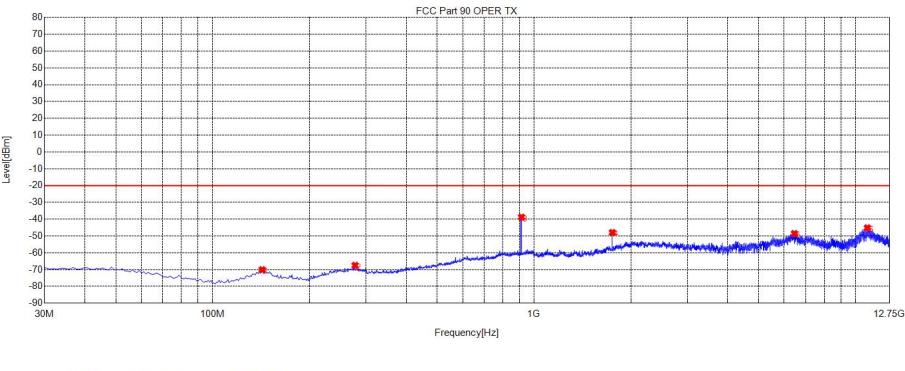
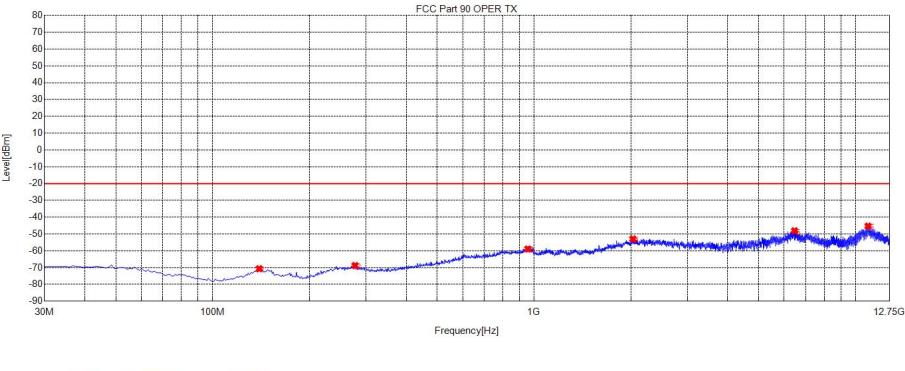


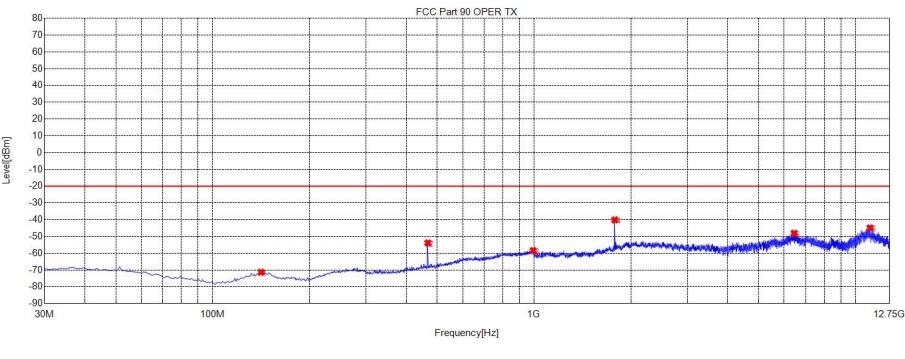
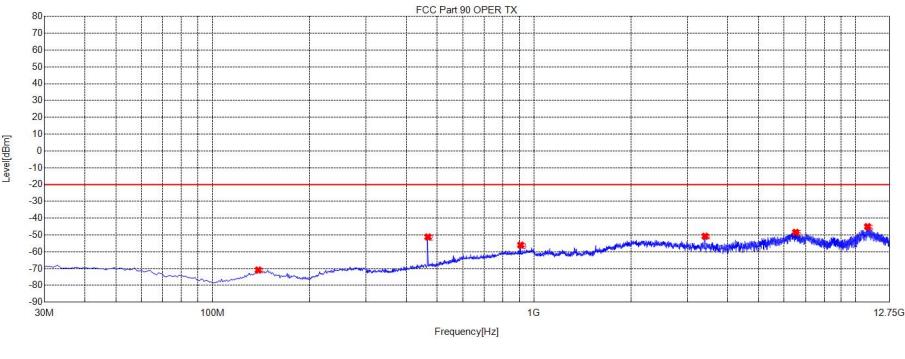
Test Mode:		TX:136.025MHz-4FSK-DC13.8V		Polarity:		Horizontal		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	142.52	-97.17	-70.08	-20.00	50.08	27.09	101	Horizontal
2	277.35	-95.78	-67.48	-20.00	47.48	28.30	172	Horizontal
3	913.67	-76.61	-38.82	-20.00	18.82	37.79	199	Horizontal
4	1752.0752	-46.93	-47.96	-20.00	27.96	-1.03	22	Horizontal
5	6454.8955	-56.12	-48.55	-20.00	28.55	7.57	93	Horizontal
6	10887.4387	-58.62	-45.17	-20.00	25.17	13.45	287	Horizontal
Test Mode:		TX:136.025MHz-4FSK-DC13.8V		Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	139.61	-97.93	-70.67	-20.00	50.67	27.26	329	Vertical
2	277.35	-97.07	-68.77	-20.00	48.77	28.30	311	Vertical
3	956.35	-97.48	-58.92	-20.00	38.92	38.56	28	Vertical
4	2028.2278	-54.99	-52.94	-20.00	32.94	2.05	240	Vertical
5	6463.1213	-55.71	-48.11	-20.00	28.11	7.60	143	Vertical
6	10941.4941	-58.91	-45.28	-20.00	25.28	13.63	329	Vertical

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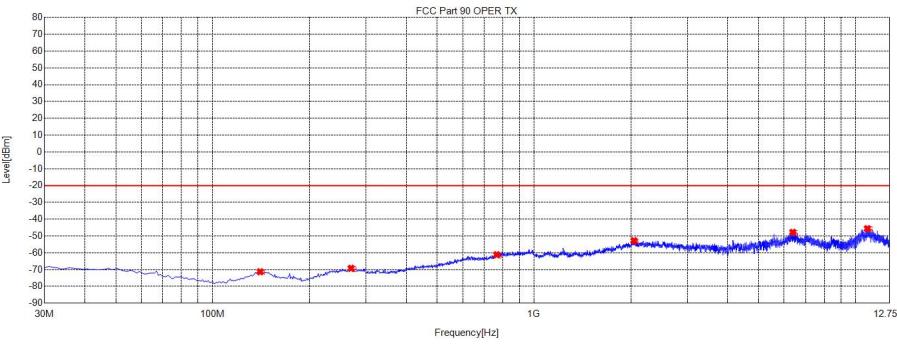
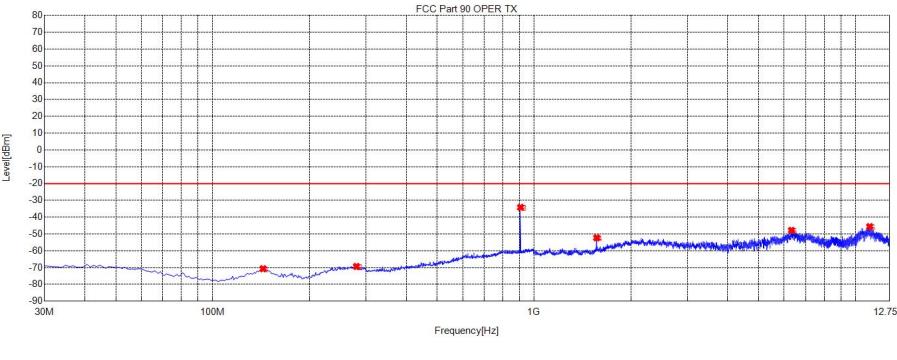
Test Mode:		TX:155.7525MHz-4FSK-DC13.8V		Polarity:		Horizontal		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	141.55	-98.53	-71.35	-20.00	51.35	27.18	281	Horizontal
2	467.47	-85.17	-53.88	-20.00	33.88	31.29	316	Horizontal
3	993.21	-97.25	-58.45	-20.00	38.45	38.80	113	Horizontal
4	1783.8034	-39.48	-40.13	-20.00	20.13	-0.65	0	Horizontal
5	6445.4945	-55.63	-48.08	-20.00	28.08	7.55	0	Horizontal
6	11101.3101	-58.65	-44.91	-20.00	24.91	13.74	246	Horizontal
Test Mode:		TX:155.7525MHz-4FSK-DC13.8V		Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	138.64	-97.91	-70.88	-20.00	50.88	27.03	247	Vertical
2	467.47	-82.46	-51.17	-20.00	31.17	31.29	256	Vertical
3	908.82	-93.71	-56.00	-20.00	36.00	37.71	141	Vertical
4	3404.2904	-52.90	-50.76	-20.00	30.76	2.14	359	Vertical
5	6512.4762	-56.08	-48.40	-20.00	28.40	7.68	132	Vertical
6	10905.0655	-58.54	-45.03	-20.00	25.03	13.51	70	Vertical

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Test Mode:		TX:173.975MHz-4FSK-DC13.8V		Polarity:		Horizontal		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	140.58	-98.57	-71.28	-20.00	51.28	27.29	350	Horizontal
2	269.59	-97.62	-69.22	-20.00	49.22	28.40	278	Horizontal
3	765.26	-97.41	-61.14	-20.00	41.14	36.27	340	Horizontal
4	2045.8546	-54.87	-52.80	-20.00	32.80	2.07	83	Horizontal
5	6382.0382	-55.25	-47.81	-20.00	27.81	7.44	146	Horizontal
6	10889.789	-59.07	-45.61	-20.00	25.61	13.46	296	Horizontal
Test Mode:		TX:173.975MHz-4FSK-DC13.8V		Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	143.49	-97.67	-70.68	-20.00	50.68	26.99	189	Vertical
2	280.26	-97.58	-69.31	-20.00	49.31	28.27	294	Vertical
3	907.85	-71.81	-34.13	-20.00	14.13	37.68	225	Vertical
4	1566.4066	-49.00	-52.31	-20.00	32.31	-3.31	189	Vertical
5	6322.1072	-55.15	-47.84	-20.00	27.84	7.31	10	Vertical
6	11069.582	-59.38	-45.62	-20.00	25.62	13.76	162	Vertical

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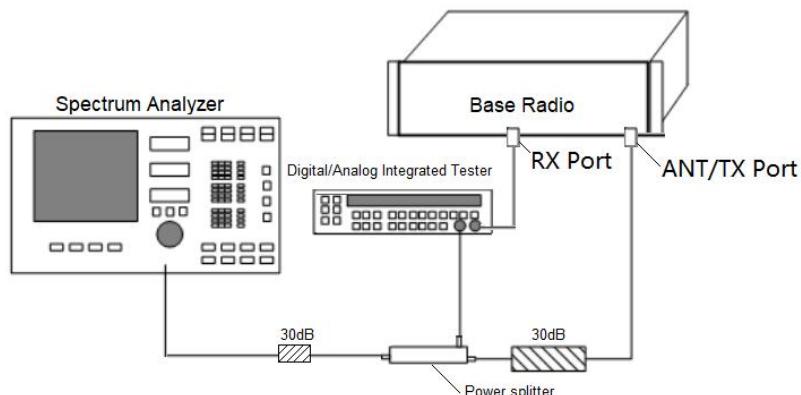
8.5 Emission Mask Measurement Part

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 channel spacing, RBW=100Hz, VBW=300Hz for 12.5kHz, 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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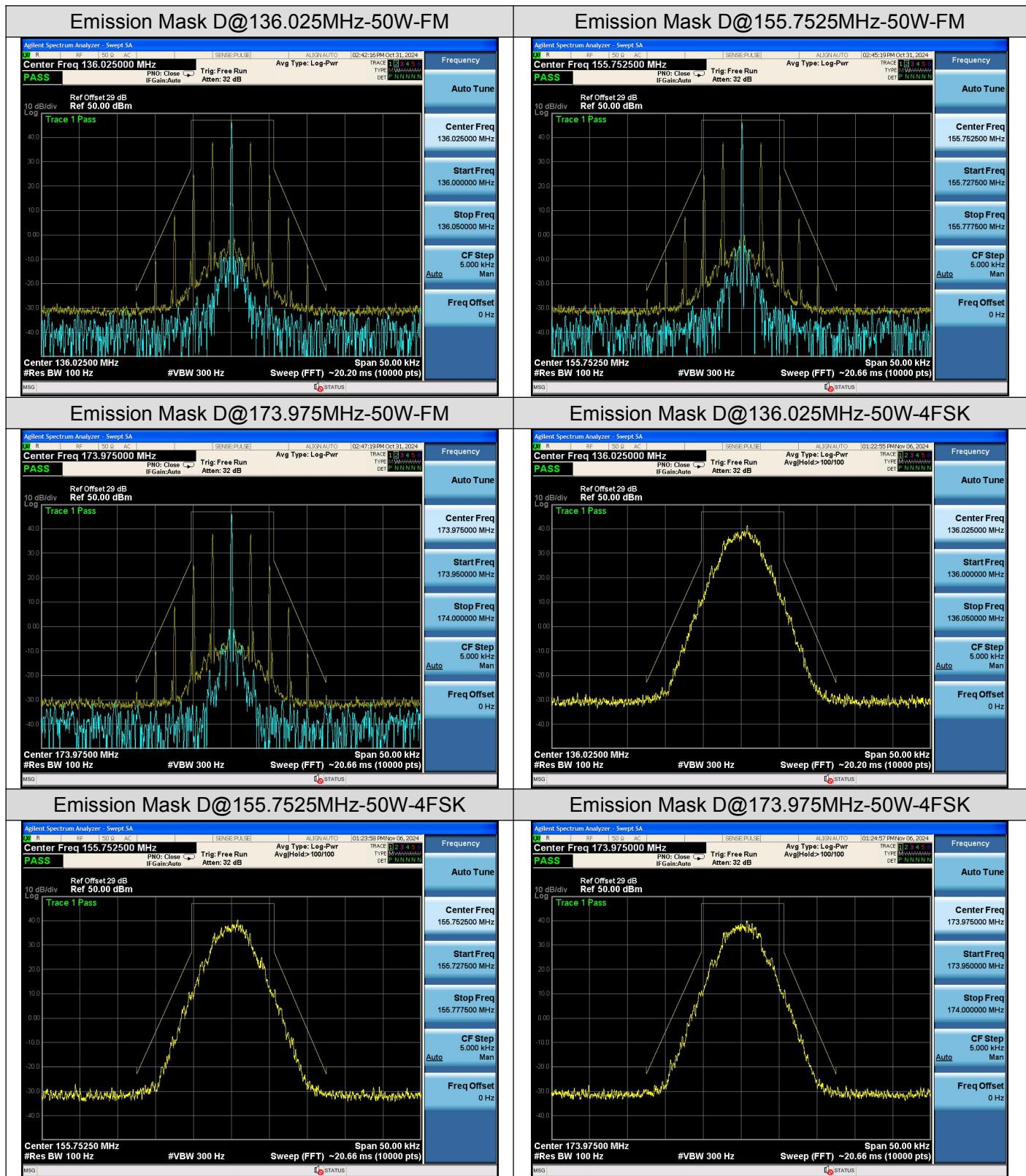
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Measurement Power Supply: AC 120V

Test plot as follows:



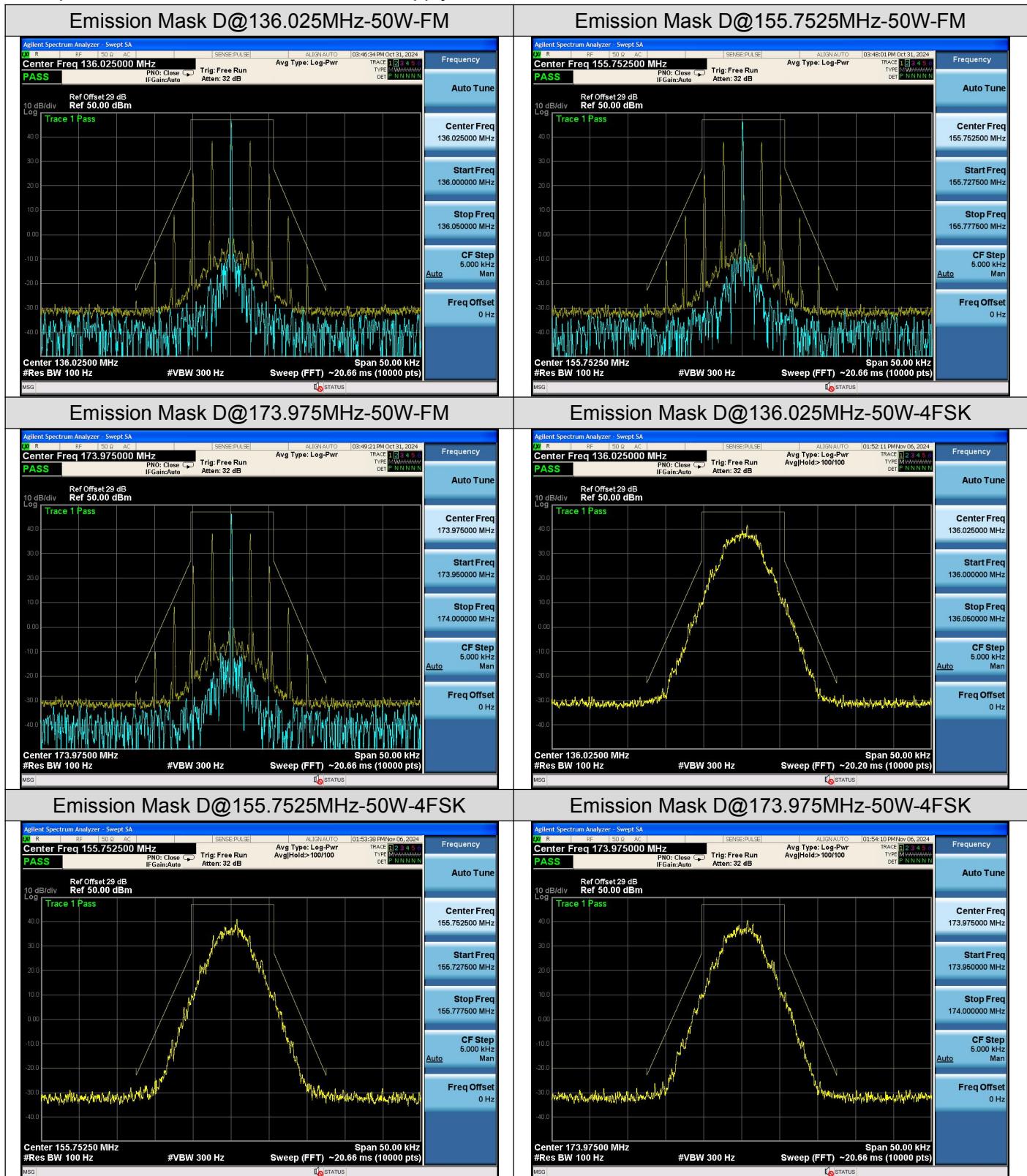
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Test plot as follows Measurement Power Supply: DC 13.8V



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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 Procedure

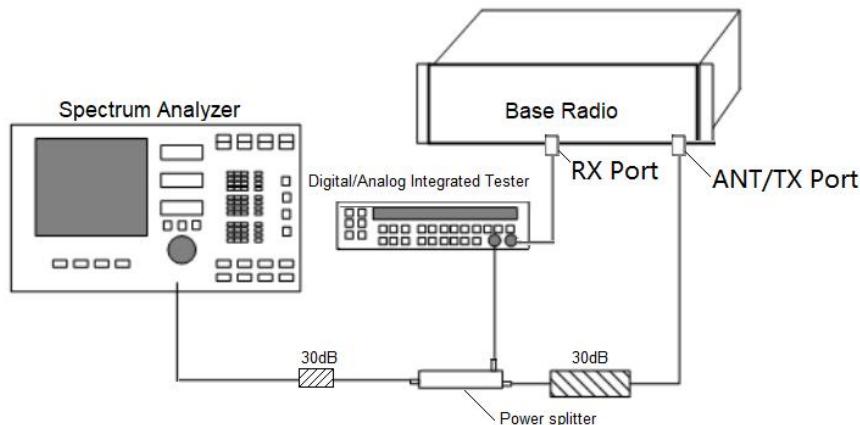
● Modulation Limit

1. Test layout and build equipment as shown below.
2. adjust the audio input for 60% of rated system deviation at 1kHz using this level as a reference (0dB).
3. Vary the input level from -20 to +20dB.
4. Record the frequency deviation obtained as a function of the input level.
5. Repeat step 2 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

● Audio Frequency Response

1. Test layout and build equipment as shown below.
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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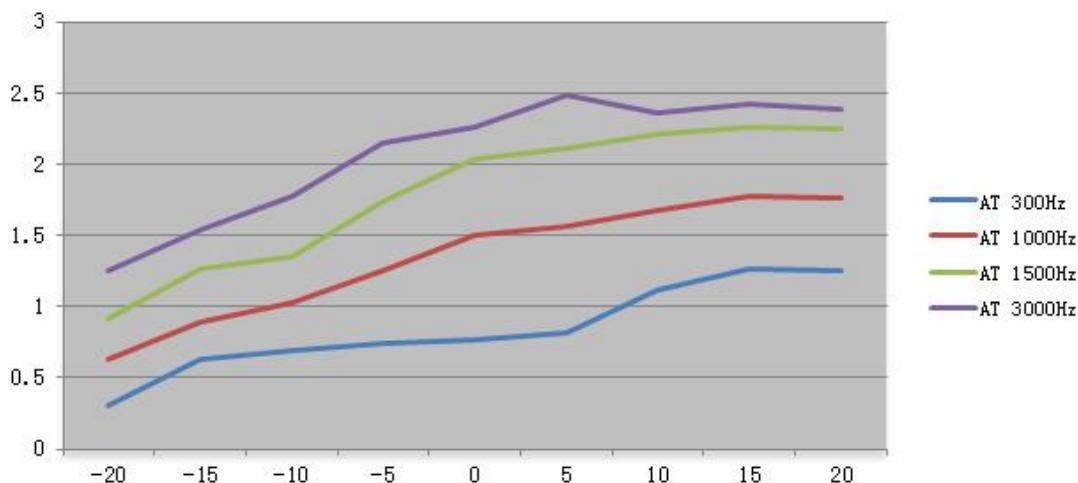
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9.4 Measurement Result

Measurement Power Supply: AC 120V

A. Modulation Limit:

12.5kHz, Analog modulation, Assigned Frequency:136.025MH-50W				
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	0.31	0.63	0.92	1.25
-15	0.63	0.89	1.26	1.54
-10	0.69	1.03	1.35	1.78
-5	0.74	1.25	1.74	2.15
0	0.77	1.5	2.03	2.26
+5	0.82	1.56	2.11	2.48
+10	1.12	1.68	2.21	2.36
+15	1.26	1.78	2.26	2.42
+20	1.25	1.76	2.25	2.39



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:136.025MHz-50W		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.23	-12.14
400	0.33	-9.00
500	0.45	-6.31
600	0.51	-5.22
700	0.53	-4.88
800	0.65	-3.11
900	0.78	-1.53
1000	0.93	0.00
1200	0.98	0.45
1400	1.15	1.84
1600	1.34	3.17
1800	1.48	4.04
2000	1.74	5.44
2400	2.03	6.78
2500	2.12	7.16
2800	2.25	7.67
3000	2.31	7.90



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

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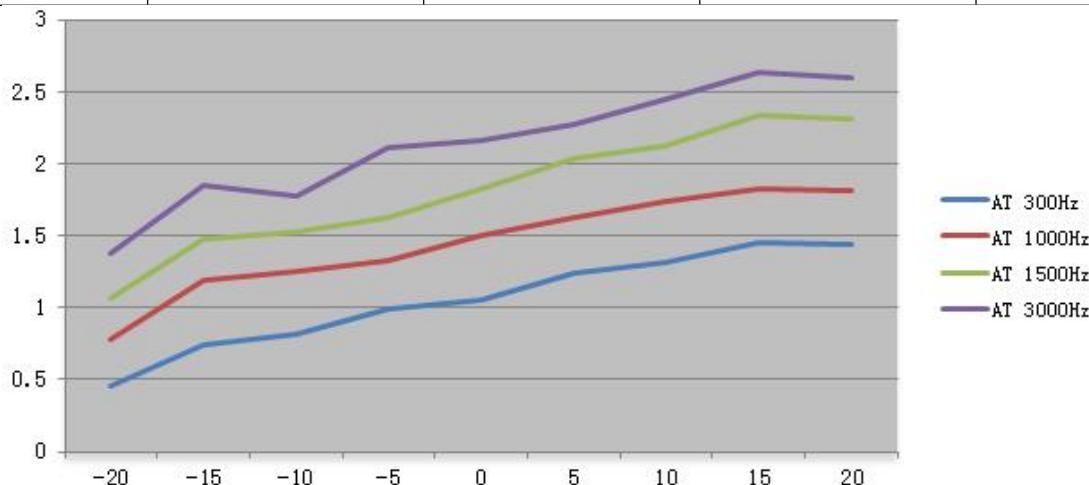
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Measurement Power Supply: DC 13.8V
A. Modulation Limit:

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz-50W				
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	0.45	0.78	1.06	1.37
-15	0.74	1.19	1.48	1.85
-10	0.82	1.25	1.52	1.78
-5	0.99	1.32	1.63	2.11
0	1.05	1.5	1.82	2.16
+5	1.24	1.63	2.04	2.27
+10	1.31	1.74	2.12	2.44
+15	1.45	1.82	2.34	2.63
+20	1.44	1.81	2.31	2.59



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:136.025MHz-50W		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
0.24	-11.95	
0.36	-8.43	
0.47	-6.11	
0.53	-5.07	
0.55	-4.75	
0.63	-3.57	
0.71	-2.53	
0.95	0.00	
1.03	0.70	
1.22	2.17	
1.36	3.12	
1.52	4.08	
1.78	5.45	
1.83	5.69	
1.99	6.42	
2.12	6.97	
2.25	7.49	



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

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10. Maximum Transmitter Power

10.1 Provisions Applicable

Per FCC §2.1046 and §90.205: Maximum ERP is dependent upon the station's antenna HAAT and required service area.

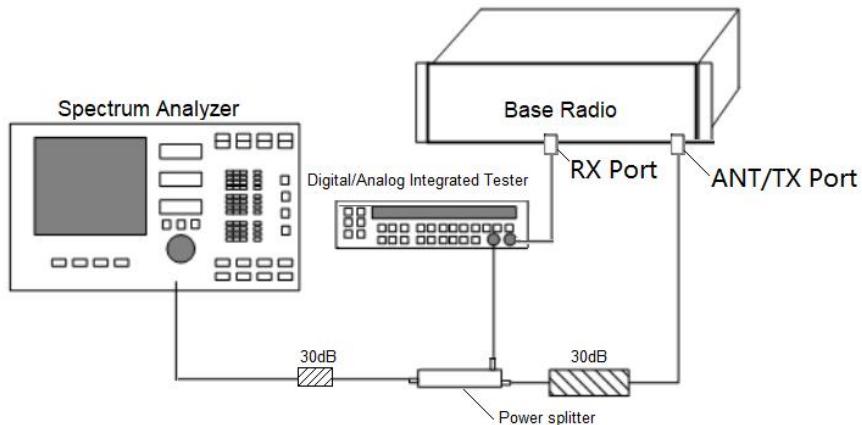
10.2 Measurement Procedure

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator. In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The "Read Value" is the spectrum reading of maximum power value. The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum.

So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
EIRP = "Read Value" + Measured substitution value + 2.15.

10.3 Measurement Setup

Conducted Output Power:



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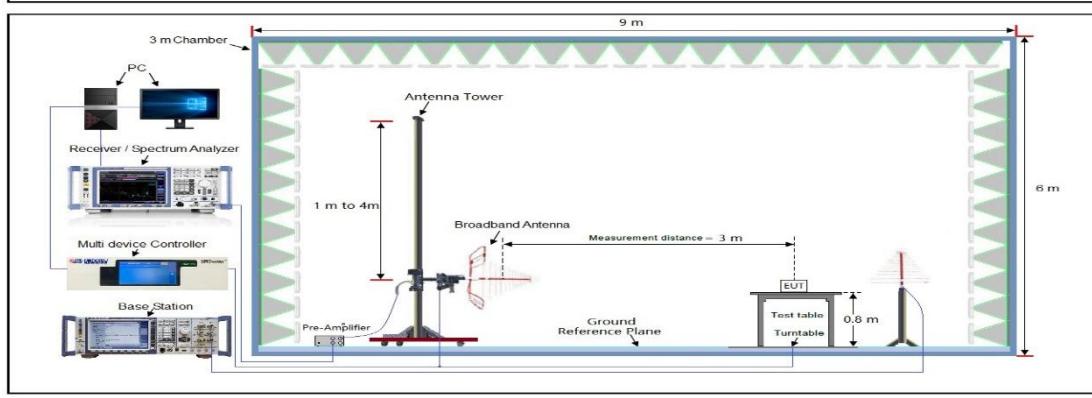
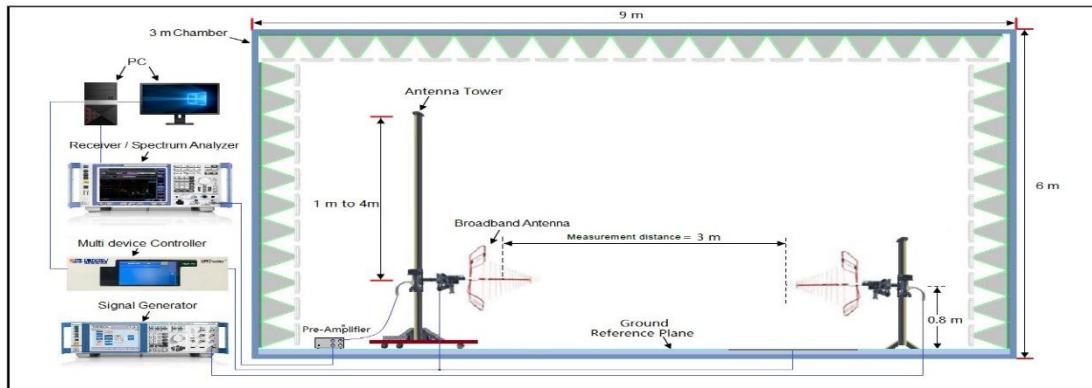
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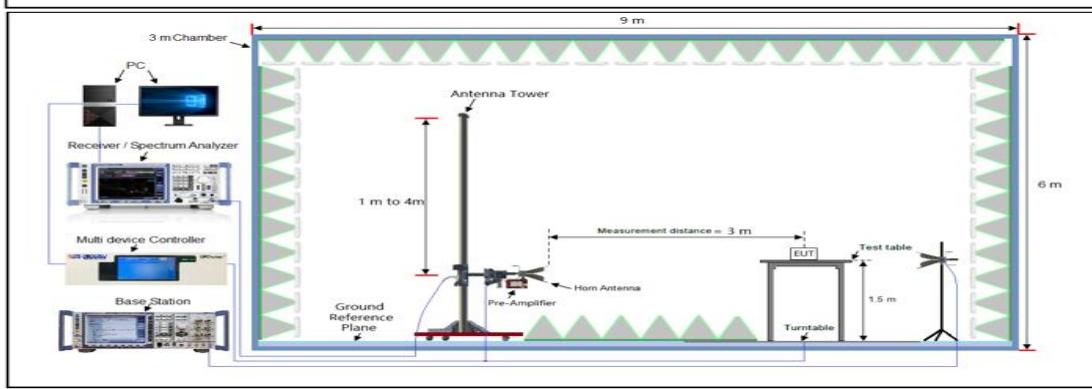
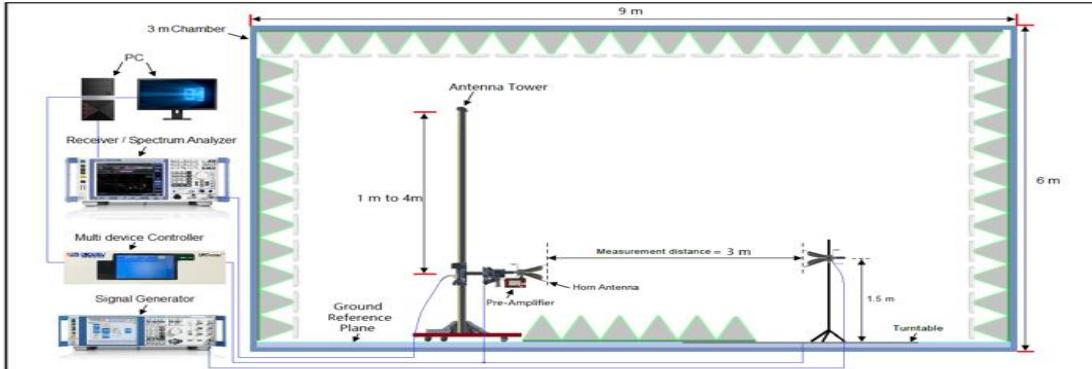
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Effective Radiated Power:

Radiated Below 1GHz



Radiated Above 1 GHz



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10.4 Measurement Result

Measurement Power Supply: AC 120V

Conducted Power Measurement Results				
Mode	Channel Separation	Test Channel	Measurement Result (dBm)	
			For 46.99dBm(50W)	
Analog	12.5 kHz	Bottom(136.025MHz)	46.523	
		Middle(155.7525MHz)	46.267	
		Top (173.975MHz)	46.126	
Digital	12.5 kHz	Bottom(136.025MHz)	46.563	
		Middle(155.7525MHz)	46.291	
		Top (173.975MHz)	46.181	

Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dB _{UV} /m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog	136.0250	115.67	V	40.44	0.62	6.5	46.319	46.99
	136.0250	115.64	H	40.41	0.62	6.5	46.289	46.99
	155.7525	115.32	V	40.09	0.62	6.5	45.967	46.99
	155.7525	115.31	H	40.08	0.62	6.5	45.958	46.99
	173.9750	115.18	V	39.95	0.62	6.5	45.826	46.99
	173.9750	115.15	H	39.92	0.62	6.5	45.798	46.99
Digital	136.0250	115.71	V	40.48	0.62	6.5	46.361	46.99
	136.0250	115.70	H	40.47	0.62	6.5	46.349	46.99
	155.7525	115.34	V	40.11	0.62	6.5	45.990	46.99
	155.7525	115.32	H	40.09	0.62	6.5	45.974	46.99
	173.9750	115.23	V	40.00	0.62	6.5	45.881	46.99
	173.9750	115.23	H	40.00	0.62	6.5	45.876	46.99

Note:

Calculation Formula: CP = R + A + L

- CP: The final Conducted Power
- R: The reading value from spectrum analyzer
- A: The attenuation value of the used attenuator
- L: The loss of all connection cables
- Measurement Result=Peak Power (Max)

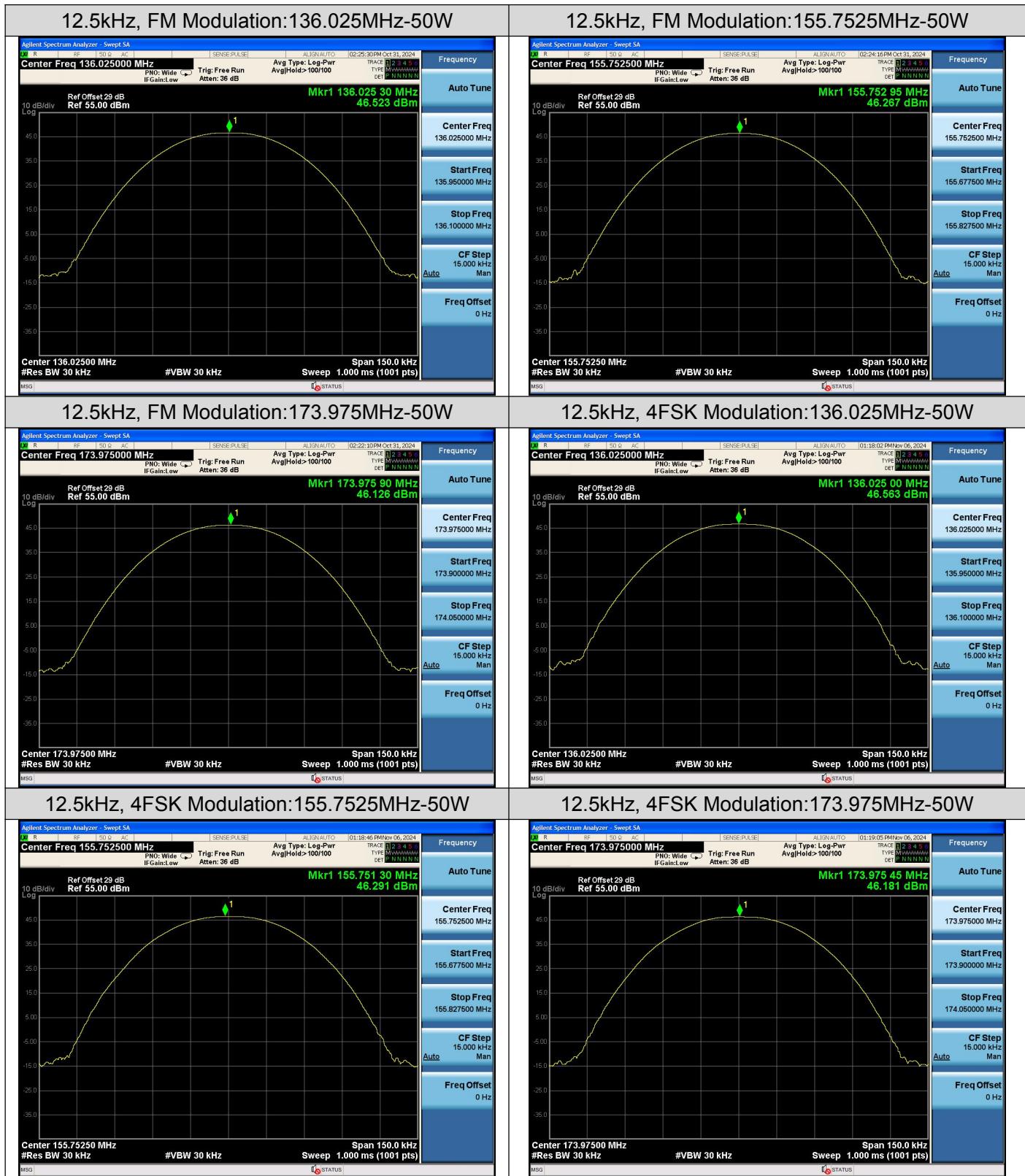
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Test plot as follows:



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Measurement Power Supply: DC 13.8V

Conducted Power Measurement Results				
Mode	Channel Separation	Test Channel	Measurement Result (dBm)	
			For 46.99dBm(50W)	
Analog	12.5 kHz	Bottom(136.025MHz)	46.557	
		Middle(155.7525MHz)	46.288	
		Top (173.975MHz)	46.199	
Digital	12.5 kHz	Bottom(136.025MHz)	46.045	
		Middle(155.7525MHz)	45.837	
		Top (173.975MHz)	45.651	

Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog	136.0250	115.61	V	40.38	0.62	6.5	46.260	46.99
	136.0250	115.55	H	40.32	0.62	6.5	46.198	46.99
	155.7525	115.34	V	40.11	0.62	6.5	45.986	46.99
	155.7525	115.25	H	40.02	0.62	6.5	45.899	46.99
	173.9750	115.23	V	40.00	0.62	6.5	45.882	46.99
	173.9750	115.21	H	39.98	0.62	6.5	45.863	46.99
Digital	136.0250	115.10	V	39.87	0.62	6.5	45.745	46.99
	136.0250	115.08	H	39.85	0.62	6.5	45.732	46.99
	155.7525	114.89	V	39.66	0.62	6.5	45.537	46.99
	155.7525	114.88	H	39.65	0.62	6.5	45.529	46.99
	173.9750	114.70	V	39.47	0.62	6.5	45.351	46.99
	173.9750	114.69	H	39.46	0.62	6.5	45.338	46.99

Note:

 Calculation Formula: $CP = R + A + L$

- CP: The final Conducted Power
- R: The reading value from spectrum analyzer
- A: The attenuation value of the used attenuator
- L: The loss of all connection cables
- Measurement Result=Peak Power (Max)

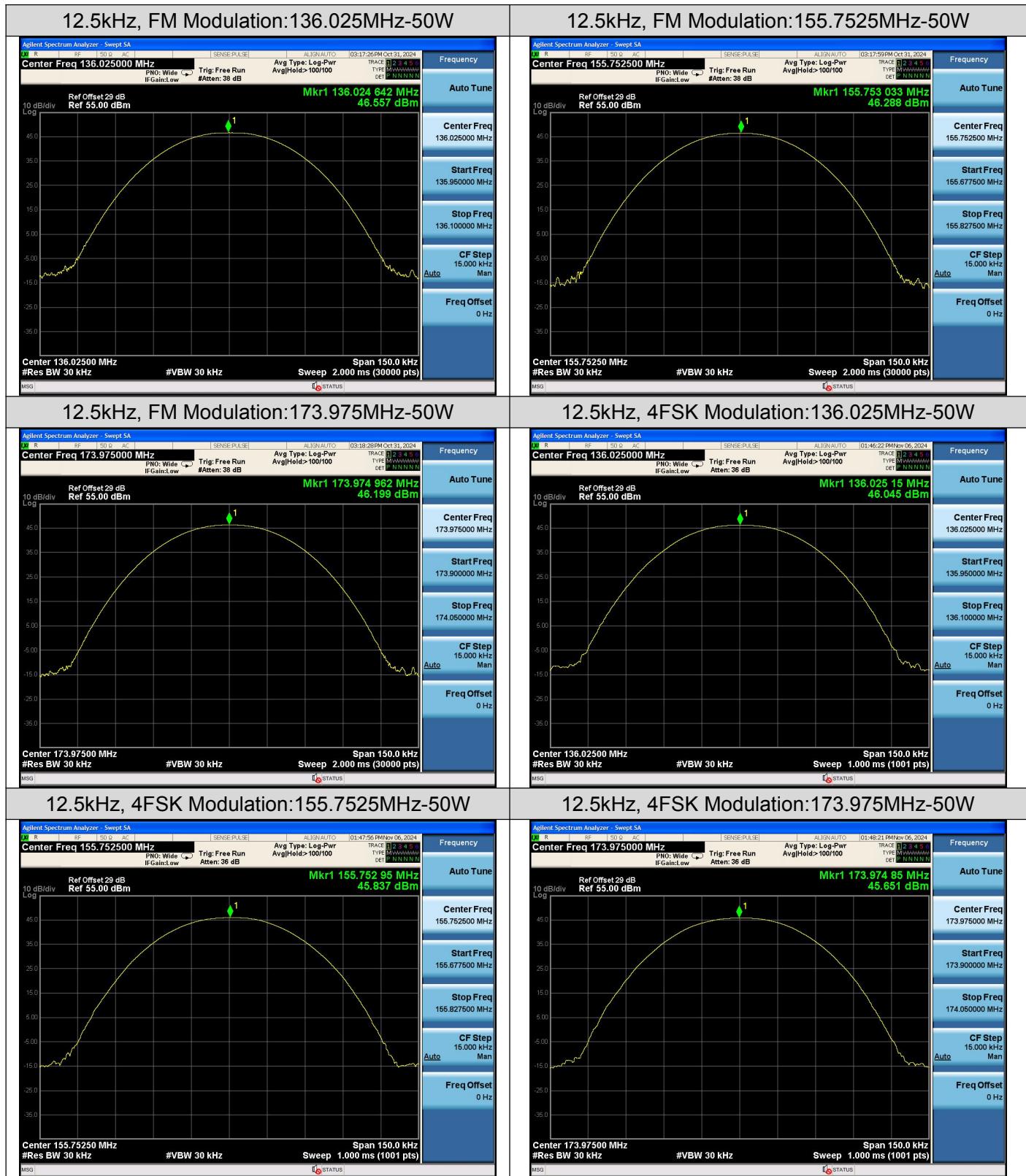
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Test plot as follows:



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11. Spurious Emission on Antenna Port

11.1 Provisions Applicable

Please refer to FCC 47 CFR 2.1051, 2.1057 & 90.210 for specification details.

Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 90.210	At least $50 + 10 \log (P)$ dB

$50 + 10 \log (P_{\text{watts}})$

Note: In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) = $EL - 50 - 10 \log_{10} (TP)$

EL is the emission level of the Output Power expressed in dBm,

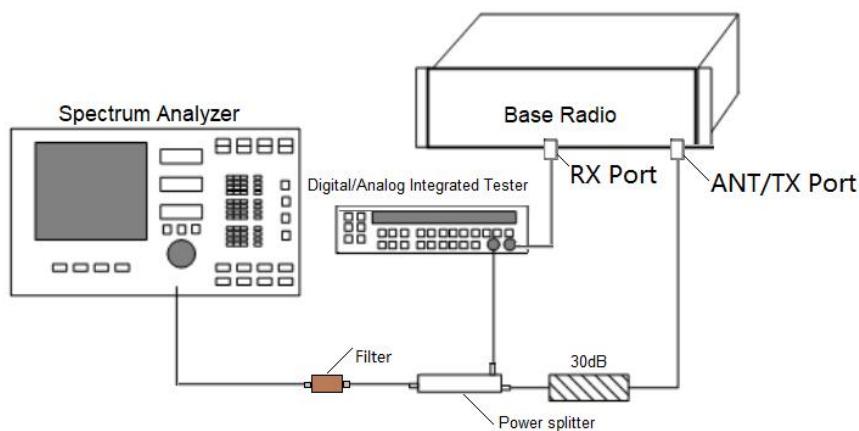
In this application, the EL is P (dBm)

Limit (dBm) = P (dBm) - $50 - 10 \log (P_{\text{watts}}) = -20$ dBm

11.2 Measurement Procedure

1. The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set to 100 kHz. Sufficient scans were taken to
3. show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
4. Set RBW 100 kHz, VBW 300 kHz in the frequency band 30MHz to 1GHz, while set
RBW=1MHz, VBW=3MHz from the 1GHz to 10th Harmonic.
5. The audio input was set the unmodulated carrier, the resulting picture is print out for each channel separation.

11.3 Measurement Setup



11.4 Measurement Result

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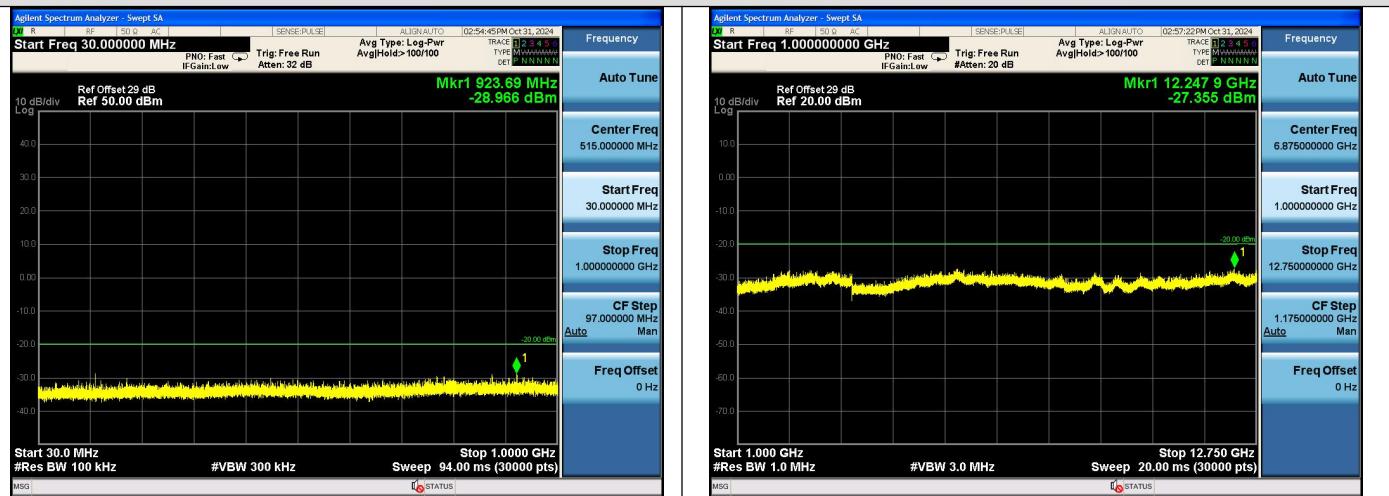
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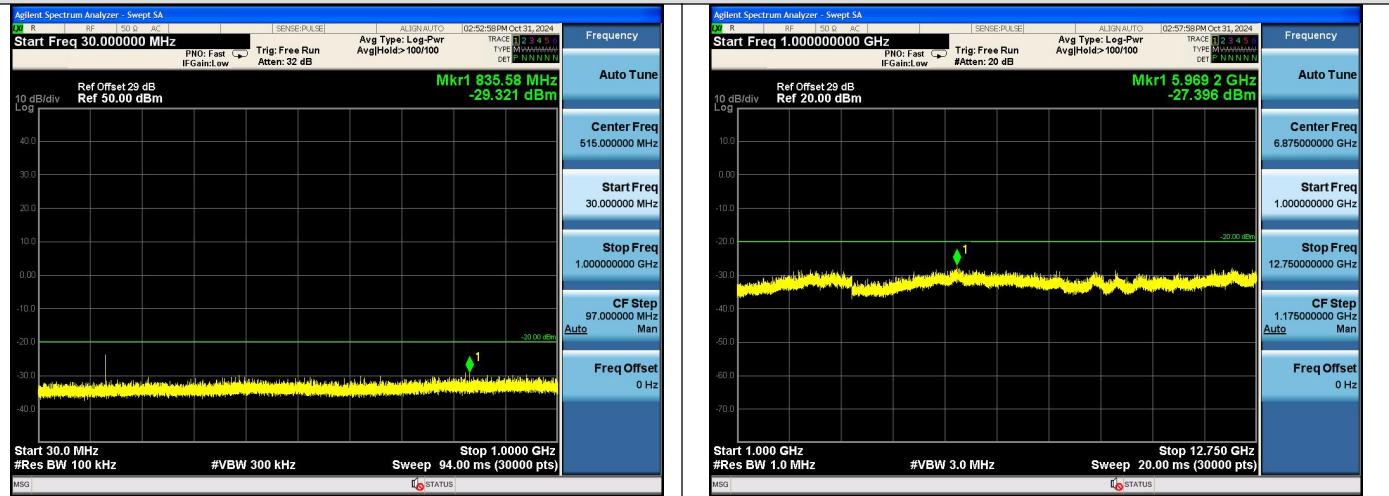
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Measurement Power Supply: AC 120V

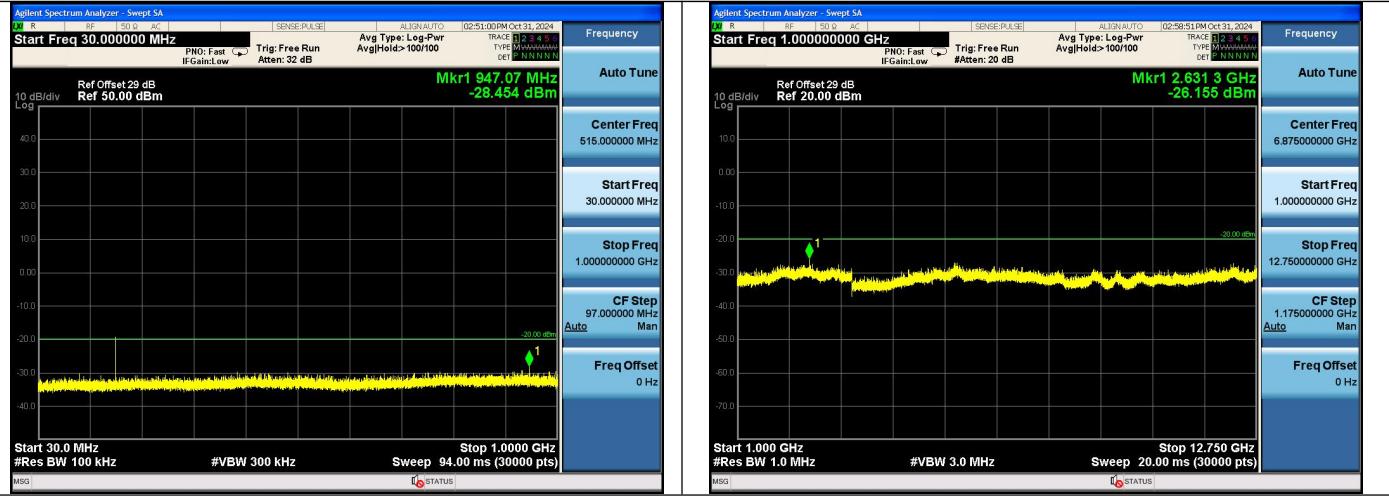
12.5kHz, Analog modulation, Assigned Frequency:136.025MHz-50W



12.5kHz, Analog modulation, Assigned Frequency:155.7525MHz-50W



12.5kHz, Analog modulation, Assigned Frequency:173.975MHz-50W



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