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A.1 RADIATED EMISSION

Test Date	2025/09/02	Temp./Hum.	24°C/56%
Test Voltage	DC 3.3V (Through jig via Notebook PC)	Tested By	Brian Hsieh

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	BT (8DPSK)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
42.610	17.41	1.59	26.46	41.40	33.94	40.00	6.06	Peak
150.280	16.44	3.07	25.99	43.95	37.46	43.50	6.04	Peak
393.750	21.28	5.72	26.37	41.90	42.54	46.00	3.46	Peak
608.120	24.31	6.85	27.38	39.17	42.94	46.00	3.06	Peak
752.650	24.62	7.58	27.30	38.47	43.37	46.00	2.63	Peak
993.210	27.07	8.97	26.72	33.03	42.36	54.00	11.64	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.790	20.41	1.48	26.46	41.69	37.12	40.00	2.88	Peak
176.470	15.25	3.35	25.88	48.70	41.42	43.50	2.08	Peak
393.750	21.28	5.72	26.37	41.44	42.07	46.00	3.93	Peak
535.370	23.56	6.70	27.19	40.06	43.13	46.00	2.87	Peak
736.160	24.60	7.49	27.33	38.99	43.75	46.00	2.25	Peak
976.720	26.96	8.88	26.77	32.79	41.86	54.00	12.14	Peak

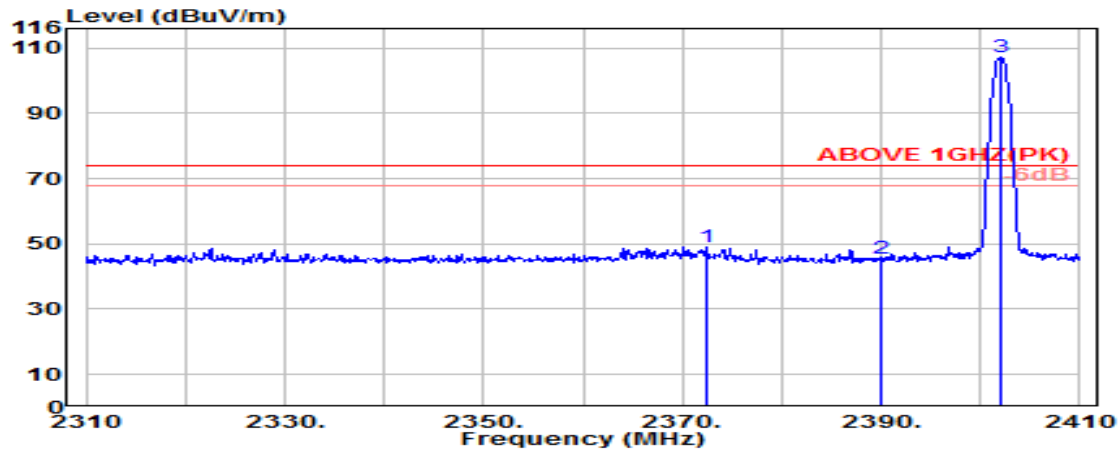
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

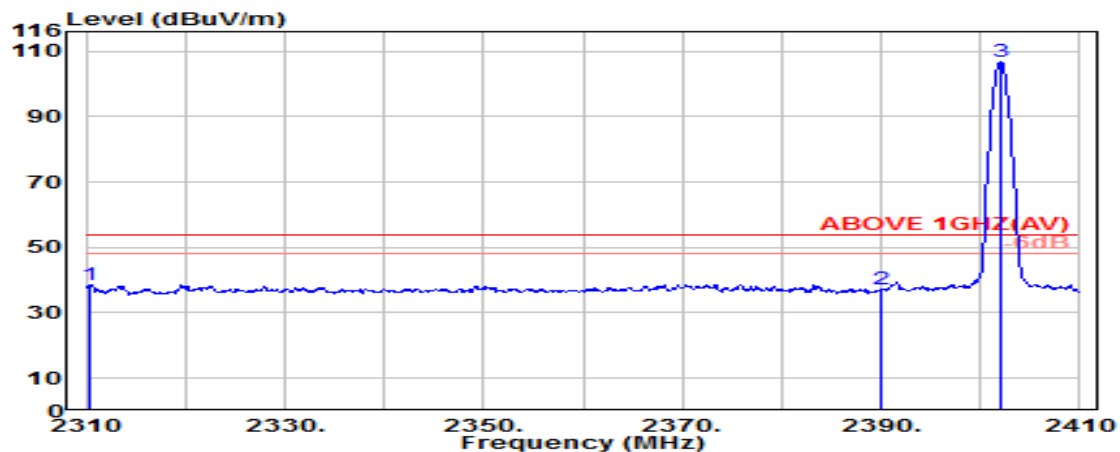
Band Edge:

Mode	GFSK	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
2372.500	28.20	6.01	39.92	54.94	49.23	74.00	24.77	Peak
2390.000	28.20	6.03	39.92	51.32	45.64	74.00	28.36	Peak
@ 2402.100	28.20	6.05	39.92	112.72	107.06			Peak



Antenna at Horizontal Polarization

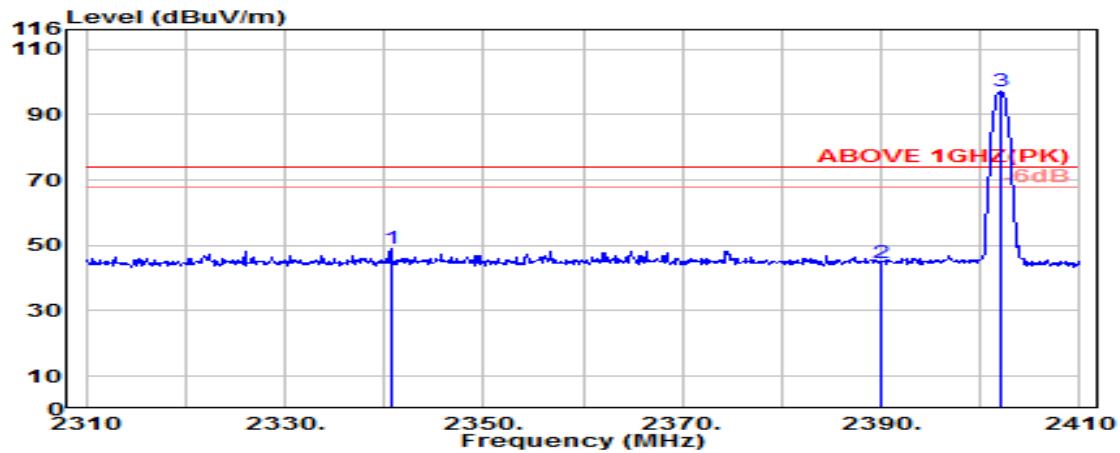
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2310.400	28.04	5.92	39.92	44.65	38.70	54.00	15.30	Average
2390.000	28.20	6.03	39.92	42.73	37.05	54.00	16.95	Average
@ 2402.000	28.20	6.05	39.92	112.37	106.71	---	---	Average

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

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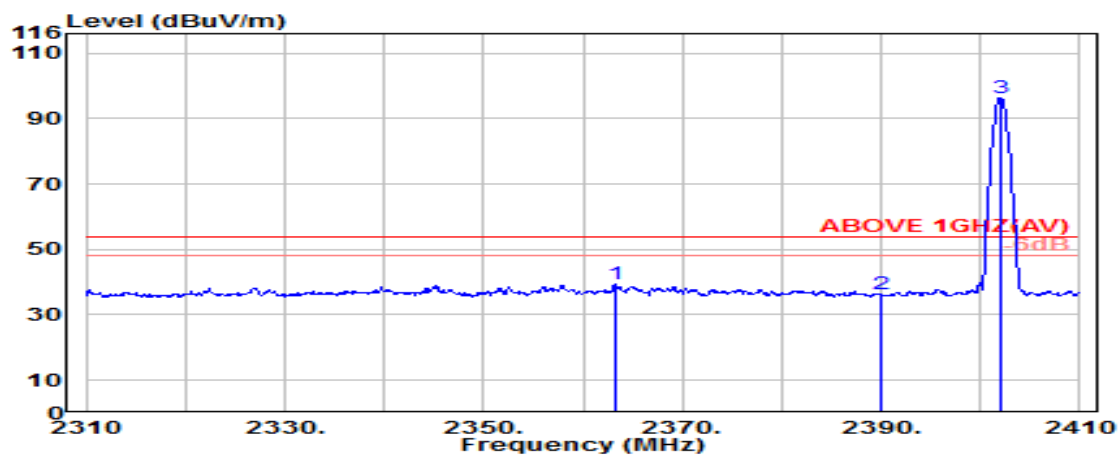
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Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2340.700	28.16	5.96	39.92	54.65	48.86	74.00	25.14	Peak
2390.000	28.20	6.03	39.92	50.35	44.67	74.00	29.33	Peak
@ 2402.000	28.20	6.05	39.92	102.66	97.00	---	---	Peak

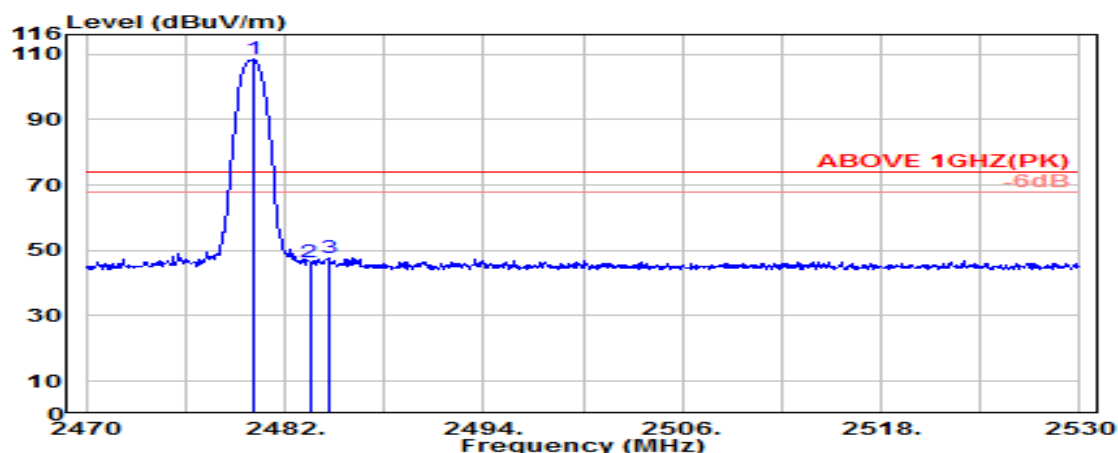


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2363.200	28.20	6.00	39.92	45.00	39.28	54.00	14.72	Average
2390.000	28.20	6.03	39.92	41.97	36.29	54.00	17.71	Average
@ 2402.000	28.20	6.05	39.92	102.10	96.44	---	---	Average

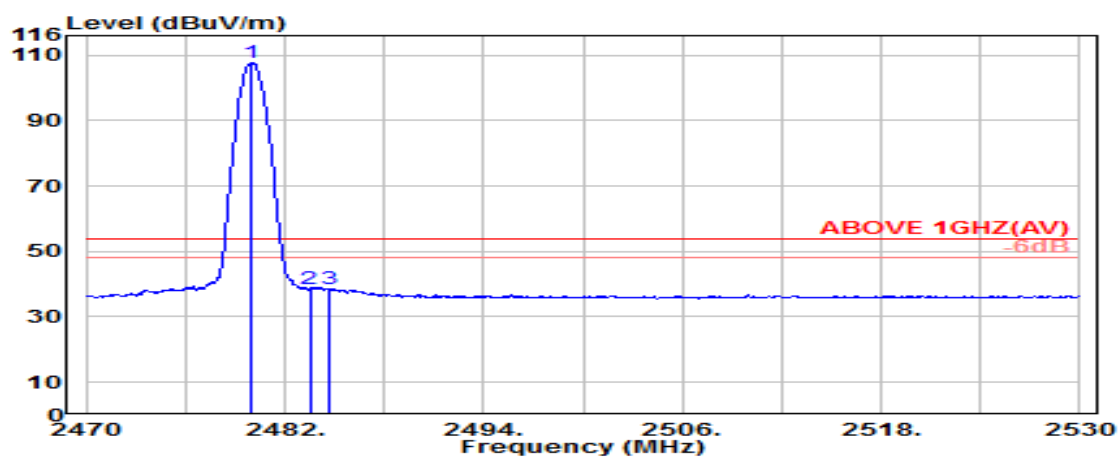
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	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 (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.050	28.42	6.16	39.92	113.71	108.37	---	---	Peak
2483.500	28.43	6.17	39.92	51.63	46.31	74.00	27.69	Peak
2484.700	28.44	6.17	39.92	53.01	47.70	74.00	26.30	Peak



Antenna at Horizontal Polarization

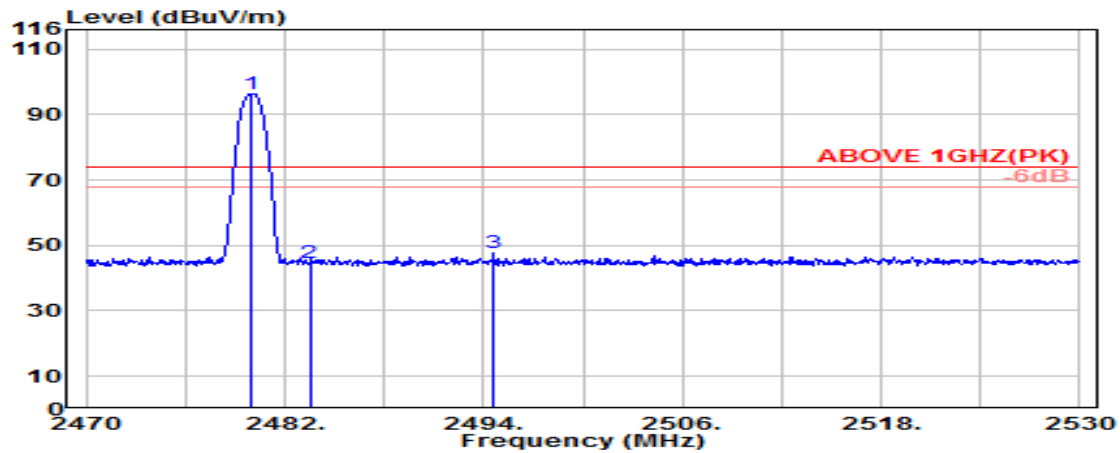
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.000	28.42	6.16	39.92	113.09	107.75	---	---	Average
2483.500	28.43	6.17	39.92	43.86	38.54	54.00	15.46	Average
2484.700	28.44	6.17	39.92	44.02	38.71	54.00	15.29	Average

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

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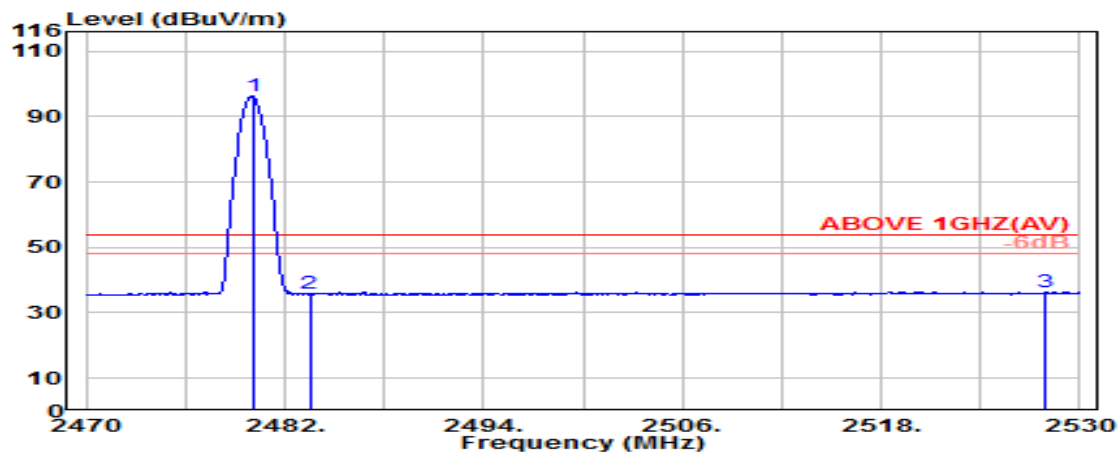
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	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
@	2479.950	28.42	6.16	39.92	101.82	96.48	---	---	Peak
	2483.500	28.43	6.17	39.92	50.13	44.81	74.00	29.19	Peak
	2494.600	28.48	6.18	39.92	53.04	47.78	74.00	26.22	Peak

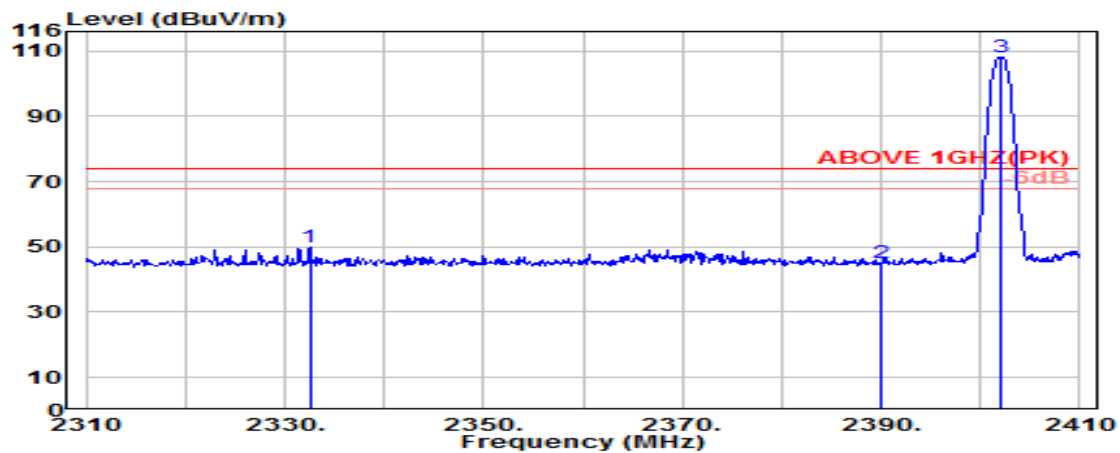


Antenna at Vertical Polarization

	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
@	2480.050	28.42	6.16	39.92	101.60	96.26	---	---	Average
	2483.500	28.43	6.17	39.92	41.09	35.77	54.00	18.23	Average
	2527.950	28.61	6.22	39.92	41.49	36.40	54.00	17.60	Average

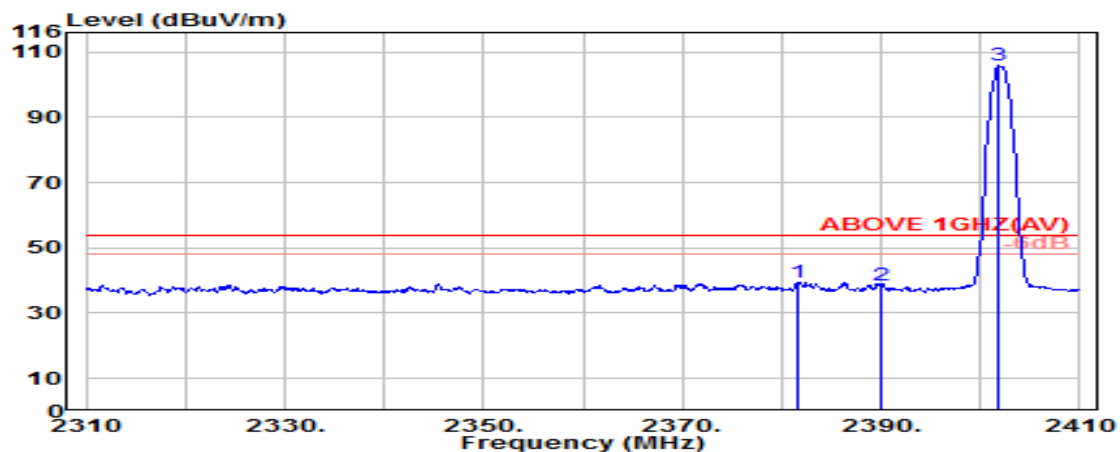
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	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
2332.500	28.13	5.95	39.92	55.54	49.71	74.00	24.29	Peak
2390.000	28.20	6.03	39.92	50.63	44.95	74.00	29.05	Peak
@ 2402.000	28.20	6.05	39.92	113.89	108.23	---	---	Peak



Antenna at Horizontal Polarization

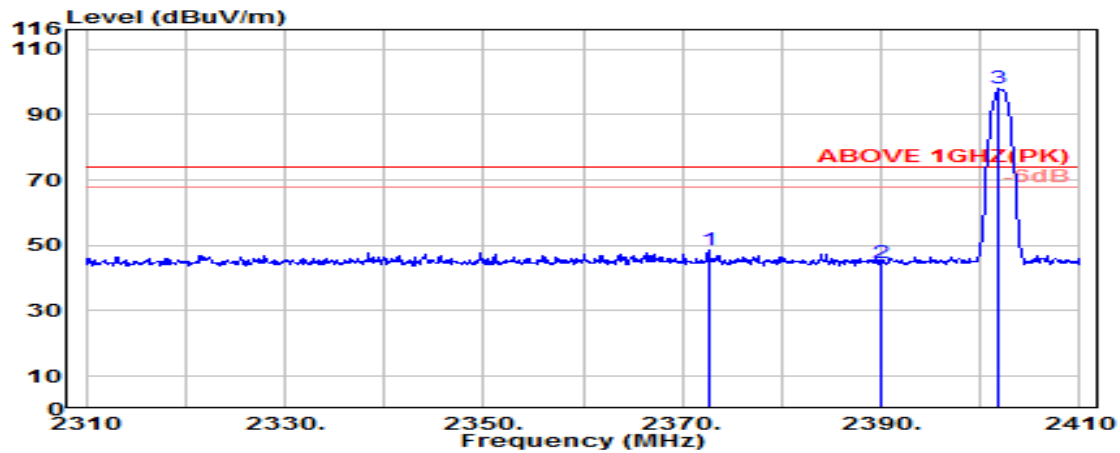
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2381.500	28.20	6.02	39.92	45.31	39.61	54.00	14.39	Average
2390.000	28.20	6.03	39.92	44.17	38.48	54.00	15.52	Average
@ 2401.900	28.20	6.05	39.92	111.49	105.82	---	---	Average

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

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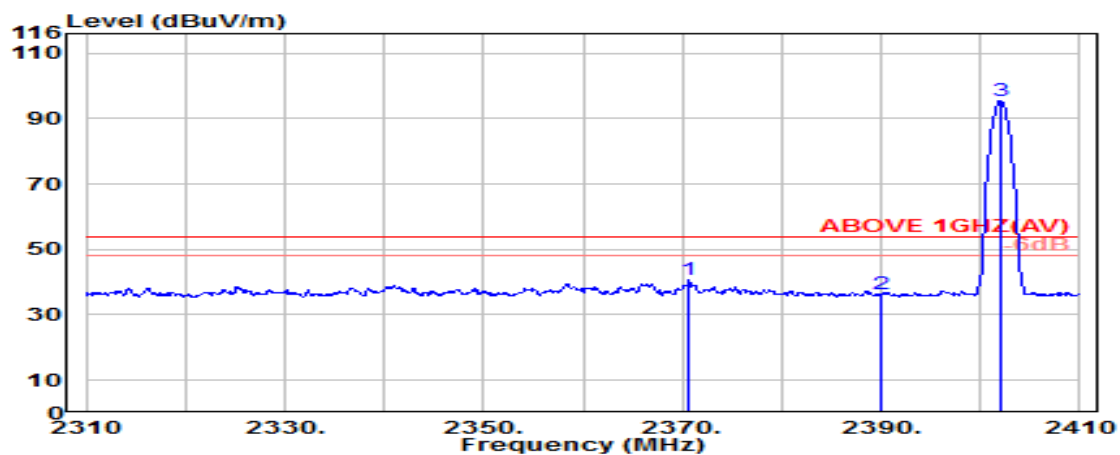
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

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
2372.600	28.20	6.01	39.92	54.26	48.55	74.00	25.45	Peak
2390.000	28.20	6.03	39.92	50.36	44.68	74.00	29.32	Peak
@ 2401.900	28.20	6.05	39.92	103.51	97.84	---	---	Peak



Antenna at Vertical Polarization

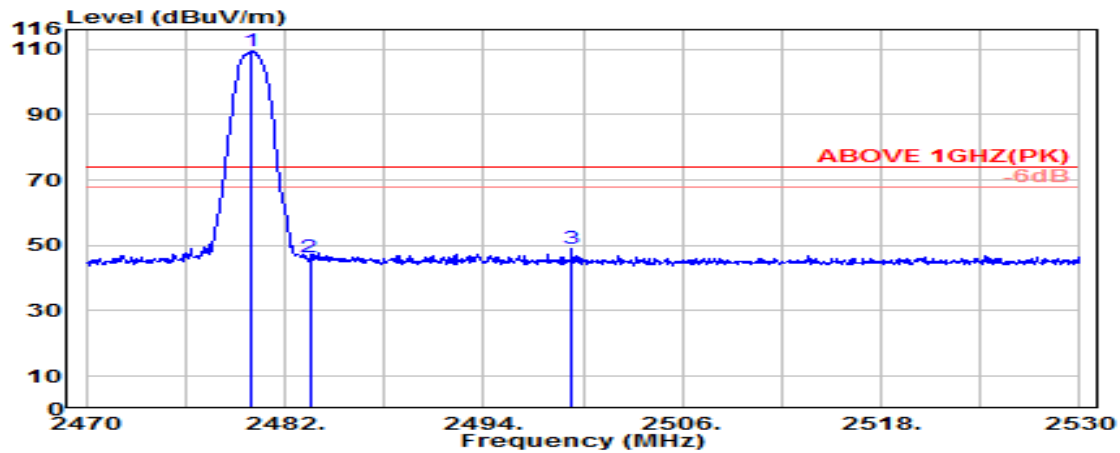
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2370.700	28.20	6.01	39.92	46.22	40.51	54.00	13.49	Average
2390.000	28.20	6.03	39.92	41.93	36.25	54.00	17.75	Average
@ 2402.000	28.20	6.05	39.92	101.12	95.45	---	---	Average

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

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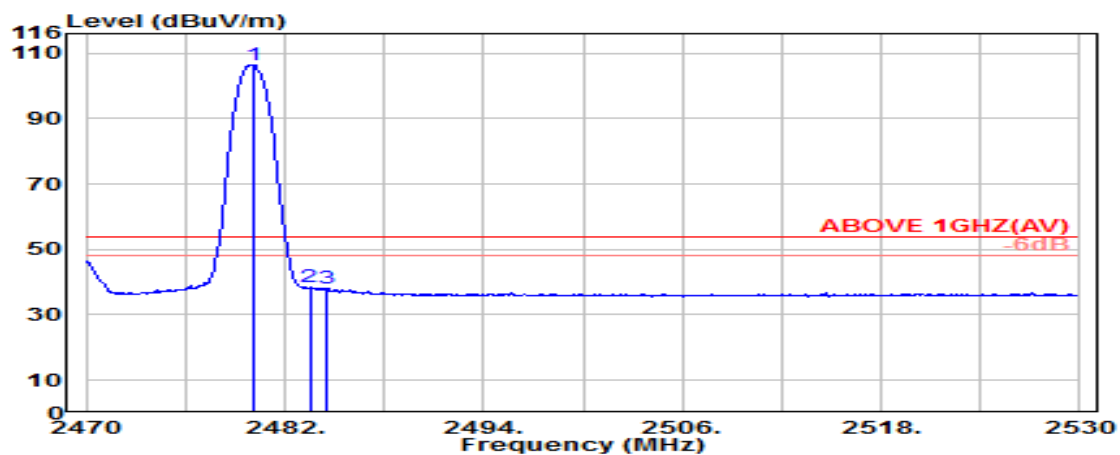
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

	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
@	2479.950	28.42	6.16	39.92	114.58	109.24	---	---	Peak
	2483.500	28.43	6.17	39.92	51.93	46.61	74.00	27.39	Peak
	2499.350	28.50	6.19	39.92	54.44	49.21	74.00	24.79	Peak



Antenna at Horizontal Polarization

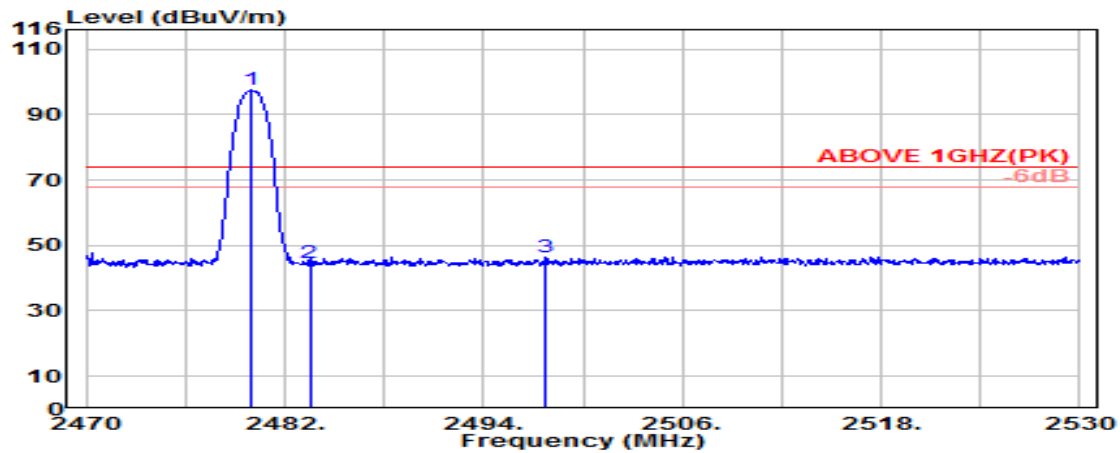
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.050	28.42	6.16	39.92	111.79	106.46	---	---	Average
	2483.500	28.43	6.17	39.92	43.86	38.54	54.00	15.46	Average
	2484.500	28.44	6.17	39.92	43.24	37.93	54.00	16.07	Average

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

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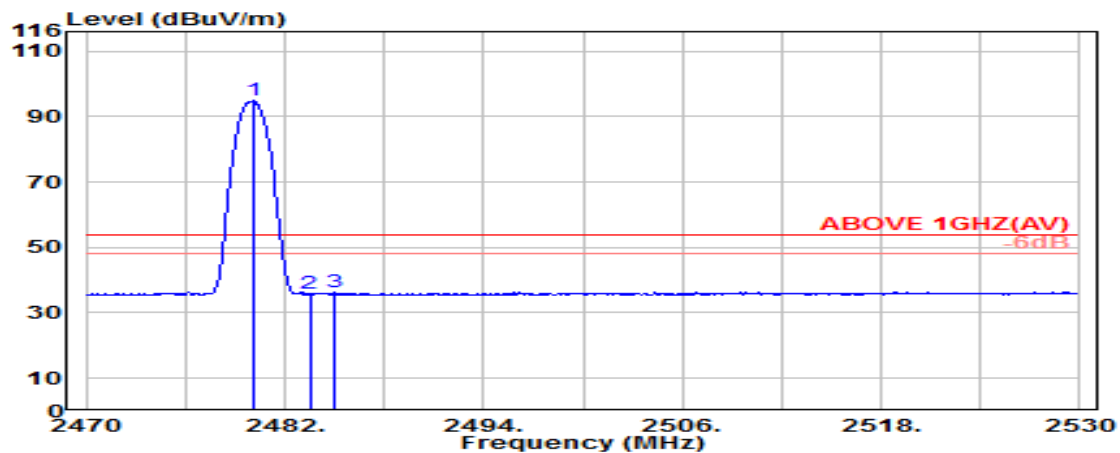
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	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
@	2480.000	28.42	6.16	39.92	103.07	97.73	---	---	Peak
	2483.500	28.43	6.17	39.92	50.16	44.85	74.00	29.15	Peak
	2497.700	28.49	6.19	39.92	51.77	46.53	74.00	27.47	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
@	2480.100	28.42	6.16	39.92	100.13	94.80	---	---	Average
	2483.500	28.43	6.17	39.92	41.22	35.90	54.00	18.10	Average
	2484.950	28.44	6.17	39.92	41.78	36.47	54.00	17.53	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	BT (GFSK)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.32	39.18	40.68	42.54	54.00	11.46	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.32	39.18	40.16	42.02	54.00	11.98	Peak

Mode	BT (GFSK)	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.03	8.38	39.15	40.95	43.21	54.00	10.79	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.03	8.38	39.15	40.62	42.87	54.00	11.13	Peak

Mode	BT (GFSK)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.22	8.42	39.12	41.68	44.21	54.00	9.79	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.22	8.42	39.12	40.69	43.22	54.00	10.78	Peak

Mode	BT (8DPSK)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.32	39.18	39.03	40.89	54.00	13.11	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.32	39.18	39.62	41.48	54.00	12.52	Peak

Mode	BT (8DPSK)	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.03	8.38	39.15	41.24	43.50	54.00	10.50	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.03	8.38	39.15	40.82	43.08	54.00	10.92	Peak

Mode	BT (8DPSK)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.22	8.42	39.12	40.89	43.42	54.00	10.58	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.22	8.42	39.12	40.37	42.90	54.00	11.10	Peak

A.1.3 Emissions in Non-restricted Frequency Bands:

All emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

A.2 MAXIMUM PEAK OUTPUT POWER

Test Date	2025/08/04 ~ 09/09	Temp./Hum.	24 ~ 26°C/57 ~ 59%
Cable Loss	2.00dB	Tested By	Brian Hsieh
Test Voltage	DC 3.3V (Through jig via Notebook PC)		

A.2.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	10.01	0.010	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2441	9.90	0.010	
	2480	9.65	0.009	
8-DPSK	2402	11.93	0.016	
	2441	11.62	0.015	
	2480	11.61	0.014	
π /4-DQPSK	2402	11.91	0.016	
	2441	11.74	0.015	
	2480	11.71	0.015	