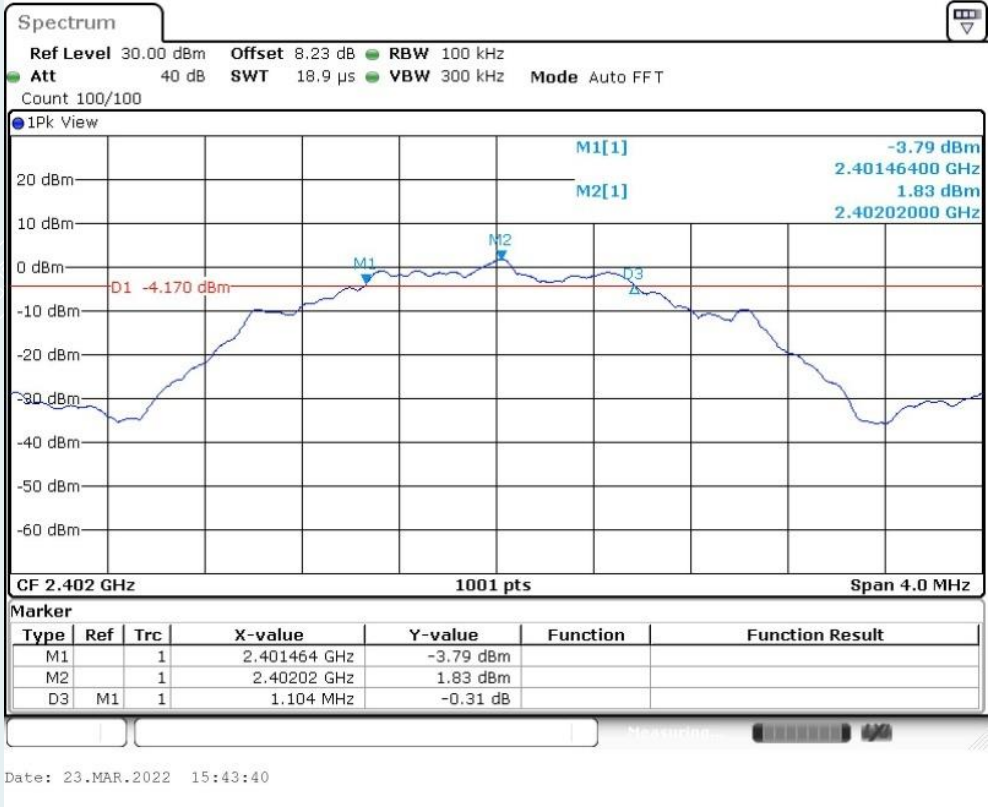
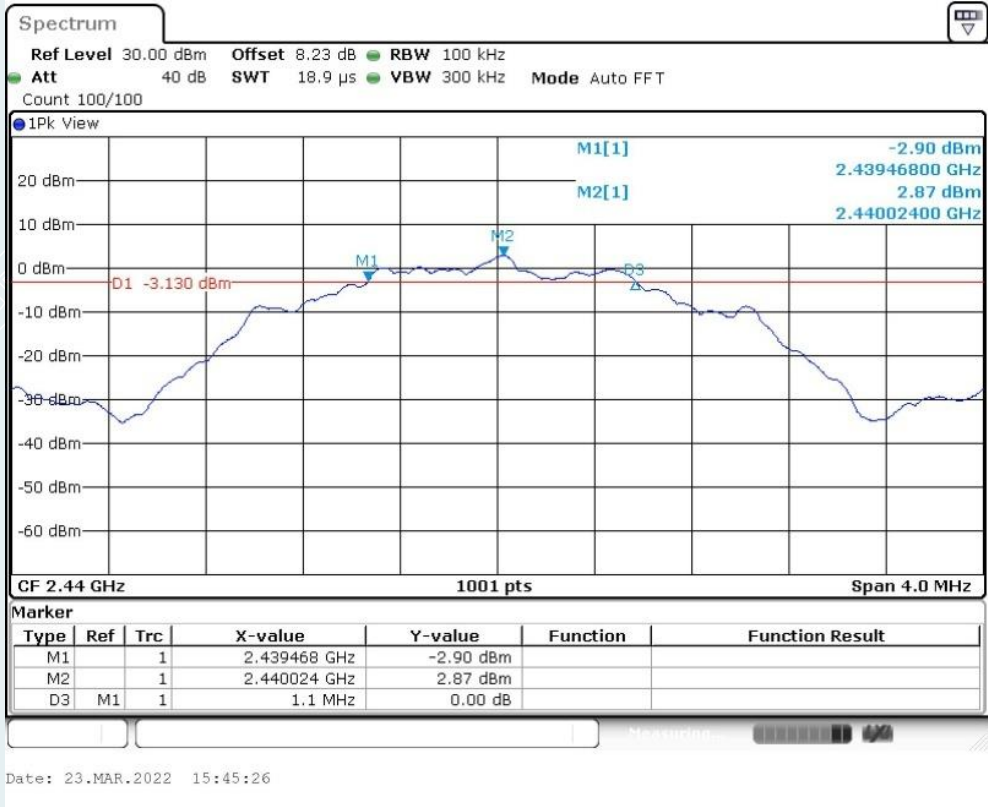


BLE_2M

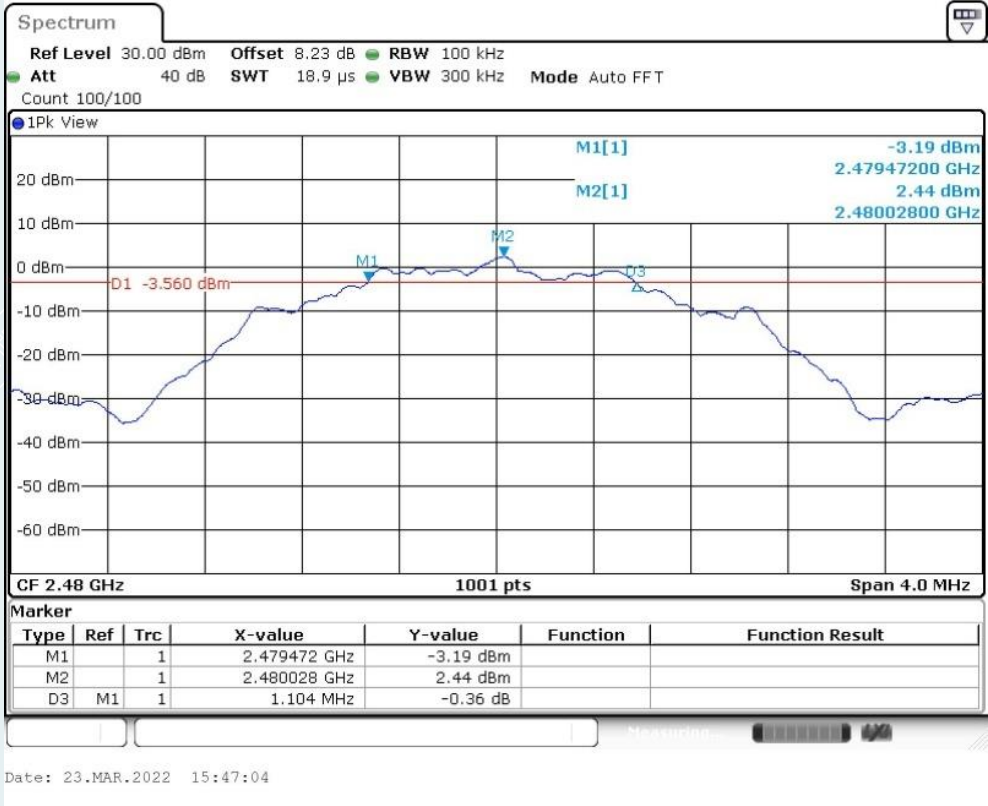
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



----- The following blanks -----

8. MAXIMUM PEAK OUTPUT POWER

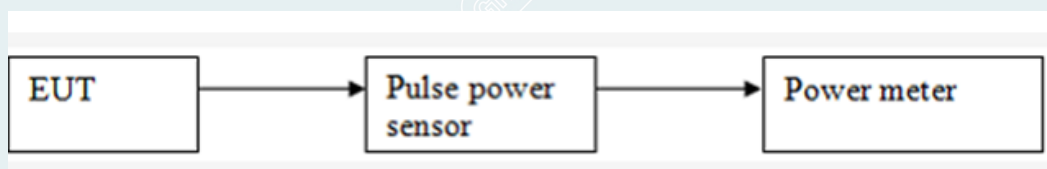
8.1 LIMITS

The maximum Peak output power measurement is 1W

8.2 TEST PROCEDURES

- 1) RF output of EUT was connected to the broadband peak RF power meter by RF cable. The path loss was compensated to the results for each measurement.
- 2) Set to the maximum power setting and enable the EUT transmit continuously.
- 3) Measure the conducted output power and record the results in the test report.

8.3 TEST SETUP



8.4 TEST RESULTS

Environment: 23.1°C/53%RH

Tested By: Deng Weihao

Voltage: AC 120V/60Hz

Date: 2022-03-23

BLE_1M

Channel	Frequency (MHz)	Measured Channel Power (dBm)	Limit	Peak/Average	Result
Lowest	2402	3.91	1W (30dBm)	Peak	Pass
Middle	2440	4.56			Pass
Highest	2480	4.08			Pass

BLE_2M

Channel	Frequency (MHz)	Measured Channel Power (dBm)	Limit	Peak/Average	Result
Lowest	2402	3.96	1W (30dBm)	Peak	Pass
Middle	2440	4.62			Pass
Highest	2480	4.12			Pass

9. POWER SPECTRAL DENSITY

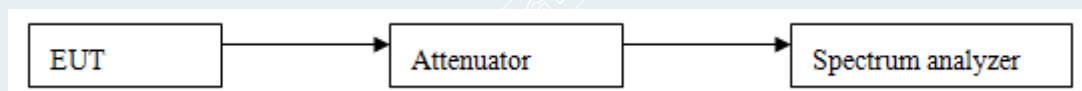
9.1 LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

9.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3) Set the analyzer span to 1.5 times the DTS bandwidth. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. Set the VBW $\geq [3 \times \text{RBW}]$. Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize. Use the peak marker function to determine the maximum amplitude level within the RBW. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
- 4) Repeat above procedures until all frequencies measured were complete.

9.3 TEST SETUP



9.4 TEST RESULTS

Environment: 23.1°C/53%RH
 Tested By: Deng Weihao

Voltage: AC 120V/60Hz
 Date: 2022-03-23

BLE_1M

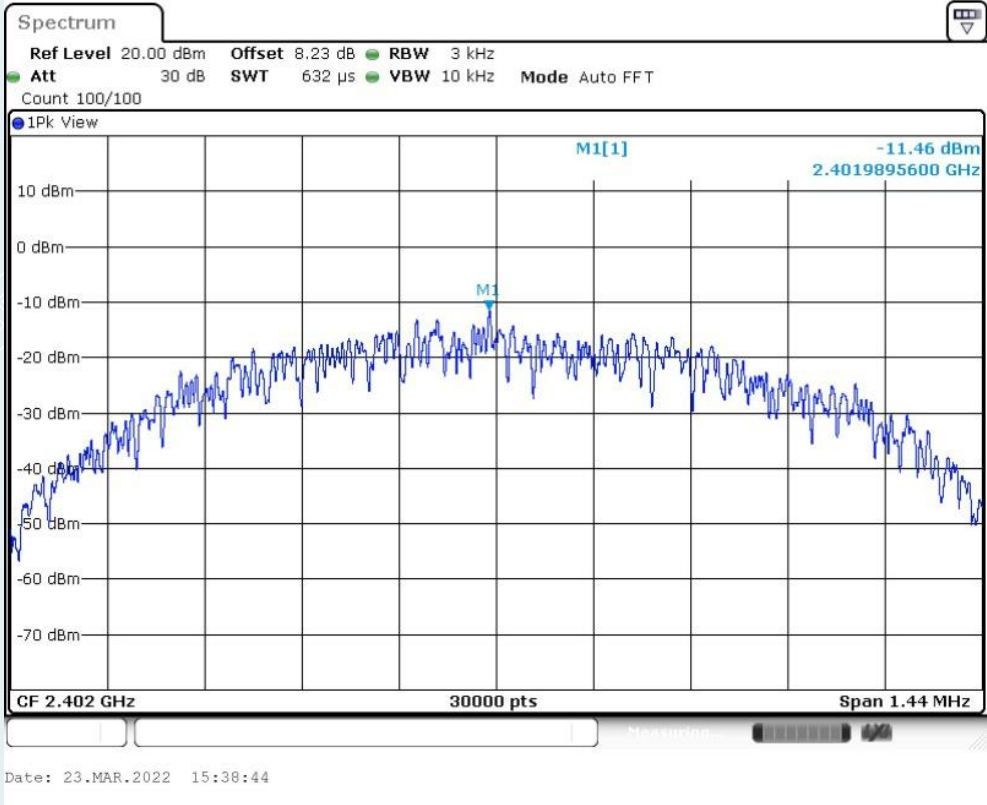
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
Lowest	2402	-11.46	8.00	PASS
Middle	2440	-10.46		PASS
Highest	2480	-11.02		PASS

BLE_2M

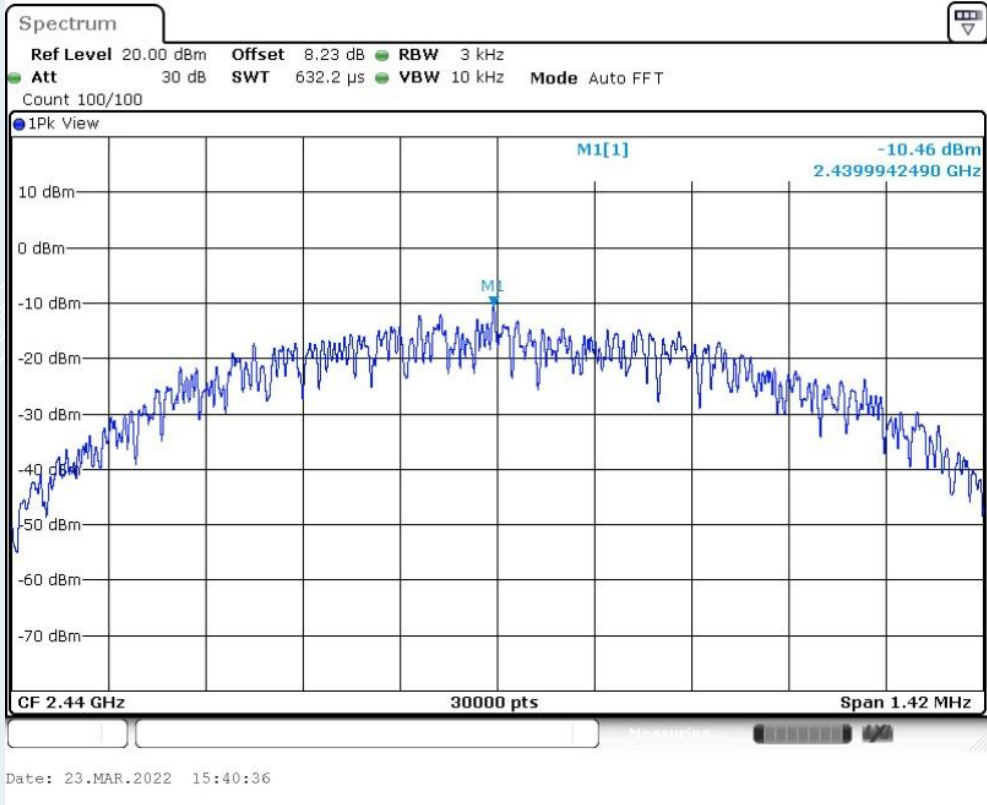
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
Lowest	2402	-14.62	8.00	PASS
Middle	2440	-13.63		PASS
Highest	2480	-14.14		PASS

BLE_1M

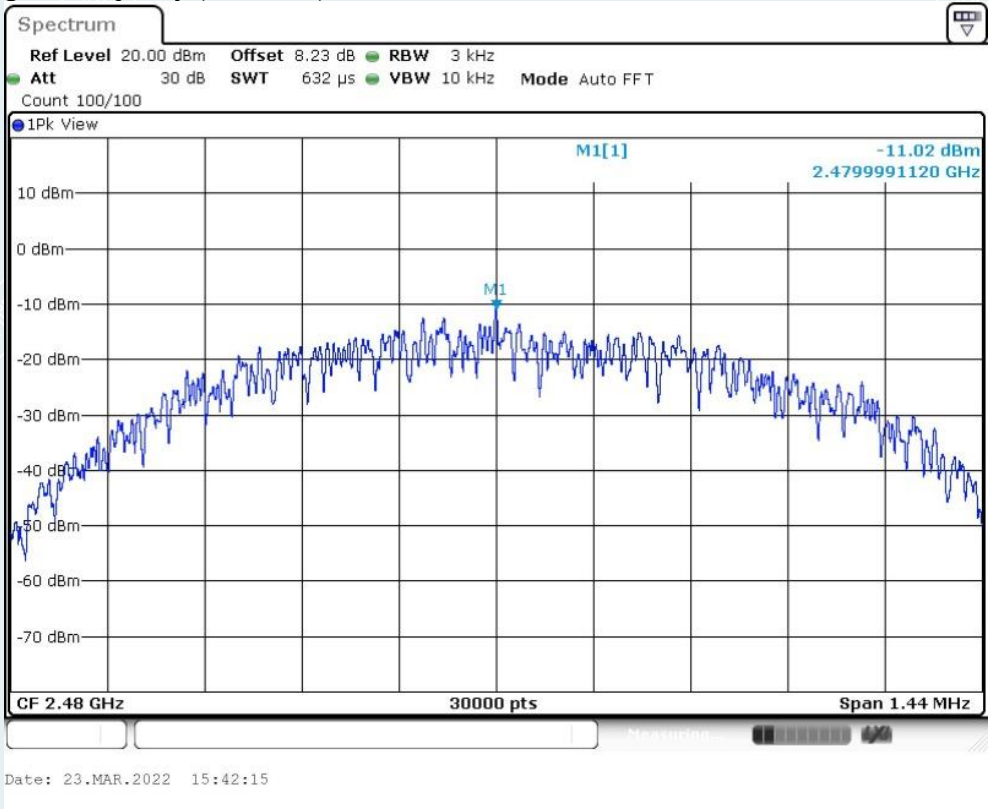
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



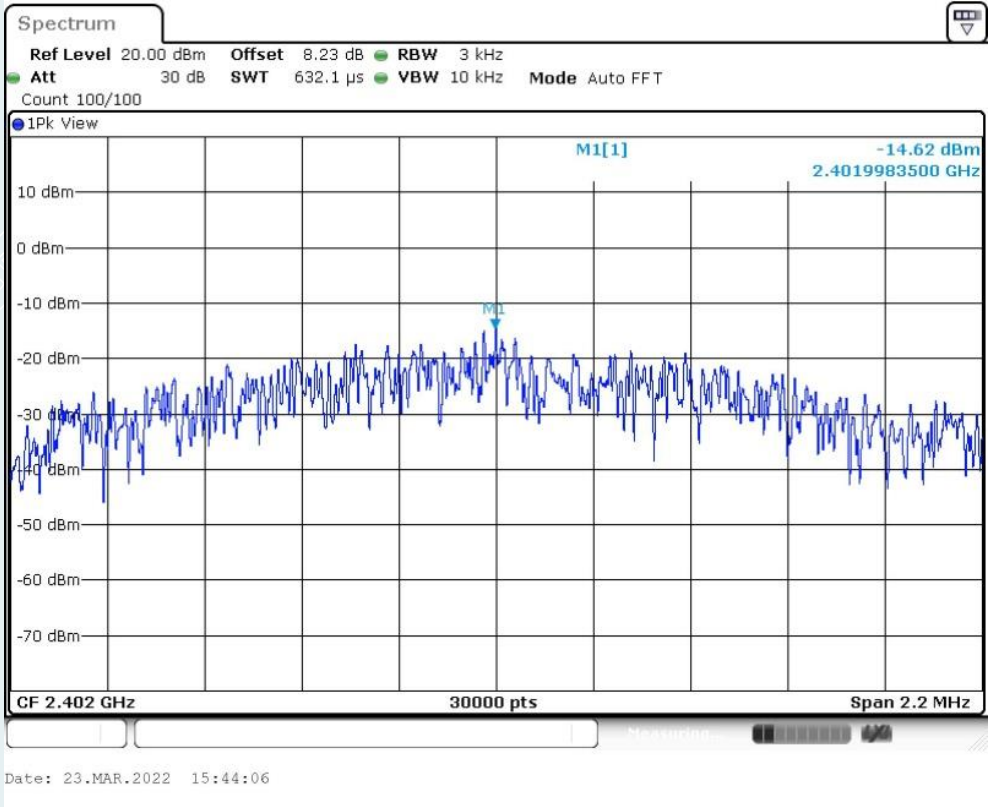
Highest Frequency (2480MHz)



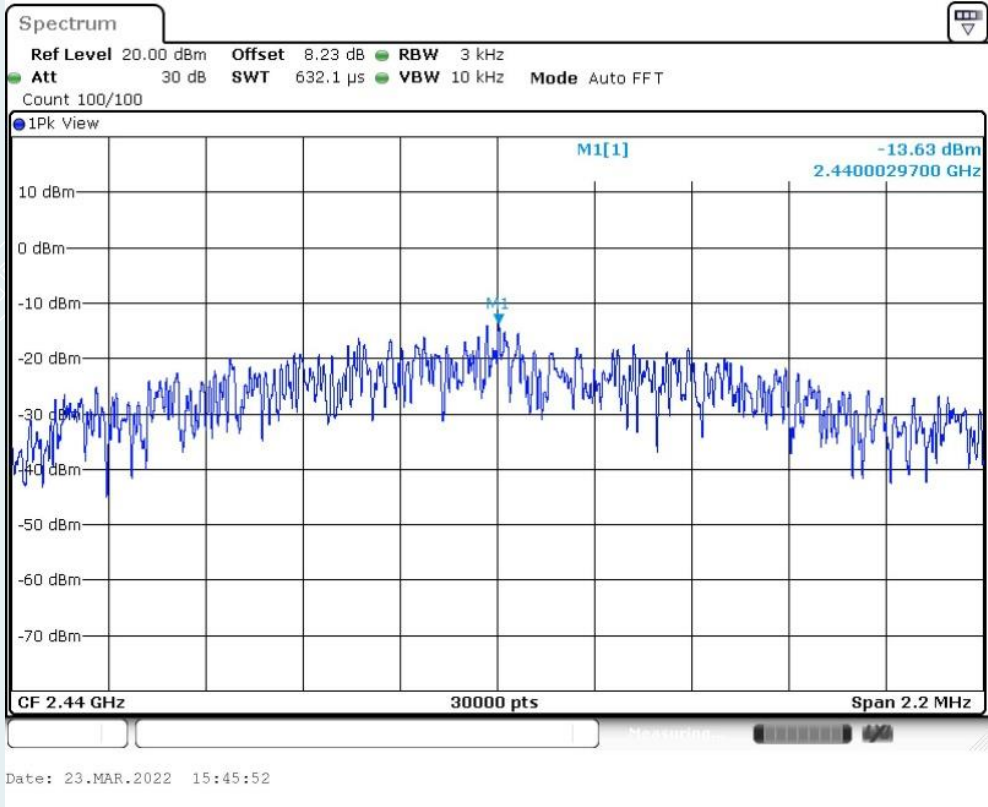
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BLE_2M

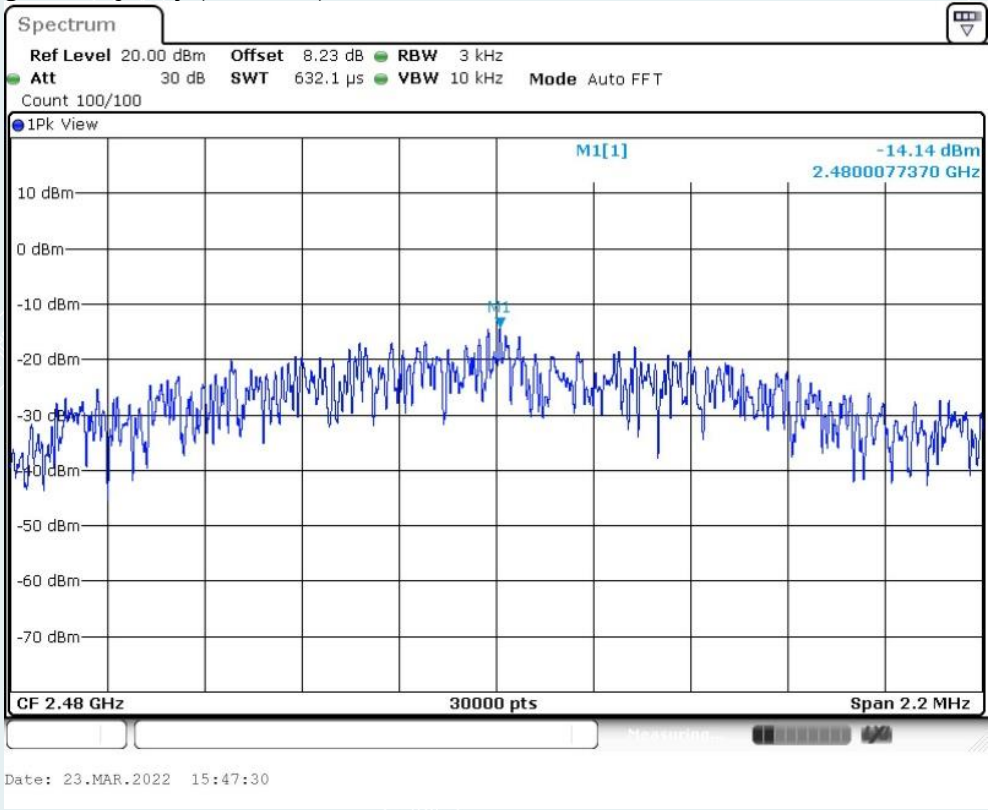
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



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10. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

10.1 LIMITS

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 conducted power limits. If the transmitter complies with the conducted 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.

10.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 15.247 measurement guidance v05r02.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

- 1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW =100kHz; VBW =300kHz, Frequency range = 30MHz to 26.5GHz; Sweep = auto; Detector Function = Peak. Trace = Max, hold.
- 3) Measure and record the results in the test report.
- 4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

10.3 TEST SETUP



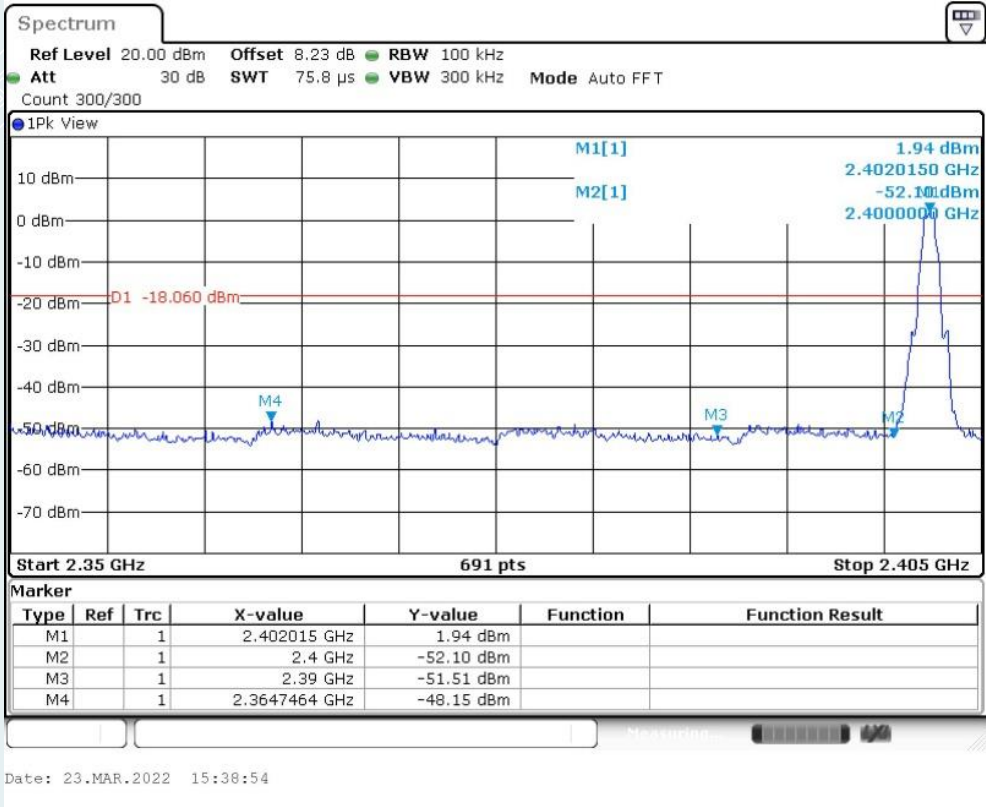
10.4 TEST RESULTS

Environment: 23.1℃/53%RH
Tested By: Deng Weihao

Voltage: AC 120V/60Hz
Date: 2022-03-23

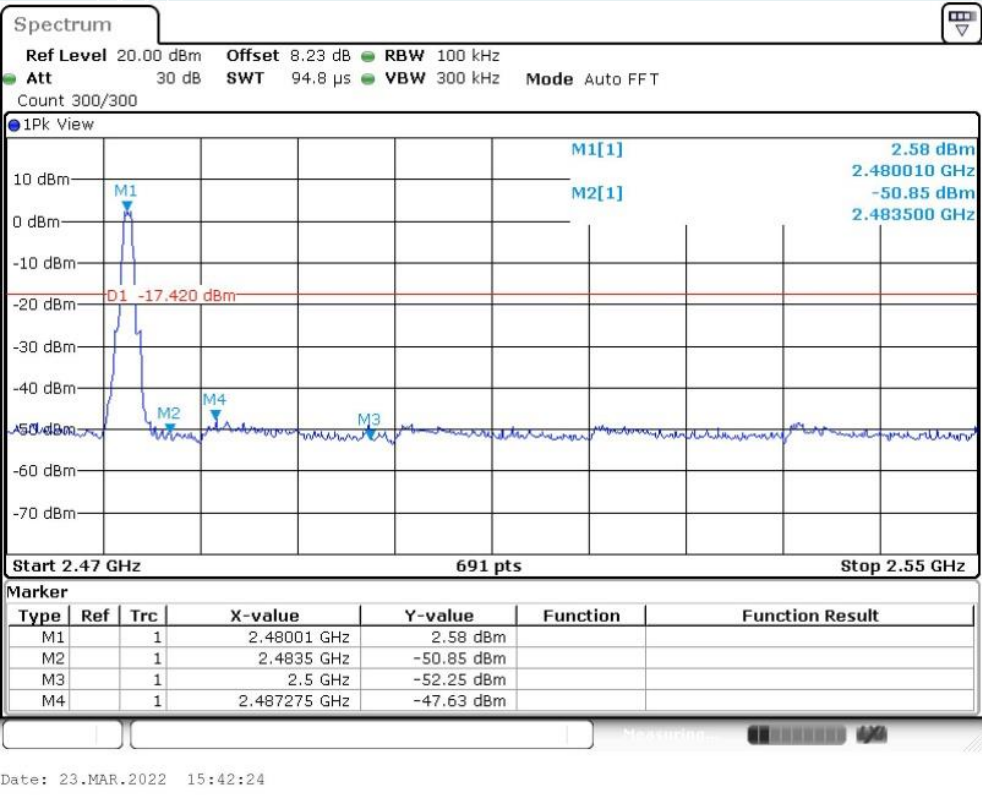
BLE_1M

Lowest Frequency (2402MHz)
2.35GHz-2.405GHz

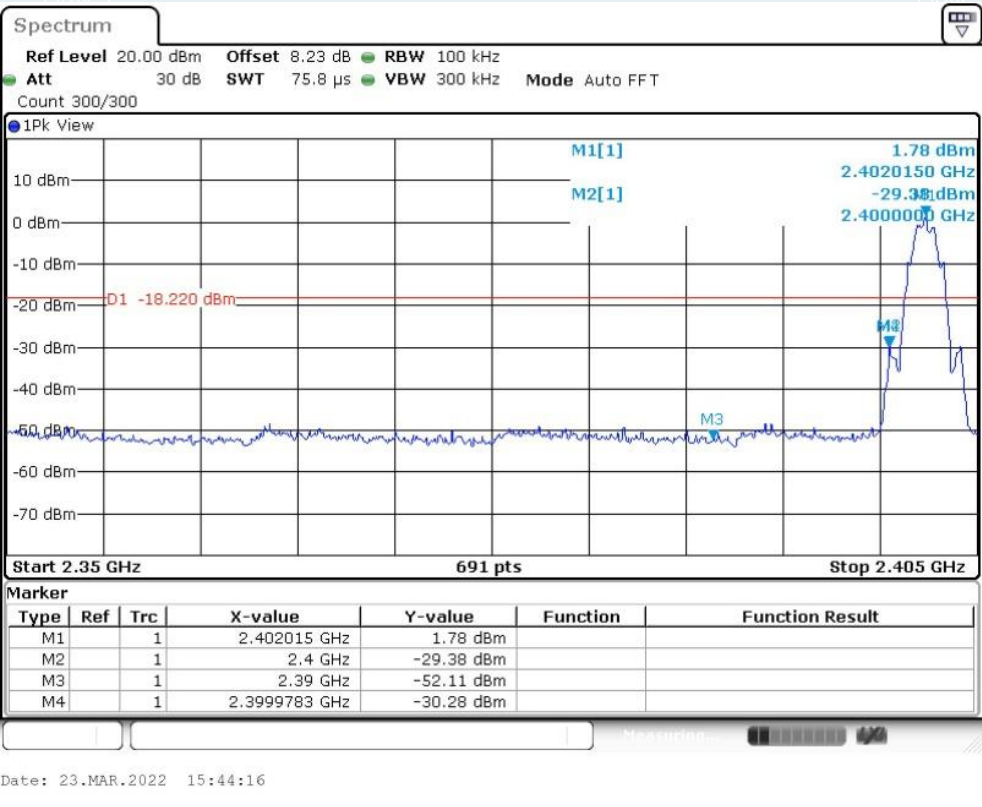


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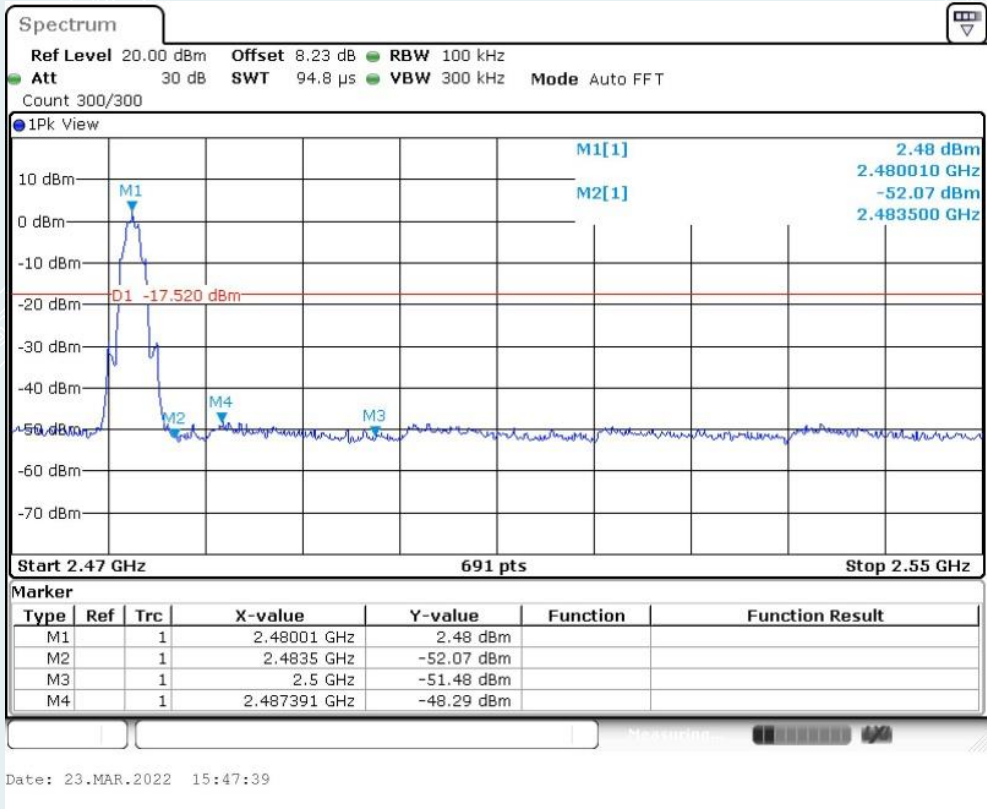
Highest Frequency (2480MHz)
2.47GHz-2.55GHz



BLE_2M
Lowest Frequency (2402MHz)
2.35GHz-2.405GHz



Highest Frequency (2480MHz)
2.47GHz-2.55GHz

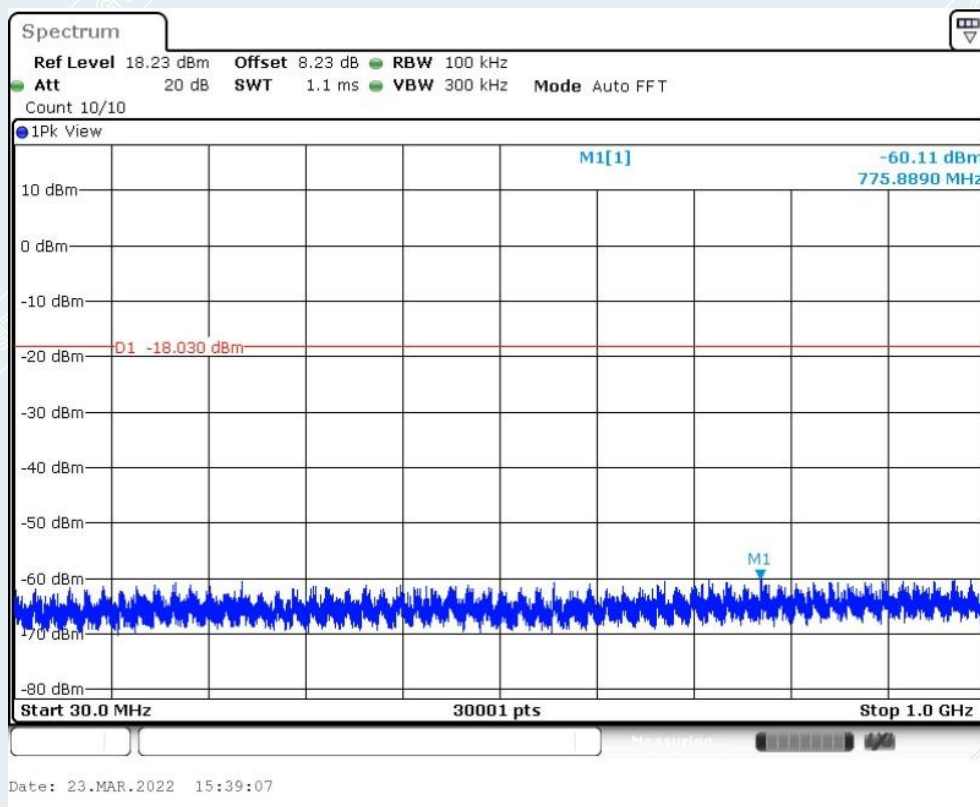


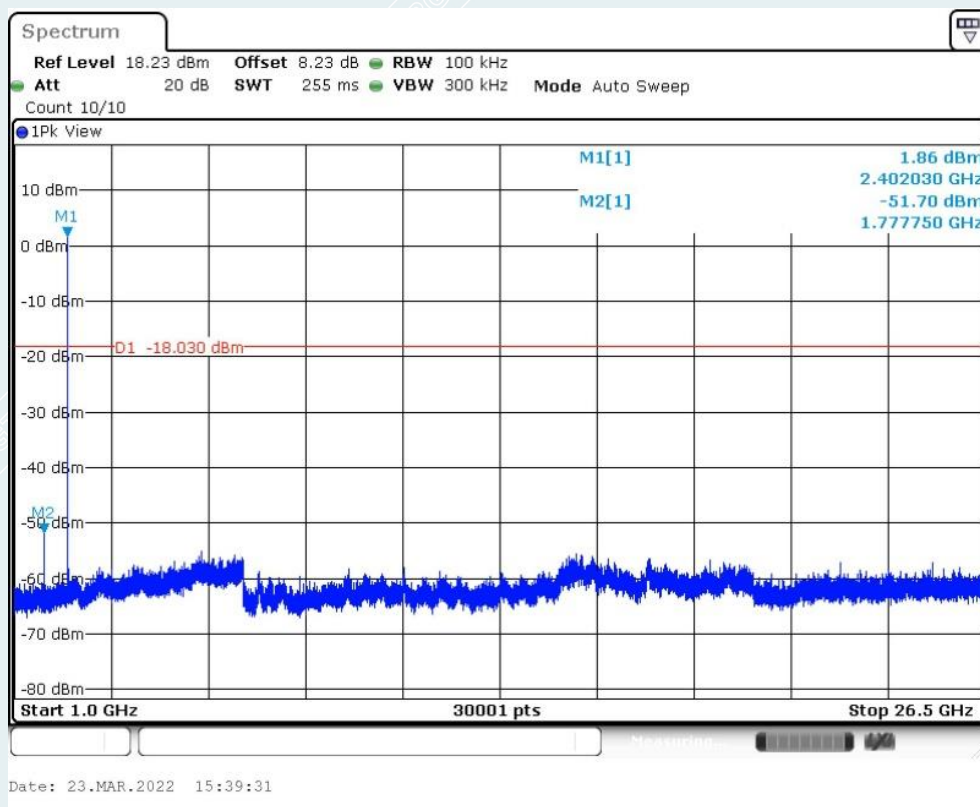
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Conducted Spurious Emission

BLE_1M

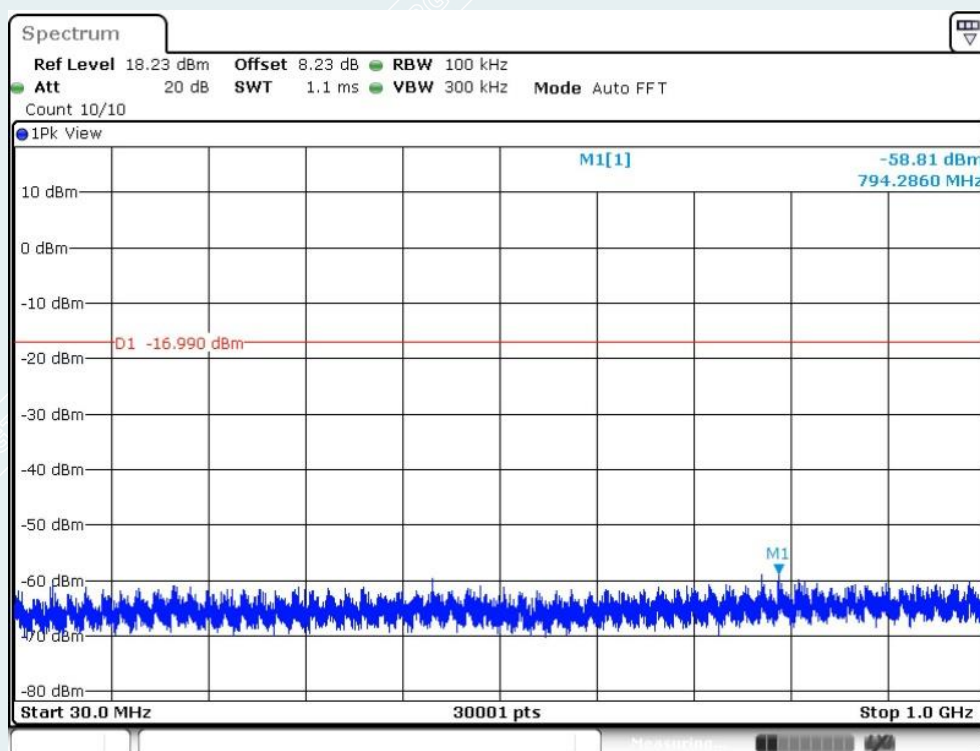
Lowest Frequency (2402MHz)



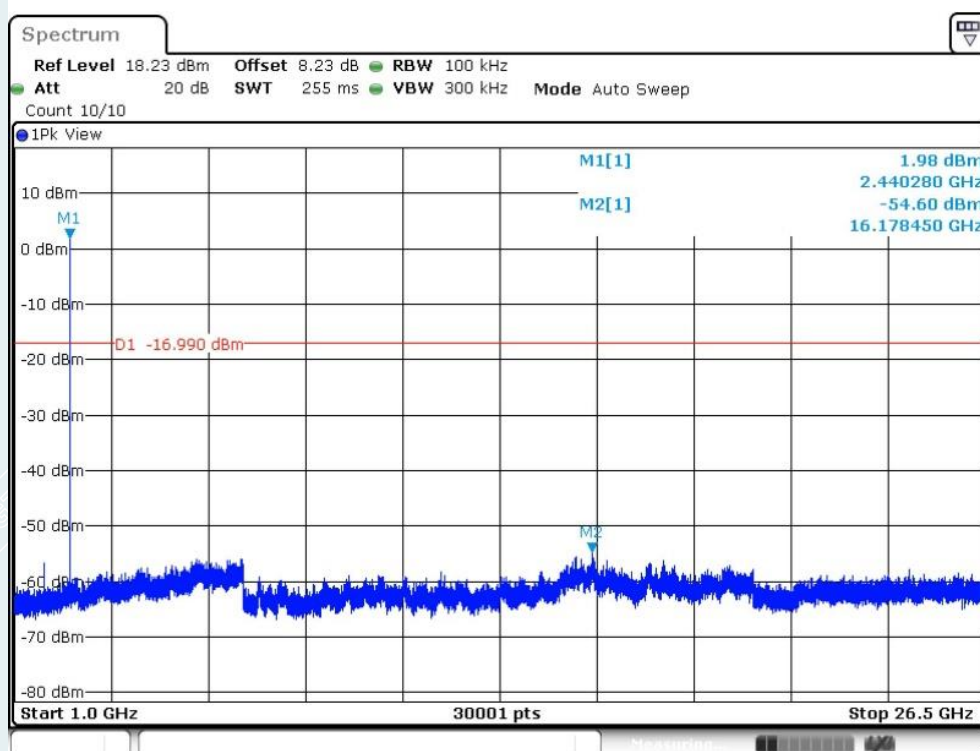


Middle Frequency (2440MHz)



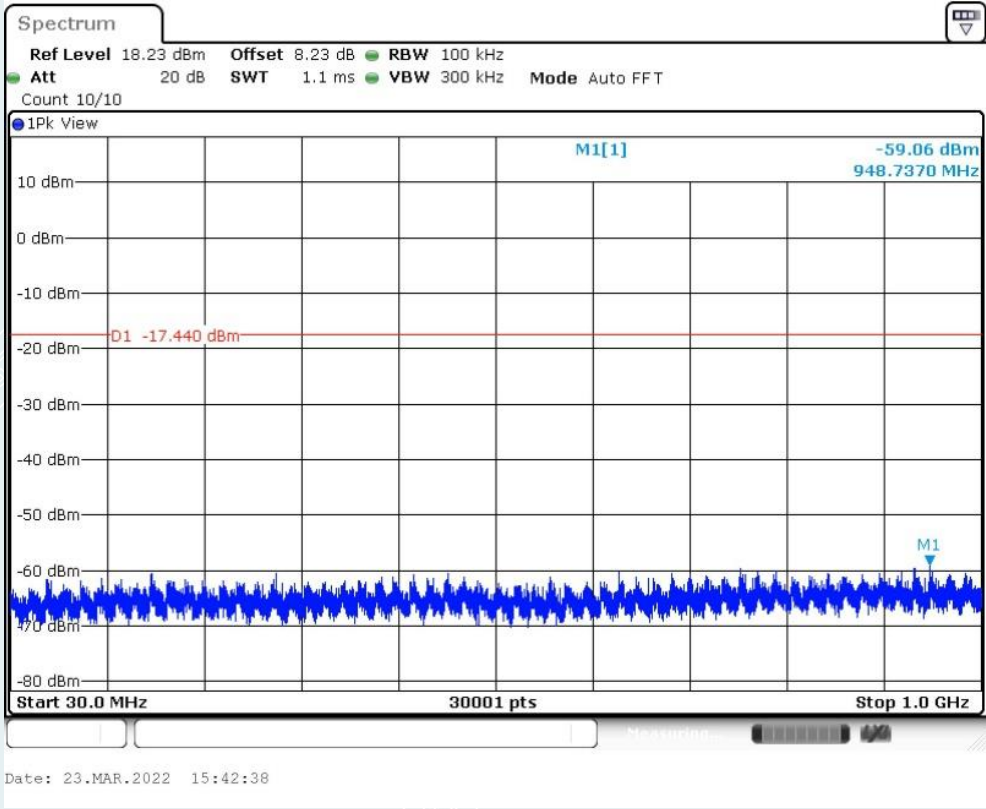


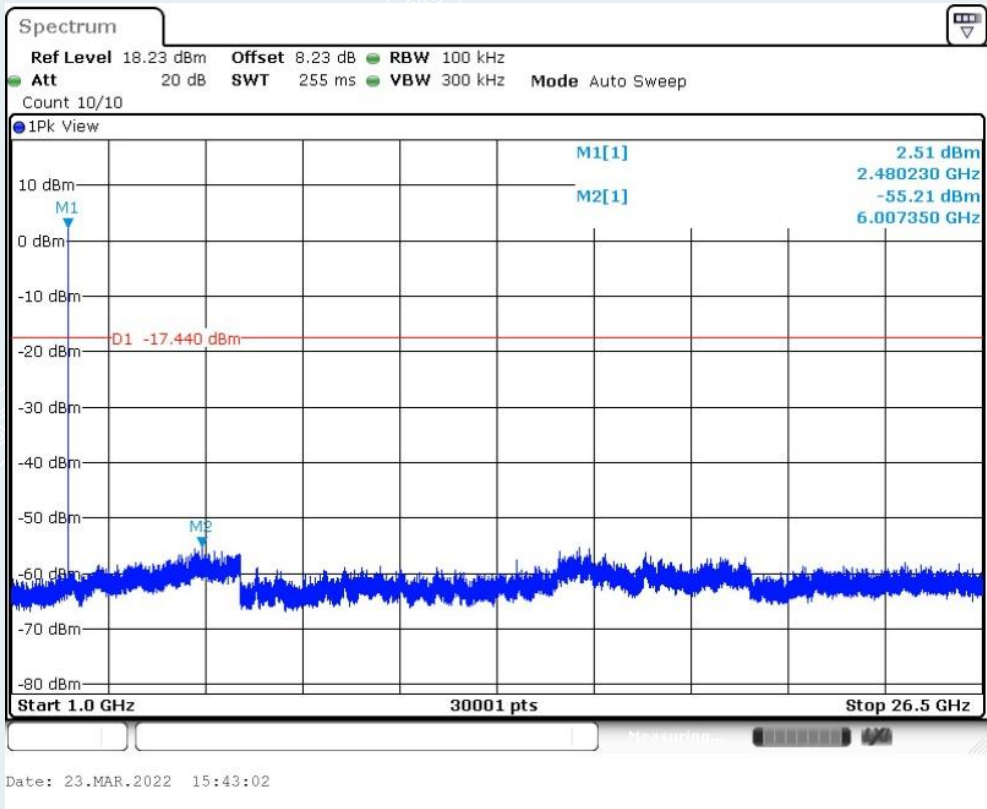
Date: 23.MAR.2022 15:40:49



Date: 23.MAR.2022 15:41:13

Highest Frequency (2480MHz)

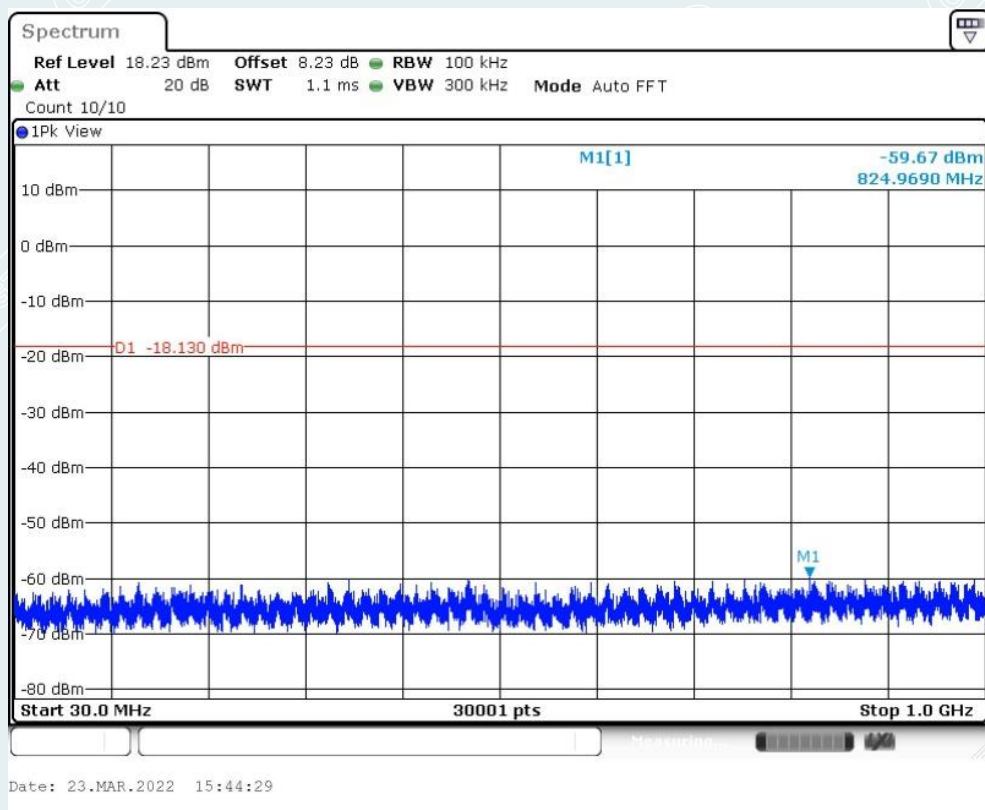
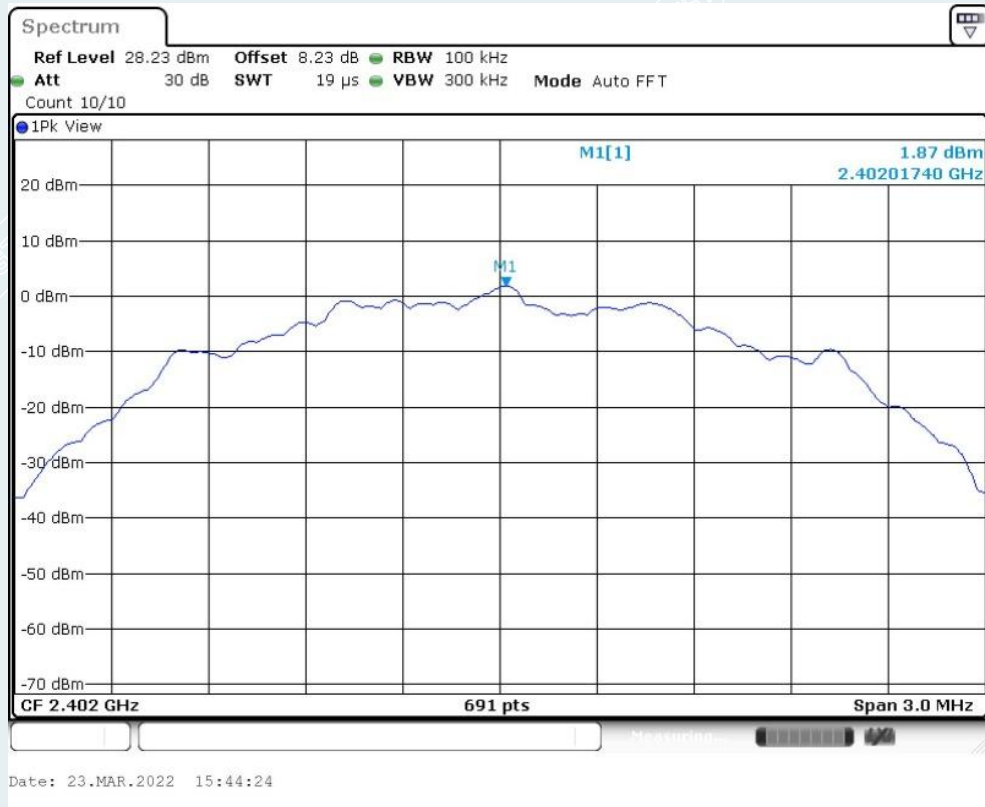


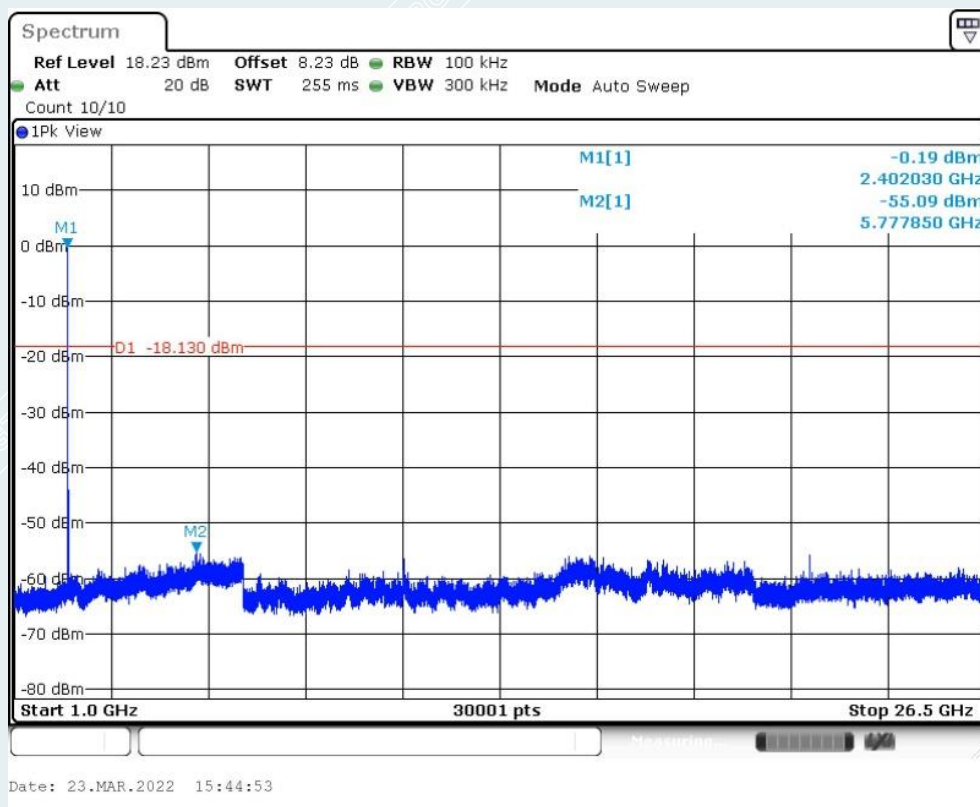


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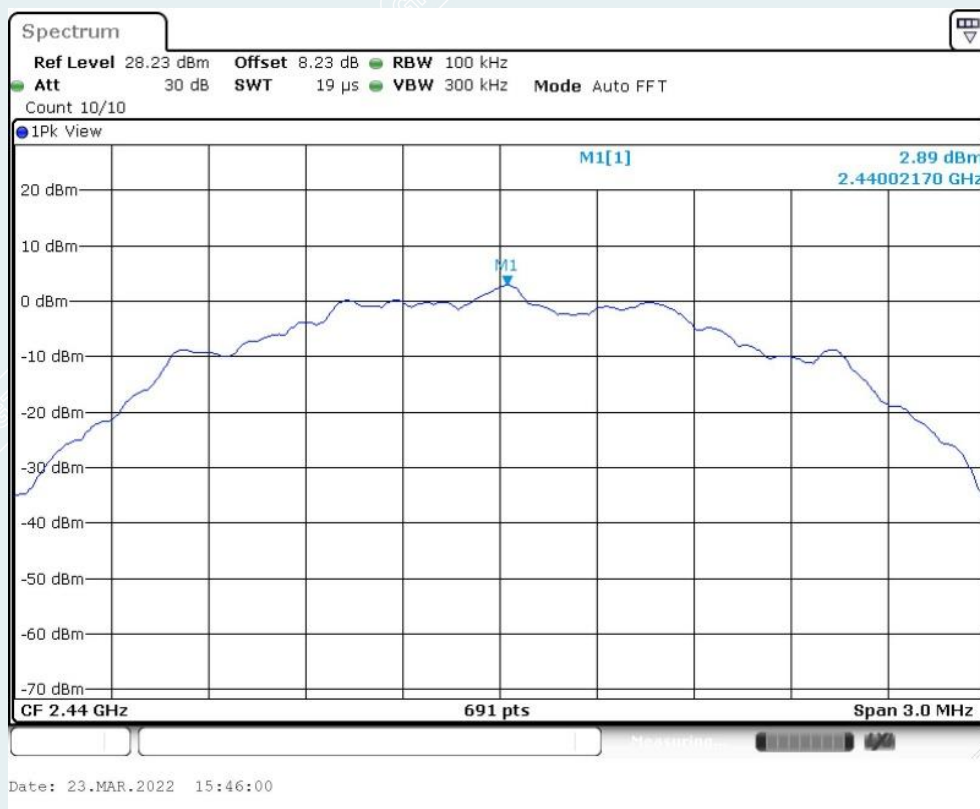
BLE_2M

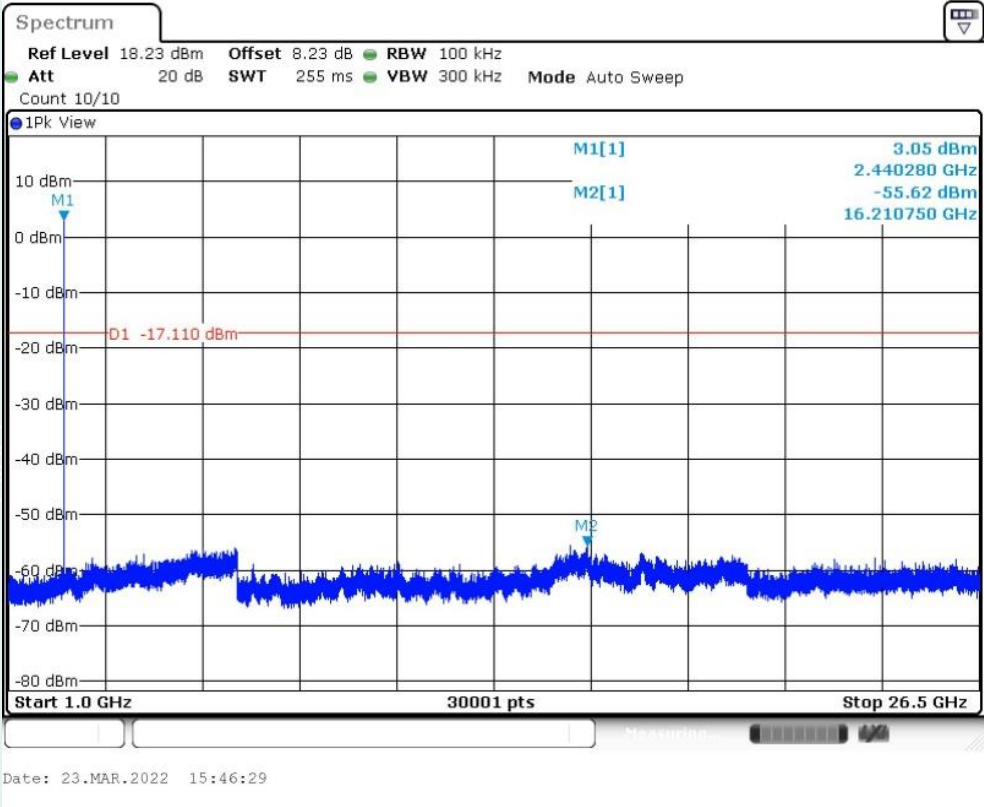
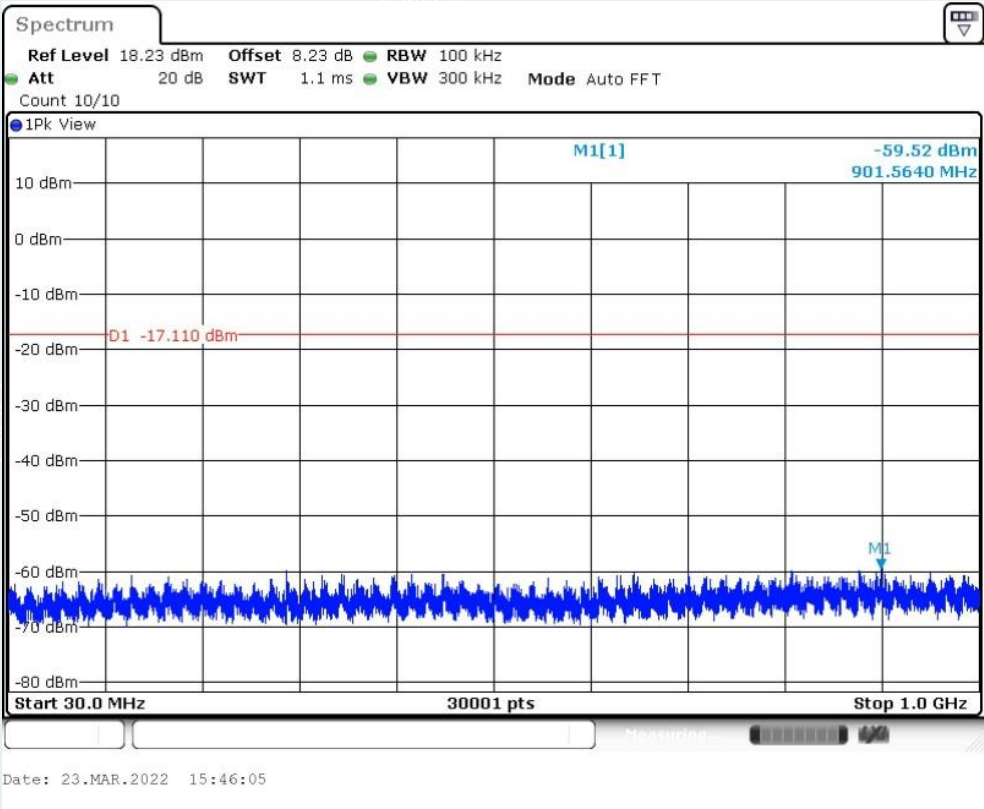
Lowest Frequency (2402MHz)



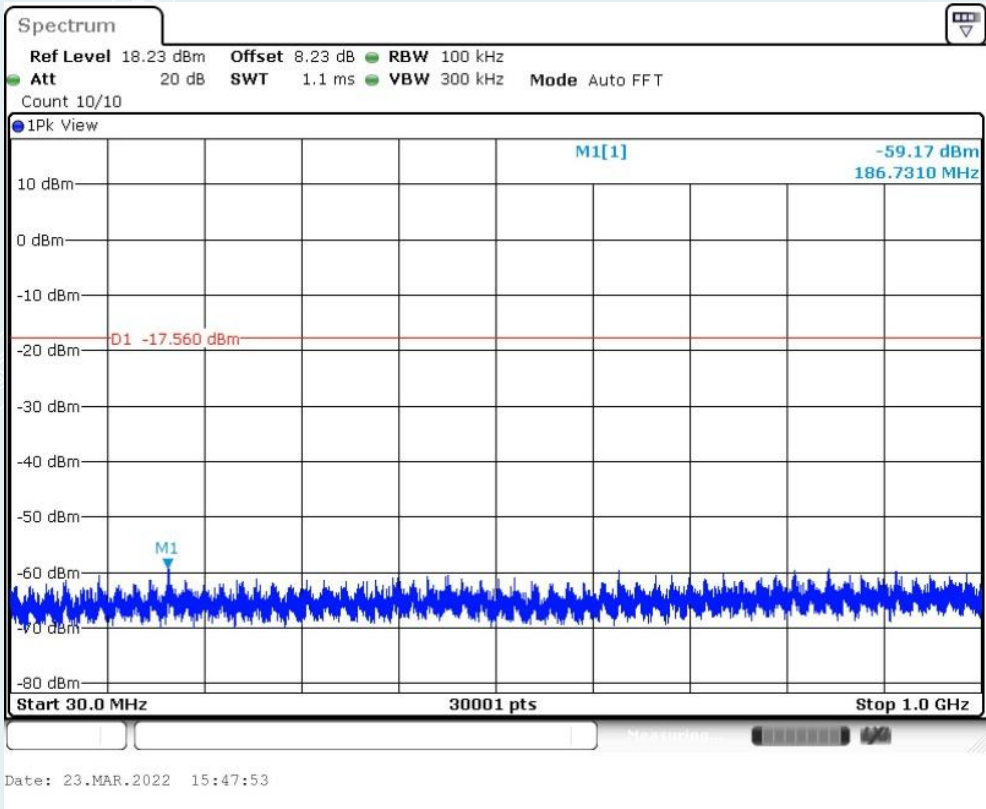
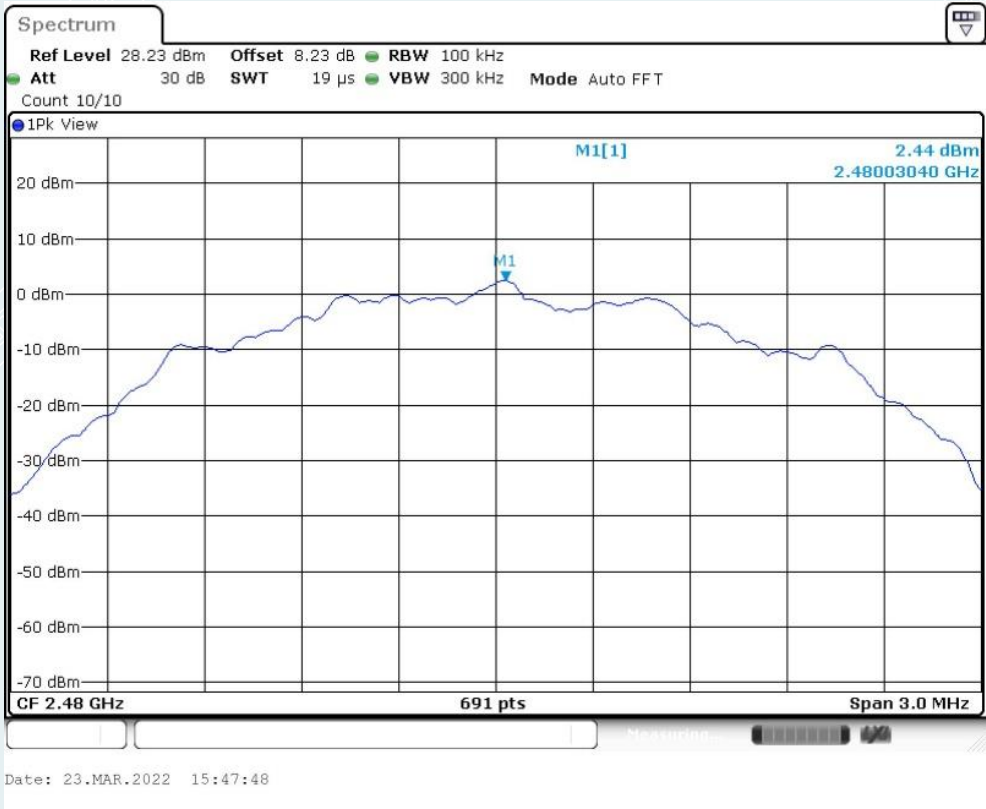


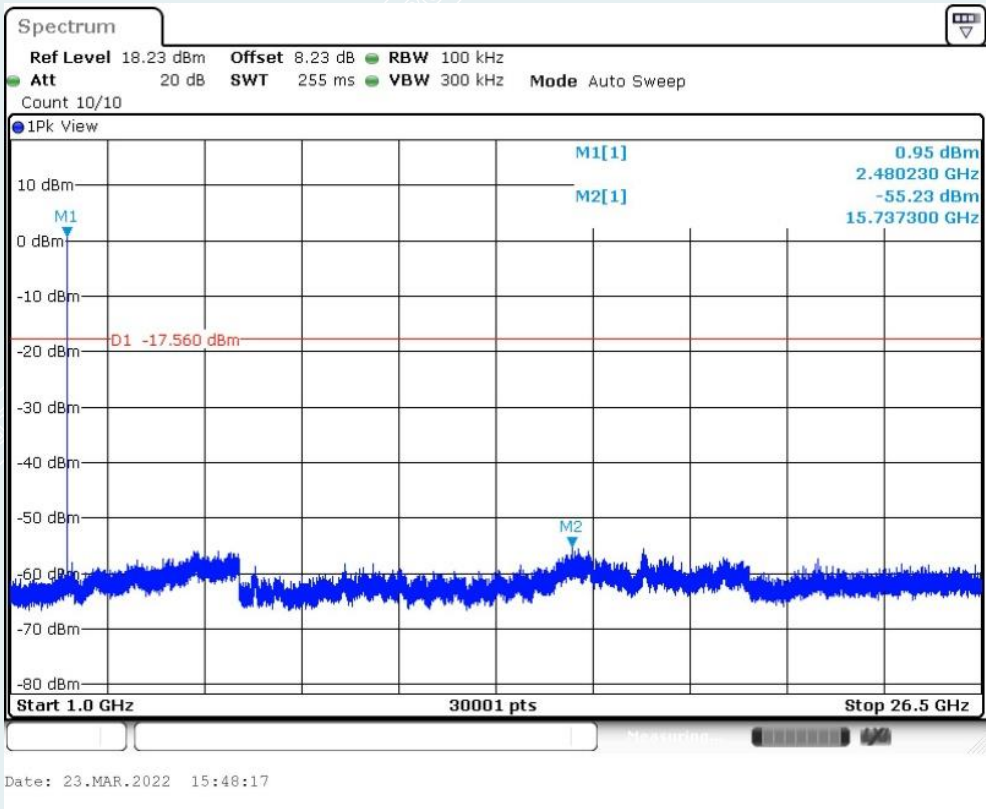
Middle Frequency (2440MHz)





Highest Frequency (2480MHz)





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11. RESTRICTED BANDS OF OPERATION

11.1 LIMITS

Section 15.247(d) In addition, Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

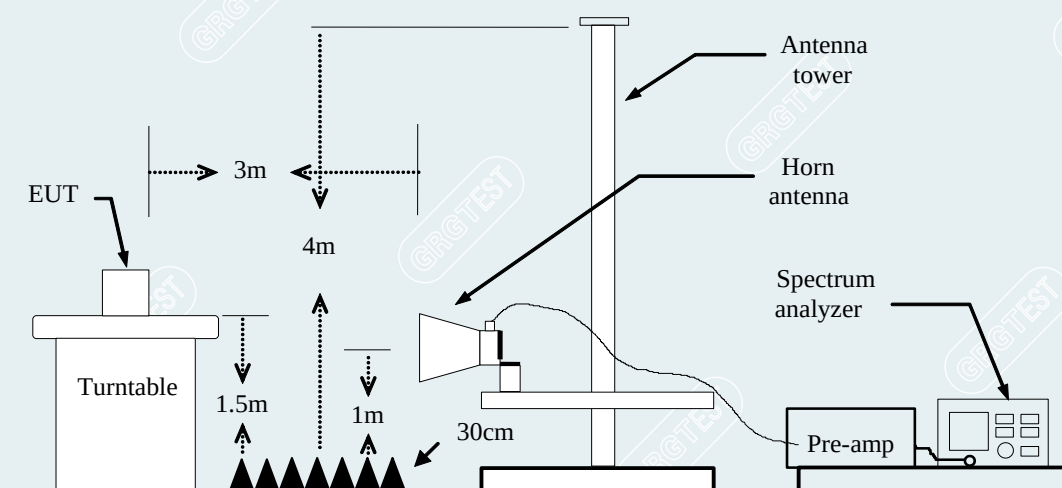
Frequency (MHz)	Quasi-peak(μ V/m)	Measurement distance(m)	Quasi-peak(dB μ V/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

11.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 15.247 measurement guidance v05r02.

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO
 - b) AVERAGE: Set RBW=1MHz, if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW $\leq RBW/100$ (i.e., 10kHz) but not less than 10Hz, Where duty cycle is defined in section 2.9.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

11.3 TEST SETUP



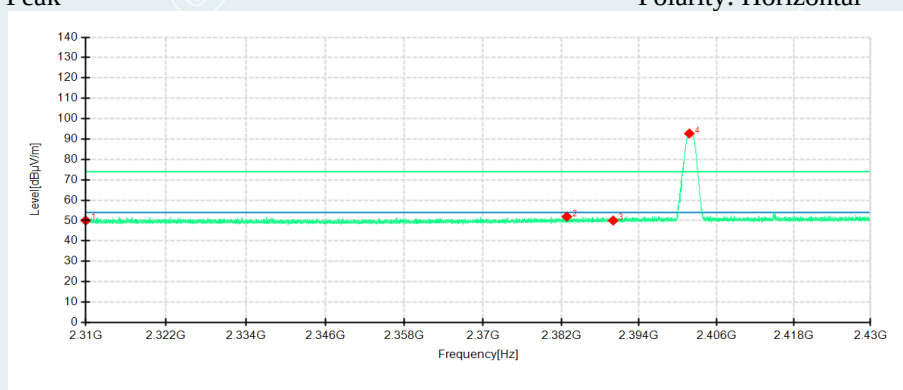
----- The following blanks -----

11.4 TEST RESULTS

Equipment:	Tablet	Test Date	2022-01-15
Model No.:	UCTB-27	Test Engineer:	Lu Qiang
Test Voltage:	AC 120V/60Hz	Environment:	25°C/60%RH

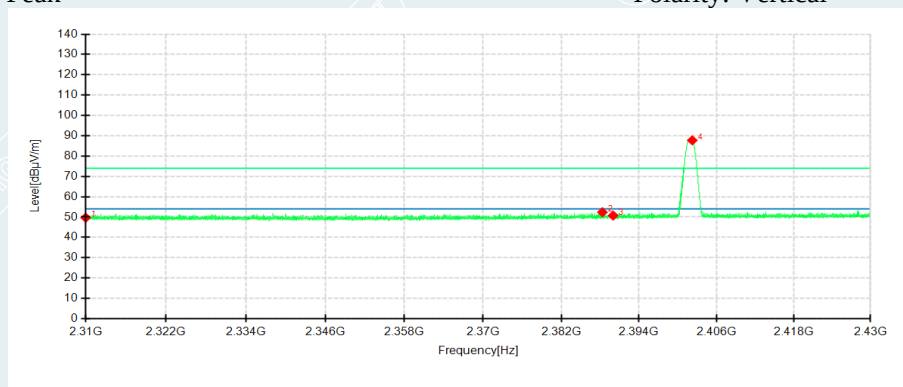
TX/BLE 1M
Lowest Frequency
Frequency 2402MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

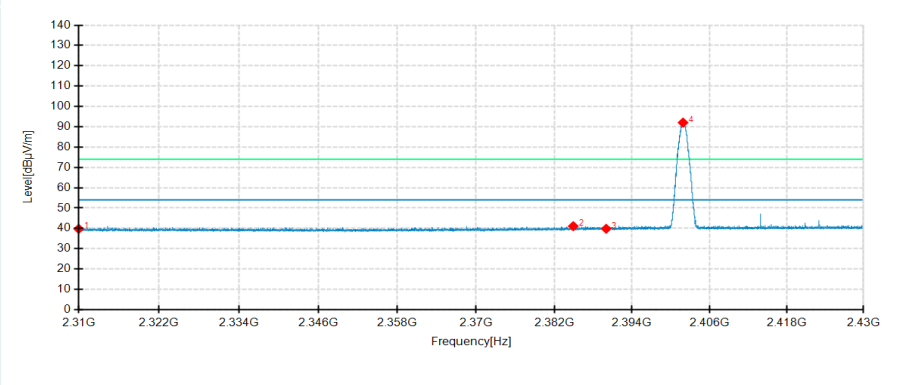
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	46.55	50.03	3.48	74.00	23.97	200	218	Horizontal	/
2	2382.8640	48.22	51.91	3.69	74.00	22.09	200	156	Horizontal	/
3	2390.0000	46.20	50.01	3.81	74.00	23.99	200	218	Horizontal	/
4	2401.7760	88.74	92.73	3.99	74.00	-18.73	200	7	Horizontal	No limit
1	2310.0000	46.21	49.69	3.48	74.00	24.31	100	94	Vertical	/
2	2388.3360	48.59	52.37	3.78	74.00	21.63	100	218	Vertical	/
3	2390.0000	46.91	50.72	3.81	74.00	23.28	200	340	Vertical	/
4	2402.2320	83.75	87.74	3.99	74.00	-13.74	200	142	Vertical	No limit

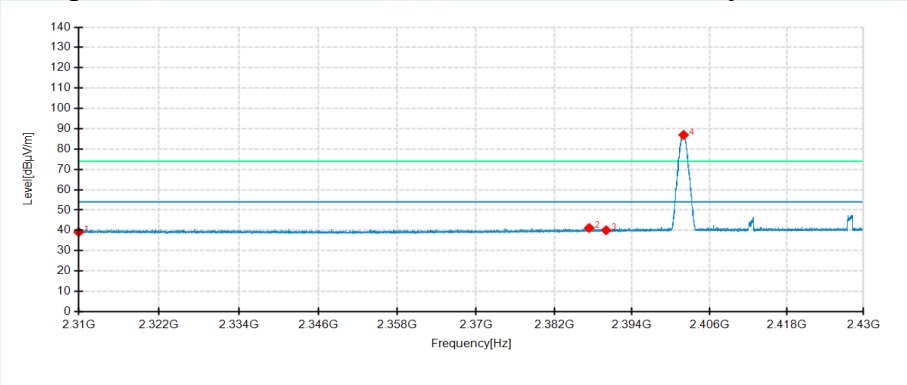
Lowest Frequency
Frequency 2402MHz
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

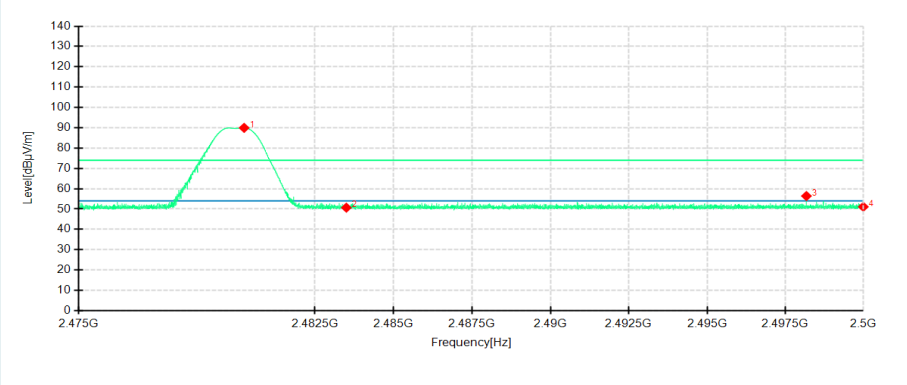
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	36.26	39.74	3.48	54.00	14.26	100	142	Horizontal	/
2	2384.9280	37.36	41.08	3.72	54.00	12.92	200	204	Horizontal	/
3	2390.0000	35.99	39.80	3.81	54.00	14.20	200	218	Horizontal	/
4	2401.8840	88.04	92.03	3.99	54.00	-38.03	200	4	Horizontal	No limit
1	2310.0000	35.65	39.13	3.48	54.00	14.87	200	265	Vertical	/
2	2387.3880	37.40	41.17	3.77	54.00	12.83	200	142	Vertical	/
3	2390.0000	36.25	40.06	3.81	54.00	13.94	100	33	Vertical	/
4	2401.9800	82.97	86.96	3.99	54.00	-32.96	200	142	Vertical	No limit

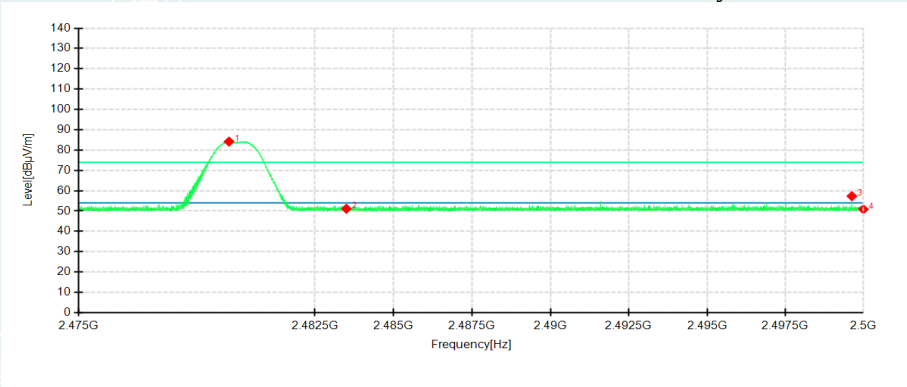
Highest Frequency
Frequency 2480MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



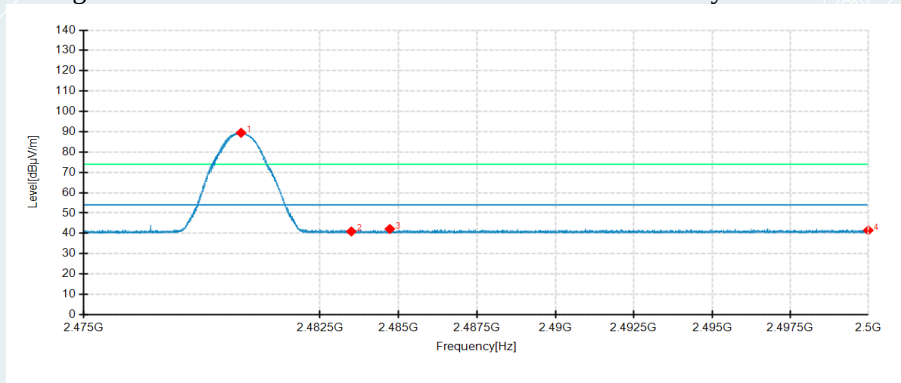
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2480.2500	85.62	89.94	4.32	74.00	-15.94	200	0	Horizontal	No limit
2	2483.5000	46.35	50.68	4.33	74.00	23.32	200	218	Horizontal	/
3	2498.1775	52.03	56.40	4.37	74.00	17.60	100	142	Horizontal	/
4	2500.0000	46.72	51.10	4.38	74.00	22.90	200	174	Horizontal	/
1	2479.7725	79.84	84.16	4.32	74.00	-10.16	200	142	Vertical	No limit
2	2483.5000	46.78	51.11	4.33	74.00	22.89	200	320	Vertical	/
3	2499.6325	52.94	57.32	4.38	74.00	16.68	100	218	Vertical	/
4	2500.0000	46.49	50.87	4.38	74.00	23.13	100	218	Vertical	/

Highest Frequency

Frequency 2480MHz

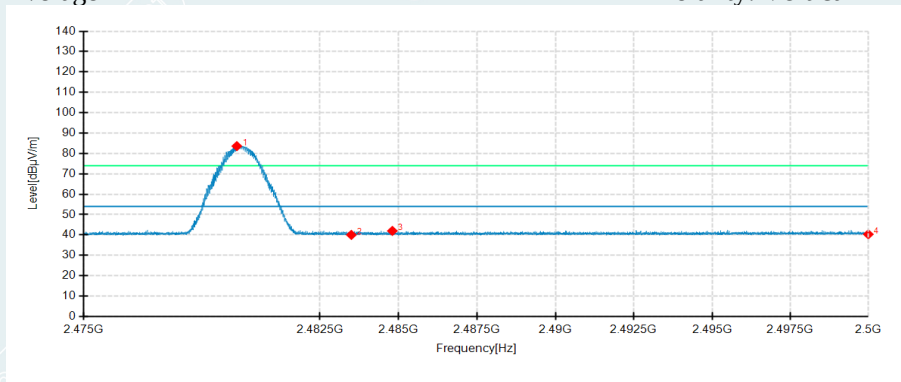
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

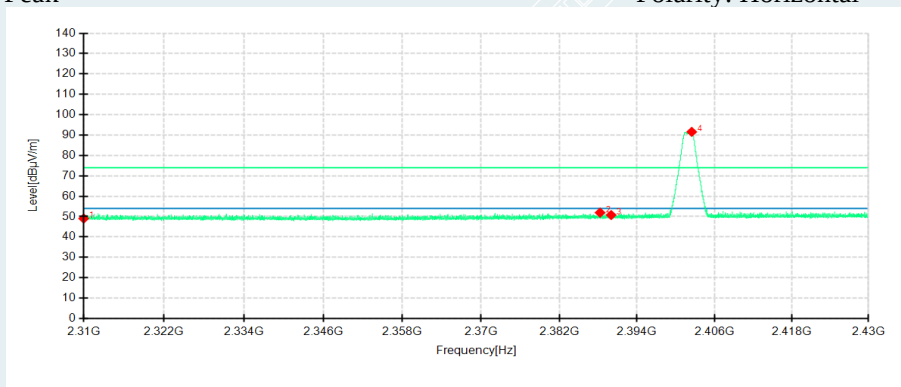


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.9950	85.14	89.46	4.32	54.00	-35.46	200	0	Horizontal	No limit
2	2483.5000	36.61	40.94	4.33	54.00	13.06	200	136	Horizontal	/
3	2484.7250	37.84	42.17	4.33	54.00	11.83	100	293	Horizontal	/
4	2500.0000	37.11	41.49	4.38	54.00	12.51	200	218	Horizontal	/
1	2479.8600	79.28	83.60	4.32	54.00	-29.60	200	142	Vertical	No limit
2	2483.5000	35.70	40.03	4.33	54.00	13.97	100	211	Vertical	/
3	2484.8050	37.65	41.98	4.33	54.00	12.02	200	169	Vertical	/
4	2500.0000	35.94	40.32	4.38	54.00	13.68	100	109	Vertical	/

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

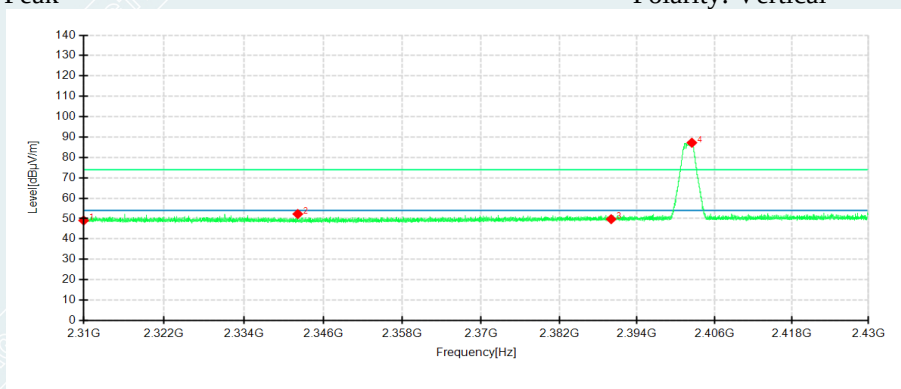
TX/BLE 2M
 Lowest Frequency
 Frequency 2402MHz
 Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

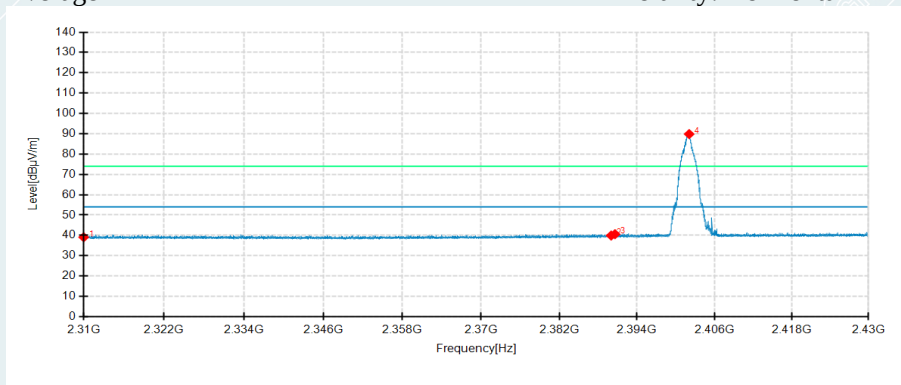
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	45.56	49.04	3.48	74.00	24.96	200	142	Horizontal	/
2	2388.2880	48.15	51.93	3.78	74.00	22.07	200	359	Horizontal	/
3	2390.0000	46.94	50.75	3.81	74.00	23.25	200	177	Horizontal	
4	2402.4600	87.58	91.57	3.99	74.00	-17.57	100	4	Horizontal	No limit
1	2310.0000	45.60	49.08	3.48	74.00	24.92	200	12	Vertical	/
2	2342.1480	49.03	52.23	3.20	74.00	21.77	100	360	Vertical	/
3	2390.0000	45.90	49.71	3.81	74.00	24.29	200	169	Vertical	
4	2402.4840	83.23	87.22	3.99	74.00	-13.22	200	39	Vertical	No limit

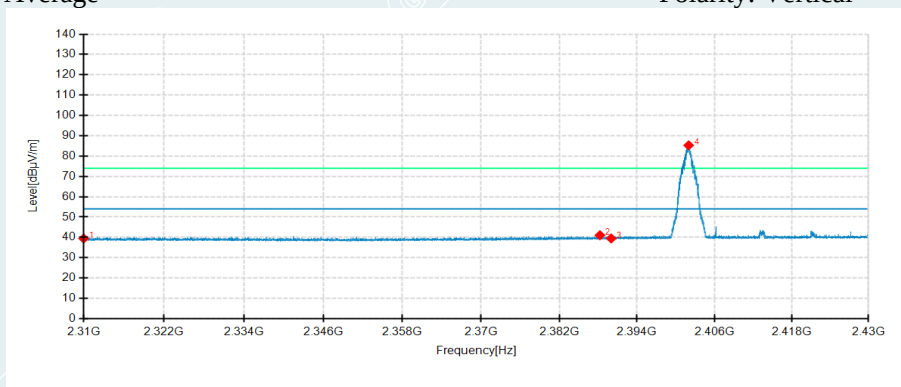
Lowest Frequency
Frequency 2402MHz
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

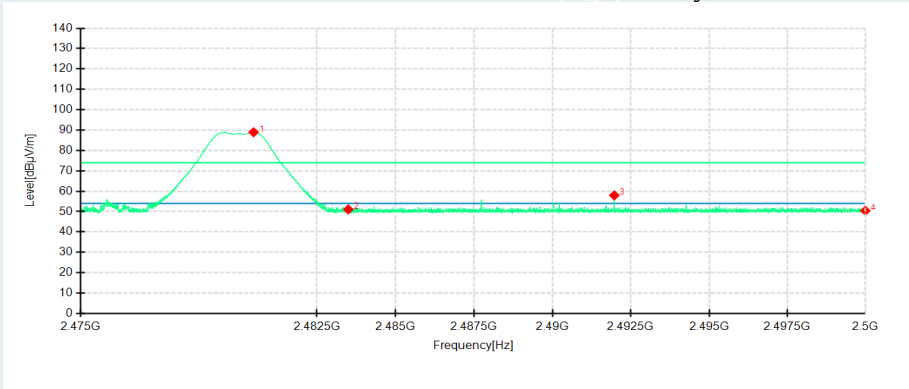
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	35.60	39.08	3.48	54.00	14.92	100	61	Horizontal	/
2	2390.0000	36.10	39.91	3.81	54.00	14.09	100	109	Horizontal	/
3	2390.5920	36.77	40.59	3.82	54.00	13.41	200	225	Horizontal	/
4	2402.0640	85.86	89.85	3.99	54.00	-35.85	100	3	Horizontal	No limit
1	2310.0000	35.97	39.45	3.48	54.00	14.55	200	218	Vertical	/
2	2388.2640	37.26	41.04	3.78	54.00	12.96	100	176	Vertical	/
3	2390.0000	35.67	39.48	3.81	54.00	14.52	100	217	Vertical	/
4	2401.9800	81.30	85.29	3.99	54.00	-31.29	200	34	Vertical	No limit

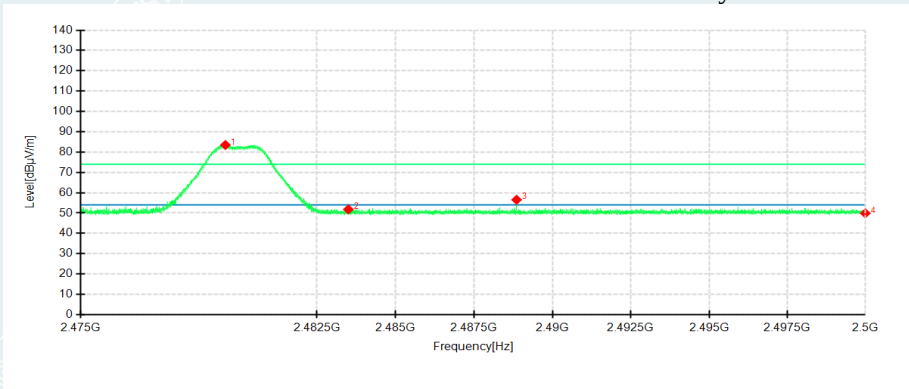
Highest Frequency
Frequency 2480MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

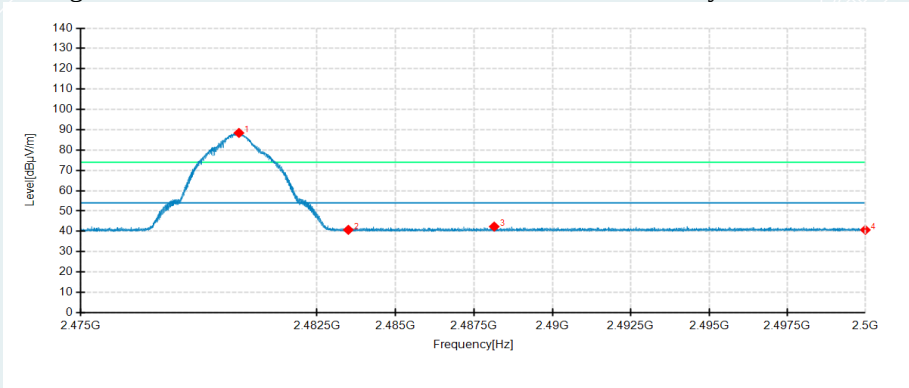
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2480.4875	84.61	88.93	4.32	74.00	-14.93	200	360	Horizontal	No limit
2	2483.5000	46.74	51.07	4.33	74.00	22.93	100	68	Horizontal	/
3	2491.9750	53.59	57.95	4.36	74.00	16.05	100	81	Horizontal	/
4	2500.0000	46.03	50.41	4.38	74.00	23.59	200	142	Horizontal	/
1	2479.5925	79.14	83.46	4.32	74.00	-9.46	200	41	Vertical	No limit
2	2483.5000	47.45	51.78	4.33	74.00	22.22	200	218	Vertical	/
3	2488.8575	52.18	56.53	4.35	74.00	17.47	200	218	Vertical	/
4	2500.0000	45.50	49.88	4.38	74.00	24.12	200	109	Vertical	/

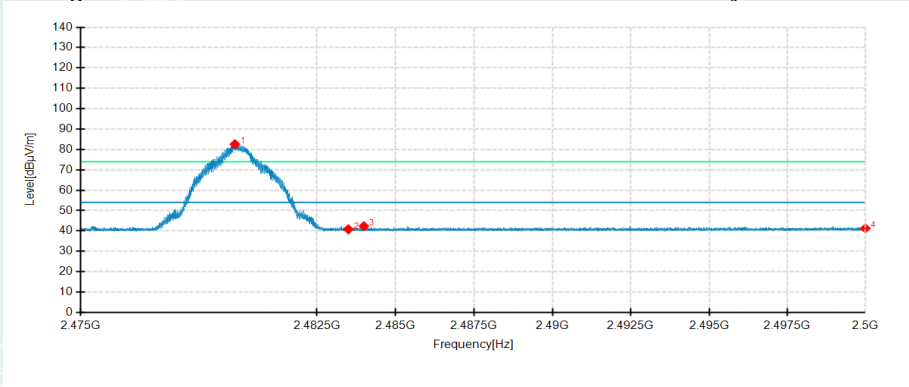
Highest Frequency
Frequency 2480MHz
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2480.0225	84.12	88.44	4.32	54.00	-34.44	200	0	Horizontal	No limit
2	2483.5000	36.42	40.75	4.33	54.00	13.25	200	99	Horizontal	/
3	2488.1450	38.00	42.34	4.34	54.00	11.66	100	184	Horizontal	/
4	2500.0000	36.34	40.72	4.38	54.00	13.28	200	3	Horizontal	/
1	2479.8950	78.24	82.56	4.32	54.00	-28.56	200	142	Vertical	No limit
2	2483.5000	36.49	40.82	4.33	54.00	13.18	200	263	Vertical	/
3	2483.9950	38.01	42.34	4.33	54.00	11.66	100	126	Vertical	/
4	2500.0000	36.88	41.26	4.38	54.00	12.74	100	218	Vertical	/

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E202112276794- Test Photo-27.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E202112276794- EUT Photo-27.

----- End of Report -----