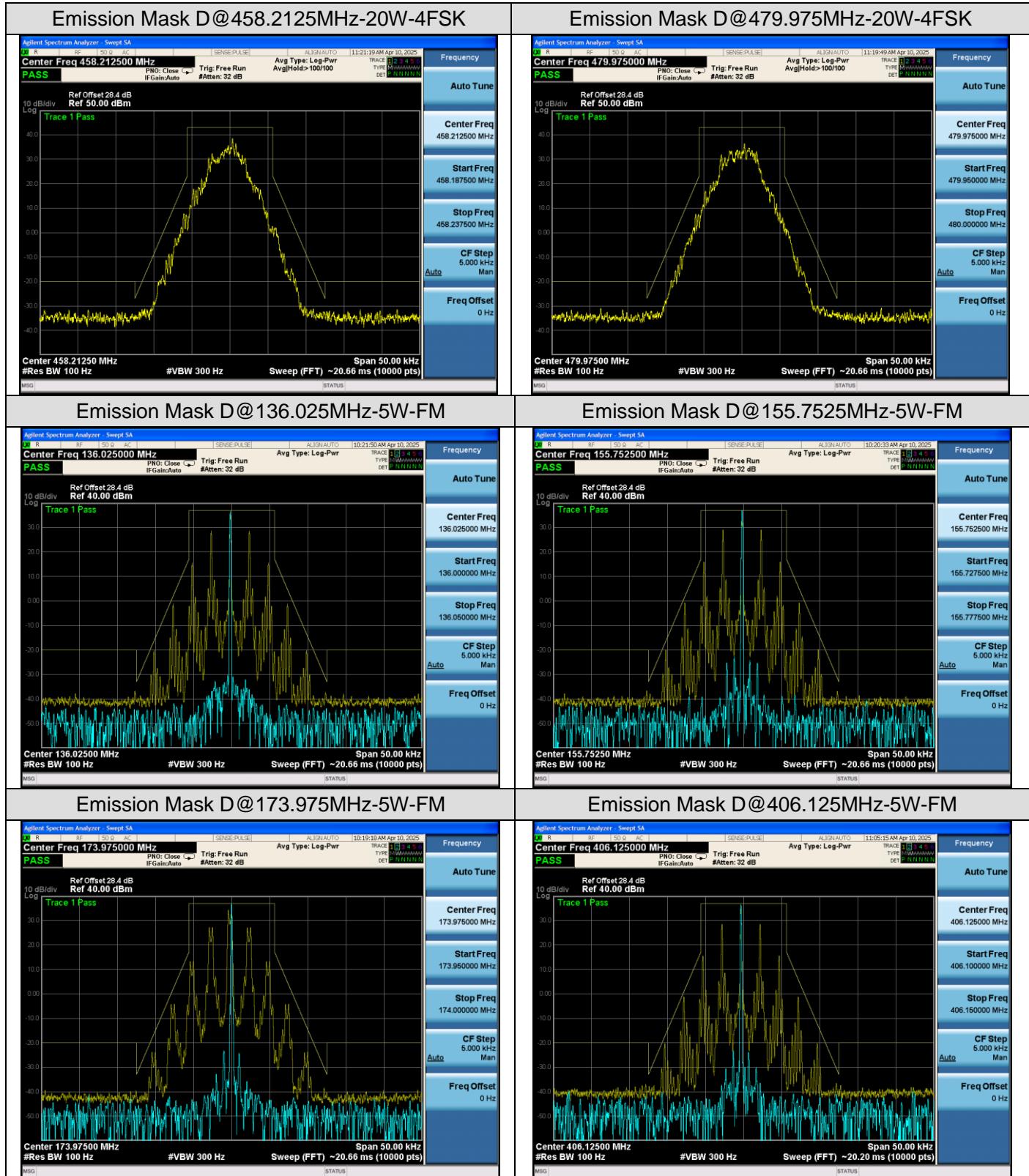


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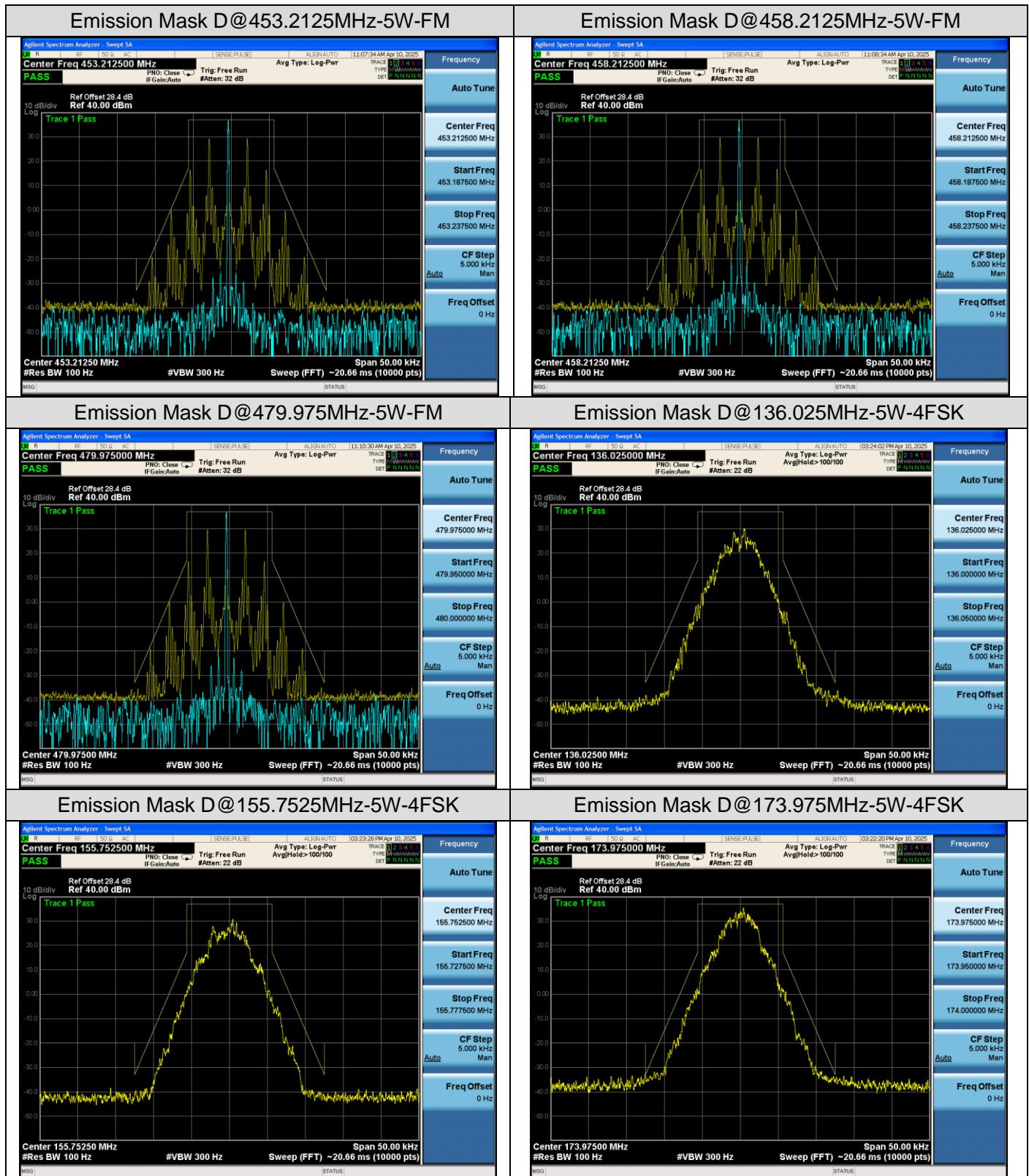


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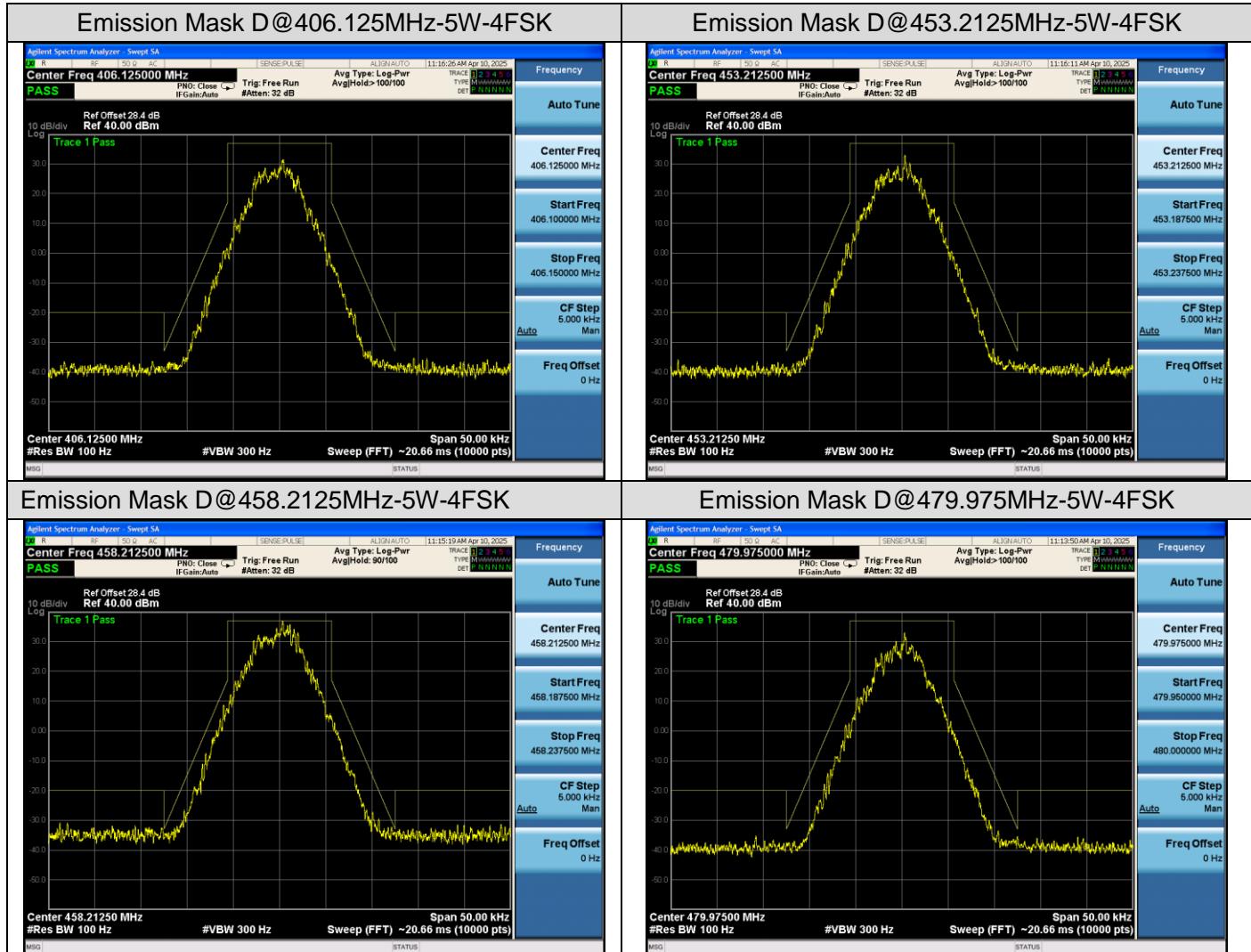


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## 9. Modulation Characteristics

### 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 Procedure

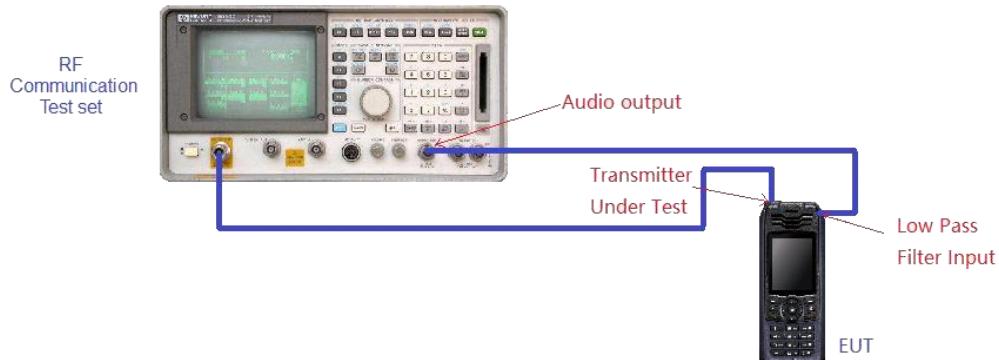
#### ● Modulation Limit

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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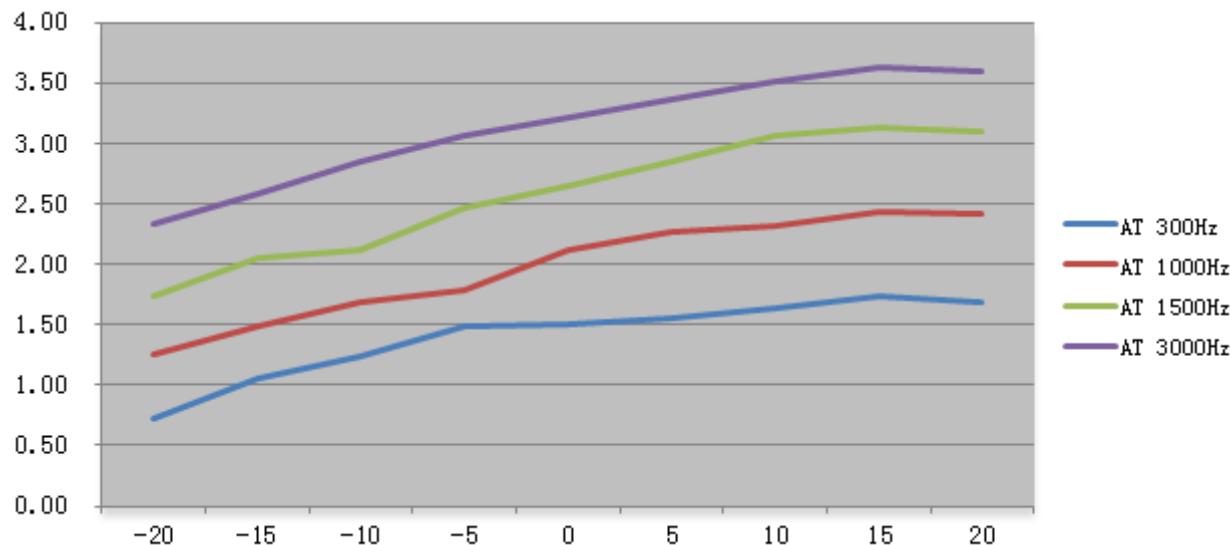
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## 9.4 Measurement Result

### A. Modulation Limit:

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz-20W				
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	0.73	1.25	1.74	2.34
-15	1.05	1.49	2.05	2.58
-10	1.23	1.68	2.11	2.85
-5	1.48	1.79	2.46	3.07
0	1.51	2.12	2.64	3.21
+5	1.55	2.26	2.85	3.36
+10	1.63	2.31	3.06	3.51
+15	1.74	2.43	3.13	3.63
+20	1.69	2.41	3.09	3.59



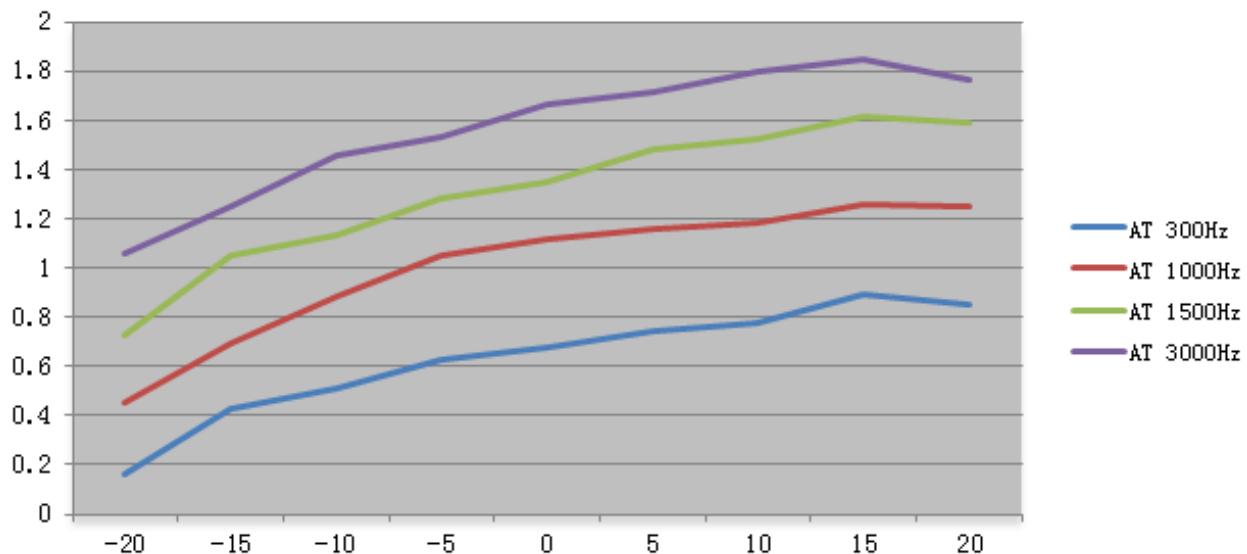
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12.5kHz, Analog modulation, Assigned Frequency:406.125MHz-20W				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.16	0.45	0.73	1.06
-15	0.43	0.69	1.05	1.25
-10	0.51	0.88	1.13	1.46
-5	0.63	1.05	1.28	1.53
0	0.68	1.12	1.35	1.66
+5	0.74	1.16	1.48	1.71
+10	0.78	1.18	1.52	1.8
+15	0.89	1.26	1.61	1.85
+20	0.85	1.25	1.59	1.76



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

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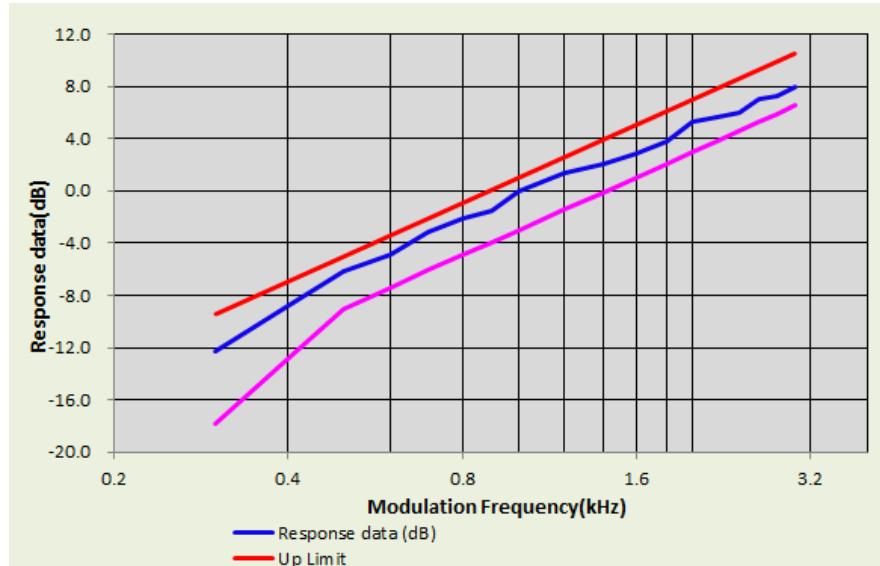
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**B. Audio Frequency Response:**

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz-20W		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.22	-12.33
400	0.33	-8.81
500	0.45	-6.12
600	0.52	-4.86
700	0.63	-3.19
800	0.71	-2.16
900	0.76	-1.56
1000	<b>0.91</b>	0.00
1200	1.06	1.33
1400	1.15	2.03
1600	1.26	2.83
1800	1.41	3.80
2000	1.68	5.33
2400	1.74	5.63
2500	1.82	6.02
2800	2.05	7.05
3000	2.11	7.30



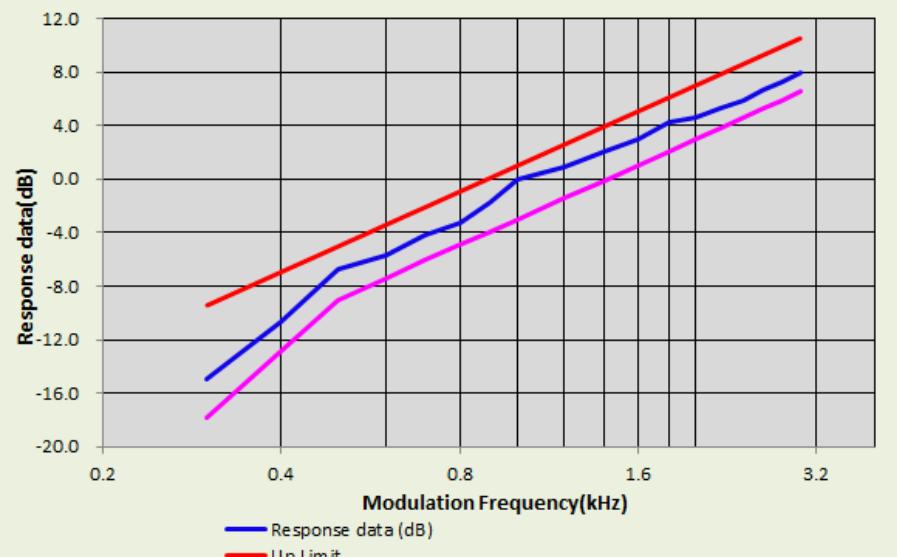
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12.5kHz, Analog modulation, Assigned Frequency:406.125MHz- 5W		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.16	-14.91
400	0.26	-10.69
500	0.41	-6.73
600	0.46	-5.73
700	0.55	-4.18
800	0.61	-3.28
900	0.73	-1.72
1000	<b>0.89</b>	0.00
1200	0.99	0.92
1400	1.12	2.00
1600	1.25	2.95
1800	1.46	4.30
2000	1.51	4.59
2400	1.63	5.26
2500	1.74	5.82
2800	1.91	6.63
3000	2.05	7.25



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.

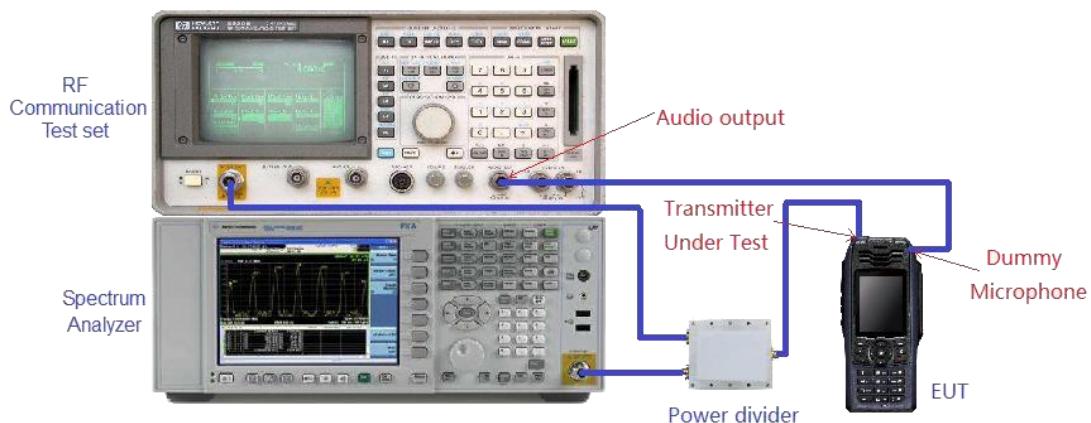
### 10.2 Measurement Procedure

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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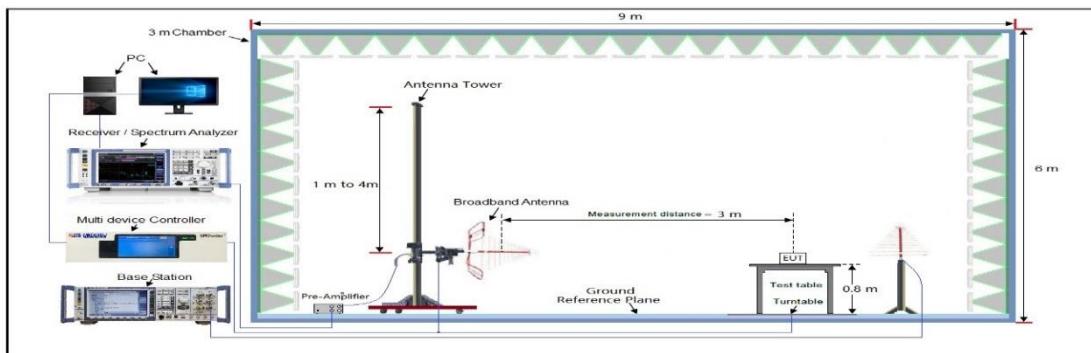
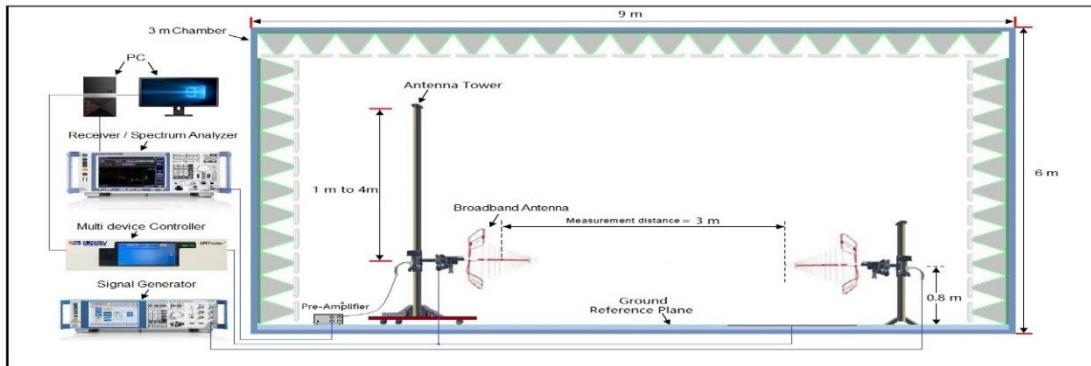
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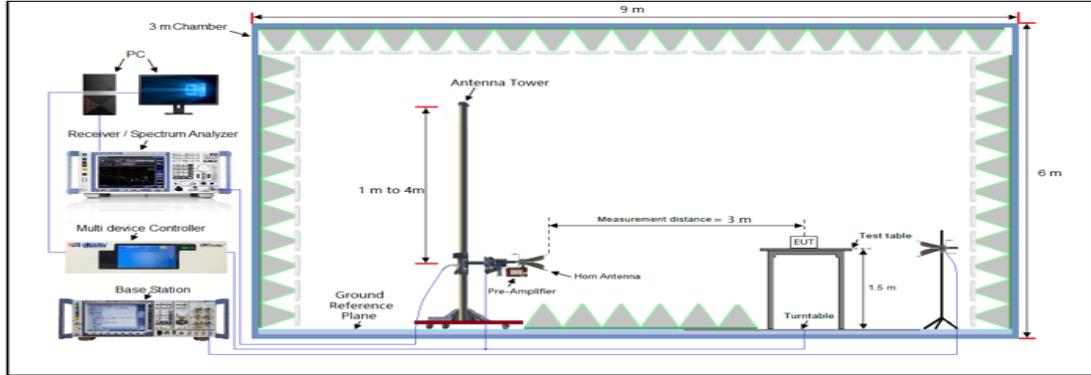
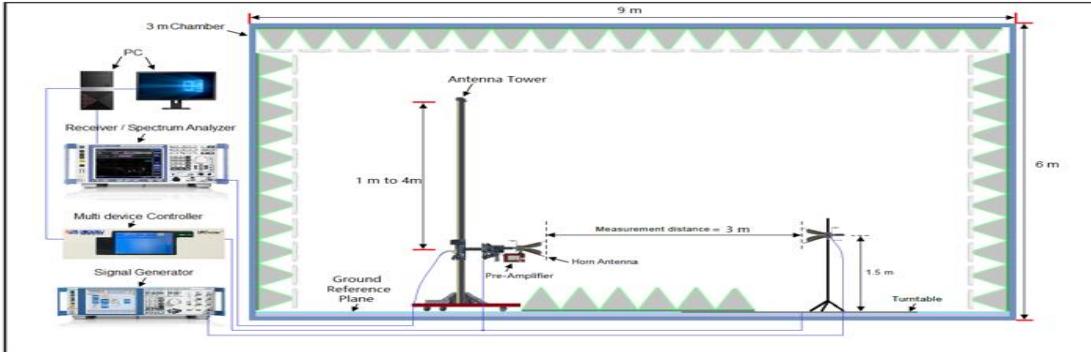
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Effective Radiated Power:

**Radiated Below 1GHz**



**Radiated Above 1 GHz**



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#### 10.4 Measurement Result

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 43.01dBm(20W)
Analog +Voice	12.5 kHz	Bottom(136.025MHz)	42.47
		Middle(155.7525MHz)	42.90
		Top (173.975MHz)	42.45
		Bottom(406.125MHz)	42.49
		Middle(453.2125MHz)	42.91
		Middle(458.2125MHz)	42.95
		Top (479.975MHz)	42.51
Digital (Voice+Data)	12.5 kHz	Bottom(136.025MHz)	42.47
		Middle(155.7525MHz)	<b>42.97</b>
		Top (173.975MHz)	42.41
		Bottom(406.125MHz)	42.49
		Middle(453.2125MHz)	42.89
		Middle(458.2125MHz)	42.95
		Top (479.975MHz)	42.46

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 36.99dBm(5W)
Analog +Vioce	12.5 kHz	Bottom(136.025MHz)	36.66
		Middle(155.7525MHz)	36.89
		Top (173.975MHz)	36.65
		Bottom(406.125MHz)	36.90
		Middle(453.2125MHz)	36.90
		Middle(458.2125MHz)	<b>36.93</b>
		Top (479.975MHz)	36.90
Digital (Voice+Data)	12.5 kHz	Bottom(136.025MHz)	36.56
		Middle(155.7525MHz)	36.85
		Top (173.975MHz)	36.60
		Bottom(406.125MHz)	36.88
		Middle(453.2125MHz)	36.83
		Middle(458.2125MHz)	36.89
		Top (479.975MHz)	36.84

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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 +Vioce	136.0250	111.52	V	36.29	0.62	6.5	42.17	43.01
	136.0250	111.44	H	36.21	0.62	6.5	42.09	43.01
	155.7525	111.95	V	36.72	0.62	6.5	42.60	43.01
	155.7525	111.90	H	36.67	0.62	6.5	42.55	43.01
	173.9750	111.53	V	36.30	0.62	6.5	42.18	43.01
	173.9750	111.46	H	36.23	0.62	6.5	42.11	43.01
Digital (Voice+Data)	136.0250	111.45	V	36.22	0.62	6.5	42.10	43.01
	136.0250	111.43	H	36.20	0.62	6.5	42.08	43.01
	155.7525	112.00	V	36.77	0.62	6.5	42.65	43.01
	155.7525	111.94	H	36.71	0.62	6.5	42.59	43.01
	173.9750	111.47	V	36.24	0.62	6.5	42.12	43.01
	173.9750	111.44	H	36.21	0.62	6.5	42.09	43.01

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 +Vioce	136.0250	105.67	V	30.44	0.62	6.5	36.32	36.99
	136.0250	105.64	H	30.41	0.62	6.5	36.29	36.99
	155.7525	105.88	V	30.65	0.62	6.5	36.53	36.99
	155.7525	105.83	H	30.60	0.62	6.5	36.48	36.99
	173.9750	105.68	V	30.45	0.62	6.5	36.33	36.99
	173.9750	105.60	H	30.37	0.62	6.5	36.25	36.99
Digital (Voice+Data)	136.0250	105.61	V	30.38	0.62	6.5	36.26	36.99
	136.0250	105.54	H	30.31	0.62	6.5	36.19	36.99
	155.7525	105.89	V	30.66	0.62	6.5	36.54	36.99
	155.7525	105.84	H	30.61	0.62	6.5	36.49	36.99
	173.9750	105.65	V	30.42	0.62	6.5	36.30	36.99
	173.9750	105.59	H	30.36	0.62	6.5	36.24	36.99

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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 +Vioce	406.1250	111.38	V	36.15	0.85	6.9	42.20	43.01
	406.1250	111.29	H	36.06	0.85	6.9	42.11	43.01
	453.2125	111.71	V	36.48	0.85	6.9	42.53	43.01
	453.2125	111.66	H	36.43	0.85	6.9	42.48	43.01
	458.2125	111.83	V	36.60	0.85	6.9	42.65	43.01
	458.2125	111.76	H	36.53	0.85	6.9	42.58	43.01
	479.9750	111.49	V	36.26	0.85	6.9	42.31	43.01
	479.9750	111.47	H	36.24	0.85	6.9	42.29	43.01
Digital (Voice+Data)	406.1250	111.38	V	36.15	0.85	6.9	42.20	43.01
	406.1250	111.33	H	36.10	0.85	6.9	42.15	43.01
	453.2125	111.73	V	36.50	0.85	6.9	42.55	43.01
	453.2125	111.67	H	36.44	0.85	6.9	42.49	43.01
	458.2125	111.81	V	36.58	0.85	6.9	42.63	43.01
	458.2125	111.76	H	36.53	0.85	6.9	42.58	43.01
	479.9750	111.35	V	36.12	0.85	6.9	42.17	43.01
	479.9750	111.29	H	36.06	0.85	6.9	42.11	43.01

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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 +Vioce	406.1250	105.78	V	30.55	0.85	6.9	36.60	36.99
	406.1250	105.73	H	30.50	0.85	6.9	36.55	36.99
	453.2125	105.69	V	30.46	0.85	6.9	36.51	36.99
	453.2125	105.67	H	30.44	0.85	6.9	36.49	36.99
	458.2125	105.81	V	30.58	0.85	6.9	36.63	36.99
	458.2125	105.74	H	30.51	0.85	6.9	36.56	36.99
	479.9750	105.71	V	30.48	0.85	6.9	36.53	36.99
	479.9750	105.67	H	30.44	0.85	6.9	36.49	36.99
Digital (Voice+Data)	406.1250	105.69	V	30.46	0.85	6.9	36.51	36.99
	406.1250	105.66	H	30.43	0.85	6.9	36.48	36.99
	453.2125	105.71	V	30.48	0.85	6.9	36.53	36.99
	453.2125	105.62	H	30.39	0.85	6.9	36.44	36.99
	458.2125	105.79	V	30.56	0.85	6.9	36.61	36.99
	458.2125	105.75	H	30.52	0.85	6.9	36.57	36.99
	479.9750	105.74	V	30.51	0.85	6.9	36.56	36.99
	479.9750	105.67	H	30.44	0.85	6.9	36.49	36.99

**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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## 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

$50 + 10 \log (P)$  (Pwatts)

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,

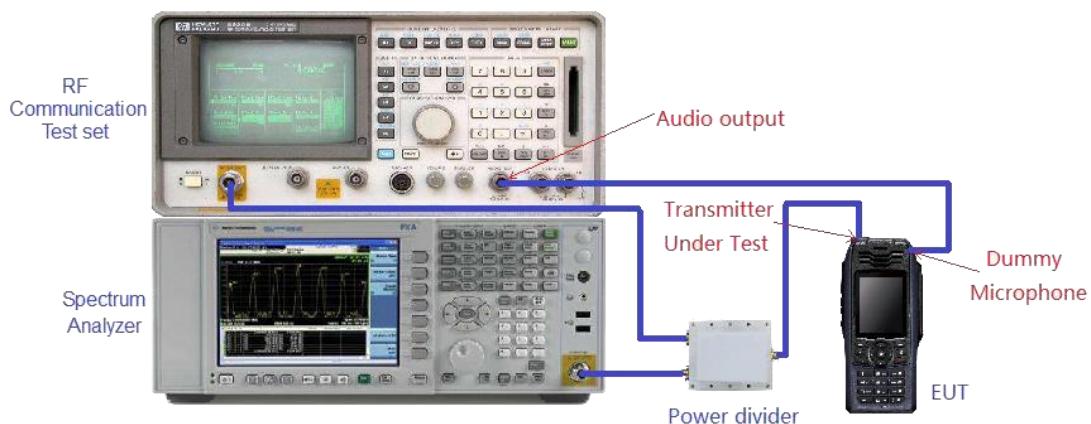
In this application, the EL is  $P$  ( dBm )

Limit (dBm) =  $P$  ( dBm ) -  $50 - 10 \log (P)$  (Pwatts) = -20dBm

### 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



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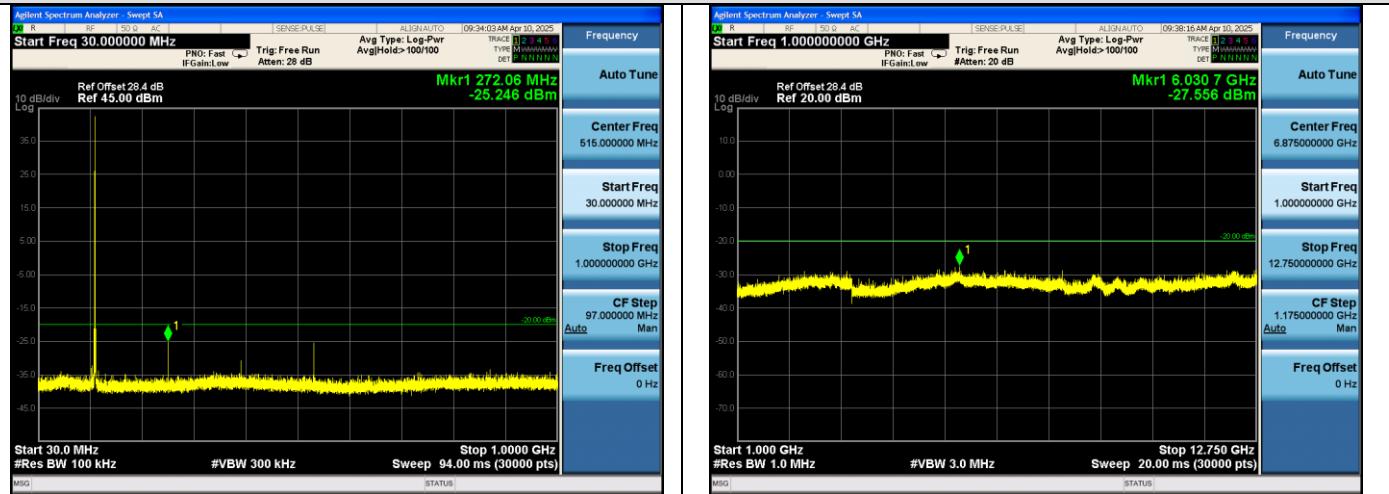
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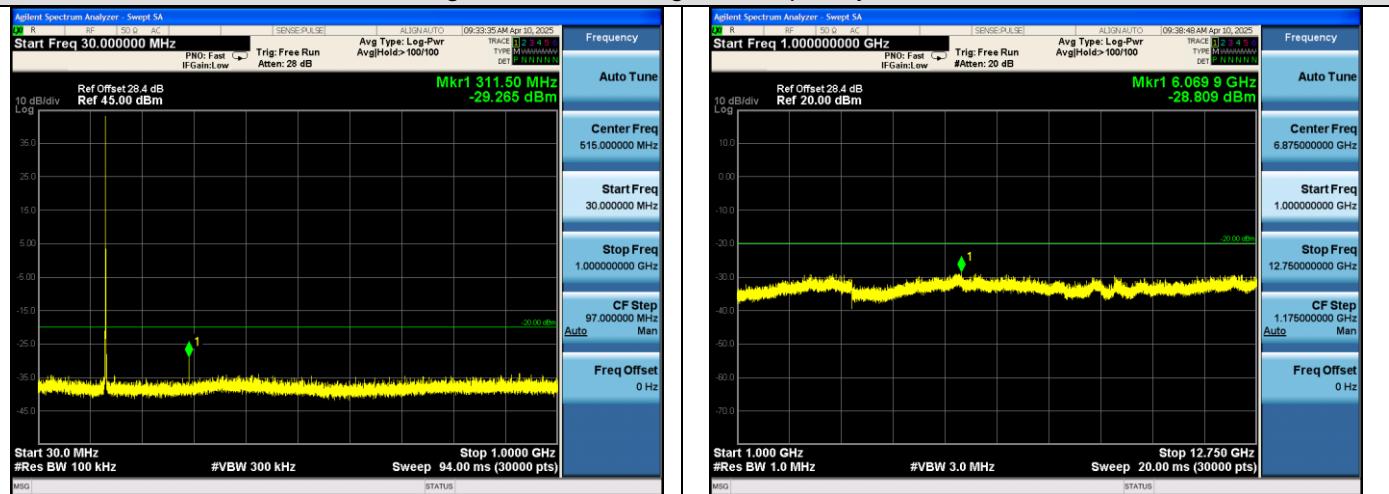
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## 11.4 Measurement Result

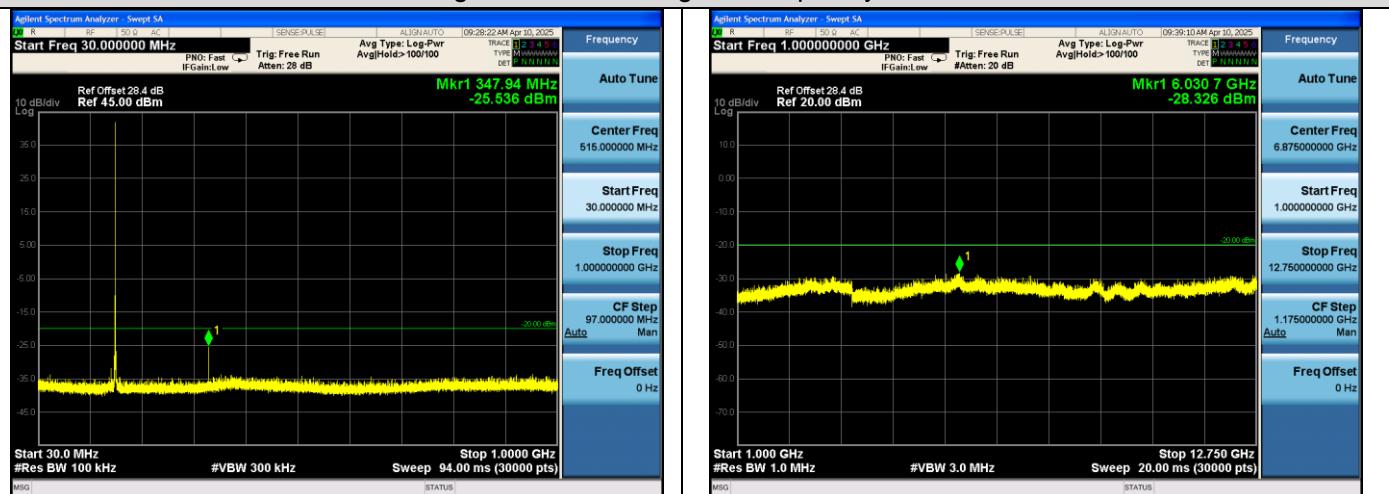
12.5kHz, Analog modulation, Assigned Frequency:136.025MHz, 20W



12.5kHz, Analog modulation, Assigned Frequency:155.7525MHz, 20W



12.5kHz, Analog modulation, Assigned Frequency:173.975MHz, 20W

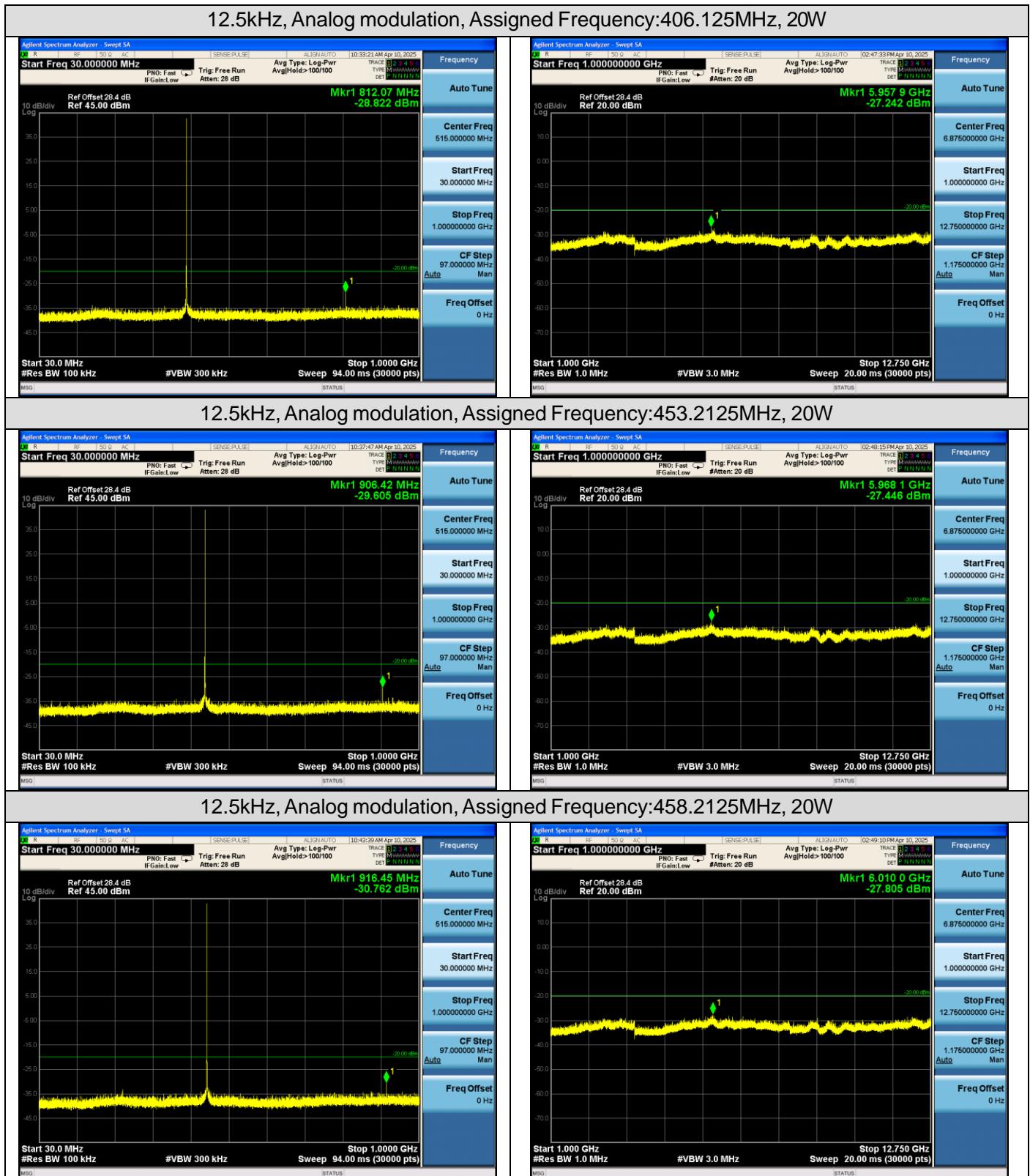


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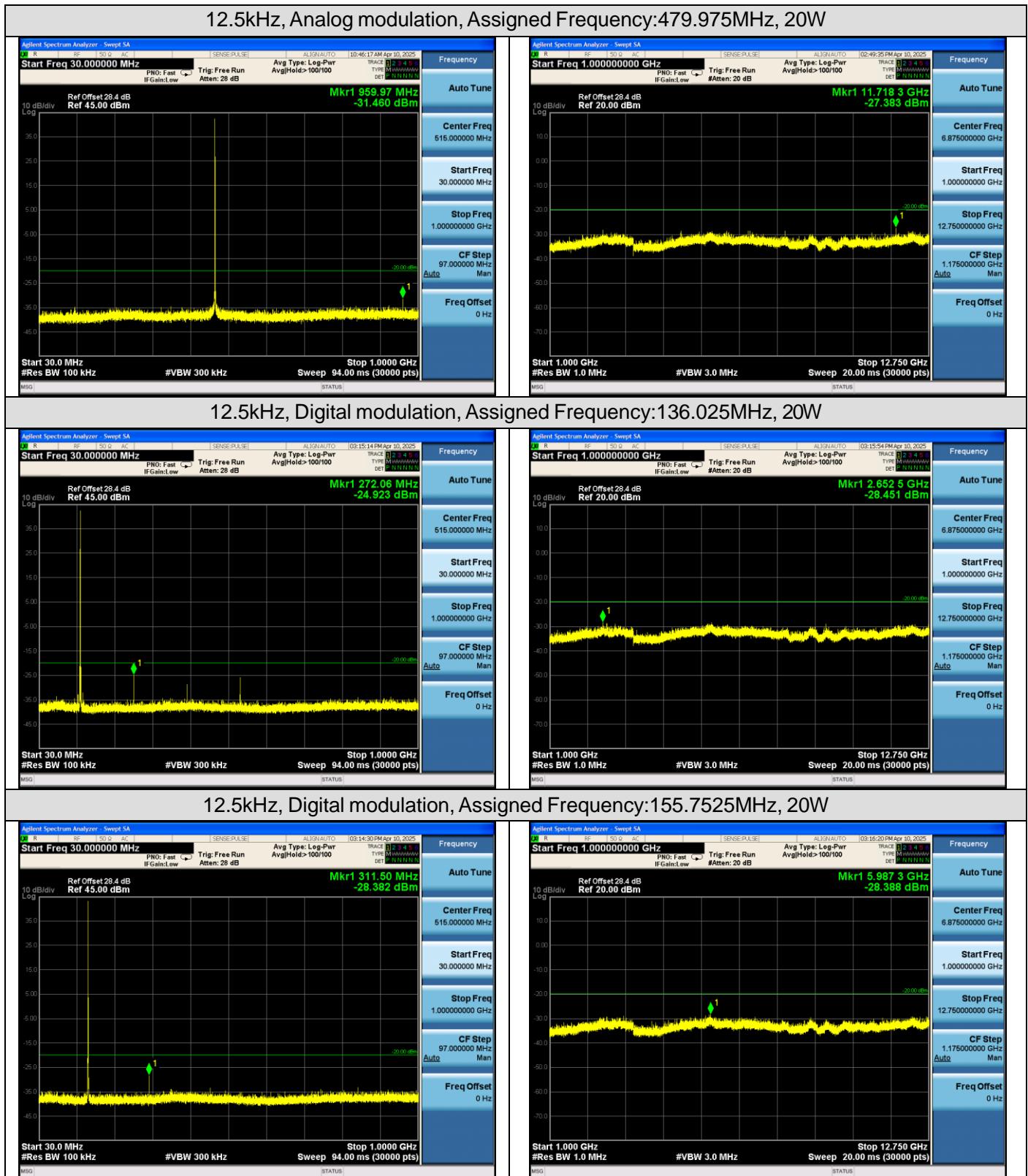


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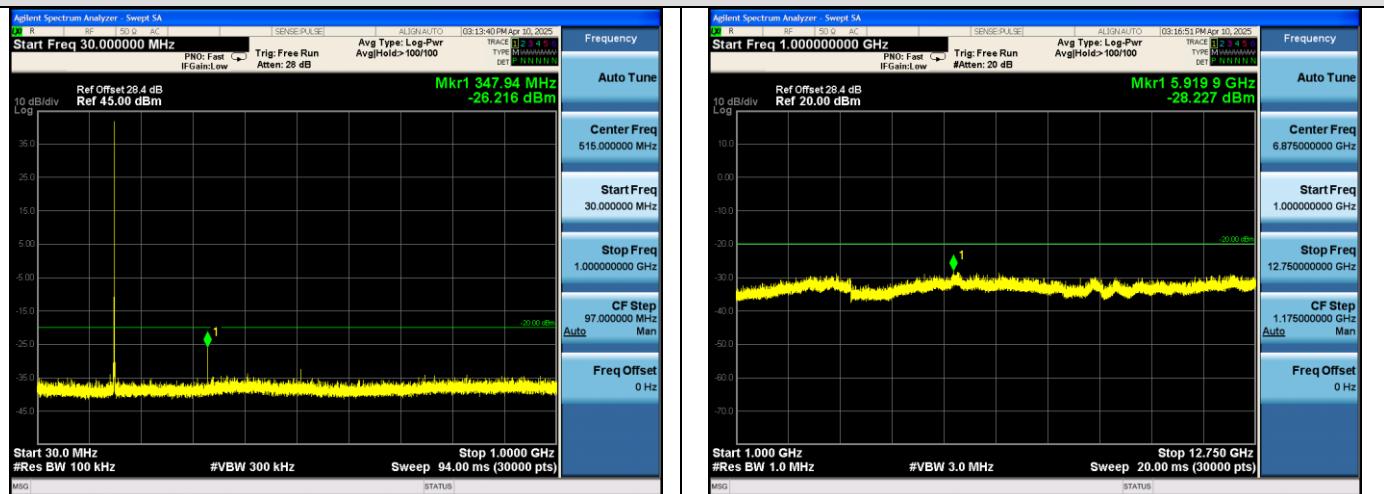
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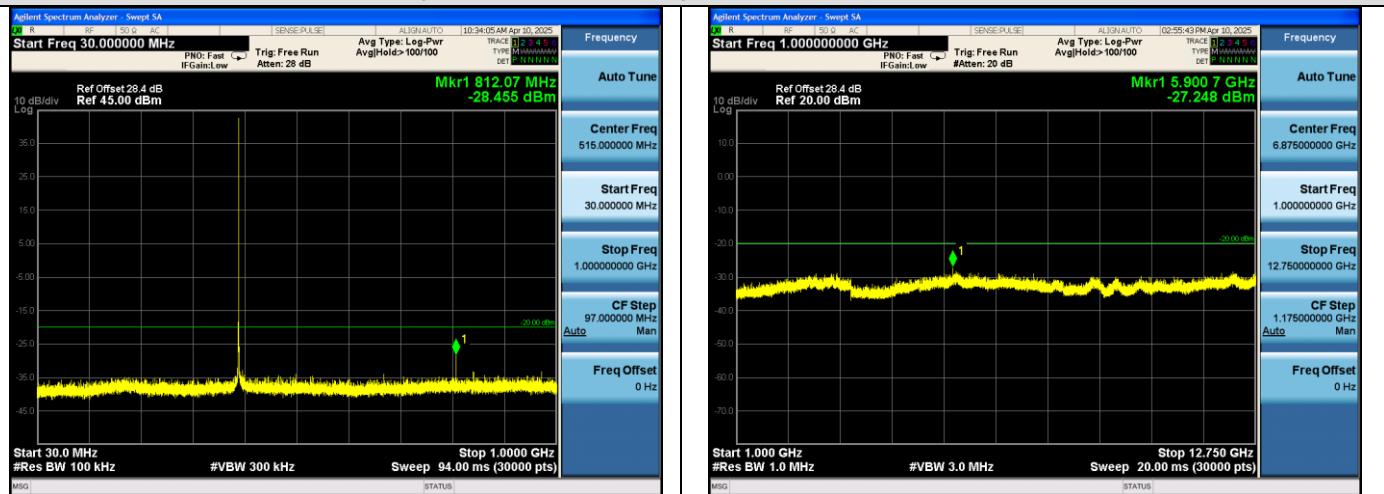
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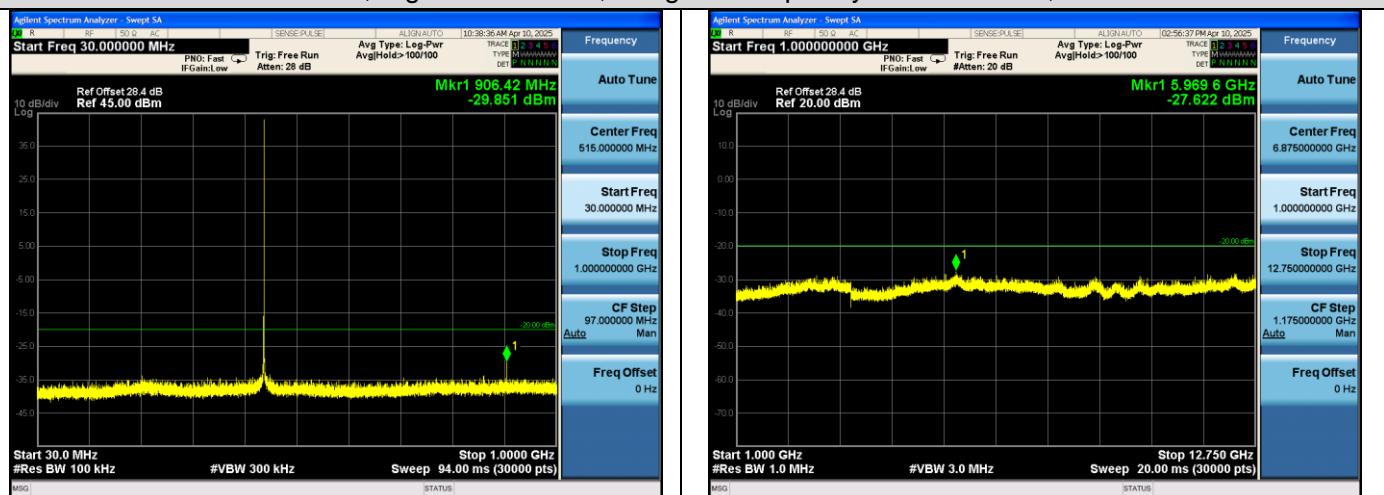
## 12.5kHz, Digital modulation, Assigned Frequency:173.975MHz, 20W



## 12.5kHz, Digital modulation, Assigned Frequency:406.125MHz,20W



## 12.5kHz, Digital modulation, Assigned Frequency:453.2125MHz, 20W

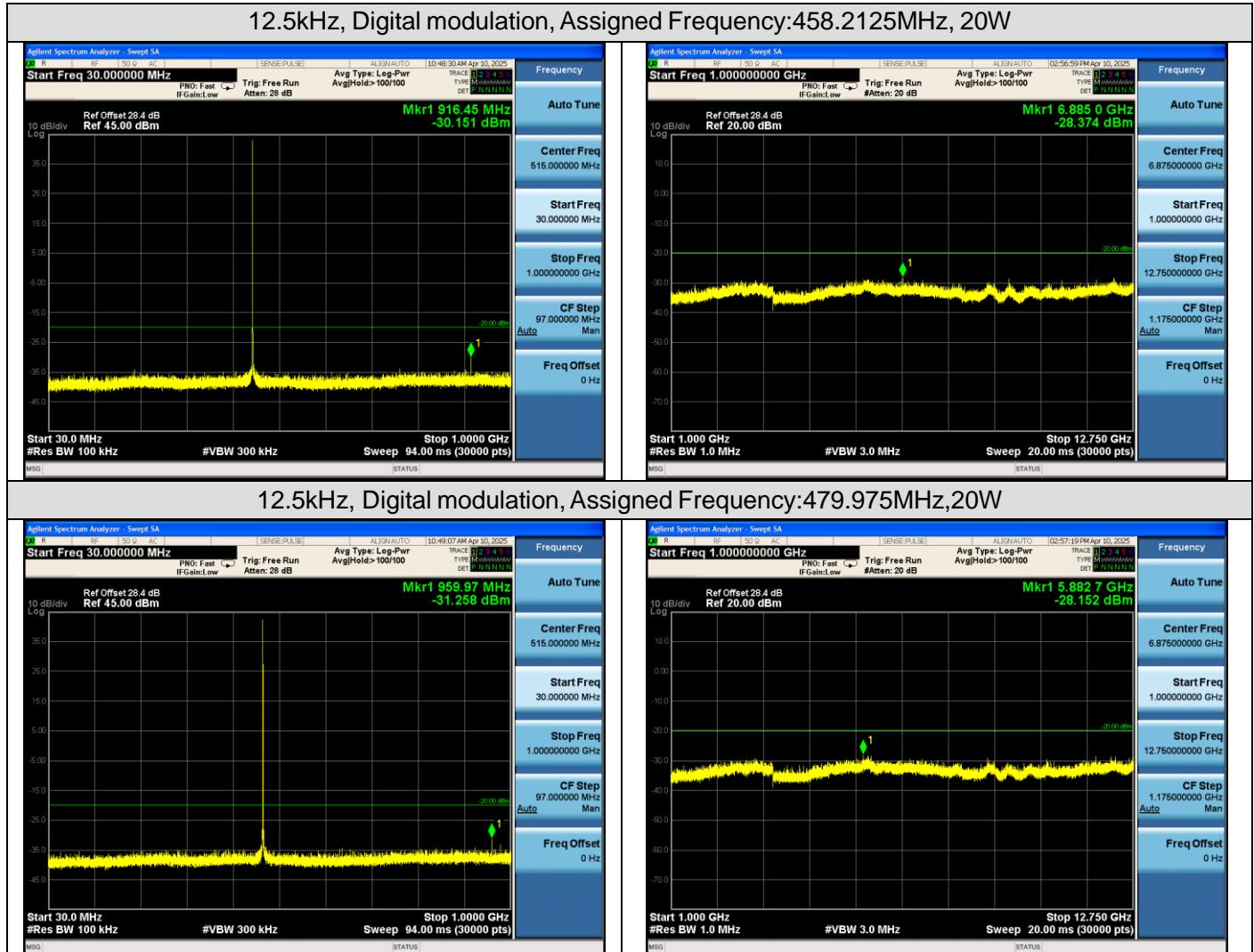


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