Audix Technology Corp.
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TABLE OF CONTENTS

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Audix Technology Corp.
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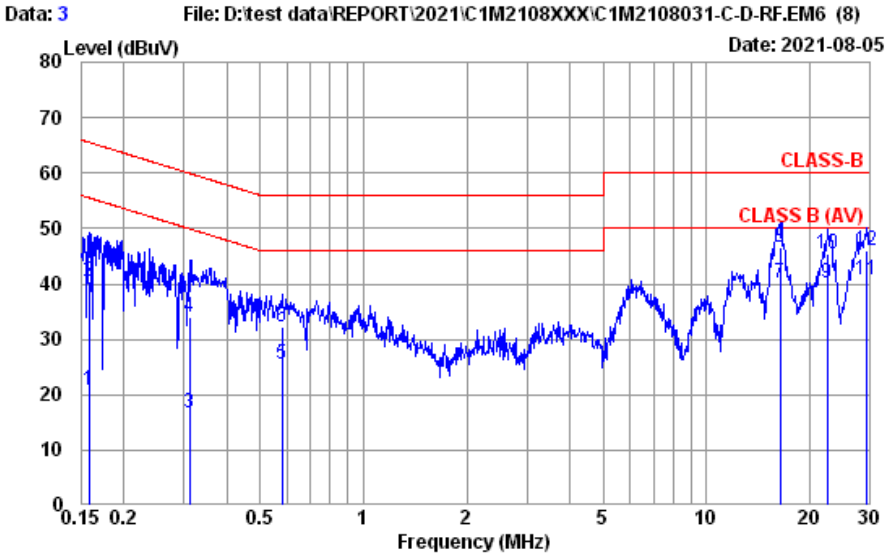
A.1 CONDUCTED EMISSION

Test Date	2021/08/02	Temp./Hum.	27℃/50%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #1 (with INPAQ Antenna)		



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR3(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B
Environment : 27°C / 50%
EUT Model : 15Z95P
Test Mode : Operating
INPAQ

Data No. : 3
Phase : NEUTRAL
Engineer : Roy Hung
Test Rating : 120Vac/60Hz

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.158	10.41	0.03	9.85	0.55	20.84	55.56	34.72	Average
2	0.158	10.41	0.03	9.85	20.24	40.53	65.56	25.03	QP
3	0.312	10.38	0.03	9.85	-3.55	16.71	49.93	33.22	Average
4	0.312	10.38	0.03	9.85	13.82	34.08	59.93	25.85	QP
5	0.579	10.37	0.03	9.85	5.15	25.40	46.00	20.60	Average
6	0.579	10.37	0.03	9.85	12.09	32.34	56.00	23.66	QP
7	16.398	10.98	0.18	9.92	19.08	40.16	50.00	9.84	Average
8	16.398	10.98	0.18	9.92	25.38	46.46	60.00	13.54	QP
9	22.416	11.18	0.21	9.95	18.77	40.11	50.00	9.89	Average
10	22.416	11.18	0.21	9.95	24.01	45.35	60.00	14.65	QP
11	29.371	11.36	0.24	10.00	19.14	40.74	50.00	9.26	Average
12	29.371	11.36	0.24	10.00	24.54	46.14	60.00	13.86	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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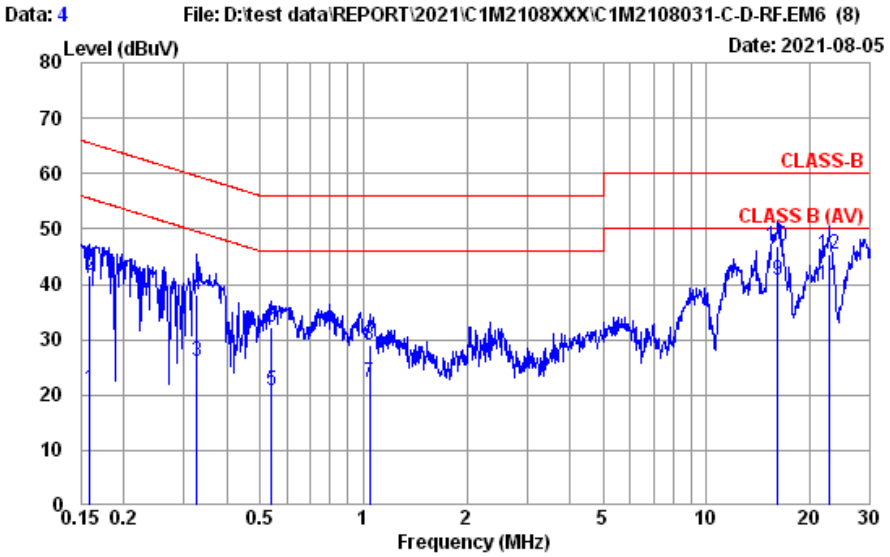
Test Date	2021/08/02	Temp./Hum.	27°C/50%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #1 (with INPAQ Antenna)		




```
Site No.        : No.8 Shielded Room              Data No.     : 4
Instrument 1    : Receiver ESR3(774)
Instrument 2    : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit           : CLASS-B                         Phase        : LINE
Environment     : 27°C / 50%                      Engineer     : Roy Hung
EUT Model       : 15Z95P                          Test Rating  : 120Vac/60Hz
Test Mode       : Operating
                  INPAQ
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.159	10.40	0.03	9.85	0.85	21.13	55.52	34.39	Average
2	0.159	10.40	0.03	9.85	21.28	41.56	65.52	23.96	QP
3	0.327	10.38	0.03	9.85	5.90	26.16	49.53	23.37	Average
4	0.327	10.38	0.03	9.85	17.82	38.08	59.53	21.45	QP
5	0.541	10.37	0.03	9.85	0.52	20.77	46.00	25.23	Average
6	0.541	10.37	0.03	9.85	11.84	32.09	56.00	23.91	QP
7	1.043	10.38	0.04	9.85	1.93	22.20	46.00	23.80	Average
8	1.043	10.38	0.04	9.85	8.80	29.07	56.00	26.93	QP
9	16.140	10.71	0.18	9.92	20.05	40.86	50.00	9.14	Average
10	16.140	10.71	0.18	9.92	26.14	46.95	60.00	13.05	QP
11	22.775	10.80	0.21	9.96	18.96	39.93	50.00	10.07	Average
12	22.775	10.80	0.21	9.96	24.55	45.52	60.00	14.48	QP

```
Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
         2. If the average limit is met when using a quasi-peak detector,
            the EUT shall be deemed to meet both limits and measurement
            with average detector is unnecessary.
```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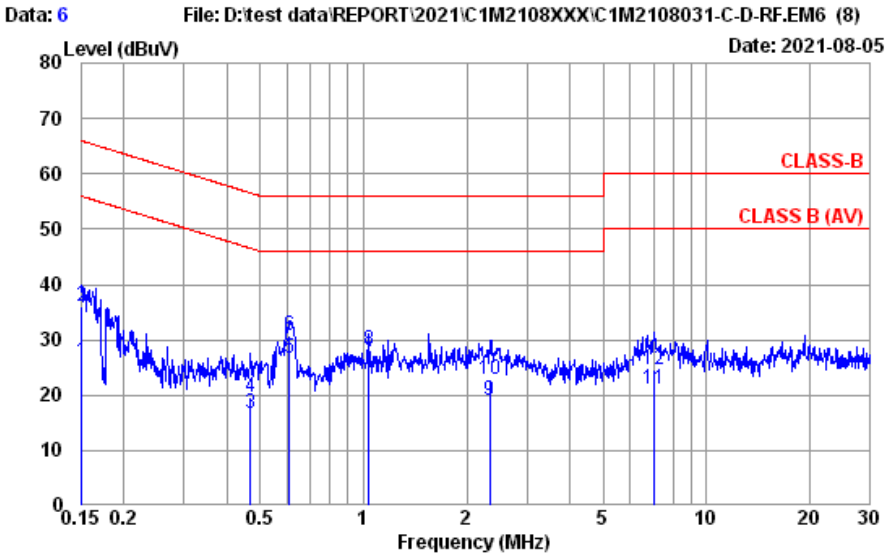
Test Date	2021/08/02	Temp./Hum.	27°C/50%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #2 (with LUXSHARE-ICT Antenna)		




```
Site No.        : No.8 Shielded Room              Data No.     : 6
Instrument 1    : Receiver ESR3(774)
Instrument 2    : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit           : CLASS-B                         Phase        : NEUTRAL
Environment     : 27°C / 50%                      Engineer     : Roy Hung
EUT Model       : 15Z95P                          Test Rating  : 120Vac/60Hz
Test Mode       : Operating
                  LUXSHARE
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.151	10.41	0.03	9.85	5.74	26.03	55.96	29.93	Average
2	0.151	10.41	0.03	9.85	15.85	36.14	65.96	29.82	QP
3	0.469	10.37	0.03	9.85	-3.66	16.59	46.54	29.95	Average
4	0.469	10.37	0.03	9.85	-0.49	19.76	56.54	36.78	QP
5	0.608	10.37	0.03	9.85	6.43	26.68	46.00	19.32	Average
6	0.608	10.37	0.03	9.85	10.61	30.86	56.00	25.14	QP
7	1.037	10.38	0.04	9.85	5.87	26.14	46.00	19.86	Average
8	1.037	10.38	0.04	9.85	7.98	28.25	56.00	27.75	QP
9	2.334	10.42	0.07	9.86	-1.43	18.92	46.00	27.08	Average
10	2.334	10.42	0.07	9.86	2.42	22.77	56.00	33.23	QP
11	7.025	10.59	0.12	9.87	0.64	21.22	50.00	28.78	Average
12	7.025	10.59	0.12	9.87	3.98	24.56	60.00	35.44	QP

```
Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
         2. If the average limit is met when using a quasi-peak detector,
            the EUT shall be deemed to meet both limits and measurement
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```


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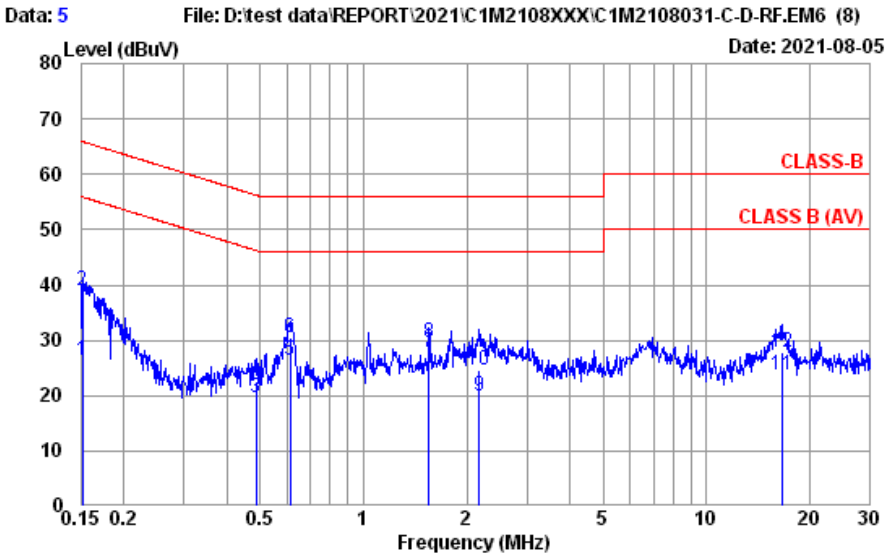
Test Date	2021/08/02	Temp./Hum.	27°C/50%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #2 (with LUXSHARE-ICT Antenna)		




```
Site No.        : No.8 Shielded Room              Data No.     : 5
Instrument 1    : Receiver ESR3(774)
Instrument 2    : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit           : CLASS-B                         Phase        : LINE
Environment     : 27°C / 50%                      Engineer     : Roy Hung
EUT Model       : 15Z95P                          Test Rating  : 120Vac/60Hz
Test Mode       : Operating
                  LUXSHARE
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.152	10.40	0.03	9.85	6.05	26.33	55.91	29.58	Average
2	0.152	10.40	0.03	9.85	18.63	38.91	65.91	27.00	QP
3	0.486	10.37	0.03	9.85	-0.74	19.51	46.23	26.72	Average
4	0.486	10.37	0.03	9.85	2.36	22.61	56.23	33.62	QP
5	0.611	10.37	0.03	9.85	6.09	26.34	46.00	19.66	Average
6	0.611	10.37	0.03	9.85	10.11	30.36	56.00	25.64	QP
7	1.552	10.39	0.05	9.86	7.51	27.81	46.00	18.19	Average
8	1.552	10.39	0.05	9.86	9.35	29.65	56.00	26.35	QP
9	2.178	10.40	0.06	9.86	-0.49	19.83	46.00	26.17	Average
10	2.178	10.40	0.06	9.86	4.18	24.50	56.00	31.50	QP
11	16.661	10.71	0.18	9.92	3.01	23.82	50.00	26.18	Average
12	16.661	10.71	0.18	9.92	7.17	27.98	60.00	32.02	QP

```
Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
         2. If the average limit is met when using a quasi-peak detector,
            the EUT shall be deemed to meet both limits and measurement
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```


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A.2 RADIATED EMISSION

Test Date	2021/08/09 ~ 13	Temp./Hum.	25 ~ 27°C/53 ~ 62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Kuper Hsu
Test SKU	SKU #1 (with INPAQ Antenna)		

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	GFSK	Frequency	TX 2441MHz

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
31.940	22.59	0.46	28.37	31.15	25.83	40.00	14.17	Peak
160.950	15.57	1.10	27.86	39.41	28.22	43.50	15.28	Peak
299.660	18.87	1.58	27.50	35.73	28.68	46.00	17.32	Peak
370.470	20.55	1.78	28.01	35.99	30.31	46.00	15.69	Peak
876.810	26.05	2.99	28.46	29.62	30.20	46.00	15.80	Peak
996.120	26.98	3.28	28.13	29.54	31.67	54.00	22.33	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
48.430	14.46	0.58	28.35	48.06	34.75	40.00	5.25	Peak
120.210	17.82	0.94	28.05	39.14	29.85	43.50	13.65	Peak
250.190	18.03	1.42	27.60	37.59	29.44	46.00	16.56	Peak
698.330	24.59	2.60	28.88	30.33	28.64	46.00	17.36	Peak
827.340	25.67	2.88	28.60	30.53	30.48	46.00	15.52	Peak
991.270	26.93	3.26	28.15	28.79	30.83	54.00	23.17	Peak

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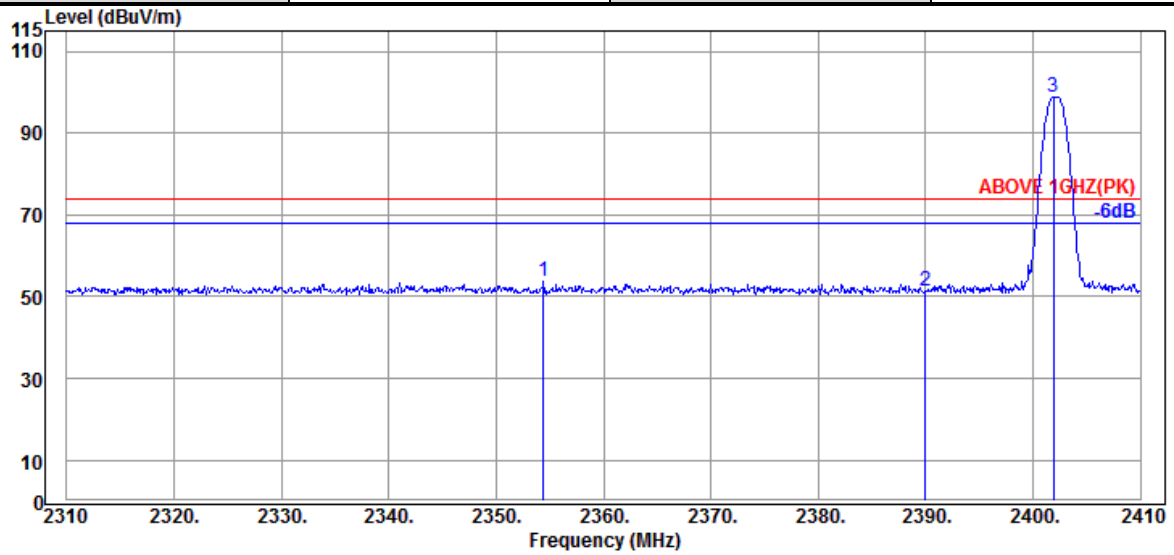
A.2.1.3 Frequency Above 1 GHz to 10th harmonics

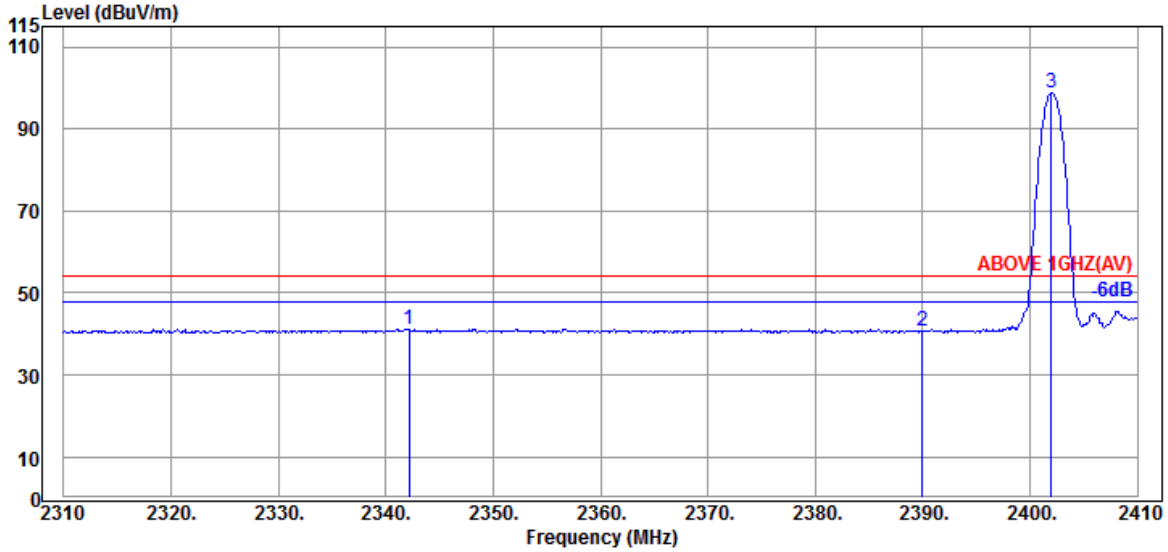
Band Edge:

Mode	GFSK	Frequency	TX 2402MHz



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
	2354.400	32.10	7.93	34.53	48.25	53.75	74.00	20.25	Peak
	2390.000	31.89	7.95	34.54	46.11	51.41	74.00	22.59	Peak
@	2401.900	31.80	7.95	34.54	93.72	98.93	---	---	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
	2342.200	32.05	7.92	34.53	35.79	41.23	54.00	12.77	Average
	2390.000	31.89	7.95	34.54	35.47	40.77	54.00	13.23	Average
@	2402.000	31.80	7.95	34.54	93.54	98.75	---	---	Average

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

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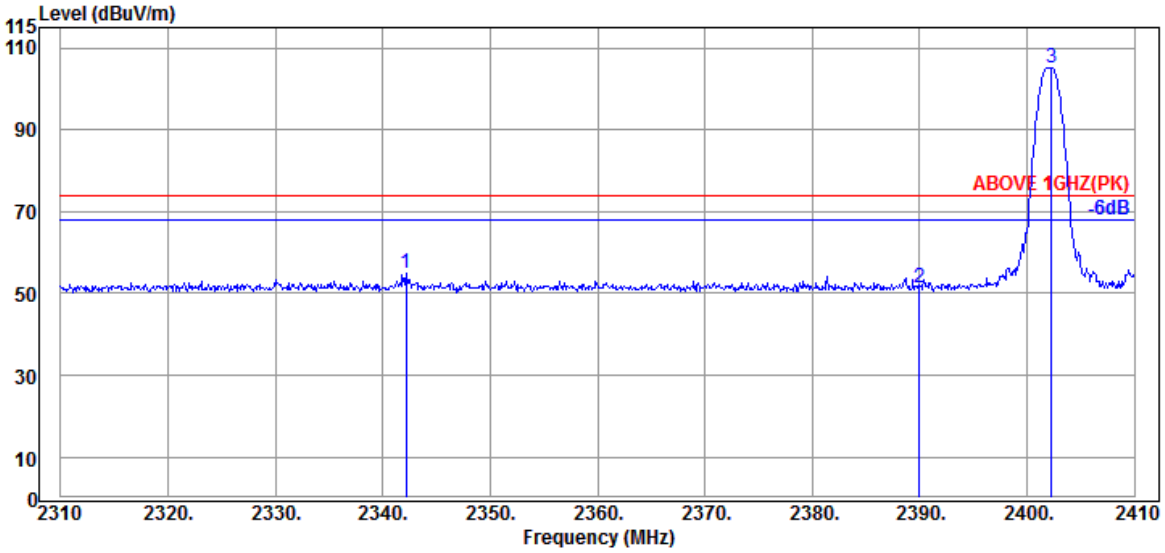
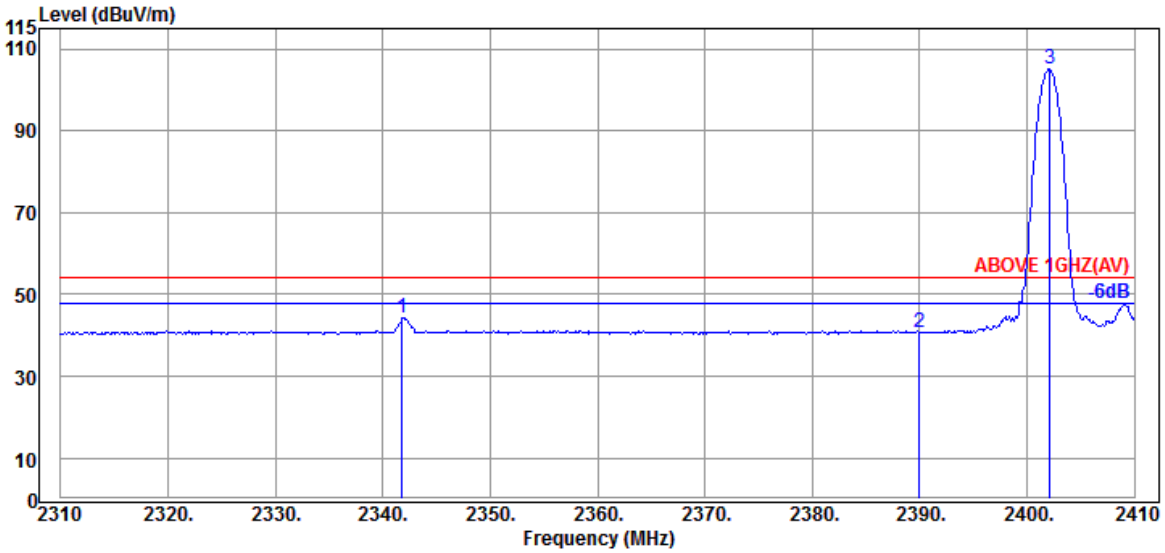
Mode	GFSK	Frequency	TX 2402MHz



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
	2342.200	32.05	7.92	34.53	49.46	54.90	74.00	19.10	Peak
	2390.000	31.89	7.95	34.54	45.99	51.29	74.00	22.71	Peak
@	2402.300	31.80	7.95	34.54	99.99	105.20	---	---	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
	2341.800	32.05	7.92	34.53	38.69	44.13	54.00	9.87	Average
	2390.000	31.89	7.95	34.54	35.21	40.51	54.00	13.49	Average
@	2402.100	31.80	7.95	34.54	99.77	104.98	---	---	Average

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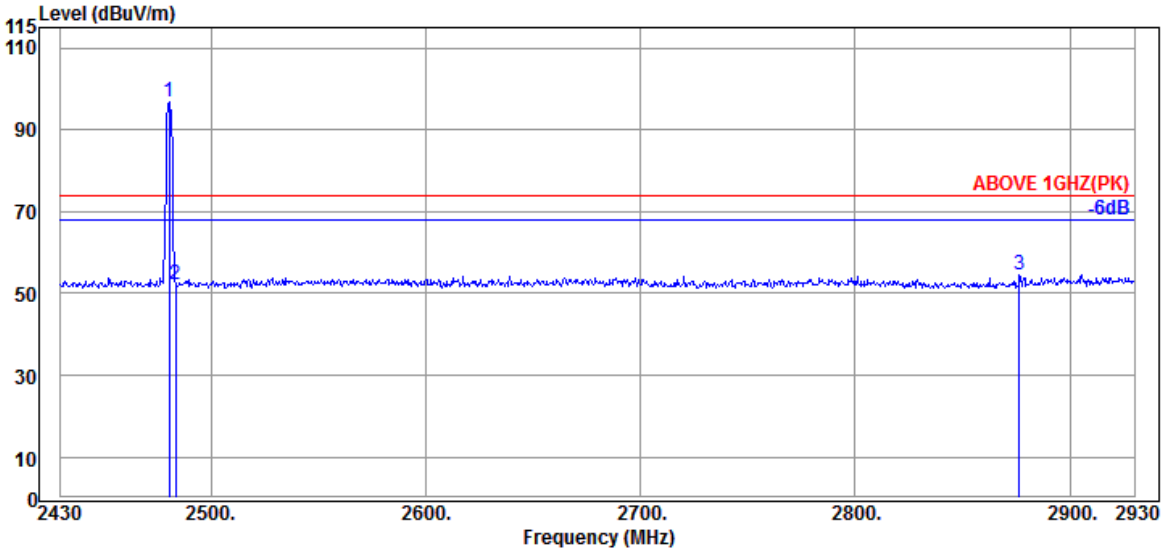
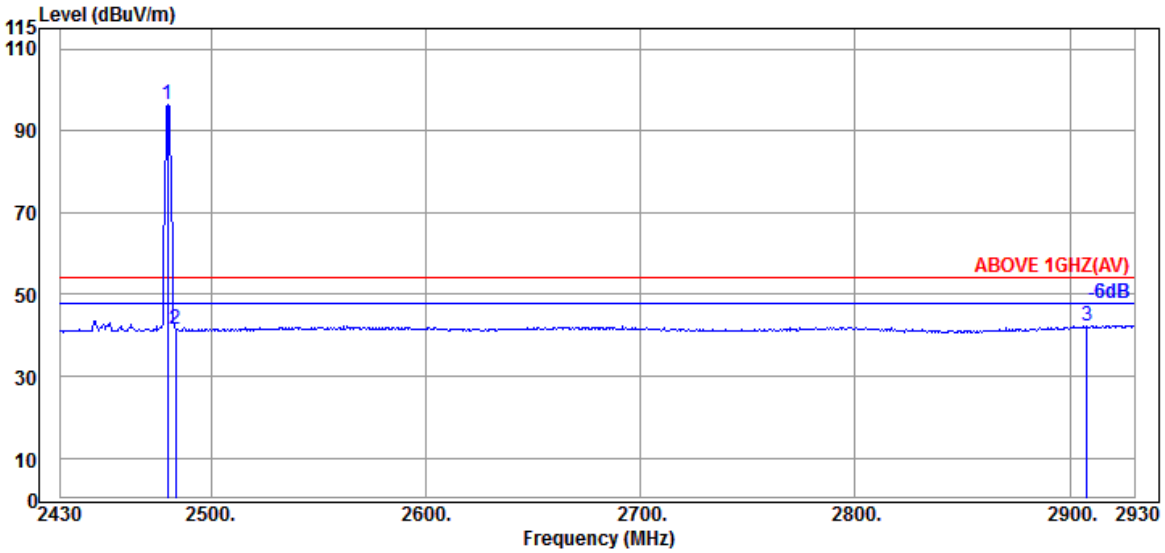
Mode	GFSK	Frequency	TX 2480MHz



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
@	2480.500	32.30	7.99	34.55	91.12	96.86	---	---	Peak
	2483.500	32.30	7.99	34.55	46.51	52.25	74.00	21.75	Peak
	2876.500	32.53	8.17	34.64	48.40	54.46	74.00	19.54	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
@	2480.000	32.30	7.99	34.55	90.88	96.62	---	---	Average
	2483.500	32.30	7.99	34.55	35.66	41.40	54.00	12.60	Average
	2908.000	32.77	8.18	34.64	36.14	42.45	54.00	11.55	Average

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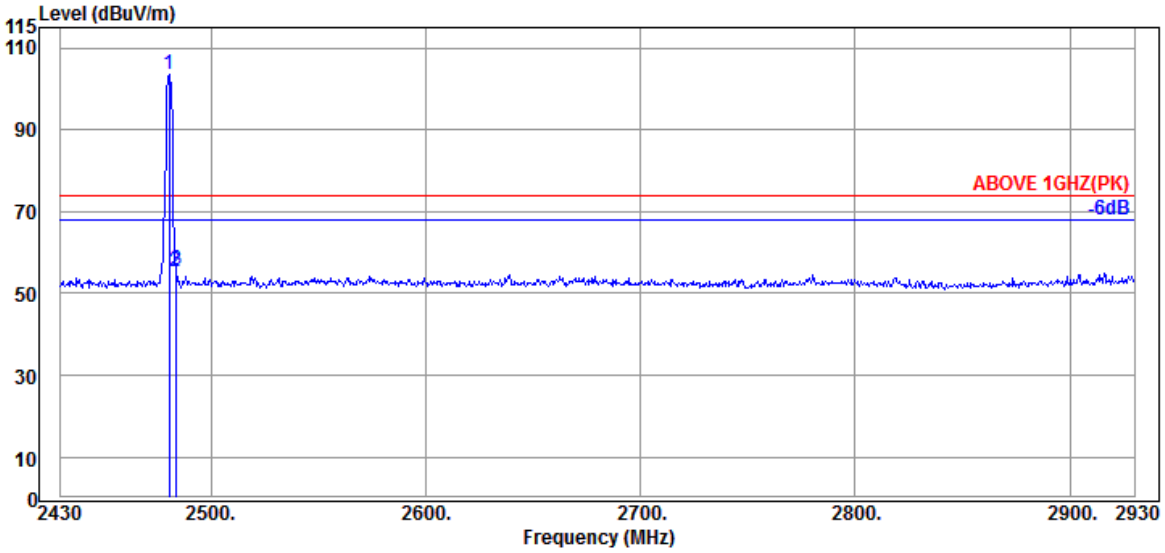
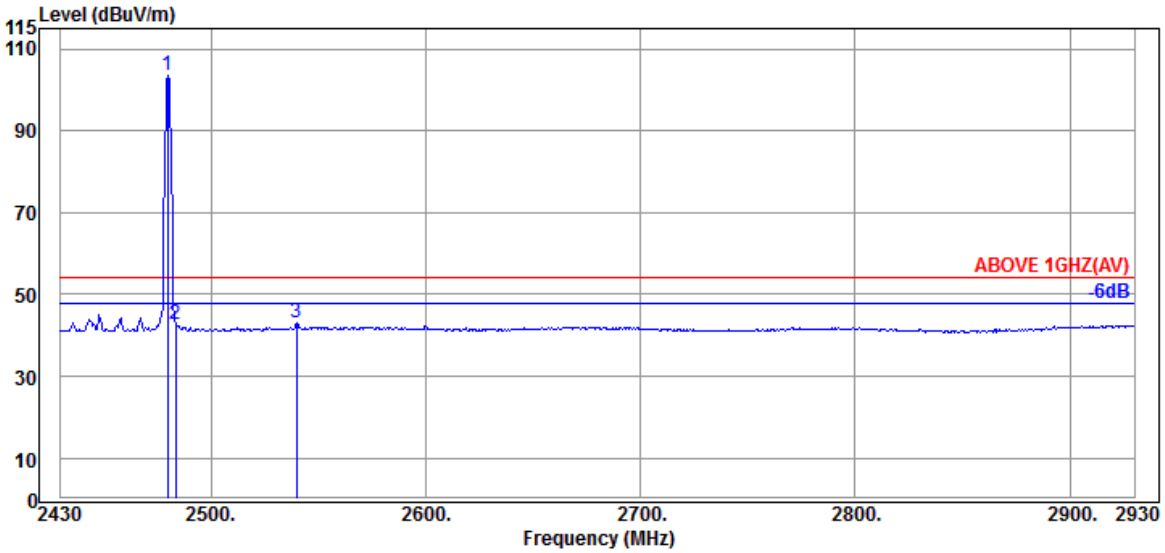
Mode	GFSK	Frequency	TX 2480MHz



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
@ 2480.500	32.30	7.99	34.55	97.86	103.60	---	---	Peak
2483.500	32.30	7.99	34.55	49.53	55.27	74.00	18.73	Peak
2484.000	32.30	7.99	34.55	49.91	55.65	74.00	18.35	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
@ 2480.000	32.30	7.99	34.55	97.63	103.37	---	---	Average
2483.500	32.30	7.99	34.55	36.92	42.66	54.00	11.34	Average
2540.000	32.47	8.02	34.57	37.31	43.23	54.00	10.77	Average

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

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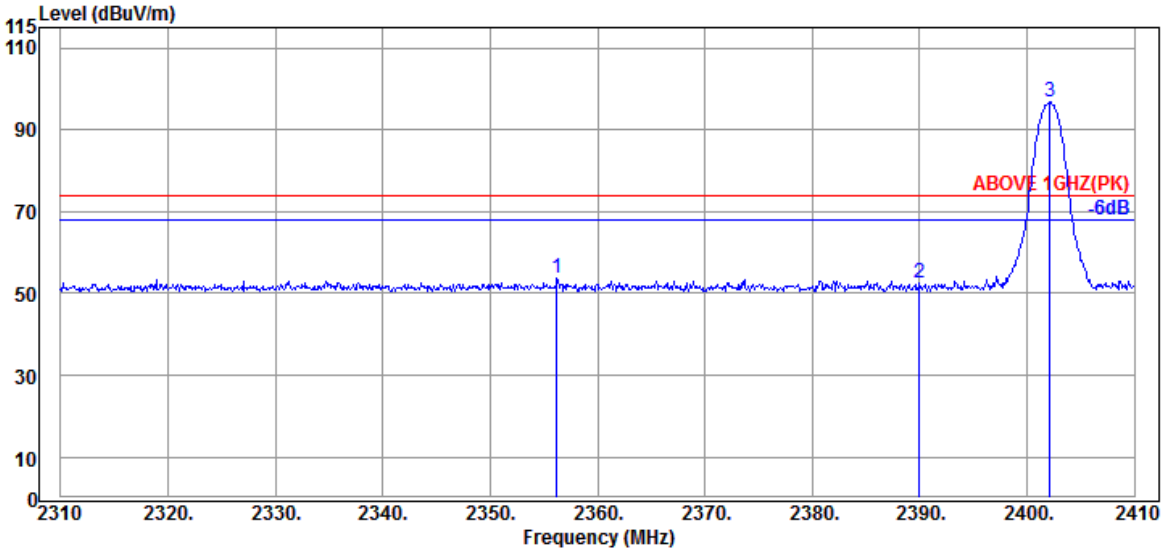
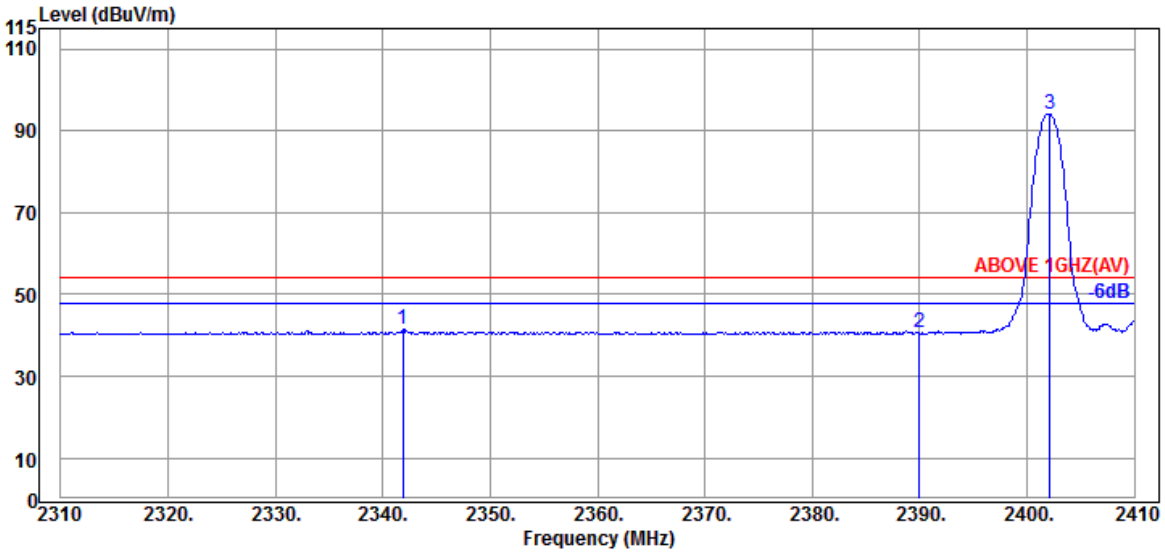
Mode	8-DPSK	Frequency	TX 2402MHz



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
	2356.200	32.06	7.93	34.53	48.32	53.78	74.00	20.22	Peak
	2390.000	31.89	7.95	34.54	47.11	52.41	74.00	21.59	Peak
@	2402.100	31.80	7.95	34.54	91.49	96.70	---	---	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
	2341.900	32.05	7.92	34.53	36.03	41.47	54.00	12.53	Average
	2390.000	31.89	7.95	34.54	35.33	40.63	54.00	13.37	Average
@	2402.100	31.80	7.95	34.54	88.96	94.17	---	---	Average

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

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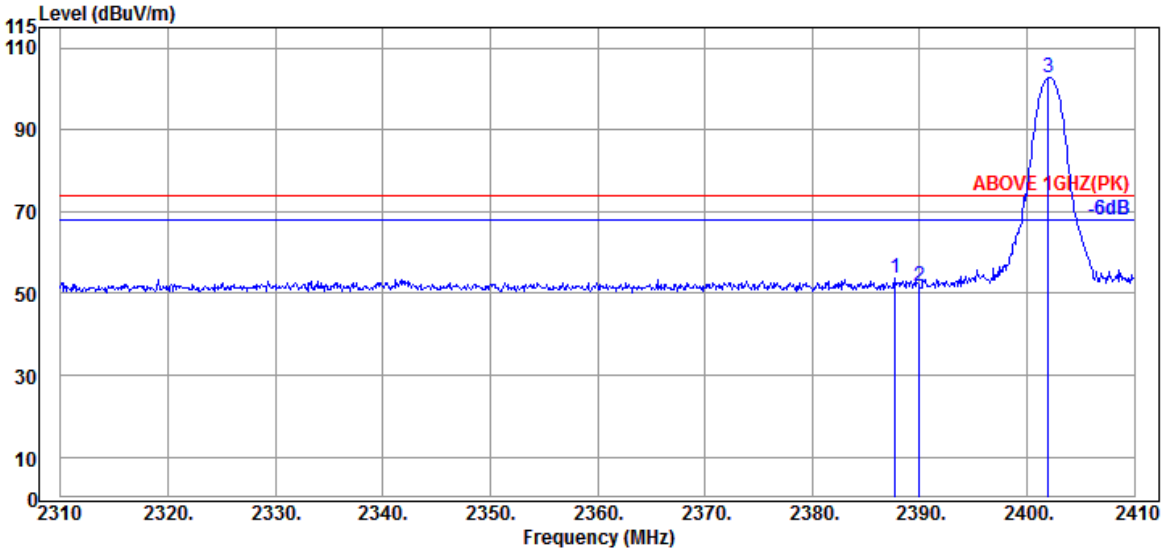
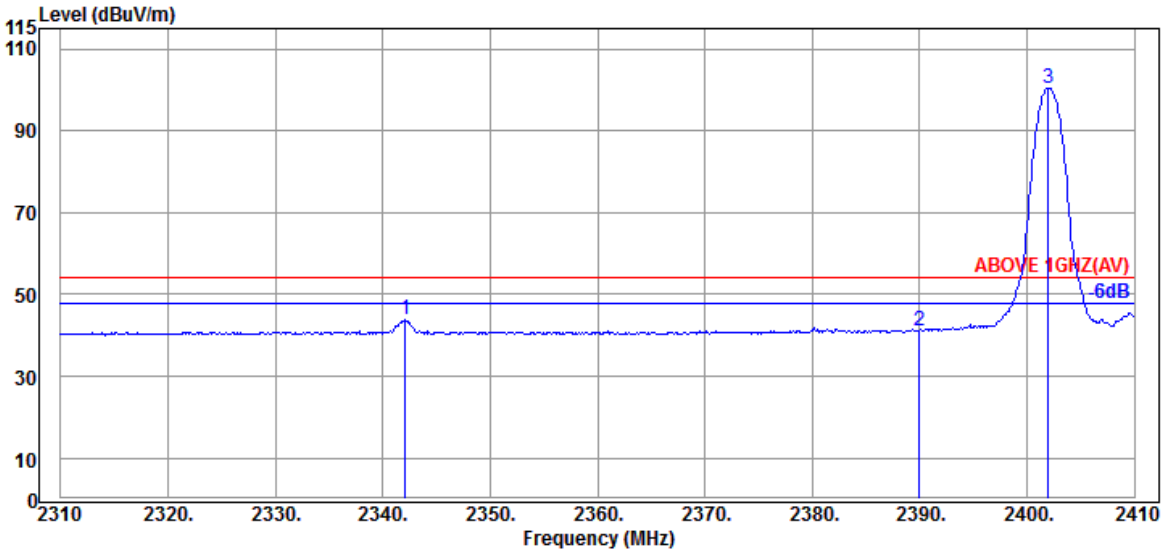
Mode	8-DPSK	Frequency	TX 2402MHz



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
	2387.700	31.89	7.95	34.53	48.36	53.67	74.00	20.33	Peak
	2390.000	31.89	7.95	34.54	46.44	51.74	74.00	22.26	Peak
@	2402.000	31.80	7.95	34.54	97.64	102.85	---	---	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
	2342.100	32.05	7.92	34.53	38.25	43.69	54.00	10.31	Average
	2390.000	31.89	7.95	34.54	35.69	40.99	54.00	13.01	Average
@	2402.000	31.80	7.95	34.54	95.24	100.45	---	---	Average

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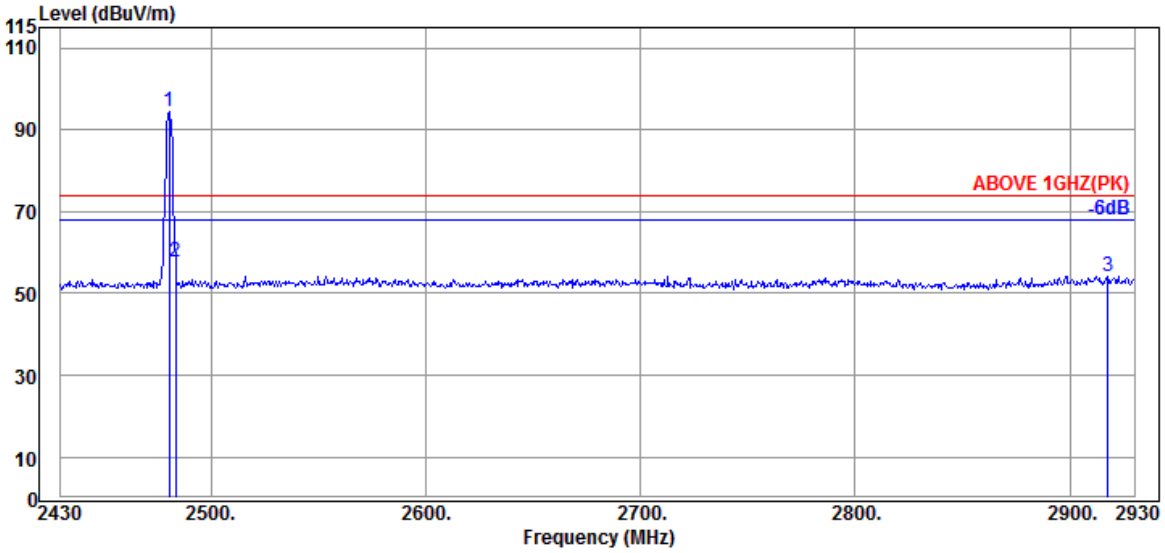
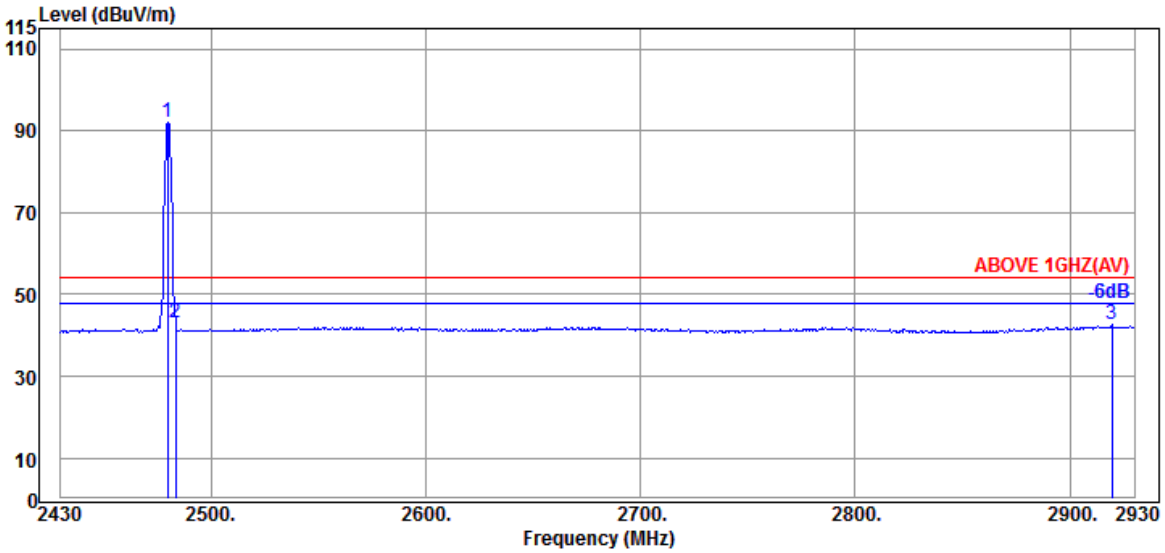
Mode	8-DPSK	Frequency	TX 2480MHz



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
@	2480.500	32.30	7.99	34.55	88.80	94.54	---	---	Peak
	2483.500	32.30	7.99	34.55	52.14	57.88	74.00	16.12	Peak
	2917.500	32.83	8.19	34.64	47.88	54.26	74.00	19.74	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
@	2480.000	32.30	7.99	34.55	86.31	92.05	---	---	Average
	2483.500	32.30	7.99	34.55	37.34	43.08	54.00	10.92	Average
	2919.500	32.90	8.19	34.64	36.04	42.49	54.00	11.51	Average

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

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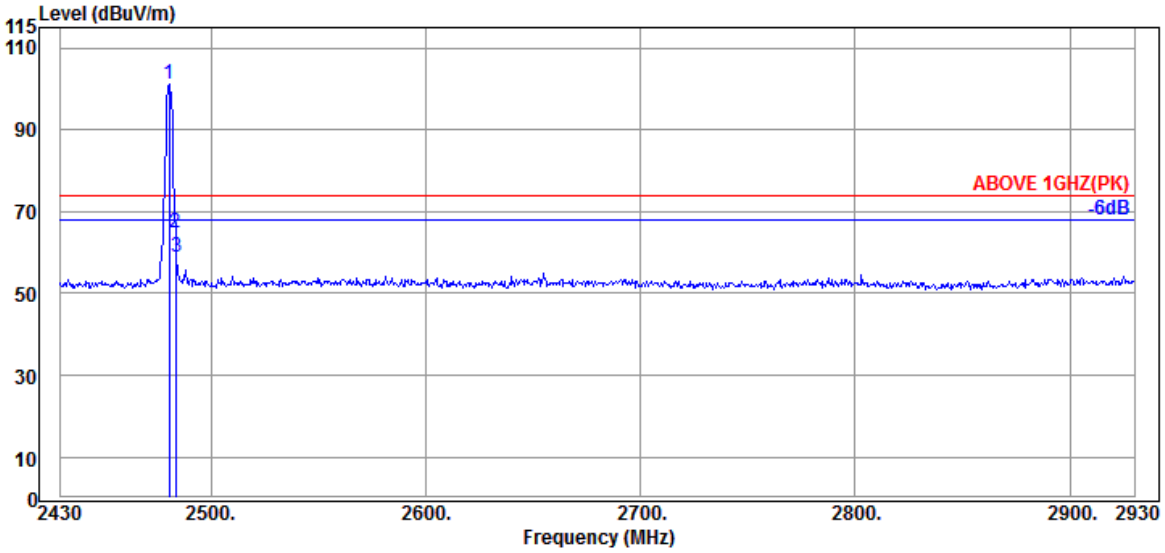
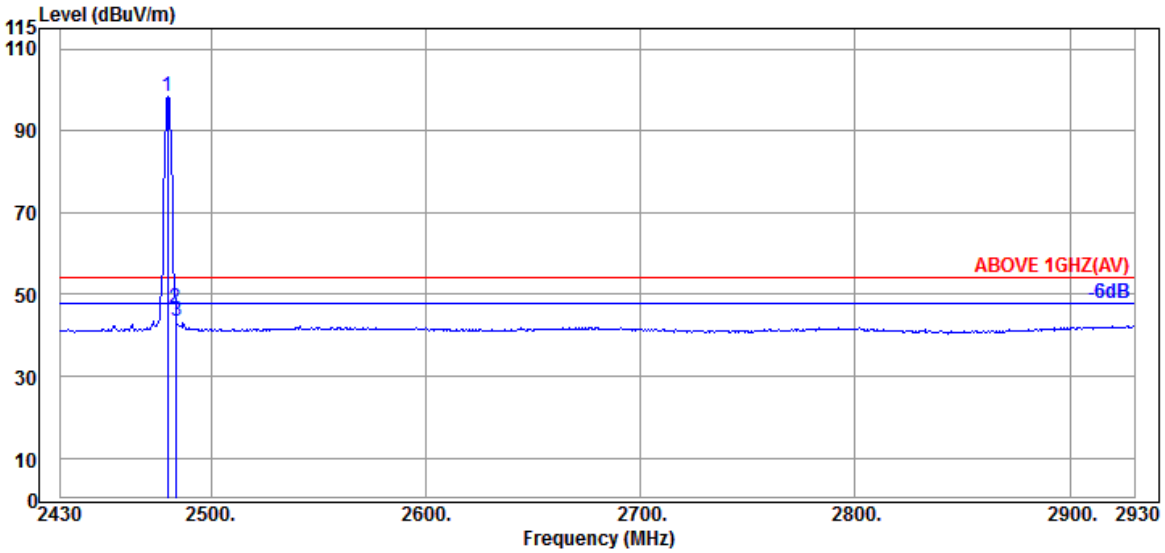
Mode	8-DPSK	Frequency	TX 2480MHz



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
@	2480.500	32.30	7.99	34.55	95.47	101.21	---	---	Peak
	2483.500	32.30	7.99	34.55	59.13	64.87	74.00	9.13	Peak
	2484.000	32.30	7.99	34.55	53.05	58.79	74.00	15.21	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
@	2480.000	32.30	7.99	34.55	92.82	98.56	---	---	Average
	2483.500	32.30	7.99	34.55	40.75	46.49	54.00	7.51	Average
	2484.000	32.30	7.99	34.55	37.70	43.44	54.00	10.56	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	GFSK	Frequency	TX 2402MHz

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
4804.000	33.60	10.49	34.44	31.95	41.60	54.00	12.40	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
4804.000	33.60	10.49	34.44	31.47	41.12	54.00	12.88	Peak

Mode	GFSK	Frequency	TX 2441MHz

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
4882.000	33.88	10.54	34.43	32.40	42.39	54.00	11.61	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
4882.000	33.88	10.54	34.43	33.42	43.41	54.00	10.59	Peak

Mode	GFSK	Frequency	TX 2480MHz

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
4960.000	33.83	10.60	34.41	31.47	41.49	54.00	12.51	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
4960.000	33.83	10.60	34.41	31.79	41.81	54.00	12.19	Peak

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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.

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A.3 20dB BANDWIDTH

Test Date	2019/09/18	Temp./Hum.	25℃/51%
Cable Loss	0.50dB	Tested By	Martin Chen
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	0.9217	0.86410	0.614
	2441	0.9232	0.86892	0.615
	2480	0.9220	0.86466	0.615
8-DPSK	2402	1.386	1.3581	0.924
	2441	1.386	1.3566	0.924
	2480	1.389	1.3547	0.926

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

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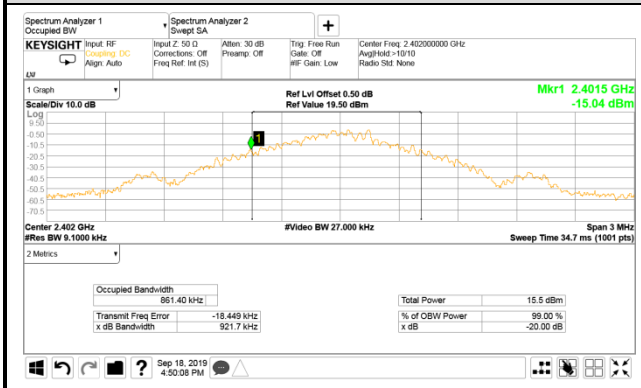
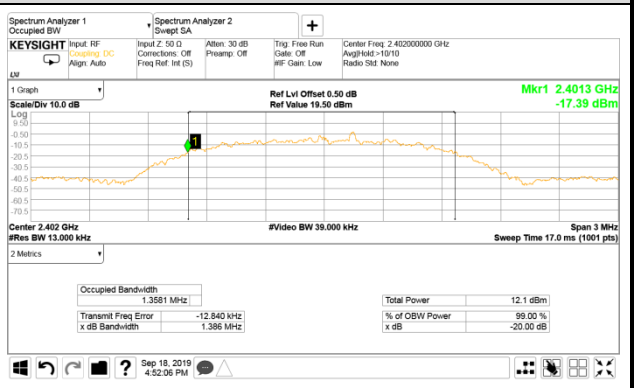
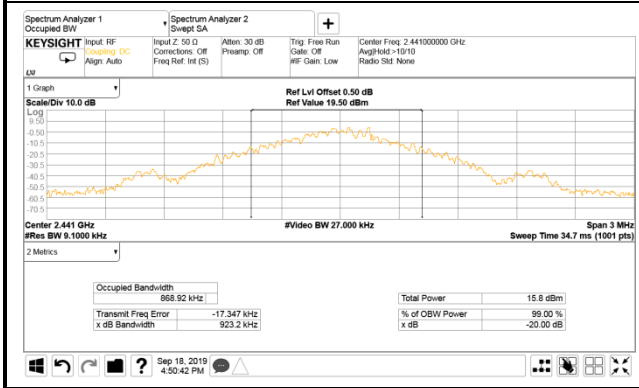
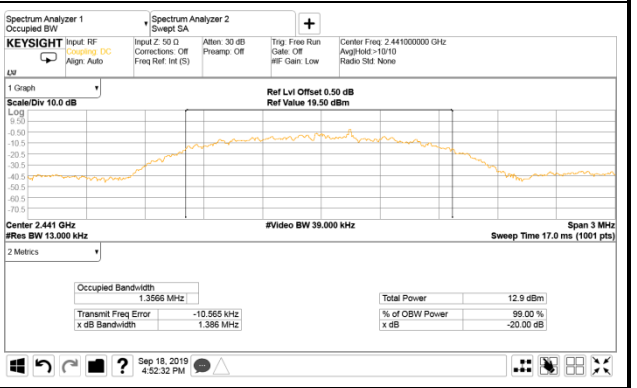
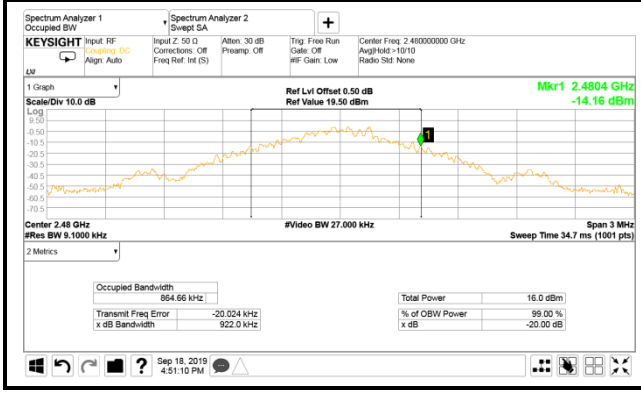
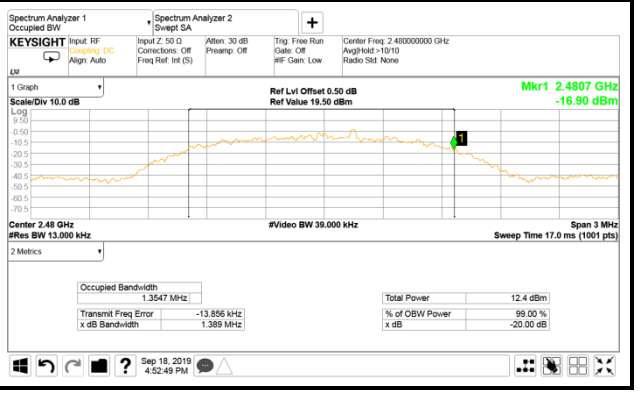
A.3.2 Measurement Plots

GFSK	8-DPSK
	
	
	

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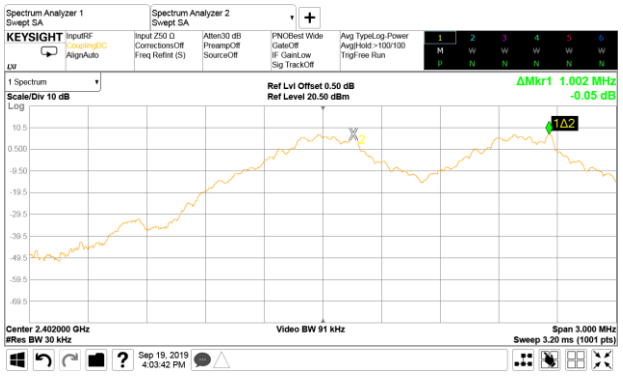
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2019/09/19	Temp./Hum.	25℃/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

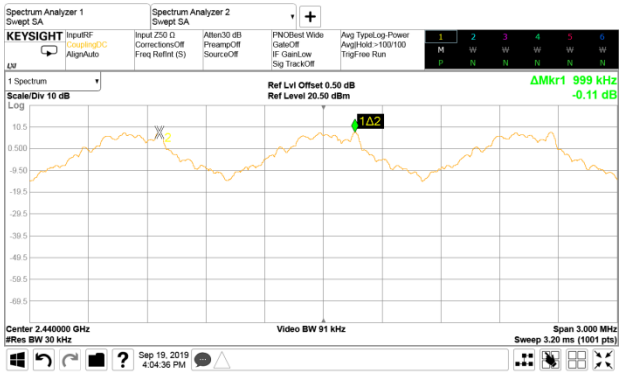
GFSK

2402MHz



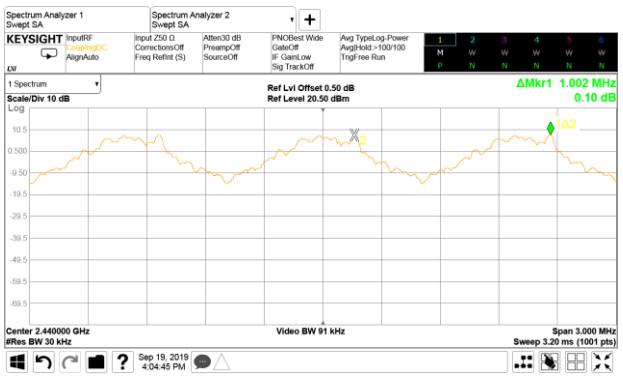
2441MHz

adjacent channel of left carrier frequency

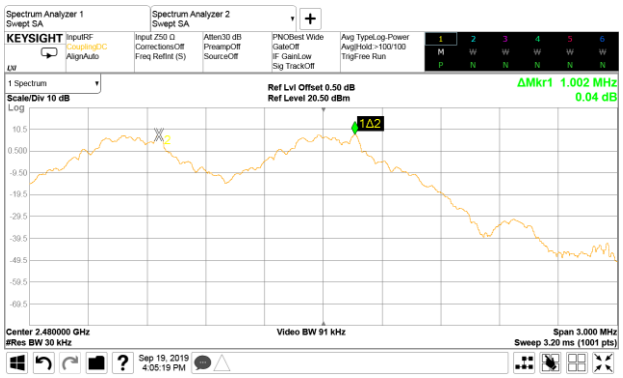


2441MHz

adjacent channel of right carrier frequency



2480MHz



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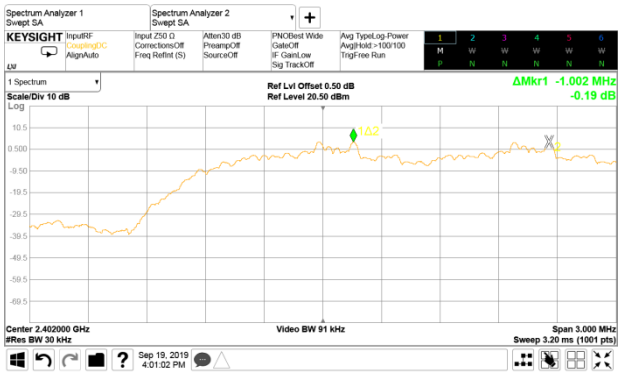
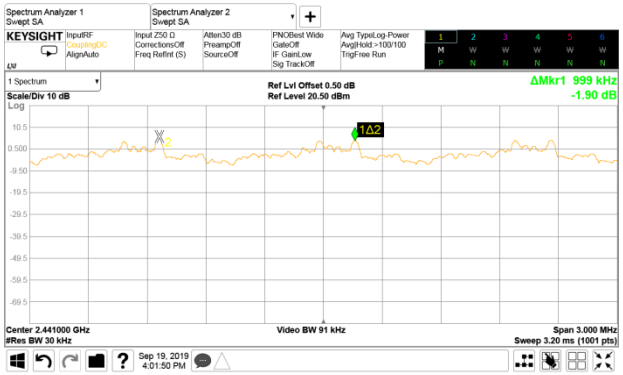
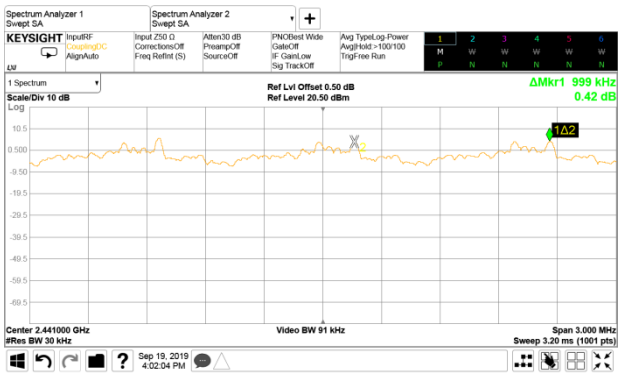
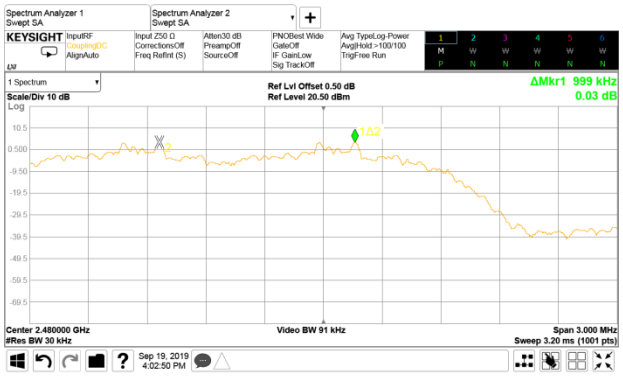
8-DPSK	
2402MHz	2441MHz adjacent channel of left carrier frequency
	
2441MHz adjacent channel of right carrier frequency	2480MHz
	

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A.5 TIME OF OCCUPANCY

Test Date	2019/09/19	Temp./Hum.	25℃/54%
Cable Loss	0.50dB	Tested By	Martin Chen
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	0.380	120.080	<400
		DH3	5	1.635	258.330	<400
		DH5	3	2.880	273.024	<400

Observation Period:
79 channels* **0.4** seconds= **31.6** seconds

DH1 Mode
For each second of **10** transmission appearance,the longest time of occupancy is
10 transmission* **31.6** seconds* **0.380** ms= **120.080** ms (<400ms)

DH3 Mode
For each second of **5** transmission appearance,the longest time of occupancy is
5 transmission* **31.6** seconds* **1.635** ms= **258.330** 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	2440	DH1	10	0.380	120.080	<400
		DH3	5	1.635	258.330	<400
		DH5	3	2.880	273.024	<400

Observation Period:
79 channels* **0.4** seconds= **31.6** seconds

DH1 Mode
For each second of **10** transmission appearance,the longest time of occupancy is
10 transmission* **31.6** seconds* **0.380** ms= **120.080** ms (<400ms)

DH3 Mode
For each second of **5** transmission appearance,the longest time of occupancy is
5 transmission* **31.6** seconds* **1.635** ms= **258.330** ms (<400ms)

DH5 Mode
For each second of **3** transmission appearance,the longest time of occupancy is
3 transmission* **31.6** seconds* **2.880** ms= **273.024** ms (<400ms)

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Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2480	DH1	10	0.380	120.080	<400
		DH3	5	1.635	258.330	<400
		DH5	3	2.880	273.024	<400

Observation Period:

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

DH1 Mode

For each second of **10** transmission appearance,the longest time of occupancy is

10 transmission* **31.6** seconds* **0.380** ms= **120.080** ms (<400ms)

DH3 Mode

For each second of **5** transmission appearance,the longest time of occupancy is

5 transmission* **31.6** seconds* **1.635** ms= **258.330** 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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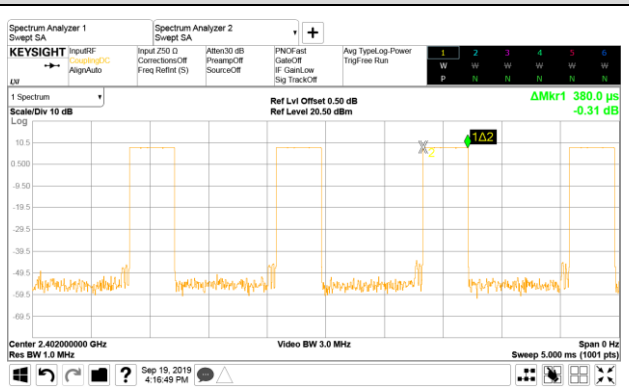
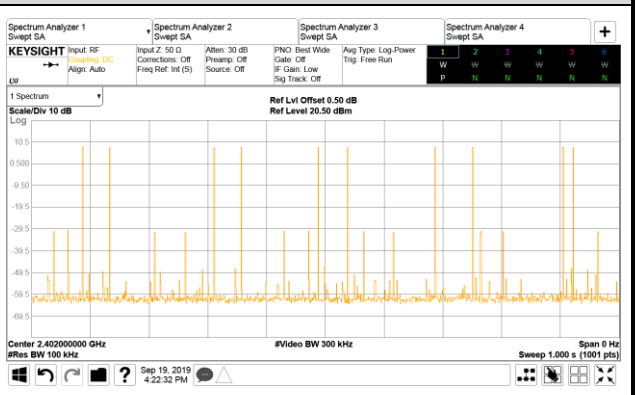
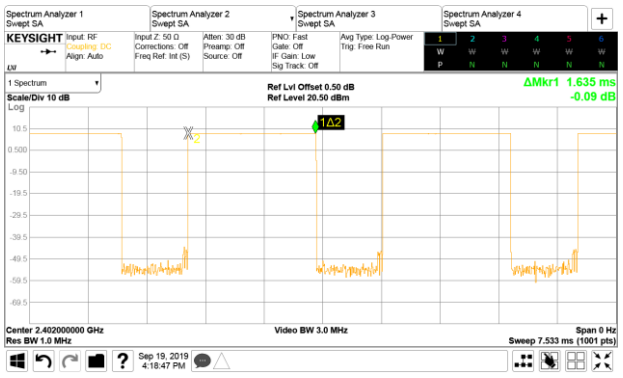
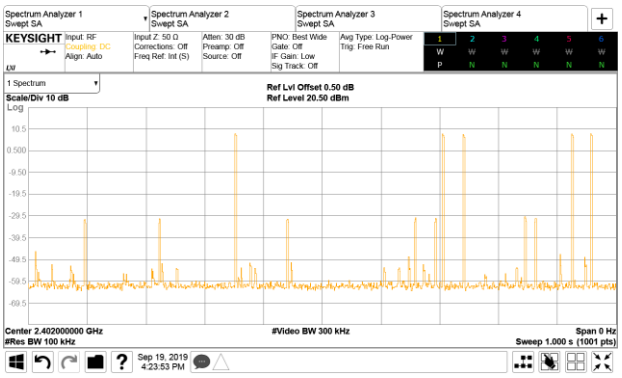
- Measurement Plots

GFSK	
2402MHz	
DH1	
	
DH3	
	
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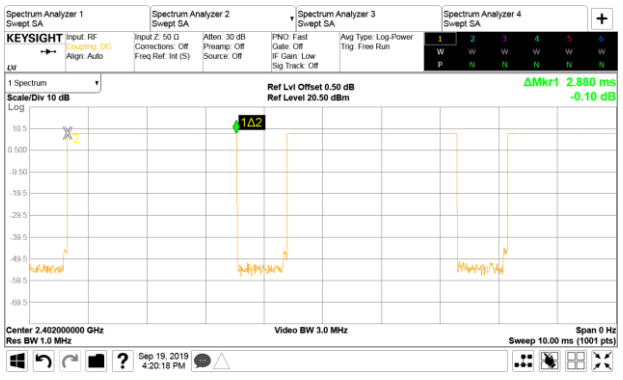	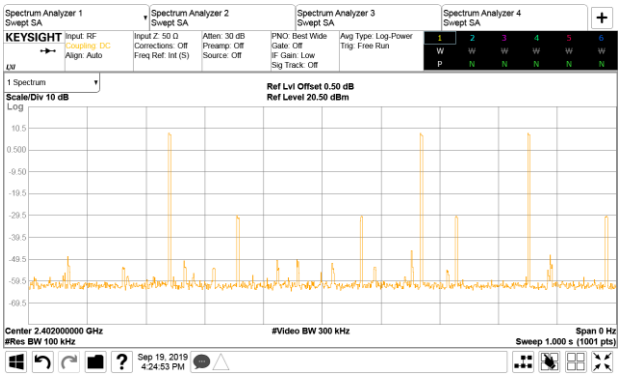

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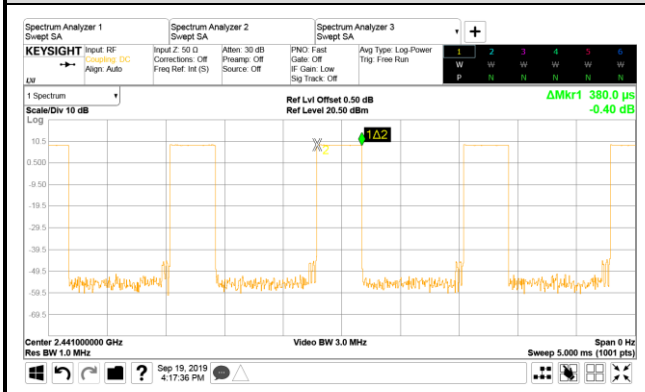
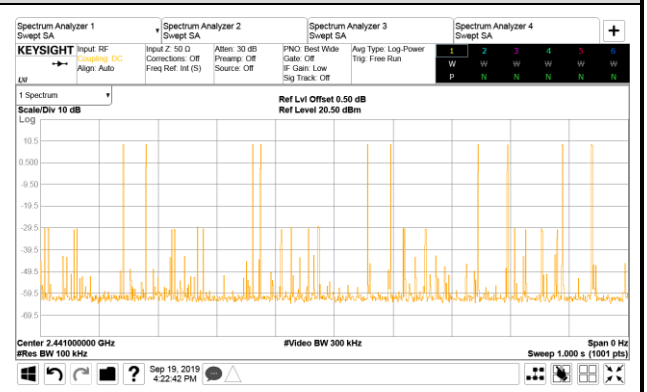
GFSK	
2441MHz	
DH1	
	
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	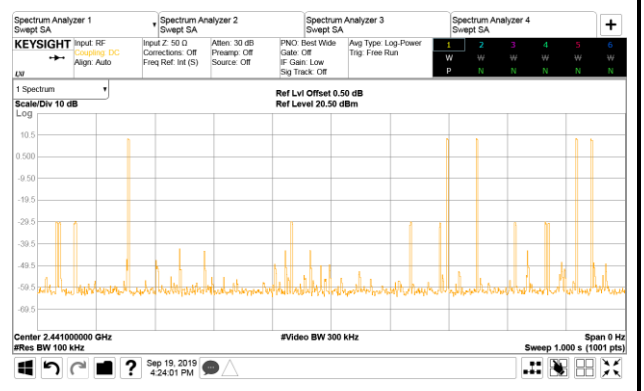
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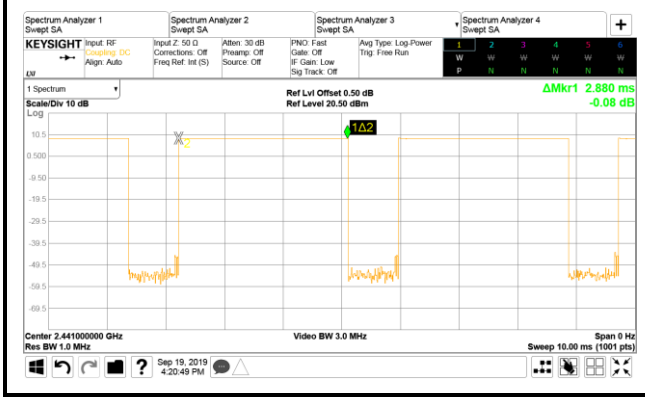	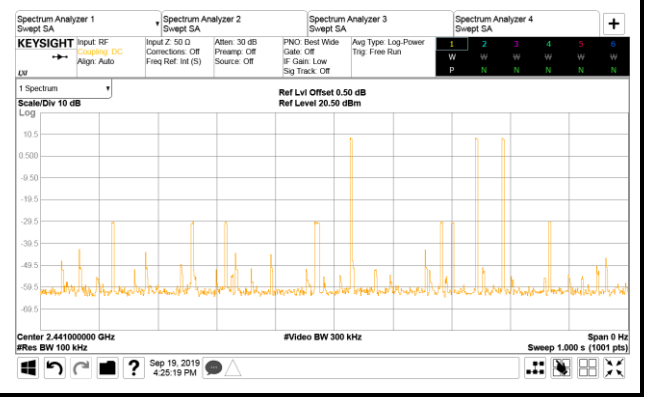

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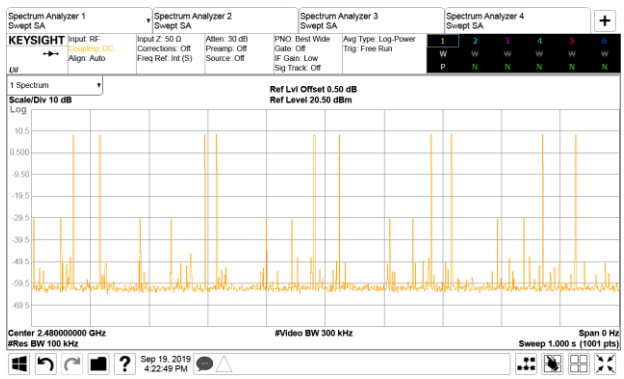
GFSK
2480MHz
DH1



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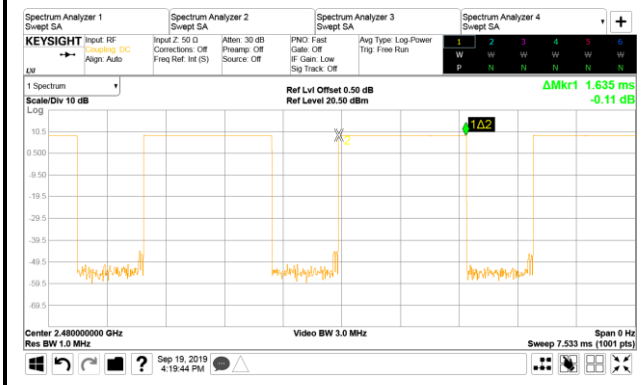

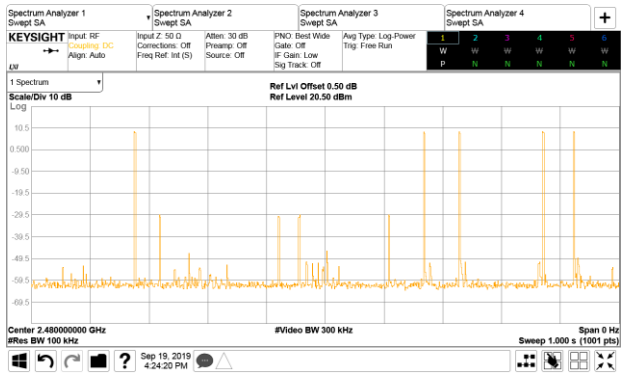

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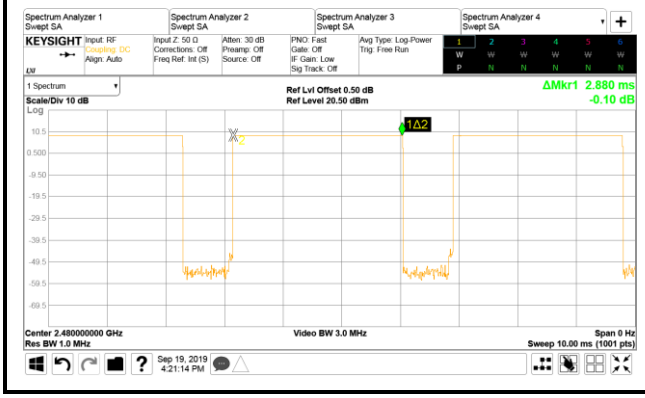

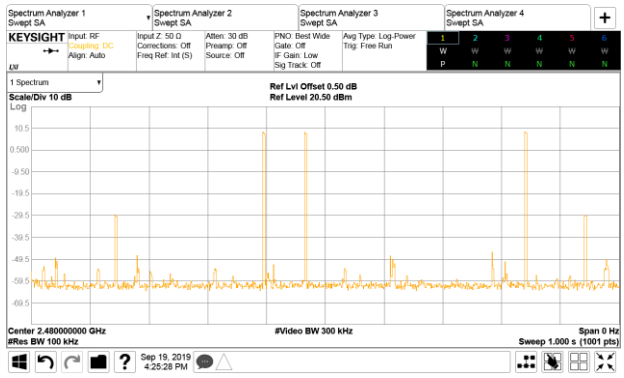

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Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2402	3DH1	10	0.390	123.240	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.890	273.972	<400

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* **0.390** ms= **123.240** 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 **3** transmission appearance,the longest time of occupancy is

3 transmission* **31.6** seconds* **2.890** ms= **273.972** 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	0.390	123.240	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.890	273.972	<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* **0.390** ms= **123.240** 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 **3** transmission appearance,the longest time of occupancy is

3 transmission* **31.6** seconds* **2.890** ms= **273.972** 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	0.390	123.240	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.890	273.972	<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* **0.390** ms= **123.240** 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 **3** transmission appearance,the longest time of occupancy is

3 transmission* **31.6** seconds* **2.890** ms= **273.972** ms (<400ms)

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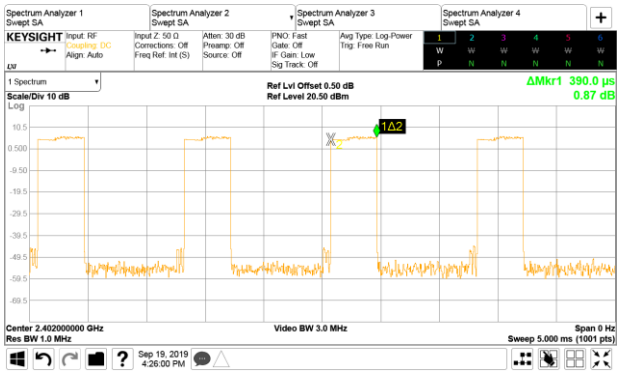
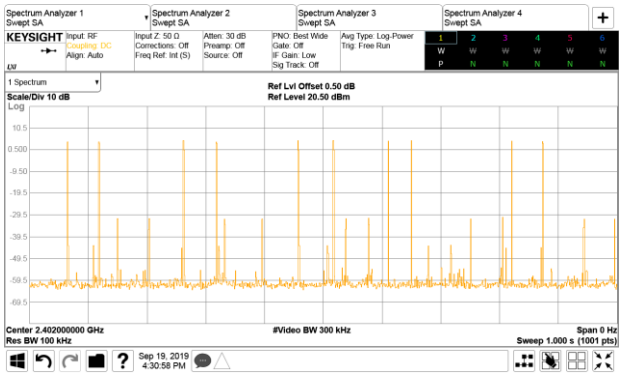
- Measurement Plots

8-DPSK	
2402MHz	
3DH1	
	
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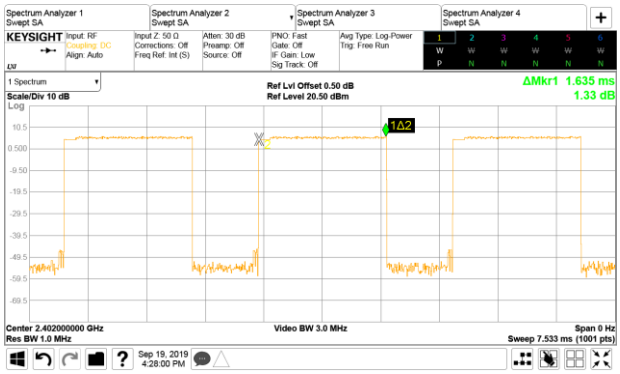	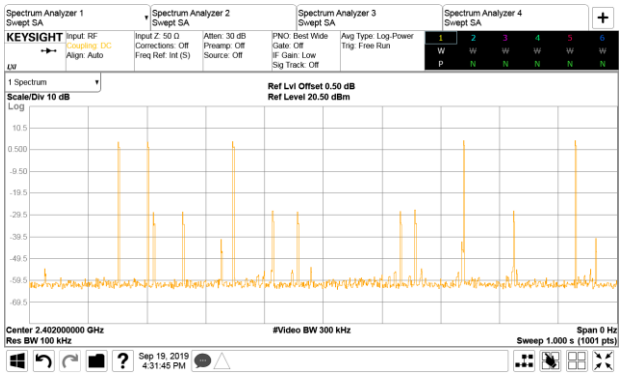
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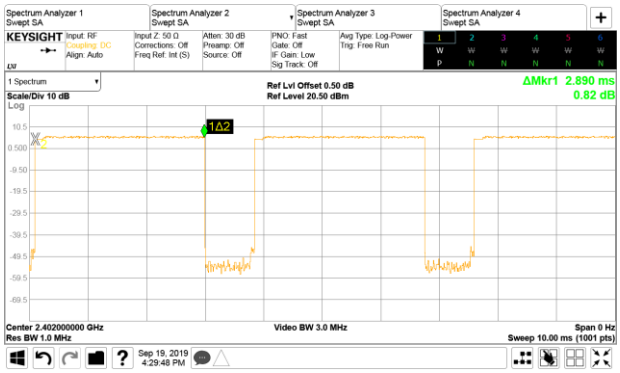	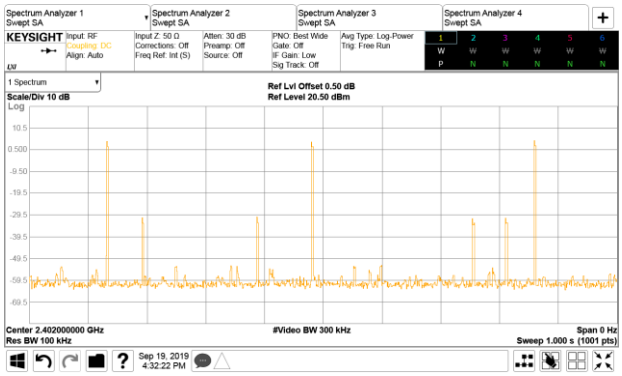

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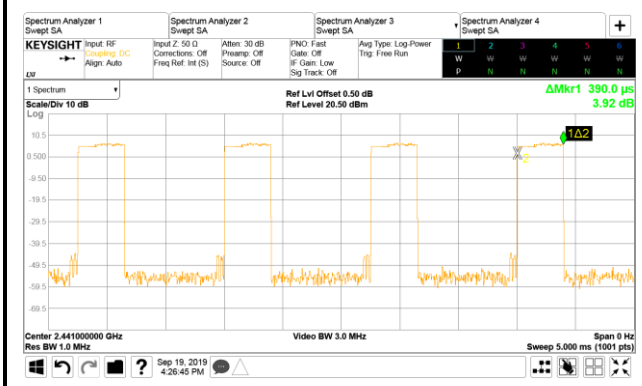
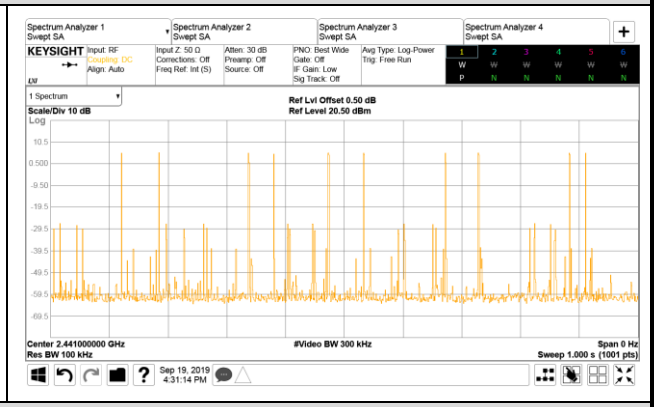
8-DPSK	
2441MHz	
3DH1	
	
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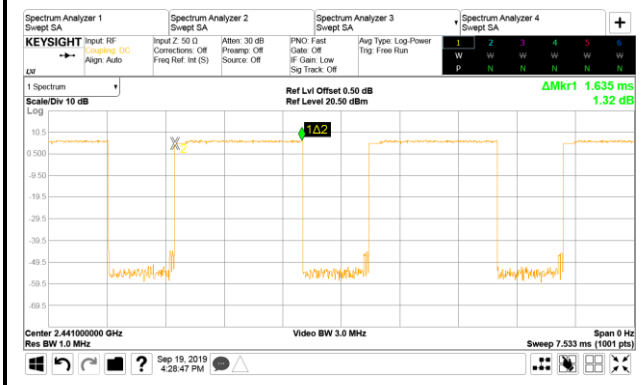	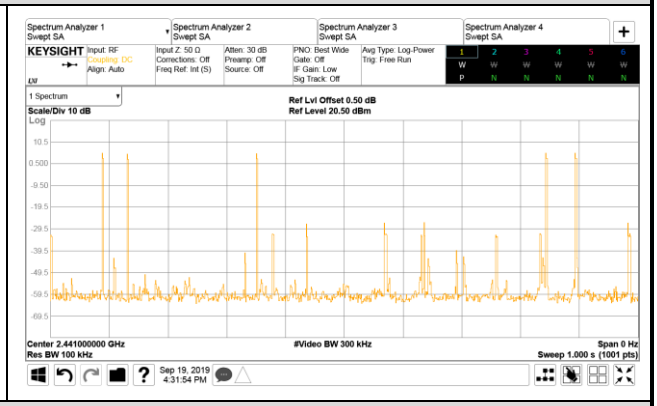
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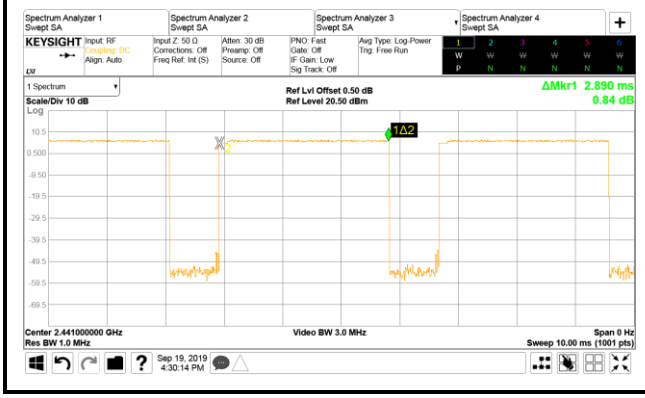	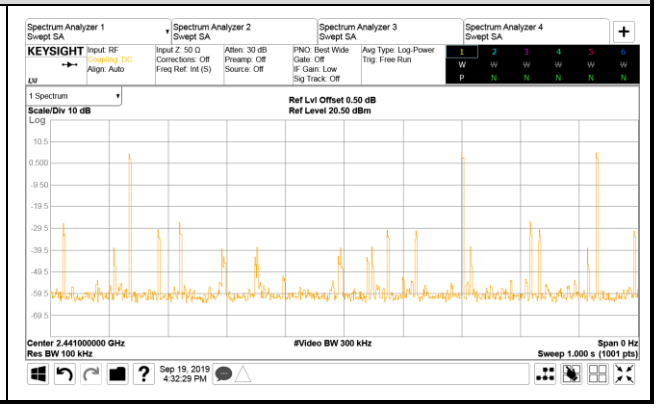

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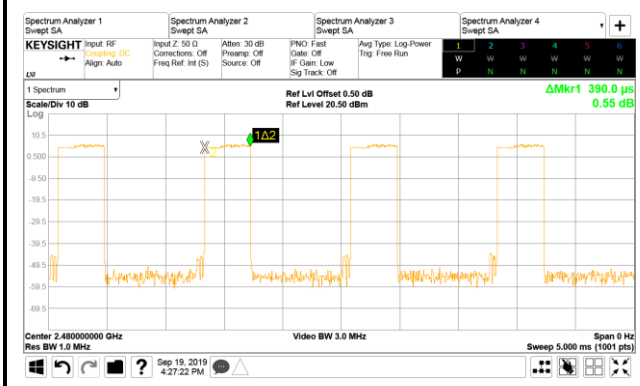
8-DPSK
2480MHz
3DH1
 
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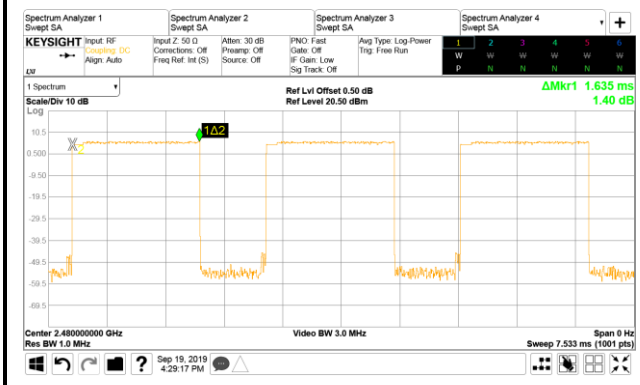 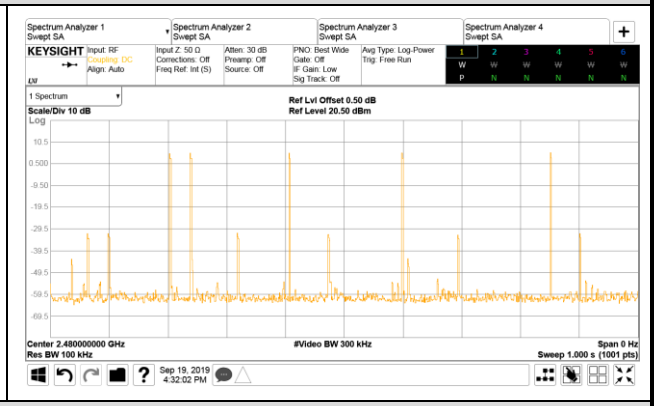
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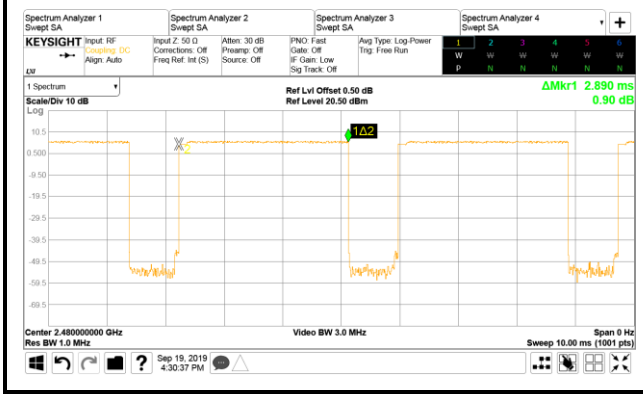 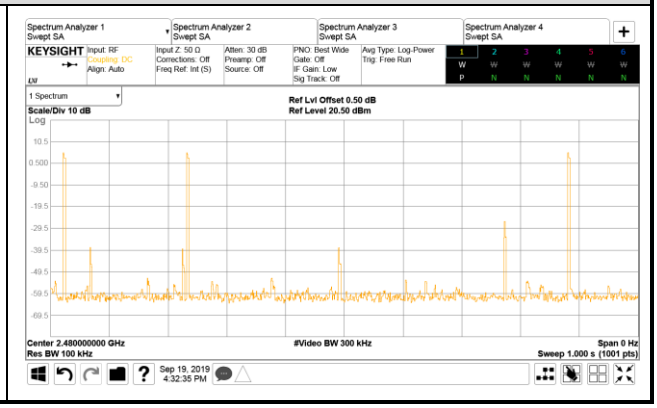

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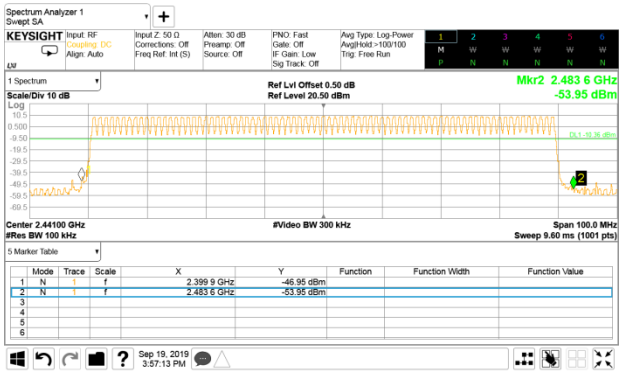
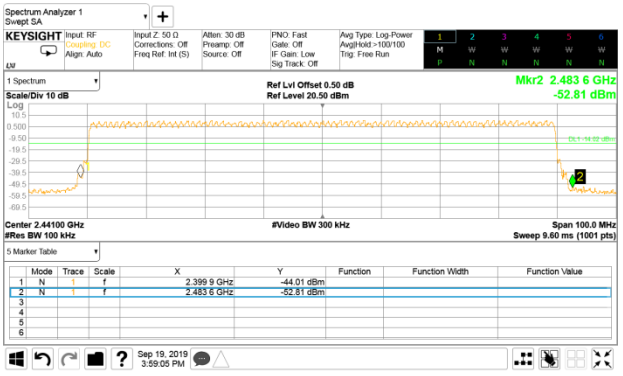
A.6 NUMBER OF HOPPING CHANNELS

Test Date	2019/09/19	Temp./Hum.	25℃/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

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

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A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2019/09/18, 2021/08/12	Temp./Hum.	25℃/51%, 24℃/54%
Cable Loss	0.50dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.7.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.14	0.008	21dBm (0.125W)
	2441	9.59	0.009	
	2480	9.48	0.009	
8-DPSK	2402	6.89	0.005	
	2441	7.55	0.006	
	2480	7.00	0.005	

SPOT CHECK

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.14	0.008	21dBm (0.125W)
	2441	9.59	0.009	
	2480	9.48	0.009	
8-DPSK	2402	6.89	0.005	
	2441	7.55	0.006	
	2480	7.00	0.005	

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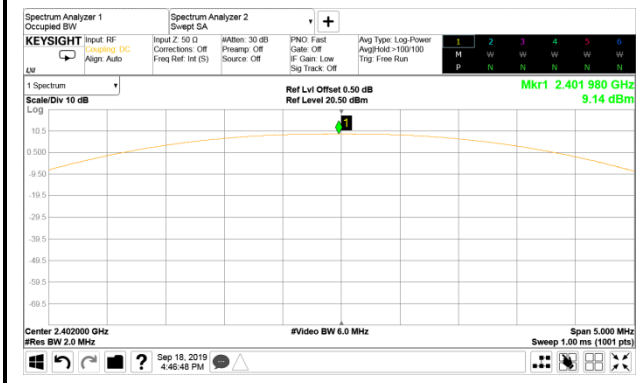
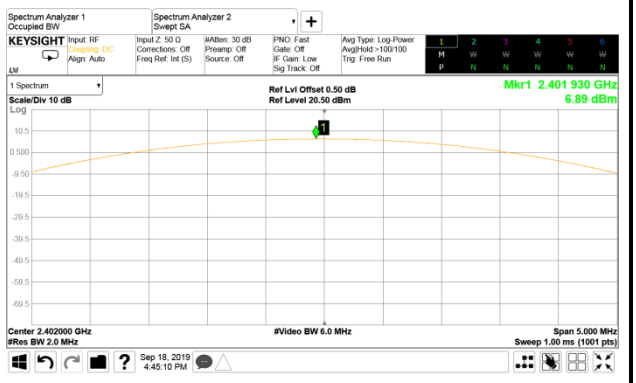
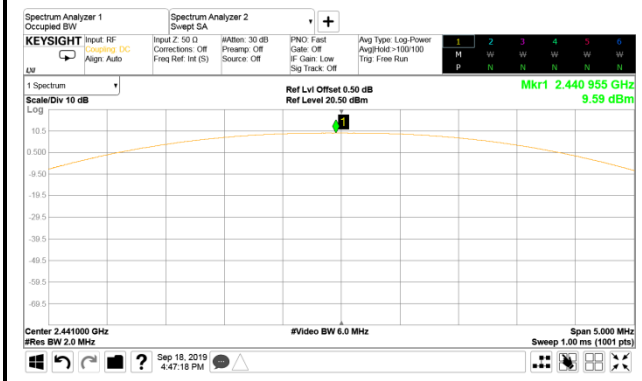
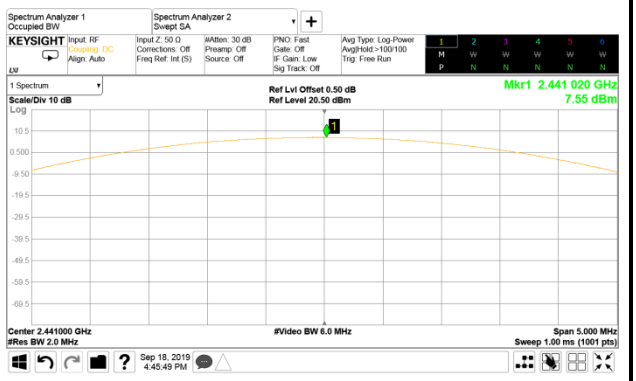
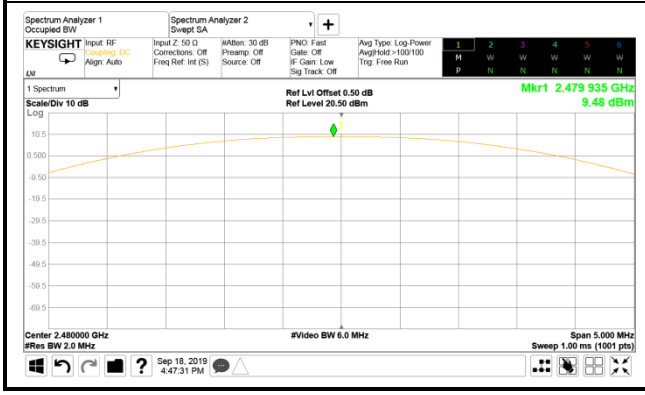
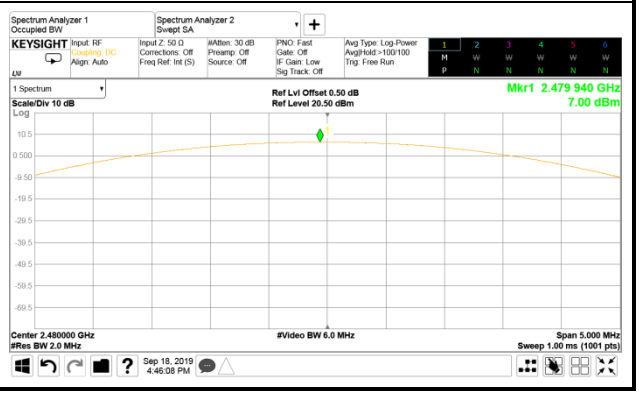
A.7.2 Measurement Plots

GFSK	8-DPSK
	
	
	

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A.8 EMISSION LIMITATIONS MEASUREMENT

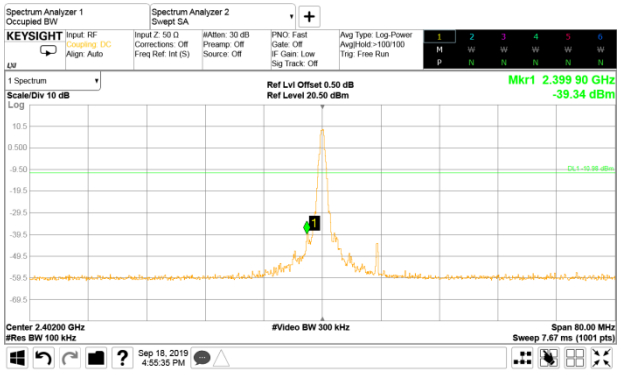
Test Date	2019/09/18 ~ 19	Temp./Hum.	25℃/51 ~ 54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge

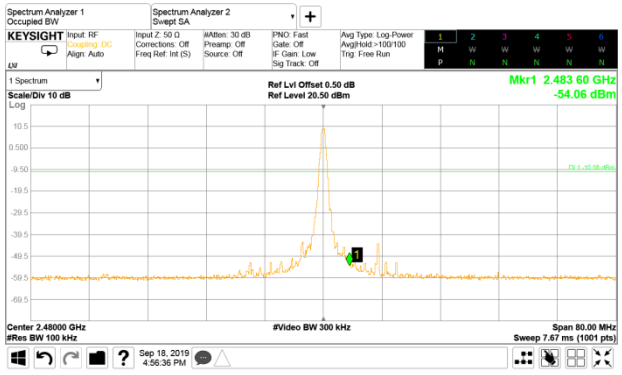
GFSK

Single Channel

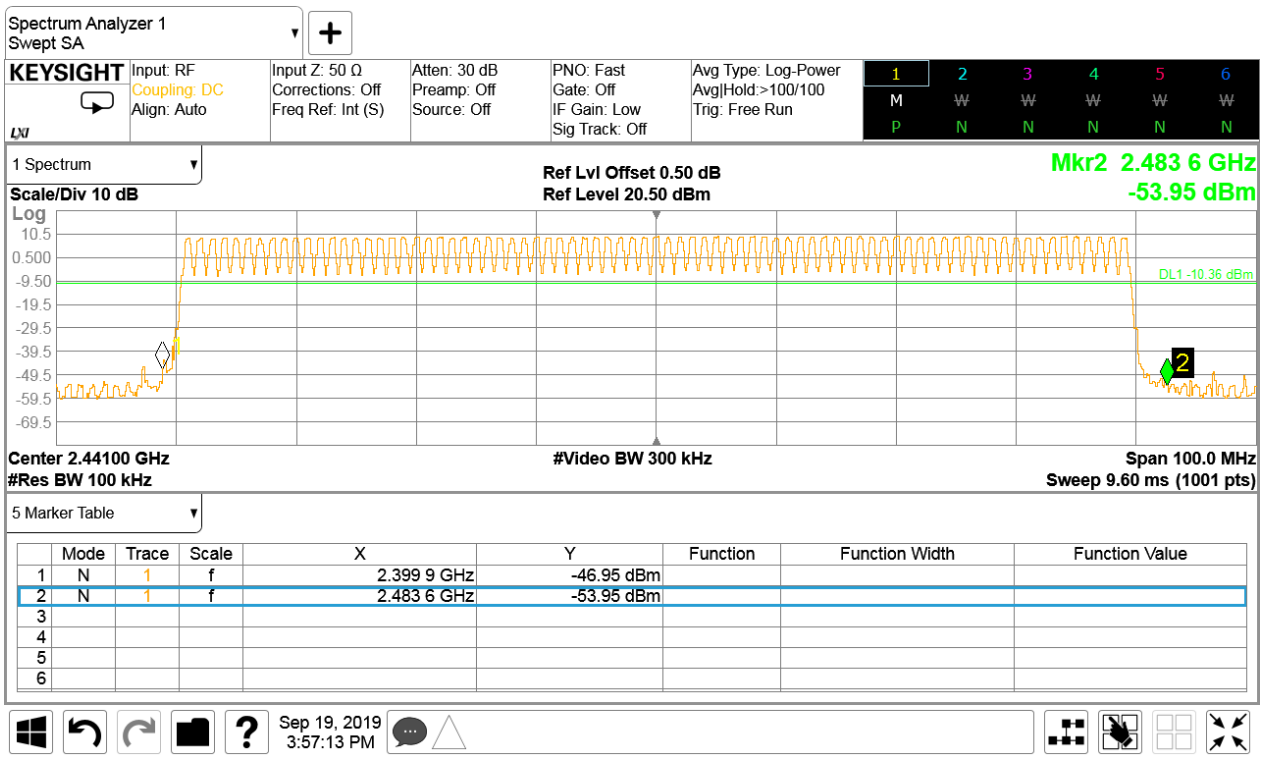
Low channel



High channel



Hopping Mode



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.399 9 GHz	-46.95 dBm			
2	N	1	f	2.483 6 GHz	-53.95 dBm			
3								
4								
5								
6								

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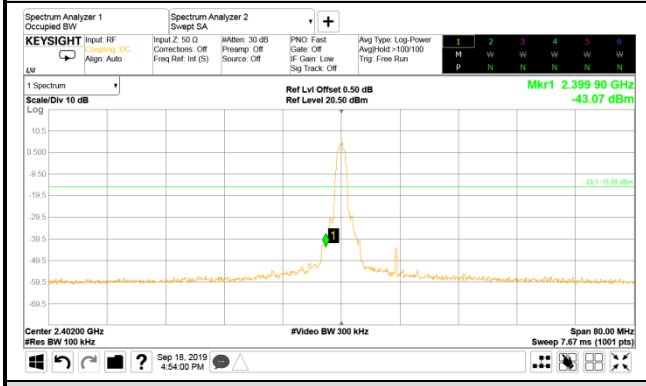
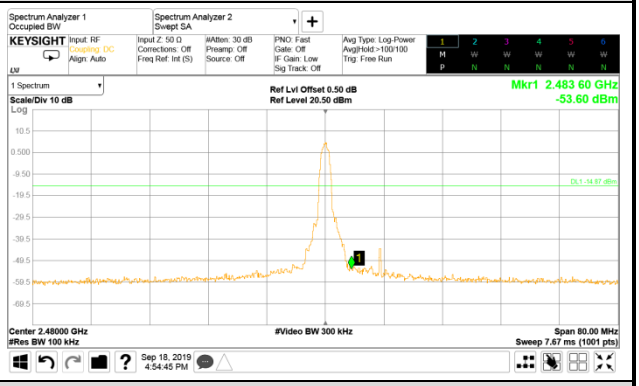
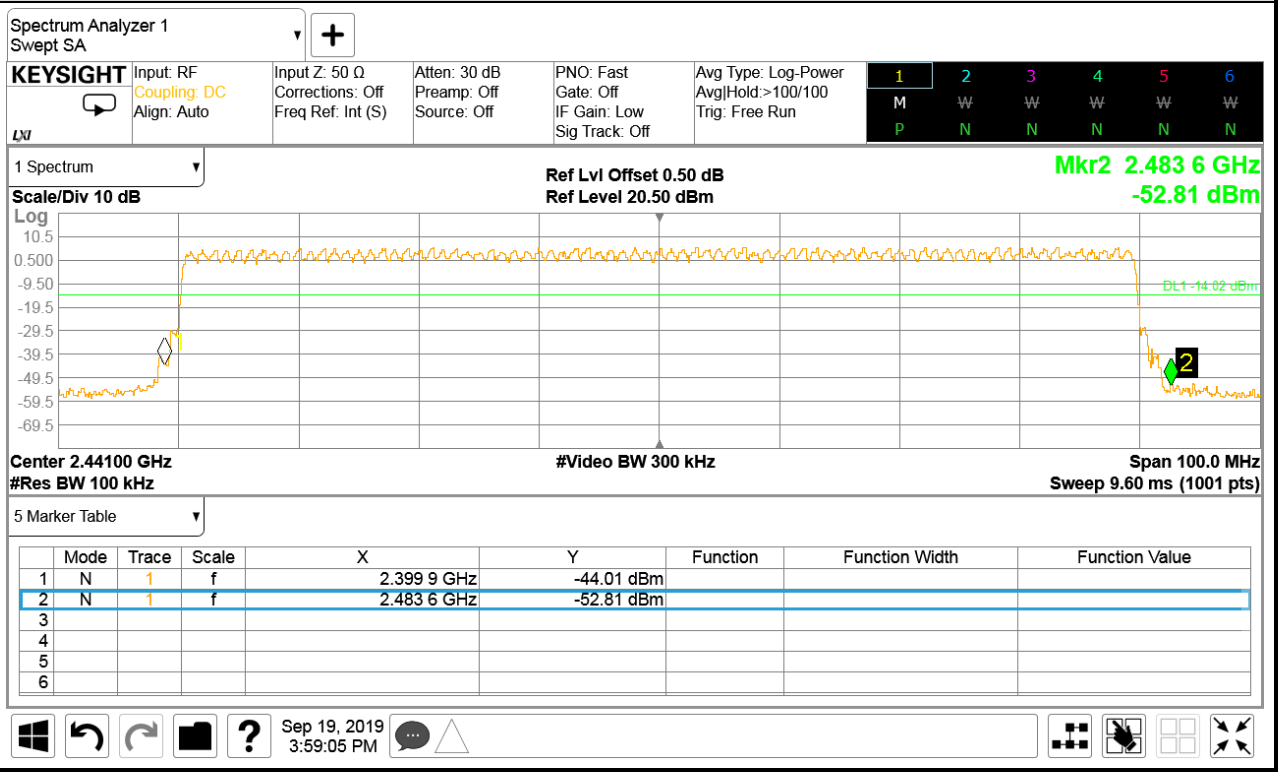
8-DPSK

Single Channel

Low channel	High channel
	

Hopping Mode



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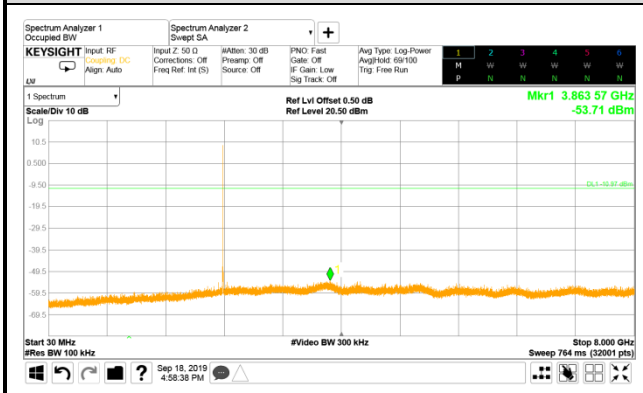
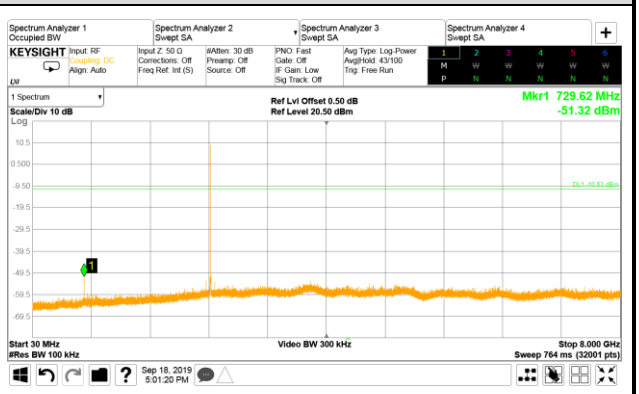
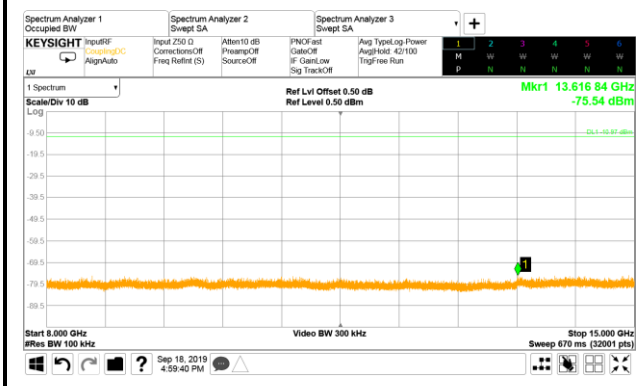
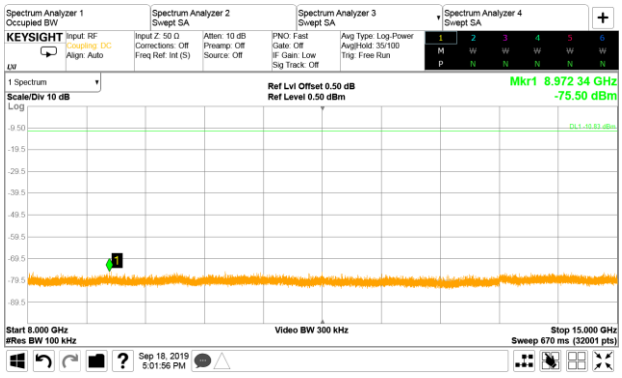
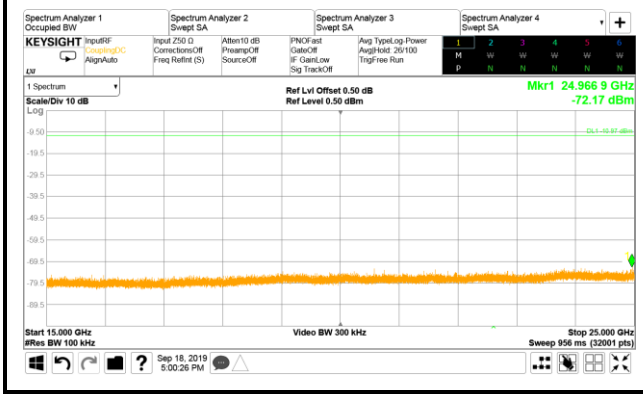
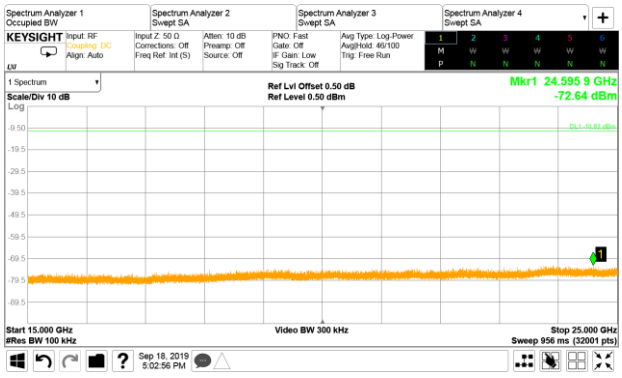
A.8.2 Spurious Emission

GFSK	
2402MHz	2441MHz
30MHz –8GHz	30MHz –8GHz
	
8GHz –15GHz	8GHz –15GHz
	
15GHz – 25GHz	15GHz – 25GHz
	

Note: All results have been included cable loss.

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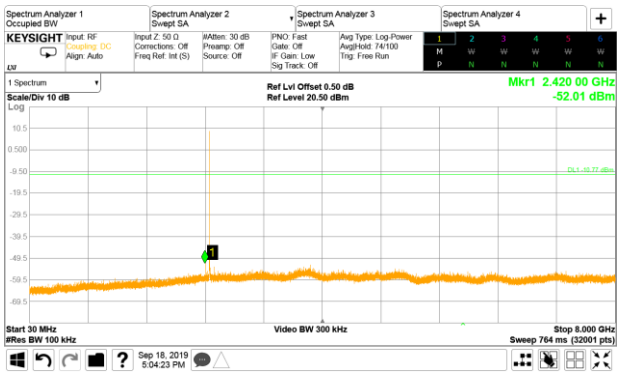
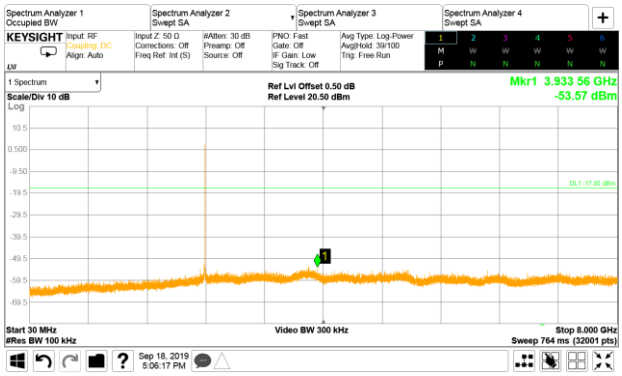
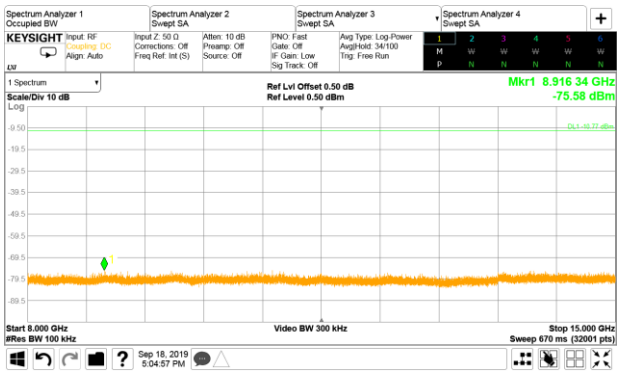
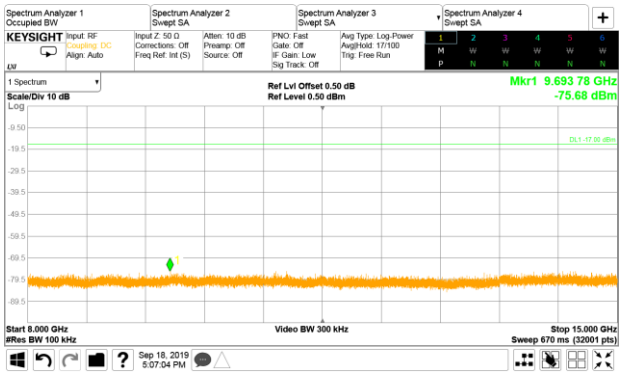
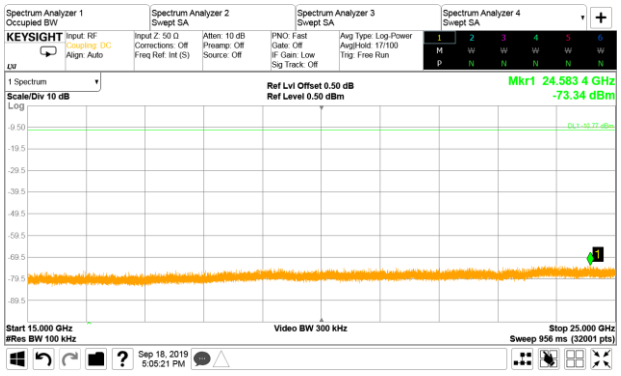
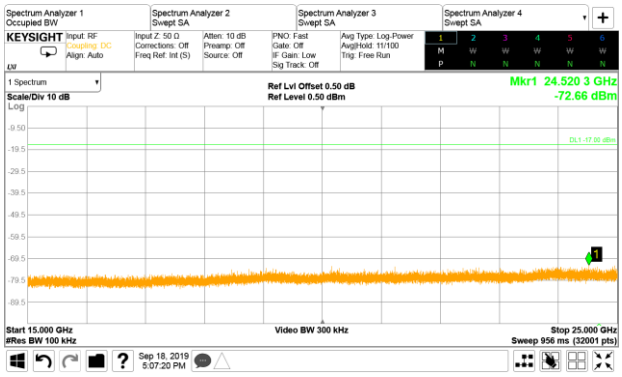
GFSK	8-DPSK
2480MHz	2402MHz
30MHz –8GHz	30MHz –8GHz
	
8GHz –15GHz	8GHz –15GHz
	
15GHz – 25GHz	15GHz – 25GHz
	

Note: All results have been included cable loss.

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