



RF MEASUREMENT REPORT

FCC ID: WVTWOUXUN29

Applicant: Quanzhou Wouxun Electronics Co., Ltd.

Product: Two-way Radio (CB radio)

Model No.: KG-S72C

Serial No.: KG-S72CX, KG-S72C-GY, KG-S72C-OR, KG-S72C Plus, KG-S72C Limited Edition, KG-S73C, KG-S73CX

Serial Model No.: WOUXUN

FCC Classification: TNB - Licensed Non-Broadcast Station Transmitter

FCC Rule Part(s): FCC Part 95 Subpart D

Test Date: December 06, 2021 ~ March 03, 2022

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI/TIA-603-E:2016, ANSI/EIA/TIA-382-A and ANSI C63.26. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2111RSU075-U2	Rev. 01	Initial Report	03-12-2022	Valid

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1.1. Applicant

Jiangnan High Technology Industry Park, No.928 Nanhuan Road, Quanzhou, Fujian, China

Quanzhou Wouxun Electronics Co., Ltd.

Jiangnan High Technology Industry Park, No.928 Nanhuan Road, Quanzhou, Fujian, China

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
	CNAS: L10551 ISED: CN0001
☐	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 FCC: CN1284
	CNAS: L10551 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725 FCC: 291082, TW3261
	ISED: TW3261

1.4. Product Information

Product Name	Two-way Radio (CB radio)
Model No.	KG-S72C
Serial No.	KG-S72CX, KG-S72C-GY, KG-S72C-OR, KG-S72C Plus, KG-S72C Limited Edition, KG-S73C, KG-S73CX
EUT Identification No.:	20220124Sample#01, 20211122Sample#13
Frequency Range	26.965MHz ~ 27.405MHz
Working Voltage	7.4VDC
Type of Modulation	AM&FM
Antenna Type	SMA-Male
Antenna Gain	1.5 dBi
Accessory	
Charger	Mode: 1A20KG-15 Input: DC 12V-DC Output: 8.4V DC 450mA
Battery	7.4v 2000mAh(14.8Wh)
Remark:	
- The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. - The difference between the above models is plastic enclosure with different colors and shapes.	

1.5. Operating Frequency and Channel List

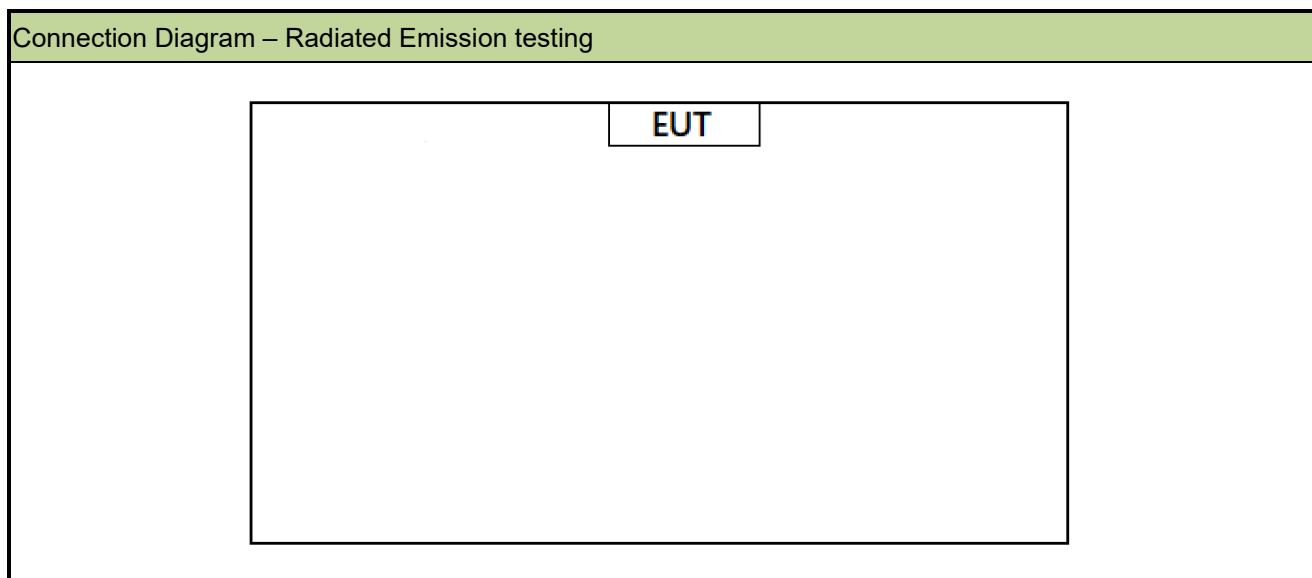
FRS Channel	FRS Frequency/MHz	FRS Channel	FRS Frequency
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

2. Test Configuration

2.1. Test Mode

Test Mode	Mode 1: Transmit at channel 26.965MHz
	Mode 2: Transmit at channel 27.185MHz
	Mode 3: Transmit at channel 27.405MHz

2.2. Test System Connection Diagram



2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC Part 95 Subpart A and Subpart D

FCC Part 2

ANSI/TIA-603-E-2016

ANSI/EIA/TIA-382-A

ANSI C63.26 - 2015

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022/12/29	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2022/8/5	WZ-AC1
Thermohygrometer	Yuhaze	HTC-2	MRTSUE06184	1 year	2022/8/10	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2022/4/29	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2022/6/28	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022/12/29	WZ-AC1
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2022/10/10	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2022/6/28	WZ-TR3
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2022/4/13	WZ-SR5
Audio Analyzer	R&S	UPV	MRTSUE06357	1 year	2022/5/18	WZ-SR5
Modulation Analyzer	HP	HP8901A	MRTSUE06098	1 year	2022/9/12	WZ-SR5

Software	Version	Function
EMI Software	V3	EMI Test Software

4. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.13dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 0.28%

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
§95.967, §2.1046	RF Output Power	Conducted	Pass
§95.965, §2.1055	Frequency Stability		Pass
§95.975, §2.1047	Modulation Characteristics		Pass
§95.973, §2.1049	Occupied Bandwidth		Pass
§95.979, §2.1051	Conducted Spurious Emission		Pass
§95.979, §2.1049	Emission Mask		Pass
§95.979, §2.1053	Radiated Unwanted Emission	Radiated	Pass

Remark:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

5.2. RF Output Power Measurement

5.2.1. Test Limit

Each CBRS transmitter type must be designed such that the transmitter power cannot exceed the following limits:

(a) When transmitting amplitude modulated (AM) voice signals or frequency modulated (FM) voice signals, the mean carrier power must not exceed 4 Watts.

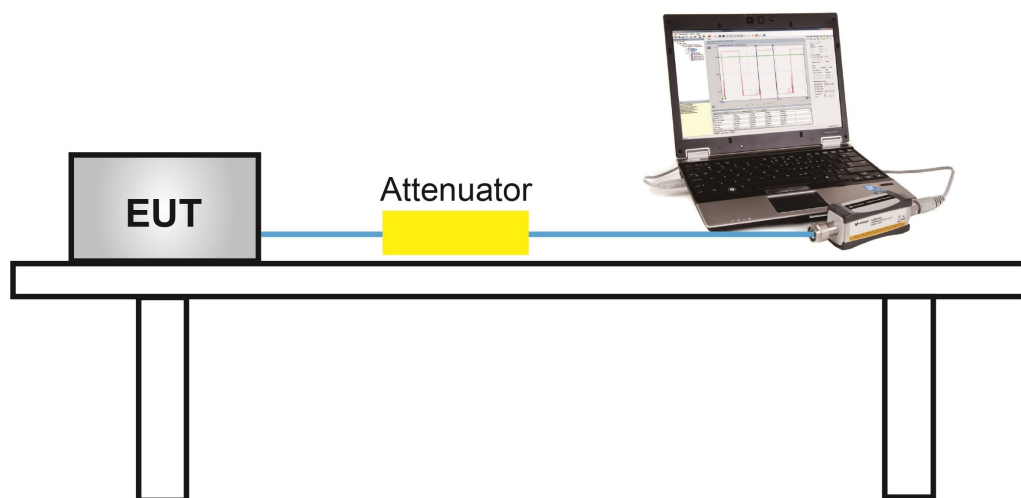
5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.2

5.2.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.

5.3. Frequency Stability Measurement

5.3.1. Test Limit

Each CBRS transmitter type must be designed such that the transmit carrier frequency (or in the case of SSB transmissions, the reference frequency) remains within 50 parts-per-million of the channel center frequencies specified in § 95.963 under all normal operating conditions.

5.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.6

5.3.3. Test Setting

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to High. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the Low temperature reached.

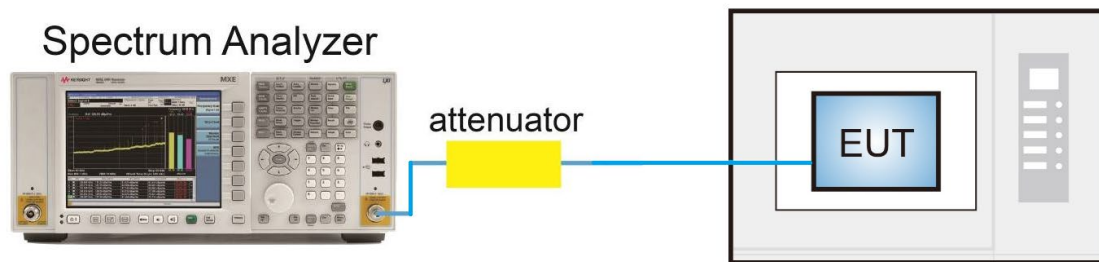
Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.

5.4. Modulation Characteristics Measurement

5.4.1. Test Limit

Each CBRS transmitter type must be designed such that the modulation characteristics are in compliance with the rules in this section.

(a) When emission type A3E is transmitted with voice modulation, the modulation percentage must be at least 85%, but not more than 100%.

(b) When emission type A3E is transmitted by a CBRS transmitter having a transmitter output power of more than 2.5 W, the transmitter must contain a circuit that automatically prevents the modulation percentage from exceeding 100%.

(c) When emission type F3E is transmitted the peak frequency deviation shall not exceed ± 2 kHz.

5.4.2. Test Procedure

ANSI/TIA-603-E-2016 Clause 2.2.3.2 & 2.2.6.2.1

ANSI/EIA/TIA-382-A Clause 24.2.2 & 25.2

5.4.3. Test Setting

Audio Frequency Response - AM

1. Connect the equipment following the below figure
2. The audio input signal shall be adjusted to obtain 50% modulation at the maximum audio frequency response of the transmitter and this point shall be taken as the 0dB reference level.
3. Set the audio frequency generator to the desired test frequency between 100 Hz and 10000Hz and record the input levels necessary to maintain a constant 50% modulation.
4. Graph the audio level in dB relative the 0dB reference level as a function of the modulating frequency.

Audio Frequency Response - FM

1. Connect the equipment following the below figure
2. Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 50 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
3. Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
4. Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
5. Set the test receiver to measure rms deviation and record the deviation reading.
6. Record the Audio Generator output level as V_{REF} .
7. Set the audio frequency generator to the desired test frequency between 300 Hz and 3000Hz.
8. Vary the audio frequency generator output level until the deviation reading(that was recorded in step 5) is obtained
9. Record the output level as V_{FREQ} .
10. Calculate the audio frequency response at the present frequency as:
$$\text{Audio Frequency Response} = 20 \cdot \log_{10}(V_{FREQ} / V_{REF})$$
11. Repeat steps 7 through 10 for all the desired test frequencies.

Modulation Limiting Response - AM

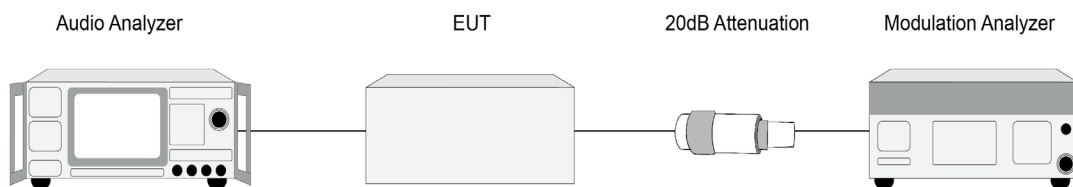
1. Connect the equipment following the below figure
2. The audio input signal shall be adjusted to obtain 50% modulation at the maximum audio frequency response of the transmitter and this point shall be taken as the 0dB reference level.
3. Increment the audio signal level to 40dB above the reference level and record the modulation level (%).
4. Repeat the measurements using a 400Hz and a 2500Hz sinusoidal audio signal. Record the modulation level (%). Perform for both positive and negative modulation.

Modulation Limiting Response - FM

1. Connect the equipment following the below figure
2. Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 0.25 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
3. Apply a 1000 Hz tone and adjust the audio frequency generator to produce 60% of the rated system deviation.

4. Increase the level from the audio frequency generator by 20dB in one step.
5. Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio level.
6. With the level from the audio frequency generator held constant at the level (obtained in step 4), slowly vary the audio frequency from 300Hz to 3000Hz and observe the steady-state deviation. Record the maximum deviation.
7. Set the test receiver to measure peak negative deviation and repeat steps 3 through 6

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.

5.5. Occupied Bandwidth Measurement

5.5.1. Test Limit

Each CBRS transmitter type must be designed such that the occupied bandwidth does not exceed the authorized bandwidth for the emission type under test.

(a) AM and FM. The authorized bandwidth for emission types A3E and F3E is 8 kHz.

(b) SSB. The authorized bandwidth for emission types J3E, R3E, and H3E is 4 kHz.

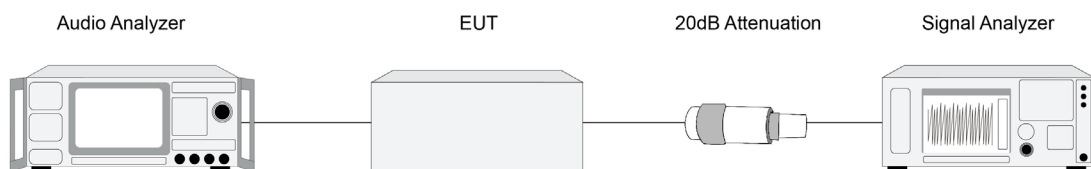
5.5.2. Test Procedure

ANSI C63.26-2015 - Section 5.4

5.5.3. Test Setting

1. Span = 1.5 times to 5 times the OBW
2. Set RBW = 1% to 5% the OBW
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace was allowed to stabilize
8. Use the instrument's 99% OBW function to measure

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.

5.6. Conducted Spurious Emission and Emissions Mask Measurement

5.6.1. Test Limit

The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) as specified in the applicable paragraphs listed in the following table:

Emission Type	Paragraph
A3E, F3E	(1), (3), (5), (6)
H3E, J3E, R3E	(2), (4), (5), (6)
(1) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency; (2) 25 dB in the frequency band 2 kHz to 6 kHz removed from the channel center frequency; (3) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency; (4) 35 dB in the frequency band 6 kHz to 10 kHz removed from the channel center frequency; (5) $53 + 10 \log (P)$ dB in any frequency band removed from the channel center frequency by more than 250% of the authorized bandwidth. (6) 60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.	

5.6.2. Test Procedure

ANSI/TIA-603-E-2016 Clause 2.2.13

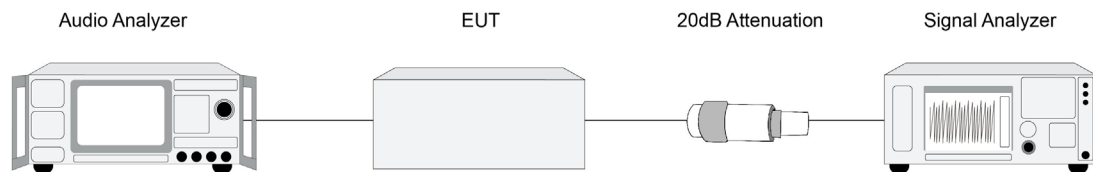
ANSI/EIA/TIA-382-A Clause 23.2

5.6.3. Test Setting

1. Connect the EUT antenna output port to the spectrum analyzer via an appropriate RF cable.
2. Analyzer was set to the center frequency of the EUT channel under investigation
3. Span ≥ 1.5 times the OBW
4. Set the RBW as required by applicable regulations.
5. VBW to a value $\geq 3 \times$ RBW
6. Detector = Peak

- 7. Sweep time = auto couple
- 8. Trace mode = max hold
- 9. Trace was allowed to stabilize

5.6.4. Test Setup



5.6.5. Test Result

Refer to Appendix A.

5.7. Radiated Unwanted Emissions Measurement

5.7.1. Test Limit

The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) as specified in the applicable paragraphs listed in the following table:

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 75.3dB μ V/m.

Emission Type	Paragraph
A3E, F3E	(1), (3), (5), (6)
H3E, J3E, R3E	(2), (4), (5), (6)
(2) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency; (2) 25 dB in the frequency band 2 kHz to 6 kHz removed from the channel center frequency; (3) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency; (4) 35 dB in the frequency band 6 kHz to 10 kHz removed from the channel center frequency; (5) $53 + 10 \log (P)$ dB in any frequency band removed from the channel center frequency by more than 250% of the authorized bandwidth. (6) 60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.	

5.7.2. Test Procedure

ANSI/EIA/TIA-382-A Clause 22.2

ANSI/TIA-603-E-2016 Clause 2.2.12

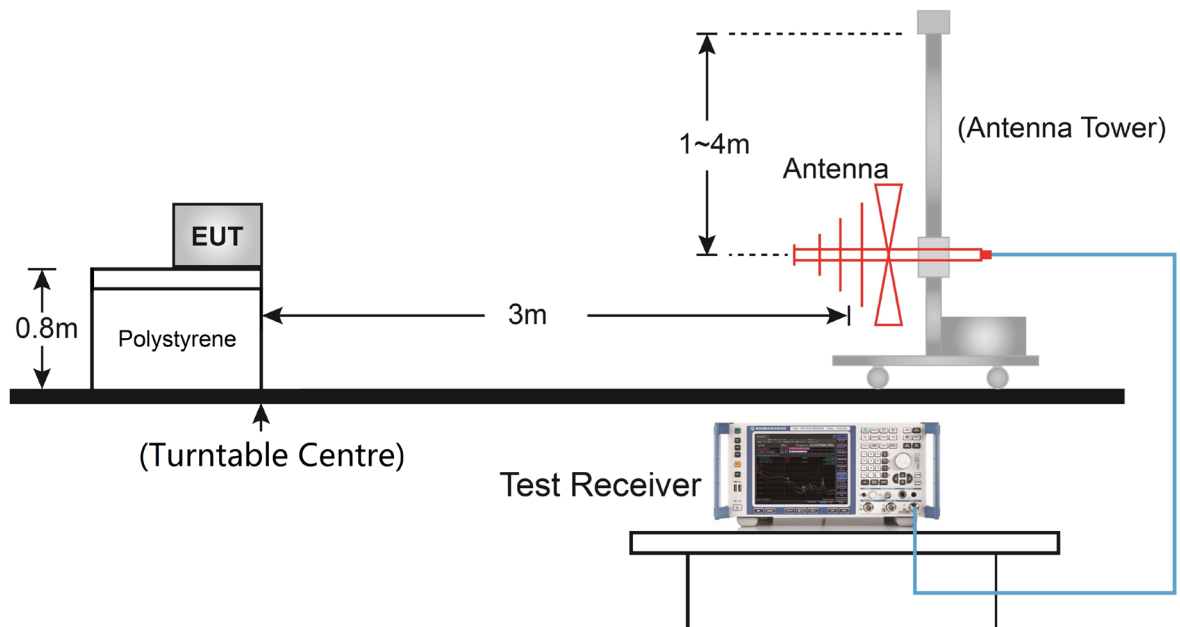
5.7.3. Test Setting

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold

6. The trace was allowed to stabilize

5.7.4. Test Setup

30MHz ~ 1GHz Test Setup:



5.7.5. Test Result

Refer to Appendix A.

Appendix A- Test Result

A.1 RF Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2021/12/06-2022/02/25		

Channel No.	Frequency (MHz)	AM Measured Output Power (dBm)	FM Measured Output Power (dBm)	AM Measured Output Power (W)	FM Measured Output Power (W)	Limit (W)	Result
1	26.965	31.14	35.51	1.30	3.56	4.00	Pass
19	27.185	31.11	35.45	1.29	3.51	4.00	Pass
40	27.405	30.18	35.36	1.04	3.44	4.00	Pass

A.2 Frequency Stability Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2022/02/11		

Frequency Stability versus input normal voltage

Voltage (V)	Temp (°C)	Frequency Tolerance (ppm)	
		Reference Frequency: 26.965MHz	Limit (ppm)
7.4	-30	-0.19	±50
	-20	-0.26	±50
	-10	-0.26	±50
	0	-0.22	±50
	+ 10	-0.26	±50
	+ 20	-0.26	±50
	+ 30	-0.26	±50
	+ 40	-0.22	±50
	+ 50	-0.19	±50

Frequency Stability versus input battery endpoint voltage

Voltage (V)	Temp (°C)	Frequency Tolerance (ppm)	
		Reference Frequency: 464.55MHz	Limit (ppm)
6.1	20	-0.15	±50

Note: Battery terminal voltage is declared and specified by the manufacturer.

A.3 Modulation Characteristics Test Result

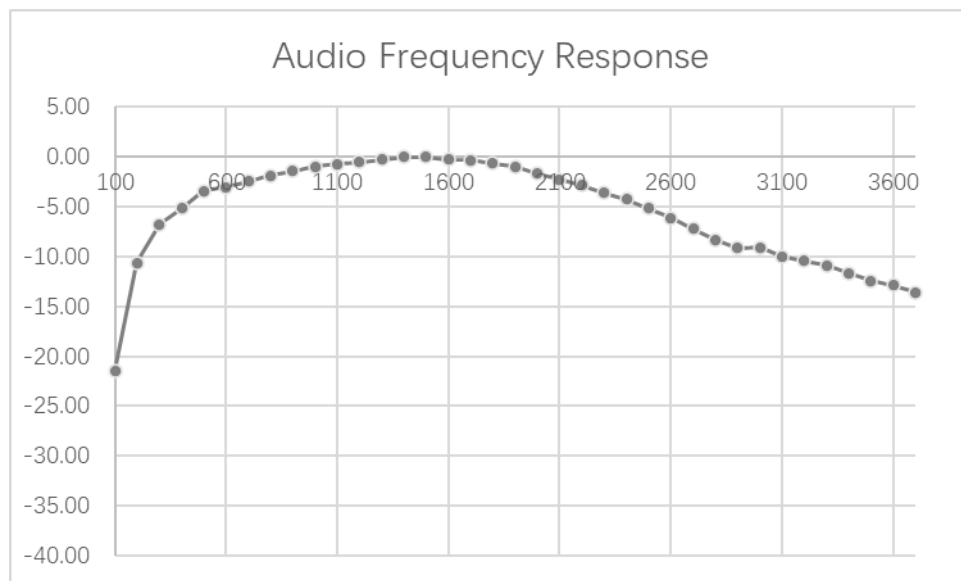
Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2022/01/18	Test Item	Audio Frequency Response
Test Mode	AM		

Frequency (Hz)	AM level (with 50% modulation percentage) (mV)	AM level (with 50% modulation percentage) (dB)
100	195.0	-21.45
200	56.0	-10.61
300	36.0	-6.78
400	30.0	-5.19
500	24.5	-3.43
600	23.5	-3.07
700	22.0	-2.50
800	20.5	-1.89
900	19.5	-1.45
1000	18.5	-0.99
1100	18.0	-0.76
1200	17.5	-0.51
1300	17.0	-0.26
1400	16.5	0.00
1500	16.5	0.00
1600	17.0	-0.26
1700	17.2	-0.36
1800	17.8	-0.66
1900	18.5	-0.99
2000	20.0	-1.67
2100	21.5	-2.30
2200	23.0	-2.88
2300	25.0	-3.61
2400	27.0	-4.28
2500	30.0	-5.19
2600	33.5	-6.15
2700	38.0	-7.25
2800	43.0	-8.32

Frequency (Hz)	AM level (with 50% modulation percentage) (mV)	AM level (with 50% modulation percentage) (dB)
2900	47.5	-9.18
3000	47.0	-9.09
3100	52.0	-9.97
3200	55.0	-10.46
3300	58.0	-10.92
3400	63.0	-11.64
3500	69.0	-12.43
3600	73.0	-12.92
3700	379.0	-13.60
10000	6000.0	-51.21

Note1: Normalize to 1400Hz

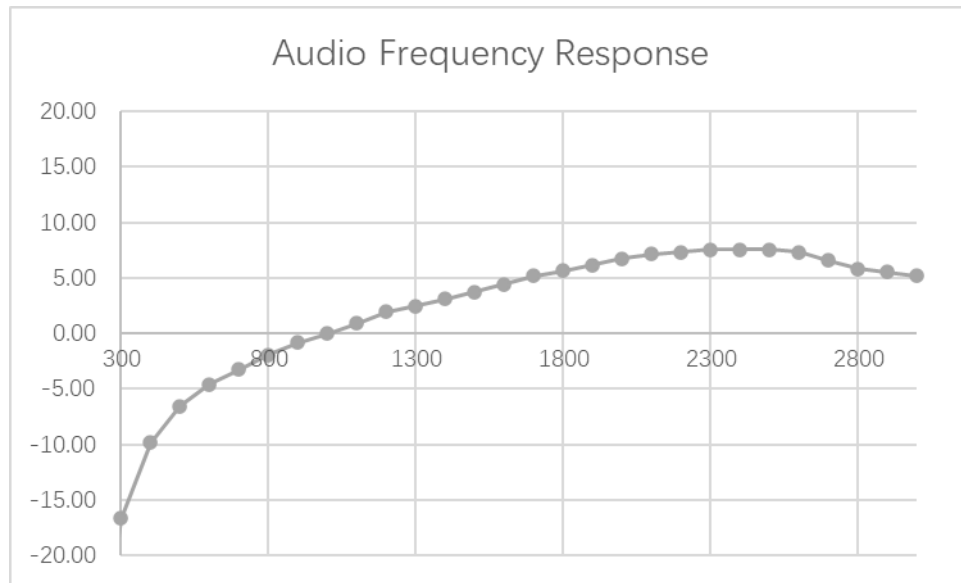
Note2: 50% modulation could not be achieved above 3700Hz



Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2022/01/18	Test Item	Audio Frequency Response
Test Mode	FM		

Frequency (Hz)	FM level (with 20% deviation) (mV)	FM level (with 20% deviation) (dB)
300	68.0	-16.65
400	31.0	-9.83
500	21.2	-6.53
600	17.0	-4.61
700	14.5	-3.23
800	12.5	-1.94
900	11.0	-0.83
1000	10.0	0.00
1100	9.0	0.92
1200	8.0	1.94
1300	7.5	2.50
1400	7.0	3.10
1500	6.5	3.74
1600	6.0	4.44
1700	5.5	5.19
1800	5.2	5.68
1900	4.9	6.20
2000	4.6	6.74
2100	4.4	7.13
2200	4.3	7.33
2300	4.2	7.54
2400	4.2	7.54
2500	4.2	7.54
2600	4.3	7.33
2700	4.7	6.56
2800	5.1	5.85
2900	5.3	5.51
3000	5.5	5.19

Note: Normalize to 1000Hz



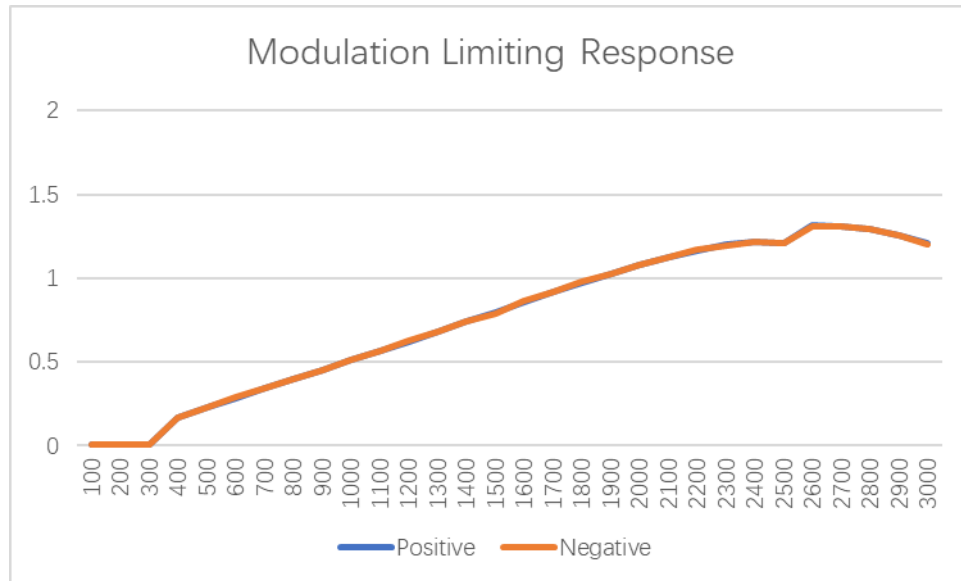
Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2022/01/18	Test Item	Modulation Limiting Response
Test Mode	AM		

Frequency (Hz)	AM level (mV)	Positive Modulation percentage	Negative Modulation percentage	Modulation percentage Limit
400	1650	95.8%	94.6%	85% ~ 100%
1400(Ref)	1650	96.4%	95.1%	85% ~ 100%
2500	1650	97.0%	95.6%	85% ~ 100%

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2022/01/18	Test Item	Modulation Limiting Response
Test Mode	FM		

Frequency (Hz)	Frequency Deviation(kHz)	
	Positive	Negative
100	0.008	0.008
200	0.007	0.008
300	0.008	0.008
400	0.172	0.171
500	0.228	0.228
600	0.286	0.287
700	0.342	0.343
800	0.399	0.398
900	0.454	0.455
1000	0.510	0.512
1100	0.567	0.565
1200	0.623	0.624
1300	0.683	0.682
1400	0.741	0.741
1500	0.793	0.791
1600	0.860	0.861
1700	0.918	0.915
1800	0.974	0.976
1900	1.028	1.026
2000	1.078	1.082
2100	1.128	1.127
2200	1.167	1.168
2300	1.198	1.194
2400	1.214	1.215
2500	1.212	1.212
2600	1.313	1.311
2700	1.309	1.310
2800	1.292	1.290
2900	1.255	1.256
3000	1.206	1.205

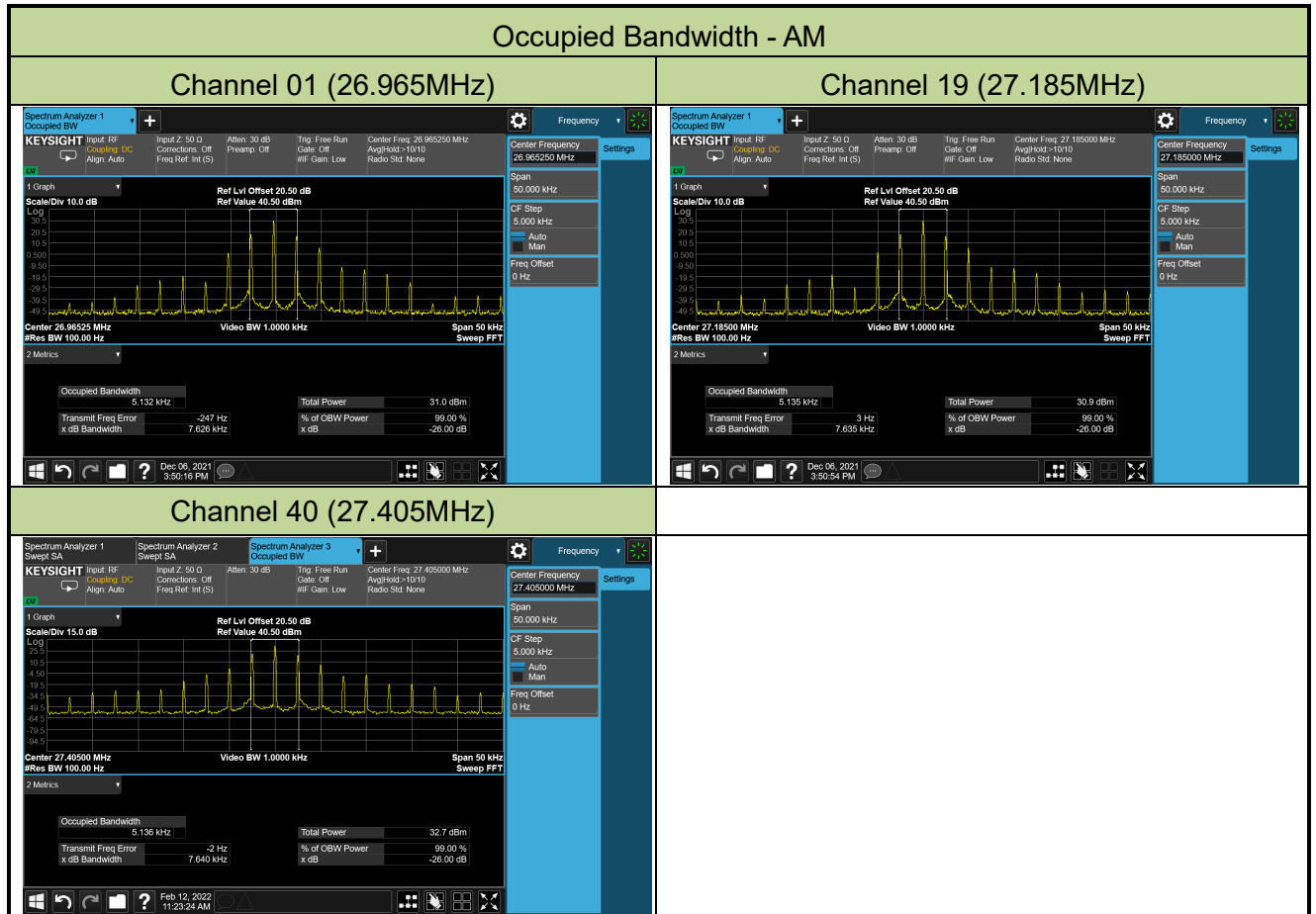
Note: Audio Analyzer output level is 12mV

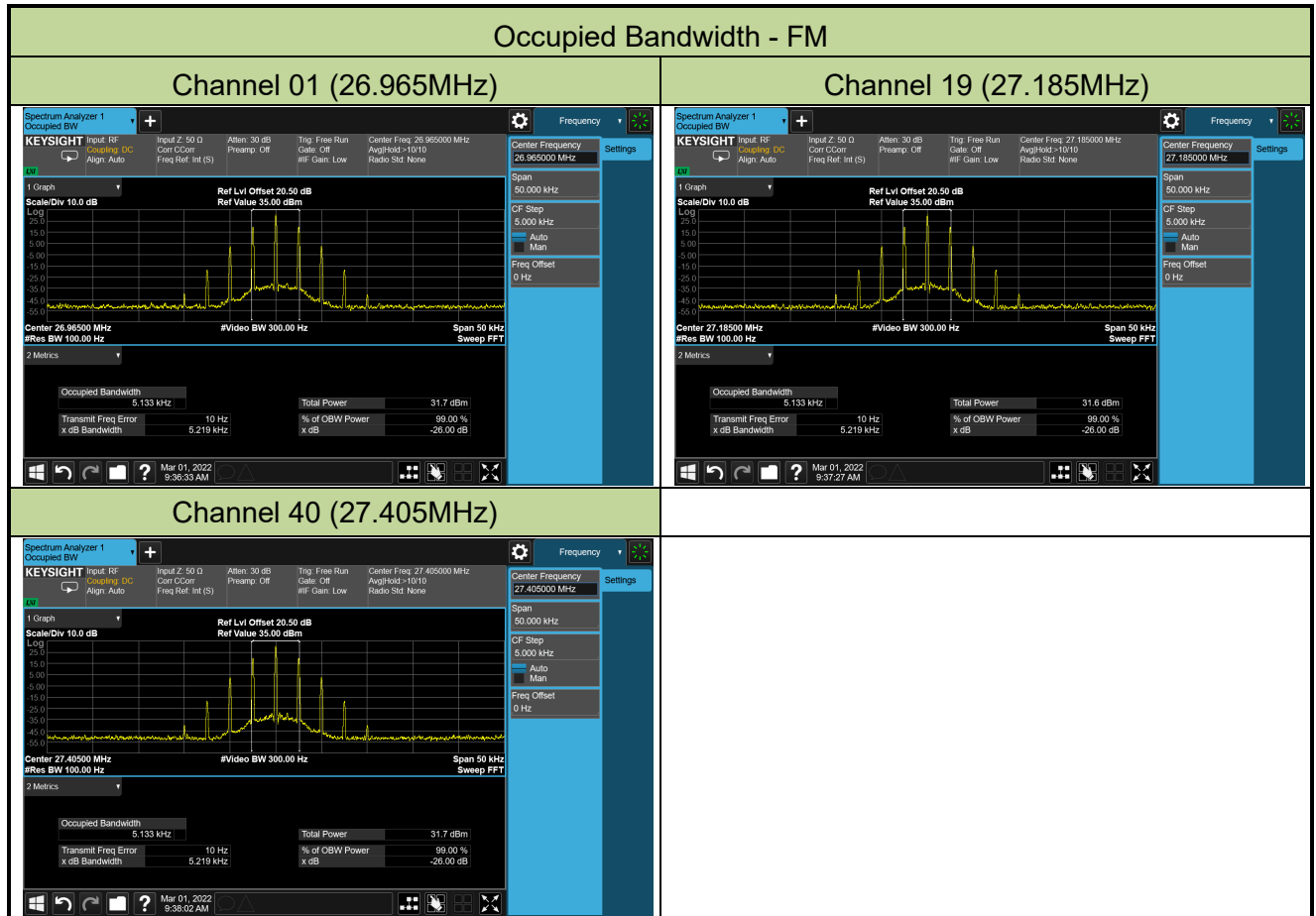


A.4 Occupied Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2021/12/06-2022/03/01		

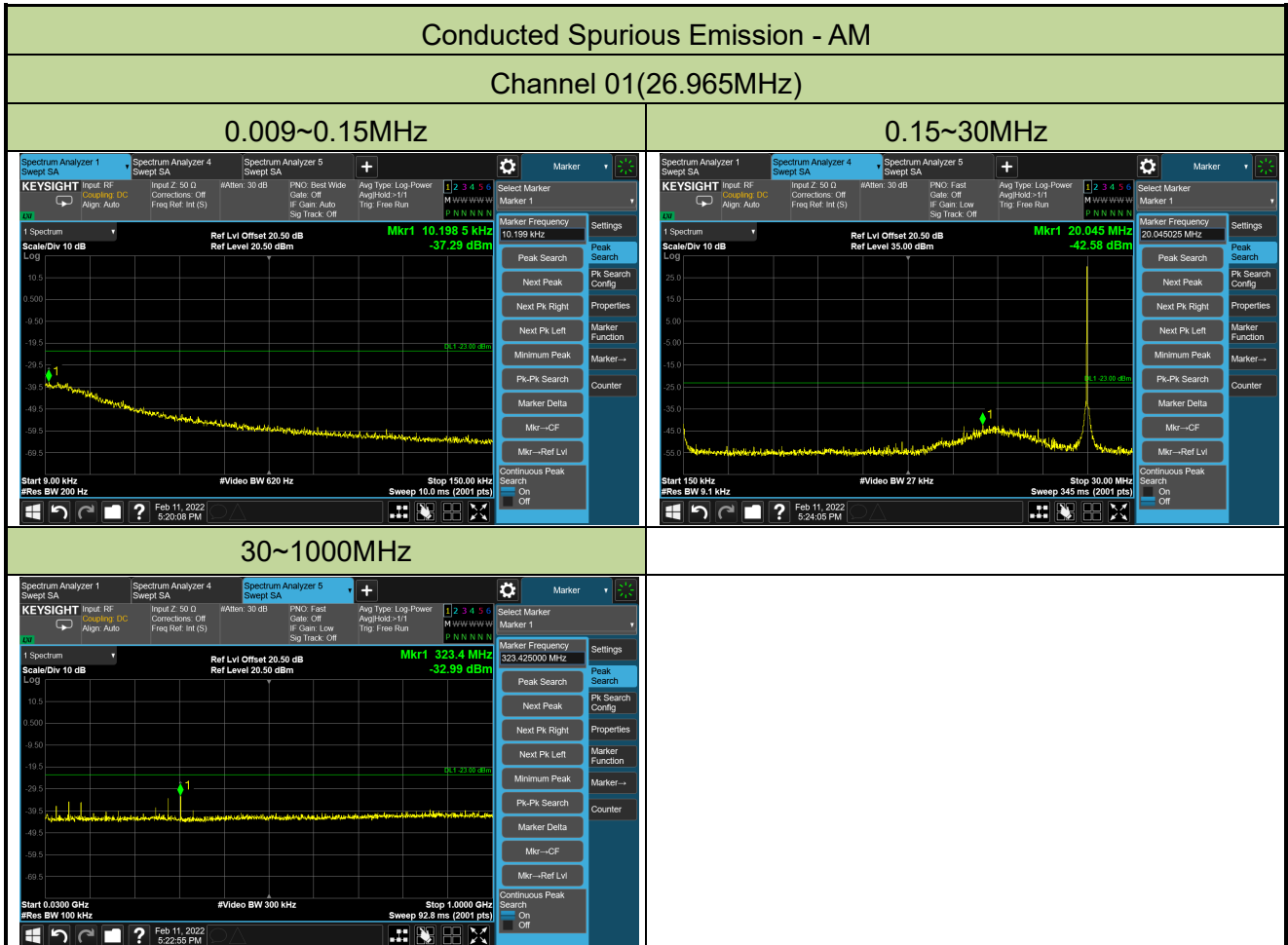
Channel No.	Modulation	Frequency (MHz)	99% Bandwidth (MHz)	Limit (KHz)	Result
01	AM	26.965	5.132	≤ 8	Pass
19		27.185	5.135	≤ 8	Pass
40		27.405	5.136	≤ 8	Pass
01	FM	26.965	5.133	≤ 8	Pass
19		27.185	5.133	≤ 8	Pass
40		27.405	5.133	≤ 8	Pass





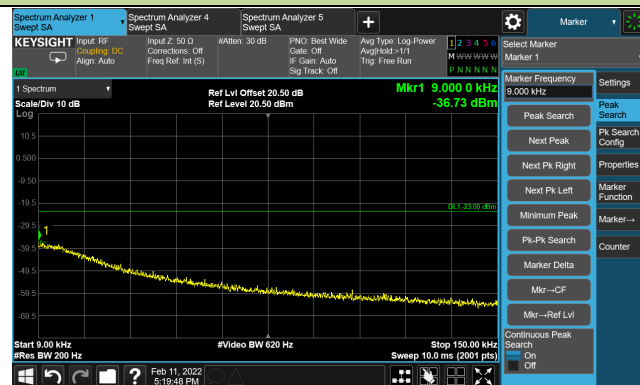
A.5 Conducted Spurious Emission and Emission Mask Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2022/02/11-2022/03/01		

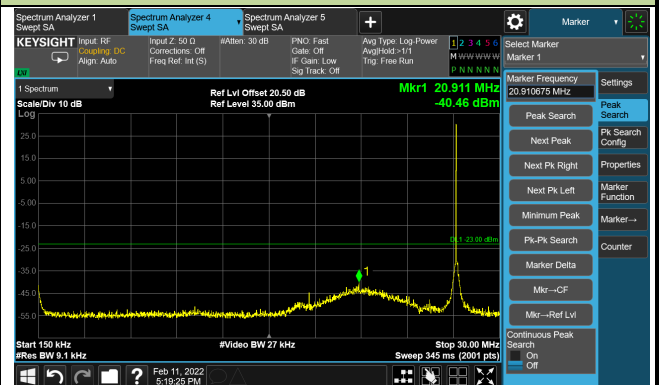


Channel 19(27.185MHz)

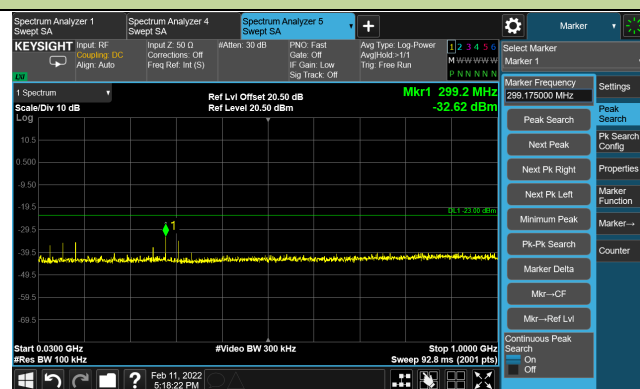
0.009~0.15MHz



0.15~30MHz

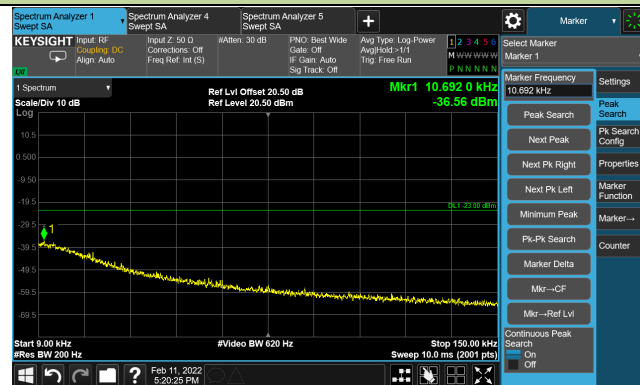


30~1000MHz

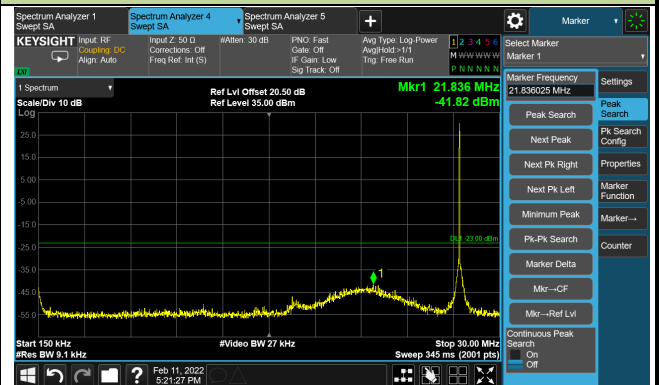


Channel 40(27.405MHz)

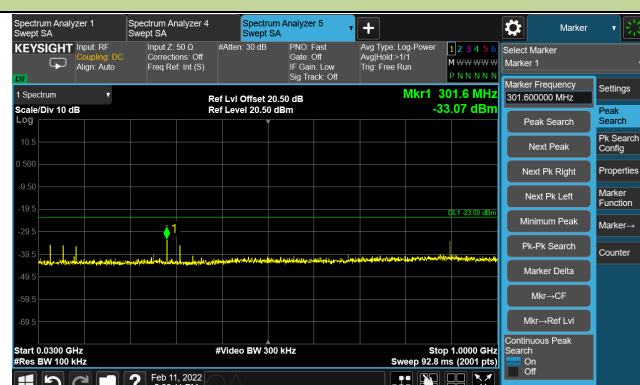
0.009~0.15MHz



0.15~30MHz



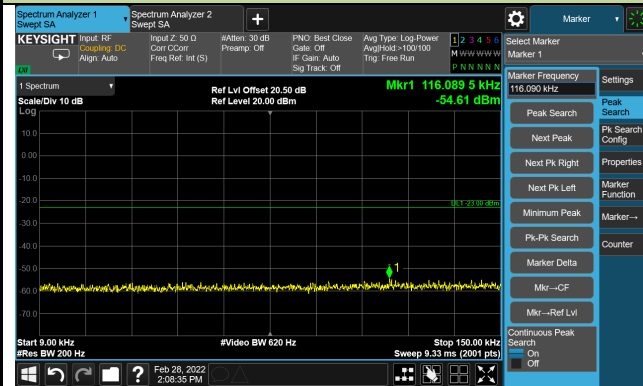
30~1000MHz



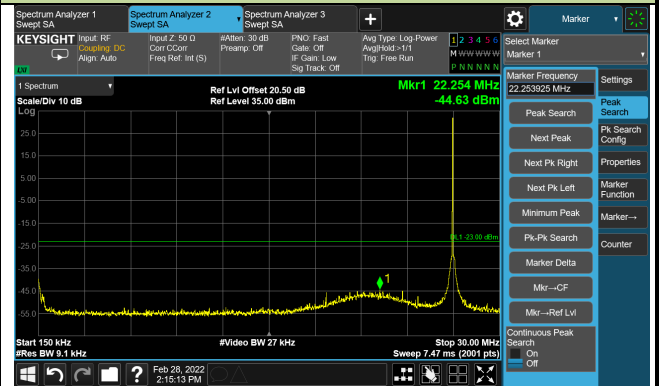
Conducted Spurious Emission - FM

Channel 01(26.965MHz)

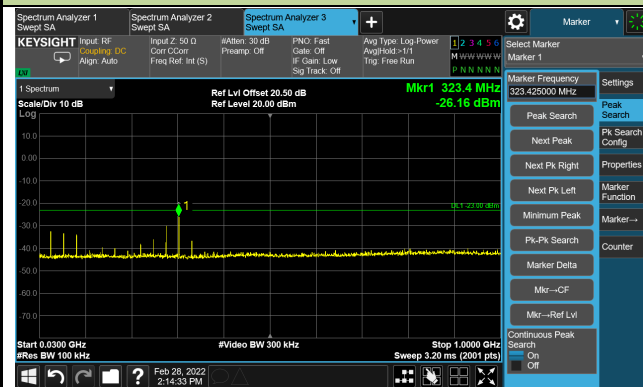
0.009~0.15MHz



0.15~30MHz

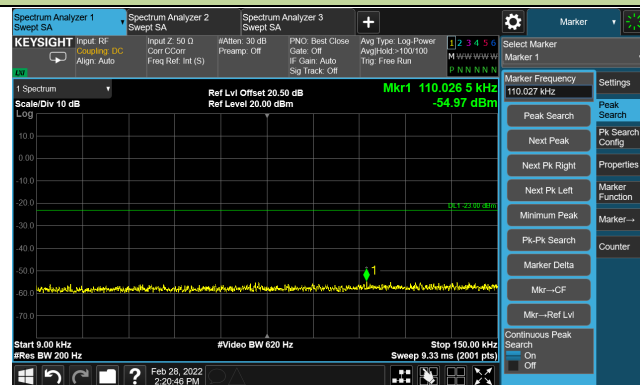


30~1000MHz

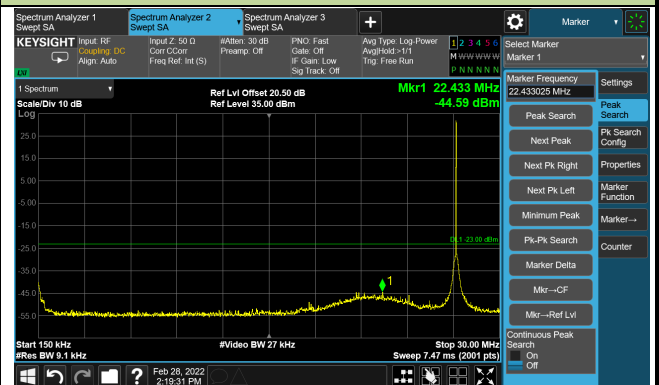


Channel 19(27.185MHz)

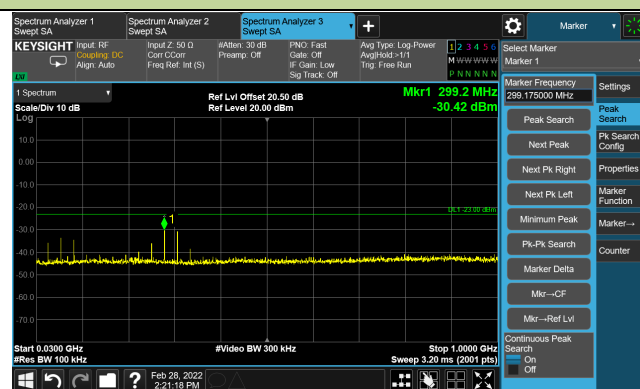
0.009~0.15MHz



0.15~30MHz

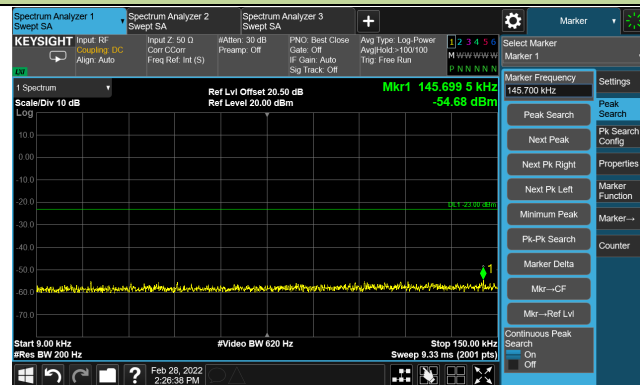


30~1000MHz

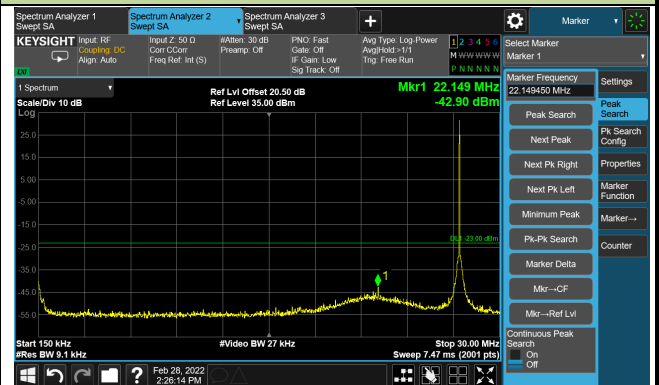


Channel 40(27.405MHz)

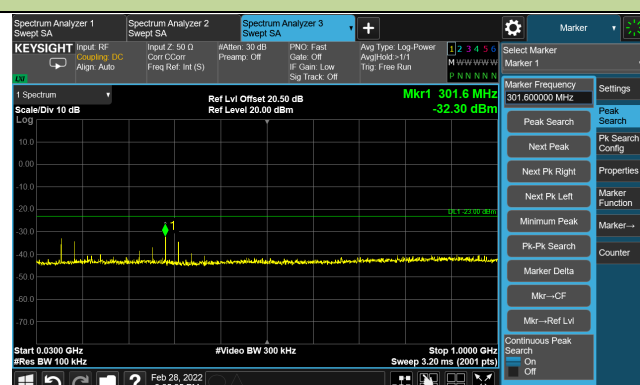
0.009~0.15MHz



0.15~30MHz

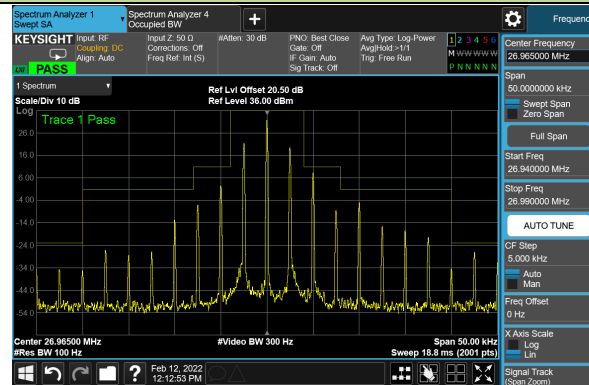


30~1000MHz

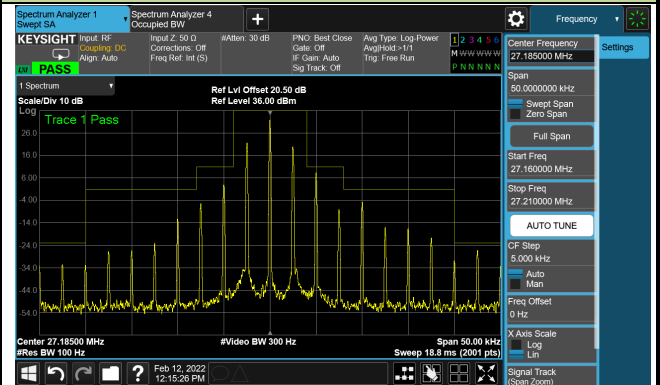


Emission Mask - AM

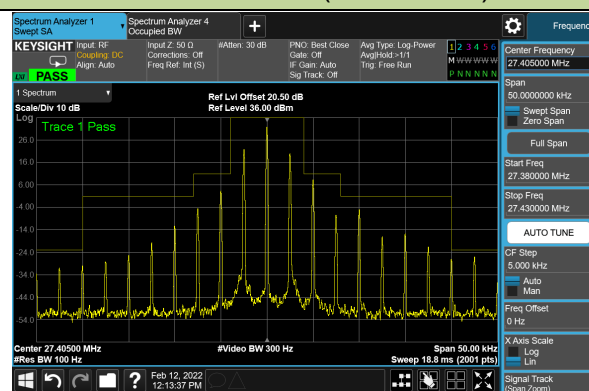
Channel 01 (26.965MHz)



Channel 19 (27.185MHz)

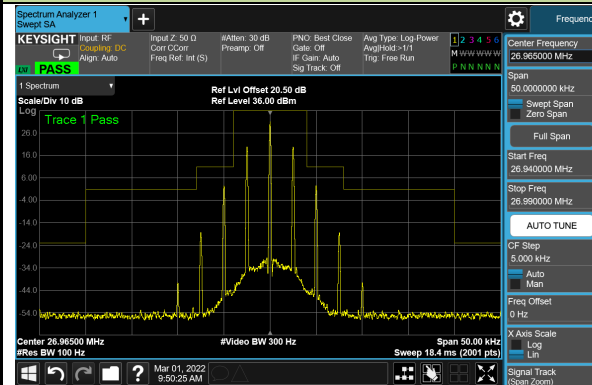


Channel 40 (27.405MHz)

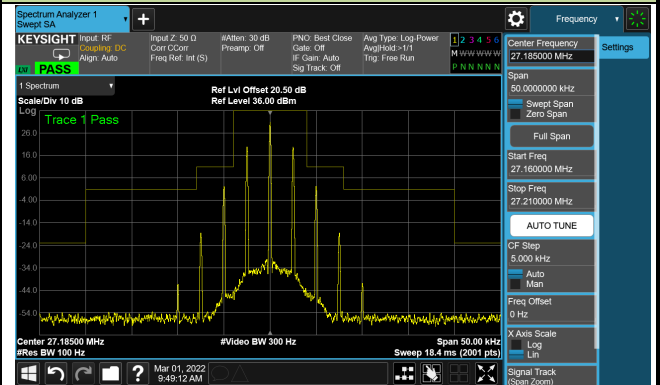


Emission Mask - FM

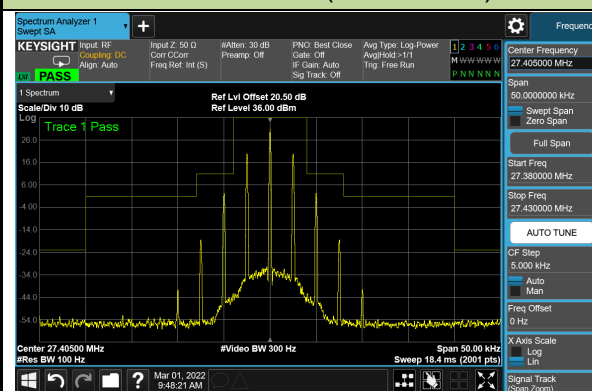
Channel 01 (26.965MHz)



Channel 19 (27.185MHz)



Channel 40 (27.405MHz)



A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC1	Test Engineer	Charles Zhang
Test Date	2022/03/03	Test Mode:	AM
Remark:	Average measurement was not performed if peak level lower than average limit.		

Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	53.930	3.8	18.3	22.1	71.3	-49.2	Peak	Horizontal
	80.895	2.9	13.3	16.2	71.3	-55.1	Peak	Horizontal
	107.860	3.9	14.1	18.0	71.3	-53.3	Peak	Horizontal
	53.930	4.9	18.3	23.2	71.3	-48.1	Peak	Vertical
	80.895	6.3	13.3	19.6	71.3	-51.7	Peak	Vertical
	107.860	5.1	14.1	19.2	71.3	-52.1	Peak	Vertical
19	54.370	2.8	18.2	21.0	71.3	-50.3	Peak	Horizontal
	81.555	4.8	13.1	17.9	71.3	-53.4	Peak	Horizontal
	108.740	4.2	14.2	18.4	71.3	-52.9	Peak	Horizontal
	54.370	6.5	18.2	24.7	71.3	-46.6	Peak	Vertical
	81.555	6.8	13.1	19.9	71.3	-51.4	Peak	Vertical
	108.740	4.9	14.2	19.1	71.3	-52.2	Peak	Vertical
40	54.810	2.5	18.2	20.7	71.3	-50.6	Peak	Horizontal
	82.215	4.0	12.9	16.9	71.3	-54.4	Peak	Horizontal
	109.620	5.0	14.3	19.3	71.3	-52.0	Peak	Horizontal
	54.810	7.1	18.2	25.3	71.3	-46.0	Peak	Vertical
	82.215	7.0	12.9	19.9	71.3	-51.4	Peak	Vertical
	109.620	5.7	14.3	20.0	71.3	-51.3	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).								

Test Site	WZ-AC1	Test Engineer	Charles Zhang
Test Date	2022/03/03	Test Mode:	FM
Remark:	Average measurement was not performed if peak level lower than average limit.		

Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	53.930	2.9	18.3	21.2	71.3	-50.1	Peak	Horizontal
	80.895	3.5	13.3	16.8	71.3	-54.5	Peak	Horizontal
	107.860	3.9	14.1	18.0	71.3	-53.3	Peak	Horizontal
	53.930	5.4	18.3	23.7	71.3	-47.6	Peak	Vertical
	80.895	6.9	13.3	20.2	71.3	-51.1	Peak	Vertical
	107.860	4.9	14.1	19.0	71.3	-52.3	Peak	Vertical
19	54.370	3.0	18.2	21.2	71.3	-50.1	Peak	Horizontal
	81.555	4.4	13.1	17.5	71.3	-53.8	Peak	Horizontal
	108.740	5.1	14.2	19.3	71.3	-52.0	Peak	Horizontal
	54.370	6.5	18.2	24.7	71.3	-46.6	Peak	Vertical
	81.555	7.3	13.1	20.4	71.3	-50.9	Peak	Vertical
	108.740	6.3	14.2	20.5	71.3	-50.8	Peak	Vertical
40	54.810	3.8	18.2	22.0	71.3	-49.3	Peak	Horizontal
	82.215	5.4	12.9	18.3	71.3	-53.0	Peak	Horizontal
	109.620	5.6	14.3	19.9	71.3	-51.4	Peak	Horizontal
	54.810	6.6	18.2	24.8	71.3	-46.5	Peak	Vertical
	82.215	6.7	12.9	19.6	71.3	-51.7	Peak	Vertical
	109.620	7.0	14.3	21.3	71.3	-50.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Appendix A - Test Setup Photograph

Refer to “2111RSU075-UT” file.

Appendix B - EUT Photograph

Refer to “ 2111RSU075-UE” file.