

A.5 TIME OF OCCUPANCY

Test Date	2019/07/30~08/16	Temp./Hum.	23~24°C/52~55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)

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	9	0.400	113.760	<400
		DH3	5	1.660	262.280	<400
		DH5	3	2.910	275.868	<400

Observation Period:

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

DH1 Mode

For each second of **9** transmission appearance,the longest time of occupancy is
9 transmission* **31.6** seconds* **0.400** ms= **113.760** ms (<400ms)

DH3 Mode

For each second of **5** transmission appearance,the longest time of occupancy is
5 transmission* **31.6** seconds* **1.660** ms= **262.280** ms (<400ms)

DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
3 transmission* **31.6** seconds* **2.910** ms= **275.868** 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	0.400	126.400	<400
		DH3	5	1.660	262.280	<400
		DH5	3	2.910	275.868	<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* **0.400** ms= **126.400** ms (<400ms)

DH3 Mode

For each second of **5** transmission appearance,the longest time of occupancy is
5 transmission* **31.6** seconds* **1.660** ms= **262.280** ms (<400ms)

DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
3 transmission* **31.6** seconds* **2.910** ms= **275.868** 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	0.400	126.400	<400
		DH3	5	1.660	262.280	<400
		DH5	2	2.910	183.912	<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* **0.400** ms= **126.400** ms (<400ms)

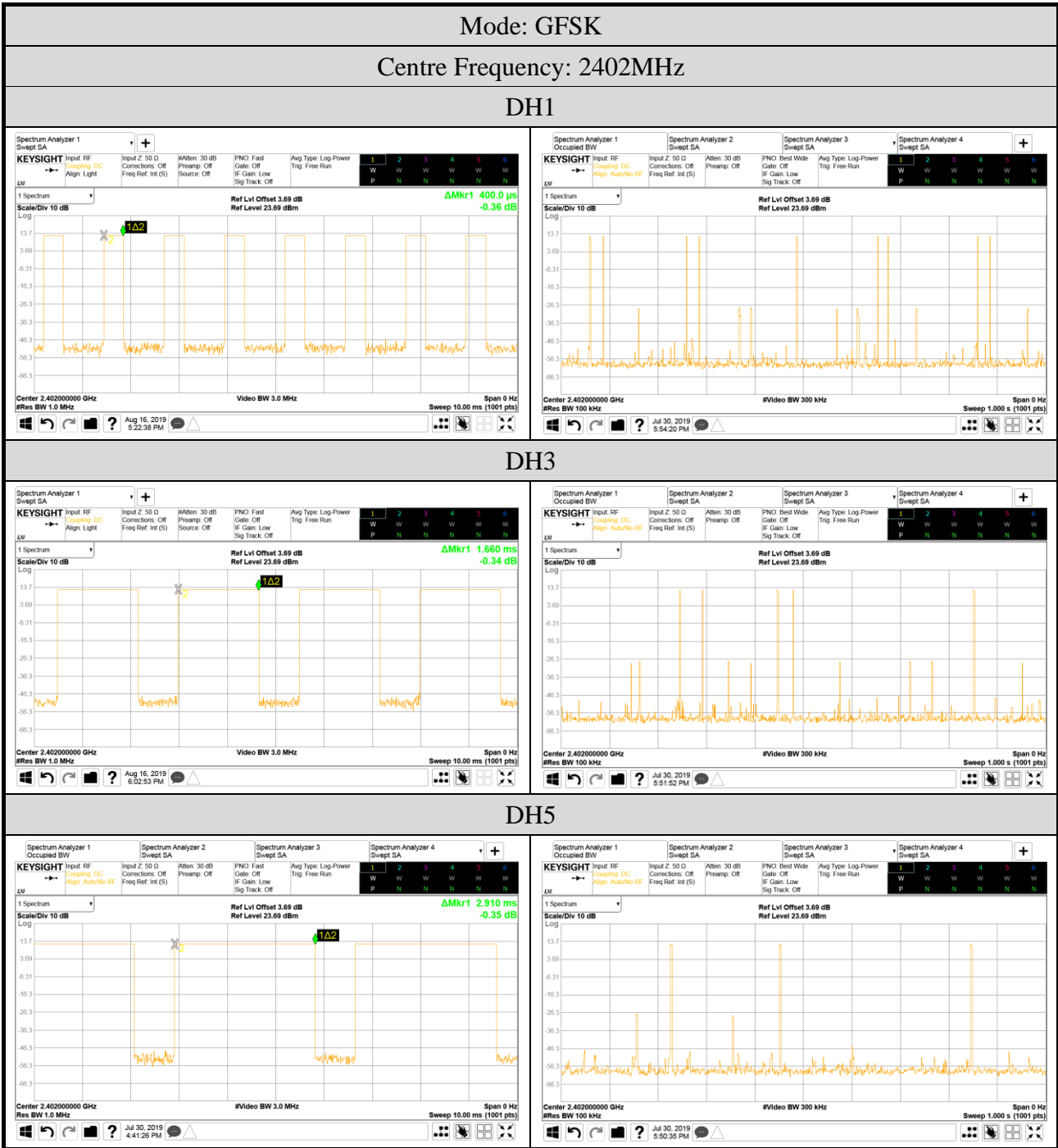
DH3 Mode

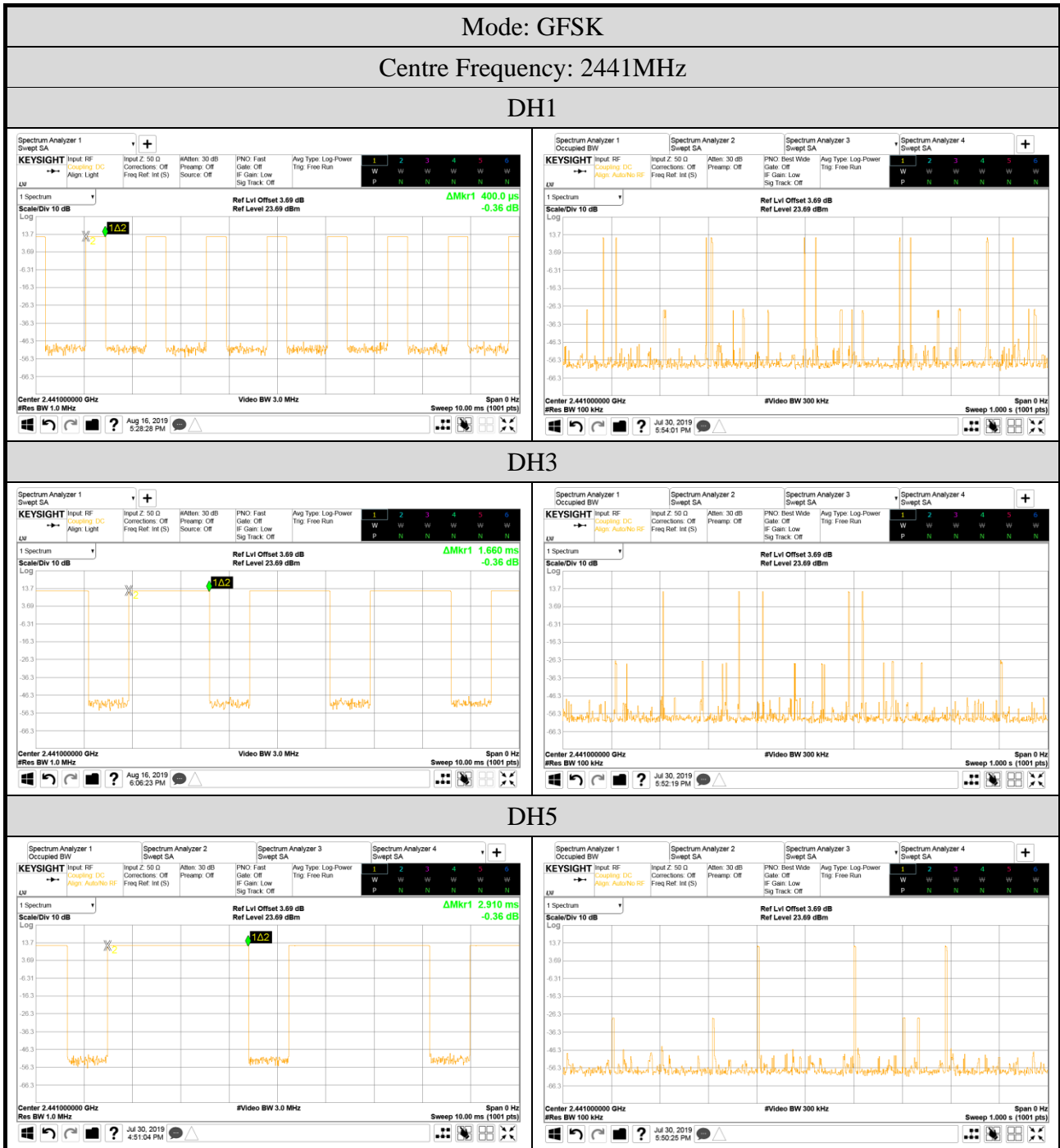
For each second of **5** transmission appearance,the longest time of occupancy is
5 transmission* **31.6** seconds* **1.660** ms= **262.280** ms (<400ms)

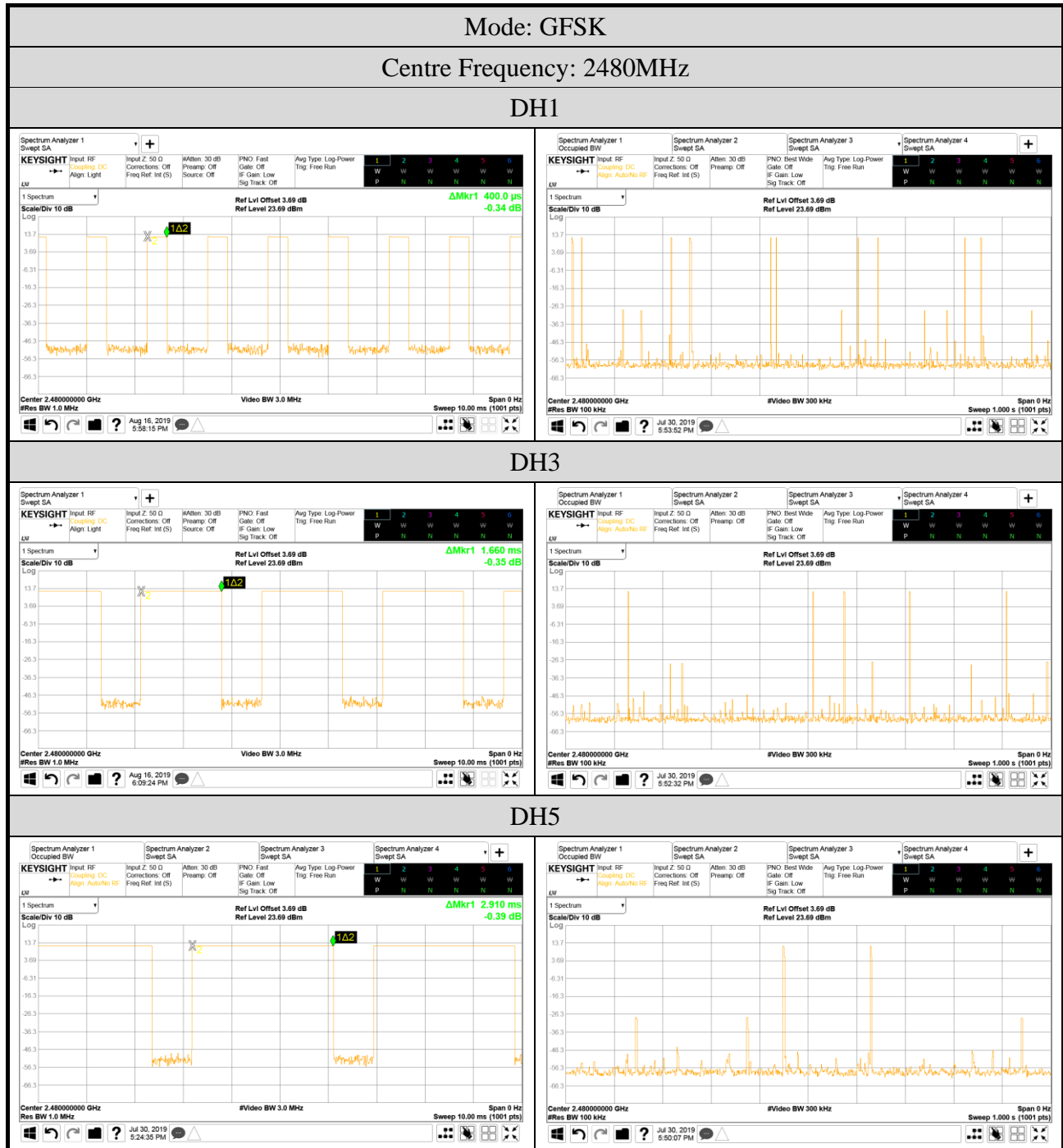
DH5 Mode

For each second of **2** transmission appearance,the longest time of occupancy is
2 transmission* **31.6** seconds* **2.910** ms= **183.912** ms (<400ms)

● Measurement Plots







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	0.400	126.400	<400
		3DH3	5	1.660	262.280	<400
		3DH5	2	2.910	183.912	<400

Observation Period:

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

3DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.400 \text{ ms} = 126.400 \text{ ms} (<400\text{ms})$

3DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.660 \text{ ms} = 262.280 \text{ ms} (<400\text{ms})$

3DH5 Mode

For each second of 2 transmission appearance, the longest time of occupancy is
 $2 \text{ transmission} * 31.6 \text{ seconds} * 2.910 \text{ ms} = 183.912 \text{ ms} (<400\text{ms})$

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2441	3DH1	10	0.410	129.560	<400
		3DH3	5	1.660	262.280	<400
		3DH5	2	2.910	183.912	<400

Observation Period:

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

3DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.410 \text{ ms} = 129.560 \text{ ms} (<400\text{ms})$

3DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.660 \text{ ms} = 262.280 \text{ ms} (<400\text{ms})$

3DH5 Mode

For each second of 2 transmission appearance, the longest time of occupancy is
 $2 \text{ transmission} * 31.6 \text{ seconds} * 2.910 \text{ ms} = 183.912 \text{ ms} (<400\text{ms})$

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2480	3DH1	10	0.410	129.560	<400
		3DH3	5	1.660	262.280	<400
		3DH5	2	2.910	183.912	<400

Observation Period:

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

3DH1 Mode

For each second of **10** transmission appearance, the longest time of occupancy is **10** transmission * **31.6** seconds * **0.410** ms = **129.560** ms (<400ms)

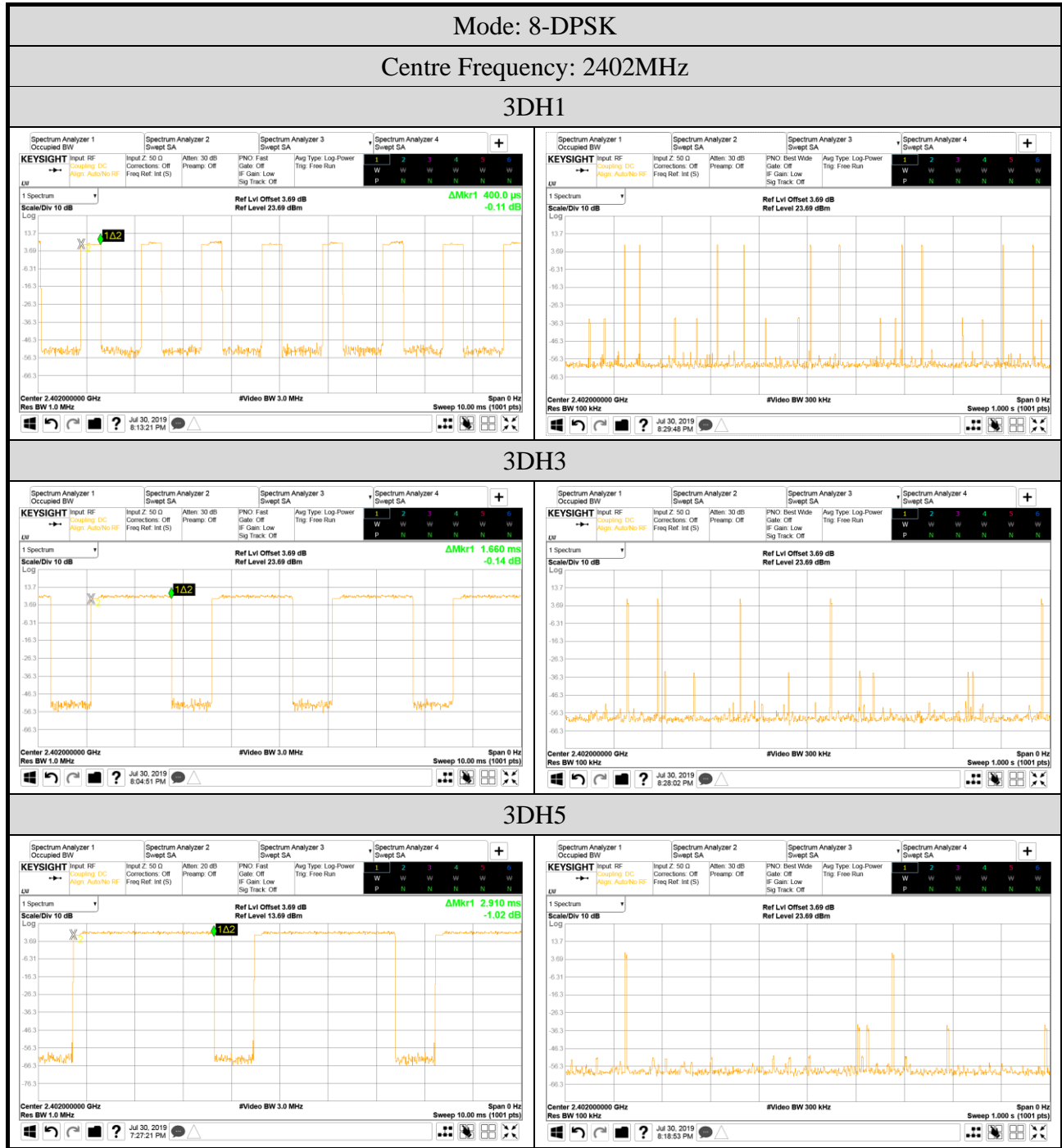
3DH3 Mode

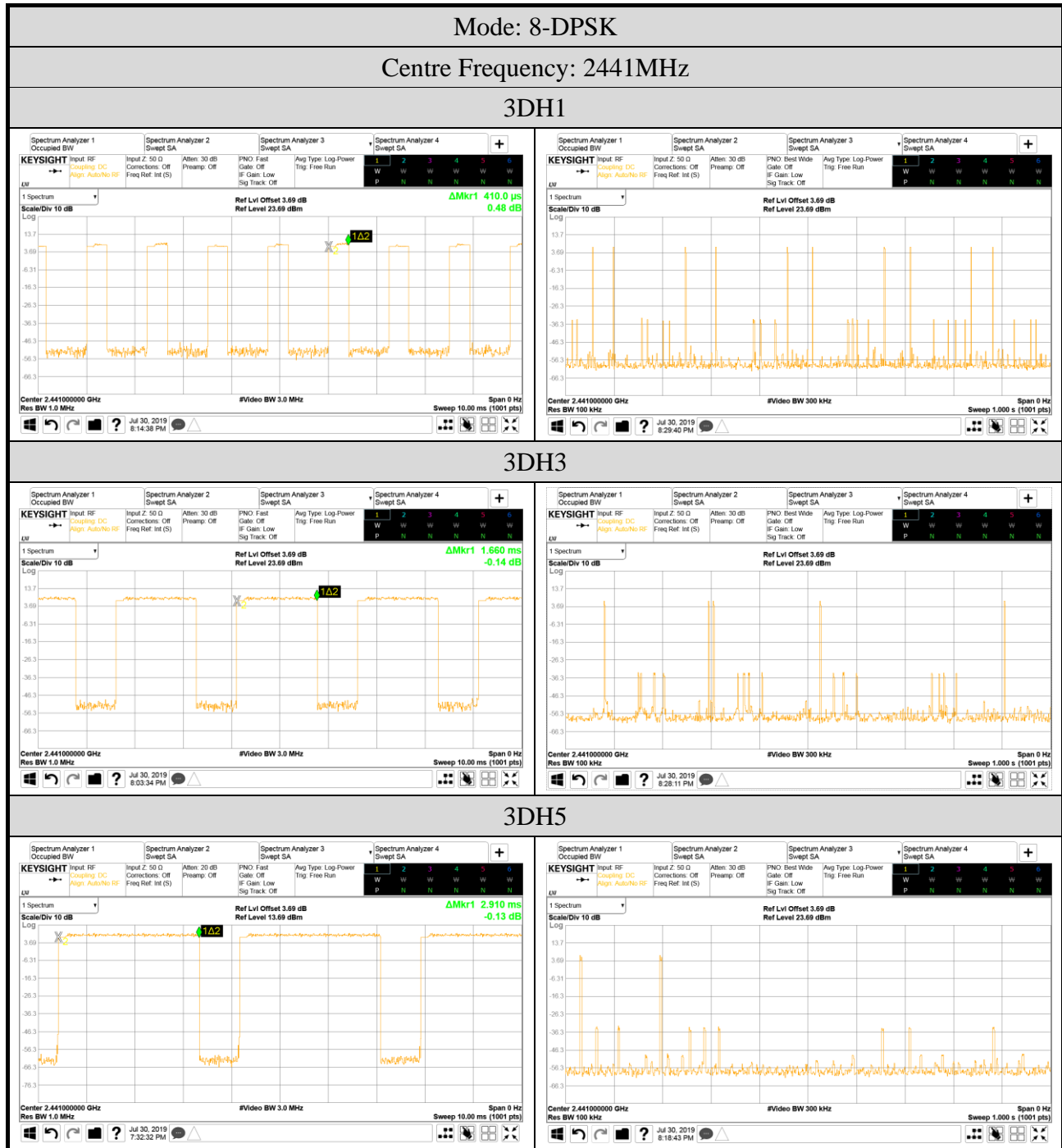
For each second of **5** transmission appearance, the longest time of occupancy is **5** transmission * **31.6** seconds * **1.660** ms = **262.280** ms (<400ms)

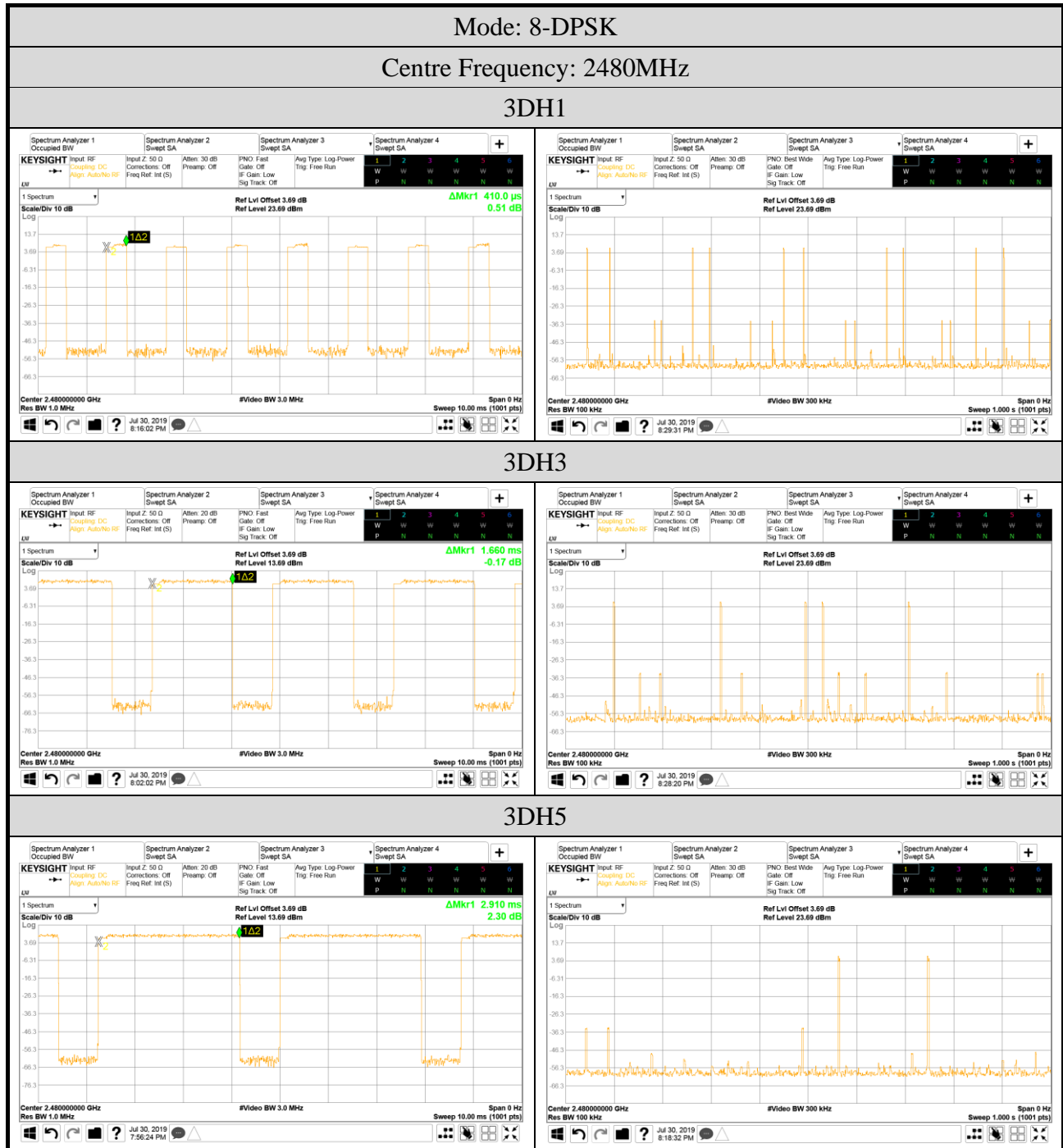
3DH5 Mode

For each second of **2** transmission appearance, the longest time of occupancy is **2** transmission * **31.6** seconds * **2.910** ms = **183.912** ms (<400ms)

● Measurement Plots







A.6 NUMBER OF HOPPING CHANNELS

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)

Mode: GFSK	Mode: 8-DPSK
The number hopping channel is 79.	The number hopping channel is 79.

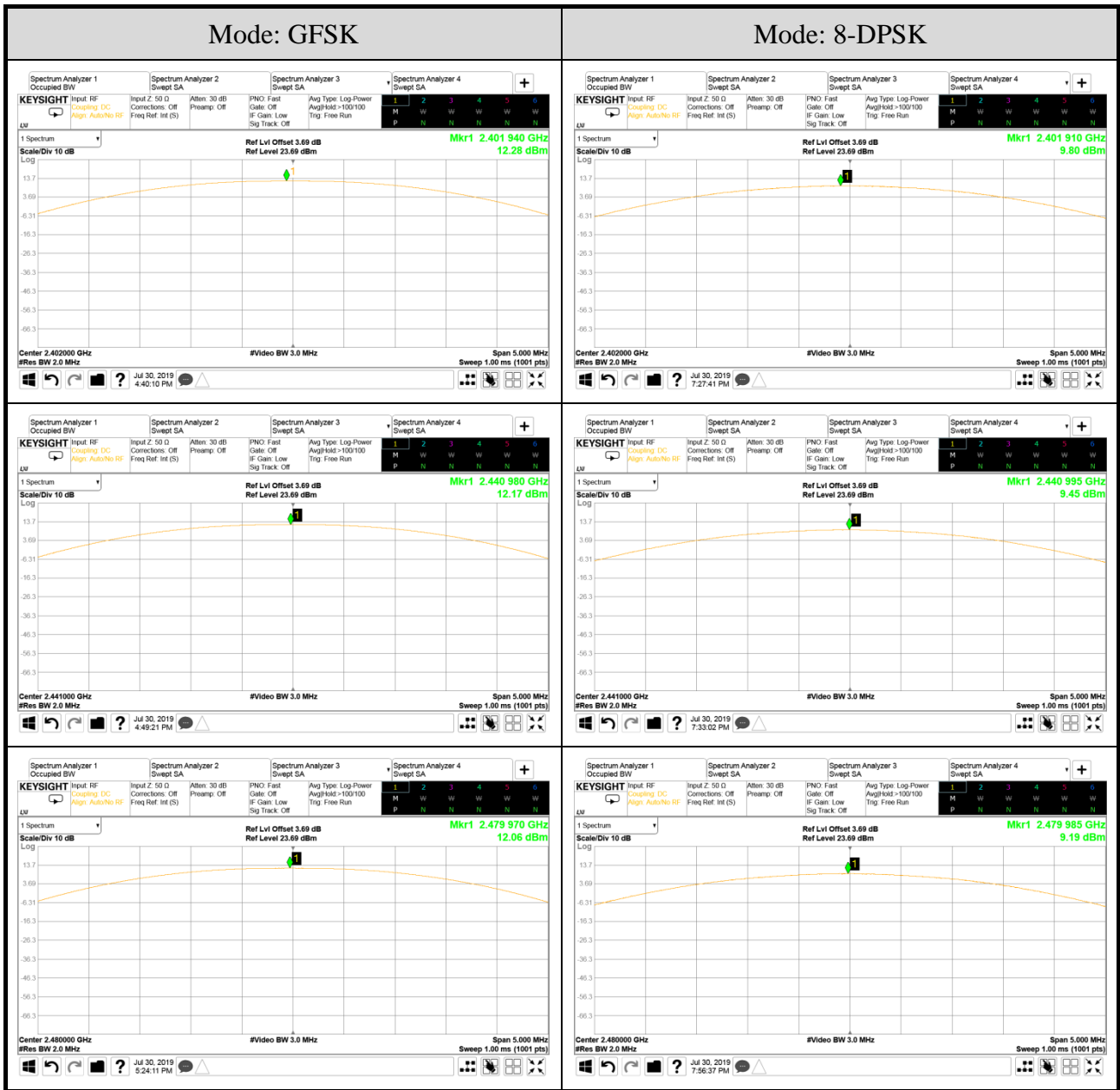
A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)

A.7.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	12.28	0.017	21dBm (0.125W)
	2441	12.17	0.016	
	2480	12.06	0.016	
8-DPSK	2402	9.80	0.010	
	2441	9.45	0.009	
	2480	9.19	0.008	

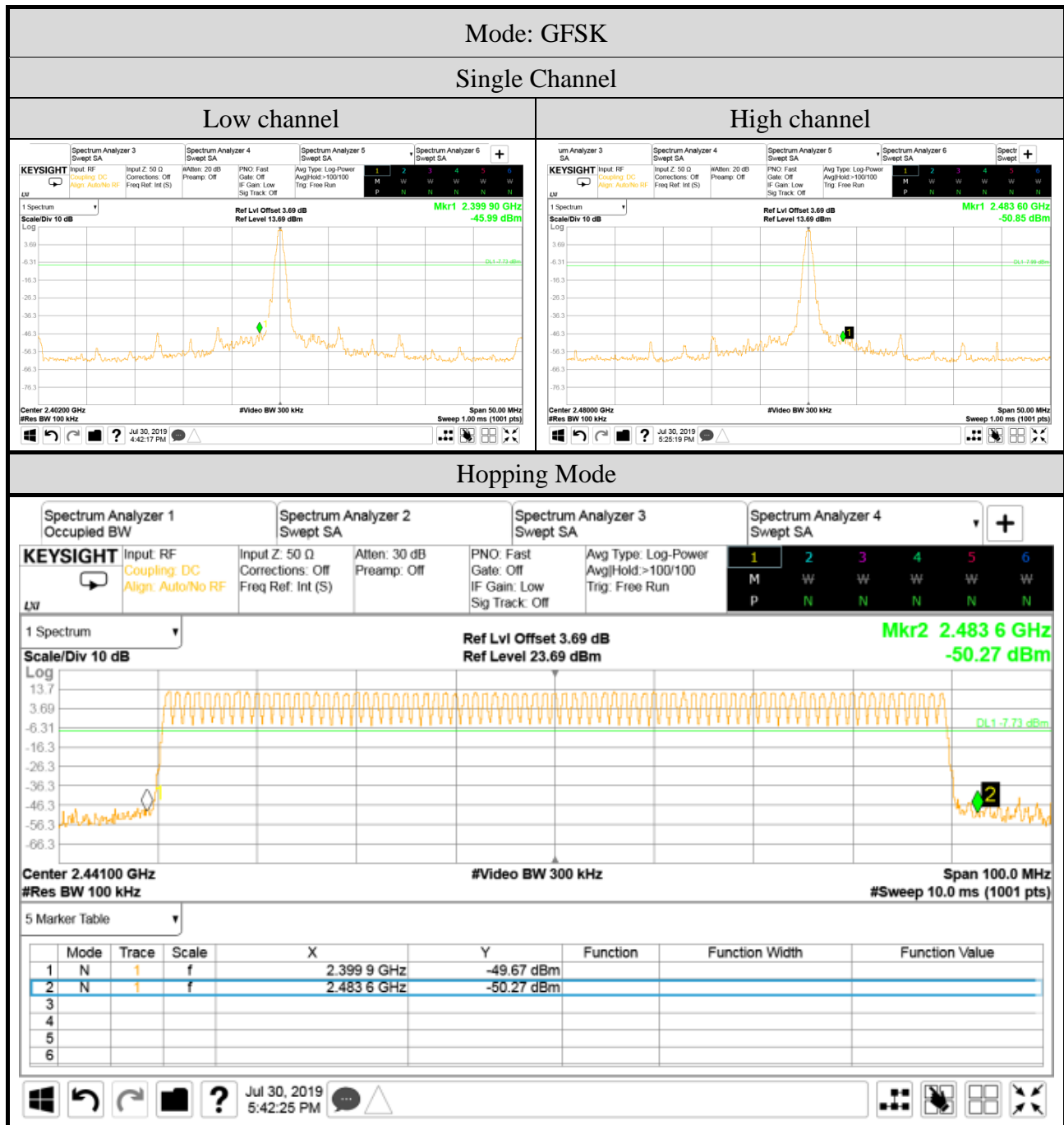
A.7.2 Measurement Plots

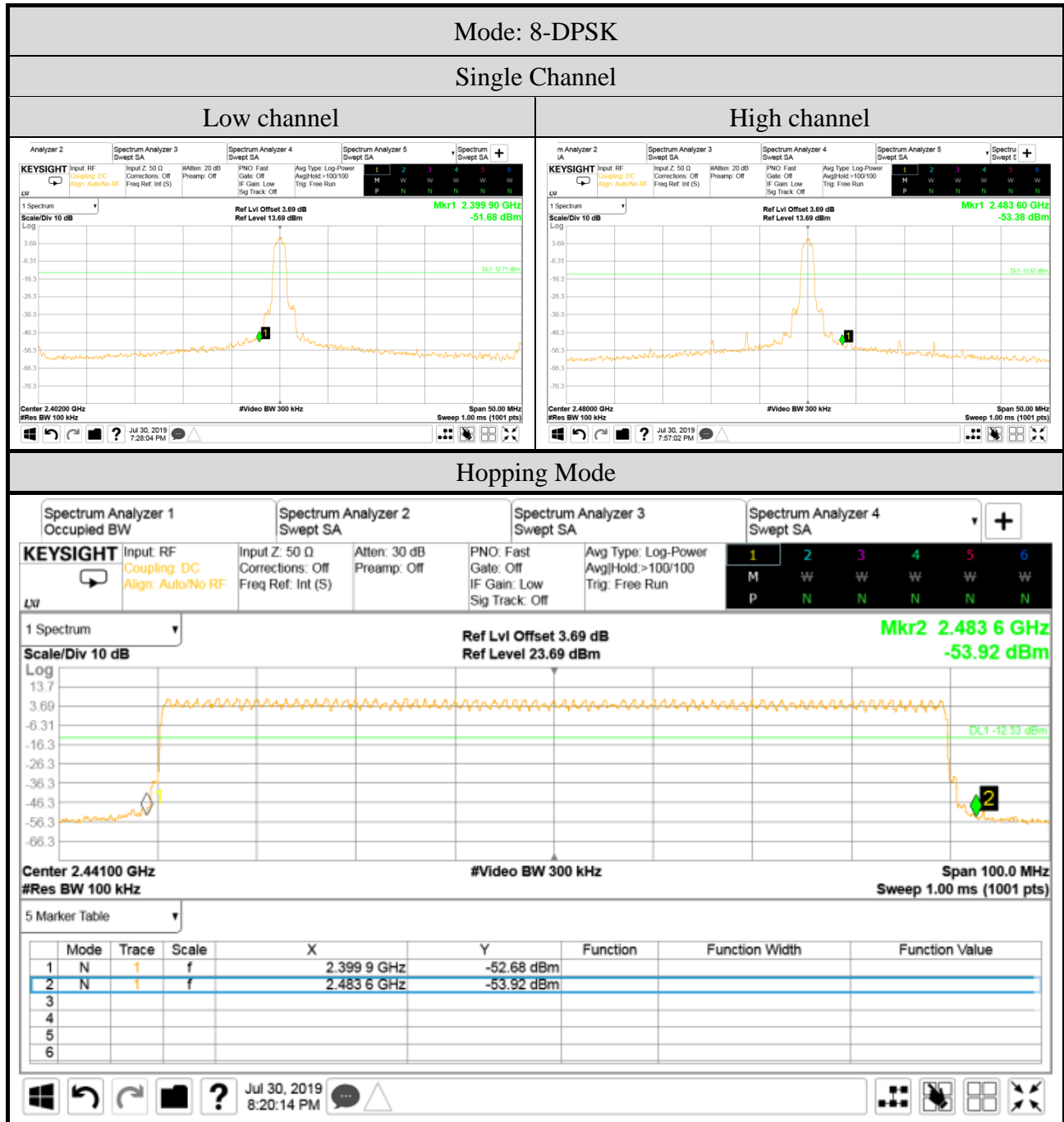


A.8 EMISSION LIMITATIONS MEASUREMENT

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)

A.8.1 Band Edge





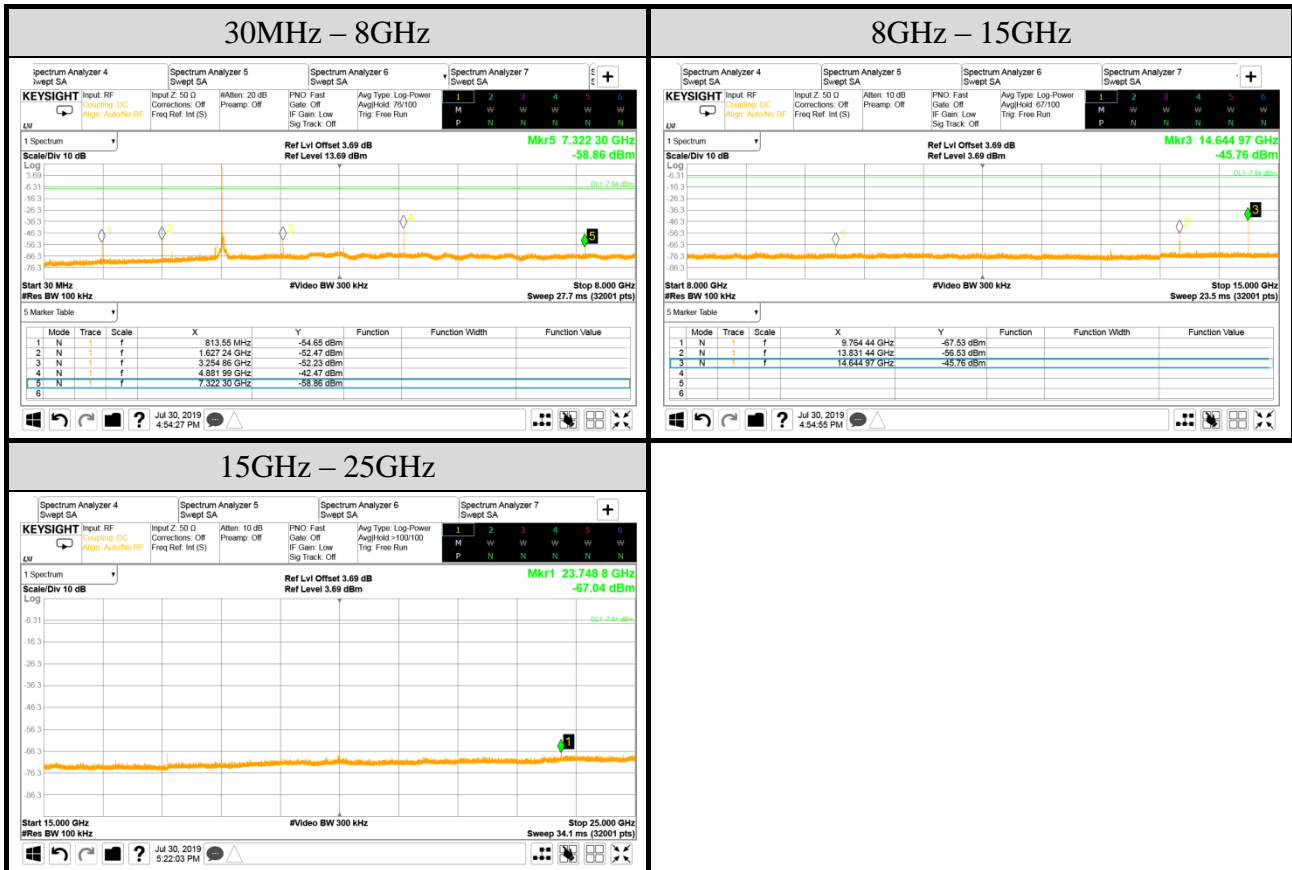
A.8.2 Spurious Emission

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)
Mode	GFSK	Frequency	2402MHz



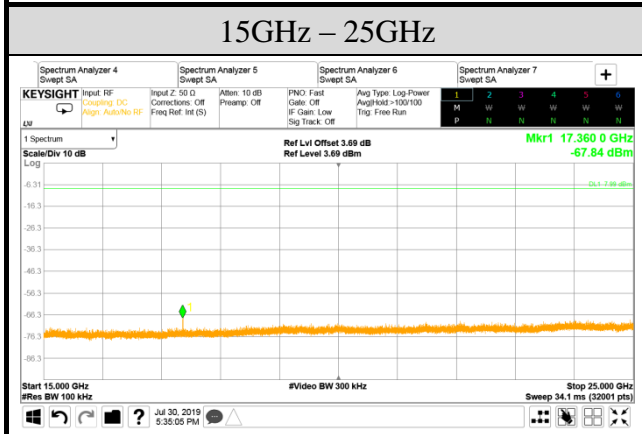
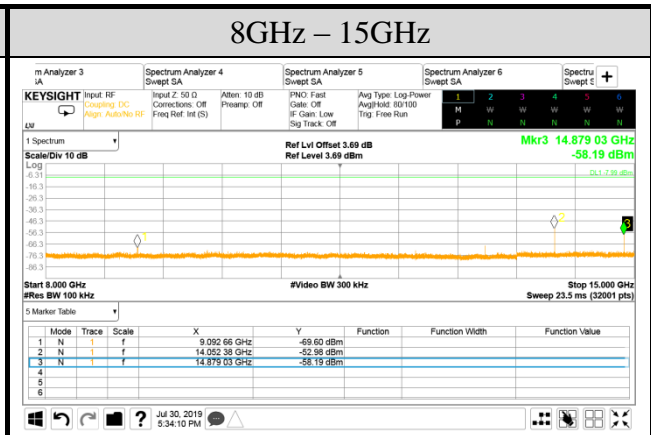
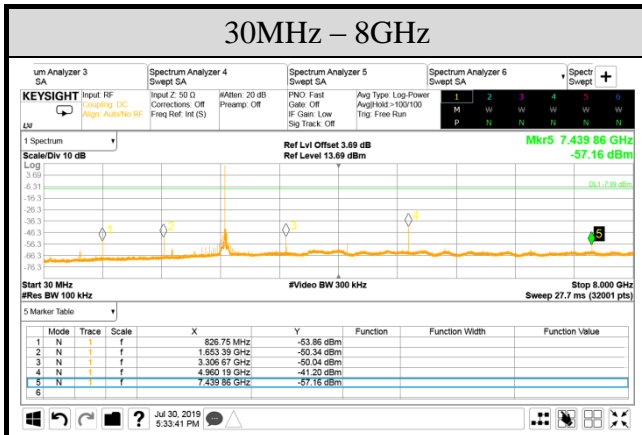
Note: All results have been included cable loss.

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)
Mode	GFSK	Frequency	2441MHz



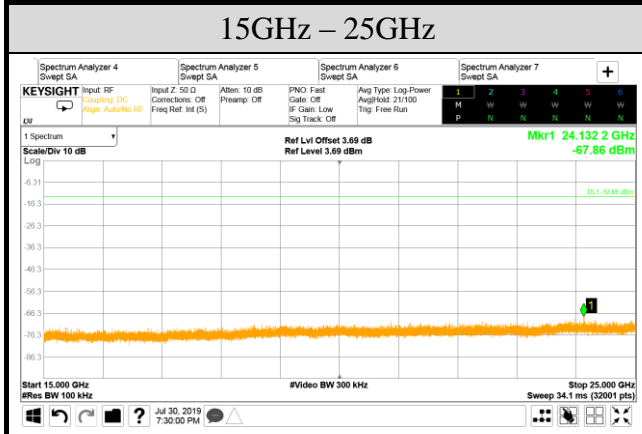
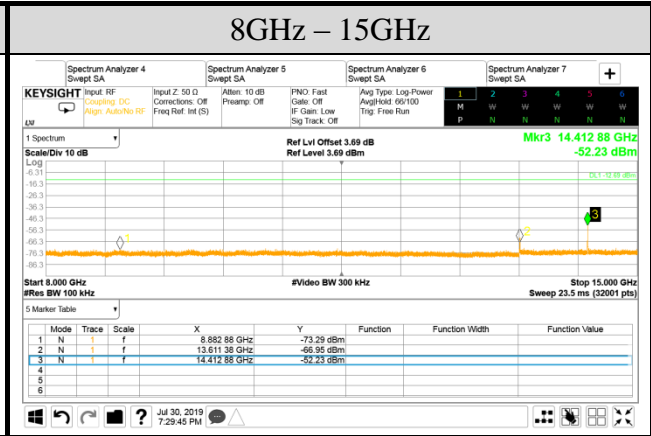
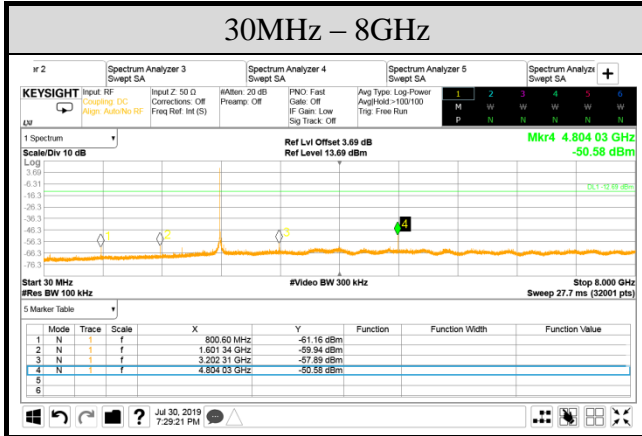
Note: All results have been included cable loss.

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)
Mode	GFSK	Frequency	2480MHz



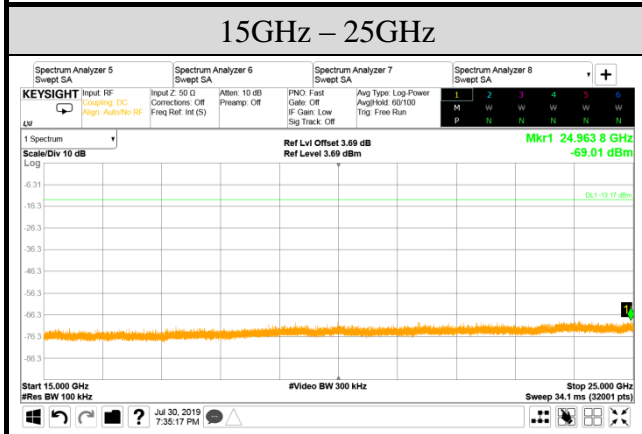
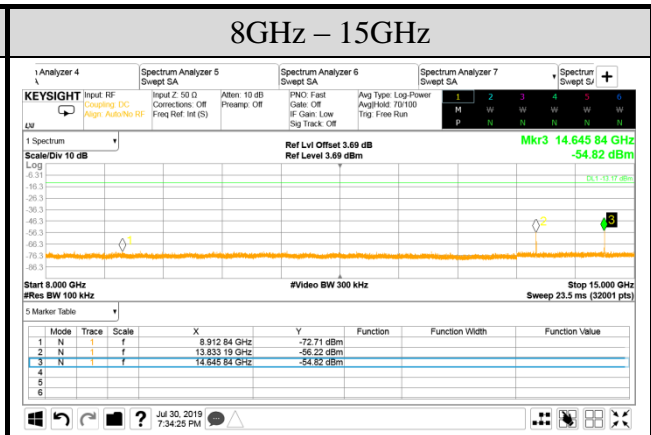
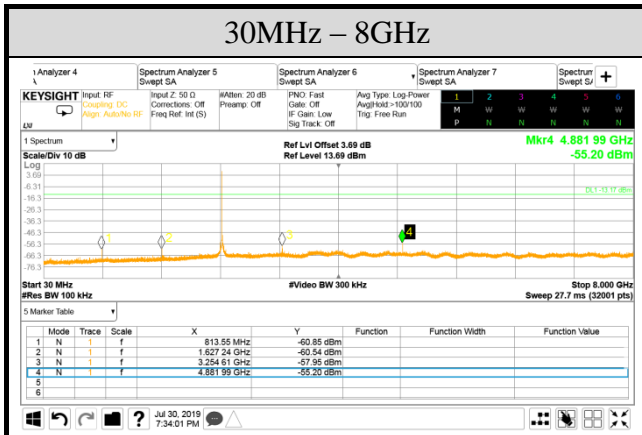
Note: All results have been included cable loss.

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)
Mode	8-DPSK	Frequency	2402MHz



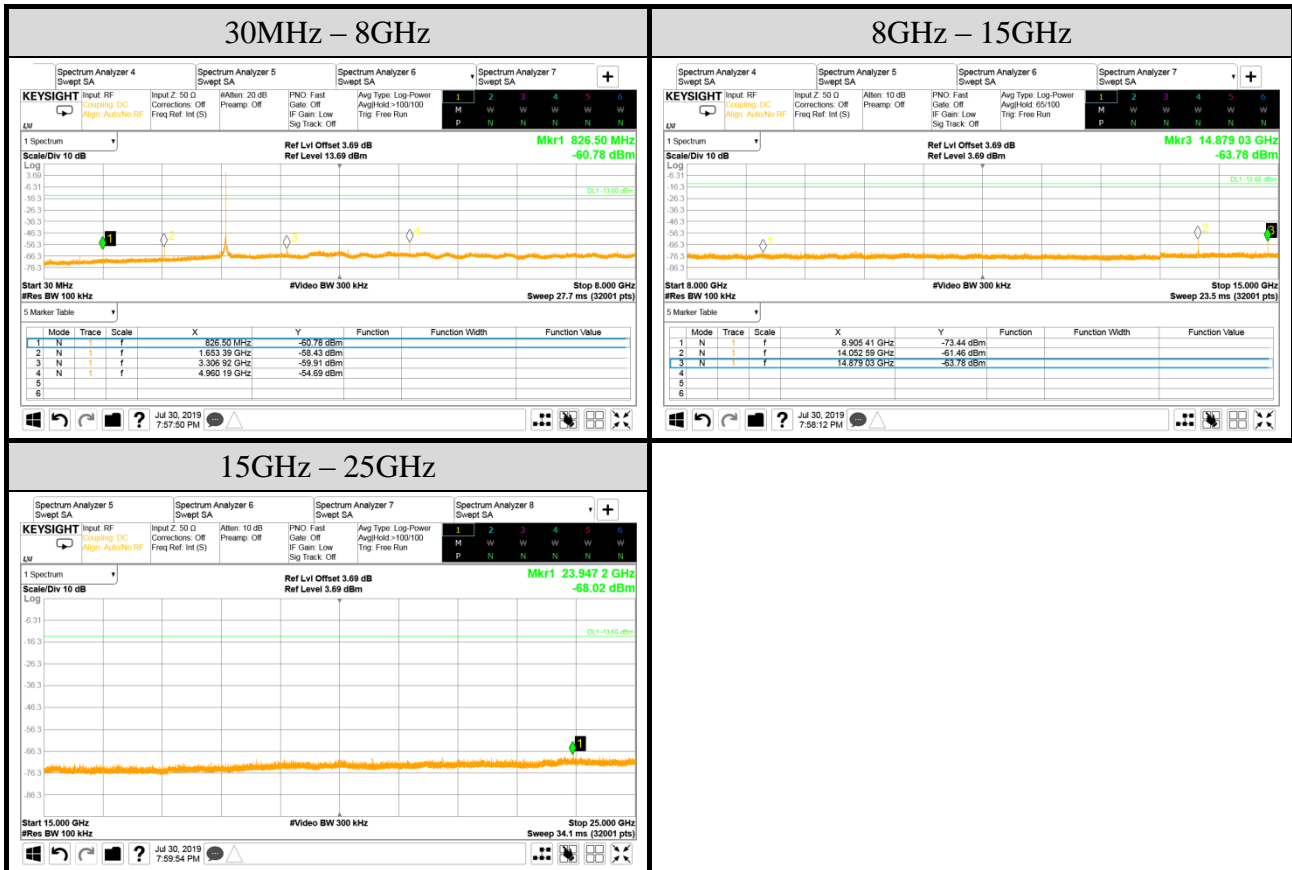
Note: All results have been included cable loss.

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)
Mode	8-DPSK	Frequency	2441MHz



Note: All results have been included cable loss.

Test Date	2019/07/30	Temp./Hum.	23°C/55%
Cable Loss	3.69dB	Test Voltage	DC 3.8V (Via Battery)
Mode	8-DPSK	Frequency	2480MHz



Note: All results have been included cable loss.



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APPENDIX B

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APPENDIX B

TEST PHOTOGRAPHS

(Model: T32MZ)