

FCC Test Report

Report No.: 2605P43333EB

Applicant: VTech (Dongguan) Communications Limited

Address: Xia Ling Bei Management Zone, Liaobu Town Dongguan China

Product Name: AQUA FRS

Product Model: VTR-3312

Multiple Models: N/A

Trade Mark: N/A

FCC ID: 2AZ2A-VTR3312

Standards: FCC CFR Title 47 Part 95B

Test Date: 2026-01-30 to 2026-01-31

Test Result: Complied

Issue Date: 2026-02-03

Reviewed by:

James Fu

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Project Engineer

Approved by:

Jacob Kong

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Prepared by:

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Revision History

Version No.	Issued Date	Description
00	2026-02-03	Original

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1 General Information

1.1 Client Information

Applicant:	VTech (Dongguan) Communications Limited
Address:	Xia Ling Bei Management Zone, Liaobu Town Dongguan China
Manufacturer:	VTech Communications Limited
Address:	23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, New Territories, Hong Kong.

1.2 Product Description of EUT

The EUT is AQUA FRS that contains FRS radio, this report covers the full testing of the FRS radio.

Sample Serial number	3GKF-1 for RE Test, 3GRU-1 for RF conducted test (assigned by WATC)
Sample Received Date	2026-01-28
Sample Status	Good Condition
Frequency Range	462.5500~462.7250MHz 467.5625~467.7125MHz
Maximum ERP	462.5500-462.7250MHz: 31.15dBm 467.5625-467.7125MHz: 26.30dBm
Modulation Technology	FM
Emission Type	F3E
Spatial Streams	SISO (1TX, 1RX)
Antenna Type	Helical Antenna
Antenna Gain [#]	-2 dBi
Power Supply	DC 5V from USB or DC 3.7V from battery
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Modulation Limiting		1.32%
Note 1: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. Note 2: The Decision Rule is based on simple acceptance with ISO Guide 98-4:2012 Clause 8.2 (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)		

1.4 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: ga@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.5 Test Methodology

FCC CFR Title 47 Part 2, 95B

ANSI C63.26-2015

ANSI TIA-603-E-2016

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

2 Description of Measurement

2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	462.5625	8	467.5625	15	462.5500
2	462.5875	9	467.5875	16	462.5750
3	462.6125	10	467.6125	17	462.6000
4	462.6375	11	467.6375	18	462.6250
5	462.6625	12	467.6625	19	462.6500
6	462.6875	13	467.6875	20	462.6750
7	462.7125	14	467.7125	21	462.7000
/	/	/	/	22	462.7250
According to Per C63.26-2015, section 5.1, Channel 4 and Channel 11 was selected to test					

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation

Worst-Case Configuration:
For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report
For radiated emission was investigated from 30MHz to 10 times of fundamental with the EUT transmits at the highest output power as worst-case scenario.

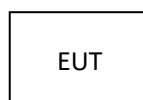
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
/	/	/	/	/

2.4 Block Diagram of Connection between EUT and AE

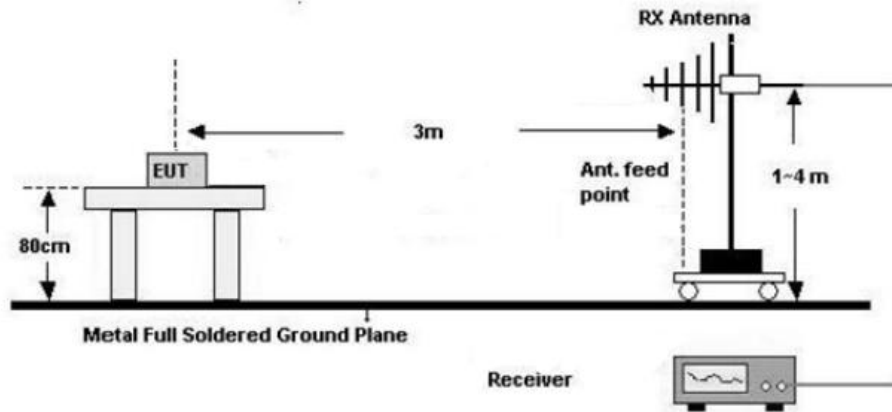


Note: for reference only, the actual connection setup used for testing please refer to the test photos.

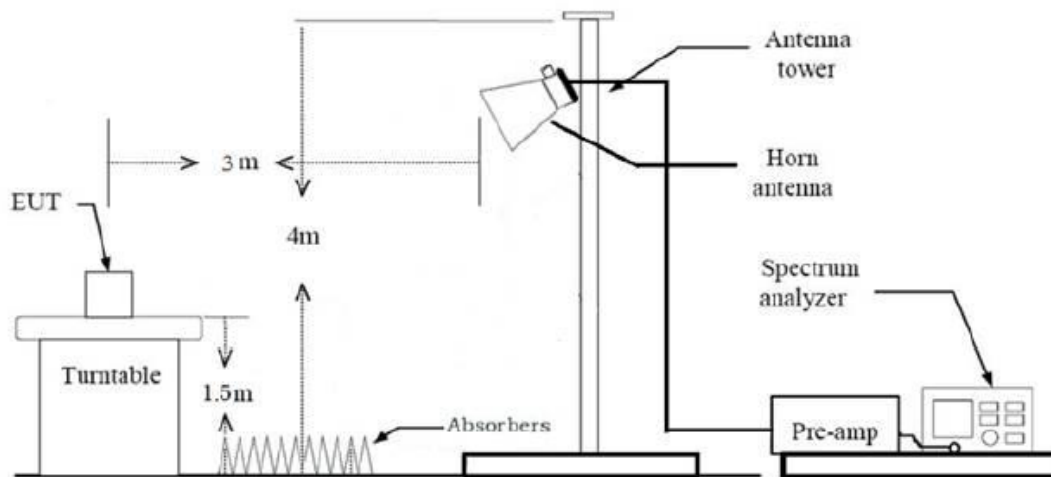
2.5 Test Setup

1) Radiated emission measurement:

30MHz-1GHz (3m SAC)

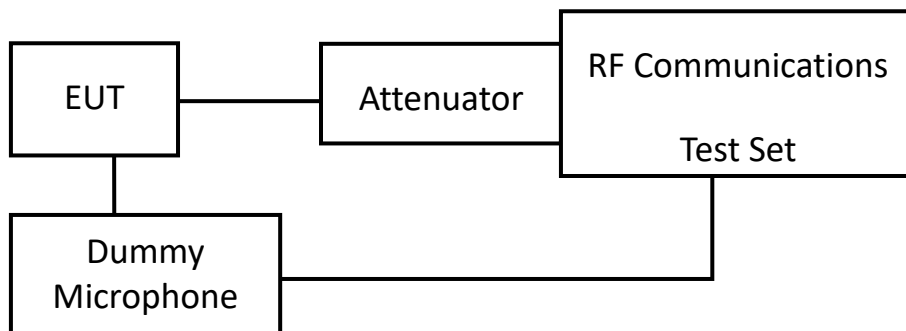


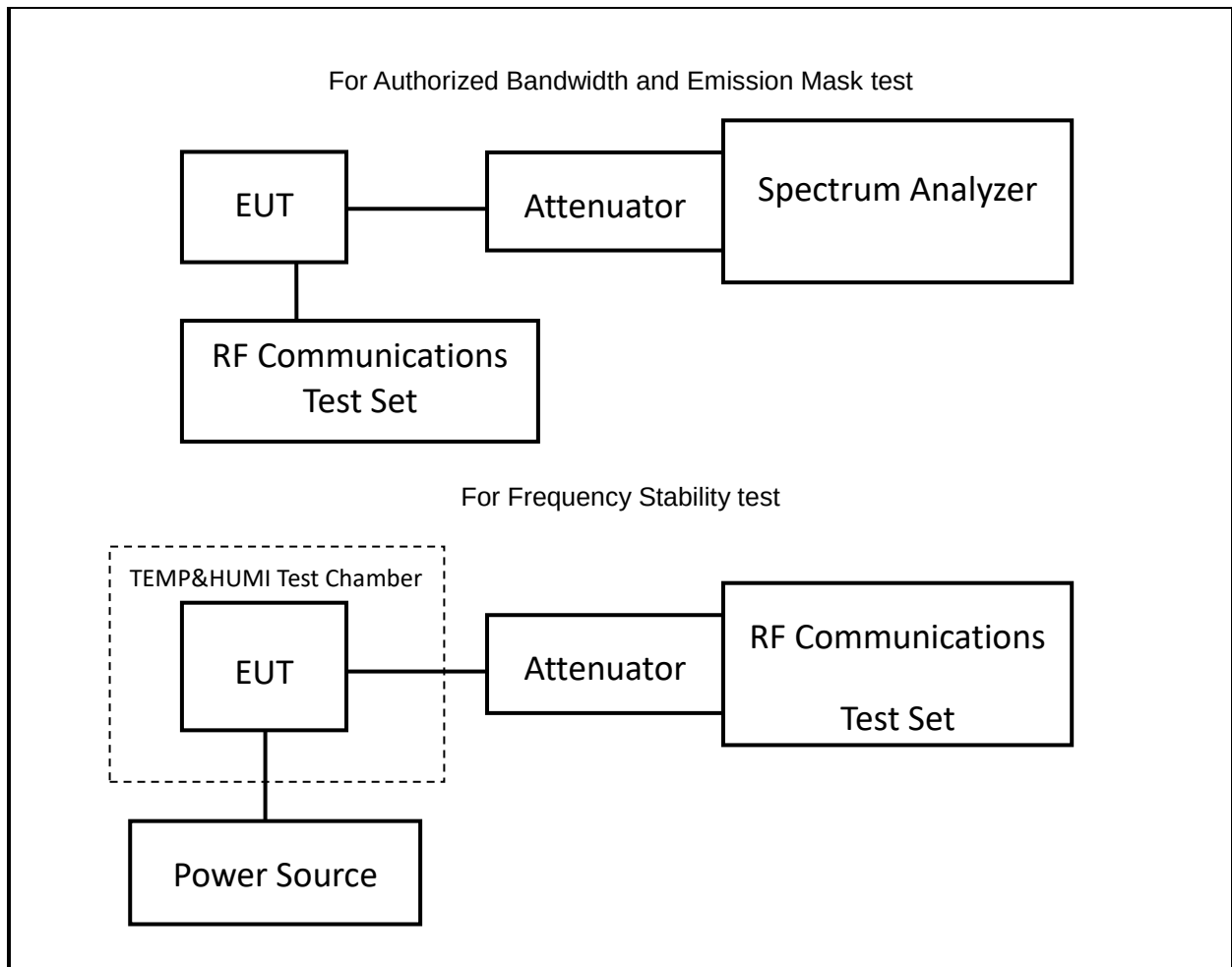
1GHz-5GHz



2) RF Conducted Test

For Modulation Limiting/Audio Frequency Response test





2.6 Test Procedure

Radiated Emission Procedure:

a) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

b) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (RF Communications Test Set or Spectrum analyzer) through Attenuator and RF cable.
2. The cable assembly insertion loss of 11.0dB (including 10.0dB Attenuator and 1.0dB cable) was entered as an offset in the spectrum analyzer. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode with modulation signals required.

2.7 Measurement Method

Description of Test	Measurement Method
Modulation Limiting	ANSI C63.26-2015 section 5.3.2
Audio Frequency Response	ANSI C63.26-2015 section 5.3.3.2
Audio frequency filter	ANSI TIA-603-E-2016 section 2.2.15
Authorized Bandwidth	ANSI C63.26-2015 section 5.4.4
Transmitter output power and effective radiated power (e.r.p.)	ANSI C63.26-2015 section 5.2.3.3&5.2.5.5 or ANSI C63.26-2015 section 5.5.4
Emission Mask	ANSI C63.26-2015 section 5.7.3
Frequency Stability	ANSI C63.26-2015 section 5.6
Radiated Unwanted Emissions	ANSI C63.26-2015 section 5.5.4

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2025/5/23	2026/5/22
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2025/5/23	2026/5/22
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2025/9/19	2026/9/18
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2025/9/19	2026/9/18
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
N/A	Coaxial Cable	NO.9	T-01-EM065	2025/9/19	2026/9/18
N/A	Coaxial Cable	NO.15	T-01-EM115	2025/9/19	2026/9/18
N/A	Coaxial Cable	NO.16	T-01-EM116	2025/9/19	2026/9/18
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2025/5/23	2026/5/22
HP	RF communication test set	HP8920A	T-01-EM046	2025/9/19	2026/9/18
BACL	TEMP&HUMI Test Chamber	BTH-150	30022	2025/9/19	2026/9/18
FLUKE	Digital Multimeter	15B+	T-01-EM112	2025/9/19	2026/9/18
Unknown	10dB attenuator	10dB	10-1	2025/5/23	2026/5/22
UNI-T	DC Power Supply	UTP1310S	C221286498	NCR	NCR

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§2.1055(d), §95.565	FRS Frequency Accuracy	Compliance
§2.1046, §95.567	FRS transmit Power	Compliance
§95.571	FRS Emission Types	Compliance
§2.1049, §95.573	FRS Authorized Bandwidth	Compliance
§95.579	Emission Mask	Compliance
§2.1047, §95.575	FRS Modulation Limits	Compliance
§2.1053, §95.579	FRS Unwanted Emissions Limits	Compliance
§95.587	FRS Additional Requirements	Compliance

3.2 Limit

Test items	Limit
FRS Frequency Accuracy	Each FRS transmitter type must be designed such that the carrier frequencies remain within ± 2.5 parts-per-million of the channel center frequencies specified in § 95.563 during normal operating conditions.
FRS transmit Power	Each FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does not exceed 0.5 Watts and the ERP on channels 1 through 7 and 15 through 22 does not exceed 2.0 Watts.
FRS Emission Types	Each FRS transmitter type must be designed such that it can transmit only the following emission types: F3E, G3E, F2D, and G2D.
FRS Authorized Bandwidth	Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5 kHz.
FRS Modulation Limits	Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.
FRS Unwanted Emissions Limits	Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph. (a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least: (1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency. (2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency. (3) $43 + 10 \log (P)$ dB in any frequency band removed from the channel center frequency by more than 31.25 kHz. (b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) and (2) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency range specified in paragraph (a)(3) is measured with a reference bandwidth of at least 30 kHz. (c) Measurement conditions. The requirements in this section apply to each FRS transmitter type both with and without the connection of permitted attachments, such as an external speaker, microphone and/or power cord.

3.3 Radiated emission Test Data

3.3.1 Effective Radiated Power (e.r.p.)

Test Date:	2026-01-30	Test By:	Tim Lai
Environment condition:	Temperature: 23.3°C; Relative Humidity: 49%; ATM Pressure: 101.3kPa		

Frequency (MHz)	Reading level (dBμV)	Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	EIRP CF	ERP (dBm)	Limit (dBm)	Margin (dB)	Remark
462.6375MHz									
462.6375	93.00	horizontal	23.63	116.63	95.2	19.28	33	-13.72	Peak
462.6375	104.87	vertical	23.63	128.50	95.2	31.15	33	-1.85	Peak
467.6375MHz									
467.6375	89.53	horizontal	23.69	113.22	95.2	15.87	27	-11.13	Peak
467.6375	99.96	vertical	23.69	123.65	95.2	26.30	27	-0.70	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Result – Limit

According to ANSI C63.26-2015 section 5.2.7:

$EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

Test was performed on 3meters distance, so

$EIRP = \text{Corrected Amplitude} + 20\log(3) - 104.8$
 $= \text{Corrected Amplitude} - 95.2$

According to ANSI C63.26-2015 Annex C, C.4 :

$ERP = EIRP - 2.15 \text{ dB}$

So $ERP = \text{Corrected Amplitude} - 95.2 - 2.15$

3.3.2 Radiated Unwanted Emissions

Test Date:	2026-01-30	Test By:	Tim Lai
Environment condition:	Temperature:23.3°C; Relative Humidity: 49%; ATM Pressure: 101.3kPa		

Frequency (MHz)	Reading level (dBμV)	Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	EIRP CF	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
462.6375MHz									
925.275	26.89	horizontal	30.19	57.08	95.2	-38.12	-13	-25.12	Peak
1387.913	63.37	horizontal	-5.57	57.80	95.2	-37.40	-13	-24.40	Peak
1850.550	50.69	horizontal	-3.89	46.80	95.2	-48.40	-13	-35.40	Peak
2313.188	61.07	horizontal	-3.05	58.02	95.2	-37.18	-13	-24.18	Peak
2775.825	62.90	horizontal	-2.35	60.55	95.2	-34.65	-13	-21.65	Peak
3238.463	59.67	horizontal	-2.73	56.94	95.2	-38.26	-13	-25.26	Peak
3701.100	53.60	horizontal	-2.55	51.05	95.2	-44.15	-13	-31.15	Peak
925.275	34.68	vertical	30.19	64.87	95.2	-30.33	-13	-17.33	Peak
1387.913	65.00	vertical	-5.57	59.43	95.2	-35.77	-13	-22.77	Peak
1850.550	51.99	vertical	-3.89	48.10	95.2	-47.10	-13	-34.10	Peak
2313.188	64.03	vertical	-3.05	60.98	95.2	-34.22	-13	-21.22	Peak
2775.825	63.72	vertical	-2.35	61.37	95.2	-33.83	-13	-20.83	Peak
3238.463	55.19	vertical	-2.73	52.46	95.2	-42.74	-13	-29.74	Peak
4626.375	53.32	vertical	-2.57	50.75	95.2	-44.45	-13	-31.45	Peak
467.6375MHz									
935.275	24.26	horizontal	30.20	54.46	95.2	-40.74	-13	-27.74	Peak
1402.913	57.58	horizontal	-5.42	52.16	95.2	-43.04	-13	-30.04	Peak
1870.550	51.50	horizontal	-3.99	47.51	95.2	-47.69	-13	-34.69	Peak
2338.188	57.64	horizontal	-2.97	54.67	95.2	-40.53	-13	-27.53	Peak
2805.825	60.01	horizontal	-2.35	57.66	95.2	-37.54	-13	-24.54	Peak
3273.463	53.43	horizontal	-2.69	50.74	95.2	-44.46	-13	-31.46	Peak
935.275	31.47	vertical	30.20	61.67	95.2	-33.53	-13	-20.53	Peak
1402.913	57.95	vertical	-5.42	52.53	95.2	-42.67	-13	-29.67	Peak
1870.550	55.29	vertical	-3.99	51.30	95.2	-43.90	-13	-30.90	Peak

2338.188	62.30	vertical	-2.97	59.33	95.2	-35.87	-13	-22.87	Peak
2805.825	59.84	vertical	-2.35	57.49	95.2	-37.71	-13	-24.71	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Result – Limit

According to ANSI C63.26-2015 section 5.2.7:

$EIRP\ (dBm) = E\ (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

Test was performed on 3meters distance, so

Result = Corrected Amplitude + $20\log(3) - 104.8$

= Corrected Amplitude - 95.2

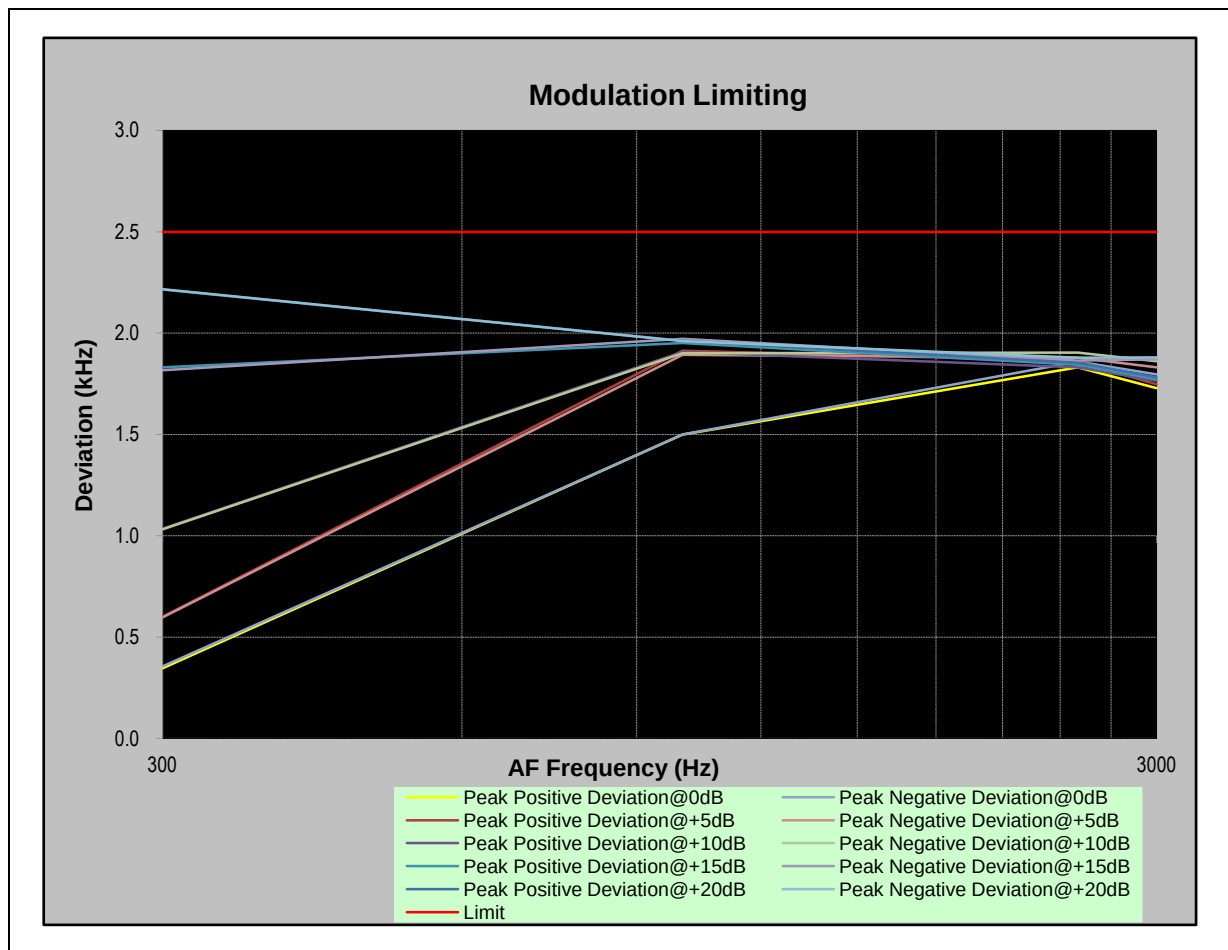
The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

3.4 RF Conducted Test Data

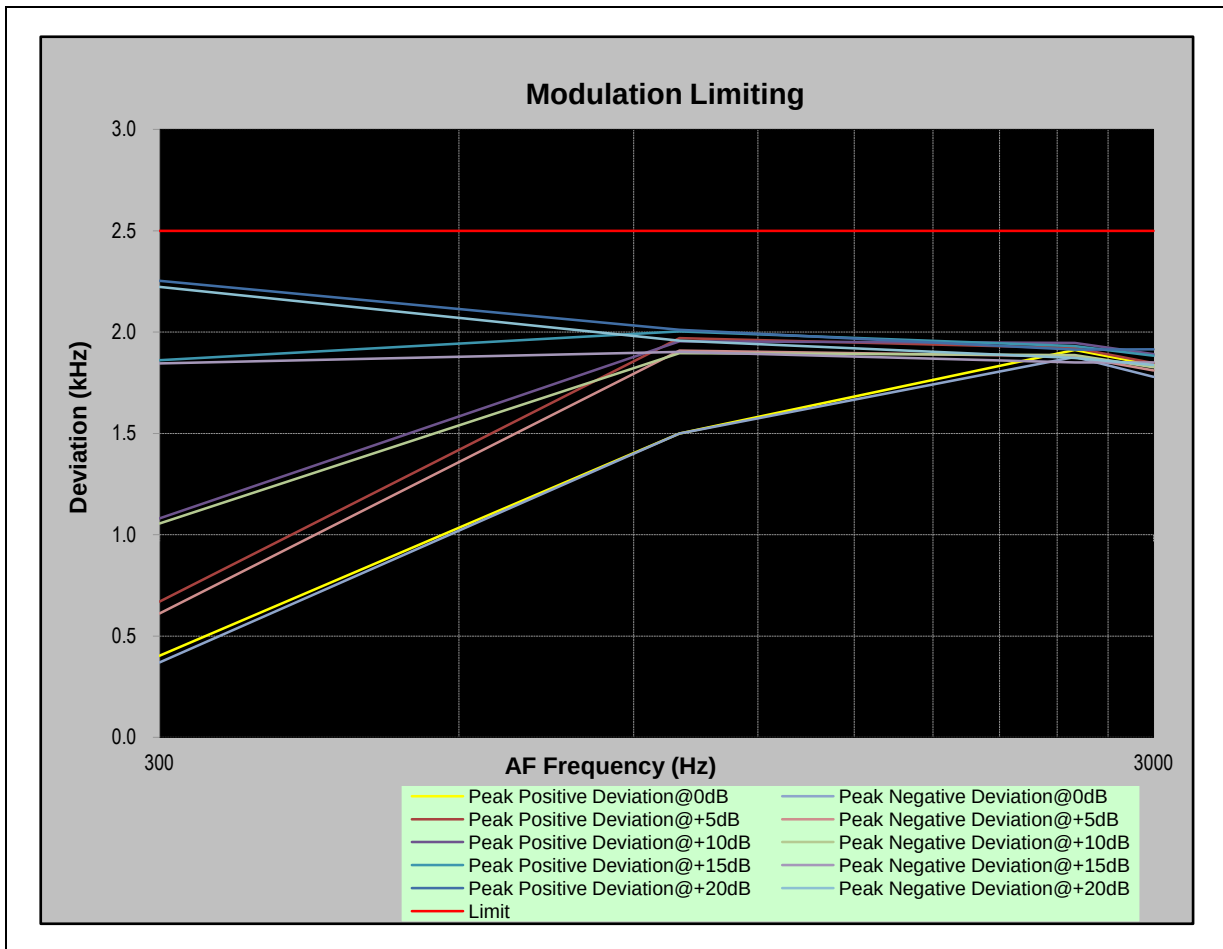
Test Date:	2026-01-31	Test By:	Ryan Zhang
Environment condition:	Temperature: 24.8°C; RelativeHumidity:53%; ATM Pressure: 100.6kPa		

3.4.1 MODULATION LIMITING

Carrier Frequency: 462.6375MHz separation:12.5kHz											
Audio Frequency (Hz)	Deviation (@+0dB) [kHz]		Deviation (@+5dB) [kHz]		Deviation (@+10dB) [kHz]		Deviation (@+15dB) [kHz]		Deviation (@+20dB) [kHz]		Limit [kHz]
	Peak+	Peak-	Peak+	Peak-	Peak+	Peak-	Peak+	Peak-	Peak+	Peak-	
300	0.347	0.356	0.601	0.598	1.035	1.032	1.831	1.817	2.215	2.217	2.500
1000	1.500	1.500	1.913	1.893	1.907	1.901	1.951	1.972	1.962	1.961	2.500
2500	1.832	1.859	1.861	1.878	1.831	1.904	1.844	1.865	1.854	1.879	2.500
3000	1.728	1.797	1.748	1.831	1.765	1.862	1.773	1.871	1.782	1.881	2.500

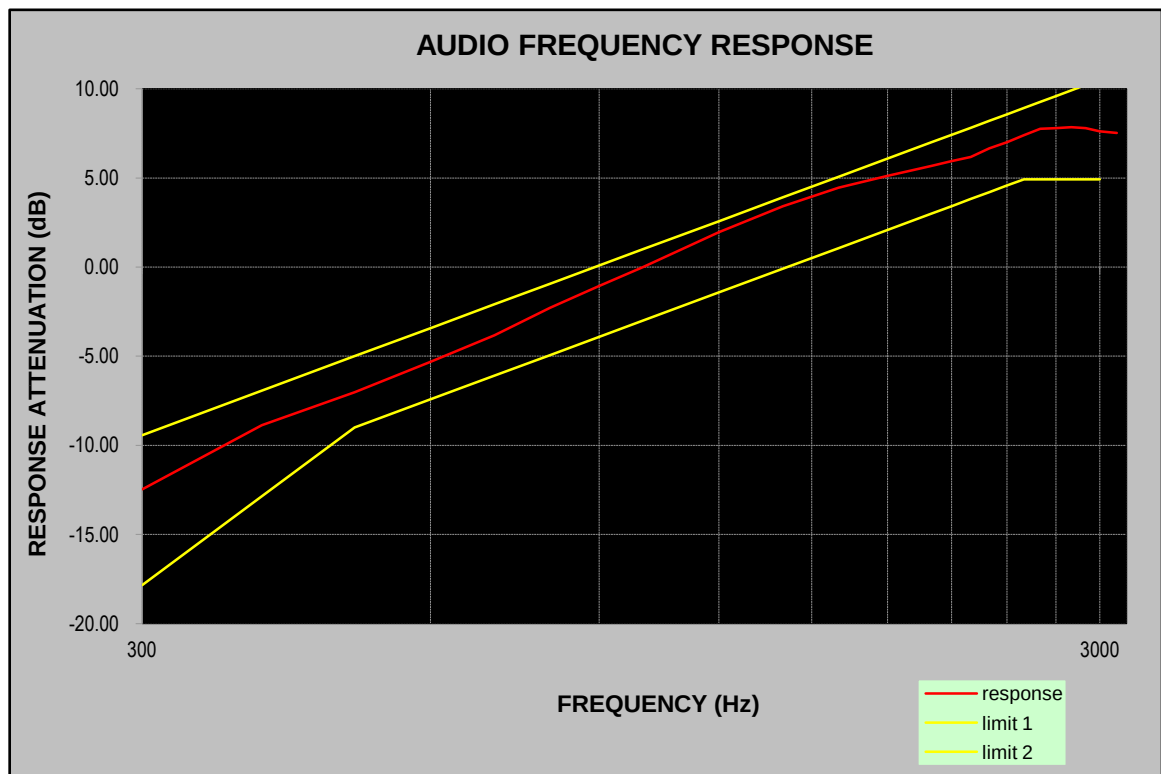


Carrier Frequency: 467.6375MHz separation:12.5kHz											
Audio Frequency (Hz)	Deviation (@+0dB) [kHz]		Deviation (@+5dB) [kHz]		Deviation (@+10dB) [kHz]		Deviation (@+15dB) [kHz]		Deviation (@+20dB) [kHz]		Limit [kHz]
	Peak+	Peak-	Peak+	Peak-	Peak+	Peak-	Peak+	Peak-	Peak+	Peak-	
300	0.403	0.370	0.671	0.612	1.081	1.056	1.862	1.845	2.253	2.223	2.500
1000	1.500	1.500	1.971	1.908	1.955	1.896	2.003	1.902	2.011	1.957	2.500
2500	1.912	1.877	1.921	1.880	1.947	1.887	1.931	1.851	1.913	1.872	2.500
3000	1.838	1.779	1.847	1.811	1.892	1.827	1.884	1.851	1.915	1.837	2.500

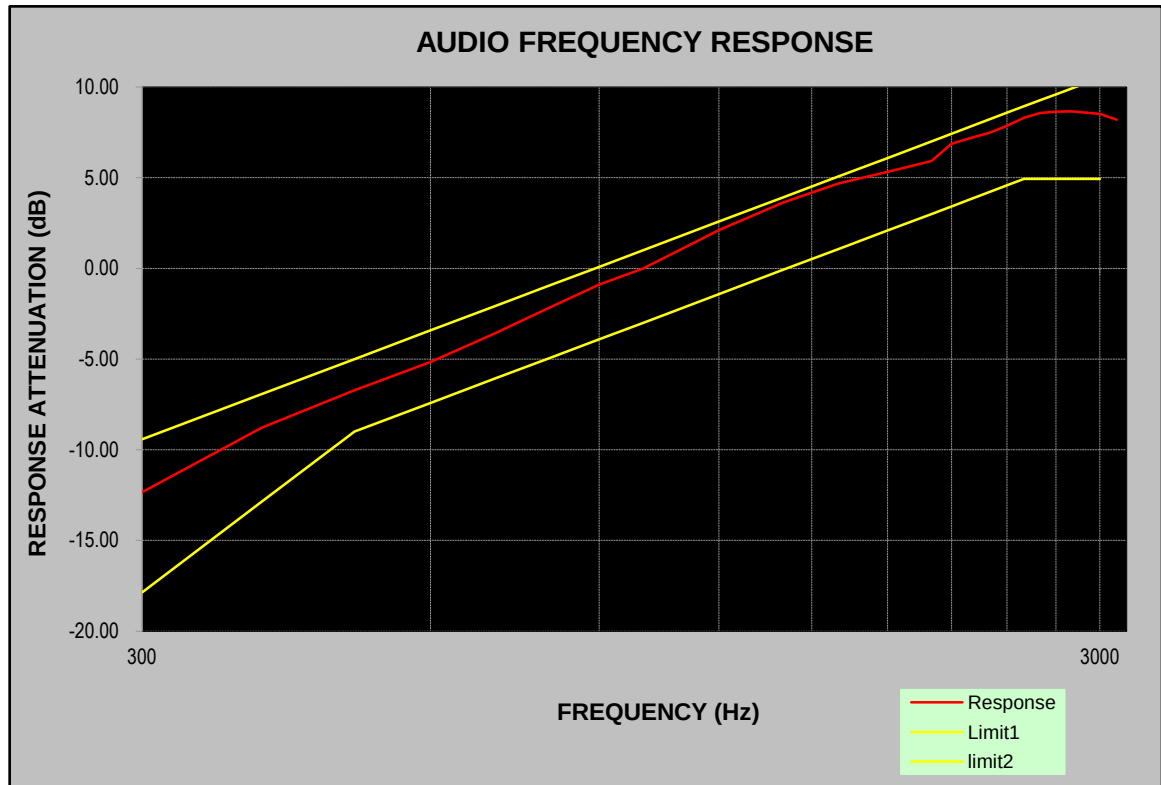


3.4.2 Audio Frequency Response

Test Frequency: 462.6375MHz			
Audio Frequency (Hz)	Response Attenuation (dB)	High Limit (dB)	Low Limit (dB)
300	-12.47	-9.4	-17.8
400	-8.87	-6.9	-12.9
500	-7.01	-5.0	-9.0
600	-5.32	-3.4	-7.4
700	-3.82	-2.1	-6.1
800	-2.27	-0.9	-4.9
900	-1.05	0.1	-3.9
1000	0.00	1.0	-3.0
1200	1.97	2.6	-1.4
1400	3.42	3.9	-0.1
1600	4.45	5.1	1.1
1800	5.12	6.1	2.1
2000	5.68	7.0	3.0
2100	5.94	7.4	3.4
2200	6.18	7.8	3.8
2300	6.66	8.2	4.2
2400	7.01	8.6	4.6
2500	7.41	8.9	4.9
2600	7.75	9.3	4.9
2700	7.80	9.6	4.9
2800	7.85	9.9	4.9
2900	7.80	10.2	4.9
3000	7.61	10.5	4.9
3125	7.52	-	-



Test Frequency: 467.6375MHz			
Audio Frequency (Hz)	Response Attenuation (dB)	High Limit (dB)	Low Limit (dB)
300	-12.32	-9.4	-17.8
400	-8.78	-6.9	-12.9
500	-6.71	-5.0	-9.0
600	-5.16	-3.4	-7.4
700	-3.58	-2.1	-6.1
800	-2.14	-0.9	-4.9
900	-0.90	0.1	-3.9
1000	0.00	1.0	-3.0
1200	2.10	2.6	-1.4
1400	3.63	3.9	-0.1
1600	4.68	5.1	1.1
1800	5.32	6.1	2.1
2000	5.92	7.0	3.0
2100	6.87	7.4	3.4
2200	7.20	7.8	3.8
2300	7.47	8.2	4.2
2400	7.87	8.6	4.6
2500	8.31	8.9	4.9
2600	8.57	9.3	4.9
2700	8.65	9.6	4.9
2800	8.65	9.9	4.9
2900	8.59	10.2	4.9
3000	8.51	10.5	4.9
3125	8.21	-	-



3.4.3 Authorized Bandwidth and Emission Mask

Test Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Emission Mask	Limit	Result
462.6375	5.282	≤ 12.5	Refer test plot	Refer test plot	Pass
467.6375	5.282	≤ 12.5	Refer test plot	Refer test plot	Pass

Note:

Emission bandwidth was based on calculation method instead of measurement.

Emission Designator: Per CFR 47 §2.201& §2.202, $BW = 2M + 2D$

For FM Mode (Channel Spacing: 12.5 kHz)

Emission Designator: 11K0F3E

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

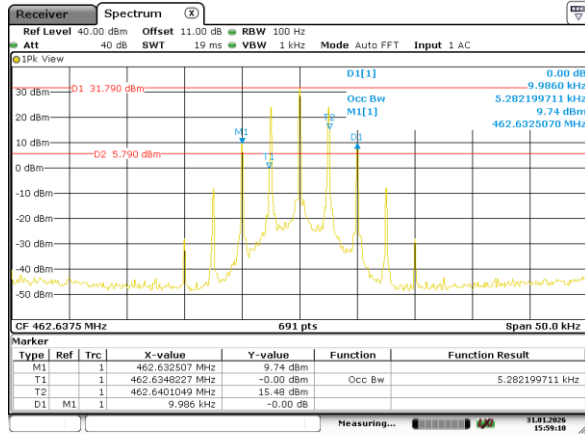
$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$$

F3E portion of the designator represents an FM voice transmission

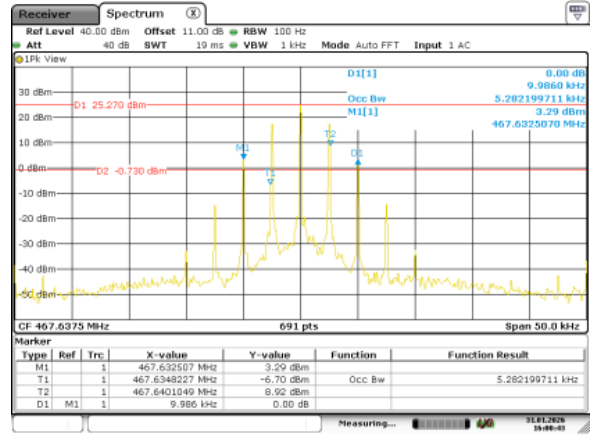
Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

BW

462.6375MHz

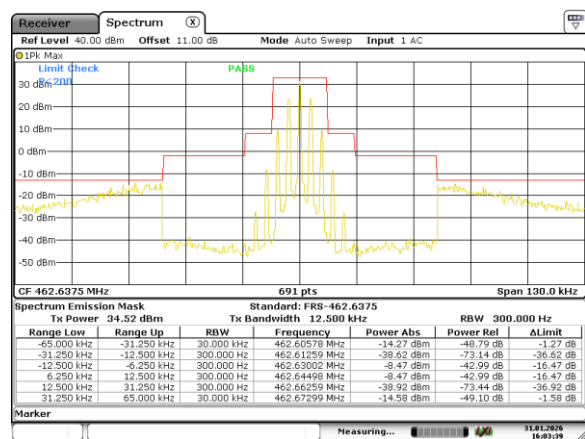


467.6375MHz

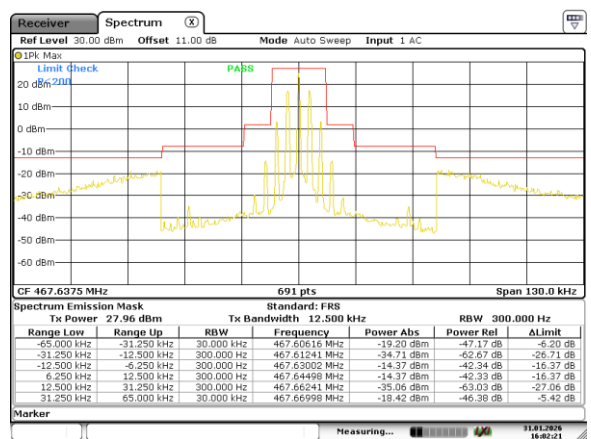


Emission Mask

462.6375MHz



467.6375MHz



3.4.4 Frequency stability

Test Item	Temperature (°C)	Voltage (Vdc)	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	limit (ppm)
Frequency Stability vs. Temperature& Voltage	-30	3.7	462.6375	462.637481	-0.04	≤2.5
	-20	3.7	462.6375	462.637496	-0.01	≤2.5
	-10	3.7	462.6375	462.637464	-0.08	≤2.5
	0	3.7	462.6375	462.637576	0.16	≤2.5
	10	3.7	462.6375	462.637684	0.4	≤2.5
	20	3.7	462.6375	462.637413	-0.19	≤2.5
	30	3.7	462.6375	462.637441	-0.13	≤2.5
	40	3.7	462.6375	462.637593	0.2	≤2.5
	50	3.7	462.6375	462.637515	0.03	≤2.5
	20	3.3	462.6375	462.637557	0.12	≤2.5
	20	4.2	462.6375	462.637558	0.13	≤2.5

Test Item	Temperature (°C)	Voltage (Vdc)	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	limit (ppm)
Frequency Stability vs. Temperature& Voltage	-30	3.7	467.6375	467.637573	0.16	≤2.5
	-20	3.7	467.6375	467.637562	0.13	≤2.5
	-10	3.7	467.6375	467.637587	0.19	≤2.5
	0	3.7	467.6375	467.637656	0.33	≤2.5
	10	3.7	467.6375	467.637586	0.18	≤2.5
	20	3.7	467.6375	467.63748	-0.04	≤2.5
	30	3.7	467.6375	467.637497	-0.01	≤2.5
	40	3.7	467.6375	467.637465	-0.07	≤2.5
	50	3.7	467.6375	467.637641	0.30	≤2.5
	20	3.3	467.6375	467.637521	0.04	≤2.5
	20	4.2	467.6375	467.637536	0.08	≤2.5

4 FCC §95.587 FRS Additional Requirements

Each FRS transmitter type must be designed to meet the following additional requirements.

(a) Transmit frequency capability. FRS transmitter types must not be capable of transmitting on any frequency or channel other than those listed in §95.563.

Judgment: Compliance, please refer the operating channels list which provide by applicant record in section 2.1 of report

(b) Antenna. The antenna of each FRS transmitter type must meet the following requirements.

(1) The antenna must be a non-removable integral part of the FRS transmitter type.

(2) The gain of the antenna must not exceed that of a half-wave dipole antenna.

(3) The antenna must be designed such that the electric field of the emitted waves is vertically polarized when the unit is operated in the normal orientation.

Judgment: Compliance, the EUT has an integral vertically polarized antenna and the antenna gain is -2dBi, please refer antenna report[#] and EUT photo

(c) Digital data transmissions. FRS transmitter types having the capability to transmit digital data must be designed to meet the following requirements.

(1) FRS units may transmit digital data containing location information, or requesting location information from one or more other FRS or GMRS units, or containing a brief text message to another specific FRS or GMRS unit or units.

(2) Digital data transmissions may be initiated by a manual action or command of the operator or on an automatic or periodic basis, and FRS units may be designed to automatically respond with location data upon receiving an interrogation request from another

(3) Digital data transmissions must not exceed one second in duration.

(4) Digital data transmissions must not be sent more frequently than one digital data transmission within a thirty-second period, except that an FRS unit may automatically respond to more than one interrogation request received within a thirty-second period.

Judgment: Not Applicable, no digital modulation function.

(d) Packet mode. FRS transmitter types must not be capable of transmitting data in the store-and-forward packet operation mode.

Judgment: Not Applicable, no digital modulation function.

(e) Effective September 30, 2019, no person shall manufacture or import hand-held portable radio equipment capable of operating under this subpart (FRS) and other licensed or licensed-by-rule services in this chapter (part 15 unlicensed equipment authorizations are permitted if consistent with part 15 rules).

Judgment: Compliance, the devices are not include transmitter(s) (or transmitting modes) operating in other licence and licence-exempt services.

5 Test Setup Photo

Please refer to the attachment 2605P43333E Test Setup photo.

6 E.U.T Photo

Please refer to the attachment 2605P43333E External photo and 2605P43333E Internal photo.

---End of Report---