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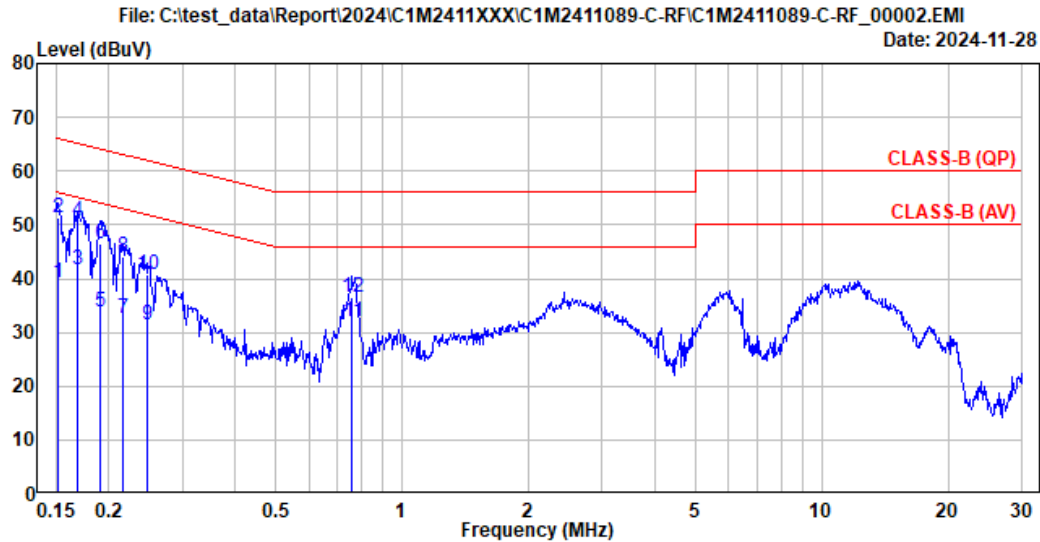
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A.1 CONDUCTED EMISSION

Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Antenna	INPOAQ		



Site No.	: No.7 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 21°C/52%	Test Rating	: 120ac/60Hz
EUT Model	: 17Z90TL	Engineer	: Byron Wu
Test Mode	: OPERATION		
	INPAQ		

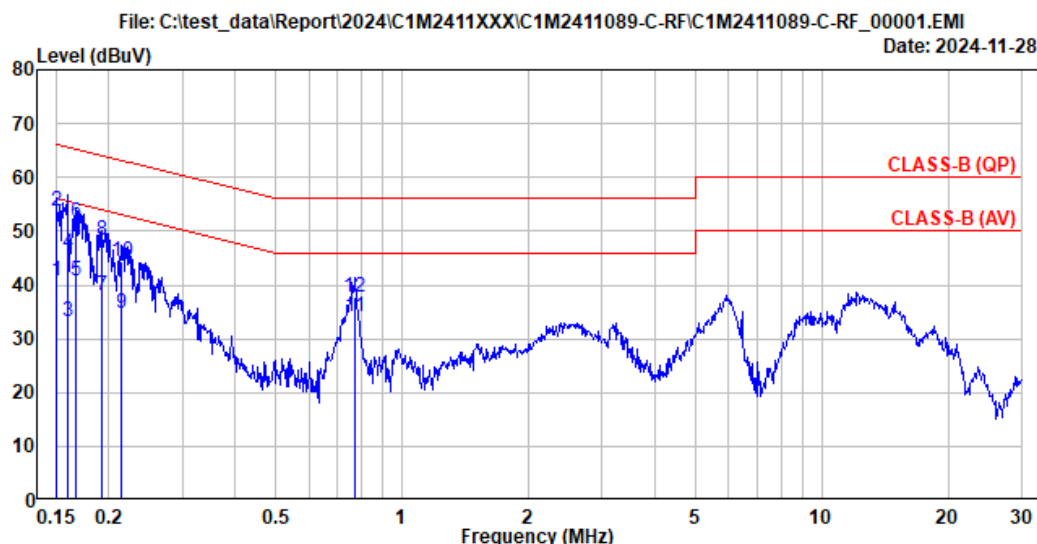
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.17	0.05	9.86	29.07	39.15	55.92	16.77	Average
2	0.152	0.17	0.05	9.86	41.24	51.32	65.92	14.60	QP
3	0.168	0.17	0.05	9.86	31.46	41.54	55.05	13.51	Average
4	0.168	0.17	0.05	9.86	40.69	50.77	65.05	14.28	QP
5	0.191	0.17	0.05	9.87	23.66	33.75	54.01	20.26	Average
6	0.191	0.17	0.05	9.87	36.46	46.55	64.01	17.46	QP
7	0.216	0.17	0.05	9.87	22.38	32.47	52.98	20.51	Average
8	0.216	0.17	0.05	9.87	34.00	44.09	62.98	18.89	QP
9	0.247	0.17	0.05	9.86	21.34	31.42	51.86	20.44	Average
10	0.247	0.17	0.05	9.86	30.61	40.69	61.86	21.17	QP
11	0.762	0.19	0.06	9.87	21.85	31.97	46.00	14.03	Average
12	0.762	0.19	0.06	9.87	26.29	36.41	56.00	19.59	QP

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

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Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Antenna	INPOAQ		



Site No.	: No.7 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 21°C/52%	Test Rating	: 120ac/60Hz
EUT Model	: 17290TL	Engineer	: Byron Wu
Test Mode	: OPERATION		
	INPAQ		

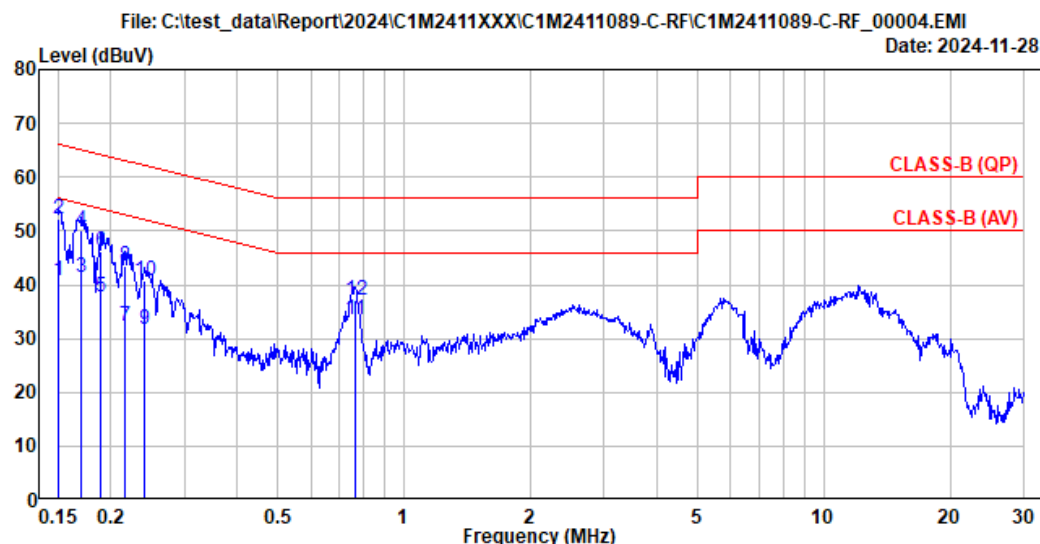
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.14	0.05	9.86	30.65	40.70	56.00	15.30	Average
2	0.150	0.14	0.05	9.86	43.80	53.85	66.00	12.15	QP
3	0.159	0.14	0.05	9.86	23.12	33.17	55.50	22.33	Average
4	0.159	0.14	0.05	9.86	35.90	45.95	65.50	19.55	QP
5	0.167	0.14	0.05	9.86	30.62	40.67	55.09	14.42	Average
6	0.167	0.14	0.05	9.86	41.54	51.59	65.09	13.50	QP
7	0.193	0.14	0.05	9.87	27.97	38.03	53.89	15.86	Average
8	0.193	0.14	0.05	9.87	38.34	48.40	63.89	15.49	QP
9	0.215	0.14	0.05	9.87	24.63	34.69	53.02	18.33	Average
10	0.215	0.14	0.05	9.87	34.28	44.34	63.02	18.68	QP
11	0.769	0.18	0.06	9.87	23.96	34.07	46.00	11.93	Average
12	0.769	0.18	0.06	9.87	27.67	37.78	56.00	18.22	QP

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

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Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Antenna	LUXSHARE-ICT		



Site No.	: No.7 Shielded Room	Data No.	: 4
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 21°C/52%	Test Rating	: 120ac/60Hz
EUT Model	: 17Z90TL	Engineer	: Byron Wu
Test Mode	: OPERATION		
	LUXSHARE		

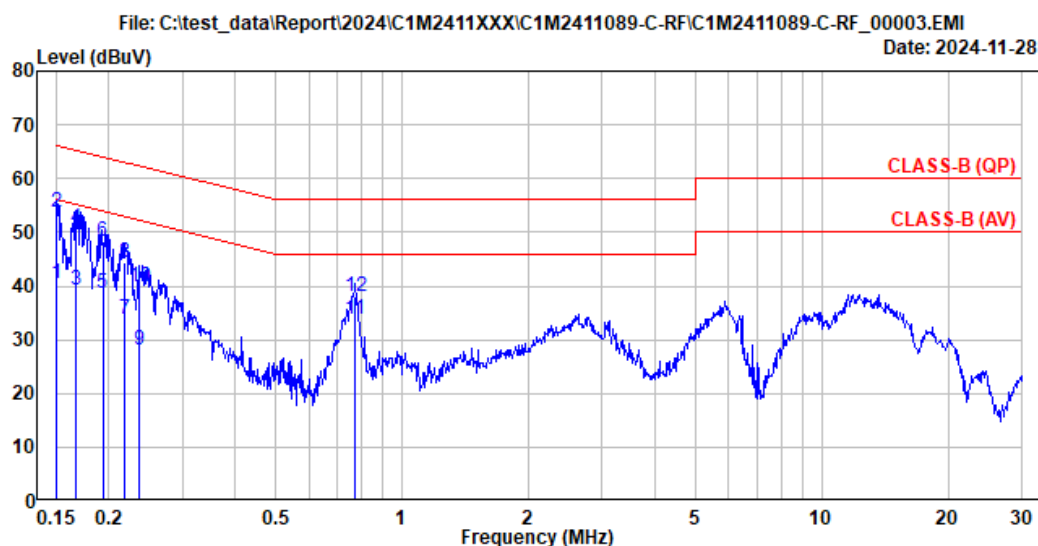
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.17	0.05	9.86	30.64	40.72	56.00	15.28	Average
2	0.150	0.17	0.05	9.86	42.11	52.19	66.00	13.81	QP
3	0.171	0.17	0.05	9.86	31.30	41.38	54.92	13.54	Average
4	0.171	0.17	0.05	9.86	40.16	50.24	64.92	14.68	QP
5	0.190	0.17	0.05	9.87	27.52	37.61	54.05	16.44	Average
6	0.190	0.17	0.05	9.87	36.18	46.27	64.05	17.78	QP
7	0.216	0.17	0.05	9.87	22.17	32.26	52.98	20.72	Average
8	0.216	0.17	0.05	9.87	33.45	43.54	62.98	19.44	QP
9	0.241	0.17	0.05	9.87	21.76	31.85	52.07	20.22	Average
10	0.241	0.17	0.05	9.87	30.68	40.77	62.07	21.30	QP
11	0.765	0.19	0.06	9.87	23.46	33.58	46.00	12.42	Average
12	0.765	0.19	0.06	9.87	27.15	37.27	56.00	18.73	QP

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

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Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Antenna	LUXSHARE-ICT ANT		



Site No. : No.7 Shielded Room
Instrument 1 : Receiver ESR(114)
Instrument 2 : ESH2-Z5 (366)(A)|CE-07|ESH3-Z2 (495)
Limit : CLASS-B (QP)
Environment : 21°C/52%
EUT Model : 17Z90TL
Test Mode : OPERATION
LUXSHARE

Data No. : 3
Phase : Line
Test Rating : 120ac/60Hz
Engineer : Byron Wu

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.14	0.05	9.86	30.53	40.58	55.99	15.41	Average
2	0.150	0.14	0.05	9.86	43.66	53.71	65.99	12.28	QP
3	0.166	0.14	0.05	9.86	29.15	39.20	55.14	15.94	Average
4	0.166	0.14	0.05	9.86	40.60	50.65	65.14	14.49	QP
5	0.194	0.14	0.05	9.87	28.51	38.57	53.88	15.31	Average
6	0.194	0.14	0.05	9.87	38.19	48.25	63.88	15.63	QP
7	0.218	0.14	0.05	9.87	23.71	33.77	52.90	19.13	Average
8	0.218	0.14	0.05	9.87	34.34	44.40	62.90	18.50	QP
9	0.237	0.14	0.05	9.87	18.11	28.17	52.19	24.02	Average
10	0.237	0.14	0.05	9.87	29.77	39.83	62.19	22.36	QP
11	0.773	0.18	0.06	9.87	23.66	33.77	46.00	12.23	Average
12	0.773	0.18	0.06	9.87	27.80	37.91	56.00	18.09	QP

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

A.2 RADIATED EMISSION

Test Date	2024/12/02 ~ 16	Temp./Hum.	20 ~ 24°C/48 ~ 57%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Kuper Hsu

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

Antenna: INPAQ

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
35.000	22.30	1.30	26.51	37.25	34.34	40.00	5.66	Peak
157.000	16.49	2.95	25.98	33.80	27.25	43.50	16.25	Peak
378.000	21.16	5.28	26.34	32.30	32.40	46.00	13.60	Peak
648.000	24.56	7.03	27.41	27.87	32.05	46.00	13.95	Peak
875.000	25.85	8.54	27.10	27.68	34.96	46.00	11.04	Peak
995.500	27.07	9.25	26.77	27.01	36.56	54.00	17.44	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
35.500	21.98	1.31	26.51	36.72	33.50	40.00	6.50	Peak
184.500	15.48	3.22	25.87	34.87	27.71	43.50	15.79	Peak
378.000	21.16	5.28	26.34	32.73	32.83	46.00	13.17	Peak
602.500	24.40	6.77	27.41	28.05	31.82	46.00	14.18	Peak
876.500	25.86	8.55	27.09	27.51	34.83	46.00	11.17	Peak
971.000	26.80	9.12	26.84	27.19	36.26	54.00	17.74	Peak

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Antenna: LUXSHARE-ICT

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
35.500	21.55	1.45	26.50	38.12	34.63	40.00	5.37	Peak
123.000	17.79	2.78	26.17	32.81	27.21	43.50	16.29	Peak
161.500	15.53	3.18	25.98	37.71	30.44	43.50	13.06	Peak
378.000	20.60	5.54	26.36	32.39	32.17	46.00	13.83	Peak
495.000	22.73	6.60	27.19	28.63	30.77	46.00	15.23	Peak
625.500	24.19	6.95	27.48	27.93	31.58	46.00	14.42	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
35.000	21.86	1.44	26.50	38.02	34.82	40.00	5.18	Peak
124.000	17.73	2.79	26.17	34.10	28.46	43.50	15.04	Peak
159.500	15.62	3.16	25.99	37.49	30.28	43.50	13.22	Peak
378.000	20.60	5.54	26.36	32.09	31.87	46.00	14.13	Peak
475.500	22.44	6.45	27.06	28.12	29.94	46.00	16.06	Peak
518.500	23.08	6.67	27.27	28.16	30.64	46.00	15.36	Peak

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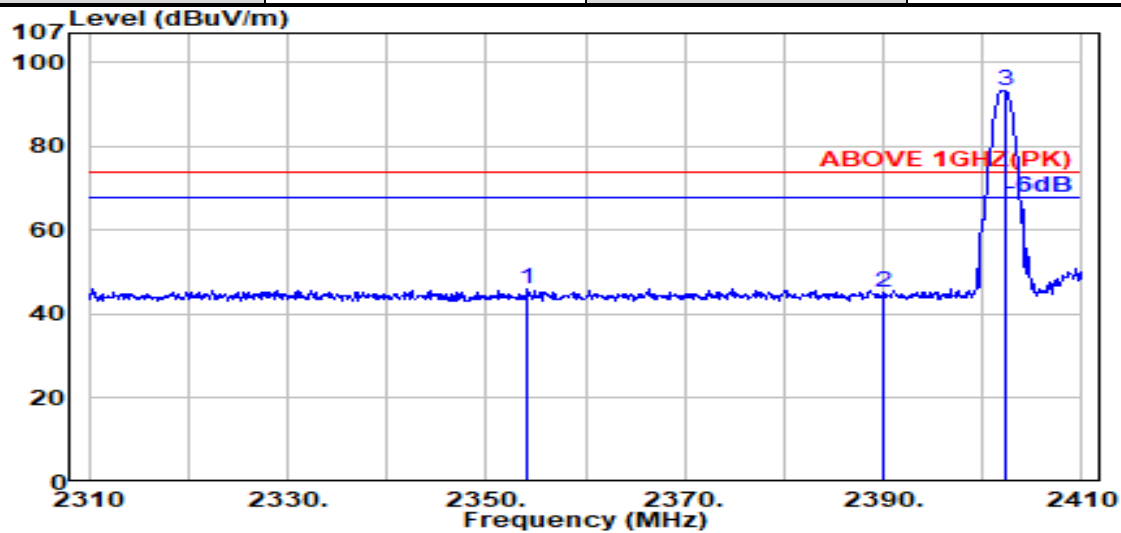
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

Band Edge:

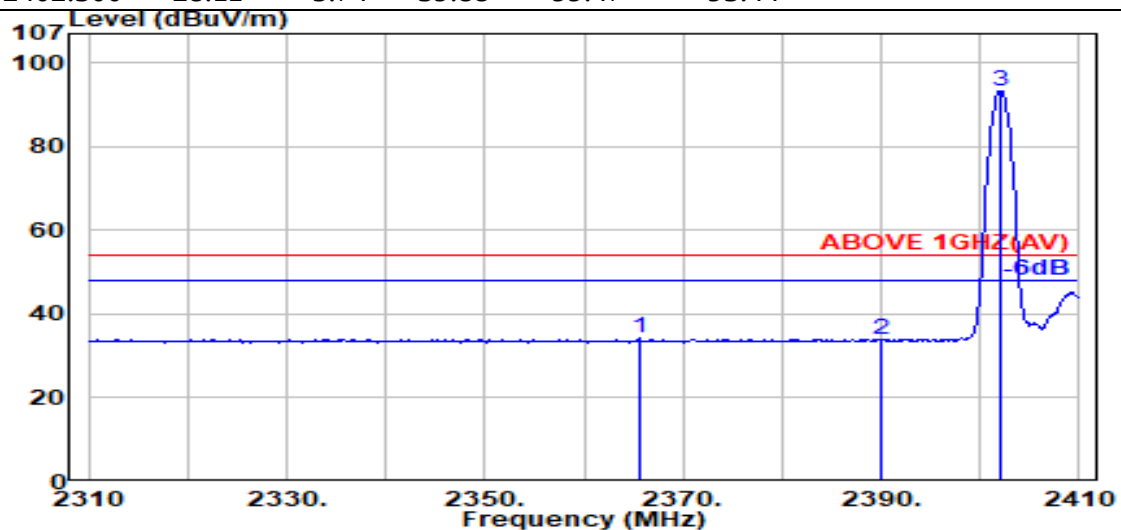
Antenna: INPAQ

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
2354.200	28.28	5.68	39.88	51.98	46.06	74.00	27.94	Peak
2390.000	28.14	5.72	39.88	51.08	45.06	74.00	28.94	Peak
@ 2402.300	28.11	5.74	39.88	99.47	93.44	---	---	Peak



Antenna at Horizontal Polarization

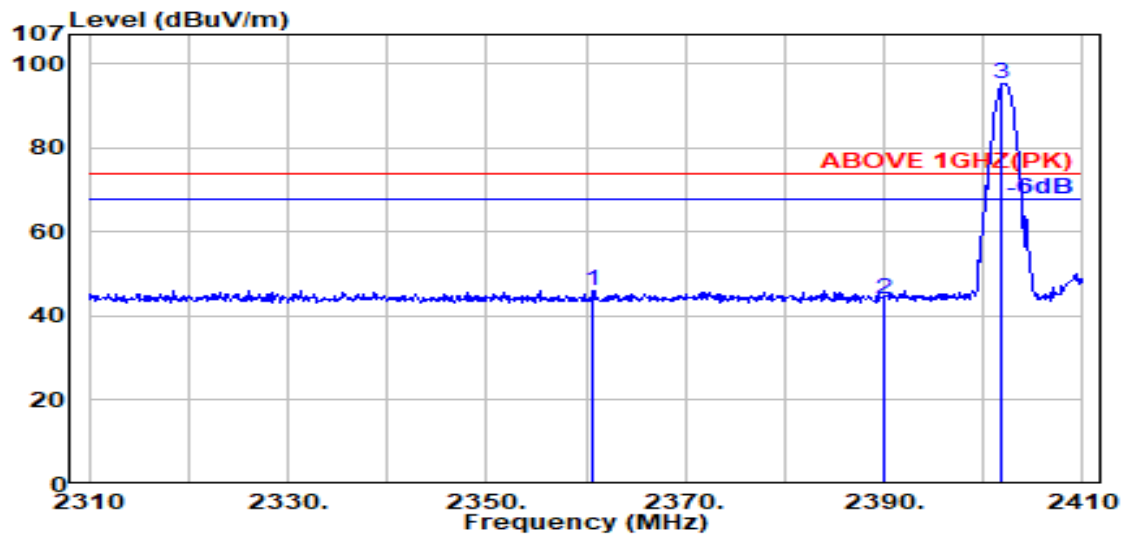
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2365.600	28.24	5.69	39.88	40.13	34.18	54.00	19.82	Average
2390.000	28.14	5.72	39.88	39.87	33.85	54.00	20.15	Average
@ 2402.100	28.11	5.74	39.88	99.33	93.29	---	---	Average

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

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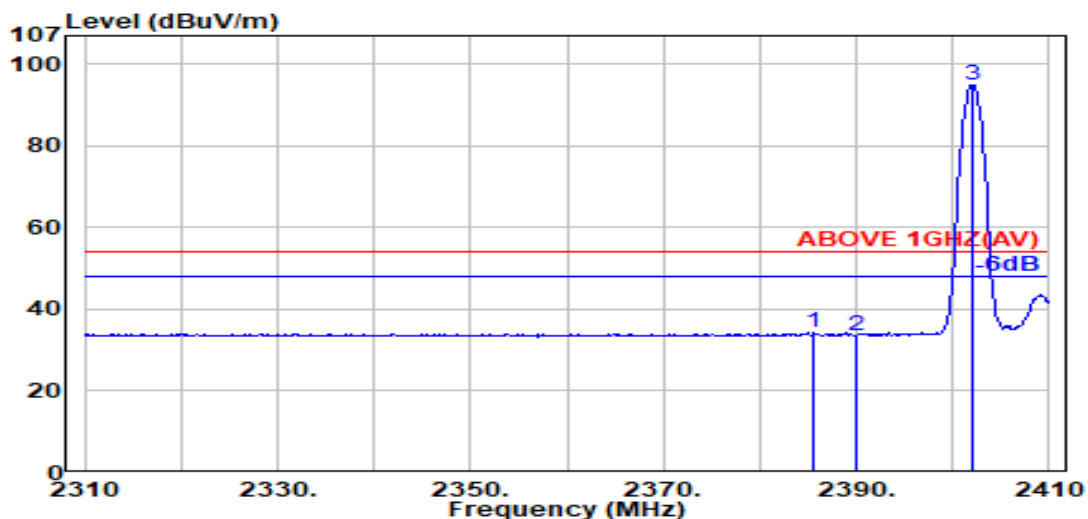
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Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

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
2360.700	28.26	5.69	39.88	52.00	46.07	74.00	27.93	Peak
2390.000	28.14	5.72	39.88	50.12	44.10	74.00	29.90	Peak
@ 2401.900	28.11	5.74	39.88	101.16	95.13	---	---	Peak



Antenna at Vertical Polarization

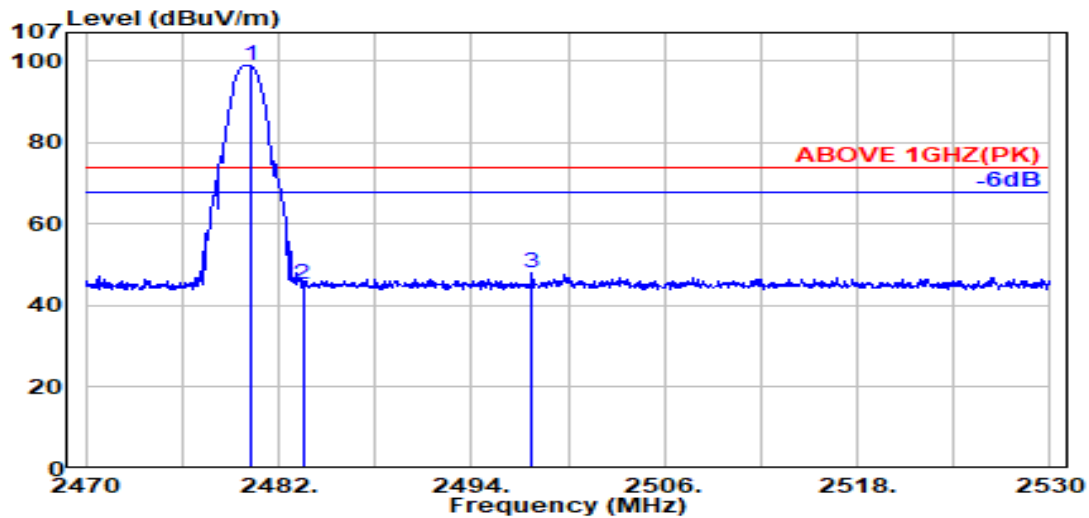
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2385.600	28.16	5.72	39.88	40.23	34.23	54.00	19.77	Average
2390.000	28.14	5.72	39.88	39.65	33.64	54.00	20.36	Average
@ 2402.100	28.11	5.74	39.88	101.04	95.01	---	---	Average

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

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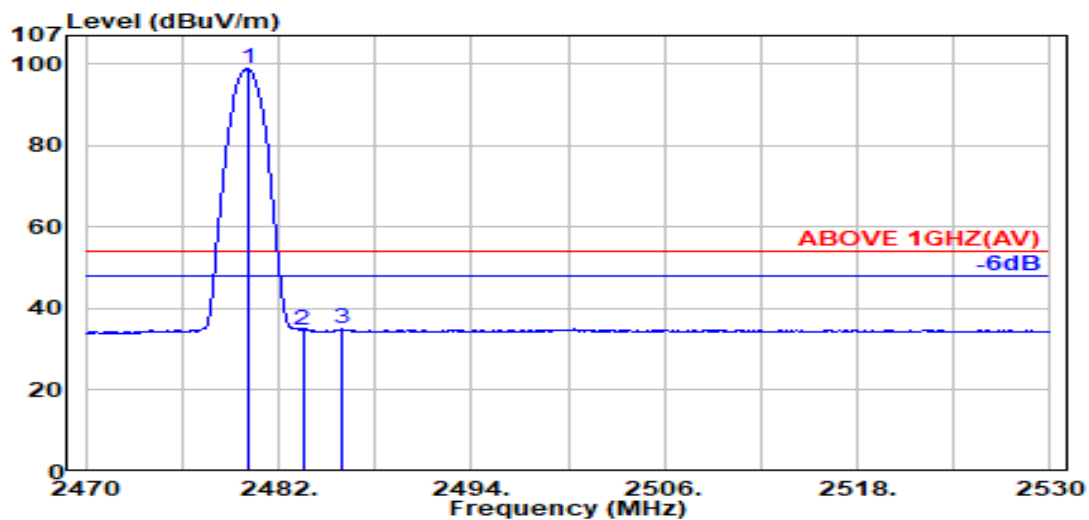
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

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
@ 2480.250	28.36	5.83	39.87	104.74	99.05	---	---	Peak
2483.500	28.37	5.83	39.87	50.80	45.12	74.00	28.88	Peak
2497.750	28.40	5.85	39.87	53.51	47.88	74.00	26.12	Peak



Antenna at Horizontal Polarization

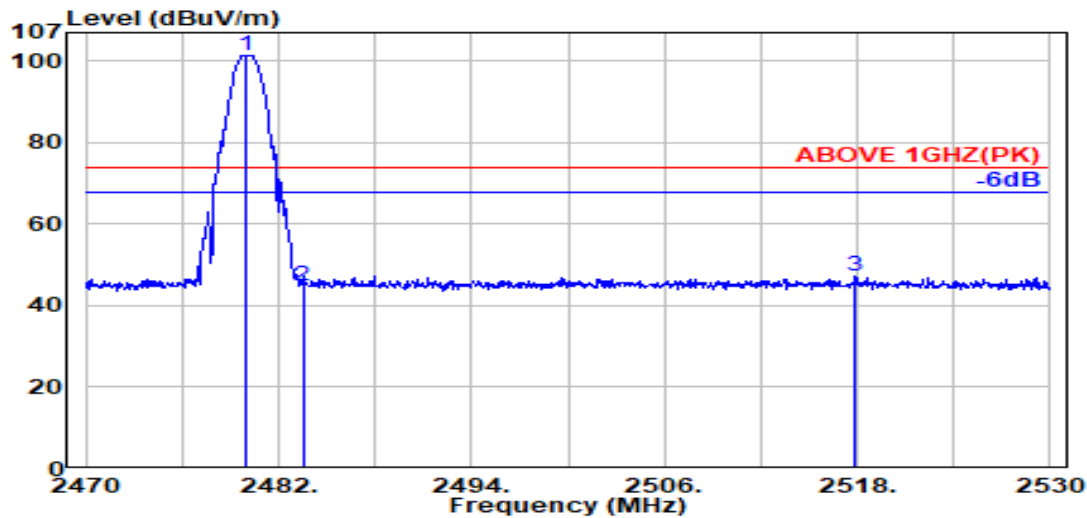
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.83	39.87	104.51	98.83	---	---	Average
2483.500	28.37	5.83	39.87	40.52	34.85	54.00	19.15	Average
2485.950	28.37	5.83	39.87	40.85	35.19	54.00	18.81	Average

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

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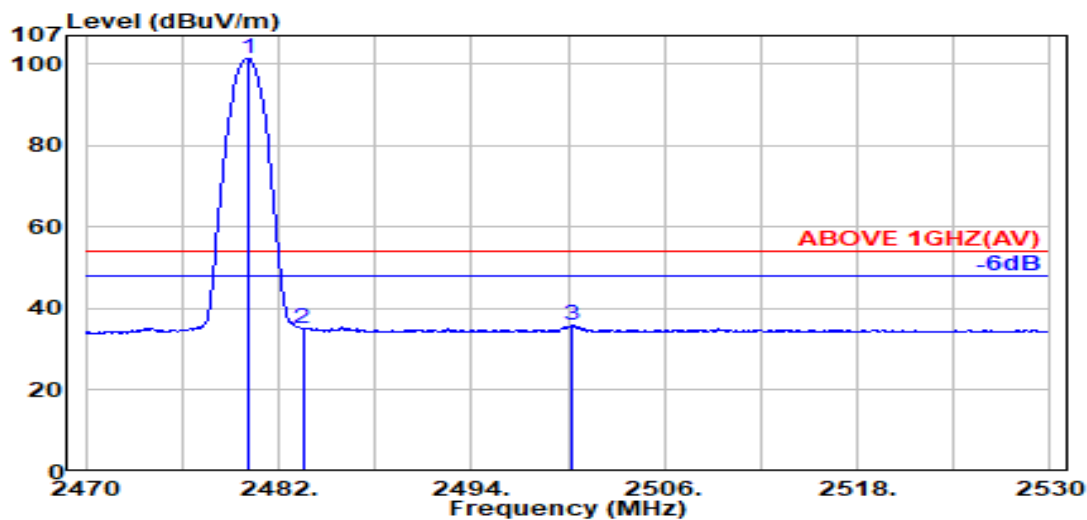
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	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
@	2479.900	28.36	5.83	39.87	107.19	101.51	---	---	Peak
	2483.500	28.37	5.83	39.87	50.68	45.01	74.00	28.99	Peak
	2517.900	28.51	5.87	39.88	52.71	47.21	74.00	26.79	Peak



Antenna at Vertical Polarization

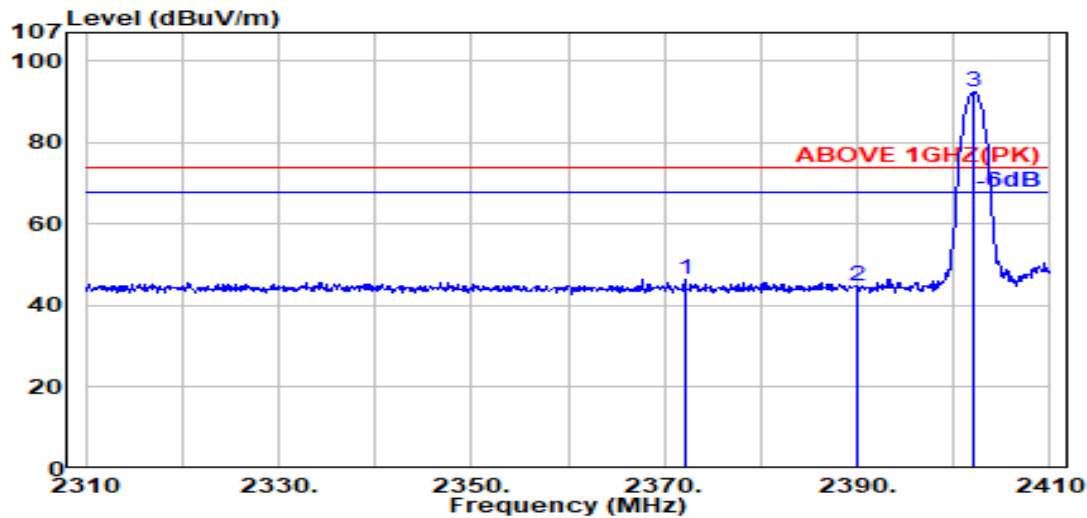
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@	2480.050	28.36	5.83	39.87	107.02	101.34	---	---	Average
	2483.500	28.37	5.83	39.87	40.89	35.21	54.00	18.79	Average
	2500.250	28.40	5.85	39.87	41.75	36.13	54.00	17.87	Average

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

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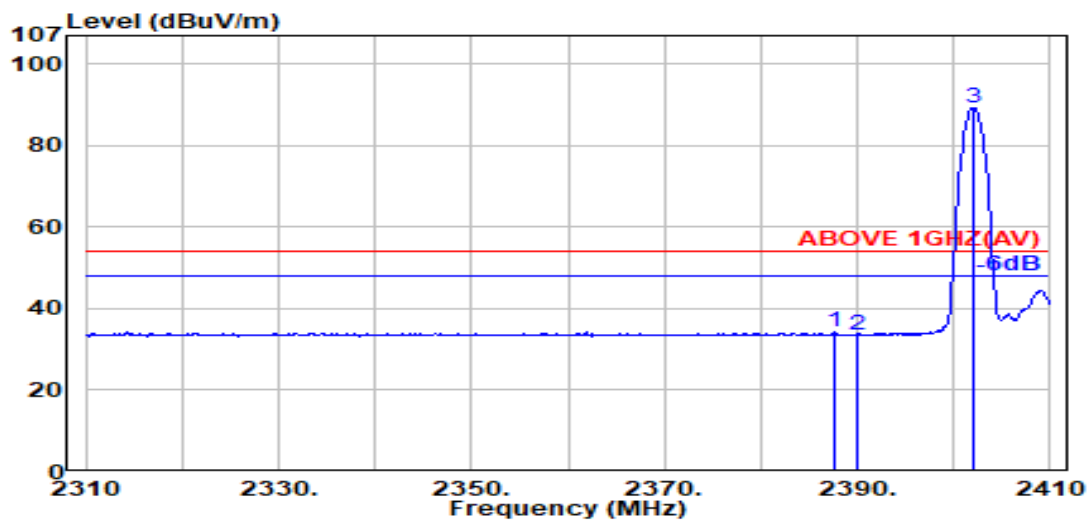
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2372.100	28.21	5.70	39.88	52.49	46.53	74.00	27.47	Peak
2390.000	28.14	5.72	39.88	50.79	44.77	74.00	29.23	Peak
@ 2402.100	28.11	5.74	39.88	98.52	92.49	---	---	Peak



Antenna at Horizontal Polarization

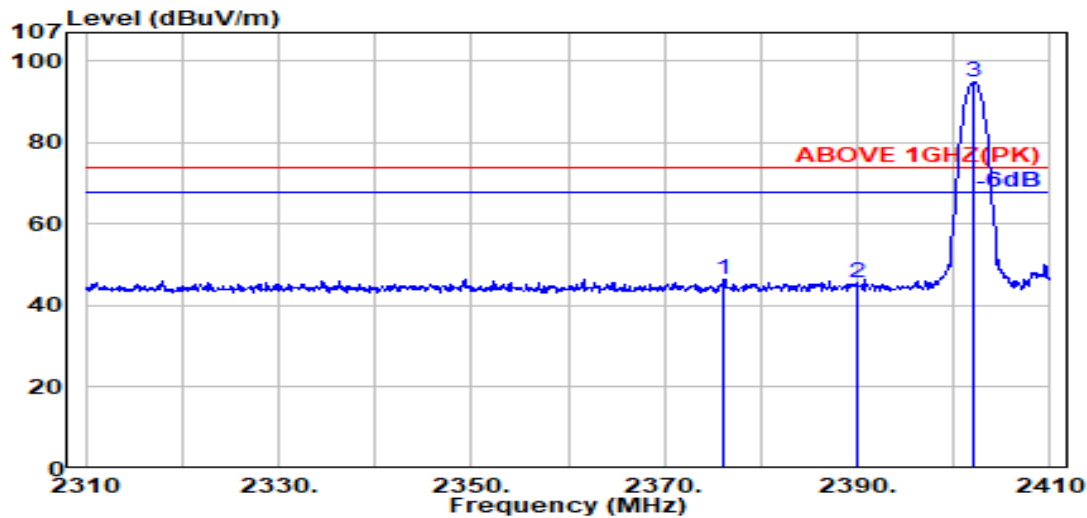
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2387.700	28.15	5.72	39.88	40.22	34.21	54.00	19.79	Average
2390.000	28.14	5.72	39.88	39.66	33.64	54.00	20.36	Average
@ 2402.000	28.11	5.74	39.88	95.27	89.24	---	---	Average

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

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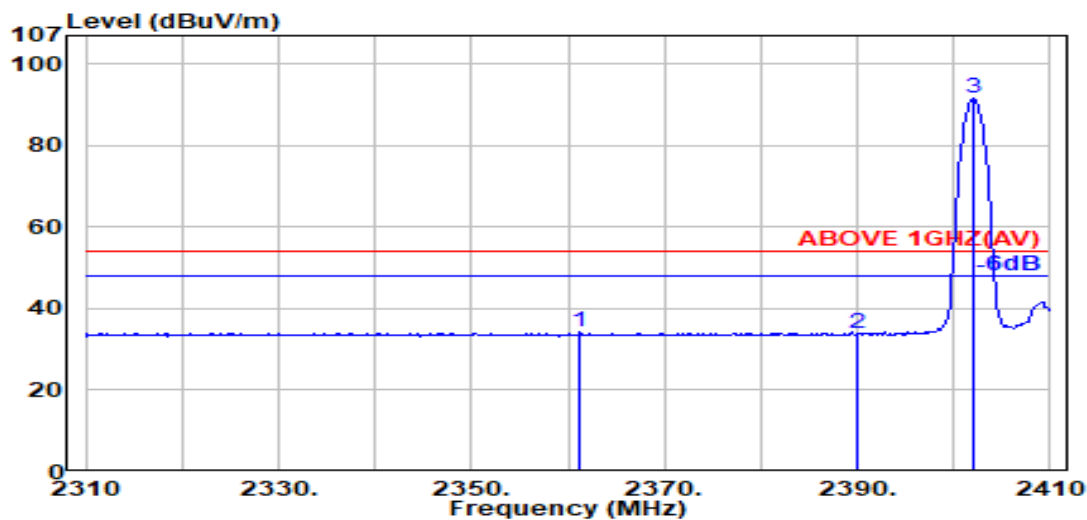
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Fax: +886 2 26099303

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
2376.200	28.19	5.70	39.88	52.54	46.56	74.00	27.44	Peak
2390.000	28.14	5.72	39.88	51.60	45.58	74.00	28.42	Peak
@ 2402.100	28.11	5.74	39.88	100.77	94.73	---	---	Peak



Antenna at Vertical Polarization

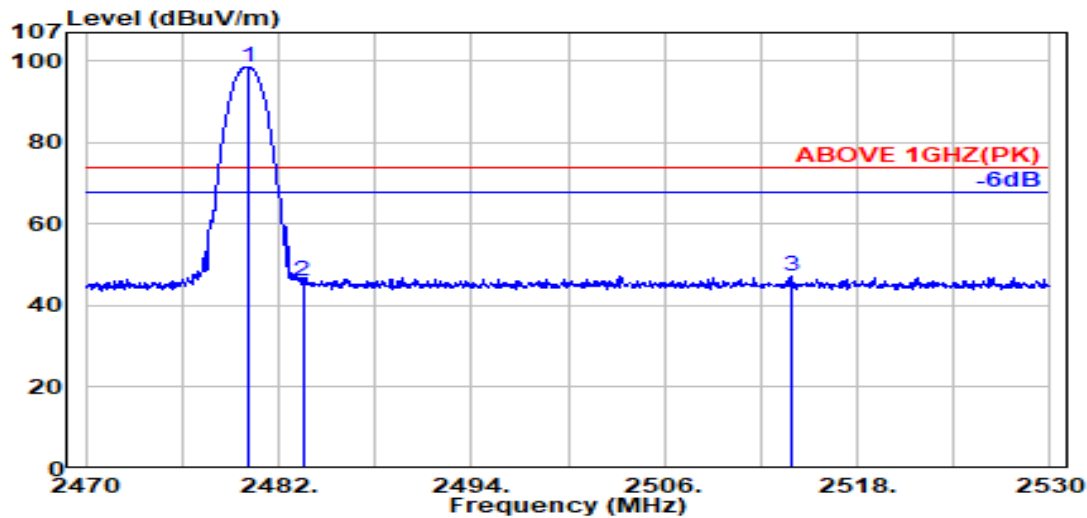
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2361.200	28.25	5.69	39.88	40.18	34.24	54.00	19.76	Average
2390.000	28.14	5.72	39.88	39.83	33.82	54.00	20.18	Average
@ 2402.000	28.11	5.74	39.88	97.51	91.48	---	---	Average

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

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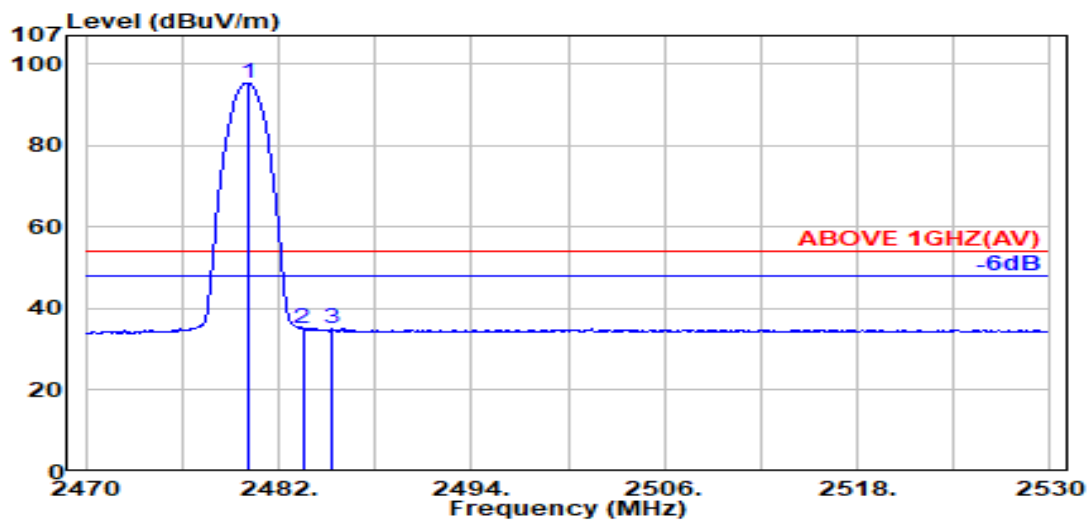
Tel: +886 2 26099301
Fax: +886 2 26099303

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	104.37	98.69	---	---	Peak
2483.500	28.37	5.83	39.87	51.71	46.03	74.00	27.97	Peak
2513.850	28.48	5.87	39.87	52.96	47.43	74.00	26.57	Peak



Antenna at Horizontal Polarization

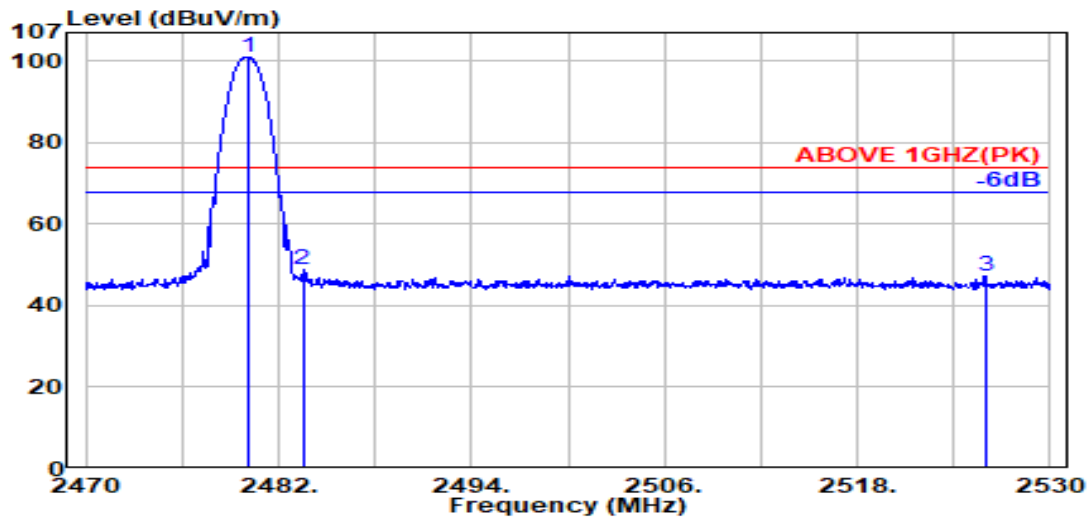
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.100	28.36	5.83	39.87	101.04	95.36	---	---	Average
2483.500	28.37	5.83	39.87	40.79	35.11	54.00	18.89	Average
2485.300	28.37	5.83	39.87	40.69	35.02	54.00	18.98	Average

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

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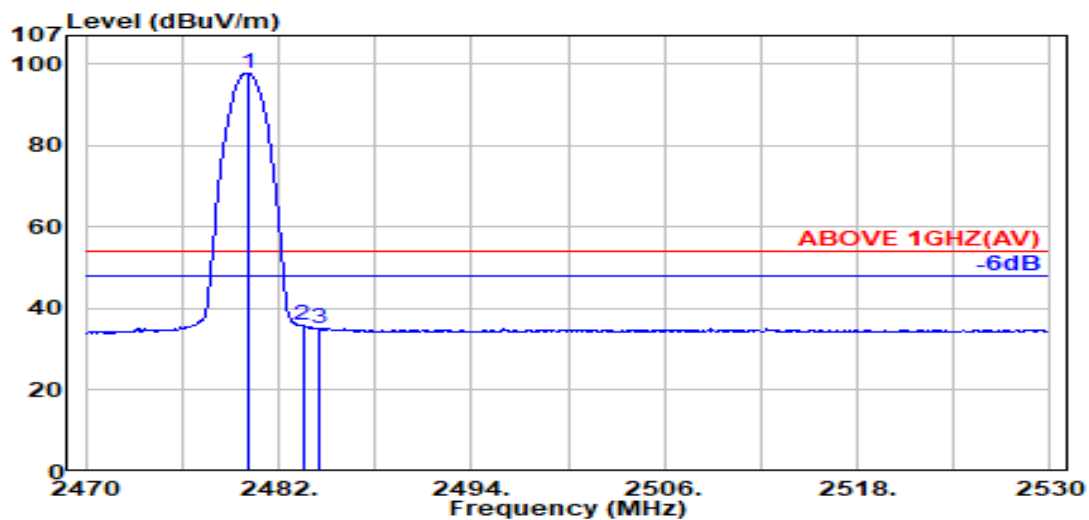
Tel: +886 2 26099301
Fax: +886 2 26099303

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
@ 2480.050	28.36	5.83	39.87	106.80	101.12	---	---	Peak
2483.500	28.37	5.83	39.87	54.50	48.83	74.00	25.17	Peak
2525.950	28.56	5.88	39.88	52.82	47.37	74.00	26.63	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	103.43	97.75	---	---	Average
2483.500	28.37	5.83	39.87	41.54	35.86	54.00	18.14	Average
2484.550	28.37	5.83	39.87	40.81	35.14	54.00	18.86	Average

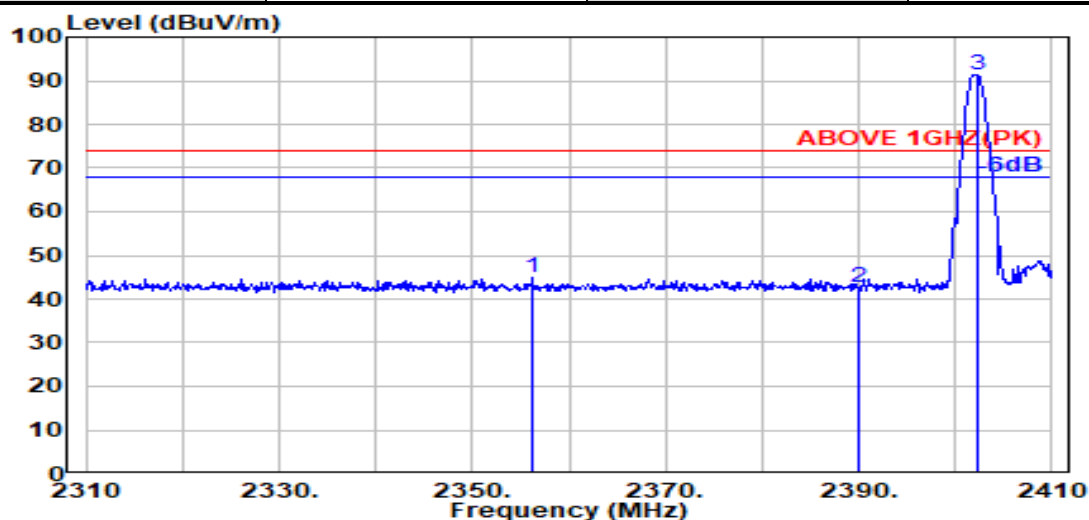
Remark: The “@” means fundamental frequency, it is ignored in this section.

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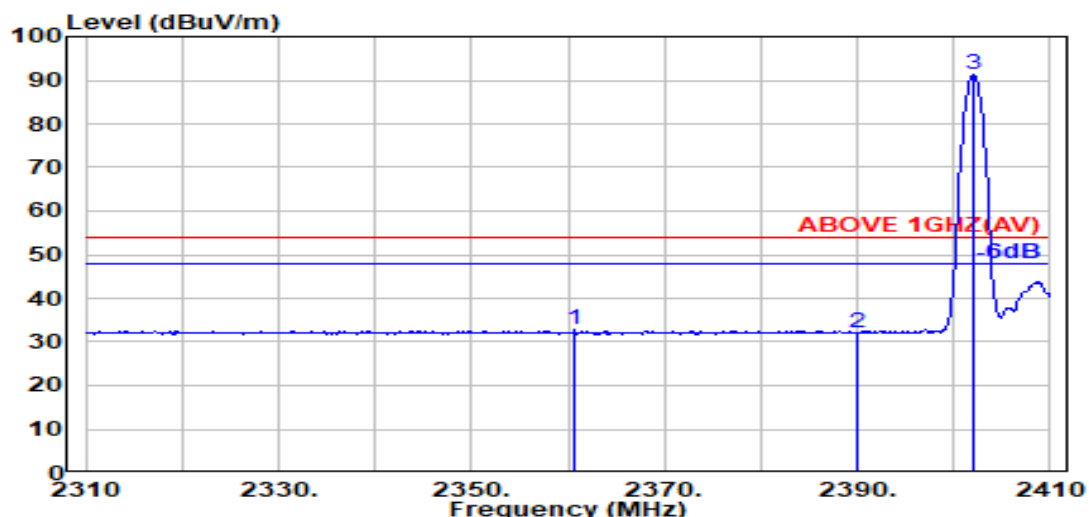
Antenna: LUXSHARE-ICT

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2356.200	28.45	5.99	34.49	44.92	44.86	74.00	29.14	Peak
2390.000	28.18	6.03	34.50	42.90	42.62	74.00	31.38	Peak
@ 2402.200	28.11	6.05	34.50	91.71	91.38	---	---	Peak



Antenna at Horizontal Polarization

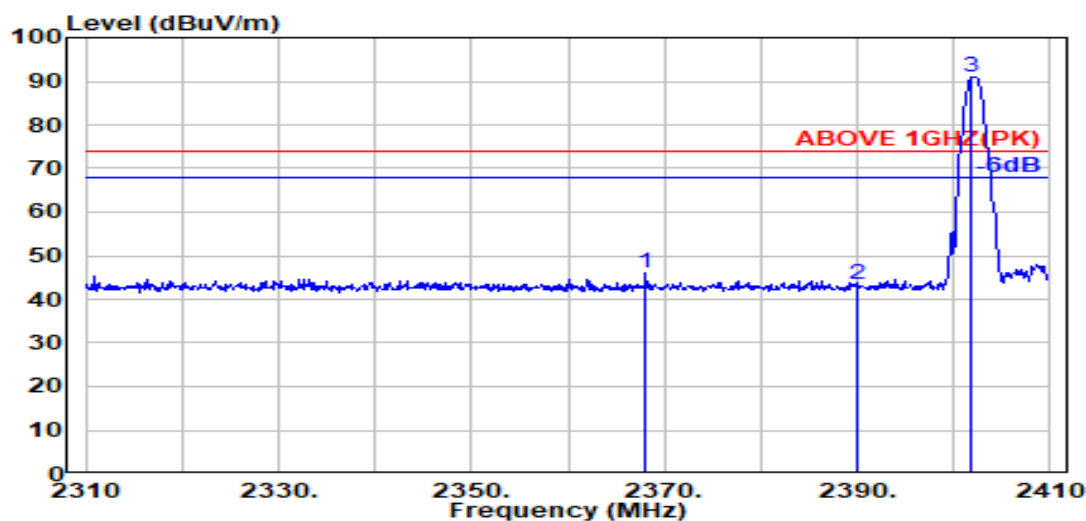
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2360.700	28.41	5.99	34.49	32.77	32.68	54.00	21.32	Average
2390.000	28.18	6.03	34.50	32.39	32.10	54.00	21.90	Average
@ 2402.100	28.11	6.05	34.50	91.54	91.20	---	---	Average

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

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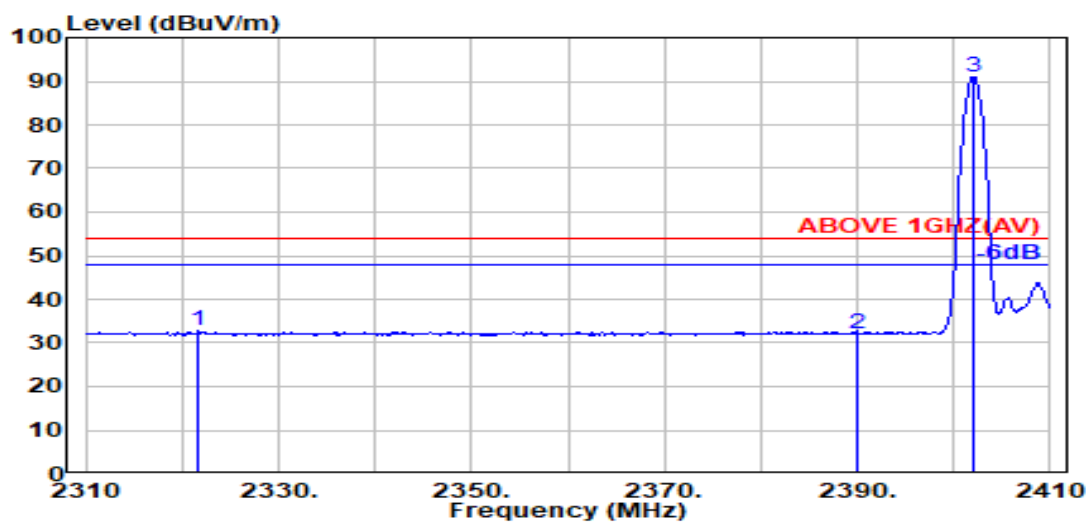
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Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2368.100	28.35	6.00	34.49	46.09	45.95	74.00	28.05	Peak
2390.000	28.18	6.03	34.50	43.75	43.47	74.00	30.53	Peak
@ 2401.900	28.11	6.05	34.50	91.43	91.10	---	---	Peak

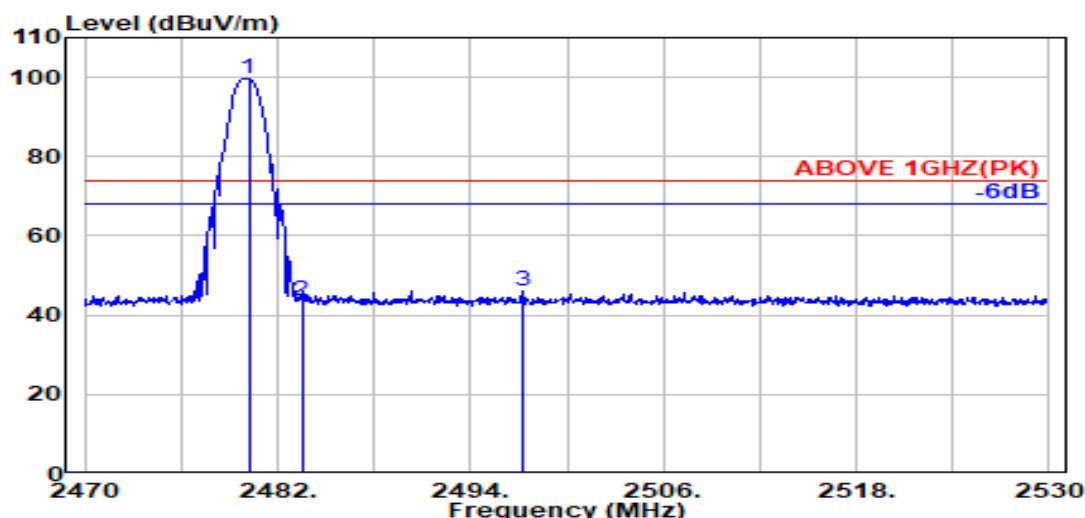


Antenna at Vertical Polarization

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
2321.600	28.27	5.93	34.48	32.94	32.66	54.00	21.34	Average
2390.000	28.18	6.03	34.50	32.45	32.17	54.00	21.83	Average
@ 2402.100	28.11	6.05	34.50	91.30	90.96	---	---	Average

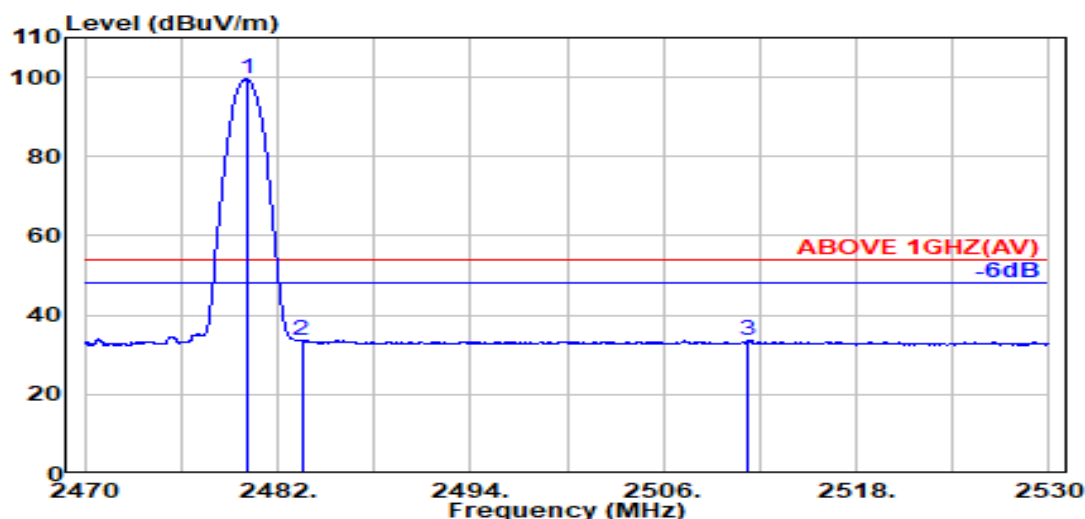
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.200	28.46	6.16	34.52	99.52	99.63	---	---	Peak
2483.500	28.47	6.17	34.52	43.58	43.69	74.00	30.31	Peak
2497.200	28.49	6.19	34.52	45.93	46.09	74.00	27.91	Peak



Antenna at Horizontal Polarization

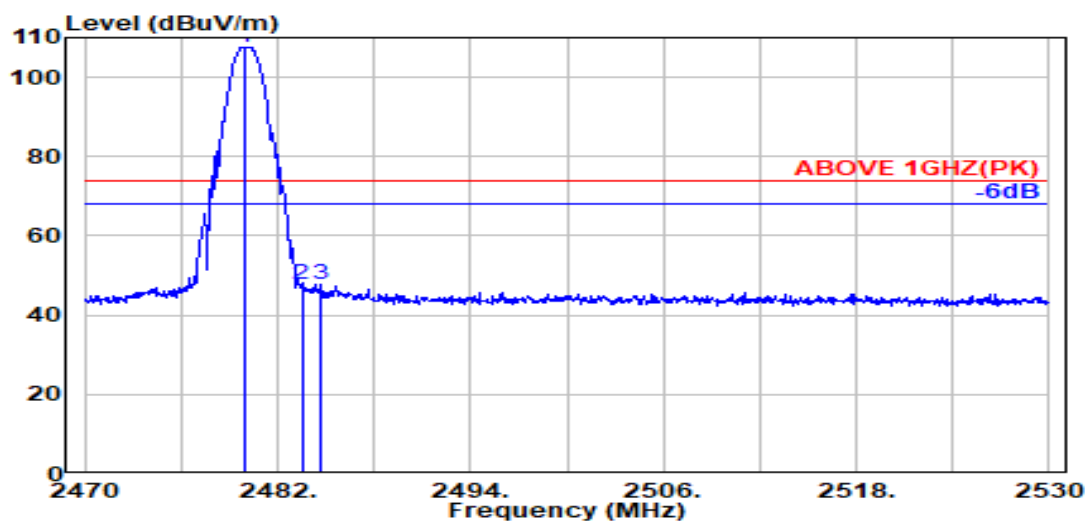
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.46	6.16	34.52	99.39	99.50	---	---	Average
2483.500	28.47	6.17	34.52	33.34	33.46	54.00	20.54	Average
2511.250	28.57	6.20	34.52	33.36	33.61	54.00	20.39	Average

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

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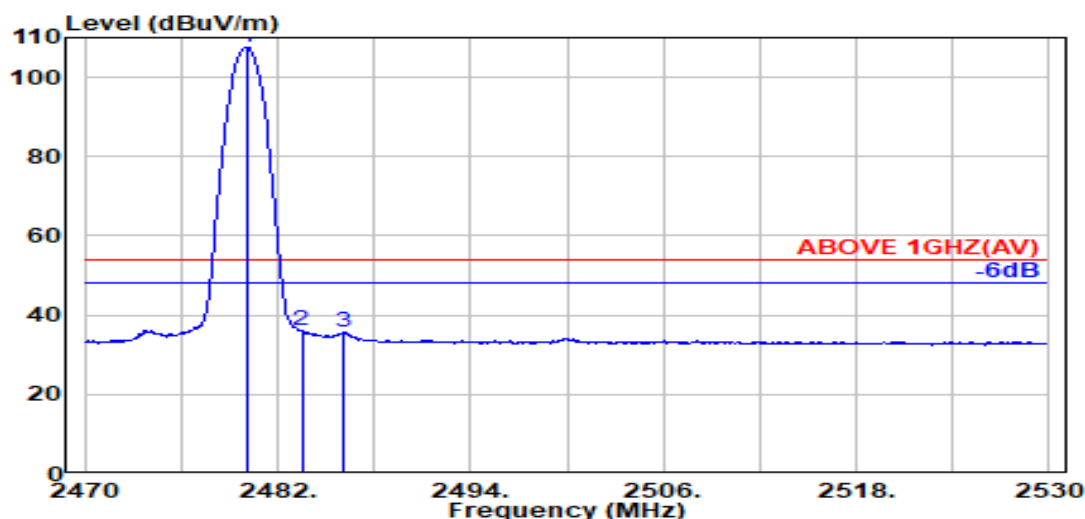
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

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
@ 2479.900	28.46	6.16	34.52	107.57	107.67	---	---	Peak
2483.500	28.47	6.17	34.52	47.56	47.68	74.00	26.32	Peak
2484.650	28.47	6.17	34.52	47.67	47.80	74.00	26.20	Peak



Antenna at Vertical Polarization

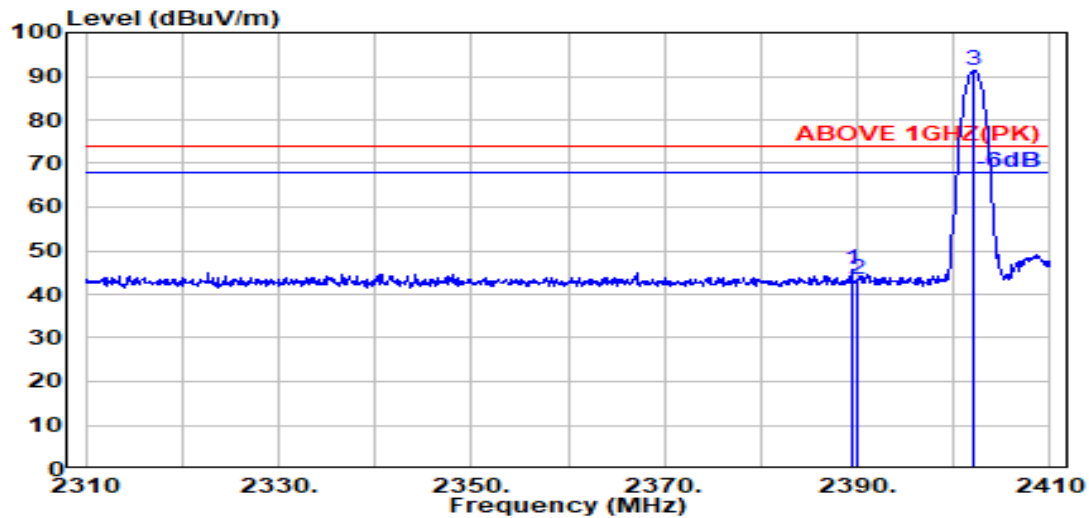
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.46	6.16	34.52	107.43	107.53	---	---	Average
2483.500	28.47	6.17	34.52	35.90	36.02	54.00	17.98	Average
2486.100	28.47	6.17	34.52	35.59	35.71	54.00	18.29	Average

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

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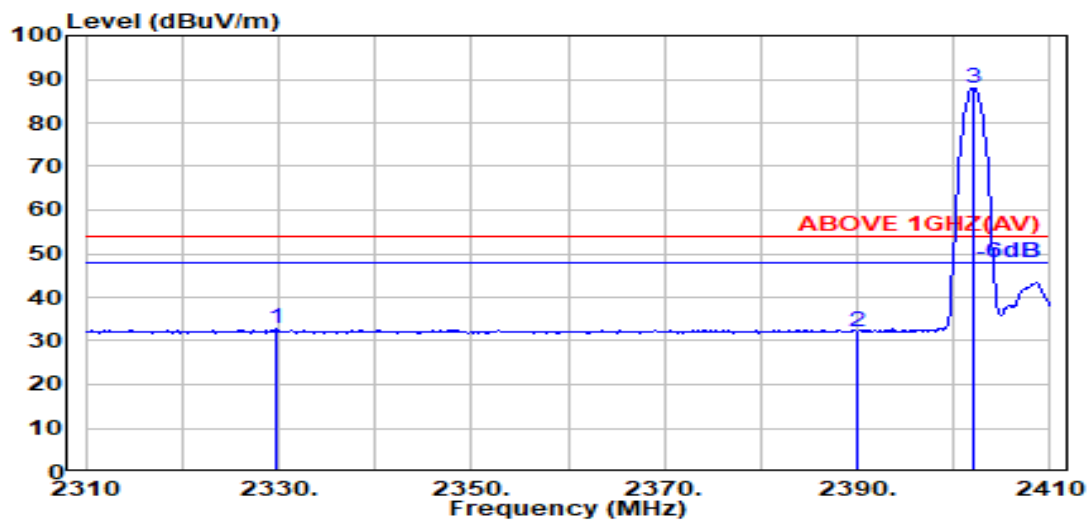
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.400	28.18	6.03	34.50	45.76	45.48	74.00	28.52	Peak
2390.000	28.18	6.03	34.50	43.85	43.56	74.00	30.44	Peak
@ 2402.100	28.11	6.05	34.50	91.73	91.39	---	---	Peak



Antenna at Horizontal Polarization

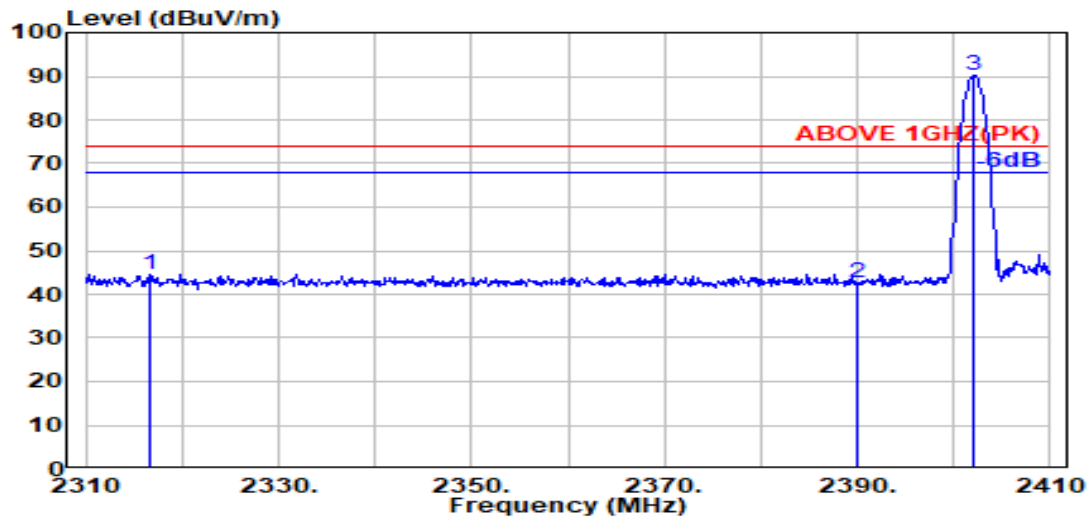
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2329.800	28.34	5.95	34.49	32.87	32.67	54.00	21.33	Average
2390.000	28.18	6.03	34.50	32.35	32.06	54.00	21.94	Average
@ 2402.100	28.11	6.05	34.50	88.39	88.05	---	---	Average

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

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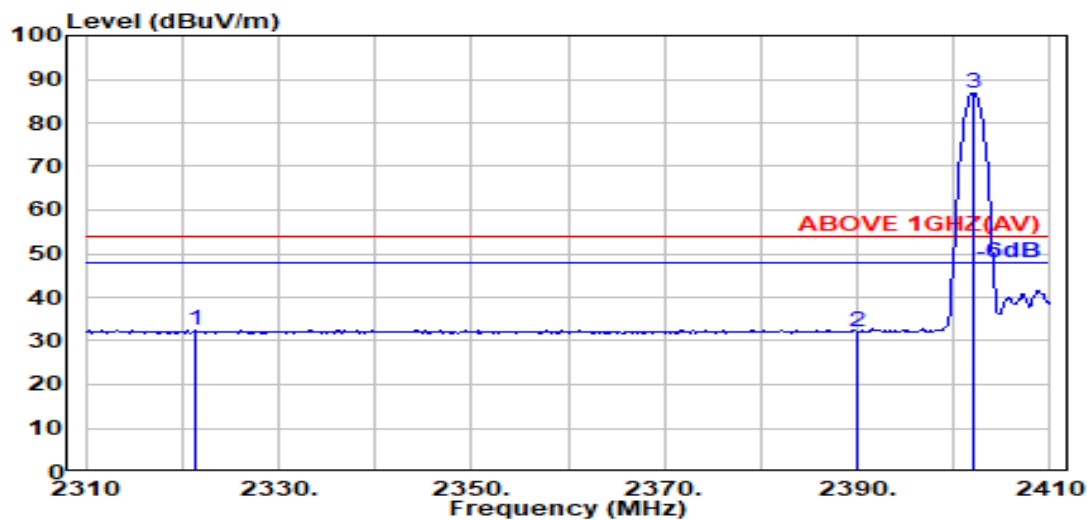
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2316.600	28.23	5.93	34.48	44.97	44.65	74.00	29.35	Peak
2390.000	28.18	6.03	34.50	42.78	42.50	74.00	31.50	Peak
@ 2402.100	28.11	6.05	34.50	90.47	90.14	---	---	Peak



Antenna at Vertical Polarization

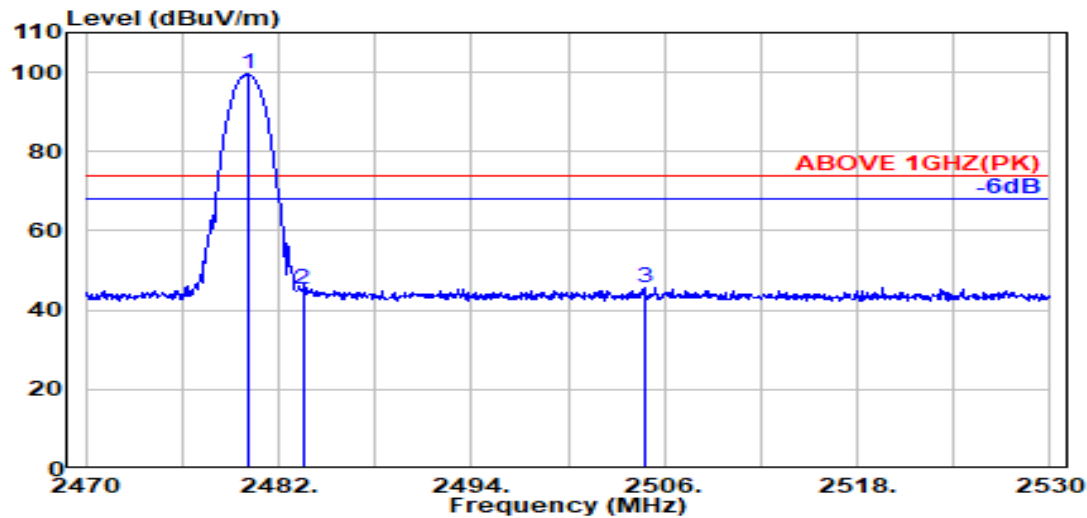
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2321.400	28.27	5.93	34.48	32.88	32.61	54.00	21.39	Average
2390.000	28.18	6.03	34.50	32.38	32.10	54.00	21.90	Average
@ 2402.000	28.11	6.05	34.50	87.15	86.82	---	---	Average

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

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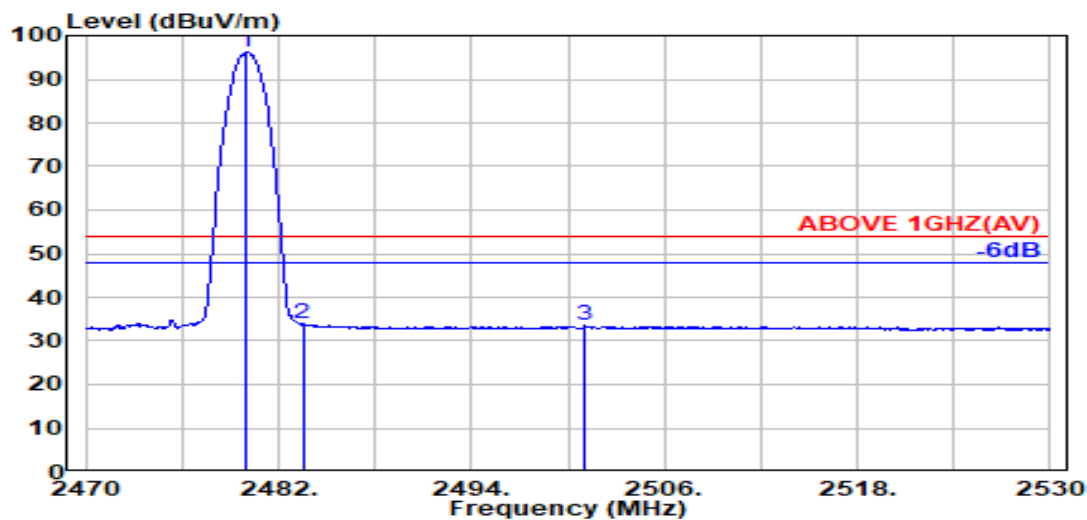
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.050	28.46	6.16	34.52	99.36	99.47	---	---	Peak
2483.500	28.47	6.17	34.52	44.95	45.07	74.00	28.93	Peak
2504.750	28.53	6.20	34.52	45.48	45.69	74.00	28.31	Peak



Antenna at Horizontal Polarization

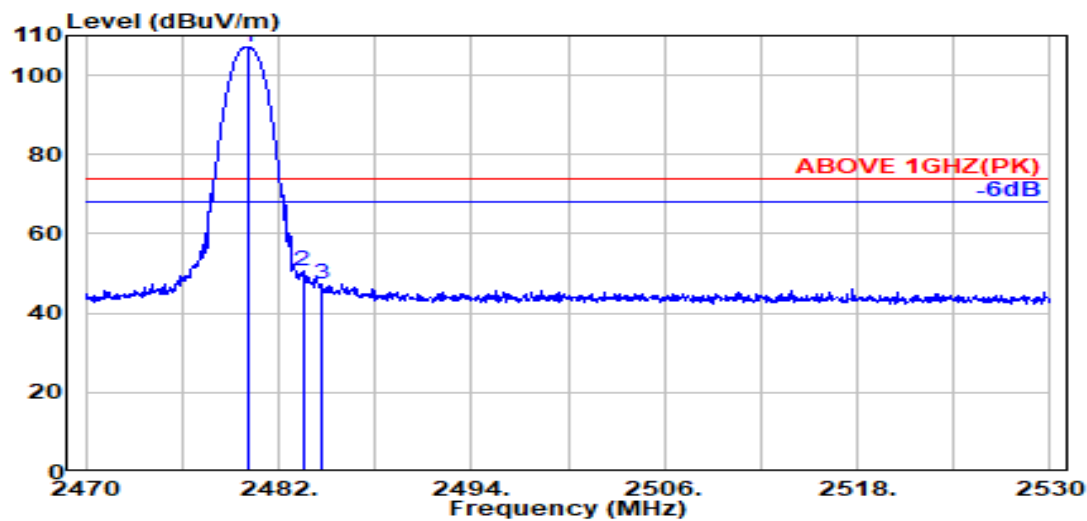
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.000	28.46	6.16	34.52	96.00	96.11	---	---	Average
2483.500	28.47	6.17	34.52	33.69	33.81	54.00	20.19	Average
2501.000	28.51	6.19	34.52	33.26	33.44	54.00	20.56	Average

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

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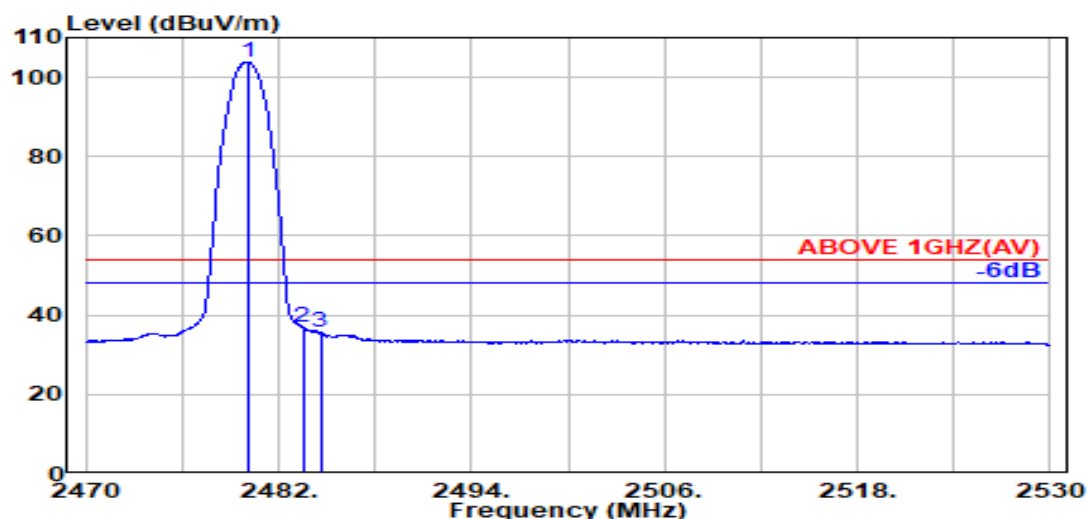
Tel: +886 2 26099301
Fax: +886 2 26099303

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 (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.050	28.46	6.16	34.52	107.14	107.25	---	---	Peak
2483.500	28.47	6.17	34.52	50.39	50.50	74.00	23.50	Peak
2484.700	28.47	6.17	34.52	47.30	47.42	74.00	26.58	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.050	28.46	6.16	34.52	103.79	103.89	---	---	Average
2483.500	28.47	6.17	34.52	36.90	37.02	54.00	16.98	Average
2484.600	28.47	6.17	34.52	35.38	35.50	54.00	18.50	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.

Antenna: INPAQ

Mode	BT (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	33.01	8.32	34.38	34.79	41.74	54.00	12.26	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	33.01	8.32	34.38	35.28	42.24	54.00	11.76	Peak

Mode	BT (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	33.23	8.38	34.36	35.09	42.33	54.00	11.67	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	33.23	8.38	34.36	35.55	42.79	54.00	11.21	Peak

Mode	BT (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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.42	34.34	34.88	42.36	54.00	11.64	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.42	34.34	35.43	42.92	54.00	11.08	Peak

Antenna: LUXSHARE-ICT

Mode	BT (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	33.01	8.32	34.38	36.14	43.10	54.00	10.90	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	33.01	8.32	34.38	36.97	43.93	54.00	10.07	Peak

Mode	BT (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	33.23	8.38	34.36	35.04	42.29	54.00	11.71	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	33.23	8.38	34.36	33.97	41.22	54.00	12.78	Peak

Mode	BT (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	33.40	8.42	34.34	34.91	42.39	54.00	11.61	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	33.40	8.42	34.34	35.24	42.73	54.00	11.27	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	2024/12/04	Temp./Hum.	23°C/56%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 20dB Bandwidth Result

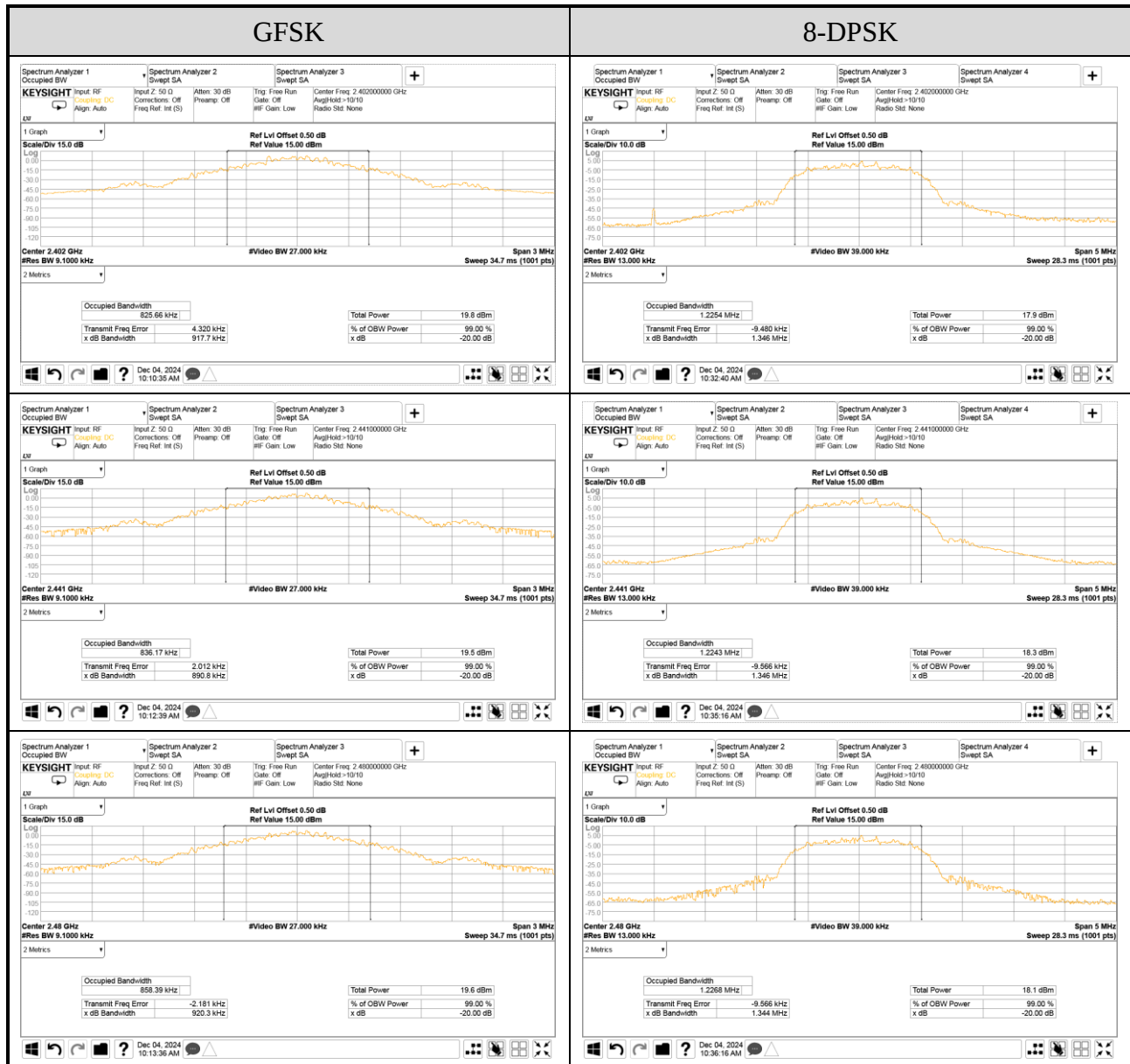
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9177	0.82566	0.612
	2441	0.8908	0.83617	0.594
	2480	0.9203	0.85839	0.614
8-DPSK	2402	1.346	1.2254	0.897
	2441	1.346	1.2243	0.897
	2480	1.344	1.2268	0.896

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

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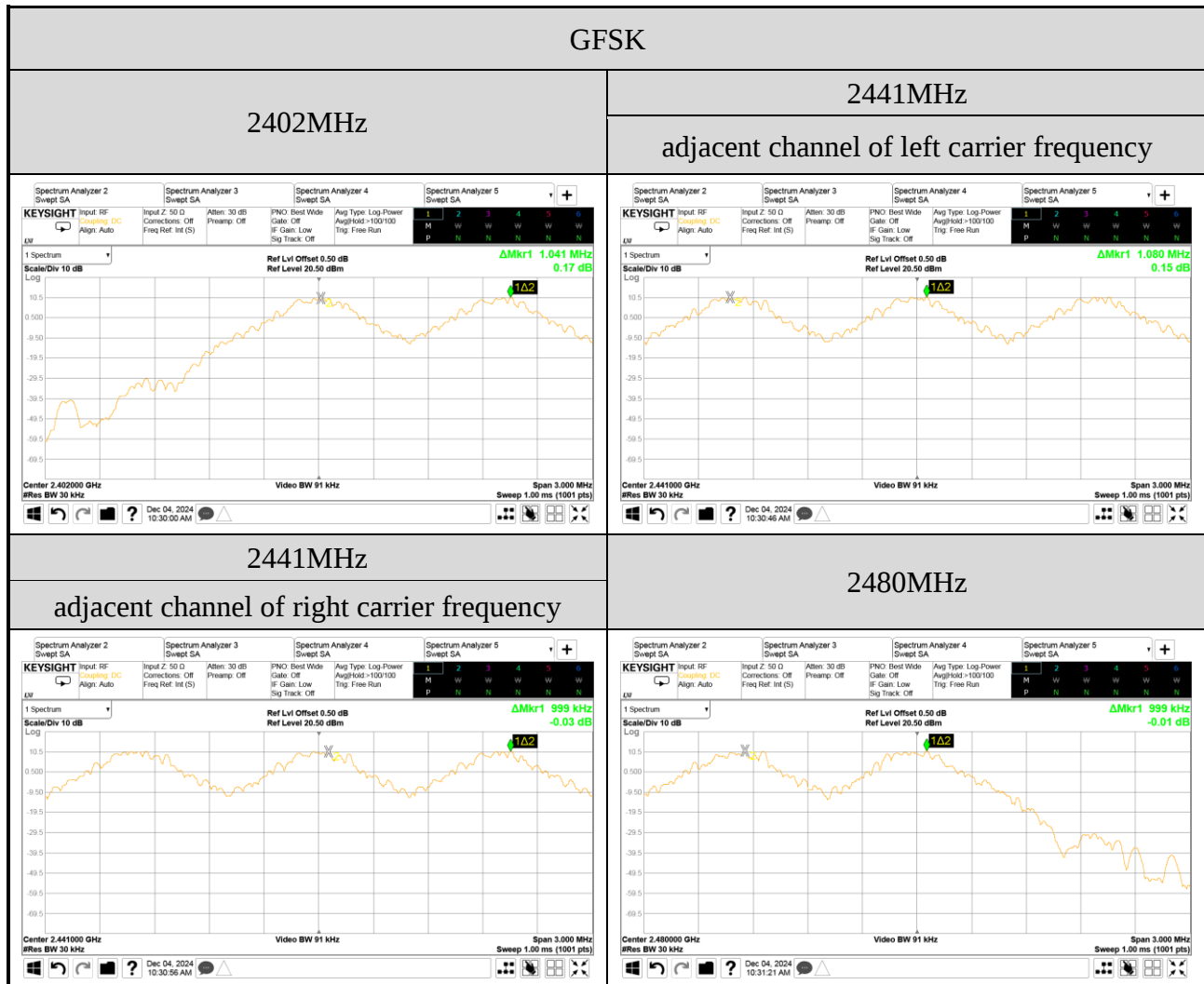
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Fax: +886 2 26099303

A.3.2 Measurement Plots



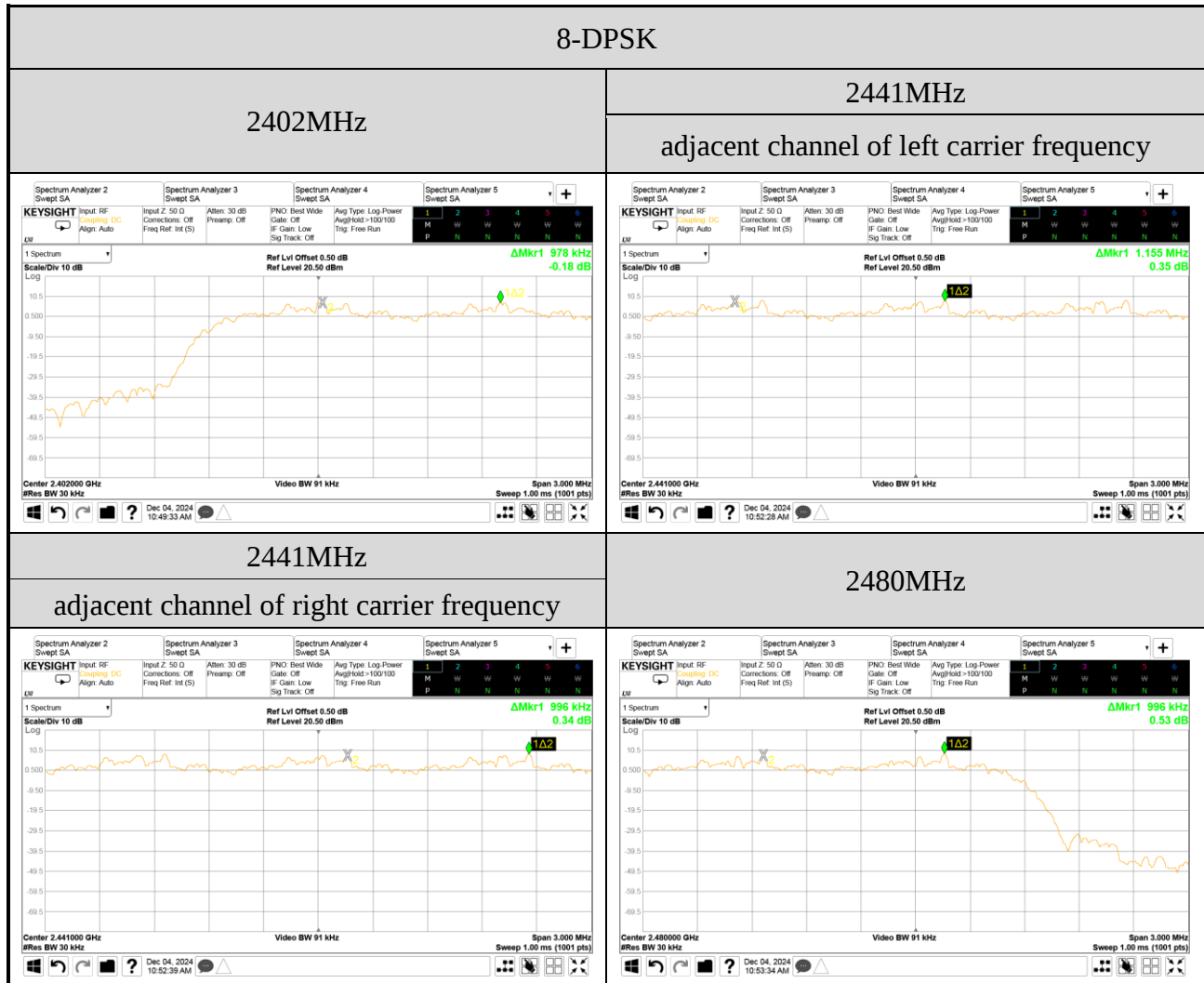
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2024/12/04	Temp./Hum.	23°C/56%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



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A.5 TIME OF OCCUPANCY

Test Date	2024/12/04	Temp./Hum.	23°C/56%
Cable Loss	0.5dB	Tested By	Harry Huang
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	1.630	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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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	2.870	272.076	<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)

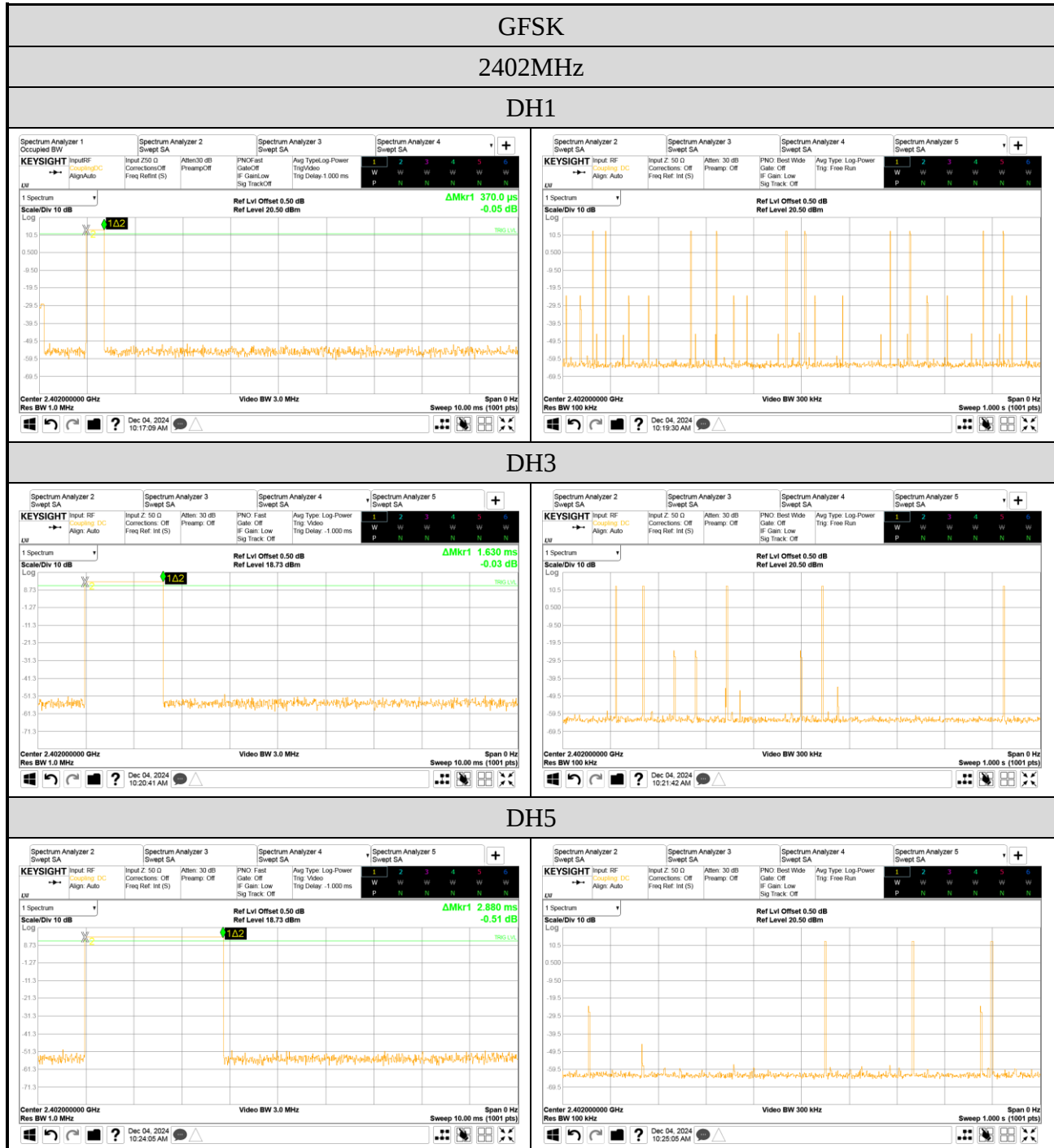
DH5 Mode

For each second of 3 transmission appearance,the longest time of occupancy is
3 transmission* 31.6 seconds* 2.870 ms= 272.076 ms (<400ms)

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● Measurement Plots



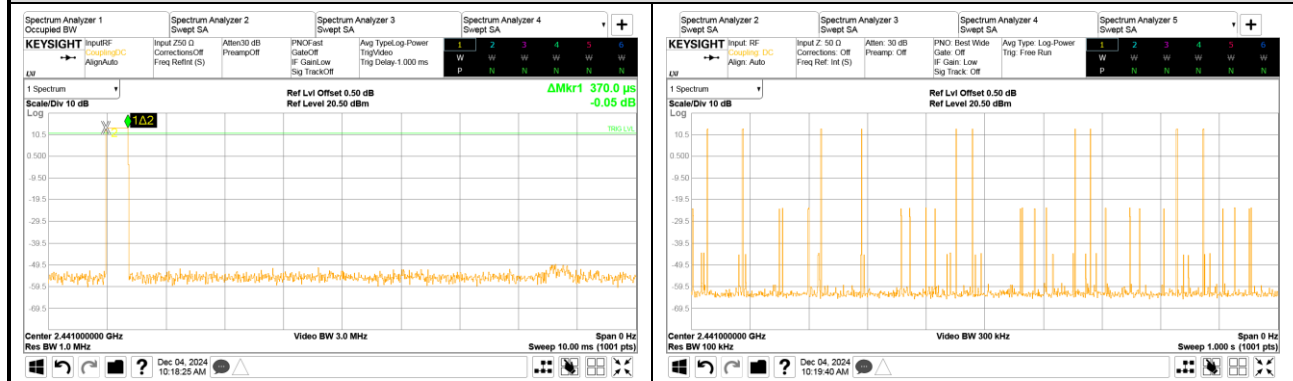
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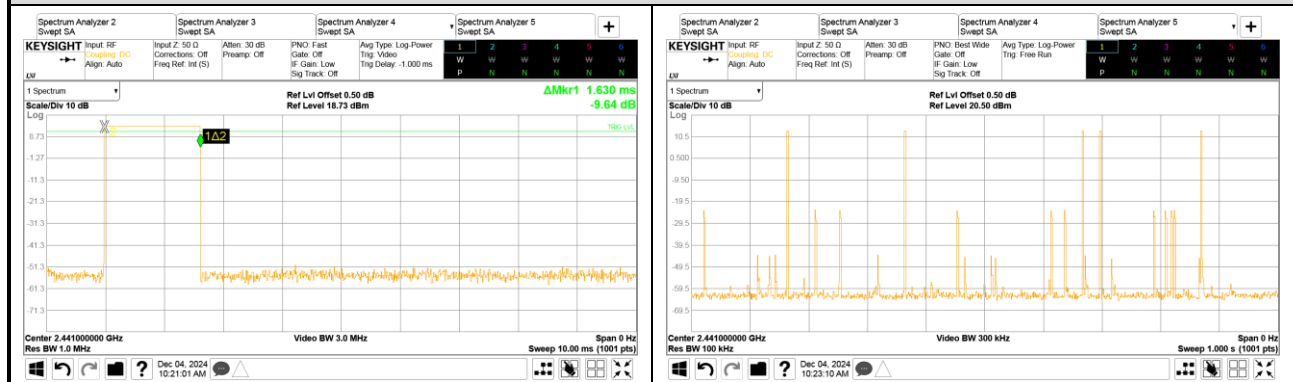
GFSK

2441MHz

DH1



DH3



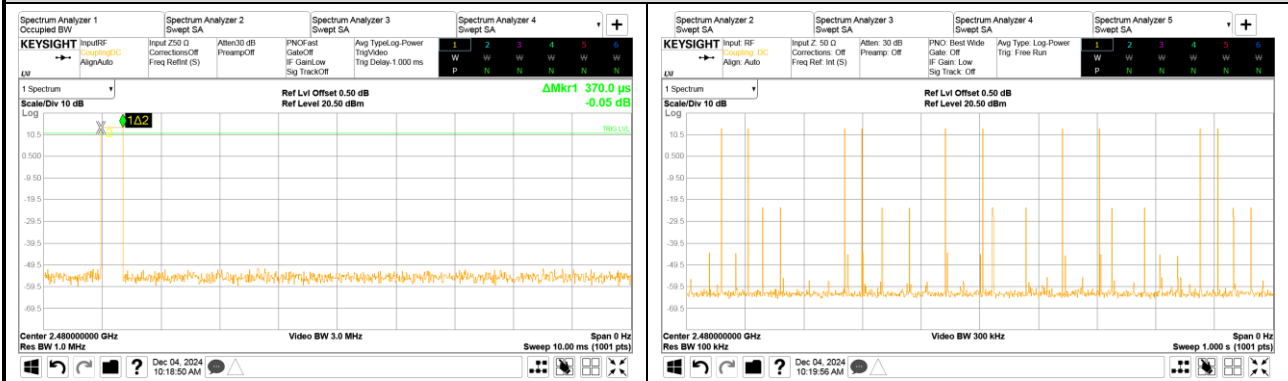
DH5



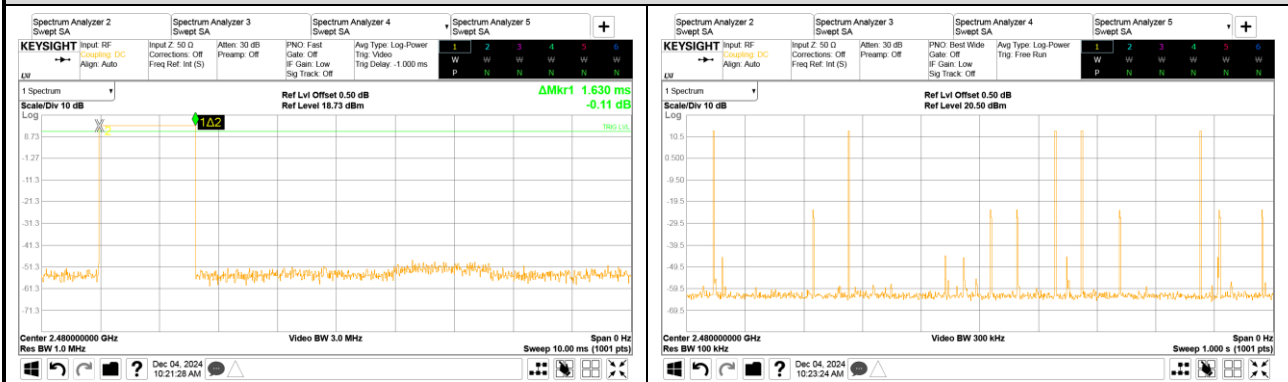
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2480MHz

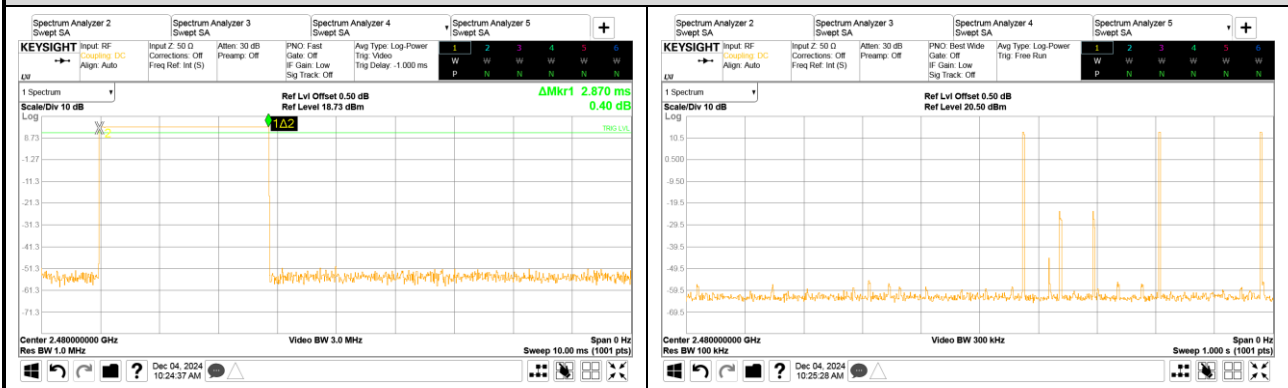
DH1



DH3



DH5



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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	2402	3DH1	10	0.380	120.080	<400
		3DH3	5	1.640	259.120	<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* 1.640 ms= 259.120 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)

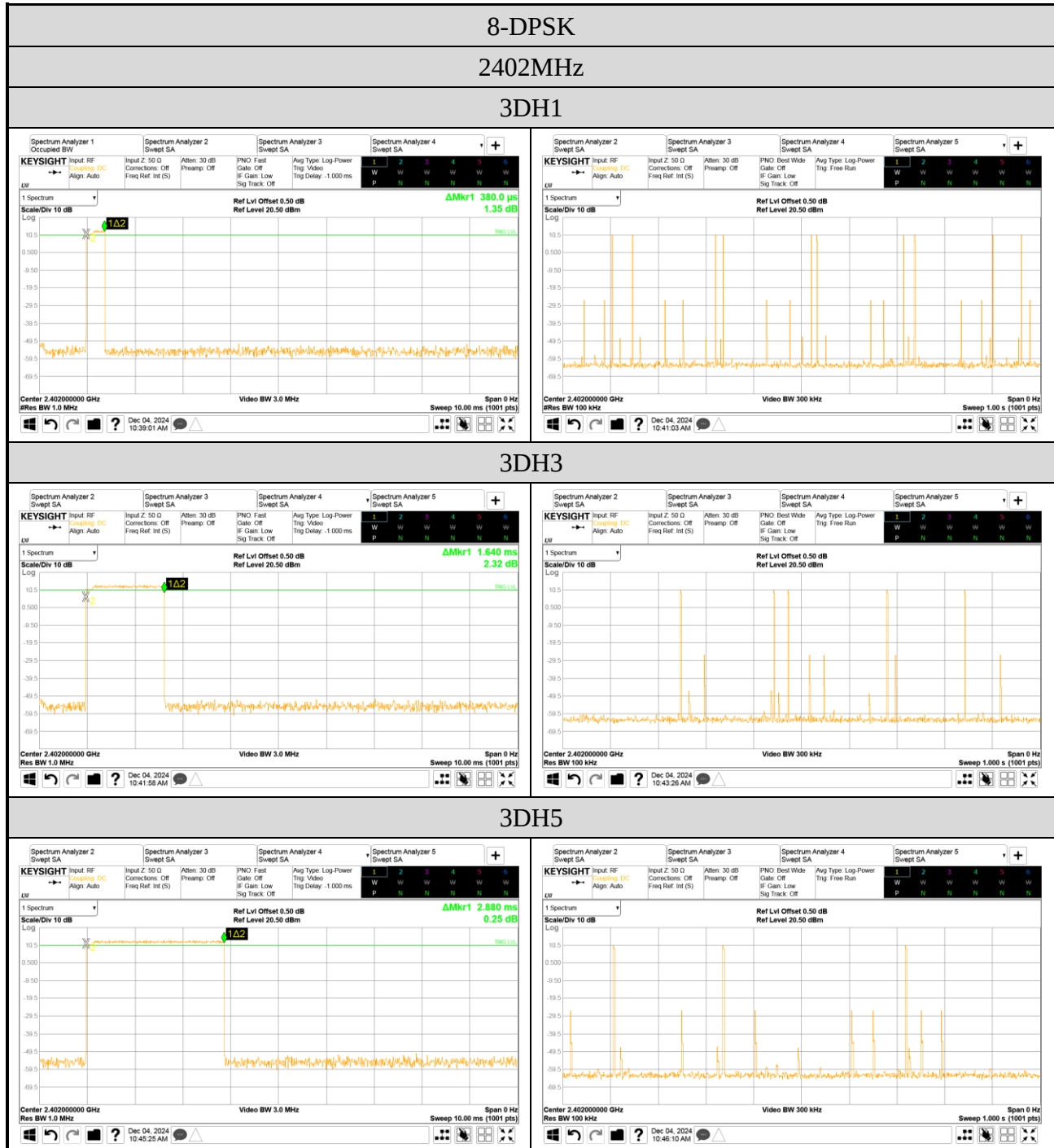
3DH5 Mode

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



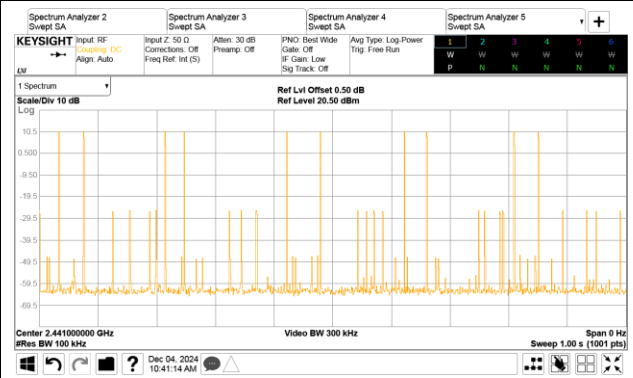
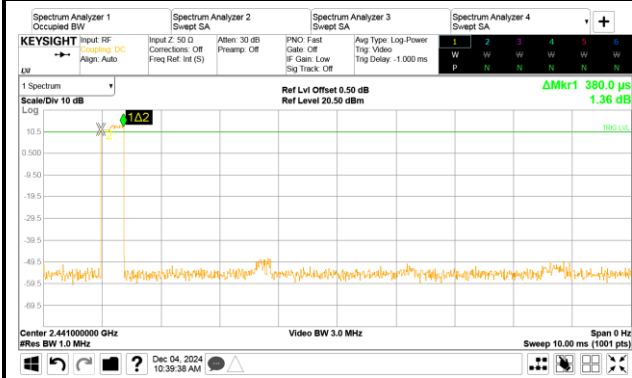
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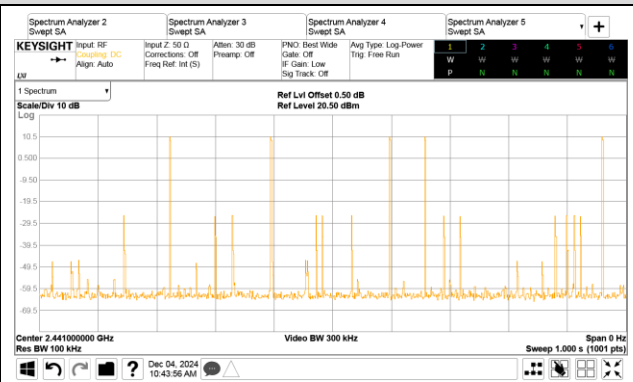
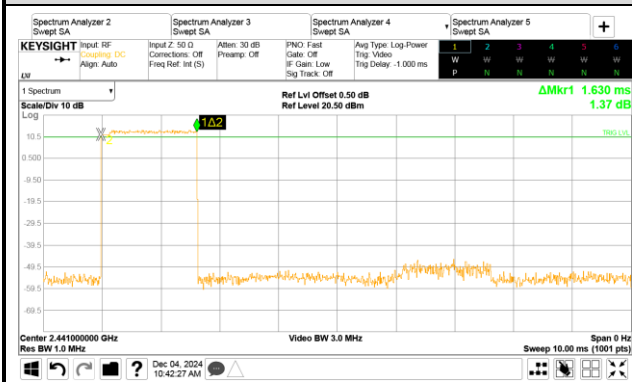
8-DPSK

2441MHz

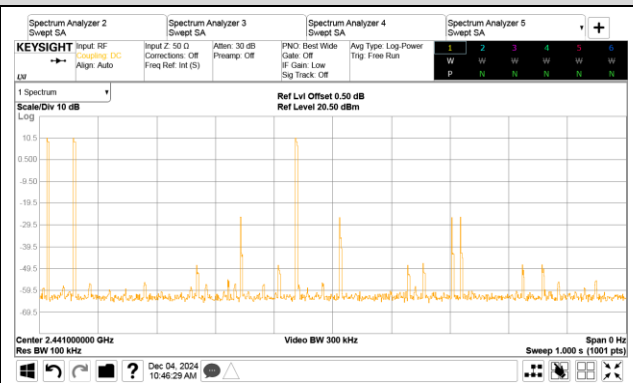
3DH1



3DH3



3DH5



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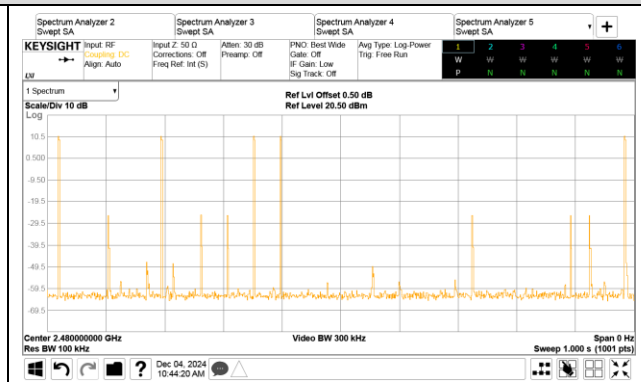
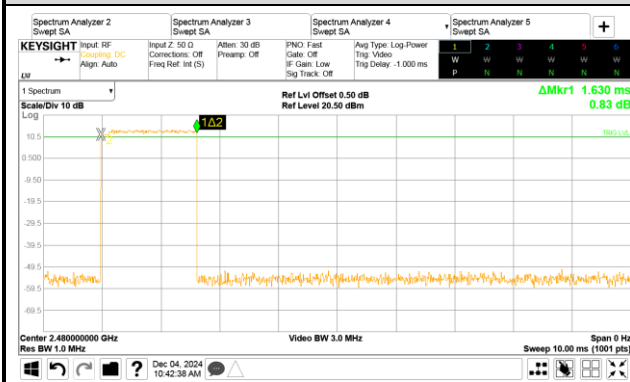
8-DPSK

2480MHz

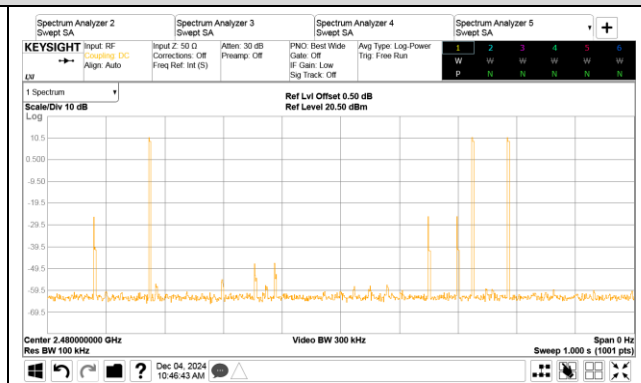
3DH1



3DH3



3DH5

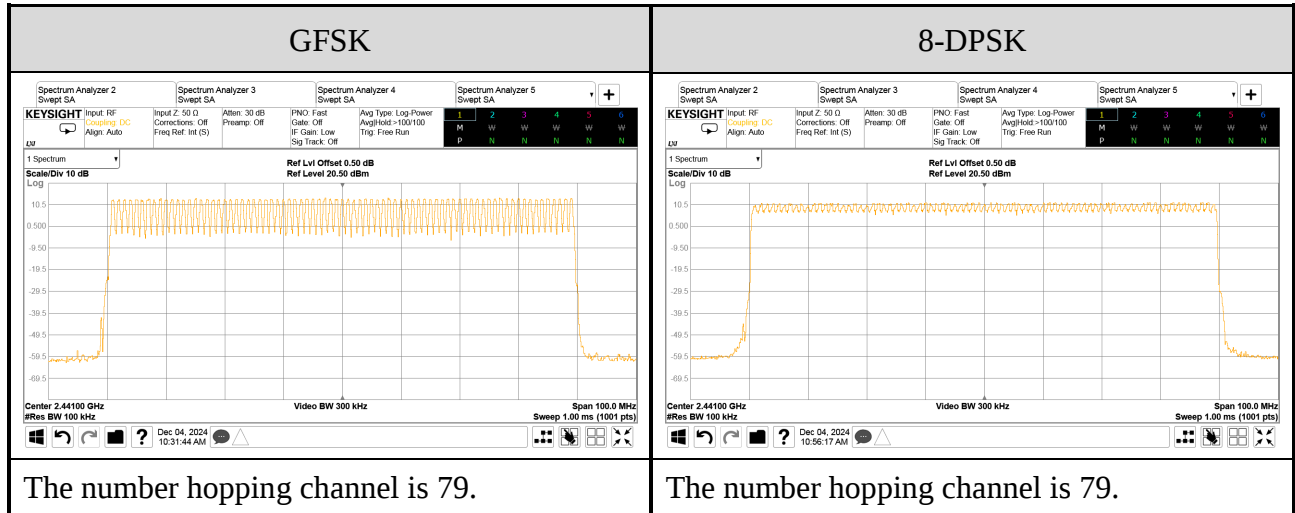


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2024/12/04	Temp./Hum.	23°C/56%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/11/29	Temp./Hum.	25°C/59%
Cable Loss	0.5dB	Tested By	Harry Huang
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	13.91	0.025	21dBm (0.125W)
	2441	13.95	0.025	
	2480	14.42	0.028	
8-DPSK	2402	13.97	0.025	
	2441	14.04	0.025	
	2480	14.16	0.026	

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	12.87	1.101	12.87	0.019	21dBm (0.125W)
	2441	12.93	1.101	12.93	0.020	
	2480	12.99	1.101	12.99	0.020	
8-DPSK	2402	10.37	1.096	11.47	0.014	
	2441	10.46	1.096	11.56	0.014	
	2480	10.76	1.096	11.86	0.015	

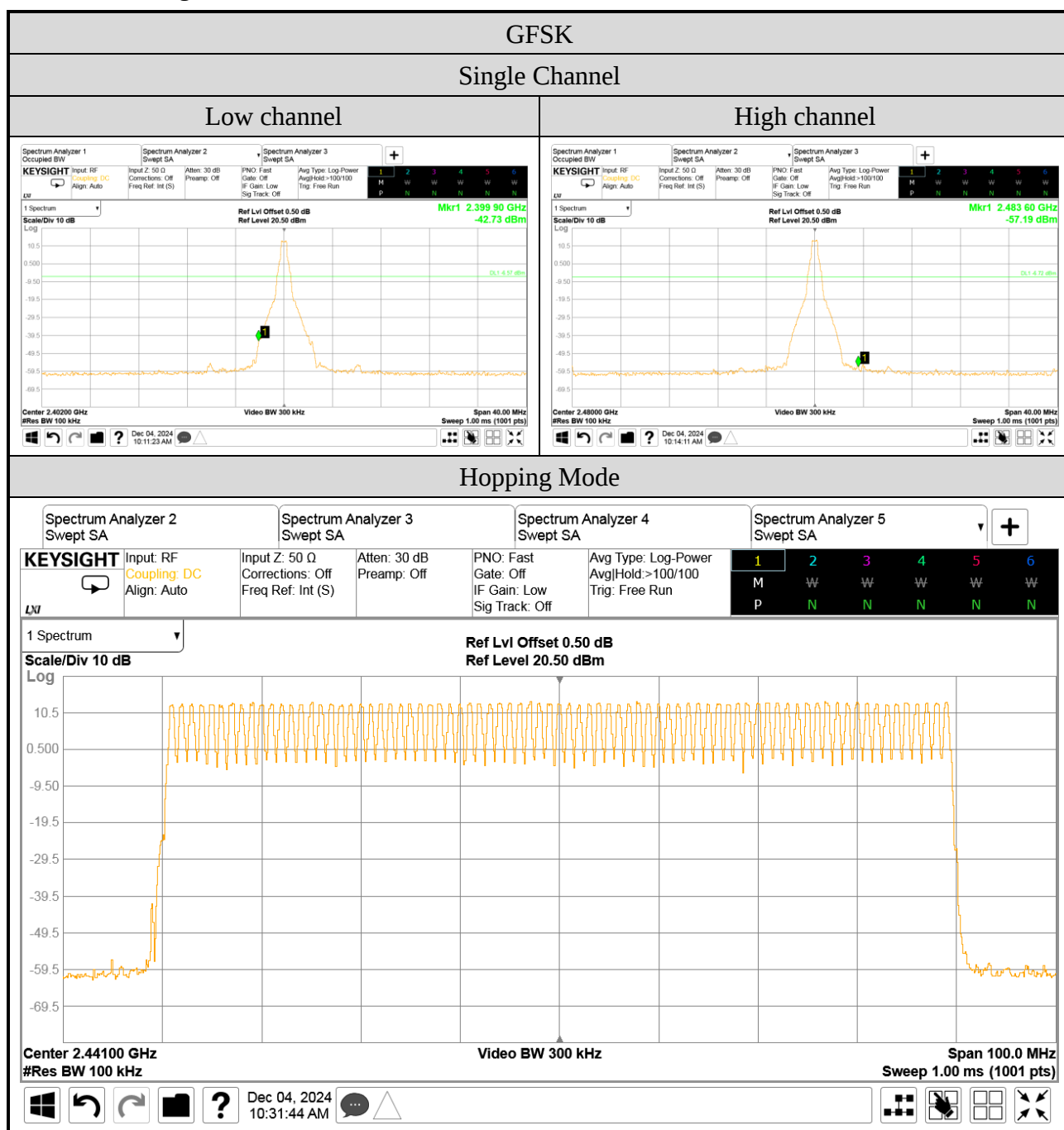
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A.8 EMISSION LIMITATIONS MEASUREMENT

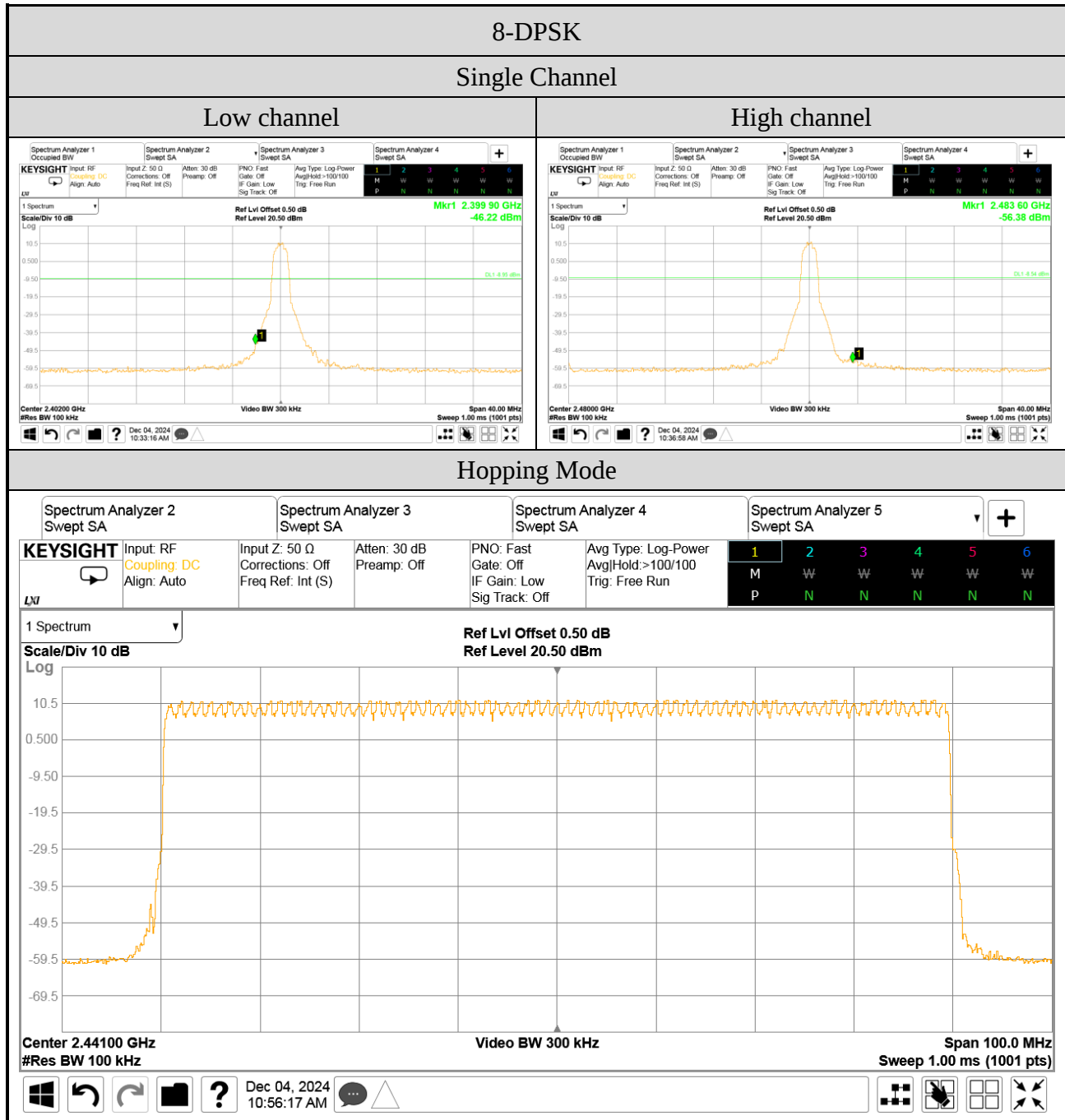
Test Date	2024/12/04	Temp./Hum.	23°C/56%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge



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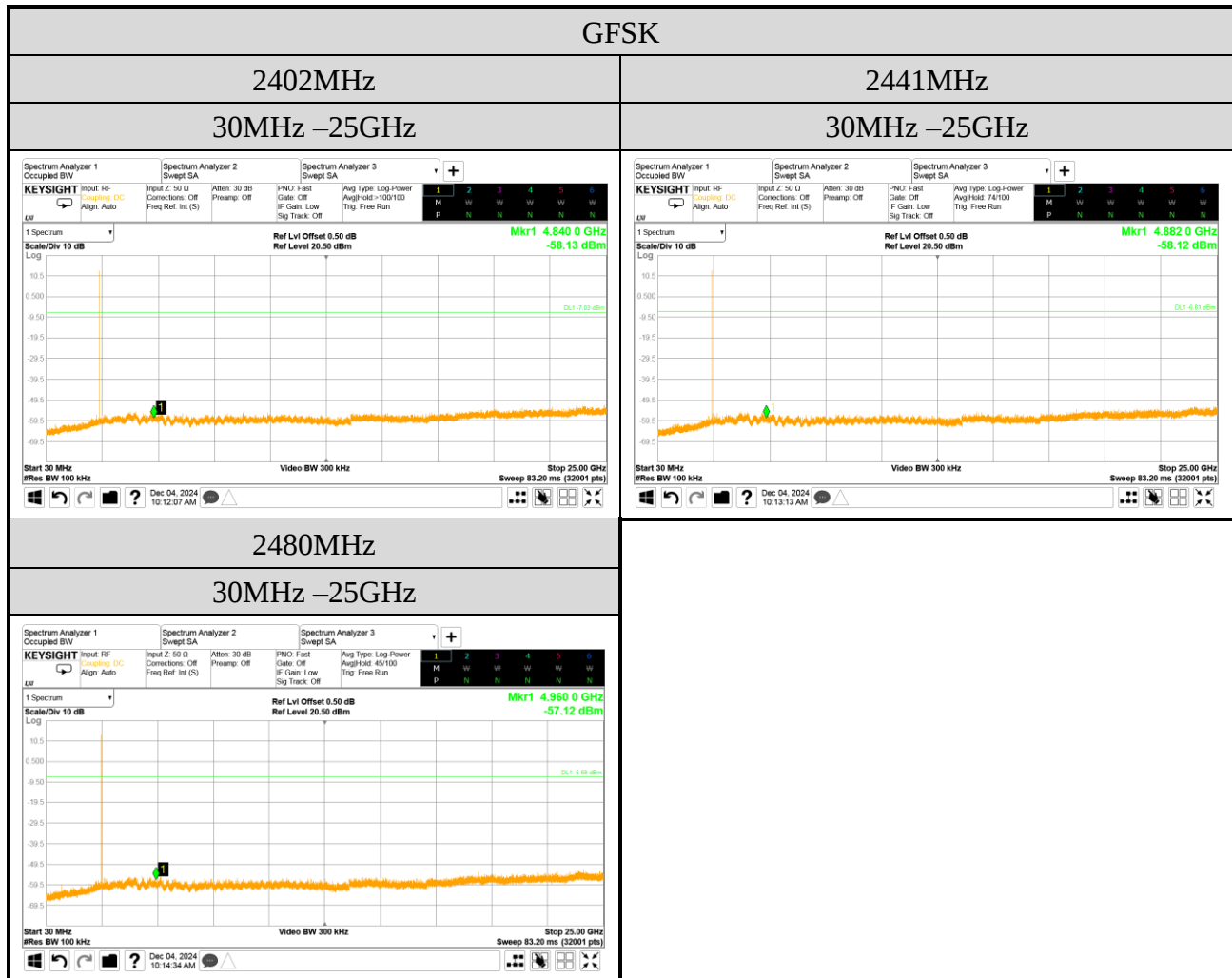
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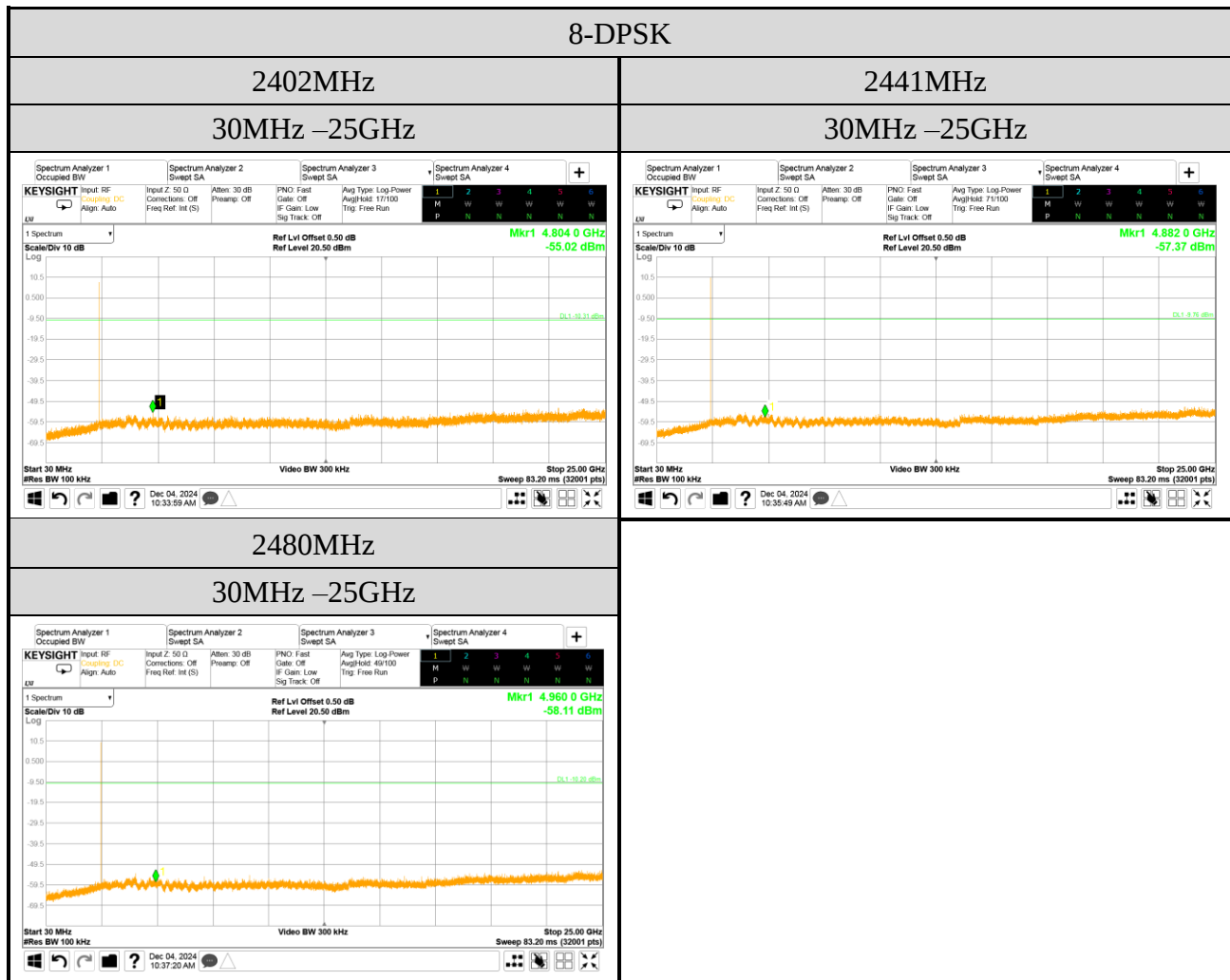
A.8.2 Spurious Emission



Note: All results have been included cable loss.

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Note: All results have been included cable loss.