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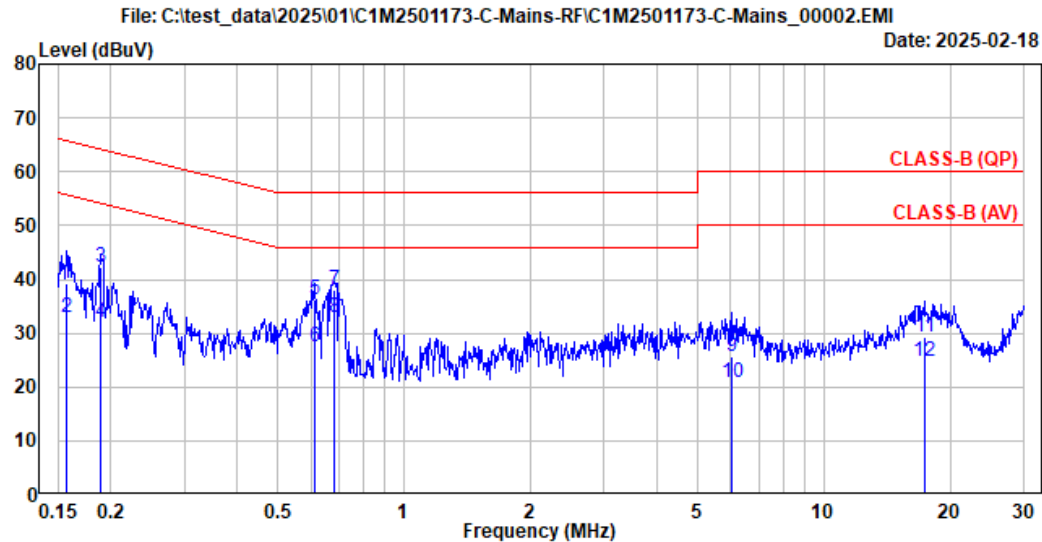
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A.1 CONDUCTED EMISSION

Test Date	2025/02/18	Temp./Hum.	20°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



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	: 20°C/52%	Test Rating	: 120Vac/60Hz
EUT Model	: 16Z90TR	Engineer	: Nick Du
Test Mode	: OPERATING		

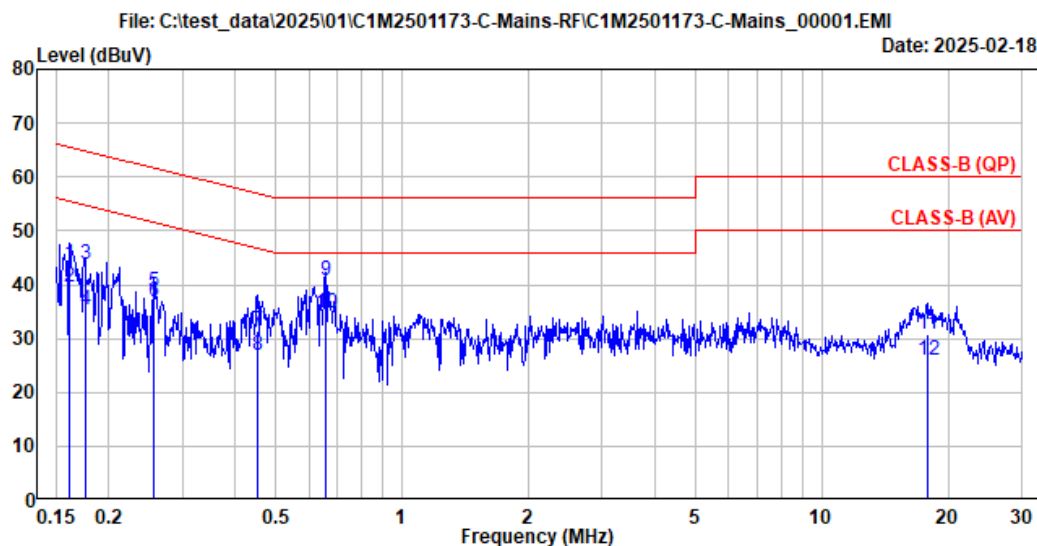
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.157	10.27	0.03	9.87	19.18	39.35	65.63	26.28	QP
2	0.157	10.27	0.03	9.87	12.67	32.84	55.63	22.79	Average
3	0.189	10.26	0.03	9.86	22.00	42.15	64.10	21.95	QP
4	0.189	10.26	0.03	9.86	11.93	32.08	54.10	22.02	Average
5	0.615	10.26	0.03	9.88	16.01	36.18	56.00	19.82	QP
6	0.615	10.26	0.03	9.88	7.32	27.49	46.00	18.51	Average
7	0.683	10.27	0.04	9.88	17.94	38.13	56.00	17.87	QP
8	0.683	10.27	0.04	9.88	12.75	32.94	46.00	13.06	Average
9	6.027	10.44	0.10	9.92	5.10	25.56	60.00	34.44	QP
10	6.027	10.44	0.10	9.92	0.42	20.88	50.00	29.12	Average
11	17.338	10.82	0.19	10.00	8.42	29.43	60.00	30.57	QP
12	17.338	10.82	0.19	10.00	3.82	24.83	50.00	25.17	Average

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

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Test Date	2025/02/18	Temp./Hum.	20°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



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	: 20°C/52%	Test Rating	: 120Vac/60Hz
EUT Model	: 16Z90TR	Engineer	: Nick Du
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	0.162	10.26	0.03	9.87	23.63	43.79	65.38	21.59	QP
2	0.162	10.26	0.03	9.87	19.47	39.63	55.38	15.75	Average
3	0.176	10.25	0.03	9.86	23.57	43.71	64.68	20.97	QP
4	0.176	10.25	0.03	9.86	15.10	35.24	54.68	19.44	Average
5	0.257	10.25	0.03	9.87	18.56	38.71	61.53	22.82	QP
6	0.257	10.25	0.03	9.87	16.64	36.79	51.53	14.74	Average
7	0.451	10.25	0.03	9.88	11.24	31.40	56.85	25.45	QP
8	0.451	10.25	0.03	9.88	6.66	26.82	46.85	20.03	Average
9	0.656	10.26	0.04	9.88	20.44	40.62	56.00	15.38	QP
10	0.656	10.26	0.04	9.88	14.46	34.64	46.00	11.36	Average
11	17.865	10.60	0.19	10.00	10.06	30.85	60.00	29.15	QP
12	17.865	10.60	0.19	10.00	5.21	26.00	50.00	24.00	Average

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

A.2 RADIATED EMISSION

Test Date	2025/01/23~02/18	Temp./Hum.	20°C/56%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Harry Huang

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	8-DPSK	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
33.000	22.69	1.41	26.47	31.99	29.62	40.00	10.38	Peak
196.000	14.88	3.51	25.80	43.98	36.56	43.50	6.94	Peak
293.500	18.52	4.44	25.61	41.29	38.65	46.00	7.35	Peak
689.500	24.48	7.26	27.41	31.90	36.23	46.00	9.77	Peak
742.500	24.75	7.53	27.32	39.22	44.17	46.00	1.83	Peak
980.500	26.84	8.90	26.76	27.33	36.31	54.00	17.69	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
31.500	23.36	1.39	26.47	39.27	37.54	40.00	2.46	Peak
98.000	16.10	2.47	26.28	48.65	40.94	43.50	2.56	Peak
445.500	21.93	6.20	26.73	36.29	37.69	46.00	8.31	Peak
485.500	22.60	6.53	26.99	33.95	36.09	46.00	9.91	Peak
742.500	24.75	7.53	27.32	38.68	43.64	46.00	2.36	Peak
977.000	26.81	8.88	26.77	28.14	37.07	54.00	16.93	Peak

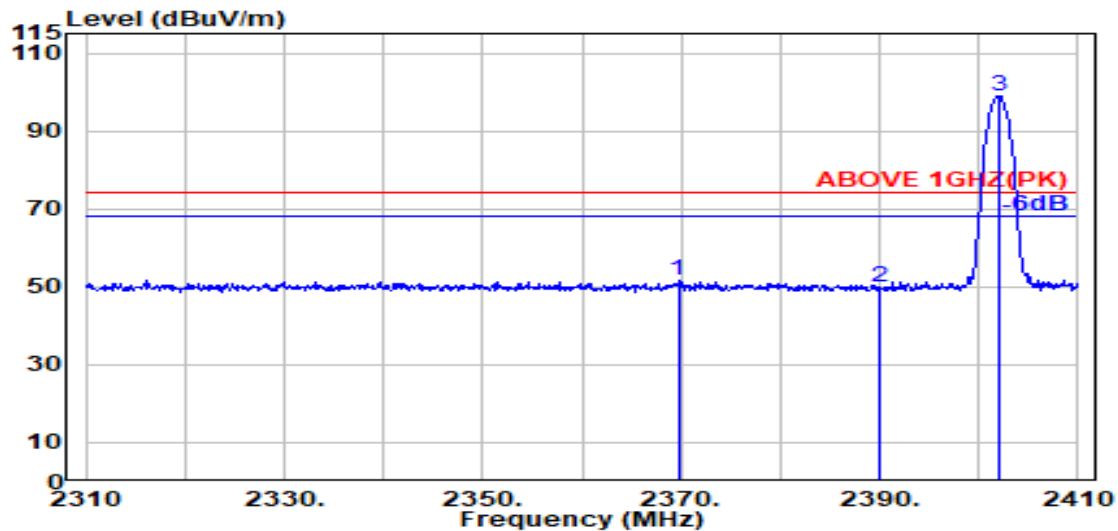
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

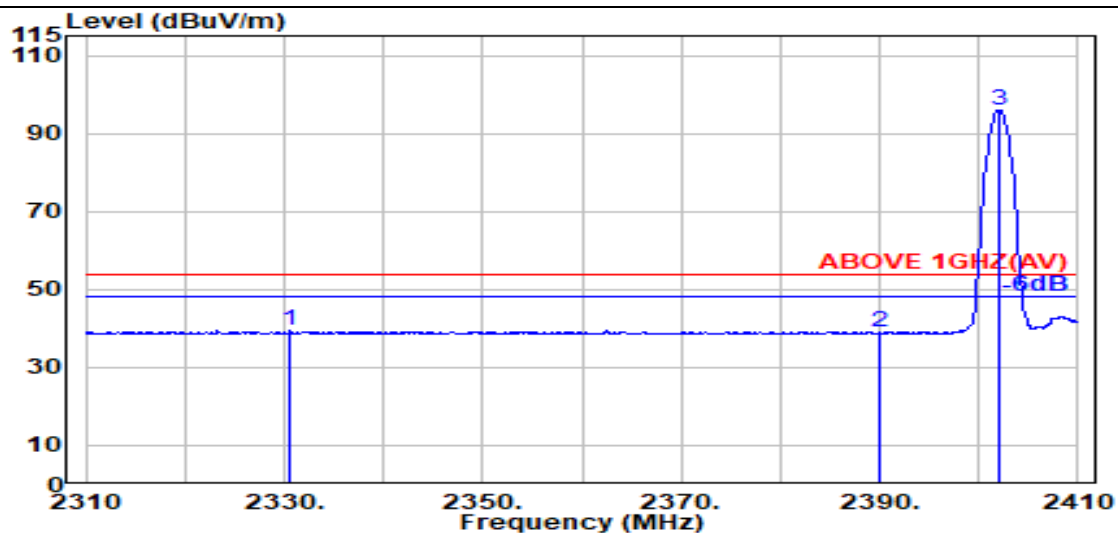
Band Edge:

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
2369.700	28.22	5.70	39.88	57.81	51.85	74.00	22.15	Peak
2390.000	28.14	5.72	39.88	55.82	49.80	74.00	24.20	Peak
@ 2402.000	28.11	5.74	39.88	105.06	99.03	---	---	Peak

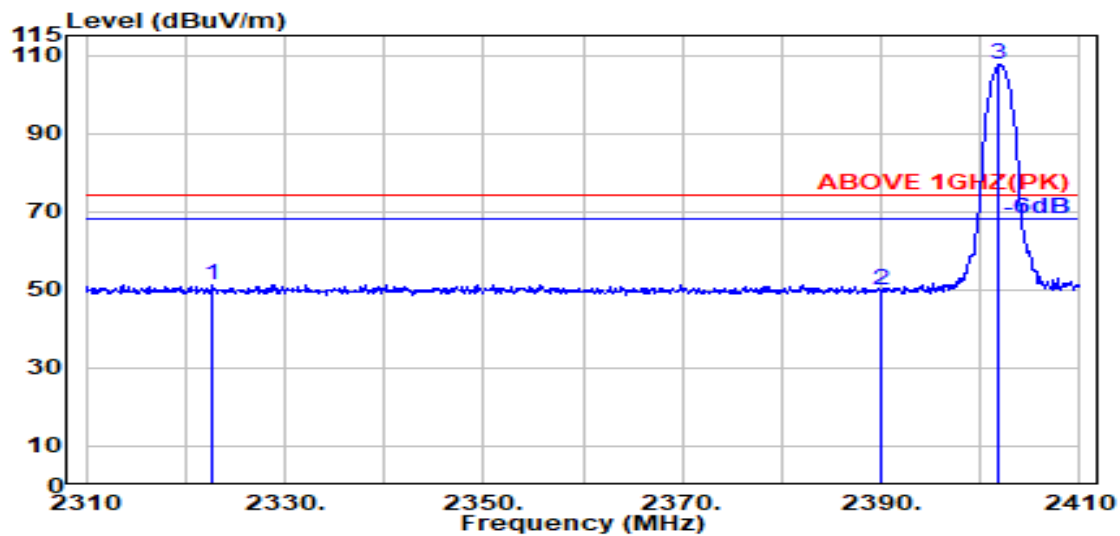


Antenna at Horizontal Polarization

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
2330.500	28.18	5.65	39.88	45.42	39.37	54.00	14.63	Average
2390.000	28.14	5.72	39.88	44.86	38.84	54.00	15.16	Average
@ 2402.100	28.11	5.74	39.88	101.85	95.82	---	---	Average

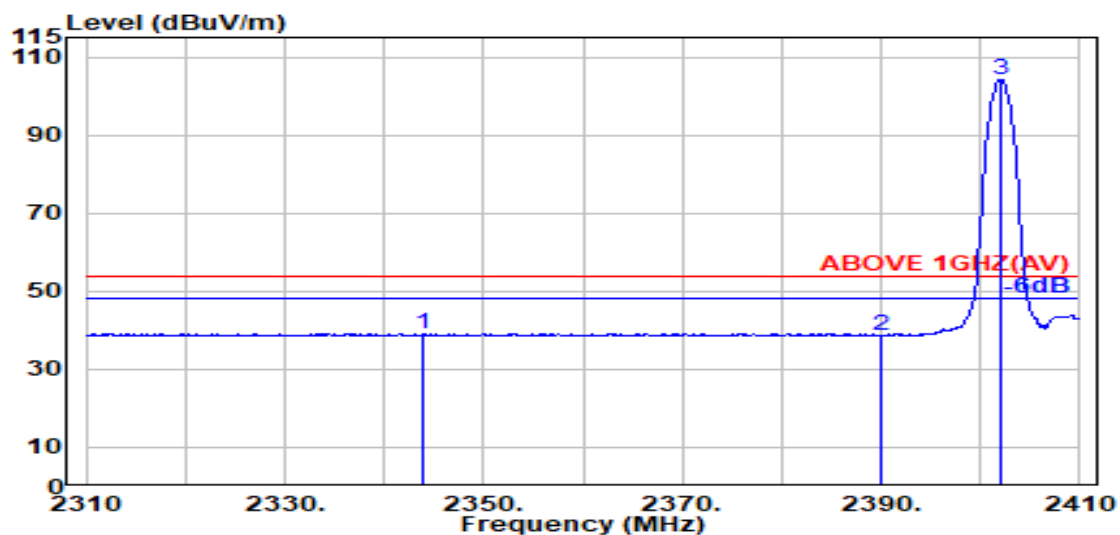
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2322.800	28.14	5.64	39.88	57.47	51.36	74.00	22.64	Peak
2390.000	28.14	5.72	39.88	56.00	49.99	74.00	24.01	Peak
@ 2401.900	28.11	5.74	39.88	113.58	107.54	---	---	Peak

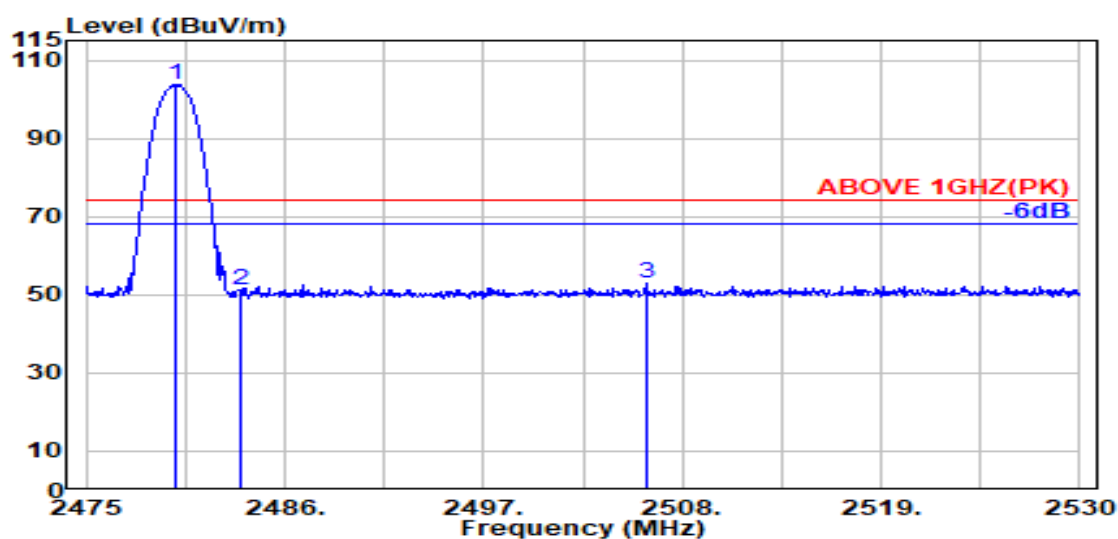


Antenna at Vertical Polarization

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
2343.900	28.26	5.67	39.88	45.21	39.25	54.00	14.75	Average
2390.000	28.14	5.72	39.88	44.63	38.61	54.00	15.39	Average
@ 2402.000	28.11	5.74	39.88	110.36	104.33	---	---	Average

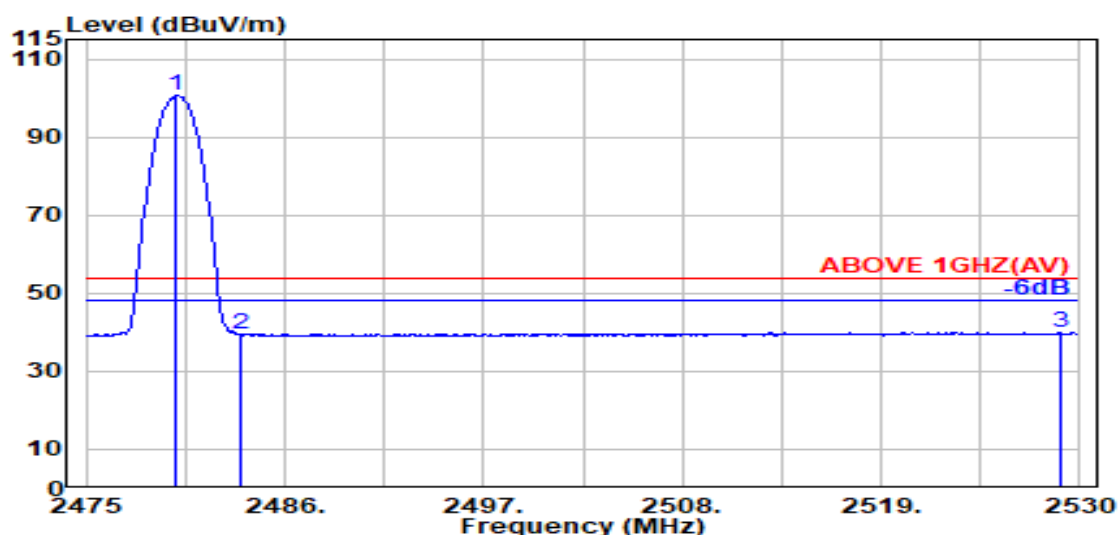
Remark: The “@” means fundamental frequency, it is ignored in this section.

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	28.36	5.83	39.87	109.56	103.87	---	---	Peak
2483.500	28.37	5.83	39.87	56.98	51.31	74.00	22.69	Peak
2506.000	28.44	5.86	39.87	58.44	52.86	74.00	21.14	Peak

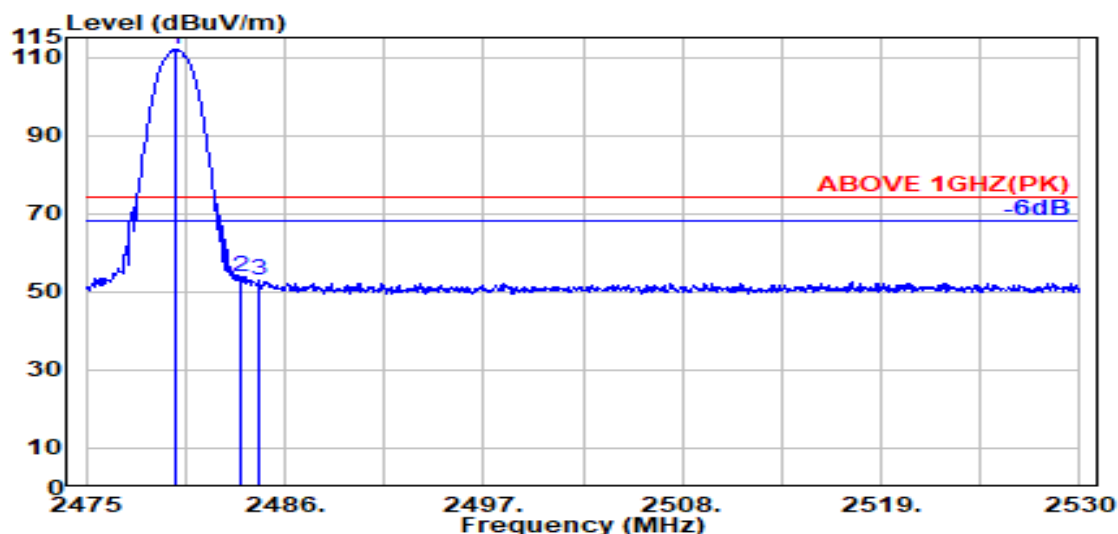


Antenna at Horizontal Polarization

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	28.36	5.83	39.87	106.36	100.68	---	---	Average
2483.500	28.37	5.83	39.87	45.28	39.60	54.00	14.40	Average
2528.900	28.57	5.89	39.88	45.47	40.05	54.00	13.95	Average

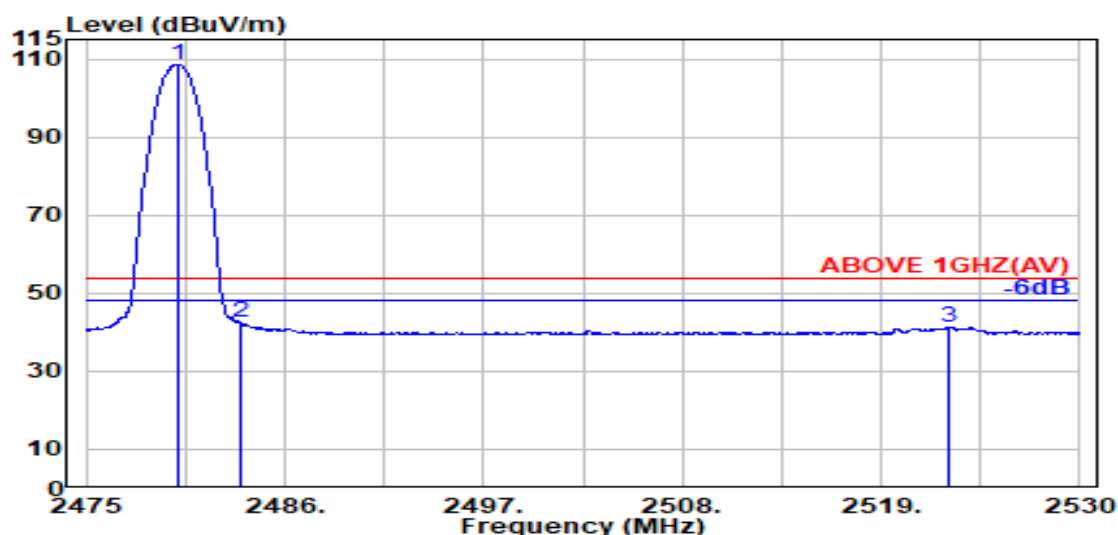
Remark: The “@” means fundamental frequency, it is ignored in this section.

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 (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2479.950	28.36	5.83	39.87	117.69	112.00	---	---	Peak
2483.500	28.37	5.83	39.87	59.41	53.74	74.00	20.26	Peak
2484.500	28.37	5.83	39.87	58.53	52.86	74.00	21.14	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
@ 2480.050	28.36	5.83	39.87	114.39	108.70	---	---	Average
2483.500	28.37	5.83	39.87	48.05	42.38	54.00	11.62	Average
2522.800	28.54	5.88	39.88	46.90	41.44	54.00	12.56	Average

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

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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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	40.04	41.78	54.00	12.22	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	32.92	8.13	39.30	39.14	40.88	54.00	13.12	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	38.97	41.03	54.00	12.97	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	33.16	8.16	39.26	39.27	41.34	54.00	12.66	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	37.92	40.13	54.00	13.87	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	33.24	8.20	39.23	38.62	40.84	54.00	13.16	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	2025/02/04~05	Temp./Hum.	20°C/60%
Cable Loss	2.35dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 20dB Bandwidth Result

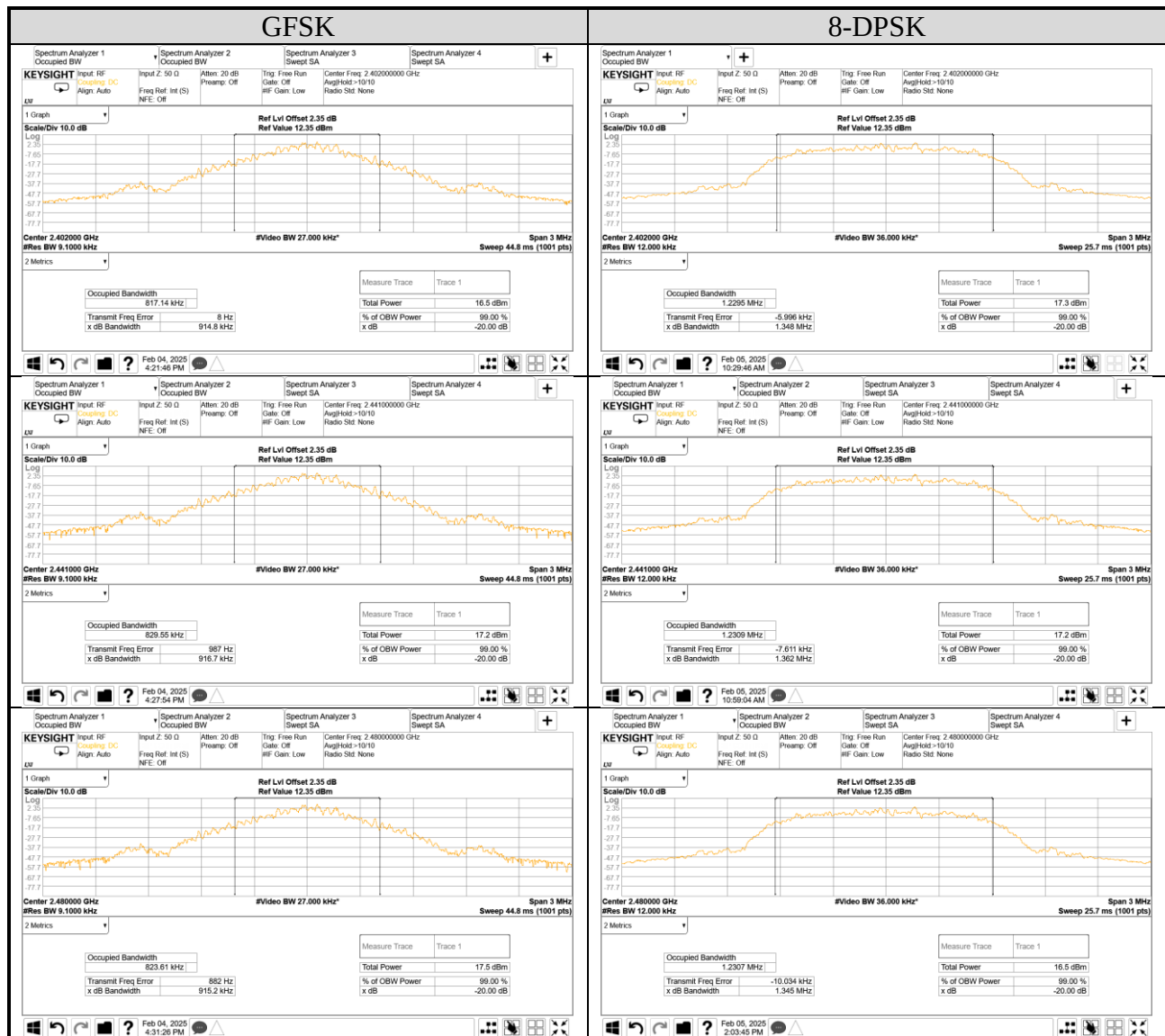
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9148	0.81714	0.610
	2441	0.9167	0.82955	0.611
	2480	0.9152	0.82361	0.610
8-DPSK	2402	1.348	1.2295	0.899
	2441	1.362	1.2309	0.908
	2480	1.345	1.207	0.897

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

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A.3.2 Measurement Plots

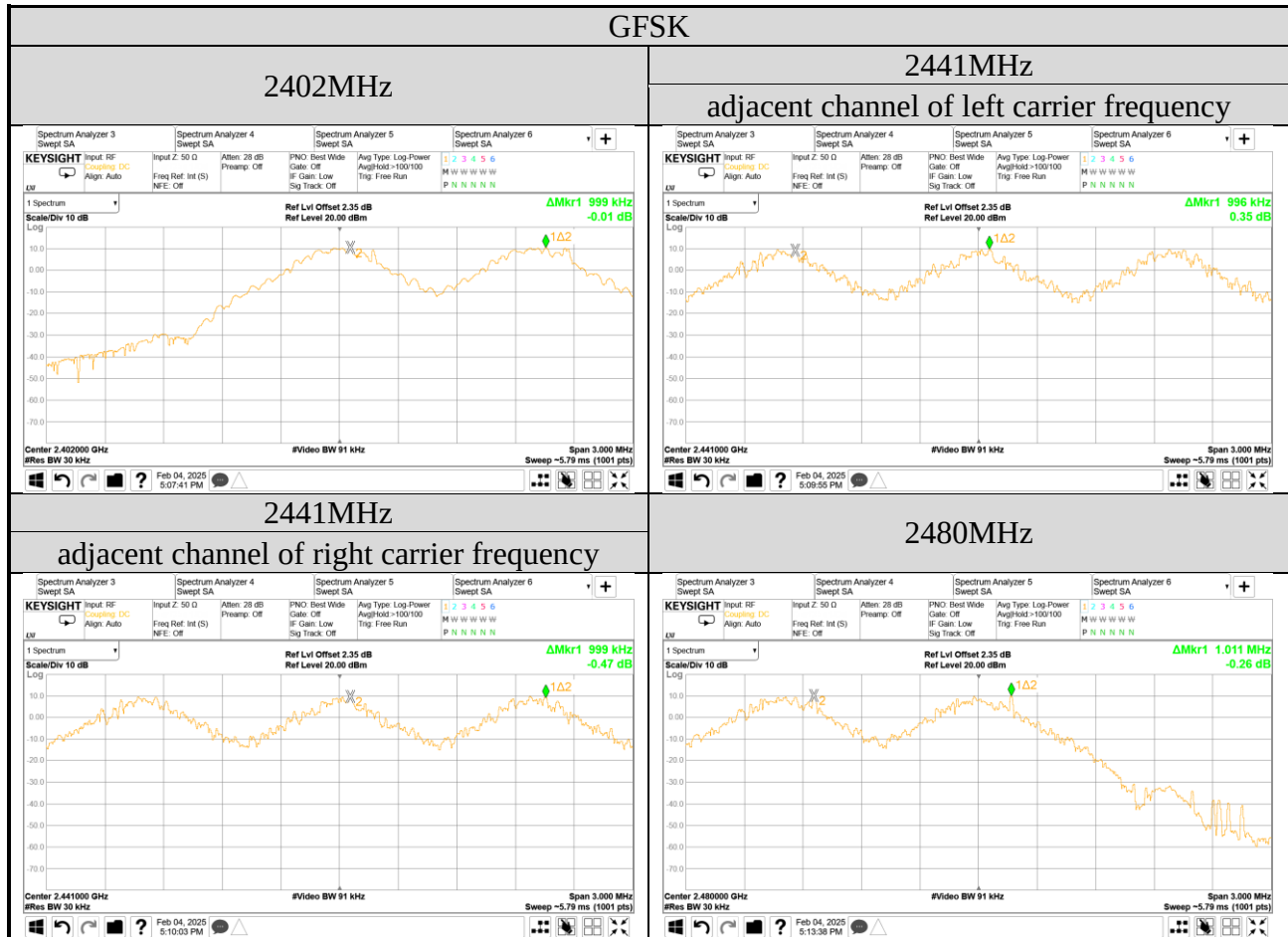


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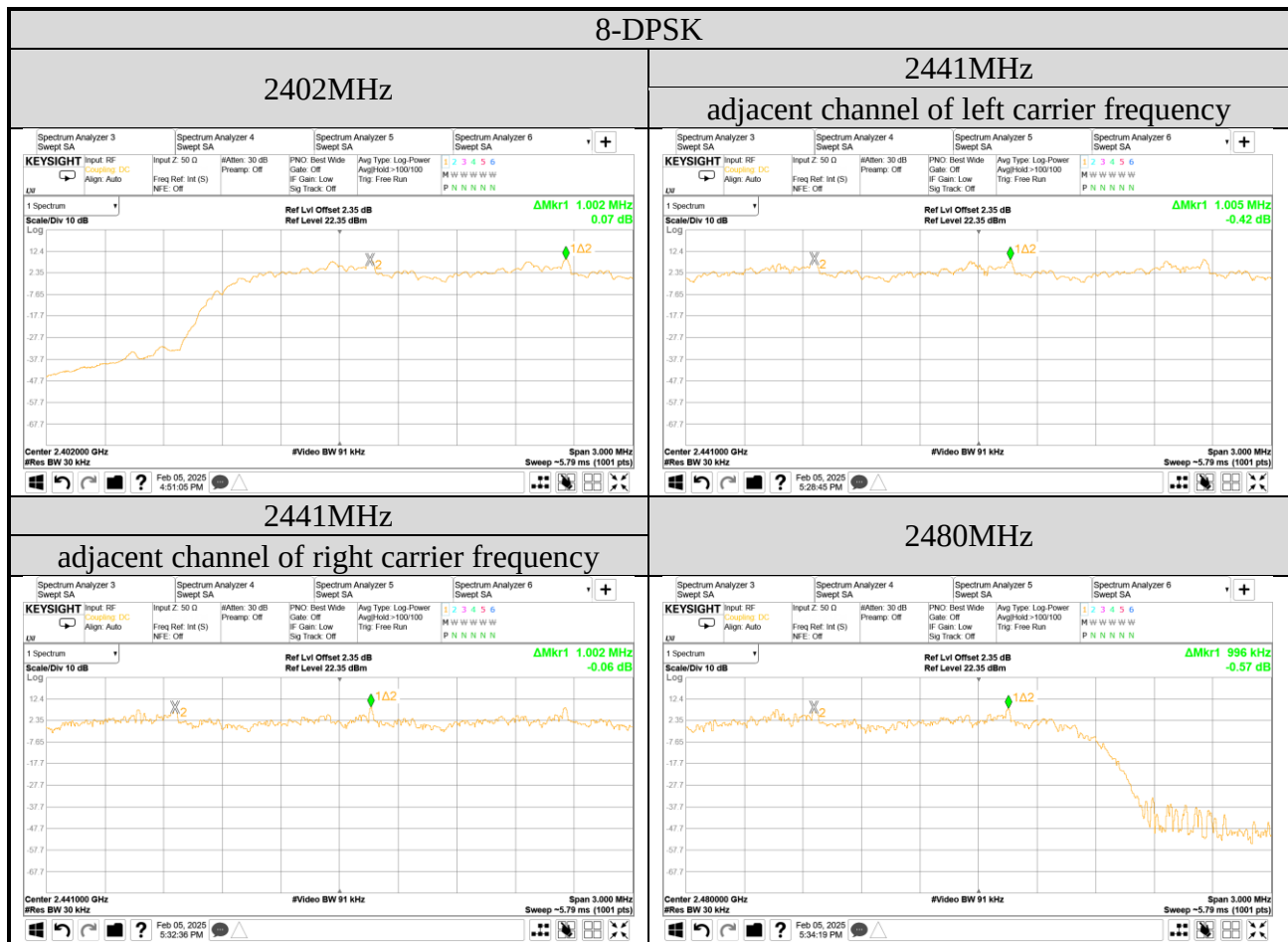
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2025/02/04~05	Temp./Hum.	20°C/60%
Cable Loss	2.35dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



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A.5 TIME OF OCCUPANCY

Test Date	2025/02/04~05	Temp./Hum.	20°C/60%
Cable Loss	2.35dB	Tested By	Sean Wang
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	0.370	116.920	<400
		DH3	5	1.630	257.540	<400
		DH5	2	2.870	181.384	<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* 0.370 ms= 116.920 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 2 transmission appearance,the longest time of occupancy is

2 transmission* 31.6 seconds* 2.870 ms= 181.384 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	0.380	120.080	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	273.024	<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* 1.630 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)

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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	0.380	120.080	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	273.024	<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 * 1.630 ms = 257.540 ms (<400ms)

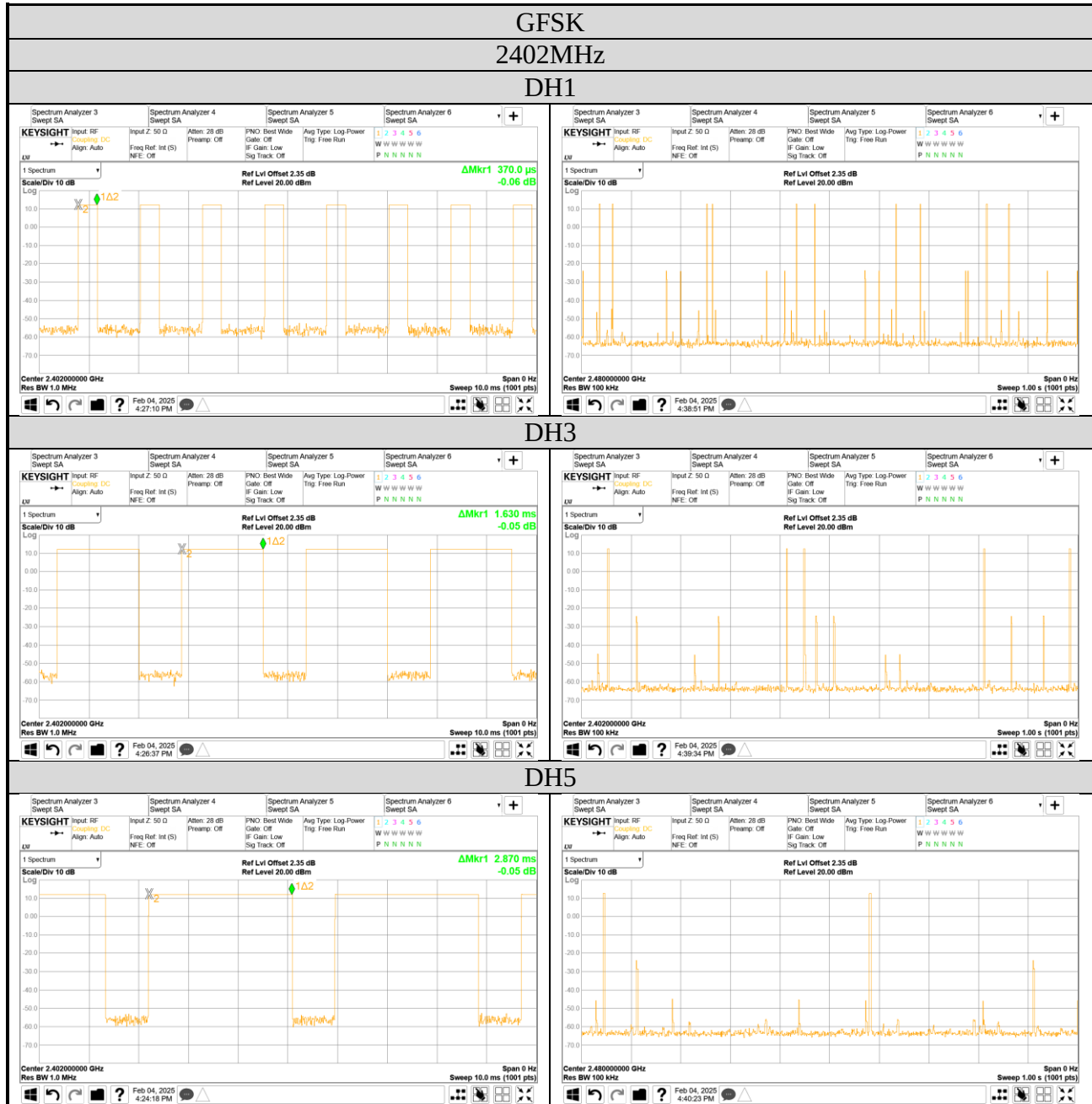
DH5 Mode

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)

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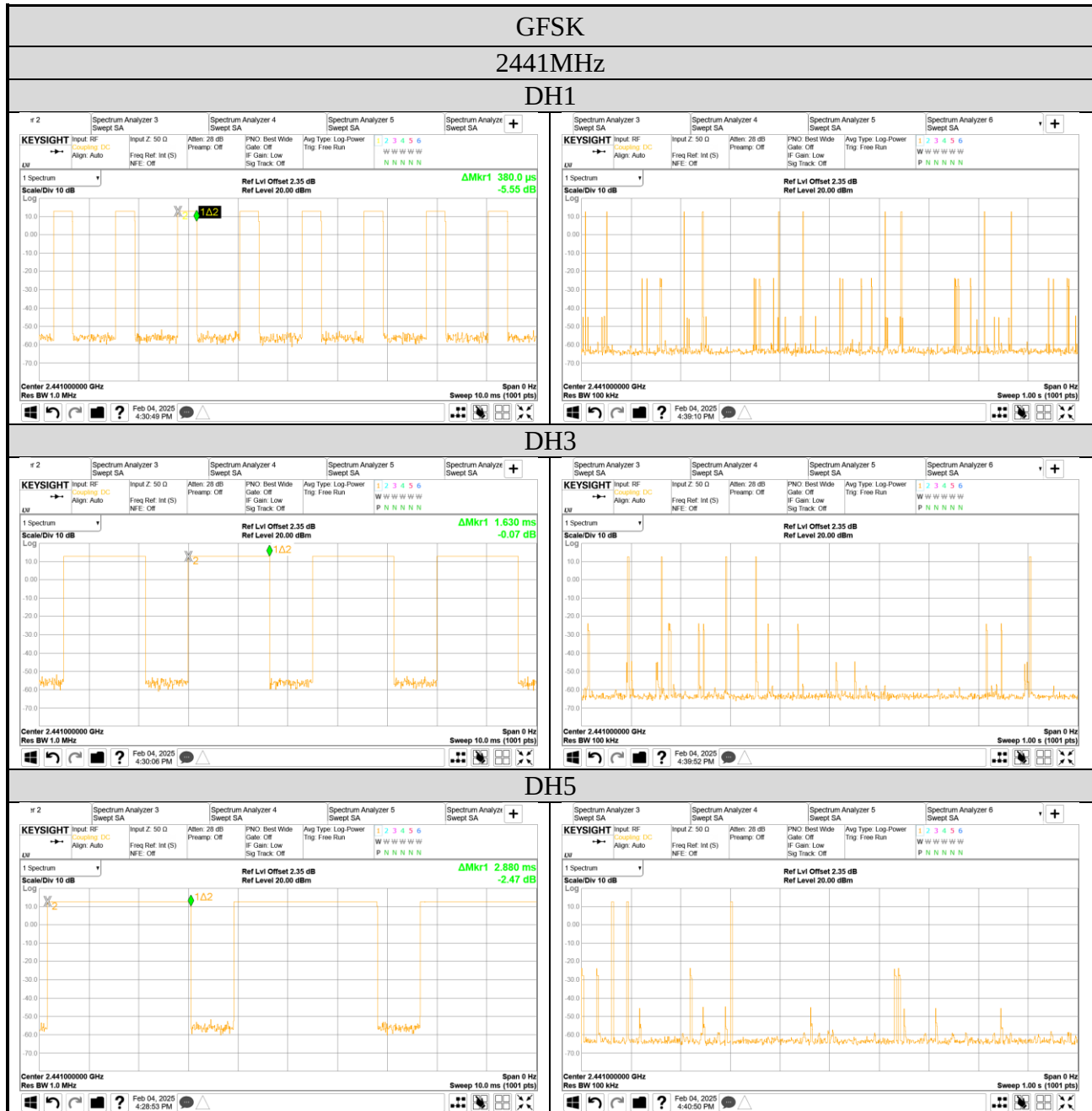
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● Measurement Plots

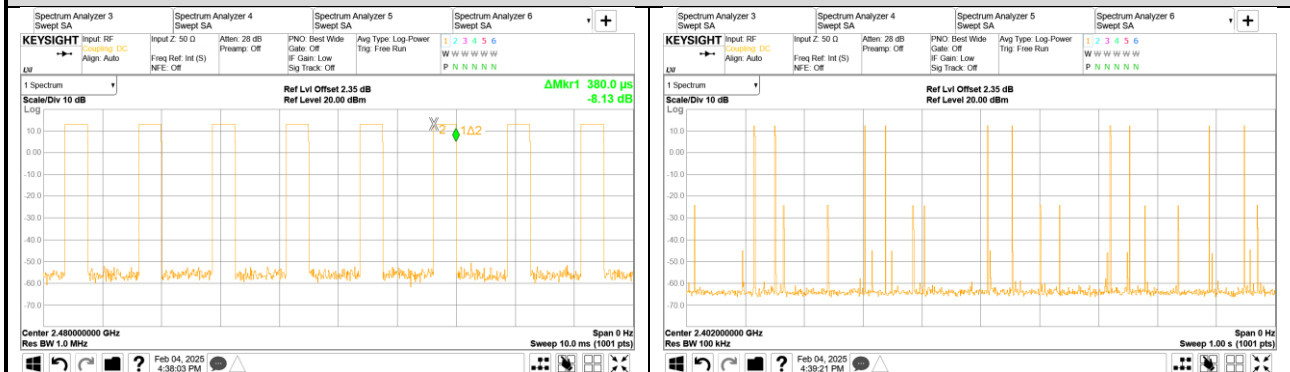


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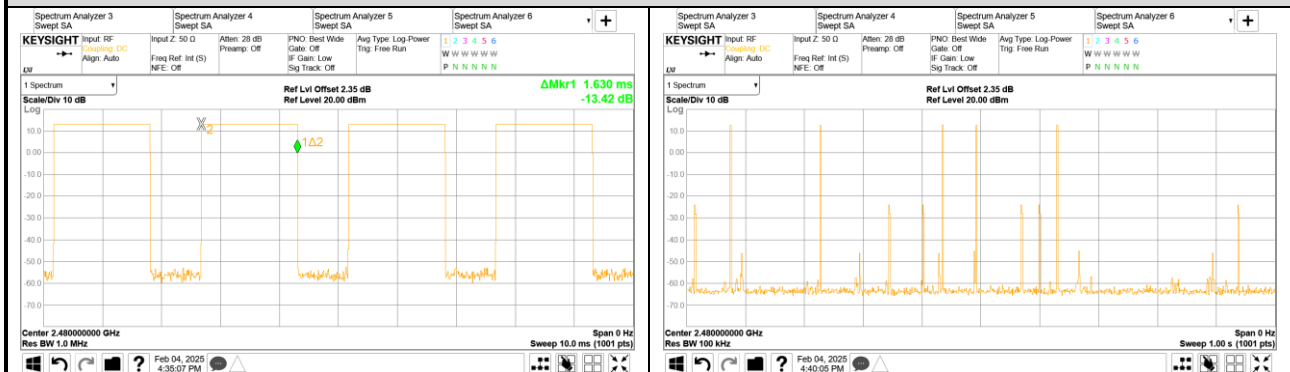
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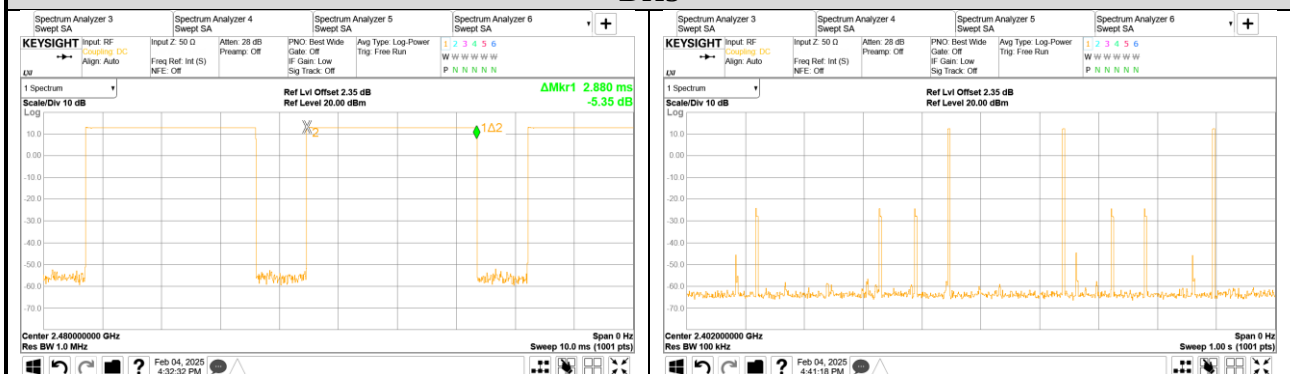
GFSK 2480MHz DH1



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	0.380	120.080	<400
		3DH3	4	1.630	206.032	<400
		3DH5	2	2.880	182.016	<400

Observation Period:

79 channels * 0.4 seconds = 31.6 seconds

3DH1 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)

3DH3 Mode

For each second of 4 transmission appearance, the longest time of occupancy is
4 transmission * 31.6 seconds * 1.630 ms = 206.032 ms (<400ms)

3DH5 Mode

For each second of 2 transmission appearance, the longest time of occupancy is
2 transmission * 31.6 seconds * 2.880 ms = 182.016 ms (<400ms)

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	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	2	2.880	182.016	<400

Observation Period:

79 channels * 0.4 seconds = 31.6 seconds

3DH1 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)

3DH3 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)

3DH5 Mode

For each second of 2 transmission appearance, the longest time of occupancy is
2 transmission * 31.6 seconds * 2.880 ms = 182.016 ms (<400ms)

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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	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	2	2.880	182.016	<400

Observation Period:

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

3DH1 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)

3DH3 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)

3DH5 Mode

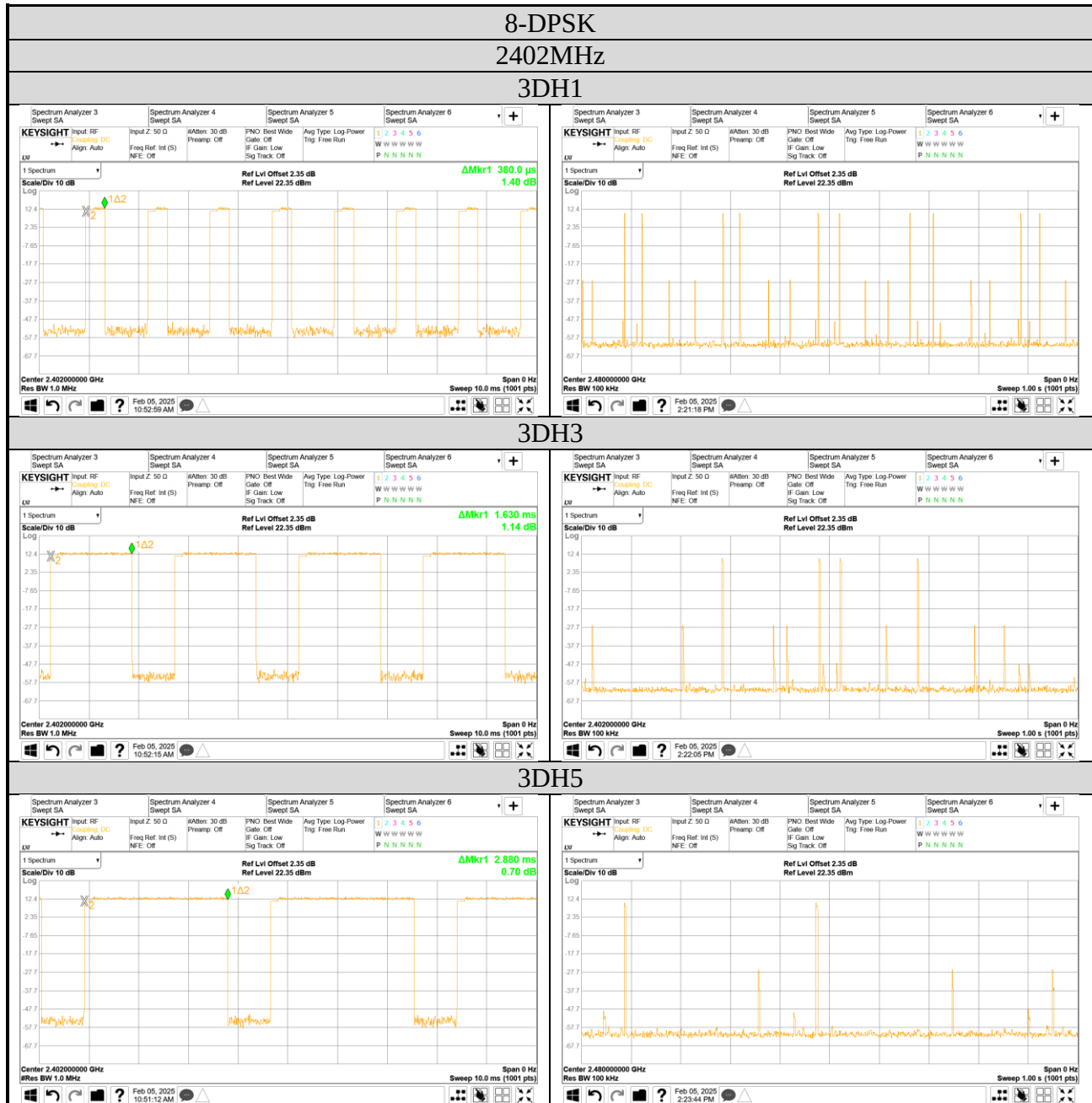
For each second of **2** transmission appearance, the longest time of occupancy is

2 transmission* **31.6** seconds* **2.880** ms= **182.016** ms (<400ms)

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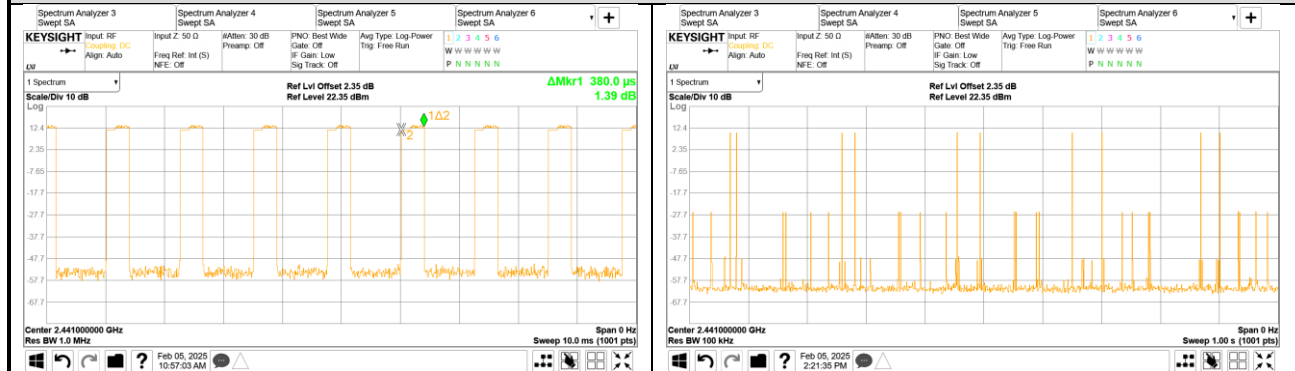
● Measurement Plots



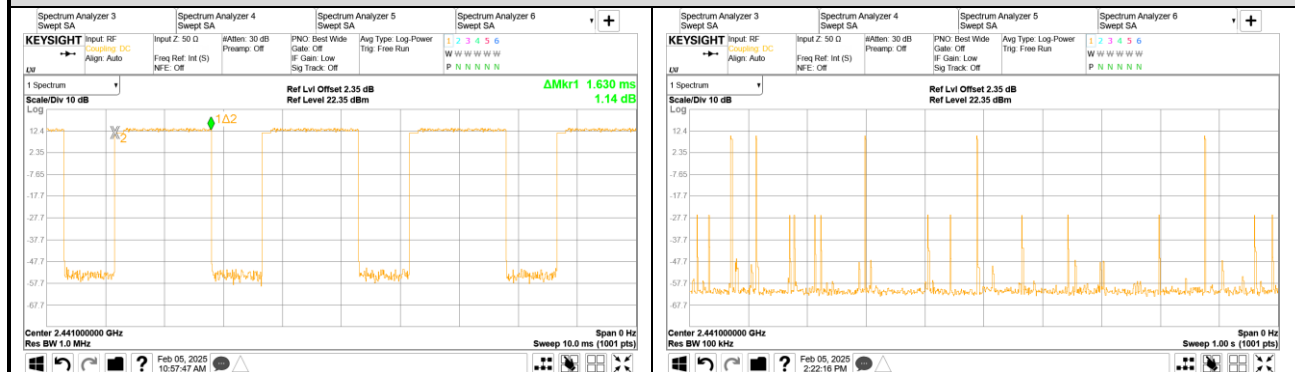
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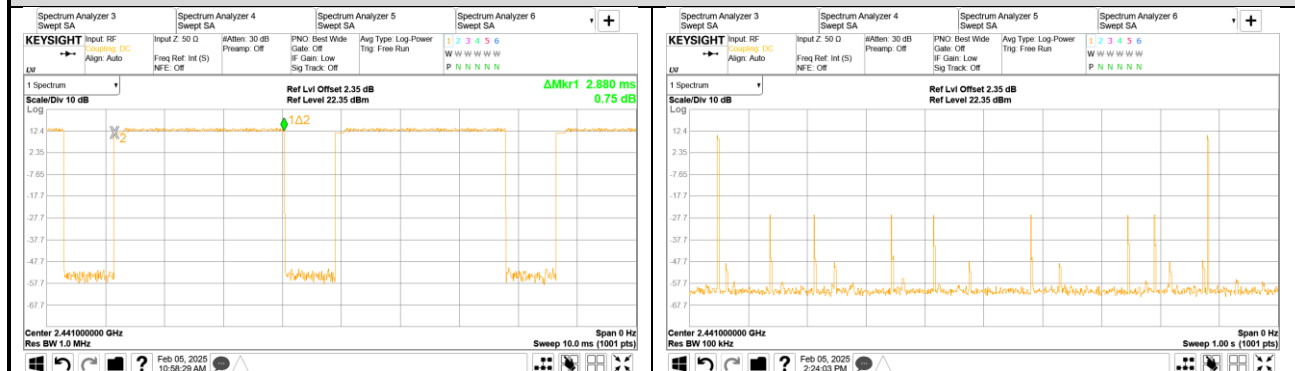
8-DPSK 2441MHz 3DH1



3DH3



3DH5



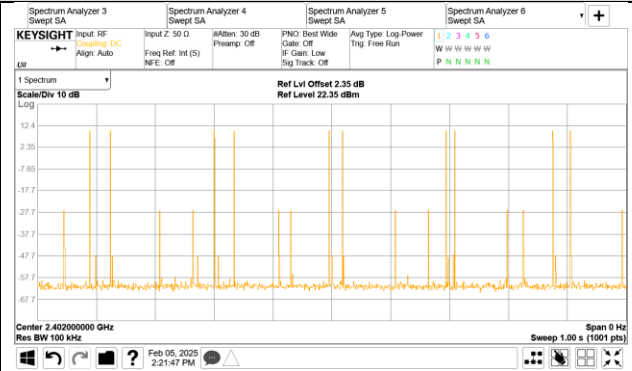
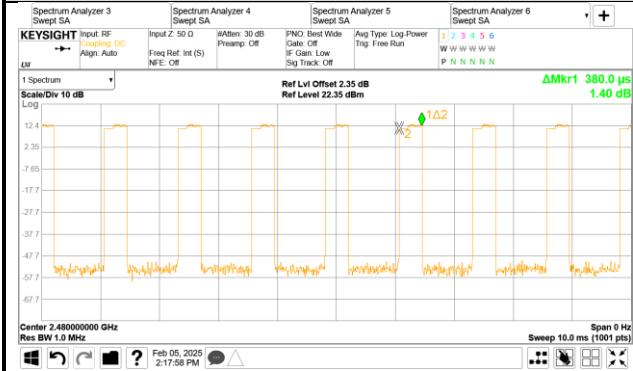
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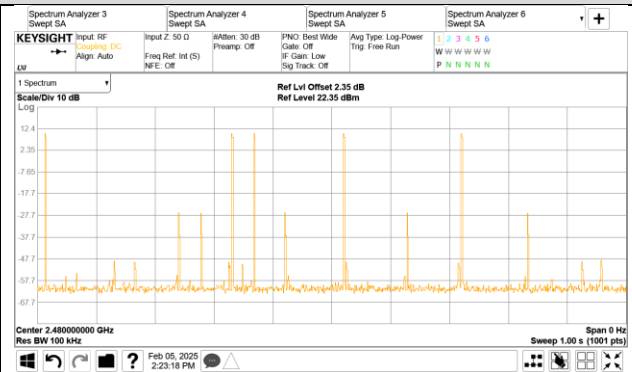
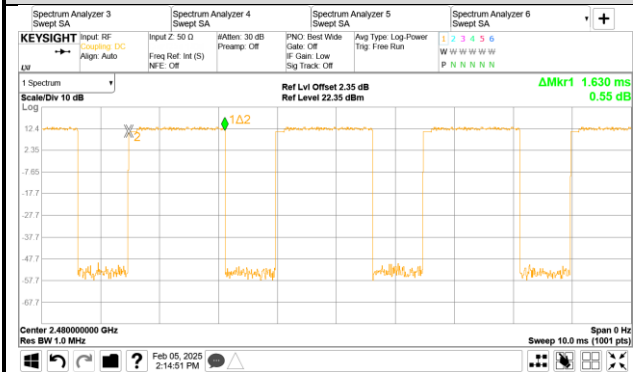
8-DPSK

2480MHz

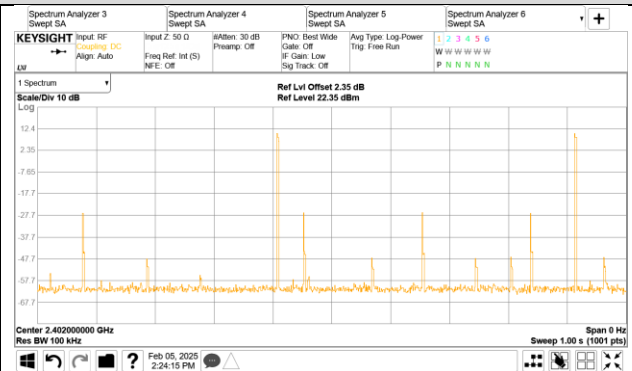
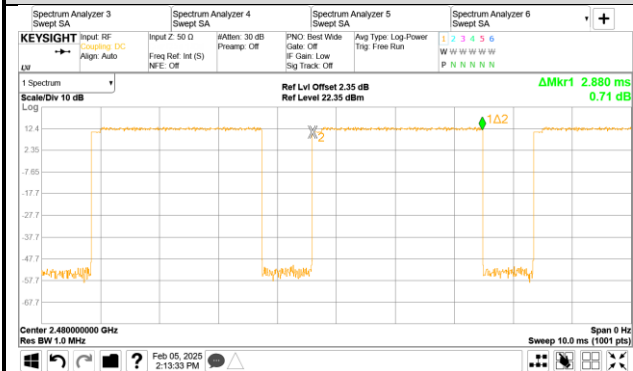
3DH1



3DH3



3DH5

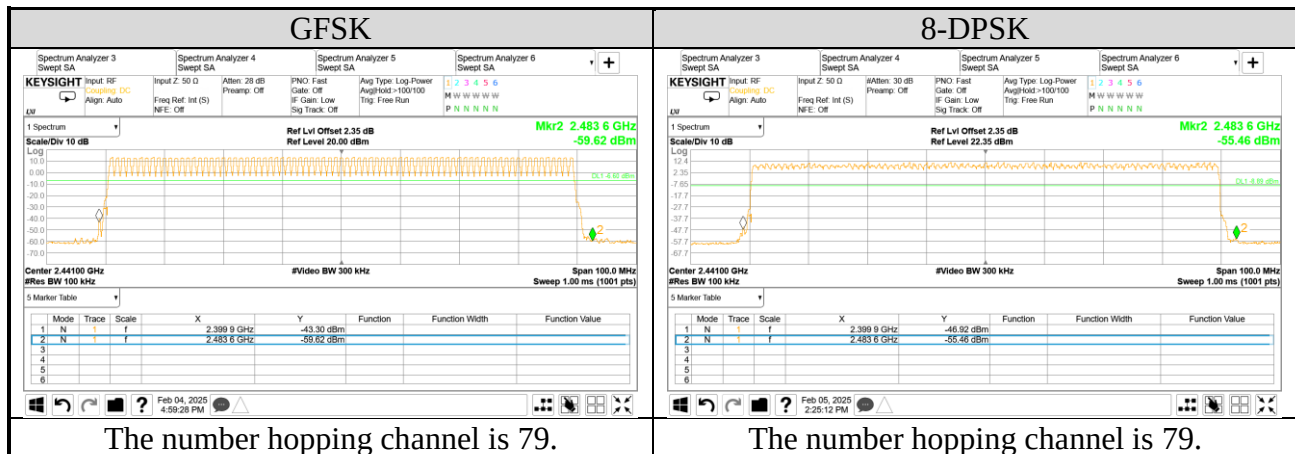


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2025/02/04~05	Temp./Hum.	20°C/60%
Cable Loss	2.35dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2025/02/04~05	Temp./Hum.	20°C/60%
Cable Loss	2.35dB	Tested By	Sean Wang
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	11.91	0.016	< 21dBm (0.125W)
	2441	12.94	0.020	
	2480	12.64	0.018	
8-DPSK	2402	13.48	0.022	
	2441	13.90	0.025	
	2480	13.17	0.021	

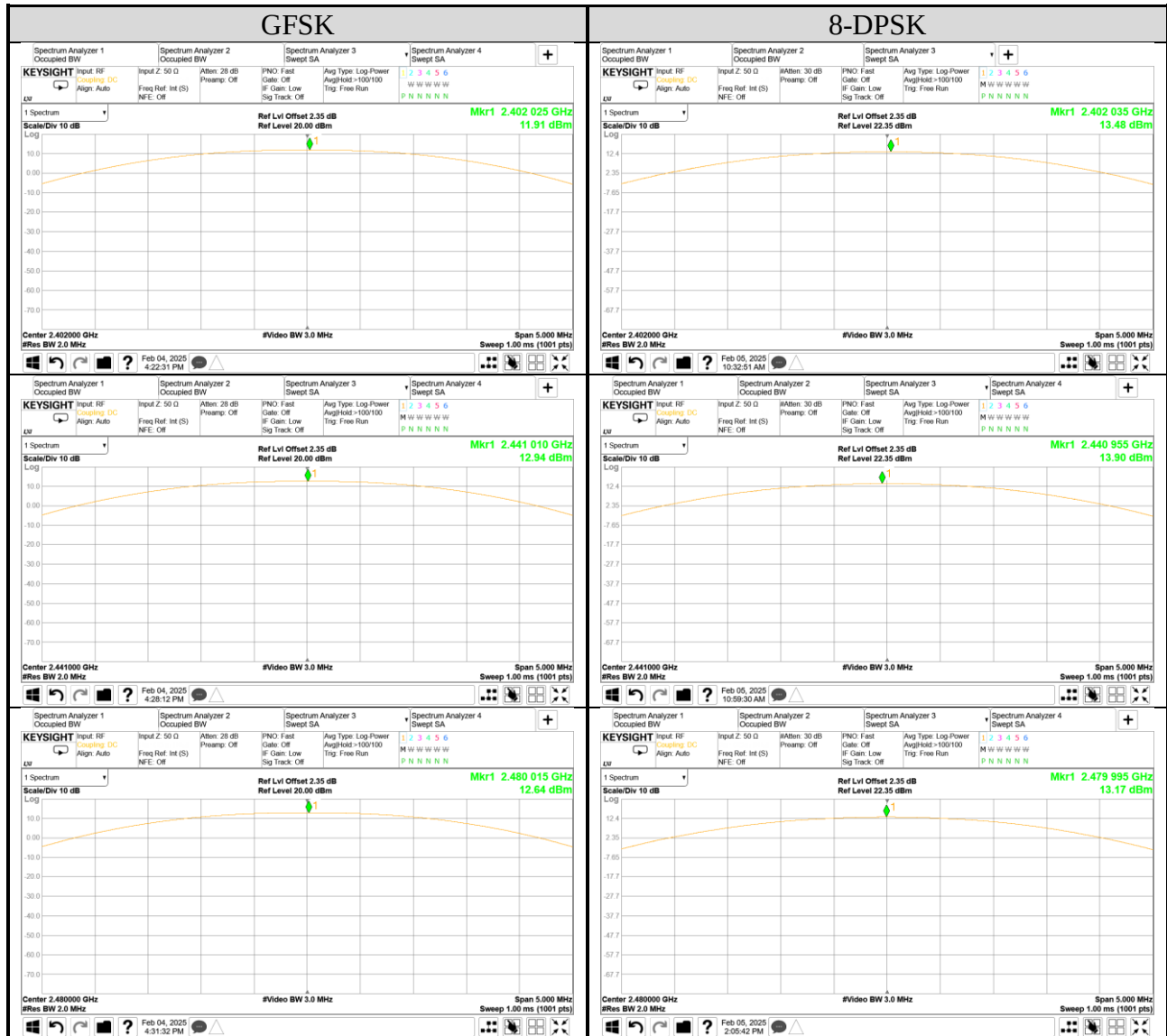
A.7.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	Duty cycle factor (dB) 10log (1/x)	Maximum Average Output Power		Limit
				(dBm)	(W)	
GFSK	2402	10.83	1.141	11.69	0.015	< 21dBm (0.125W)
	2441	11.92	1.141	11.92	0.016	
	2480	11.65	1.141	11.65	0.015	
8-DPSK	2402	10.17	1.141	11.31	0.014	
	2441	10.53	1.141	11.67	0.015	
	2480	10.05	1.141	11.19	0.013	

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● Measurement Plots



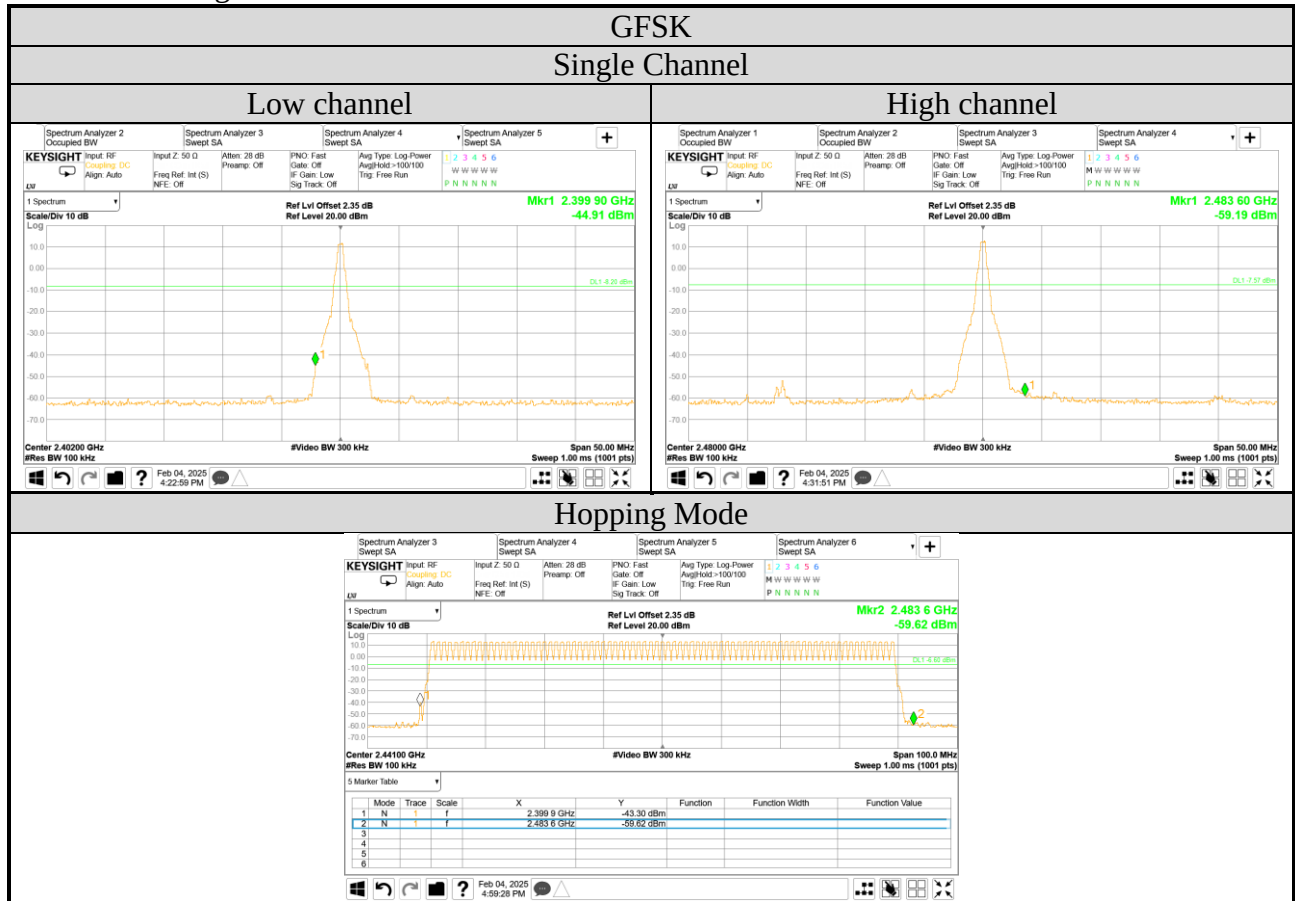
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A.8 EMISSION LIMITATIONS MEASUREMENT

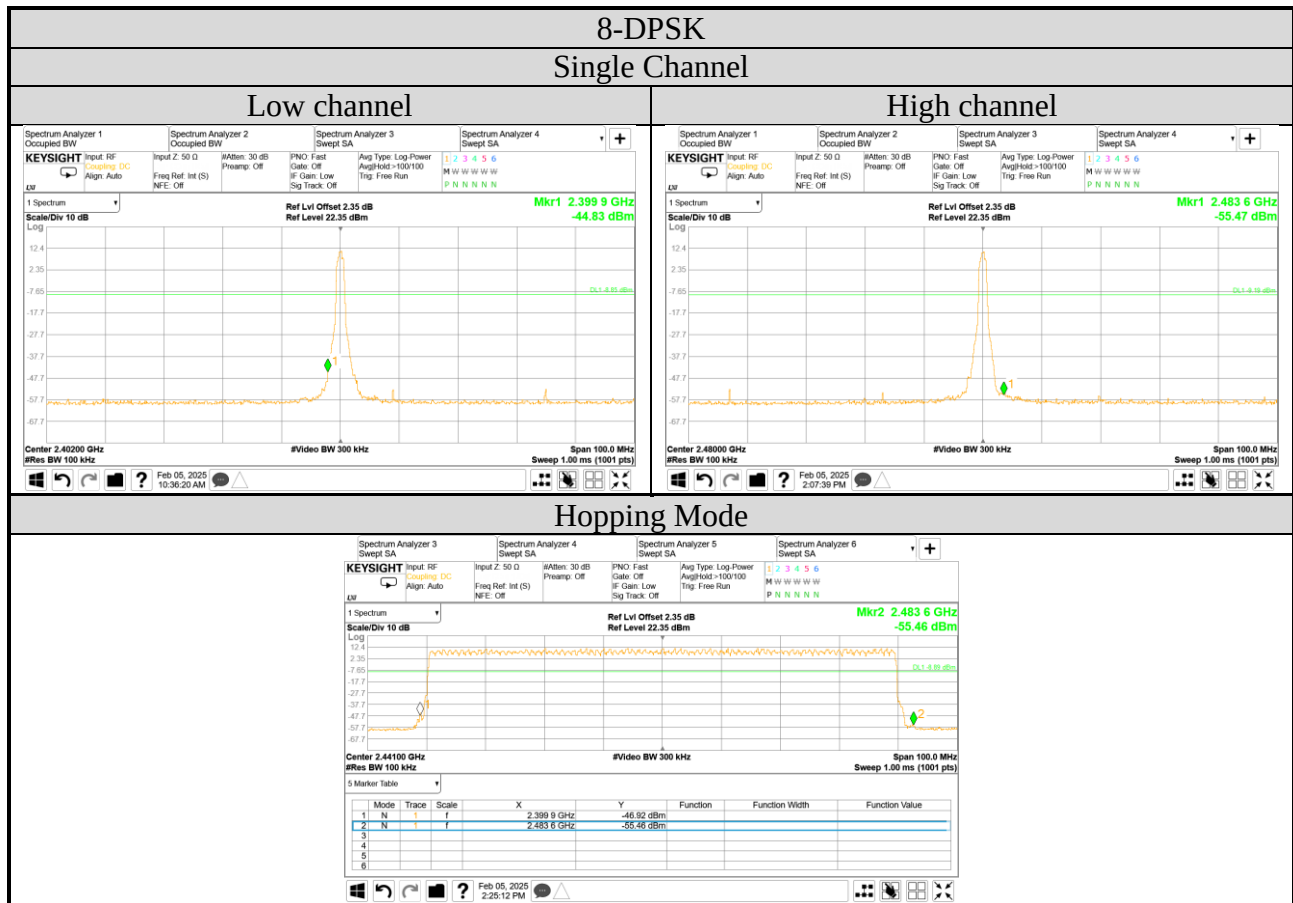
Test Date	2025/02/04~05	Temp./Hum.	20°C/60%
Cable Loss	2.35dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge



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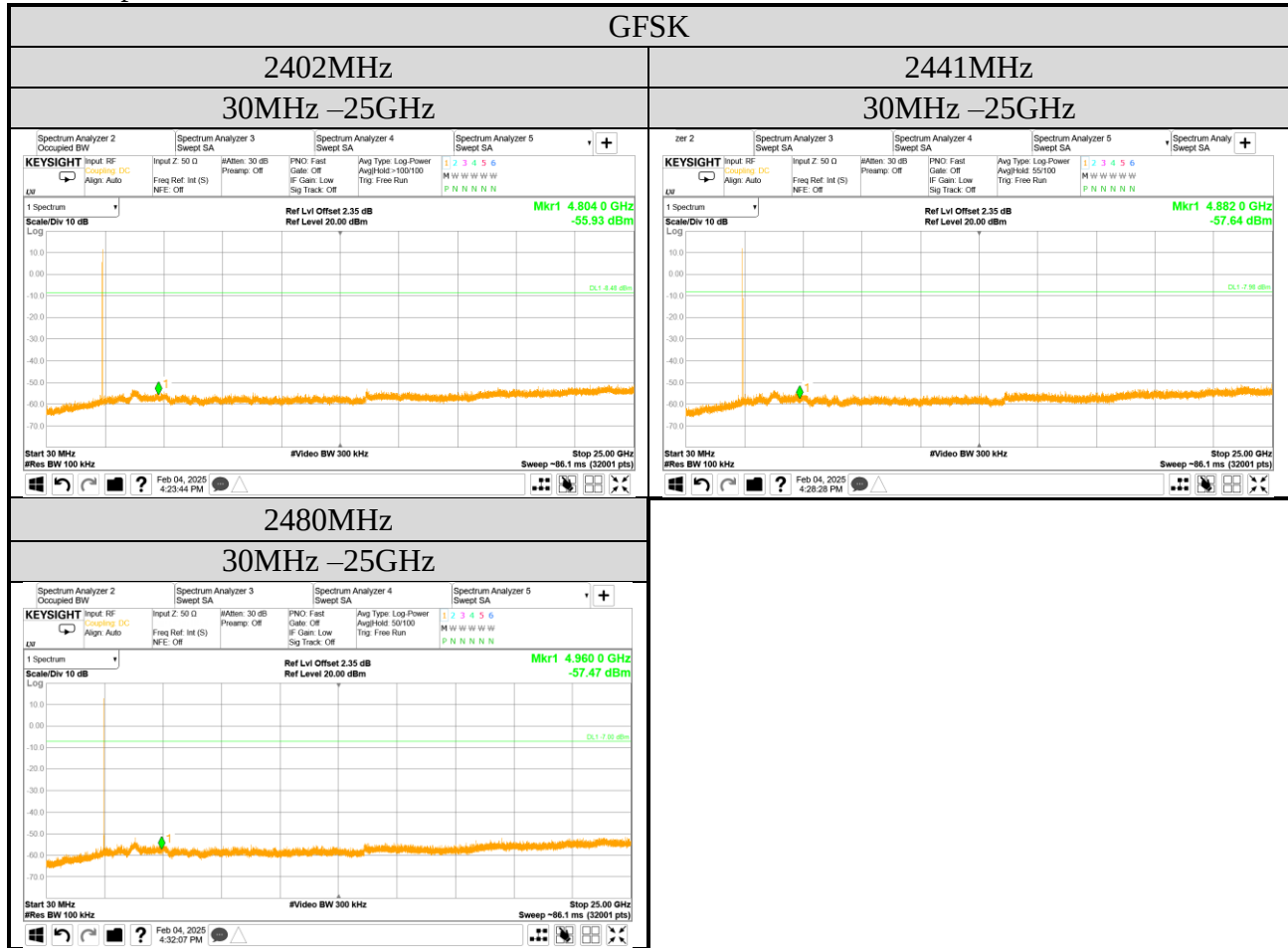
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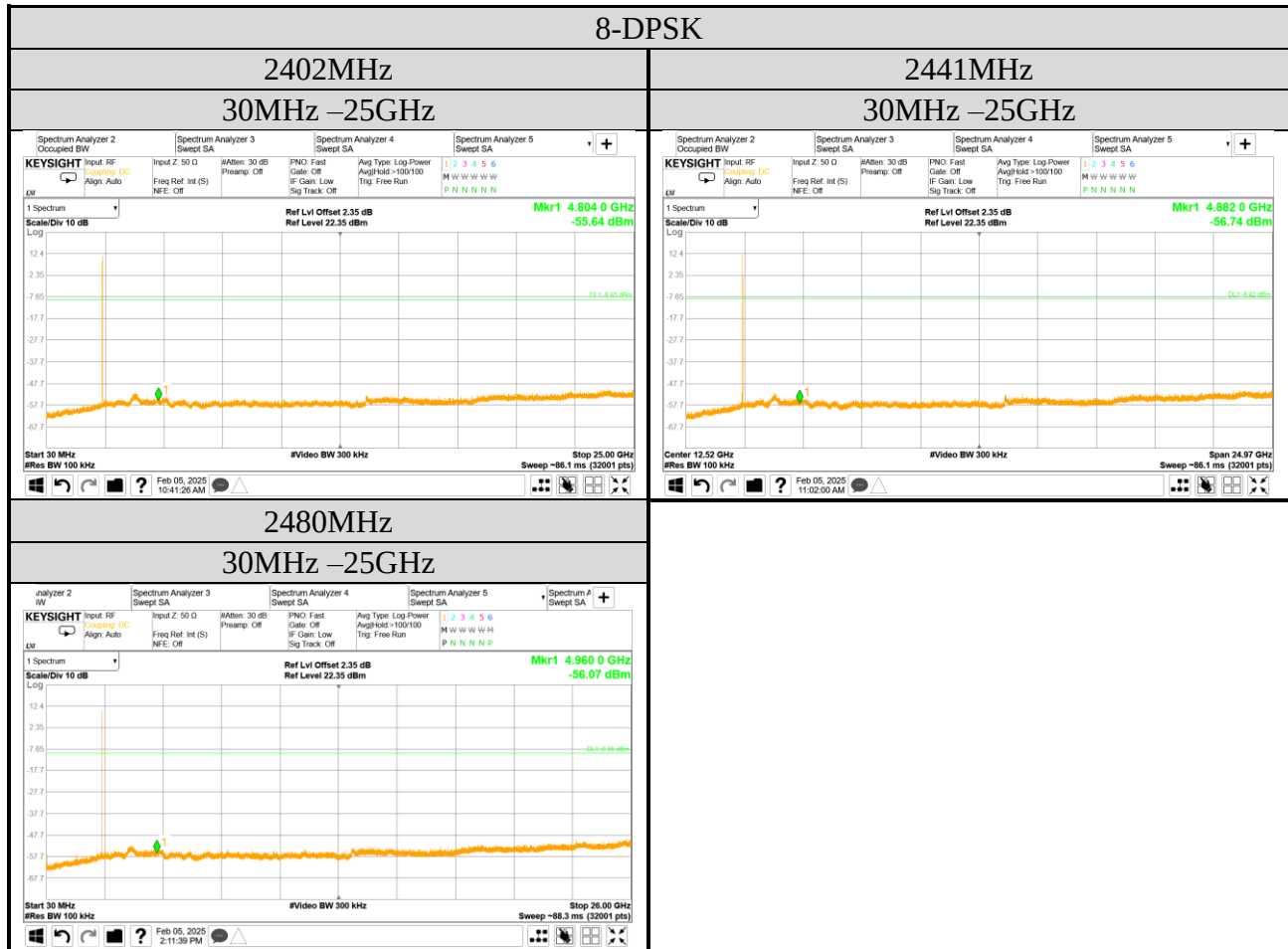
A.8.2 Spurious Emission



Note: All results have been included cable loss.

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Note: All results have been included cable loss.