RF MEASUREMENT REPORT

FCC ID:	2APJ4-SLM156
Application:	MeiG Smart Technology Co., Ltd
Product:	CAT-M Module
Model No.:	SLM156
Brand Name:	MEIGLink
FCC Rule Part(s):	Part90 Subpart R
Test Procedure(s):	ANSI C63.26: 2015
Result:	Complies
Test Date:	2022-05-23 ~ 2022-11-02

Reviewed By: Vincent Yu

Approved By: Robin Wu

TESTING LABORATORY CERTIFICATE #3628.01

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 C63.26-2015. Test results reported herein relate only to the item(s) tested.

Revision History

Report No.	Version	Description	Issue Date	Note
2205RSU044-U3	Rev. 01	Initial Report	2023-04-17	Valid

CONTENTS

1. General Information

1.1. Applicant

MeiG Smart Technology Co., Ltd

2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao 'an District, Shenzhen, China

1.2. Manufacturer

MeiG Smart Technology Co., Ltd

2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao 'an District, Shenzhen, China

1.3. Testing Facility

<table>
<tr><td>☒</td><td colspan="5">Test Site – MRT Suzhou Laboratory</td></tr>
<tr><td></td><td colspan="5">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</td></tr>
<tr><td></td><td colspan="5">Laboratory Accreditations</td></tr>
<tr><td></td><td colspan="5">A2LA: 3628.01 CNAS: L10551
FCC: CN1166 ISED: CN0001</td></tr>
<tr><td></td><td>VCCI:</td><td>☐R-20025</td><td>☐G-20034</td><td>☐C-20020</td><td>☐T-20020</td></tr>
<tr><td></td><td></td><td>☐R-20141</td><td>☐G-20134</td><td>☐C-20103</td><td>☐T-20104</td></tr>
<tr><td>☐</td><td colspan="5">Test Site – MRT Shenzhen Laboratory</td></tr>
<tr><td></td><td colspan="5">Laboratory Location (Shenzhen)
1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China</td></tr>
<tr><td></td><td colspan="5">Laboratory Accreditations</td></tr>
<tr><td></td><td colspan="5">A2LA: 3628.02 CNAS: L10551
FCC: CN1284 ISED: CN0105</td></tr>
<tr><td>☐</td><td colspan="5">Test Site – MRT Taiwan Laboratory</td></tr>
<tr><td></td><td colspan="5">Laboratory Location (Taiwan)
No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)</td></tr>
<tr><td></td><td colspan="5">Laboratory Accreditations</td></tr>
<tr><td></td><td colspan="5">TAF: L3261-190725
FCC: 291082, TW3261 ISED: TW3261</td></tr>
</table>

1.4. Product Information

Product Name	CAT-M Module
Model No.	SLM156
IMEI	Conducted Measurement: 868510050004513 Radiated Measurement: 868510050007318
Operating Temperature	-35 ~ 75 °C
Hardware Version	SLM156_V1.01_PCB
Software Version	SLM156_5.0.12_EQ100
Power Type	3.3 ~ 4.2Vdc, typical 3.8Vdc
GSM Specification	
Band	GSM850, PCS1900
Modulation	GMSK, 8PSK
E-UTRA Specification	
Single Band	Cat M Band 2, 4, 5, 12, 13, 14, 25, 26, 66 NB-IoT Band 2, 4, 5, 12, 13, 25, 26, 66, 71
Modulation	Cat M: Uplink up to 16QAM, Downlink up to 16QAM NB-IoT: Uplink BPSK, QPSK; Downlink QPSK
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification

FDD T_X Frequency Range	Cat M Band 14: 788 ~ 798 MHz
FDD R_X Frequency Range	Cat M Band 14: 758 ~ 768 MHz

Note 1: For other features of this EUT, test report will be issued separately.

Note 2: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1.6. Description of Available Antennas

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
Band 2	1850 ~ 1910	PCB Antenna	0.78
Band 4	1710 ~ 1755		-0.10
Band 5	824 ~ 849		0.44
Band 12	699 ~ 716		1.72
Band 13	777 ~ 787		1.59
Band 14	788 ~ 798		0.66
Band 25	1850 ~ 1915		0.71
Band 26	814 ~ 849		0.49
Band 66	1710 ~ 1780		-0.10
Band 71	663 ~ 698		-2.38

Note: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.

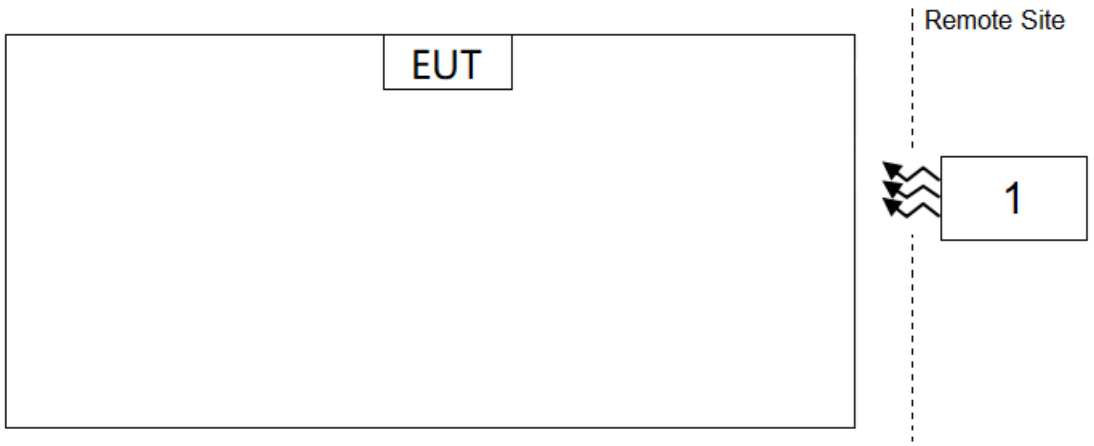
1.7. Test Methodology

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

- ANSI C63.26:2015
- FCC CFR 47 Part 90
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

2. Test Configuration

2.1. Test System Connection Diagram



Product		Manufacturer	Model No.
1	Radio Communication Analyzer	Anritsu	8821C

2.2. Test Environment Condition

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

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Last Cali. Date	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2023-05-20	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2022-06-24	WZ-AC2
				1 year	2023-06-04	
Thermohygrometer	Mingle	ETH529	MRTSUE06170	1 year	2022-12-01	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2022-10-21	WZ-AC2
				1 year	2023-10-13	
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2022-11-12	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2023-04-21	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11038	1 year	2022-11-11	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE06362	1 year	2023-02-15	WZ-SR6
Shielding Room	HUAMING	WZ-SR6	MRTSUE06443	N/A	N/A	WZ-SR6
Signal Analyzer	Keysight	N9020B	MRTSUE06583	1 year	2022-10-10	WZ-SR6/WZ-TR3
				1 year	2023-10-08	
Radio Communication Analyzer	Anritsu	MT8821C	MRTSUE06960	1 year	2022-07-01	WZ-SR6/WZ-TR3
				1 year	2023-07-08	
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2022-10-10	WZ-SR6/WZ-TR3
				1 year	2023-10-08	
Vibration Test System	DongLing	ES-1-150	MRTSUE06206	1 year	2022-08-08	WZ-SR6/WZ-TR3
				1 year	2023-07-07	
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2022-06-28	WZ-SR6/WZ-TR3
				1 year	2023-06-06	
Directional Coupler	Agilent	778D	MRTSUE06083	1 year	2023-03-17	WZ-SR6/WZ-TR3
Directional Coupler	narda	4226-10	MRTSUE06562	1 year	2022-10-28	WZ-SR6/WZ-TR3
				1 year	2023-10-27	
Attenuator	MVE	MVE2213	MRTSUE11087	1 year	2022-06-10	WZ-SR6/WZ-TR3
				1 year	2023-06-09	
Attenuator	MVE	MVE2213	MRTSUE11088	1 year	2022-06-10	WZ-SR6/WZ-TR3
				1 year	2023-06-09	

Software	Version	Function
EMI V3	V3.0.0	EMI Test Software
Controller_MF 7802	2.03C	RE Antenna & Turntable

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. 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 Spurious Emissions
Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): Horizontal: 9kHz ~ 300MHz: 5.04dB 300MHz ~ 1GHz: 4.95dB 1GHz ~ 40GHz: 6.40dB Vertical: 9kHz ~ 300MHz: 5.24dB 300MHz ~ 1GHz: 6.03dB 1GHz ~ 40GHz: 6.40dB
Conducted Spurious Emissions
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.13dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.28%
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 76.2Hz

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied Bandwidth	N/A	Conducted	Pass	Section5.2
2.1055,90.539(e)	Frequency Stability	<1.25 ppm		Pass	Section5.3
90.542(a)(7)	Equivalent Radiated Power	<30 Watts Max ERP		Pass	Section 5.4
2.1051, 90.543(e)(2)(3)	Band Edge	Refer to section 5.5		Pass	Section 5.5, 5.6, 5.7
2.1051, 90.210(n)	Emission Mask	Mask B			
2.1051, 90.543(e)(3)	Spurious Emission	< 43 + 10log10 (P[Watts])			
2.1053, 90.543(e)(3) 90.543(f)	Spurious Emissions	< 43 + 10log10 (P[Watts])	Radiated	Pass	Section5.8

Notes:

1) 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.
2) All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Frequency Stability, Channel Band Edge, Radiated & Conducted Spurious Emission were presented worst-case in the test report.

5.2. Occupied Bandwidth Measurement

5.2.1.Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

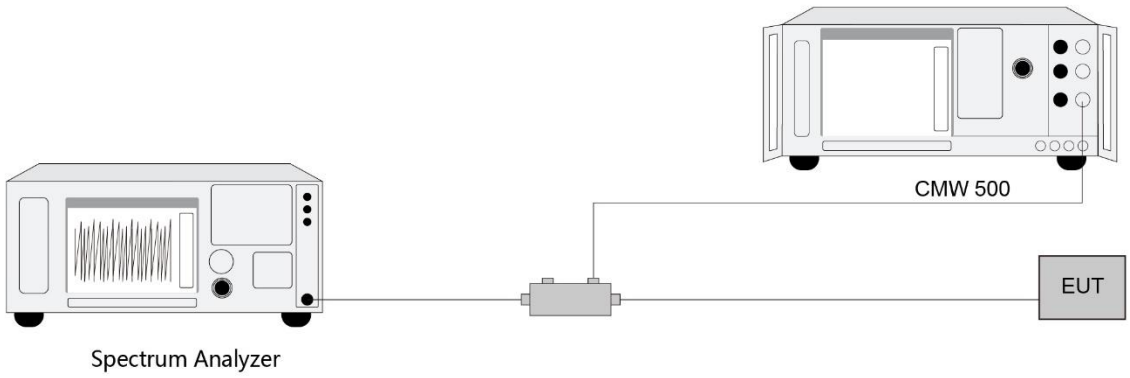
5.2.2.Test Procedure

ANSI C63.26-2015 - Section 5.4

5.2.3.Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.2.4.Test Setup



5.2.5.Test Result

Refer to Appendix A.1.

5.3. Frequency Stability Measurement

5.3.1.Test Limit

The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked

5.3.2.Test Procedure

ANSI C63.26-2015 - Section 5.6

5.3.3.Test Setting

Frequency Stability Under Temperature Variations:

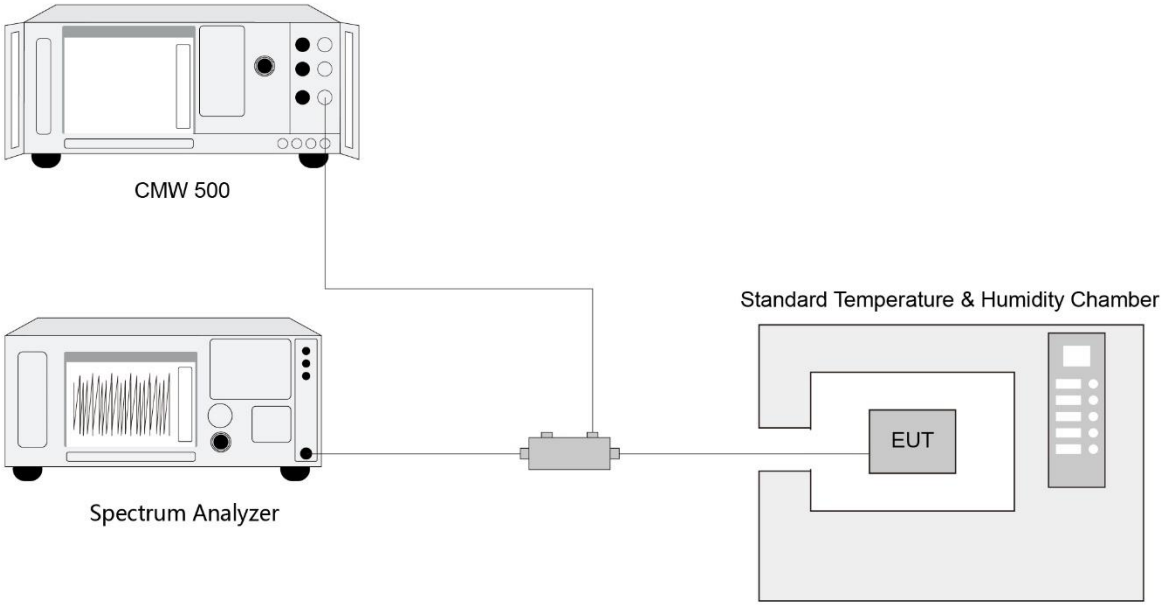
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest 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 inputvoltage to specify extreme voltage variation (±15%) and end point, record the maximum frequency change.

5.3.4.Test Setup



5.3.5.Test Result

Refer to Appendix A.2.

5.4. Equivalent Isotropically Radiated Power Measurement

5.4.1.Test Limit

Control stations and mobile stations transmitting in the 758-768 MHz band and the788-798 MHz band are limited to 30 watts ERP.

5.4.2.Test Procedure

ANSI C63.26-2015 - Section 5.2

5.4.3.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. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

ERP or EIRP = P_{Meas} + G_T

where

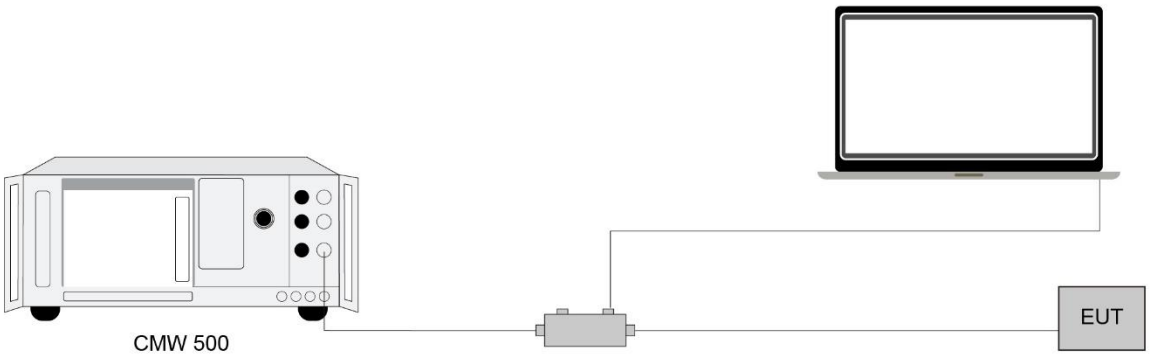
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

ERP = EIRP -2.15

5.4.4.Test Setup



5.4.5.Test Result

Refer to Appendix A.3.

5.5. Band Edge Measurement

5.5.1.Test Limit

For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, byat least 43 + 10 log (P) dB.

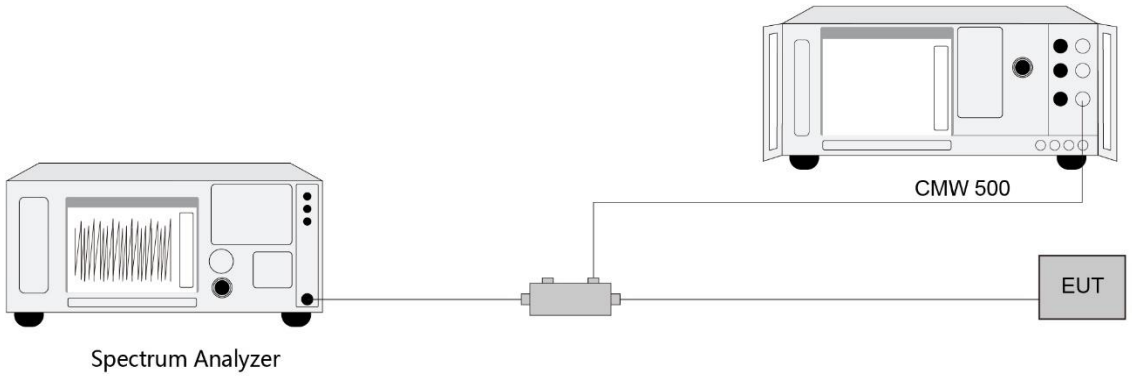
5.5.2.Test Procedure

ANSI C63.26-2015 - Section5.7

5.5.3.Test Setting

1. Set the analyzer frequency to low or high channel
2. RBW ≥ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer’s band power functions.
3. VBW ≥ 3*RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to “free run.”
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.5.4.Test Setup



5.5.5.Test Result

Refer to Appendix A.4.

5.6. Emisson Mask Measurement

5.6.1.Test Limit

Emission Mask B.For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

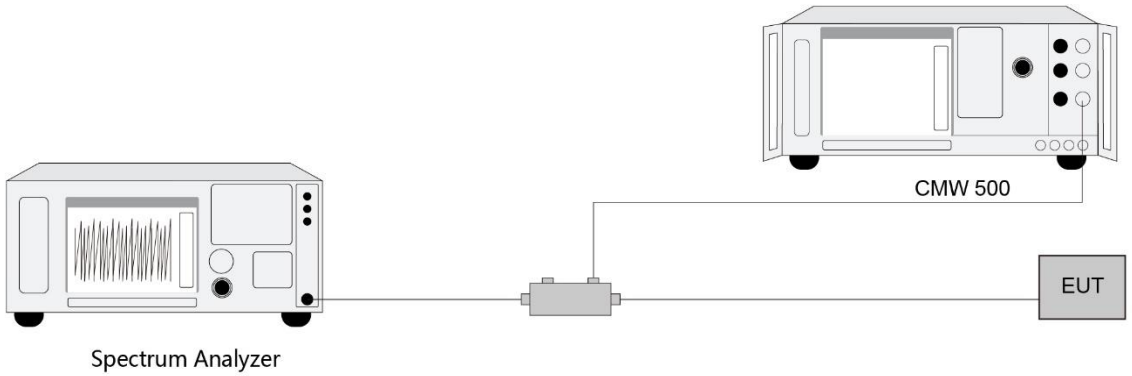
5.6.2.Test Procedure

ANSI C63.26-2015 - Section5.7

5.6.3.Test Setting

1. Set the analyzer frequency to low or high channel
2. RBW ≥ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer’s band power functions.
3. VBW ≥ 3*RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to “free run.”
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.6.4.Test Setup



5.6.5.Test Result

Refer to Appendix A.5.

5.7. Conducted Spurious Emissions Measurement

5.7.1.Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

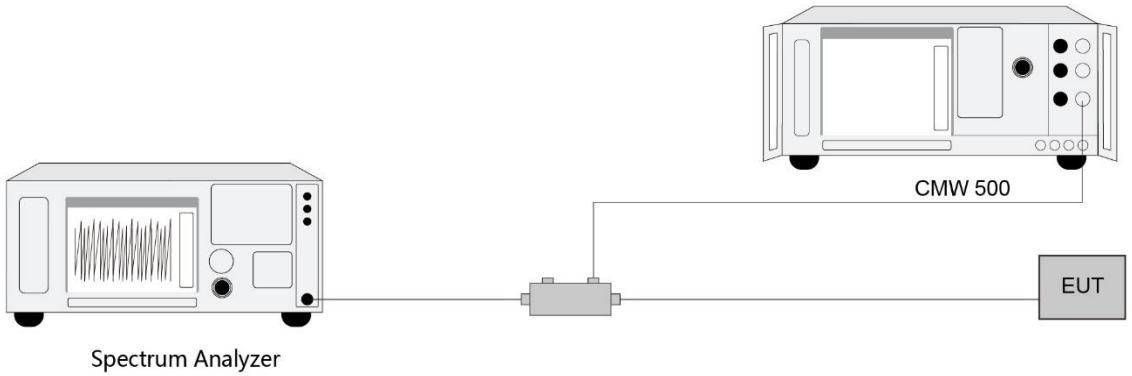
5.7.2.Test Procedure

ANSI C63.26-2015 - Section 5.7

5.7.3.Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW ≥ 3*RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to “free run.”
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.7.4.Test Setup



5.7.5.Test Result

Refer to Appendix A.6.

5.8. Radiated Spurious Emissions Measurement

5.8.1.Test Limit

Out of band emissions: The powerof any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factorof at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, atransmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

E (dBμV/m) = EIRP (dBm) - 20 log D + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dBμV/m or 55.3dBμV/m.

5.8.2.Test Procedure

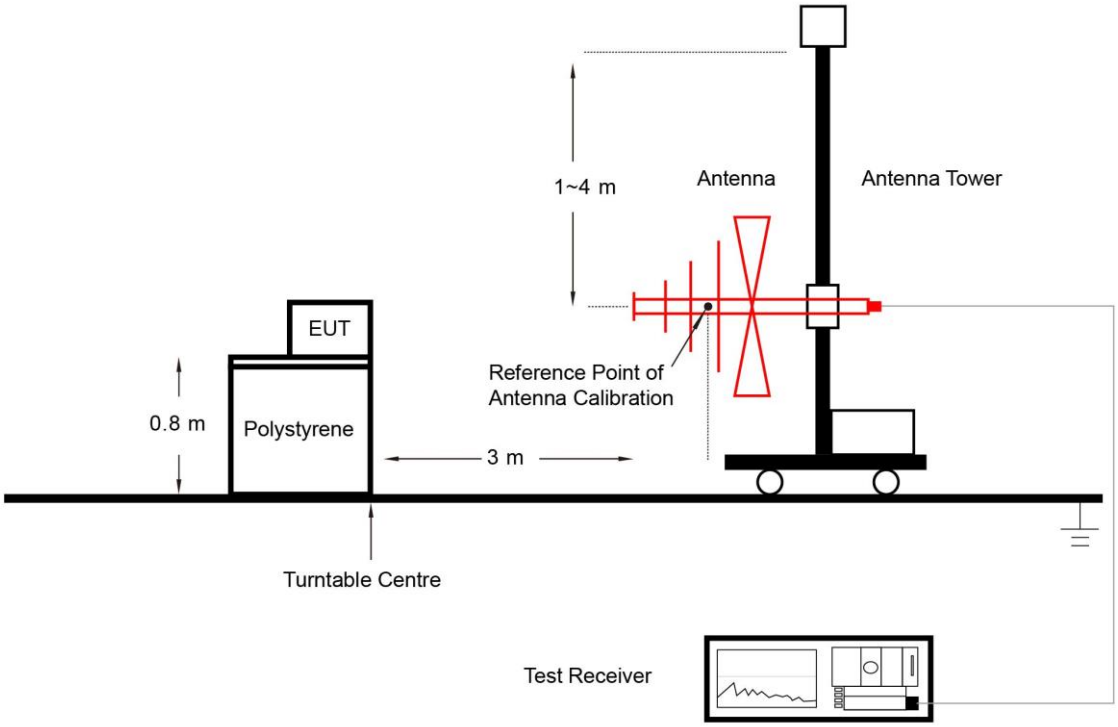
ANSI C63.26-2015 - Section 5.2.7 & 5.5

5.8.3.Test Setting

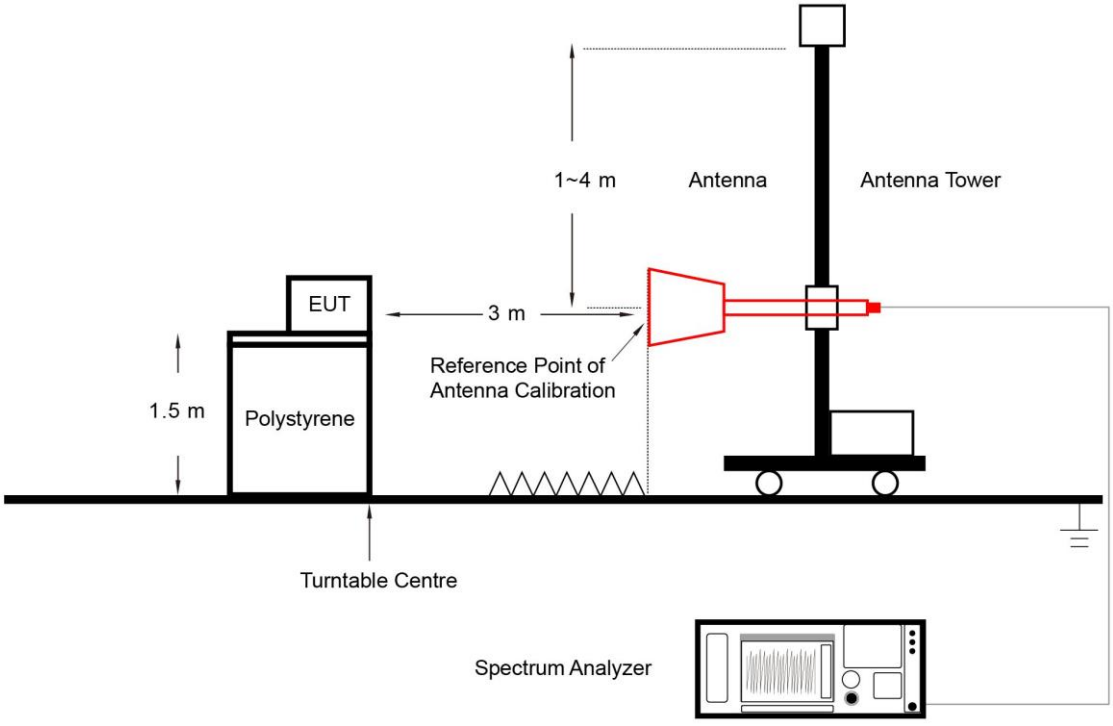
1. RBW = 1MHz
2. VBW ≥ 3*RBW
3. Sweep time ≥ 10 × (number of points in sweep) × (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

5.8.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.8.5.Test Result

Refer to Appendix A.7.

Appendix A - Test Result

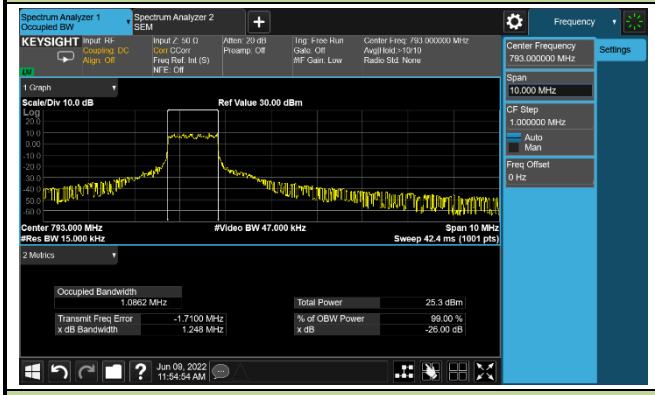
A.1 Occupied Bandwidth Test Result

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/06/09	Test Band	Band 14

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	793.0	5	1.09
		10	1.10
16QAM	793.0	5	0.91
		10	0.93

99% Bandwidth - QPSK

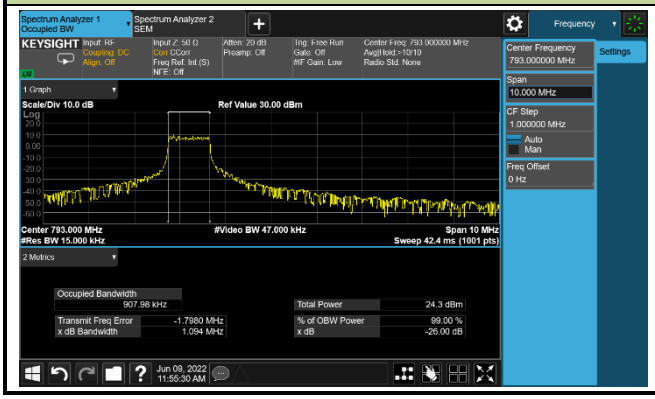
5MHz Channel Bandwidth



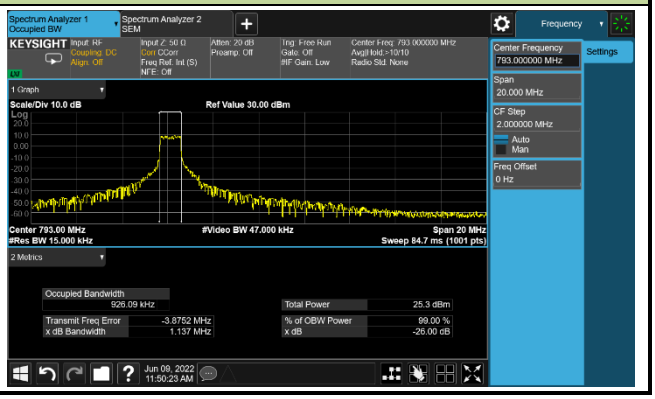
10MHz Channel Bandwidth

99% Bandwidth - 16QAM

5MHz Channel Bandwidth



10MHz Channel Bandwidth



A.2 Frequency Stability Test Result

Test Site	WZ-TR3	Test Engineer	Cloud Guo
Test Date	2022/07/22~2022/07/24	Test Band	Band 14

Power (Vdc)	Temp. (°C)	Frequency Tolerance (ppm)
3.8	- 30	-0.0058
	- 20	0.0024
	- 10	0.0014
	0	-0.0037
	+ 10	-0.0045
	+ 20 (Ref)	-0.0086
	+ 30	-0.0059
	+ 40	-0.0078
	+ 50	-0.0087
4.2	+ 20	-0.0101
3.3	+ 20	-0.0052

A.3 Equivalent Isotropically Radiated Power Test Result

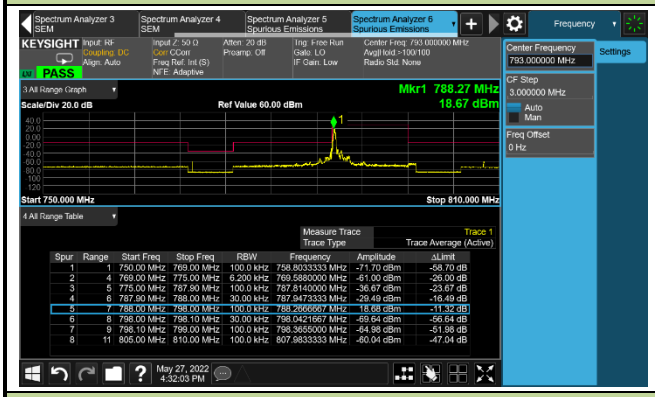
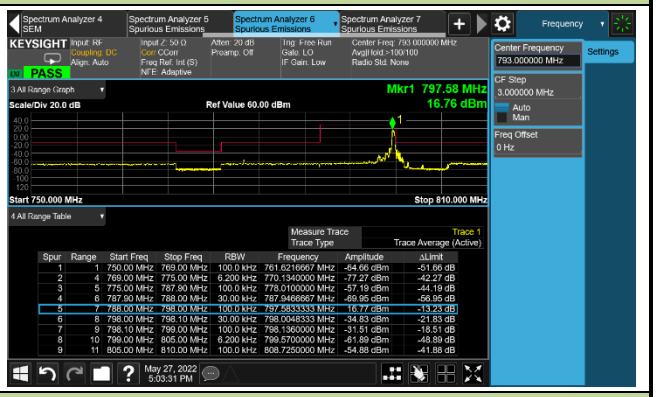
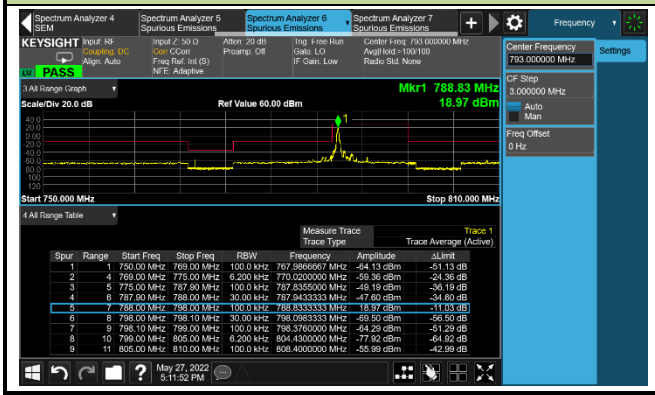
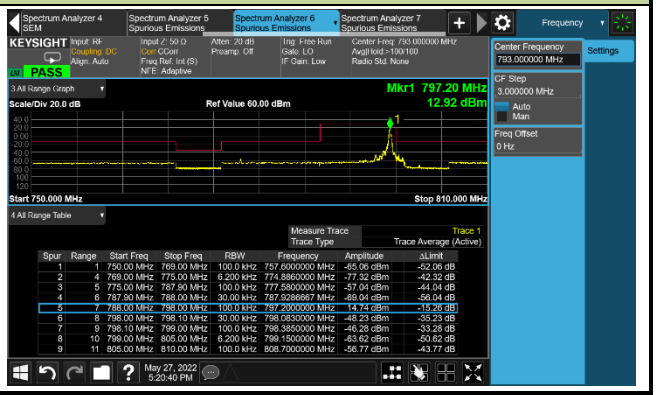
Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/05/25 ~ 2022/05/30	Test Band	Band 14

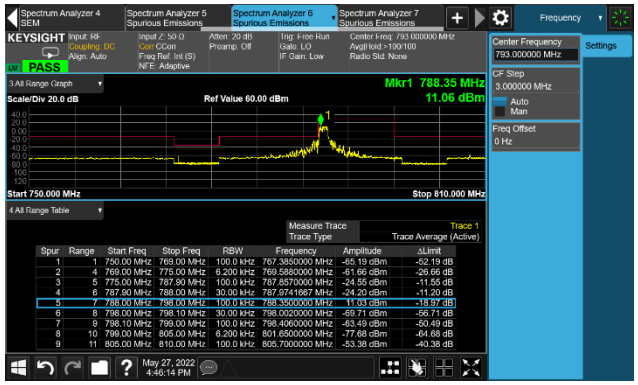
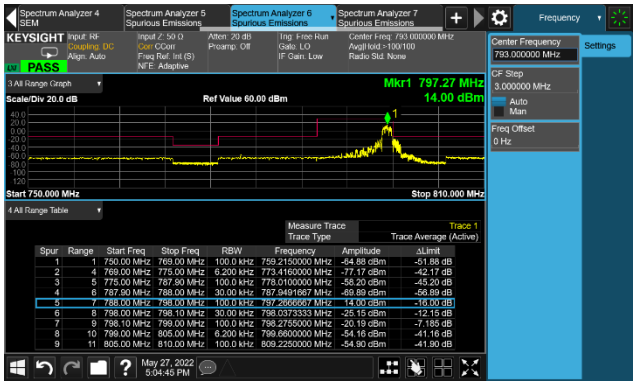
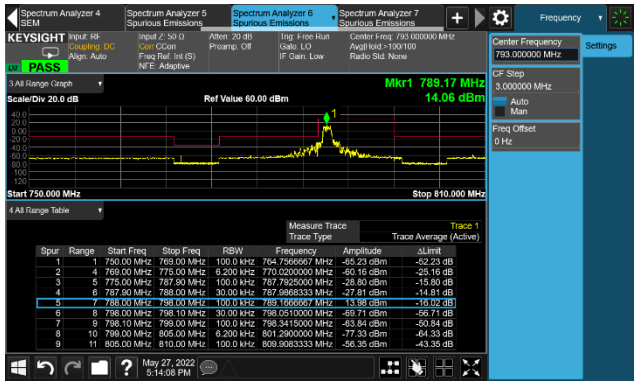
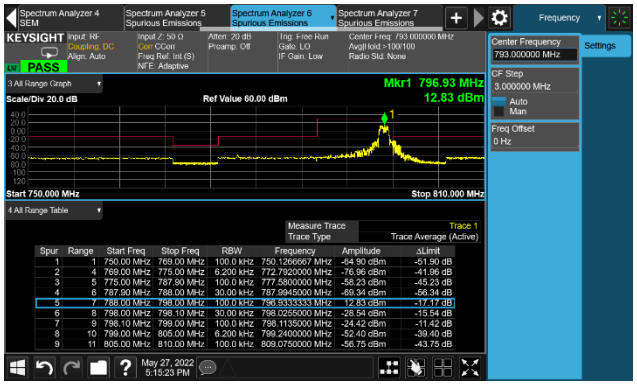
Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	Index	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK								
23305	790.5	5	0	1	0	19.45	17.96	< 44.77
				1	2	19.36	17.87	< 44.77
				1	5	19.20	17.71	< 44.77
				6	0	18.39	16.90	< 44.77
23330	793.0		1	1	0	19.51	18.02	< 44.77
				1	2	19.48	17.99	< 44.77
				1	5	19.39	17.90	< 44.77
				6	0	18.69	17.20	< 44.77
23355	795.5		3	1	0	19.32	17.83	< 44.77
				1	2	19.22	17.73	< 44.77
				1	5	19.04	17.55	< 44.77
				6	0	18.33	16.84	< 44.77
23330	793.0	10	0	1	0	19.35	17.86	< 44.77
				1	2	19.42	17.93	< 44.77
				1	5	19.24	17.75	< 44.77
				6	0	18.42	16.93	< 44.77
23330	793.0		3	1	0	19.39	17.90	< 44.77
				1	2	19.44	17.95	< 44.77
				1	5	19.39	17.90	< 44.77
				6	0	18.68	17.19	< 44.77
23330	793.0		7	1	0	19.46	17.97	< 44.77
				1	2	19.26	17.77	< 44.77
				1	5	19.10	17.61	< 44.77
				6	0	18.27	16.78	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15								

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	Index	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM								
23305	790.5	5	0	1	0	19.06	17.57	< 44.77
				1	2	19.43	17.94	< 44.77
				1	5	19.20	17.71	< 44.77
				5	0	17.27	15.78	< 44.77
23330	793.0		1	1	0	19.57	18.08	< 44.77
				1	2	19.42	17.93	< 44.77
				1	5	19.39	17.90	< 44.77
				5	0	17.63	16.14	< 44.77
23355	795.5		3	1	0	19.41	17.92	< 44.77
				1	2	19.38	17.89	< 44.77
				1	5	19.15	17.66	< 44.77
				5	1	17.46	15.97	< 44.77
23330	793.0	10	0	1	0	19.32	17.83	< 44.77
				1	2	19.30	17.81	< 44.77
				1	5	19.23	17.74	< 44.77
				5	0	18.48	16.99	< 44.77
23330	793.0		3	1	0	19.68	18.19	< 44.77
				1	2	19.65	18.16	< 44.77
				1	5	19.38	17.89	< 44.77
				5	0	18.66	17.17	< 44.77
23330	793.0		7	1	0	19.50	18.01	< 44.77
				1	2	19.02	17.53	< 44.77
				1	5	19.20	17.71	< 44.77
				5	1	18.40	16.91	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15								

A.4 Band Edge Test Result

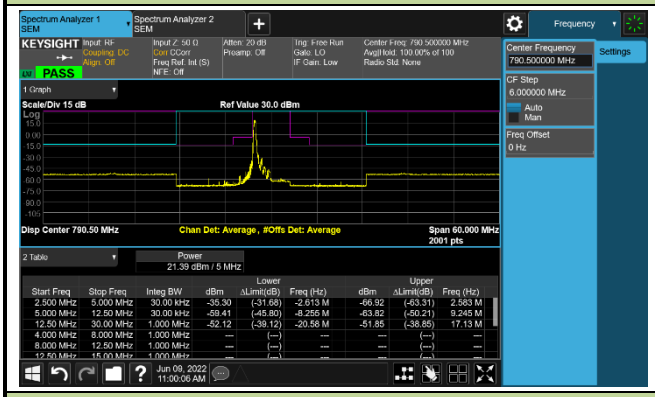
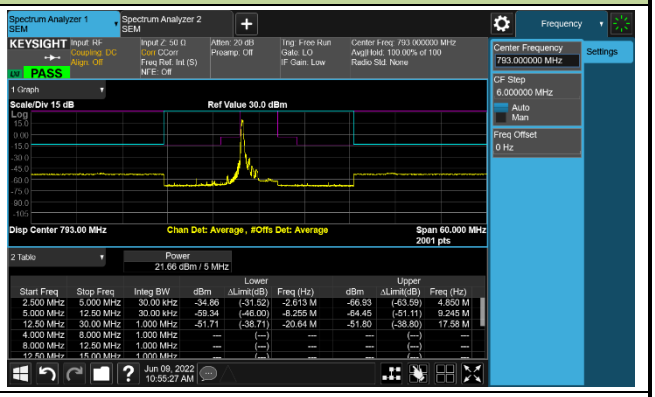
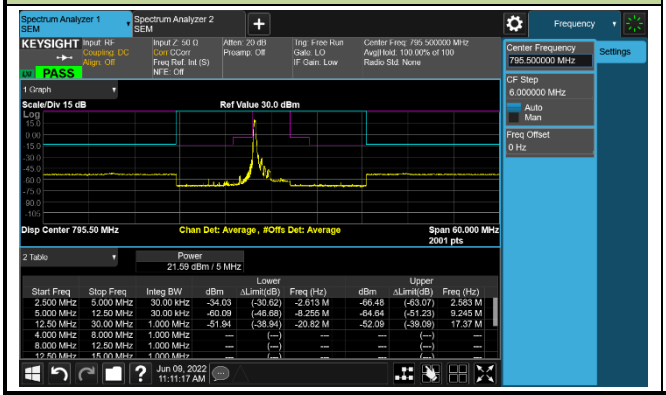
Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/05/27	Test Band	Band 14

5MHz Channel Bandwidth 1RB	
Lower ACP_Index 0	Upper ACP_Index 3
	
10MHz Channel Bandwidth 1RB	
Lower ACP_Index 0	Upper ACP_Index 7
	

5MHz Channel Bandwidth Full RB	
Lower ACP_Index 0	Upper ACP_Index 3
	
10MHz Channel Bandwidth Full RB	
Lower ACP_Index 0	Upper ACP_Index 7
	

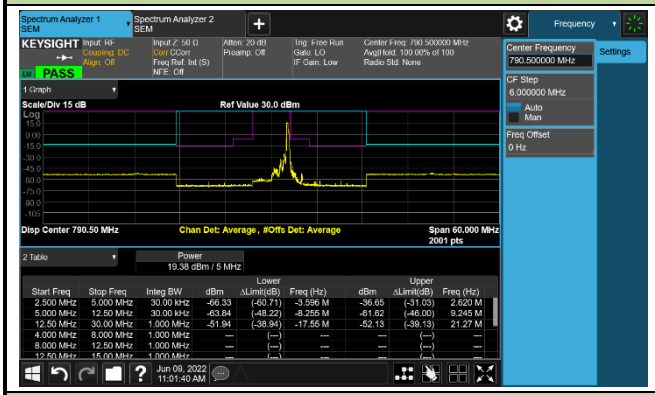
A.5 Emisson Mask Test Result

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/06/09	Test Band	Band 14

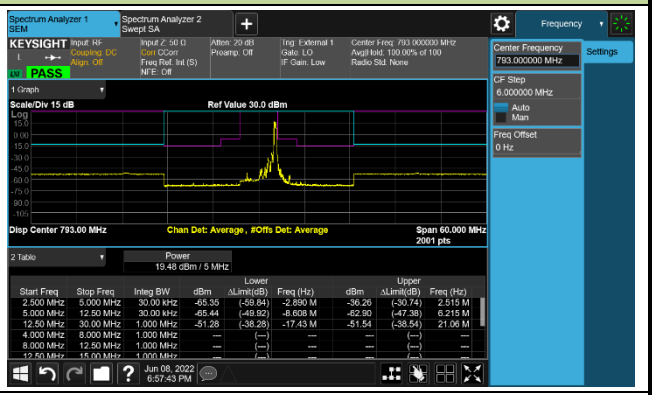
5MHz Channel Bandwidth 1RB@0_Index 0	
Low Channel	Middle Channel
	
High Channel	
	

5MHz Channel Bandwidth 1RB@5_Index 3

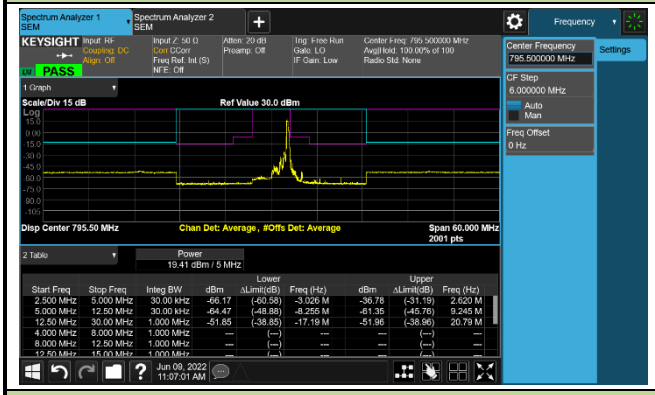
Low Channel



Middle Channel

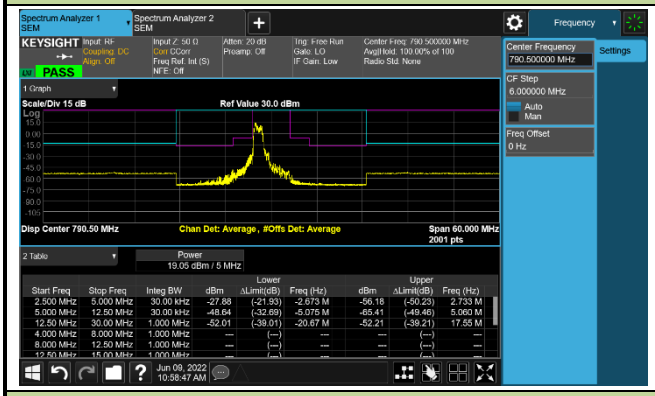


High Channel

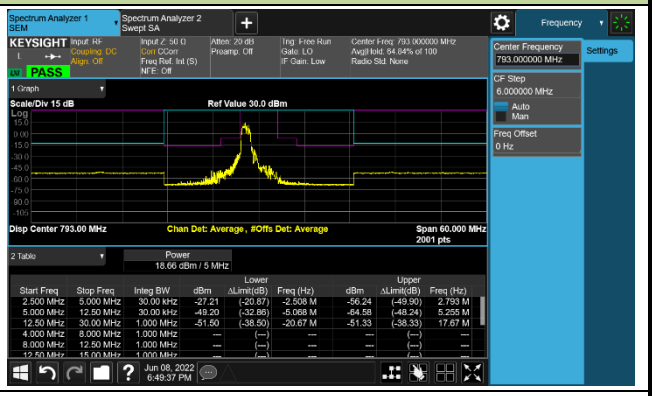


5MHz Channel Bandwidth Full RB_Index 0

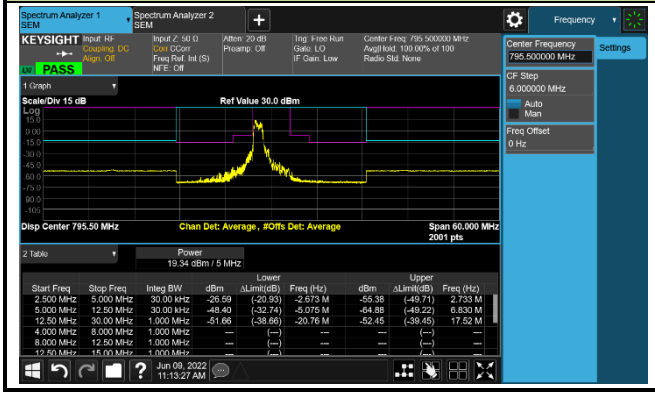
Low Channel

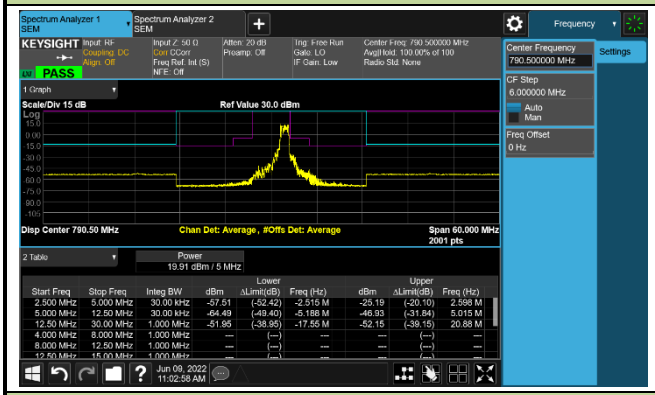
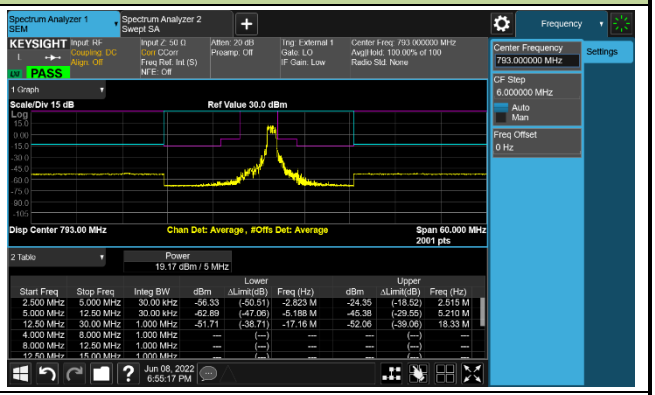
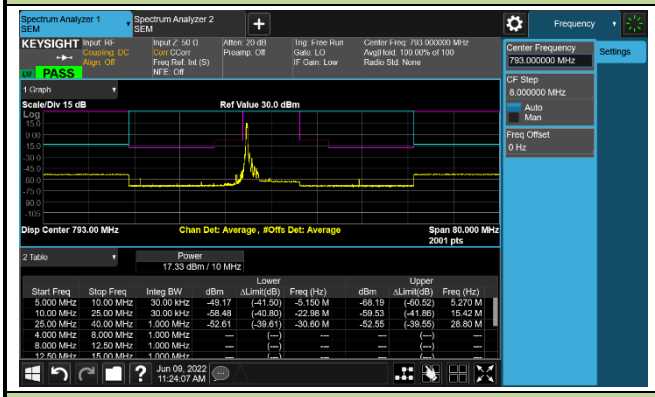
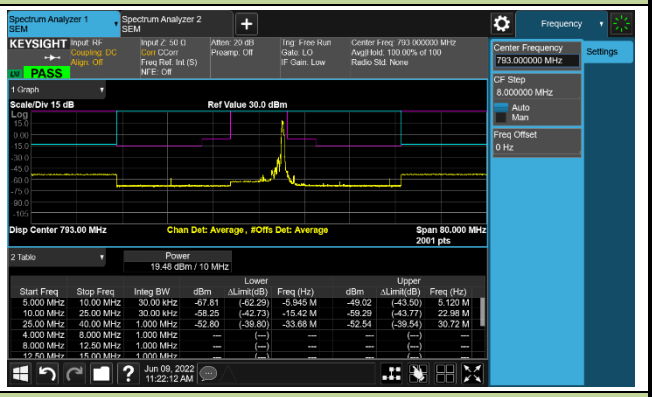
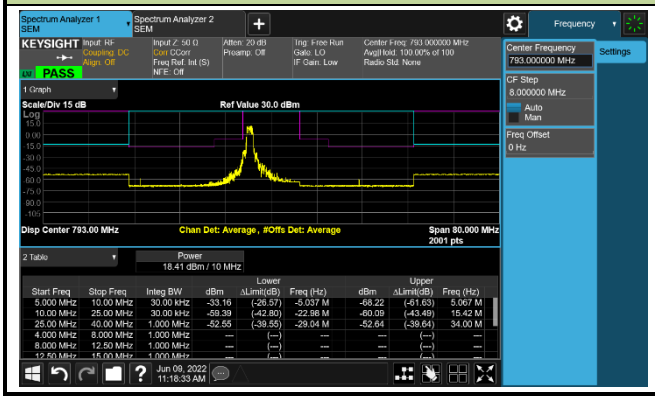


Middle Channel



High Channel



5MHz Channel Bandwidth Full RB_Index 3	
Low Channel	Middle Channel
	
High Channel	
	
10MHz Channel Bandwidth 1RB@0_Index 0	10MHz Channel Bandwidth 1RB@5_Index 7
	
10MHz Channel Bandwidth Full RB_Index 0	10MHz Channel Bandwidth Full RB_Index 7
	

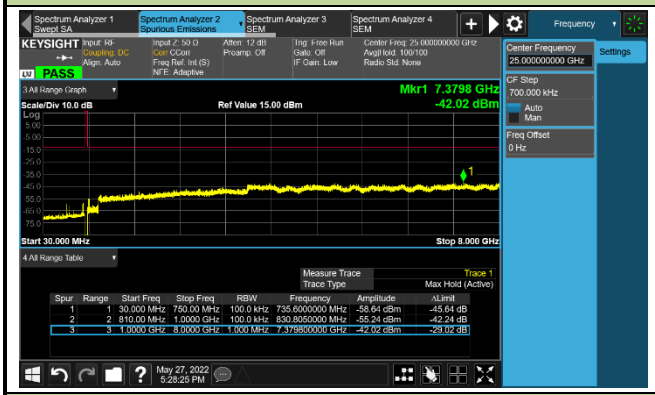
A.6 Conducted Supurious Emissions Test Result

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/05/27	Test Band	Band 14

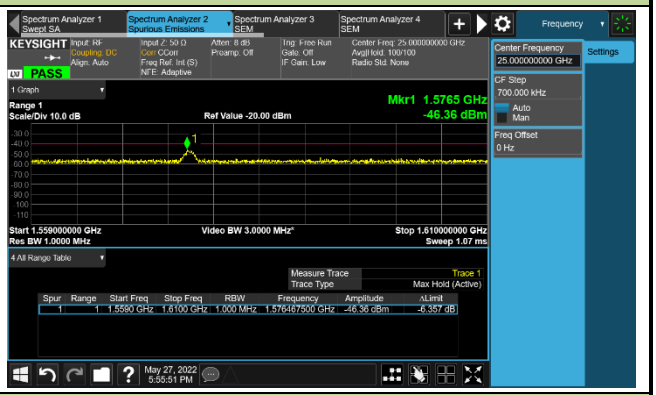
Frequency (MHz)	Channel Bandwidth (MHz)	Frequency Range (MHz)	Max Spurious Emissions (dBm)	Limit (dBm)	Result
QPSK					
790.5	5	30 ~ 10000	-42.02	≤ -13.00	Pass
793.0	5	30 ~ 10000	-42.28	≤ -13.00	Pass
795.5	5	30 ~ 10000	-41.48	≤ -13.00	Pass
793.0	10	30 ~ 10000	-41.75	≤ -13.00	Pass

5MHz Channel Bandwidth

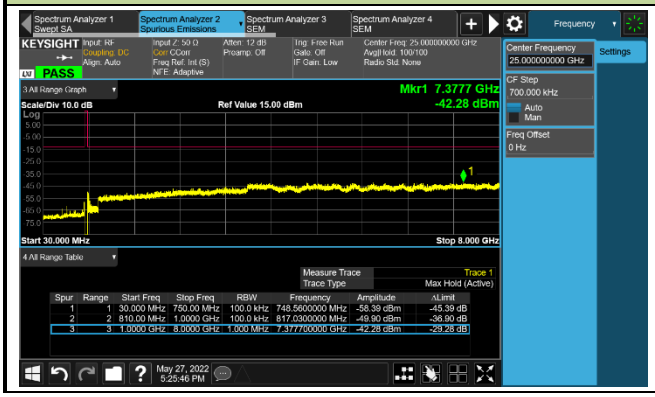
Low Channel



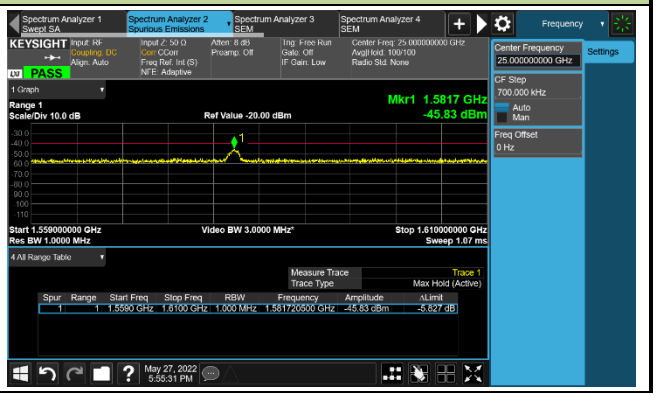
1559-1610MHz

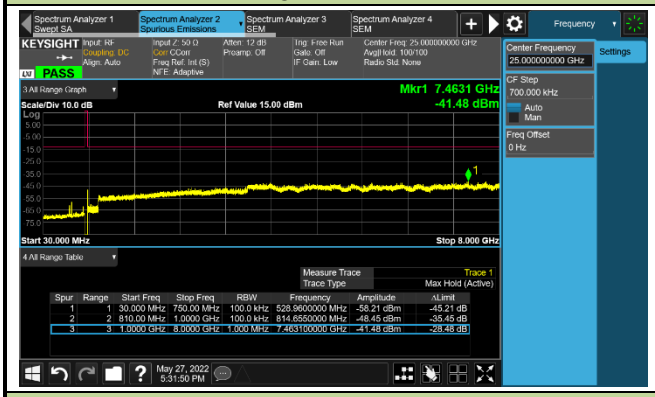
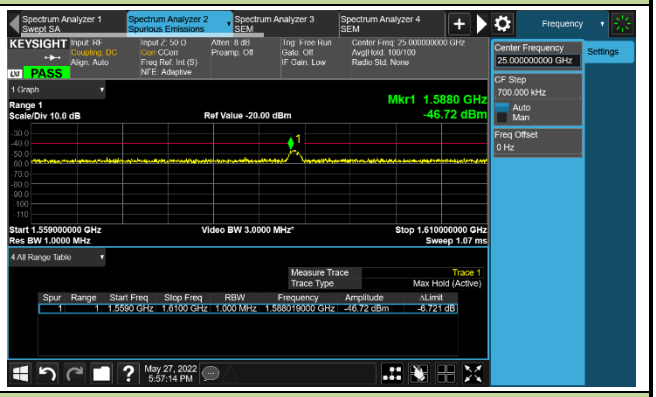


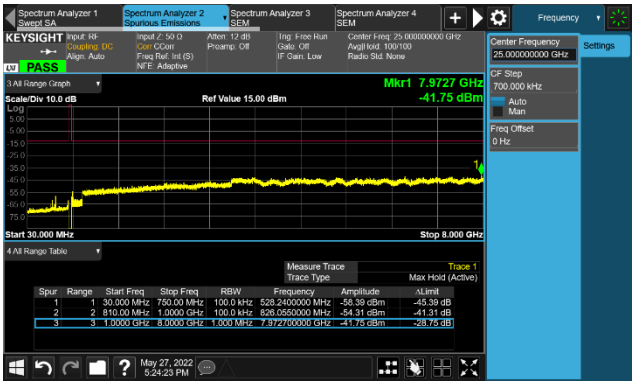
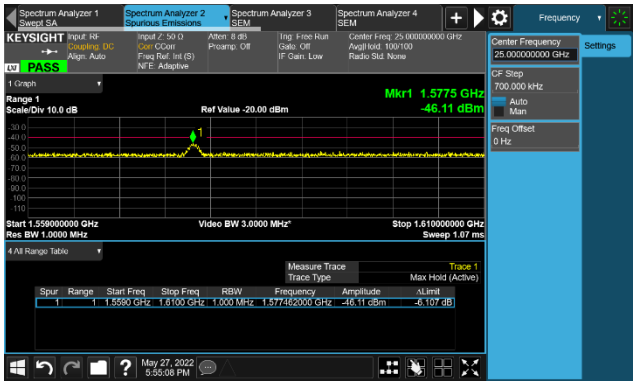
Middle Channel



1559-1610MHz



High Channel	1559-1610MHz
	

10MHz Channel Bandwidth	
Middle Channel	1559-1610MHz
	

A.7 Radiated Spurious Emissions Test Result

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2022/06/12~2022/06/23	Test Band	Band 14

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level(dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
695.4	13.7	28.6	42.3	82.3	-40.0	Peak	Horizontal
869.1	14.4	31.1	45.5	82.3	-36.8	Peak	Horizontal
558.2	14.6	26.2	40.8	82.3	-41.5	Peak	Vertical
971.9	13.6	31.6	45.2	82.3	-37.1	Peak	Vertical
1603.5	38.0	-5.8	32.2	55.3	-23.1	Peak	Horizontal
14795.5	31.4	19.9	51.3	82.3	-31.0	Peak	Horizontal
1595.0	36.7	-5.8	30.9	55.3	-24.4	Peak	Vertical
14455.5	31.1	19.8	50.9	82.3	-31.4	Peak	Vertical
Middle Channel							
484.9	15.6	25.1	40.7	82.3	-41.6	Peak	Horizontal
933.6	14.3	31.1	45.4	82.3	-36.9	Peak	Horizontal
617.3	12.8	27.3	40.1	82.3	-42.2	Peak	Vertical
894.3	14.0	31.1	45.1	82.3	-37.2	Peak	Vertical
1578.0	37.6	-5.7	31.9	55.3	-23.4	Peak	Horizontal
14940.0	31.9	19.9	51.8	82.3	-30.5	Peak	Horizontal
1578.0	36.5	-5.7	30.8	55.3	-24.5	Peak	Vertical
14047.5	32.0	19.7	51.7	82.3	-30.6	Peak	Vertical
High Channel							
529.1	14.8	25.6	40.4	82.3	-41.9	Peak	Horizontal
933.1	13.7	31.2	44.9	82.3	-37.4	Peak	Horizontal
601.8	12.3	27.3	39.6	82.3	-42.7	Peak	Vertical
916.6	13.5	31.4	44.9	82.3	-37.4	Peak	Vertical
1578.0	36.2	-5.7	30.5	55.3	-24.8	Peak	Horizontal
14430.0	32.2	19.3	51.5	82.3	-30.8	Peak	Horizontal
1586.5	36.5	-5.7	30.8	55.3	-24.5	Peak	Vertical
14498.0	31.6	19.3	50.9	82.3	-31.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Appendix B - Test Setup Photograph

Refer to “2205RSU044-UT” file.

Appendix C - EUT Photograph

Refer to “2205RSU044-UE” file.

The End