

TABLE OF CONTENTS

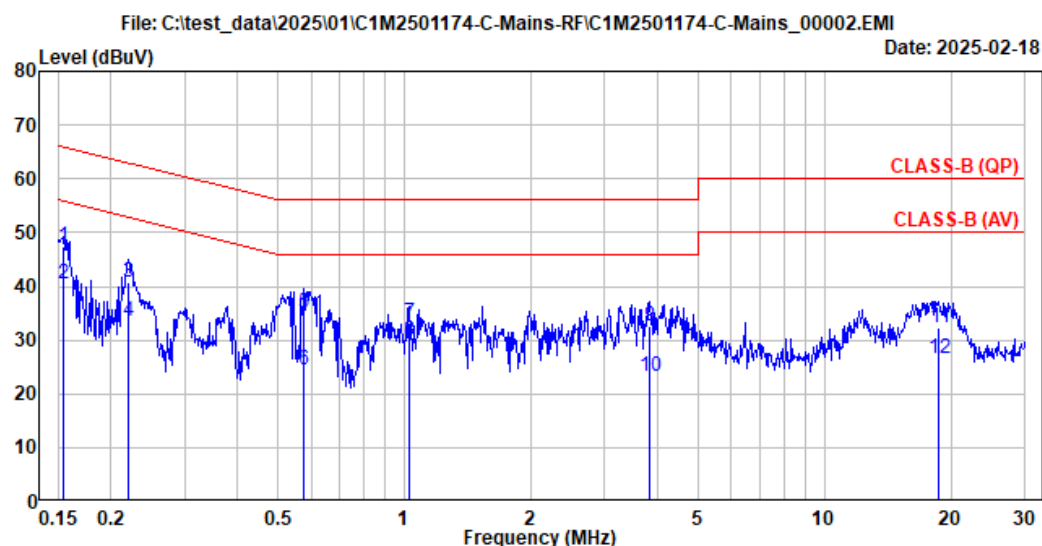
A.1 CONDUCTED EMISSION	2
A.2 RADIATED EMISSION	4
A.2.1 Emissions within Restricted Frequency Bands.....	4
A.2.2 Emissions outside the frequency band:.....	9
A.2.3 Emissions in Non-restricted Frequency Bands:.....	9
A.3 20dB BANDWIDTH	10
A.3.1 20dB Bandwidth Result.....	10
A.3.2 Measurement Plots	11
A.4 CARRIER FREQUENCY SEPARATION	12
A.5 TIME OF OCCUPANCY.....	14
A.5.1 Time of Occupancy	14
A.6 NUMBER OF HOPPING CHANNELS	24
A.7 MAXIMUM PEAK OUTPUT POWER	25
A.7.1 Maximum Peak Output Power.....	25
A.7.2 Average Output Power (Reporting only).....	25
A.8 EMISSION LIMITATIONS MEASUREMENT	26
A.8.1 Band Edge.....	26
A.8.2 Spurious Emission	28

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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 : 17Z90TR Engineer : Nick Du
Test Mode : OPERATING

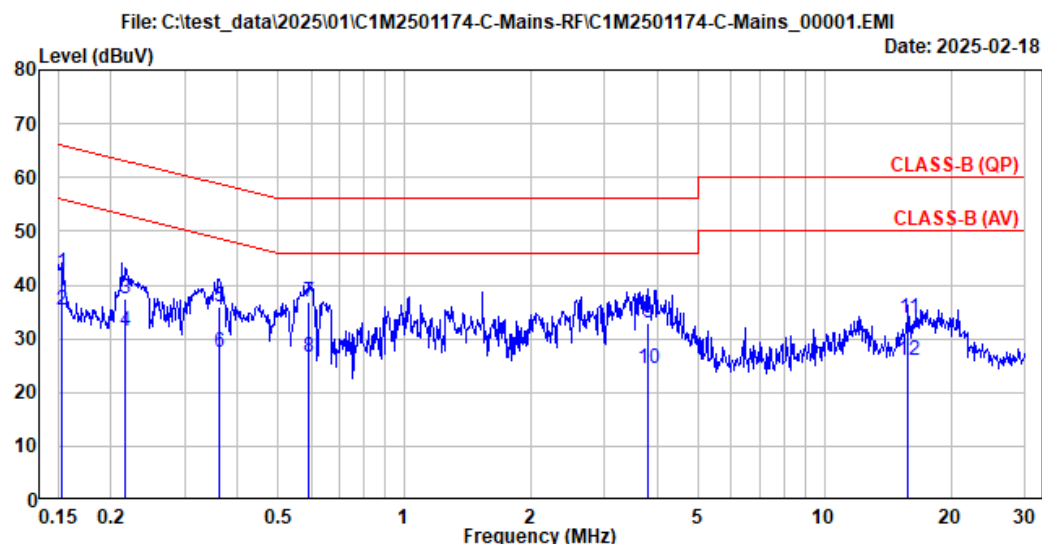
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.154	10.27	0.03	9.87	27.19	47.36	65.79	18.43	QP
2	0.154	10.27	0.03	9.87	20.40	40.57	55.79	15.22	Average
3	0.220	10.26	0.03	9.86	20.73	40.88	62.81	21.93	QP
4	0.220	10.26	0.03	9.86	13.36	33.51	52.81	19.30	Average
5	0.576	10.26	0.03	9.88	14.88	35.05	56.00	20.95	QP
6	0.576	10.26	0.03	9.88	4.14	24.31	46.00	21.69	Average
7	1.027	10.27	0.04	9.89	12.88	33.08	56.00	22.92	QP
8	1.027	10.27	0.04	9.89	9.55	29.75	46.00	16.25	Average
9	3.829	10.34	0.08	9.90	12.36	32.68	56.00	23.32	QP
10	3.829	10.34	0.08	9.90	2.89	23.21	46.00	22.79	Average
11	18.778	10.86	0.19	10.00	11.25	32.30	60.00	27.70	QP
12	18.778	10.86	0.19	10.00	5.55	26.60	50.00	23.40	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	: 17Z90TR	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	0.153	10.26	0.03	9.87	22.05	42.21	65.83	23.62	QP
2	0.153	10.26	0.03	9.87	15.28	35.44	55.83	20.39	Average
3	0.217	10.25	0.03	9.86	17.37	37.51	62.94	25.43	QP
4	0.217	10.25	0.03	9.86	11.32	31.46	52.94	21.48	Average
5	0.362	10.25	0.03	9.88	15.69	35.85	58.67	22.82	QP
6	0.362	10.25	0.03	9.88	7.30	27.46	48.67	21.21	Average
7	0.594	10.25	0.03	9.88	16.77	36.93	56.00	19.07	QP
8	0.594	10.25	0.03	9.88	6.47	26.63	46.00	19.37	Average
9	3.810	10.31	0.08	9.90	12.68	32.97	56.00	23.03	QP
10	3.810	10.31	0.08	9.90	4.26	24.55	46.00	21.45	Average
11	15.851	10.57	0.18	9.99	13.01	33.75	60.00	26.25	QP
12	15.851	10.57	0.18	9.99	5.10	25.84	50.00	24.16	Average

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

A.2 RADIATED EMISSION

Test Date	2025/02/07 ~ 18	Temp./Hum.	20 ~ 25°C/51 ~ 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	BT (8DPSK)	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.500	22.05	1.43	26.46	31.67	28.69	40.00	11.31	Peak
195.000	14.88	3.50	25.81	35.70	28.28	43.50	15.22	Peak
445.500	21.93	6.20	26.73	38.66	40.06	46.00	5.94	Peak
707.500	24.56	7.35	27.39	34.15	38.66	46.00	7.34	Peak
742.500	24.75	7.53	27.32	38.23	43.19	46.00	2.81	Peak
976.500	26.81	8.88	26.77	27.31	36.23	54.00	17.77	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	38.73	37.00	40.00	3.00	Peak
90.000	14.75	2.37	26.30	39.63	30.46	43.50	13.04	Peak
445.500	21.93	6.20	26.73	35.42	36.81	46.00	9.19	Peak
594.000	24.00	6.80	27.36	30.63	34.07	46.00	11.93	Peak
742.500	24.75	7.53	27.32	35.68	40.63	46.00	5.37	Peak
982.000	26.85	8.91	26.75	26.77	35.78	54.00	18.22	Peak

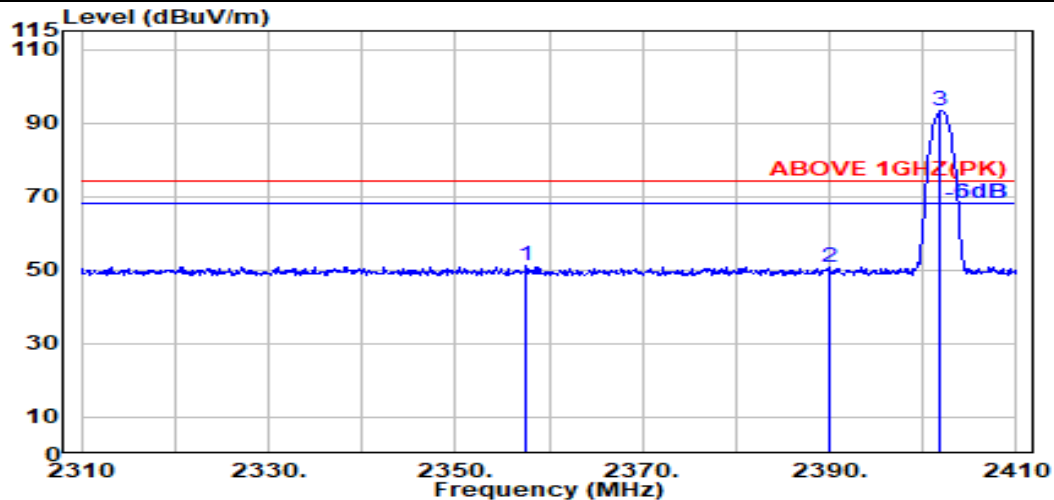
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

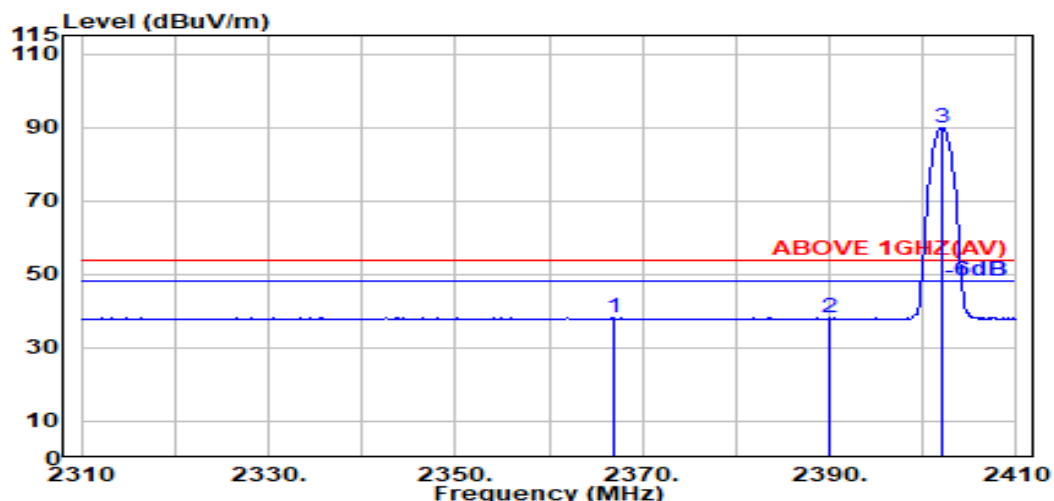
Band Edge:

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
2357.500	28.27	5.68	39.88	57.00	51.07	74.00	22.93	Peak
2390.000	28.14	5.72	39.88	56.63	50.61	74.00	23.39	Peak
@ 2401.900	28.11	5.74	39.88	99.51	93.48	---	---	Peak

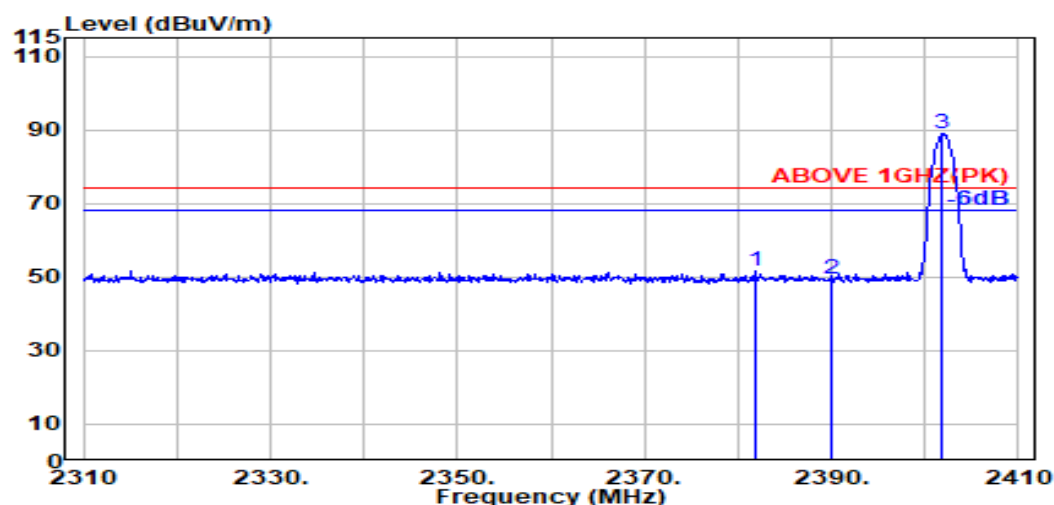


Antenna at Horizontal Polarization

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
2366.900	28.23	5.69	39.88	44.10	38.15	54.00	15.85	Average
2390.000	28.14	5.72	39.88	44.03	38.02	54.00	15.98	Average
@ 2402.000	28.11	5.74	39.88	96.05	90.02	---	---	Average

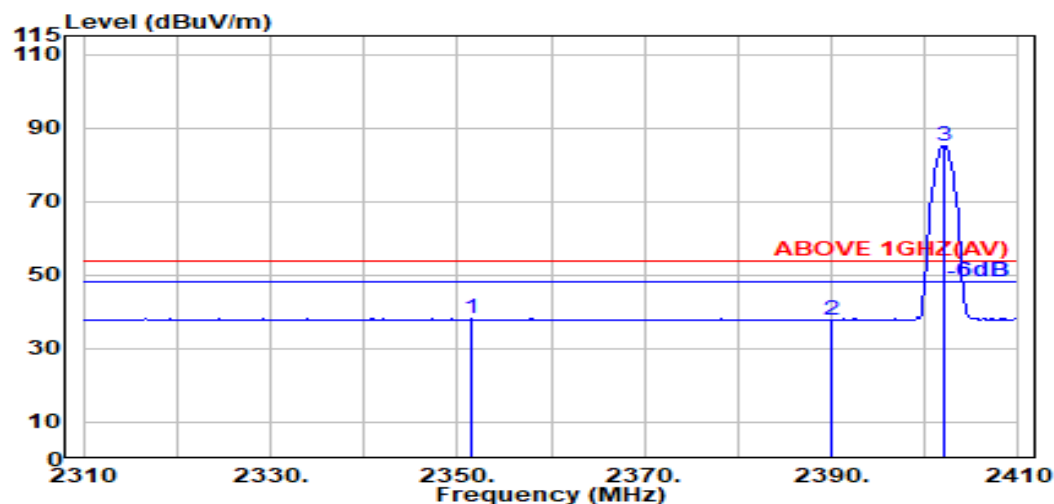
Remark: The "@" means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2381.800	28.17	5.71	39.88	57.69	51.69	74.00	22.31	Peak
2390.000	28.14	5.72	39.88	55.43	49.41	74.00	24.59	Peak
@ 2401.900	28.11	5.74	39.88	94.84	88.81	---	---	Peak



Antenna at Vertical Polarization

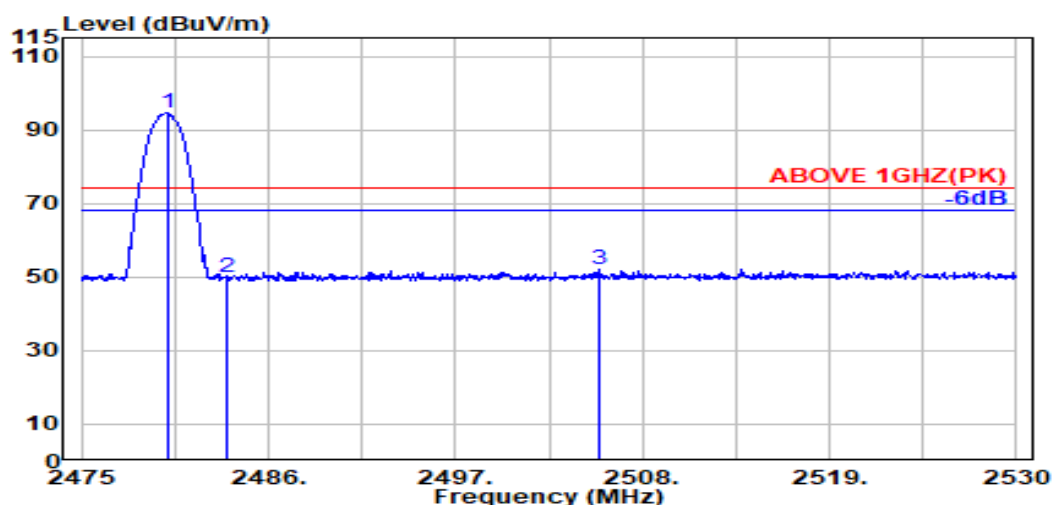
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2351.500	28.29	5.67	39.88	44.00	38.08	54.00	15.92	Average
2390.000	28.14	5.72	39.88	43.85	37.83	54.00	16.17	Average
@ 2402.000	28.11	5.74	39.88	91.17	85.13	---	---	Average

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

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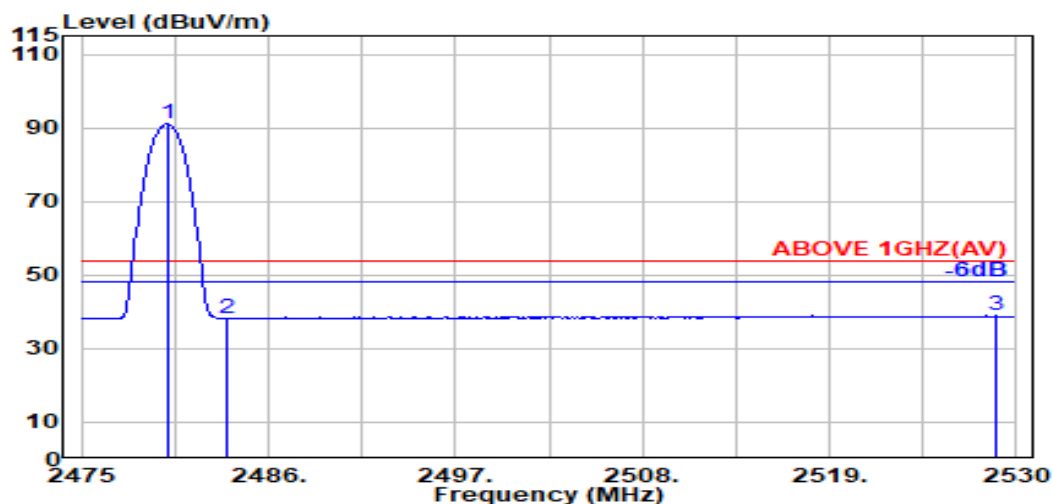
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.83	39.87	100.19	94.50	---	---	Peak
2483.500	28.37	5.83	39.87	55.51	49.84	74.00	24.16	Peak
2505.500	28.43	5.86	39.87	57.64	52.06	74.00	21.94	Peak



Antenna at Horizontal Polarization

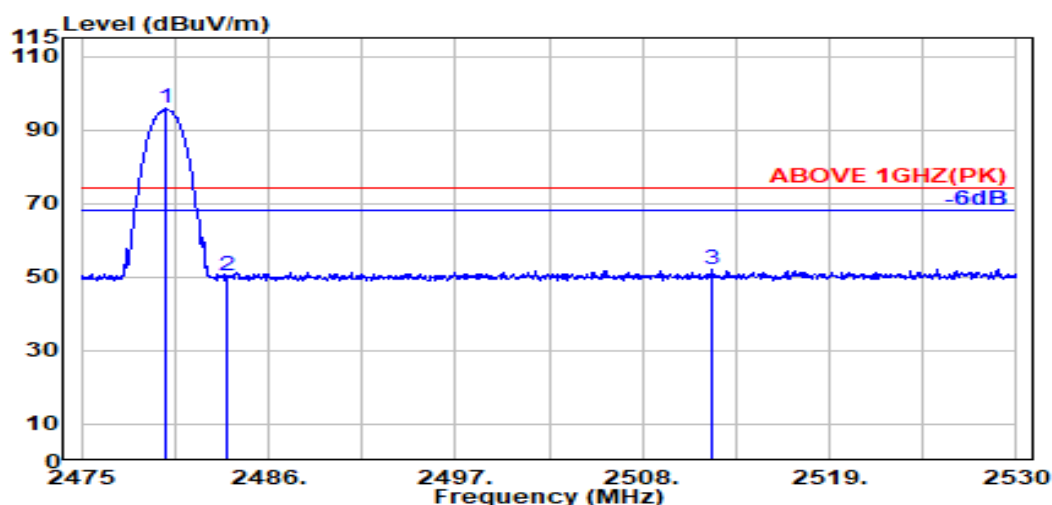
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.83	39.87	96.73	91.05	---	---	Average
2483.500	28.37	5.83	39.87	43.92	38.25	54.00	15.75	Average
2528.850	28.57	5.89	39.88	44.33	38.91	54.00	15.09	Average

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

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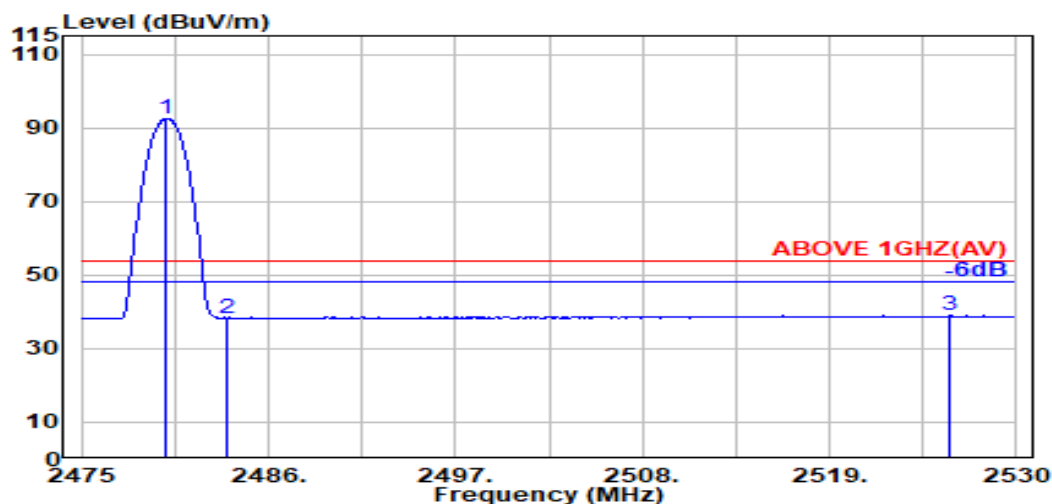
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.950	28.36	5.83	39.87	101.54	95.86	---	---	Peak
2483.500	28.37	5.83	39.87	55.92	50.25	74.00	23.75	Peak
2512.150	28.47	5.86	39.87	57.82	52.29	74.00	21.71	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	28.36	5.83	39.87	98.30	92.62	---	---	Average
2483.500	28.37	5.83	39.87	43.88	38.20	54.00	15.80	Average
2526.100	28.56	5.88	39.88	44.33	38.89	54.00	15.11	Average

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

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A.2.2 Emissions outside the frequency band:

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

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	39.76	41.50	54.00	12.50	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	39.84	41.58	54.00	12.42	Peak

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	38.38	40.44	54.00	13.56	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	38.28	40.35	54.00	13.65	Peak

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	40.30	42.51	54.00	11.49	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	37.92	40.13	54.00	13.87	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.	18~20°C / 58~60%
Cable Loss	2.35 dB	Tested By	Ryan Chiang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 20dB Bandwidth Result

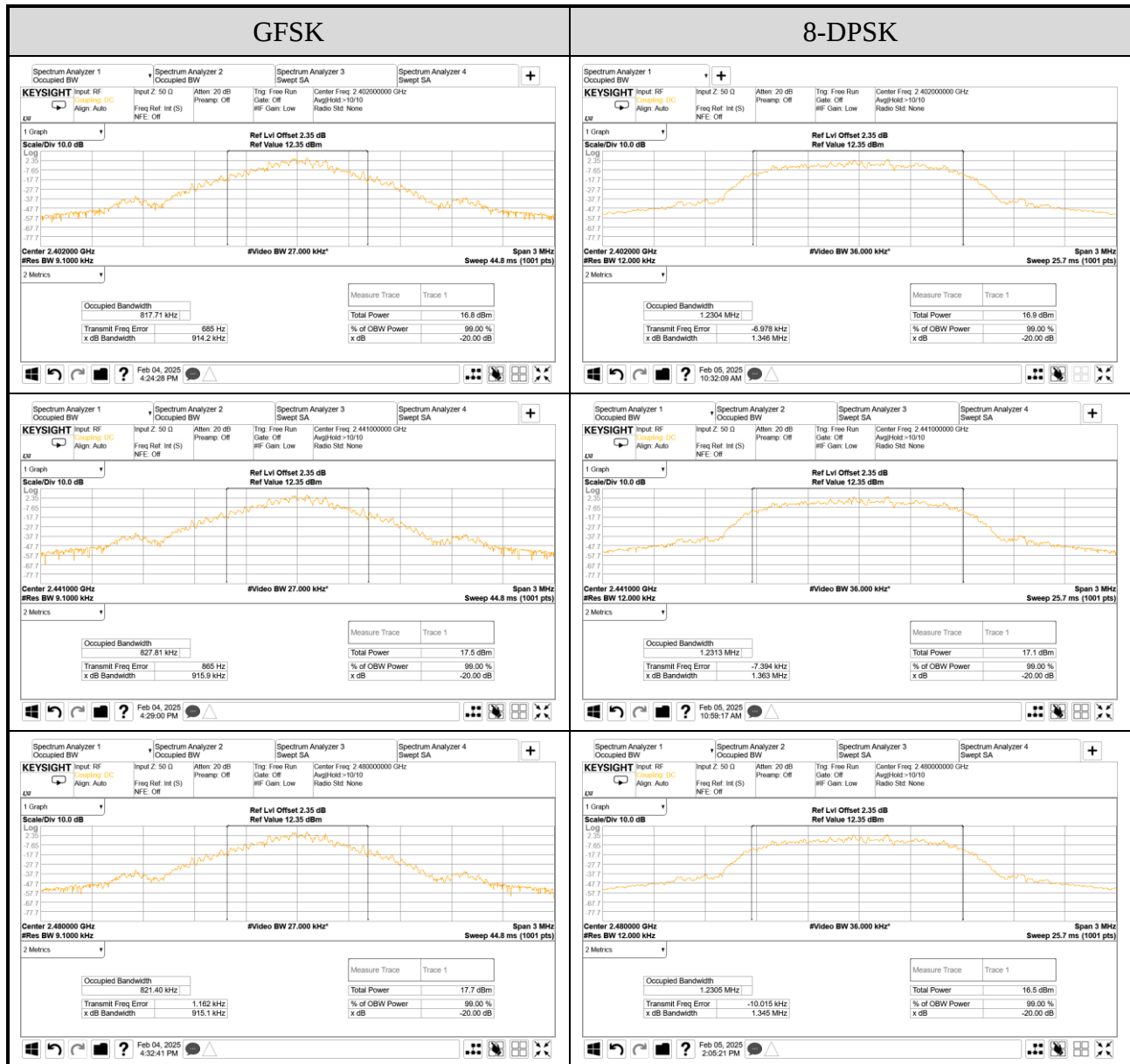
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9142	0.81771	0.609
	2441	0.9159	0.82781	0.611
	2480	0.9151	0.82140	0.610
8-DPSK	2402	0.1346	1.2304	0.090
	2441	0.1363	1.2313	0.091
	2480	0.1345	1.2305	0.090

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

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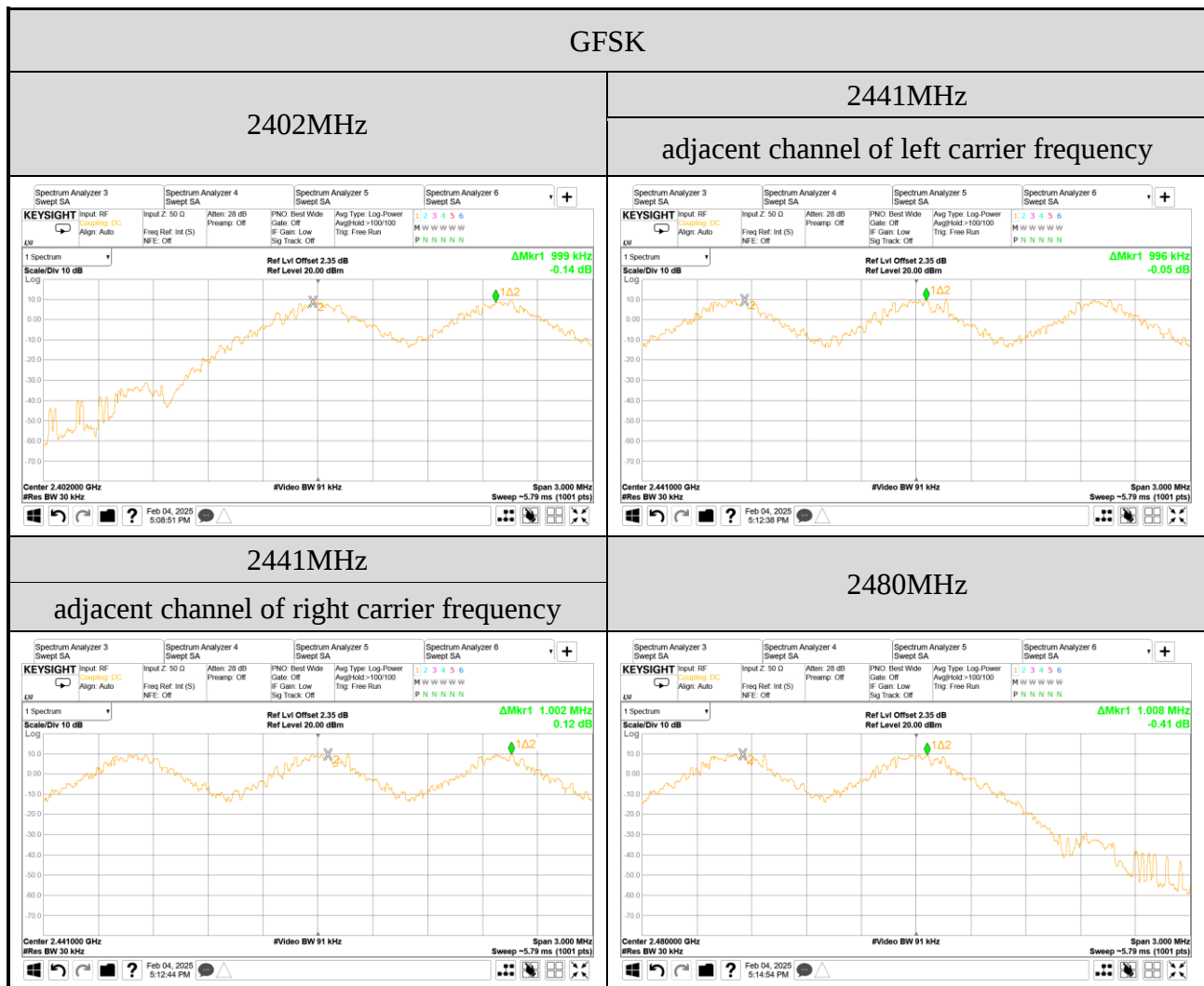
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A.3.2 Measurement Plots



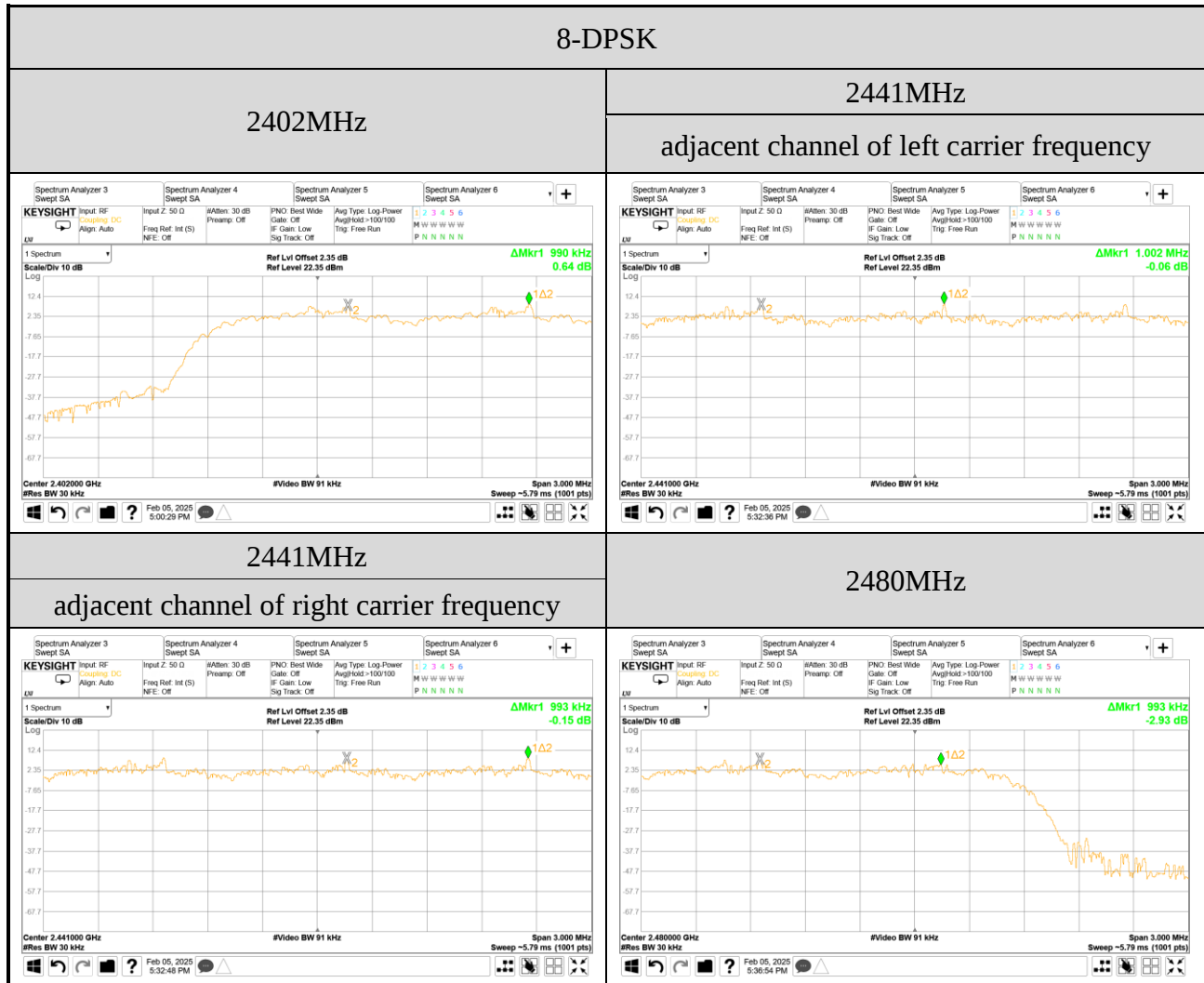
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2025/02/04 ~ 05	Temp./Hum.	18~20°C / 58~60%
Cable Loss	2.35 dB	Tested By	Ryan Chiang
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.	18~20°C / 58~60%
Cable Loss	2.35 dB	Tested By	Ryan Chiang
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	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* 0.370 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 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	0.370	116.920	<400
		DH3	5	1.620	255.960	<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* 0.370 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* 1.620 ms= 255.960 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	0.370	116.920	<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* **0.370** 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)

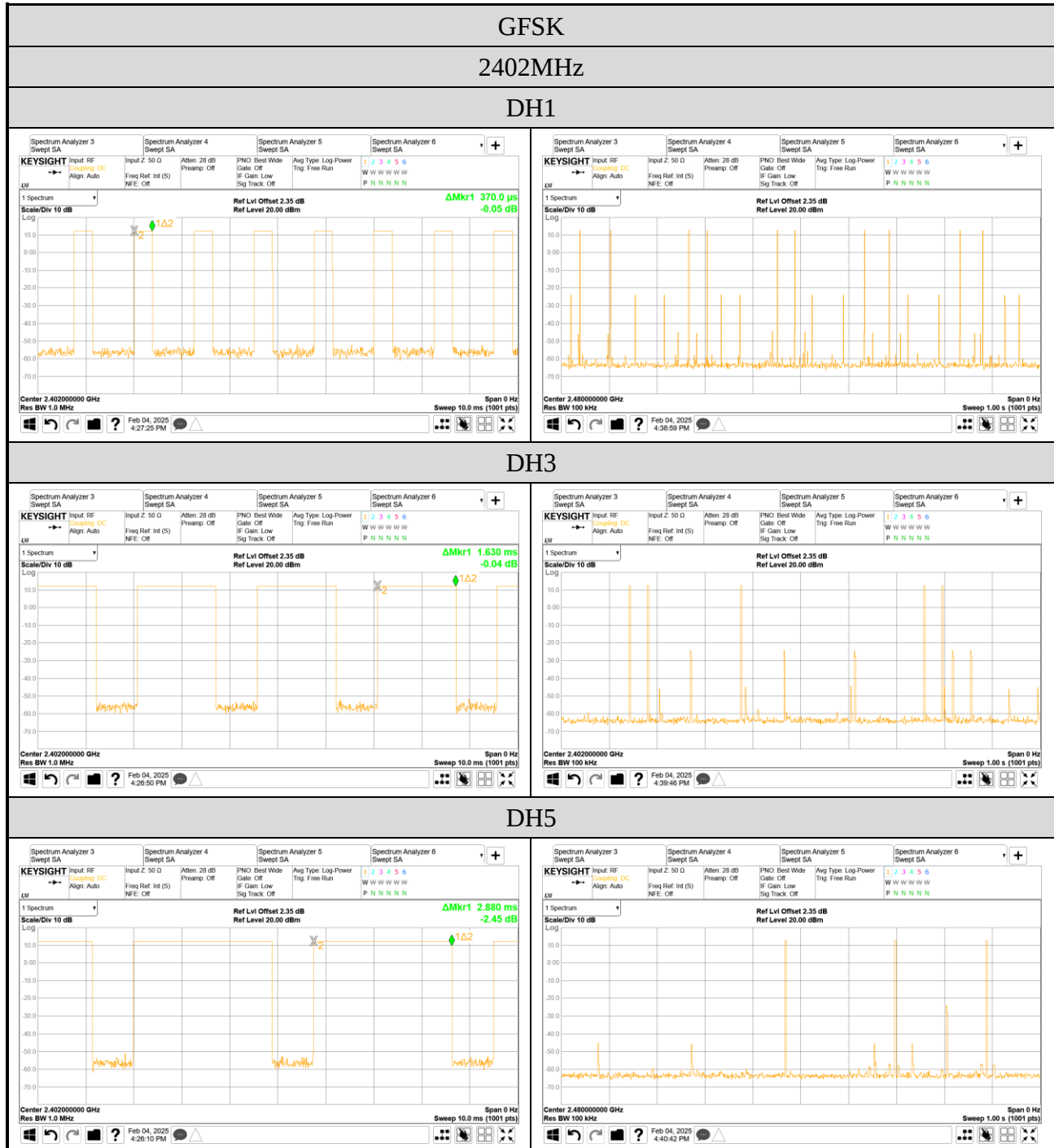
DH5 Mode

For each second of **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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● Measurement Plots



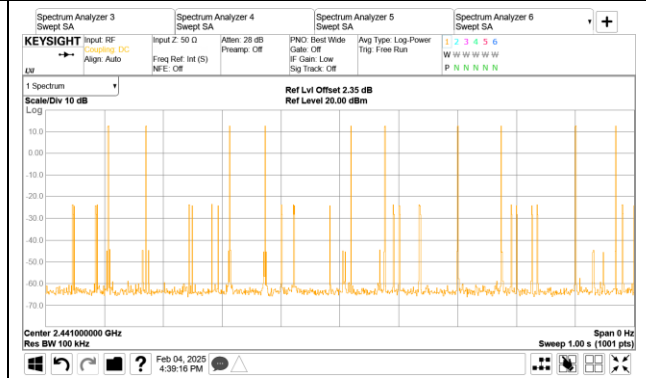
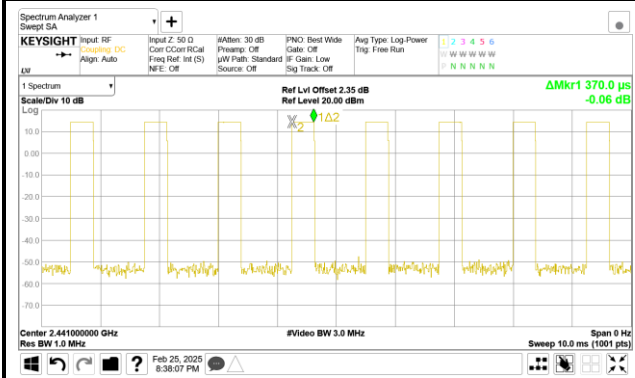
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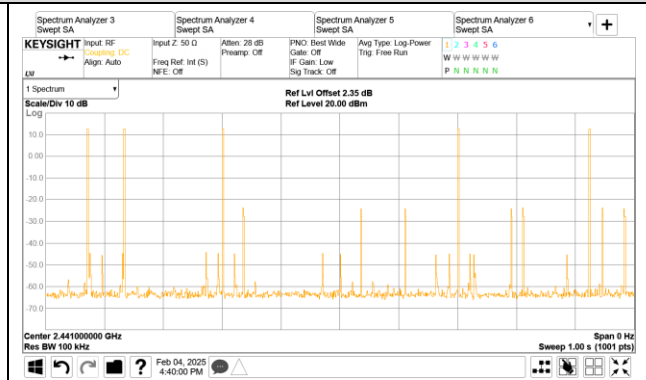
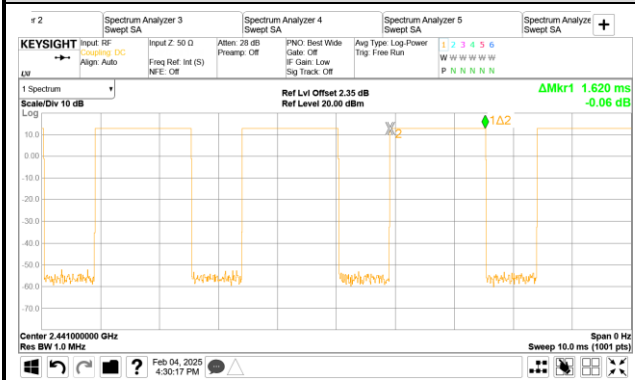
GFSK

2441MHz

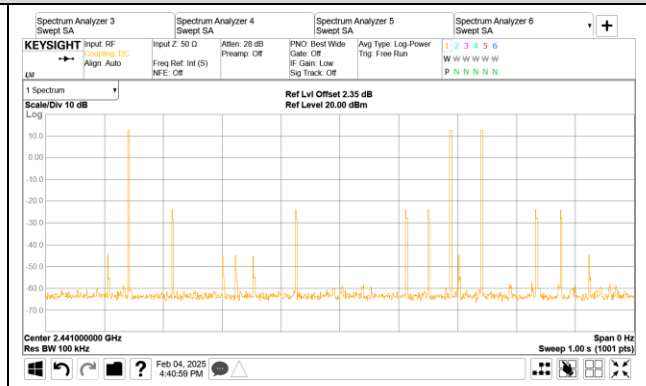
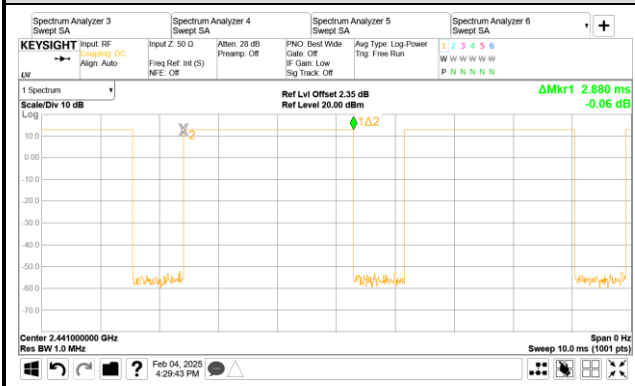
DH1



DH3



DH5



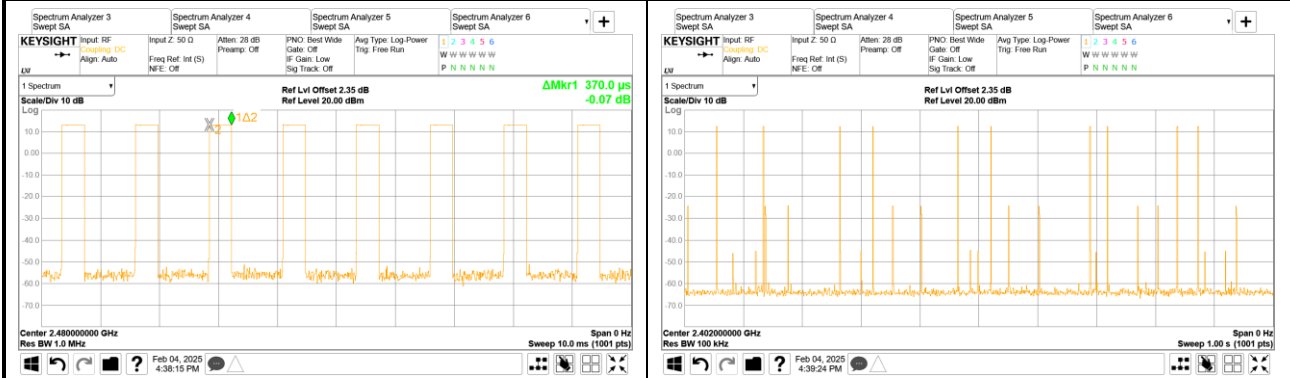
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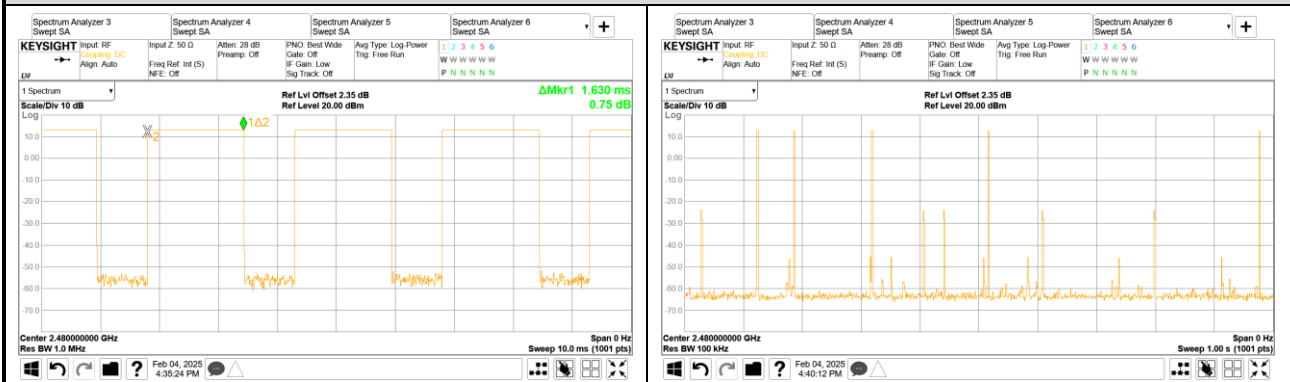
GFSK

2480MHz

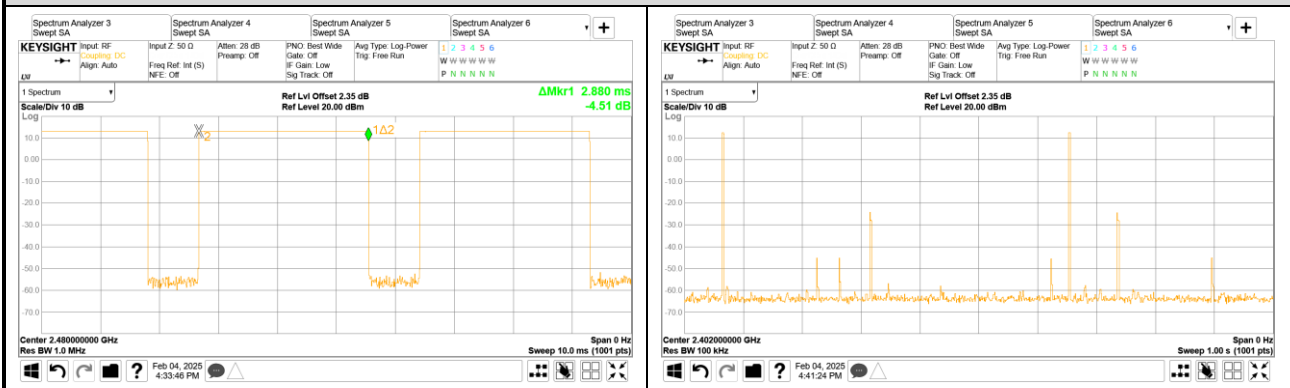
DH1



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	5	1.630	257.540	<400
		3DH5	3	2.880	273.024	<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 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)
8-DPSK	2441	3DH1	10	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	3	2.880	273.024	<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 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)
8-DPSK	2480	3DH1	10	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	3	2.880	273.024	<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

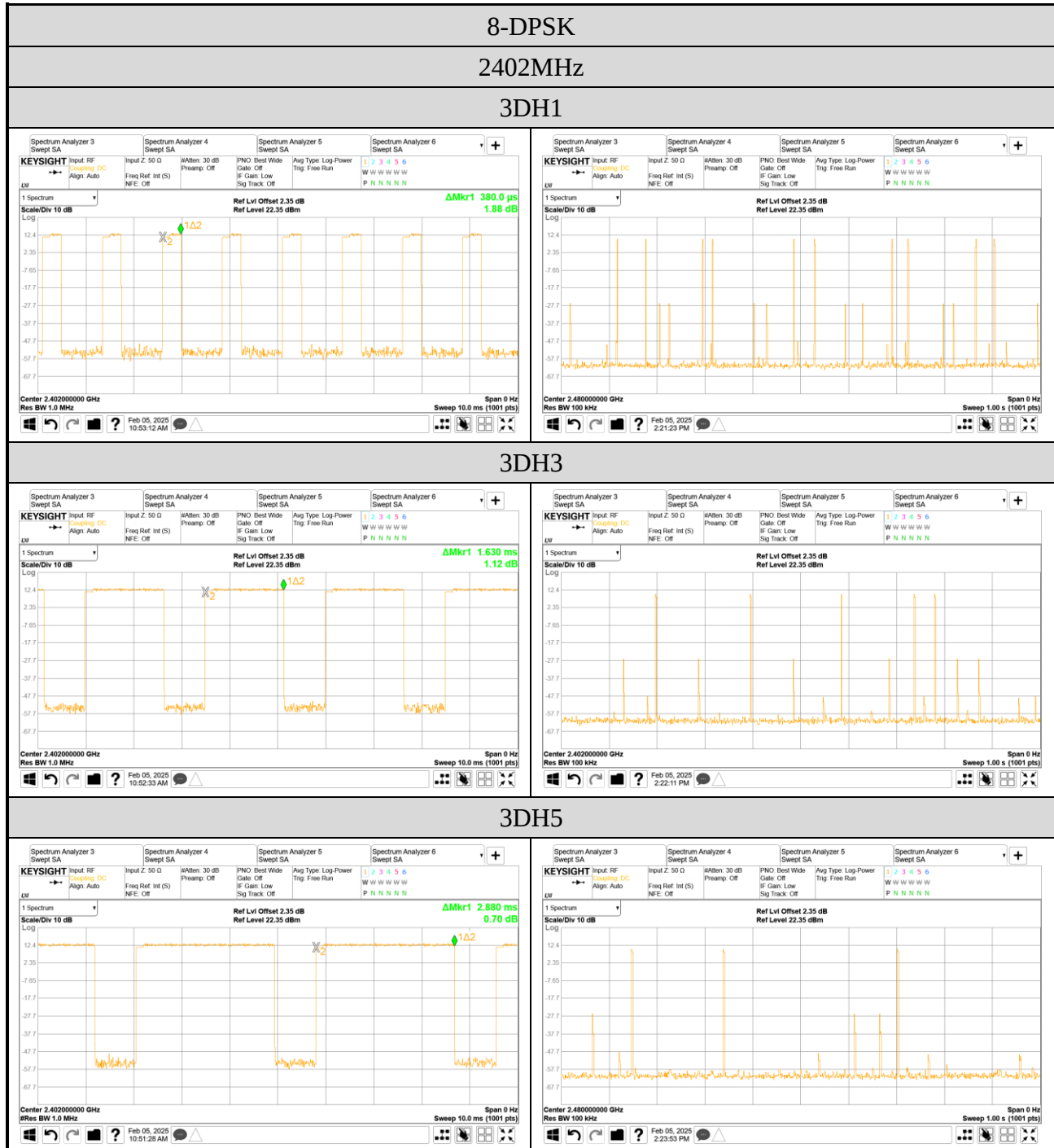
For each second of **3** transmission appearance, the longest time of occupancy is

3 transmission* **31.6** seconds* **2.880** ms= **273.024** ms (<400ms)

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● Measurement Plots



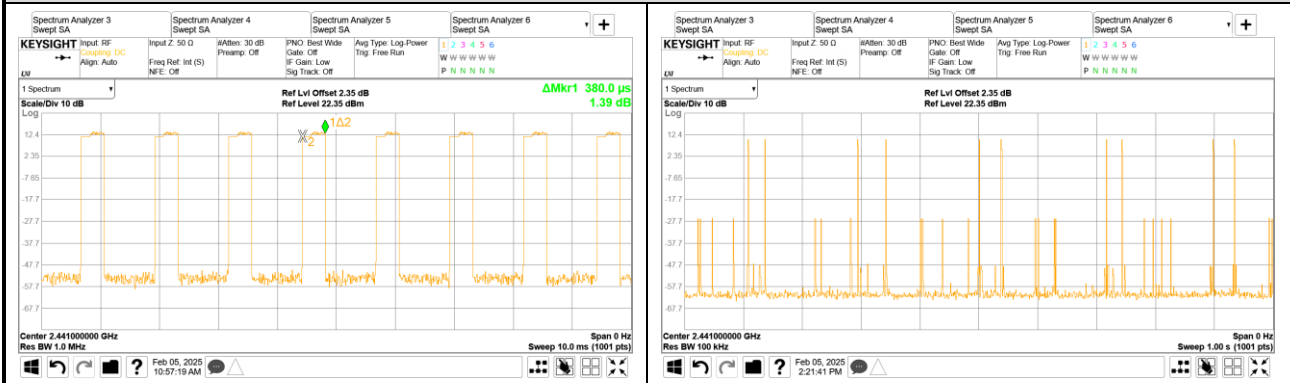
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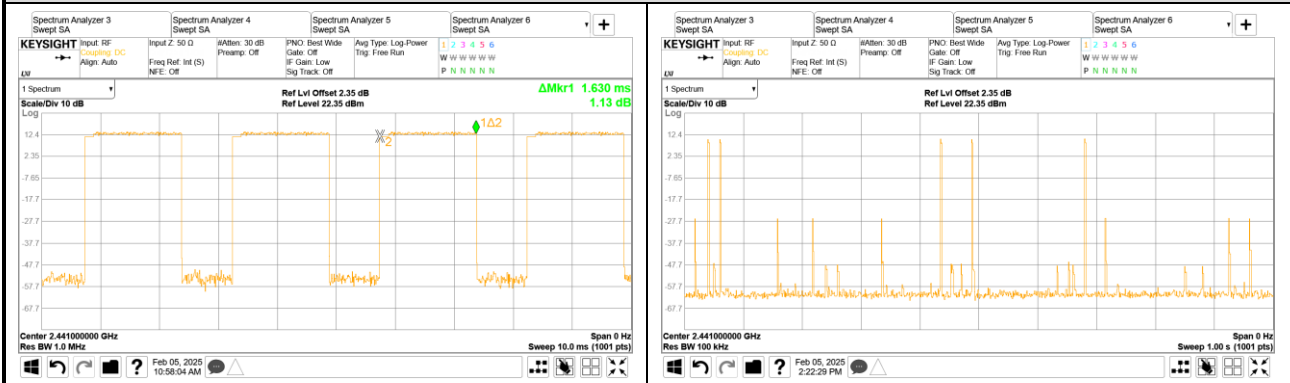
8-DPSK

2441MHz

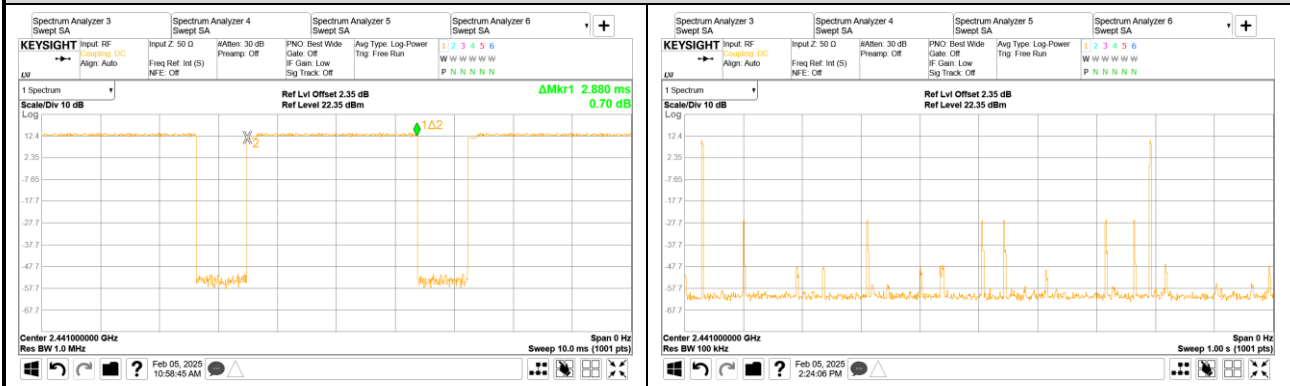
3DH1



3DH3



3DH5



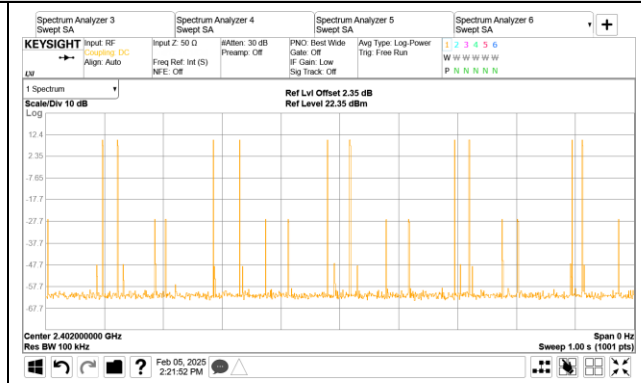
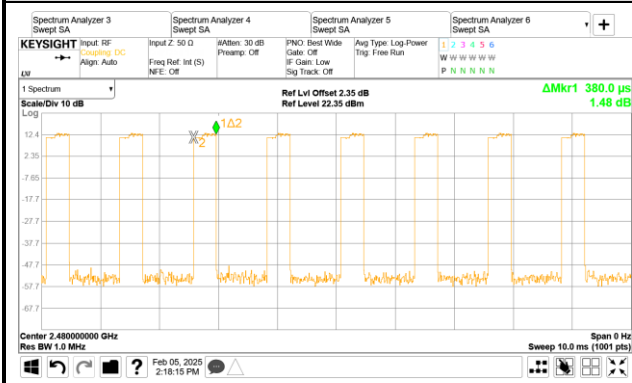
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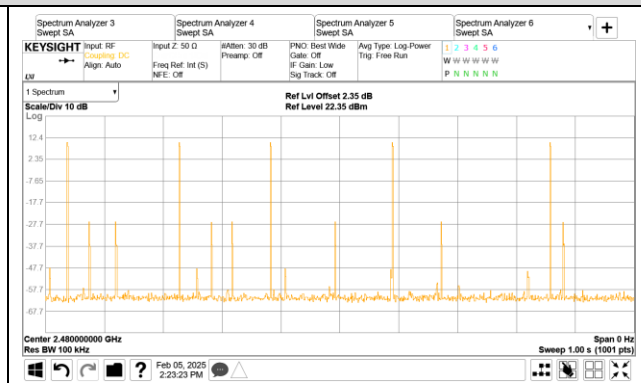
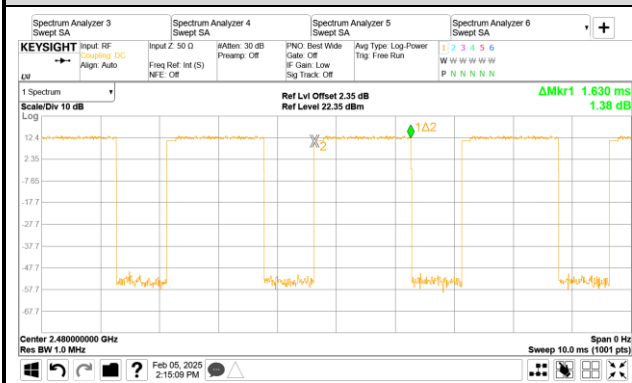
8-DPSK

2480MHz

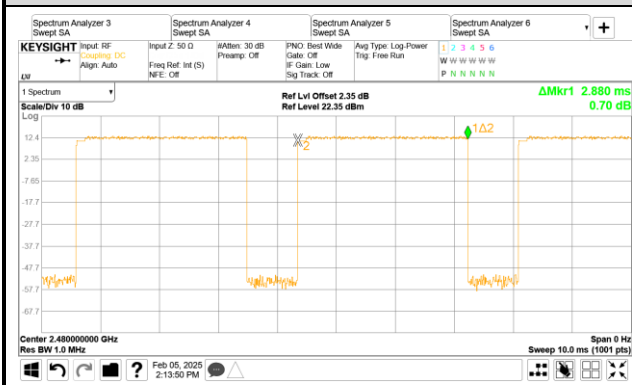
3DH1



3DH3



3DH5

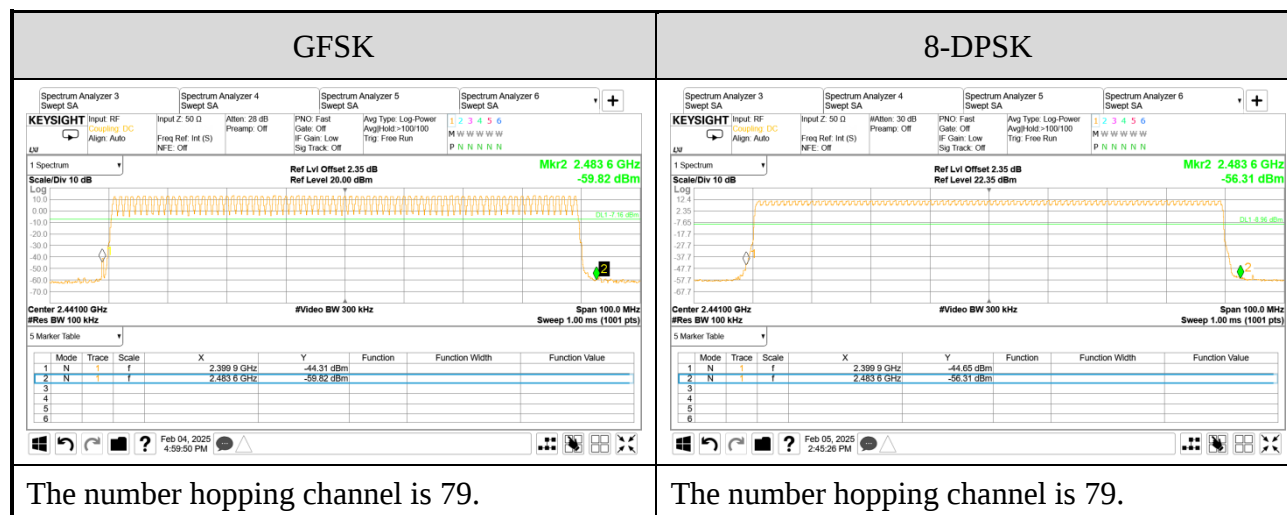


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2025/02/04 ~ 05	Temp./Hum.	18~20°C /58~60%
Cable Loss	2.35 dB	Tested By	Ryan Chiang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2025/02/05 ~ 13	Temp./Hum.	18~20°C /58~62%
Cable Loss	2.35 dB	Tested By	Ryan Chiang
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	12.24	0.017	21dBm (0.125W)
	2441	13.11	0.020	
	2480	12.83	0.019	
8-DPSK	2402	13.49	0.022	
	2441	13.89	0.024	
	2480	13.18	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	11.07	1.135	11.07	0.013	21dBm (0.125W)
	2441	12.00	1.135	12.00	0.016	
	2480	11.69	1.135	11.69	0.015	
8-DPSK	2402	10.37	1.141	11.51	0.014	
	2441	10.79	1.141	11.93	0.016	
	2480	10.23	1.141	11.37	0.014	

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A.8 EMISSION LIMITATIONS MEASUREMENT

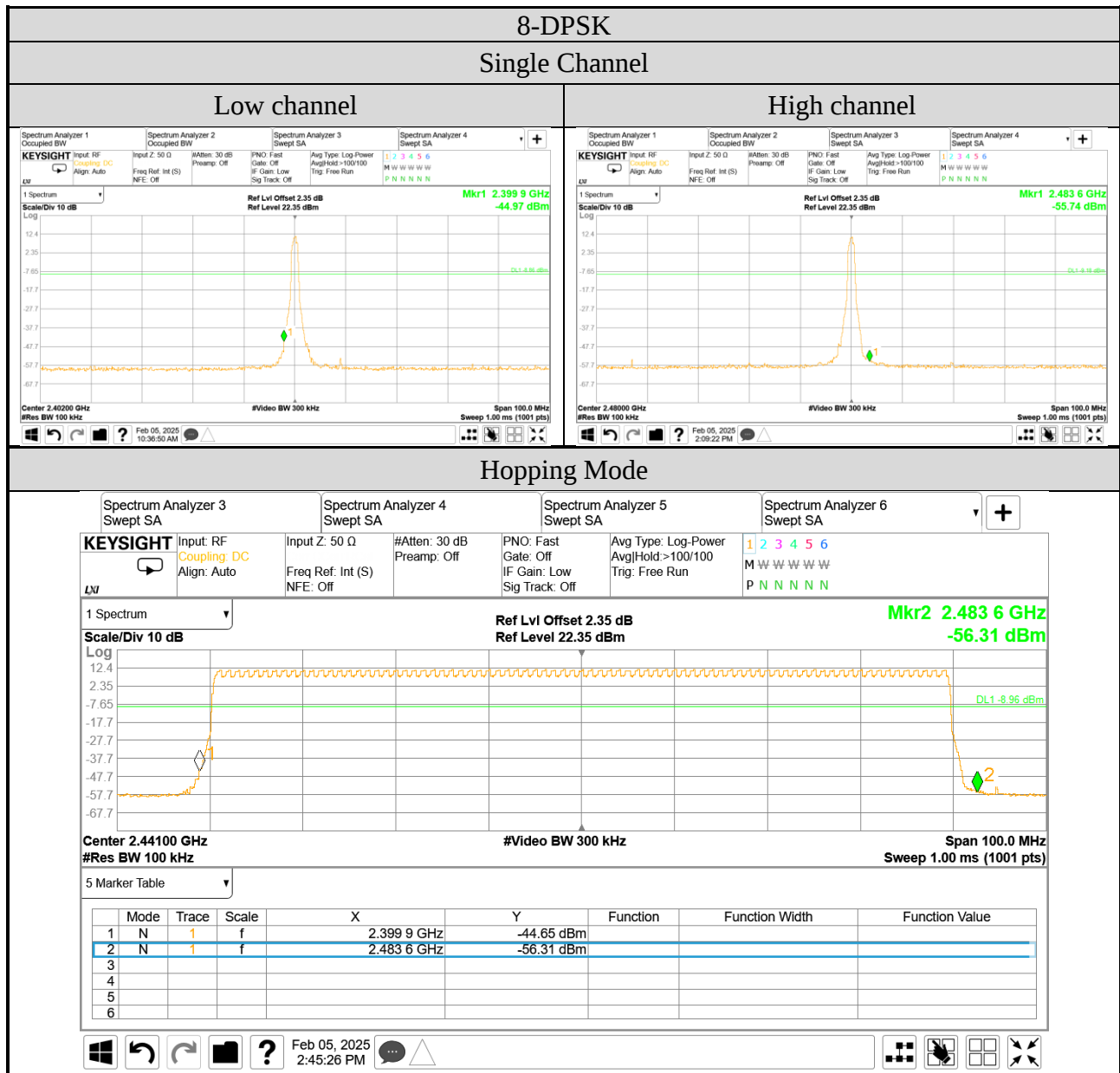
Test Date	2025/02/04 ~ 05	Temp./Hum.	18~20°C /58~60%
Cable Loss	2.35 dB	Tested By	Ryan Chiang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge



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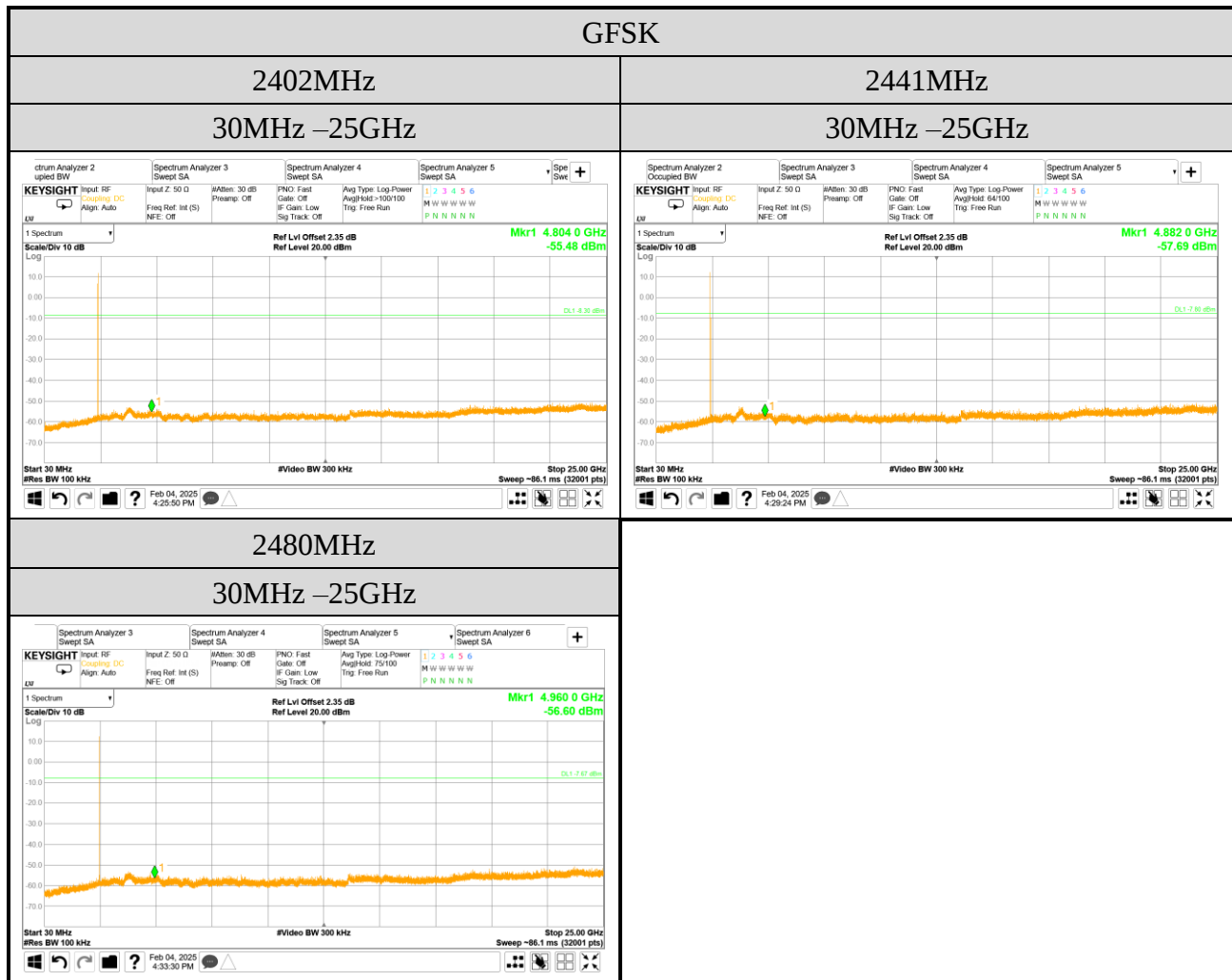
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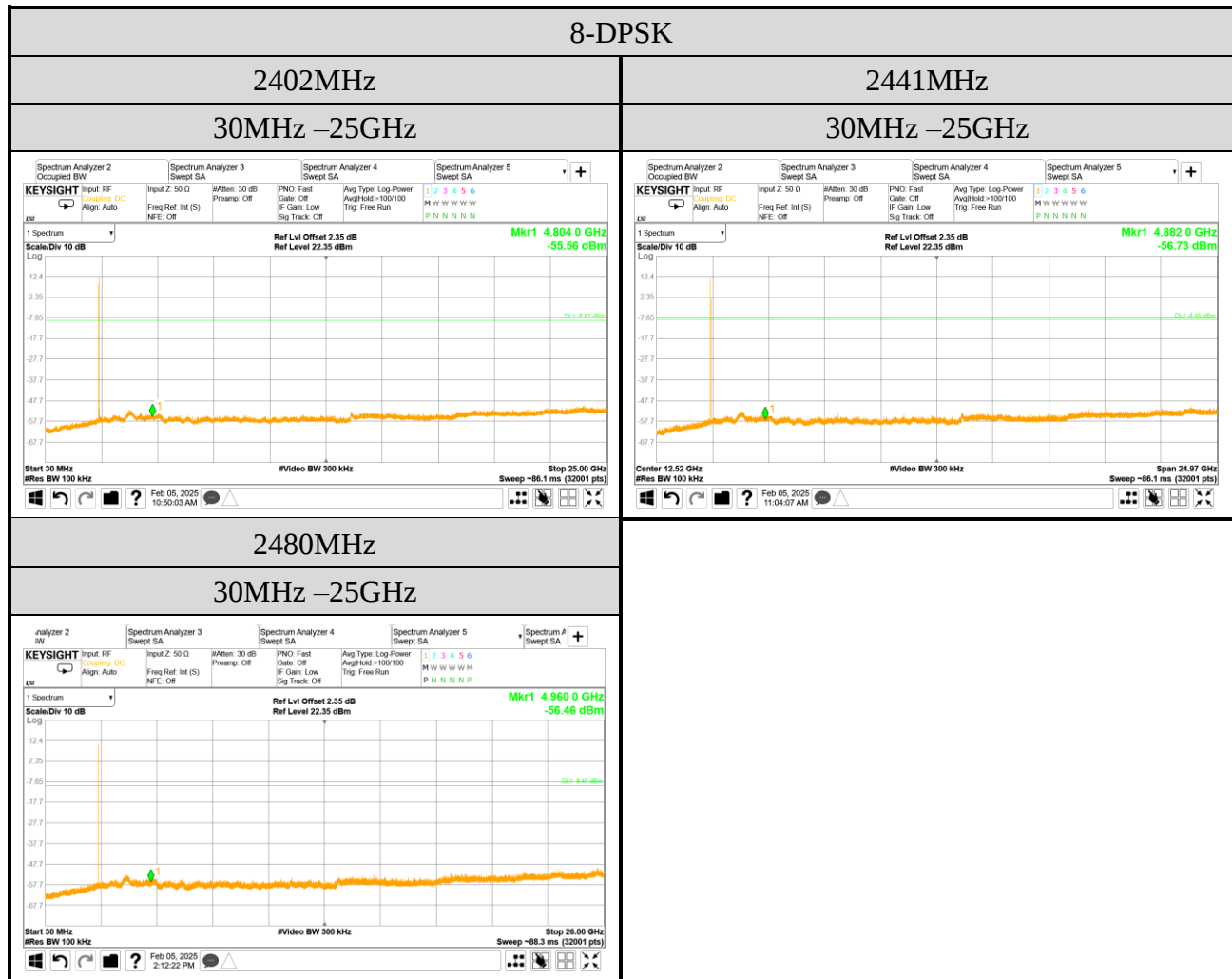
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A.8.2 Spurious Emission



Note: All results have been included cable loss.



Note: All results have been included cable loss.