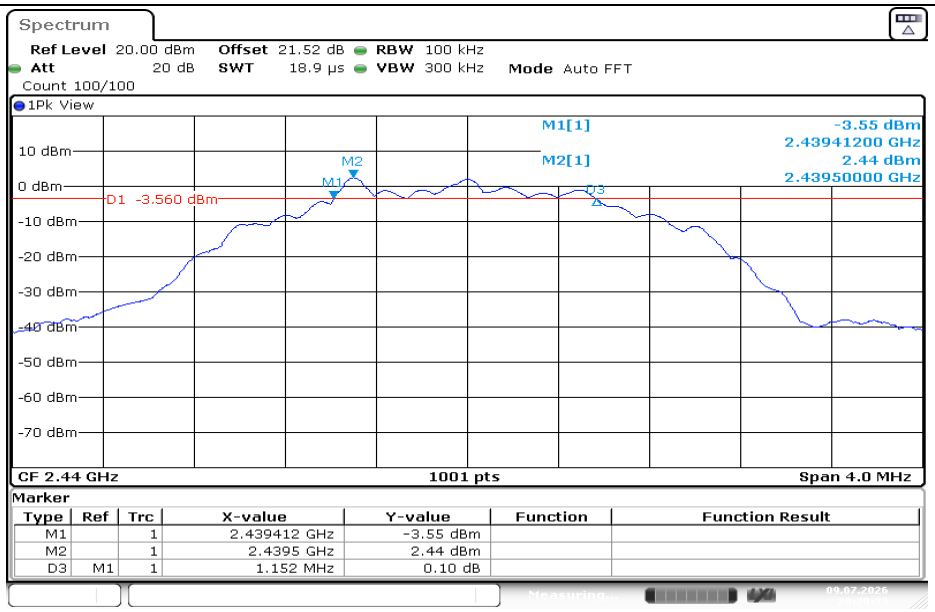
BLE_1M-Ant1-2440-PASS



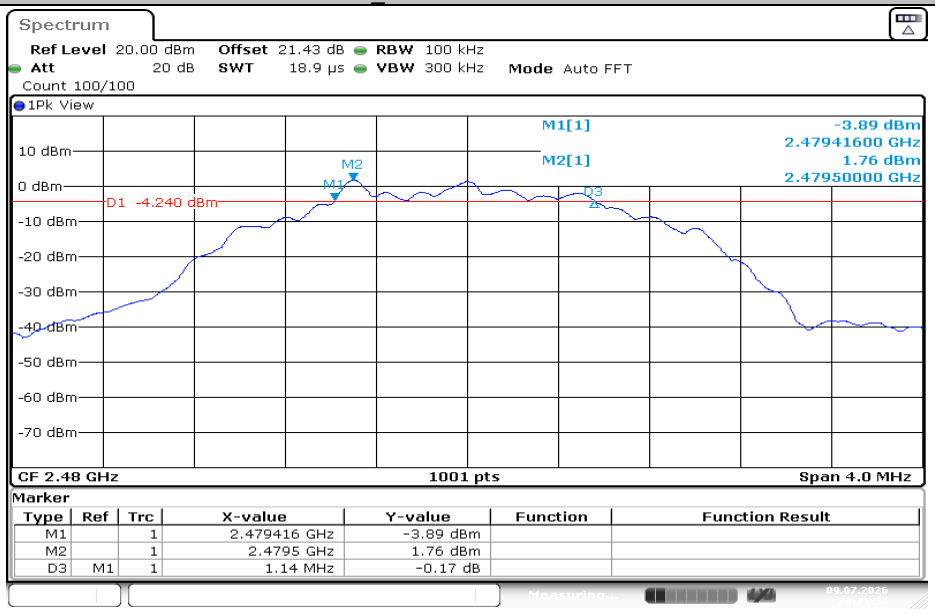
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

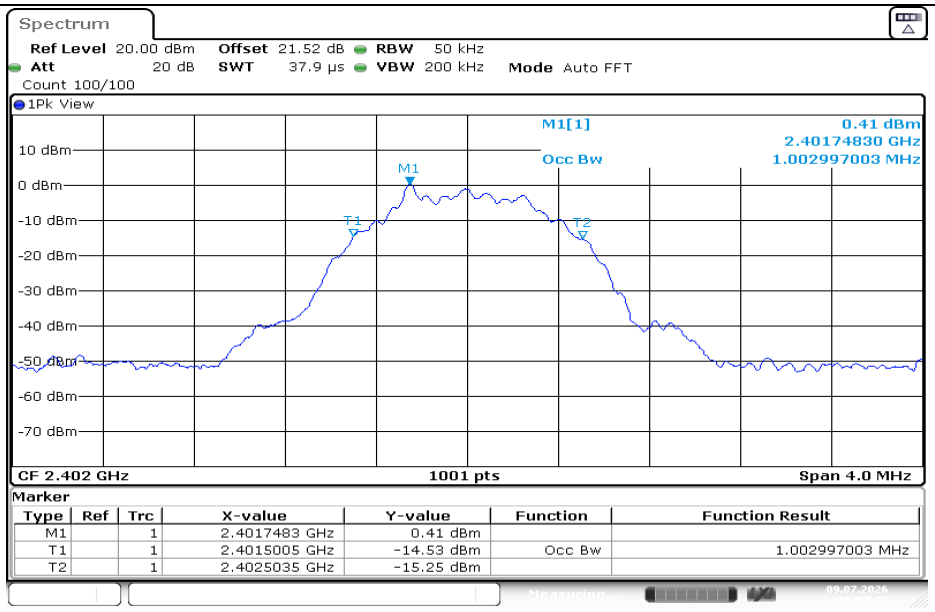


BLE_2M-Ant1-2480-PASS

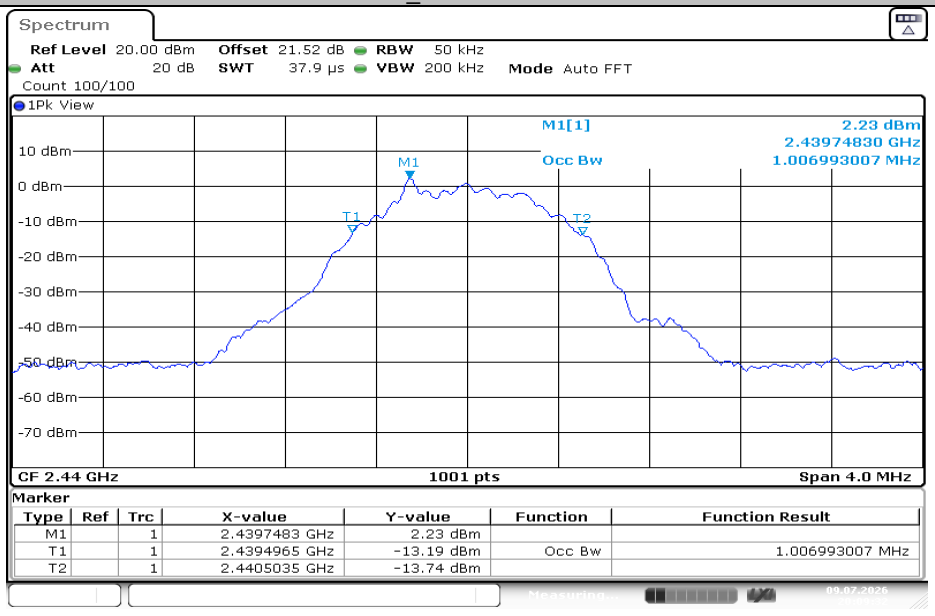
99% Emission Bandwidth

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0030	2401.5005	2402.5035	---	---
BLE_1M	Ant1	2440	1.0070	2439.4965	2440.5035	---	---
BLE_1M	Ant1	2480	1.0110	2479.4965	2480.5075	---	---
BLE_2M	Ant1	2402	2.0140	2401.0090	2403.0230	---	---
BLE_2M	Ant1	2440	2.0100	2439.0090	2441.0190	---	---
BLE_2M	Ant1	2480	2.0140	2479.0050	2481.0190	---	---

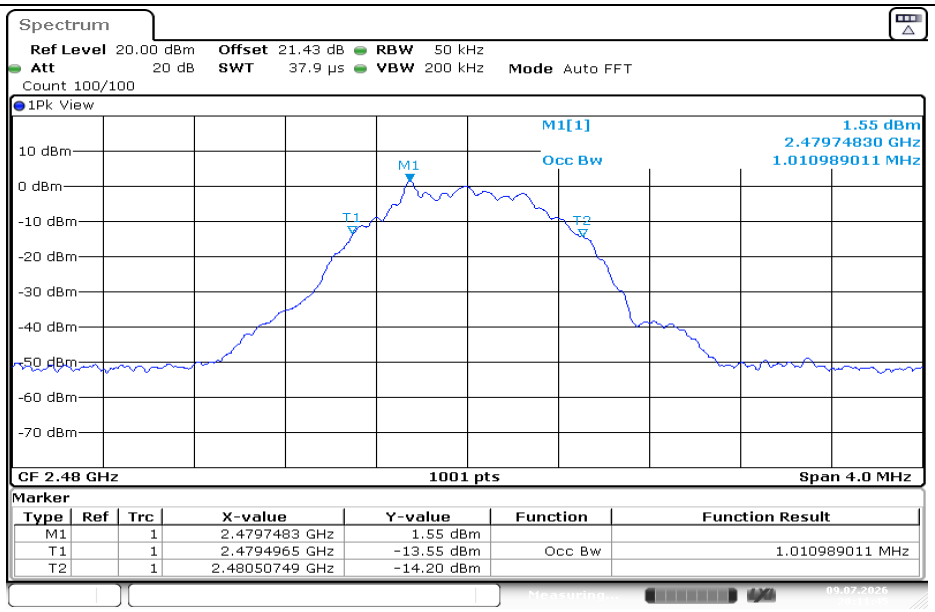
Test Graphs



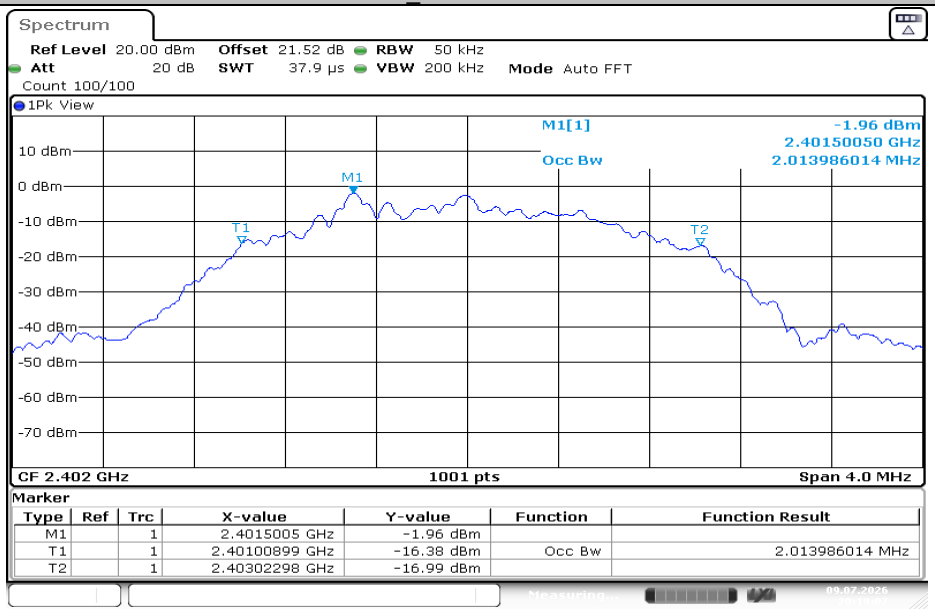
BLE_1M-Ant1-2402



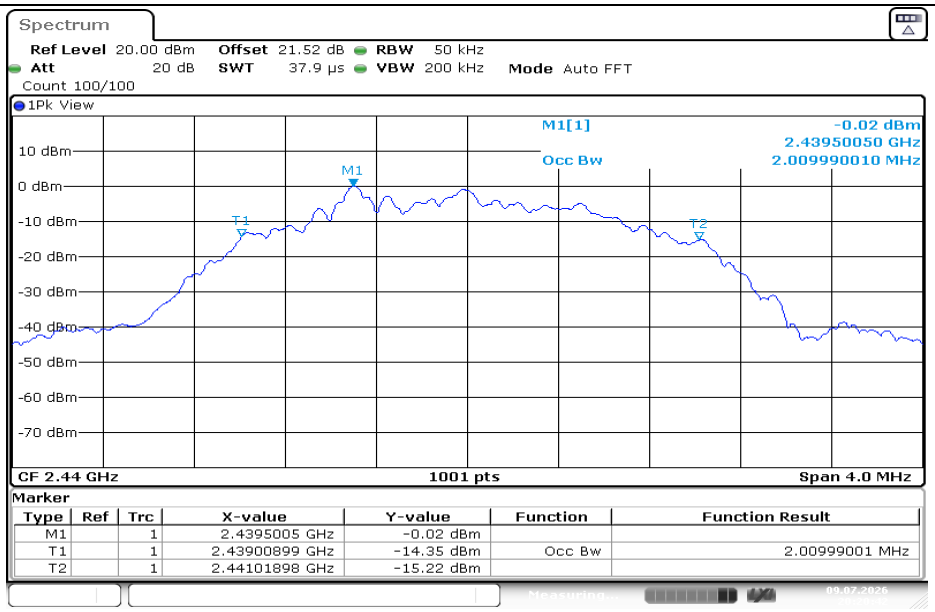
BLE_1M-Ant1-2440



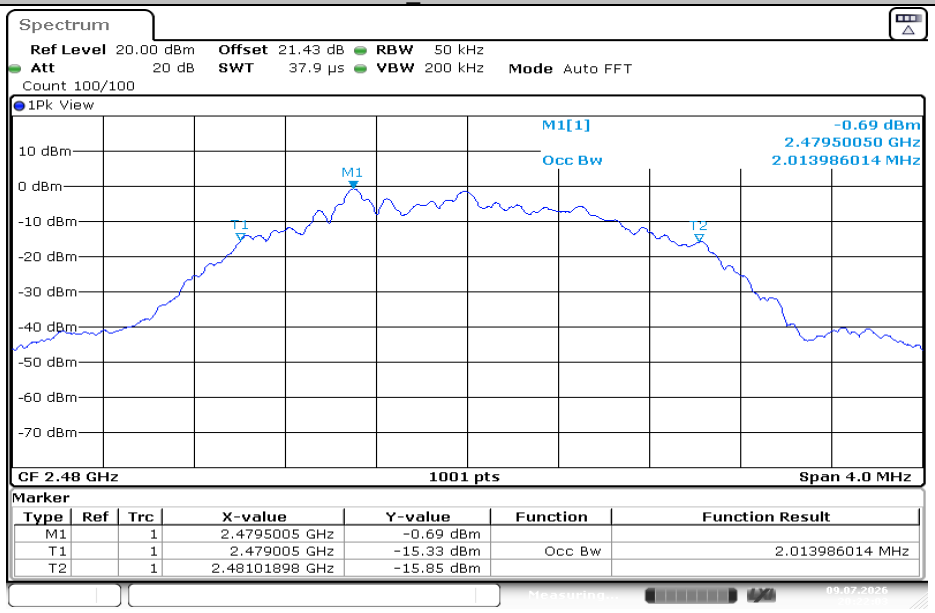
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440

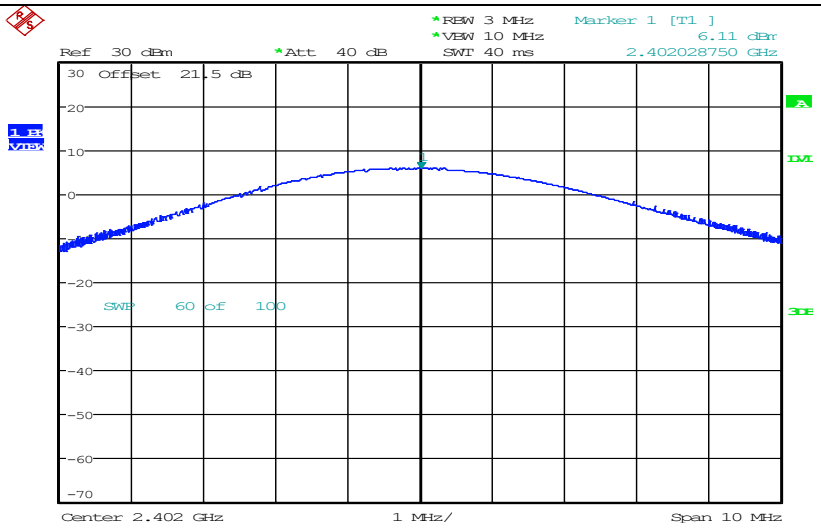


BLE_2M-Ant1-2480

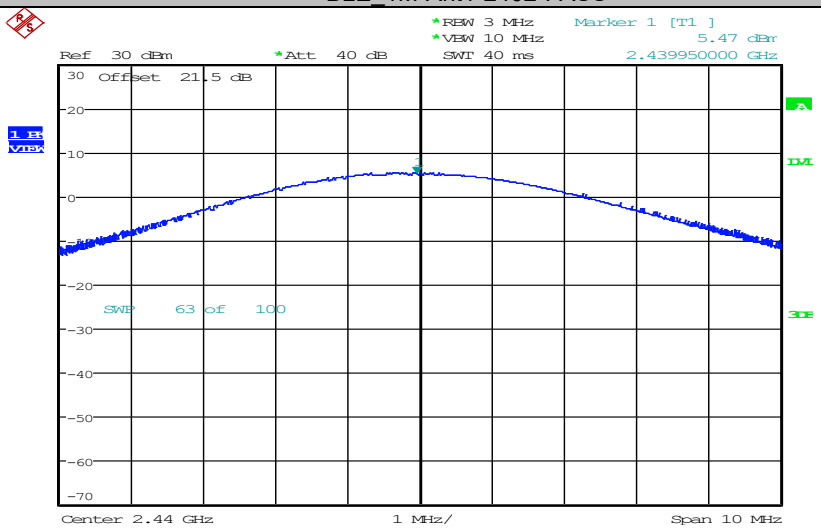
APPENDIX F- MAXIMUM OUTPUT POWER

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	**6.11**	≤30	PASS
BLE_1M	Ant1	2440	5.47	≤30	PASS
BLE_1M	Ant1	2480	4.98	≤30	PASS
BLE_2M	Ant1	2402	6.08	≤30	PASS
BLE_2M	Ant1	2440	5.47	≤30	PASS
BLE_2M	Ant1	2480	5.07	≤30	PASS

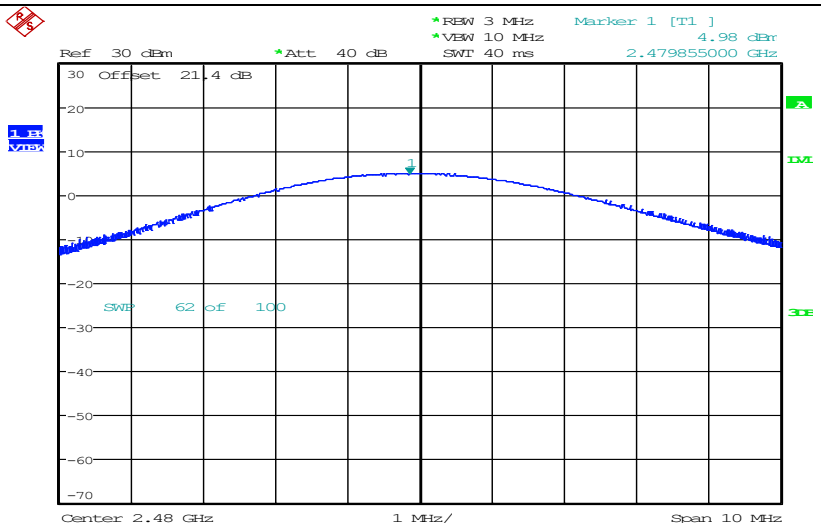
Test Graphs



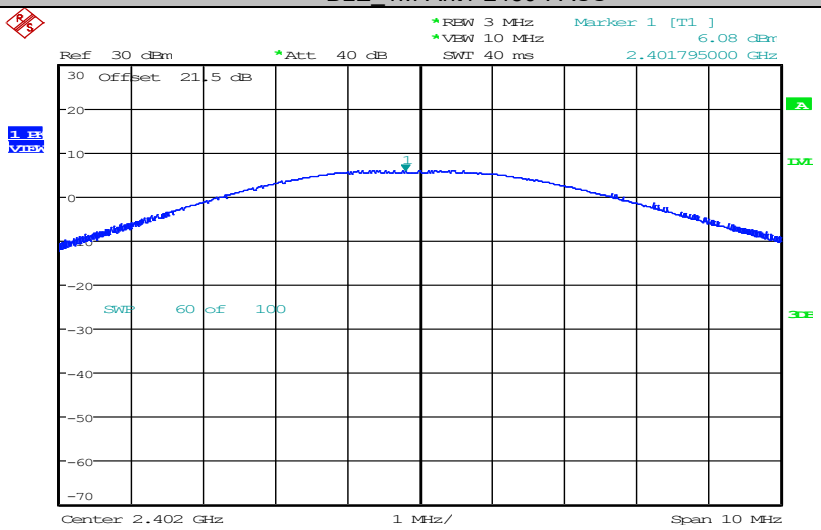
BLE_1M-Ant1-2402-PASS



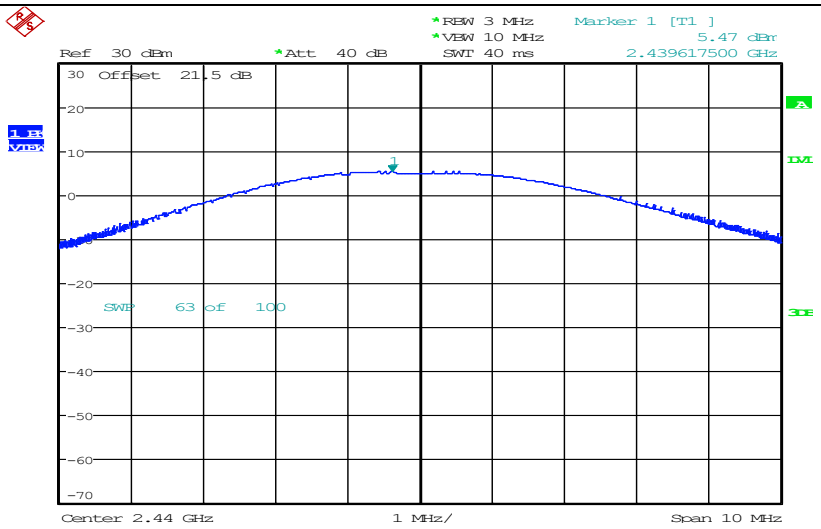
BLE_1M-Ant1-2440-PASS



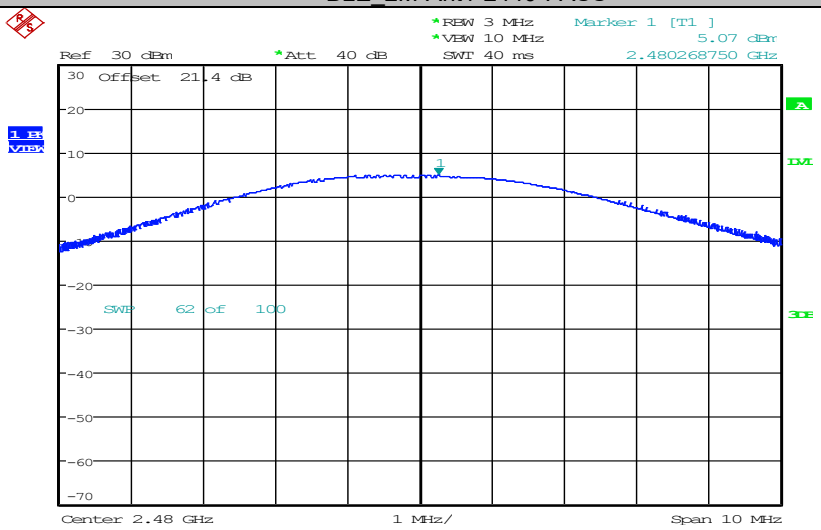
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



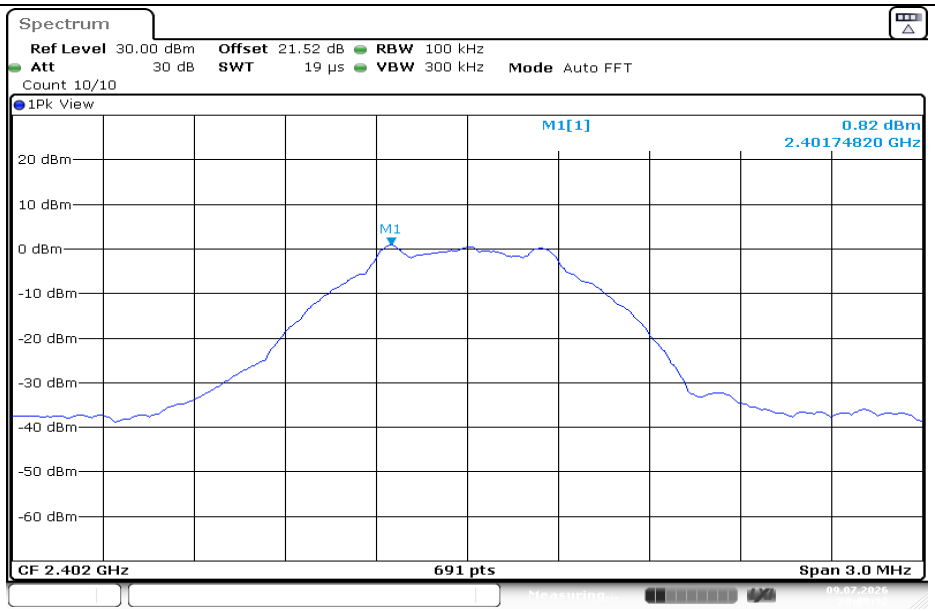
BLE_2M-Ant1-2440-PASS



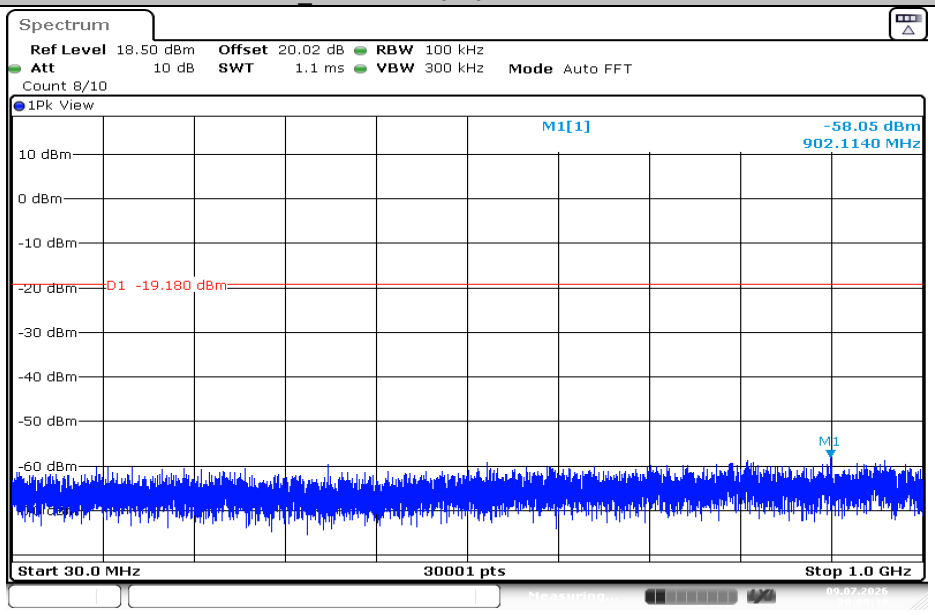
BLE_2M-Ant1-2480-PASS

APPENDIX G- CONDUCTED SPURIOUS EMISSION

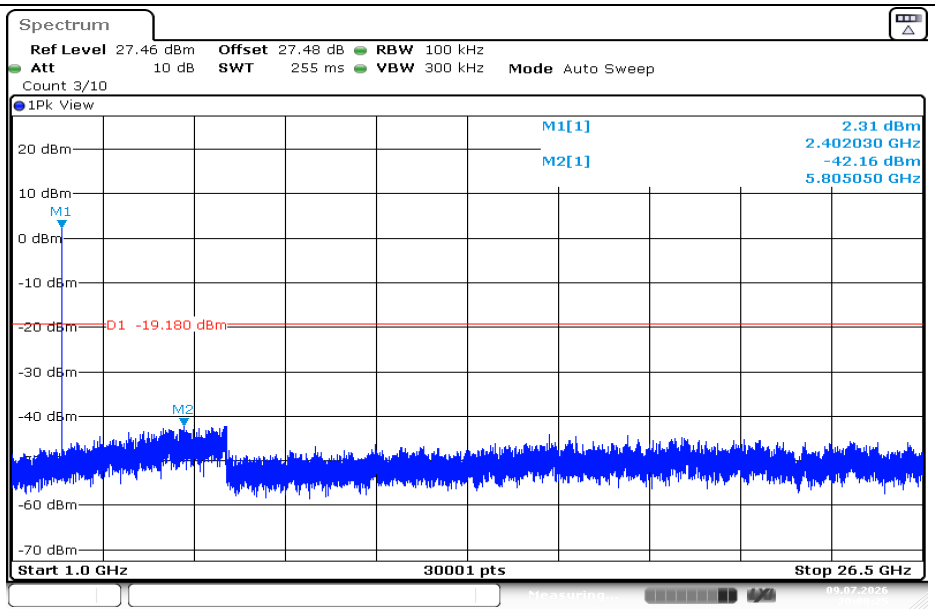
Conducted Spurious Emission



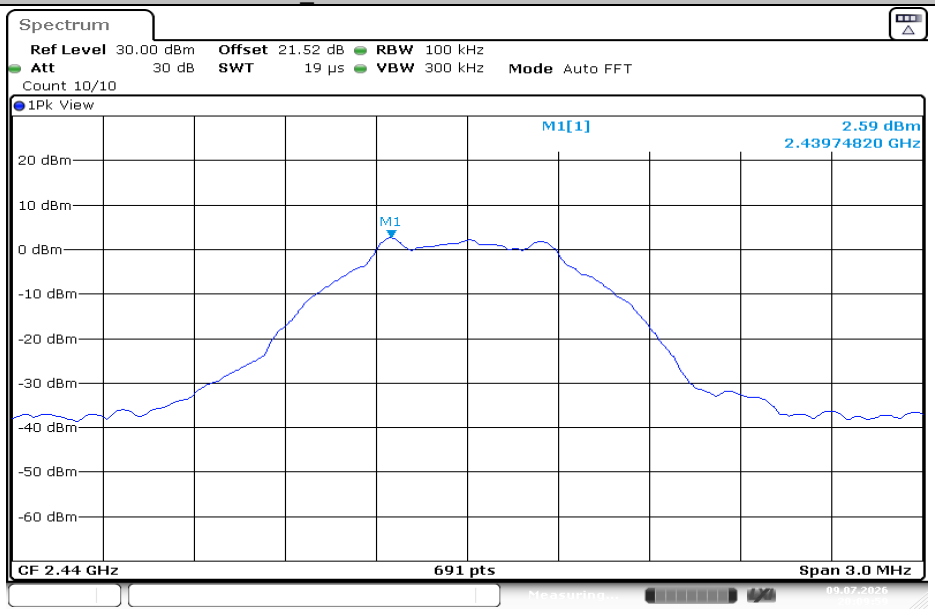
BLE_1M-Ant1-2402-0~Reference-PASS



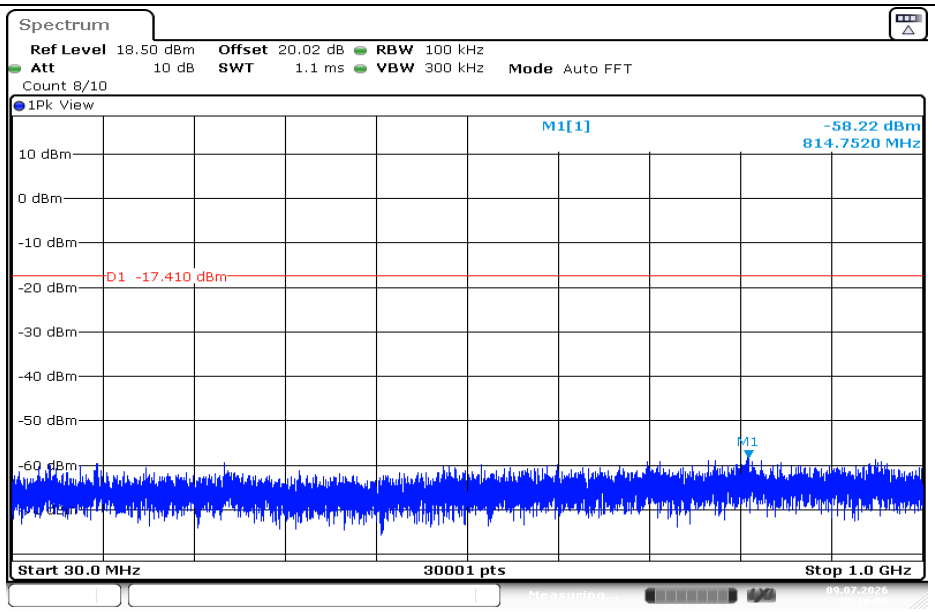
BLE_1M-Ant1-2402-30~1000-PASS



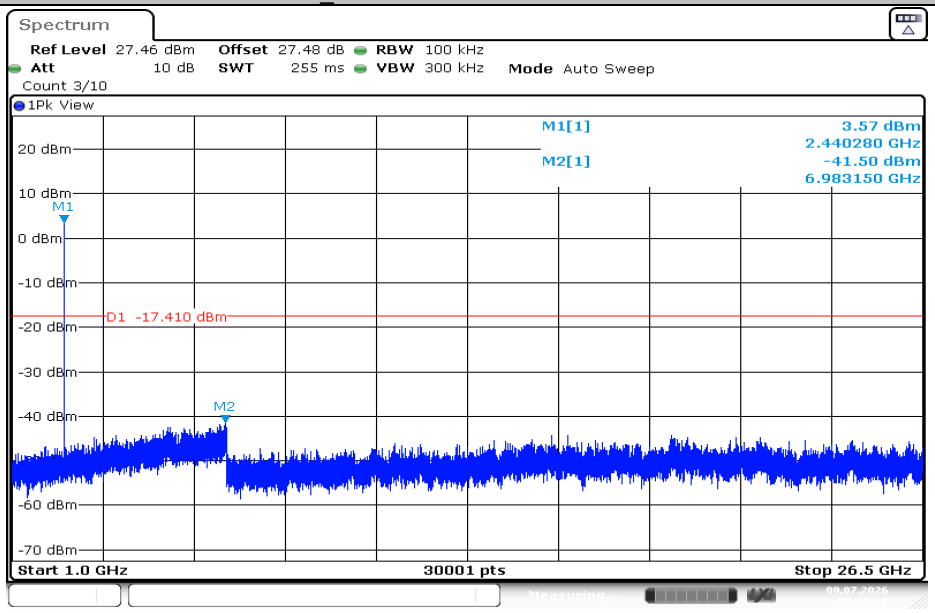
BLE_1M-Ant1-2402-1000~26500-PASS



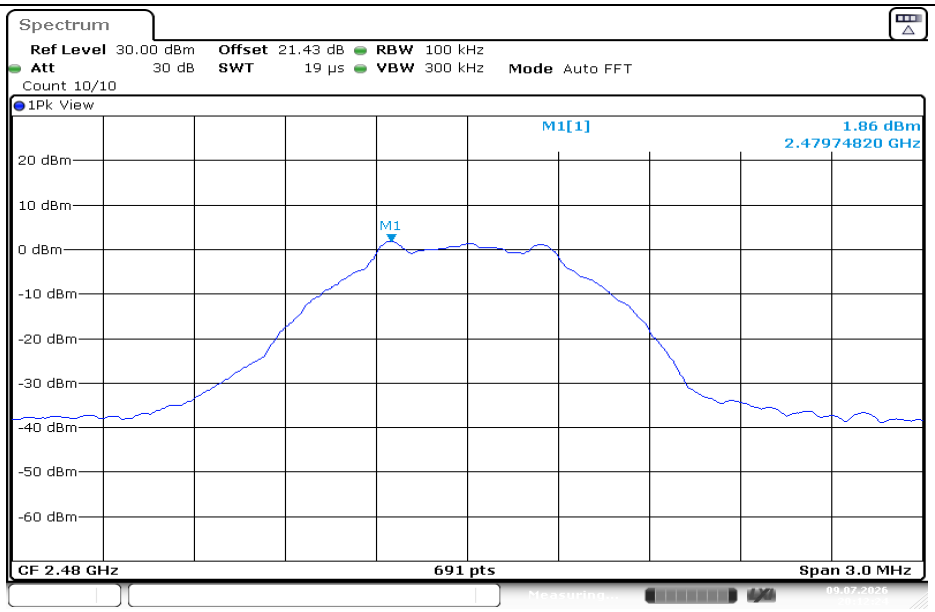
BLE_1M-Ant1-2440-0~Reference-PASS



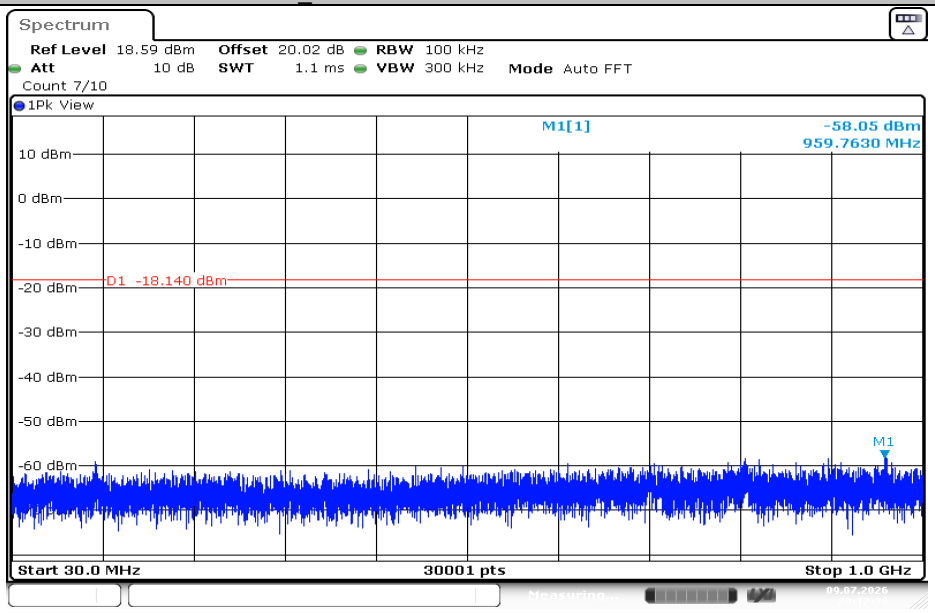
BLE_1M-Ant1-2440-30~1000-PASS



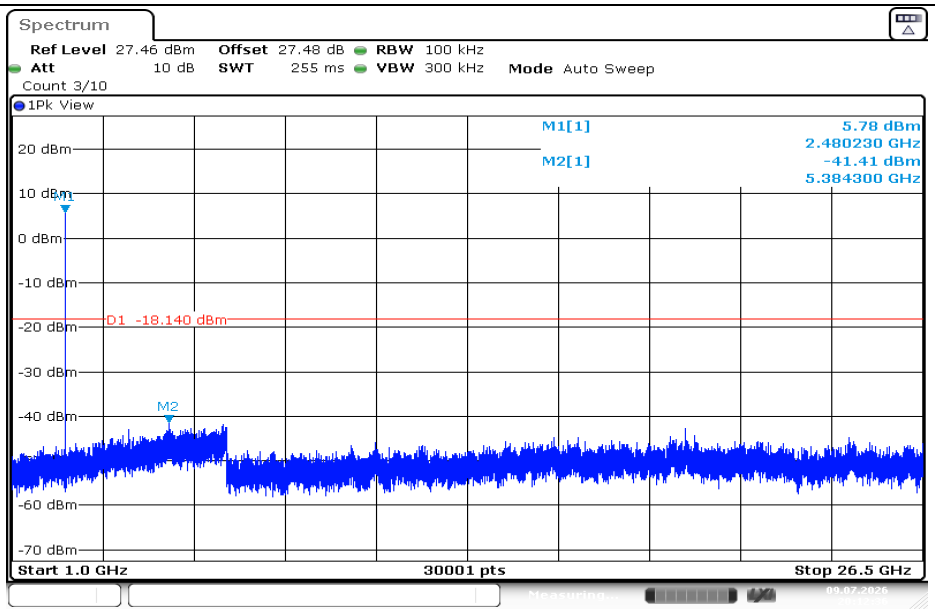
BLE_1M-Ant1-2440-1000~26500-PASS



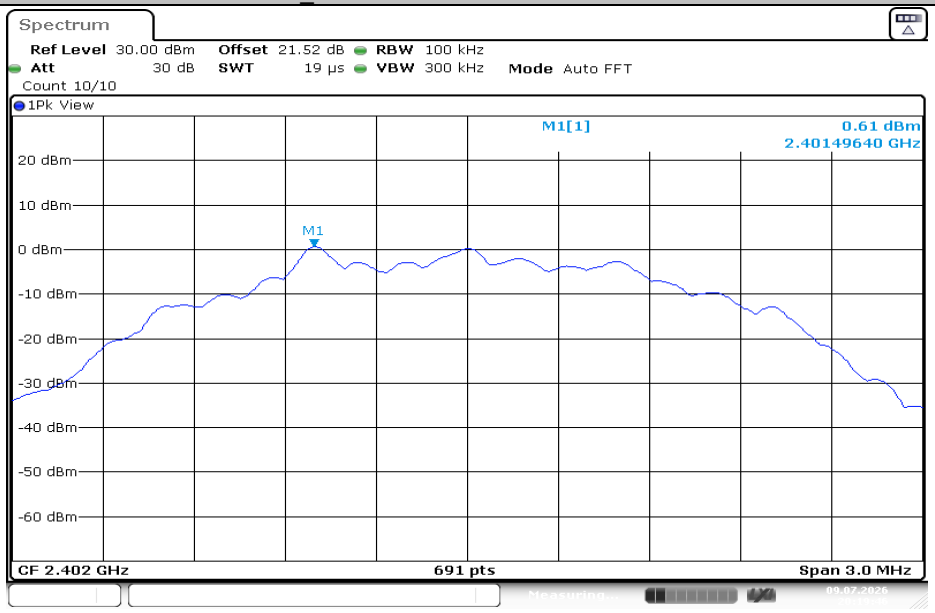
BLE_1M-Ant1-2480-0~Reference-PASS



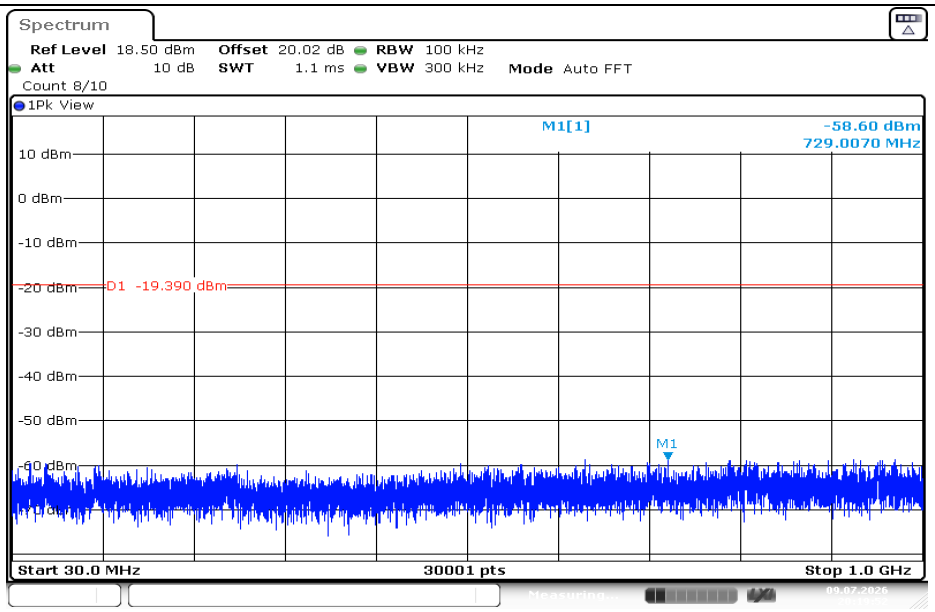
BLE_1M-Ant1-2480-30~1000-PASS



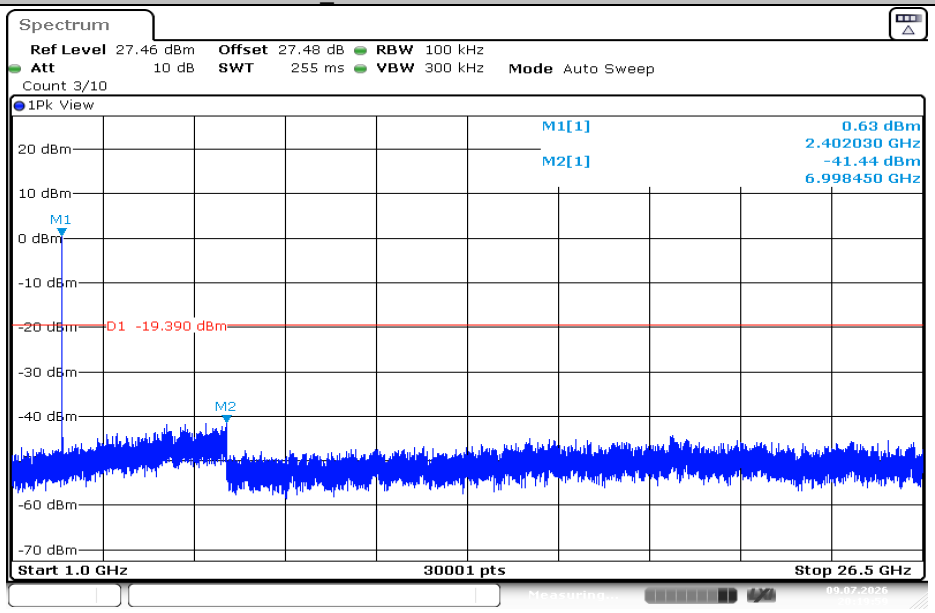
BLE_1M-Ant1-2480-1000~26500-PASS



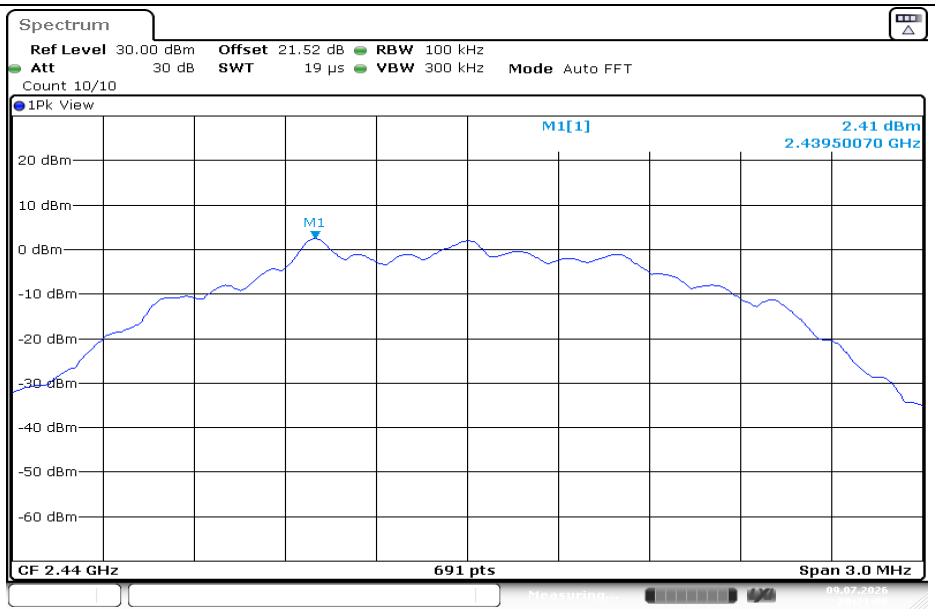
BLE_2M-Ant1-2402-0~Reference-PASS



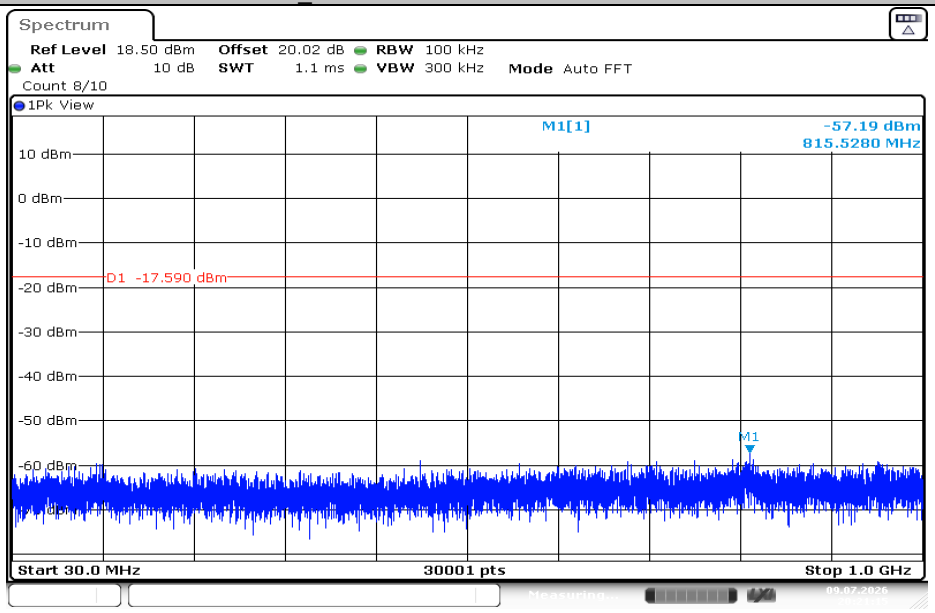
BLE_2M-Ant1-2402-30~1000-PASS



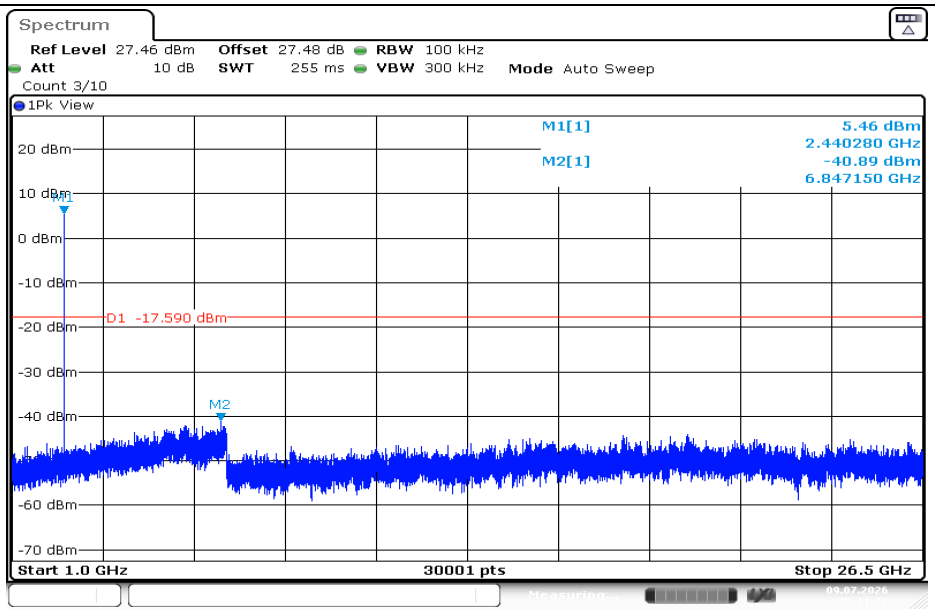
BLE_2M-Ant1-2402-1000~26500-PASS



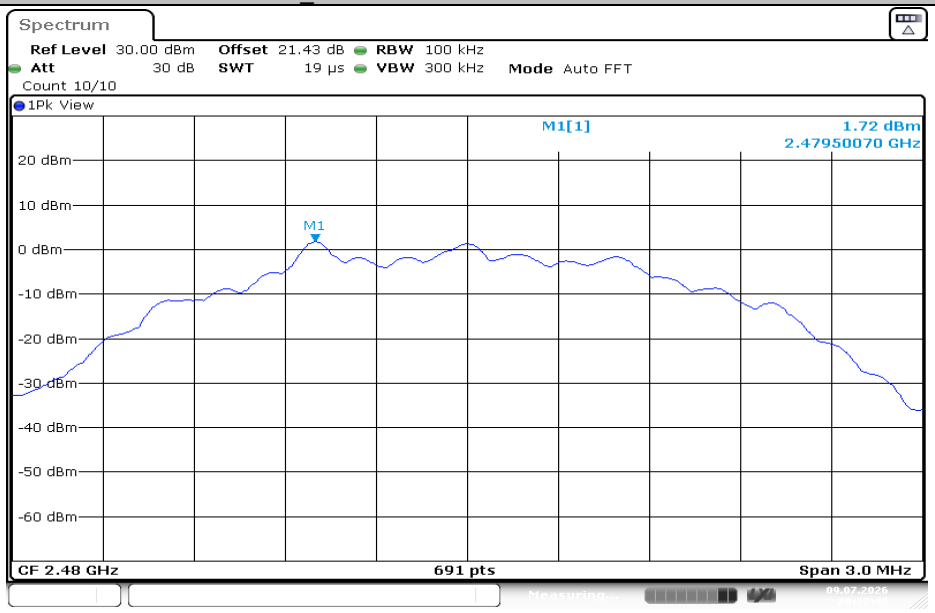
BLE_2M-Ant1-2440-0~Reference-PASS



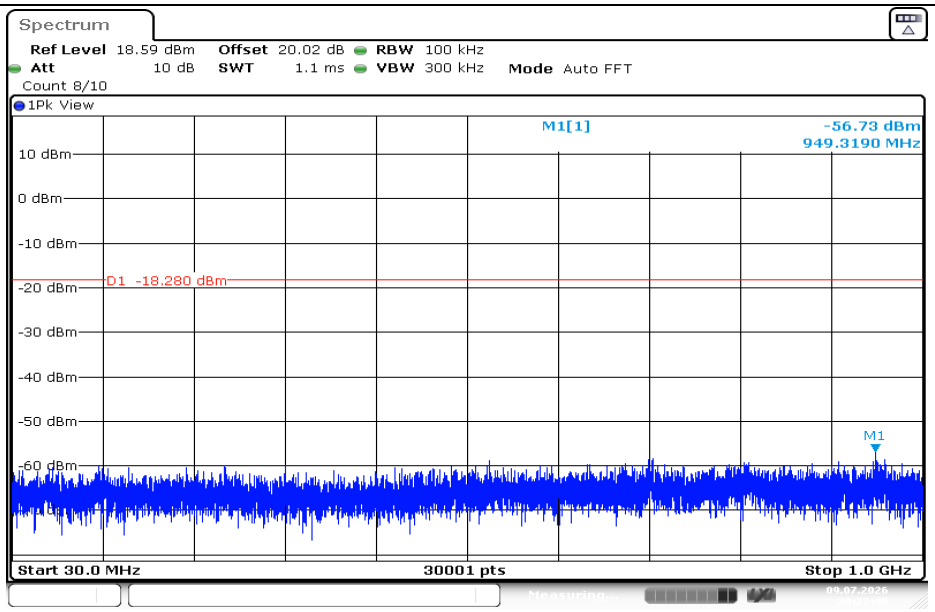
BLE_2M-Ant1-2440-30~1000-PASS



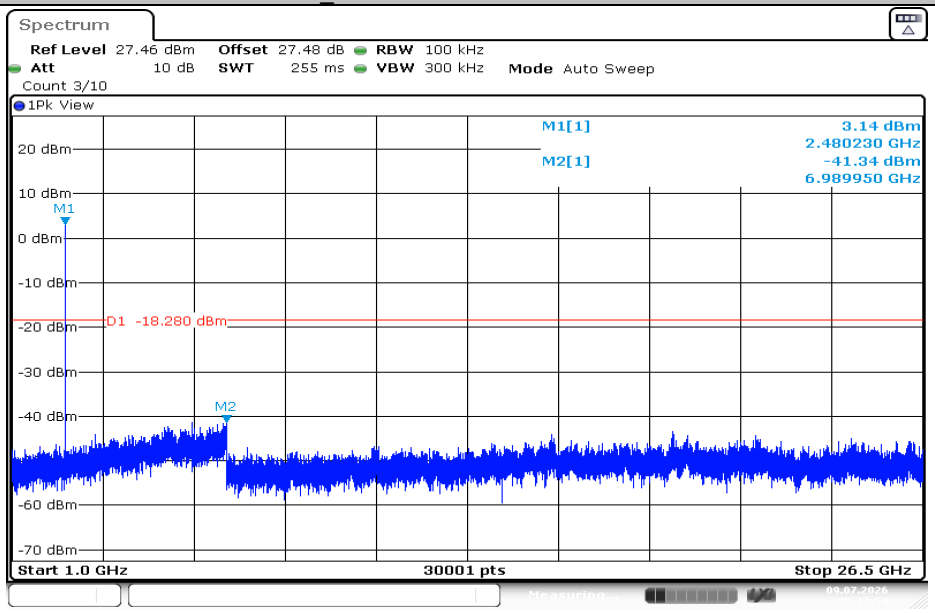
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS

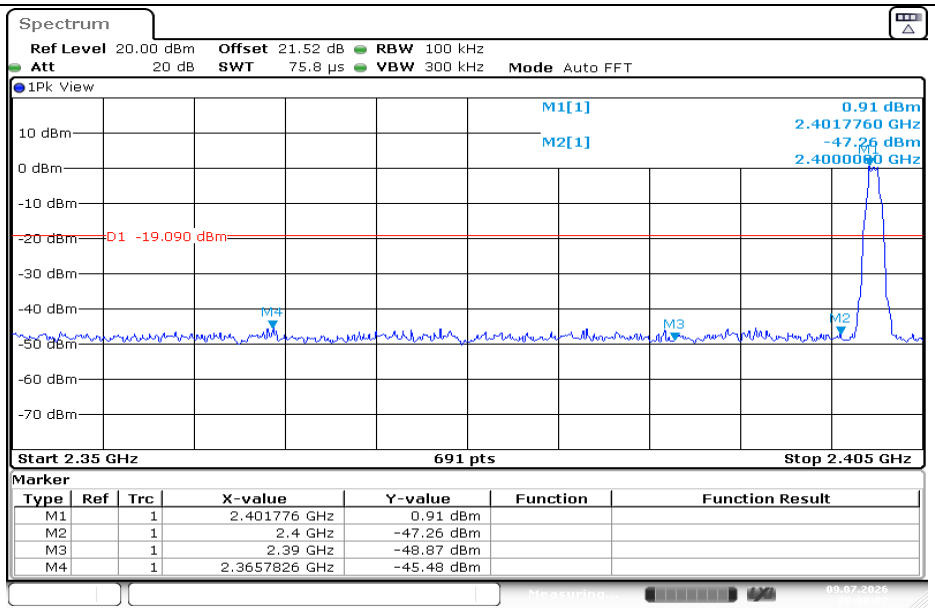


BLE_2M-Ant1-2480-30~1000-PASS

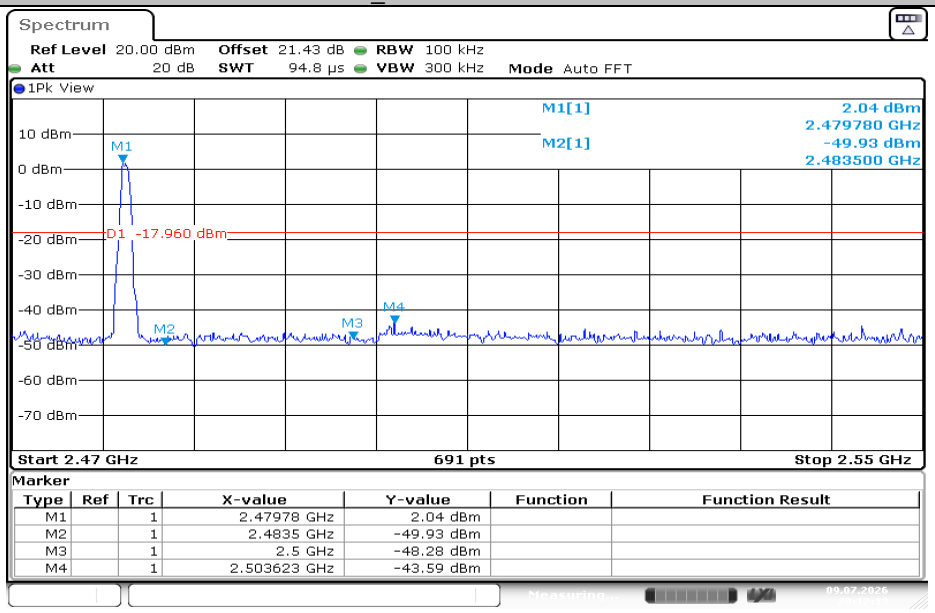


BLE_2M-Ant1-2480-1000~26500-PASS

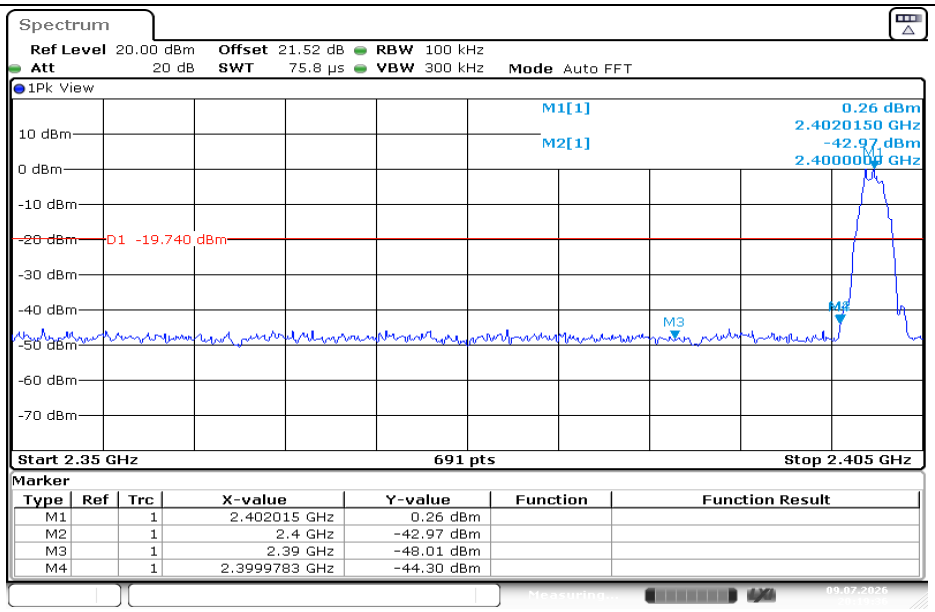
Band edge measurements



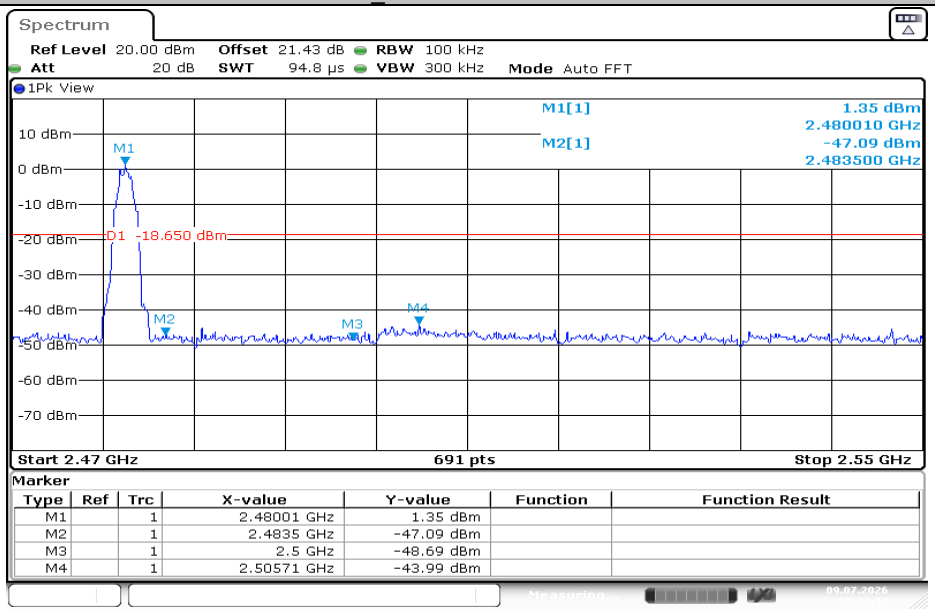
BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

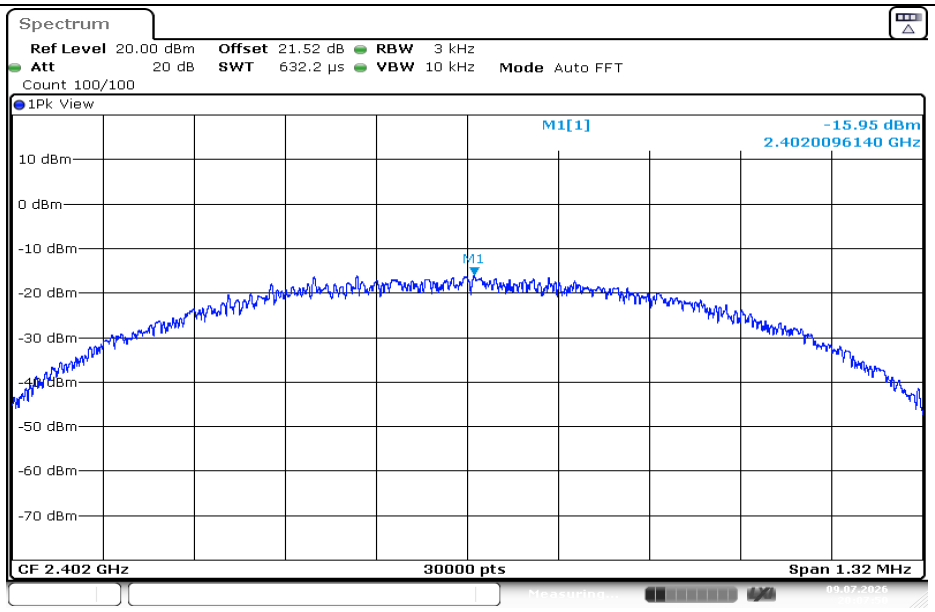


BLE_2M-Ant1-2480-PASS

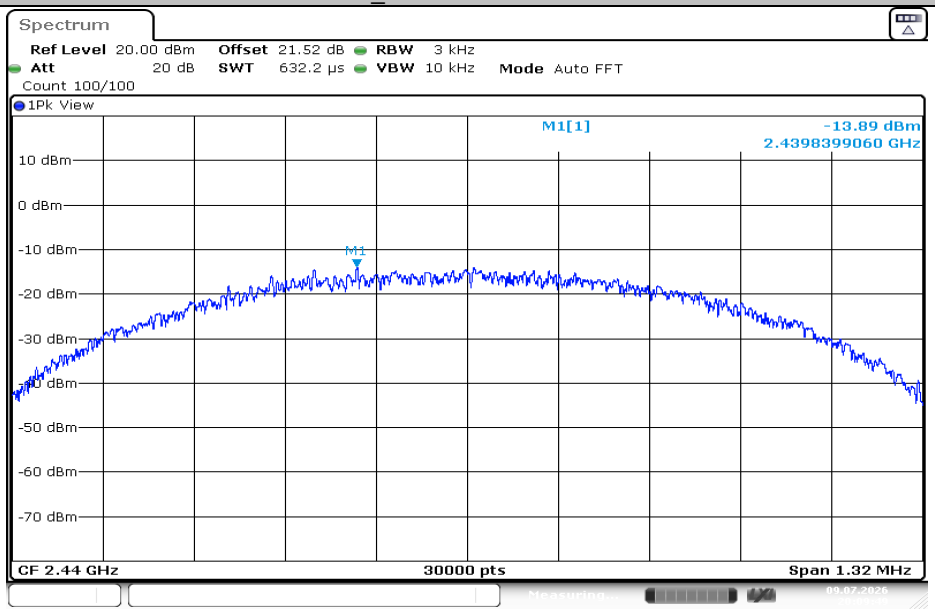
APPENDIX H POWER SPECTRAL DENSITY

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.95	≤8.00	PASS
BLE_1M	Ant1	2440	-13.89	≤8.00	PASS
BLE_1M	Ant1	2480	-14.53	≤8.00	PASS
BLE_2M	Ant1	2402	-18.81	≤8.00	PASS
BLE_2M	Ant1	2440	-17.10	≤8.00	PASS
BLE_2M	Ant1	2480	-17.67	≤8.00	PASS

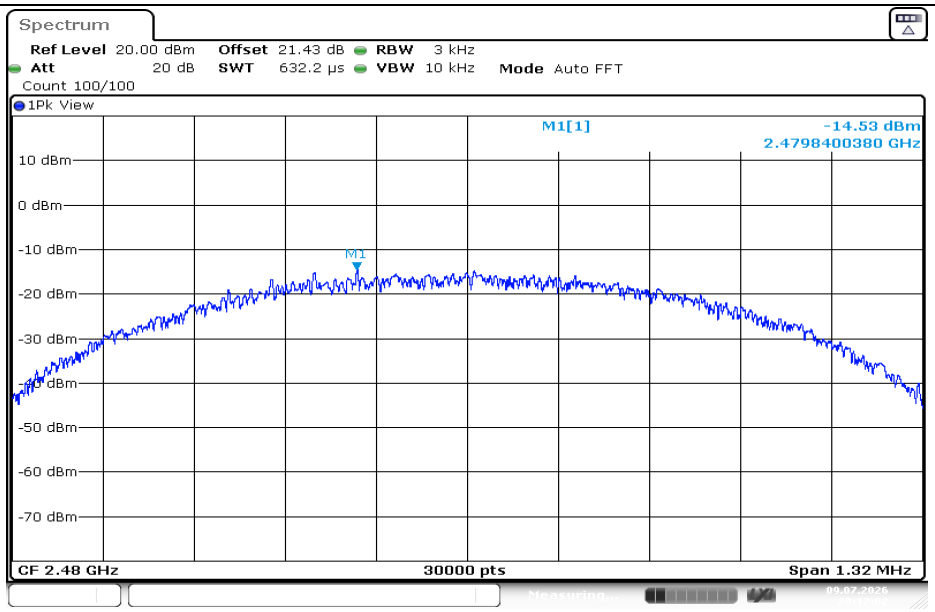
Test Graphs



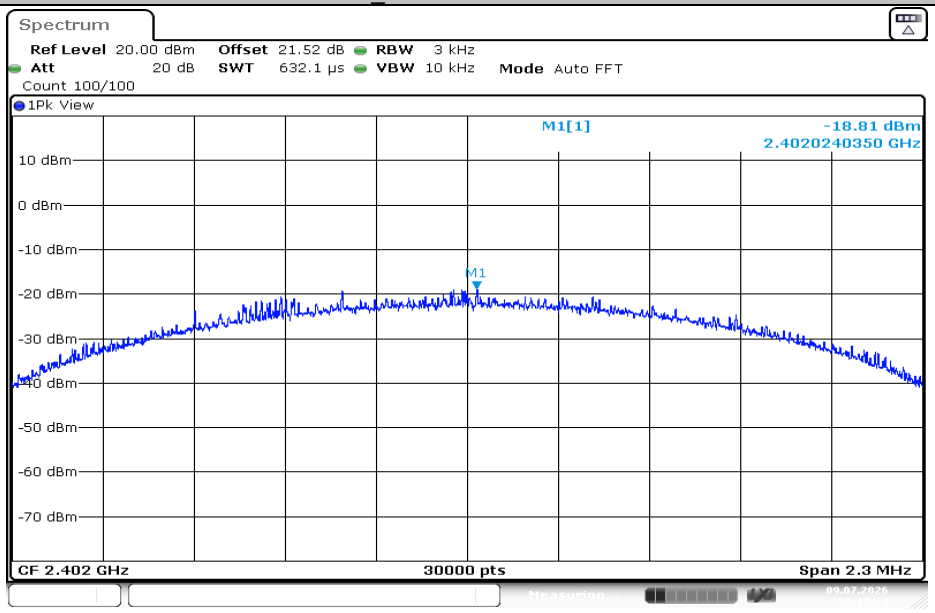
BLE_1M-Ant1-2402-PASS



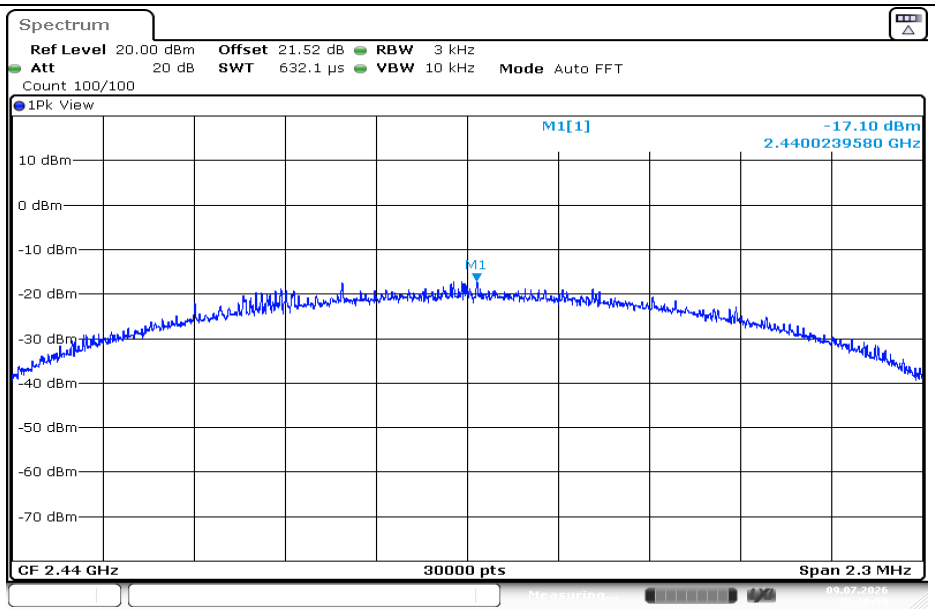
BLE_1M-Ant1-2440-PASS



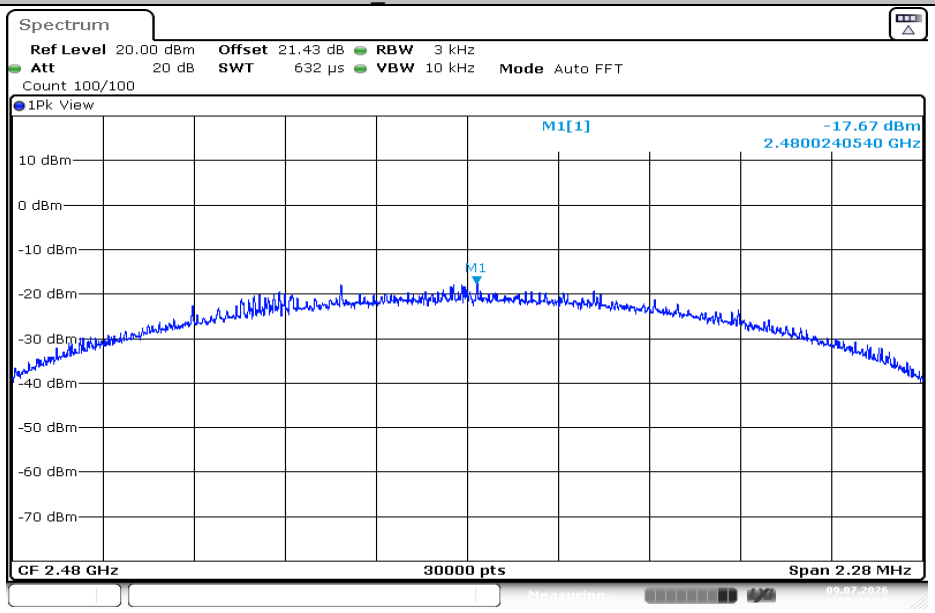
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).

2. The report is invalid without the signature of the approver.

3. The report is invalid if altered arbitrarily.

4. The report shall not be partially copied without the written approval of the unit.

5. The reported test results are only valid for the tested samples.

6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

End of Test Report