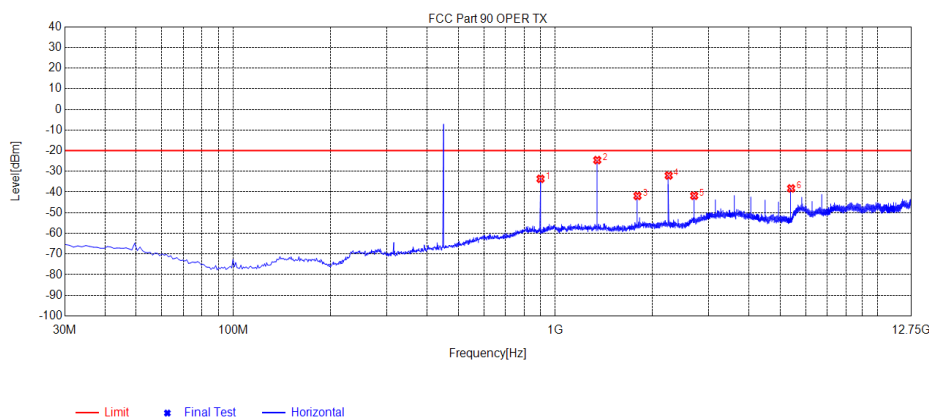
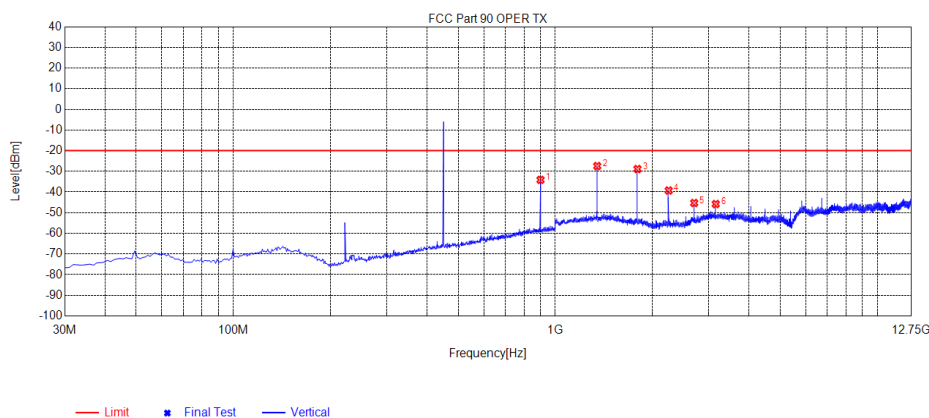


Test Mode:	TX:450.125MHz-FM 6W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	900.0900	-76.56	-33.62	-20.00	13.62	42.94	202	Horizontal
2	1350.1850	-21.04	-24.56	-20.00	4.56	-3.52	44	Horizontal
3	1800.2550	-40.93	-41.89	-20.00	21.89	-0.96	165	Horizontal
4	2250.3250	-31.57	-32.03	-20.00	12.03	-0.46	137	Horizontal
5	2700.3950	-42.27	-41.81	-20.00	21.81	0.46	175	Horizontal
6	5400.8151	-46.14	-38.25	-20.00	18.25	7.89	81	Horizontal

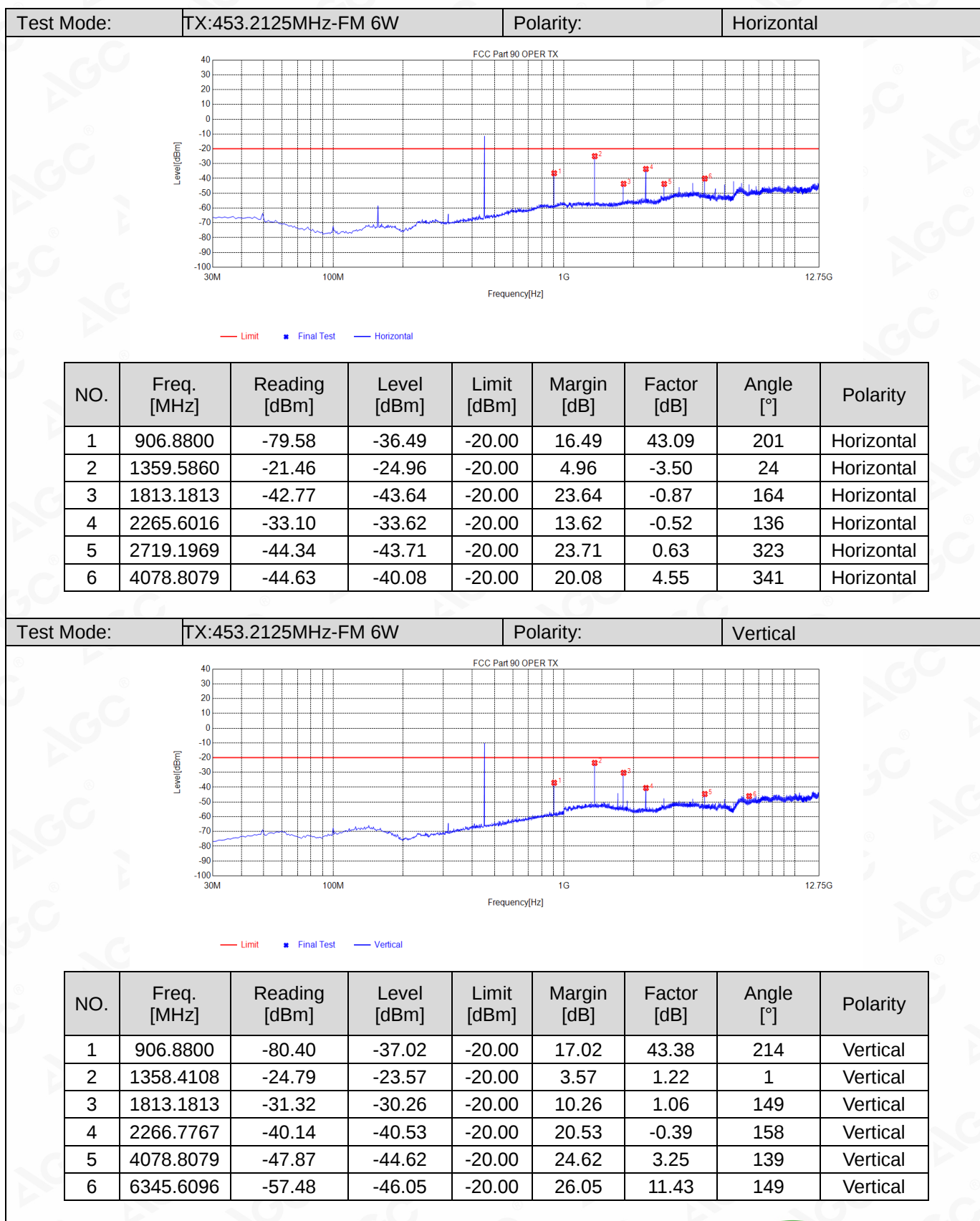
Test Mode:	TX:450.125MHz-FM 6W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	900.0900	-77.44	-34.13	-20.00	14.13	43.31	214	Vertical
2	1350.1850	-28.59	-27.42	-20.00	7.42	1.17	352	Vertical
3	1800.2550	-29.99	-28.88	-20.00	8.88	1.11	158	Vertical
4	2250.3250	-38.93	-39.27	-20.00	19.27	-0.34	158	Vertical
5	2700.3950	-45.93	-45.30	-20.00	25.30	0.63	251	Vertical
6	3150.4650	-48.98	-45.82	-20.00	25.82	3.16	214	Vertical

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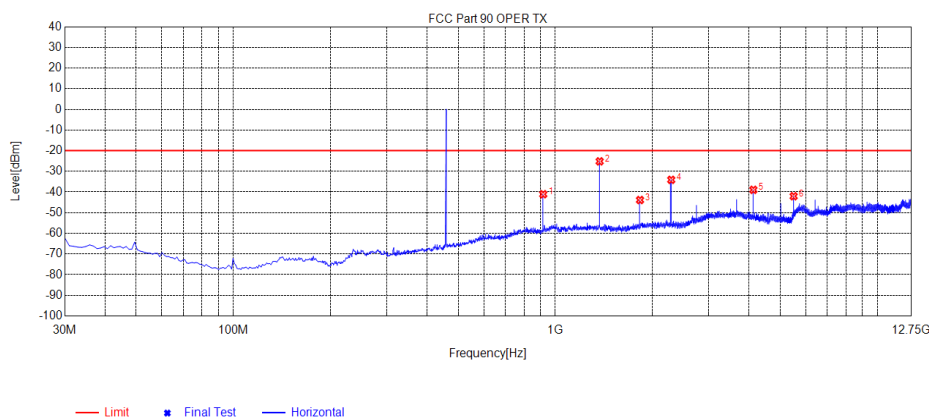




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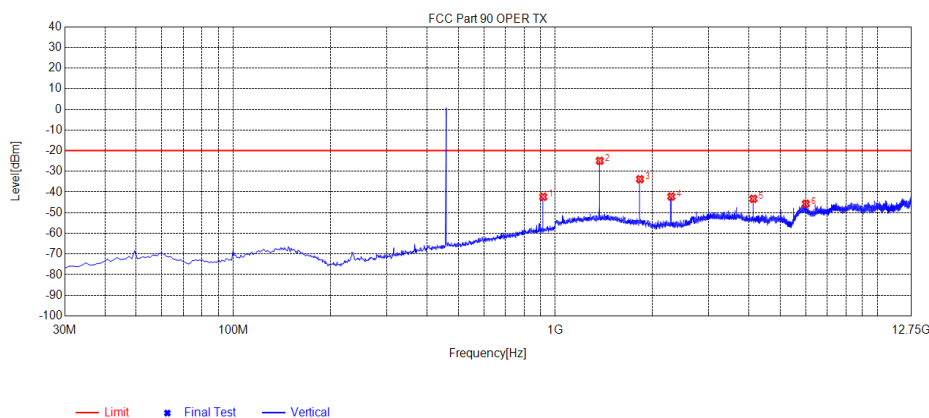


Test Mode:	TX:458.2125MHz-FM 6W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	917.5500	-84.40	-41.08	-20.00	21.08	43.32	202	Horizontal
2	1373.6874	-21.68	-25.16	-20.00	5.16	-3.48	193	Horizontal
3	1833.1583	-43.15	-43.87	-20.00	23.87	-0.72	165	Horizontal
4	2291.4541	-33.48	-34.10	-20.00	14.10	-0.62	146	Horizontal
5	4123.4623	-43.38	-38.94	-20.00	18.94	4.44	350	Horizontal
6	5498.3498	-50.94	-42.04	-20.00	22.04	8.90	81	Horizontal

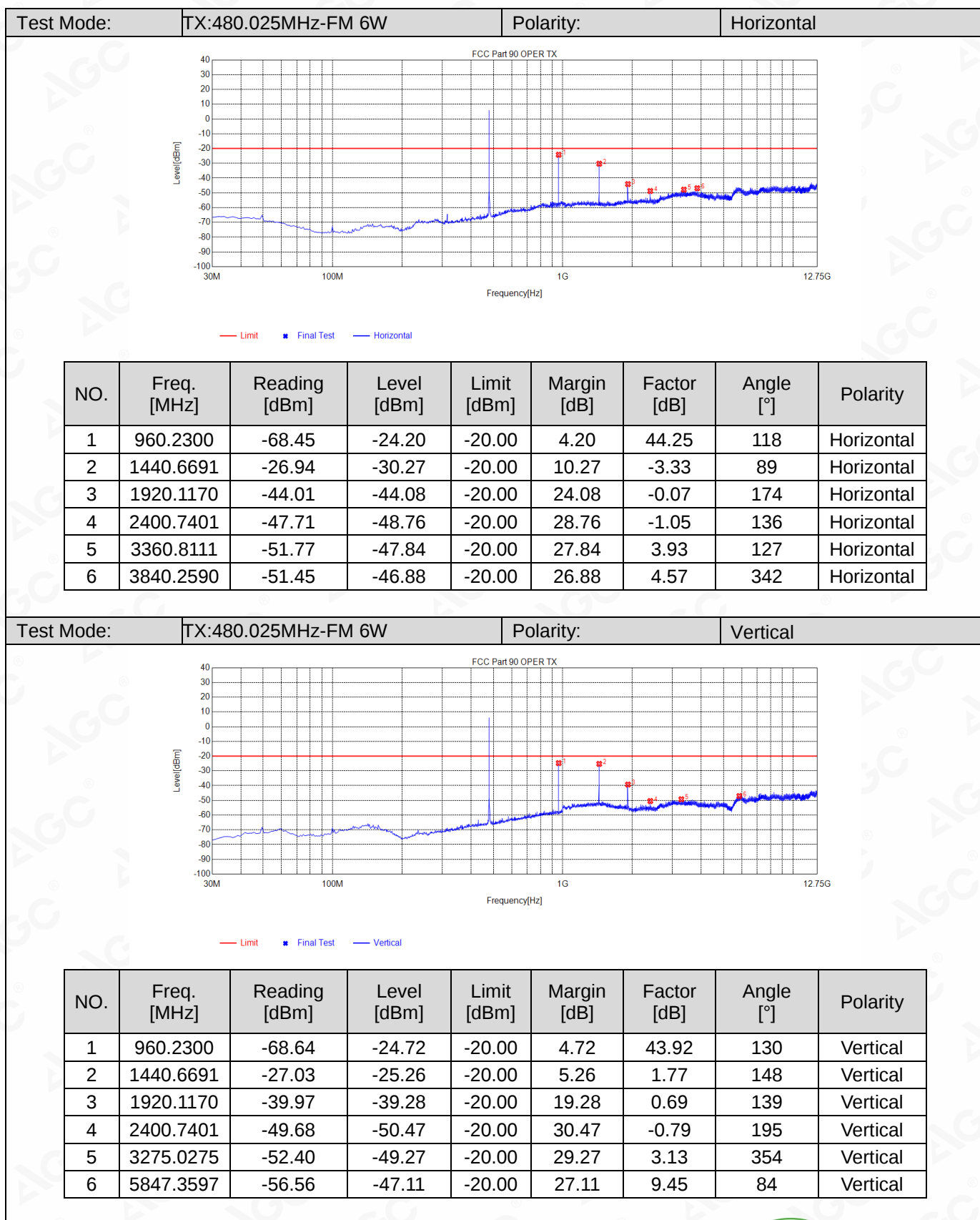
Test Mode:	TX:458.2125MHz-FM 6W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	917.5500	-85.79	-42.30	-20.00	22.30	43.49	213	Vertical
2	1374.8625	-26.23	-24.90	-20.00	4.90	1.33	176	Vertical
3	1833.1583	-34.78	-33.79	-20.00	13.79	0.99	148	Vertical
4	2291.4541	-41.74	-42.20	-20.00	22.20	-0.46	186	Vertical
5	4123.4623	-46.51	-43.28	-20.00	23.28	3.23	139	Vertical
6	6000.1250	-56.60	-45.67	-20.00	25.67	10.93	335	Vertical

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Test Mode:	TX:511.975MHz-FM 6W	Polarity:	Horizontal
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FCC Part 90 OPER TX

Level [dBm]

Frequency [Hz]

— Limit ■ Final Test — Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1535.8536	-23.32	-26.26	-20.00	6.26	-2.94	126	Horizontal
2	2048.2048	-45.61	-45.27	-20.00	25.27	0.34	145	Horizontal
3	3071.7322	-49.42	-46.00	-20.00	26.00	3.42	351	Horizontal
4	3584.0834	-46.46	-42.18	-20.00	22.18	4.28	70	Horizontal
5	4096.4346	-48.83	-44.32	-20.00	24.32	4.51	342	Horizontal
6	5632.3132	-53.40	-43.98	-20.00	23.98	9.42	267	Horizontal

Test Mode:	TX:511.975MHz-FM 6W	Polarity:	Vertical
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FCC Part 90 OPER TX

Level [dBm]

Frequency [Hz]

— Limit ■ Final Test — Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1535.8536	-28.59	-26.56	-20.00	6.56	2.03	168	Vertical
2	2048.2048	-45.09	-44.82	-20.00	24.82	0.27	149	Vertical
3	3071.7322	-48.48	-45.29	-20.00	25.29	3.19	205	Vertical
4	3584.0834	-50.07	-46.97	-20.00	26.97	3.10	130	Vertical
5	4096.4346	-50.86	-47.61	-20.00	27.61	3.25	130	Vertical
6	5632.3132	-51.80	-44.44	-20.00	24.44	7.36	233	Vertical

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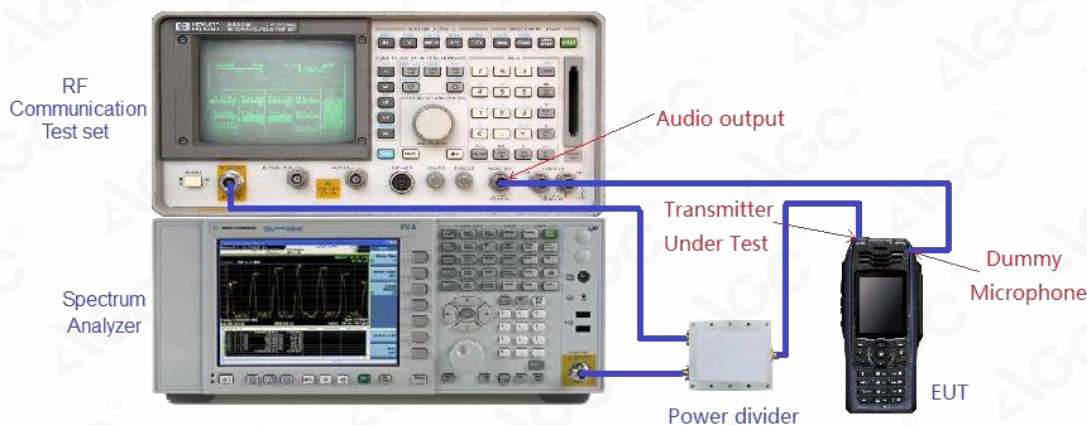
8.5 EMISSION MASK PLOT

The detailed procedure employed for Emission Mask measurements are specified as following:

-Connect the equipment as illustrated.

-Spectrum set as follow:

1. Centre frequency = fundamental frequency, Span=50kHz for 12.5kHz and 25kHz channel spacing, RBW=100Hz, VBW=300Hz for 12.5kHz, RBW=300Hz, VBW=1000Hz for 25kHz, Sweep = auto, Detector function = peak, Trace = max hold
2. Key the transmitter, and set the level of the unmodulated carrier to a fullscale reference line. This is the 0dB reference for the measurement.
3. Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation (Rated system deviation is 2.5 kHz for 12.5kHz channel spacing).
The input level shall be established at the frequency of maximum response of the audio modulating circuit.
4. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
5. Measure and record the results in the test report.

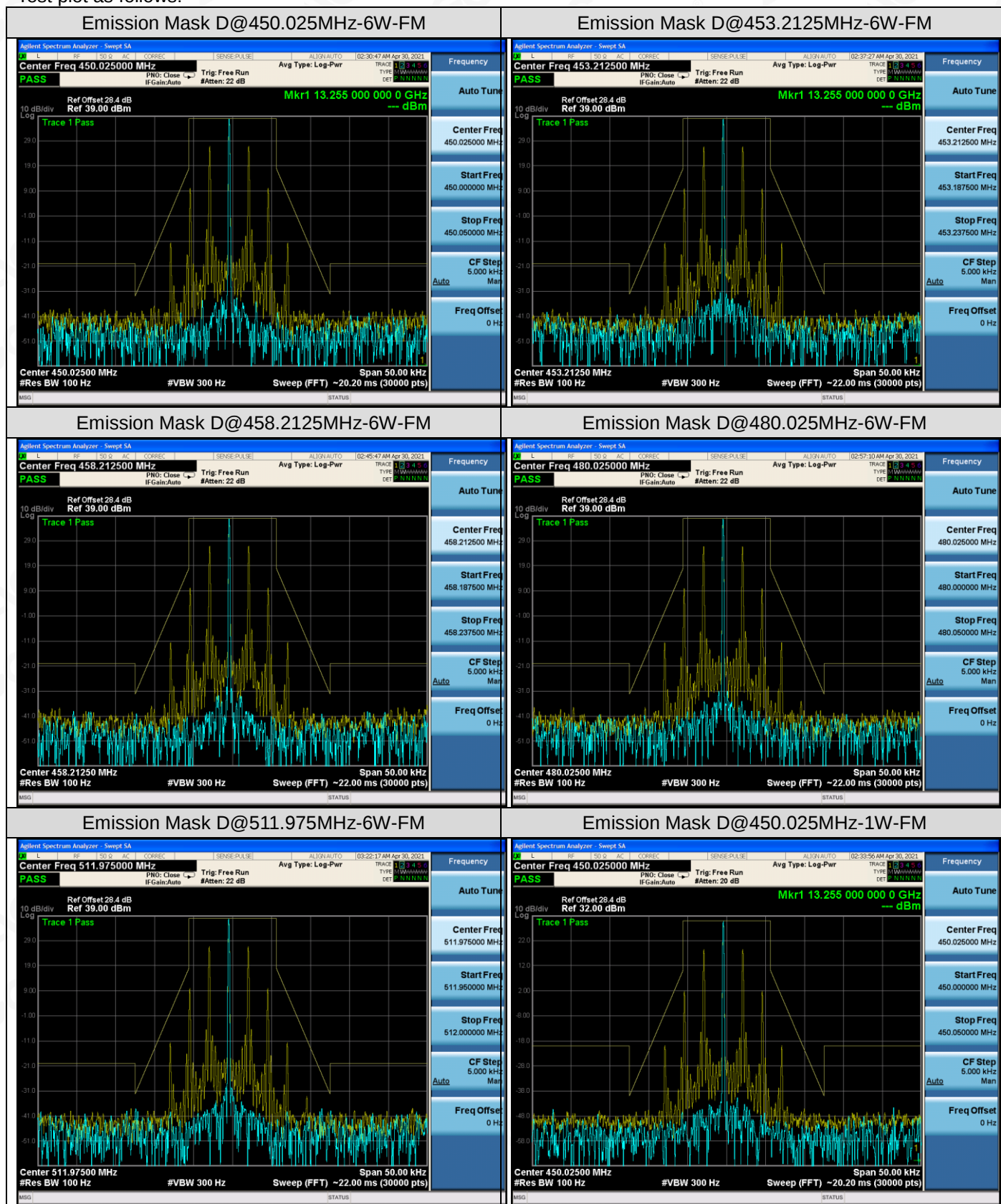


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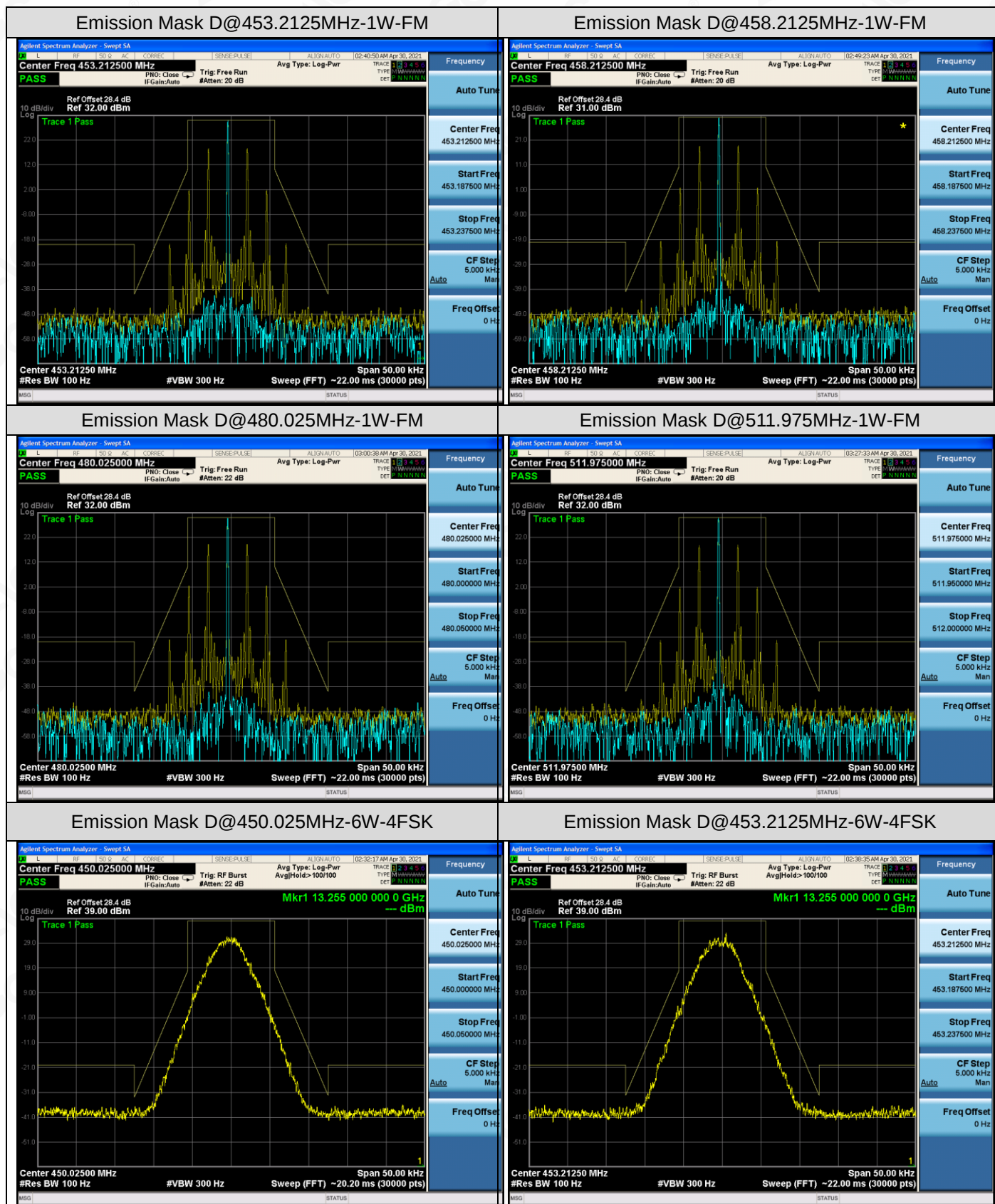
Test plot as follows:



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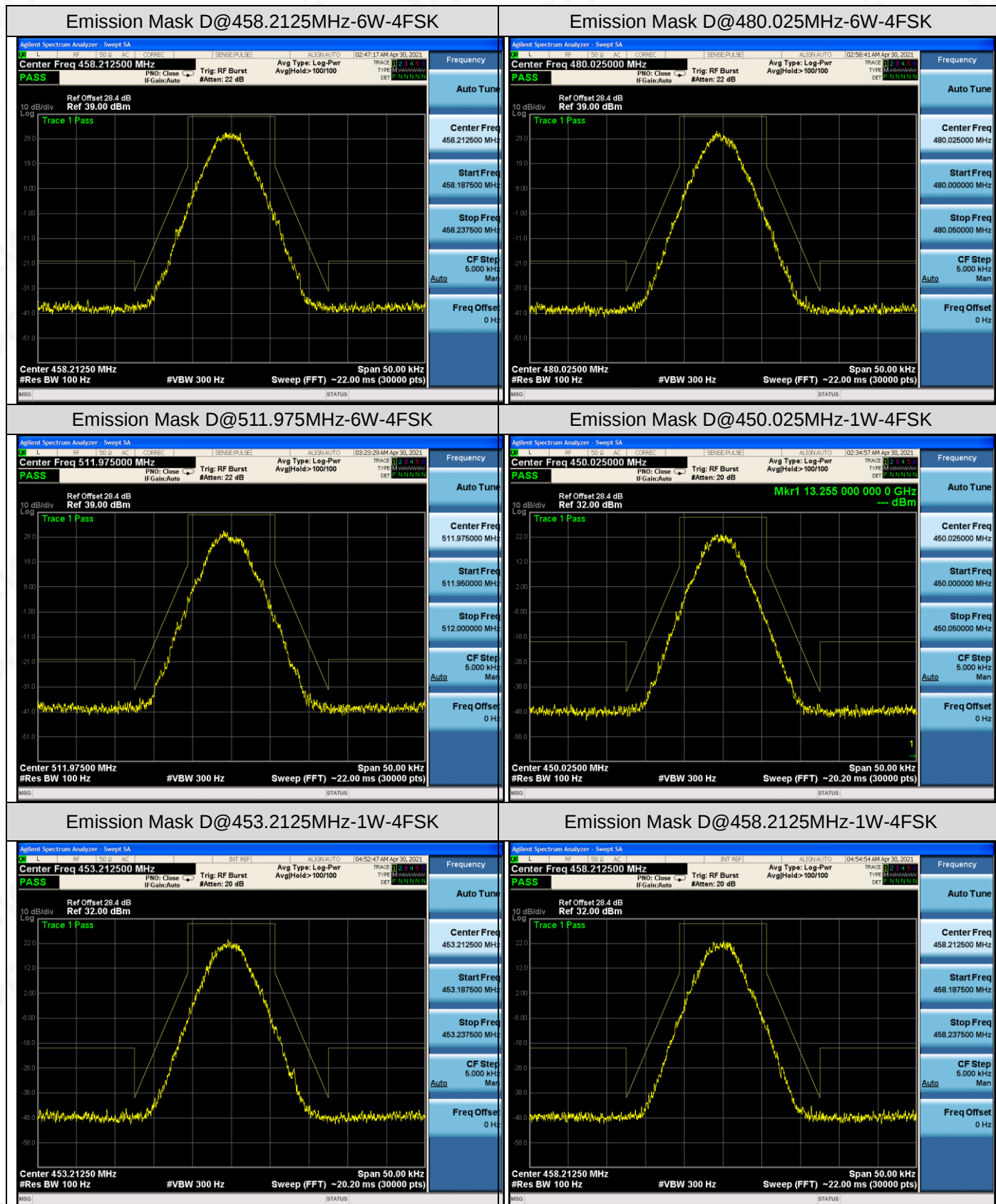
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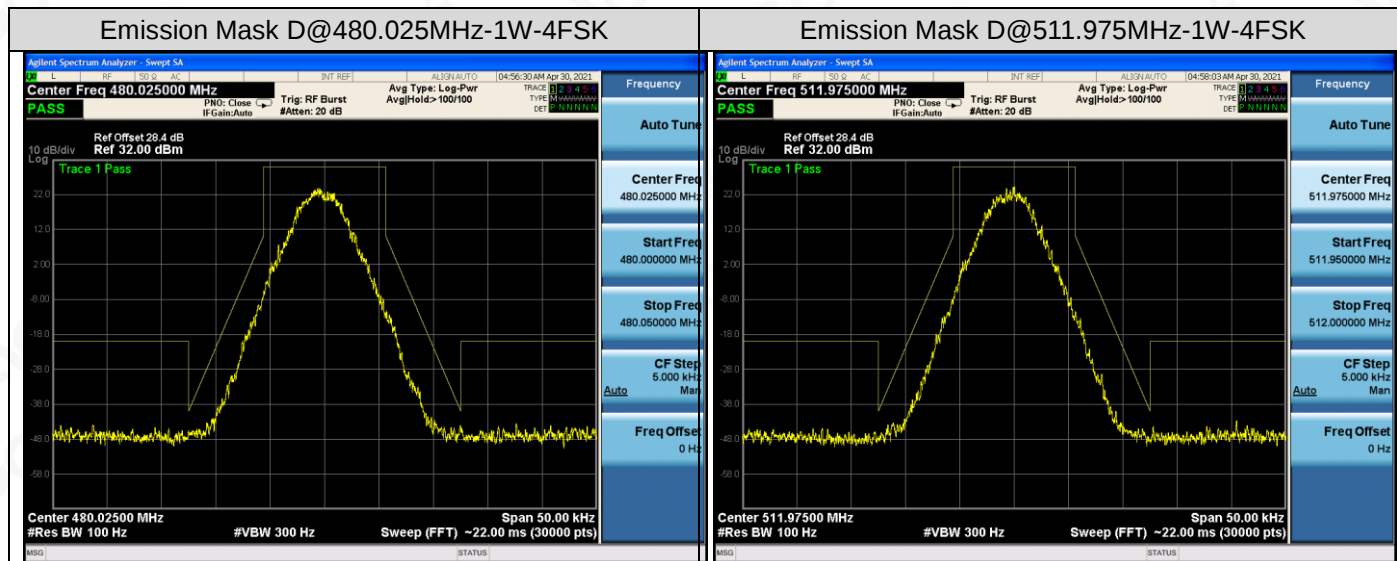
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9. MODULATION CHARACTERISTICS

9.1 PROVISIONS APPLICABLE

According to FCC§2.1047 and §90.207, for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

9.2 MEASUREMENT METHOD

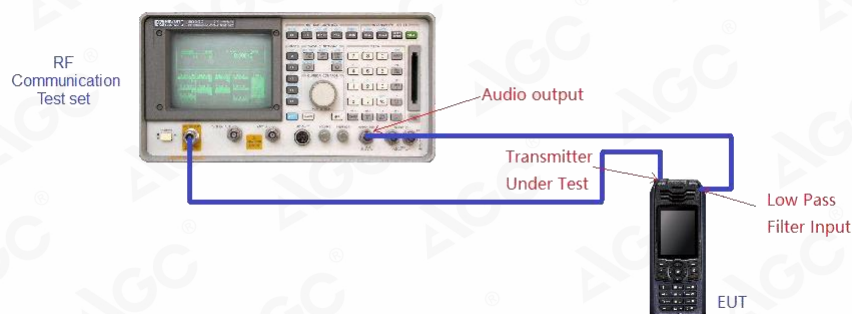
9.2.1 Modulation Limit

- (1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1kHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- (2). Repeat step 1 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

9.2.2 Audio Frequency Response

- (1). Configure the EUT as shown in figure 1.
- (2). Adjust the audio input for 20% of rated system deviation at 1 kHz using this level as a reference (0 dB).
- (3). Vary the Audio frequency from 100 Hz to 10 kHz and record the frequency deviation.
- (4). Audio Frequency Response = $20\log_{10} (\text{Deviation of test frequency} / \text{Deviation of 1 kHz reference})$.

9.3 MEASUREMENT SETUP



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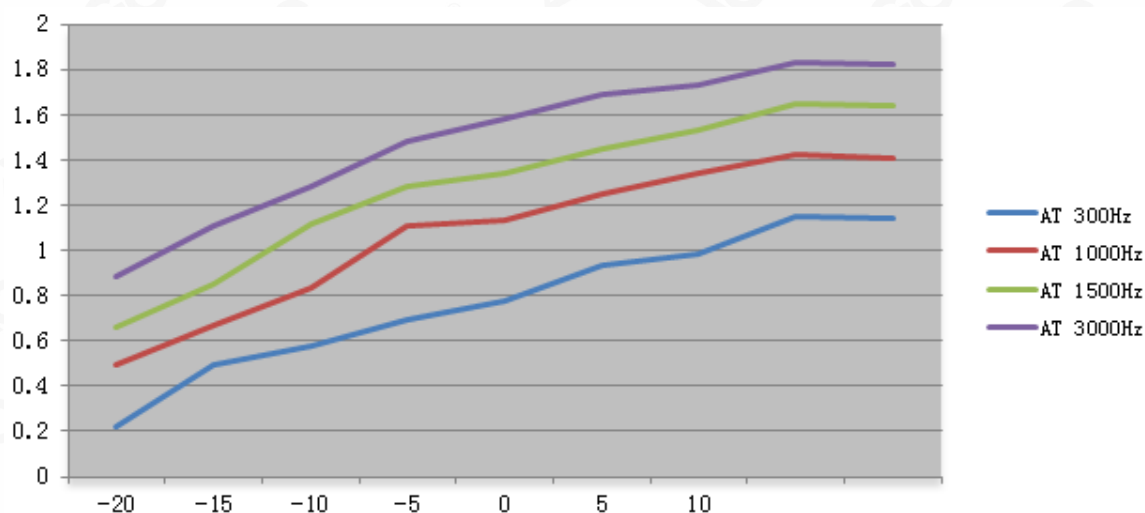
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9.4 MEASUREMENT RESULTS

(A). MODULATION LIMIT:

12.5kHz, Analog modulation, Assigned Frequency:450.025MHz-6W				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.22	0.49	0.66	0.88
-15	0.49	0.67	0.85	1.11
-10	0.58	0.83	1.12	1.28
-5	0.69	1.11	1.28	1.48
0	0.78	1.13	1.34	1.58
+5	0.93	1.25	1.45	1.69
+10	0.98	1.34	1.53	1.73
+15	1.15	1.42	1.65	1.83
+20	1.14	1.41	1.64	1.82

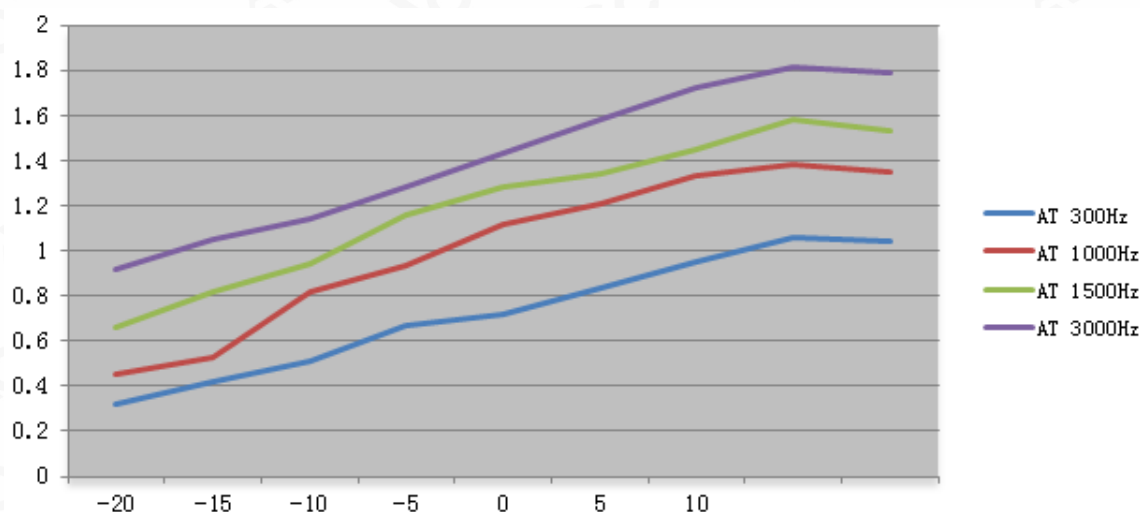


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12.5kHz, Analog modulation, Assigned Frequency:450.025MHz-1W				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.32	0.45	0.66	0.92
-15	0.42	0.53	0.82	1.05
-10	0.51	0.82	0.94	1.14
-5	0.67	0.93	1.16	1.28
0	0.72	1.12	1.28	1.43
+5	0.83	1.21	1.34	1.58
+10	0.95	1.33	1.45	1.72
+15	1.06	1.38	1.58	1.81
+20	1.04	1.35	1.53	1.79



Note: All the modes had been tested, but only the worst data recorded in the report.

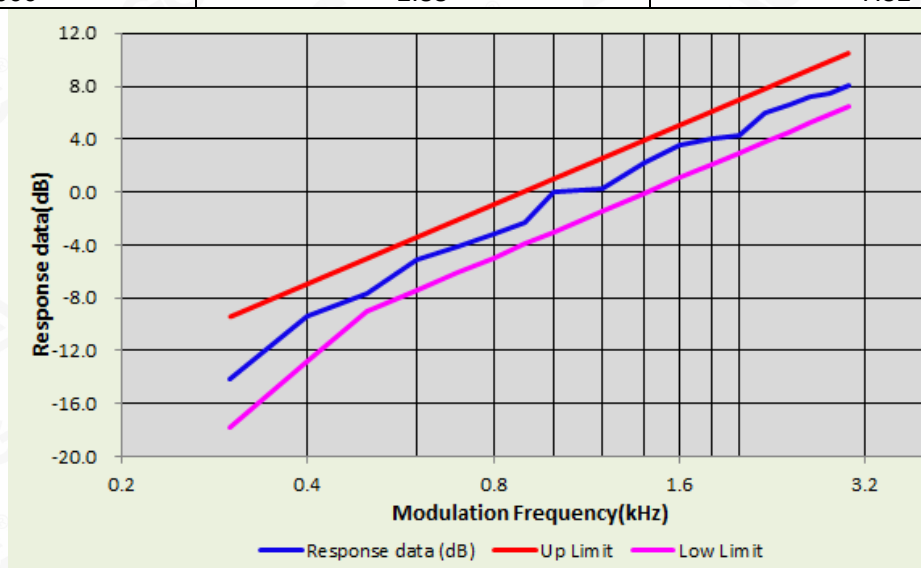
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(B). AUDIO FREQUENCY RESPONSE:

12.5kHz, Analog modulation, Assigned Frequency:450.025MHz-6W		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.11	-14.14
400	0.19	-9.39
500	0.23	-7.73
600	0.31	-5.14
700	0.35	-4.08
800	0.39	-3.14
900	0.43	-2.29
1000	0.56	0.00
1200	0.58	0.30
1400	0.72	2.18
1600	0.84	3.52
1800	0.89	4.02
2000	0.92	4.31
2400	1.11	5.94
2500	1.19	6.55
2800	1.28	7.18
3000	1.33	7.51



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