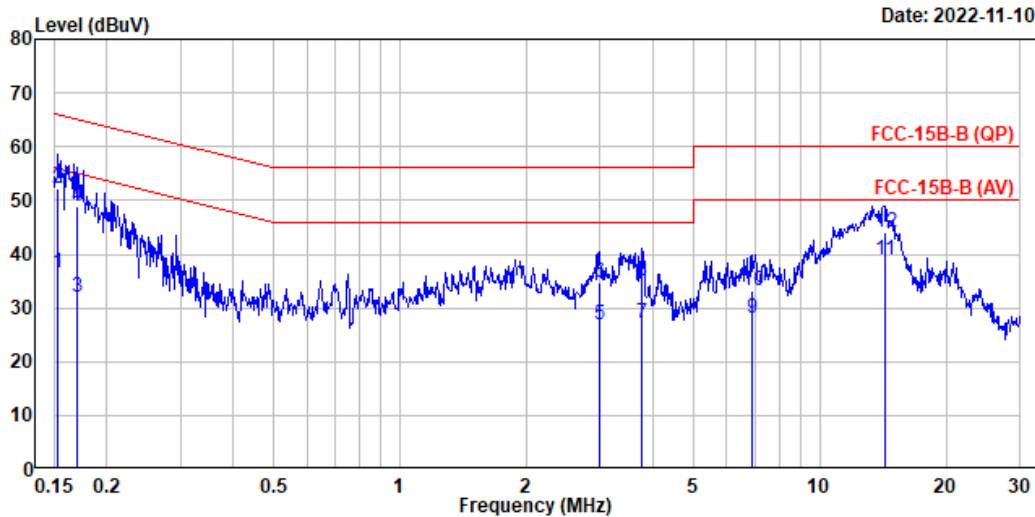


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## A.1 CONDUCTED EMISSION

Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #1(with PM main board)		

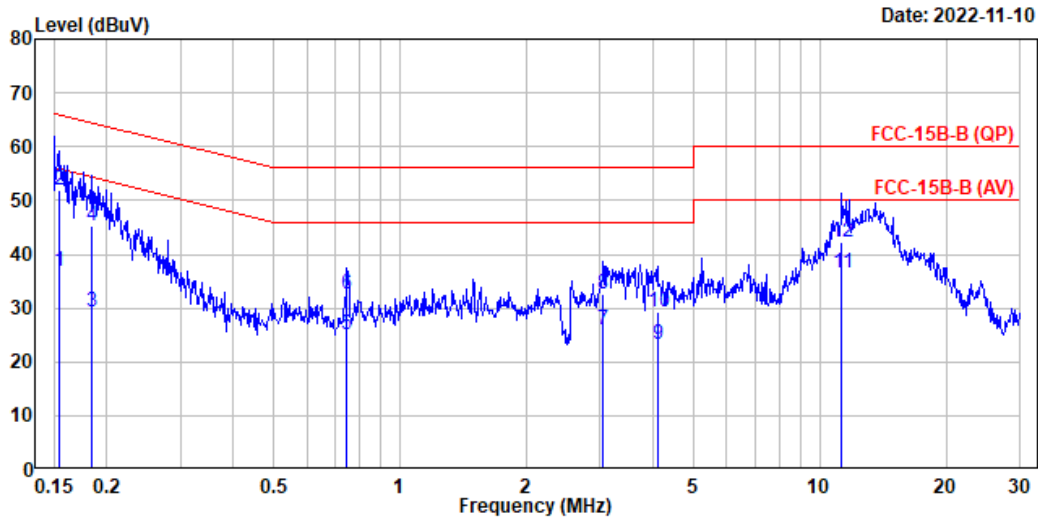


Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Line
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 17Z90R	Test Rating	: 120Vac/60Hz
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.153	10.22	0.03	9.85	16.41	36.51	55.83	19.32	Average
2	0.153	10.22	0.03	9.85	32.14	52.24	65.83	13.59	QP
3	0.171	10.22	0.03	9.85	11.75	31.85	54.92	23.07	Average
4	0.171	10.22	0.03	9.85	28.79	48.89	64.92	16.03	QP
5	3.000	10.27	0.07	9.86	6.77	26.97	46.00	19.03	Average
6	3.000	10.27	0.07	9.86	14.44	34.64	56.00	21.36	QP
7	3.754	10.28	0.08	9.86	6.80	27.02	46.00	18.98	Average
8	3.754	10.28	0.08	9.86	14.88	35.10	56.00	20.90	QP
9	6.895	10.36	0.11	9.87	7.68	28.02	50.00	21.98	Average
10	6.895	10.36	0.11	9.87	12.95	33.29	60.00	26.71	QP
11	14.275	10.53	0.17	9.91	18.26	38.87	50.00	11.13	Average
12	14.275	10.53	0.17	9.91	23.57	44.18	60.00	15.82	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #1(with PM main board)		



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	: FCC-15B-B (QP)	Phase	: Neutral
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 17Z90R	Test Rating	: 120Vac/60Hz
Test Mode	: Operating		

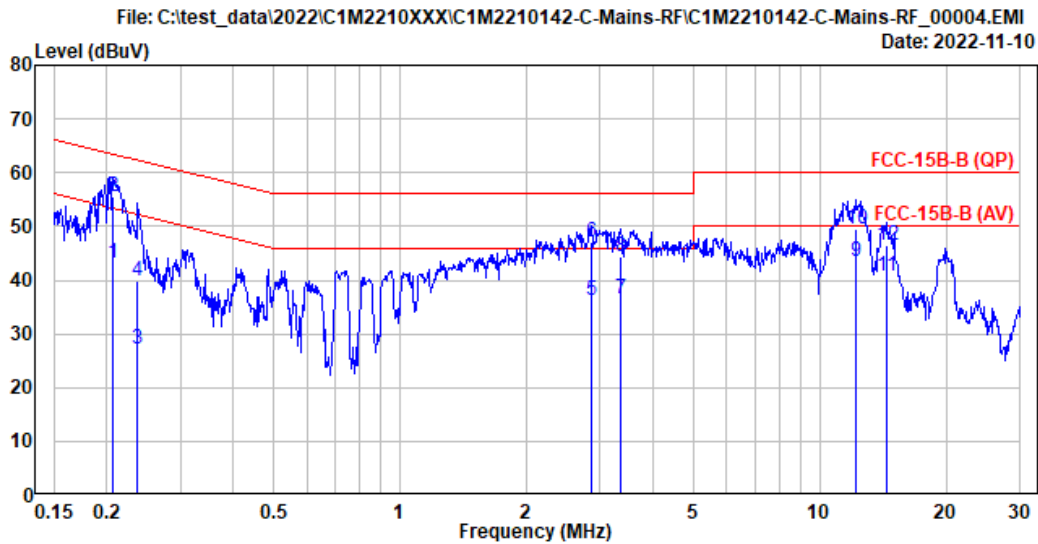
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	10.34	0.03	9.85	16.58	36.80	55.79	18.99	Average
2	0.154	10.34	0.03	9.85	31.64	51.86	65.79	13.93	QP
3	0.185	10.33	0.03	9.85	9.17	29.38	54.26	24.88	Average
4	0.185	10.33	0.03	9.85	25.06	45.27	64.26	18.99	QP
5	0.747	10.33	0.04	9.85	4.82	25.04	46.00	20.96	Average
6	0.747	10.33	0.04	9.85	12.33	32.55	56.00	23.45	QP
7	3.045	10.38	0.07	9.86	5.57	25.88	46.00	20.12	Average
8	3.045	10.38	0.07	9.86	12.29	32.60	56.00	23.40	QP
9	4.106	10.41	0.08	9.86	2.76	23.11	46.00	22.89	Average
10	4.106	10.41	0.08	9.86	8.85	29.20	56.00	26.80	QP
11	11.294	10.70	0.15	9.90	15.75	36.50	50.00	13.50	Average
12	11.294	10.70	0.15	9.90	21.41	42.16	60.00	17.84	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

**Audix Technology Corp.**  
 No. 491, Zhongfu Rd., Linkou Dist.,  
 New Taipei City 244, Taiwan

**Tel: +886 2 26099301**  
**Fax: +886 2 26099303**

Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #2 (with GM main board)		



Site No.	: No.8 Shielded Room	Data No.	: 4
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Neutral
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 17290R	Test Rating	: 120Vac/60Hz
Test Mode	: Operating		

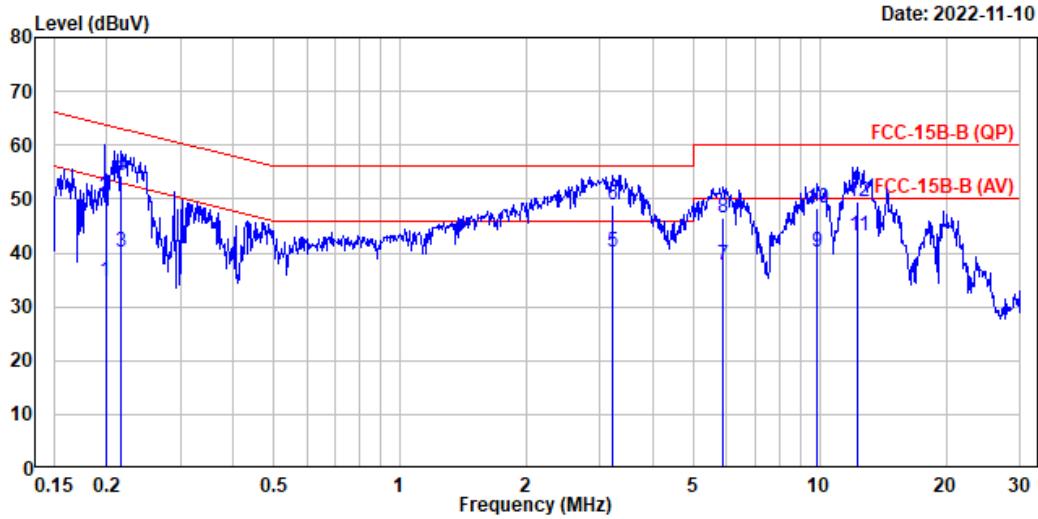
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.206	10.32	0.03	9.85	22.96	43.16	53.35	10.19	Average
2	0.206	10.32	0.03	9.85	35.36	55.56	63.35	7.79	QP
3	0.237	10.32	0.03	9.85	7.03	27.23	52.19	24.96	Average
4	0.237	10.32	0.03	9.85	19.57	39.77	62.19	22.42	QP
5	2.854	10.38	0.07	9.86	16.02	36.33	46.00	9.67	Average
6	2.854	10.38	0.07	9.86	26.87	47.18	56.00	8.82	QP
7	3.347	10.39	0.07	9.86	16.28	36.60	46.00	9.40	Average
8	3.347	10.39	0.07	9.86	23.92	44.24	56.00	11.76	QP
9	12.232	10.75	0.15	9.90	22.64	43.44	50.00	6.56	Average
10	12.232	10.75	0.15	9.90	28.65	49.45	60.00	10.55	QP
11	14.418	10.85	0.17	9.91	19.92	40.85	50.00	9.15	Average
12	14.418	10.85	0.17	9.91	25.57	46.50	60.00	13.50	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

**Audix Technology Corp.**  
 No. 491, Zhongfu Rd., Linkou Dist.,  
 New Taipei City 244, Taiwan

**Tel: +886 2 26099301**  
**Fax: +886 2 26099303**

Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #2 (with GM main board)		



Site No.	: No.8 Shielded Room	Data No.	: 3
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Line
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 17290R	Test Rating	: 120Vac/60Hz
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	0.199	10.22	0.03	9.85	14.76	34.86	53.66	18.80	Average
2	0.199	10.22	0.03	9.85	30.19	50.29	63.66	13.37	QP
3	0.216	10.22	0.03	9.85	20.05	40.15	52.98	12.83	Average
4	0.216	10.22	0.03	9.85	34.34	54.44	62.98	8.54	QP
5	3.216	10.27	0.07	9.86	19.92	40.12	46.00	5.88	Average
6	3.216	10.27	0.07	9.86	28.57	48.77	56.00	7.23	QP
7	5.879	10.34	0.10	9.87	17.47	37.78	50.00	12.22	Average
8	5.879	10.34	0.10	9.87	26.22	46.53	60.00	13.47	QP
9	9.872	10.42	0.14	9.89	19.78	40.23	50.00	9.77	Average
10	9.872	10.42	0.14	9.89	27.94	48.39	60.00	11.61	QP
11	12.354	10.49	0.15	9.90	22.76	43.30	50.00	6.70	Average
12	12.354	10.49	0.15	9.90	28.83	49.37	60.00	10.63	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

## A.2 RADIATED EMISSION

Test Date	2022/10/20~12/11	Temp./Hum.	22~24°C/51~61%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Martin Chen

### 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

## ● Test SKU #1 (with PM main board)

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
35.820	21.75	1.55	26.48	33.78	30.60	40.00	9.40	Peak
123.120	17.93	2.89	26.14	33.41	28.09	43.50	15.41	Peak
378.230	21.18	5.69	26.28	37.10	37.69	46.00	8.31	Peak
485.900	23.24	6.65	27.04	35.26	38.11	46.00	7.89	Peak
860.320	25.74	8.55	27.11	30.92	38.10	46.00	7.90	Peak
970.900	26.82	9.15	26.75	28.58	37.80	54.00	16.20	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
33.880	22.50	1.51	0.00	14.39	38.40	40.00	1.60	QP
123.120	17.93	2.89	26.14	38.37	33.05	43.50	10.45	Peak
378.230	21.18	5.69	26.28	36.74	37.33	46.00	8.67	Peak
485.900	23.24	6.65	27.04	35.66	38.51	46.00	7.49	Peak
614.910	24.44	7.18	27.41	35.58	39.79	46.00	6.21	Peak
958.290	26.67	9.08	26.78	30.27	39.24	46.00	6.76	Peak

## ● Test SKU #2 (with GM main board)

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
30.000	23.27	1.41	26.49	31.28	29.47	40.00	10.53	Peak
101.780	16.95	2.63	26.28	33.81	27.11	43.50	16.39	Peak
260.860	18.68	4.36	25.67	37.52	34.89	46.00	11.11	Peak
378.230	21.18	5.69	26.28	38.87	39.46	46.00	6.54	Peak
485.900	23.24	6.65	27.04	36.05	38.90	46.00	7.10	Peak
960.230	26.67	9.08	26.78	29.05	38.02	54.00	15.98	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
30.970	23.07	1.43	0.00	13.91	38.41	40.00	1.59	QP
181.320	15.52	3.52	25.86	43.55	36.73	43.50	6.77	Peak
378.230	21.18	5.69	26.28	38.55	39.14	46.00	6.86	Peak
485.900	23.24	6.65	27.04	35.92	38.77	46.00	7.23	Peak
919.490	26.24	8.87	26.93	29.61	37.79	46.00	8.21	Peak
1000.000	27.11	9.29	26.66	27.82	37.56	54.00	16.44	Peak

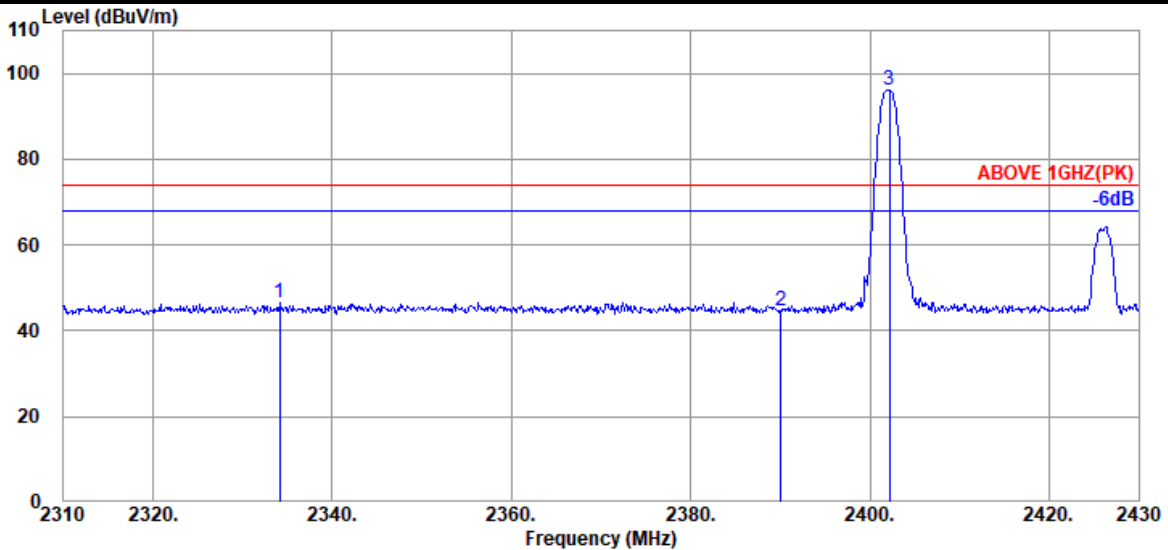


A.2.1.3 Frequency Above 1 GHz to 10<sup>th</sup> harmonics

**Band Edge:**

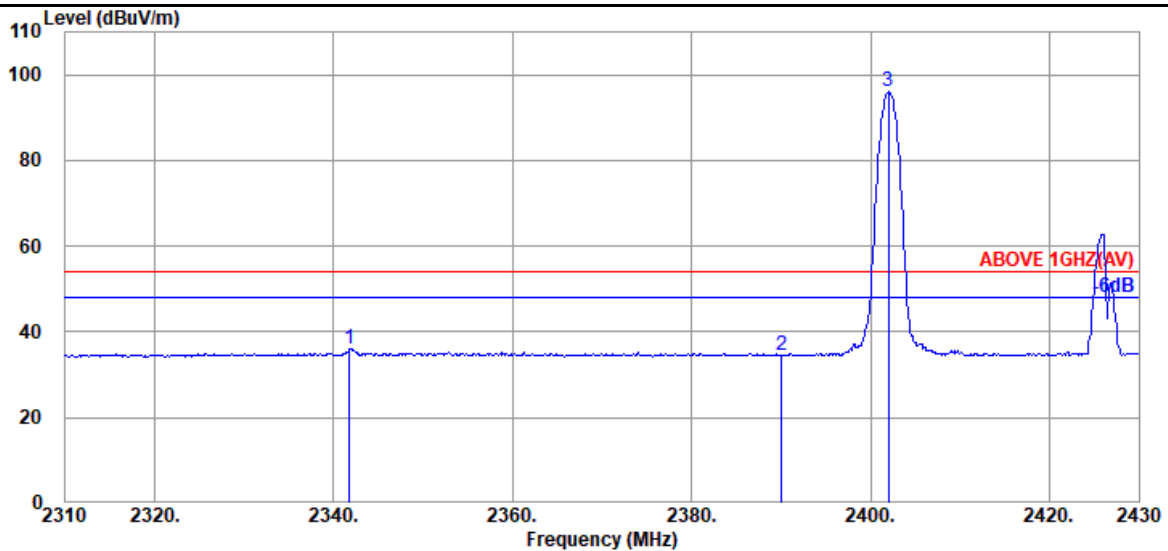
- **Test SKU #1 (with INPAQ Antenna and PM main board)**

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2334.120	28.35	5.63	39.94	52.48	46.52	74.00	27.48	Peak
2390.040	28.21	5.72	39.93	50.57	44.57	74.00	29.43	Peak
@ 2402.160	28.10	5.74	39.93	102.20	96.11	---	---	Peak



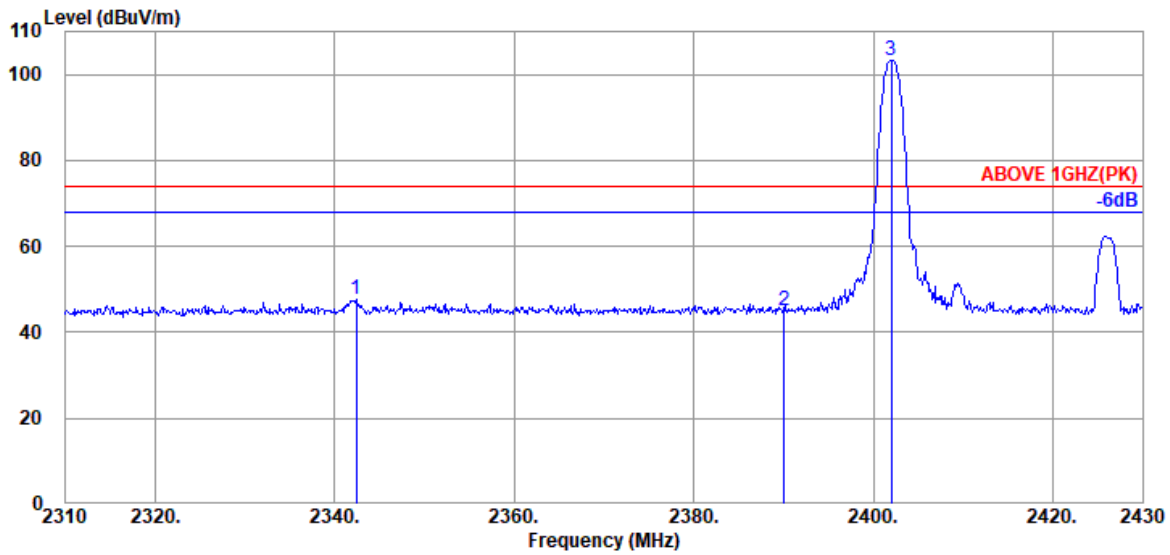
Antenna at Horizontal Polarization

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
2341.800	28.40	5.64	39.93	41.85	35.96	54.00	18.04	Average
2390.040	28.21	5.72	39.93	40.56	34.56	54.00	19.44	Average
@ 2402.040	28.10	5.74	39.93	102.08	95.99	---	---	Average

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

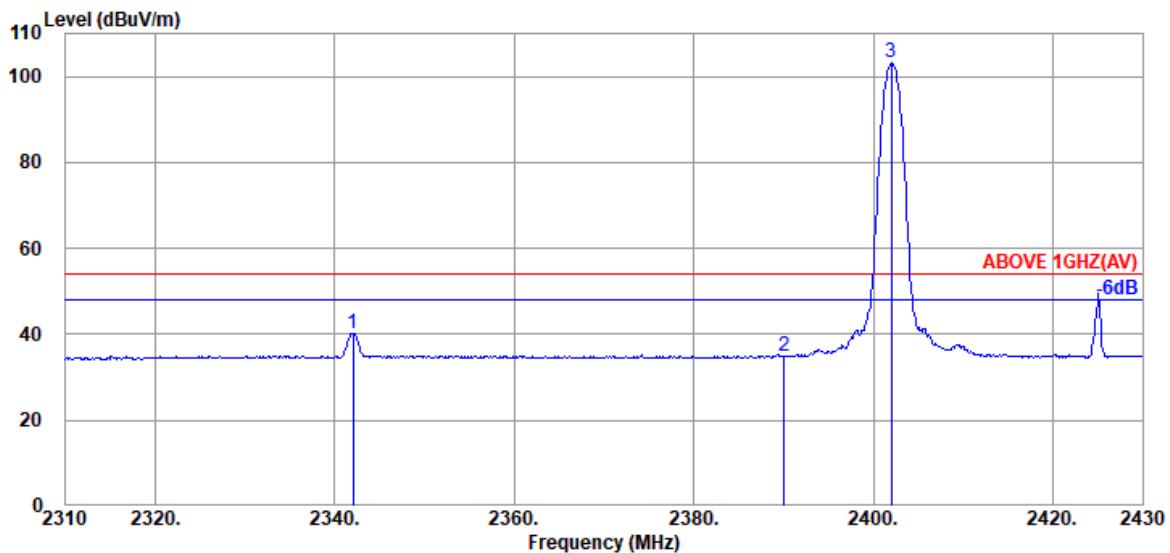


Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

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
2342.400	28.40	5.64	39.93	53.64	47.75	74.00	26.25	Peak
2390.040	28.21	5.72	39.93	50.96	44.96	74.00	29.04	Peak
@ 2402.040	28.10	5.74	39.93	109.24	103.15	---	---	Peak

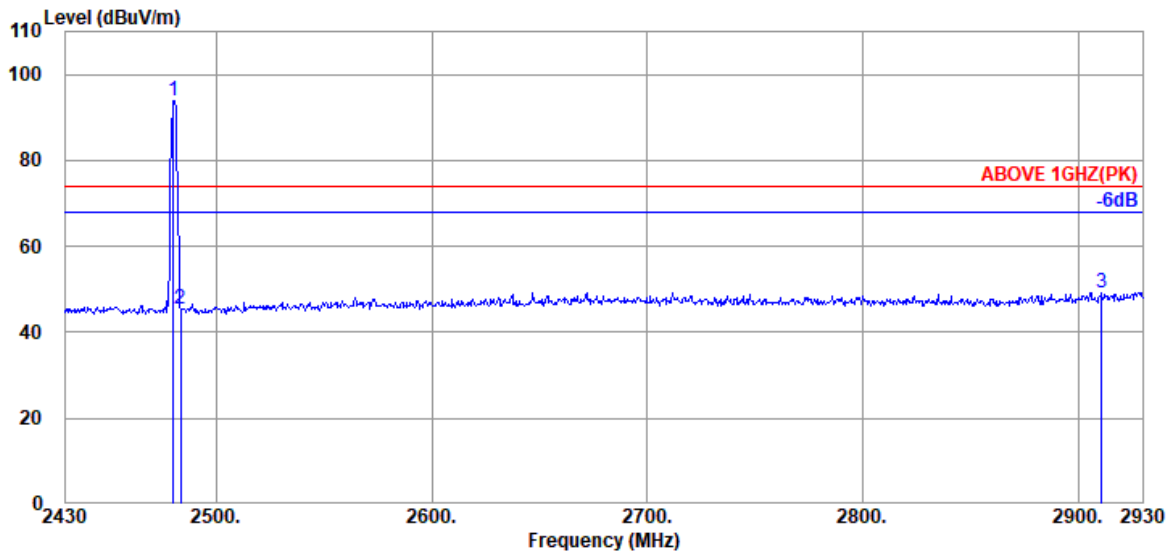


Antenna at Vertical Polarization

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
2342.040	28.40	5.64	39.93	46.23	40.34	54.00	13.66	Average
2390.040	28.21	5.72	39.93	40.87	34.87	54.00	19.13	Average
@ 2402.040	28.10	5.74	39.93	109.15	103.06	---	---	Average

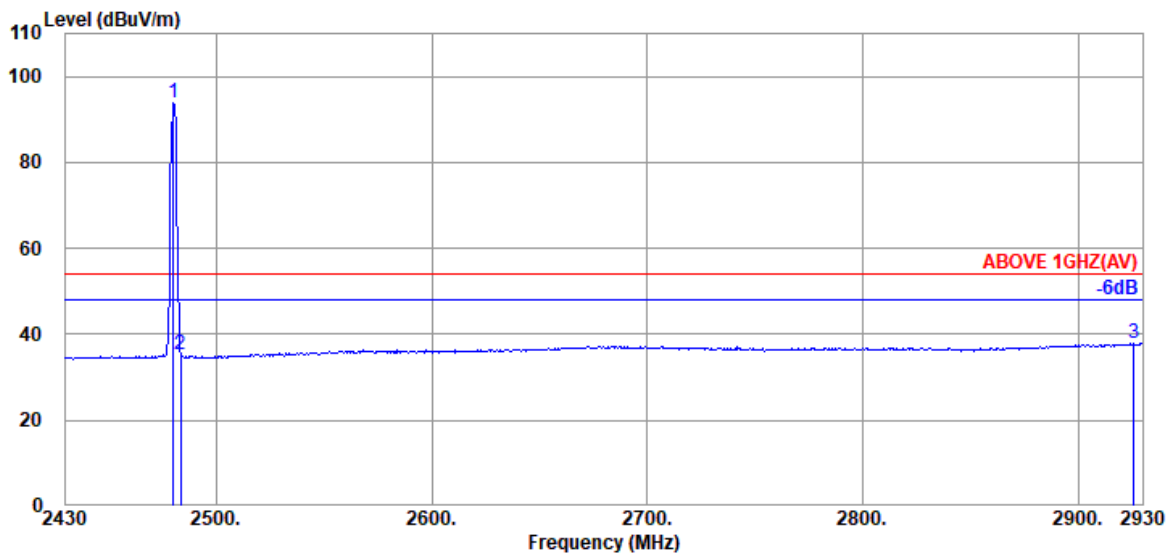
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.000	28.46	5.86	39.92	99.42	93.82	---	---	Peak
2483.500	28.47	5.87	39.92	50.88	45.30	74.00	28.70	Peak
2911.000	29.87	6.82	40.04	52.71	49.36	74.00	24.64	Peak

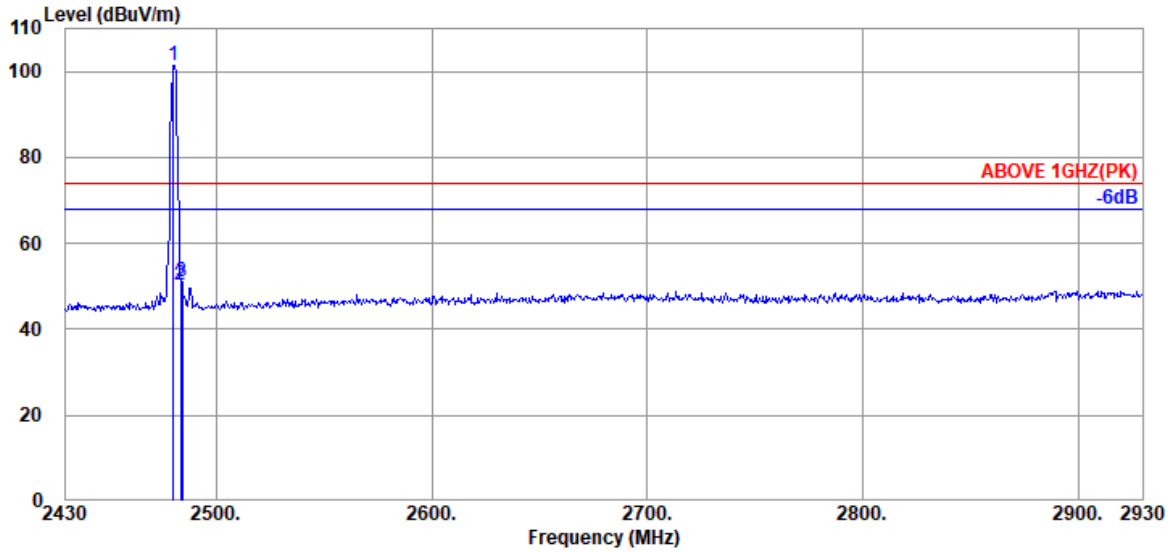


Antenna at Horizontal Polarization

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	99.36	93.76	---	---	Average
2483.500	28.47	5.87	39.92	40.99	35.41	54.00	18.59	Average
2926.000	29.95	6.84	40.04	41.22	37.97	54.00	16.03	Average

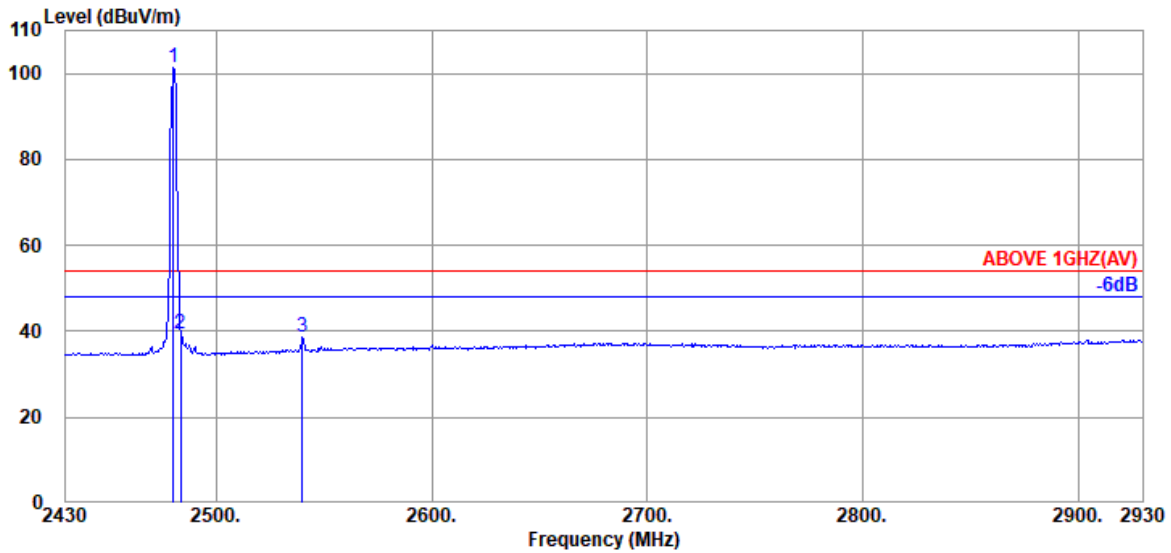
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.000	28.46	5.86	39.92	107.04	101.44	---	---	Peak
2483.500	28.47	5.87	39.92	56.05	50.47	74.00	23.53	Peak
2484.000	28.47	5.87	39.92	56.51	50.93	74.00	23.07	Peak

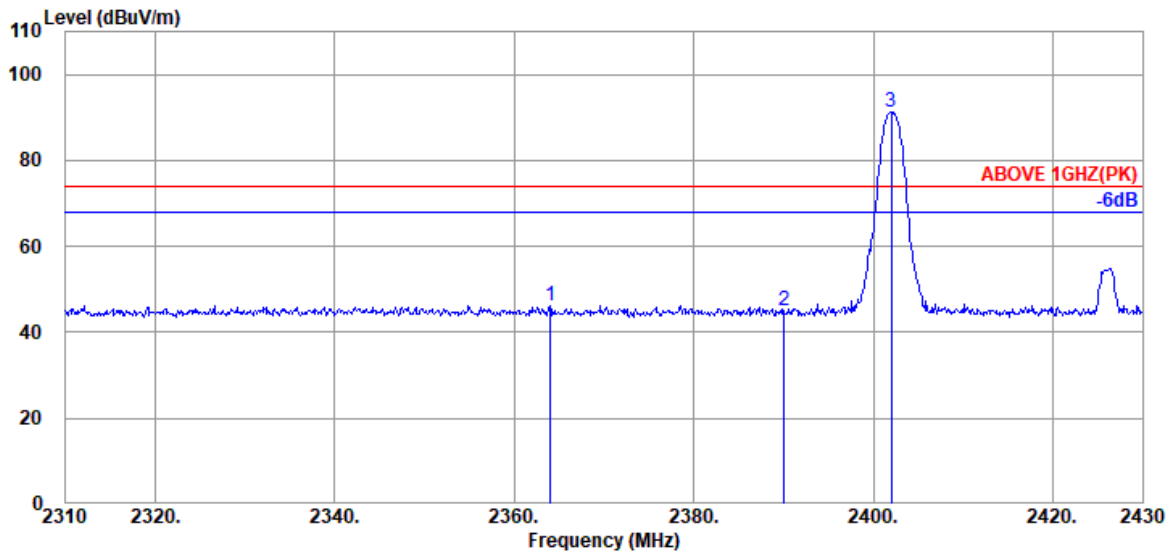


Antenna at Vertical Polarization

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	106.85	101.25	---	---	Average
2483.500	28.47	5.87	39.92	45.17	39.59	54.00	14.41	Average
2540.000	28.76	6.00	39.93	43.86	38.69	54.00	15.31	Average

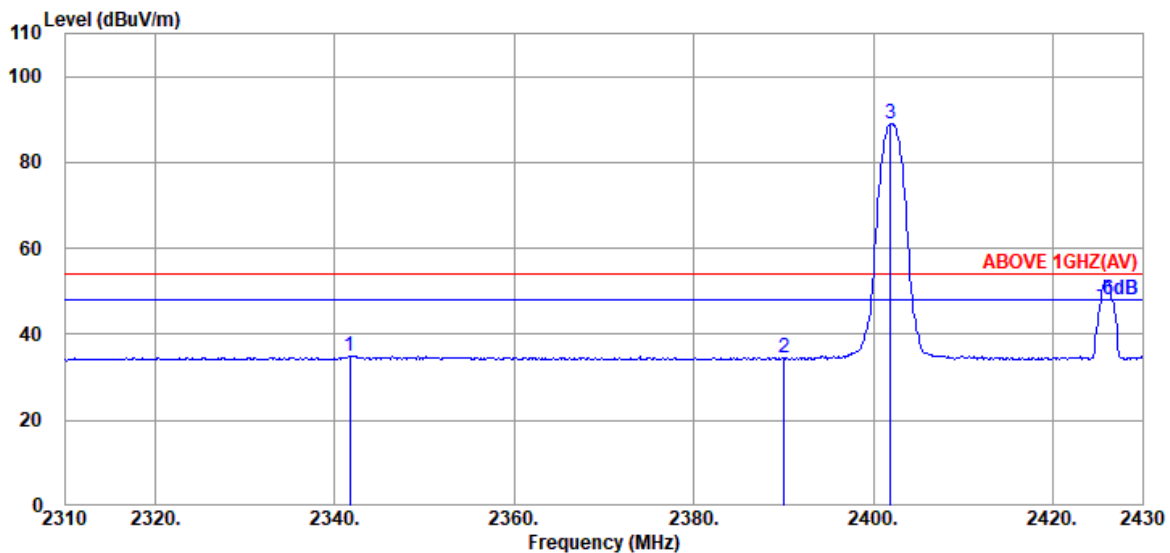
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2364.000	28.39	5.69	39.93	52.13	46.28	74.00	27.72	Peak
2390.040	28.21	5.72	39.93	50.99	44.99	74.00	29.01	Peak
@ 2402.040	28.10	5.74	39.93	97.48	91.39	---	---	Peak

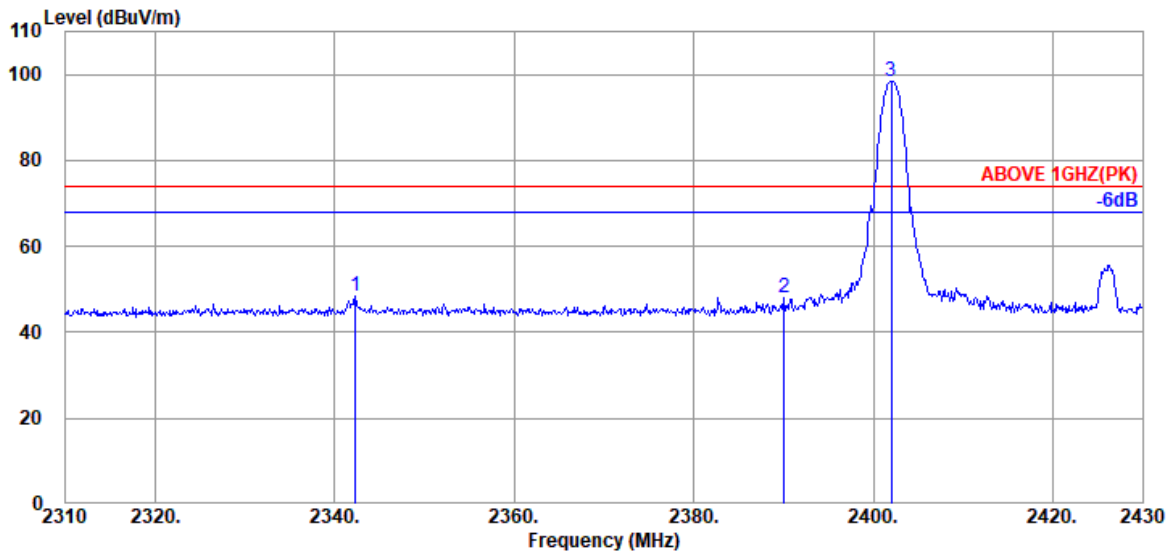


Antenna at Horizontal Polarization

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
2341.680	28.40	5.64	39.93	40.99	35.10	54.00	18.90	Average
2390.040	28.21	5.72	39.93	40.42	34.42	54.00	19.58	Average
@ 2401.920	28.10	5.74	39.93	95.23	89.14	---	---	Average

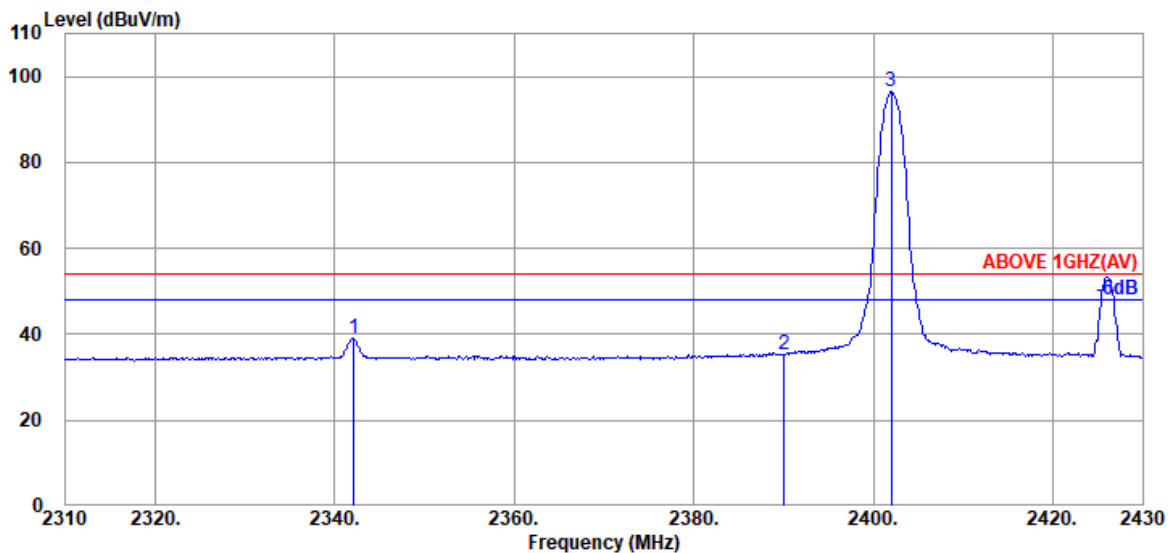
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2342.280	28.40	5.64	39.93	54.23	48.34	74.00	25.66	Peak
2390.040	28.21	5.72	39.93	53.91	47.91	74.00	26.09	Peak
@ 2402.040	28.10	5.74	39.93	104.58	98.49	---	---	Peak

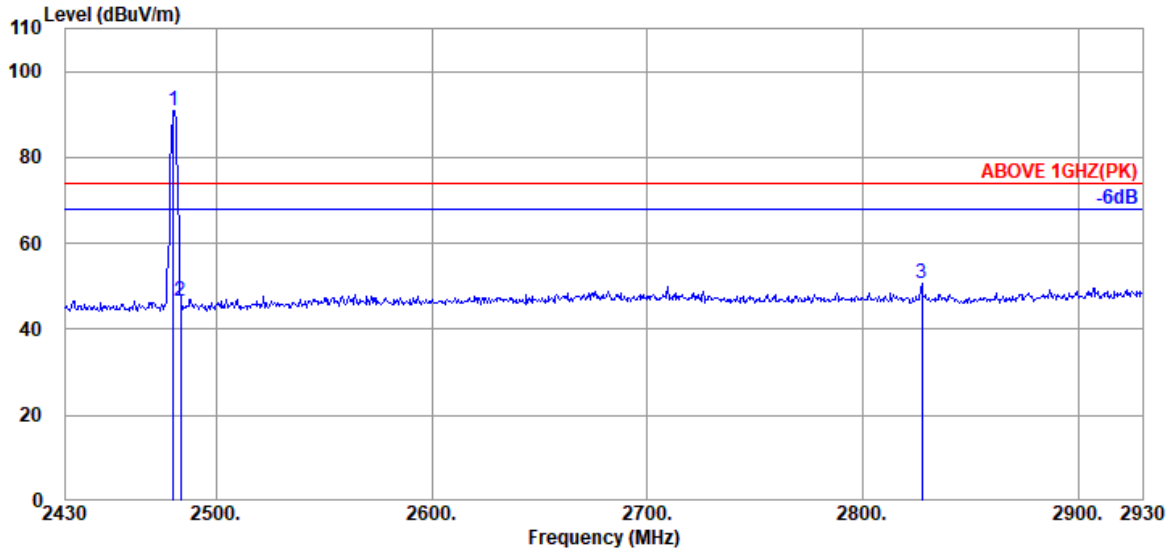


Antenna at Vertical Polarization

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
2342.160	28.40	5.64	39.93	45.08	39.19	54.00	14.81	Average
2390.040	28.21	5.72	39.93	41.16	35.16	54.00	18.84	Average
@ 2402.040	28.10	5.74	39.93	102.41	96.32	---	---	Average

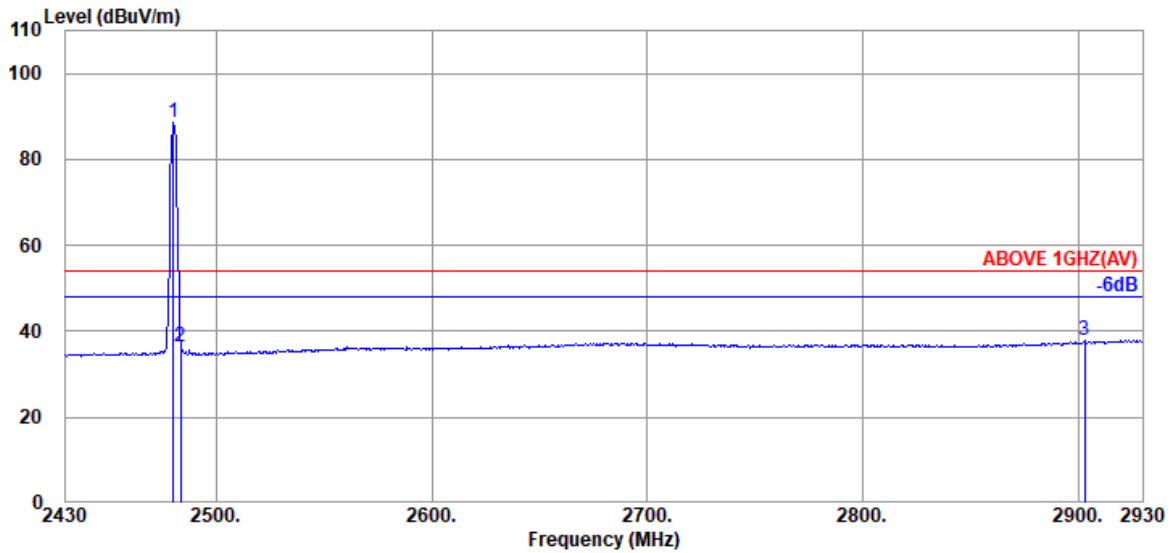
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.000	28.46	5.86	39.92	96.38	90.78	---	---	Peak
2483.500	28.47	5.87	39.92	52.27	46.69	74.00	27.31	Peak
2827.500	29.10	6.65	40.01	54.98	50.72	74.00	23.28	Peak

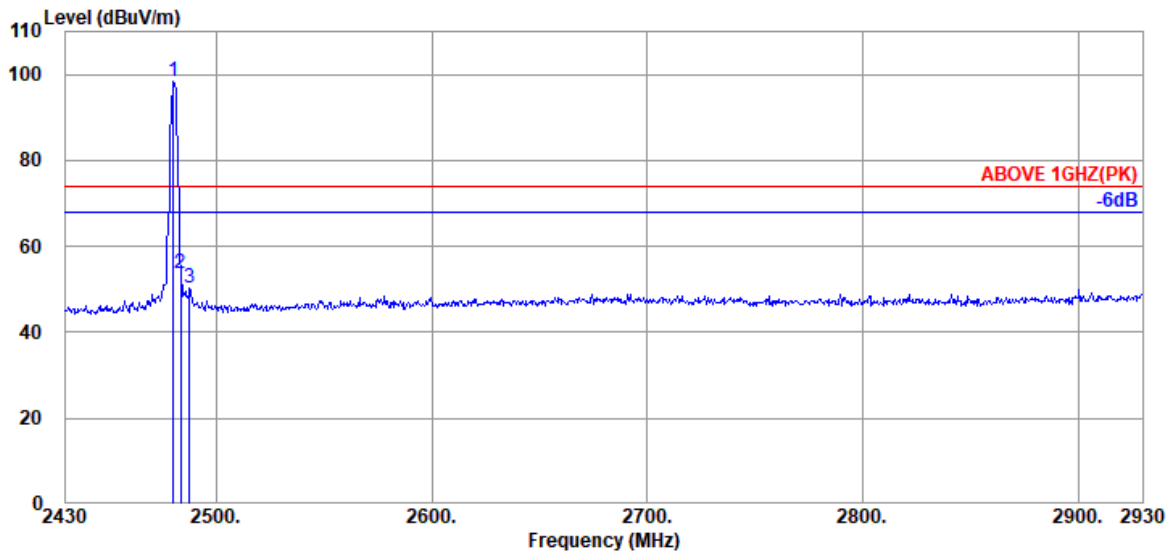


Antenna at Horizontal Polarization

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	94.01	88.41	---	---	Average
2483.500	28.47	5.87	39.92	42.01	36.43	54.00	17.57	Average
2903.000	29.78	6.81	40.03	41.36	37.92	54.00	16.08	Average

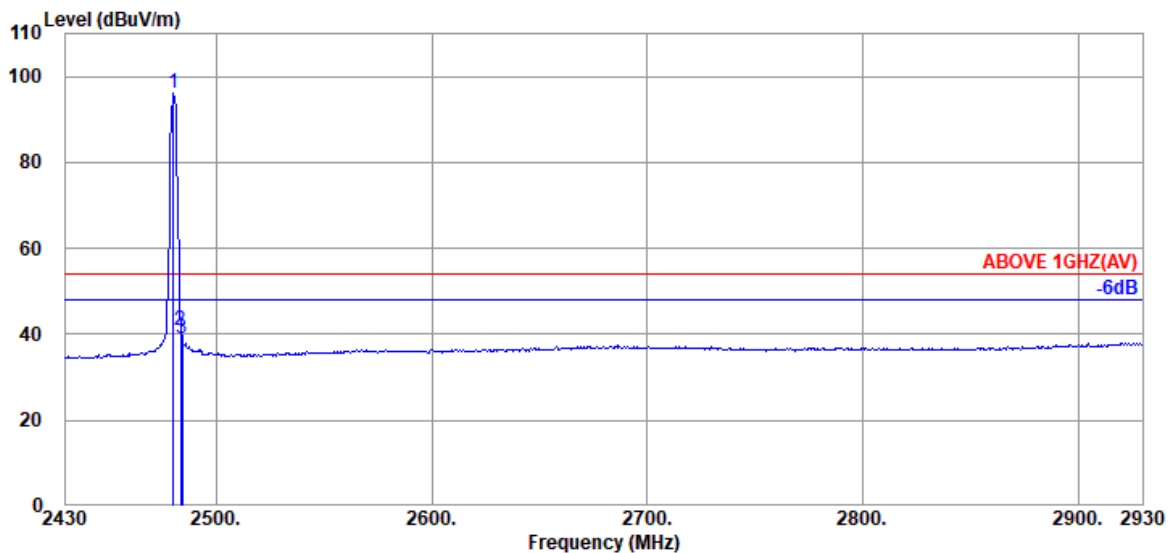
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.000	28.46	5.86	39.92	103.86	98.26	---	---	Peak
2483.500	28.47	5.87	39.92	59.41	53.83	74.00	20.17	Peak
2487.500	28.47	5.87	39.92	55.76	50.18	74.00	23.82	Peak



Antenna at Vertical Polarization

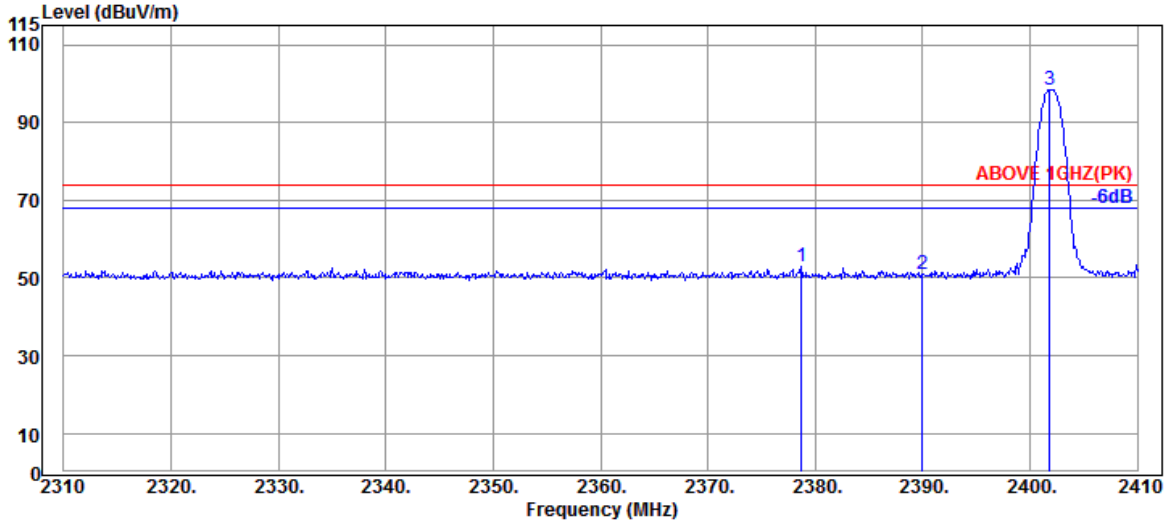
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	101.53	95.93	---	---	Average
2483.500	28.47	5.87	39.92	46.60	41.02	54.00	12.98	Average
2484.000	28.47	5.87	39.92	44.73	39.15	54.00	14.85	Average

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



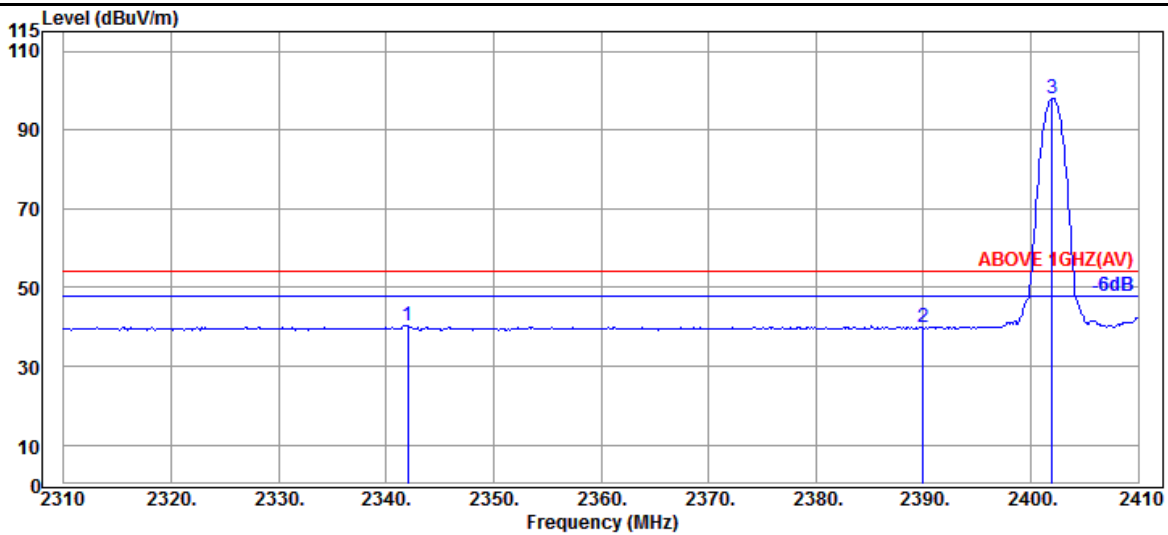
● Test SKU #2 (with LUXSHARE-ICT Antenna and PM main board)

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2378.700	32.00	5.71	34.50	49.74	52.95	74.00	21.05	Peak
2390.000	32.00	5.72	34.51	47.96	51.17	74.00	22.83	Peak
@ 2401.800	32.00	5.74	34.51	95.03	98.26	---	---	Peak

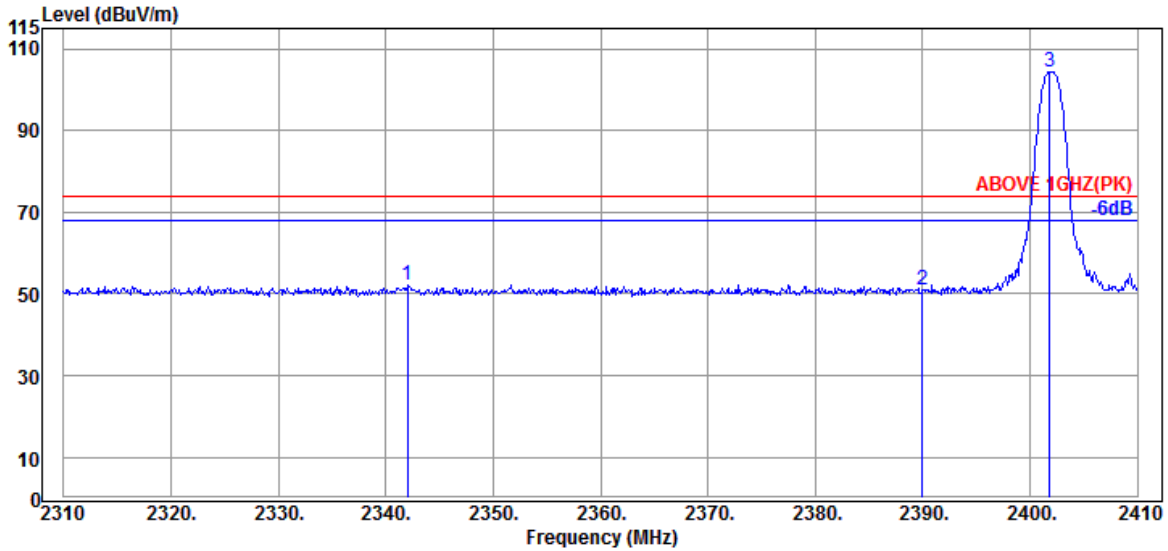


Antenna at Horizontal Polarization

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
2342.000	32.05	5.64	34.50	37.22	40.41	54.00	13.59	Average
2390.000	32.00	5.72	34.51	36.51	39.72	54.00	14.28	Average
@ 2402.000	32.00	5.74	34.51	94.85	98.08	---	---	Average

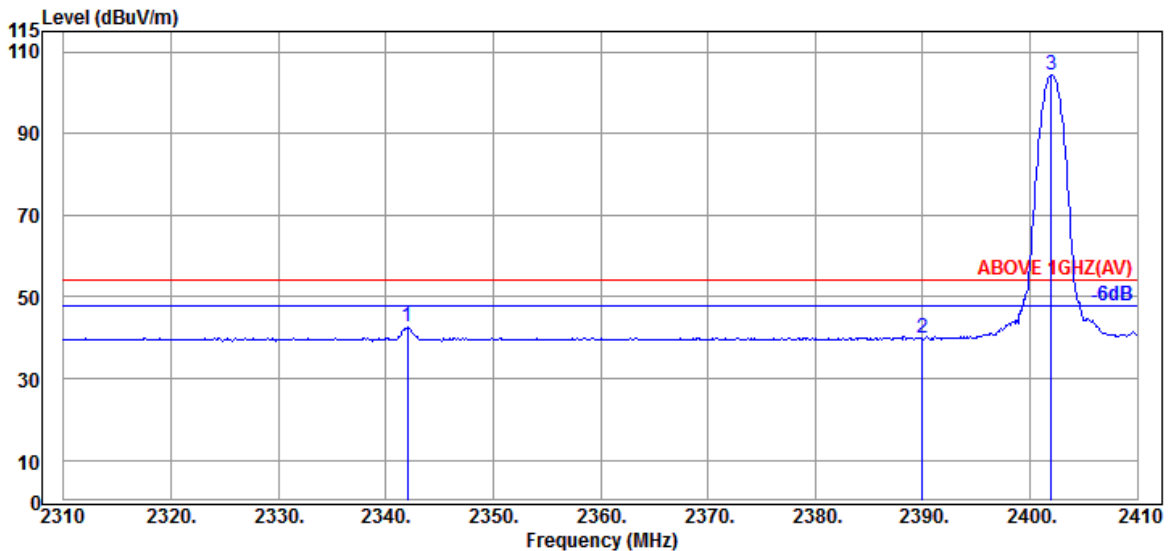
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2342.000	32.05	5.64	34.50	49.06	52.25	74.00	21.75	Peak
2390.000	32.00	5.72	34.51	47.69	50.90	74.00	23.10	Peak
@ 2401.800	32.00	5.74	34.51	101.10	104.33	---	---	Peak

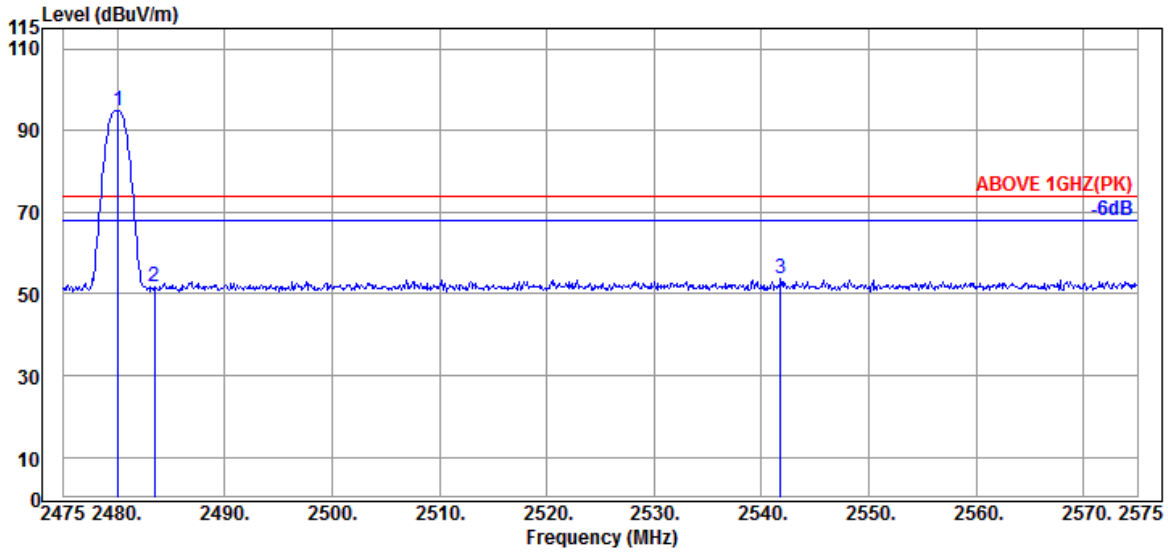


Antenna at Vertical Polarization

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
2342.000	32.05	5.64	34.50	39.40	42.59	54.00	11.41	Average
2390.000	32.00	5.72	34.51	36.56	39.77	54.00	14.23	Average
@ 2402.000	32.00	5.74	34.51	100.97	104.20	---	---	Average

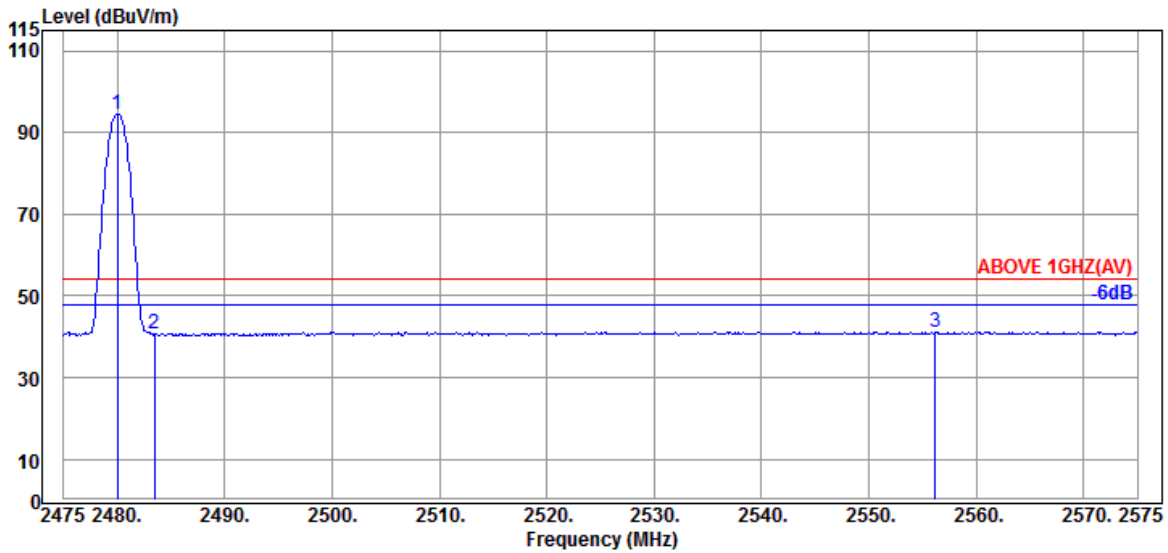
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.100	32.34	5.86	34.53	91.13	94.80	---	---	Peak
2483.500	32.43	5.87	34.53	47.82	51.59	74.00	22.41	Peak
2541.800	32.43	6.00	34.54	49.92	53.81	74.00	20.19	Peak

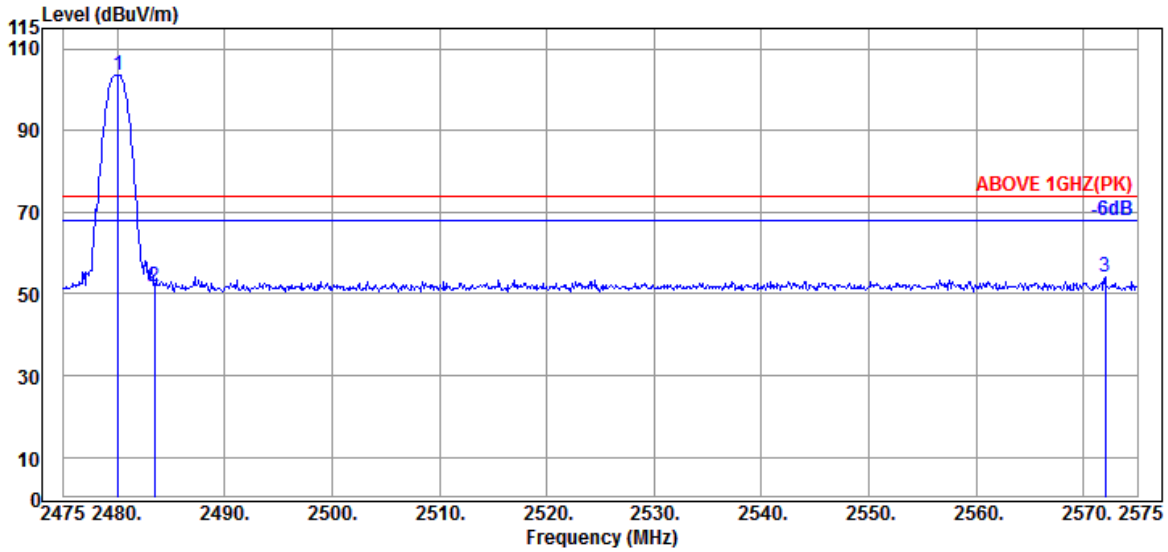


Antenna at Horizontal Polarization

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	32.34	5.86	34.53	90.96	94.63	---	---	Average
2483.500	32.43	5.87	34.53	36.87	40.64	54.00	13.36	Average
2556.200	32.39	6.03	34.54	37.40	41.28	54.00	12.72	Average

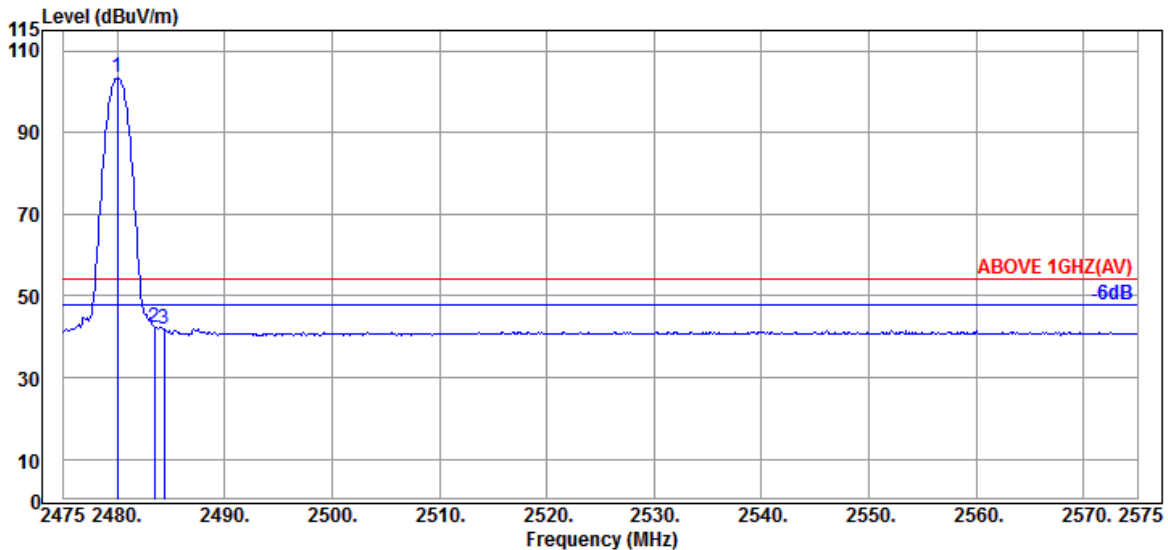
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.100	32.34	5.86	34.53	99.86	103.53	---	---	Peak
2483.500	32.43	5.87	34.53	48.18	51.95	74.00	22.05	Peak
2572.000	32.36	6.07	34.55	50.44	54.32	74.00	19.68	Peak

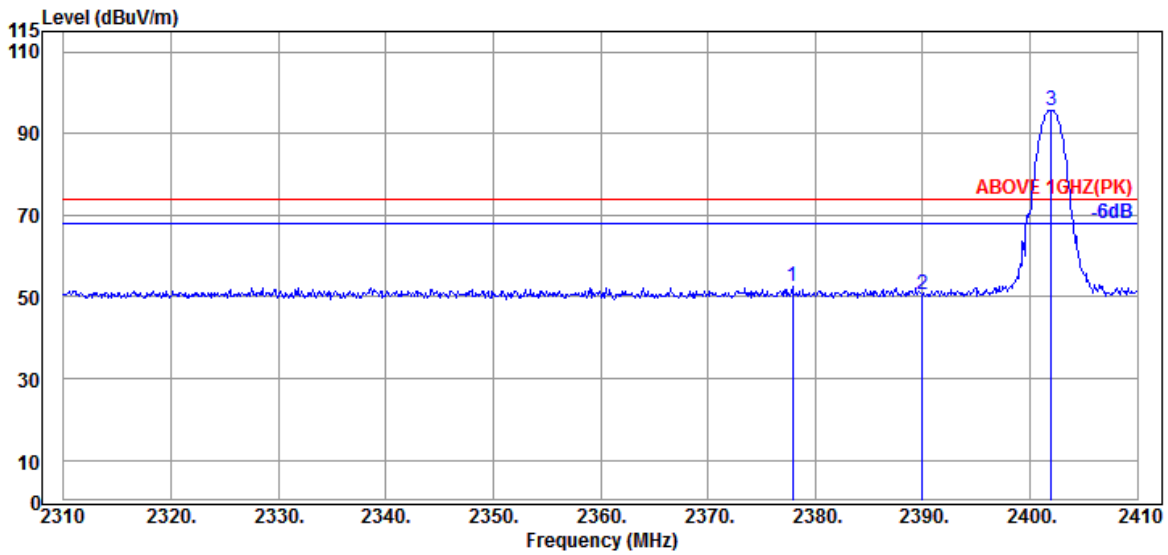


Antenna at Vertical Polarization

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	32.34	5.86	34.53	99.71	103.38	---	---	Average
2483.500	32.43	5.87	34.53	38.46	42.23	54.00	11.77	Average
2484.400	32.43	5.87	34.53	38.16	41.93	54.00	12.07	Average

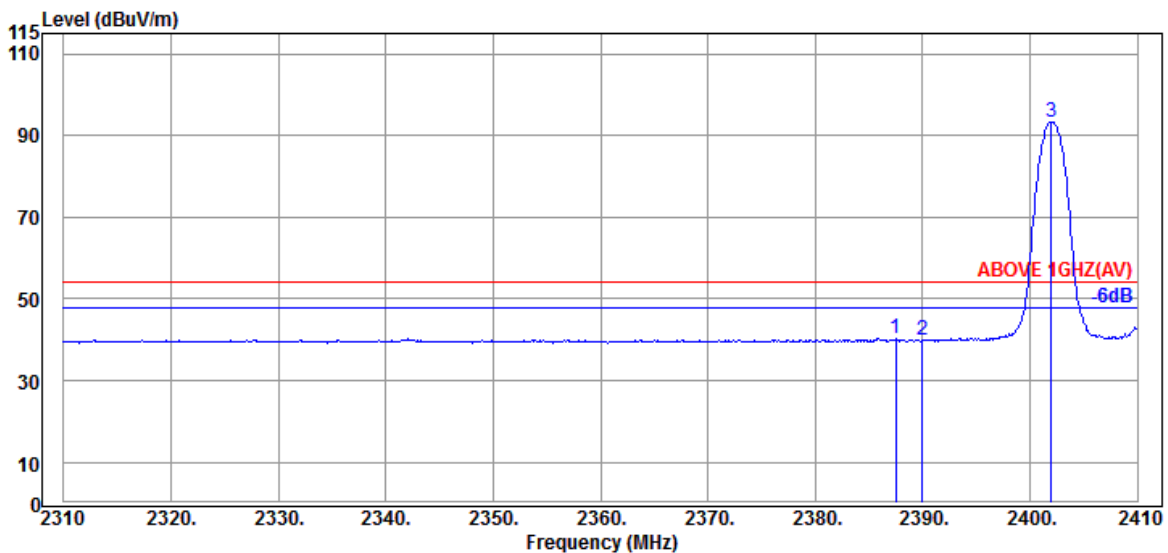
Remark: The “@” means fundamental frequency, it is ignored in this section.

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2377.900	32.00	5.71	34.50	49.16	52.37	74.00	21.63	Peak
2390.000	32.00	5.72	34.51	47.25	50.46	74.00	23.54	Peak
@ 2402.000	32.00	5.74	34.51	92.53	95.76	---	---	Peak

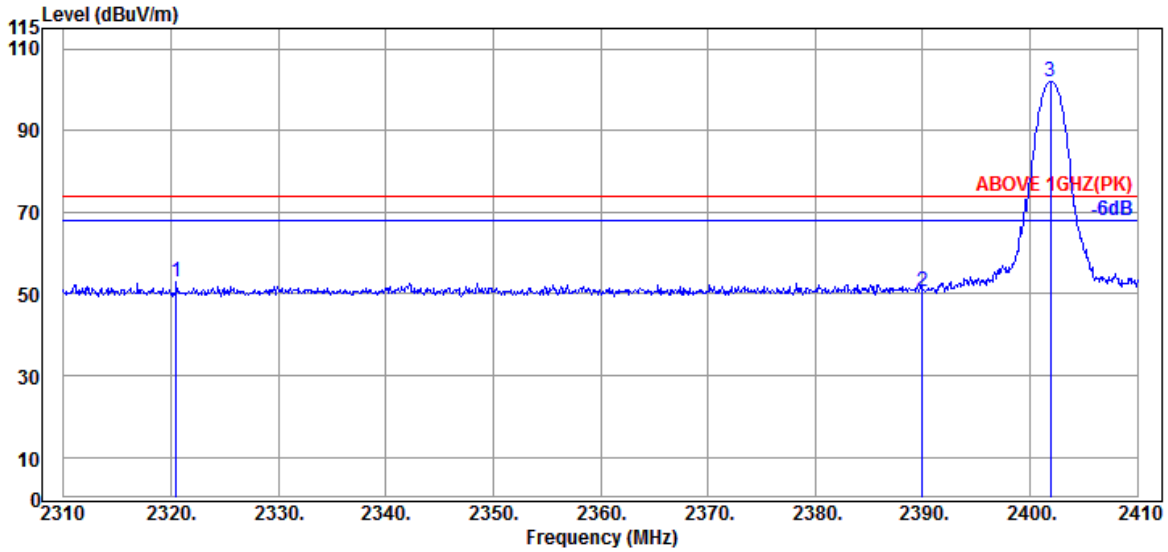


Antenna at Horizontal Polarization

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
2387.500	32.00	5.72	34.51	36.95	40.16	54.00	13.84	Average
2390.000	32.00	5.72	34.51	36.63	39.84	54.00	14.16	Average
@ 2402.000	32.00	5.74	34.51	90.10	93.33	---	---	Average

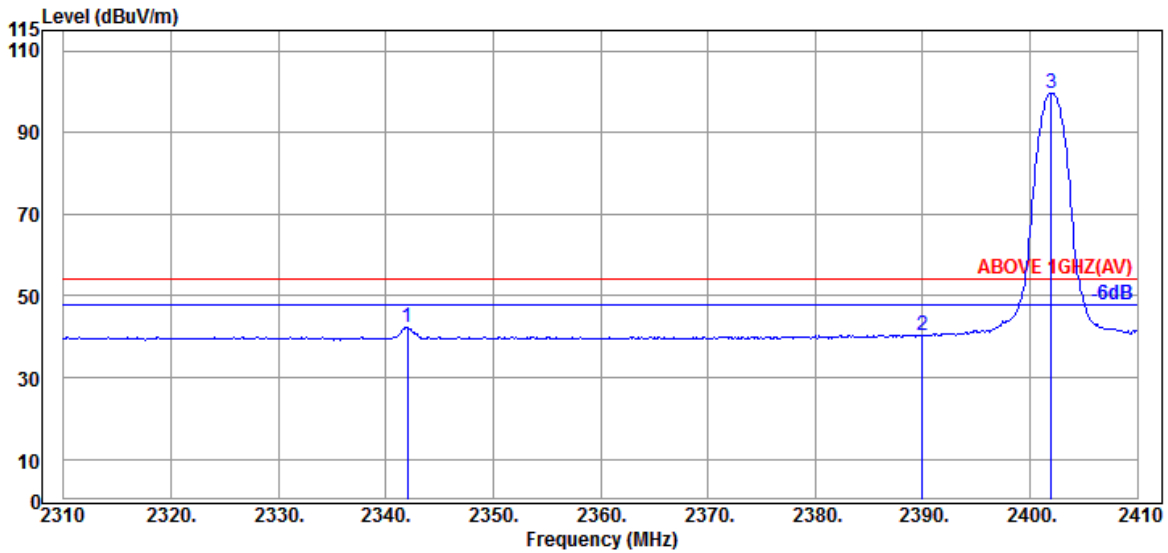
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2320.500	32.12	5.61	34.49	49.54	52.78	74.00	21.22	Peak
2390.000	32.00	5.72	34.51	47.27	50.48	74.00	23.52	Peak
@ 2401.900	32.00	5.74	34.51	98.75	101.98	---	---	Peak

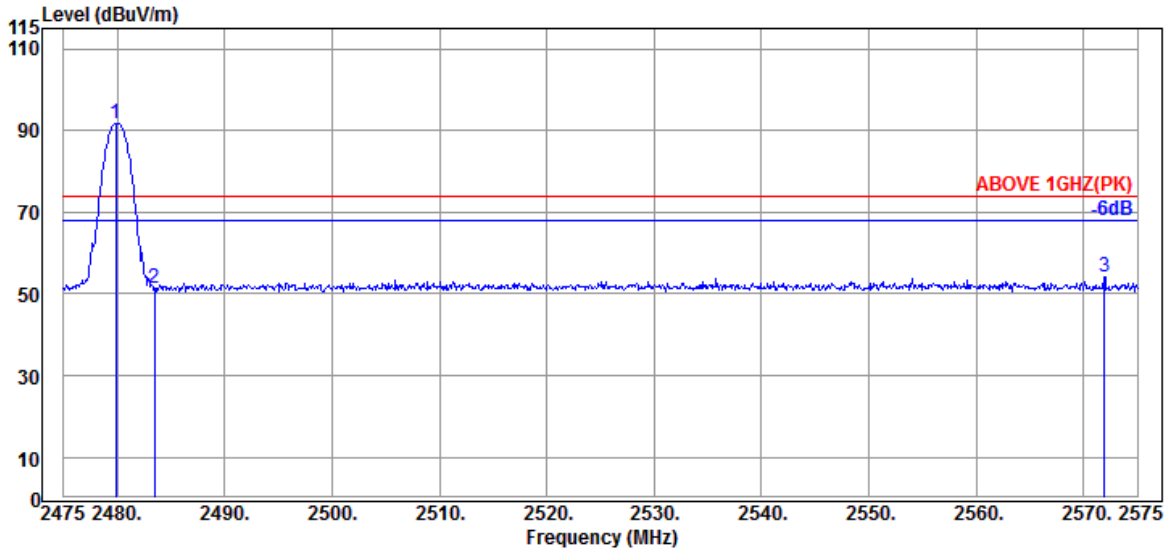


Antenna at Vertical Polarization

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
2342.000	32.05	5.64	34.50	39.22	42.41	54.00	11.59	Average
2390.000	32.00	5.72	34.51	37.03	40.24	54.00	13.76	Average
@ 2402.000	32.00	5.74	34.51	96.37	99.60	---	---	Average

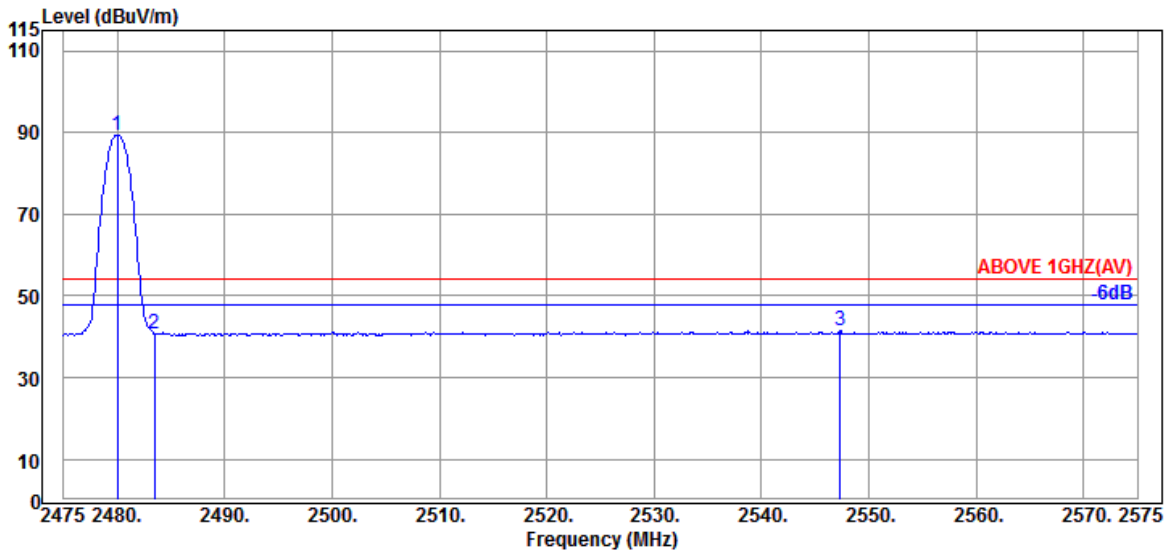
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2479.900	32.34	5.86	34.53	88.18	91.85	---	---	Peak
2483.500	32.43	5.87	34.53	47.52	51.29	74.00	22.71	Peak
2571.900	32.36	6.07	34.55	50.24	54.12	74.00	19.88	Peak



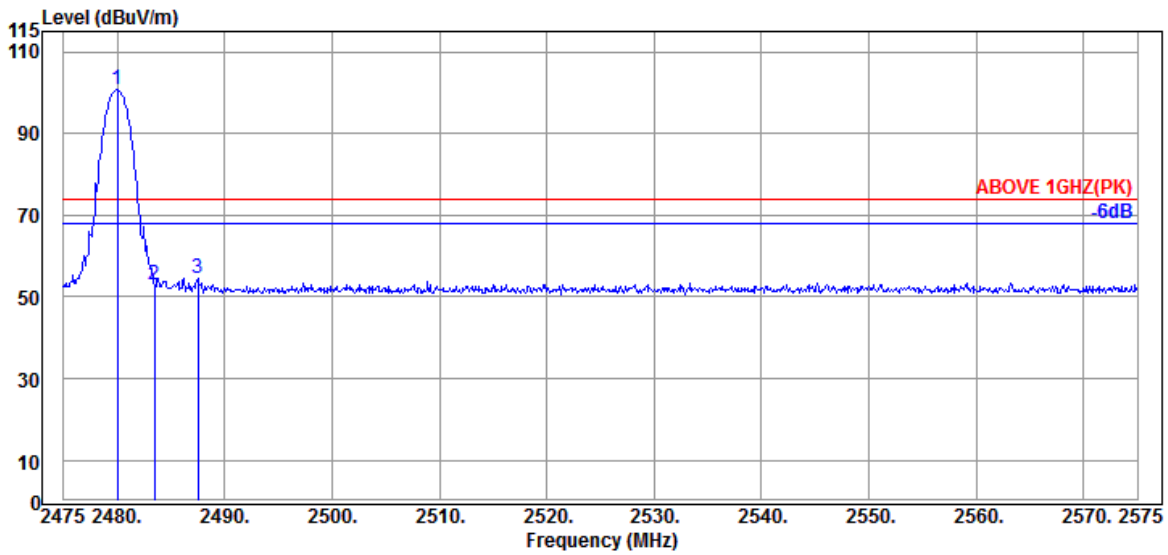
Antenna at Horizontal Polarization

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	32.34	5.86	34.53	85.75	89.42	---	---	Average
2483.500	32.43	5.87	34.53	37.04	40.81	54.00	13.19	Average
2547.300	32.43	6.00	34.54	37.58	41.47	54.00	12.53	Average

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

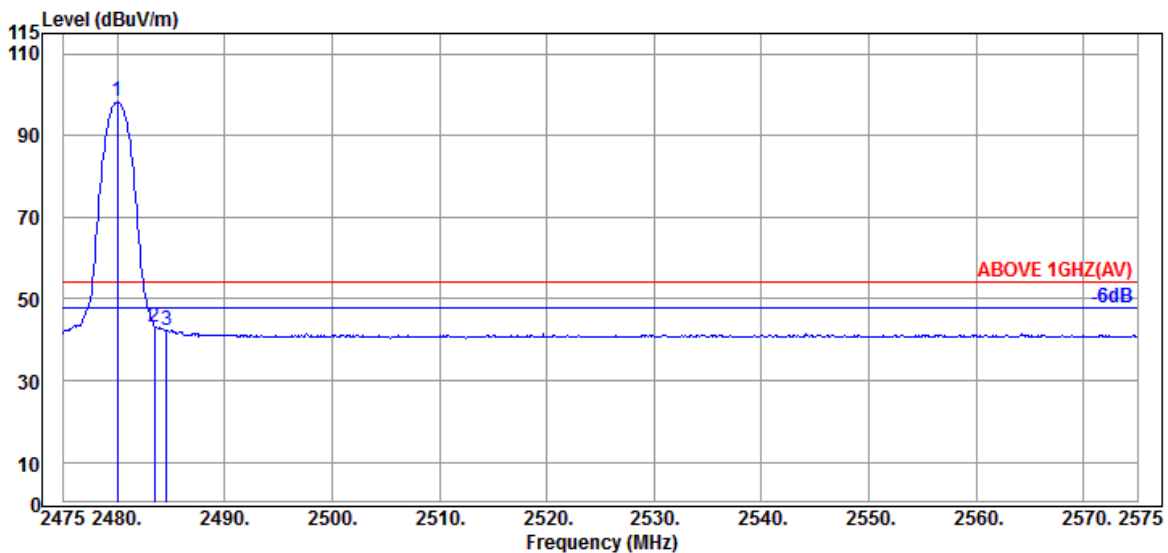


Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

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
@ 2480.000	32.34	5.86	34.53	97.05	100.72	---	---	Peak
2483.500	32.43	5.87	34.53	49.32	53.09	74.00	20.91	Peak
2487.500	32.43	5.87	34.53	50.83	54.60	74.00	19.40	Peak



Antenna at Vertical Polarization

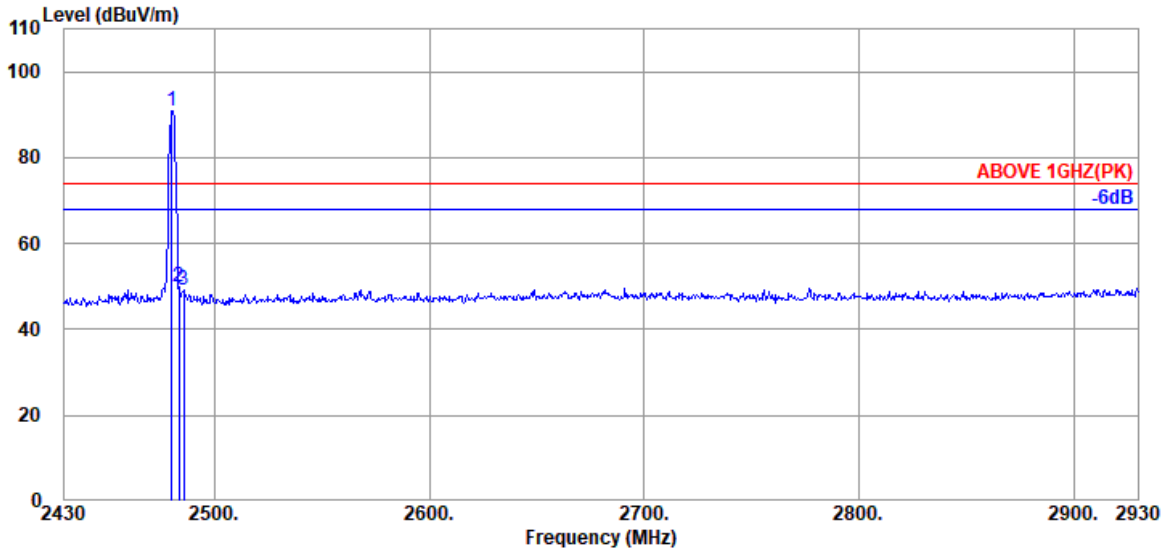
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	32.34	5.86	34.53	94.61	98.28	---	---	Average
2483.500	32.43	5.87	34.53	39.43	43.20	54.00	10.80	Average
2484.600	32.43	5.87	34.53	38.69	42.46	54.00	11.54	Average

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

**Spot Check**

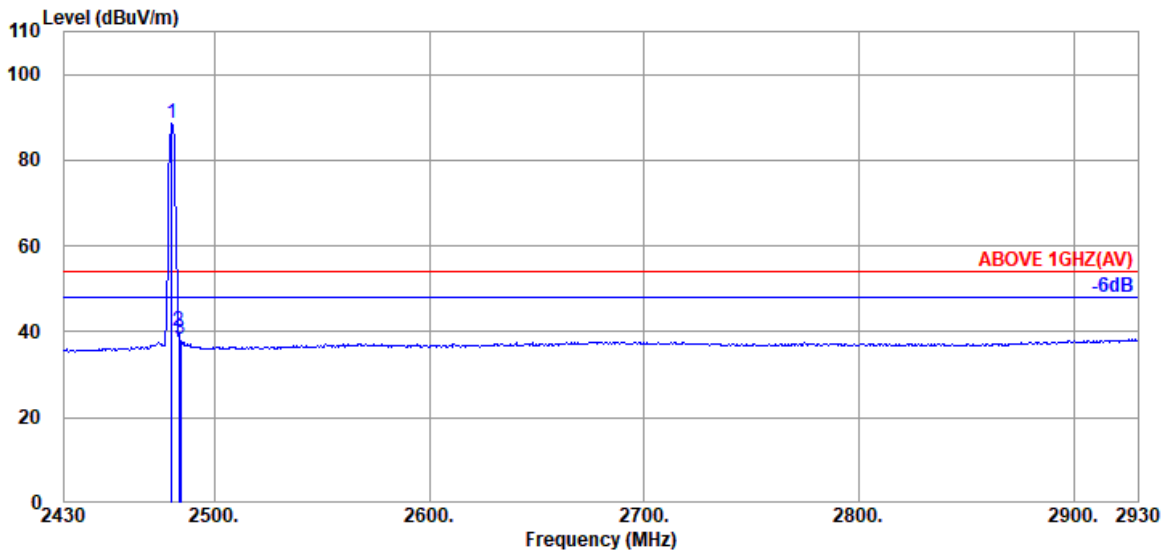
- **Test SKU #2 (with INPAQ Antenna and GM main board)**

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
@ 2480.000	28.46	5.86	39.92	96.47	90.87	---	---	Peak
2483.500	28.47	5.87	39.92	55.54	49.96	74.00	24.04	Peak
2485.500	28.47	5.87	39.92	54.76	49.18	74.00	24.82	Peak

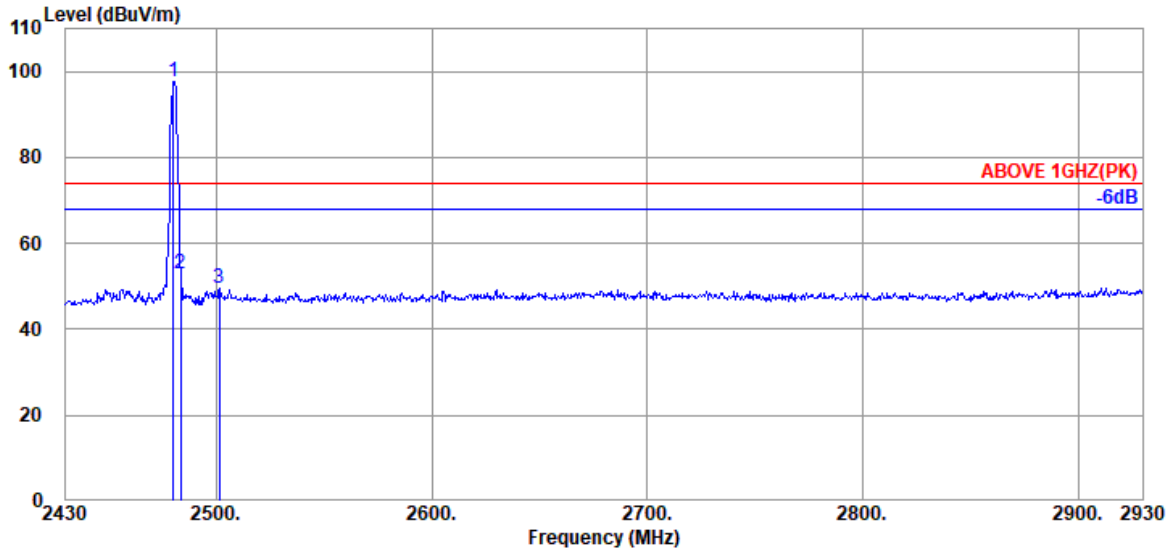


Antenna at Horizontal Polarization

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
@ 2480.000	28.46	5.86	39.92	94.25	88.65	---	---	Average
2483.500	28.47	5.87	39.92	45.79	40.21	54.00	13.79	Average
2484.000	28.47	5.87	39.92	44.04	38.46	54.00	15.54	Average

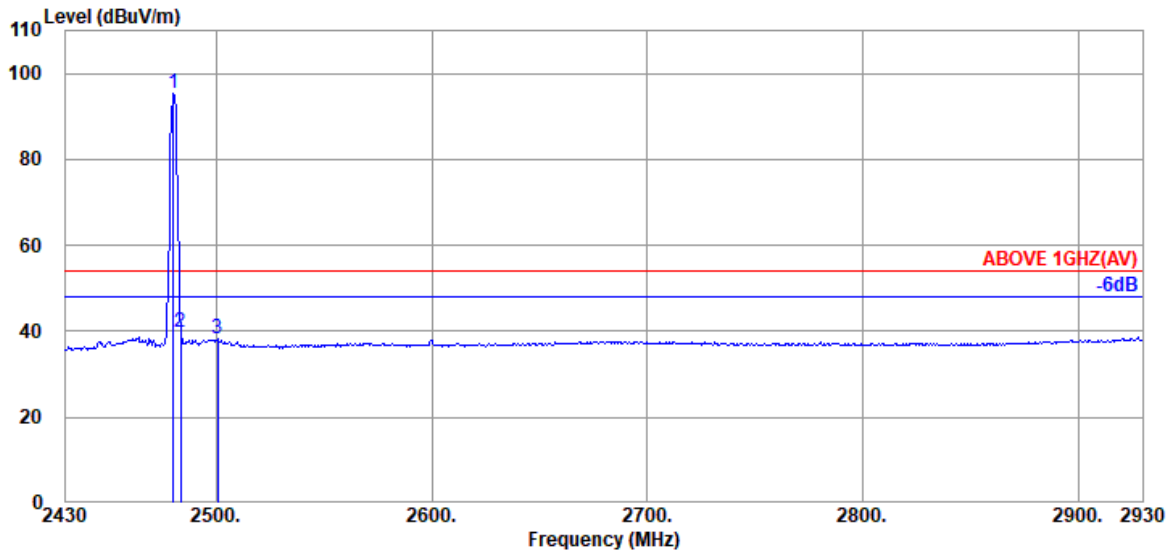
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.000	28.46	5.86	39.92	103.27	97.67	---	---	Peak
2483.500	28.47	5.87	39.92	58.59	53.01	74.00	20.99	Peak
2501.500	28.50	5.89	39.92	55.08	49.55	74.00	24.45	Peak



Antenna at Vertical Polarization

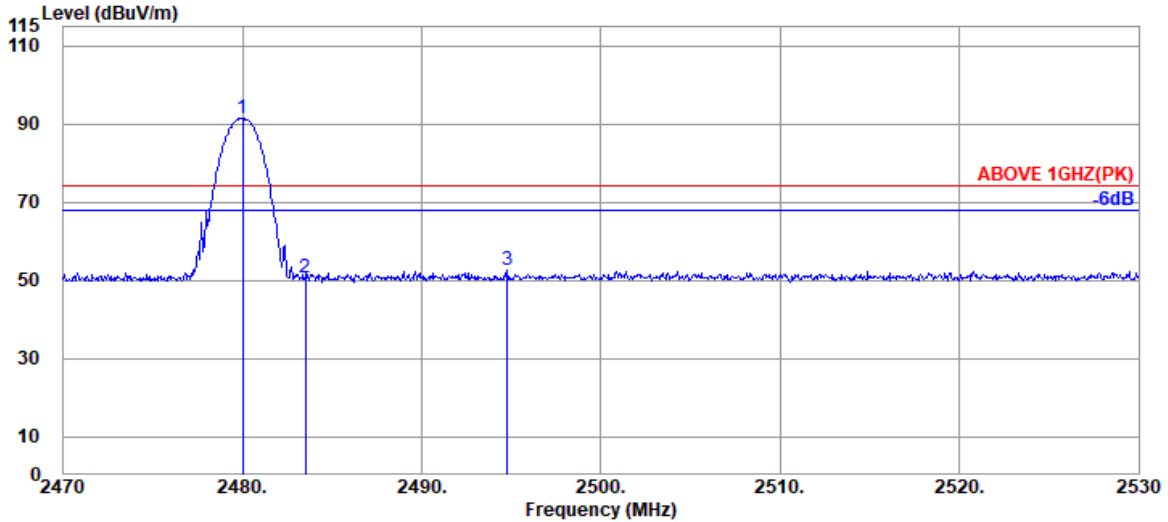
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	100.94	95.34	---	---	Average
2483.500	28.47	5.87	39.92	45.47	39.89	54.00	14.11	Average
2500.500	28.50	5.89	39.92	43.87	38.34	54.00	15.66	Average

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

**Spot Check**

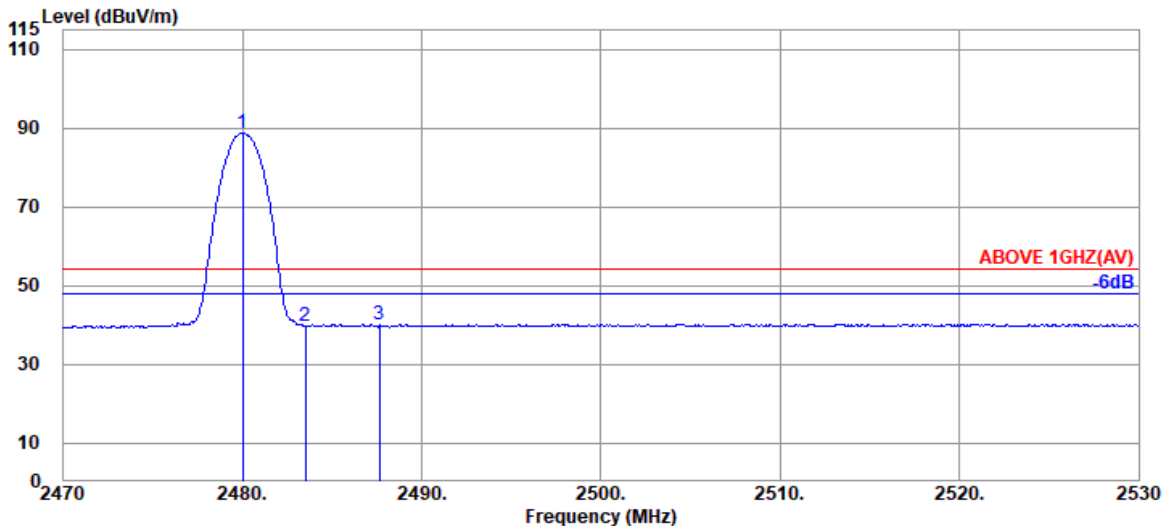
- **Test SKU #2 (with LUXSHARE-ICT Antenna and GM main board)**

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
@ 2480.020	32.34	5.86	34.53	87.92	91.59	---	---	Peak
2483.500	32.43	5.87	34.53	46.73	50.50	74.00	23.50	Peak
2494.780	32.51	5.88	34.53	48.68	52.54	74.00	21.46	Peak

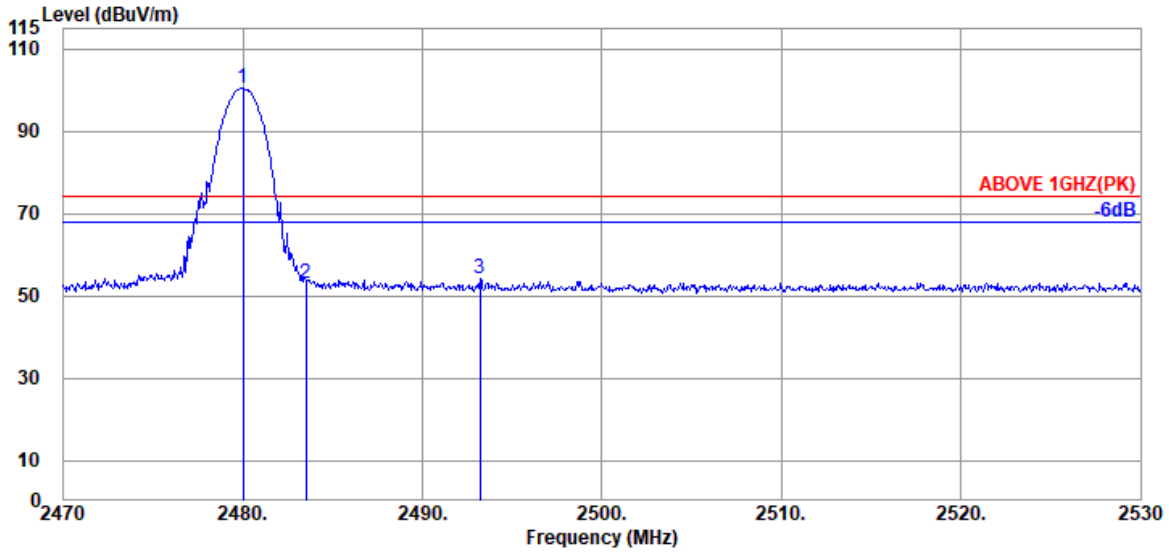


Antenna at Horizontal Polarization

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
@ 2480.020	32.34	5.86	34.53	85.06	88.73	---	---	Average
2483.500	32.43	5.87	34.53	35.95	39.72	54.00	14.28	Average
2487.640	32.43	5.87	34.53	36.45	40.22	54.00	13.78	Average

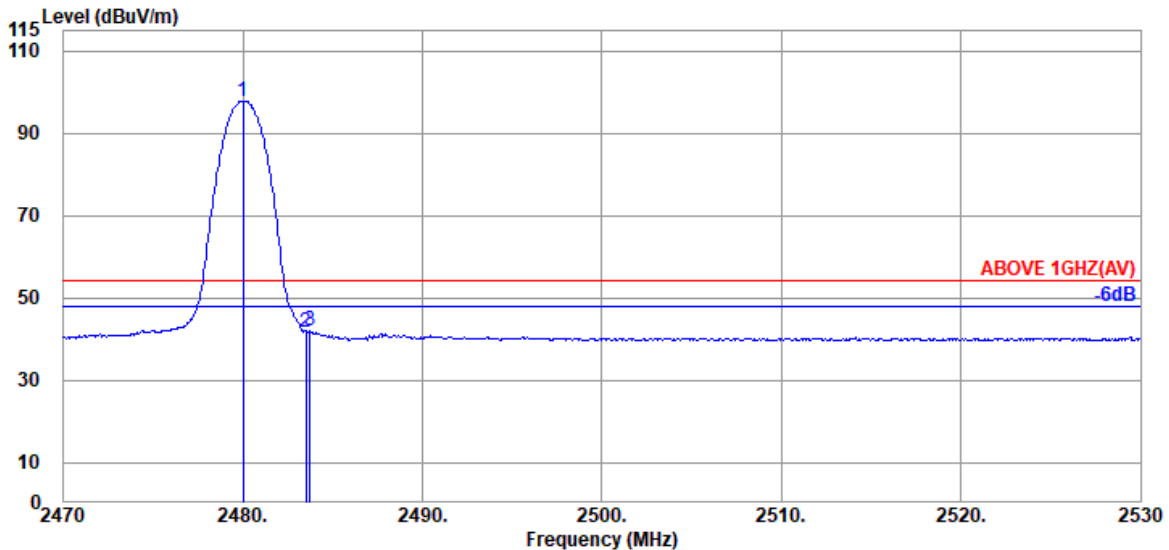
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.020	32.34	5.86	34.53	96.82	100.49	---	---	Peak
2483.500	32.43	5.87	34.53	49.10	52.87	74.00	21.13	Peak
2493.220	32.51	5.88	34.53	50.31	54.17	74.00	19.83	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
@ 2480.020	32.34	5.86	34.53	94.23	97.90	---	---	Average
2483.500	32.43	5.87	34.53	38.02	41.79	54.00	12.21	Average
2483.740	32.43	5.87	34.53	38.06	41.83	54.00	12.17	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.

● **Test SKU #1 (with INPAQ Antenna and PM main board)**

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.00	8.53	39.39	41.65	43.79	54.00	10.21	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	33.00	8.53	39.39	41.95	44.09	54.00	9.91	Peak

Mode	GFSK			Frequency	TX 2441MHz			
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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
4882.000	33.25	8.64	39.35	44.50	47.04	54.00	6.96	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
4882.000	33.25	8.64	39.35	42.04	44.58	54.00	9.42	Peak

Mode	GFSK			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	8.74	39.31	43.13	45.96	54.00	8.04	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	8.74	39.31	42.97	45.80	54.00	8.20	Peak

● **Test SKU #2 (with LUXSHARE-ICT Antenna and PM main board)**

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 (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4804.000	34.10	8.53	34.43	32.40	40.60	54.00	13.40	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4804.000	34.10	8.53	34.43	33.22	41.42	54.00	12.58	Peak

Mode	GFSK			Frequency	TX 2441MHz			
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4882.000	34.05	8.64	34.42	31.31	39.58	54.00	14.42	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4882.000	34.05	8.64	34.42	31.34	39.61	54.00	14.39	Peak

Mode	GFSK			Frequency	TX 2480MHz			
------	------	--	--	-----------	------------	--	--	--

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	32.21	40.76	54.00	13.24	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	32.13	40.68	54.00	13.32	Peak



**Spot Check**

● **Test SKU #2 (with INPAQ Antenna and GM main board)**

Mode	GFSK	Frequency	TX 2441MHz					
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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
4882.000	33.25	8.64	39.35	41.63	44.17	54.00	9.83	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
4882.000	33.25	8.64	39.35	42.01	44.55	54.00	9.45	Peak

● **Test SKU #2 (with LUXSHARE-ICT Antenna and GM main board)**

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 (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.00	8.53	39.39	41.29	43.43	54.00	10.57	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	33.00	8.53	39.39	42.89	45.03	54.00	8.97	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 20dB BANDWIDTH

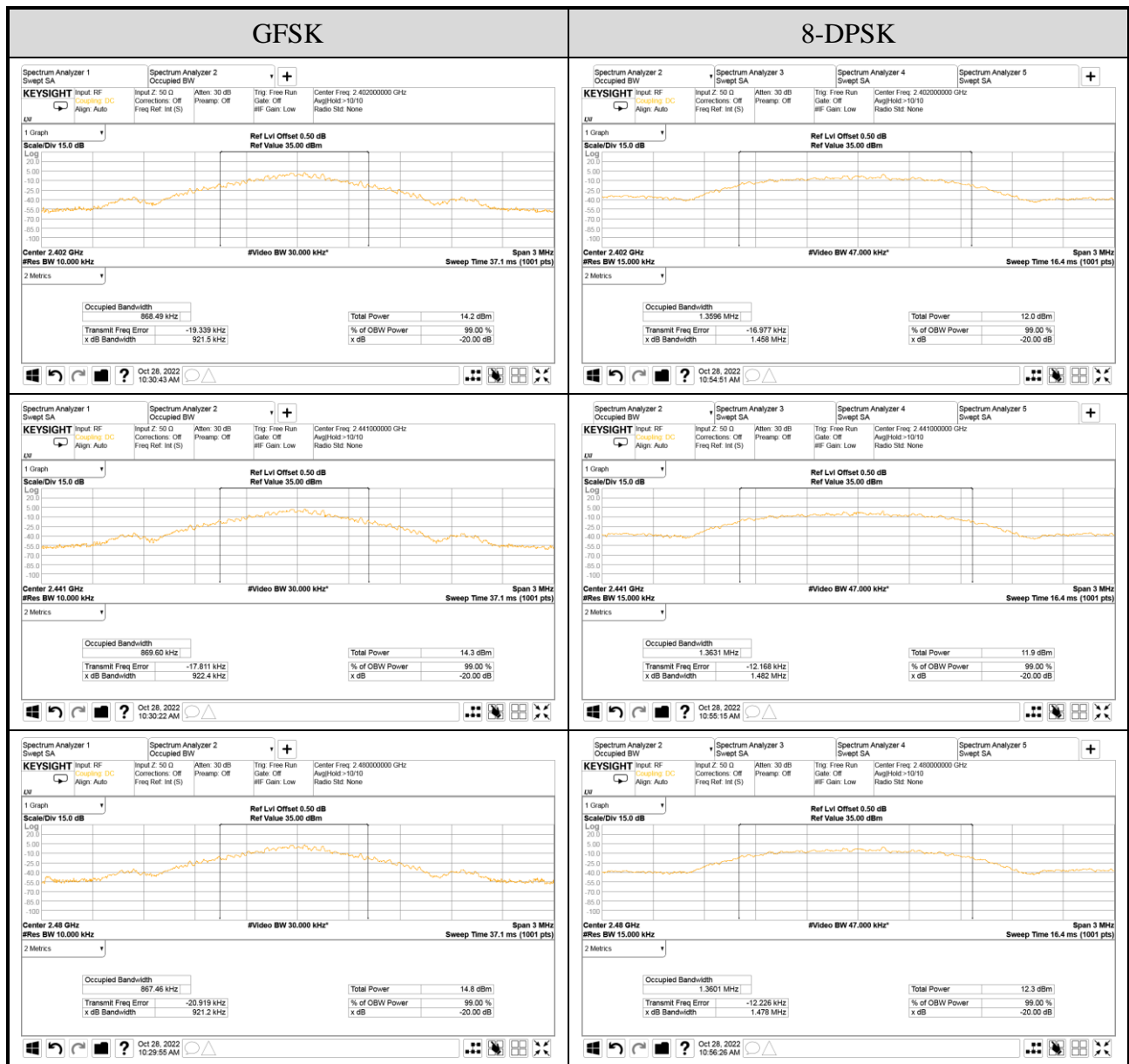
Test Date	2022/10/28	Temp./Hum.	23°C/61%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

### A.3.1 20dB Bandwidth Result

Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9215	0.86849	0.614
	2441	0.9224	0.86960	0.615
	2480	0.9212	0.86746	0.614
8-DPSK	2402	1.458	1.3596	0.972
	2441	1.482	1.3631	0.988
	2480	1.478	1.3601	0.985

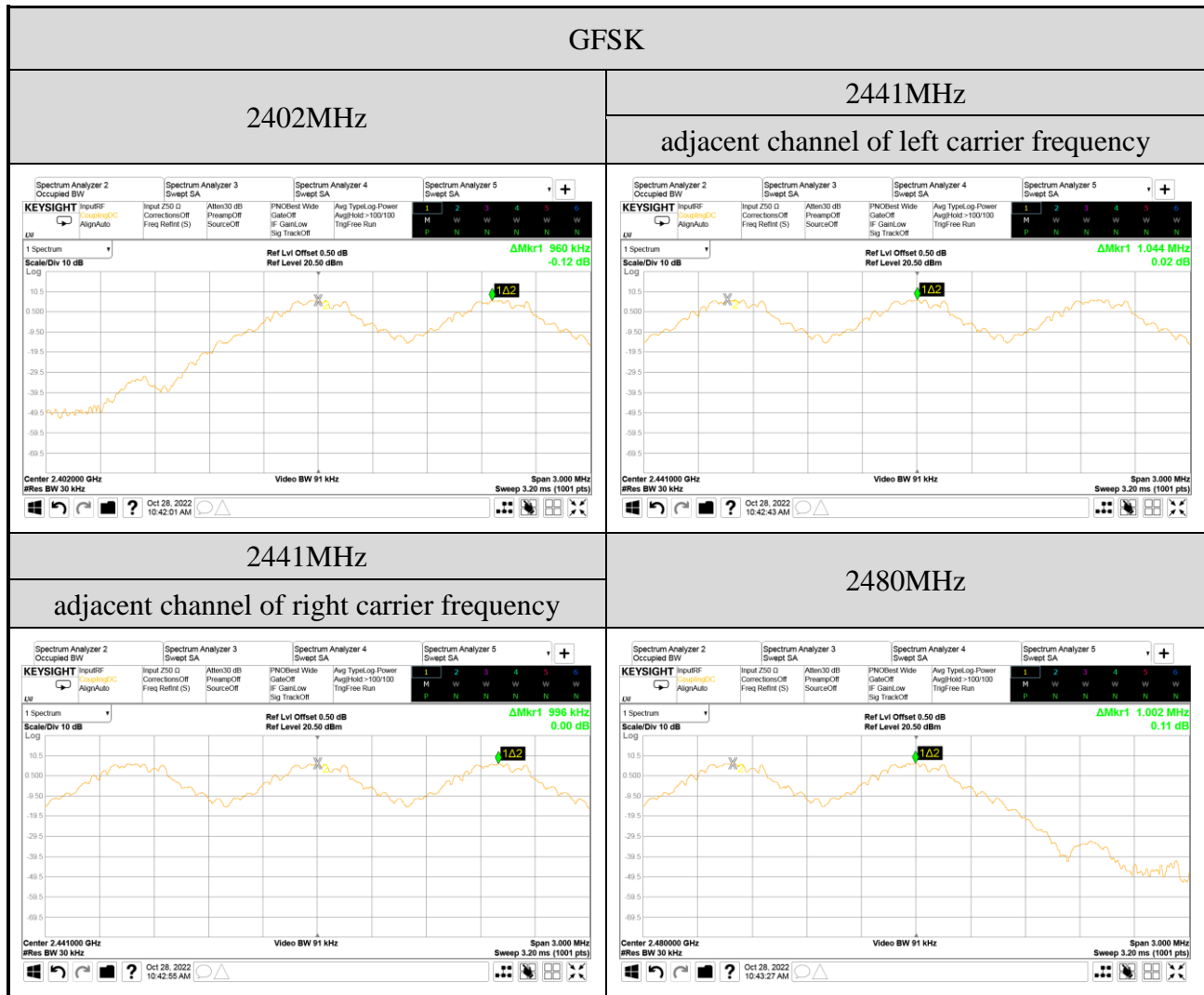
Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

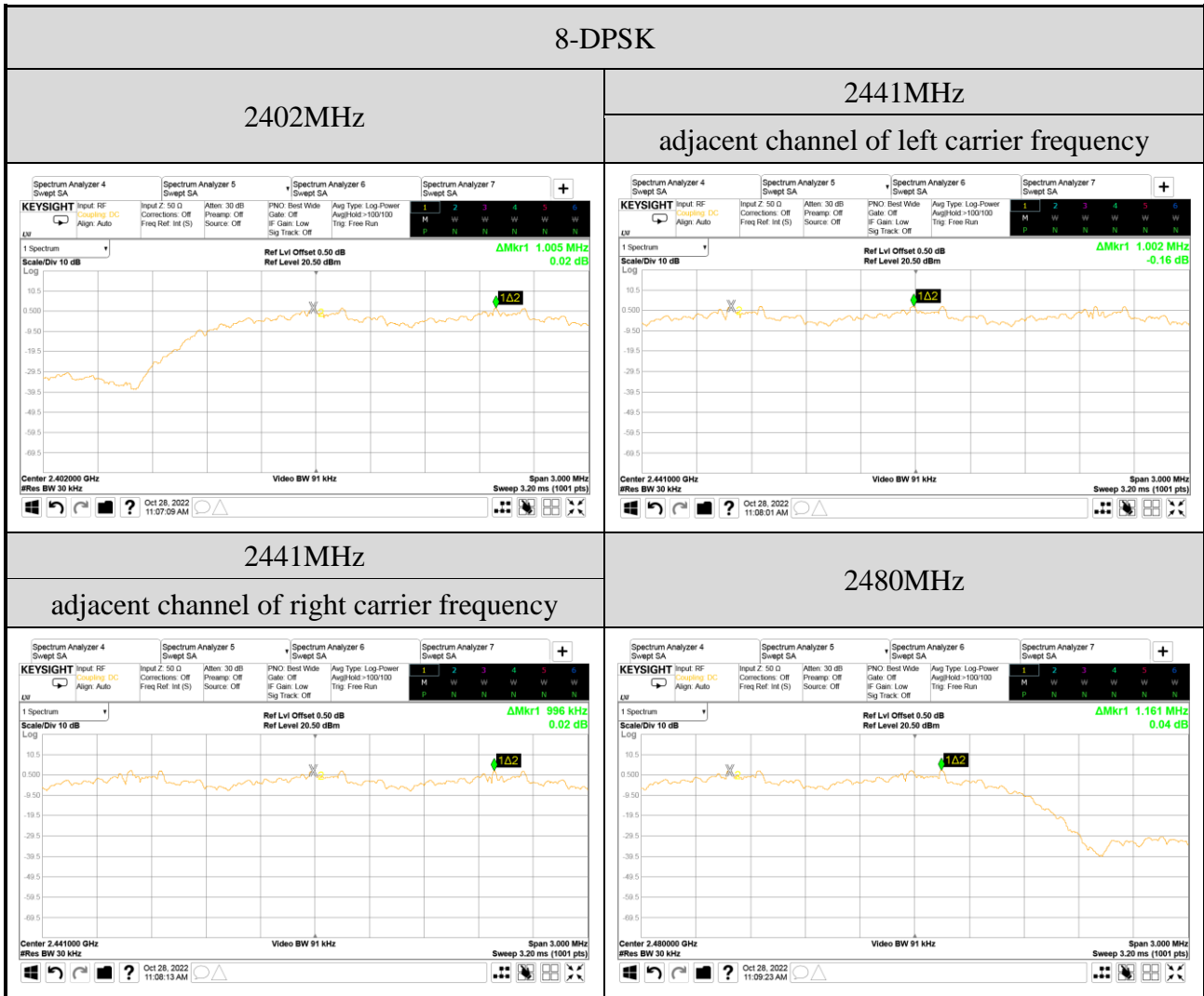
### A.3.2 Measurement Plots



## A.4 CARRIER FREQUENCY SEPARATION

Test Date	2022/10/28	Temp./Hum.	23°C/61%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		





## A.5 TIME OF OCCUPANCY

Test Date	2022/10/28	Temp./Hum.	23°C/61%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

### A.5.1 Time of Occupancy

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2402	DH1	10	0.3800	120.080	<400
		DH3	6	1.6400	310.944	<400
		DH5	3	2.8800	273.024	<400

Observation Period:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

#### DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is  
 10 transmission \* 31.6 seconds \* 0.380 ms = 120.080 ms (<400ms)

#### DH3 Mode

For each second of 6 transmission appearance, the longest time of occupancy is  
 6 transmission \* 31.6 seconds \* 1.640 ms = 310.944 ms (<400ms)

#### DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is  
 3 transmission \* 31.6 seconds \* 2.880 ms = 273.024 ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2441	DH1	10	0.3800	120.080	<400
		DH3	5	1.6300	257.540	<400
		DH5	3	2.8800	273.024	<400

Observation Period:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

#### DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is  
 10 transmission \* 31.6 seconds \* 0.380 ms = 120.080 ms (<400ms)

#### DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is  
 5 transmission \* 31.6 seconds \* 1.630 ms = 257.540 ms (<400ms)

#### DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is  
 3 transmission \* 31.6 seconds \* 2.880 ms = 273.024 ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2480	DH1	10	0.3800	120.080	<400
		DH3	5	1.6500	260.700	<400
		DH5	4	2.8800	364.032	<400

Observation Period:

**79** channels \* **0.4** seconds = **31.6** seconds

**DH1 Mode**

For each second of **10** transmission appearance, the longest time of occupancy is  
**10** transmission \* **31.6** seconds \* **0.380** ms = **120.080** ms (<400ms)

**DH3 Mode**

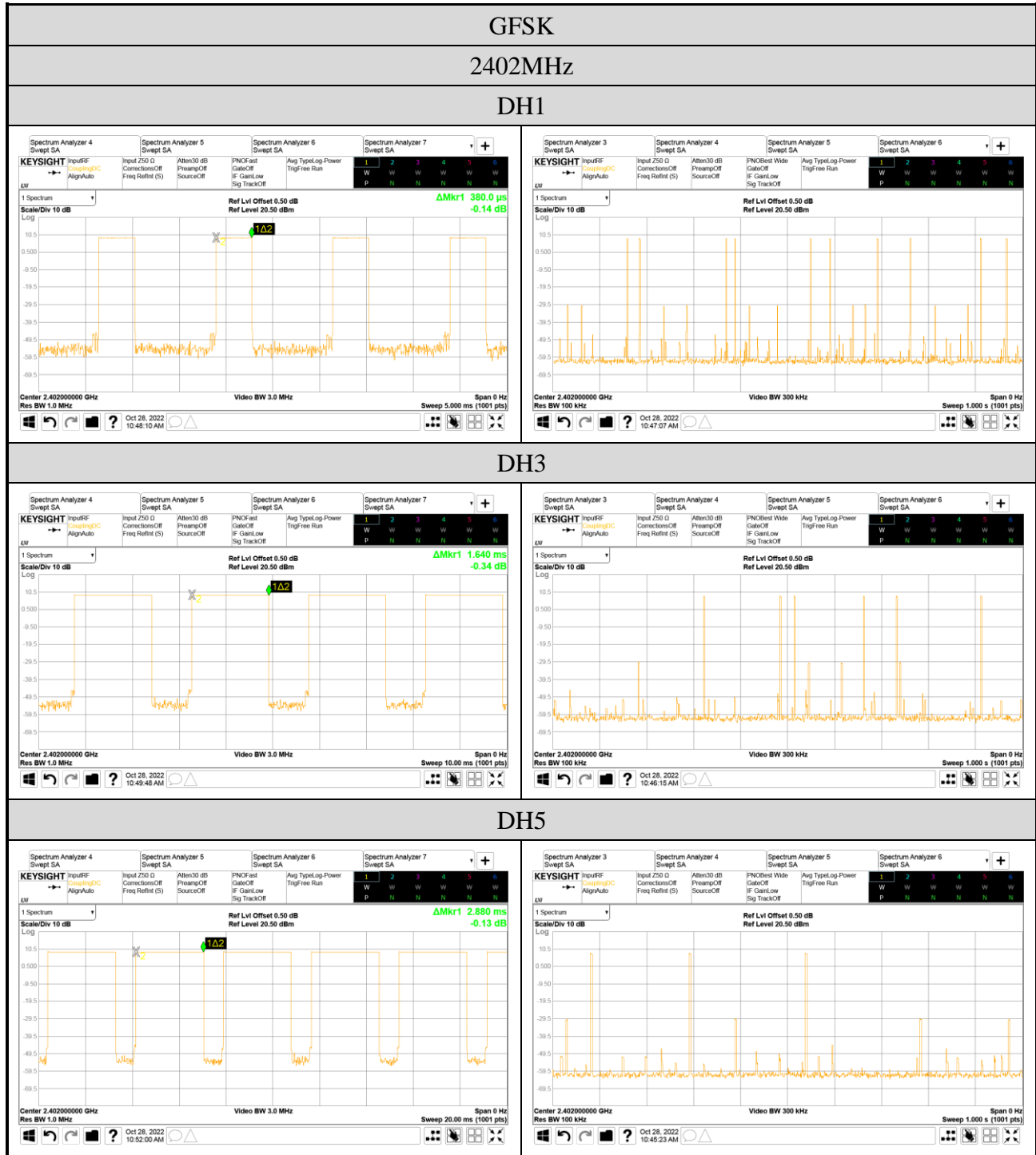
For each second of **5** transmission appearance, the longest time of occupancy is  
**5** transmission \* **31.6** seconds \* **1.650** ms = **260.700** ms (<400ms)

**DH5 Mode**

For each second of **4** transmission appearance, the longest time of occupancy is  
**4** transmission \* **31.6** seconds \* **2.880** ms = **364.032** ms (<400ms)



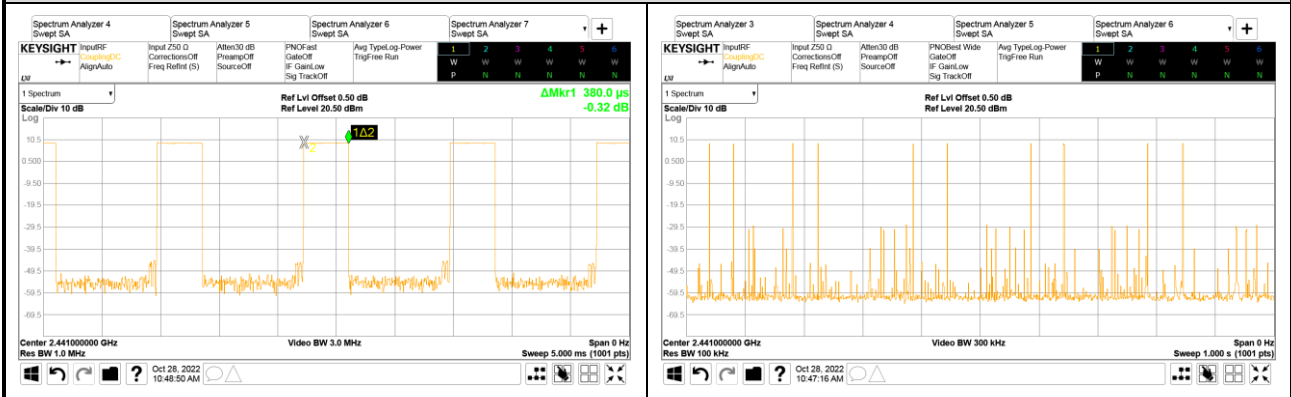
● Measurement Plots



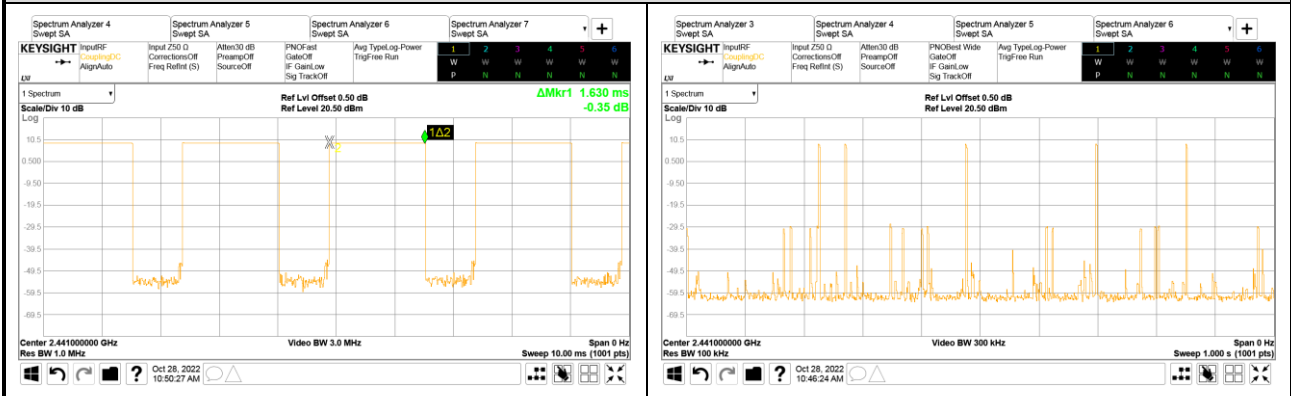
**GFSK**

**2441MHz**

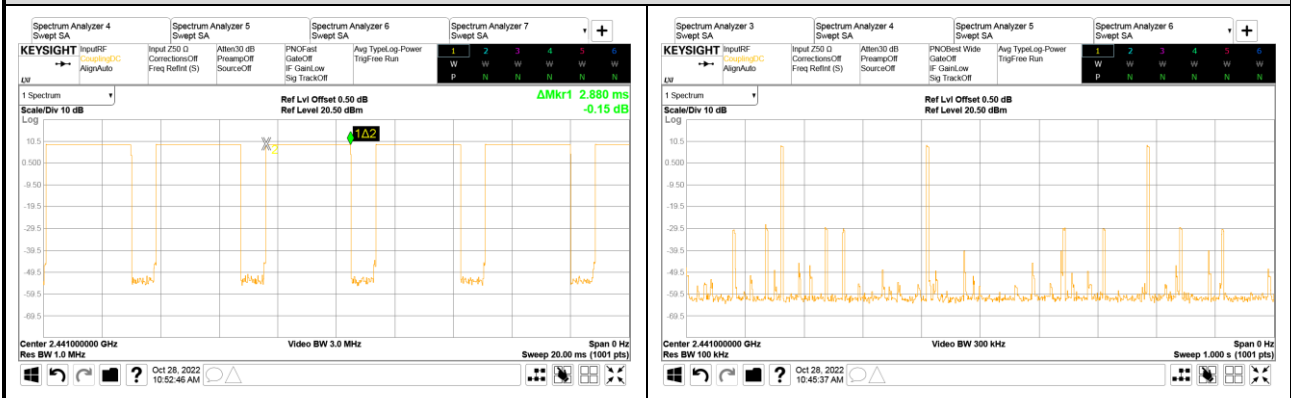
**DH1**



**DH3**



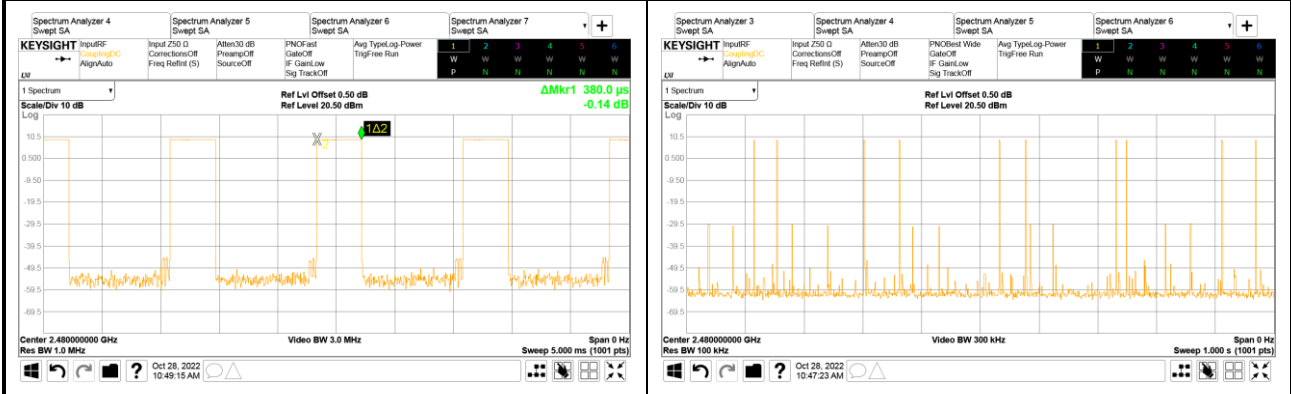
**DH5**



GFSK

2480MHz

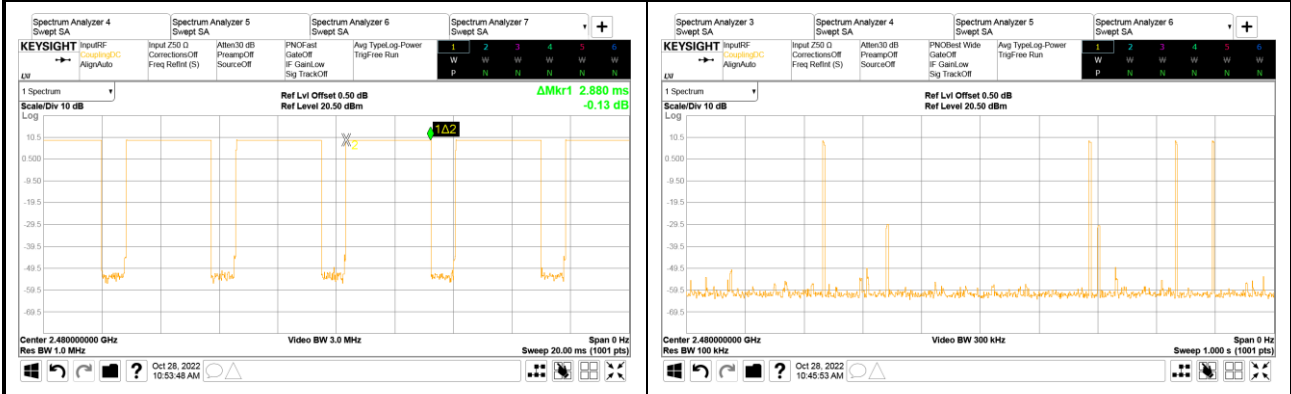
DH1



DH3



DH5



Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2402	3DH1	10	0.3900	123.240	<400
		3DH3	5	1.6400	259.120	<400
		3DH5	3	2.9000	274.920	<400

Observation Period:

$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$

**3DH1 Mode**

For each second of **10** transmission appearance,the longest time of occupancy is  
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$

**3DH3 Mode**

For each second of **5** transmission appearance,the longest time of occupancy is  
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.640 \text{ ms} = 259.120 \text{ ms} (<400\text{ms})$

**3DH5 Mode**

For each second of **3** transmission appearance,the longest time of occupancy is  
 $3 \text{ transmission} * 31.6 \text{ seconds} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2441	3DH1	10	0.3900	123.240	<400
		3DH3	4	1.6400	207.296	<400
		3DH5	3	2.9000	274.920	<400

Observation Period:

$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$

**3DH1 Mode**

For each second of **10** transmission appearance,the longest time of occupancy is  
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$

**3DH3 Mode**

For each second of **4** transmission appearance,the longest time of occupancy is  
 $4 \text{ transmission} * 31.6 \text{ seconds} * 1.640 \text{ ms} = 207.296 \text{ ms} (<400\text{ms})$

**3DH5 Mode**

For each second of **3** transmission appearance,the longest time of occupancy is  
 $3 \text{ transmission} * 31.6 \text{ seconds} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2480	3DH1	10	0.3900	123.240	<400
		3DH3	4	1.6400	207.296	<400
		3DH5	3	2.8800	273.024	<400

Observation Period:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

**3DH1 Mode**

For each second of **10** transmission appearance, the longest time of occupancy is  
**10** transmission \* **31.6** seconds \* **0.390** ms = **123.240** ms (<400ms)

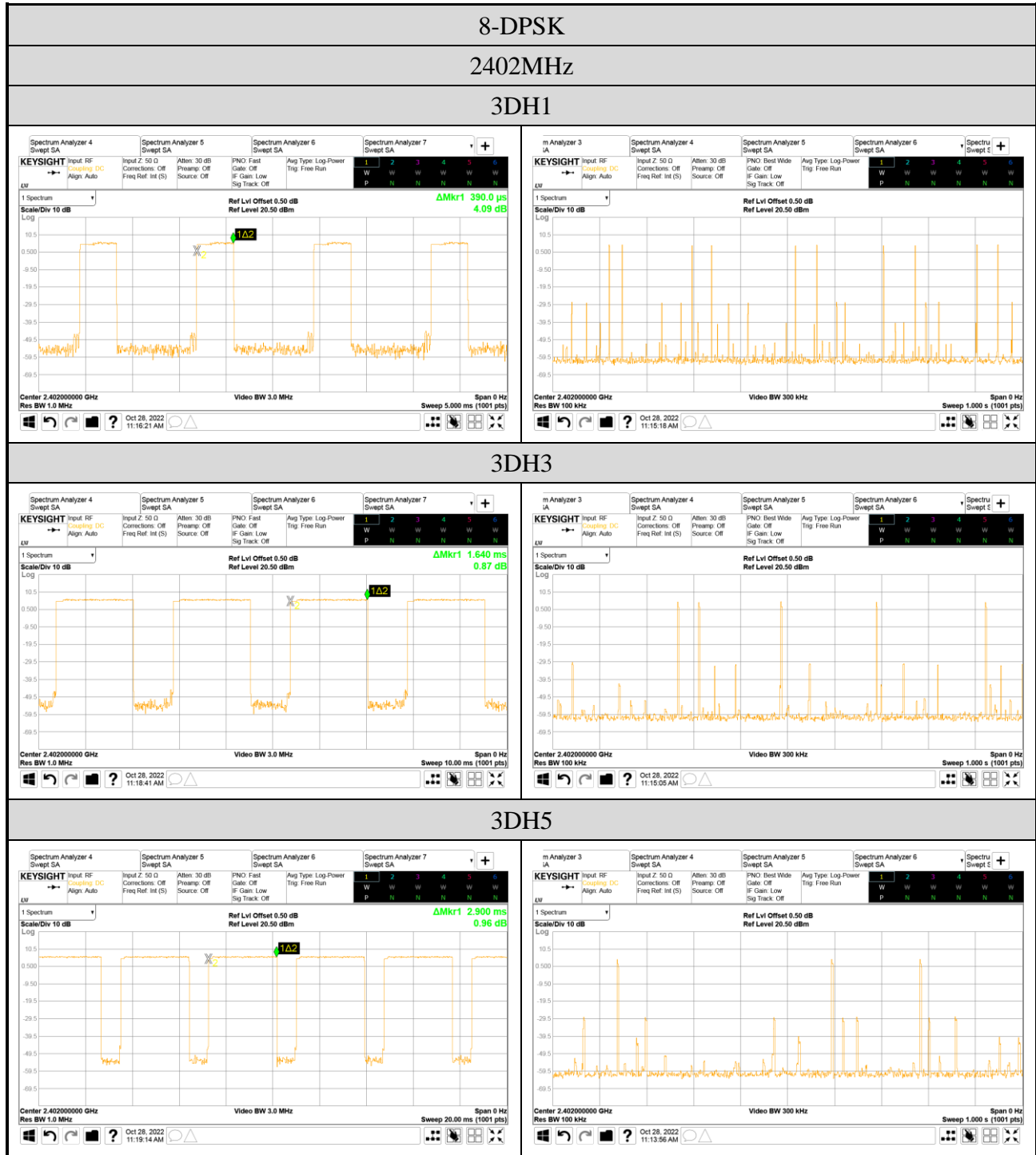
**3DH3 Mode**

For each second of **4** transmission appearance, the longest time of occupancy is  
**4** transmission \* **31.6** seconds \* **1.640** ms = **207.296** ms (<400ms)

**3DH5 Mode**

For each second of **3** transmission appearance, the longest time of occupancy is  
**3** transmission \* **31.6** seconds \* **2.880** ms = **273.024** ms (<400ms)

● Measurement Plots



**3DH3**



**3DH5**



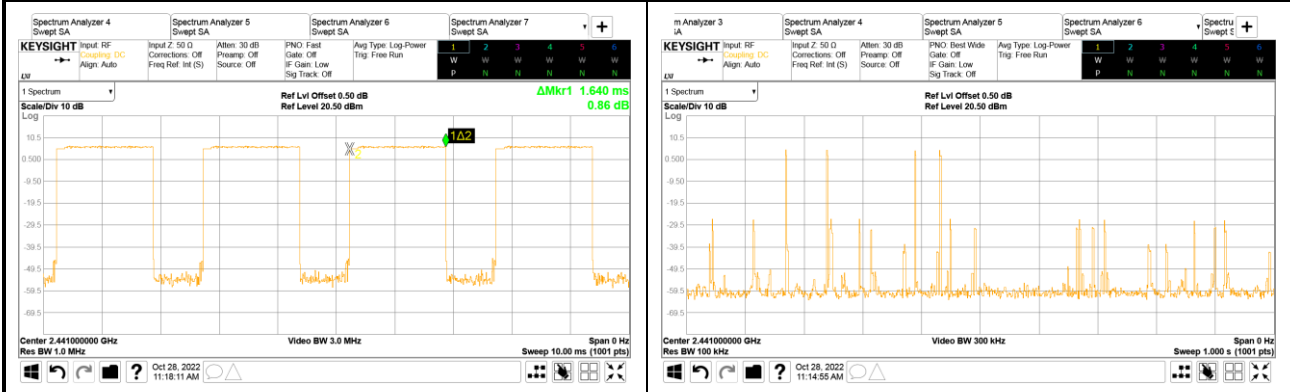
8-DPSK

2441MHz

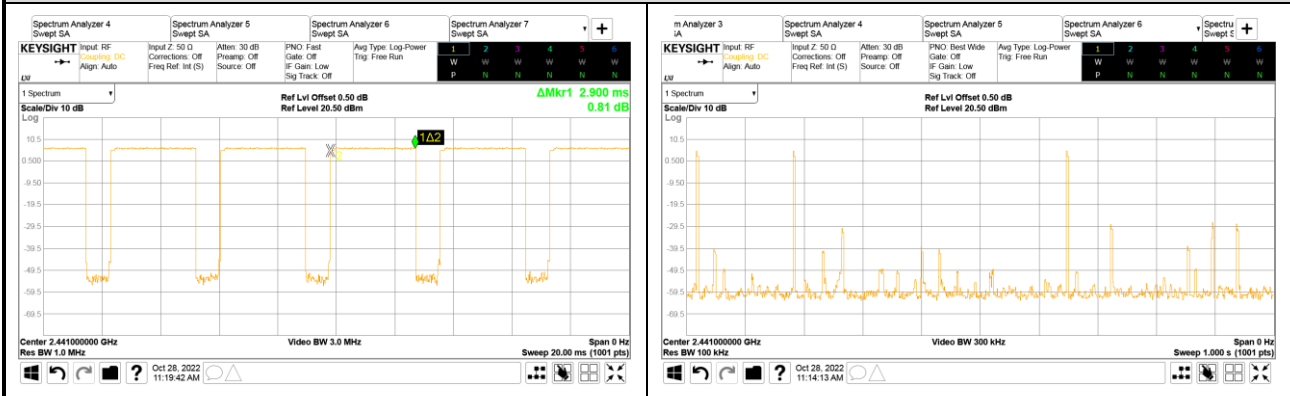
3DH1



3DH3



3DH5

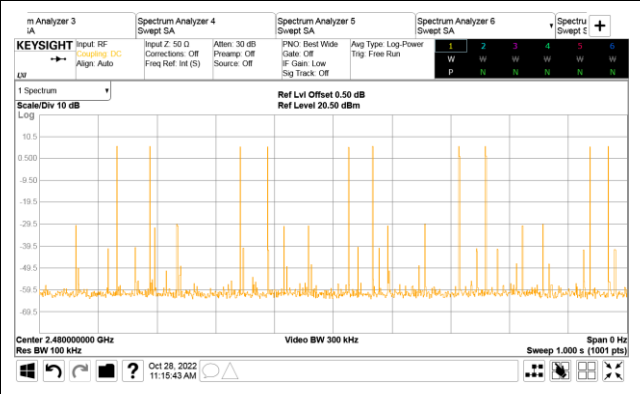
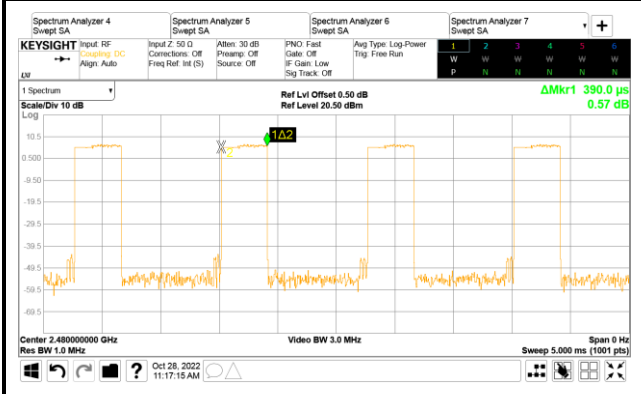




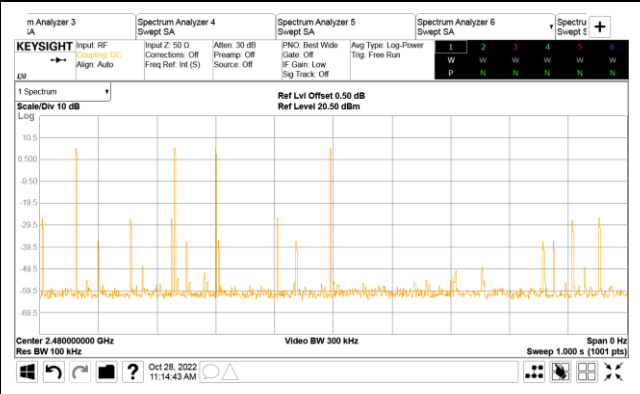
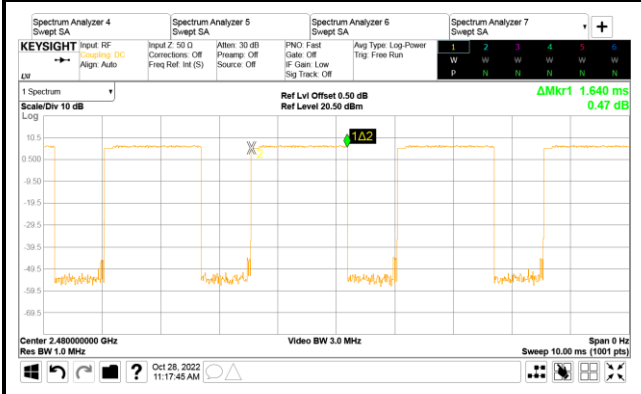
8-DPSK

2480MHz

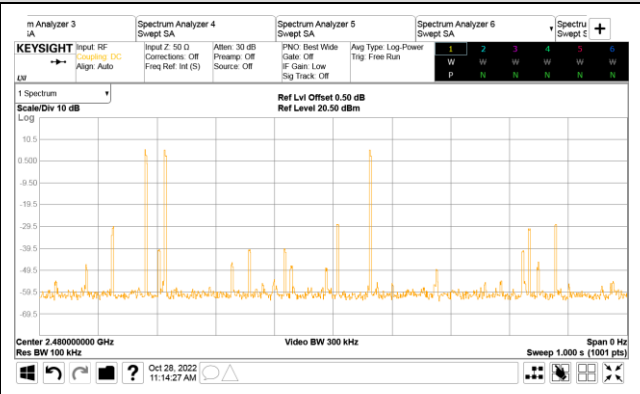
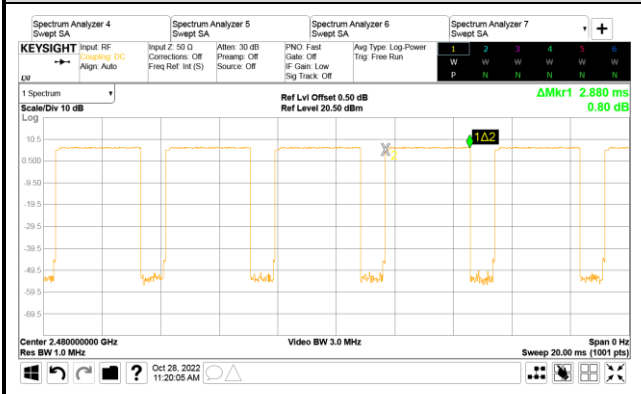
3DH1



3DH3



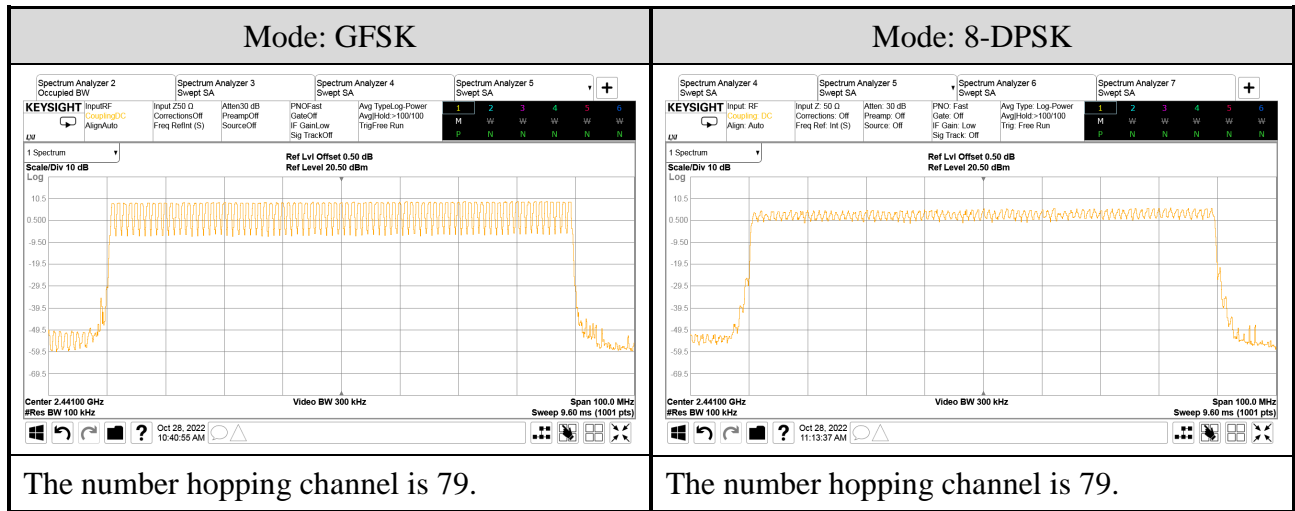
3DH5





## A.6 NUMBER OF HOPPING CHANNELS

Test Date	2022/10/28	Temp./Hum.	23°C /61%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



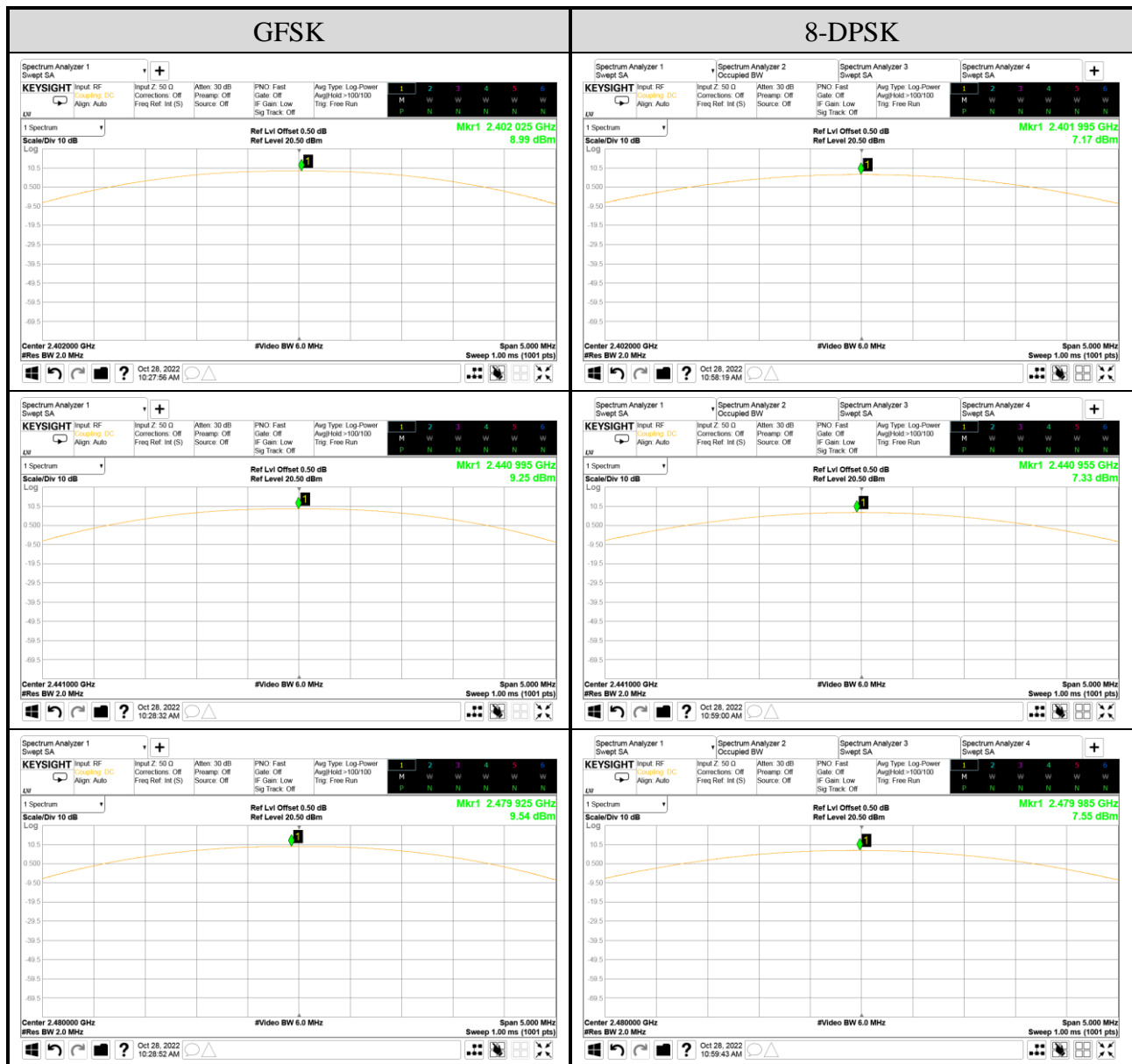
## A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2022/10/28	Temp./Hum.	23°C/61%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

### A.7.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	8.99	0.008	21dBm (0.125W)
	2441	9.25	0.008	
	2480	9.54	0.009	
8-DPSK	2402	7.17	0.005	
	2441	7.33	0.005	
	2480	7.55	0.006	

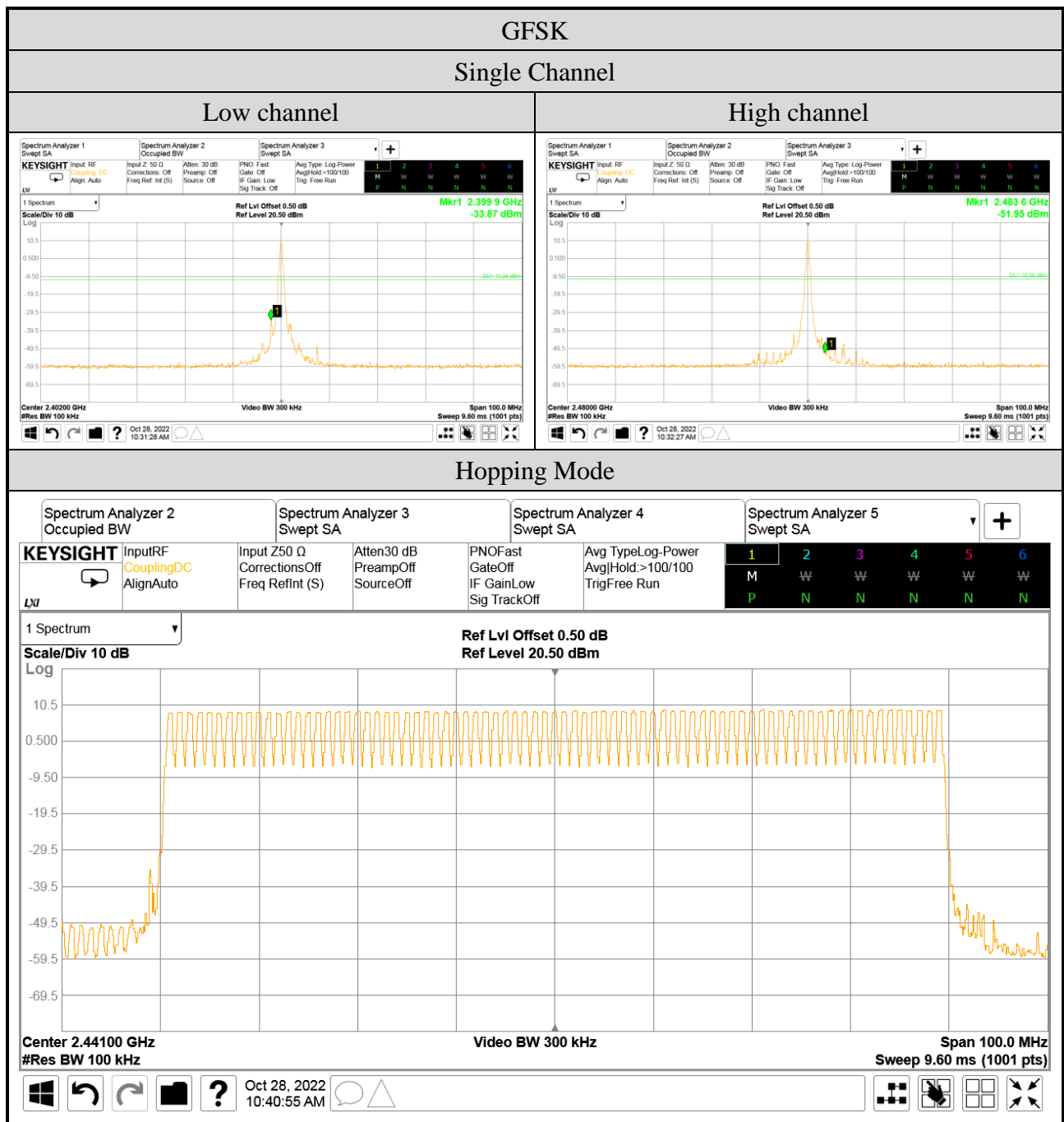
### A.7.2 Measurement Plots

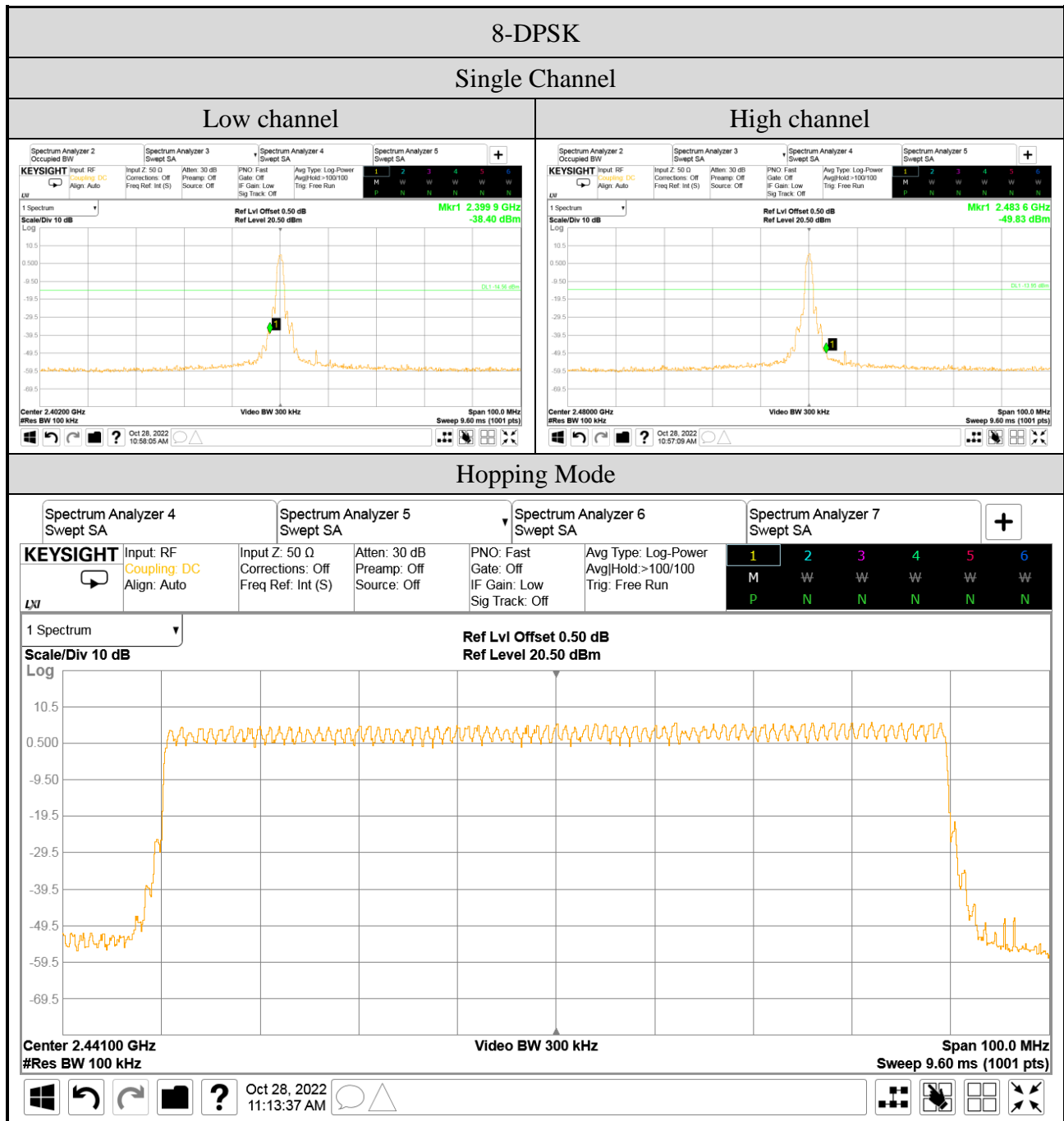


## A.8 EMISSION LIMITATIONS MEASUREMENT

Test Date	2022/10/28	Temp./Hum.	23°C/61%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

### A.8.1 Band Edge





A.8.2 Spurious Emission



Note: All results have been included cable loss.