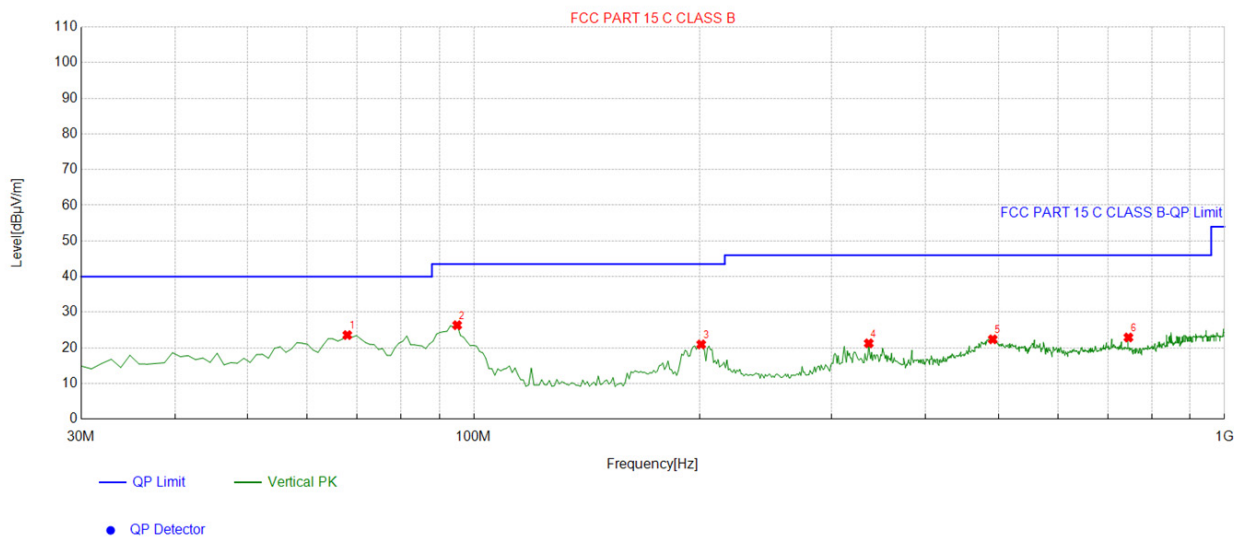




Vertical



Suspected List

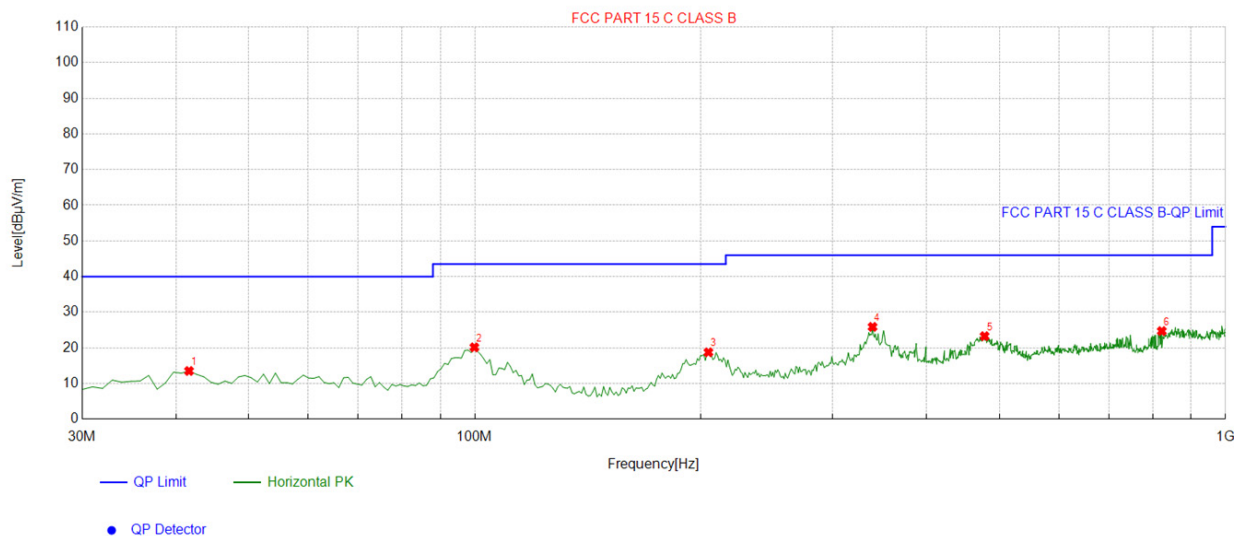
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	67.867868	-16.02	39.61	23.59	40.00	16.41	100	94	Vertical
2	95.055055	-15.40	41.76	26.36	43.50	17.14	100	217	Vertical
3	200.89089	-15.16	36.13	20.97	43.50	22.53	100	0	Vertical
4	335.85585	-10.57	31.84	21.27	46.00	24.73	100	42	Vertical
5	491.21121	-7.88	30.27	22.39	46.00	23.61	100	320	Vertical
6	744.63463	-3.42	26.34	22.92	46.00	23.08	100	91	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: I15 Ultra

Horizontal



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.651652	-13.41	26.94	13.53	40.00	26.47	100	3	Horizontal
2	99.90991	-14.70	34.85	20.15	43.50	23.35	100	2	Horizontal
3	204.77477	-15.31	34.07	18.76	43.50	24.74	100	72	Horizontal
4	338.76876	-10.40	36.29	25.89	46.00	20.11	100	75	Horizontal
5	477.61761	-8.24	31.52	23.28	46.00	22.72	100	104	Horizontal
6	822.31231	-2.73	27.44	24.71	46.00	21.29	100	239	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List

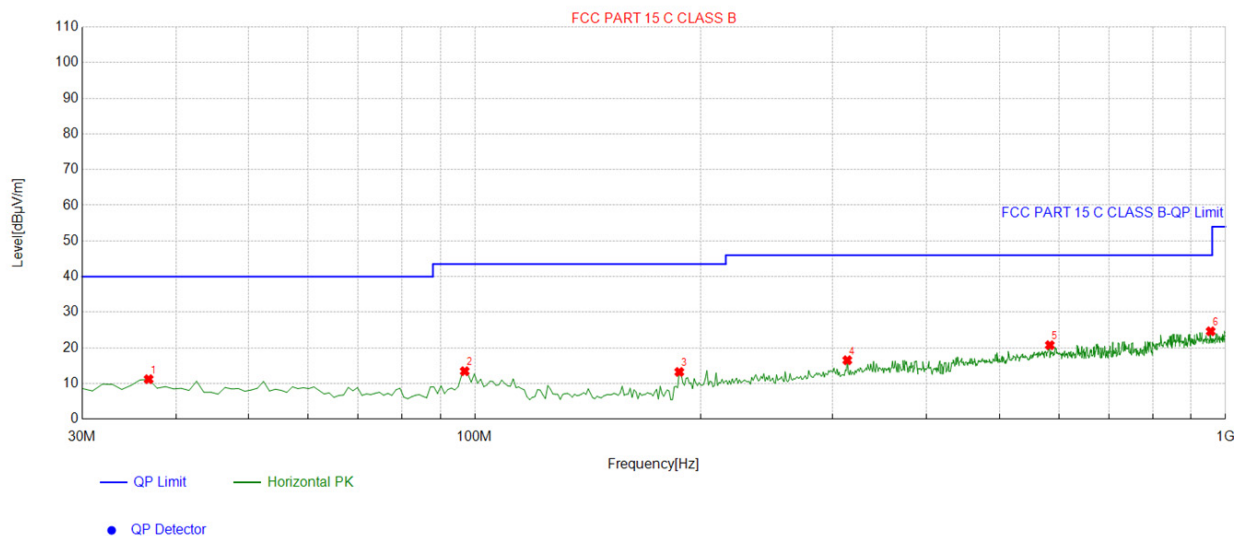
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.983984	-14.38	40.10	25.72	40.00	14.28	100	97	Vertical
2	100.88088	-14.60	37.59	22.99	43.50	20.51	100	287	Vertical
3	212.54254	-14.82	33.15	18.33	43.50	25.17	100	358	Vertical
4	350.42042	-10.05	29.47	19.42	46.00	26.58	100	264	Vertical
5	454.31431	-8.83	28.95	20.12	46.00	25.88	100	314	Vertical
6	669.86987	-4.39	25.95	21.56	46.00	24.44	100	270	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: C7 Ultra

Horizontal



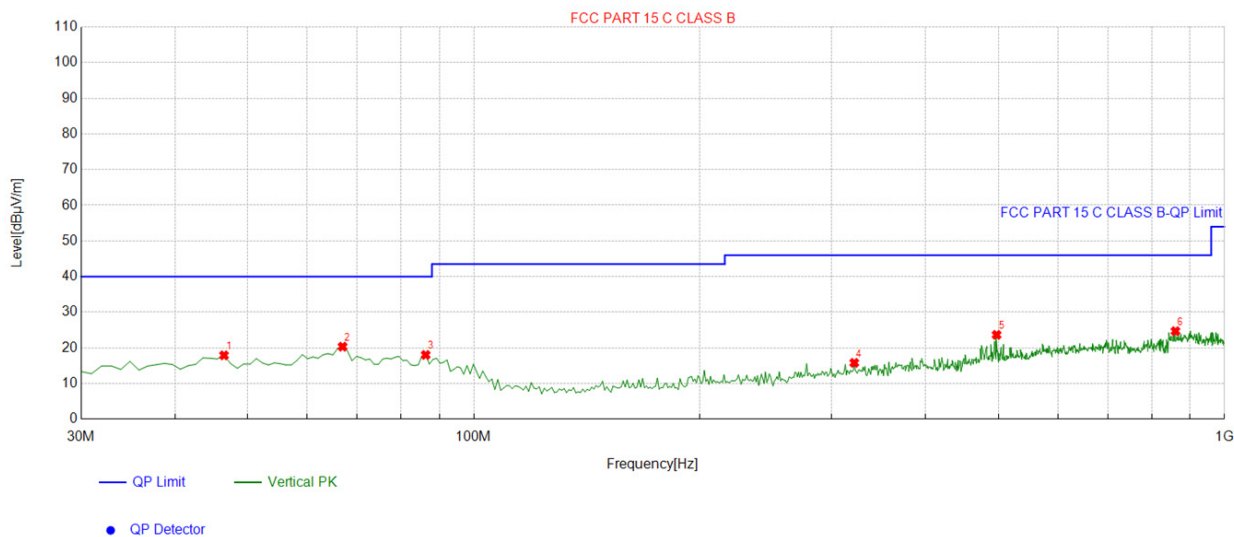
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.796797	-14.57	25.78	11.21	40.00	28.79	100	174	Horizontal
2	96.996997	-14.95	28.41	13.46	43.50	30.04	100	1	Horizontal
3	187.29729	-15.84	29.09	13.25	43.50	30.25	100	224	Horizontal
4	313.52352	-11.54	28.07	16.53	46.00	29.47	100	281	Horizontal
5	583.45345	-5.58	26.33	20.75	46.00	25.25	100	38	Horizontal
6	955.33533	-0.89	25.53	24.64	46.00	21.36	100	23	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List

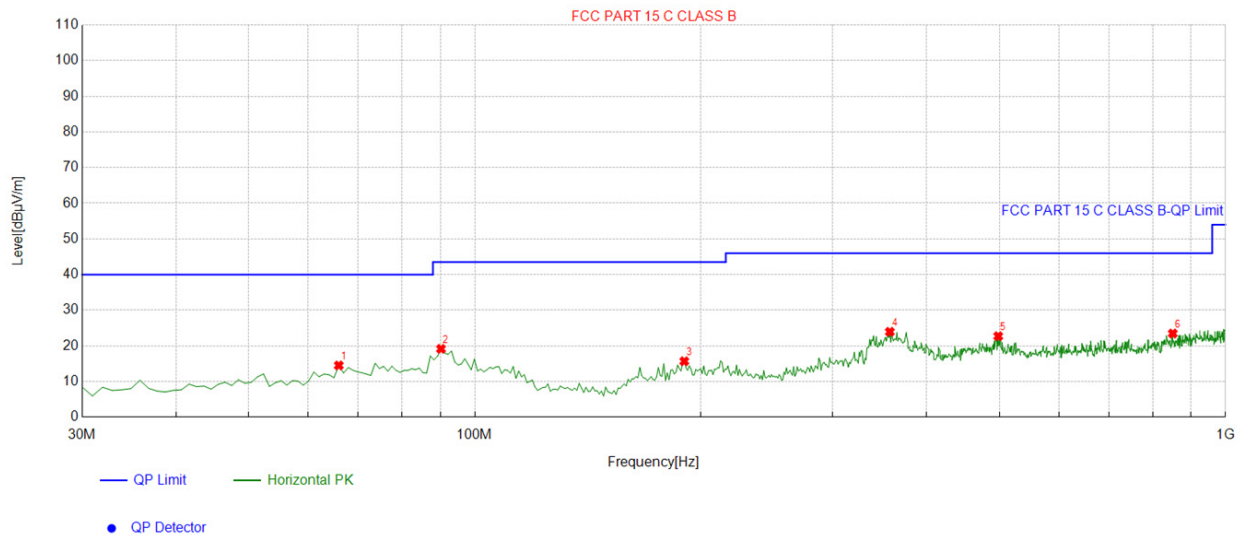
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.506507	-13.89	31.80	17.91	40.00	22.09	100	139	Vertical
2	66.896897	-16.17	36.51	20.34	40.00	19.66	100	219	Vertical
3	86.316316	-17.62	35.64	18.02	40.00	21.98	100	1	Vertical
4	321.29129	-11.16	26.97	15.81	46.00	30.19	100	150	Vertical
5	497.03703	-7.97	31.62	23.65	46.00	22.35	100	238	Vertical
6	860.18018	-1.84	26.54	24.70	46.00	21.30	100	281	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: S24 Ultra

Horizontal



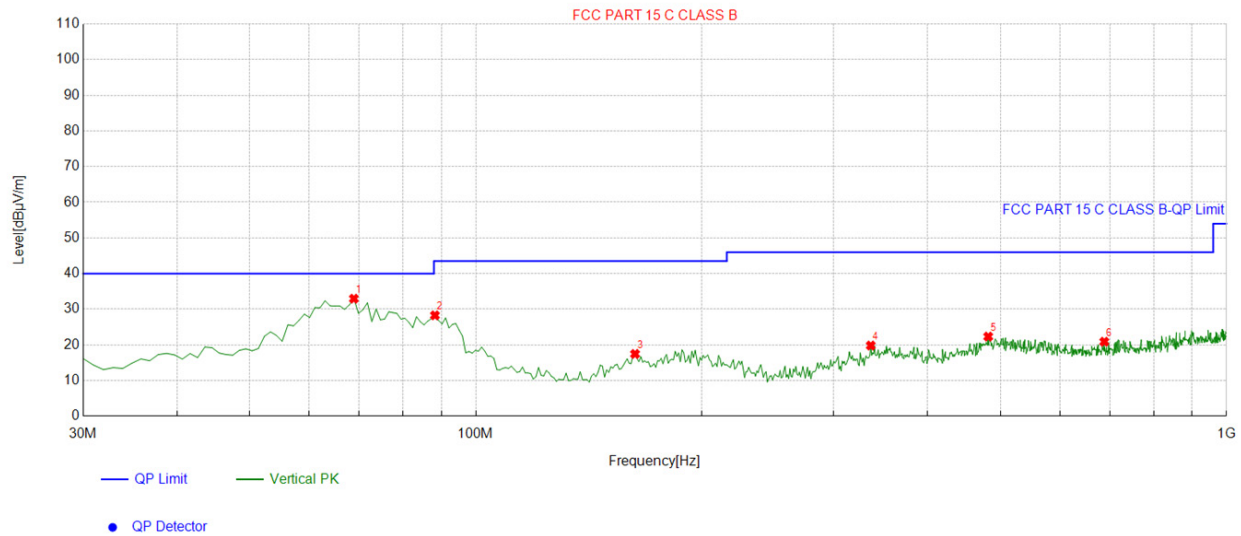
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	65.925926	-15.95	30.47	14.52	40.00	25.48	100	55	Horizontal
2	90.2002	-16.68	35.85	19.17	43.50	24.33	100	360	Horizontal
3	190.21021	-15.90	31.59	15.69	43.50	27.81	100	273	Horizontal
4	357.21721	-10.08	34.03	23.95	46.00	22.05	100	81	Horizontal
5	498.00800	-8.03	30.74	22.71	46.00	23.29	100	118	Horizontal
6	850.47047	-1.46	24.93	23.47	46.00	22.53	100	265	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	68.838839	-16.41	49.37	32.96	40.00	7.04	100	276	Vertical
2	88.258258	-17.03	45.31	28.28	43.50	15.22	100	282	Vertical
3	163.02302	-17.59	35.05	17.46	43.50	26.04	100	17	Vertical
4	335.85585	-10.57	30.39	19.82	46.00	26.18	100	40	Vertical
5	481.50150	-8.18	30.51	22.33	46.00	23.67	100	303	Vertical
6	687.34734	-4.32	25.21	20.89	46.00	25.11	100	40	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

**For 1GHz to 25GHz**

CH Low (2402MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.00	54.95	-3.65	51.30	74.00	-22.70	
4804.00	42.96	-3.65	39.31	54.00	-14.69	AVG
7206.00	51.53	-0.95	50.58	74.00	-23.42	peak
7206.00	41.06	-0.95	40.11	54.00	-13.89	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Level - Limit.

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.00	52.71	-3.65	49.06	74.00	-24.94	
4804.00	43.63	-3.65	39.98	54.00	-14.02	AVG
7206.00	51.31	-0.95	50.36	74.00	-23.64	peak
7206.00	40.56	-0.95	39.61	54.00	-14.39	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Level - Limit.



CH Middle (2441MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.00	53.36	-3.54	49.82	74.00	-24.18	peak
4882.00	44.88	-3.54	41.34	54.00	-12.66	AVG
7323.00	51.62	-0.81	50.81	74.00	-23.19	peak
7323.00	42.78	-0.81	41.97	54.00	-12.03	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.00	52.77	-3.54	49.23	74.00	-24.77	peak
4882.00	44.37	-3.54	40.83	54.00	-13.17	AVG
7323.00	51.08	-0.81	50.27	74.00	-23.73	peak
7323.00	41.14	-0.81	40.33	54.00	-13.67	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						



CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	53.18	-3.43	49.75	74.00	-24.25	peak
4960.00	43.42	-3.44	39.98	54.00	-14.02	AVG
7440.00	50.99	-0.77	50.22	74.00	-23.78	peak
7440.00	40.59	-0.77	39.82	54.00	-14.18	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.57	-3.43	49.14	74.00	-24.86	peak
4960.00	42.69	-3.44	39.25	54.00	-14.75	AVG
7440.00	51.57	-0.77	50.80	74.00	-23.20	peak
7440.00	40.39	-0.77	39.62	54.00	-14.38	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						



Series Model No.: X24 Ultra
CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	53.24	-3.43	49.81	74.00	-24.19	peak
4960.00	42.64	-3.44	39.20	54.00	-14.80	AVG
7440.00	50.91	-0.77	50.14	74.00	-23.86	peak
7440.00	39.42	-0.77	38.65	54.00	-15.35	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.53	-3.43	49.10	74.00	-24.90	peak
4960.00	41.73	-3.44	38.29	54.00	-15.71	AVG
7440.00	50.24	-0.77	49.47	74.00	-24.53	peak
7440.00	40.62	-0.77	39.85	54.00	-14.15	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						



Series Model No.: C24 Ultra
CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.29	-3.43	48.86	74.00	-25.14	peak
4960.00	43.17	-3.44	39.73	54.00	-14.27	AVG
7440.00	50.52	-0.77	49.75	74.00	-24.25	peak
7440.00	39.63	-0.77	38.86	54.00	-15.14	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.22	-3.43	48.79	74.00	-25.21	peak
4960.00	41.82	-3.44	38.38	54.00	-15.62	AVG
7440.00	50.87	-0.77	50.10	74.00	-23.90	peak
7440.00	39.65	-0.77	38.88	54.00	-15.12	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						



Series Model No.: C25
CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.94	-3.43	49.51	74.00	-24.49	peak
4960.00	43.64	-3.44	40.20	54.00	-13.80	AVG
7440.00	50.49	-0.77	49.72	74.00	-24.28	peak
7440.00	39.27	-0.77	38.50	54.00	-15.50	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.32	-3.43	48.89	74.00	-25.11	peak
4960.00	41.75	-3.44	38.31	54.00	-15.69	AVG
7440.00	51.19	-0.77	50.42	74.00	-23.58	peak
7440.00	40.35	-0.77	39.58	54.00	-14.42	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						



Series Model No.: I15 Ultra
CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	53.51	-3.43	50.08	74.00	-23.92	peak
4960.00	42.43	-3.44	38.99	54.00	-15.01	AVG
7440.00	50.75	-0.77	49.98	74.00	-24.02	peak
7440.00	39.92	-0.77	39.15	54.00	-14.85	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	51.36	-3.43	47.93	74.00	-26.07	peak
4960.00	42.19	-3.44	38.75	54.00	-15.25	AVG
7440.00	50.92	-0.77	50.15	74.00	-23.85	peak
7440.00	40.44	-0.77	39.67	54.00	-14.33	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						



Series Model No.: C7 Ultra
CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.21	-3.43	48.78	74.00	-25.22	peak
4960.00	42.09	-3.44	38.65	54.00	-15.35	AVG
7440.00	50.46	-0.77	49.69	74.00	-24.31	peak
7440.00	39.77	-0.77	39.00	54.00	-15.00	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.04	-3.43	48.61	74.00	-25.39	peak
4960.00	42.02	-3.44	38.58	54.00	-15.42	AVG
7440.00	51.53	-0.77	50.76	74.00	-23.24	peak
7440.00	40.09	-0.77	39.32	54.00	-14.68	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						



Series Model No.: S24 Ultra
CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	53.04	-3.43	49.61	74.00	-24.39	peak
4960.00	42.77	-3.44	39.33	54.00	-14.67	AVG
7440.00	50.62	-0.77	49.85	74.00	-24.15	peak
7440.00	40.71	-0.77	39.94	54.00	-14.06	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.00	52.62	-3.43	49.19	74.00	-24.81	peak
4960.00	42.25	-3.44	38.81	54.00	-15.19	AVG
7440.00	51.85	-0.77	51.08	74.00	-22.92	peak
7440.00	40.87	-0.77	40.10	54.00	-13.90	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.						

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.

**Radiated Band Edge Test:****Hopping****Horizontal (Worst case)**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	56.32	-5.81	50.51	74	-23.49	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	54.18	-5.84	48.34	74	-25.66	peak
2390.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	55.49	-5.81	49.68	74	-24.32	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	53.18	-5.84	47.34	74	-26.66	peak
2390.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.19	-5.81	48.38	74	-25.62	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.77	-6.06	46.71	74	-27.29	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.16	-5.81	49.35	74	-24.65	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.74	-6.06	47.68	74	-26.32	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



NO hopping

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case)

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	54.23	-5.81	48.42	74	-25.58	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	53.11	-5.84	47.27	74	-26.73	peak
2390.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	53.48	-5.81	47.67	74	-26.33	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	51.89	-5.84	46.05	74	-27.95	peak
2390.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.21	-5.81	49.4	74	-24.6	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	54.09	-6.06	48.03	74	-25.97	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.29	-5.81	48.48	74	-25.52	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.76	-6.06	45.7	74	-28.3	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



All modes of operation were investigated and the worst-case emissions are reported.

Series Model No.: X24 Ultra

Hopping

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.23	-5.81	49.42	74	-24.58	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	54.18	-6.06	48.12	74	-25.88	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.26	-5.81	47.45	74	-26.55	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.82	-6.06	45.76	74	-28.24	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



NO hopping
Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.19	-5.81	48.38	74	-25.62	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.88	-6.06	46.82	74	-27.18	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	53.26	-5.81	47.45	74	-26.55	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	54.18	-6.06	48.12	74	-25.88	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: C24 Ultra
Hopping
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.23	-5.81	49.42	74	-24.58	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.19	-6.06	47.13	74	-26.87	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.19	-5.81	48.38	74	-25.62	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.88	-6.06	46.82	74	-27.18	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



NO hopping

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.19	-5.81	48.38	74	-25.62	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.62	-6.06	47.56	74	-26.44	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	53.47	-5.81	47.66	74	-26.34	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.06	-6.06	46	74	-28	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: C25
Hopping
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.02	-5.81	49.21	74	-24.79	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.43	-6.06	46.37	74	-27.63	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.82	-5.81	49.01	74	-24.99	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.69	-6.06	45.63	74	-28.37	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



NO hopping

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.89	-5.81	49.08	74	-24.92	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.72	-6.06	45.66	74	-28.34	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	53.69	-5.81	47.88	74	-26.12	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.44	-6.06	45.38	74	-28.62	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: I15 Ultra
Hopping
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.29	-5.81	48.48	74	-25.52	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.57	-6.06	45.51	74	-28.49	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.29	-5.81	47.48	74	-26.52	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.48	-6.06	45.42	74	-28.58	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



NO hopping

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.22	-5.81	48.41	74	-25.59	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.73	-6.06	45.67	74	-28.33	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	55.29	-5.81	49.48	74	-24.52	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.16	-6.06	47.1	74	-26.9	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: C7 Ultra
Hopping
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.23	-5.81	49.42	74	-24.58	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.34	-6.06	46.28	74	-27.72	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.19	-5.81	47.38	74	-26.62	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.44	-6.06	45.38	74	-28.62	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



NO hopping

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.73	-5.81	48.92	74	-25.08	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.69	-6.06	45.63	74	-28.37	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	55.03	-5.81	49.22	74	-24.78	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.26	-6.06	47.2	74	-26.8	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: S24 Ultra
Hopping
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.21	-5.81	49.4	74	-24.6	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.29	-6.06	47.23	74	-26.77	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.19	-5.81	48.38	74	-25.62	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.37	-6.06	46.31	74	-27.69	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



NO hopping
Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.66	-5.81	48.85	74	-25.15	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.19	-6.06	46.13	74	-27.87	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	53.19	-5.81	47.38	74	-26.62	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.22	-6.06	46.16	74	-27.84	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.3. Maximum Peak Conducted Output Power

Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the RF automatic control unit.

Test Configuration



Test Results

Type	Channel	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
GFSK	00	7.86	21.00	Pass
	39	7.07		
	78	7.98		
π/4DQPSK	00	7.05	21.00	Pass
	39	6.14		
	78	7.14		
8DPSK	00	6.61	21.00	Pass
	39	6.19		
	78	7.16		

Note: 1. The test results including the cable loss.



3.4. 20db Bandwidth

Limit

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recorded.

Test Configuration



Test Results

Modulation	Channel	20dB bandwidth (MHz)	Result
GFSK	CH00	0.849	Pass
	CH39	0.813	
	CH78	0.846	
$\pi/4$ DQPSK	CH00	1.335	
	CH39	1.278	
	CH78	1.329	
8DPSK	CH00	1.305	
	CH39	1.281	
	CH78	1.260	

Test plot as follows:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



20dB bandwidth

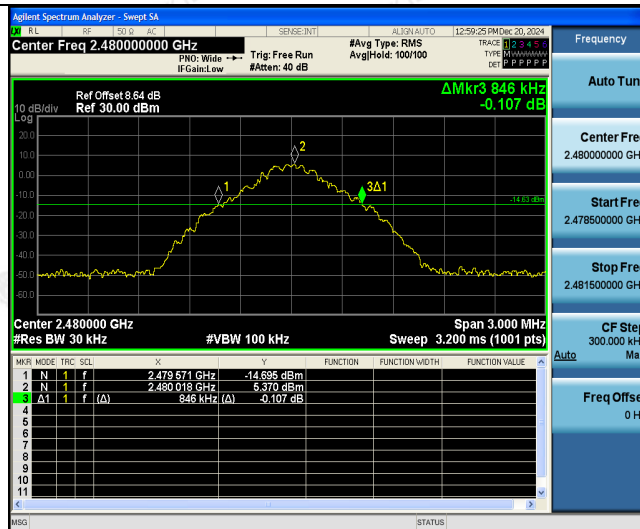
GFSK Modulation



CH00



CH39



CH78

 $\pi/4$ DQPSK Modulation

CH00



CH39



CH78



8DPSK Modulation



CH00



CH39



CH78



3.5. Frequency Separation

LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 KHz or the $2/3 \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300 KHz RBW and 1000 KHz VBW.

TEST CONFIGURATION



TEST RESULTS

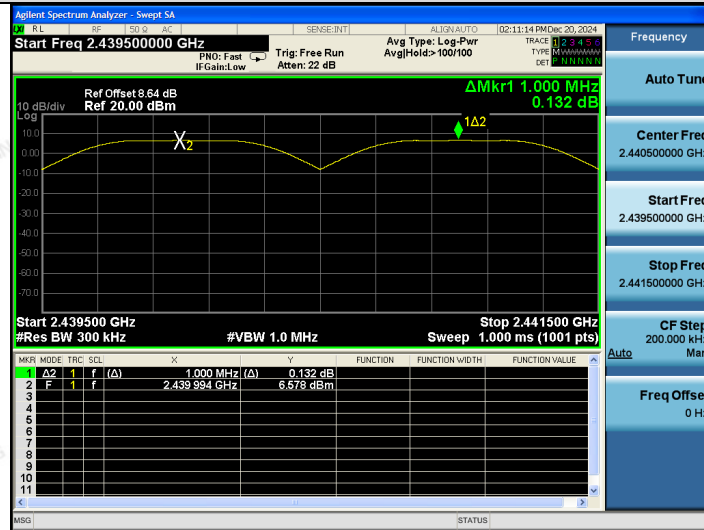
Modulation	Channel	Channel Separation (MHz)	Limit(MHz)	Result
GFSK	Middle Channel	1.000	0.566	Pass
$\pi/4$ DQPSK	Middle Channel	1.000	0.890	Pass
8DPSK	Middle Channel	1.000	0.870	Pass

Note: We have tested all mode at high, middle and low channel, and recorded worst case at middle.

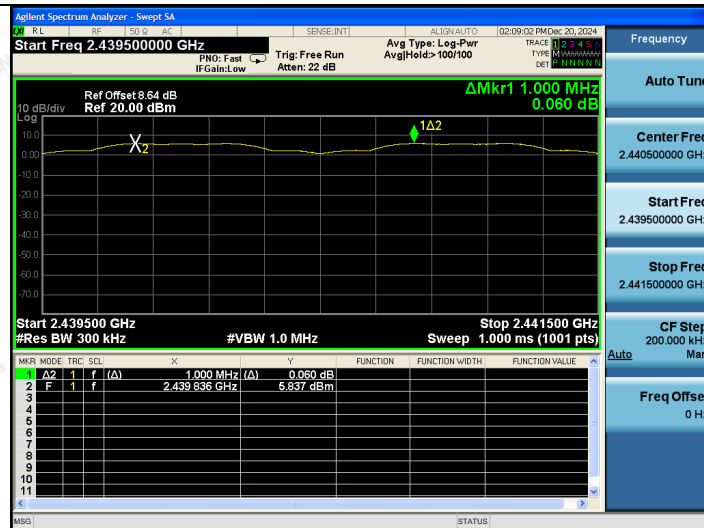
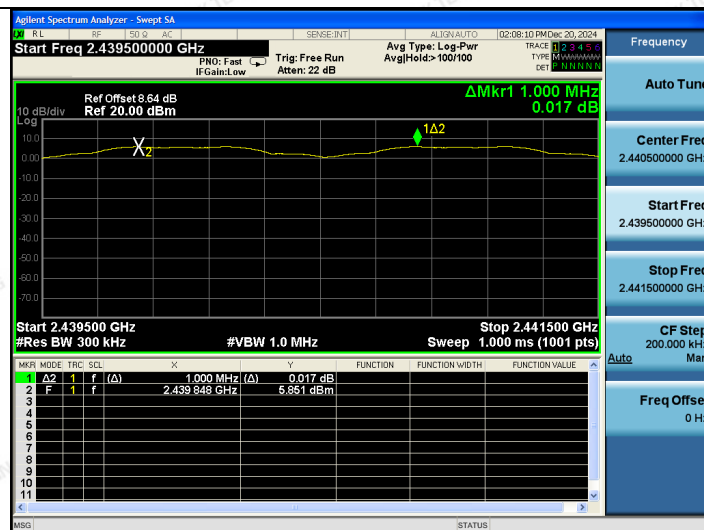
Test plot as follows:



Frequency Separation



GFSK

 $\pi/4$ DQPSK

8DPSK



3.6. Number of Hopping Frequency

Limit

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz.

Test Configuration



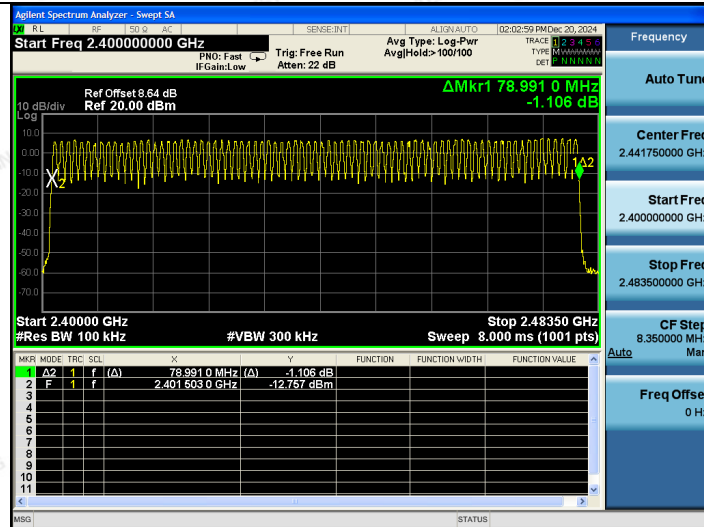
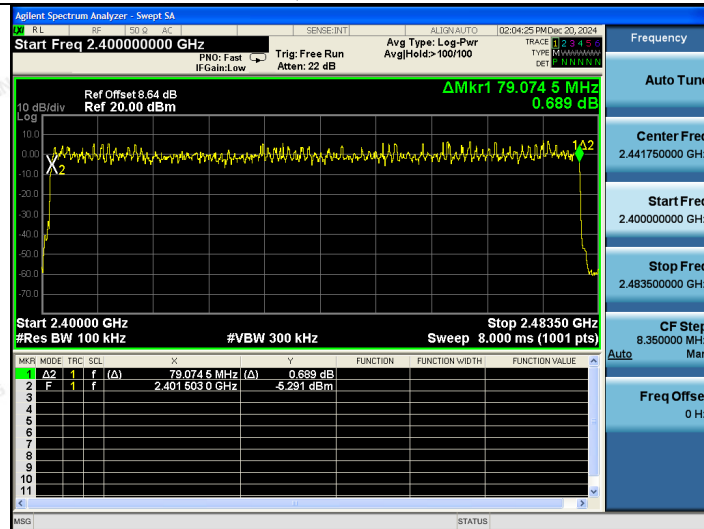
Test Results

Modulation	Number of Hopping Channel	Limit	Result
GFSK	79	≥15	Pass
π/4DQPSK	79		
8DPSK	79		

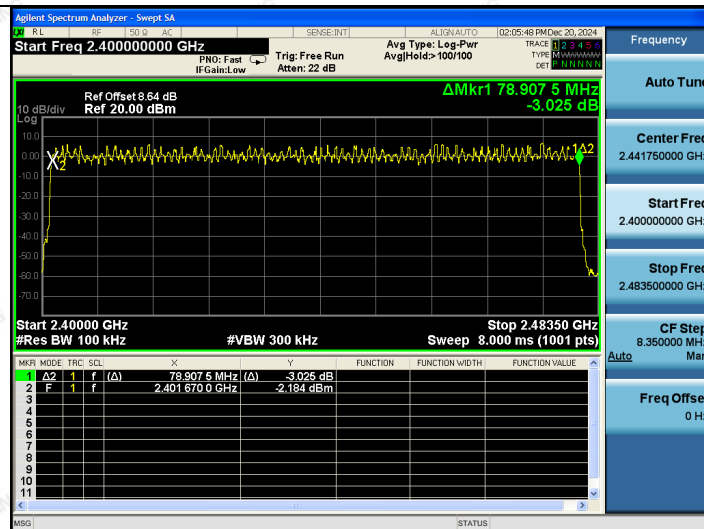
Test plot as follows:



GFSK Modulation

 $\pi/4$ DQPSK Modulation

8DPSK Modulation





3.7. Time of Occupancy (Dwell Time)

Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 3MHz VBW, Span 0Hz.

Test Configuration



Test Results

Modulation	Packet	Pulse time (ms)	Dwell time (second)	Limit (second)	Result
GFSK	DH1	0.377	0.121	0.40	PASS
	DH3	1.633	0.261		
	DH5	2.882	0.307		
π/4DQPSK	2-DH1	0.384	0.123	0.40	PASS
	2-DH3	1.635	0.262		
	2-DH5	2.884	0.308		
8DPSK	3-DH1	0.384	0.123	0.40	PASS
	3-DH3	1.635	0.262		
	3-DH5	2.887	0.308		

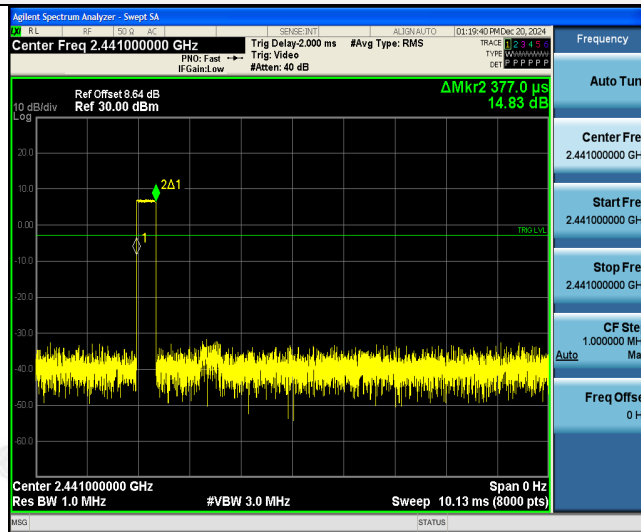
Note:

1. We have tested all mode at high, middle and low channel, and recorded worst case at middle channel.
2. Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second for DH1, 2-DH1, 3-DH1
 Dwell time=Pulse time (ms) × (1600 ÷ 4 ÷ 79) ×31.6 Second for DH3, 2-DH3, 3-DH3
 Dwell time=Pulse time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second for DH5, 2-DH5, 3-DH5

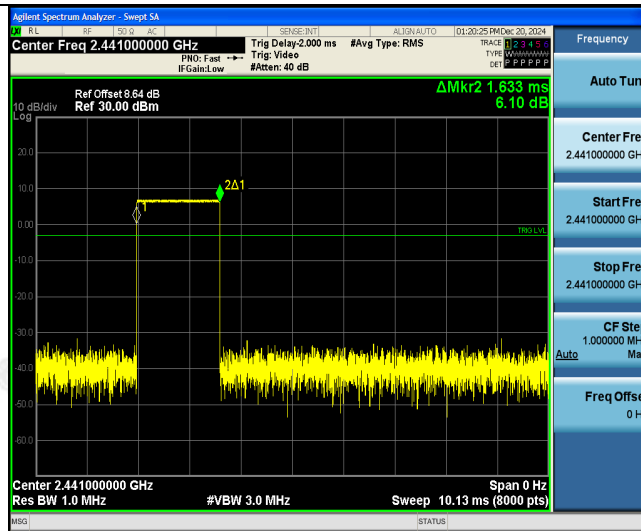
Test plot as follows:



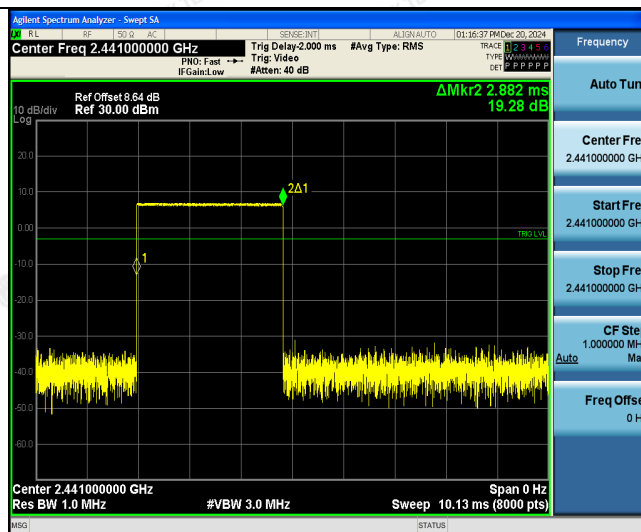
GFSK Modulation



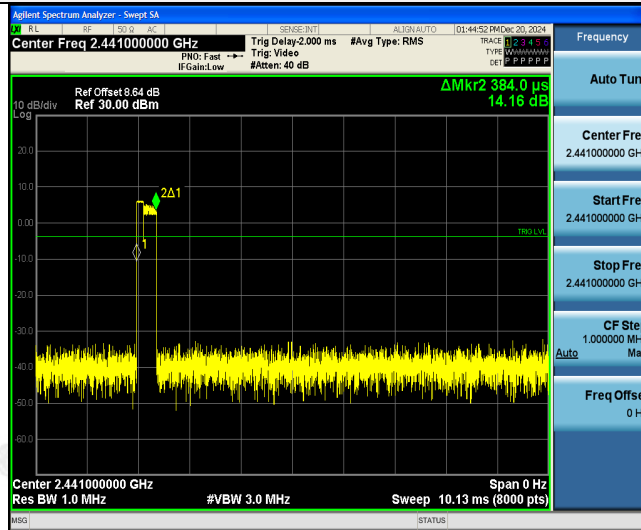
DH1



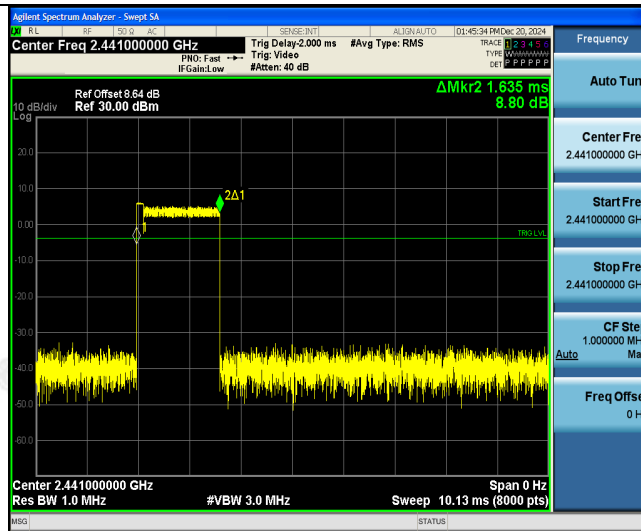
DH3



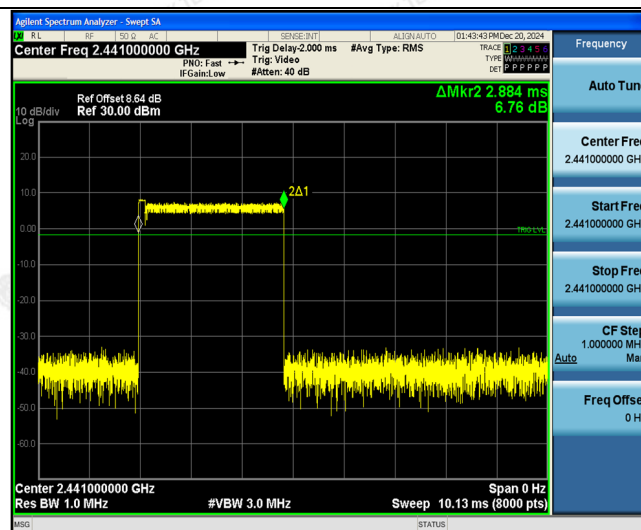
DH5

 $\pi/4$ DQPSK Modulation

2-DH1



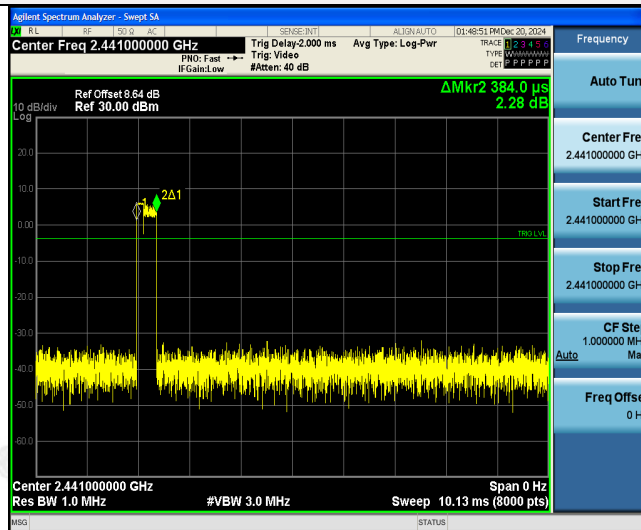
2-DH3



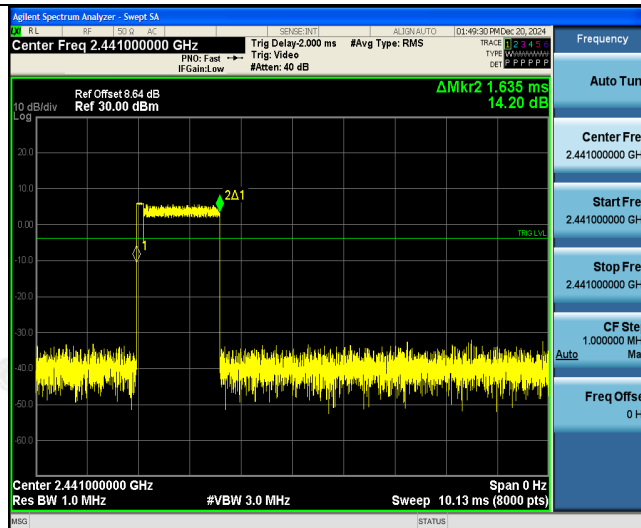
2-DH5



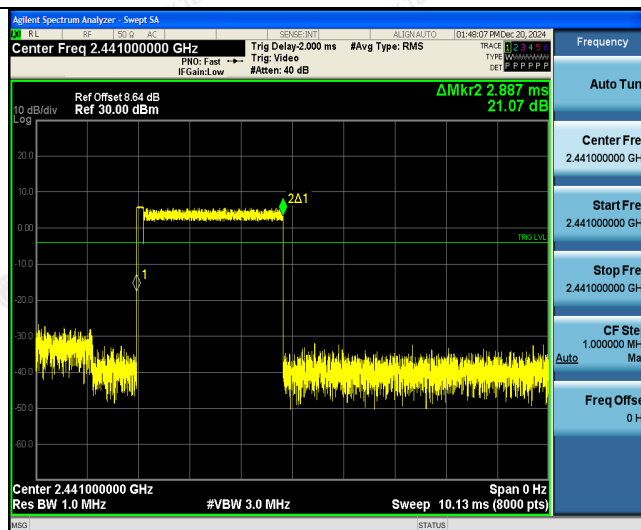
8DPSK Modulation



3-DH1



3-DH3



3-DH5



3.8. Out-of-Band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector , and max hold. Measurements utilizing these setting are made of the in-band reference level, band edge and out-of-band emissions.

Test Configuration



Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

We measured all conditions (DH1, DH3, DH5) and recorded worst case at DH5, 2DH5 and 3DH5.

Test plot as follows:

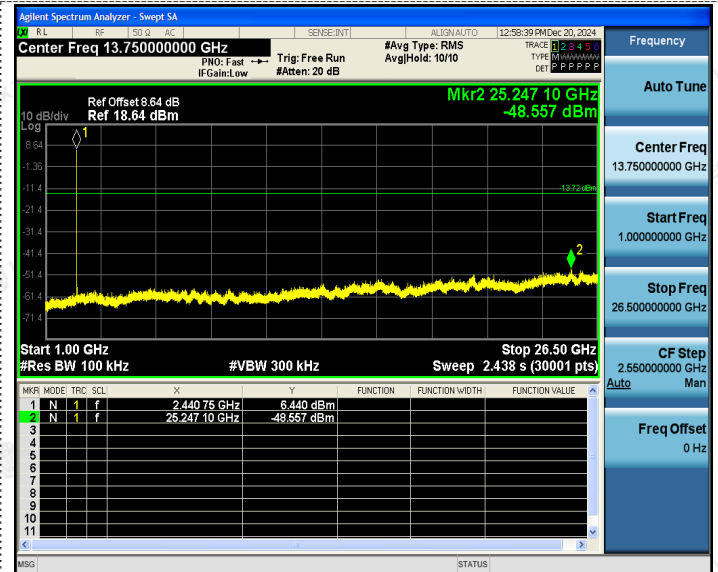
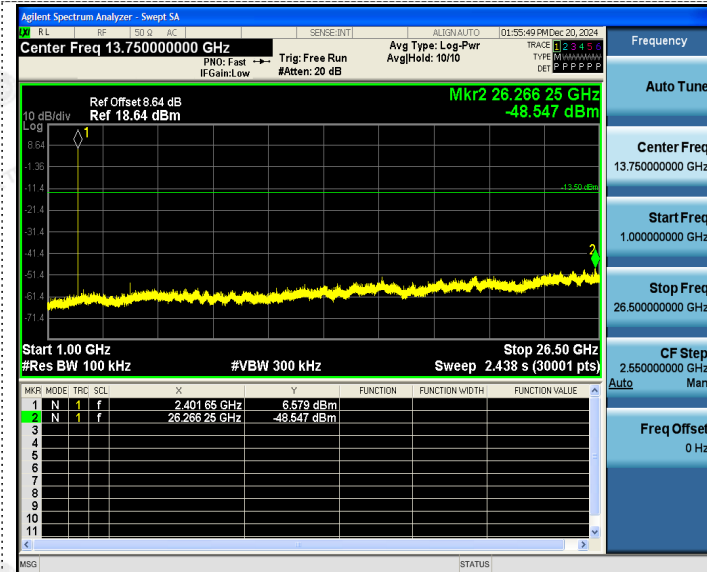
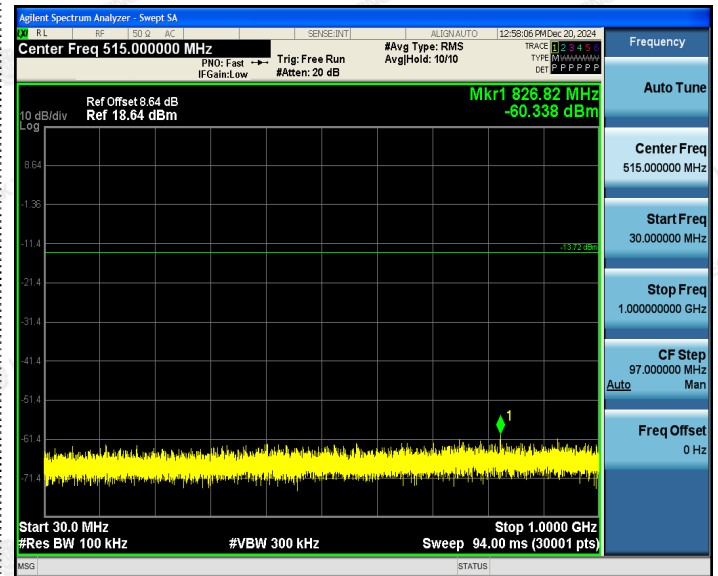
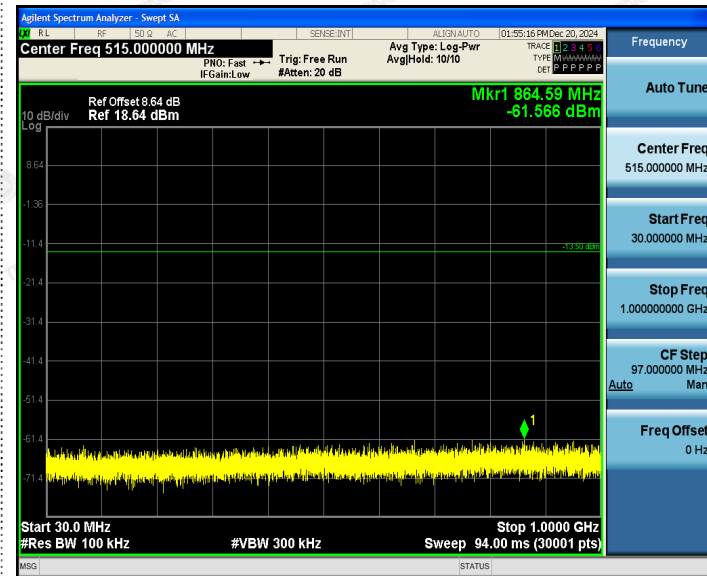
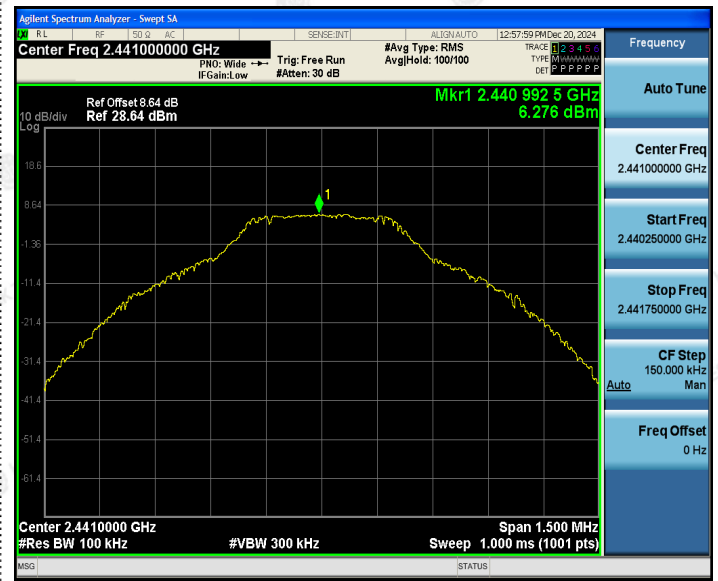


GFSK

CH00



CH39



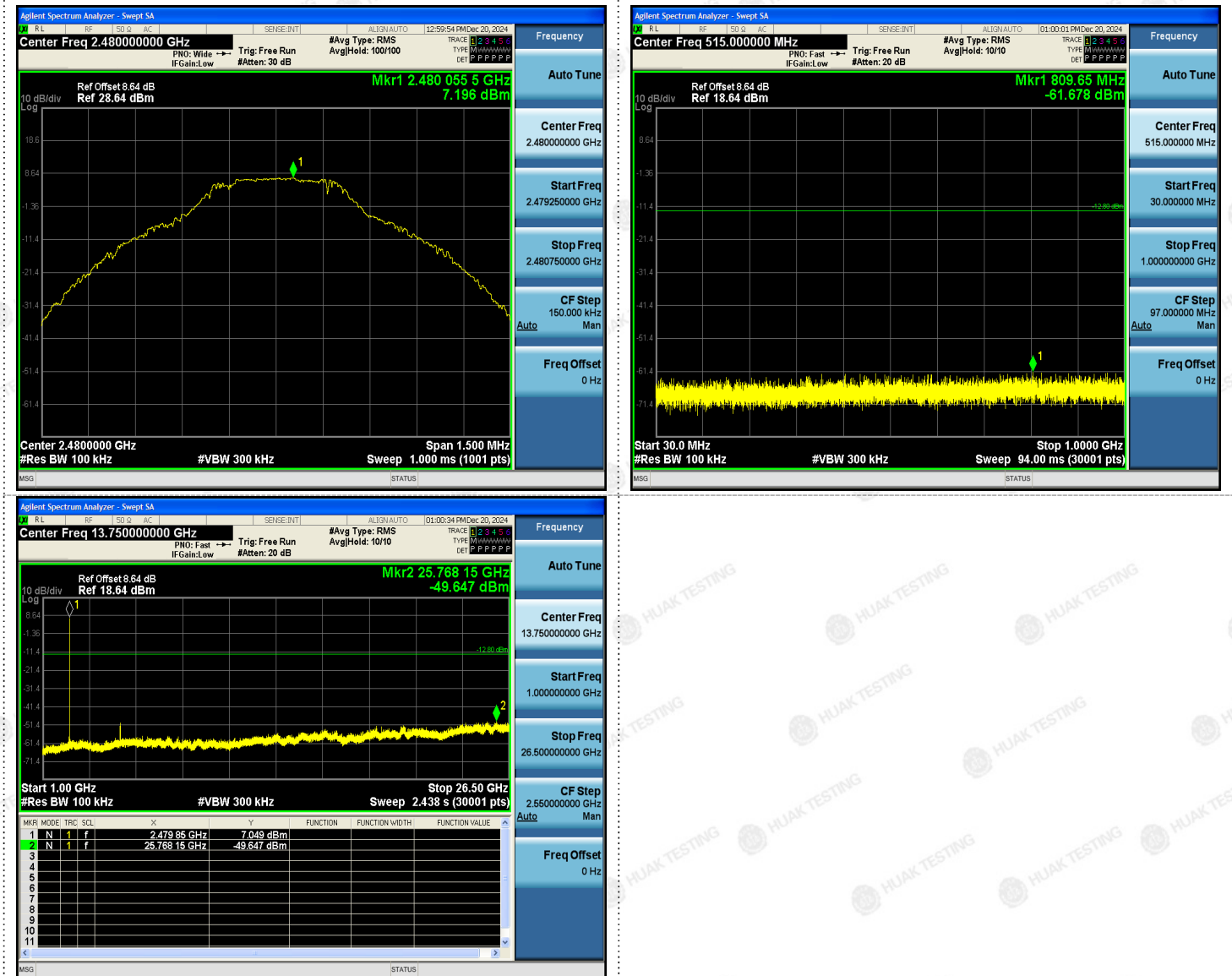
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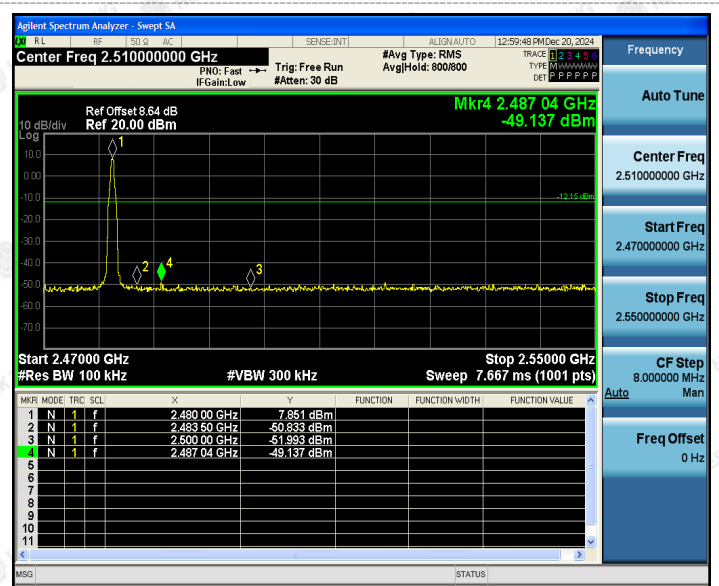
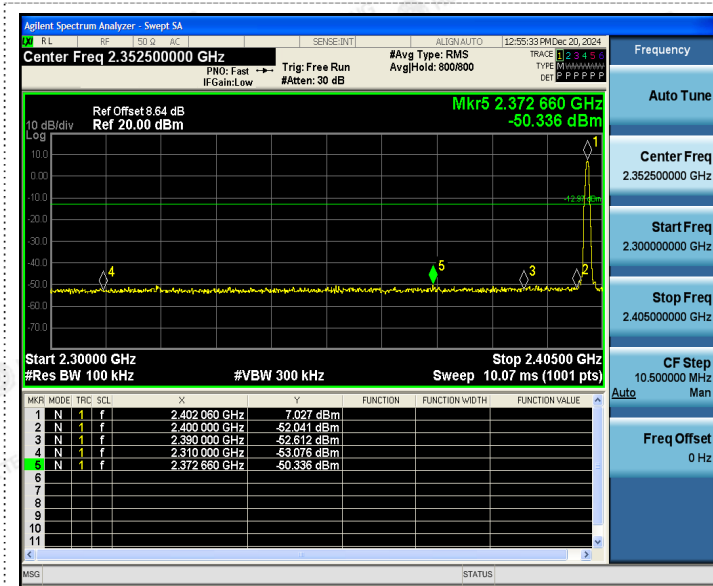
TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



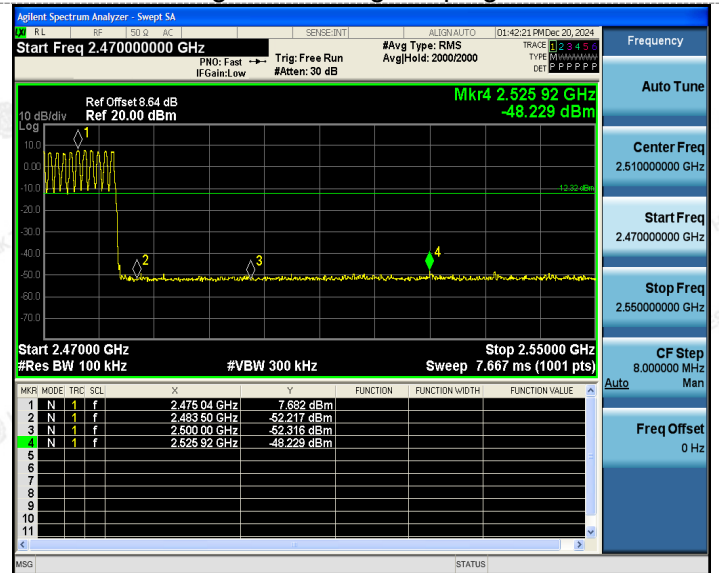
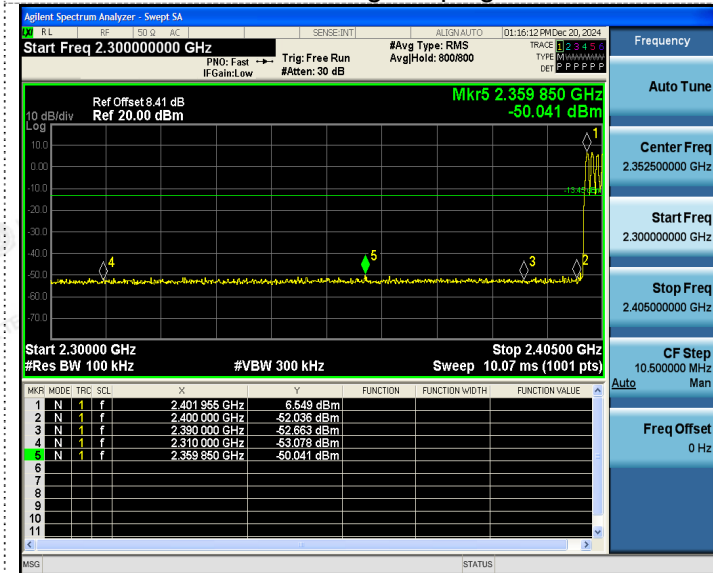
CH78





Left Band edge hopping off

Right Band edge hopping off

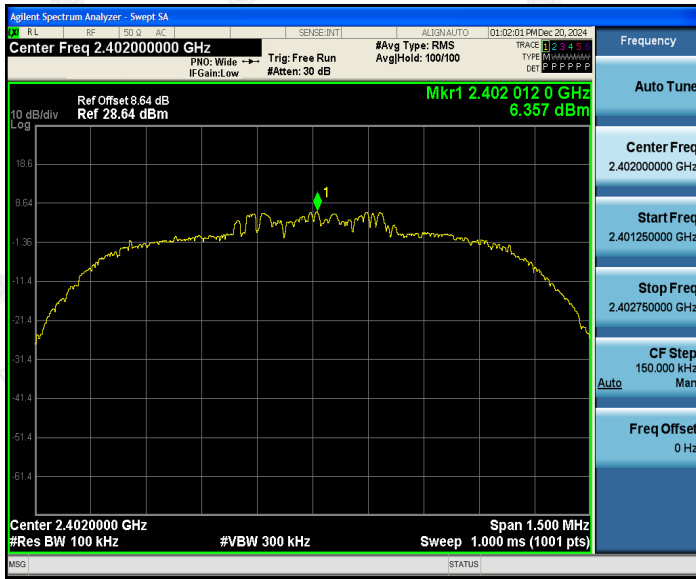


Left Band edge hopping on

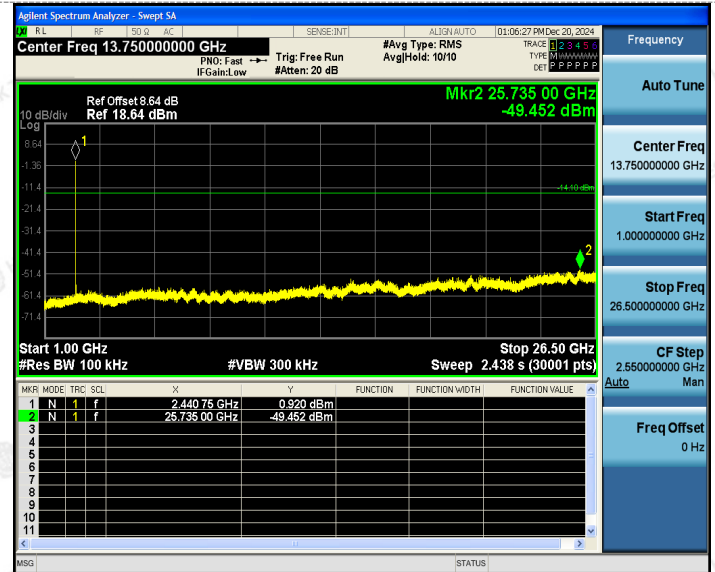
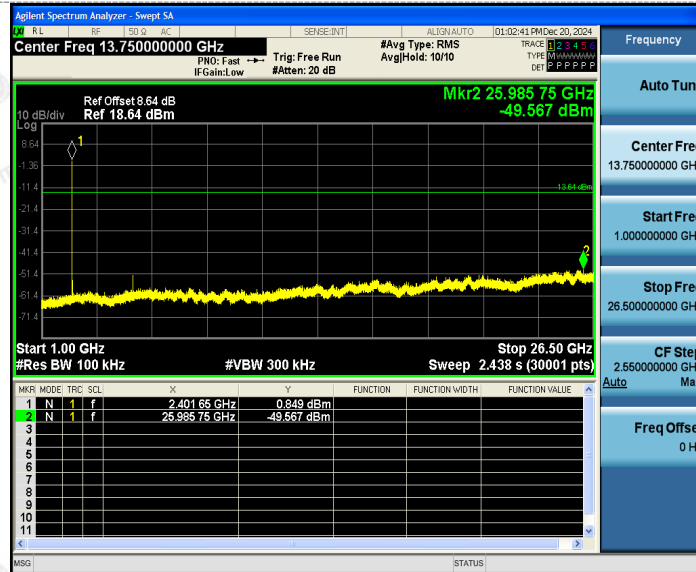
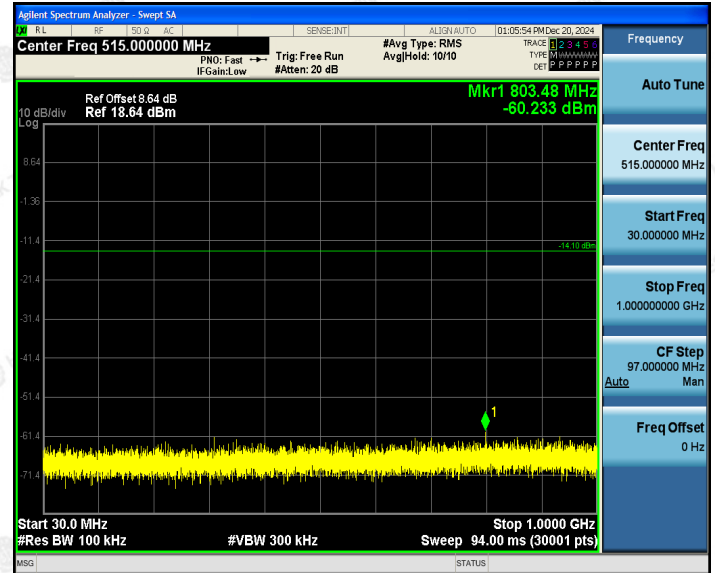
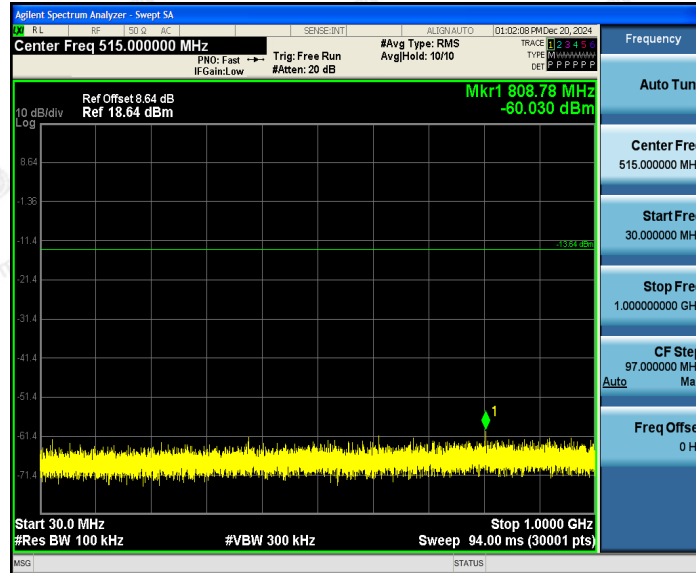
Right Band edge hopping on

 $\pi/4$ DQPSK

CH00



CH39



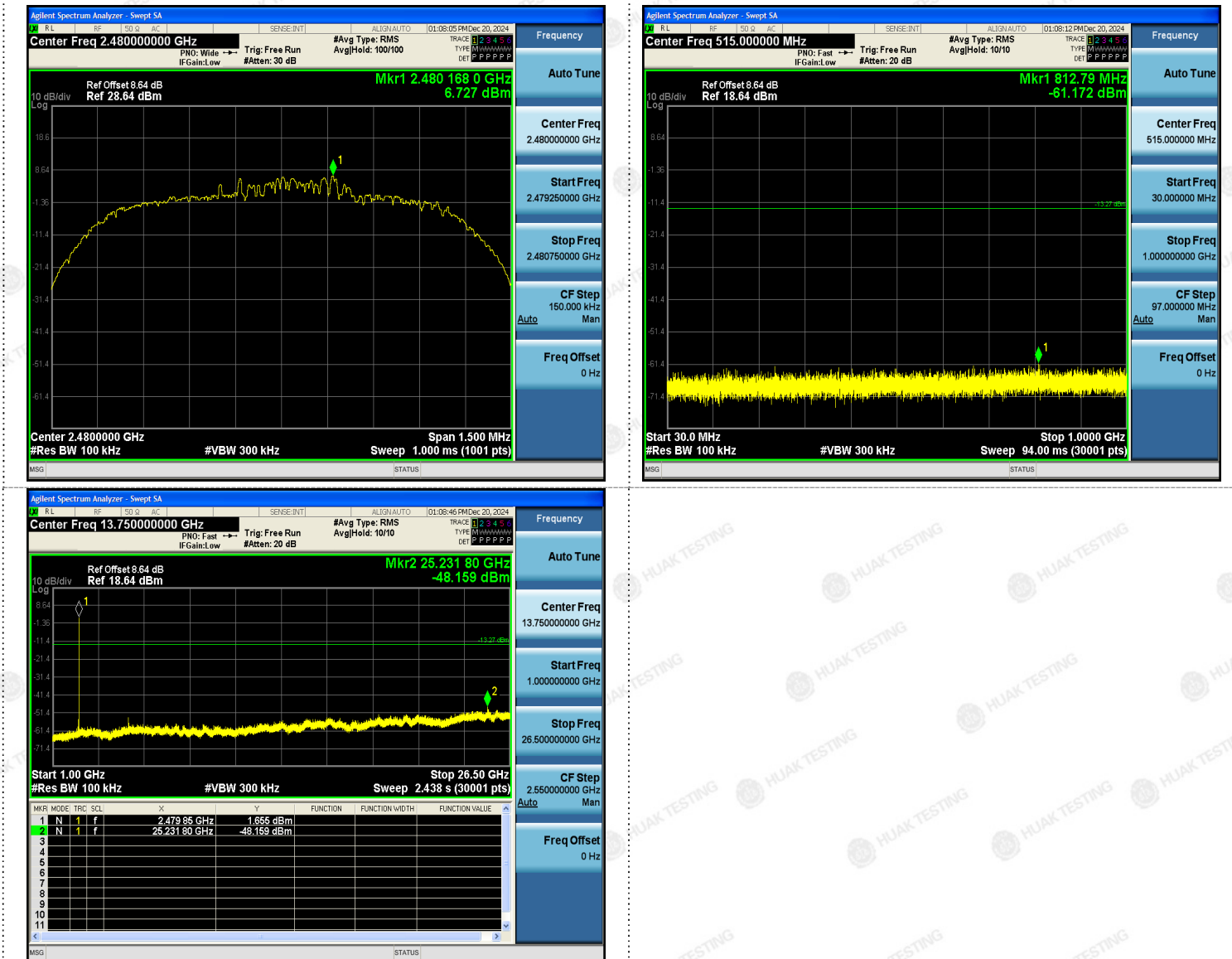
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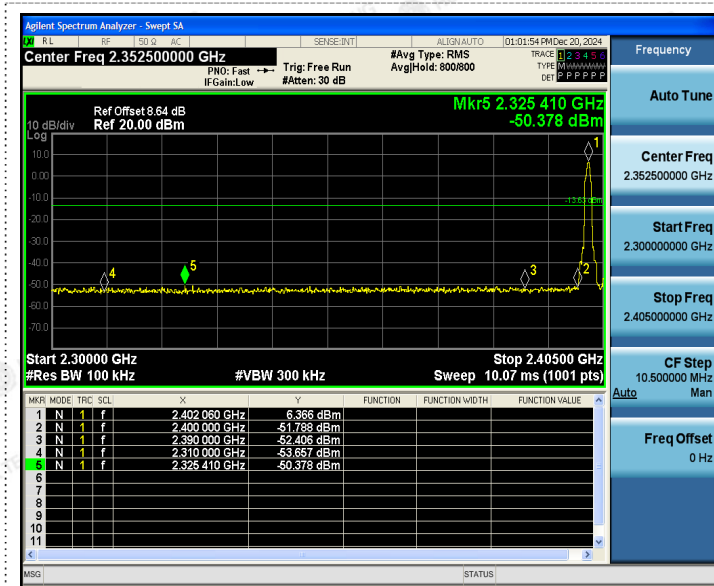
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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

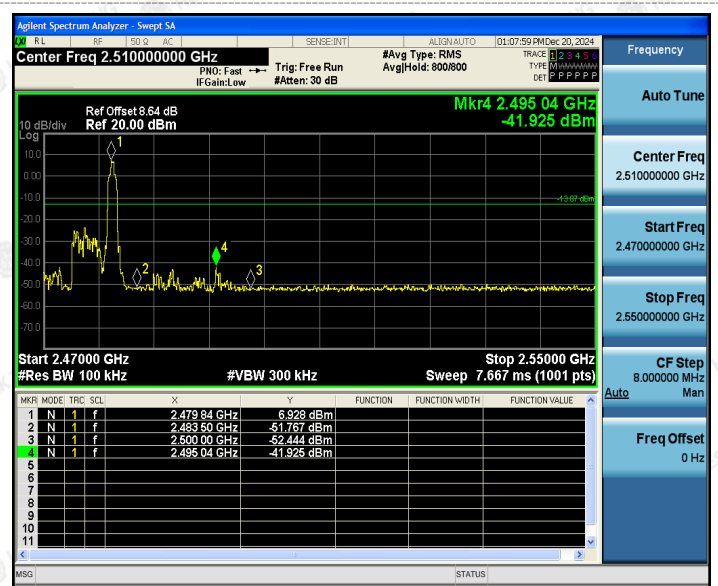


CH78

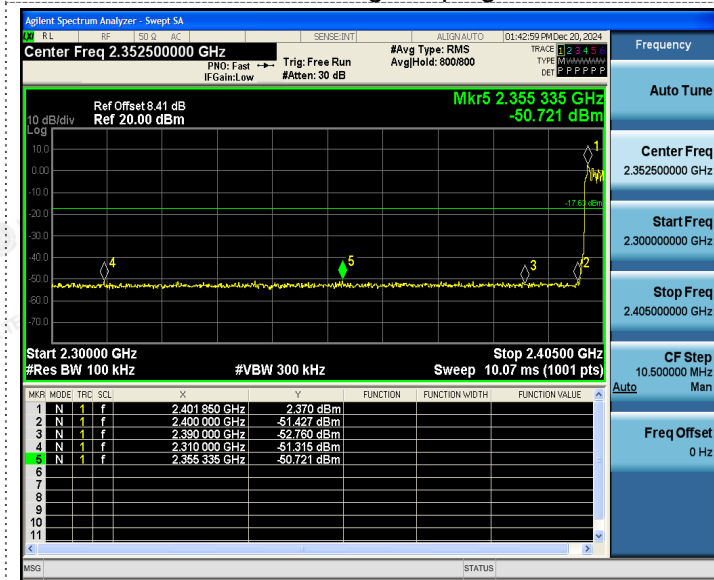




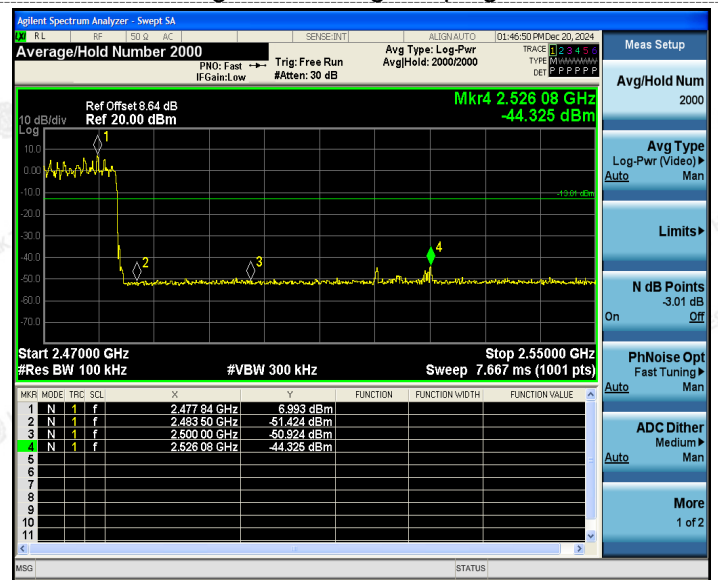
Left Band edge hopping off



Right Band edge hopping off



Left Band edge hopping on



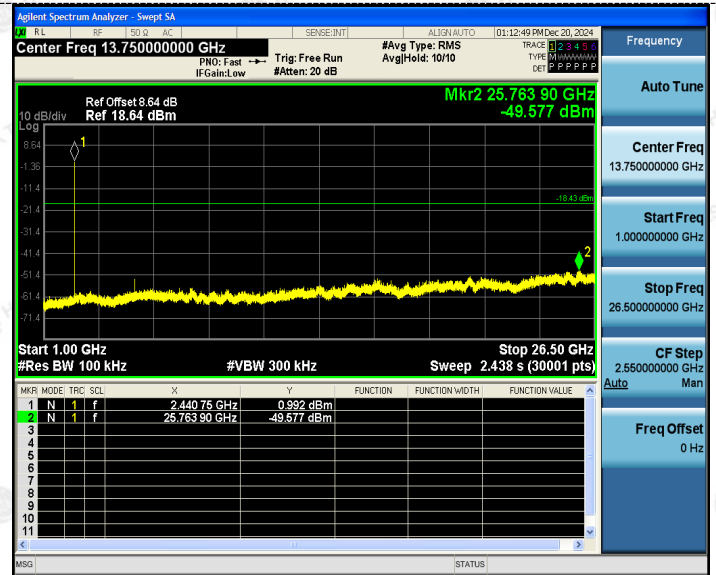
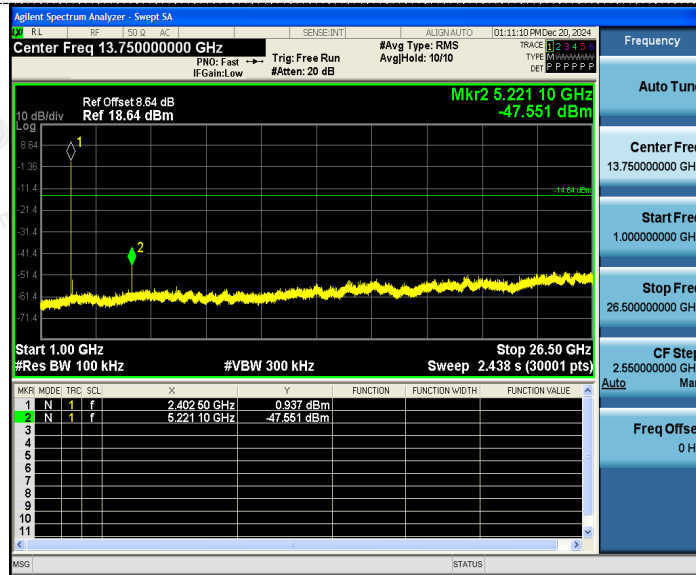
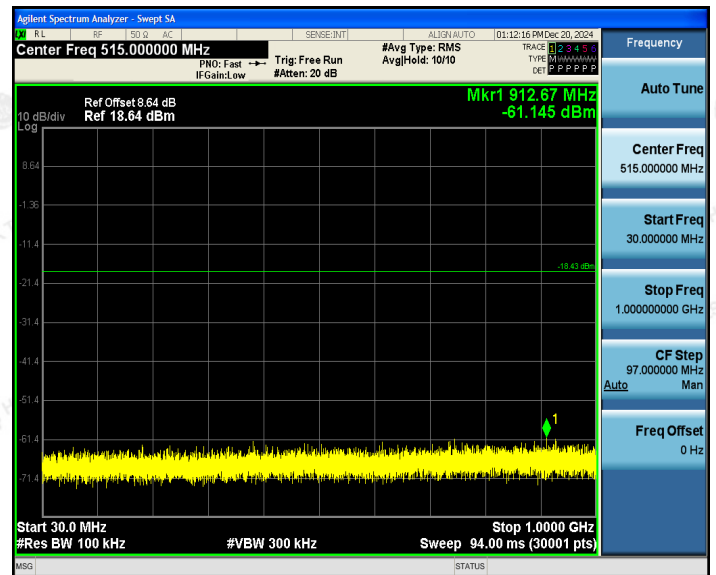
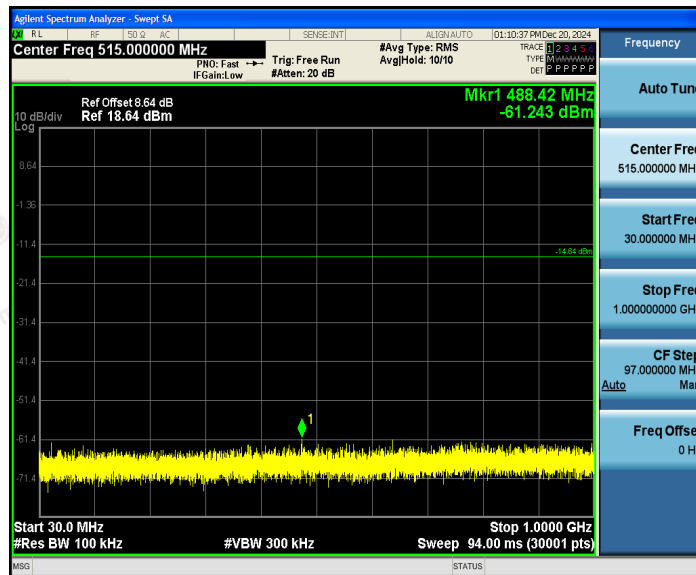
Right Band edge hopping on



8DPSK

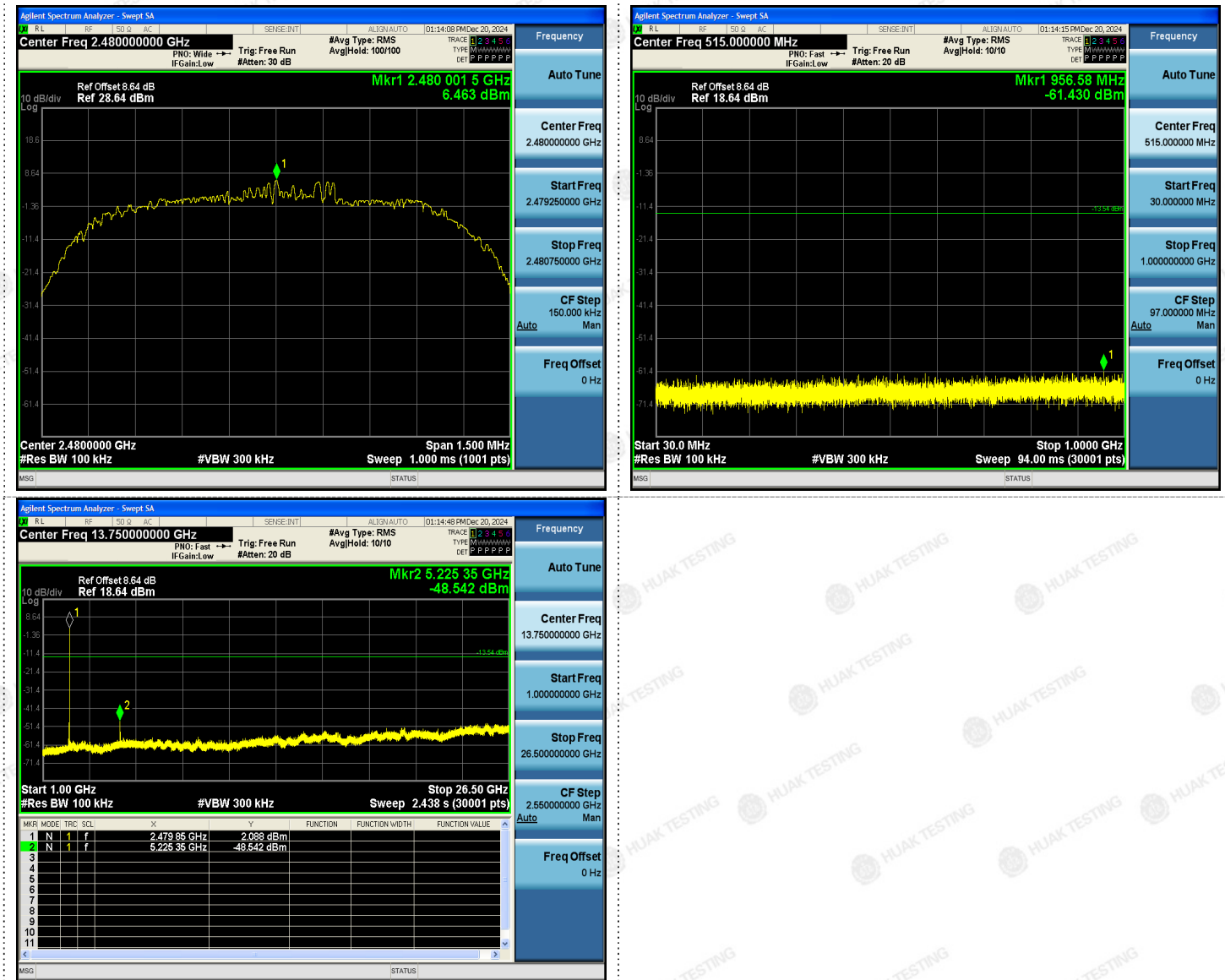
CH00

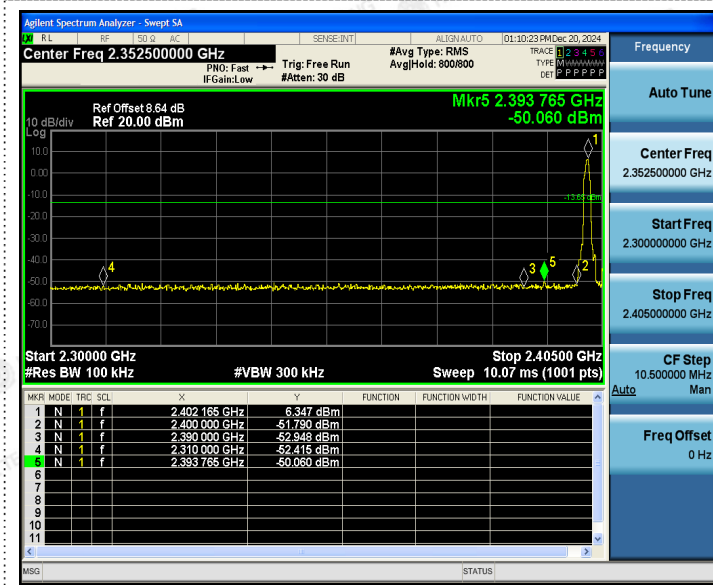
CH39



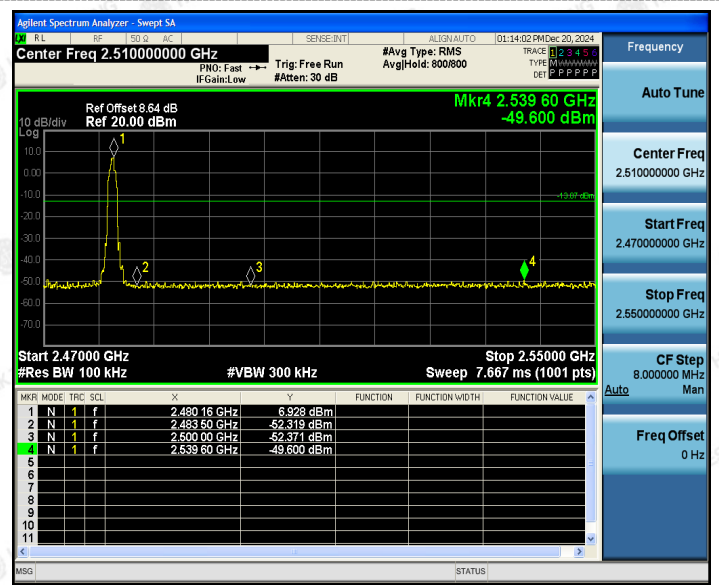


CH78

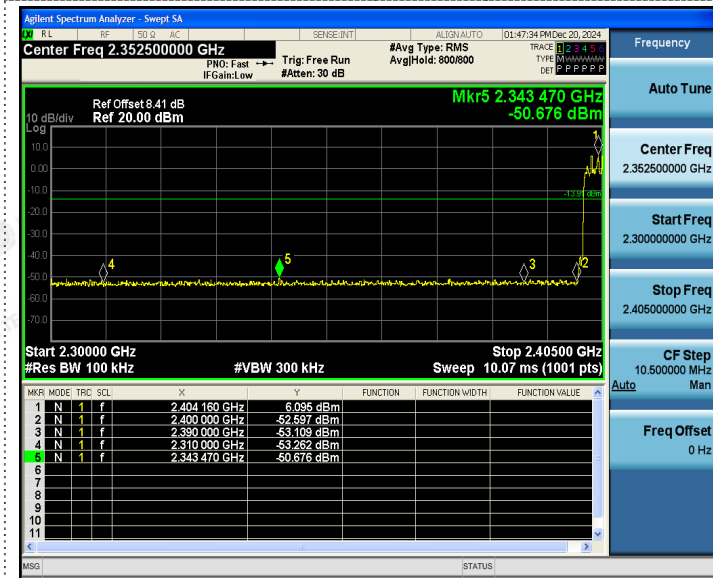




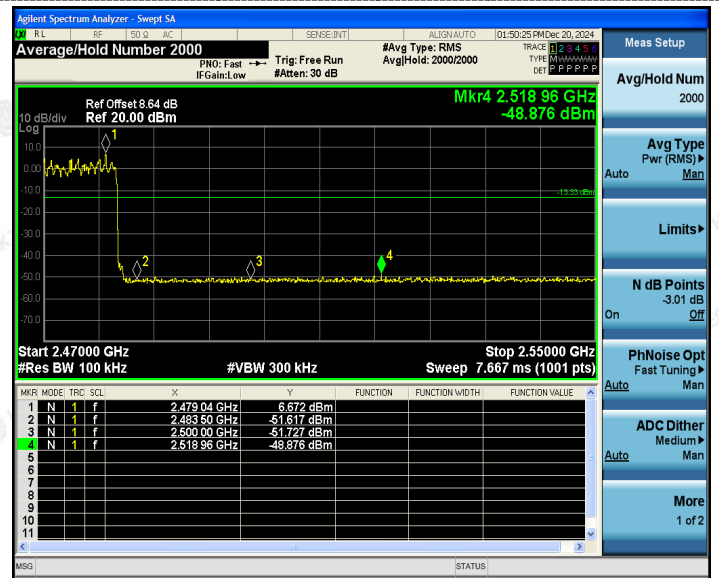
Left Band edge hopping off



Right Band edge hopping off



Left Band edge hopping on



Right Band edge hopping on