

FCC Test Report

Report No.: AGC02294260101FR01

FCC ID : 2AJGM-DM36

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : DMR Digital Radio

BRAND NAME : BAOFENG, POFUNG, ALERVITES

MODEL NAME : DM36, DM36UV, DM36PRO, DM36 PLUS, DM36Ultra,
MD36UV, AT36D, GT36D

APPLICANT : PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP
COMPANY LIMITED

DATE OF ISSUE : Mar. 24, 2026

STANDARD(S) : FCC Part 90 Subpart I

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 24, 2026	Valid	Initial Release

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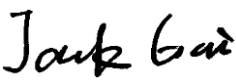
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1. General Information

Applicant	PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED
Address	Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road, Kowloon, Hong Kong
Manufacturer	PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED
Address	Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road, Kowloon, Hong Kong
Factory	PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED
Address	Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road, Kowloon, Hong Kong
Product Designation	DMR Digital Radio
Brand Name	BAOFENG, POFUNG, ALERVITES
Test Model	DM36
Series Model(s)	DM36UV, DM36PRO, DM36 PLUS, DM36Ultra, MD36UV, AT36D, GT36D
Difference Description	Except for the model name and brand name, everything else is same.
Date of receipt of test item	Jan. 06, 2026
Date of Test	Jan. 06, 2026~ Mar. 13, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-PMR-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Bibo Zhang (Project Engineer)	Mar. 24, 2026
Reviewed By		
	Jack Gui (Reviewer)	Mar. 24, 2026
Approved By		
	Angela Li (Authorized Officer)	Mar. 24, 2026

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2. Product Information

2.1 Product Technical Description

Communication Type	Voice / Data (Voice /Tone only)	
Operation Frequency Range	136MHz to 174MHz, 400MHz to 470MHz	
Hardware Version	DM36-C7000-V2.1	
Software Version	DM36_NRF_049	
Modulation Type	Analog Voice:	FM
	Digital (Voice+ Data):	4FSK
Digital Type	DMR	
Channel Separation	Analog Voice:	12.5 kHz
	Digital (Voice+ Data):	12.5 kHz
Support Data Rate	9600bps	
Emission Designator	Analog Voice:	9K93F3E for UHF band 9K93F3E for VHF band
	Digital (Voice+ Data):	7K62F1D/7K62F1W for UHF band 7K43F1D/7K43F1W for VHF band
Rated Output Power	VHF&UHF:5W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Maximum Transmitter Power	UHF Band: 36.18dBm(Analog); 36.19dBm(Digital)	
	VHF Band: 36.41dBm(Analog); 36.45dBm(Digital)	
Antenna Designation	Detachable Antenna	
Antenna Gain	1.5dBi	
Frequency Tolerance	1.087ppm	
Power Supply	DC 7.4V 2500mAh by battery or DC 5V from adapter	

Note:

The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.

This equipment is capable of supporting a minimum data rate of 4800 bits per second per 6.25 kHz of channel bandwidth. DMR interphone's bandwidth is 12.5 kHz, and it has a double time slot, one is the speech time slot, one is the data time slot, just language sequence is satisfied with 4800 bps/6.25 kHz BW.

The actual working frequency band of the device is UHF: 400-470MHz. According to the frequency division requirements of KDB634817 and the federal frequency allocation requirements, the working frequency band that the device needs to meet is UHF: 406.1-470MHz.

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2.2 Test Frequency List

Operation mode	Channel Separation	Operation Frequency Range	Test channel	Test Frequency
Analog/ Digital	12.5 kHz	400-470MHz	Bottom	406.125 MHz
	12.5 kHz	400-470MHz	Middle	453.2125 MHz
	12.5 kHz	400-470MHz	Middle	458.2125 MHz
	12.5 kHz	400-470MHz	Top	469.975 MHz
Analog/ Digital	12.5 kHz	136-174MHz	Bottom	136.025 MHz
	12.5 kHz	136-174MHz	Middle	155.7525 MHz
	12.5 kHz	136-174MHz	Top	173.975 MHz

Note:

In section KDB 634817 D01 Sections II) (f) (1) and (2):

Test at least one frequency in each band for each rule part applied under and ensure the device is capable of operating on the frequency under each rule part. This requirement may result in testing on multiple frequencies. Testing on one frequency may be acceptable if multiple listed bands for a rule part with a continuous frequency range are split to remove a conflict with other rules and the technical requirements in the split bands are the same. Additional requirements for RF exposure may apply.

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2AJGM-DM36**, filing to comply with Part 2, Part 90 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 90	Private Land Mobile Radio Services
2	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
3	ANSI TIA-102.CAAA-E	Project 25 Digital C4FM/CQPSK Transceiver Measurement Methods
4	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01
7	KDB 579009 D03	KDB 579009 D03 Applications Part 90 Refarming Bands v01
8	KDB 634817 D01	KDB 634817 D01 Freq Range Listing for Grants v04r01

2.5 Calculation of Emission Indicators

FCC Rules and Regulations Part 2.202: Necessary Bandwidth and Emission Bandwidth

For FM Mode (ChannelSpacing: 12.5kHz)

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$$

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

For Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1W

The 99% energy rule was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz.

F1D and F1W portion of the designator indicates digital information.

Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1W.

2.6 Special Accessories

Not available for this EUT intended for grant.

2.7 Equipment Modifications

Not available for this EUT intended for grant.

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions	Extreme Conditions
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 7.4V	LV DC 6.29V/HV DC 8.51V

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test Items	Measurement Uncertainty
Frequency stability	$\pm 0.5\%$
Transmitter power conducted	$\pm 0.8\text{dB}$
Transmitter power Radiated	$\pm 1.3\text{dB}$
Conducted spurious emission 9kHz-40 GHz	$\pm 2.7\text{dB}$
Conducted Emission	$\pm 3.2\text{ dB}$
Radiated Emission below 1GHz	$\pm 3.9\text{ dB}$
Radiated Emission above 1GHz	$\pm 4.8\text{ dB}$
Occupied Channel Bandwidth	$\pm 2\%$
FM deviation	$\pm 2\%$
Audio level	$\pm 0.98\text{dB}$
Low Pass Filter Response	$\pm 0.65\text{dB}$
Modulation Limiting	0.42 %
Transient Frequency Behavior	6.8 %

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E086	Spectrum Analyzer	KEYSIGHT	N9020A	MY53300860	2025-05-08	2026-05-07
☒	AGC-EM-E002	Wireless Connectivity Tester	HP	8920B	US35010161	2025-05-08	2026-05-07
☒	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☒	AGC-EM-A007	30dB Attenuator	Weinachel	58-30-33	ML030	2025-05-31	2027-05-30
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☒	AGC-ER-A004	Power Splitter	Agilent	11667B	N/A	2025-05-08	2027-05-07

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2025-01-14	2026-01-13
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2026-01-13	2027-01-12
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2025-01-15	2027-01-14
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☐	AGC-EM-E021	Pre-amplifier	MITEQ	AM-4A-000115	1465421	2024-05-28	2026-05-27
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2025-05-08	2026-05-07
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-1W	N/A	2025-05-16	2027-05-15
☒	AGC-EM-A089	VHF Filter	Microwave	N26460M1	498703	2025-05-21	2026-05-20
☒	AGC-EM-A088	UHF Filter	Microwave	N25155M2	498705	2025-05-21	2026-05-20

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S011	RSE Test System	Tonscend	TS ⁺ Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

- ☐ Test Accessories Come From The Laboratory
☒ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Battery	BC-36UV	PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED	DC 7.4V 2500mAh	--
2	Adapter	A318-050100W-US2	Jiangxi JianAohai Technoogy Co.,Ltd	Input: 100-240V 50-60Hz,0.2A Output: 5V=1.0A	--

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4.5 Summary of Test Results

Item	FCC Rules	Description Of Test	Result
1	47 CFR FCC PART 90	Antenna Equipment	Pass
2	§90.205& 2.1046	Maximum Transmitter Power	Pass
3	§90.207& 2.1047	Modulation Characteristic	Pass
4	§2.1047	Audio Low Pass Filter Response	Pass
5	§90.209& 2.1049	26dB Emission Bandwidth and 99% Occupied Bandwidth	Pass
6	§90.210& 2.1049	Emission Mask	Pass
7	§90.213& 2.1055	Frequency Tolerance	Pass
8	§90.214	Transmitter Frequency Behavior	Pass
9	§90.210& 2.1051	Spurious Emission on Antenna Port	Pass
10	§90.210& 2.1053	Spurious Radiated Emission	Pass

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5. Description of Test Modes

The EUT (**Two-way radio**) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

No.	Test Mode Description	Channel Separation
1	TX Bottom channel-UHF	12.5 kHz
2	TX Middle channel-UHF	12.5 kHz
3	TX Middle channel-UHF	12.5 kHz
4	TX Top channel-UHF	12.5 kHz
5	TX Bottom channel-VHF	12.5 kHz
6	TX Middle channel-VHF	12.5 kHz
7	TX Top channel-VHF	12.5 kHz

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
5. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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6. Frequency Stability

6.1 Provisions Applicable

- According to FCC §2.1055, §90.213, the frequency stability shall be measured with variation of ambient temperature from -30°C to $+50^{\circ}\text{C}$ centigrade.
- According to FCC Part 2 Section 2.1055(d)(2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.
- According to FCC Part 90 Section 90.213, the frequency tolerance must be maintained within 0.00025% for 12.5 kHz channel separation and 0.0001% for 6.25 kHz channel separation.

6.2 Measurement Procedure

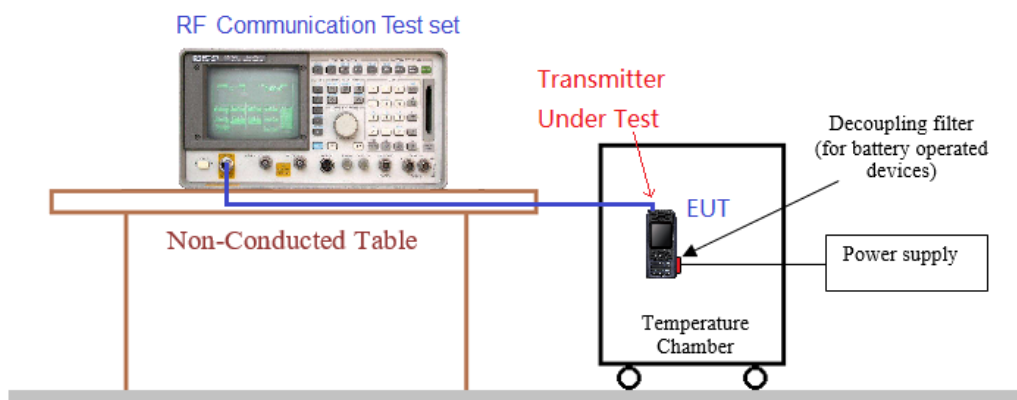
6.2.1 Frequency stability versus environmental temperature

- Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
- Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1kHz and Video Resolution Bandwidth to 1kHz and Frequency Span to 50kHz. Record this frequency as reference frequency.
- Set the temperature of chamber to 50°C . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- Repeat step 2 with a 10°C decreased per stage until the lowest temperature -30°C is measured, record all measured frequencies on each temperature step.

6.2.2 Frequency stability versus input voltage

- Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15°C to 25°C . Otherwise, an environment chamber set for a temperature of 20°C shall be used. The EUT shall be powered by DC 7.4V.
- Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 kHz and Video Resolution Bandwidth to 1kHz. Record this frequency as reference frequency.
- Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

6.3 Measurement Setup



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6.4 Measurement Result

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For UHF							
Test conditions		Frequency error (ppm)				Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)					
		406.125	453.2125	458.2125	469.975		
7.40	-30	0.528	0.614	0.514	0.736	2.5	Pass
	-20	0.806	0.892	0.544	0.519		
	-10	0.525	1.038	1.005	0.383		
	0	0.635	0.601	0.850	0.977		
	10	1.033	0.619	1.058	0.844		
	20	0.973	0.697	0.587	0.831		
	30	0.763	1.087	0.709	0.527		
	40	0.768	0.721	0.845	0.350		
	50	1.085	0.545	0.611	0.753		
8.51	20	1.043	0.861	0.653	0.578		
6.29	20	0.510	0.933	0.872	0.568		

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For VHF						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		136.025	155.7525	173.975		
7.40	-30	0.848	0.888	0.804	2.5	Pass
	-20	0.613	0.758	0.927		
	-10	0.695	0.562	0.616		
	0	0.669	0.850	0.660		
	10	0.944	0.539	0.505		
	20	0.863	0.688	0.535		
	30	0.808	1.042	0.639		
	40	0.906	0.950	0.541		
	50	1.039	0.565	0.817		
8.51	20	0.640	0.708	0.796		
6.29	20	0.816	0.577	0.556		

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7. 26dB Emission Bandwidth and 99% Occupied Bandwidth

7.1 Provisions Applicable

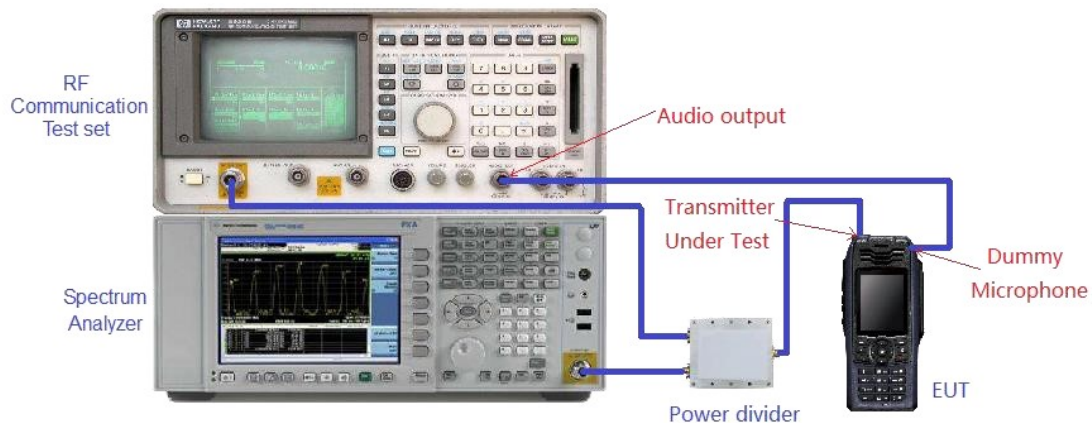
FCC Part 90.209 & FCC Part 2.1049:

The authorized bandwidth shall be 11.25 kHz for 12.5 kHz channel separation and 6 kHz for 6.25 kHz channel separation.

7.2 Measurement Procedure

1. The EUT was modulated by 2.5kHz sine wave audio signal; the level of the audio signal employed is 16dB greater than that necessary to produce 50% of rated system deviation.
2. Rated system deviation is 2.5 kHz for 12.5kHz channel spacing.
3. Spectrum set as follow:
4. Centre frequency = fundamental frequency.
5. Span=50kHz for 12.5kHz channel spacing.
6. RBW=100Hz, VBW=300Hz, Sweep = auto.
7. Detector function = peak, Trace = max hold.
8. Set 99% Occupied Bandwidth and 26dB Occupied Bandwidth.
9. Measure and record the results in the test report.

7.3 Measurement Setup



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7.4 Measurement Result

Measurement Result of UHF-Analog Modulation				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Limits	Result
406.125MHz	9.930	10.16	11.25 kHz	Pass
453.2125MHz	9.931	10.16	11.25 kHz	Pass
458.2125MHz	9.931	10.16	11.25 kHz	Pass
469.975MHz	9.931	10.16	11.25 kHz	Pass

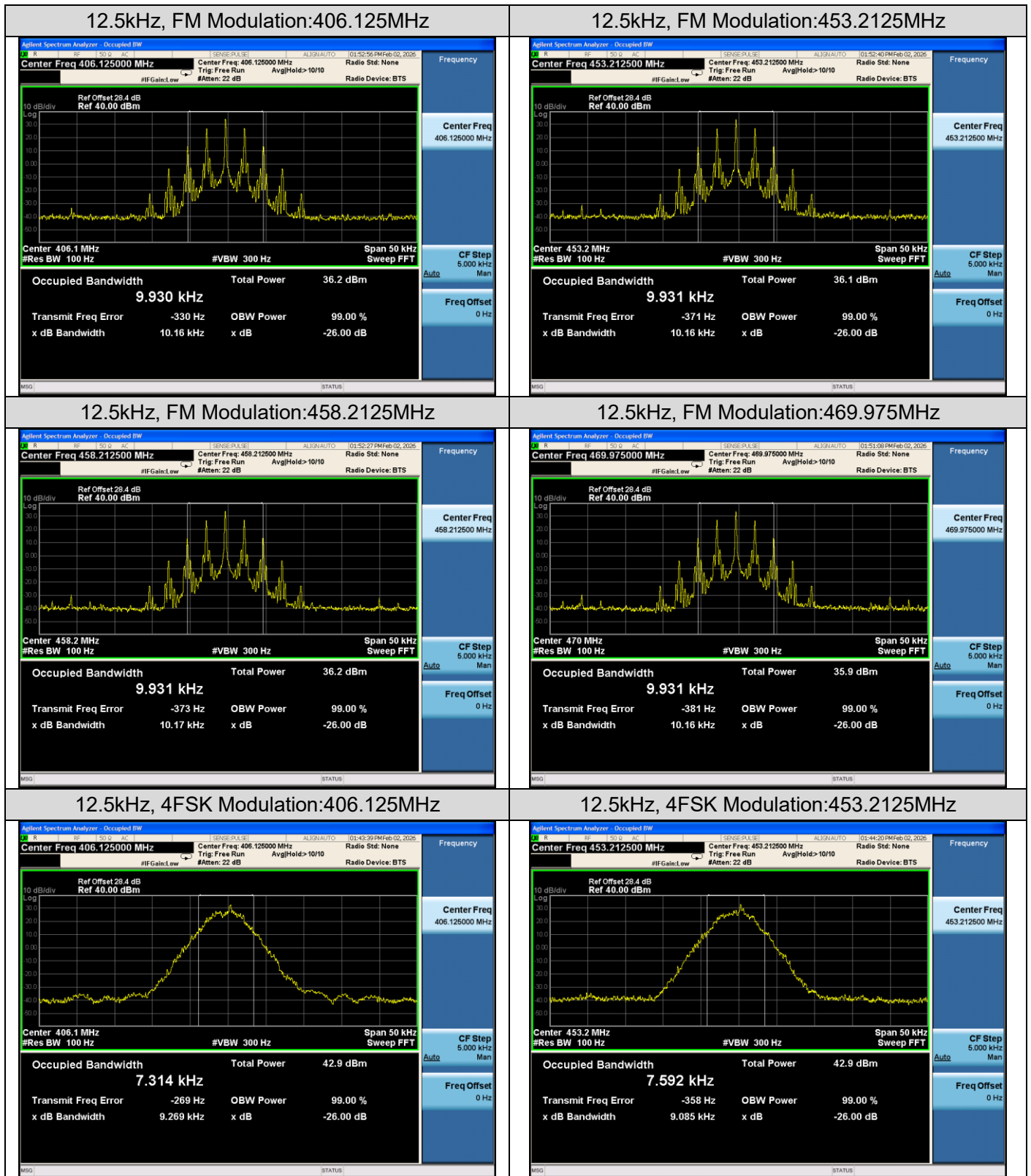
Measurement Result of UHF-Digital Modulation				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Limits	Result
406.125MHz	7.314	9.269	11.25 kHz	Pass
453.2125MHz	7.592	9.085	11.25 kHz	Pass
458.2125MHz	7.612	9.131	11.25 kHz	Pass
469.975MHz	7.623	9.413	11.25 kHz	Pass

Measurement Result of VHF-Analog Modulation				
Operating Frequency (MHz)	12.5 kHz Channel Separation			
	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Limits (kHz)	Result
136.025	9.929	10.16	11.25	Pass
155.7525	9.933	10.16	11.25	Pass
173.975	9.924	10.16	11.25	Pass

Measurement Result of VHF-Digital Modulation				
Operating Frequency (MHz)	12.5 kHz Channel Separation			
	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Limits (kHz)	Result
136.025	7.429	9.014	11.25	Pass
155.7525	7.243	9.725	11.25	Pass
173.975	7.034	9.439	11.25	Pass

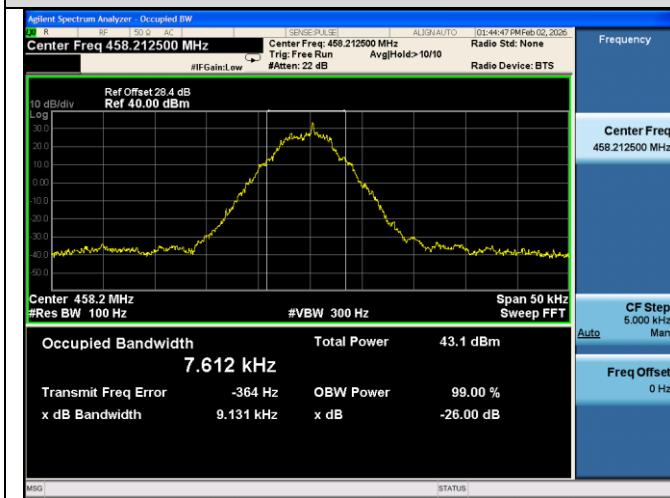
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Test plot as follows:

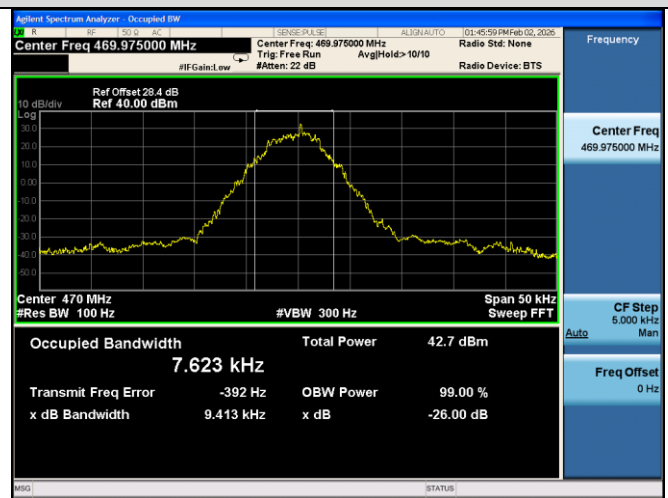


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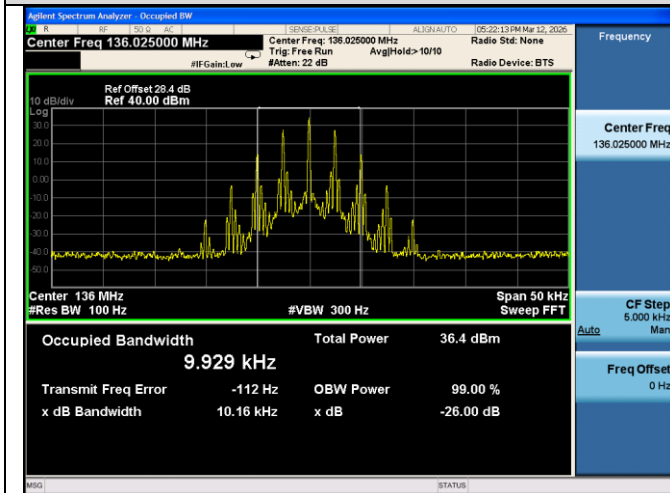
12.5kHz, 4FSK Modulation: 458.2125MHz



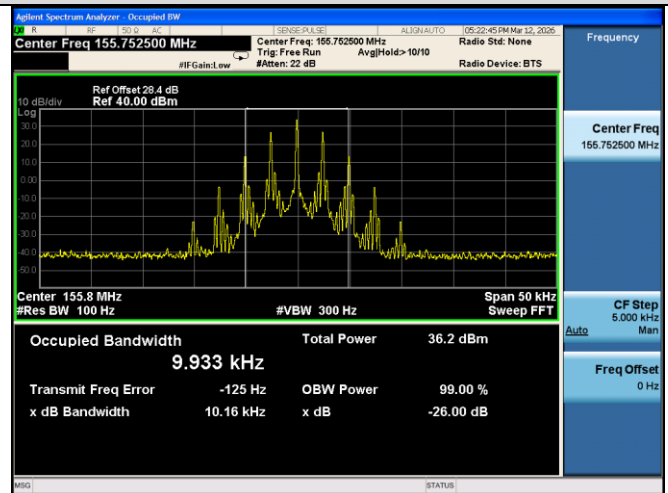
12.5kHz, 4FSK Modulation: 469.975MHz



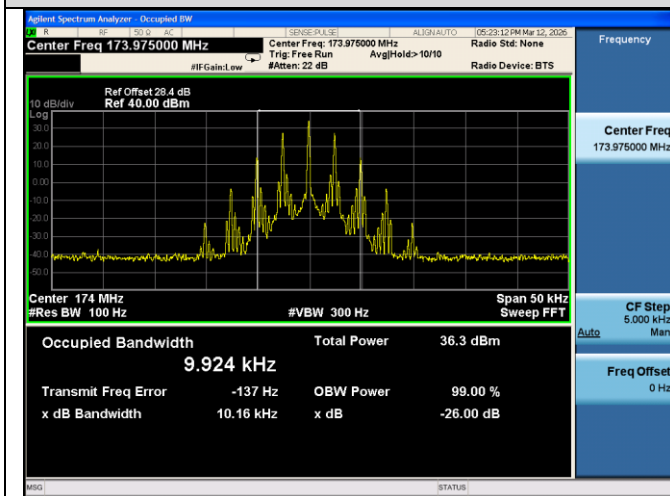
12.5kHz, FM Modulation: 136.025MHz



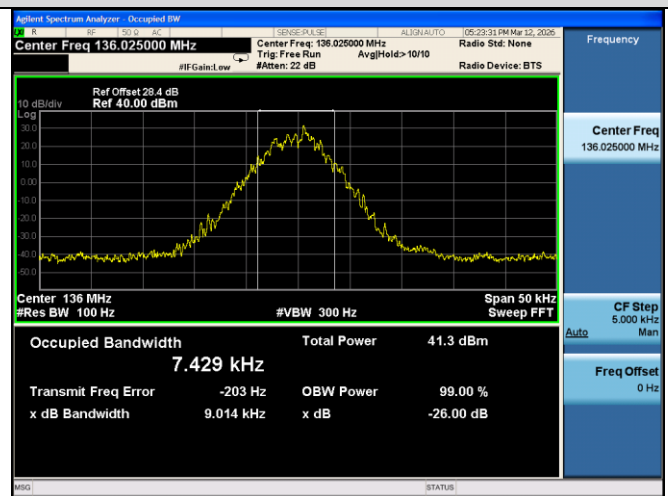
12.5kHz, FM Modulation: 155.7525MHz



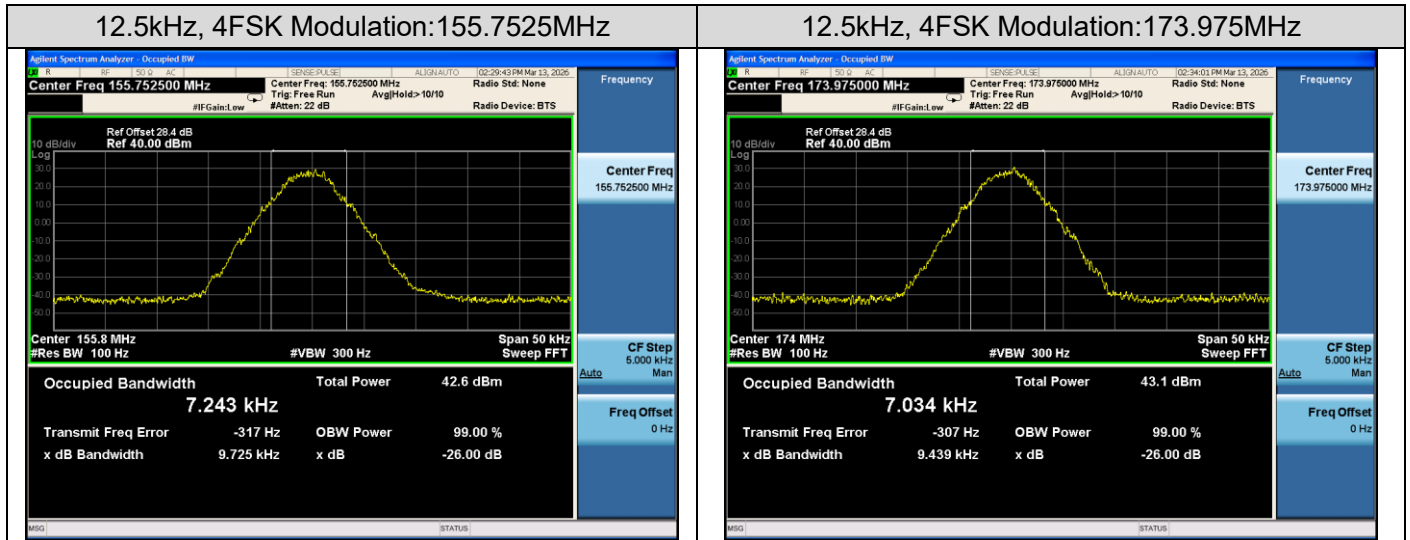
12.5kHz, FM Modulation: 173.975MHz



12.5kHz, 4FSK Modulation: 136.025MHz



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8. Spurious Radiated Emission

8.1 Provisions Applicable

According to FCC §2.1053 and §90.210, the power of each unwanted emission shall be less than Transmitted Power as specified below for transmitters designed to operate with each channel separation.

Emission Mask D -for 12.5 kHz Channel Separation:

- (1) On any frequency removed from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_0 of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_0 of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is lesser attenuation.

8.2 Measurement Procedure

1. On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
2. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
3. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
4. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The measurement shall be repeated with the test antenna set to horizontal polarization.
10. (Replace the antenna with a proper Antenna (substitution antenna)).
11. The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
12. The substitution antenna shall be connected to a calibrated signal generator.
13. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
14. The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
15. The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
16. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
17. The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

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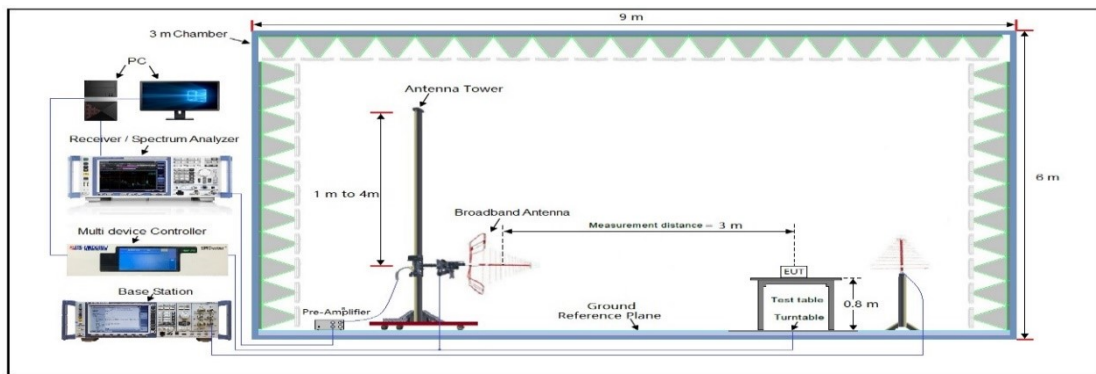
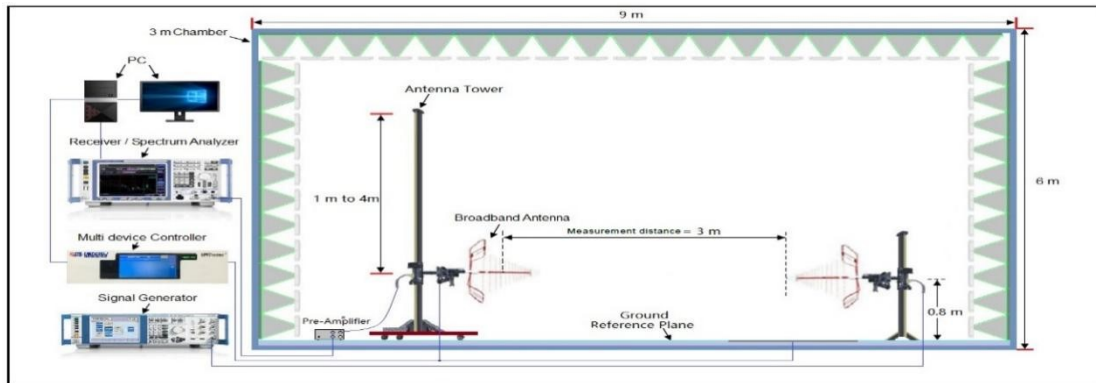
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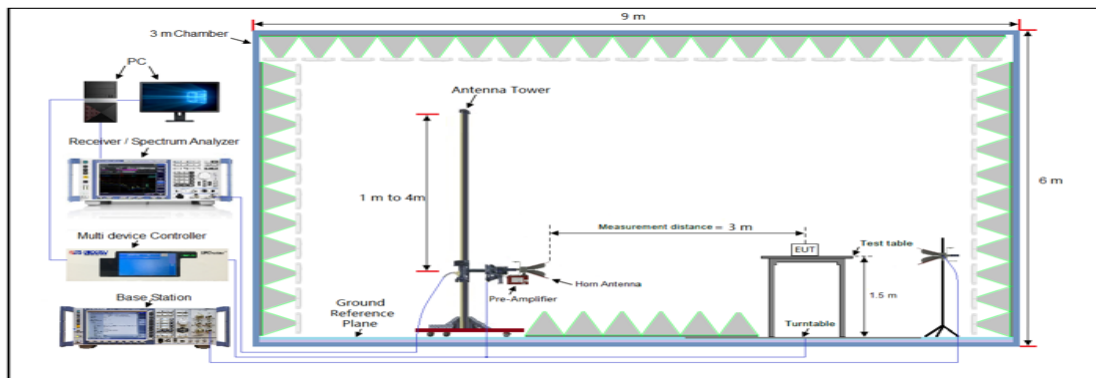
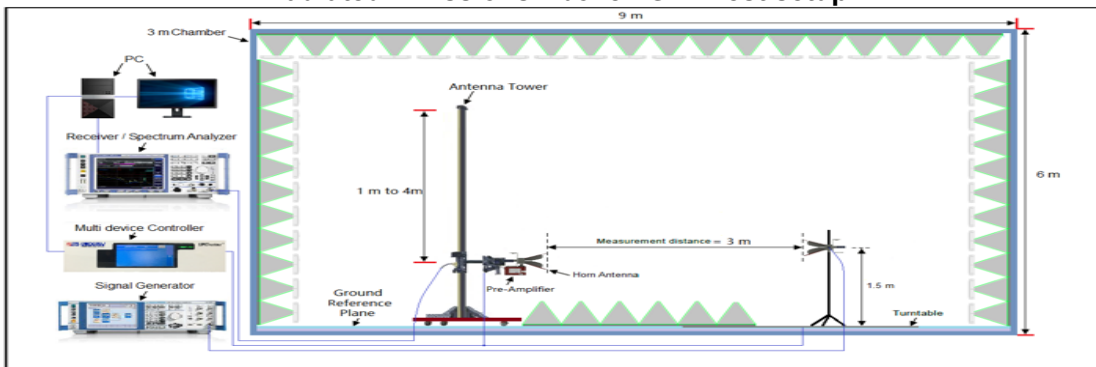
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8.3 Measurement Setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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8.4 Measurement Result

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10 harmonic.

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.

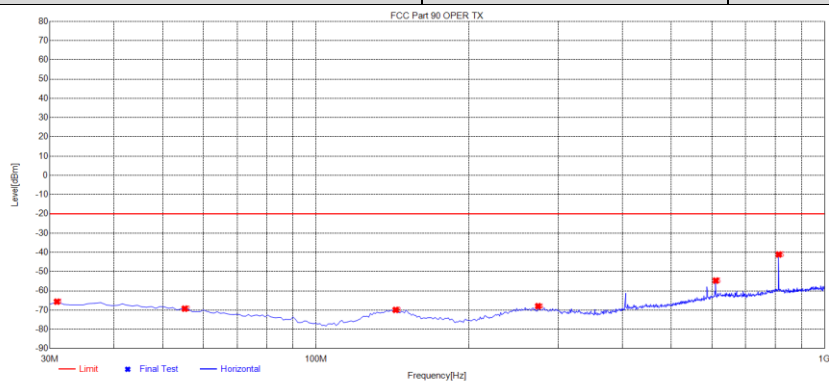
EIRP = "Read Value" + Measured substitution value + 2.15.

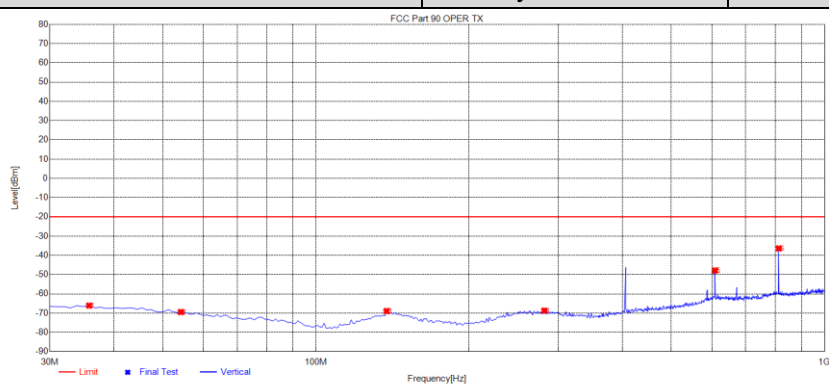
Test limit calculation:

Preliminary calculation	Final Result
At least $50 + 10 \log (P) = 50 + 10 \log (5) = 56.99 \text{ (dB)}$	Limit=P- Preliminary calculation= $36.99 - 56.99 = -20 \text{ dBm}$

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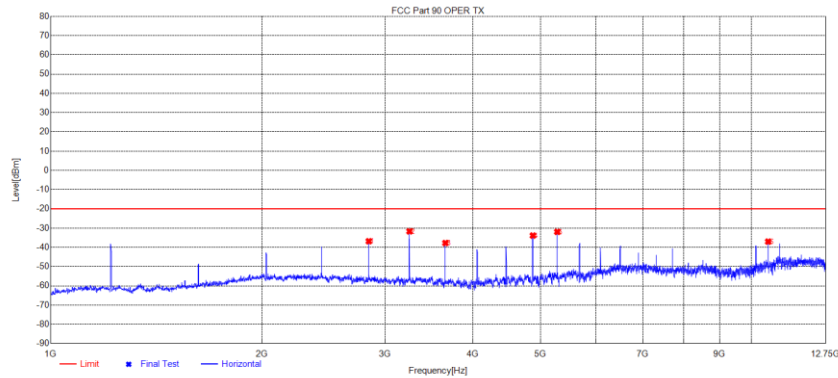
Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:406.125MHz-FM			Polarity:		Horizontal		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	30.97	-95.16	-65.60	-20.00	45.60	29.56	9	Horizontal
2	55.22	-96.10	-69.25	-20.00	49.25	26.85	355	Horizontal
3	143.49	-96.43	-69.88	-20.00	49.88	26.55	9	Horizontal
4	273.47	-95.24	-67.92	-20.00	47.92	27.32	196	Horizontal
5	611.03	-88.77	-54.66	-20.00	34.66	34.11	9	Horizontal
6	812.79	-78.13	-41.11	-20.00	21.11	37.02	196	Horizontal

Test Mode:	TX:406.125MHz-FM			Polarity:		Vertical		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	35.82	-95.67	-66.08	-20.00	46.08	29.59	92	Vertical
2	54.25	-96.49	-69.44	-20.00	49.44	27.05	5	Vertical
3	137.67	-95.48	-68.92	-20.00	48.92	26.56	323	Vertical
4	281.23	-95.96	-68.70	-20.00	48.70	27.26	92	Vertical
5	609.09	-81.93	-47.83	-20.00	27.83	34.10	119	Vertical
6	812.79	-73.40	-36.38	-20.00	16.38	37.02	5	Vertical

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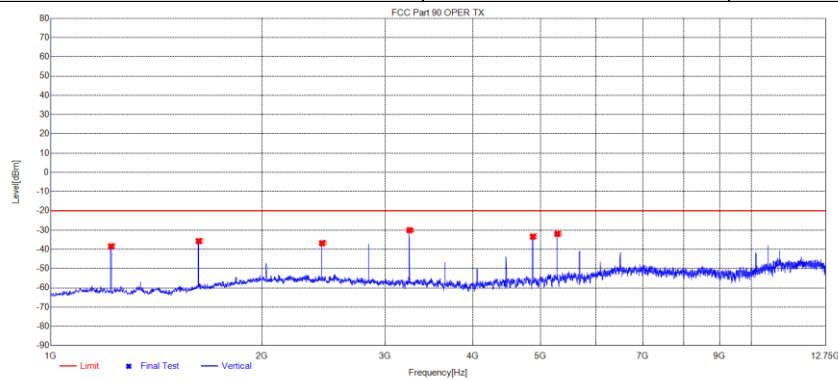
Radiated Emissions Above 1GHz

Test Mode:	TX:406.125MHz-FM	Polarity:	Horizontal
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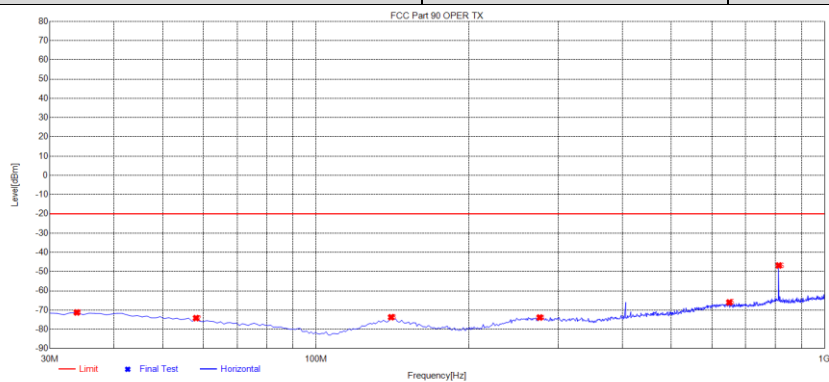
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	2842.5843	-38.65	-36.81	-20.00	16.81	1.84	299	Horizontal
2	3249.1749	-33.59	-31.69	-20.00	11.69	1.90	0	Horizontal
3	3655.7656	-40.09	-37.74	-20.00	17.74	2.35	223	Horizontal
4	4873.1873	-38.70	-33.86	-20.00	13.86	4.84	223	Horizontal
5	5279.778	-37.38	-31.95	-20.00	11.95	5.43	351	Horizontal
6	10559.581	-49.36	-37.00	-20.00	17.00	12.36	137	Horizontal

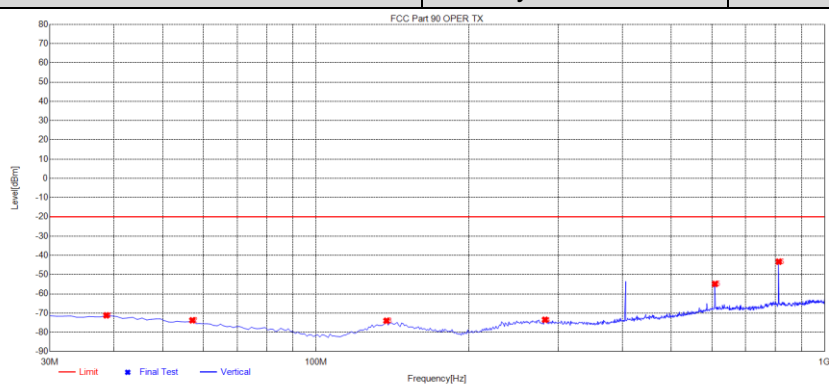
Test Mode:	TX:406.125MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1218.5719	-34.33	-38.41	-20.00	18.41	-4.08	10	Vertical
2	1625.1625	-33.09	-35.68	-20.00	15.68	-2.59	163	Vertical
3	2437.1687	-39.28	-36.81	-20.00	16.81	2.47	155	Vertical
4	3249.1749	-31.96	-30.06	-20.00	10.06	1.90	172	Vertical
5	4873.1873	-38.21	-33.37	-20.00	13.37	4.84	181	Vertical
6	5279.778	-37.38	-31.95	-20.00	11.95	5.43	155	Vertical

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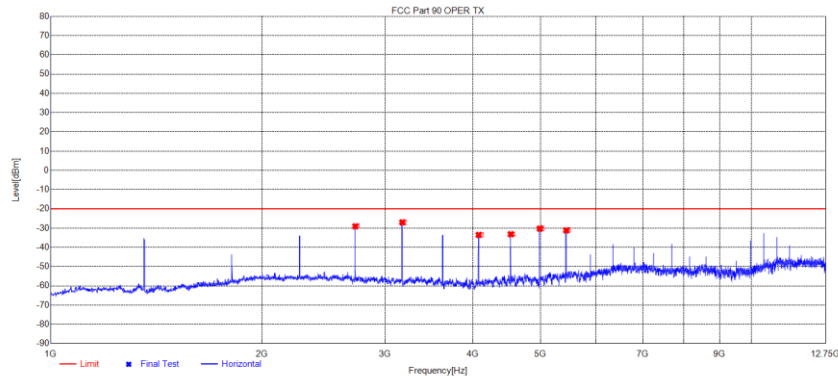
Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:406.125MHz-4FSK			Polarity:		Horizontal		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	33.88	-100.72	-71.21	-20.00	51.21	29.51	199	Horizontal
2	58.13	-100.52	-74.14	-20.00	54.14	26.38	154	Horizontal
3	140.58	-100.65	-73.68	-20.00	53.68	26.97	0	Horizontal
4	275.41	-101.10	-73.82	-20.00	53.82	27.28	252	Horizontal
5	649.83	-100.20	-65.97	-20.00	45.97	34.23	66	Horizontal
6	812.79	-83.83	-46.81	-20.00	26.81	37.02	92	Horizontal

Test Mode:	TX:406.125MHz-4FSK			Polarity:		Vertical		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	38.73	-100.80	-71.16	-20.00	51.16	29.64	339	Vertical
2	57.16	-100.25	-73.73	-20.00	53.73	26.52	117	Vertical
3	137.67	-100.52	-73.96	-20.00	53.96	26.56	241	Vertical
4	282.2	-100.70	-73.44	-20.00	53.44	27.26	285	Vertical
5	609.09	-88.93	-54.83	-20.00	34.83	34.10	126	Vertical
6	812.79	-80.29	-43.27	-20.00	23.27	37.02	1	Vertical

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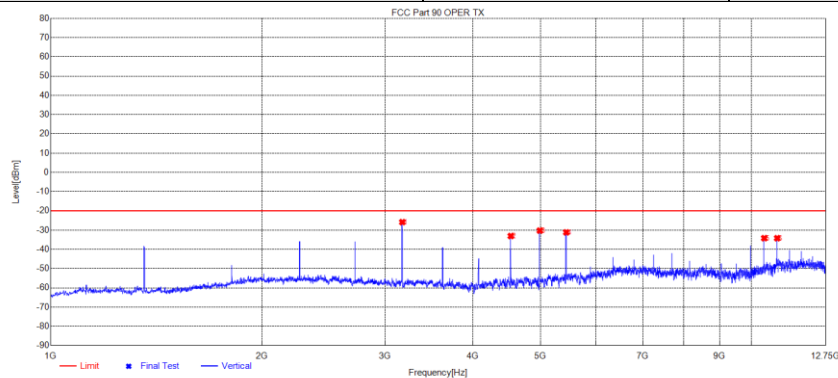
Radiated Emissions Above 1GHz

Test Mode:	TX:406.125MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	2719.1969	-31.16	-29.08	-20.00	9.08	2.08	281	Horizontal
2	3172.7923	-28.81	-27.03	-20.00	7.03	1.78	162	Horizontal
3	4078.8079	-36.33	-33.53	-20.00	13.53	2.80	25	Horizontal
4	4532.4032	-37.64	-33.17	-20.00	13.17	4.47	281	Horizontal
5	4985.9986	-35.22	-30.25	-20.00	10.25	4.97	351	Horizontal
6	5438.4188	-36.86	-31.17	-20.00	11.17	5.69	120	Horizontal

Test Mode:	TX:406.125MHz-4FSK	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	3172.7923	-27.63	-25.85	-20.00	5.85	1.78	182	Vertical
2	4532.4032	-37.53	-33.06	-20.00	13.06	4.47	173	Vertical
3	4985.9986	-35.22	-30.25	-20.00	10.25	4.97	216	Vertical
4	5438.4188	-36.86	-31.17	-20.00	11.17	5.69	130	Vertical
5	10424.4424	-46.18	-34.18	-20.00	14.18	12.00	122	Vertical
6	10876.8627	-47.61	-34.20	-20.00	14.20	13.41	182	Vertical

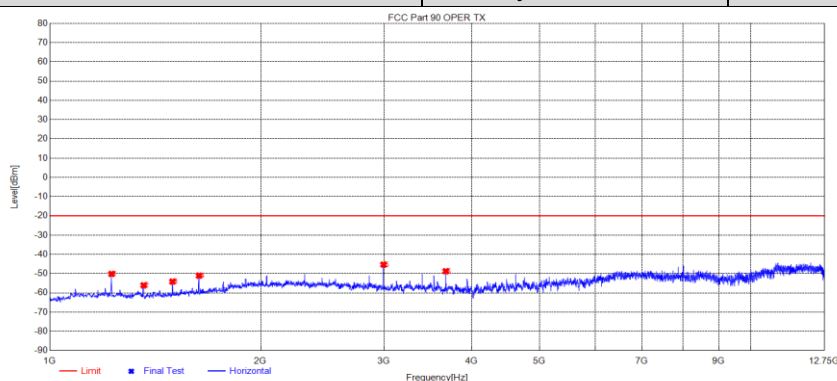
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Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:136.025MHz-FM			Polarity:		Horizontal		
FCC Part 90 OPER TX <								

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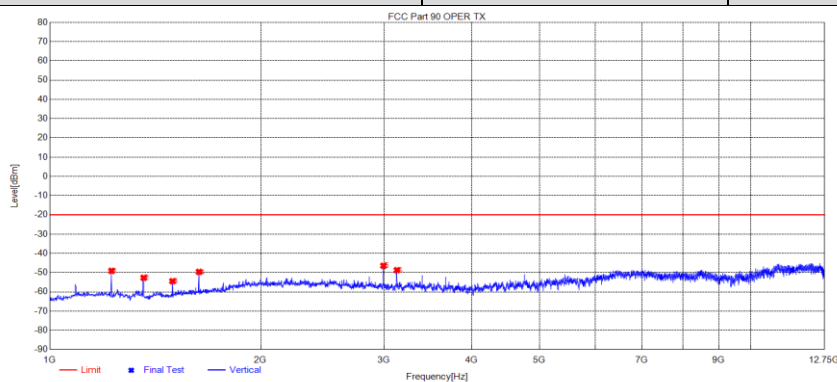
Radiated Emissions Above 1GHz

Test Mode:	TX:136.025MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1224.4474	-46.04	-50.13	-20.00	30.13	-4.09	248	Horizontal
2	1360.7611	-51.98	-56.08	-20.00	36.08	-4.10	360	Horizontal
3	1495.8996	-50.01	-54.14	-20.00	34.14	-4.13	360	Horizontal
4	1632.2132	-48.54	-51.05	-20.00	31.05	-2.51	27	Horizontal
5	2992.9993	-46.86	-45.32	-20.00	25.32	1.54	231	Horizontal
6	3672.2172	-51.11	-48.75	-20.00	28.75	2.36	214	Horizontal

Test Mode:	TX:136.025MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1224.4474	-44.98	-49.07	-20.00	29.07	-4.09	359	Vertical
2	1360.7611	-48.56	-52.66	-20.00	32.66	-4.10	179	Vertical
3	1495.8996	-50.31	-54.44	-20.00	34.44	-4.13	171	Vertical
4	1632.2132	-47.09	-49.60	-20.00	29.60	-2.51	179	Vertical
5	2992.9993	-47.96	-46.42	-20.00	26.42	1.54	179	Vertical
6	3128.1378	-50.43	-48.71	-20.00	28.71	1.72	179	Vertical

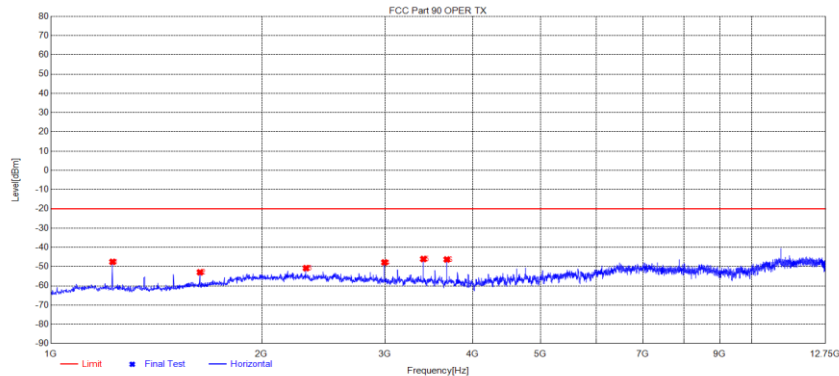
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Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:136.025MHz-4FSK			Polarity:		Horizontal		

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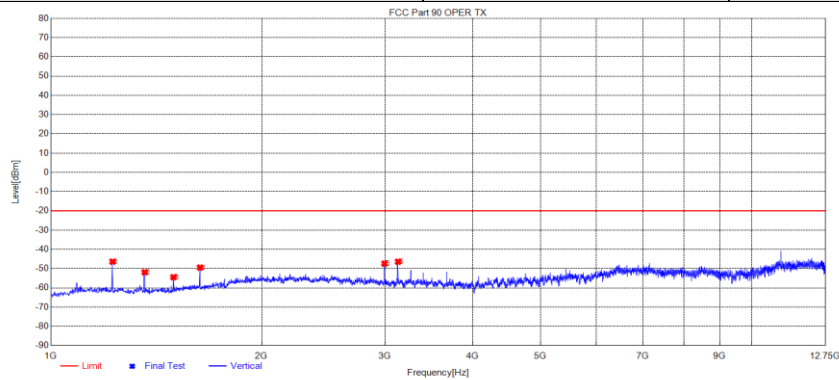
Radiated Emissions Above 1GHz

Test Mode:	TX:136.025MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1224.4474	-43.42	-47.51	-20.00	27.51	-4.09	129	Horizontal
2	1632.2132	-50.44	-52.95	-20.00	32.95	-2.51	360	Horizontal
3	2312.6063	-53.12	-50.79	-20.00	30.79	2.33	360	Horizontal
4	2992.9993	-49.34	-47.80	-20.00	27.80	1.54	197	Horizontal
5	3400.7651	-48.18	-46.04	-20.00	26.04	2.14	9	Horizontal
6	3673.3923	-48.66	-46.29	-20.00	26.29	2.37	27	Horizontal

Test Mode:	TX:136.025MHz-4FSK	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1224.4474	-42.28	-46.37	-20.00	26.37	-4.09	359	Vertical
2	1360.7611	-47.79	-51.89	-20.00	31.89	-4.10	180	Vertical
3	1495.8996	-50.33	-54.46	-20.00	34.46	-4.13	155	Vertical
4	1632.2132	-46.95	-49.46	-20.00	29.46	-2.51	171	Vertical
5	2992.9993	-48.92	-47.38	-20.00	27.38	1.54	206	Vertical
6	3129.3129	-48.13	-46.41	-20.00	26.41	1.72	180	Vertical

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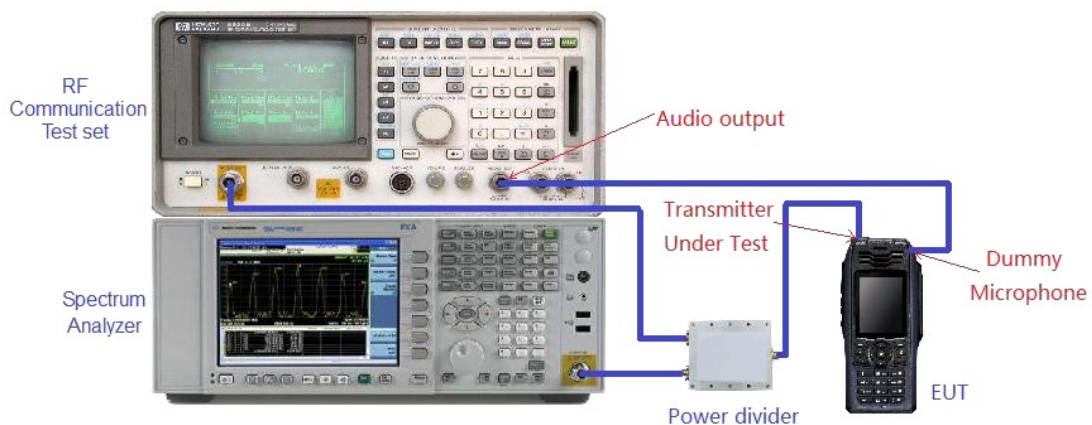
8.5 Emission Mask Measurement Part

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

-Connect the equipment as illustrated.

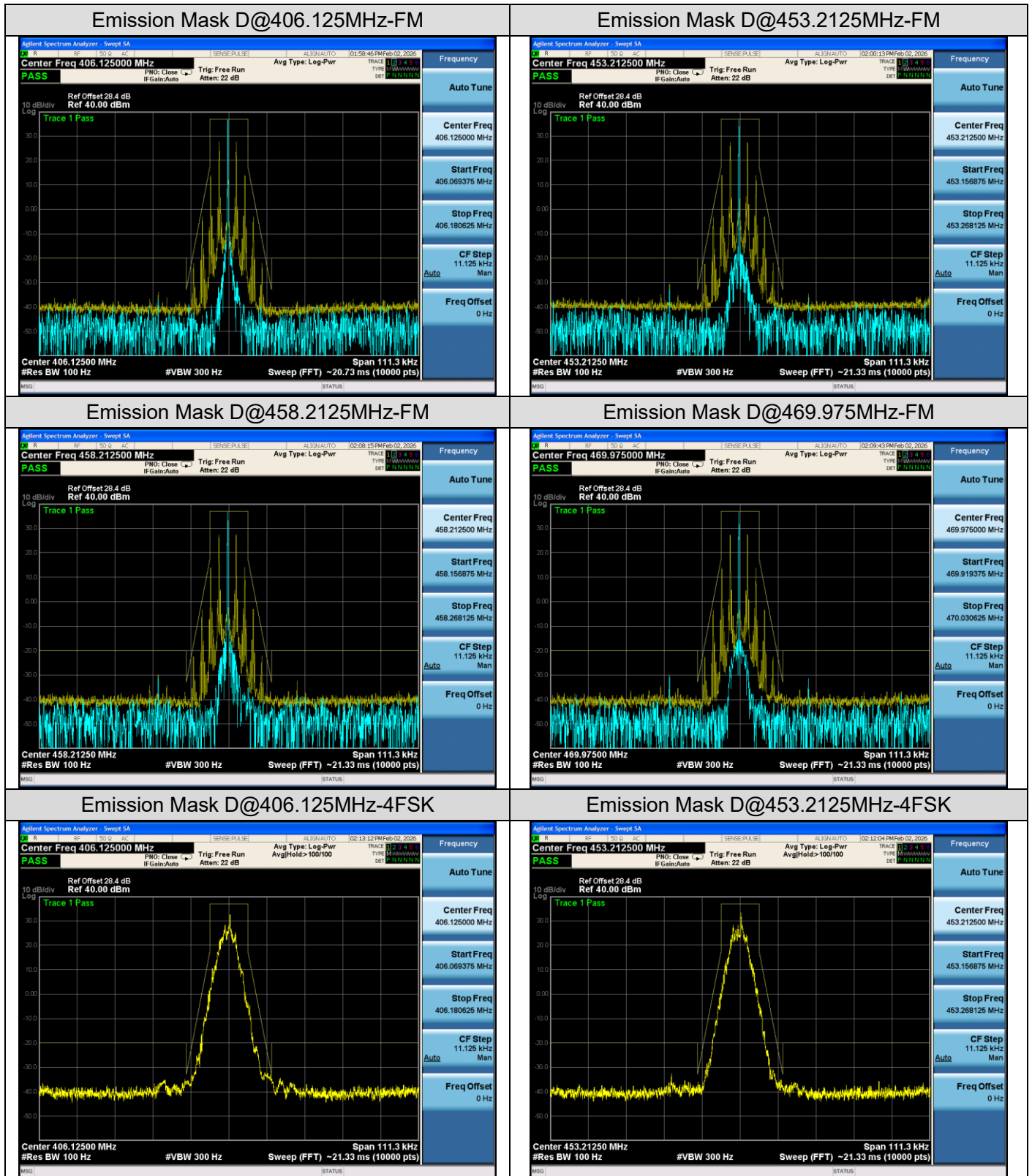
-Spectrum set as follow:

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.



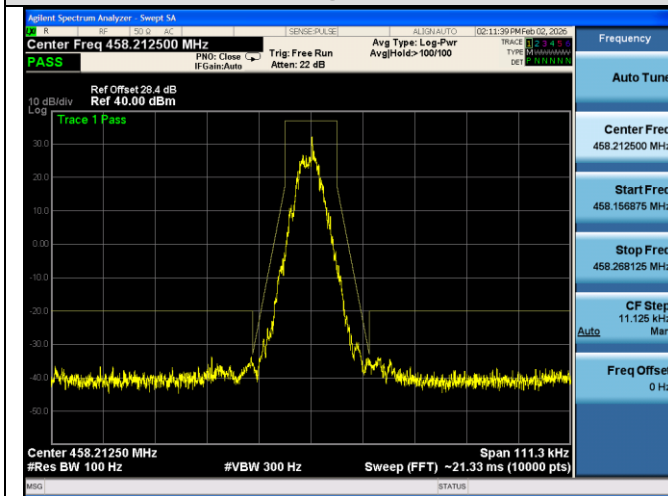
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Test plot as follows:

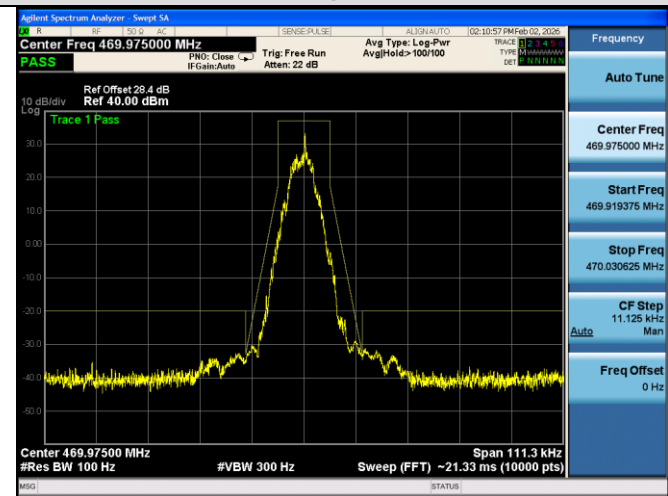


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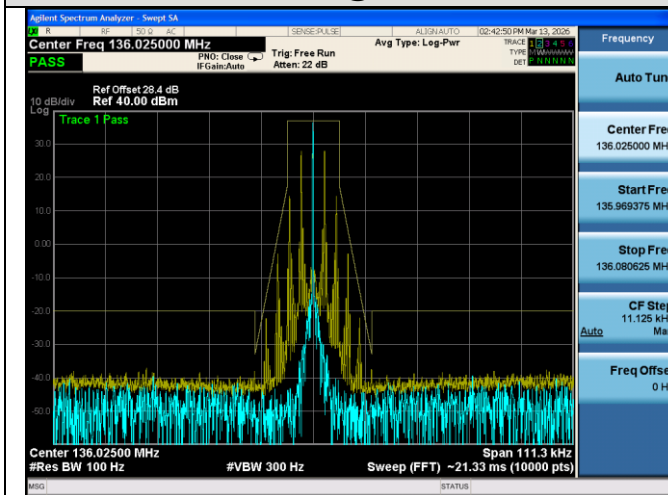
Emission Mask D@458.2125MHz-4FSK



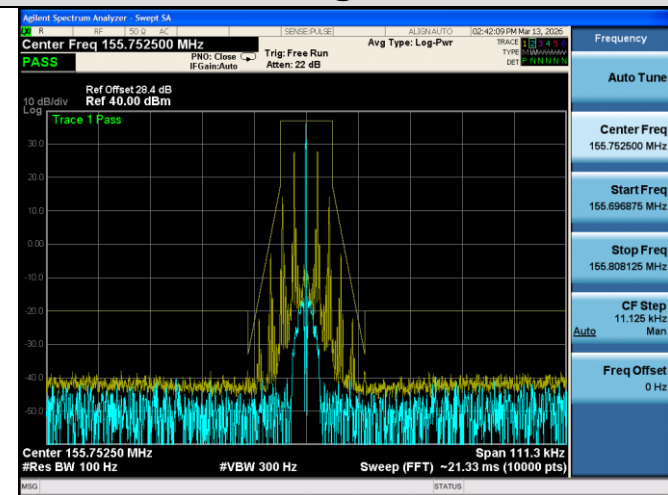
Emission Mask D@469.975MHz-4FSK



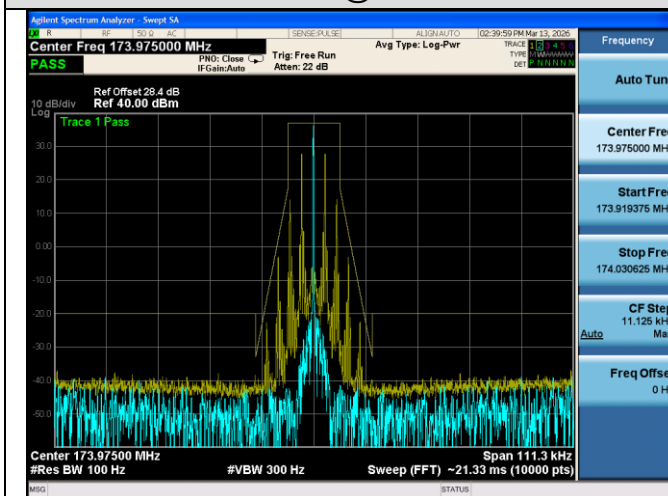
Emission Mask D@136.025MHz-FM



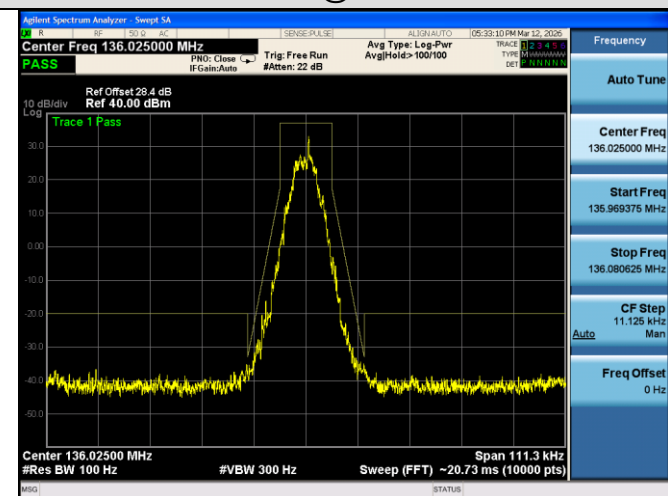
Emission Mask D@155.7525MHz-FM



Emission Mask D@173.975MHz-FM



Emission Mask D@136.025MHz-4FSK



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