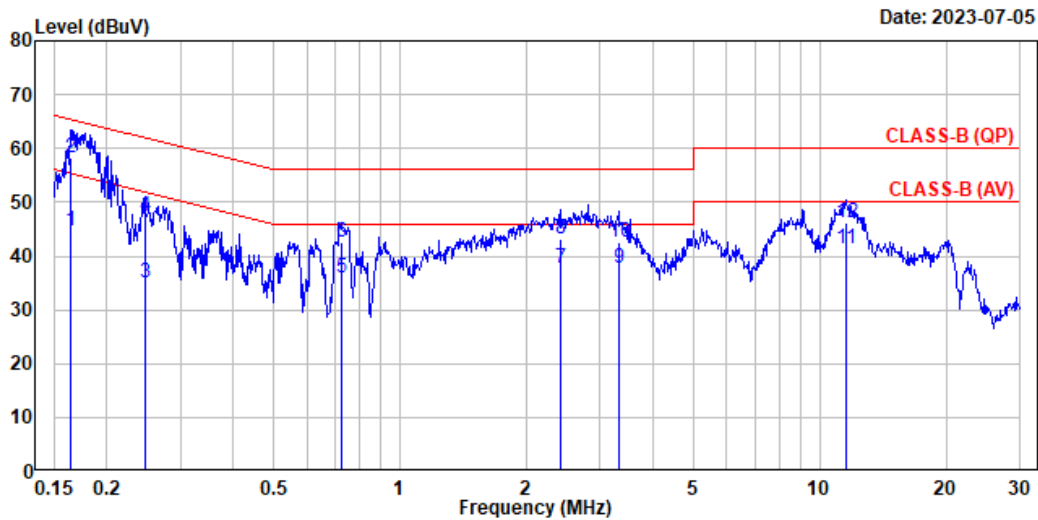


TABLE OF CONTENTS

A.1 CONDUCTED EMISSION	2
A.2 RADIATED EMISSION	4
A.2.1 Emissions within Restricted Frequency Bands.....	4
A.2.2 Emissions outside the frequency band:.....	13
A.2.3 Emissions in Non-restricted Frequency Bands:.....	13
A.3 MAXIMUM PEAK OUTPUT POWER	14
A.3.1 Maximum Peak Output Power.....	14

A.1 CONDUCTED EMISSION

Test Date	2023/07/05	Temp./Hum.	25°C/60%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Bruce Tseng

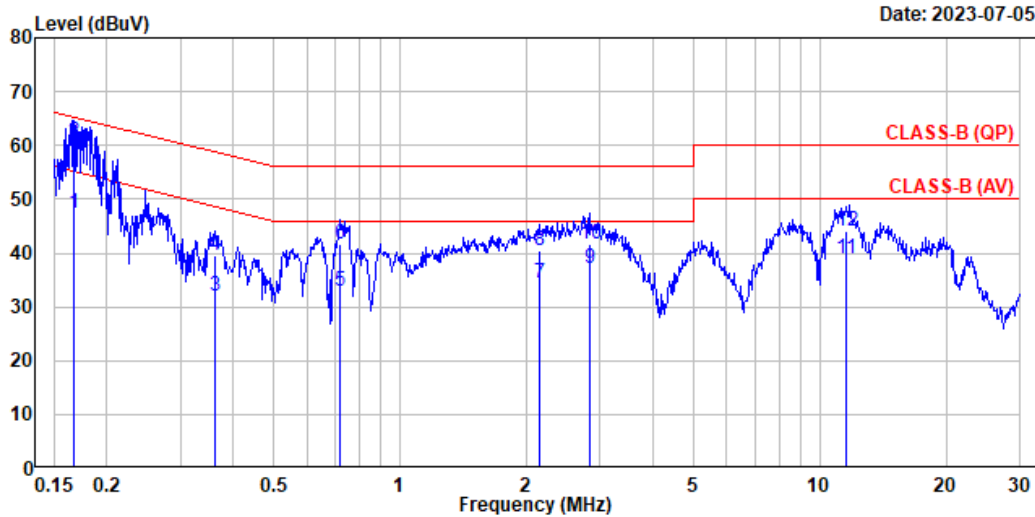


Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 25°C/60%	Test Rating	: 120Vac/60Hz
EUT Model	: 17Z90R	Engineer	: Bruce
Test Mode	: operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.164	10.30	0.03	9.85	24.60	44.78	55.25	10.47	Average
2	0.164	10.30	0.03	9.85	38.04	58.22	65.25	7.03	QP
3	0.247	10.29	0.03	9.85	14.86	35.03	51.86	16.83	Average
4	0.247	10.29	0.03	9.85	27.21	47.38	61.86	14.48	QP
5	0.725	10.29	0.04	9.85	15.64	35.82	46.00	10.18	Average
6	0.725	10.29	0.04	9.85	22.49	42.67	56.00	13.33	QP
7	2.409	10.33	0.07	9.86	17.40	37.66	46.00	8.34	Average
8	2.409	10.33	0.07	9.86	22.77	43.03	56.00	12.97	QP
9	3.314	10.35	0.07	9.86	17.38	37.66	46.00	8.34	Average
10	3.314	10.35	0.07	9.86	22.39	42.67	56.00	13.33	QP
11	11.521	10.65	0.15	9.90	20.52	41.22	50.00	8.78	Average
12	11.521	10.65	0.15	9.90	25.48	46.18	60.00	13.82	QP

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

Test Date	2023/07/05	Temp./Hum.	25°C/60%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Bruce Tseng



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 25°C/60%	Test Rating	: 120Vac/60Hz
EUT Model	: 17290R	Engineer	: Bruce
Test Mode	: operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.167	10.29	0.03	9.85	27.13	47.30	55.13	7.83	Average
2	0.167	10.29	0.03	9.85	40.65	60.82	65.13	4.31	QP
3	0.362	10.27	0.03	9.85	11.75	31.90	48.67	16.77	Average
4	0.362	10.27	0.03	9.85	19.51	39.66	58.67	19.01	QP
5	0.717	10.28	0.04	9.85	12.61	32.78	46.00	13.22	Average
6	0.717	10.28	0.04	9.85	21.47	41.64	56.00	14.36	QP
7	2.148	10.30	0.06	9.86	14.30	34.52	46.00	11.48	Average
8	2.148	10.30	0.06	9.86	20.23	40.45	56.00	15.55	QP
9	2.825	10.31	0.07	9.86	16.82	37.06	46.00	8.94	Average
10	2.825	10.31	0.07	9.86	21.48	41.72	56.00	14.28	QP
11	11.521	10.51	0.15	9.90	18.27	38.83	50.00	11.17	Average
12	11.521	10.51	0.15	9.90	23.37	43.93	60.00	16.07	QP

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

A.2 RADIATED EMISSION

Test Date	2023/06/26 ~ 07/03	Temp./Hum.	22~23°C/49~56%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Ryan Chiang

A.2.1 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	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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.522	22.76	1.25	26.52	36.23	33.73	40.00	6.27	Peak
59.876	12.42	1.74	26.44	40.65	28.37	40.00	11.63	Peak
112.838	17.62	2.45	26.22	37.53	31.38	43.50	12.12	Peak
153.772	16.68	2.91	26.00	43.32	36.91	43.50	6.59	Peak
378.036	21.16	5.28	26.34	35.63	35.73	46.00	10.27	Peak
985.644	26.97	9.19	26.80	30.77	40.13	54.00	13.87	Peak

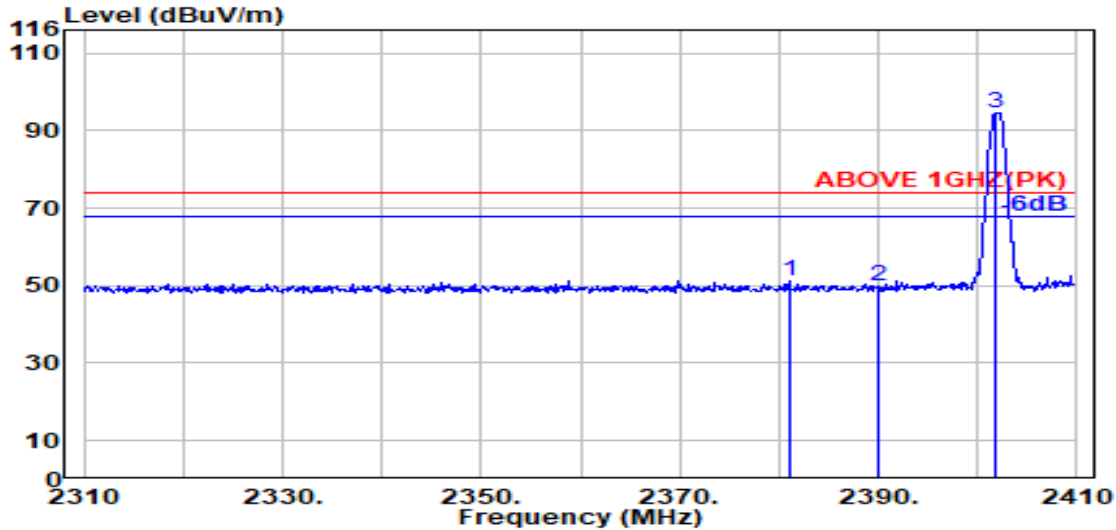
Antenna at Vertical Polarization

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
33.104	22.65	1.26	26.52	36.91	34.31	40.00	5.69	Peak
86.066	14.36	2.12	26.35	46.50	36.62	40.00	3.38	Peak
153.190	16.70	2.91	26.00	42.91	36.52	43.50	6.98	Peak
258.338	18.63	3.96	25.72	31.91	28.79	46.00	17.21	Peak
861.096	25.75	8.43	27.13	32.96	40.01	46.00	5.99	Peak
979.436	26.89	9.16	26.82	32.54	41.77	54.00	12.23	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

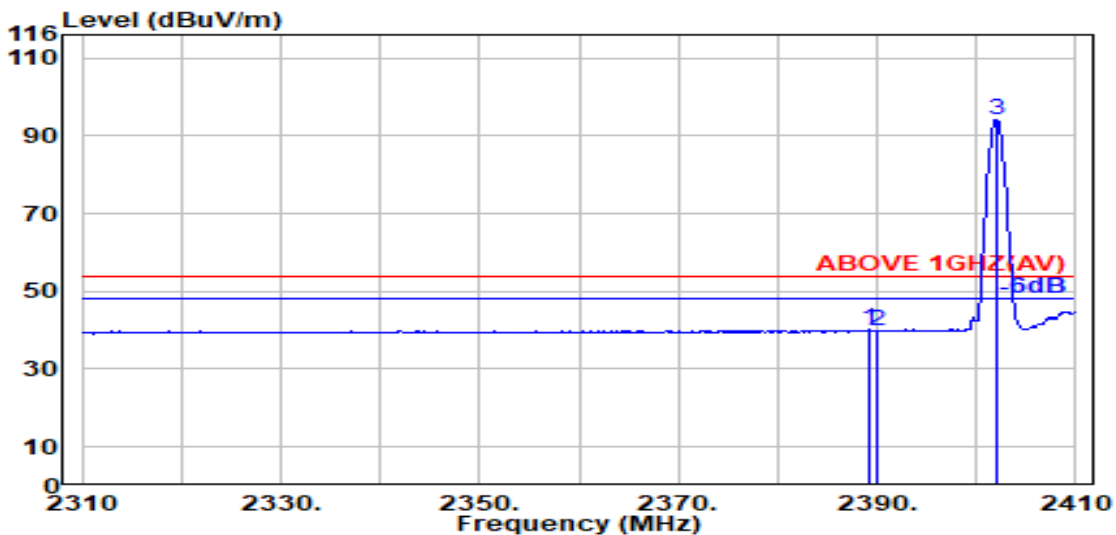
Band Edge:

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2381.000	28.25	5.71	39.93	57.20	51.23	74.00	22.77	Peak
2390.000	28.18	5.72	39.93	55.91	49.88	74.00	24.12	Peak
@ 2401.800	28.11	5.74	39.93	100.57	94.49	---	---	Peak

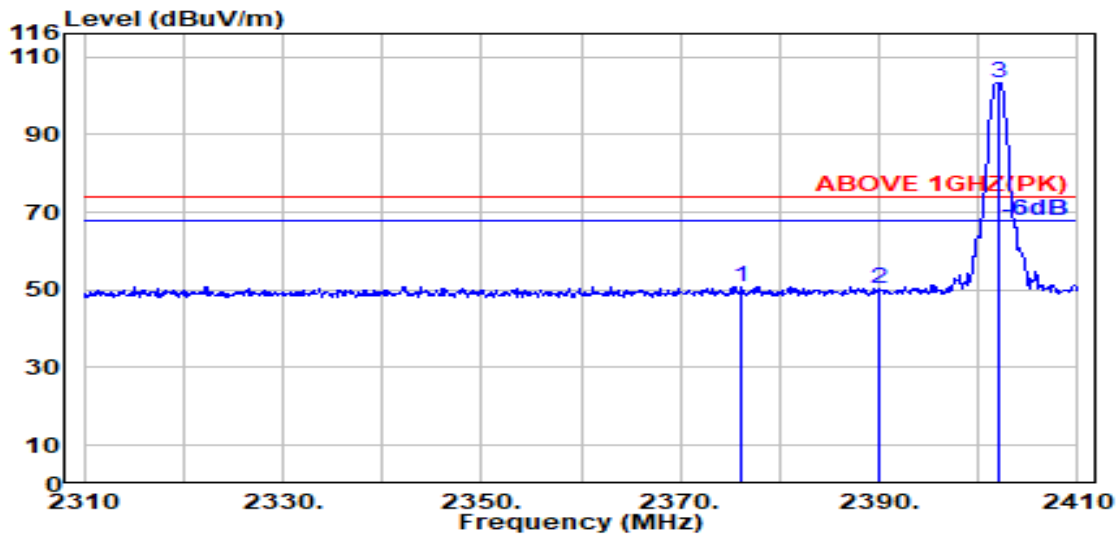


Antenna at Horizontal Polarization

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
2389.200	28.19	5.72	39.93	46.09	40.07	54.00	13.93	Average
2390.000	28.18	5.72	39.93	45.81	39.78	54.00	14.22	Average
@ 2402.000	28.11	5.74	39.93	100.32	94.25	---	---	Average

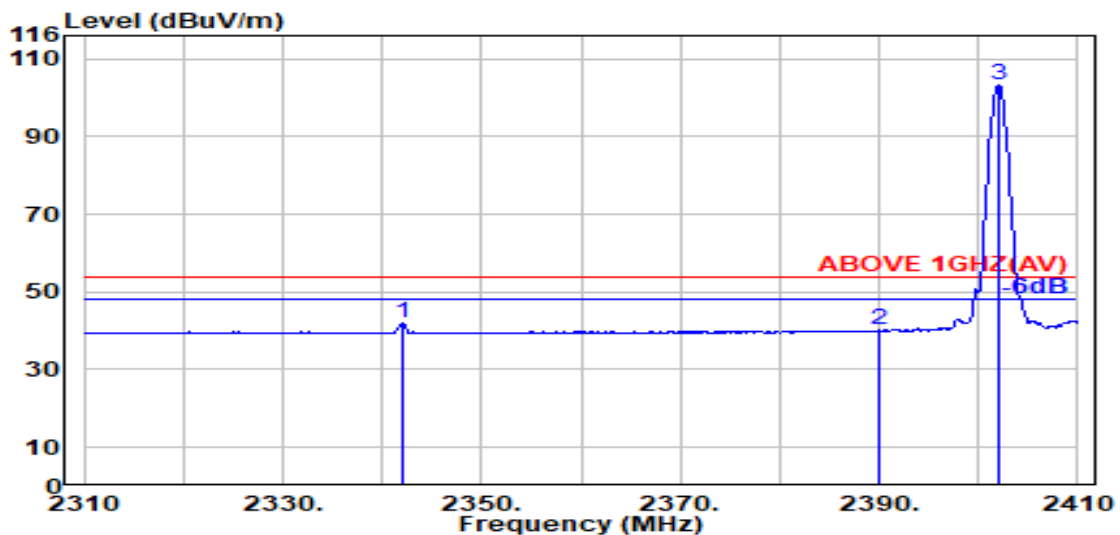
Remark: The “@” means fundamental frequency, it is ignored in this section.

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2376.100	28.29	5.70	39.93	56.93	50.99	74.00	23.01	Peak
2390.000	28.18	5.72	39.93	56.20	50.17	74.00	23.83	Peak
@ 2402.100	28.11	5.74	39.93	109.46	103.39	---	---	Peak

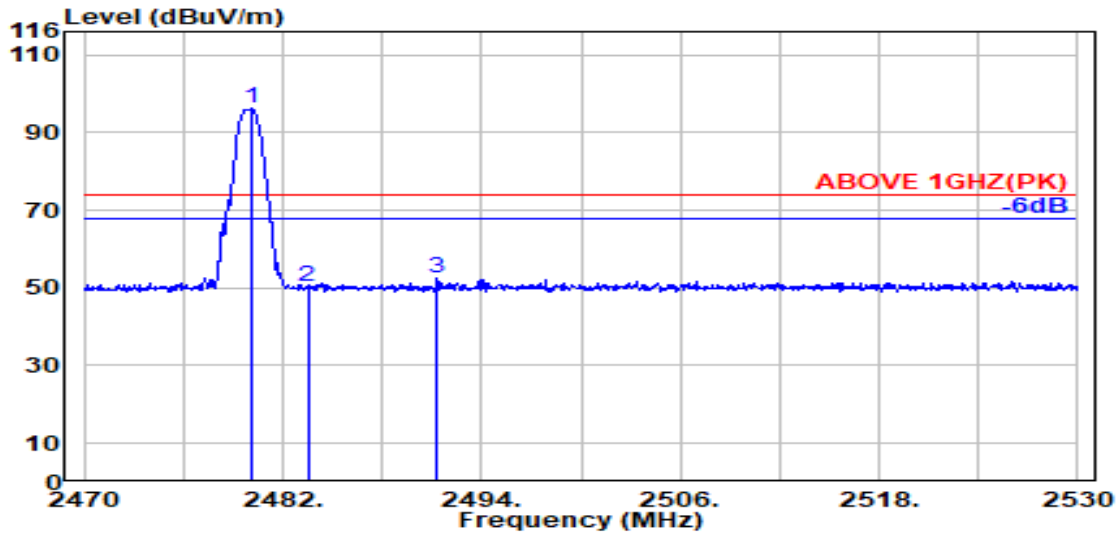


Antenna at Vertical Polarization

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
2342.100	28.44	5.65	39.93	47.67	41.82	54.00	12.18	Average
2390.000	28.18	5.72	39.93	46.09	40.06	54.00	13.94	Average
@ 2402.000	28.11	5.74	39.93	109.21	103.13	---	---	Average

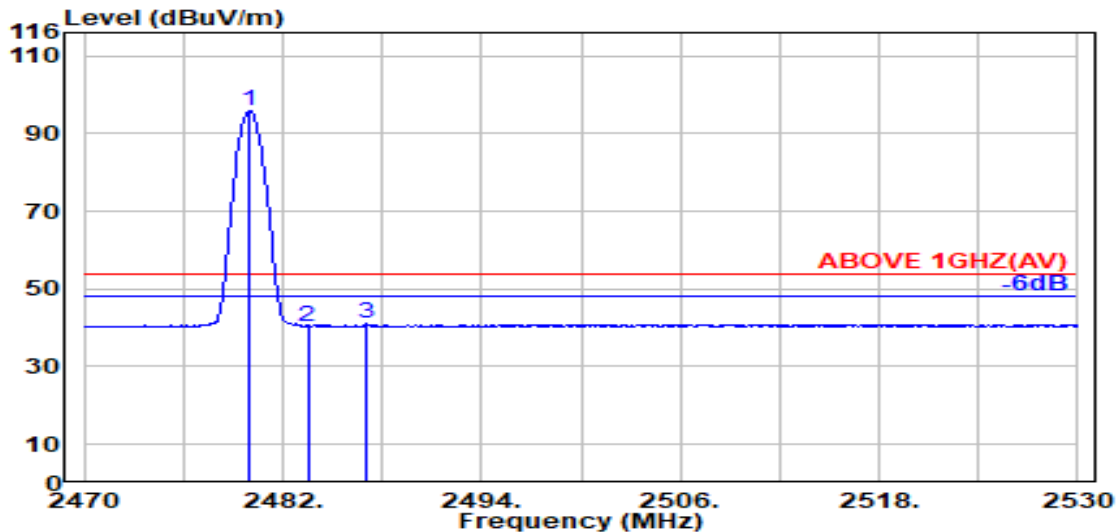
Remark: The “@” means fundamental frequency, it is ignored in this section.

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.150	28.46	5.86	39.92	101.70	96.10	---	---	Peak
2483.500	28.47	5.87	39.92	55.97	50.38	74.00	23.62	Peak
2491.350	28.48	5.88	39.92	57.96	52.40	74.00	21.60	Peak

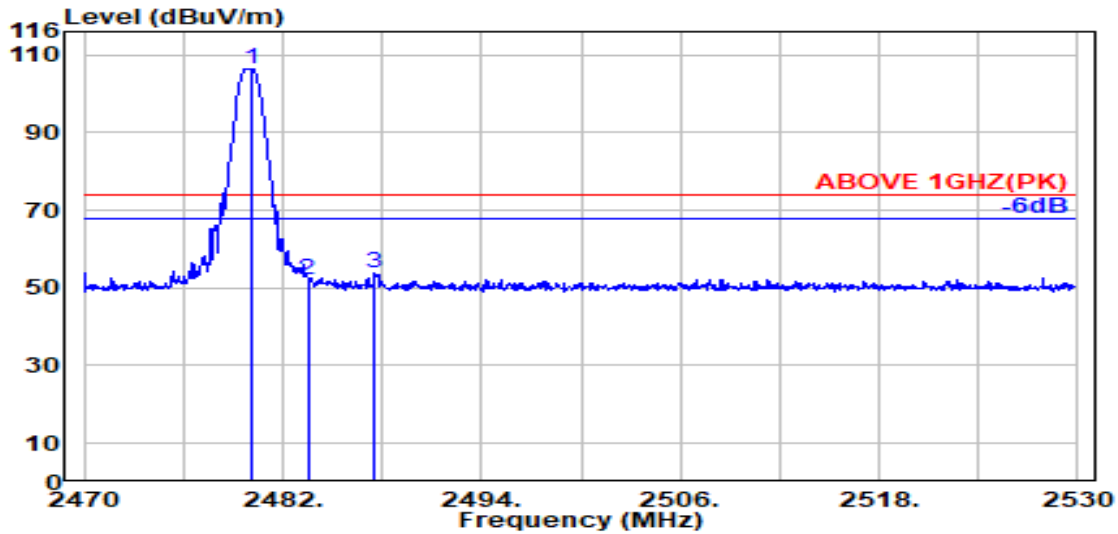


Antenna at Horizontal Polarization

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	39.92	101.32	95.72	---	---	Average
2483.500	28.47	5.87	39.92	46.07	40.48	54.00	13.52	Average
2487.100	28.47	5.87	39.92	46.51	40.94	54.00	13.06	Average

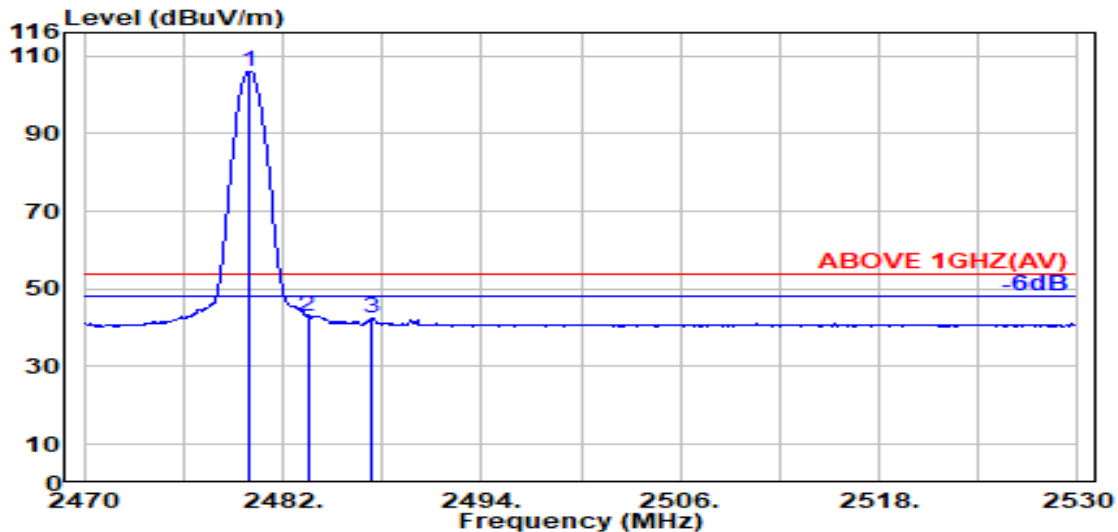
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	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
@ 2480.150	28.46	5.86	39.92	111.94	106.34	---	---	Peak
2483.500	28.47	5.87	39.92	57.77	52.18	74.00	21.82	Peak
2487.550	28.48	5.87	39.92	59.32	53.75	74.00	20.25	Peak

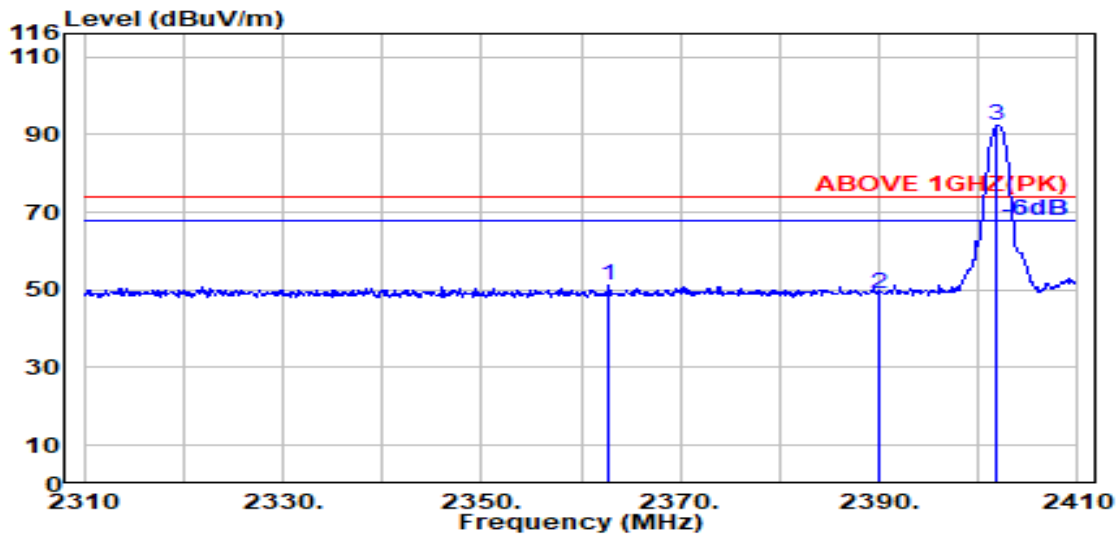


Antenna at Vertical Polarization

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	39.92	111.73	106.13	---	---	Average
2483.500	28.47	5.87	39.92	48.65	43.06	54.00	10.94	Average
2487.400	28.47	5.87	39.92	48.15	42.58	54.00	11.42	Average

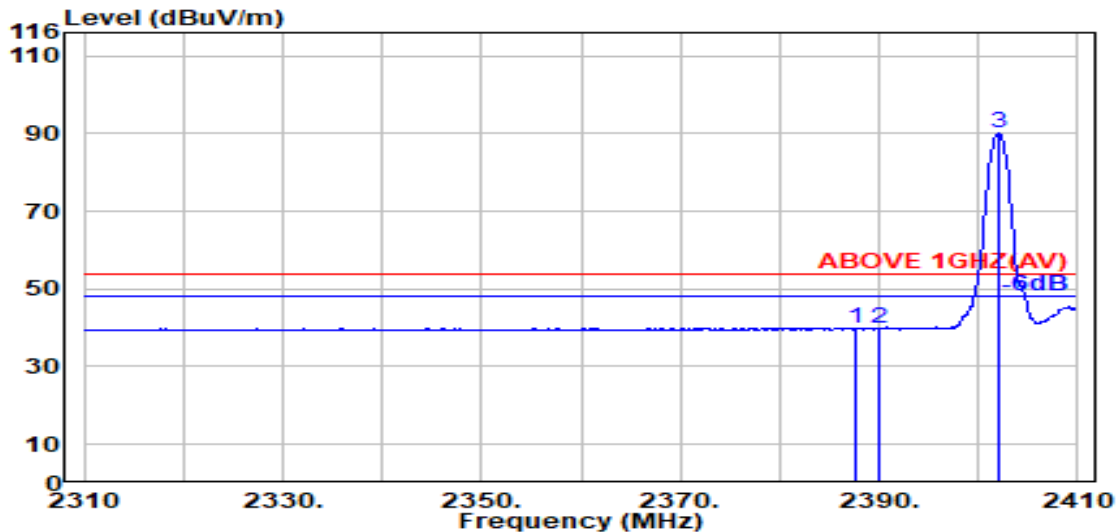
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2362.800	28.40	5.68	39.93	57.02	51.16	74.00	22.84	Peak
2390.000	28.18	5.72	39.93	54.98	48.95	74.00	25.05	Peak
@ 2401.900	28.11	5.74	39.93	98.37	92.29	---	---	Peak

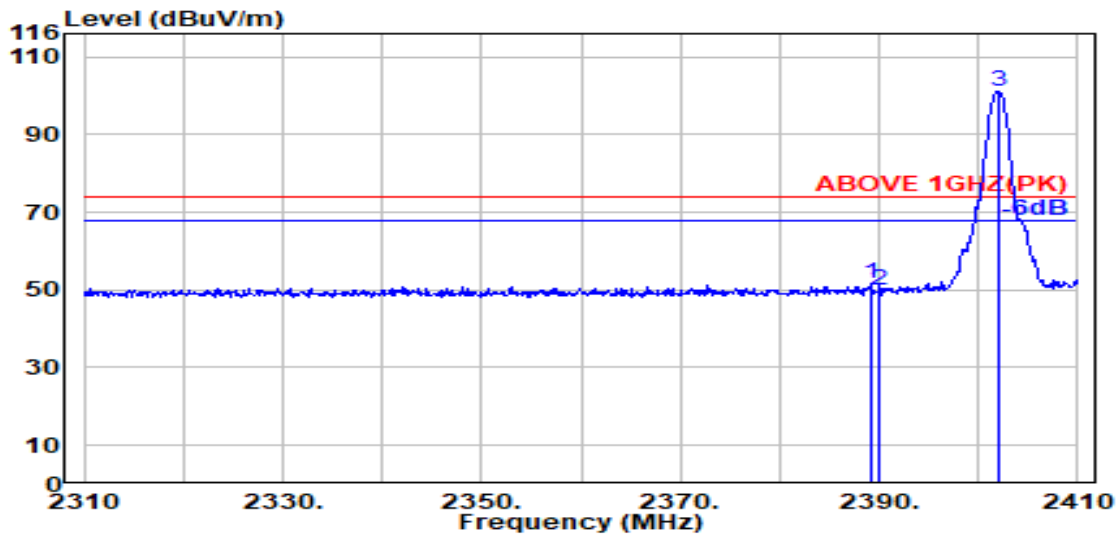


Antenna at Horizontal Polarization

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
2387.700	28.20	5.72	39.93	46.03	40.02	54.00	13.98	Average
2390.000	28.18	5.72	39.93	45.68	39.66	54.00	14.34	Average
@ 2402.100	28.11	5.74	39.93	96.10	90.02	---	---	Average

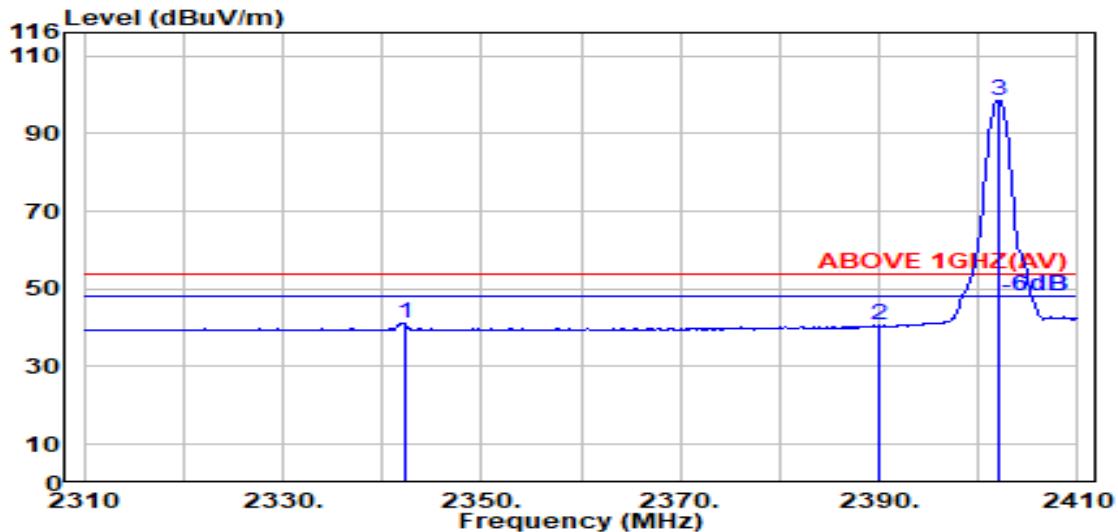
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	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
2389.200	28.19	5.72	39.93	57.48	51.46	74.00	22.54	Peak
2390.000	28.18	5.72	39.93	55.95	49.92	74.00	24.08	Peak
@ 2402.000	28.11	5.74	39.93	107.05	100.98	---	---	Peak

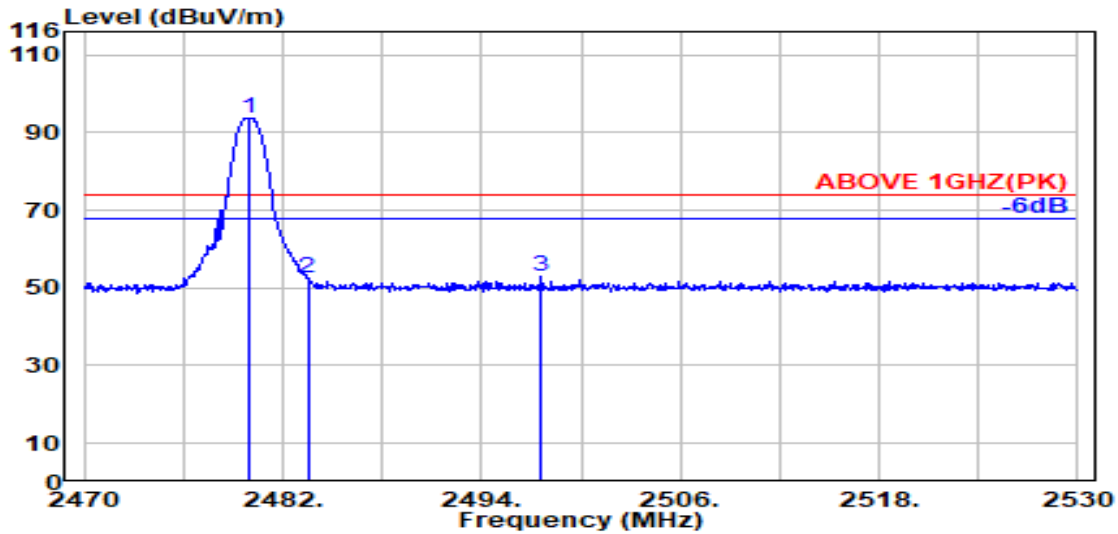


Antenna at Vertical Polarization

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
2342.200	28.44	5.65	39.93	47.08	41.23	54.00	12.77	Average
2390.000	28.18	5.72	39.93	46.58	40.56	54.00	13.44	Average
@ 2402.000	28.11	5.74	39.93	104.75	98.68	---	---	Average

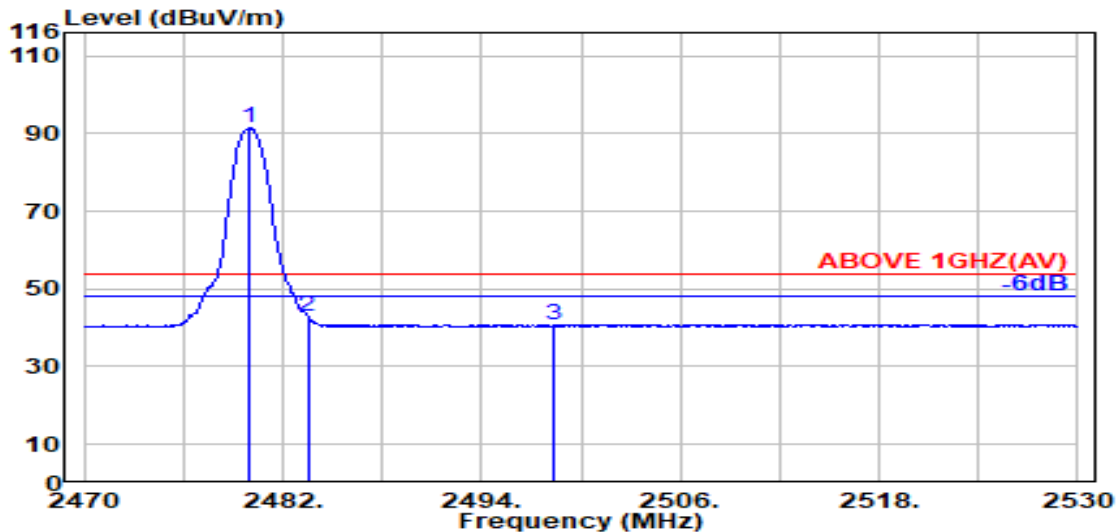
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	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
@ 2479.950	28.46	5.86	39.92	99.43	93.83	---	---	Peak
2483.500	28.47	5.87	39.92	58.12	52.53	74.00	21.47	Peak
2497.600	28.50	5.89	39.92	58.31	52.77	74.00	21.23	Peak

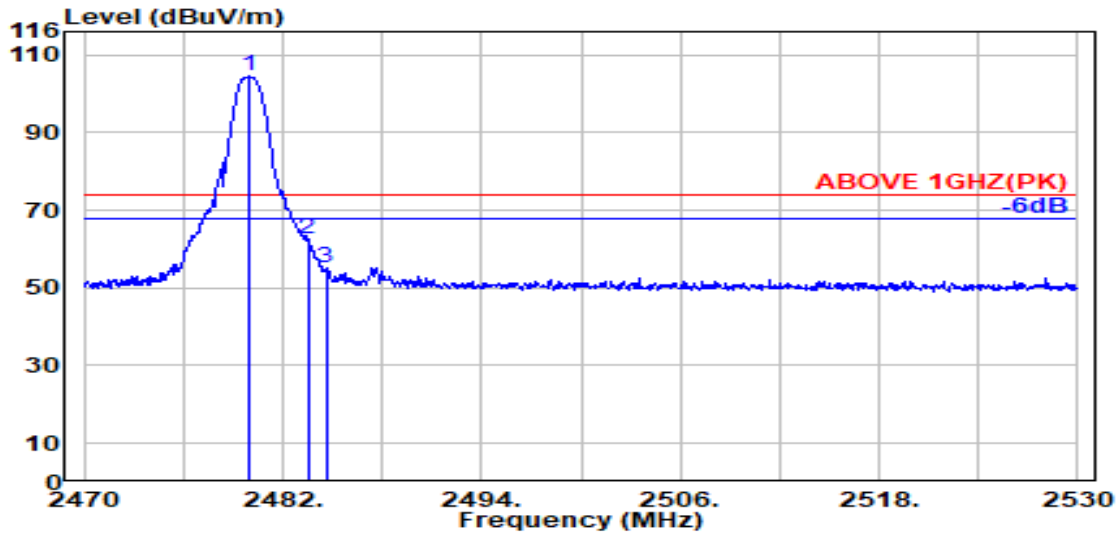


Antenna at Horizontal Polarization

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
@ 2479.950	28.46	5.86	39.92	96.98	91.38	---	---	Average
2483.500	28.47	5.87	39.92	48.66	43.08	54.00	10.92	Average
2498.350	28.50	5.89	39.92	46.41	40.87	54.00	13.13	Average

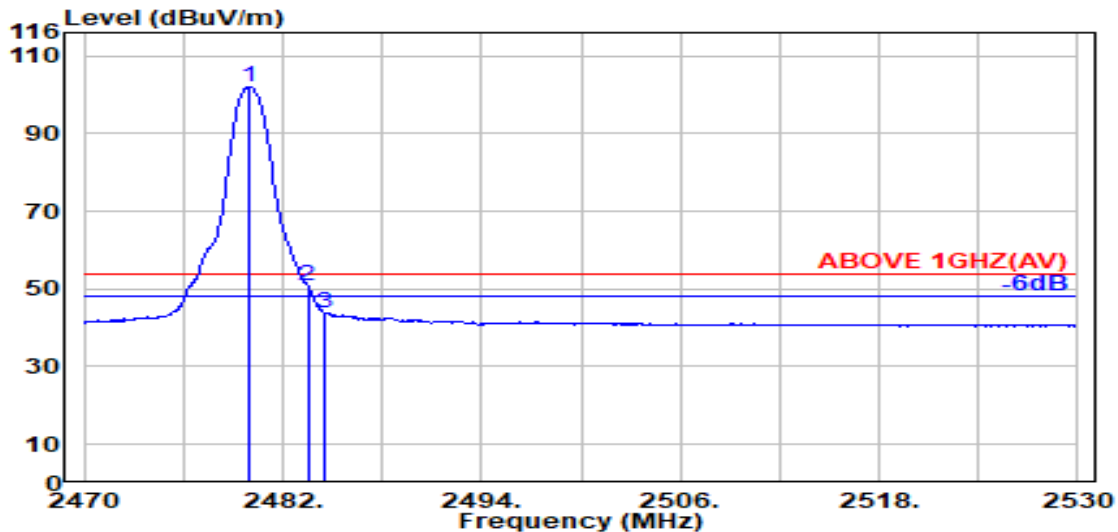
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2479.950	28.46	5.86	39.92	110.07	104.46	---	---	Peak
2483.500	28.47	5.87	39.92	68.05	62.46	74.00	11.54	Peak
2484.600	28.47	5.87	39.92	60.81	55.22	74.00	18.78	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
@ 2479.900	28.46	5.86	39.92	107.68	102.08	---	---	Average
2483.500	28.47	5.87	39.92	56.45	50.86	54.00	3.14	Average
2484.550	28.47	5.87	39.92	49.53	43.94	54.00	10.06	Average

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

A.2.2 Emissions outside the frequency band:

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

Mode	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)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.01	8.53	39.39	38.20	40.34	54.00	13.66	Peak
7206.000	36.30	9.90	39.52	37.43	44.11	54.00	9.89	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
4804.000	33.01	8.53	39.39	38.87	41.01	54.00	12.99	Peak
7206.000	36.30	9.90	39.52	36.93	43.61	54.00	10.39	Peak

Mode	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)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.23	8.64	39.35	38.39	40.90	54.00	13.10	Peak
7323.000	36.55	10.00	39.55	36.81	43.80	54.00	10.20	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
4882.000	33.23	8.64	39.35	38.84	41.35	54.00	12.65	Peak
7323.000	36.55	10.00	39.55	37.54	44.54	54.00	9.46	Peak

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.75	39.32	37.20	40.02	54.00	13.98	Peak
7440.000	36.60	10.10	39.58	35.61	42.74	54.00	11.26	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
4960.000	33.40	8.75	39.32	38.44	41.27	54.00	12.73	Peak
7440.000	36.60	10.10	39.58	36.32	43.45	54.00	10.55	Peak

A.2.3 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.3 MAXIMUM PEAK OUTPUT POWER

Test Date	2023/06/29~07/18	Temp./Hum.	25~26°C/51~55%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.3.1 Maximum Peak Output Power

● SPOT CHECK Power

Mode	Centre Frequency (MHz)	Max. Peak Output Power (dBm)
GFSK	2402	8.96
	2441	9.16
	2480	9.52
8-DPSK	2402	7.08
	2441	7.24
	2480	7.53

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical thus other conducted items is exempt.

● Original FCC ID: BEJNT-17Z90R & IC: 2703H-17Z90R Power

Mode	Centre Frequency (MHz)	Max. Peak Output Power (dBm)	Limit
GFSK	2402	8.99	21dBm (0.125W)
	2441	9.25	
	2480	9.54	
8-DPSK	2402	7.17	
	2441	7.33	
	2480	7.55	