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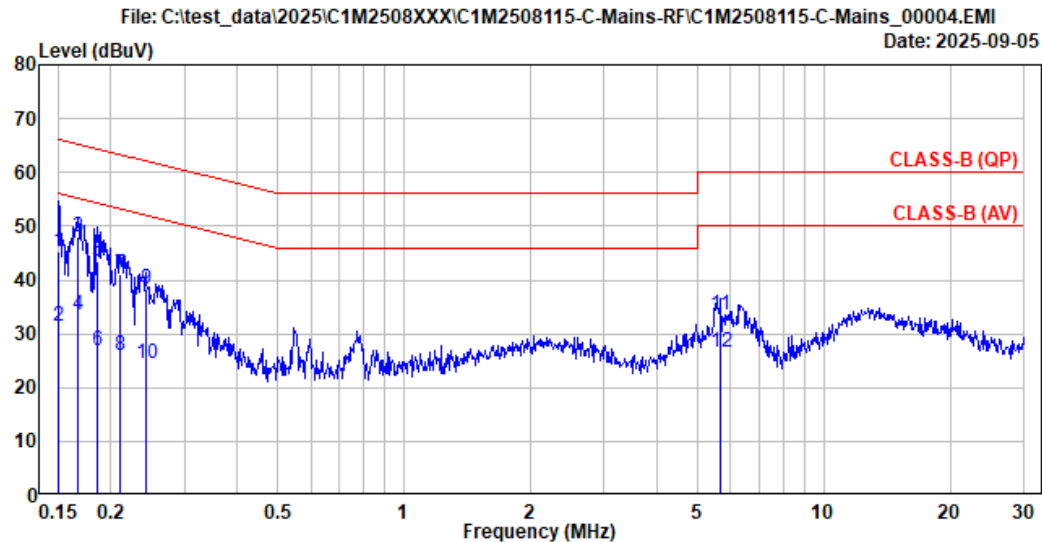
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A.1 CONDUCTED EMISSION

Test Date	2025/09/05	Temp./Hum.	25°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B (QP)
Environment : 25°C/52%
EUT Model : 16Z90U
Test Mode : Operating

Data No. : 4
Phase : Neutral
Test Rating : 120Vac/60Hz
Engineer : Nick Du

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	10.34	0.03	9.85	25.11	45.33	65.96	20.63	QP
2	0.151	10.34	0.03	9.85	11.18	31.40	55.96	24.56	Average
3	0.167	10.33	0.03	9.85	27.72	47.93	65.09	17.16	QP
4	0.167	10.33	0.03	9.85	13.31	33.52	55.09	21.57	Average
5	0.186	10.33	0.03	9.85	23.30	43.51	64.22	20.71	QP
6	0.186	10.33	0.03	9.85	6.53	26.74	54.22	27.48	Average
7	0.211	10.32	0.03	9.85	20.90	41.10	63.18	22.08	QP
8	0.211	10.32	0.03	9.85	5.62	25.82	53.18	27.36	Average
9	0.242	10.32	0.03	9.85	18.02	38.22	62.03	23.81	QP
10	0.242	10.32	0.03	9.85	4.24	24.44	52.03	27.59	Average
11	5.677	10.49	0.10	9.87	13.07	33.53	60.00	26.47	QP
12	5.677	10.49	0.10	9.87	6.11	26.57	50.00	23.43	Average

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

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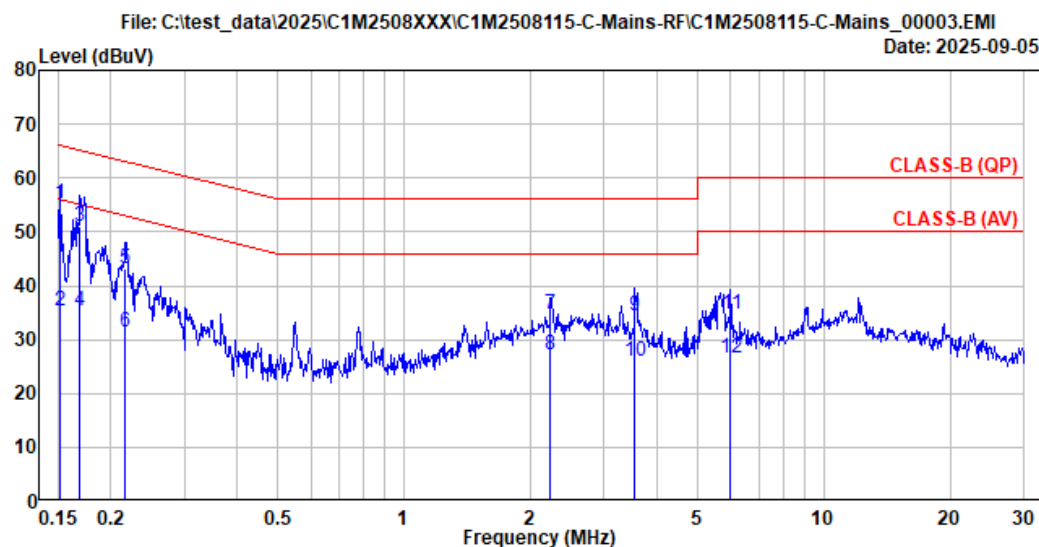
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Test Date	2025/09/05	Temp./Hum.	25°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



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	: CLASS-B (QP)	Phase	: Line
Environment	: 25°C/52%	Test Rating	: 120Vac/60Hz
EUT Model	: 16Z90U	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	0.152	10.34	0.03	9.85	35.12	55.34	65.92	10.58	QP
2	0.152	10.34	0.03	9.85	15.16	35.38	55.92	20.54	Average
3	0.169	10.34	0.03	9.85	30.75	50.97	65.01	14.04	QP
4	0.169	10.34	0.03	9.85	15.17	35.39	55.01	19.62	Average
5	0.217	10.33	0.03	9.85	22.82	43.03	62.94	19.91	QP
6	0.217	10.33	0.03	9.85	11.32	31.53	52.94	21.41	Average
7	2.235	10.34	0.06	9.86	14.40	34.66	56.00	21.34	QP
8	2.235	10.34	0.06	9.86	6.99	27.25	46.00	18.75	Average
9	3.553	10.36	0.08	9.86	14.09	34.39	56.00	21.61	QP
10	3.553	10.36	0.08	9.86	5.62	25.92	46.00	20.08	Average
11	5.997	10.44	0.10	9.87	14.29	34.70	60.00	25.30	QP
12	5.997	10.44	0.10	9.87	6.27	26.68	50.00	23.32	Average

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

A.2 RADIATED EMISSION

Test Date	2025/08/26~09/09	Temp./Hum.	24°C/53~55%
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 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
65.000	11.97	2.10	26.38	48.73	36.42	40.00	3.58	Peak
148.500	16.57	3.17	26.00	40.69	34.43	43.50	9.07	Peak
371.500	20.83	5.71	26.20	36.55	36.89	46.00	9.11	Peak
456.500	22.42	6.58	26.81	35.40	37.59	46.00	8.41	Peak
594.000	24.23	7.12	27.36	34.16	38.14	46.00	7.86	Peak
746.000	24.61	7.88	27.31	31.18	36.37	46.00	9.63	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
64.000	11.97	2.09	26.39	48.43	36.10	40.00	3.90	Peak
371.500	20.83	5.71	26.20	35.16	35.50	46.00	10.50	Peak
456.500	22.42	6.58	26.81	34.90	37.09	46.00	8.91	Peak
594.000	24.23	7.12	27.36	33.48	37.46	46.00	8.54	Peak
846.500	25.52	8.47	27.10	28.46	35.34	46.00	10.66	Peak
966.500	26.89	9.20	26.80	27.73	37.02	54.00	16.98	Peak

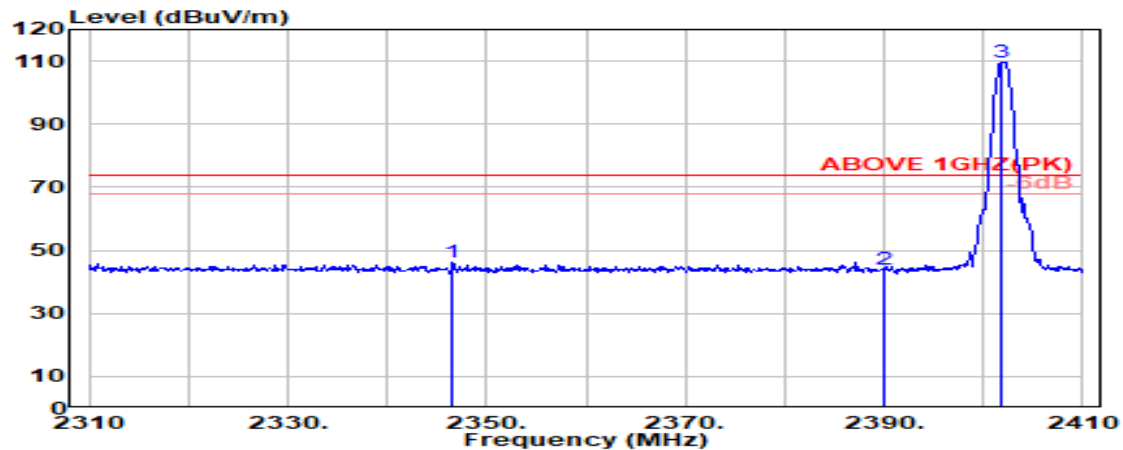
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

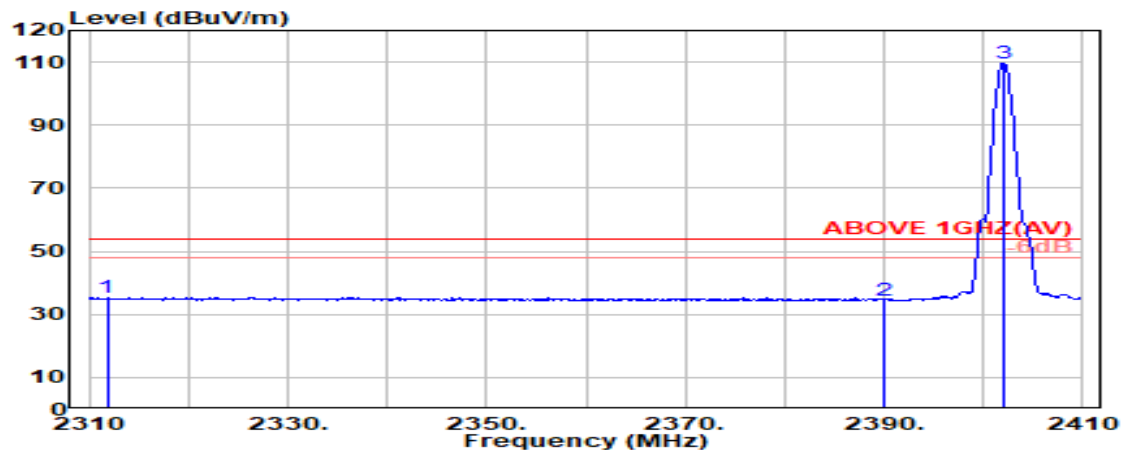
Band Edge:

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2346.600	28.19	5.64	39.88	52.13	46.07	74.00	27.93	Peak
2390.000	28.20	5.70	39.88	49.95	43.97	74.00	30.03	Peak
@ 2401.800	28.20	5.72	39.88	115.75	109.80	---	---	Peak



Antenna at Horizontal Polarization

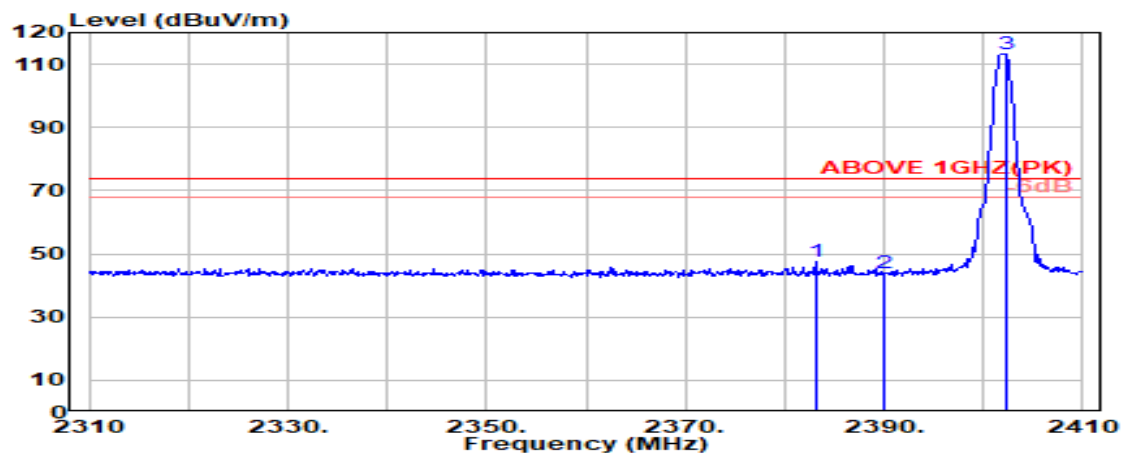
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2311.800	28.05	5.59	39.88	41.72	35.48	54.00	18.52	Average
2390.000	28.20	5.70	39.88	40.51	34.53	54.00	19.47	Average
@ 2402.000	28.20	5.72	39.88	115.58	109.63	---	---	Average

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

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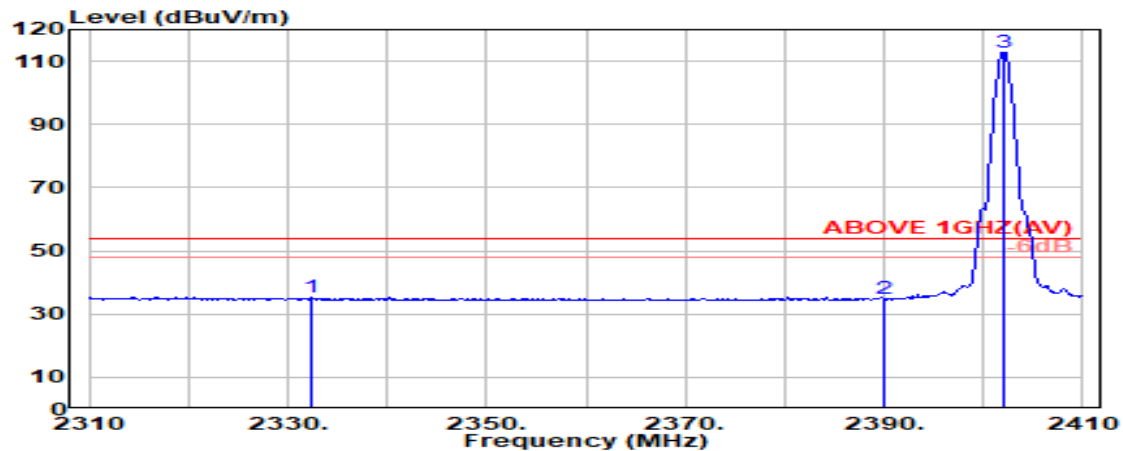
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2383.200	28.20	5.69	39.88	53.37	47.39	74.00	26.61	Peak
2390.000	28.20	5.70	39.88	49.70	43.73	74.00	30.27	Peak
@ 2402.200	28.20	5.72	39.88	119.29	113.34	---	---	Peak



Antenna at Vertical Polarization

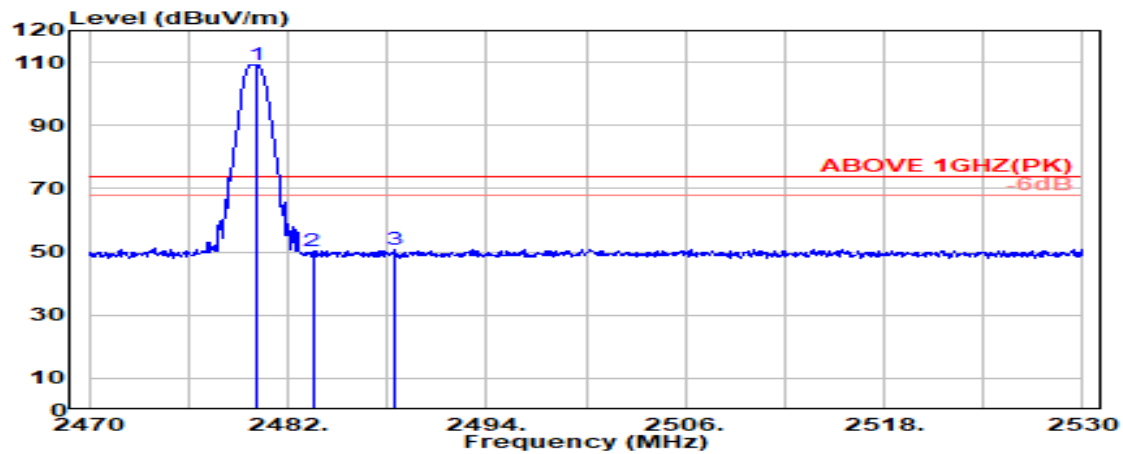
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2332.400	28.13	5.62	39.88	41.37	35.24	54.00	18.76	Average
2390.000	28.20	5.70	39.88	40.81	34.84	54.00	19.16	Average
@ 2402.000	28.20	5.72	39.88	118.84	112.89	---	---	Average

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

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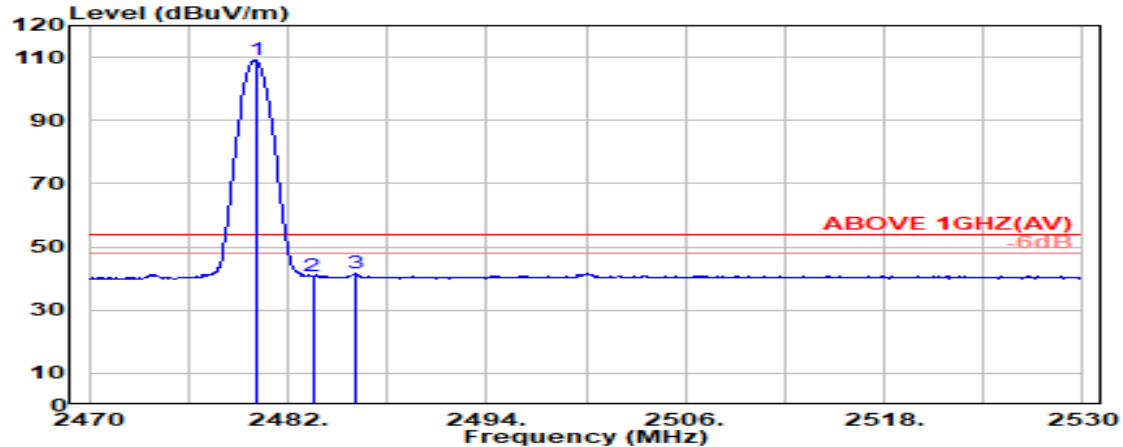
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.150	28.42	5.82	39.87	114.88	109.25	---	---	Peak
2483.500	28.43	5.83	39.87	55.86	50.25	74.00	23.75	Peak
2488.500	28.45	5.83	39.87	56.52	50.94	74.00	23.06	Peak



Antenna at Horizontal Polarization

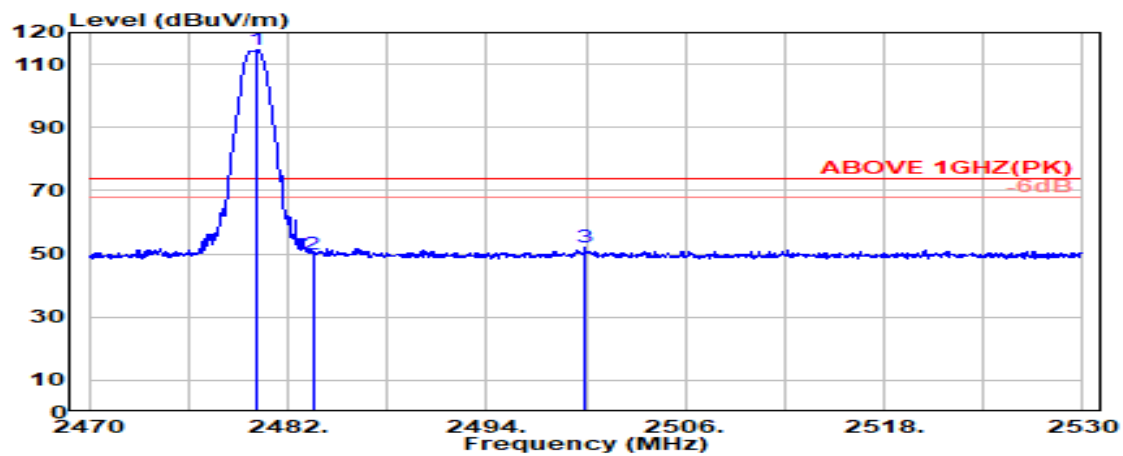
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.42	5.82	39.87	114.66	109.03	---	---	Average
2483.500	28.43	5.83	39.87	46.27	40.66	54.00	13.34	Average
2486.150	28.45	5.83	39.87	47.18	41.59	54.00	12.41	Average

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

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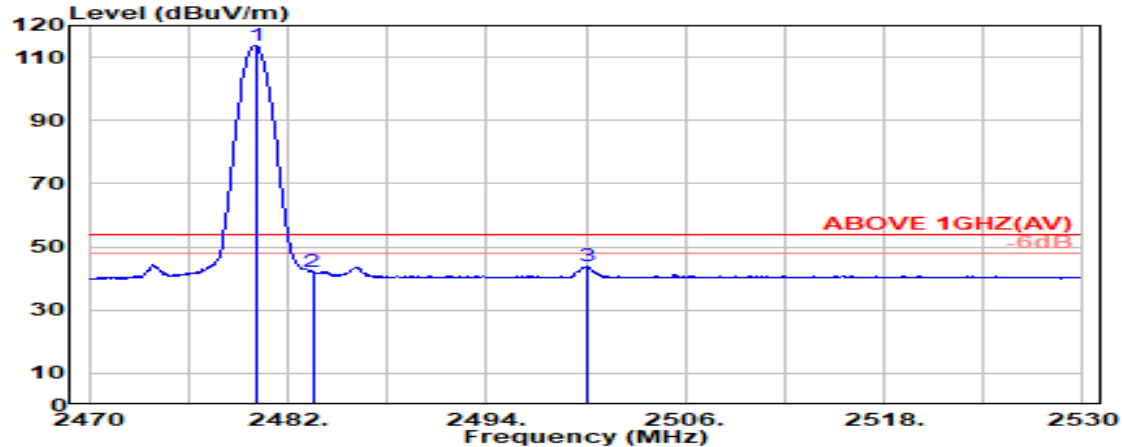
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.150	28.42	5.82	39.87	120.05	114.42	---	---	Peak
	2483.500	28.43	5.83	39.87	55.64	50.04	74.00	23.96	Peak
	2499.900	28.50	5.85	39.87	57.46	51.94	74.00	22.06	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.050	28.42	5.82	39.87	119.42	113.79	---	---	Average
	2483.500	28.43	5.83	39.87	47.65	42.04	54.00	11.96	Average
	2500.100	28.50	5.85	39.87	49.34	43.82	54.00	10.18	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	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.02	39.30	40.23	41.67	54.00	12.33	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.02	39.30	40.13	41.57	54.00	12.43	Peak

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
4882.000	33.03	8.08	39.26	40.69	42.54	54.00	11.46	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.03	8.08	39.26	38.91	40.75	54.00	13.25	Peak

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.22	8.13	39.23	40.15	42.28	54.00	11.72	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.22	8.13	39.23	42.36	44.48	54.00	9.52	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	2025/09/19	Temp./Hum.	23°C/56%
Cable Loss	1.50dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 20dB Bandwidth Result

Main

Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9249	0.85434	0.617
	2441	0.9235	0.84852	0.616
	2480	0.8816	0.82267	0.588
8-DPSK	2402	1.366	1.2292	0.911
	2441	1.367	1.2296	0.911
	2480	1.366	1.2291	0.911

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

Aux

Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.8797	0.83106	0.586
	2441	0.9199	0.84720	0.613
	2480	0.9199	0.85128	0.613
8-DPSK	2402	1.364	1.2308	0.909
	2441	1.365	1.2324	0.910
	2480	1.363	1.2302	0.909

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

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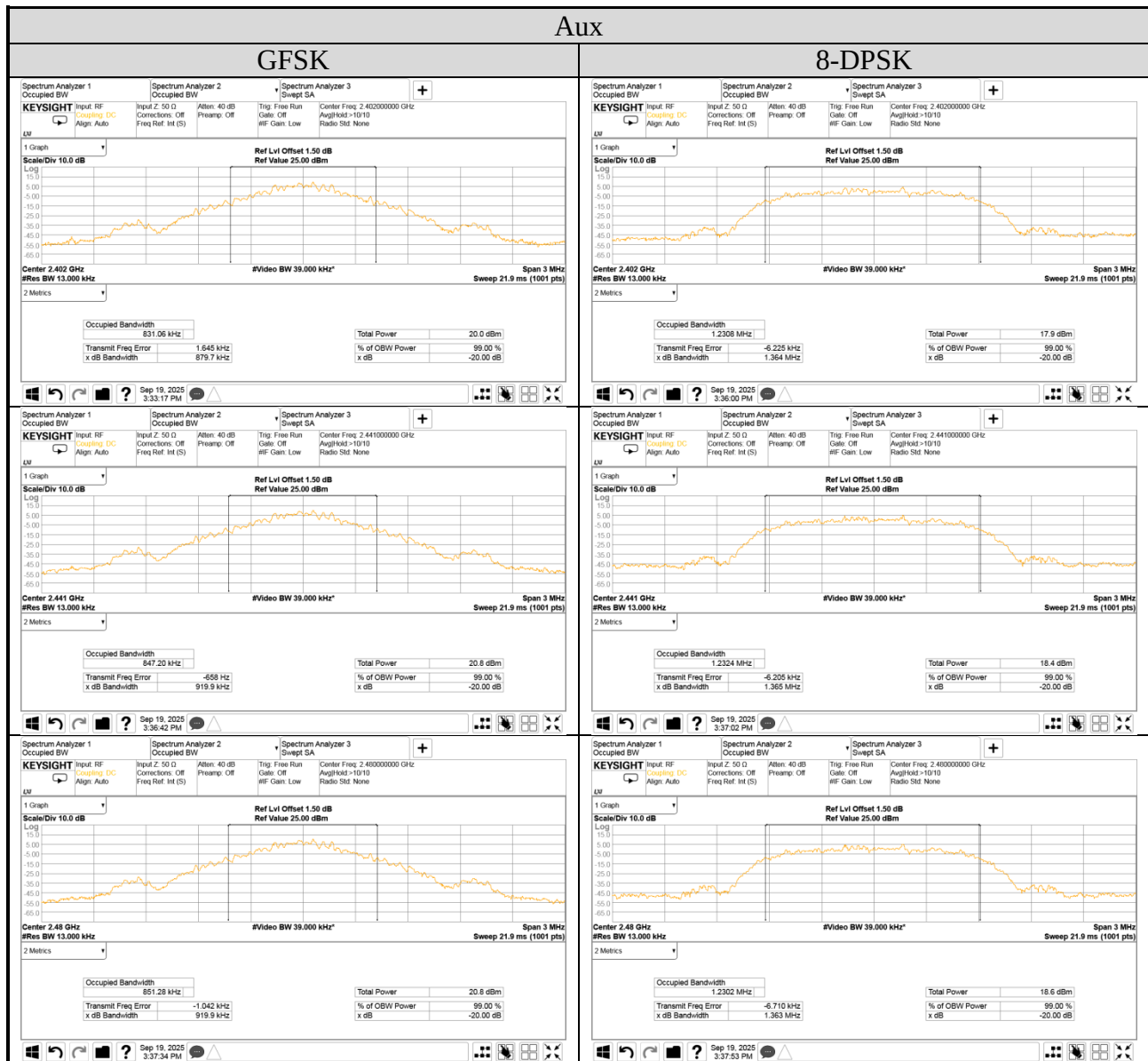
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A.3.2 Measurement Plots



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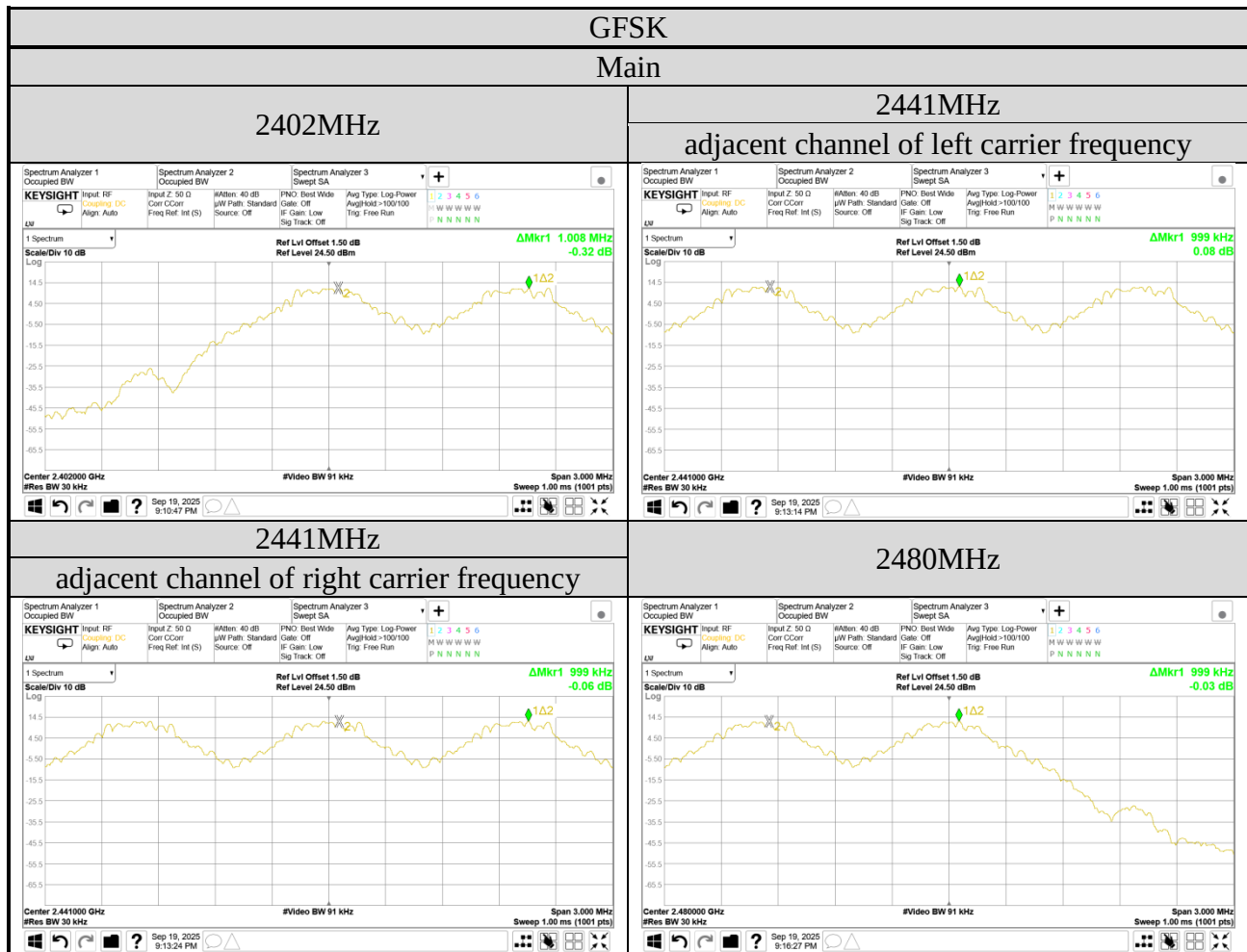


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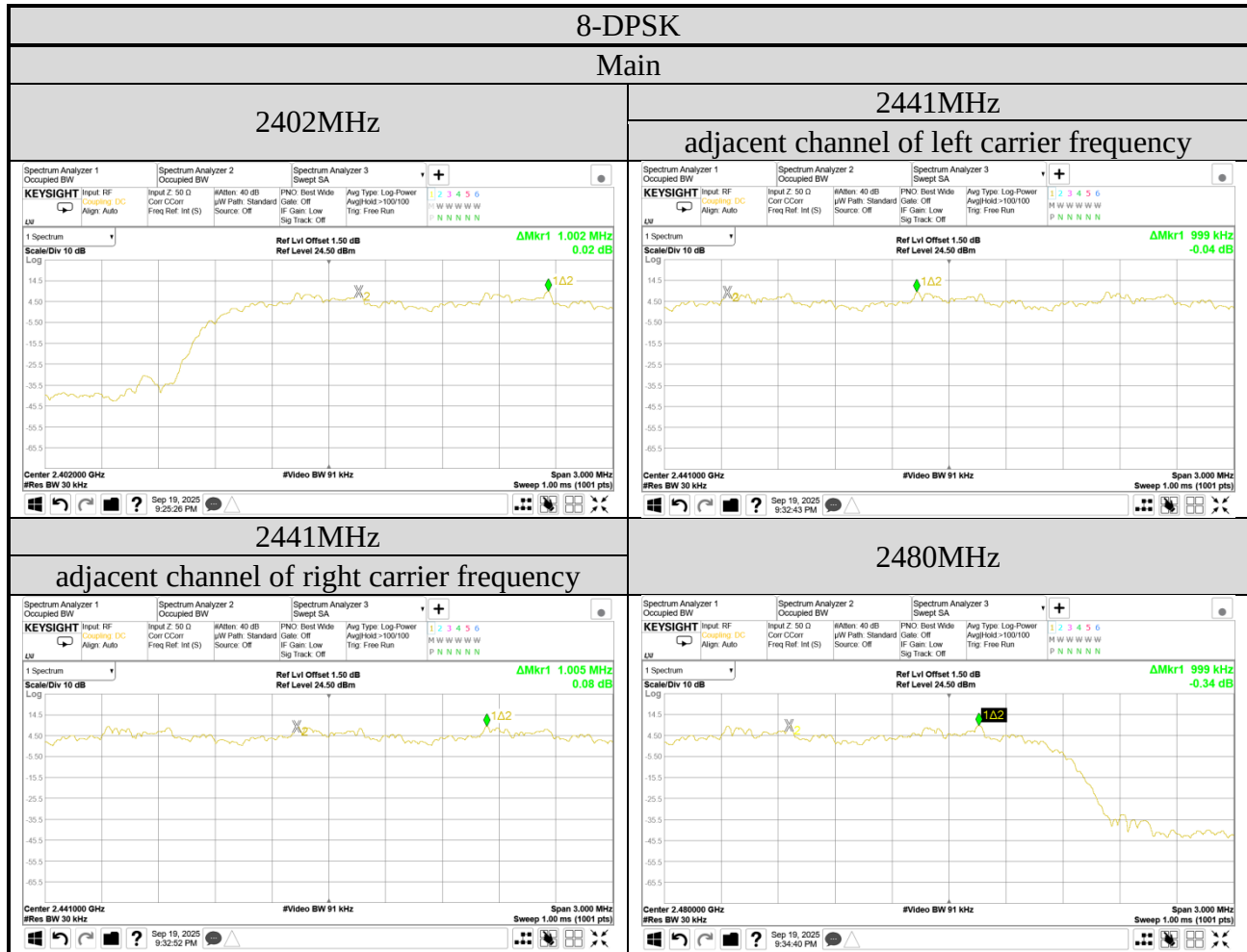
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2025/09/19	Temp./Hum.	23°C/56%
Cable Loss	1.50dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



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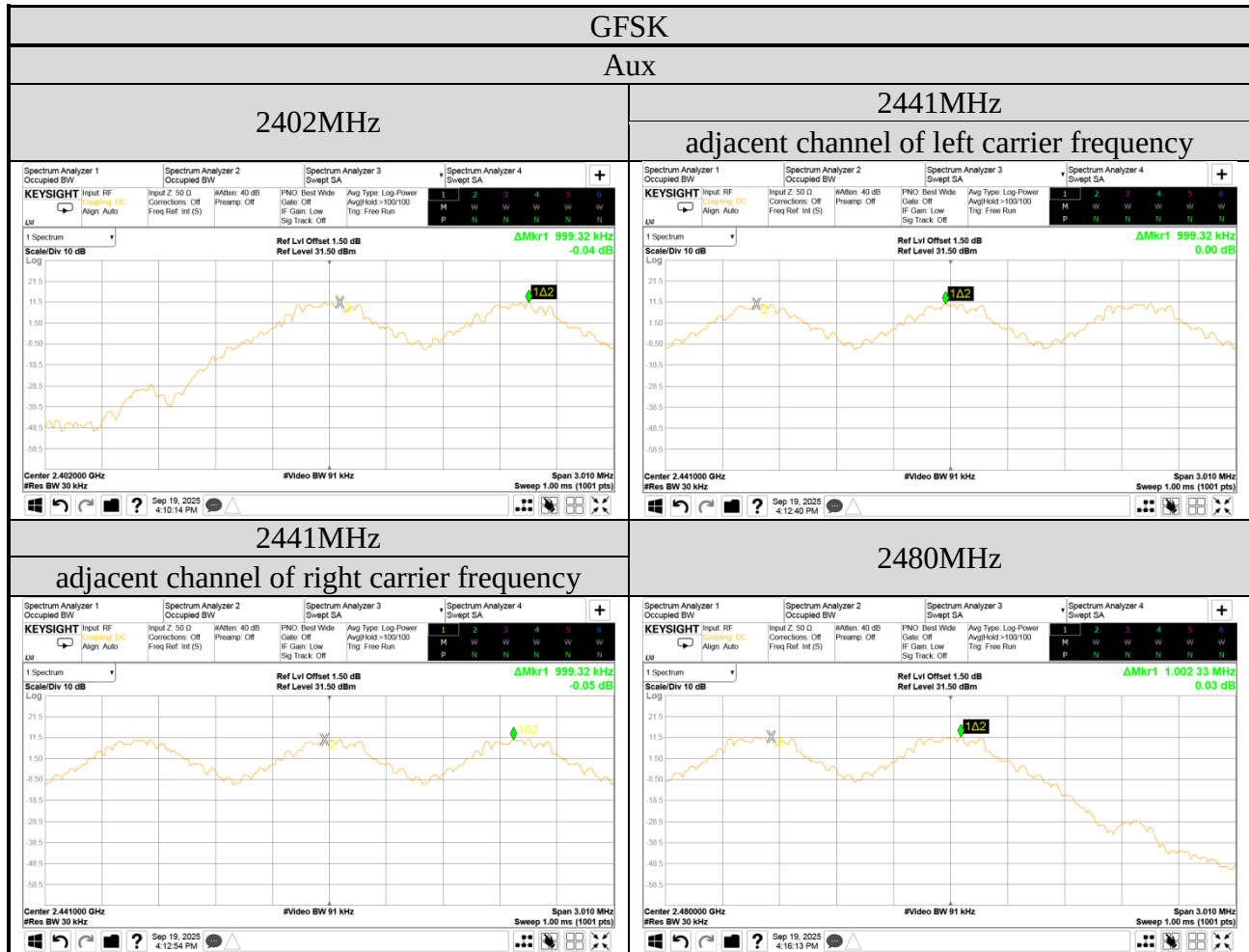
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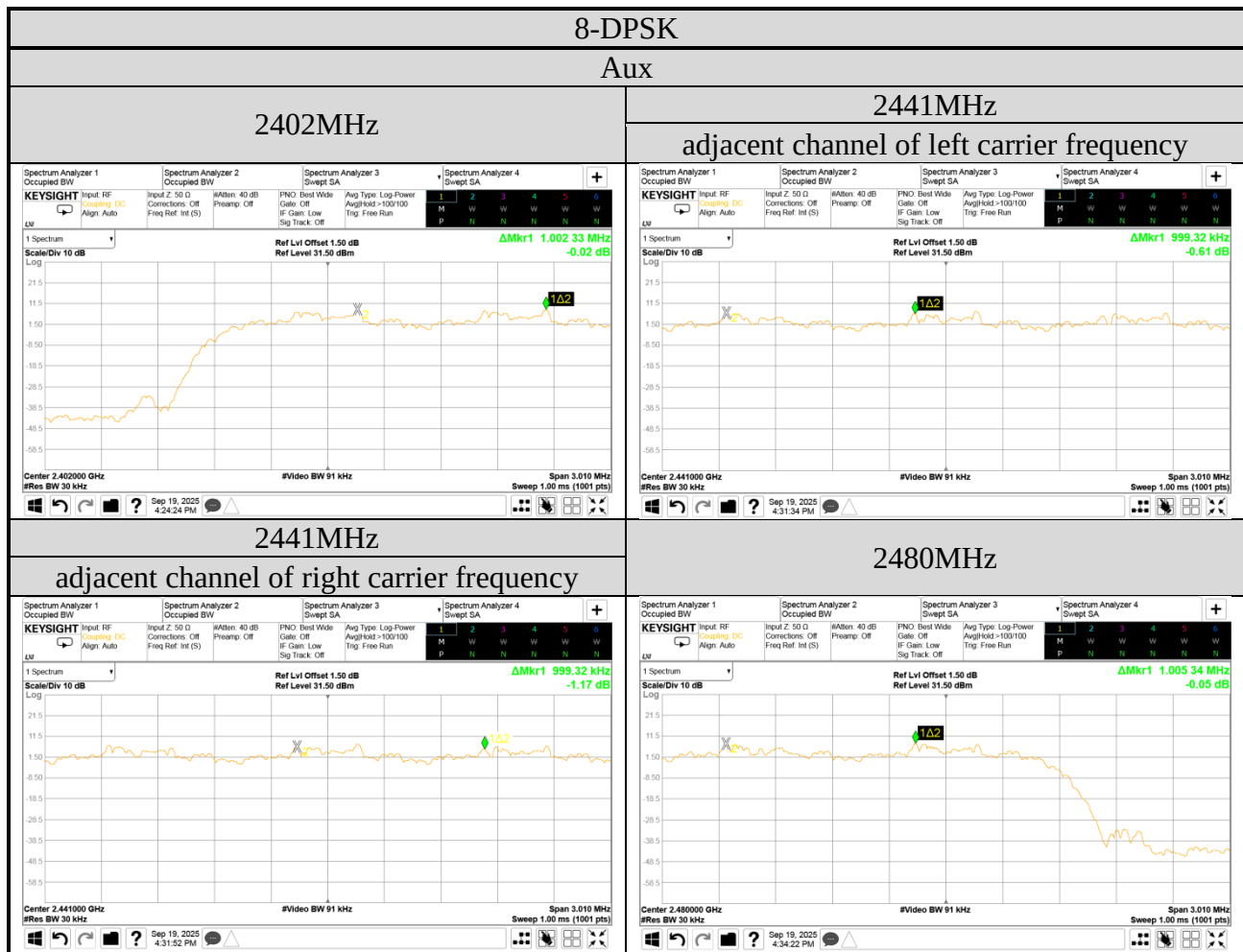
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A.5 TIME OF OCCUPANCY

Test Date	2025/09/19	Temp./Hum.	23°C/56%
Cable Loss	1.50dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.5.1 Time of Occupancy

Main

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	0.375	118.500	<400
		DH3	5	1.620	255.960	<400
		DH5	1	2.880	91.008	<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* 0.375 ms= 118.500 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 1 transmission appearance, the longest time of occupancy is

1 transmission* 31.6 seconds* 2.880 ms= 91.008 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	0.375	118.500	<400
		DH3	5	1.620	255.960	<400
		DH5	1	2.880	91.008	<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* 0.375 ms= 118.500 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 1 transmission appearance, the longest time of occupancy is

1 transmission* 31.6 seconds* 2.880 ms= 91.008 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	0.375	118.500	<400
		DH3	5	1.620	255.960	<400
		DH5	1	2.880	91.008	<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* 0.375 ms= 118.500 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 1 transmission appearance,the longest time of occupancy is
1 transmission* 31.6 seconds* 2.880 ms= 91.008 ms (<400ms)

Aux

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	0.375	118.500	<400
		DH3	5	1.620	255.960	<400
		DH5	1	2.880	91.008	<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* 0.375 ms= 118.500 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 1 transmission appearance, the longest time of occupancy is
1 transmission* 31.6 seconds* 2.880 ms= 91.008 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	0.375	118.500	<400
		DH3	5	1.620	255.960	<400
		DH5	1	2.880	91.008	<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* 0.375 ms= 118.500 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

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1 transmission* 31.6 seconds* 2.880 ms= 91.008 ms (<400ms)

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GFSK	2480	DH1	10	0.375	118.500	<400
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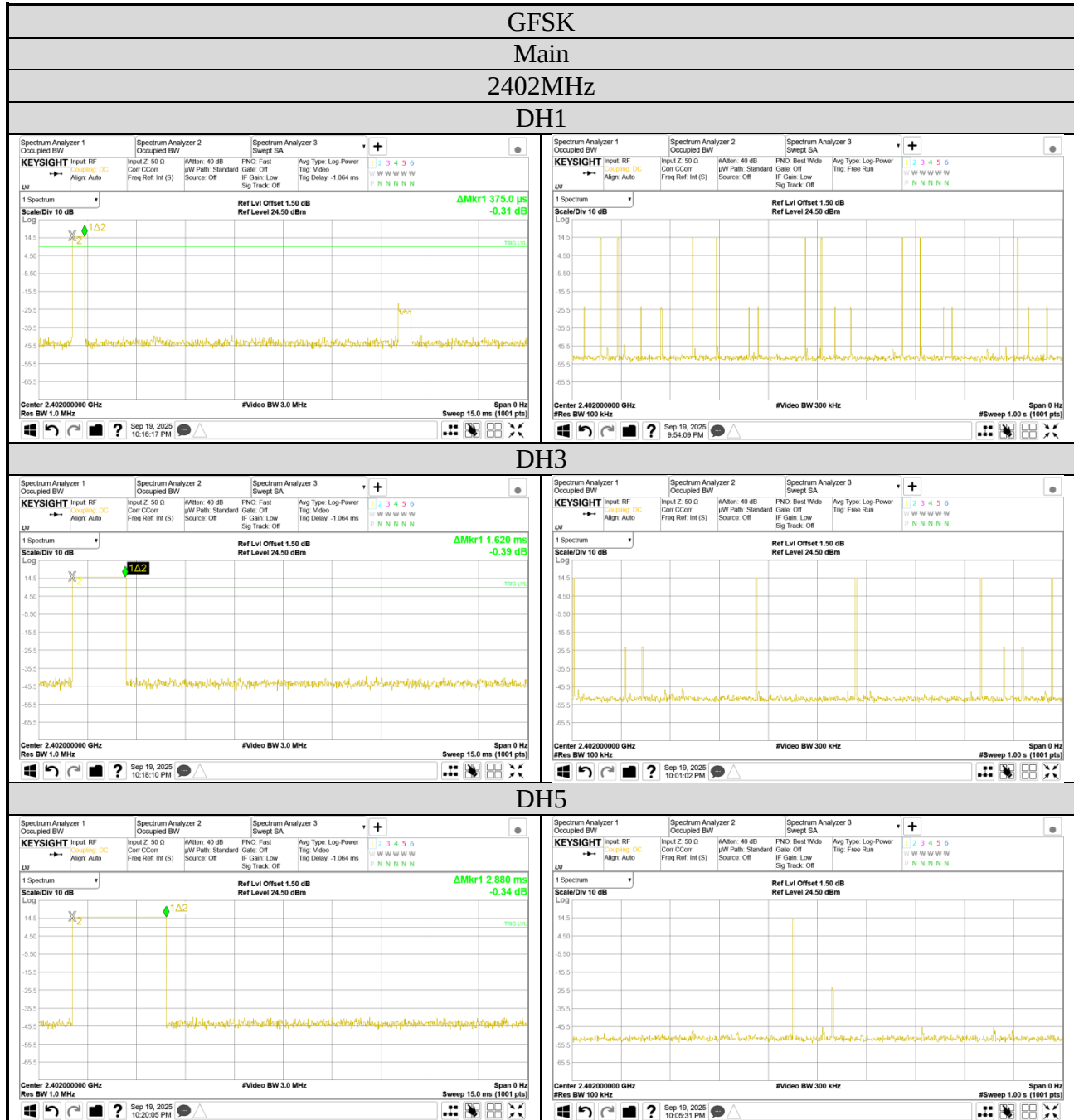
DH5 Mode

For each second of 1 transmission appearance, the longest time of occupancy is
1 transmission * 31.6 seconds * 2.880 ms = 91.008 ms (<400ms)

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● Measurement Plots



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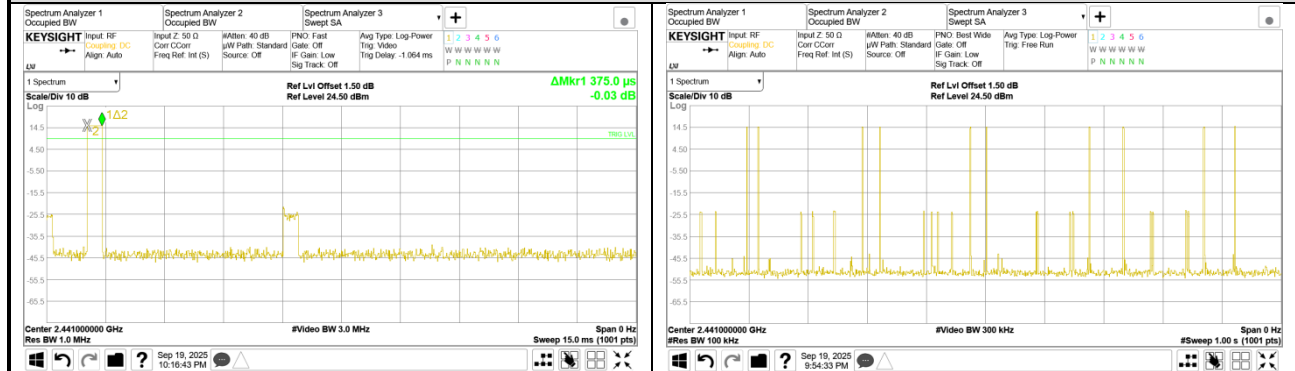
Tel: +886 2 26099301
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GFSK

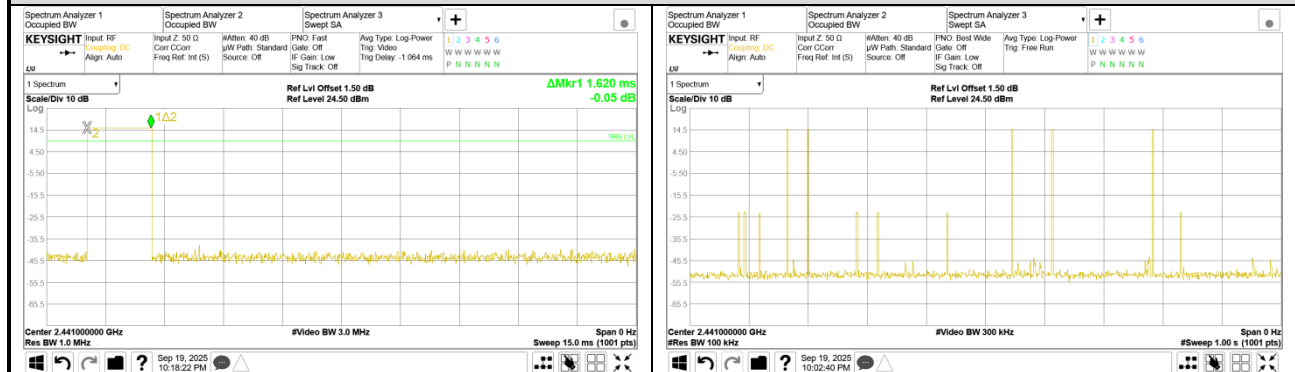
Main

2441MHz

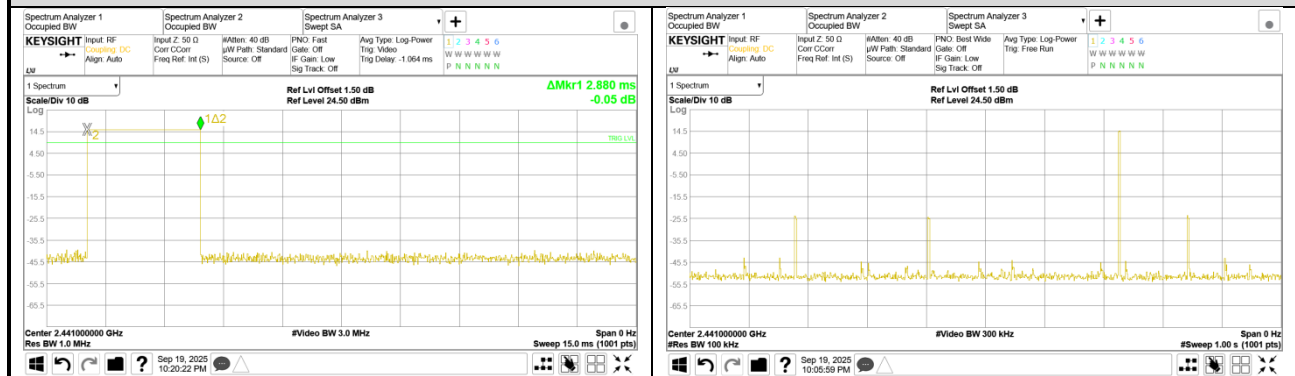
DH1



DH3



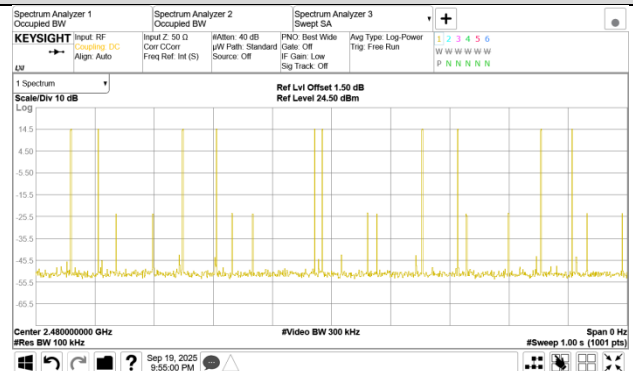
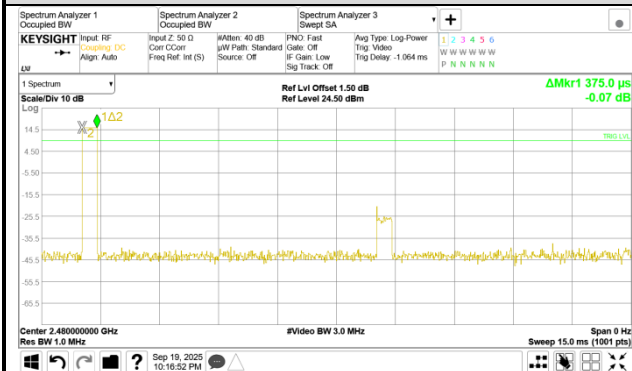
DH5



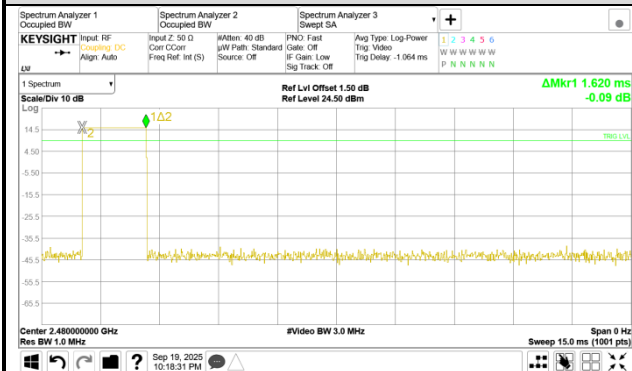
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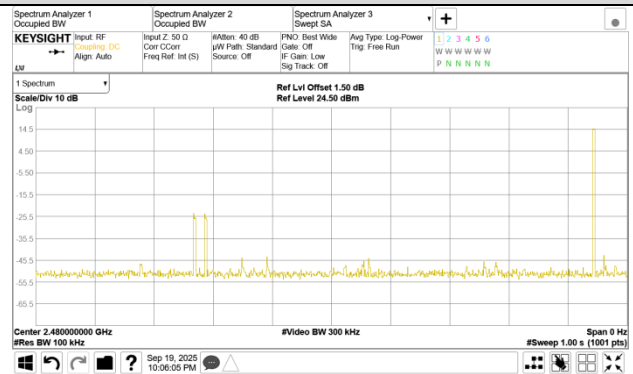
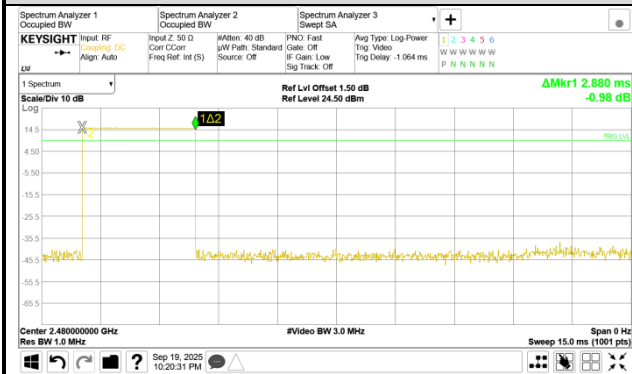
GFSK Main 2480MHz DH1



DH3



DH5



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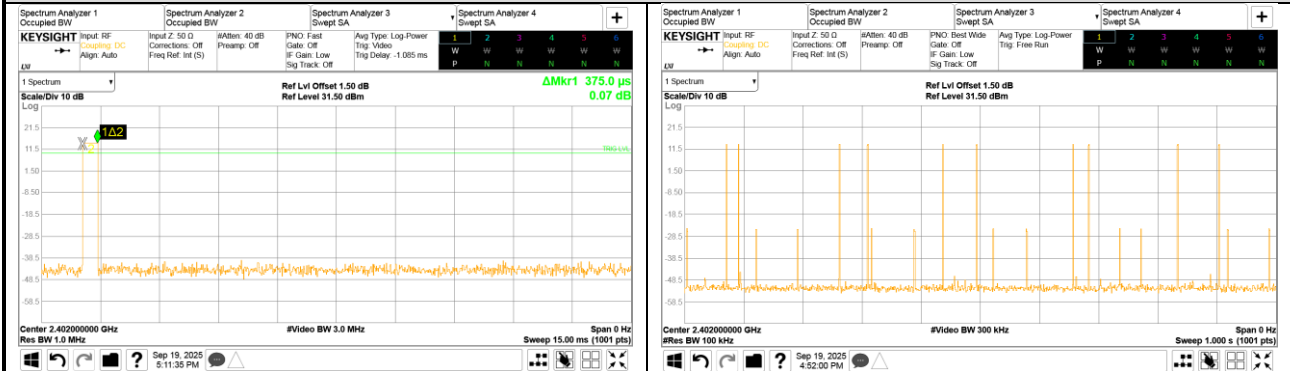
Tel: +886 2 26099301
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GFSK

Aux

2402MHz

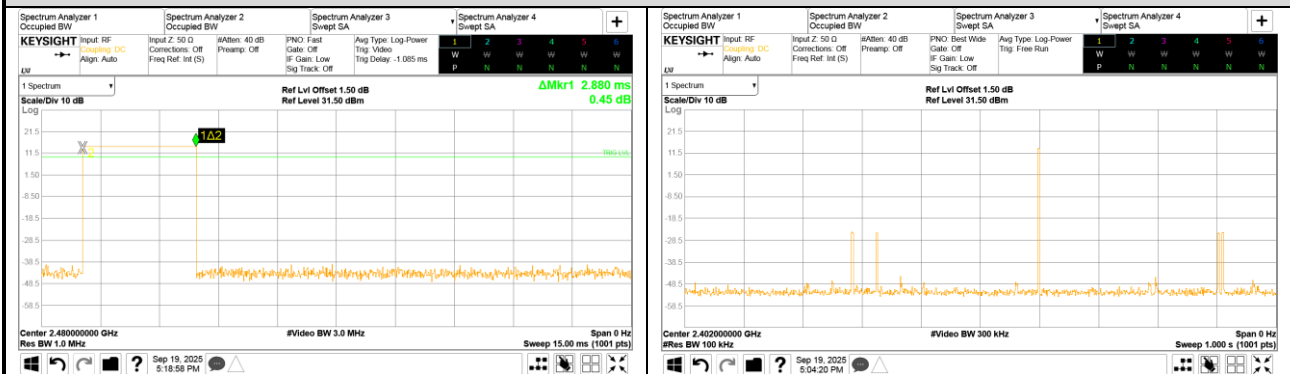
DH1



DH3



DH5



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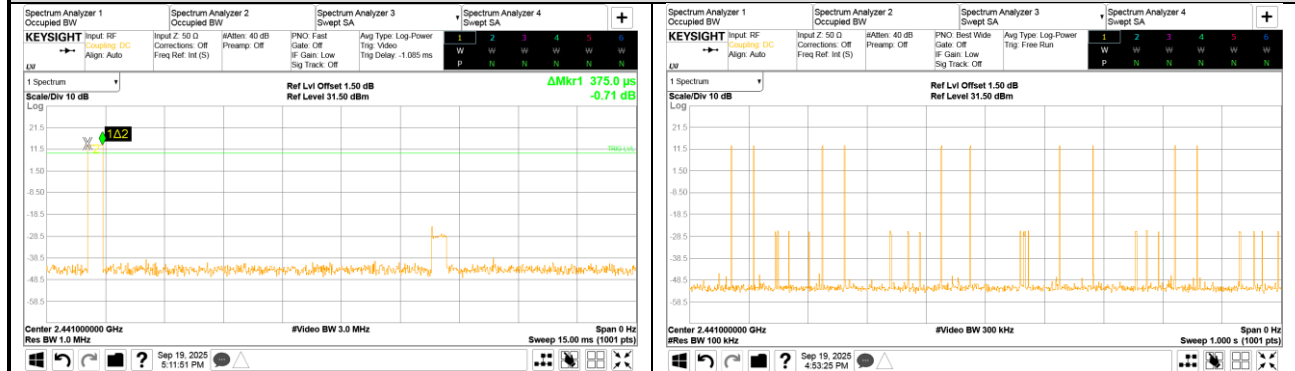
Tel: +886 2 26099301
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GFSK

Aux

2441MHz

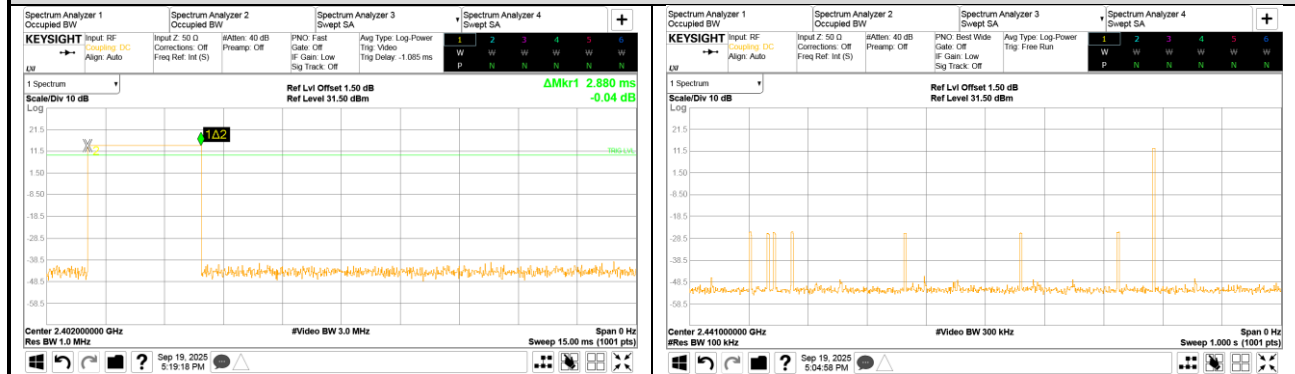
DH1



DH3



DH5



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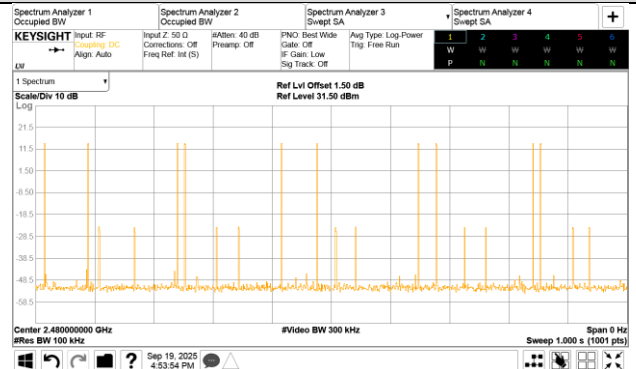
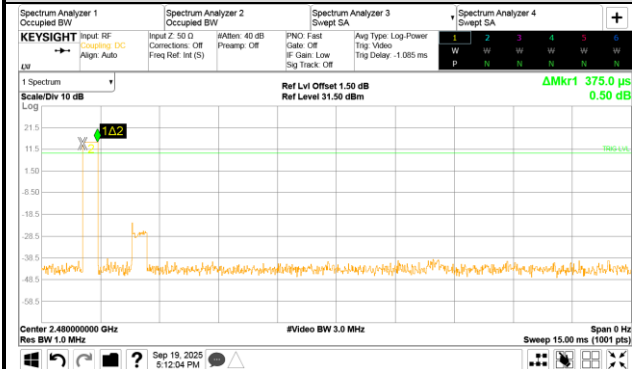
Tel: +886 2 26099301
Fax: +886 2 26099303

GFSK

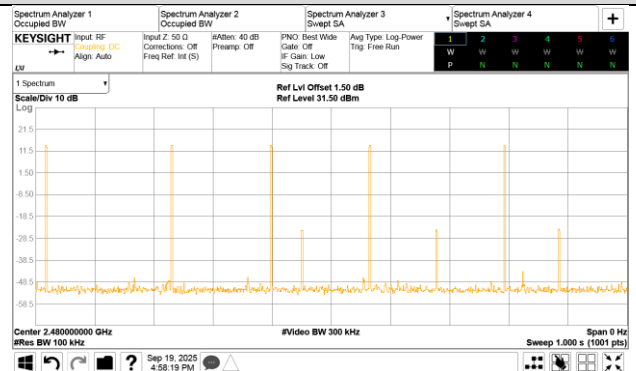
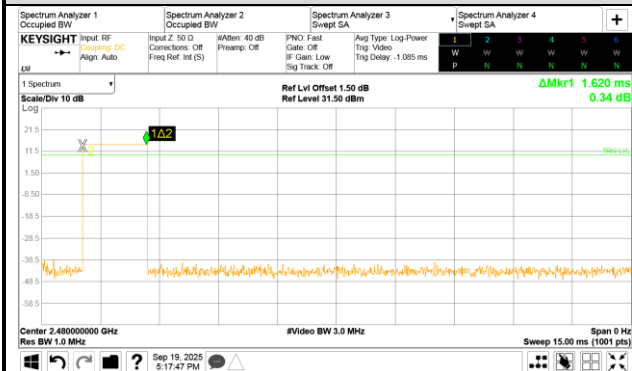
Aux

2480MHz

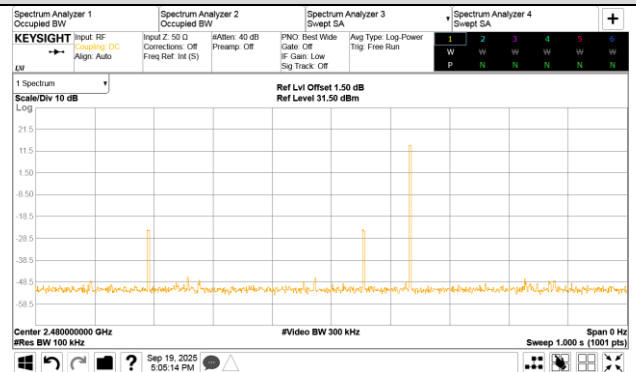
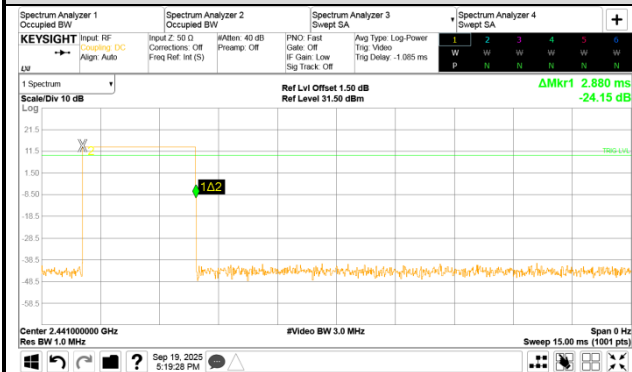
DH1



DH3



DH5



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Main

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	0.375	118.500	<400
		3DH3	5	1.635	258.330	<400
		3DH5	1	2.880	91.008	<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* 0.375 ms= 118.500 ms (<400ms)

3DH3 Mode

For each second of 5 transmission appearance,the longest time of occupancy is
5 transmission* 31.6 seconds* 1.635 ms= 258.330 ms (<400ms)

3DH5 Mode

For each second of 1 transmission appearance,the longest time of occupancy is
1 transmission* 31.6 seconds* 2.880 ms= 91.008 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	0.375	118.500	<400
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Observation Period:

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3DH5 Mode

For each second of **1** transmission appearance, the longest time of occupancy is
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Aux

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	0.375	118.500	<400
		3DH3	5	1.635	258.330	<400
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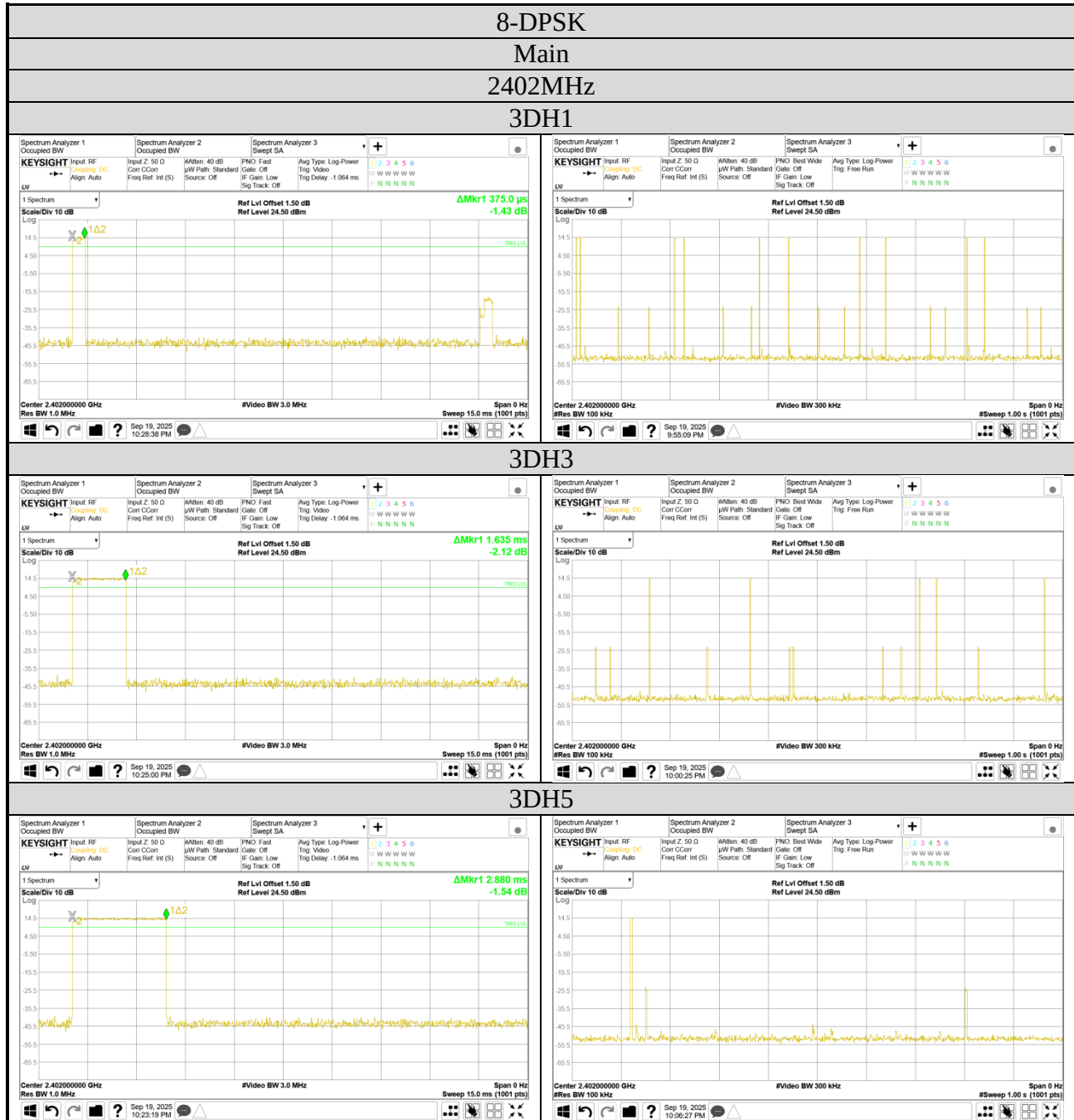
3DH5 Mode

For each second of **1** transmission appearance, the longest time of occupancy is
1 transmission* **31.6** seconds* **2.880** ms= **91.008** ms (<400ms)

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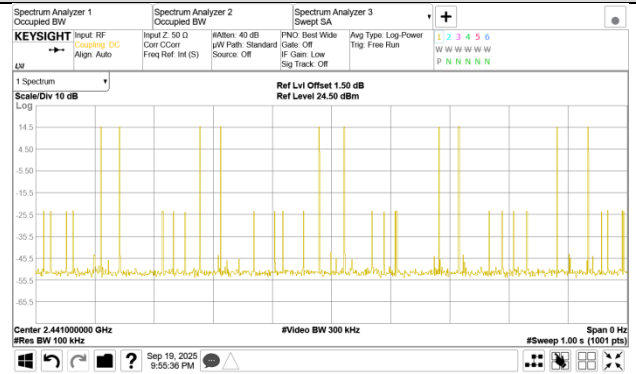
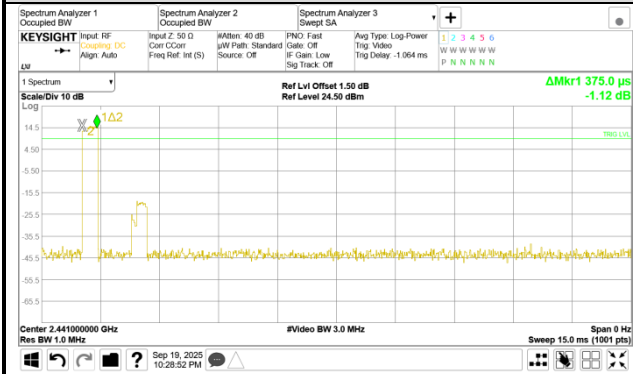
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8-DPSK

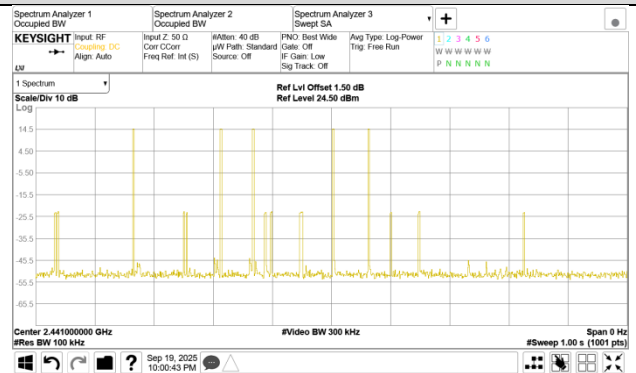
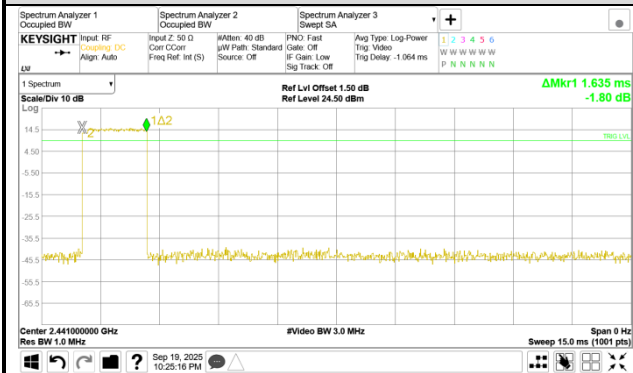
Main

2441MHz

3DH1



3DH3



3DH5

