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A.1 RADIATED EMISSION

Test Date	2023/03/21	Temp./Hum.	20°C /73%
Test Voltage	DC 3V (Via DC Power supply)	Tested By	Hua Wu

A.1.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

Mode	BLE (1Mbps)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.940	22.88	1.46	26.49	30.88	28.74	40.00	11.26	Peak
101.780	16.96	2.63	26.28	34.41	27.73	43.50	15.77	Peak
369.500	20.97	5.59	26.21	32.57	32.92	46.00	13.08	Peak
517.910	23.66	6.83	27.18	31.54	34.85	46.00	11.15	Peak
715.790	24.82	7.73	27.40	31.89	37.04	46.00	8.96	Peak
848.680	25.66	8.48	27.13	32.04	39.05	46.00	6.95	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.970	23.08	1.43	26.49	30.58	28.61	40.00	11.39	Peak
101.780	16.96	2.63	26.28	32.55	25.87	43.50	17.63	Peak
360.770	20.80	5.49	26.14	31.26	31.40	46.00	14.60	Peak
503.360	23.50	6.77	27.14	31.68	34.81	46.00	11.19	Peak
663.410	24.62	7.45	27.42	31.82	36.46	46.00	9.54	Peak
817.640	25.42	8.30	27.22	33.47	39.98	46.00	6.02	Peak

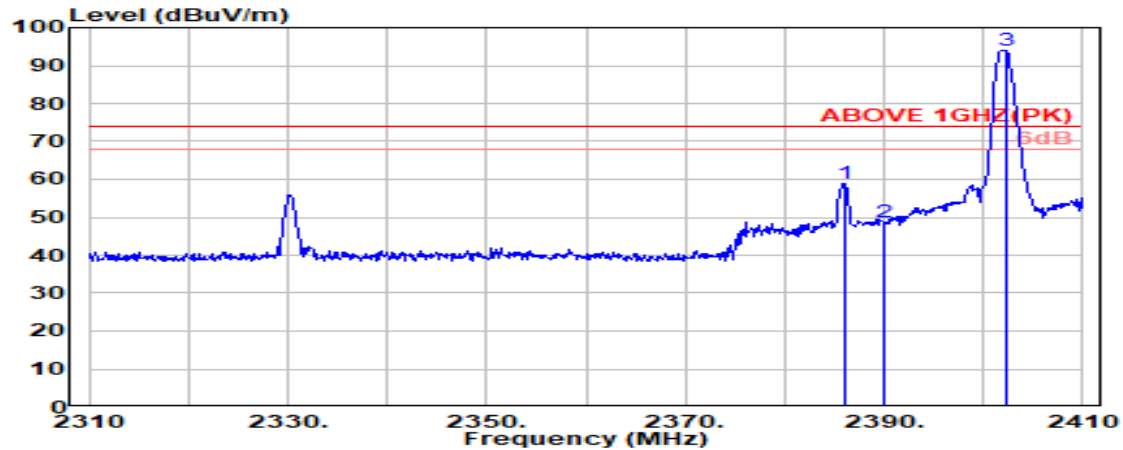
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

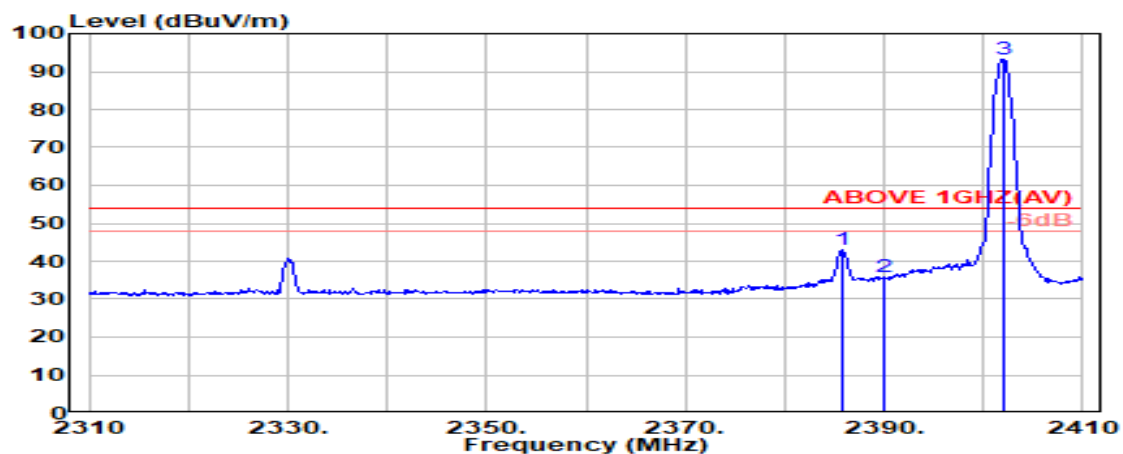
Band Edge:

Mode	BLE (1Mbps)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2386.000	28.21	5.72	34.44	59.27	58.76	74.00	15.24	Peak
2390.000	28.18	5.72	34.44	49.14	48.61	74.00	25.39	Peak
@ 2402.300	28.11	5.74	34.44	94.69	94.10	---	---	Peak

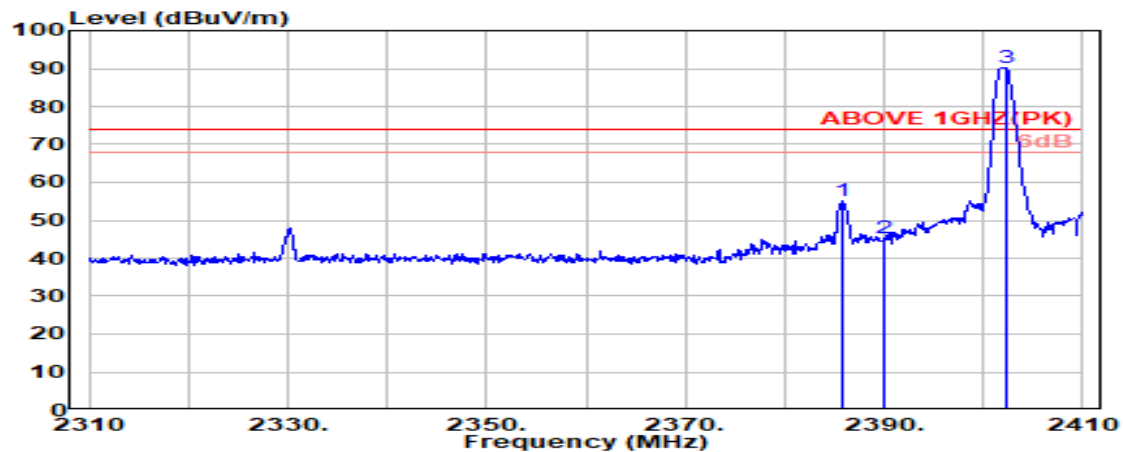


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2385.800	28.21	5.72	34.44	43.67	43.16	54.00	10.84	Average
2390.000	28.18	5.72	34.44	36.34	35.80	54.00	18.20	Average
@ 2402.000	28.11	5.74	34.44	93.87	93.29	---	---	Average

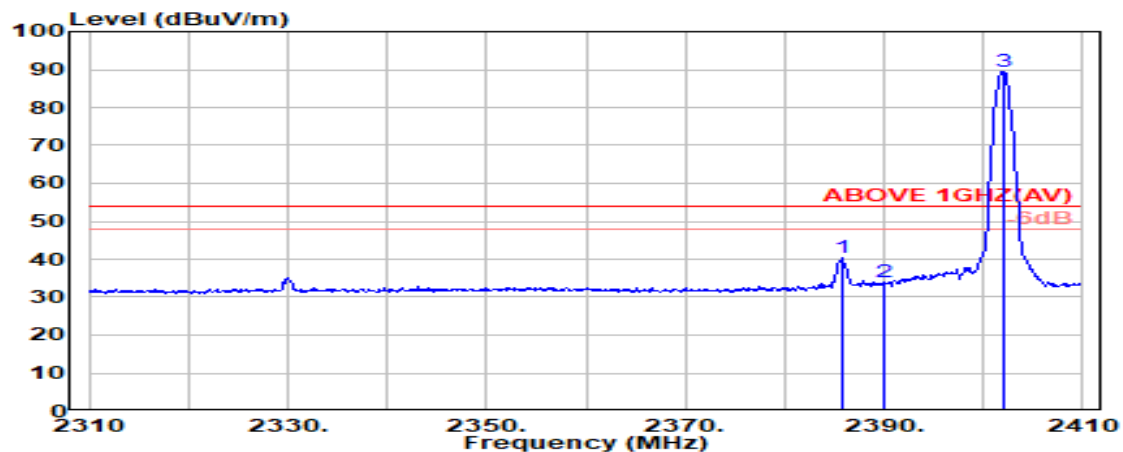
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	BLE (1Mbps)	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.900	28.21	5.72	34.44	55.78	55.27	74.00	18.73	Peak
2390.000	28.18	5.72	34.44	45.76	45.22	74.00	28.78	Peak
@ 2402.300	28.11	5.74	34.44	90.89	90.31	---	---	Peak

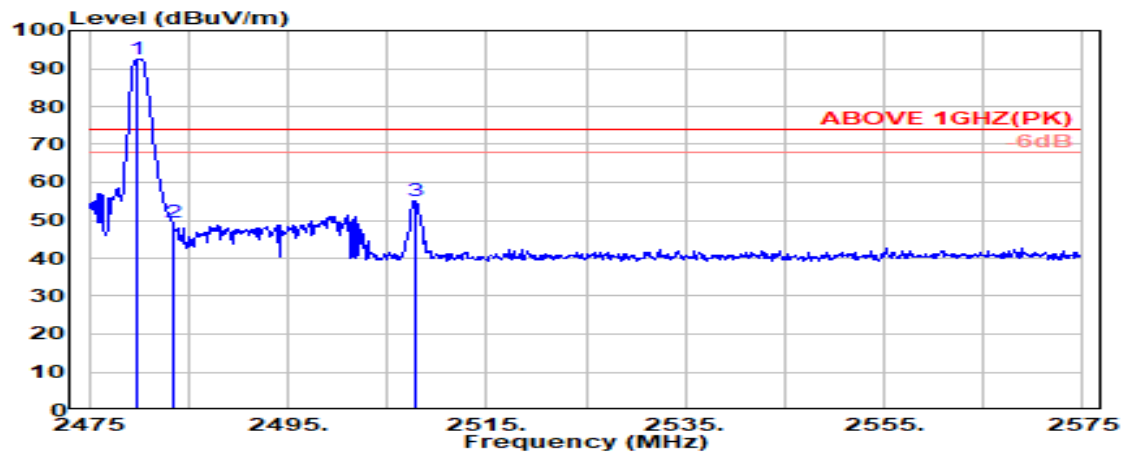


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.800	28.21	5.72	34.44	40.78	40.27	54.00	13.73	Average
2390.000	28.18	5.72	34.44	34.39	33.85	54.00	20.15	Average
@ 2402.000	28.11	5.74	34.44	90.04	89.46	---	---	Average

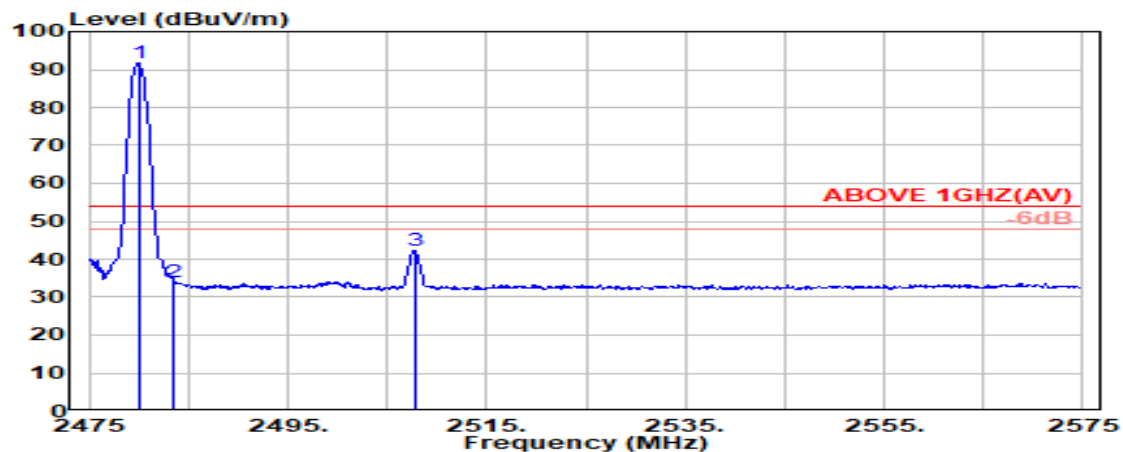
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	BLE (1Mbps)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.800	28.46	5.86	34.46	92.48	92.34	---	---	Peak
2483.500	28.47	5.87	34.46	49.73	49.61	74.00	24.39	Peak
2507.800	28.55	5.91	34.46	55.06	55.06	74.00	18.94	Peak

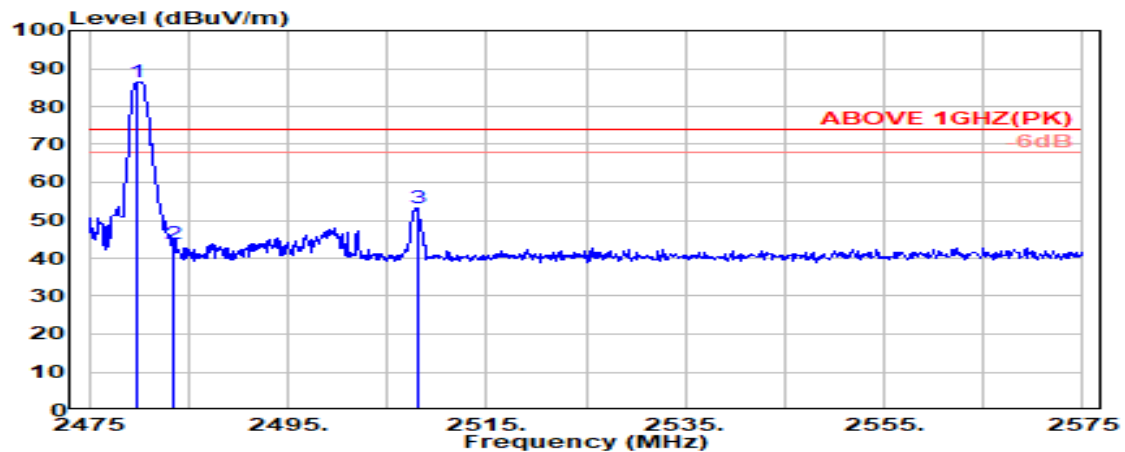


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	34.46	91.73	91.59	---	---	Average
2483.500	28.47	5.87	34.46	34.27	34.14	54.00	19.86	Average
2507.800	28.55	5.91	34.46	42.37	42.36	54.00	11.64	Average

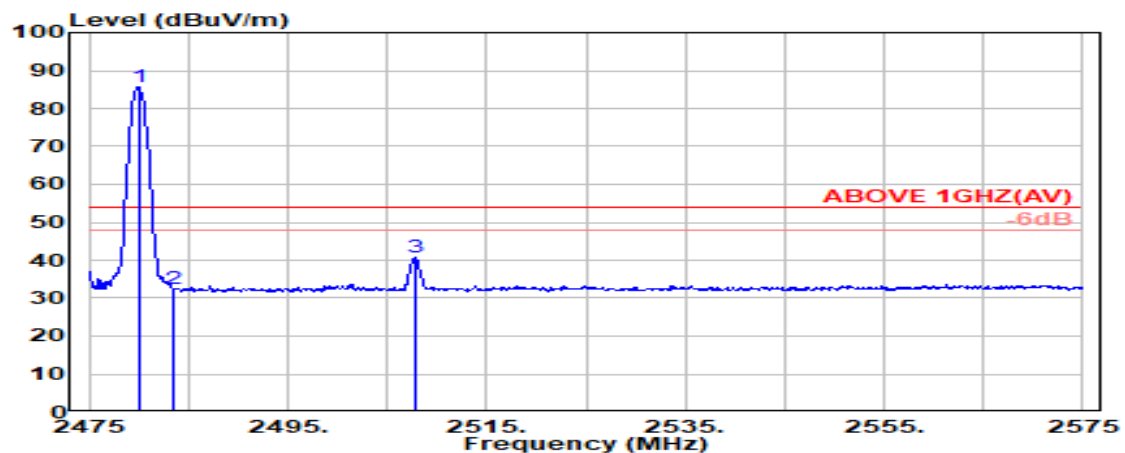
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	BLE (1Mbps)	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2479.800	28.46	5.86	34.46	86.44	86.30	---	---	Peak
	2483.500	28.47	5.87	34.46	43.83	43.71	74.00	30.29	Peak
	2508.000	28.55	5.91	34.46	53.11	53.10	74.00	20.90	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.000	28.46	5.86	34.46	85.64	85.50	---	---	Average
	2483.500	28.47	5.87	34.46	32.54	32.41	54.00	21.59	Average
	2507.900	28.55	5.91	34.46	40.78	40.77	54.00	13.23	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

A.1.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	BLE (1Mbps)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.01	8.53	39.39	47.73	49.88	54.00	4.12	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.01	8.53	39.39	49.84	51.98	54.00	2.02	Peak

Mode	BLE (1Mbps)	Frequency	TX 2440MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.22	8.63	39.35	48.31	50.81	54.00	3.19	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.22	8.63	39.35	48.24	50.74	54.00	3.26	Peak

Mode	BLE (1Mbps)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.75	39.32	46.21	49.04	54.00	4.96	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.75	39.32	46.64	49.47	54.00	4.53	Peak

A.1.3 Emissions in Non-restricted Frequency Bands:

Pursuant to ANSI C63.10:2013 that emission levels below the FCC 15.209(a) general radiated emissions limits is not required.

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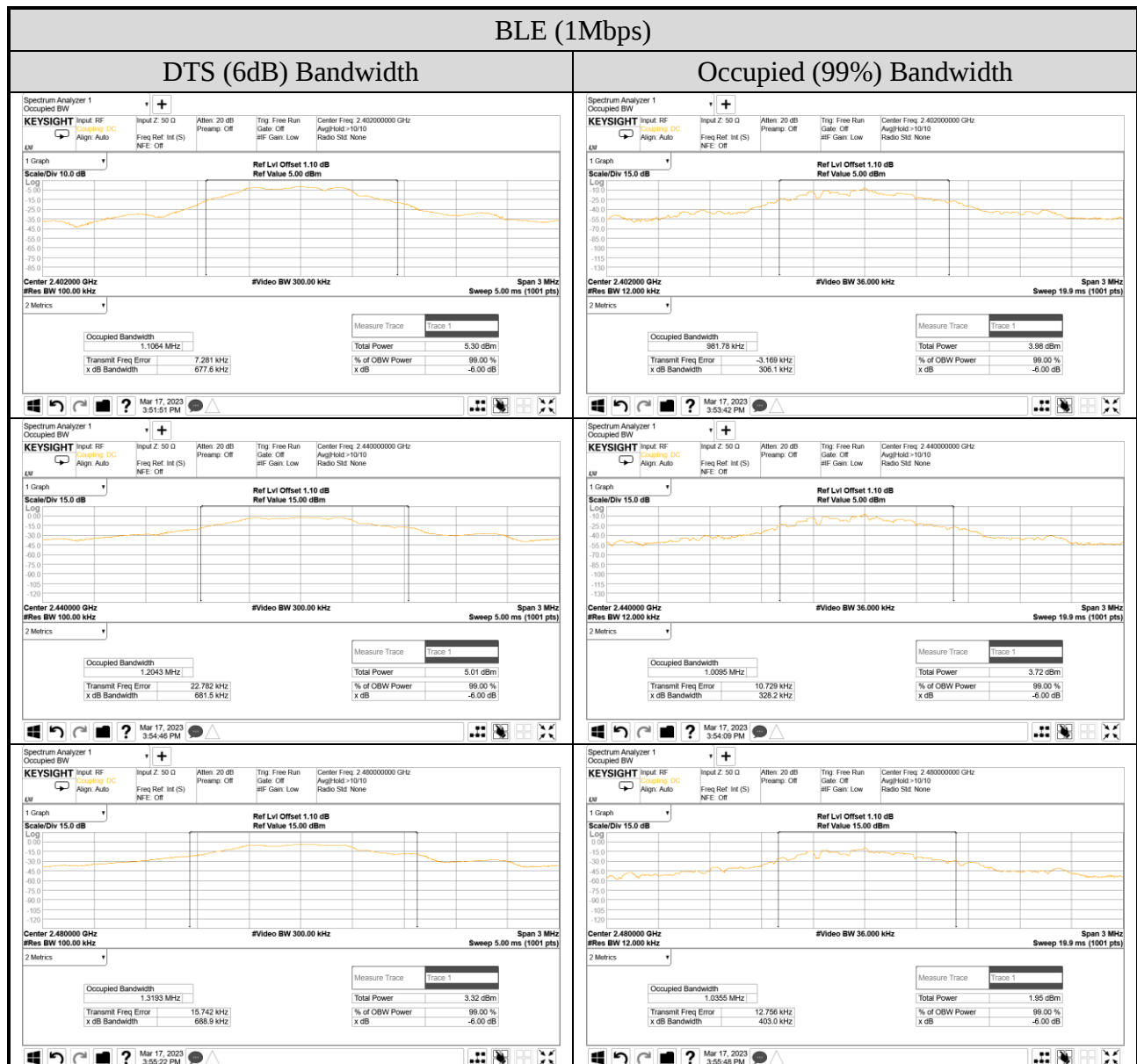
A.2 DTS/OCCUPIED BANDWIDTH

Test Date	2023/03/17	Temp./Hum.	23°C /65%
Cable Loss	1.10dB	Tested By	Hua Wu
Test Voltage	DC 3V (Via DC Power supply)		

A.2.1 DTS/Occupied Bandwidth Result

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
BLE (1Mbps)	2402	0.6776	0.98178	>500kHz
	2440	0.6815	1.0095	
	2480	0.6889	1.0355	

A.2.2 Measurement Plots



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A.3 MAXIMUM PEAK OUTPUT POWER

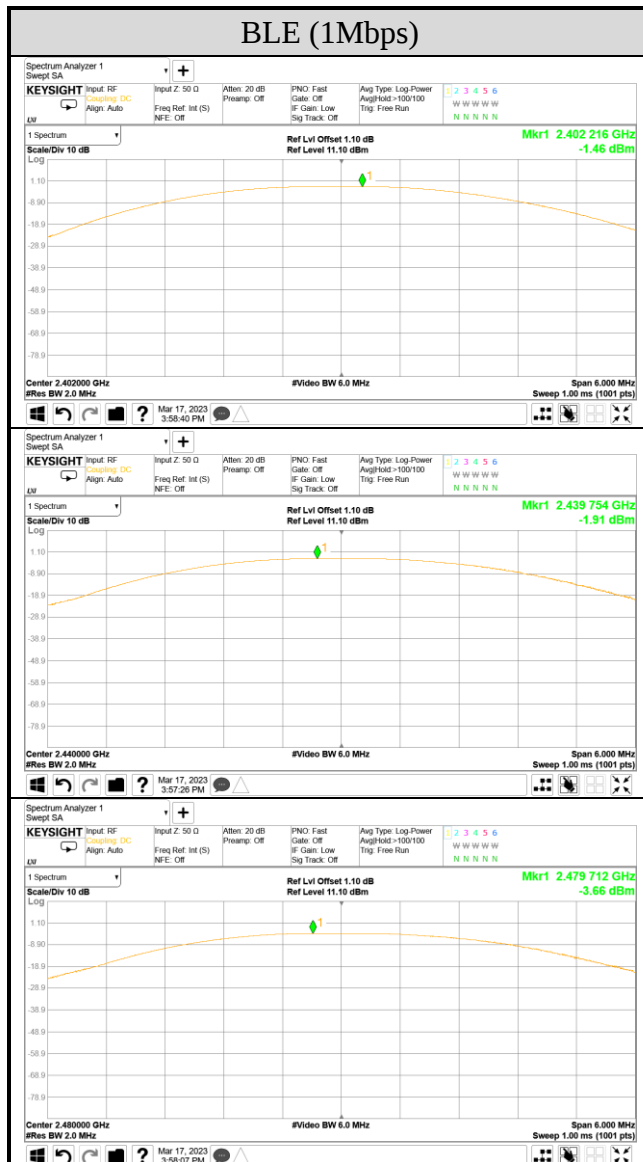
Test Date	2023/03/17	Temp./Hum.	23°C /65%
Cable Loss	1.10dB	Tested By	Hua Wu
Test Voltage	DC 3V (Via DC Power supply)		

A.3.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Limit
BLE (1Mbps)	2402	-1.46	0.00071	<30 dBm
	2440	-1.91	0.00064	
	2480	-3.66	0.00043	

Note: The results have been included cable loss.

A.3.2 Measurement Plots



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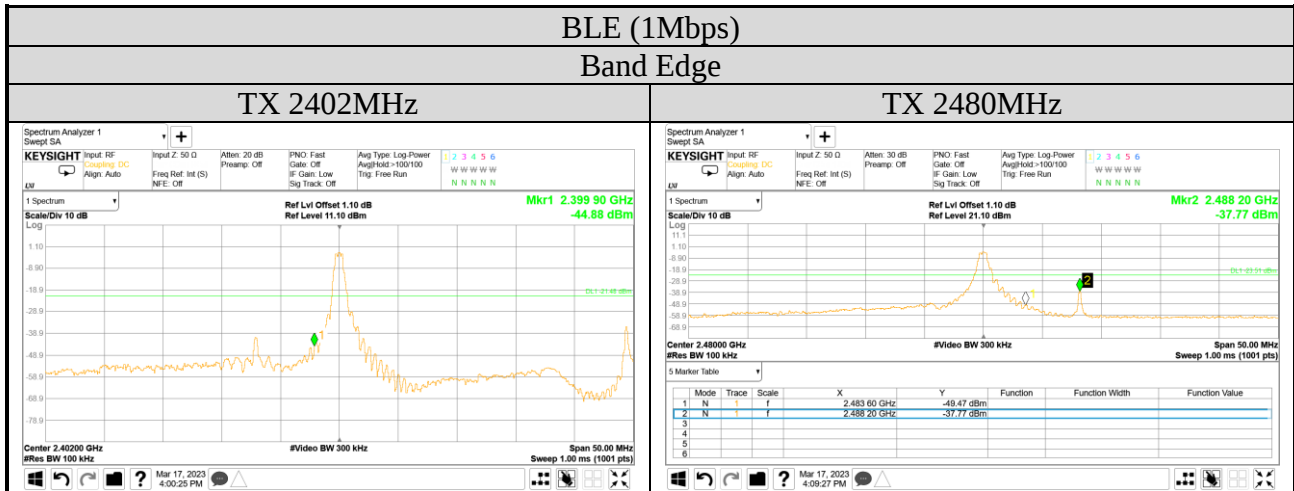
A.4 EMISSION LIMITATIONS

Test Date	2023/03/17	Temp./Hum.	23°C /65%
Cable Loss	1.10dB	Tested By	Hua Wu
Test Voltage	DC 3V (Via DC Power supply)		



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A.5 POWER SPECTRAL DENSITY

Test Date	2023/03/17	Temp./Hum.	23°C /65%
Cable Loss	1.10dB	Tested By	Hua Wu
Test Voltage	DC 3V (Via DC Power supply)		

A.5.1 Power Spectral Density Result

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
BLE (1Mbps)	2402	-15.56	<8 dBm/3kHz
	2440	-15.83	
	2480	-19.41	

Note: The results have been included cable loss.

A.5.2 Measurement Plots

