

Appendix A: Test Results of Bluetooth Low Energy

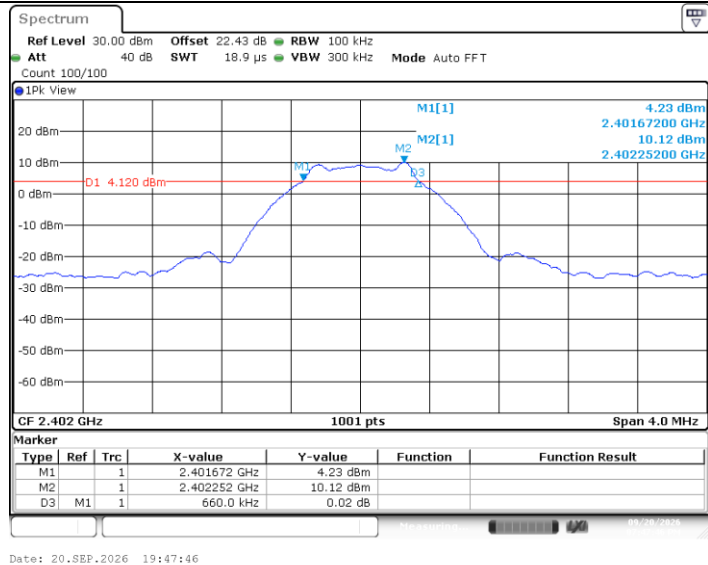
APPENDIX A: TEST RESULTS OF BLUETOOTH LOW ENERGY	1
APPENDIX A.1: TEST RESULTS OF 6dB BANDWIDTH	2
Test Result.....	2
Test Graphs.....	3
APPENDIX A.2: TEST RESULTS OF 99% BANDWIDTH.....	8
Test Result.....	8
Test Graphs.....	9
APPENDIX A.3: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	14
Test Result.....	14
Test Graphs.....	15
APPENDIX A.4: TEST RESULTS OF BAND EDGE MEASUREMENTS	20
Test Result.....	20
Test Graphs.....	21
APPENDIX A.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSION.....	24
Test Result.....	24
Test Graphs.....	25
APPENDIX A.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	38
30MHz - 1GHz	38
1GHz - 18GHz.....	39
APPENDIX A.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	52
APPENDIX A.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	68

Appendix A.1: Test Results of 6dB Bandwidth

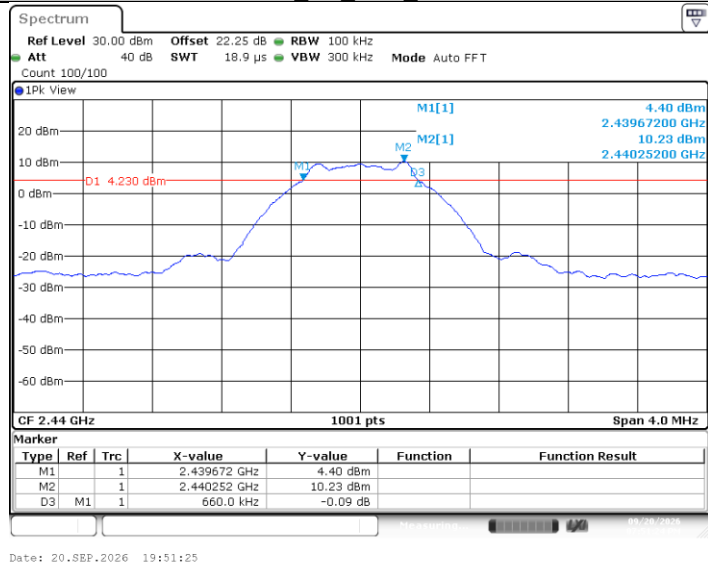
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.67	2402.33	0.5	PASS
		2440	0.66	2439.67	2440.33	0.5	PASS
		2480	0.66	2479.67	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.23	2401.36	2402.59	0.5	PASS
		2440	1.24	2439.35	2440.59	0.5	PASS
		2480	1.24	2479.35	2480.59	0.5	PASS
BLE_125K	Ant1	2402	0.68	2401.66	2402.34	0.5	PASS
		2440	0.68	2439.66	2440.34	0.5	PASS
		2480	0.68	2479.66	2480.34	0.5	PASS
BLE_500K	Ant1	2402	0.66	2401.68	2402.33	0.5	PASS
		2440	0.66	2439.68	2440.33	0.5	PASS
		2480	0.66	2479.68	2480.33	0.5	PASS

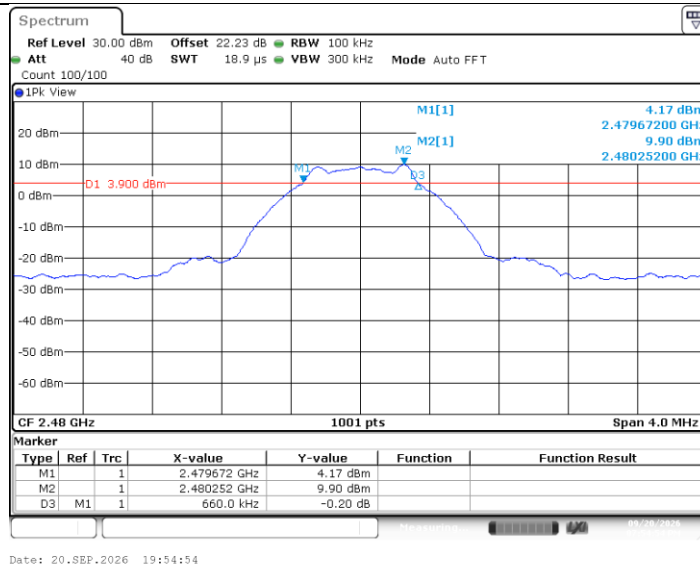
Test Graphs



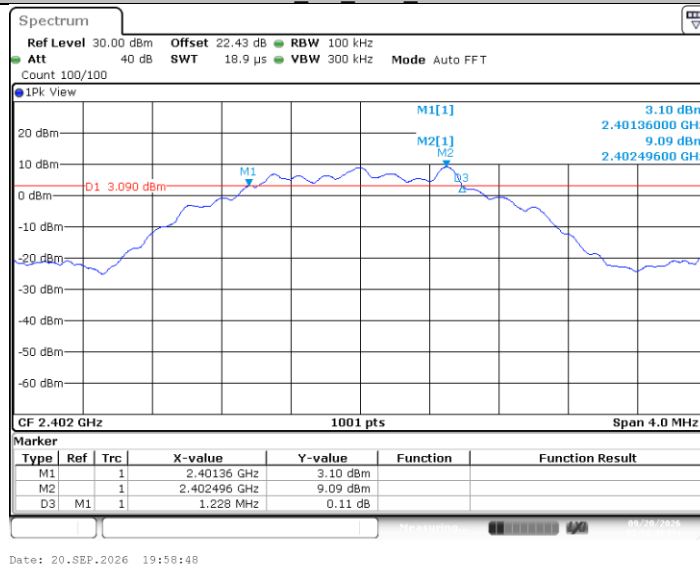
BLE_1M_Ant1_2402



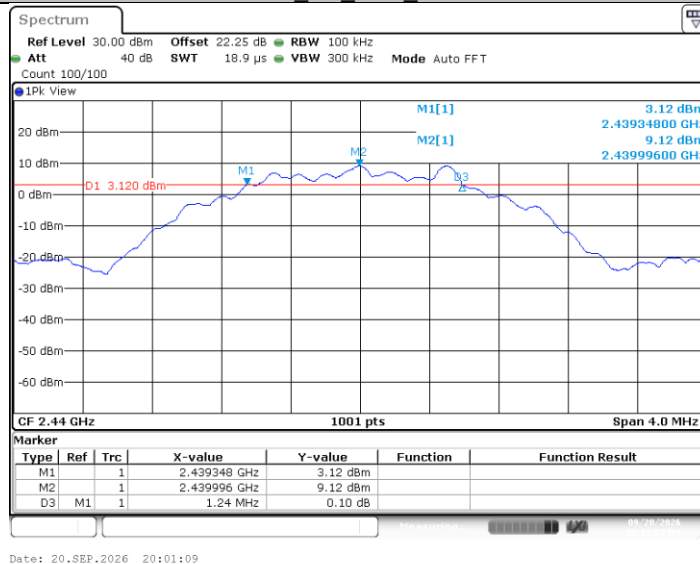
BLE_1M_Ant1_2440



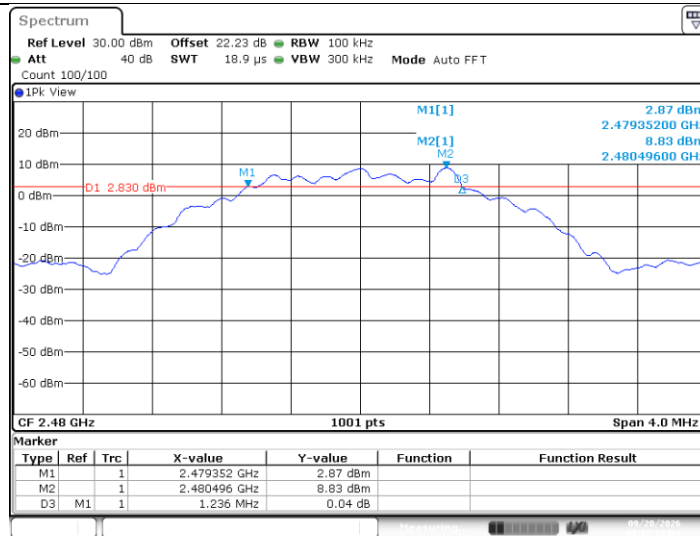
BLE 1M Ant1 2480



BLE 2M Ant1 2402

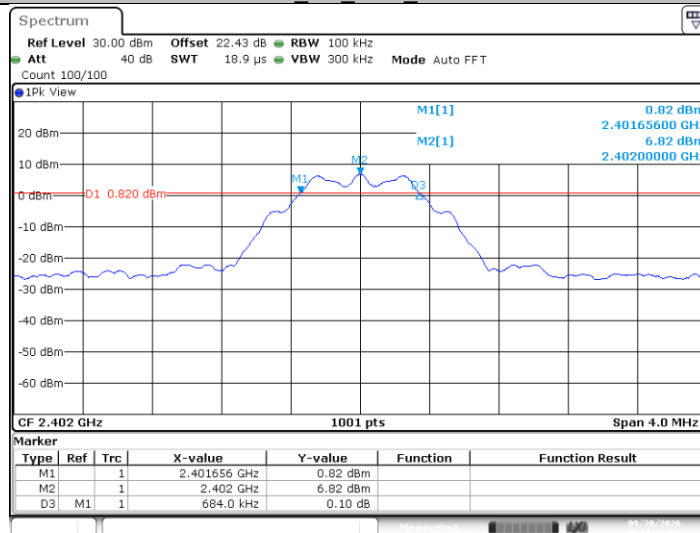


BLE 2M Ant1 2440



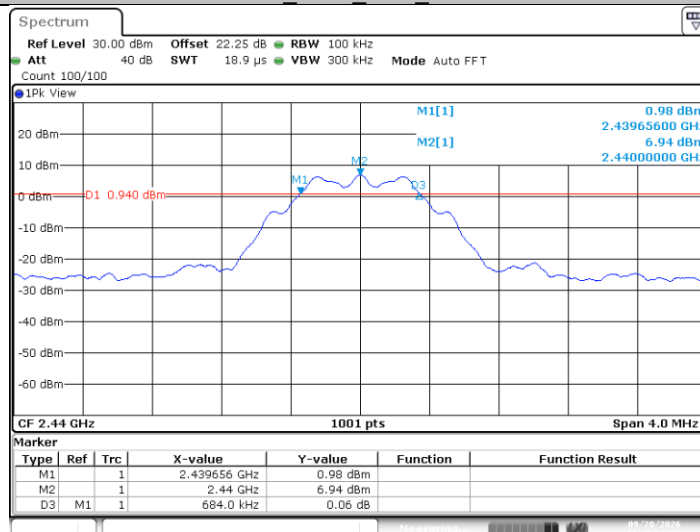
Date: 20.SEP.2026 20:07:10

BLE_2M_Ant1_2480



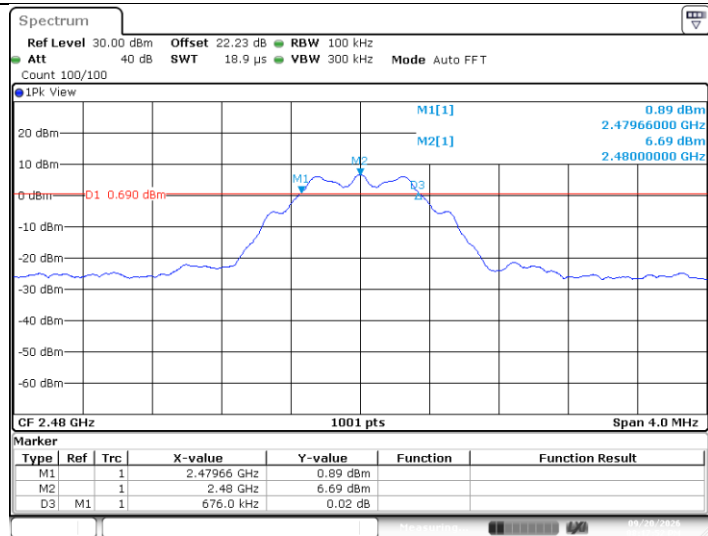
Date: 20.SEP.2026 20:11:46

BLE_125K_Ant1_2402

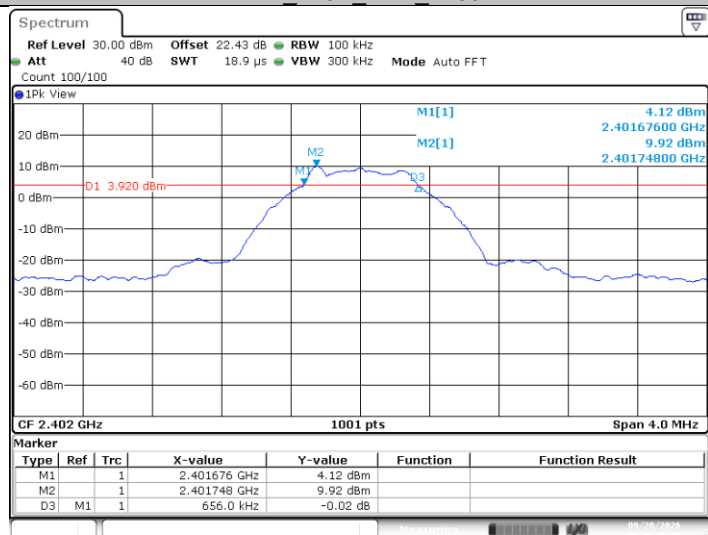


Date: 20.SEP.2026 20:15:06

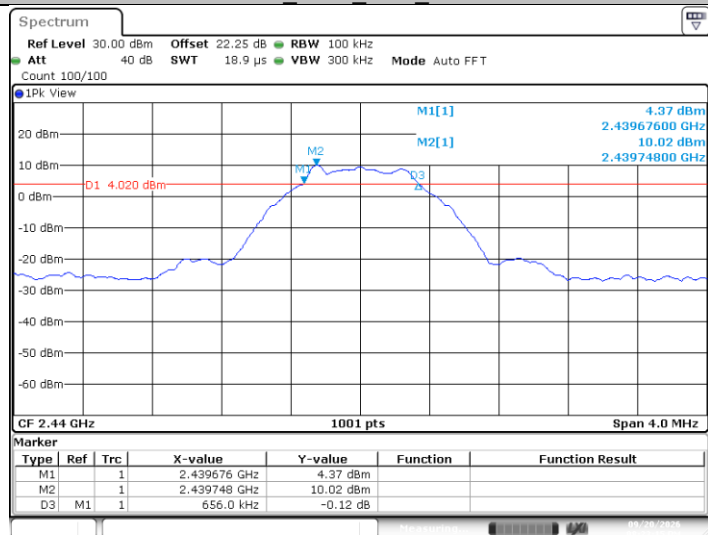
BLE_125K_Ant1_2440



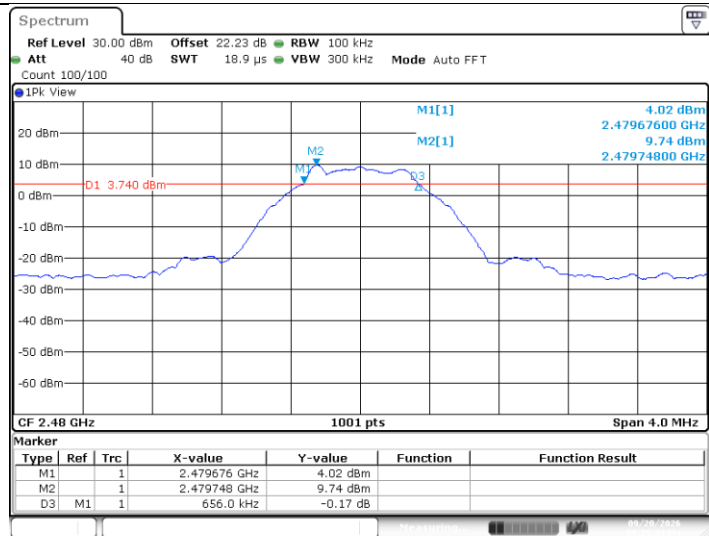
BLE_125K Ant1_2480



BLE_500K Ant1_2402



BLE_500K Ant1_2440



Date: 20.SEP.2026 20:25:43

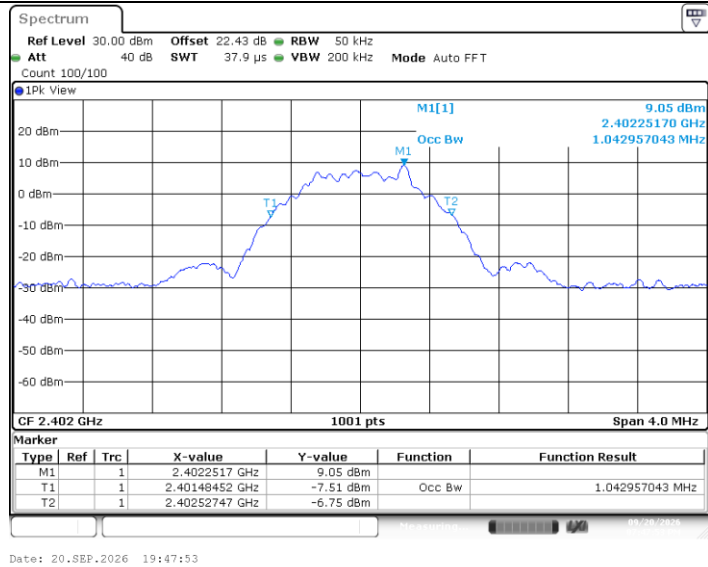
BLE_500K_Ant1_2480

Appendix A.2: Test Results of 99% Bandwidth

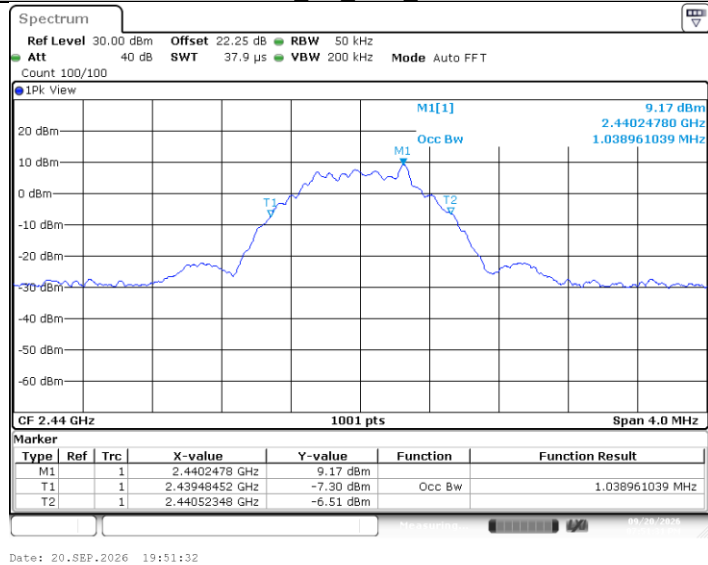
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0430	2401.4845	2402.5275	---	---
		2440	1.0390	2439.4845	2440.5235	---	---
		2480	1.0430	2479.4805	2480.5235	---	---
BLE_2M	Ant1	2402	2.0779	2400.9770	2403.0549	---	---
		2440	2.0779	2438.9770	2441.0549	---	---
		2480	2.0819	2478.9730	2481.0549	---	---
BLE_125K	Ant1	2402	1.0909	2401.4525	2402.5435	---	---
		2440	1.0909	2439.4525	2440.5435	---	---
		2480	1.0949	2479.4486	2480.5435	---	---
BLE_500K	Ant1	2402	1.0390	2401.4805	2402.5195	---	---
		2440	1.0390	2439.4805	2440.5195	---	---
		2480	1.0390	2479.4805	2480.5195	---	---

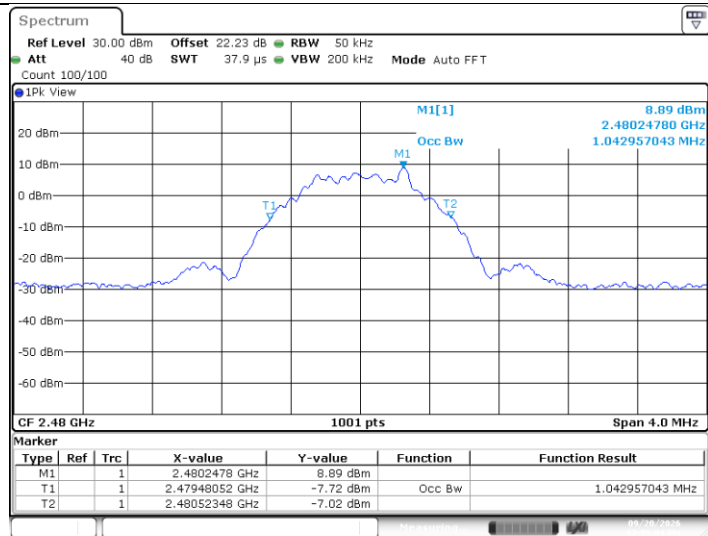
Test Graphs



BLE_1M_Ant1_2402

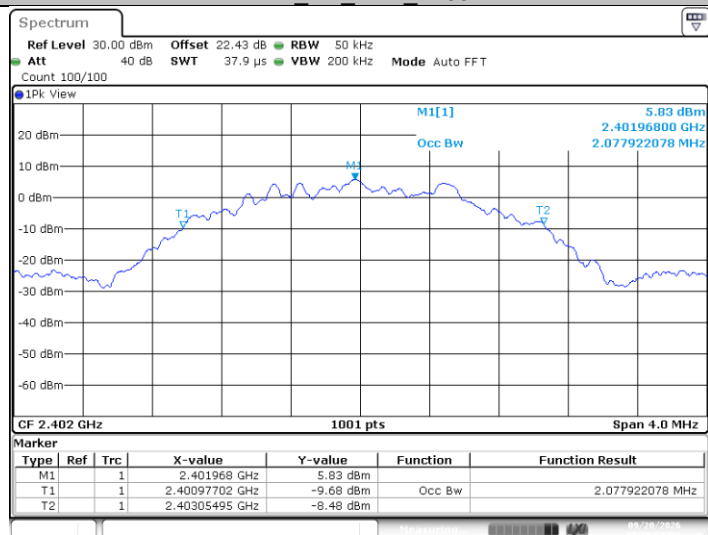


BLE_1M_Ant1_2440



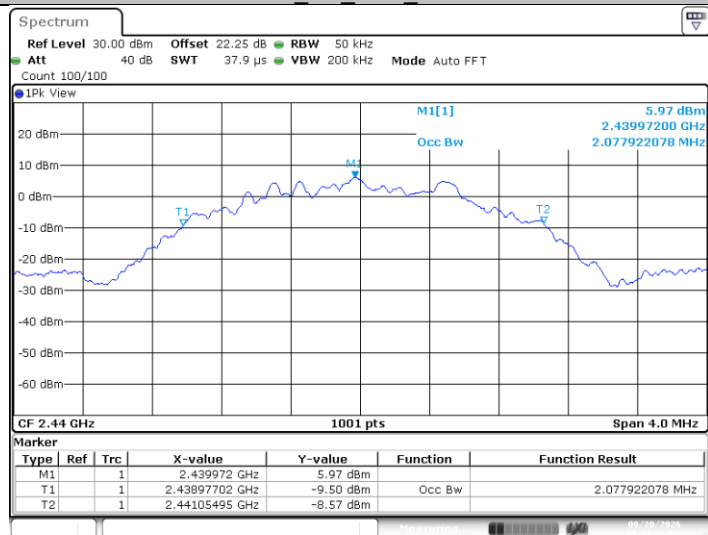
Date: 20.SEP.2026 19:55:01

BLE 1M Ant1 2480



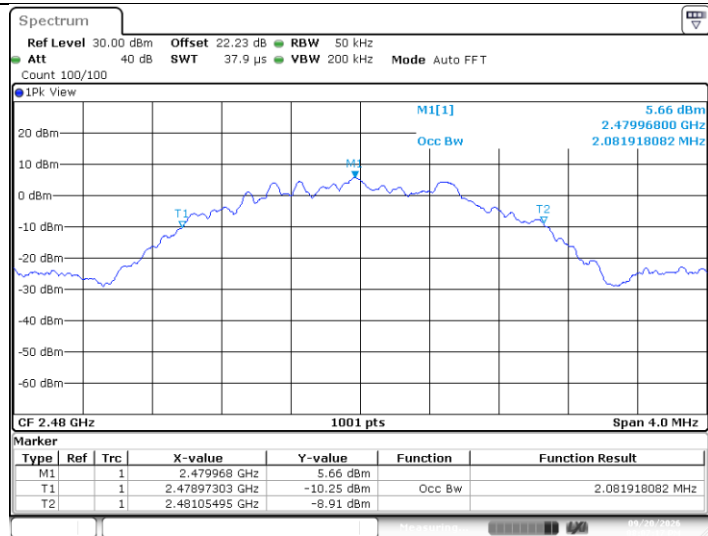
Date: 20.SEP.2026 19:58:55

BLE 2M Ant1 2402



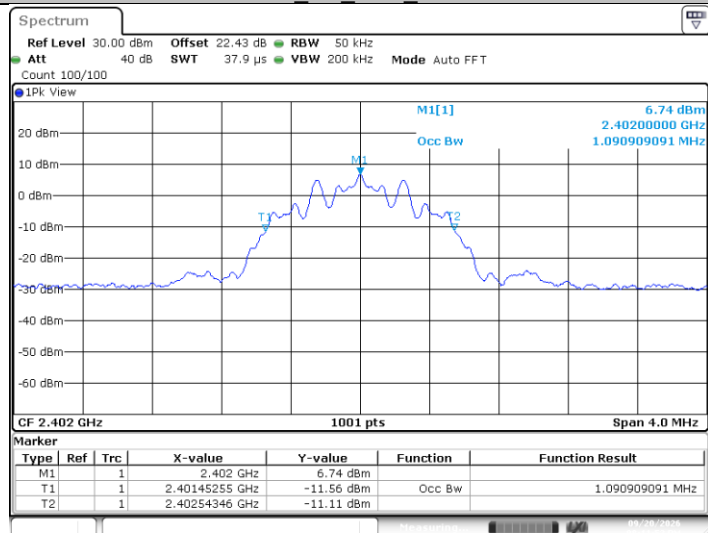
Date: 20.SEP.2026 20:01:16

BLE 2M Ant1 2440



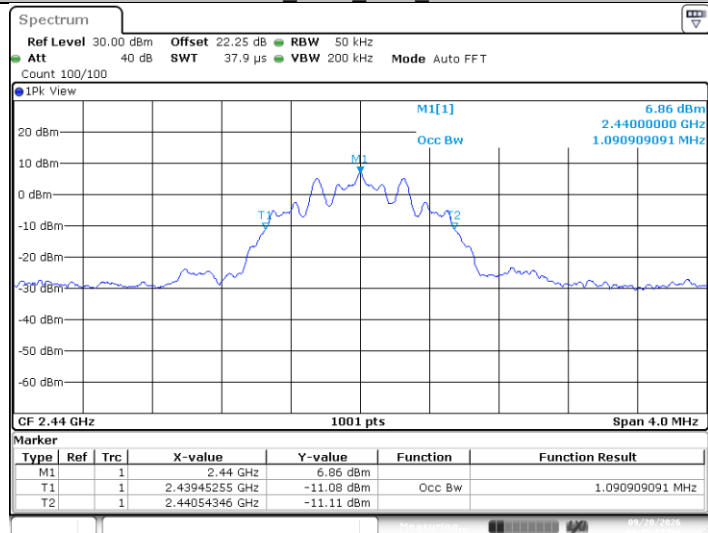
Date: 20.SEP.2026 20:07:17

BLE 2M Ant1 2480



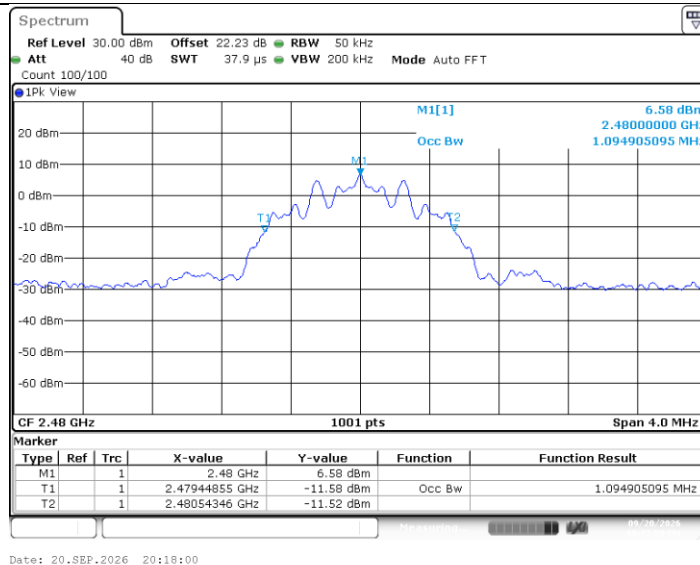
Date: 20.SEP.2026 20:11:53

BLE 125K Ant1 2402

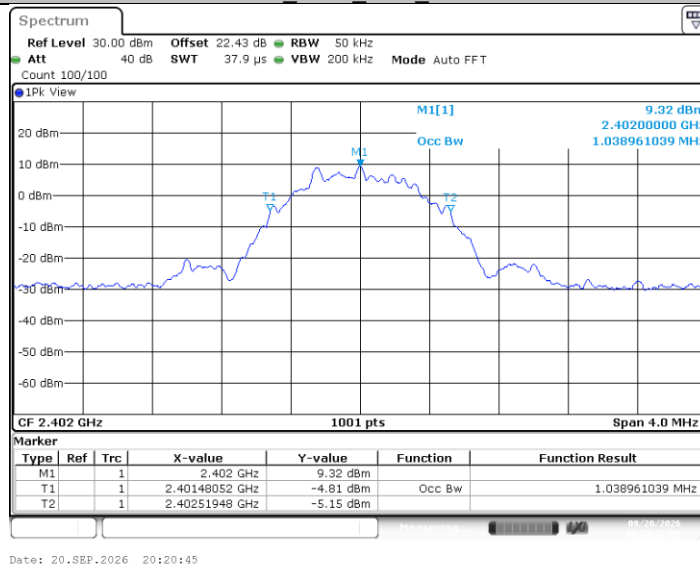


Date: 20.SEP.2026 20:15:13

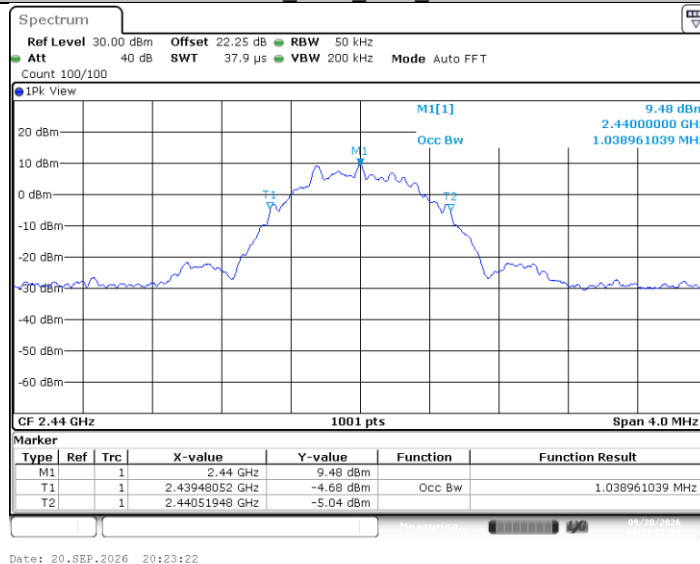
BLE 125K Ant1 2440



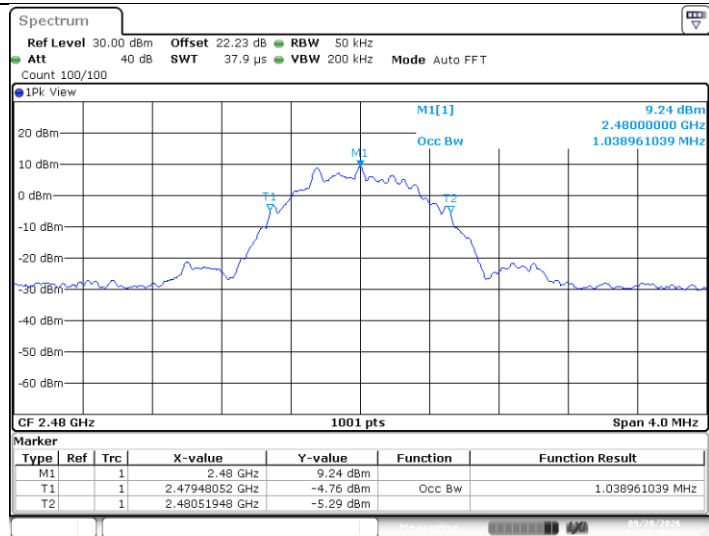
BLE_125K Ant1_2480



BLE_500K Ant1_2402



BLE_500K Ant1_2440



Date: 20.SEP.2026 20:25:50

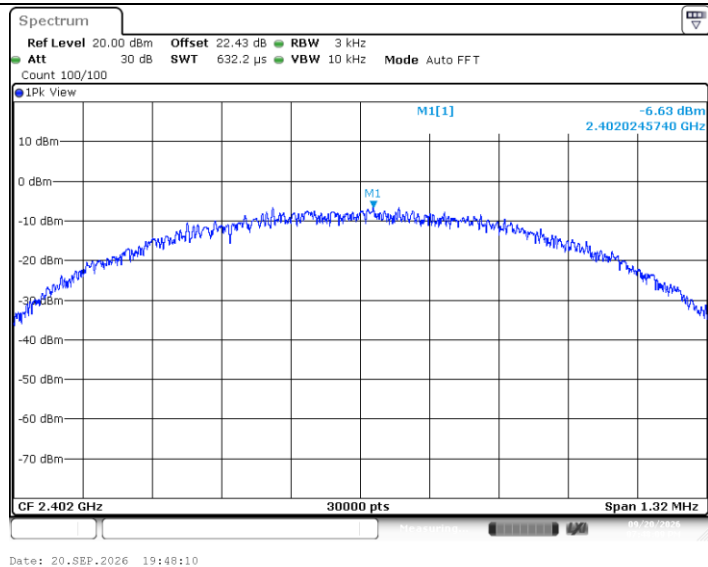
BLE_500K_Ant1_2480

Appendix A.3: Test Results of Conducted Power Spectral Density

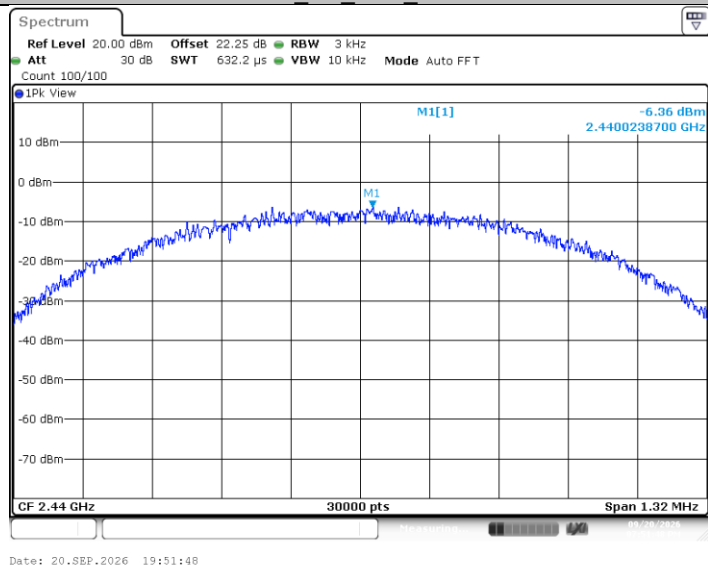
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.63	≤8.00	PASS
		2440	-6.36	≤8.00	PASS
		2480	-6.76	≤8.00	PASS
BLE_2M	Ant1	2402	-9.41	≤8.00	PASS
		2440	-9.14	≤8.00	PASS
		2480	-9.51	≤8.00	PASS
BLE_125K	Ant1	2402	3.77	≤8.00	PASS
		2440	4.00	≤8.00	PASS
		2480	3.62	≤8.00	PASS
BLE_500K	Ant1	2402	3.55	≤8.00	PASS
		2440	3.83	≤8.00	PASS
		2480	3.45	≤8.00	PASS

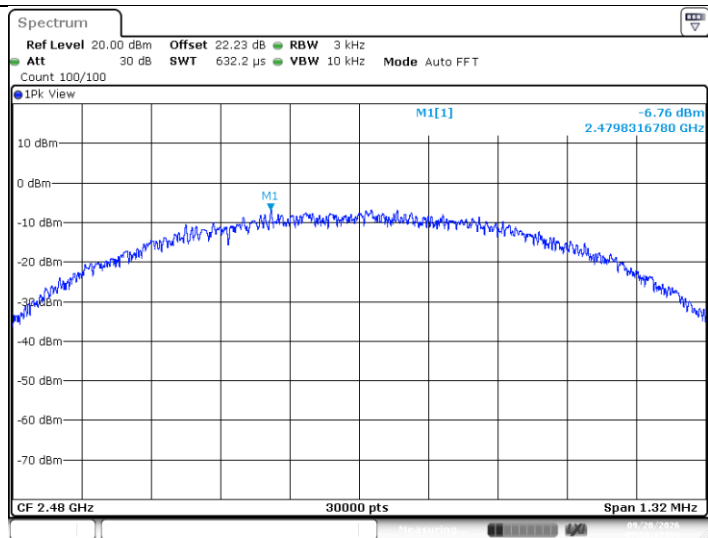
Test Graphs



BLE_1M_Ant1_2402

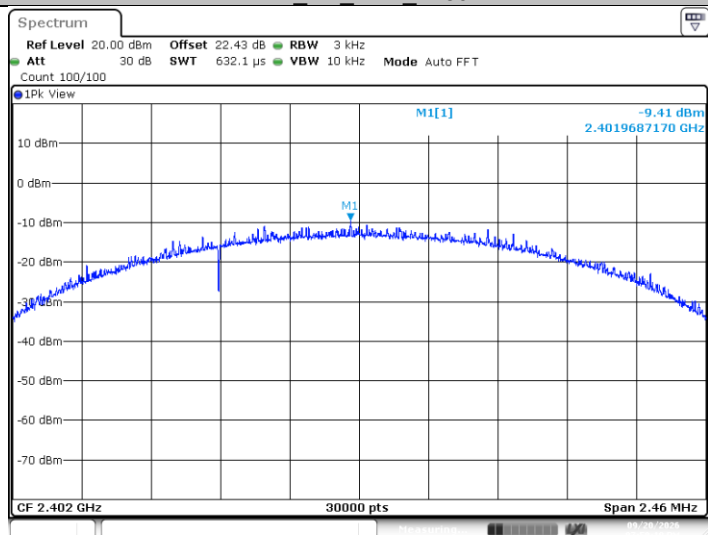


BLE_1M_Ant1_2440



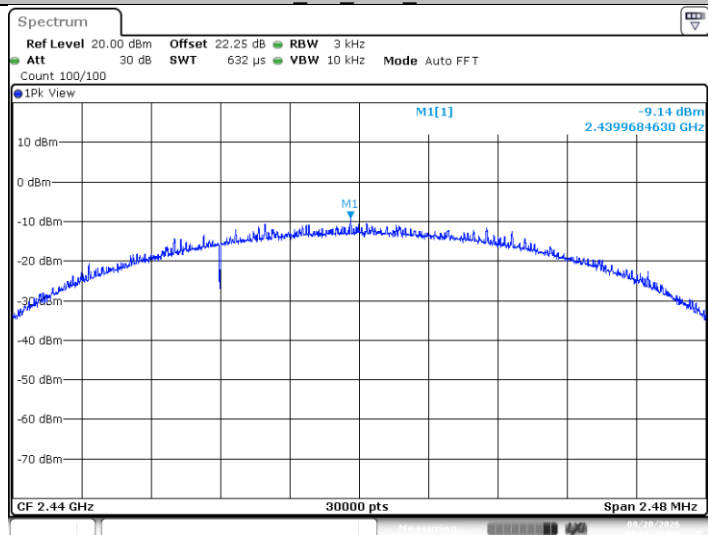
Date: 20-SEP-2026 19:55:17

BLE	1M	Ant1	2480
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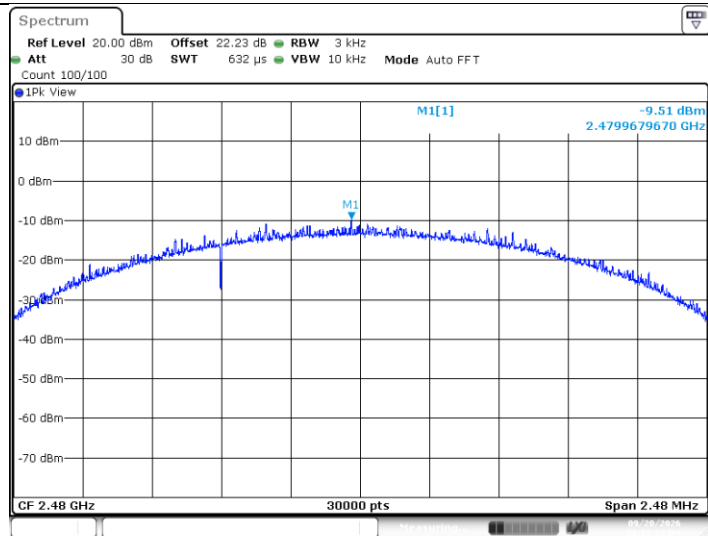
Date: 20-SEP-2026 19:59:11

BLE 2M Ant1 2402



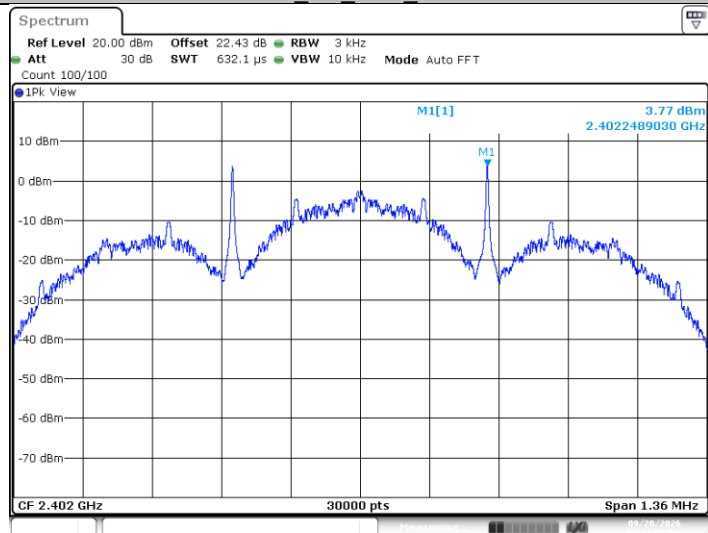
Date: 20-SEP-2026 20:01:33

BLE	2M	Ant1	2440
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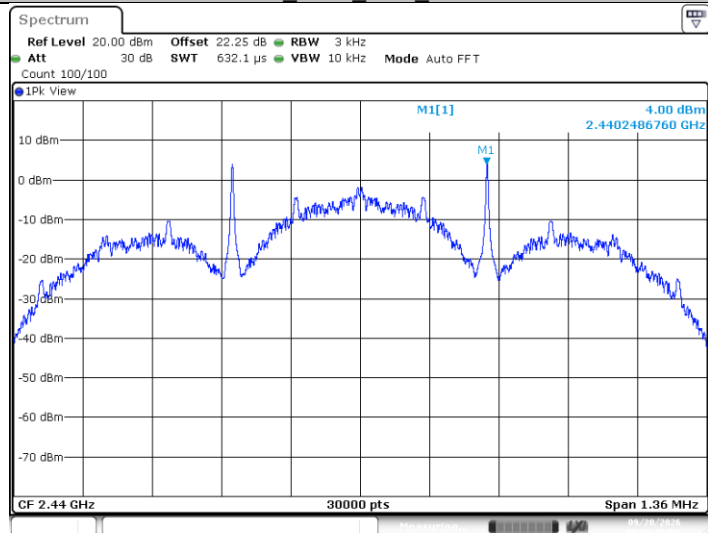
Date: 20.SEP.2026 20:07:34

BLE 2M Ant1_2480



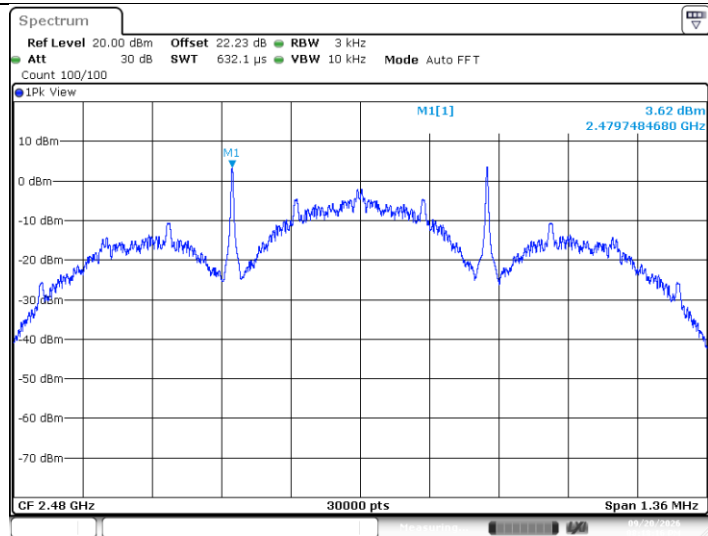
Date: 20.SEP.2026 20:12:09

BLE 125K Ant1_2402

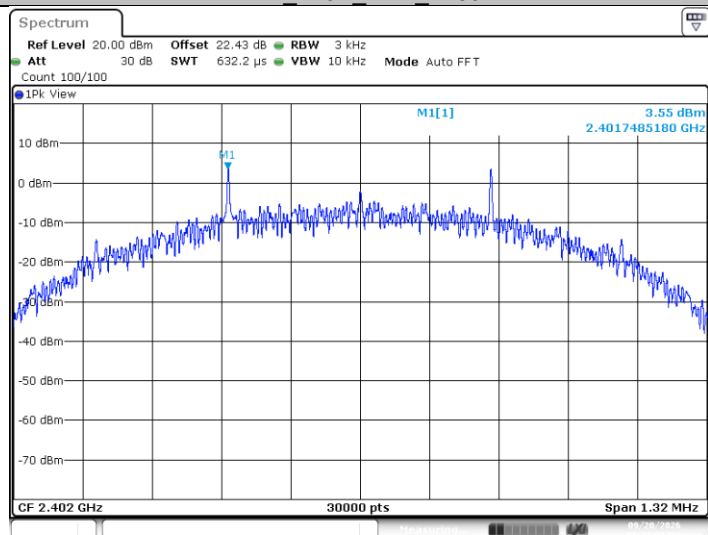


Date: 20.SEP.2026 20:15:29

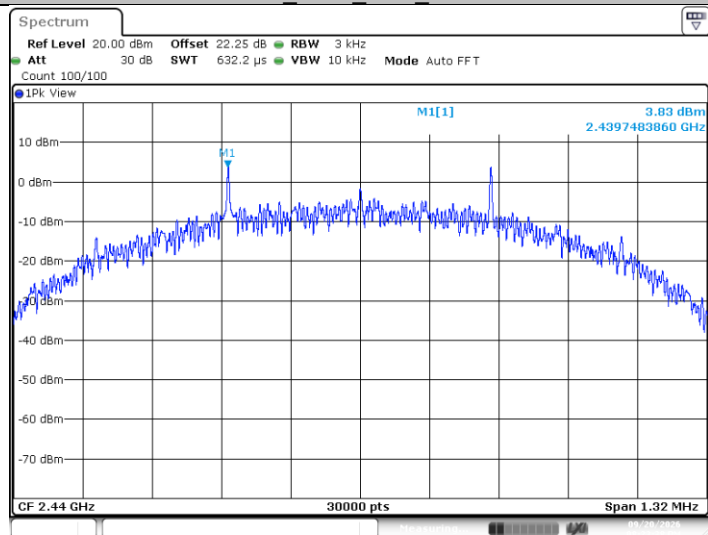
BLE 125K Ant1_2440



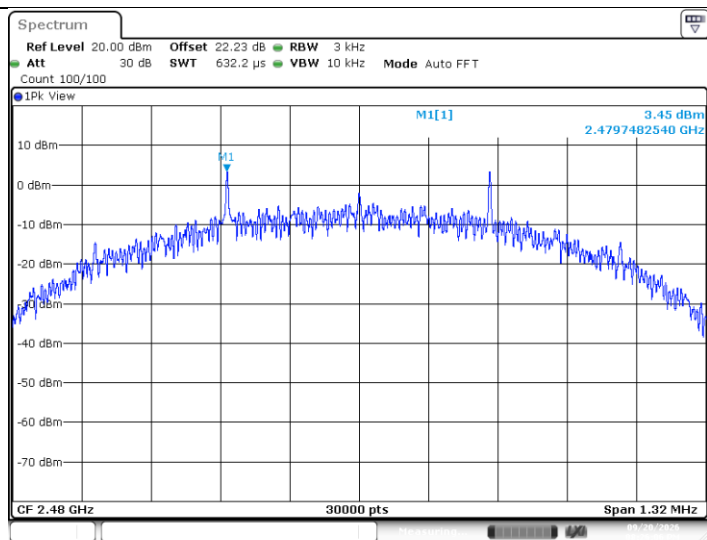
BLE_125K_Ant1_2480



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



Date: 20.SEP.2026 20:26:06

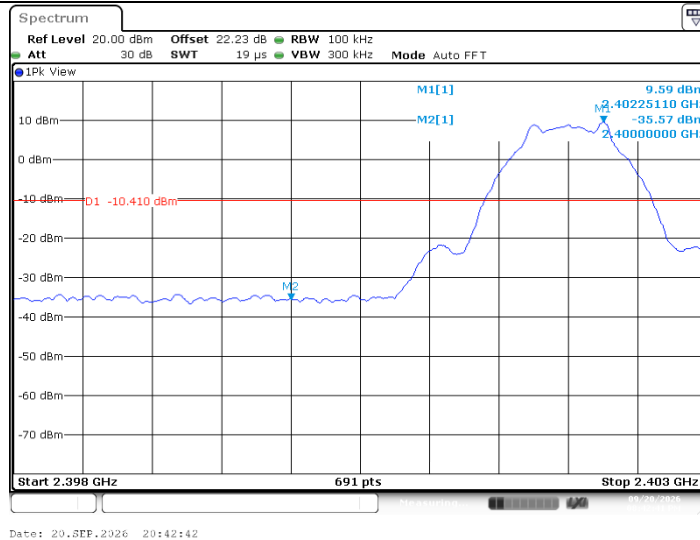
BLE_500K_Ant1_2480

Appendix A.4: Test Results of Band Edge Measurements

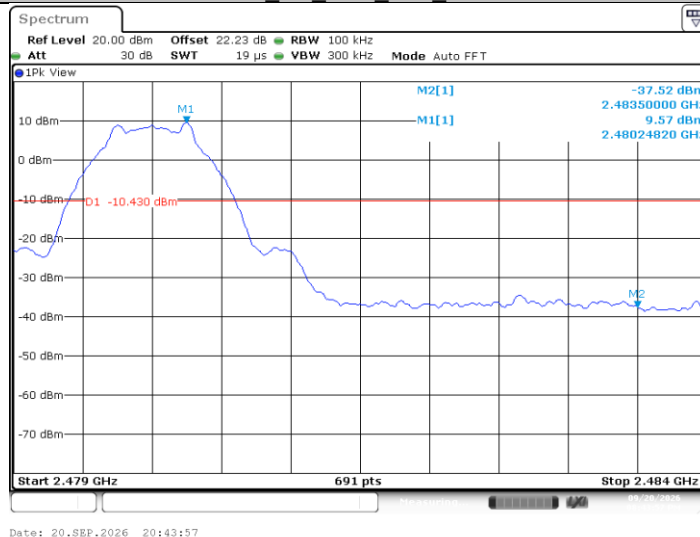
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.59	-35.57	≤-10.41	PASS
		High	2480	9.57	-37.52	≤-10.43	PASS
BLE_2M	Ant1	Low	2402	8.46	-23.76	≤-11.46	PASS
		High	2480	8.71	-35.06	≤-11.29	PASS
BLE_125K	Ant1	Low	2402	6.22	-36.24	≤-13.78	PASS
		High	2480	6.24	-36.85	≤-13.76	PASS
BLE_500K	Ant1	Low	2402	9.18	-36.04	≤-10.82	PASS
		High	2480	9.35	-35.73	≤-10.65	PASS

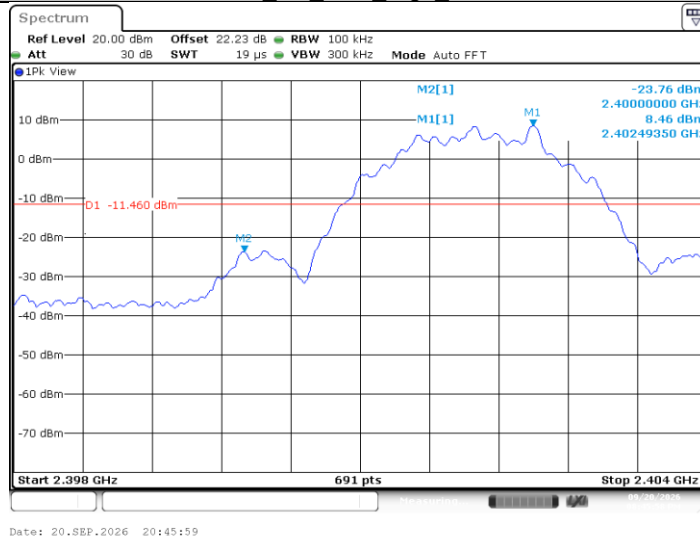
Test Graphs



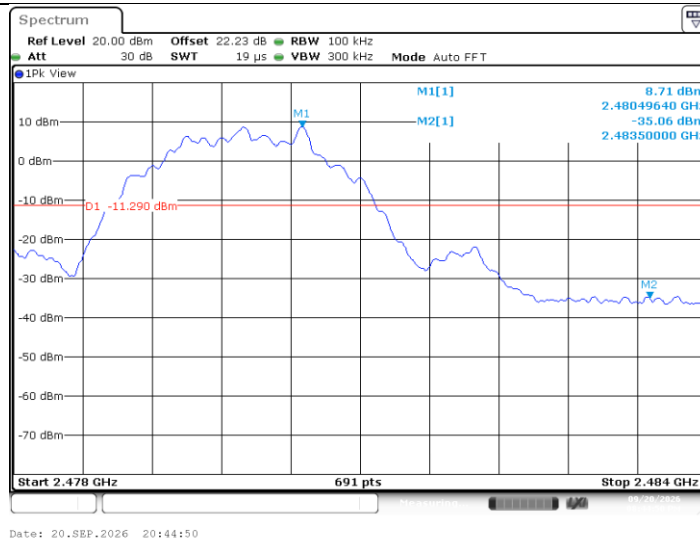
BLE 1M Ant1 Low 2402



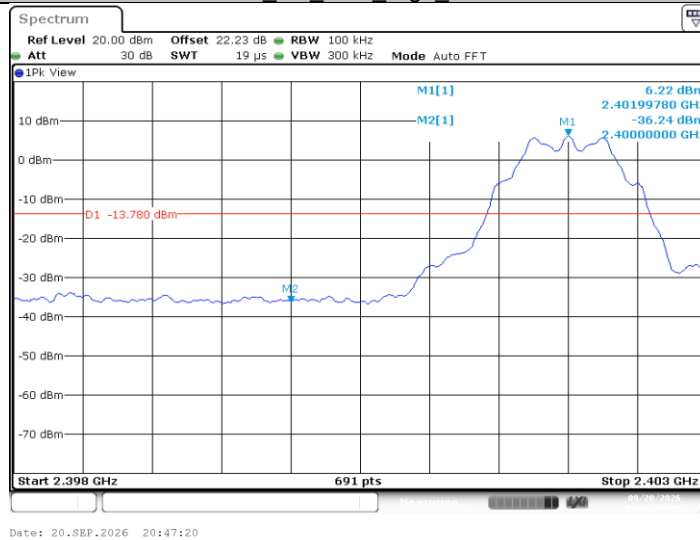
BLE 1M Ant1 High 2480



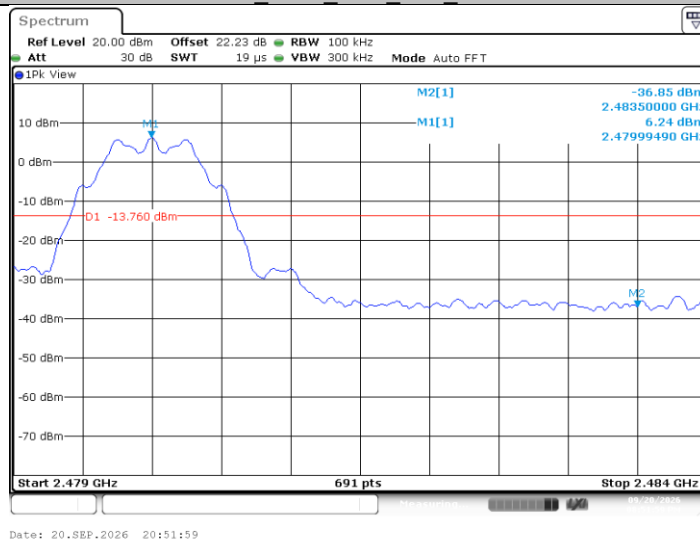
BLE 2M Ant1 Low 2402



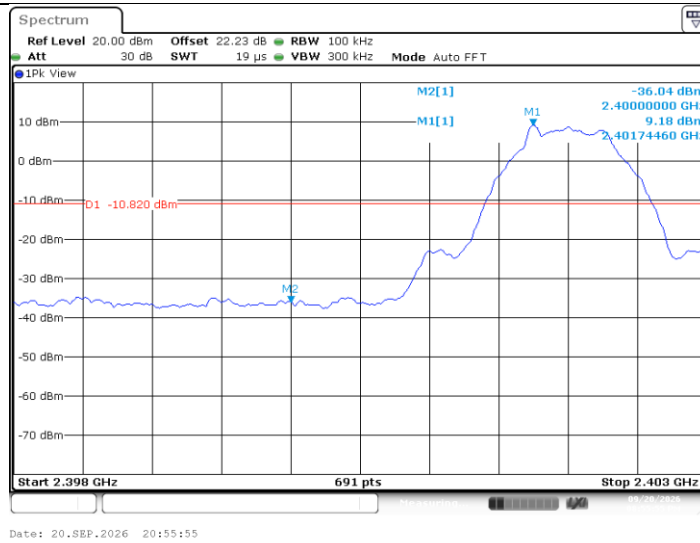
BLE_2M_Ant1_High_2480



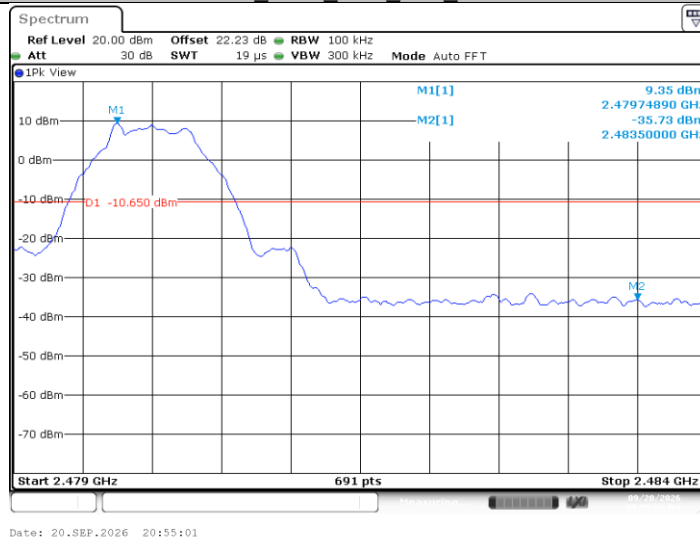
BLE_125K_Ant1_Low_2402



BLE_125K_Ant1_High_2480



BLE_500K Ant1 Low 2402



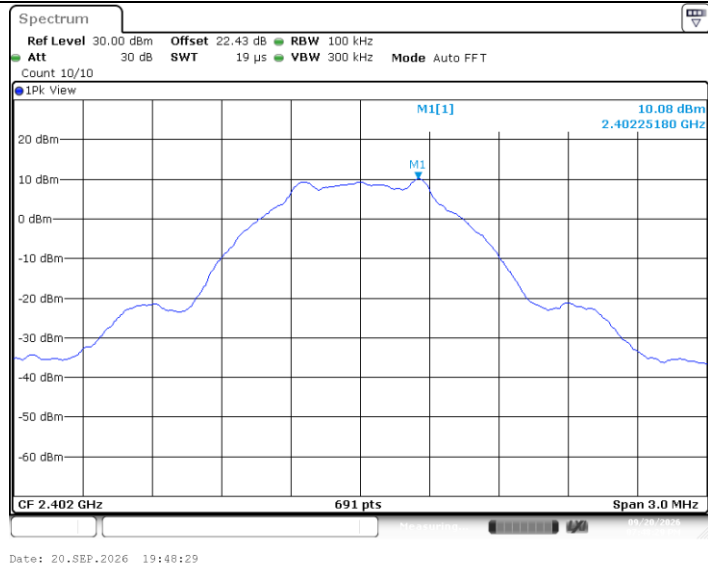
BLE_500K Ant1 High 2480

Appendix A.5: Test Results of Conducted Spurious Emission

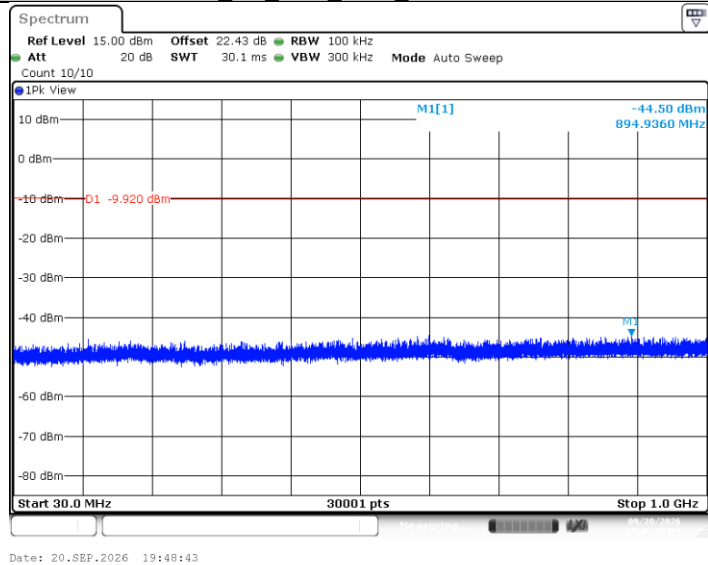
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	10.08	10.08	---	PASS
			30~1000	10.08	-44.5	≤-9.92	PASS
			1000~26500	10.08	-38.62	≤-9.92	PASS
		2440	Reference	10.22	10.22	---	PASS
			30~1000	10.22	-42.85	≤-9.78	PASS
			1000~26500	10.22	-38.52	≤-9.78	PASS
		2480	Reference	9.88	9.88	---	PASS
			30~1000	9.88	-41.93	≤-10.12	PASS
			1000~26500	9.88	-38.26	≤-10.12	PASS
BLE_2M	Ant1	2402	Reference	9.03	9.03	---	PASS
			30~1000	9.03	-40.3	≤-10.97	PASS
			1000~26500	9.03	-38.33	≤-10.97	PASS
		2440	Reference	9.21	9.21	---	PASS
			30~1000	9.21	-44.72	≤-10.79	PASS
			1000~26500	9.21	-38.14	≤-10.79	PASS
		2480	Reference	8.89	8.89	---	PASS
			30~1000	8.89	-42.95	≤-11.11	PASS
			1000~26500	8.89	-37.29	≤-11.11	PASS
BLE_125K	Ant1	2402	Reference	6.80	6.80	---	PASS
			30~1000	6.80	-40.6	≤-13.2	PASS
			1000~26500	6.80	-38.58	≤-13.2	PASS
		2440	Reference	6.92	6.92	---	PASS
			30~1000	6.92	-43.04	≤-13.08	PASS
			1000~26500	6.92	-37.91	≤-13.08	PASS
		2480	Reference	6.60	6.60	---	PASS
			30~1000	6.60	-44.04	≤-13.4	PASS
			1000~26500	6.60	-37.77	≤-13.4	PASS
BLE_500K	Ant1	2402	Reference	9.89	9.89	---	PASS
			30~1000	9.89	-39.39	≤-10.11	PASS
			1000~26500	9.89	-38.39	≤-10.11	PASS
		2440	Reference	10.03	10.03	---	PASS
			30~1000	10.03	-39.04	≤-9.97	PASS
			1000~26500	10.03	-38.82	≤-9.97	PASS
		2480	Reference	9.70	9.70	---	PASS
			30~1000	9.70	-42.87	≤-10.3	PASS
			1000~26500	9.70	-38.5	≤-10.3	PASS

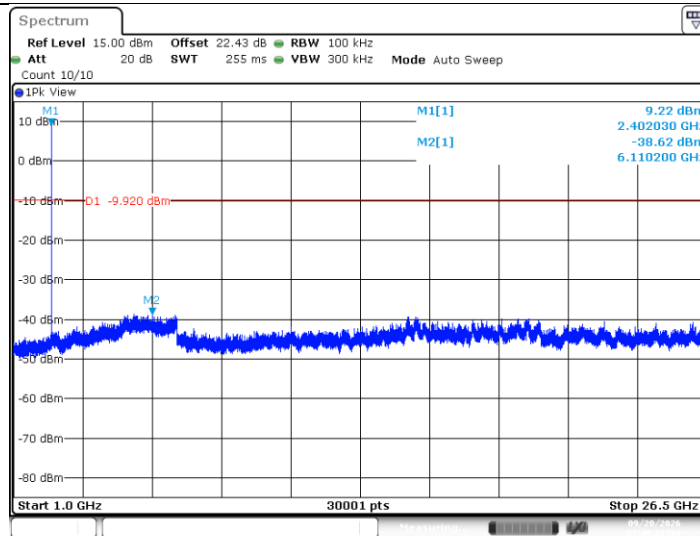
Test Graphs



BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



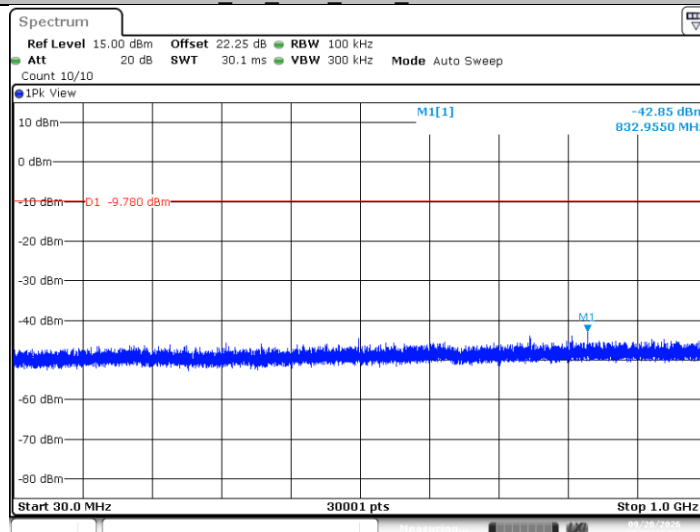
Date: 20.SEP.2026 19:49:21

BLE_1M_Ant1_2402_1000~26500



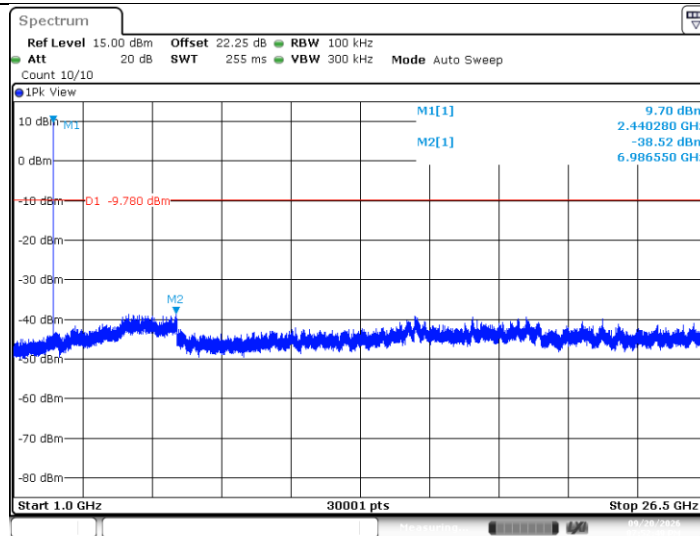
Date: 20.SEP.2026 19:51:57

BLE_1M_Ant1_2440_0~Reference

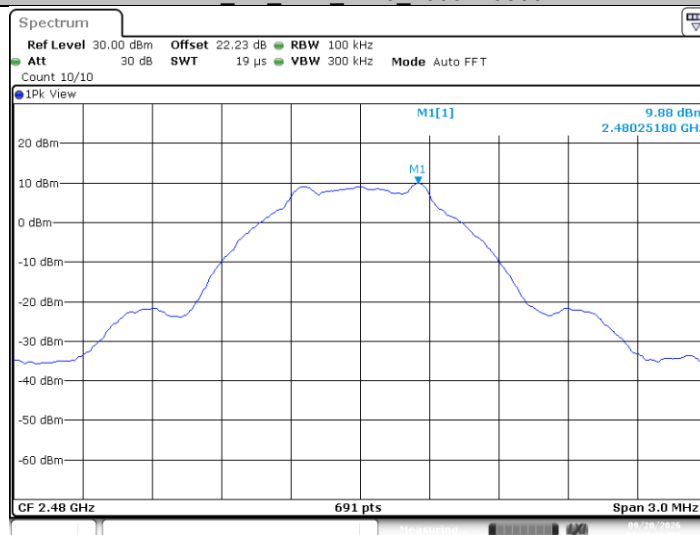


Date: 20.SEP.2026 19:52:11

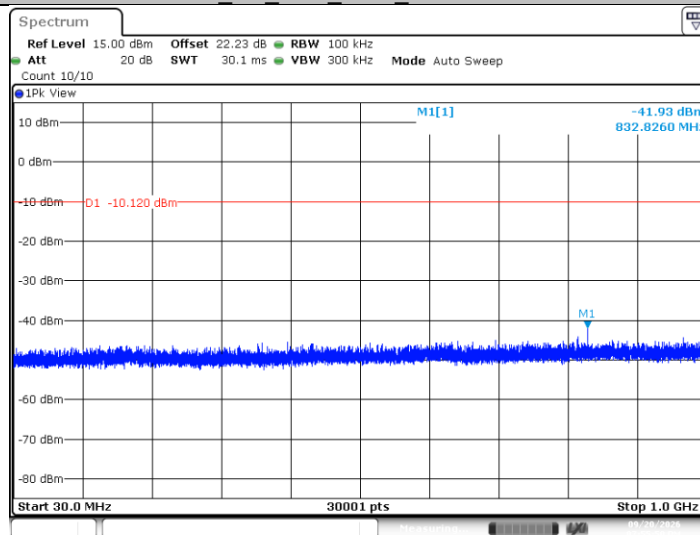
BLE_1M_Ant1_2440_30~1000



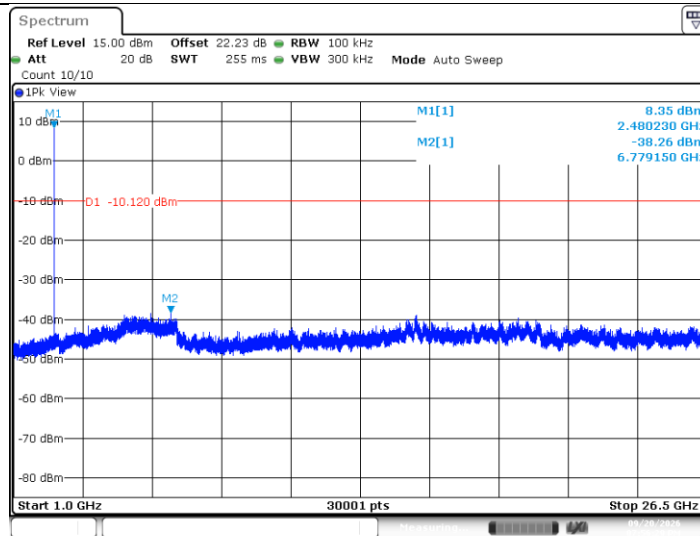
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

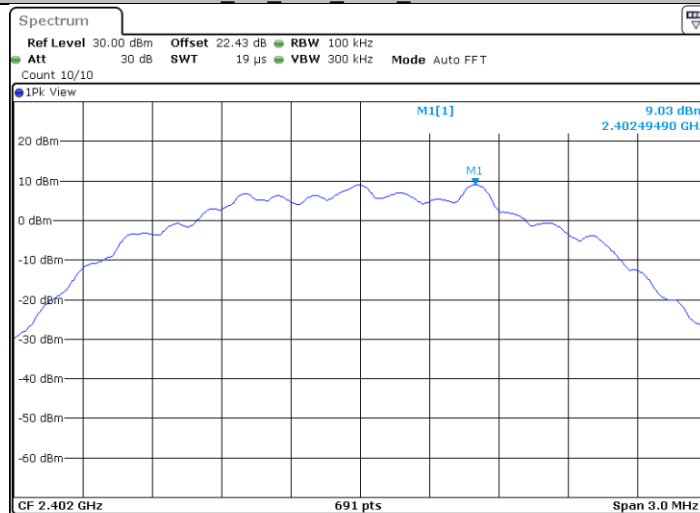


BLE_1M_Ant1_2480_30~1000



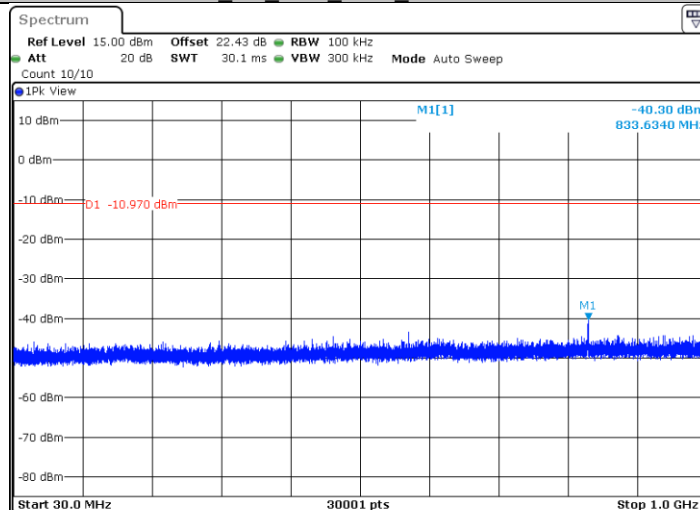
Date: 20.SEP.2026 19:56:29

BLE 1M Ant1 2480_1000~26500



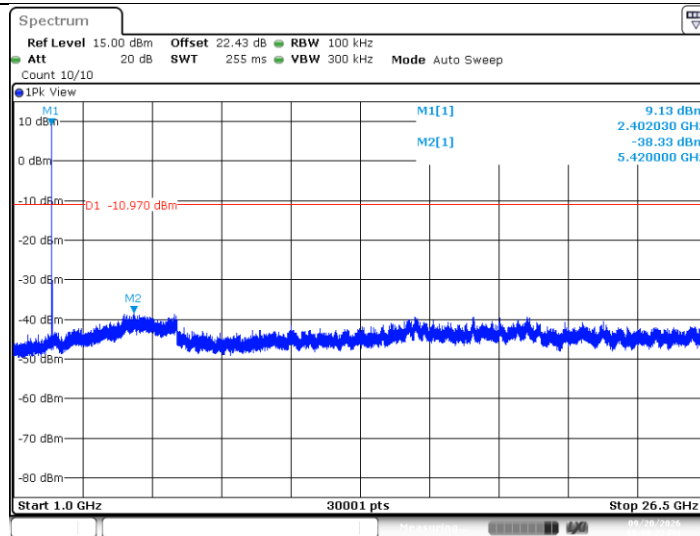
Date: 20.SEP.2026 19:59:30

BLE 2M Ant1 2402_0~Reference



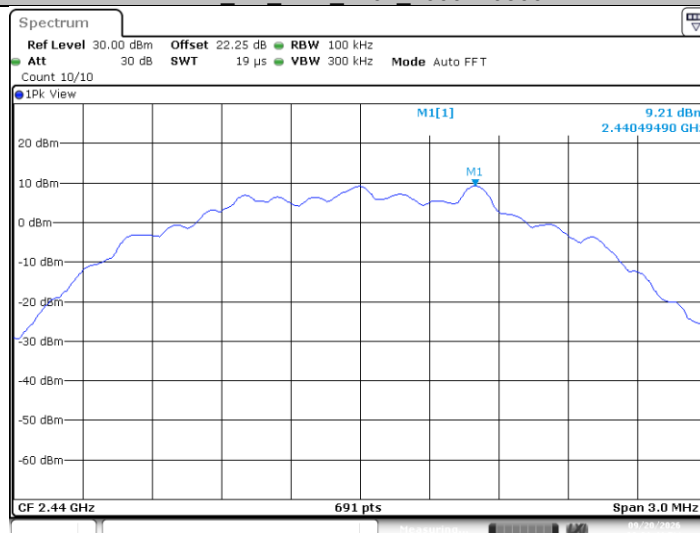
Date: 20.SEP.2026 19:59:44

BLE 2M Ant1 2402_30~1000



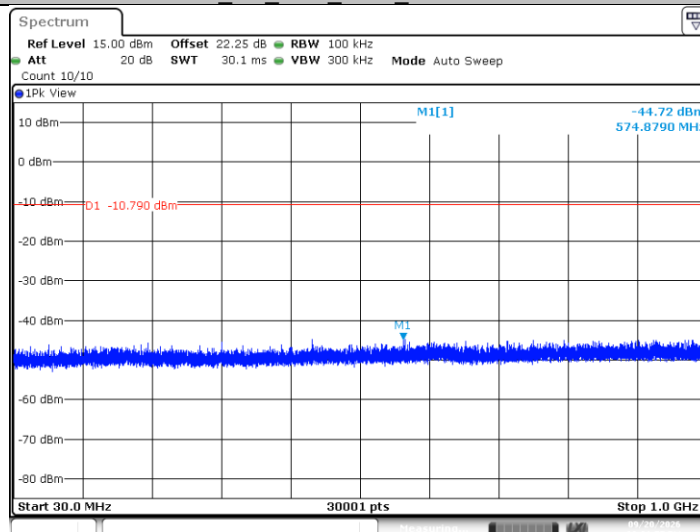
Date: 20.SEP.2026 20:00:22

BLE 2M Ant1 2402_1000~26500



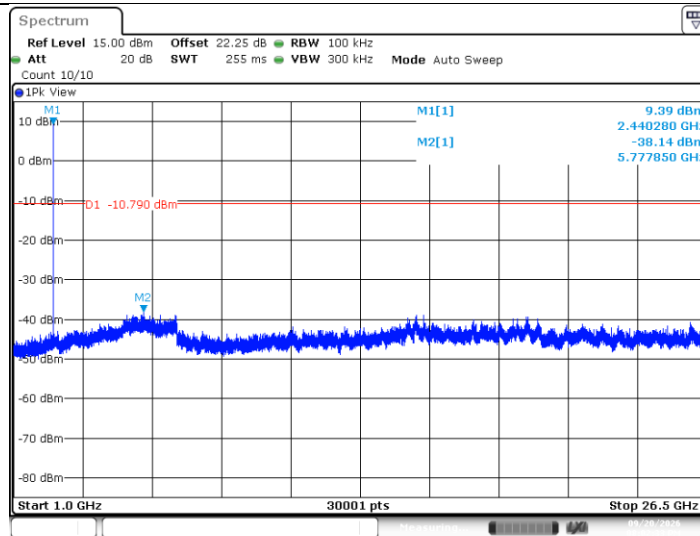
Date: 20.SEP.2026 20:01:41

BLE 2M Ant1 2440_0~Reference



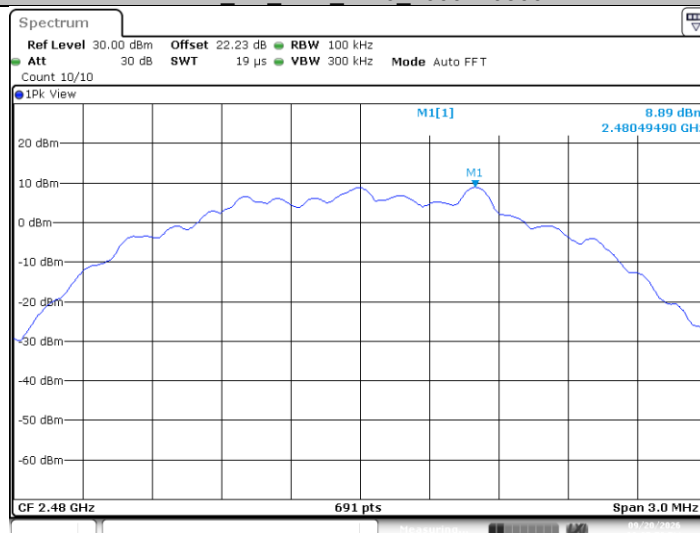
Date: 20.SEP.2026 20:01:55

BLE 2M Ant1 2440_30~1000



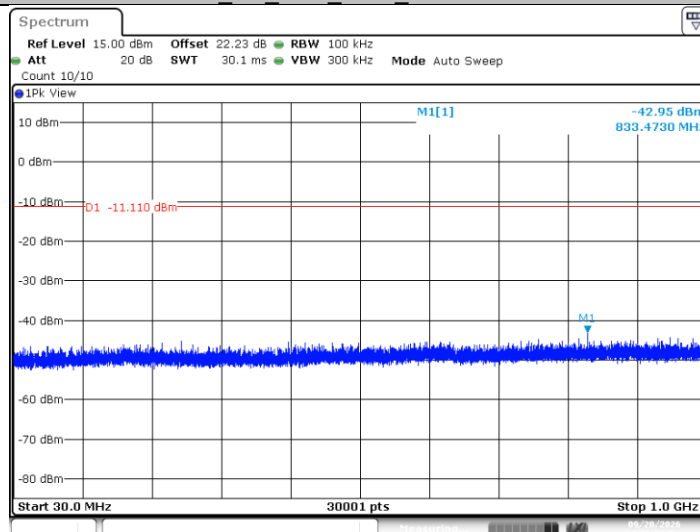
Date: 20.SEP.2026 20:02:34

BLE 2M Ant1 2440_1000~26500



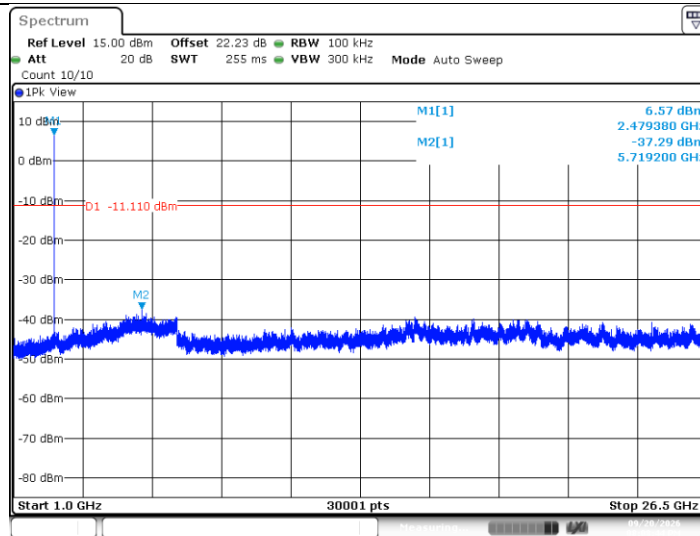
Date: 20.SEP.2026 20:07:53

BLE 2M Ant1 2480_0~Reference



Date: 20.SEP.2026 20:08:06

BLE 2M Ant1 2480_30~1000



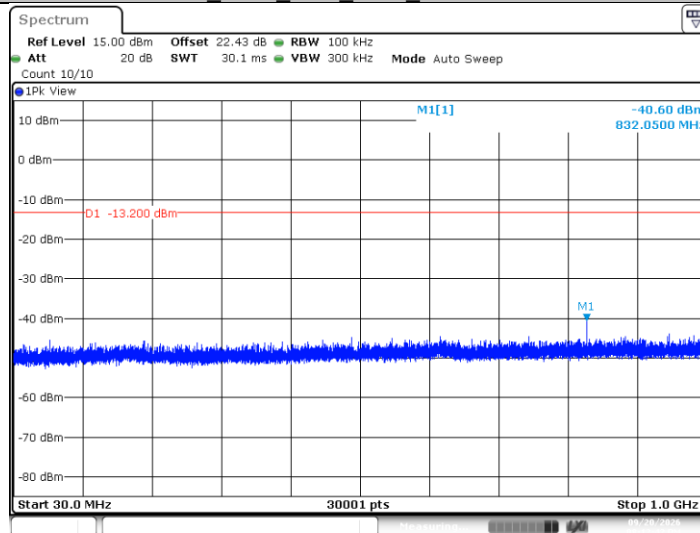
Date: 20.SEP.2026 20:08:45

BLE 2M Ant1 2480_1000~26500



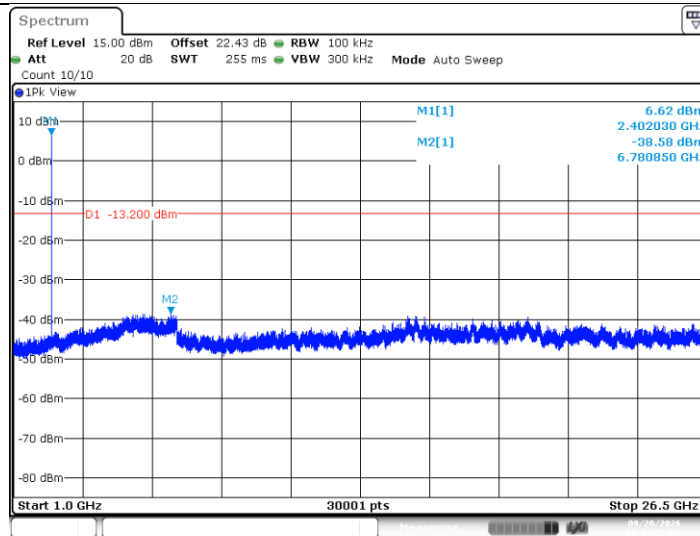
Date: 20.SEP.2026 20:12:28

BLE_125K Ant1 2402_0~Reference



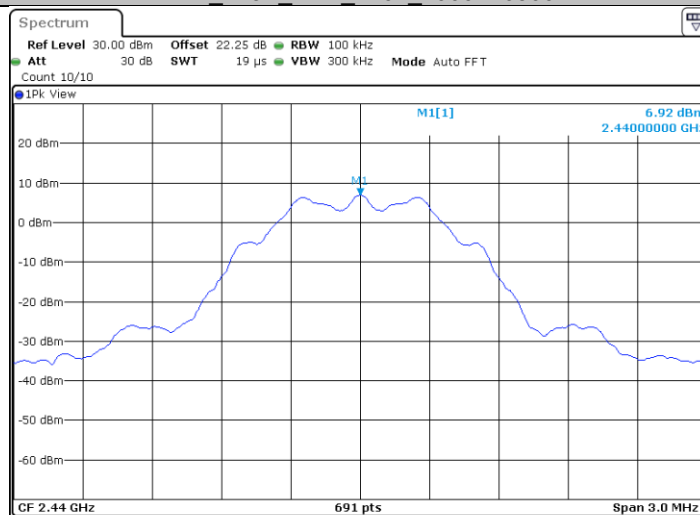
Date: 20.SEP.2026 20:12:42

BLE_125K Ant1 2402_30~1000



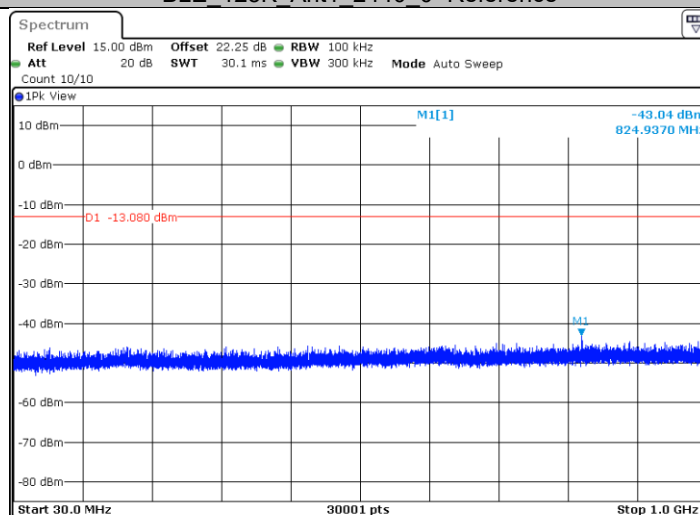
Date: 20.SEP.2026 20:13:21

BLE_125K_Ant1_2402_1000~26500



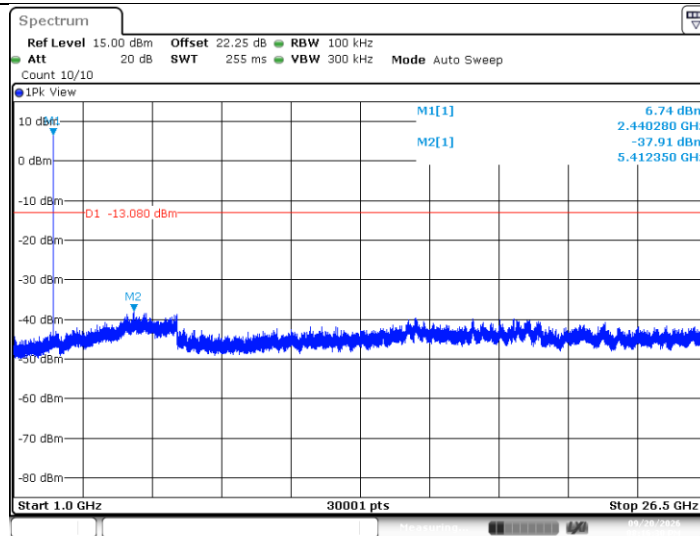
Date: 20.SEP.2026 20:15:38

BLE_125K_Ant1_2440_0~Reference



Date: 20.SEP.2026 20:15:52

BLE_125K_Ant1_2440_30~1000



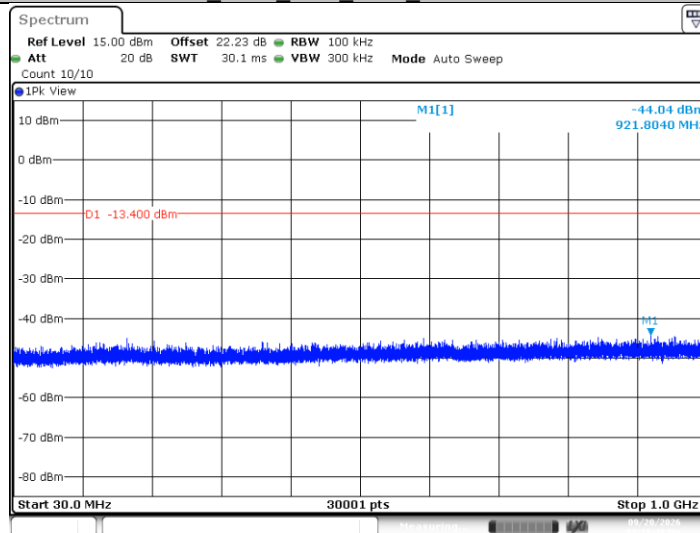
Date: 20.SEP.2026 20:16:30

BLE_125K_Ant1_2440_1000~26500



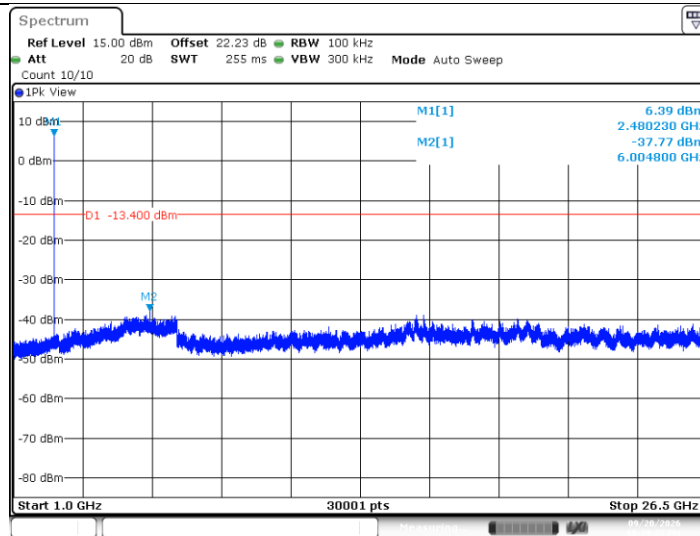
Date: 20.SEP.2026 20:18:35

BLE_125K_Ant1_2480_0~Reference



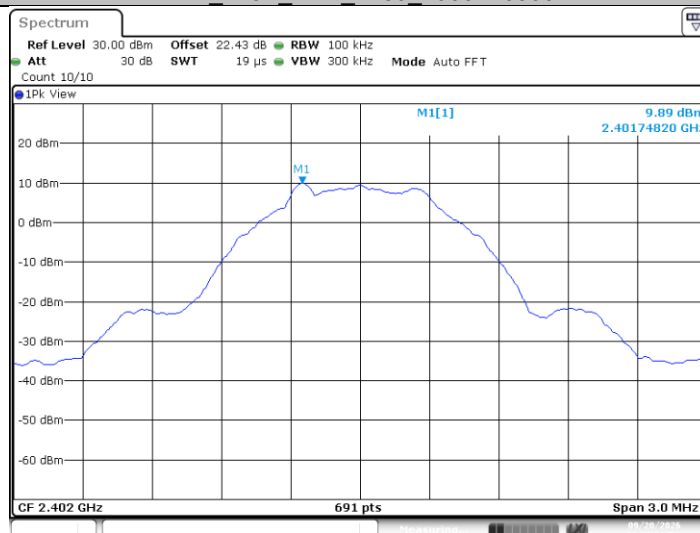
Date: 20.SEP.2026 20:18:49

BLE_125K_Ant1_2480_30~1000



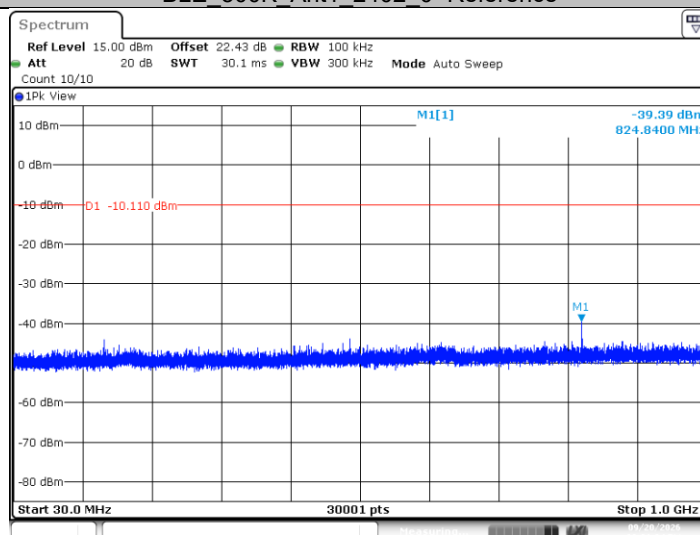
Date: 20.SEP.2026 20:19:27

BLE_125K_Ant1_2480_1000~26500



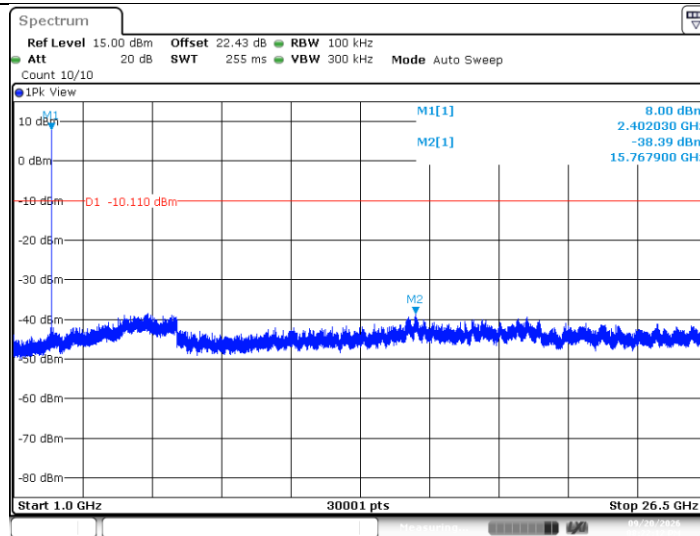
Date: 20.SEP.2026 20:21:21

BLE_500K_Ant1_2402_0~Reference



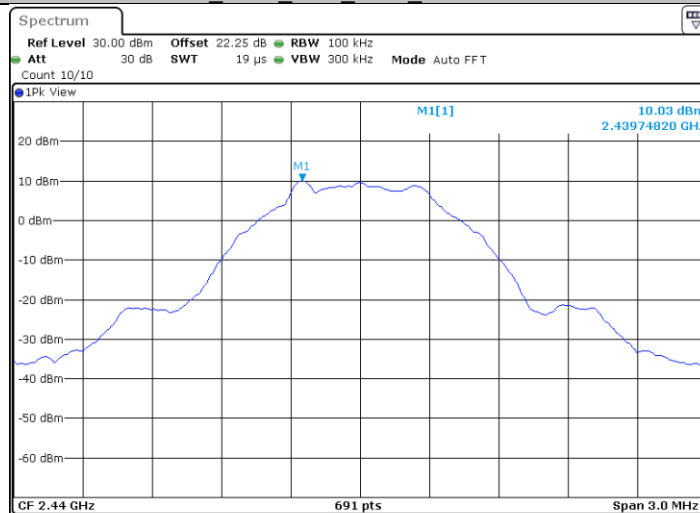
Date: 20.SEP.2026 20:21:34

BLE_500K_Ant1_2402_30~1000



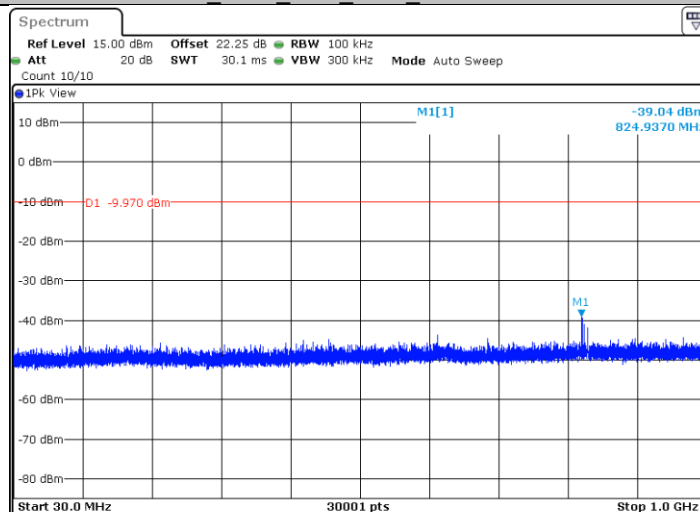
Date: 20.SEP.2026 20:22:13

BLE_500K_Ant1_2402_1000~26500



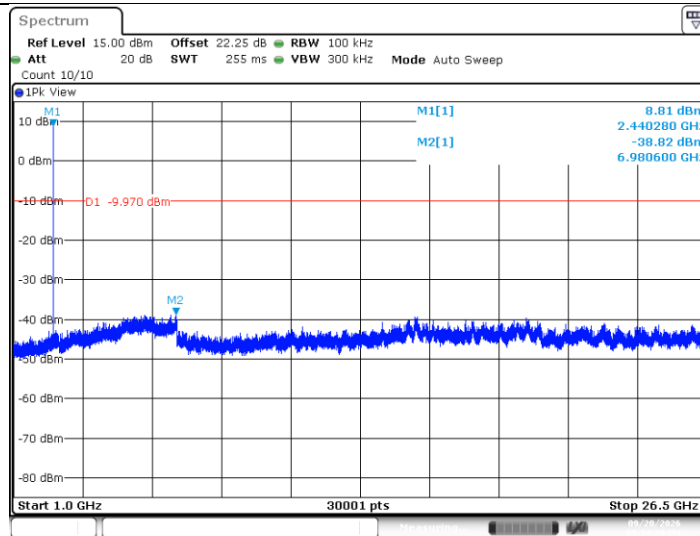
Date: 20.SEP.2026 20:23:47

BLE_500K_Ant1_2440_0~Reference



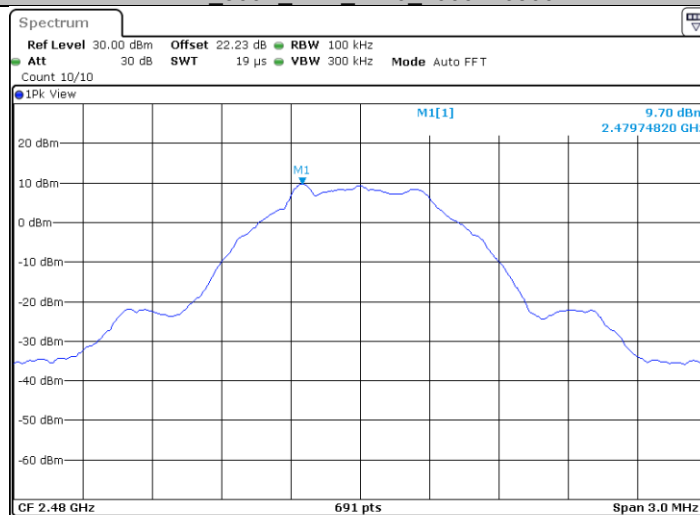
Date: 20.SEP.2026 20:24:01

BLE_500K_Ant1_2440_30~1000



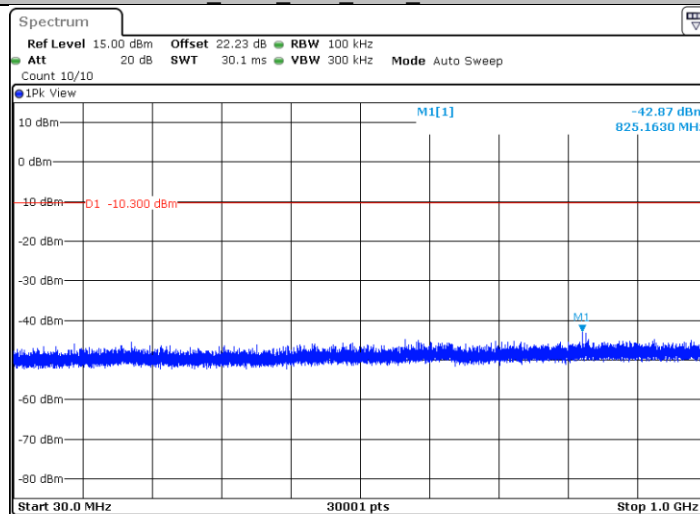
Date: 20.SEP.2026 20:24:39

BLE_500K_Ant1_2440_1000~26500



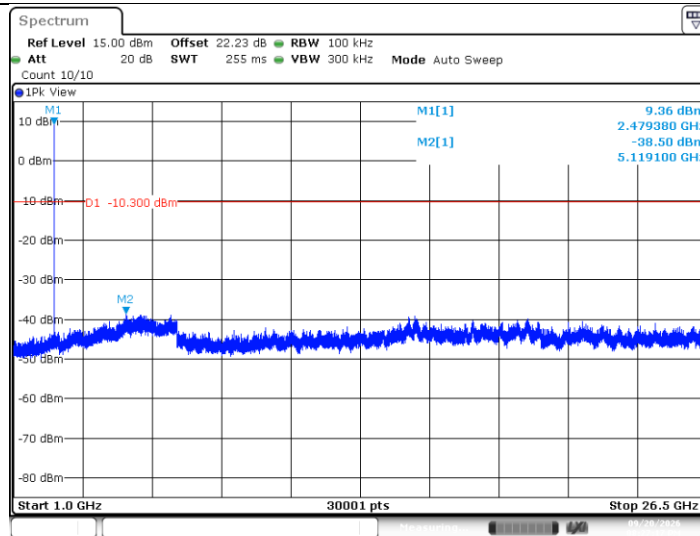
Date: 20.SEP.2026 20:26:26

BLE_500K_Ant1_2480_0~Reference



Date: 20.SEP.2026 20:26:39

BLE_500K_Ant1_2480_30~1000



Date: 20.SEP.2026 20:27:18

BLE_500K Ant1_2480_1000~26500

Appendix A.6: Test Results of Radiated Spurious Emissions

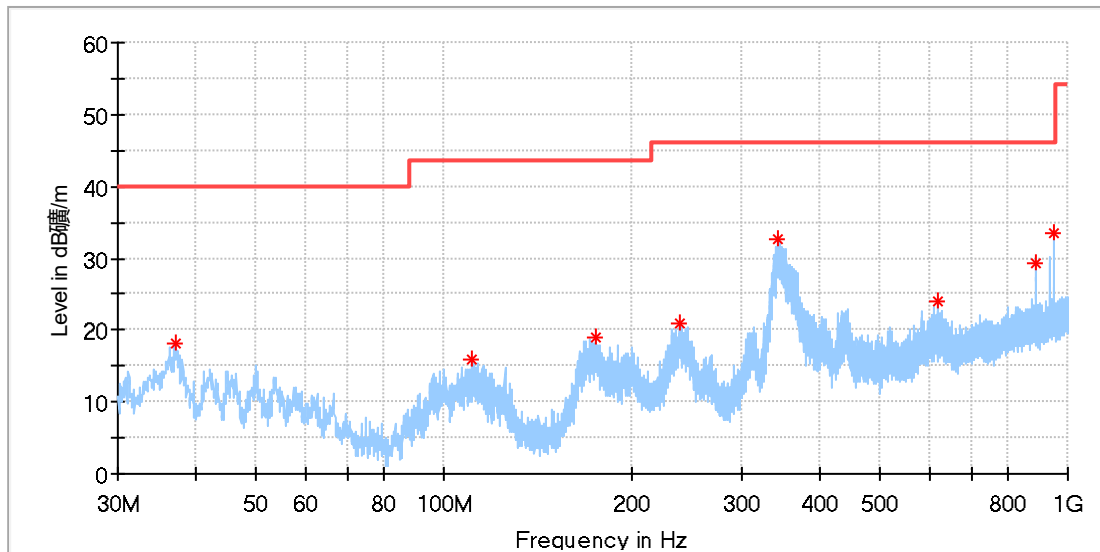
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

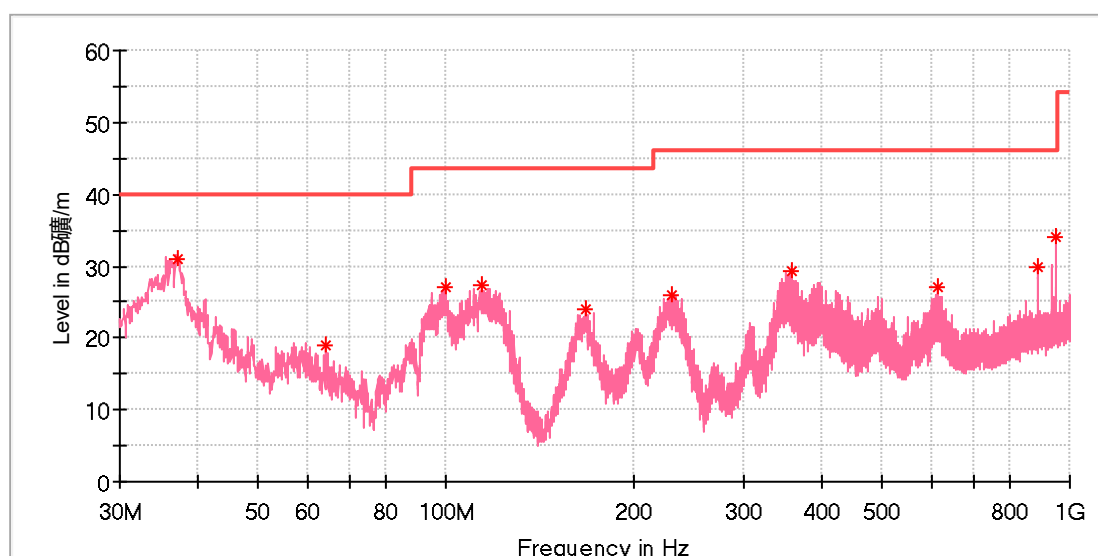
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.059444	18.18	40.00	21.82	100.0	H	22.0	-21.2
111.156667	15.83	43.50	27.67	100.0	H	199.0	-19.4
175.661667	18.91	43.50	24.59	100.0	H	165.0	-21.0
238.711667	20.97	46.00	25.03	100.0	H	338.0	-17.8
343.579444	32.62	46.00	13.38	100.0	H	172.0	-15.0
618.897778	23.86	46.00	22.14	100.0	H	199.0	-9.3
890.928889	29.44	46.00	16.56	100.0	H	301.0	-4.9
950.368333	33.61	46.00	12.39	100.0	H	285.0	-4.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Dolphin Sense
Model: AMZN-DS100-G1R-M
Test Mode: BLE 1M
Order No/Sample No: A004385930-002
Test Voltage: DC 12V
Remark: Temp 23 Humi:53%
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)
37.059444	30.96	40.00	9.04	100.0	V	194.0	-21.2
64.219444	19.10	40.00	20.90	100.0	V	0.0	-20.1
99.624444	27.02	43.50	16.48	100.0	V	254.0	-19.2
114.443889	27.34	43.50	16.16	100.0	V	260.0	-19.8
167.847778	24.06	43.50	19.44	100.0	V	173.0	-21.4
230.143333	26.08	46.00	19.92	100.0	V	298.0	-18.1
358.237222	29.44	46.00	16.56	100.0	V	359.0	-14.7
613.616667	27.08	46.00	18.92	100.0	V	245.0	-9.4
890.982778	29.77	46.00	16.23	100.0	V	40.0	-4.9
950.368333	34.06	46.00	11.94	100.0	V	129.0	-4.3

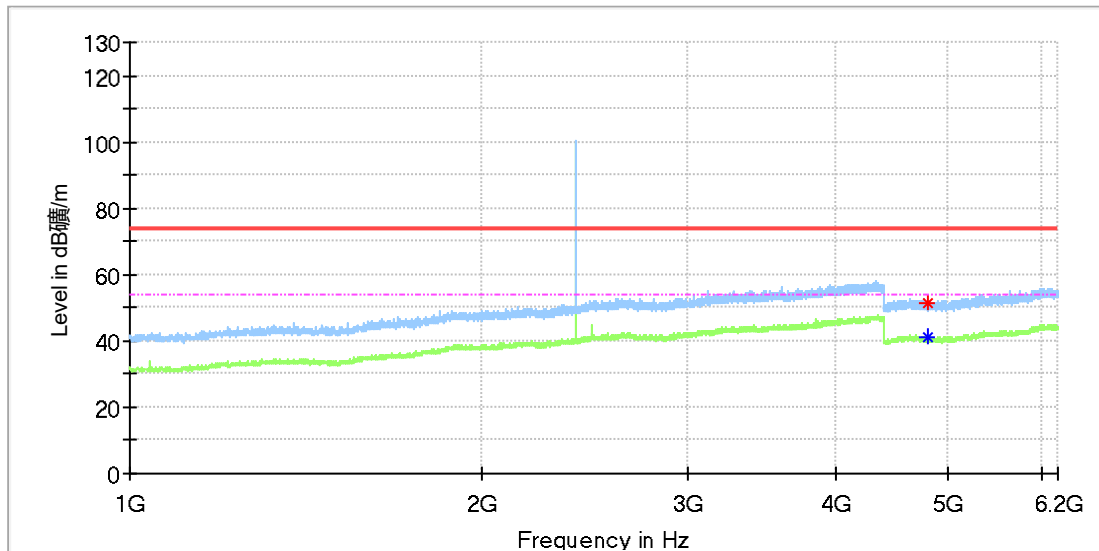
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Low Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

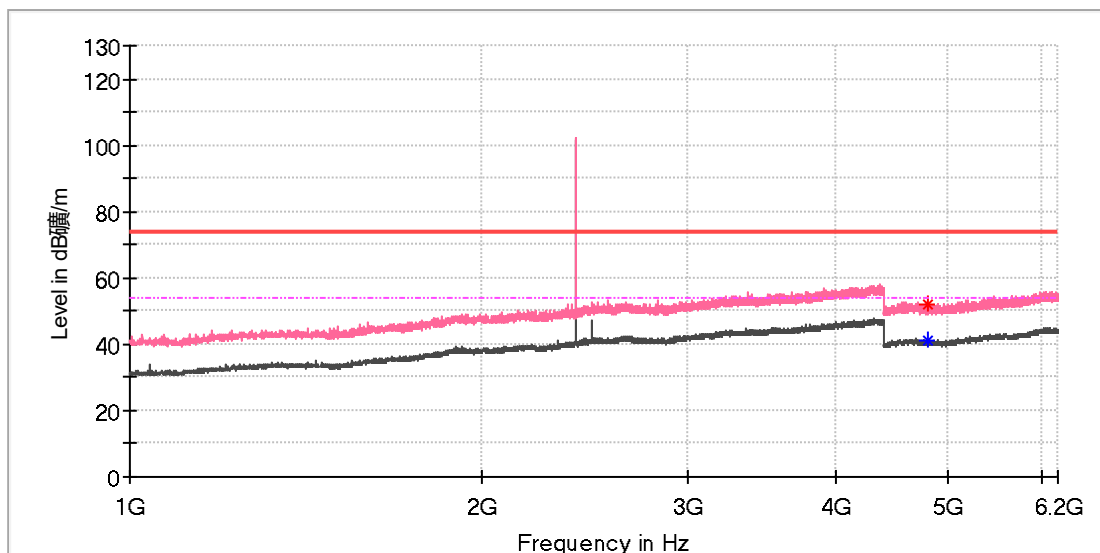
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	51.18	---	74.00	22.82	150.0	H	73.0	13.3
4804.000000	---	40.85	54.00	13.15	150.0	H	192.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
900-960 MHz	90-120 dBμV/m	80-110 dBμV/m	120 dBμV/m	-30 dB	300-500 cm	N/A	0-360 deg	-30 dB/m

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Low Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

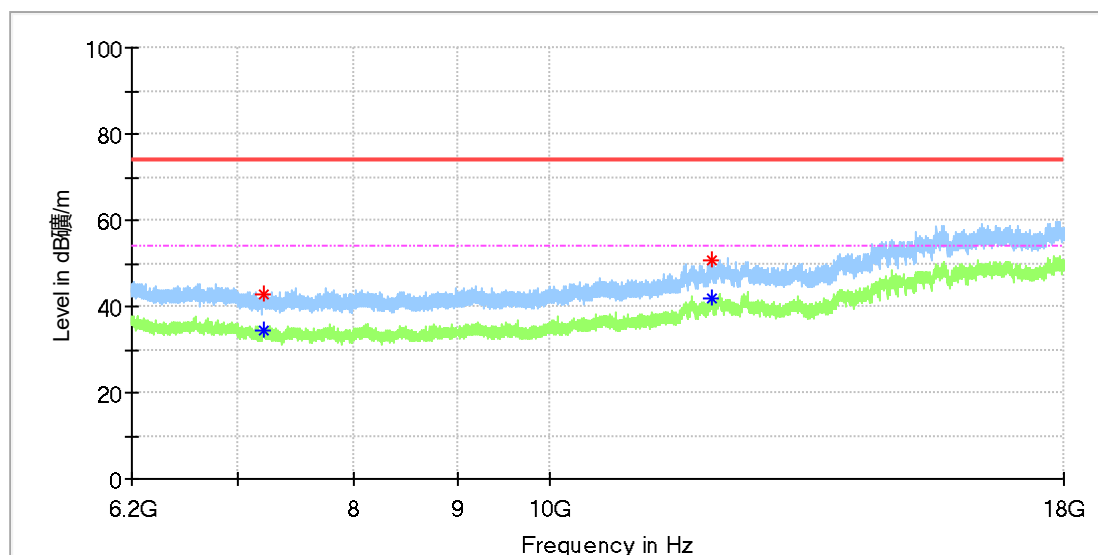
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	41.04	54.00	12.96	150.0	V	2.0	13.3
4804.500000	52.07	---	74.00	21.93	150.0	V	207.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Low Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

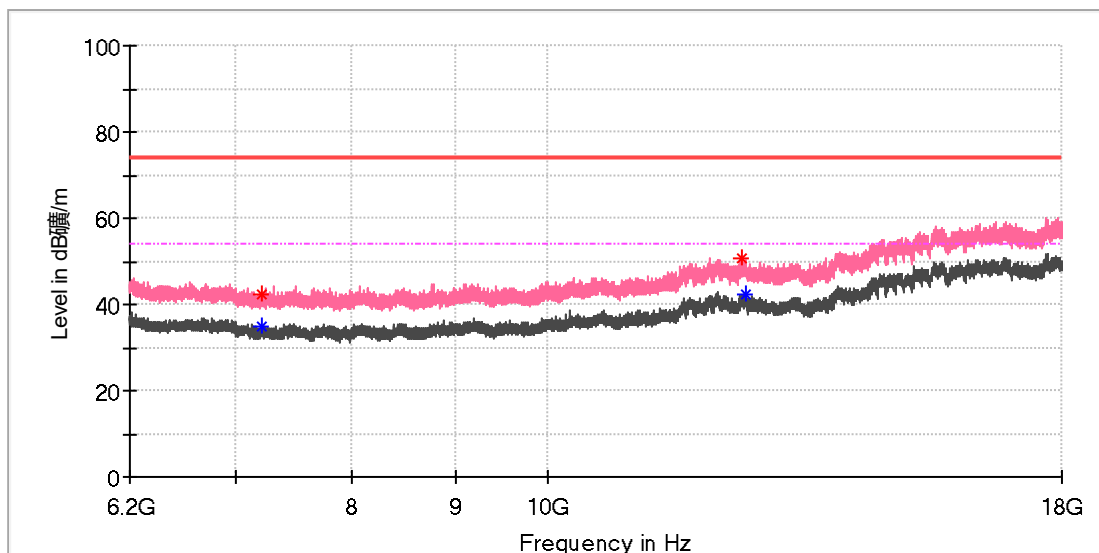
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7202.016667	42.74	---	74.00	31.26	150.0	H	172.0	8.8
7203.491667	---	34.54	54.00	19.46	150.0	H	3.0	8.8
12024.775000	50.83	---	74.00	23.17	150.0	H	172.0	15.8
12043.458333	---	41.82	54.00	12.18	150.0	H	140.0	16.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Low Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

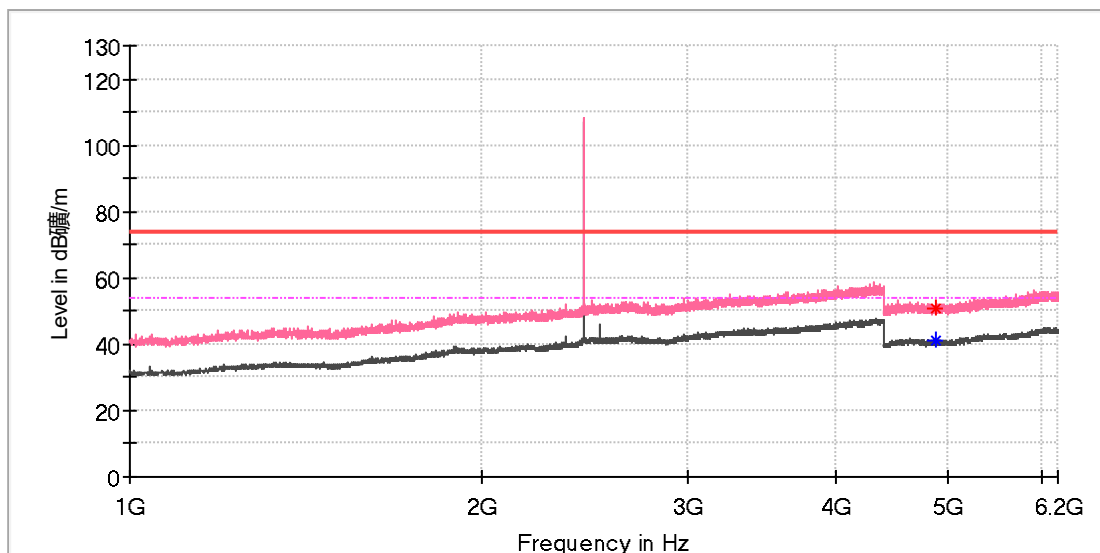
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7202.508333	42.22	---	74.00	31.78	150.0	V	325.0	8.8
7203.983333	---	34.83	54.00	19.17	150.0	V	140.0	8.8
12478.583333	50.84	---	74.00	23.16	150.0	V	0.0	16.1
12545.450000	---	42.48	54.00	11.52	150.0	V	346.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Mid Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

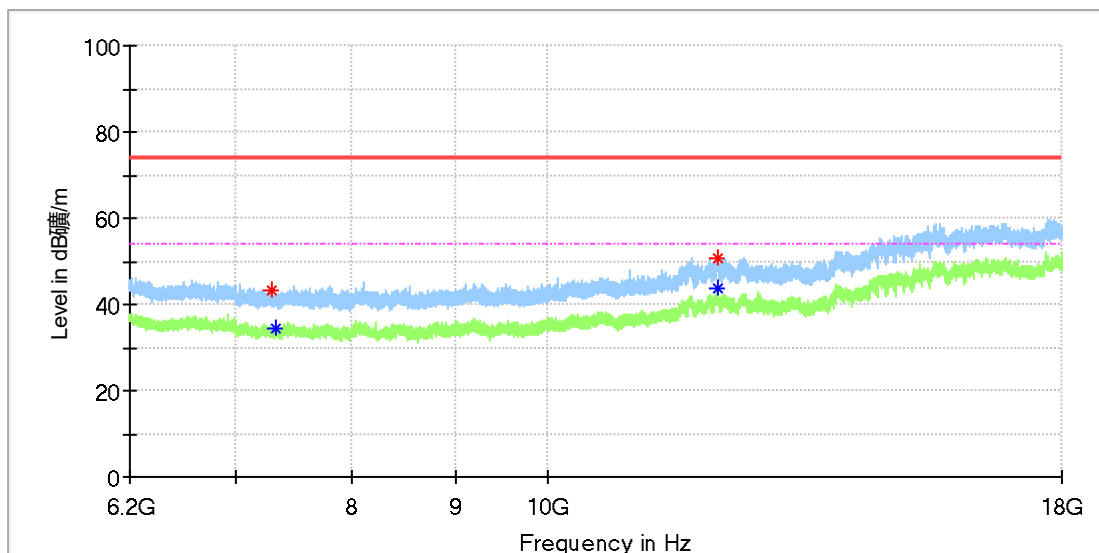
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	---	40.84	54.00	13.16	150.0	V	270.0	13.3
4882.500000	51.06	---	74.00	22.94	150.0	V	118.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Mid Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

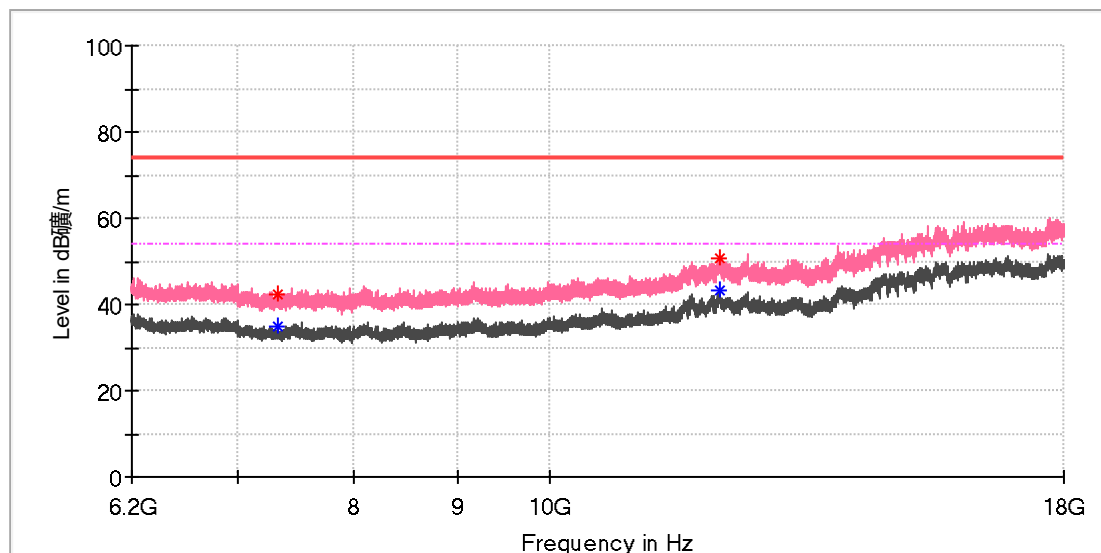
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7288.058333	43.21	---	74.00	30.79	150.0	H	190.0	8.4
7322.966667	---	34.58	54.00	19.42	150.0	H	317.0	8.2
12152.116667	50.49	---	74.00	23.51	150.0	H	339.0	16.6
12155.066667	---	43.64	54.00	10.36	150.0	H	201.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Mid Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

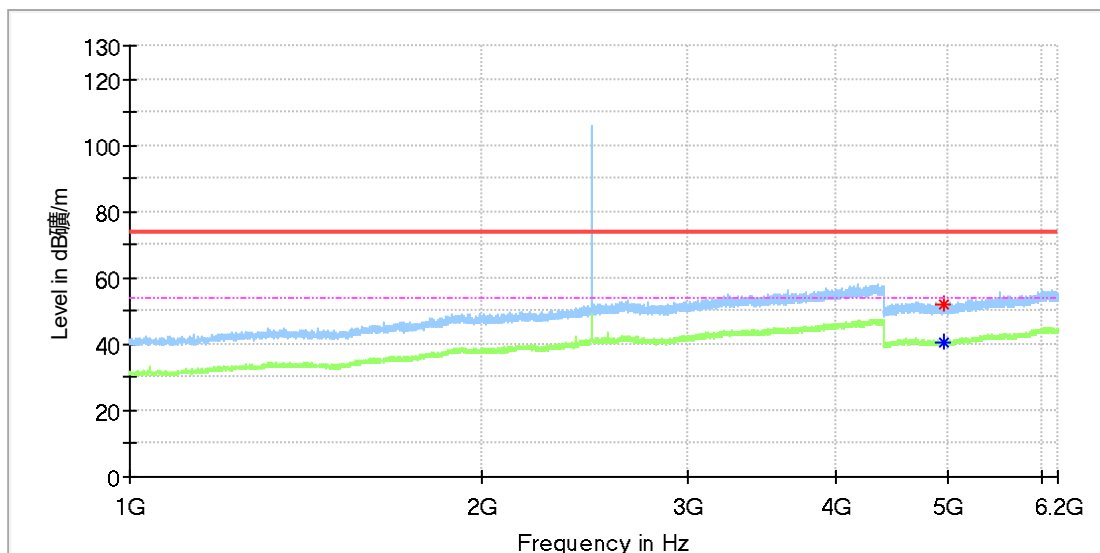
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.508333	---	34.81	54.00	19.19	150.0	V	318.0	8.2
7321.000000	42.24	---	74.00	31.76	150.0	V	0.0	8.2
12141.300000	50.89	---	74.00	23.11	150.0	V	330.0	16.5
12141.791667	---	43.03	54.00	10.97	150.0	V	0.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_High Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

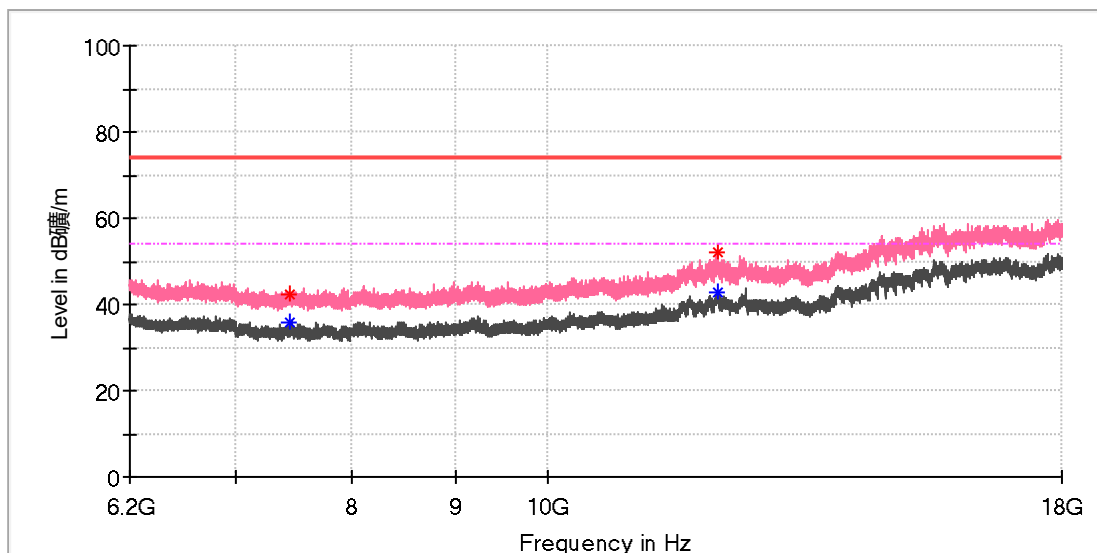
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4961.500000	---	40.67	54.00	13.33	150.0	H	181.0	13.3
4961.500000	51.82	---	74.00	22.18	150.0	H	181.0	13.3

Final Result

[illegible]

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_High Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
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)
7441.950000	42.43	---	74.00	31.57	150.0	V	175.0	8.4
7444.408333	---	35.70	54.00	18.30	150.0	V	131.0	8.5
12138.350000	---	42.73	54.00	11.27	150.0	V	20.0	16.4
12151.625000	52.28	---	74.00	21.72	150.0	V	321.0	16.6

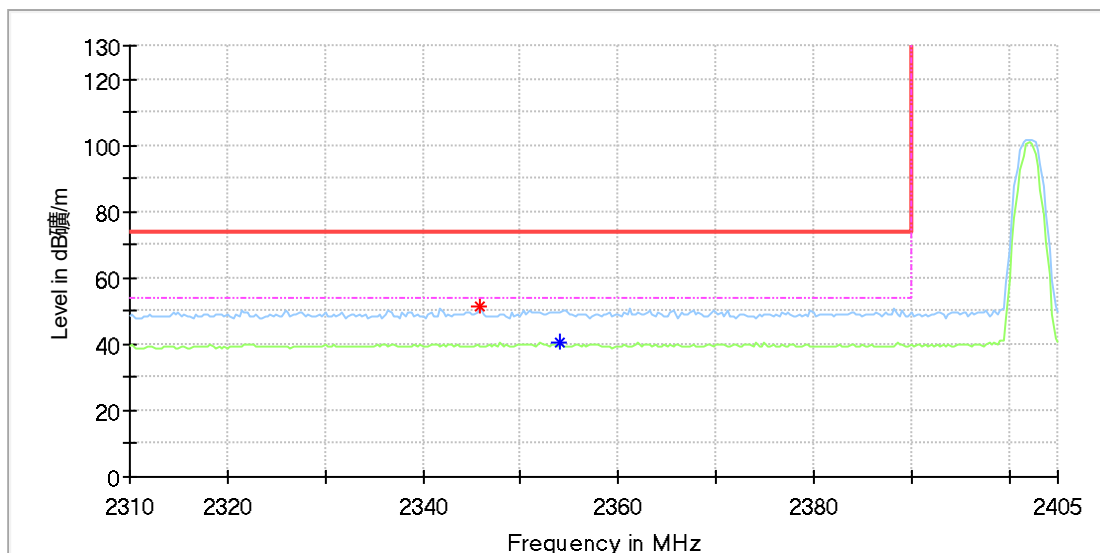
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 500K_Low Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

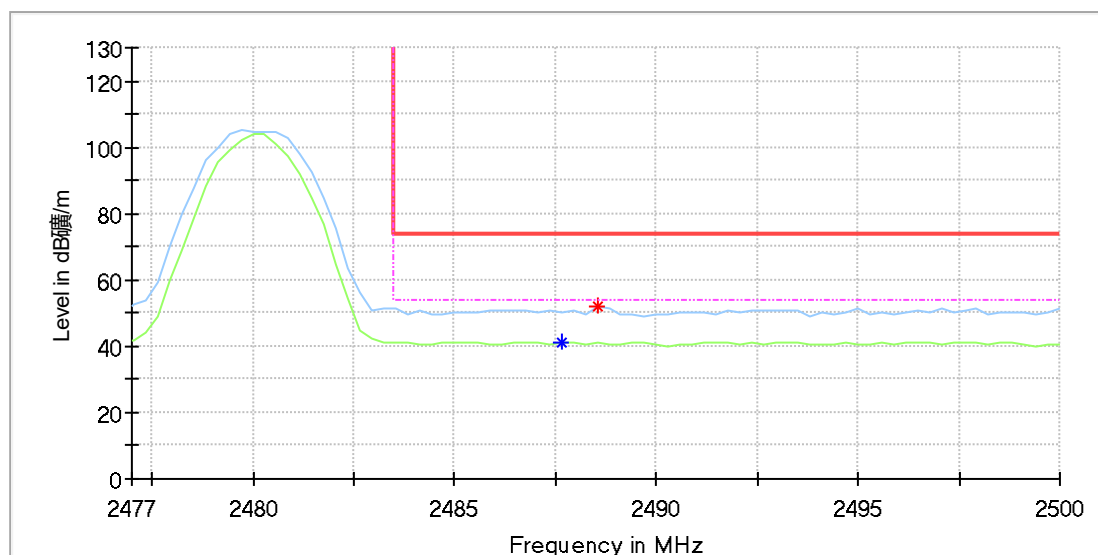
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2345.882353	51.18	---	74.00	22.82	150.0	H	289.0	8.5
2354.117647	---	40.49	54.00	13.51	150.0	H	142.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm	93.750	93.750 deg	93.750 dB/m

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 500K_High Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
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)
2487.647059	---	41.37	54.00	12.63	150.0	H	73.0	9.0
2488.529412	52.08	---	74.00	21.92	150.0	H	187.0	9.0

Final Result

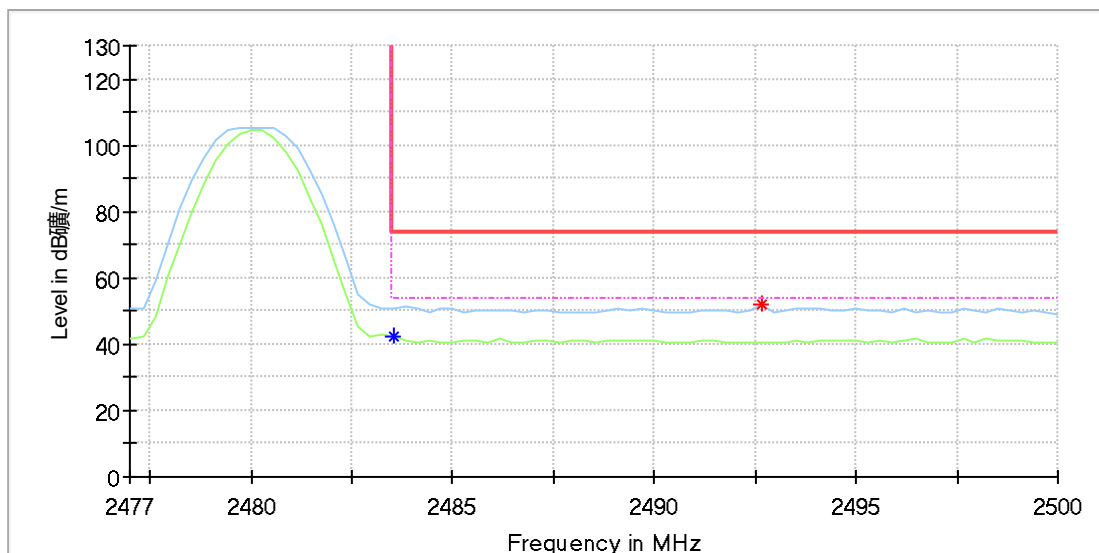
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	120.000000	110.000000	120.000000	0.000000	100.000000	000	000	000

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 125K_High Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
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)
2483.529412	---	42.42	54.00	11.58	150.0	H	183.0	9.0
2492.647059	52.14	---	74.00	21.86	150.0	H	209.0	9.0

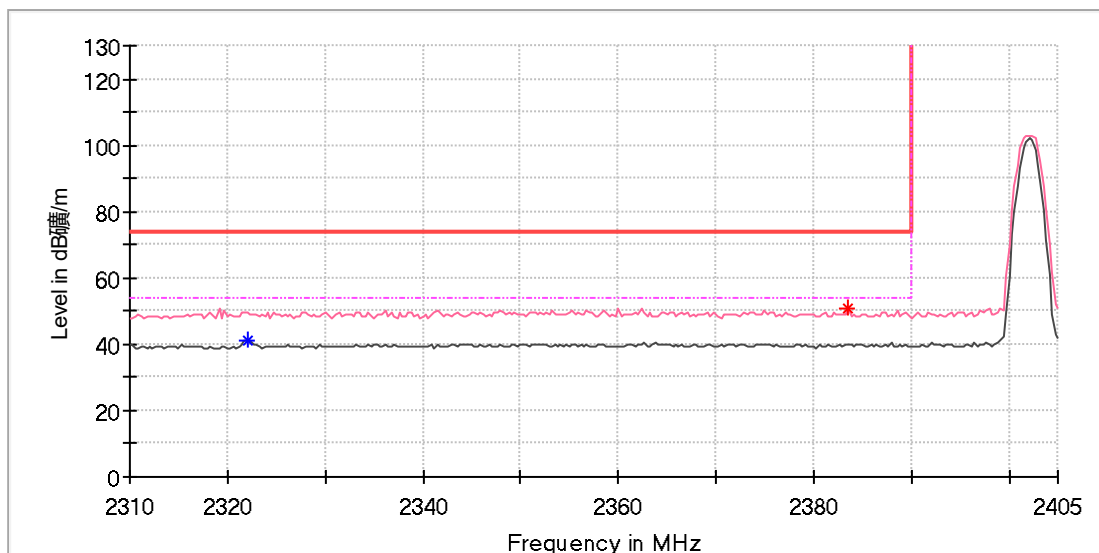
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	120.000000	110.000000	120.000000	0.000000	100.000000	000000	000000	000000

EUT Information

EUT Information

EUT Name:	Dolphin Sense
Model:	AMZN-DS100-G1R-M
Test Mode:	BLE 1M_Low Channel
Order No/Sample No:	A004385930-002
Test Voltage:	DC 12V
Remark:	Temp 23 Humi:53%
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)
2322.058824	---	41.39	54.00	12.61	150.0	V	48.0	8.2
2383.529412	51.01	---	74.00	22.99	150.0	V	62.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75 MHz	120.00 dBμV/m	110.00 dBμV/m	120.00 dBμV/m	0.00 dB	30.00 cm	000	000	00.00 dB/m

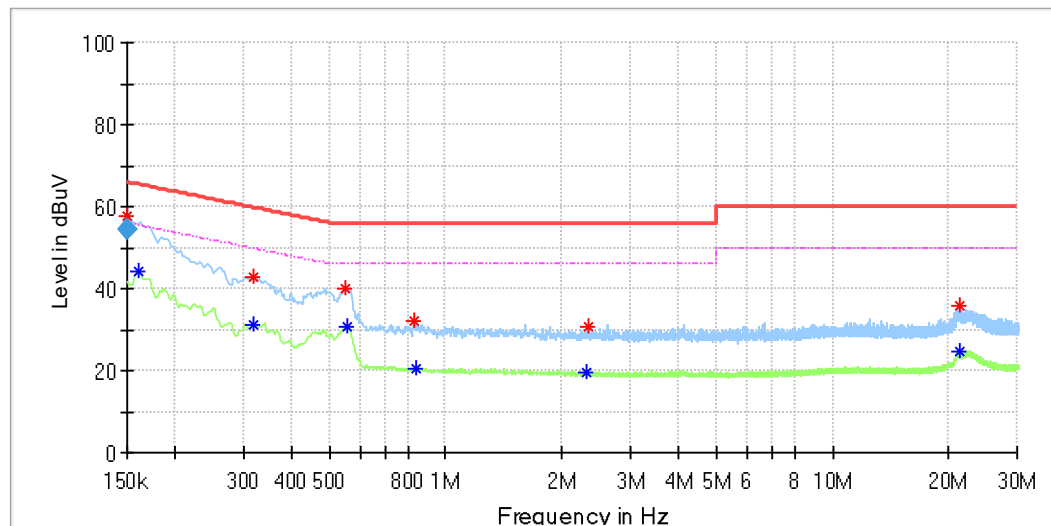
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	120.000000	110.000000	120.000000	0.000000	100.000000	000	000	000

Appendix A.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Dolphin Sense
Model: AMZN-DS100-G1R-M
Sample: A004385930-001~002
Test Mode: Wireless Connecting
Test Voltage: AC 120V60Hz
Remark: Temp:24.3 ; Humi:51.1%
Test standard: FCC Part 15B
Tested By: Xin Zhang
Reviewed by: Charlie Zha



Critical Freqs

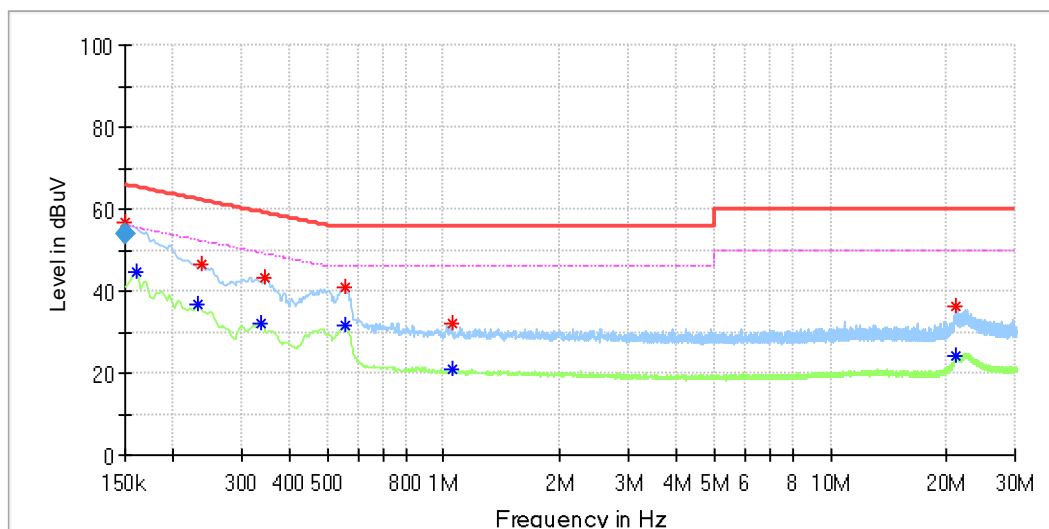
Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.15	57.76	---	66.00	8.24	L1	9.53
0.16	---	44.42	55.47	11.05	L1	9.58
0.32	---	30.96	49.79	18.83	L1	9.59
0.32	42.59	---	59.79	17.20	L1	9.59
0.55	39.88	---	56.00	16.12	L1	9.54
0.56	---	30.70	46.00	15.30	L1	9.55
0.83	32.11	---	56.00	23.89	L1	9.71
0.84	---	20.34	46.00	25.66	L1	9.70
2.31	---	19.66	46.00	26.34	L1	9.59
2.32	30.62	---	56.00	25.38	L1	9.59
21.25	35.89	---	60.00	24.11	L1	9.80
21.31	---	24.70	50.00	25.30	L1	9.80

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	54.25	---	66.00	11.75	1000.00	9.00	L1	9.53

EUT Information

EUT Name: Dolphin Sense
Model: AMZN-DS100-G1R-M
Sample: A004385930-001~002
Test Mode: Wireless Connecting
Test Voltage: AC 120V60Hz
Remark: Temp:24.3 ; Humi:51.1%
Test standard: FCC Part 15B
Tested By: Xin Zhang
Reviewed by: Charlie Zha



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.15	56.81	---	66.00	9.19	N	9.73
0.16	---	44.46	55.47	11.01	N	9.78
0.23	---	36.62	52.38	15.75	N	9.94
0.24	46.31	---	62.20	15.89	N	9.94
0.34	---	31.96	49.29	17.32	N	9.94
0.35	43.49	---	59.05	15.56	N	9.95
0.55	40.93	---	56.00	15.07	N	9.92
0.56	---	31.56	46.00	14.44	N	9.92
1.05	32.13	---	56.00	23.87	N	9.77
1.05	---	20.86	46.00	25.14	N	9.77
21.09	---	24.28	50.00	25.72	N	9.75
21.12	36.26	---	60.00	23.74	N	9.75

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	53.72	---	66.00	12.28	1000.00	9.00	N	9.73