



FCC RF Test Report

APPLICANT : MeiG Smart Technology Co., Ltd
EQUIPMENT : CPE
BRAND NAME : MEIGLink
MODEL NAME : SLT866
FCC ID : 2APJ4-SLT866
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Oct. 14, 2022 ~ Dec. 03, 2022

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Kunshan).

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	5
1.5 Modification of EUT	6
1.6 Testing Location	6
1.7 Test Software.....	7
1.8 Applicable Standards.....	7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1 Carrier Frequency and Channel	8
2.2 Test Mode.....	9
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	11
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example.....	11
3 TEST RESULT	12
3.1 6dB Bandwidth Measurement	12
3.2 Output Power Measurement.....	14
3.3 Power Spectral Density Measurement	15
3.4 Conducted Band Edges and Spurious Emission Measurement	17
3.5 Radiated Band Edges and Spurious Emission Measurement	36
3.6 AC Conducted Emission Measurement.....	40
3.7 Antenna Requirements.....	42
4 LIST OF MEASURING EQUIPMENT	43
5 UNCERTAINTY OF EVALUATION	44
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX C. RADIATED SPURIOUS EMISSION	
APPENDIX D. RADIATED SPURIOUS EMISSION PLOTS	
APPENDIX E. DUTY CYCLE PLOTS	
APPENDIX F. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR293023A	Rev. 01	Initial issue of report	Dec. 28, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.28 dB at 2483.880 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 4.78 dB at 0.527 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits.

Comments and Explanations:

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 General Description

1.1 Applicant

MeiG Smart Technology Co., Ltd

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

1.2 Manufacturer

MeiG Smart Technology Co., Ltd

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	CPE
Brand Name	MEIGLink
Model Name	SLT866
FCC ID	2APJ4-SLT866
IMEI Code	Conducted: : 864630066663518 Conduction: 864630066663344 Radiation: 864630066663484
HW Version	SLT866_V1.01_PCB
SW Version	SLT866_EQ100_C44_V1403
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2432 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	<Ant.0> 802.11b : 22.79 dBm (0.1901 W) 802.11g : 22.44 dBm (0.1754 W) <MIMO Ant. 0+1> 802.11n HT20 : 25.52 dBm (0.3565 W) 802.11n HT40 : 25.38 dBm (0.3451 W)
Antenna Type / Gain	<Ant 0>: Fixed Internal Antenna with gain 1.2 dBi <Ant 1>: Fixed Internal Antenna with gain 1.2 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

Note: For WLAN SISO & MIMO (CDD) mode, the whole testing has assessed only MIMO mode by referring to the higher normal conducted power.



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS	CN1257	314309

Test data subcontracted: Test case for Conducted Emission in section 3.6 of this report

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272



1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	5	2432	9	2452
	6	2437	10	2457
	7	2442	11	2462
	8	2447		

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Antenna

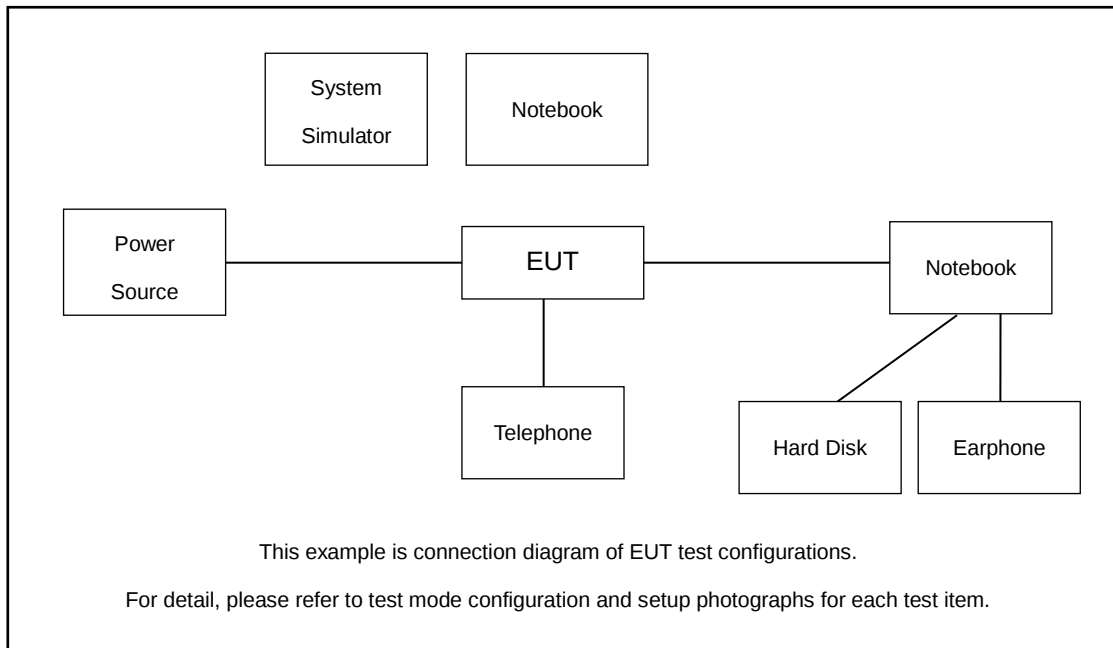
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Simultaneous transmission
802.11g N20_Tx_Ch11 + LTE Band48 Link

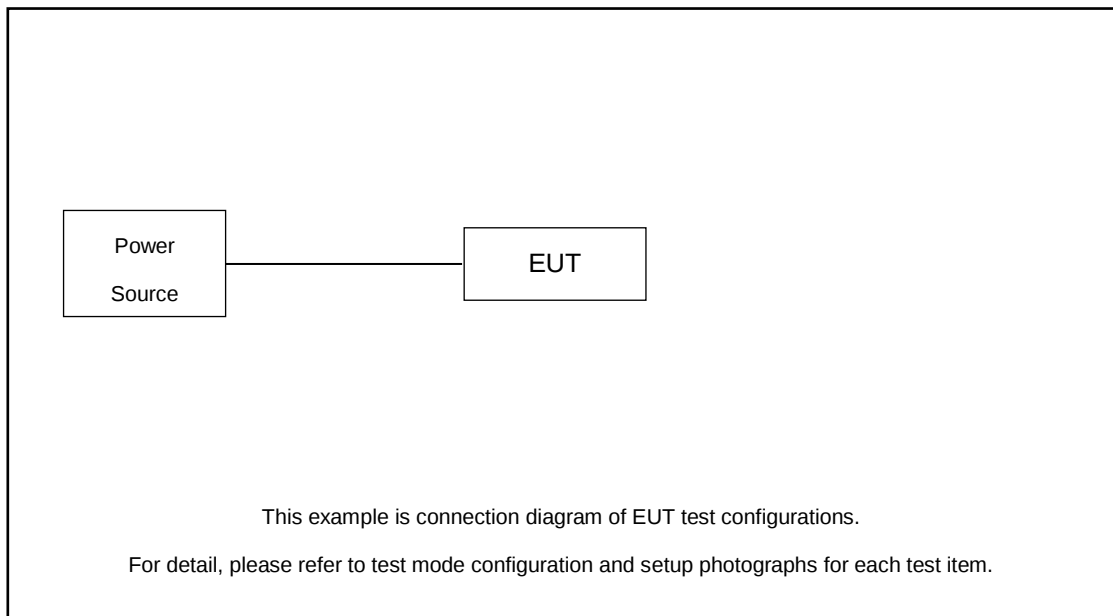
Test Cases	
AC Conducted Emission	Mode 1 :LTE Band 5 Idle + WLAN Link(2.4G) + full load + Power from Adapter 1
Remark: - For Radiated Test Cases, The tests were performance with Adapter1 - For Conducted Emission, the accessories are chosen from Part 15B worst case. - RSE Co-location modes are combination from the worst WLAN TX mode and WWAN Link mode	

2.3 Connection Diagram of Test System

For Conducted Emission:



For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Telephone	bubugao	HCD007(6082)TSD	N/A	N/A	N/A
5.	Earphone	Lenovo	P121	N/A	N/A	Unshielded,1.2m
6.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the Notebook under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 1.2 + 10 = 11.2 (dB)

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

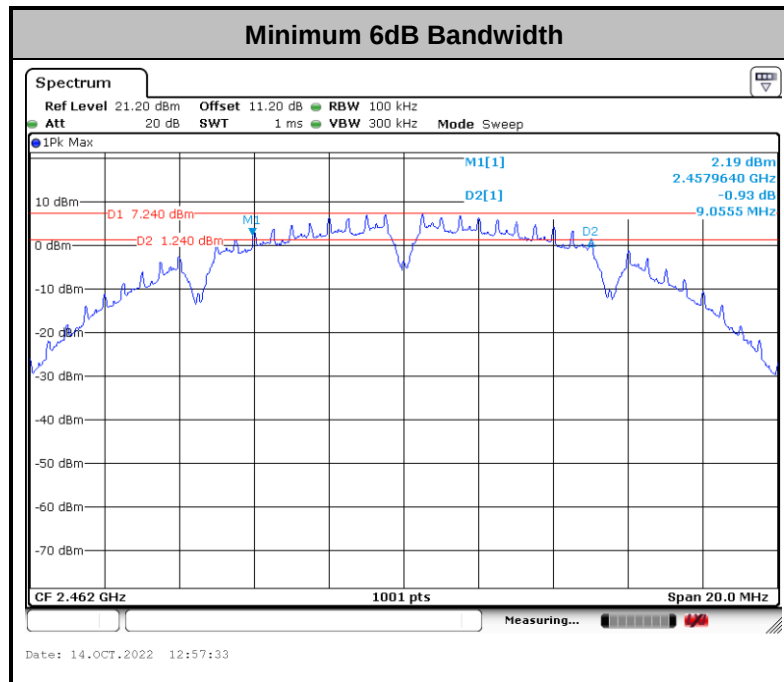
3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Occupied Bandwidth



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

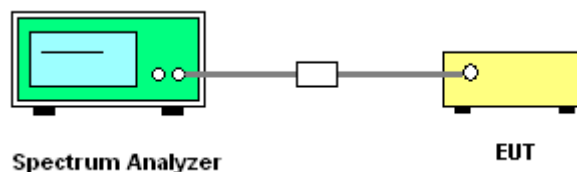
3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (b): Measure and sum spectral maxima across the outputs.

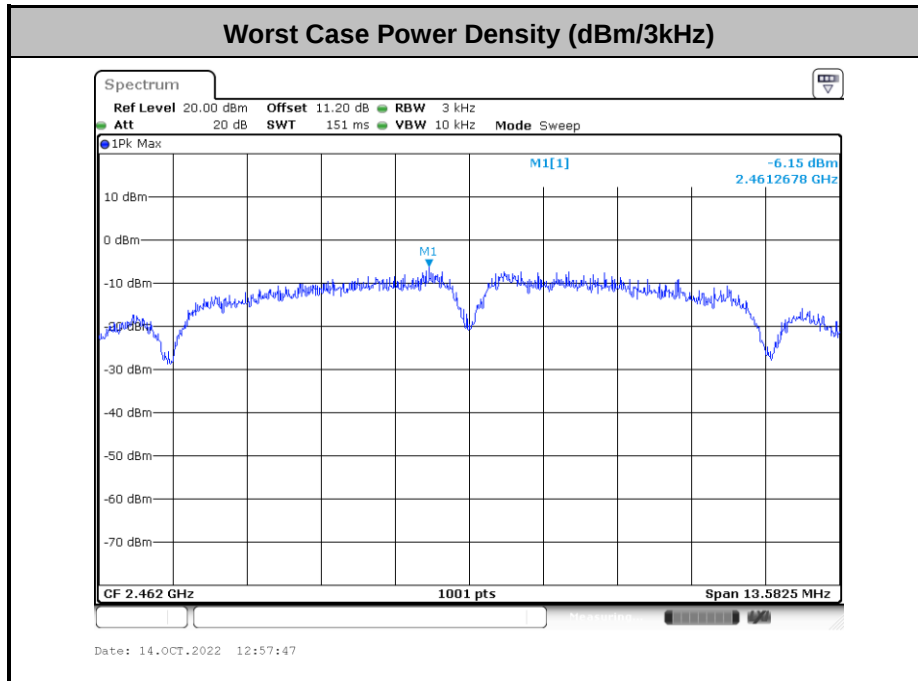
The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

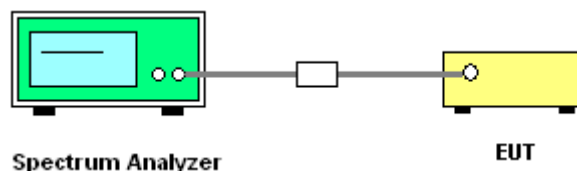
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



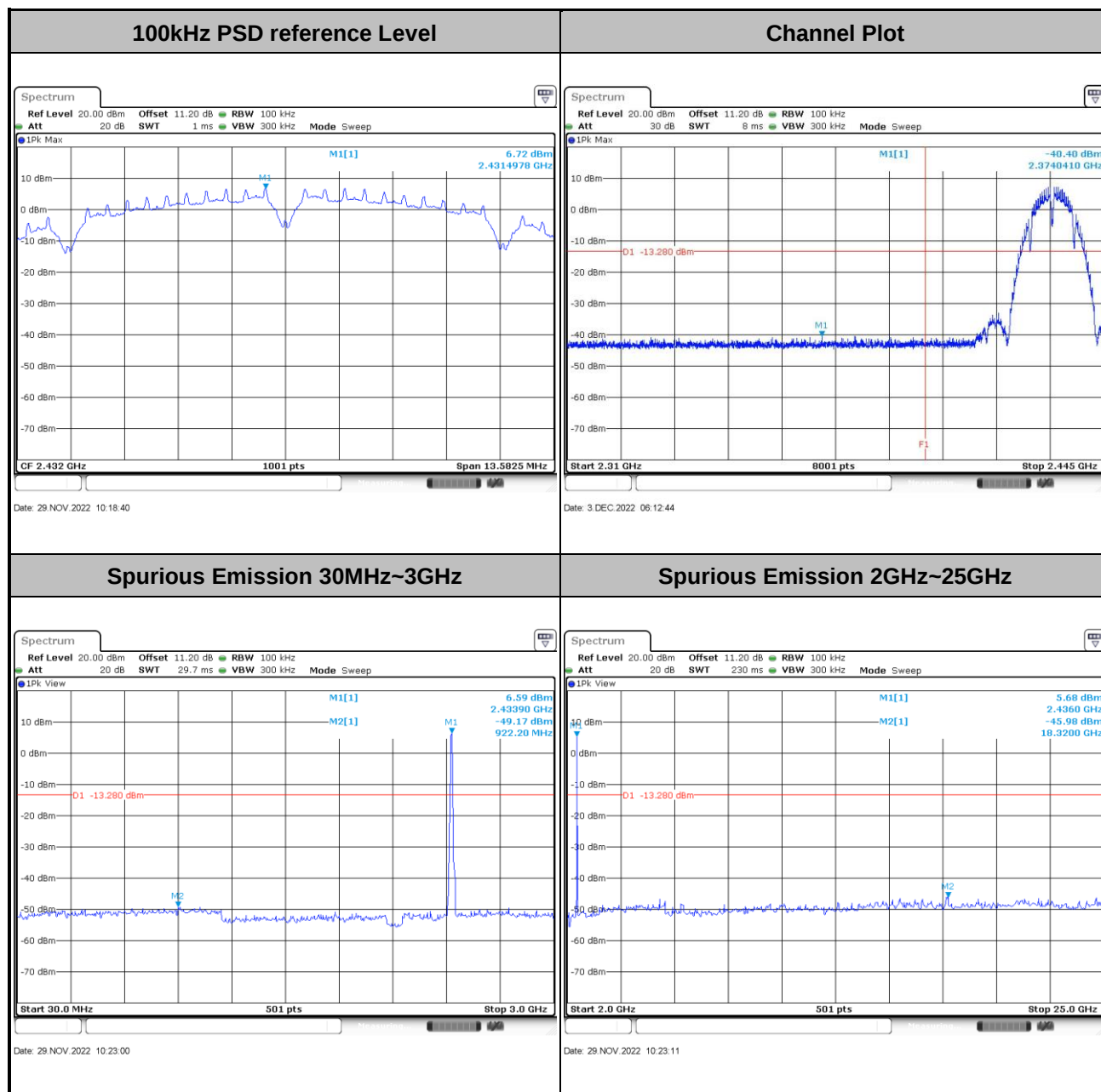


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

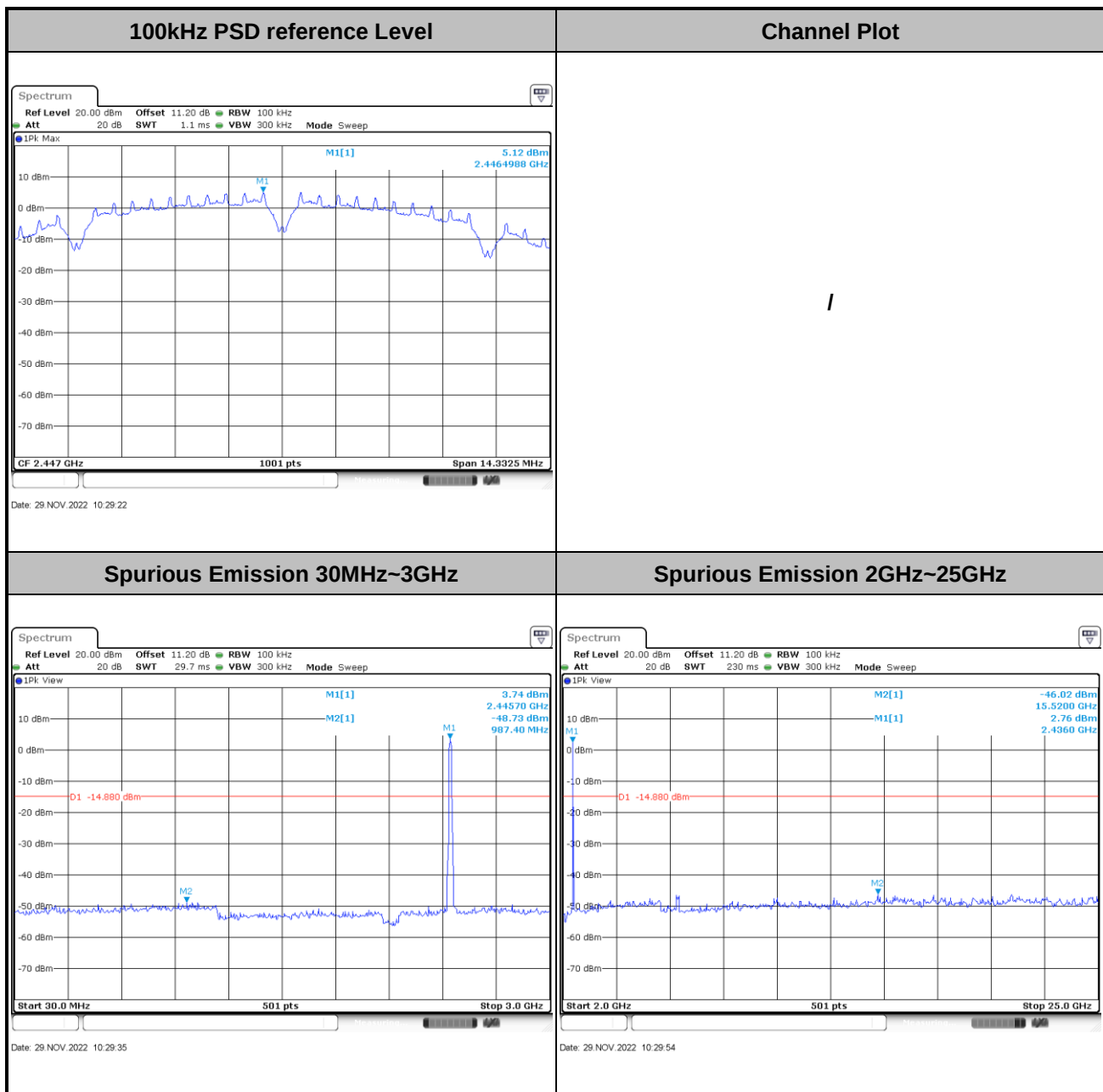
Test Engineer :	Liu Qiu Qiu	Temperature :	24~26°C
		Relative Humidity :	50~53%

Number of TX =1, Ant. 0 (Measured)

Test Mode :	802.11b	Test Channel :	05
-------------	---------	----------------	----

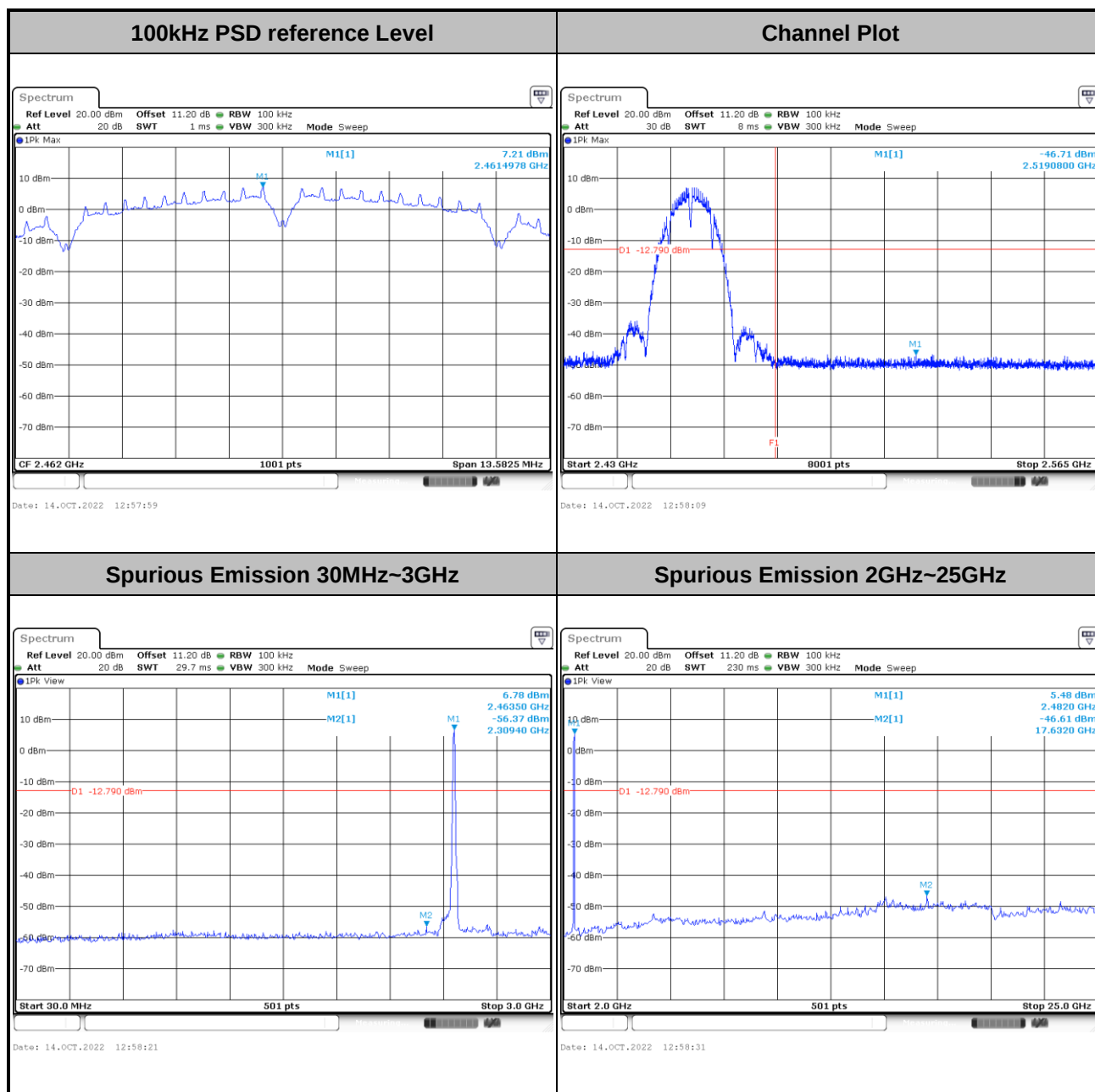


Test Mode :	802.11b	Test Channel :	08
-------------	---------	----------------	----



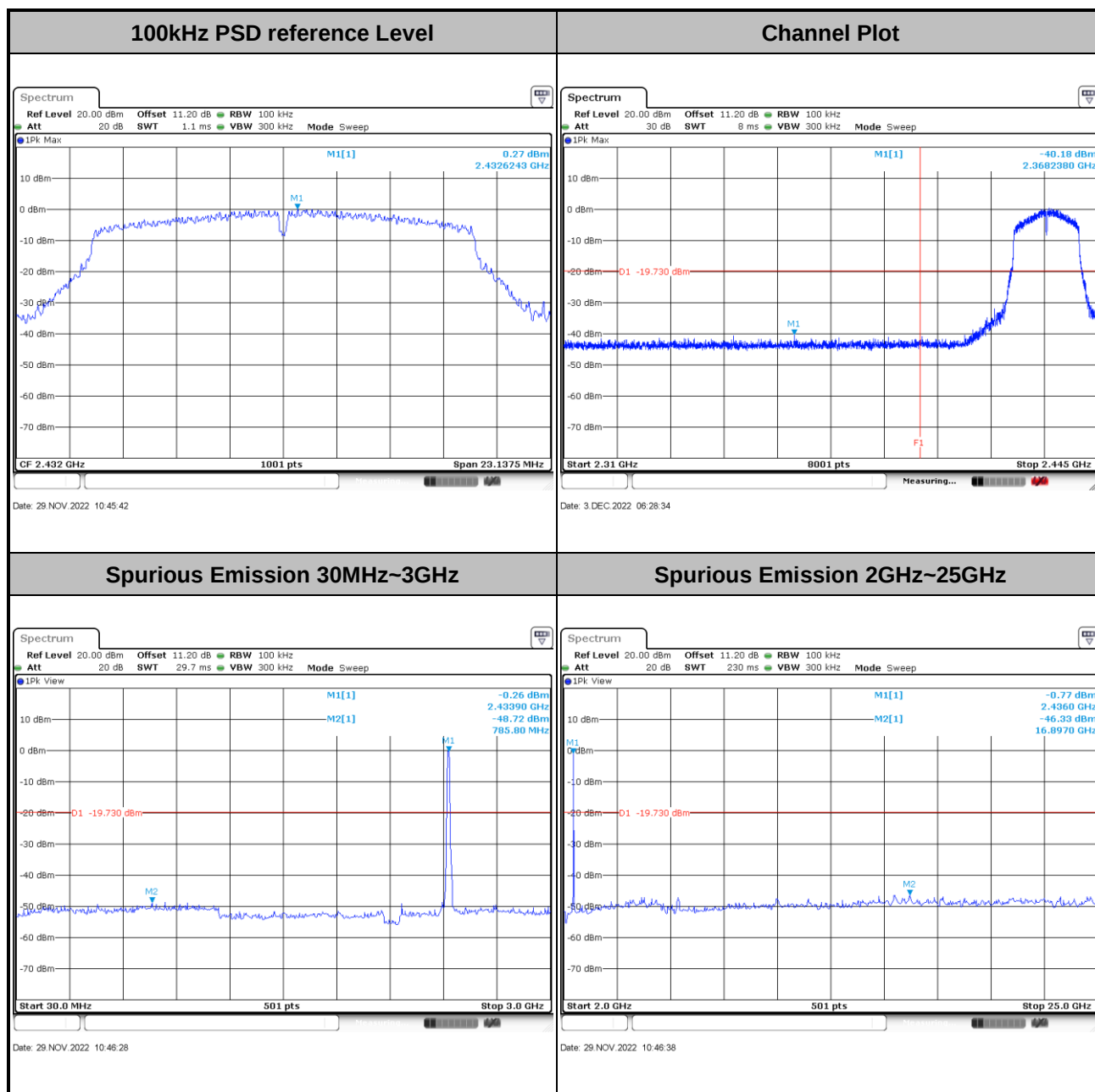


Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----





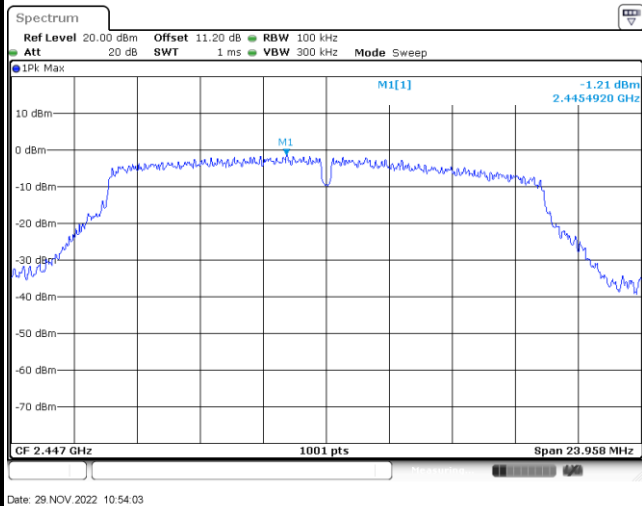
Test Mode :	802.11g	Test Channel :	05
-------------	---------	----------------	----





Test Mode :	802.11g	Test Channel :	08
-------------	---------	----------------	----

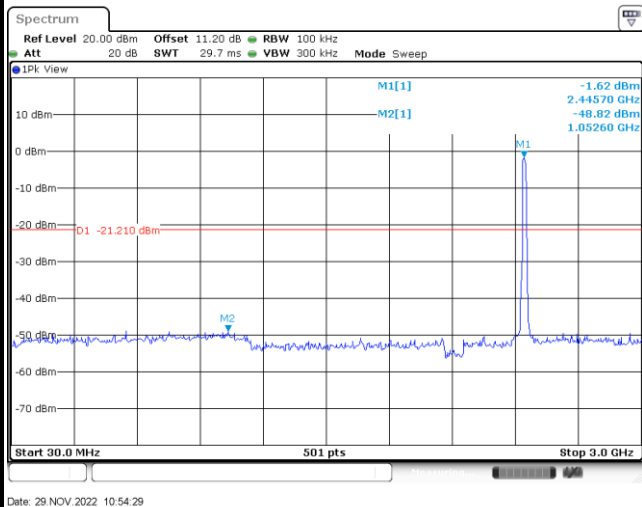
100kHz PSD reference Level



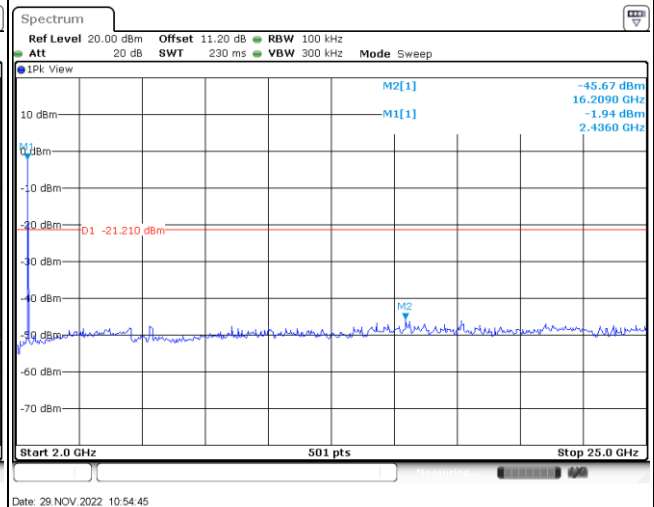
Channel Plot

/

Spurious Emission 30MHz~3GHz

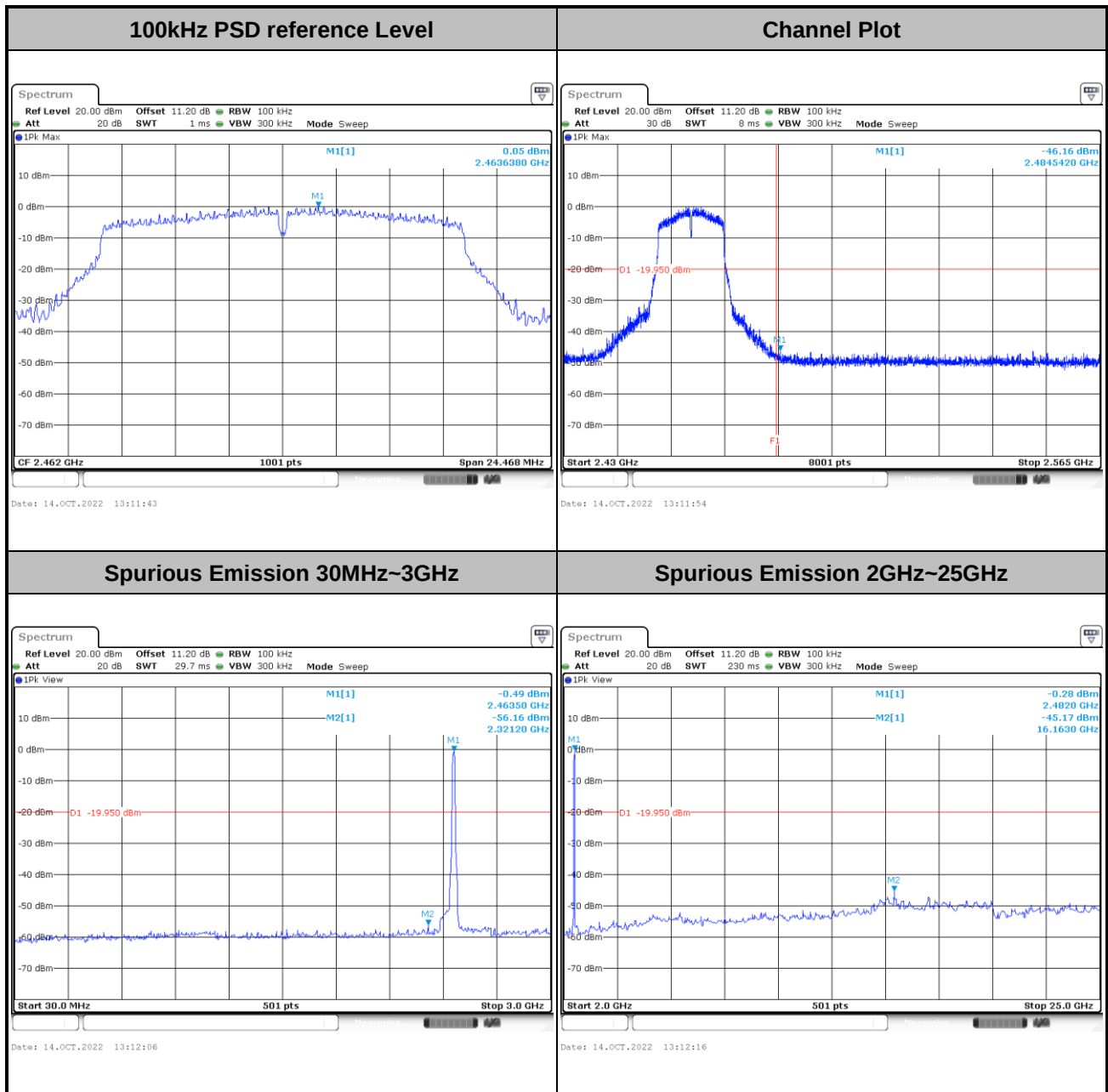


Spurious Emission 2GHz~25GHz





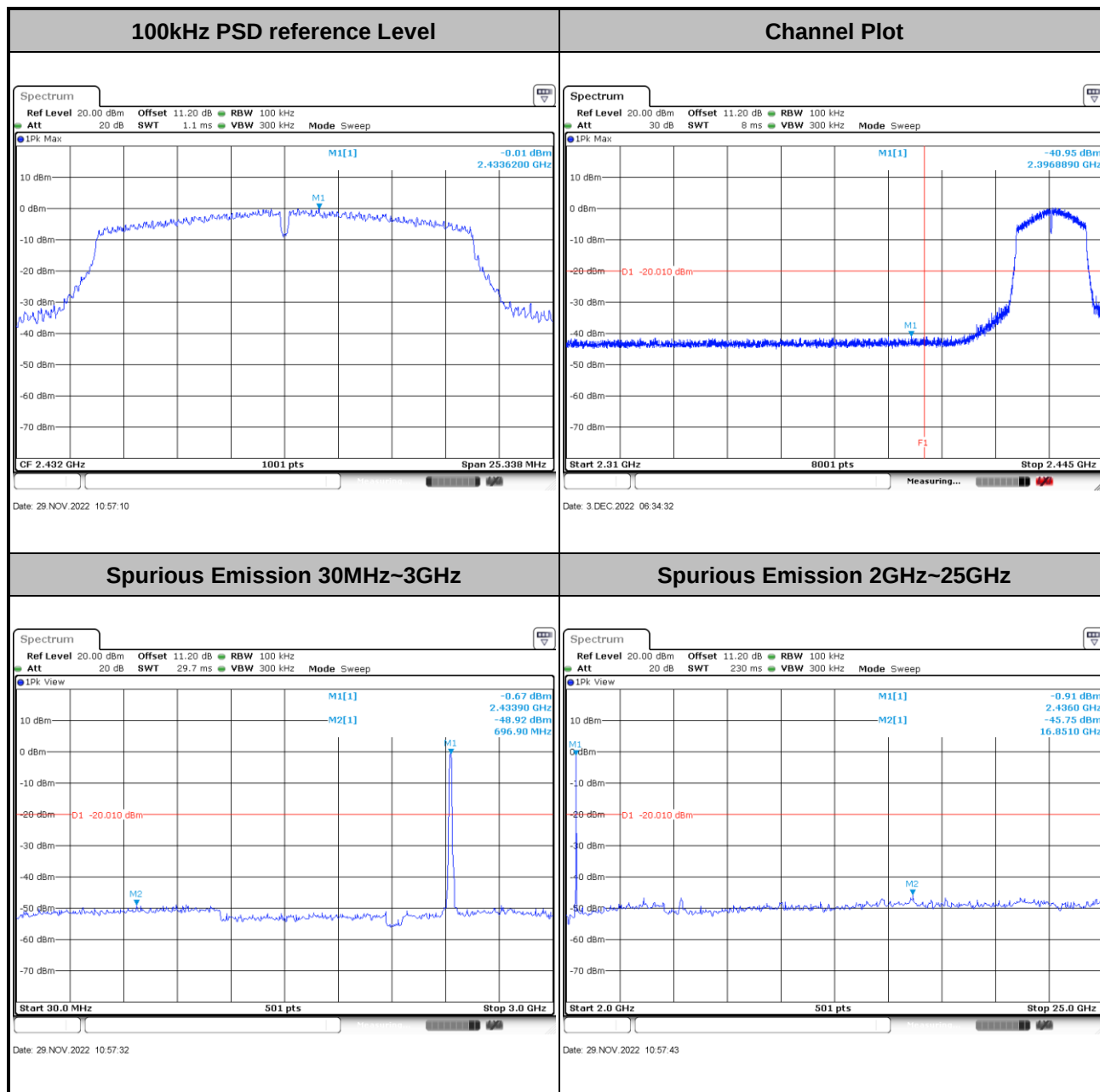
Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----



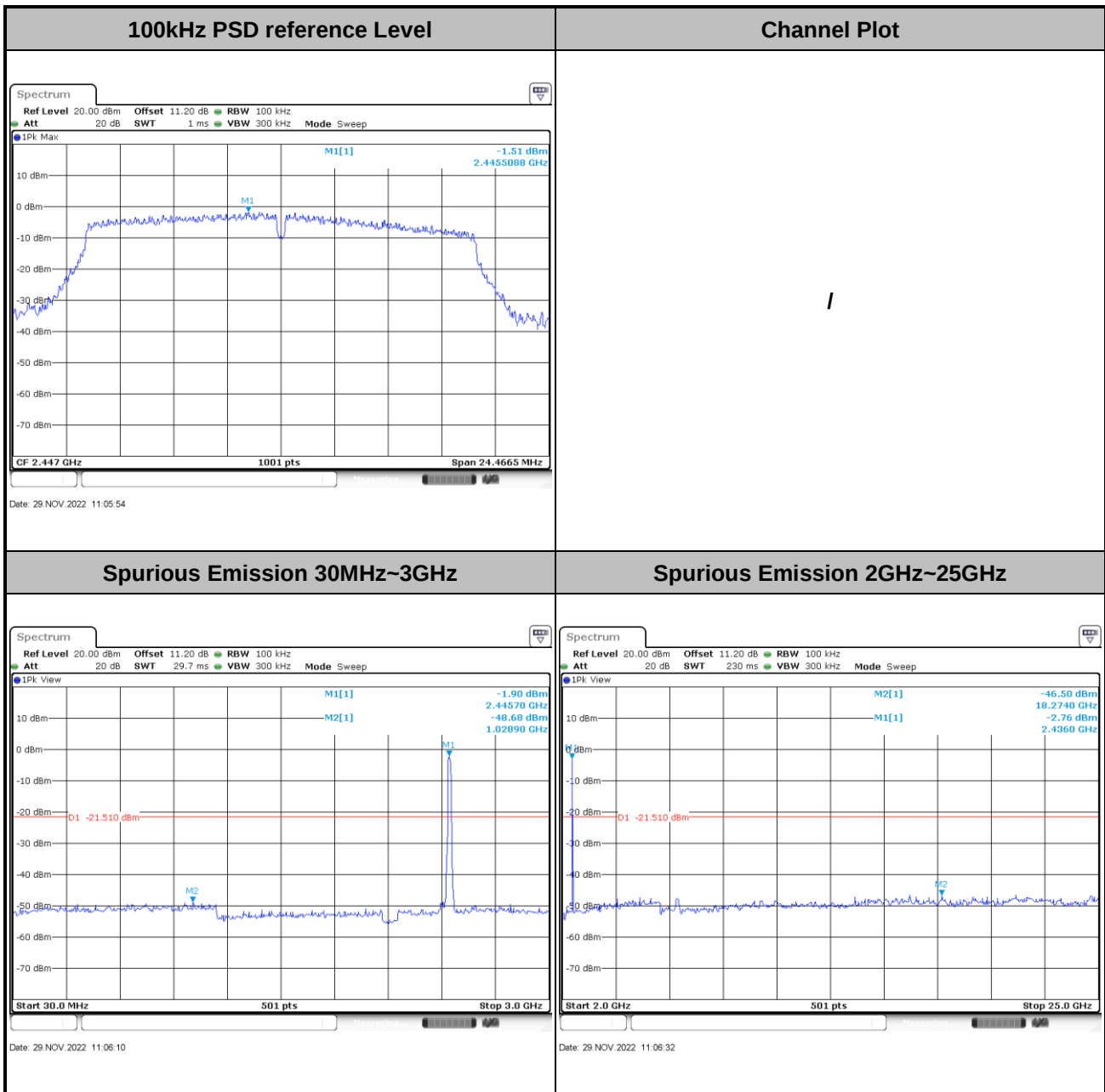


Number of TX = 2, Ant. 0 (Measured)

Test Mode :	802.11n HT20	Test Channel :	05
-------------	--------------	----------------	----

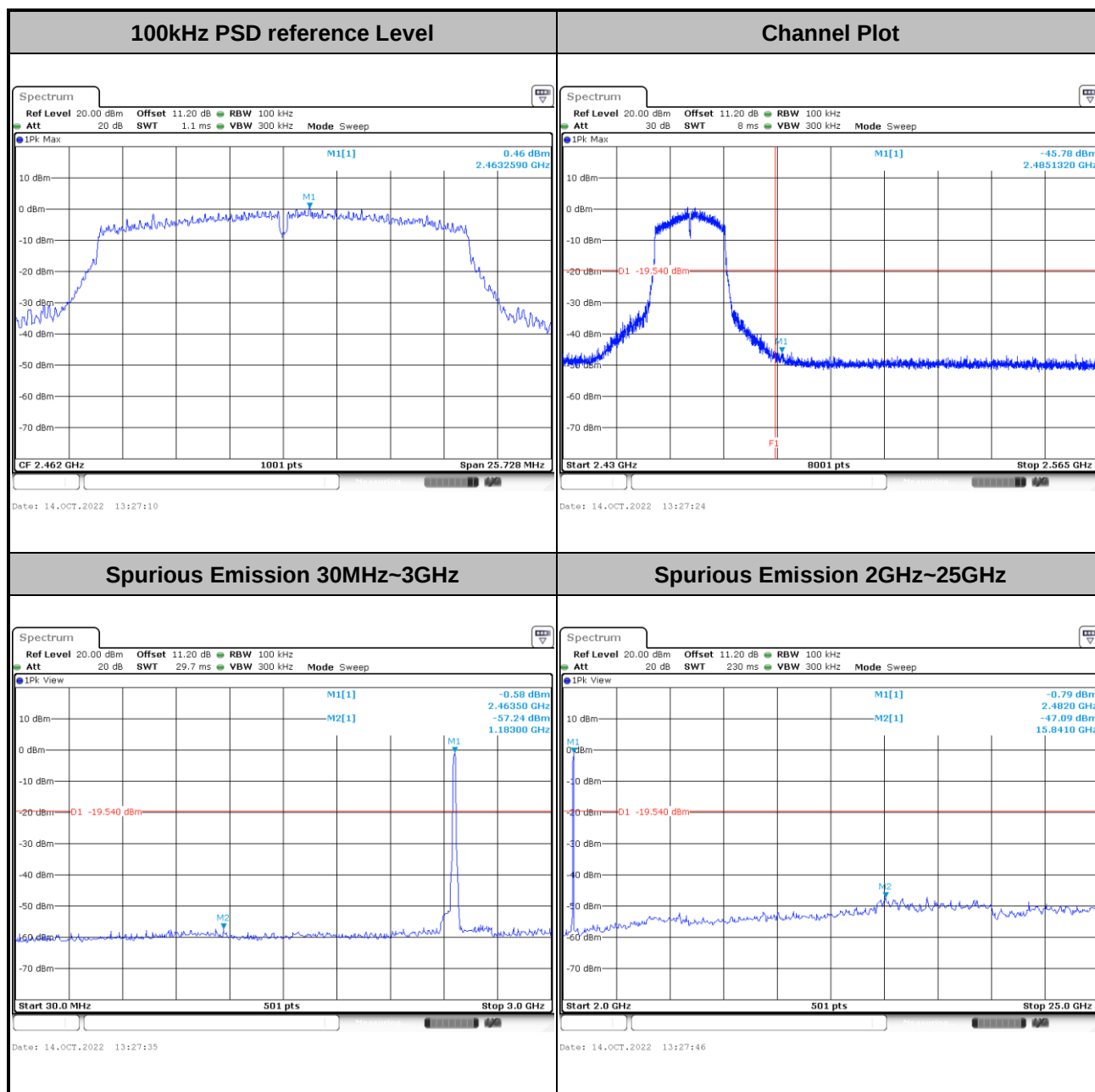


Test Mode :	802.11n HT20	Test Channel :	08
--------------------	--------------	-----------------------	----





Test Mode :	802.11n HT20	Test Channel :	11
-------------	--------------	----------------	----

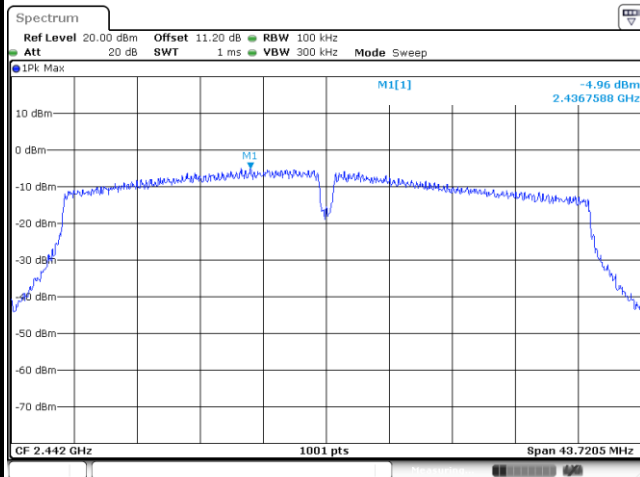




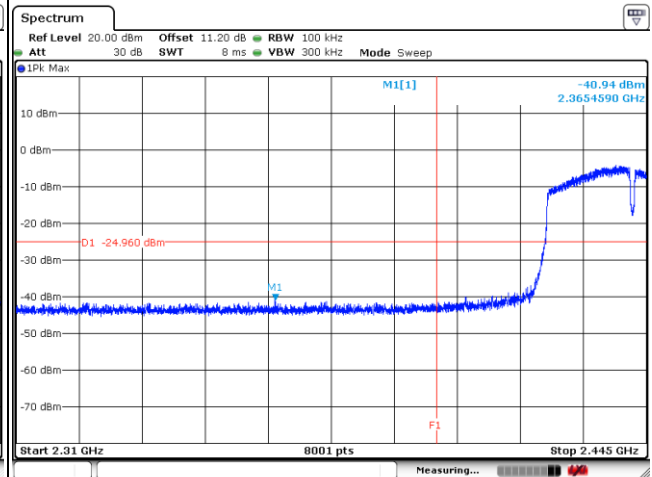
Test Mode : 802.11n HT40

Test Channel : 07

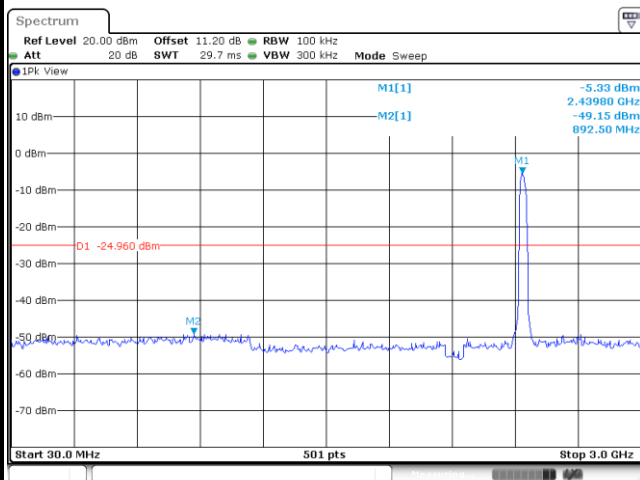
100kHz PSD reference Level



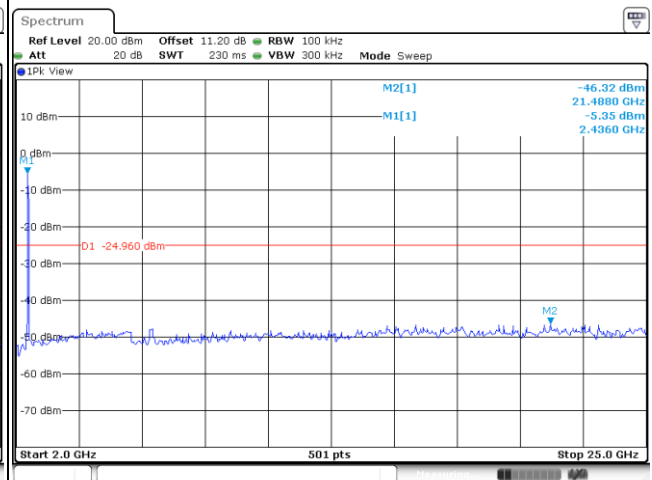
Channel Plot



Spurious Emission 30MHz~3GHz

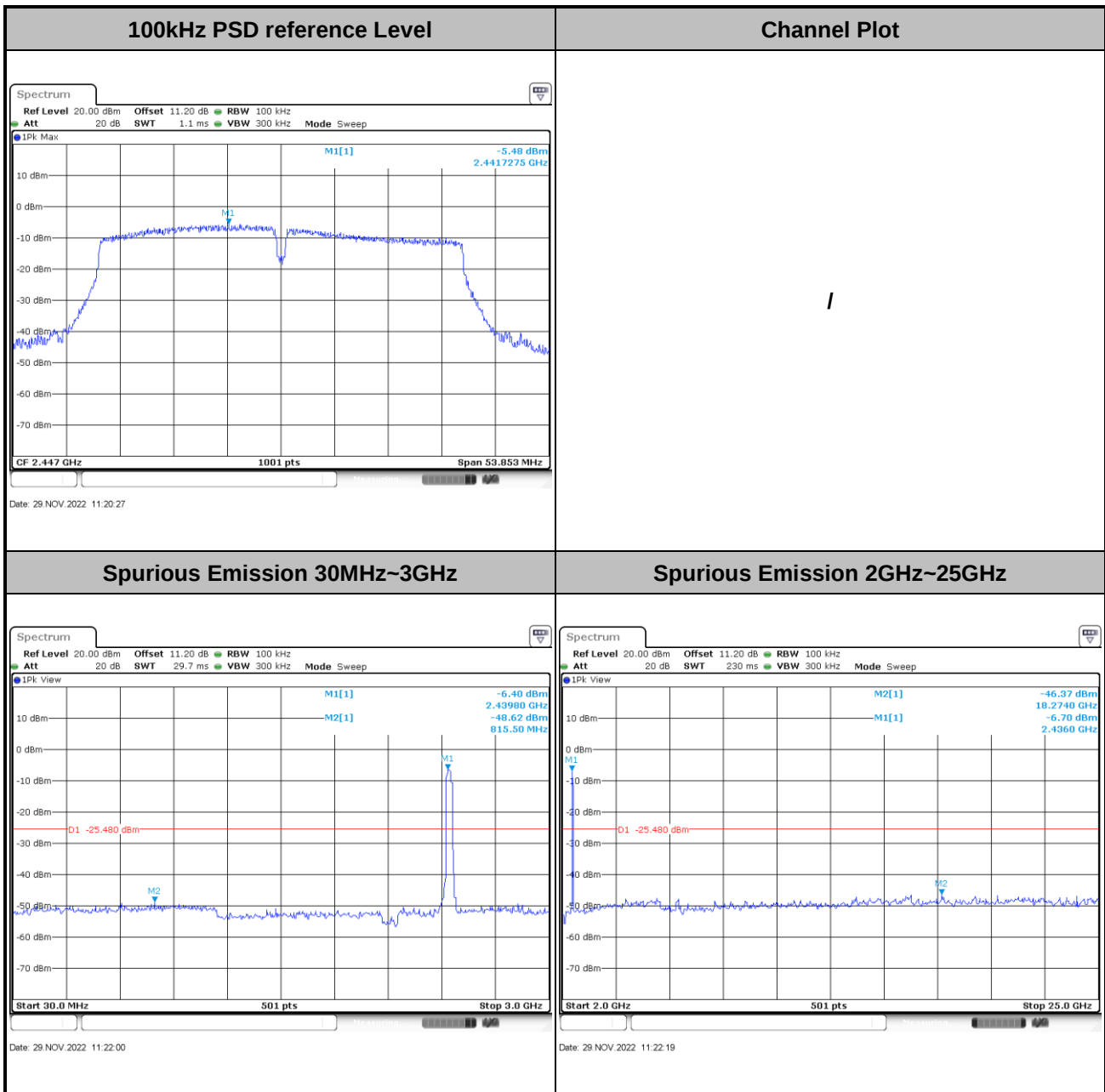


Spurious Emission 2GHz~25GHz



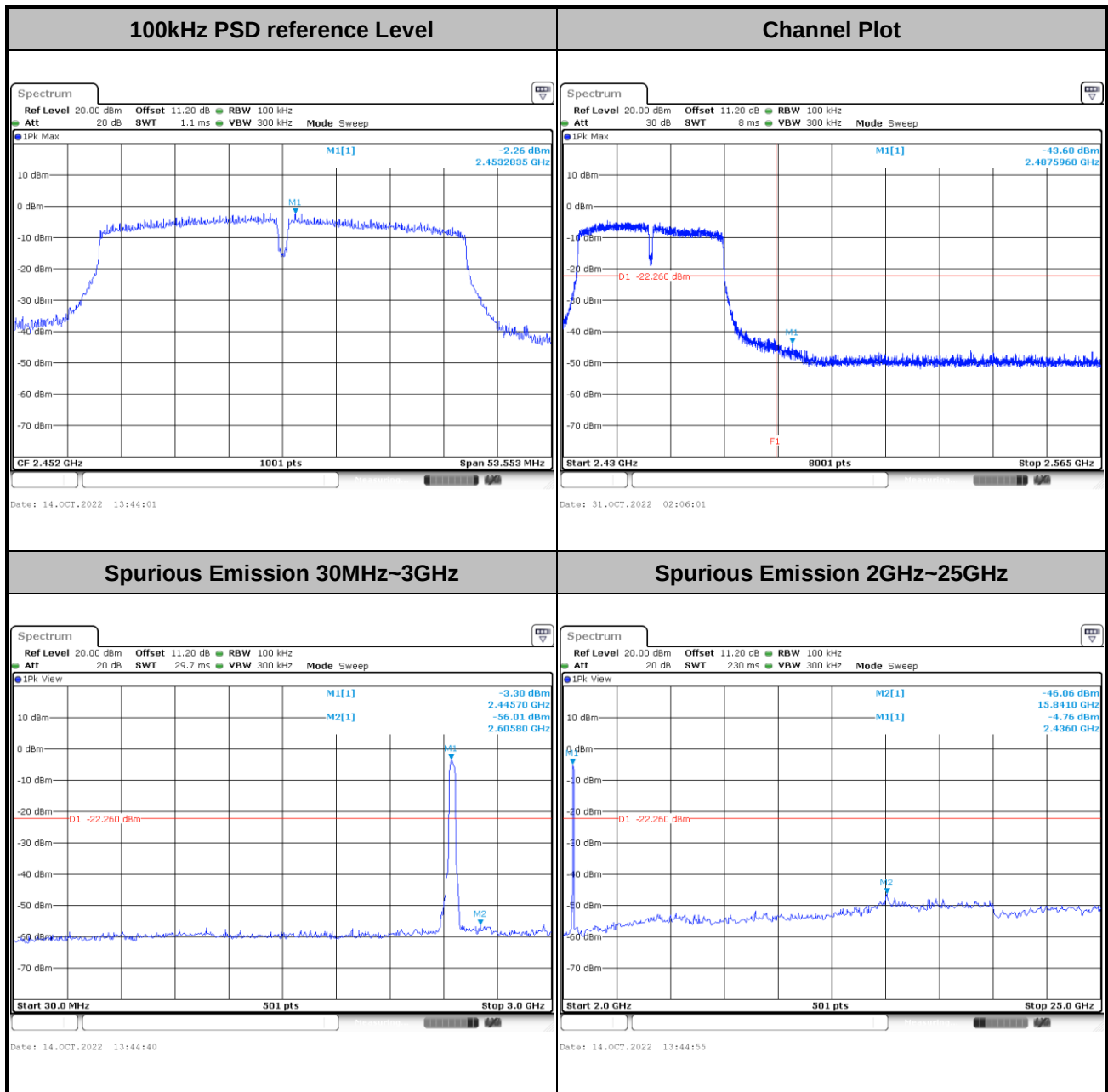


Test Mode :	802.11n HT40	Test Channel :	08
-------------	--------------	----------------	----



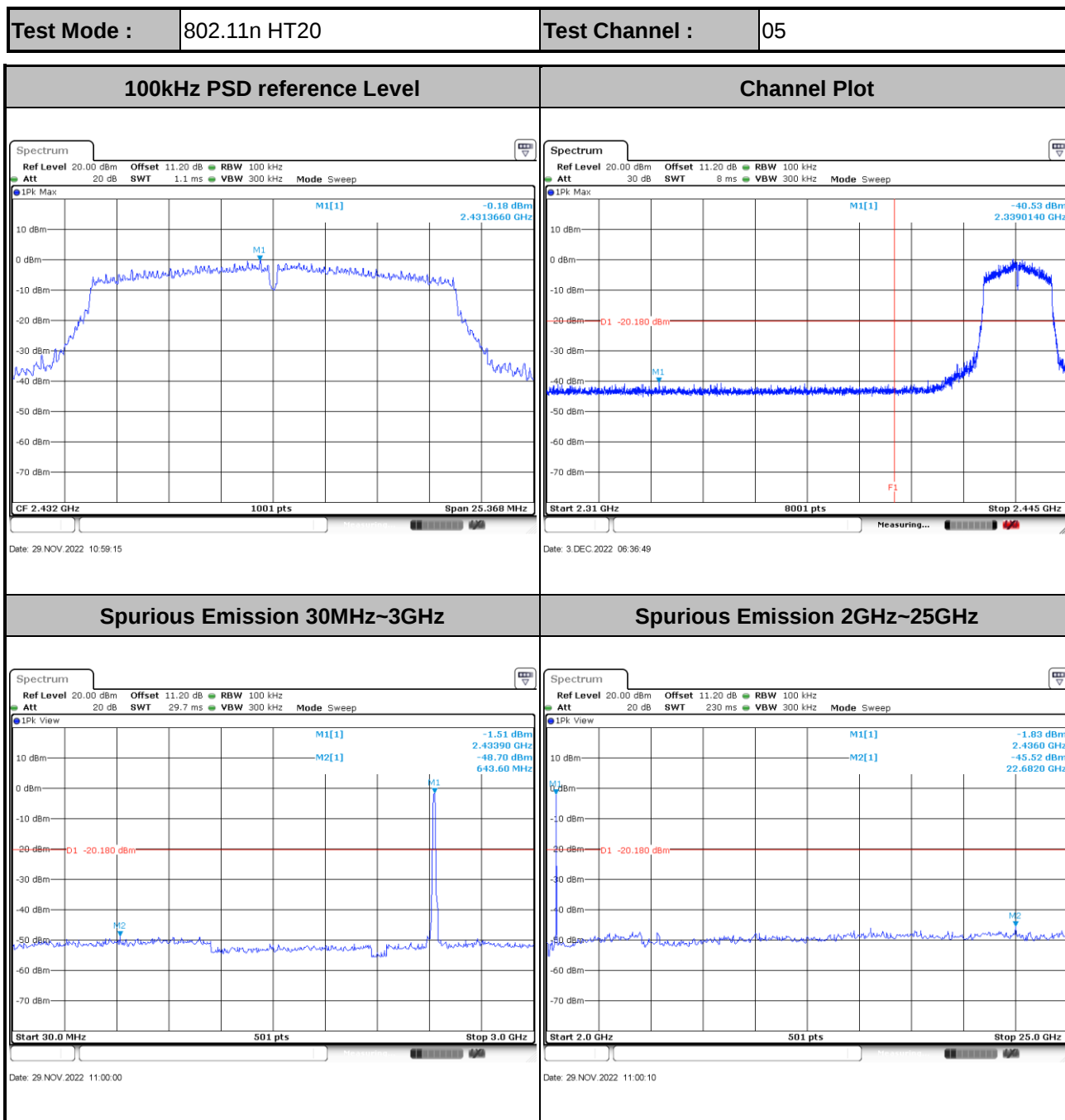


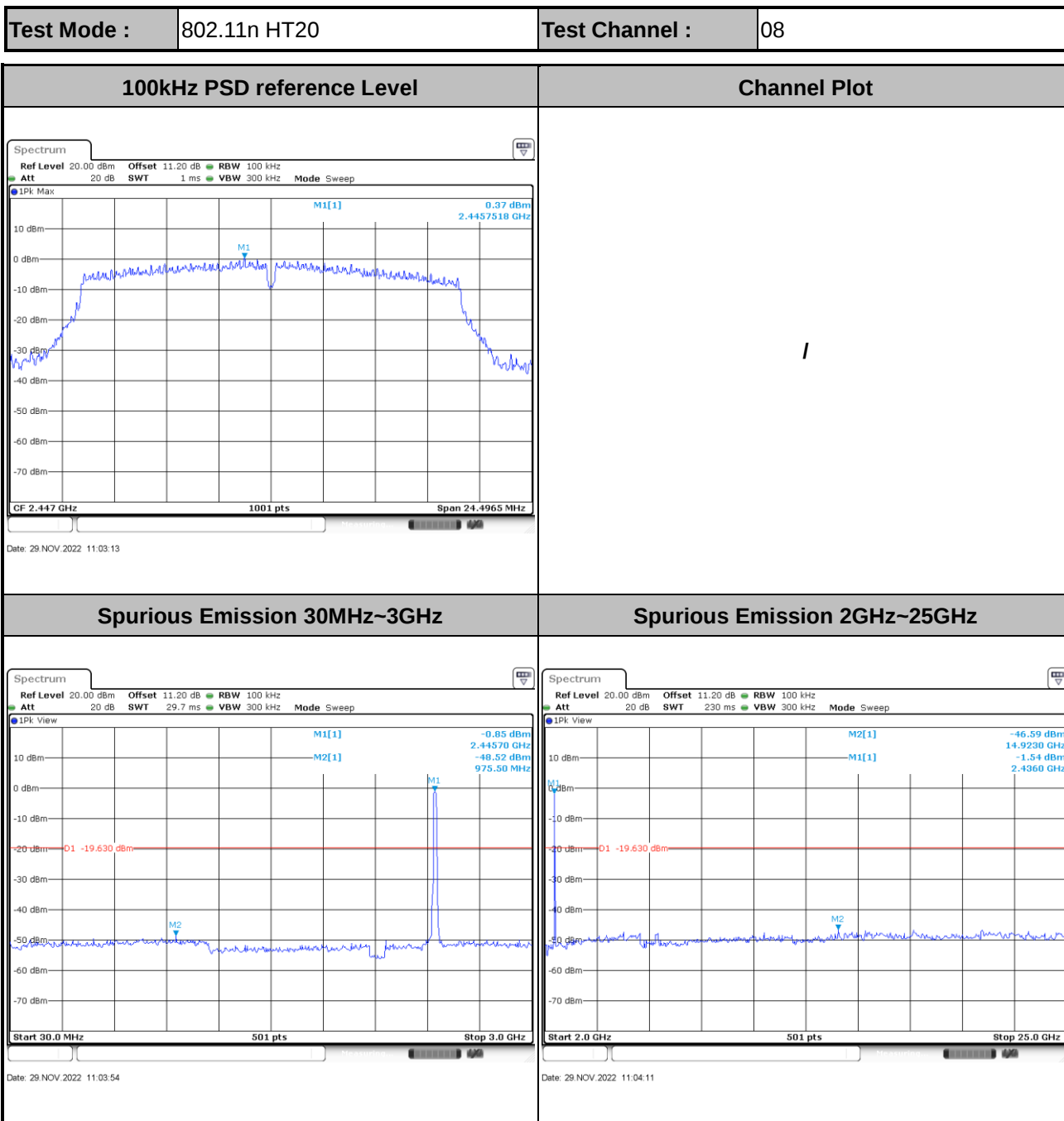
Test Mode :	802.11n HT40	Test Channel :	09
-------------	--------------	----------------	----

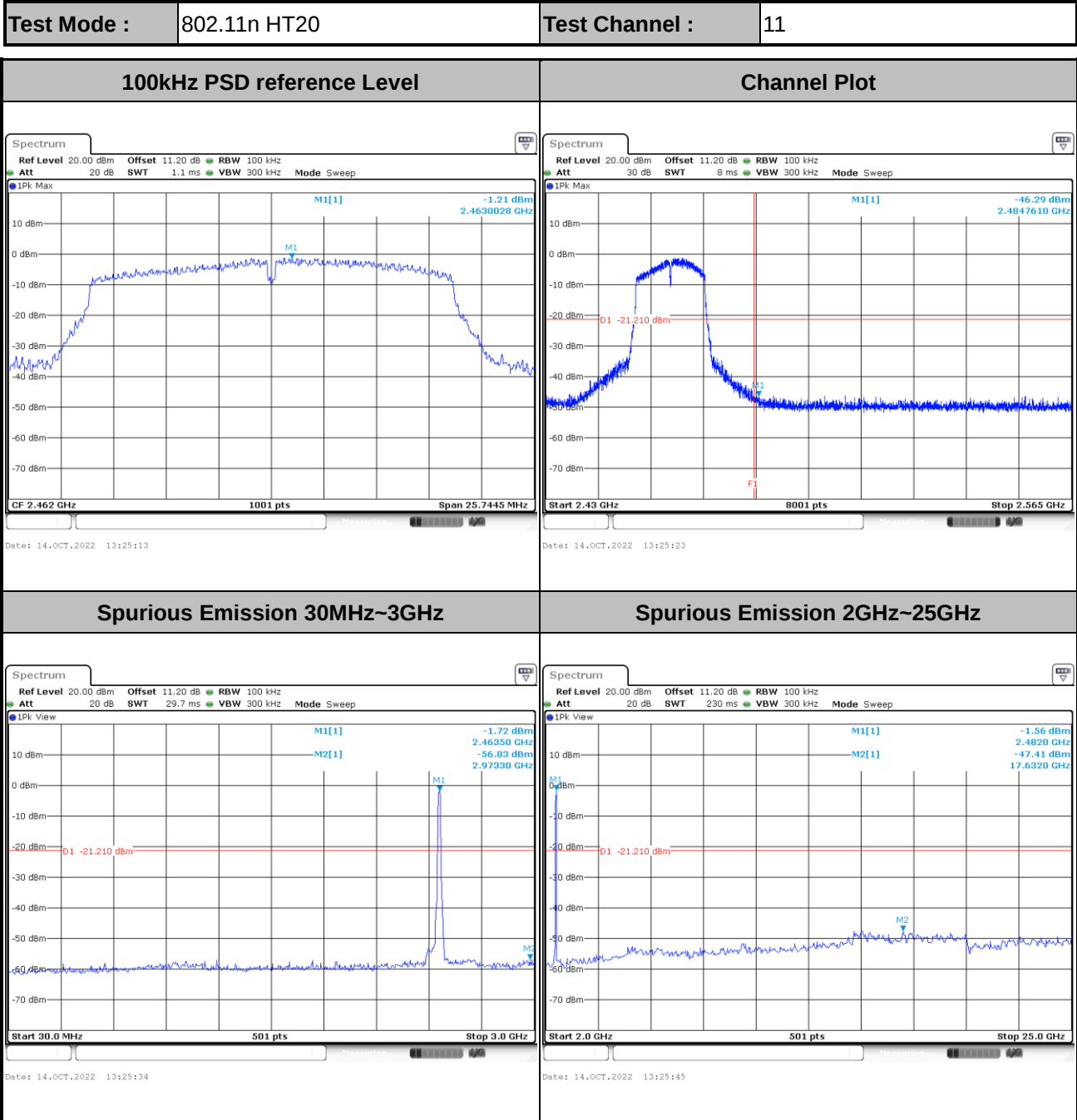


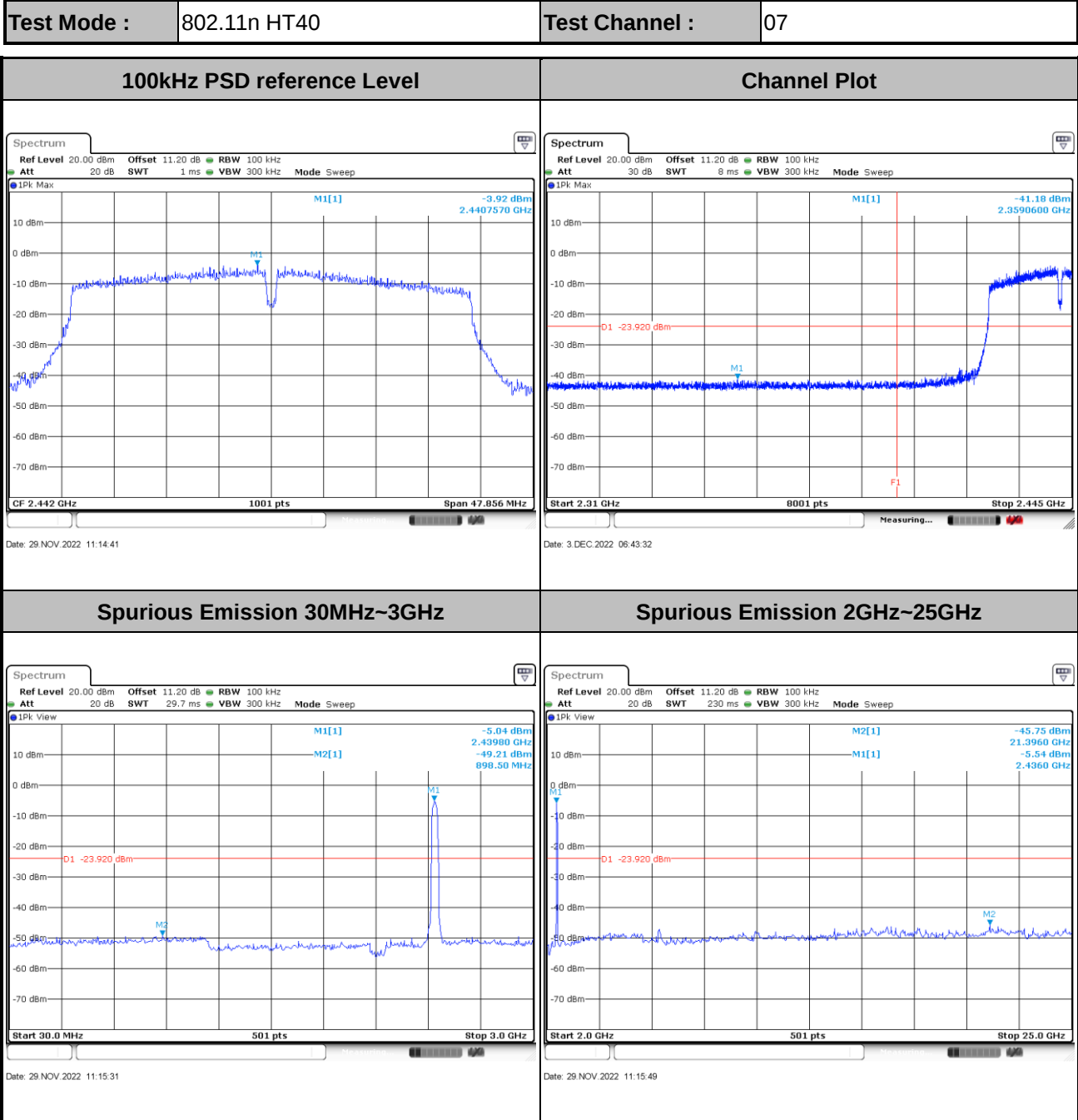


Number of TX = 2, Ant. 1 (Measured)



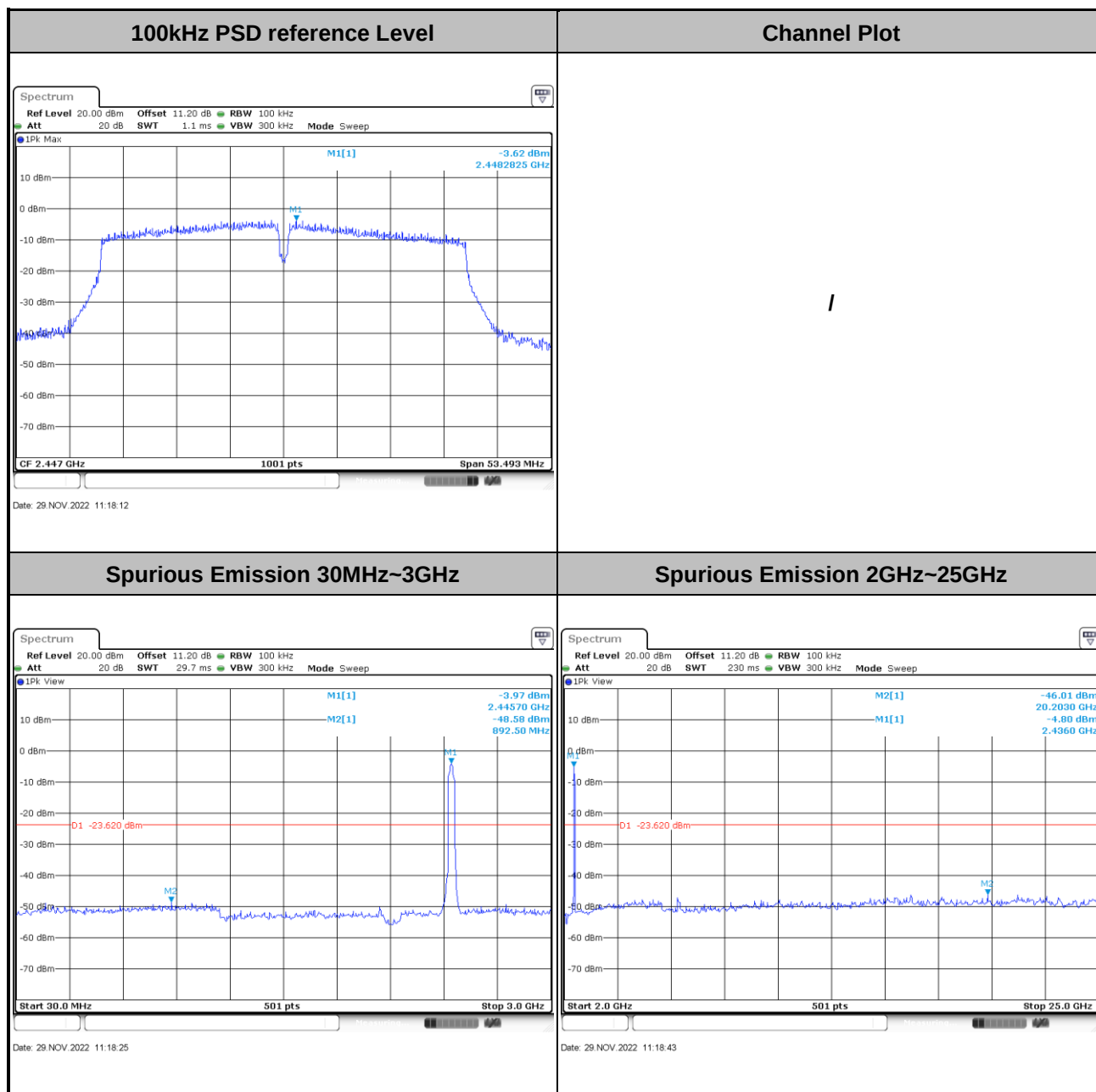


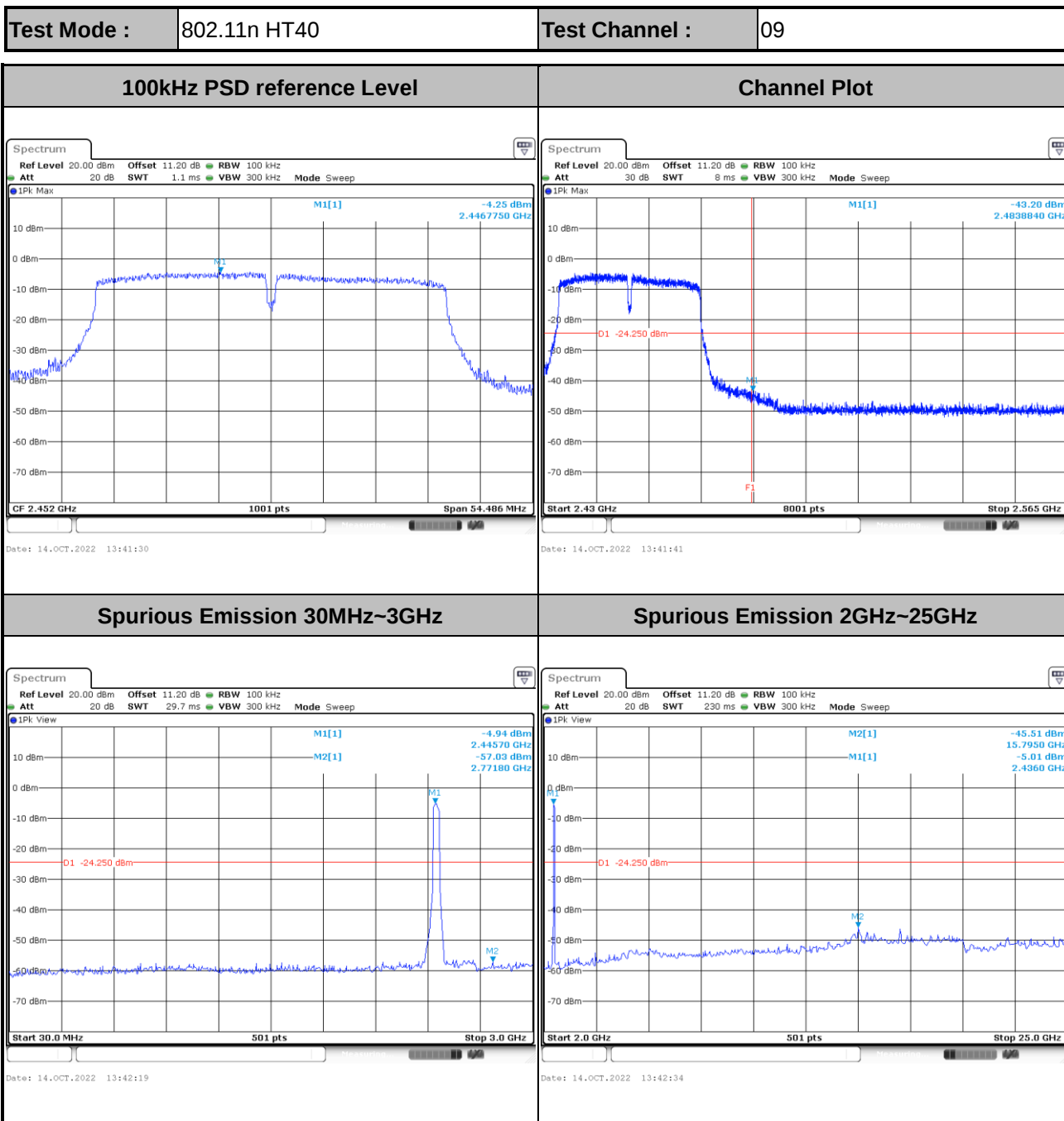






Test Mode :	802.11n HT40	Test Channel :	08
-------------	--------------	----------------	----





3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

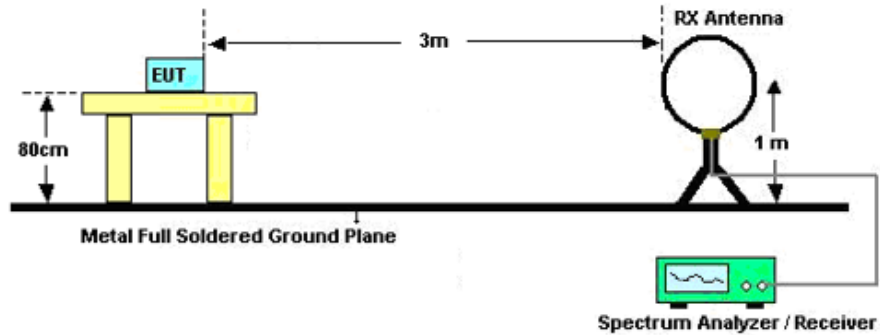
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

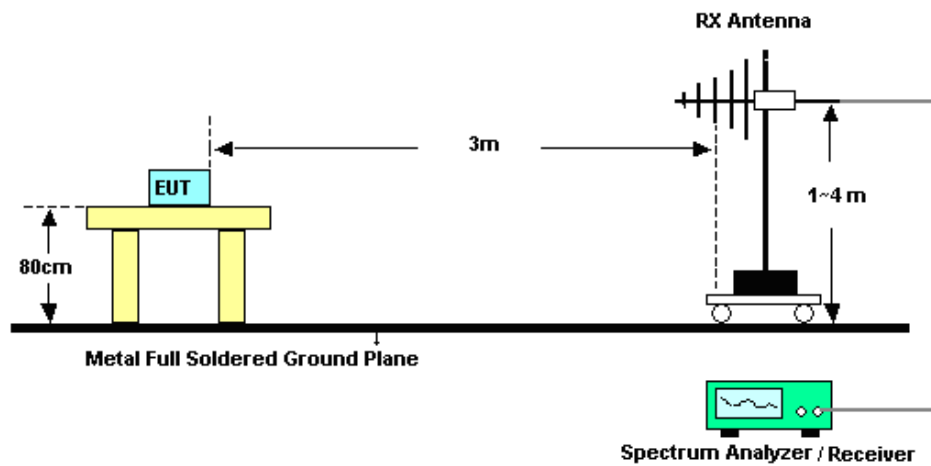
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

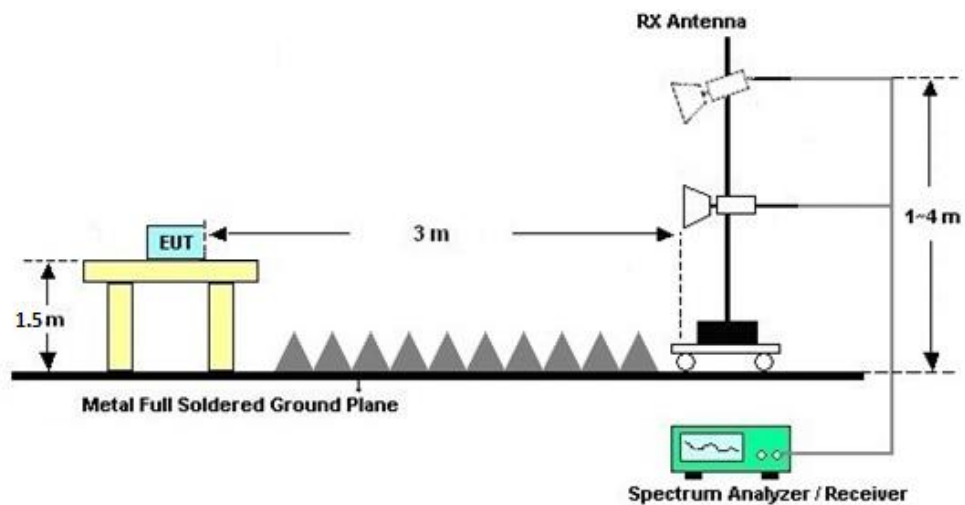
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C&D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

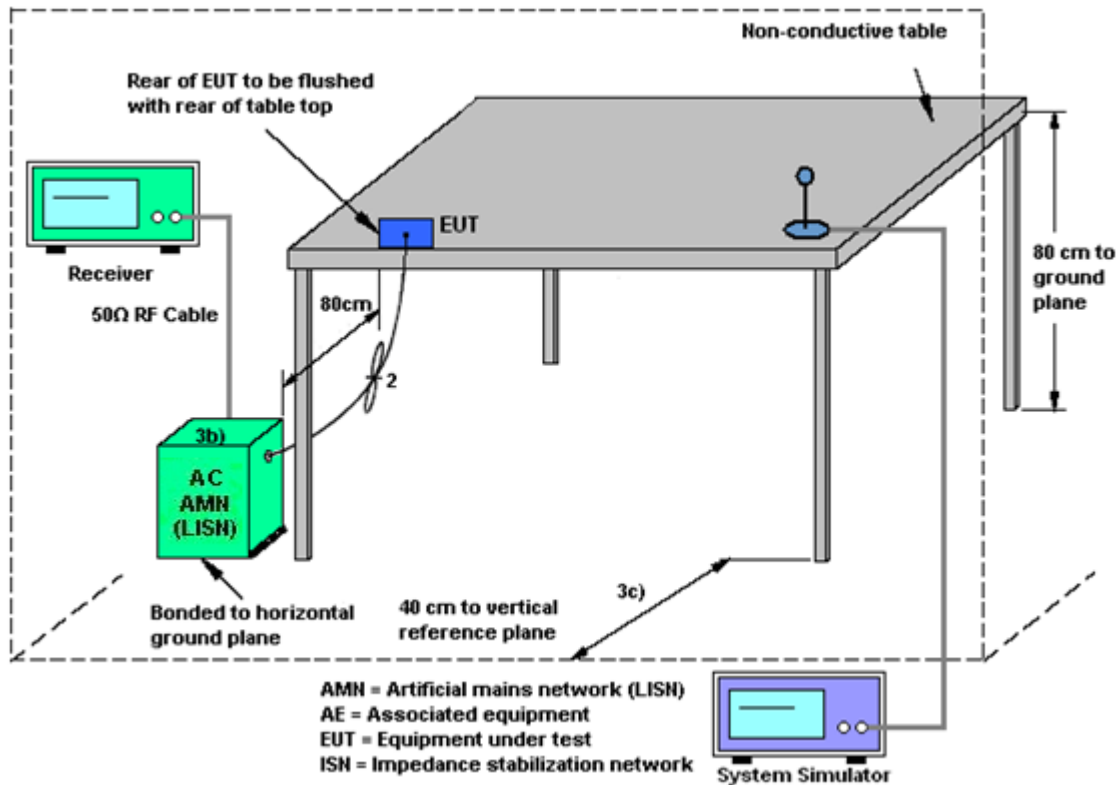
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
	Ant. 0	Ant. 1	DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	1.20	1.20	1.20	4.21	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Oct. 14, 2022~ Dec. 03, 2022	Apr. 08, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 28, 2022	Oct. 14, 2022~ Dec. 03, 2022	Dec. 27, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 28, 2022	Oct. 14, 2022~ Dec. 03, 2022	Dec. 27, 2023	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 06, 2022	Oct. 20, 2022~ Dec. 01, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 06, 2022	Oct. 20, 2022~ Dec. 01, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Oct. 20, 2022~ Dec. 01, 2022	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 09, 2021	Oct. 20, 2022~ Dec. 01, 2022	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-135 5	1GHz~18GHz	Apr. 08, 2022	Oct. 20, 2022~ Dec. 01, 2022	Apr. 07, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Oct. 20, 2022~ Dec. 01, 2022	Jul. 05, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 10, 2022	Oct. 20, 2022~ Dec. 01, 2022	Apr. 09, 2023	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 19, 2022	Oct. 20, 2022~ Dec. 01, 2022	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 20, 2022~ Dec. 01, 2022	Oct. 18, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5GHz	Dec. 27, 2022	Oct. 20, 2022~ Dec. 01, 2022	Dec. 26, 2023	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002 729	1 N/A	Nov. 11, 2021	Oct. 20, 2022~ Dec. 01, 2022	Nov. 10, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002 729	1 N/A	Nov. 10, 2022		Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 20, 2022~ Dec. 01, 2022	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 20, 2022~ Dec. 01, 2022	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Nov. 14, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Nov. 14, 2022	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Nov. 14, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Nov. 14, 2022	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 1.34 dB
Conducted Emissions	± 1.34 dB
Occupied Channel Bandwidth	± 0.13 %
Conducted Power Spectral Density	± 1.32 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.78dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9dB
---	-------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------

----- THE END -----



Appendix A. Conducted Test Results

Test Engineer:	zheng jianhan	Temperature:	21~25	°C
Test Date:	2022/10/14~2022/12/3	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 0	Ant 1	Ant 0	Ant 1		
11b	1Mbps	1	5	2432	14.19	-	9.06	-	0.50	Pass
11b	1Mbps	1	8	2447	14.54	-	9.55	-	0.50	Pass
11b	1Mbps	1	11	2462	14.24	-	9.06	-	0.50	Pass
11g	6Mbps	1	5	2432	17.38	-	15.43	-	0.50	Pass
11g	6Mbps	1	8	2447	17.63	-	15.97	-	0.50	Pass
11g	6Mbps	1	11	2462	17.28	-	16.31	-	0.50	Pass
HT20	MCS0	2	5	2432	18.13	18.13	16.89	16.91	0.50	Pass
HT20	MCS0	2	8	2447	18.43	18.13	16.31	16.33	0.50	Pass
HT20	MCS0	2	11	2462	18.13	18.18	17.15	17.16	0.50	Pass
HT40	MCS0	2	7	2442	35.96	36.06	29.15	31.90	0.50	Pass
HT40	MCS0	2	8	2447	36.36	36.26	35.90	35.66	0.50	Pass
HT40	MCS0	2	9	2452	36.26	36.46	35.70	36.32	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11b	1Mbps	1	5	2432	22.79	-	-	30.00	-	1.20	-	23.99	-	36.00	-	Pass
11b	1Mbps	1	8	2447	22.45	-	-	30.00	-	1.20	-	23.65	-	36.00	-	Pass
11b	1Mbps	1	11	2462	22.42	-	-	30.00	-	1.20	-	23.62	-	36.00	-	Pass
11g	6Mbps	1	5	2432	22.44	-	-	30.00	-	1.20	-	23.64	-	36.00	-	Pass
11g	6Mbps	1	8	2447	22.35	-	-	30.00	-	1.20	-	23.55	-	36.00	-	Pass
11g	6Mbps	1	11	2462	22.36	-	-	30.00	-	1.20	-	23.56	-	36.00	-	Pass
HT20	MCS0	2	5	2432	22.57	22.34	25.47	30.00		1.20		26.67		36.00		Pass
HT20	MCS0	2	8	2447	22.45	22.57	25.52	30.00		1.20		26.72		36.00		Pass
HT20	MCS0	2	11	2462	22.38	22.34	25.37	30.00		1.20		26.57		36.00		Pass
HT40	MCS0	2	7	2442	21.67	22.15	24.93	30.00		1.20		26.13		36.00		Pass
HT40	MCS0	2	8	2447	22.35	22.37	25.37	30.00		1.20		26.57		36.00		Pass
HT40	MCS0	2	9	2452	22.28	22.46	25.38	30.00		1.20		26.58		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11b	1Mbps	1	5	2432	16.20	-	-	30.00	-	1.20	-	17.40	-	36.00	-	Pass
11b	1Mbps	1	8	2447	16.30	-		30.00	-	1.20	-	17.50	-	36.00	-	Pass
11b	1Mbps	1	11	2462	15.70	-		30.00	-	1.20	-	16.90	-	36.00	-	Pass
11g	6Mbps	1	5	2432	12.60	-		30.00	-	1.20	-	13.80	-	36.00	-	Pass
11g	6Mbps	1	8	2447	13.20	-		30.00	-	1.20	-	14.40	-	36.00	-	Pass
11g	6Mbps	1	11	2462	12.90	-		30.00	-	1.20	-	14.10	-	36.00	-	Pass
HT20	MCS0	2	5	2432	12.90	13.10	16.01	30.00		1.20		17.21		36.00		Pass
HT20	MCS0	2	8	2447	13.20	14.00	16.63	30.00		1.20		17.83		36.00		Pass
HT20	MCS0	2	11	2462	12.70	12.20	15.47	30.00		1.20		16.67		36.00		Pass
HT40	MCS0	2	7	2442	11.60	11.40	14.51	30.00		1.20		15.71		36.00		Pass
HT40	MCS0	2	8	2447	13.20	13.60	16.41	30.00		1.20		17.61		36.00		Pass
HT40	MCS0	2	9	2452	12.80	12.40	15.61	30.00		1.20		16.81		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

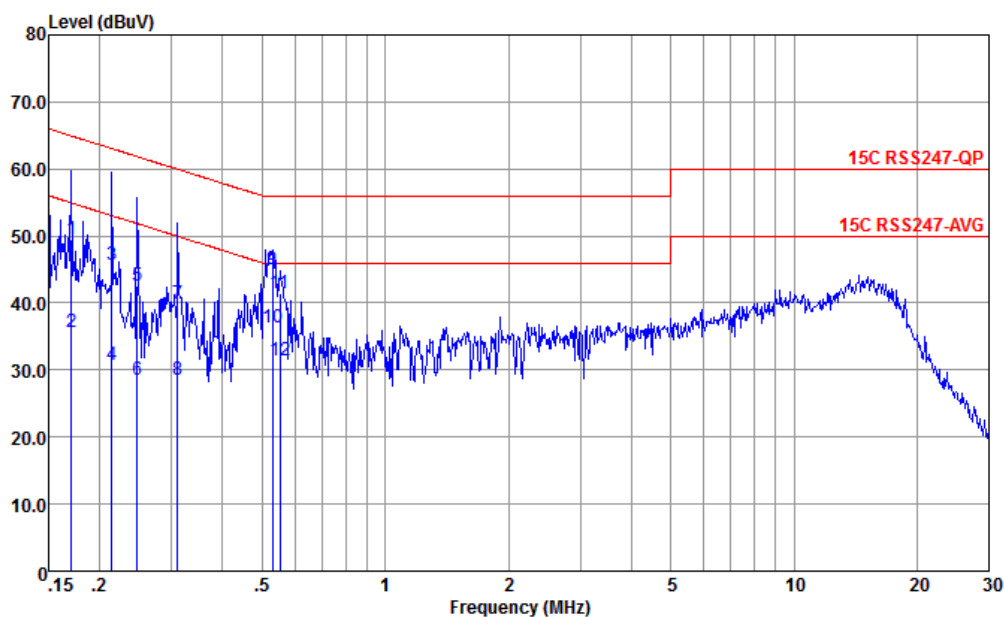
2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 0	Ant 1	Worse + 3.01	Ant 0	Ant 1	Ant 0	Ant 1	
11b	1Mbps	1	5	2432	-6.93	-	-	1.20	-	8.00	-	Pass
11b	1Mbps	1	8	2447	-8.14	-	-	1.20	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-6.15	-	-	1.20	-	8.00	-	Pass
11g	6Mbps	1	5	2432	-10.64	-	-	1.20	-	8.00	-	Pass
11g	6Mbps	1	8	2447	-11.86	-	-	1.20	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-11.26	-	-	1.20	-	8.00	-	Pass
HT20	MCS0	2	5	2432	-11.47	-12.98	-8.46	4.21		8.00		Pass
HT20	MCS0	2	8	2447	-13.45	-12.33	-9.32	4.21		8.00		Pass
HT20	MCS0	2	11	2462	-11.59	-12.16	-8.58	4.21		8.00		Pass
HT40	MCS0	2	7	2442	-16.93	-16.52	-13.51	4.21		8.00		Pass
HT40	MCS0	2	8	2447	-17.99	-16.63	-13.62	4.21		8.00		Pass
HT40	MCS0	2	9	2452	-14.07	-15.08	-11.06	4.21		8.00		Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

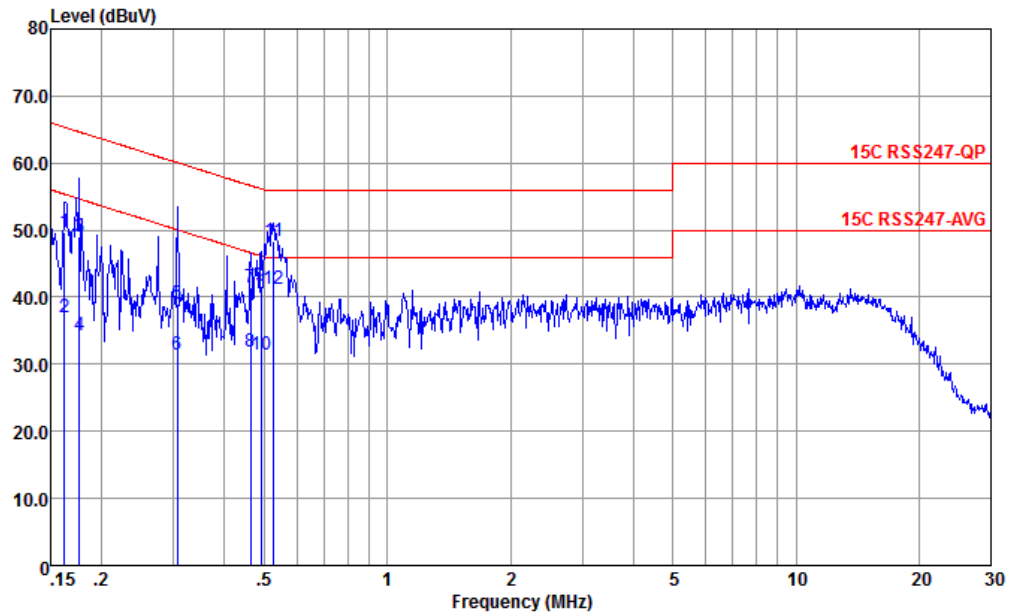


Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.170	49.37	-15.57	64.94	38.89	0.05	10.43	QP
2	0.170	35.67	-19.27	54.94	25.19	0.05	10.43	Average
3	0.214	45.64	-17.41	63.05	35.20	0.03	10.41	QP
4	0.214	30.74	-22.31	53.05	20.30	0.03	10.41	Average
5	0.247	42.62	-19.24	61.86	32.20	0.04	10.38	QP
6	0.247	28.62	-23.24	51.86	18.20	0.04	10.38	Average
7	0.310	39.90	-20.07	59.97	29.51	0.05	10.34	QP
8	0.310	28.60	-21.37	49.97	18.21	0.05	10.34	Average
9	0.529	45.06	-10.94	56.00	34.90	-0.04	10.20	QP
10 *	0.529	36.26	-9.74	46.00	26.10	-0.04	10.20	Average
11	0.552	41.35	-14.65	56.00	31.20	-0.05	10.20	QP
12	0.552	31.35	-14.65	46.00	21.20	-0.05	10.20	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.162	49.66	-15.68	65.34	39.19	0.04	10.43	QP
2	0.162	37.06	-18.28	55.34	26.59	0.04	10.43	Average
3	0.177	48.97	-15.67	64.64	38.51	0.04	10.42	QP
4	0.177	34.37	-20.27	54.64	23.91	0.04	10.42	Average
5	0.307	38.89	-21.17	60.06	28.59	-0.05	10.35	QP
6	0.307	31.49	-18.57	50.06	21.19	-0.05	10.35	Average
7	0.464	41.36	-15.27	56.63	31.20	-0.08	10.24	QP
8	0.464	31.76	-14.87	46.63	21.60	-0.08	10.24	Average
9	0.491	41.64	-14.50	56.14	31.50	-0.08	10.22	QP
10	0.491	31.34	-14.80	46.14	21.20	-0.08	10.22	Average
11	0.527	48.32	-7.68	56.00	38.20	-0.08	10.20	QP
12 *	0.527	41.22	-4.78	46.00	31.10	-0.08	10.20	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Test Engineer :	HuaCong Liang	Temperature :	24~25°C
		Relative Humidity :	48~49%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 05 2432MHz		2364.04	50.45	-23.55	74	47.21	32.15	4.77	33.68	249	128	P	H
		2389.52	40.39	-13.61	54	37.03	32.21	4.81	33.66	249	128	A	H
	*	2432	101.28	-	-	97.75	32.32	4.86	33.65	249	128	P	H
	*	2432	98.47	-	-	94.94	32.32	4.86	33.65	249	128	A	H
		2487.33	51.23	-22.77	74	47.46	32.47	4.92	33.62	249	128	P	H
		2499.37	40.58	-13.42	54	36.76	32.5	4.92	33.6	249	128	A	H
		2328.06	51.58	-22.42	74	48.51	32.05	4.73	33.71	100	202	P	V
		2387.84	42.56	-11.44	54	39.2	32.21	4.81	33.66	100	202	A	V
	*	2432	113.85	-	-	110.32	32.32	4.86	33.65	100	202	P	V
	*	2432	110.7	-	-	107.17	32.32	4.86	33.65	100	202	A	V
		2485.44	51.67	-22.33	74	47.91	32.46	4.92	33.62	100	202	P	V
		2483.69	41.39	-12.61	54	37.63	32.46	4.92	33.62	100	202	A	V
802.11b CH 11 2462MHz	*	2462	100.31	-	-	96.62	32.4	4.92	33.63	121	297	P	H
	*	2462	97.28	-	-	93.59	32.4	4.92	33.63	121	297	A	H
		2494.72	51.77	-22.23	74	47.93	32.49	4.95	33.6	121	297	P	H
		2487.48	40.93	-13.07	54	37.13	32.47	4.95	33.62	121	297	A	H
	*	2462	112.17	-	-	108.48	32.4	4.92	33.63	147	26	P	V
	*	2462	109.17	-	-	105.48	32.4	4.92	33.63	147	26	A	V
		2487.2	54.43	-19.57	74	50.63	32.47	4.95	33.62	147	26	P	V
		2485.6	44.74	-9.26	54	40.95	32.46	4.95	33.62	147	26	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 0	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 05 2432MHz		4864	43.94	-30.06	74	54.4	34.65	7.76	52.87	-	-	P	H
		7296	46.3	-27.7	74	55.2	36.4	8.83	54.13	-	-	P	H
		4864	43.94	-30.06	74	54.4	34.65	7.76	52.87	-	-	P	V
		7296	46.3	-27.7	74	55.2	36.4	8.83	54.13	-	-	P	V
802.11b CH 08 2447MHz		4894	44.85	-29.15	74	55.25	34.64	7.78	52.82	-	-	P	H
		7341	45.91	-28.09	74	54.49	36.44	9.08	54.1	-	-	P	H
		4894	44.85	-29.15	74	55.25	34.64	7.78	52.82	-	-	P	V
		7341	45.91	-28.09	74	54.49	36.44	9.08	54.1	-	-	P	V
802.11b CH 11 2462MHz		4924	44.02	-29.98	74	54.16	34.63	8.01	52.78	-	-	P	H
		7386	46.68	-27.32	74	54.72	36.49	9.54	54.07	-	-	P	H
		4924	45.4	-28.6	74	55.54	34.63	8.01	52.78	-	-	P	V
		7386	46.42	-27.58	74	54.46	36.49	9.54	54.07	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 0	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 05 2432MHz		2328.76	51.46	-22.54	74	48.39	32.05	4.73	33.71	362	214	P	H
		2389.94	41.24	-12.76	54	37.88	32.21	4.81	33.66	362	214	A	H
	*	2432	105.78	-	-	102.25	32.32	4.86	33.65	362	214	P	H
	*	2432	98.19	-	-	94.66	32.32	4.86	33.65	362	214	A	H
		2494.47	51.07	-22.93	74	47.26	32.49	4.92	33.6	362	214	P	H
		2484.88	40.65	-13.35	54	36.89	32.46	4.92	33.62	362	214	A	H
		2388.96	54.09	-19.91	74	50.73	32.21	4.81	33.66	100	199	P	V
		2389.94	44.5	-9.5	54	41.14	32.21	4.81	33.66	100	199	A	V
	*	2432	113.45	-	-	109.92	32.32	4.86	33.65	100	199	P	V
	*	2432	107.15	-	-	103.62	32.32	4.86	33.65	100	199	A	V
		2485.58	52.35	-21.65	74	48.59	32.46	4.92	33.62	100	199	P	V
		2483.62	42	-12	54	38.24	32.46	4.92	33.62	100	199	A	V
802.11g CH 11 2462MHz	*	2462	100.08	-	-	96.39	32.4	4.92	33.63	100	93	P	H
	*	2462	92.32	-	-	88.63	32.4	4.92	33.63	100	93	A	H
		2485.48	51.92	-22.08	74	48.13	32.46	4.95	33.62	100	93	P	H
		2483.64	40.78	-13.22	54	36.99	32.46	4.95	33.62	100	93	A	H
	*	2462	112.22	-	-	108.53	32.4	4.92	33.63	103	160	P	V
	*	2462	104.01	-	-	100.32	32.4	4.92	33.63	103	160	A	V
		2483.56	62.84	-11.16	74	59.05	32.46	4.95	33.62	103	160	P	V
		2483.52	47.59	-6.41	54	43.8	32.46	4.95	33.62	103	160	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 0	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 05 2432MHz		4864	43.72	-30.28	74	54.18	34.65	7.76	52.87	-	-	P	H
		7296	44.62	-29.38	74	53.52	36.4	8.83	54.13	-	-	P	H
		4864	44.25	-29.75	74	54.71	34.65	7.76	52.87	-	-	P	V
		7296	45.38	-28.62	74	54.28	36.4	8.83	54.13	-	-	P	V
802.11g CH 08 2447MHz		4894	44.95	-29.05	74	55.35	34.64	7.78	52.82	-	-	P	H
		7341	45.8	-28.2	74	54.38	36.44	9.08	54.1	-	-	P	H
		4894	44.31	-29.69	74	54.71	34.64	7.78	52.82	-	-	P	V
		7341	45.22	-28.78	74	53.8	36.44	9.08	54.1	-	-	P	V
802.11g CH 11 2462MHz		4924	44.07	-29.93	74	54.21	34.63	8.01	52.78	-	-	P	H
		7386	45.66	-28.34	74	53.7	36.49	9.54	54.07	-	-	P	H
		4924	45.1	-28.9	74	55.24	34.63	8.01	52.78	-	-	P	V
		7386	46.15	-27.85	74	54.19	36.49	9.54	54.07	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 05 2432MHz		2368.66	50.97	-23.03	74	47.72	32.16	4.77	33.68	373	185	P	H
		2389.94	40.52	-13.48	54	37.16	32.21	4.81	33.66	373	185	A	H
	*	2432	101.88	-	-	98.35	32.32	4.86	33.65	373	185	P	H
	*	2432	94.83	-	-	91.3	32.32	4.86	33.65	373	185	A	H
		2487.96	51.74	-22.26	74	47.97	32.47	4.92	33.62	373	185	P	H
		2483.55	40.57	-13.43	54	36.81	32.46	4.92	33.62	373	185	A	H
		2388.54	53.87	-20.13	74	50.51	32.21	4.81	33.66	100	197	P	V
		2389.94	44.17	-9.83	54	40.81	32.21	4.81	33.66	100	197	A	V
	*	2432	112.04	-	-	108.51	32.32	4.86	33.65	100	197	P	V
	*	2432	105.38	-	-	101.85	32.32	4.86	33.65	100	197	A	V
		2485.3	51.34	-22.66	74	47.58	32.46	4.92	33.62	100	197	P	V
		2483.83	41.77	-12.23	54	38.01	32.46	4.92	33.62	100	197	A	V
802.11n HT20 CH 11 2462MHz	*	2462	103.32	-	-	99.69	32.4	4.86	33.63	384	199	P	H
	*	2462	96.37	-	-	92.74	32.4	4.86	33.63	384	199	A	H
		2483.68	61.76	-12.24	74	58	32.46	4.92	33.62	384	199	P	H
		2483.52	47.86	-6.14	54	44.1	32.46	4.92	33.62	384	199	A	H
	*	2462	108.45	-	-	104.82	32.4	4.86	33.63	100	334	P	V
	*	2462	101.23	-	-	97.6	32.4	4.86	33.63	100	334	A	V
		2483.52	68.02	-5.98	74	64.26	32.46	4.92	33.62	100	334	P	V
		2483.88	50.72	-3.28	54	46.96	32.46	4.92	33.62	100	334	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 05 2432MHz		4864	43.55	-30.45	74	54.01	34.65	7.76	52.87	-	-	P	H
		7296	45.17	-28.83	74	54.07	36.4	8.83	54.13	-	-	P	H
		4864	44.09	-29.91	74	54.55	34.65	7.76	52.87	-	-	P	V
		7296	45	-29	74	53.9	36.4	8.83	54.13	-	-	P	V
802.11n HT20 CH 08 2447MHz		4894	45.27	-28.73	74	55.67	34.64	7.78	52.82	-	-	P	H
		7341	45.79	-28.21	74	54.37	36.44	9.08	54.1	-	-	P	H
		4894	44.76	-29.24	74	55.16	34.64	7.78	52.82	-	-	P	V
		7341	44.73	-29.27	74	53.31	36.44	9.08	54.1	-	-	P	V
802.11n HT20 CH 11 2462MHz		4924	44	-30	74	54.14	34.63	8.01	52.78	-	-	P	H
		7386	45.61	-28.39	74	53.65	36.49	9.54	54.07	-	-	P	H
		4924	44.34	-29.66	74	54.48	34.63	8.01	52.78	-	-	P	V
		7386	45.67	-28.33	74	53.71	36.49	9.54	54.07	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 07 2442MHz		2316.44	51.04	-22.96	74	48	32.02	4.73	33.71	348	198	P	H
		2389.94	40.3	-13.7	54	36.94	32.21	4.81	33.66	348	198	A	H
	*	2442	99.33	-	-	95.75	32.35	4.86	33.63	348	198	P	H
	*	2442	92.07	-	-	88.49	32.35	4.86	33.63	348	198	A	H
		2484.46	51.59	-22.41	74	47.83	32.46	4.92	33.62	348	198	P	H
		2483.5	42	-12	54	38.24	32.46	4.92	33.62	348	198	A	H
		2389.8	53.86	-20.14	74	50.5	32.21	4.81	33.66	100	342	P	V
		2389.38	43.65	-10.35	54	40.29	32.21	4.81	33.66	100	342	A	V
	*	2442	106.91	-	-	103.33	32.35	4.86	33.63	100	342	P	V
	*	2442	100.38	-	-	96.8	32.35	4.86	33.63	100	342	A	V
		2483.83	59.42	-14.58	74	55.66	32.46	4.92	33.62	100	342	P	V
		2483.9	47.12	-6.88	54	43.36	32.46	4.92	33.62	100	342	A	V
802.11n HT40 CH 09 2452MHz		2375.1	50.89	-23.11	74	47.52	32.18	4.87	33.68	100	299	P	H
		2389.24	40.38	-13.62	54	36.93	32.21	4.9	33.66	100	299	A	H
	*	2452	96.04	-	-	92.37	32.38	4.92	33.63	100	299	P	H
	*	2452	88.55	-	-	84.88	32.38	4.92	33.63	100	299	A	H
		2485.16	53.05	-20.95	74	49.26	32.46	4.95	33.62	100	299	P	H
		2484.53	42.49	-11.51	54	38.7	32.46	4.95	33.62	100	299	A	H
		2389.8	51.83	-22.17	74	48.38	32.21	4.9	33.66	308	2	P	V
		2389.94	41.87	-12.13	54	38.42	32.21	4.9	33.66	308	2	A	V
	*	2452	105.43	-	-	101.76	32.38	4.92	33.63	308	2	P	V
	*	2452	97.12	-	-	93.45	32.38	4.92	33.63	308	2	A	V
		2483.69	61.05	-12.95	74	57.26	32.46	4.95	33.62	308	2	P	V
		2484.04	50.41	-3.59	54	46.62	32.46	4.95	33.62	300	2	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 07 2442MHz		4884	43.27	-30.73	74	53.68	34.65	7.78	52.84	-	-	P	H
		7326	44.22	-29.78	74	52.95	36.43	8.95	54.11	-	-	P	H
		4884	44.27	-29.73	74	54.68	34.65	7.78	52.84	-	-	P	V
		7326	43.87	-30.13	74	52.6	36.43	8.95	54.11	-	-	P	V
802.11n HT40 CH 08 2447MHz		4894	44.32	-29.68	74	54.72	34.64	7.78	52.82	-	-	P	H
		7341	45	-29	74	53.58	36.44	9.08	54.1	-	-	P	H
		4894	46.24	-27.76	74	56.64	34.64	7.78	52.82	-	-	P	V
		7341	45.96	-28.04	74	54.54	36.44	9.08	54.1	-	-	P	V
802.11n HT40 CH 09 2452MHz		4904	44.6	-29.4	74	54.76	34.64	8	52.8	-	-	P	H
		7356	46.25	-27.75	74	54.43	36.46	9.45	54.09	-	-	P	H
		4904	44.92	-29.08	74	55.08	34.64	8	52.8	-	-	P	V
		7356	45.36	-28.64	74	53.54	36.46	9.45	54.09	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		47.46	20.11	-19.89	40	33.84	19.62	1.62	34.97	-	-	P	H
		143.49	28.6	-14.9	43.5	42.59	18.43	2.29	34.71	-	-	P	H
		259.89	21.79	-24.21	46	35.55	17.87	3.05	34.68	-	-	P	H
		470.38	25.2	-20.8	46	33.27	23	3.43	34.5	-	-	P	H
		709	28.27	-17.73	46	31.74	27.19	3.74	34.4	-	-	P	H
		835.1	30.06	-15.94	46	31.46	28.52	4.38	34.3	-	-	P	H
		45.52	30.26	-9.74	40	44	19.61	1.61	34.96	-	-	P	V
		122.15	34.67	-8.83	43.5	50.57	16.7	2.16	34.76	-	-	P	V
		177.44	31.08	-12.42	43.5	45.96	17.34	2.48	34.7	-	-	P	V
		438.37	23.66	-22.34	46	32.29	22.44	3.43	34.5	-	-	P	V
		715.79	29.43	-16.57	46	32.84	27.25	3.74	34.4	-	-	P	V
		930.16	31.59	-14.41	46	32.1	29.32	4.47	34.3	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Co-location

802.11n HT20 CH11(2462Mhz) & LTE B48 Link

2.4GHz 2400~2483.5MHz

802.11n HT20 (Band Edge @ 3m)

BLE	Note	Frequency	Level	margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
11N20CH11 (2462Mhz)& LTE B48 Co-location	*	2462	98.92	-	-	95.23	32.4	4.92	33.63	100	247	P	H
	*	2462	91.89	-	-	88.2	32.4	4.92	33.63	100	247	A	H
		2483.84	52.46	-21.54	74	48.67	32.46	4.95	33.62	100	247	P	H
		2483.52	41.35	-12.65	54	37.56	32.46	4.95	33.62	100	247	A	H
	*	2462	108.51	-	-	104.88	32.4	4.86	33.63	105	316	P	V
	*	2462	101.71	-	-	98.08	32.4	4.86	33.63	105	316	A	V
		2484.88	68.26	-5.74	74	64.5	32.46	4.92	33.62	105	316	P	V
		2484.76	50.2	-3.8	54	46.44	32.46	4.92	33.62	105	316	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

802.11n HT20 (Harmonic @ 3m)

BLE	Note	Frequency	Level	margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
11N20CH11 (2462Mhz)& LTE B48 Co-location		4924	42.34	-31.66	74	52.69	34.63	7.8	52.78	-	-	P	H
		7386	42.84	-31.16	74	51.22	36.49	9.2	54.07	-	-	P	H
		4924	42.34	-31.66	74	52.69	34.63	7.8	52.78	-	-	P	V
		7386	43.28	-30.72	74	51.66	36.49	9.2	54.07	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz

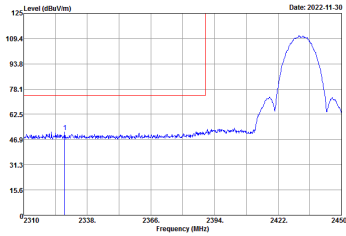
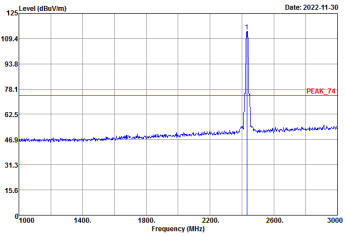
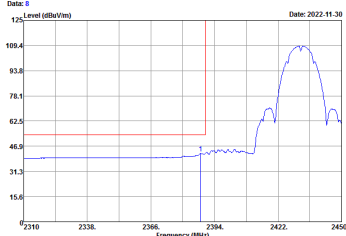
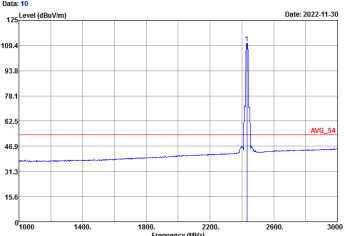
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH05 2432MHz	
0	Horizontal	Fundamental
Peak	Date: 1 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW 1000 000KHz VBW 3000 000KHz Project : 293023 Mode : Mode 1 MEI : 86463006663484 Plane : ANT 180 with Accessories : 1M PowerSetting 2B	Date: 3 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW 1000 000KHz VBW 3000 000KHz Project : 293023 Mode : Mode 1 MEI : 86463006663484 Plane : ANT 180 with Accessories : 1M PowerSetting 2B
Avg.	Date: 2 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW 1000 000KHz VBW 0.010KHz Project : 293023 Mode : Mode 1 MEI : 86463006663484 Plane : ANT 180 with Accessories : 1M PowerSetting 2B	Date: 4 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL : RBW 1000 000KHz VBW 0.010KHz Project : 293023 Mode : Mode 1 MEI : 86463006663484 Plane : ANT 180 with Accessories : 1M PowerSetting 2B



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH05 2432MHz	
0	Horizontal	Fundamental
Peak	Date: 5 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 1 MEI : 8640306663484 Plane : ANT 180 with Accessories : TM PowerSetting 2B	
Avg.	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 1 MEI : 8640306663484 Plane : ANT 180 with Accessories : TM PowerSetting 2B	

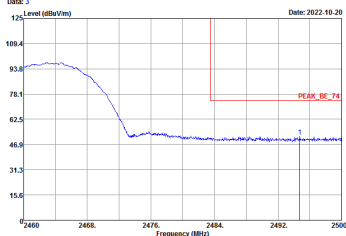
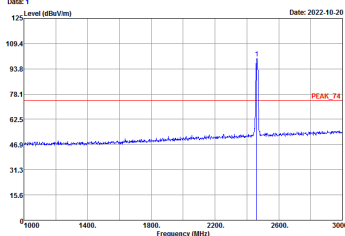
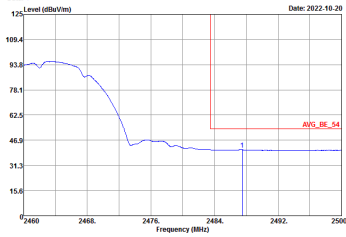
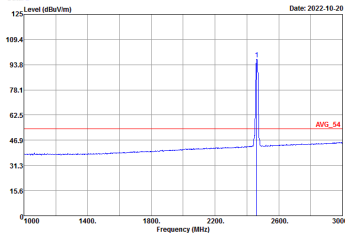


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH05 2432MHz	
0	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74.3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 1 MEI : 86463066663484 Plane : ANT 180 with Accessories 1M PowerSetting 25	Date: 9 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74.3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 1 MEI : 86463066663484 Plane : ANT 180 with Accessories 1M PowerSetting 25
Avg.	Date: 8 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54.3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 0.010kHz Project : 293023 Mode : Mode 1 MEI : 86463066663484 Plane : ANT 180 with Accessories 1M PowerSetting 25	Date: 10 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54.3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 0.010kHz Project : 293023 Mode : Mode 1 MEI : 86463066663484 Plane : ANT 180 with Accessories 1M PowerSetting 25



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH05 2432MHz	
0	Vertical	Fundamental
Peak	Date: 11 Level (dBuV/m) 125 108.4 93.8 78.1 62.5 46.9 31.3 15.6 2430 2444 2458 2472 2486 2500 Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 1 MEI : 8640306663484 Plane : ANT 180 with Accessories : 1M PowerSetting 2B	
Avg.	Date: 12 Level (dBuV/m) 125 108.4 93.8 78.1 62.5 46.9 31.3 15.6 2430 2444 2458 2472 2486 2500 Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 1 MEI : 8640306663484 Plane : ANT 180 with Accessories : 1M PowerSetting 2B	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
0	Horizontal	Fundamental
Peak	Date: 3  Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25	Date: 1  Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25
Avg.	Date: 4  Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25	Date: 2  Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
0	Vertical	Fundamental
Peak	Date: 7 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25	Date: 5 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25
Avg.	Date: 8 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 0.010kHz Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25	Date: 6 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 0.010kHz Project : 293023 Mode : Mode 3 MEI : 86463066663484 Plane : ANT 180 with Accessories : 1M PowerSetting 25

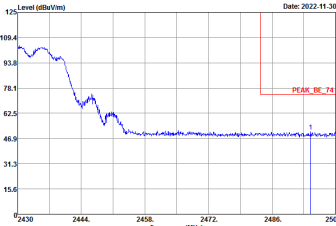
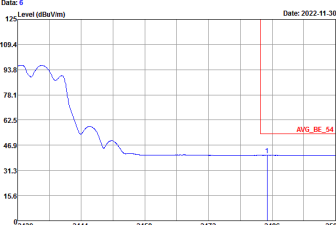


2.4GHz 2400~2483.5MHz

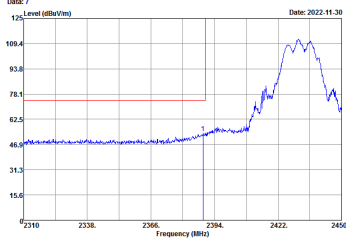
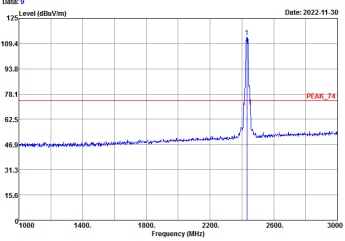
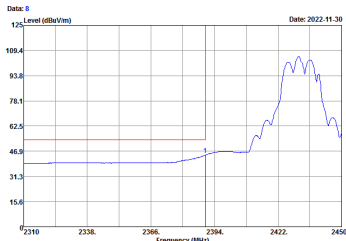
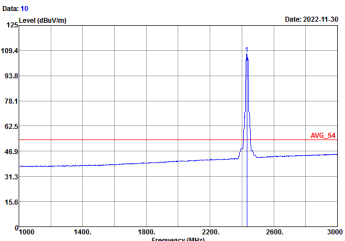
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MHz	
0	Horizontal	Fundamental
Peak	Date: 1 Level (dBuV/m) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL REBW:1000 000KHz VEW:3000 000KHz Project : 293023 Mode : Mode 4 IMEI : 86463006663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 3 Level (dBuV/m) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL REBW:1000 000KHz VEW:3000 000KHz Project : 293023 Mode : Mode 4 IMEI : 86463006663484 Plane : ANT 180 with Accessories GM PowerSetting 24
Avg.	Date: 2 Level (dBuV/m) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL REBW:1000 000KHz VEW:0.010KHz Project : 293023 Mode : Mode 4 IMEI : 86463006663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 4 Level (dBuV/m) Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL REBW:1000 000KHz VEW:0.010KHz Project : 293023 Mode : Mode 4 IMEI : 86463006663484 Plane : ANT 180 with Accessories GM PowerSetting 24



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MHz	
0	Horizontal	Fundamental
Peak	Date: 5 Level (dBuV/m) Date: 2022-11-30  Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL REBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 4 MEI : 864530056653484 Plane : ANT 180 with Accessories GM PowerSetting 24	
Avg.	Date: 6 Level (dBuV/m) Date: 2022-11-30  Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL REBW: 1000.000kHz VBW: 0.010kHz Project : 293023 Mode : Mode 4 MEI : 864530056653484 Plane : ANT 180 with Accessories GM PowerSetting 24	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MH	
0	Vertical	Fundamental
Peak	Date: 7  Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 4 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 9  Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 4 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24
Avg.	Date: 8  Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 0.010kHz Project : 293023 Mode : Mode 4 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 10  Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL REBW: 1000.000kHz VBW: 0.010kHz Project : 293023 Mode : Mode 4 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MH	
0	Vertical	Fundamental
Peak	Date: 11 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 4 MEI : 86453005663484 Plane : ANT 180 with Accessories GM PowerSetting 24	
Avg.	Date: 12 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 4 MEI : 86453005663484 Plane : ANT 180 with Accessories GM PowerSetting 24	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
0	Horizontal	Fundamental
Peak	Date: 3 Level (dBuV/m) 120 108.4 93.8 78.1 62.5 46.9 31.3 15.6 2460 2468 2476 2484 2492 2500 Frequency (MHz) PEAK_BE_74 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL REBW:1000.000kHz VEW:3000.000kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 1 Level (dBuV/m) 120 108.4 93.8 78.1 62.5 46.9 31.3 15.6 1000 1400 1800 2200 2600 3000 Frequency (MHz) PEAK_74 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL REBW:1000.000kHz VEW:3000.000kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24
Avg.	Date: 4 Level (dBuV/m) 120 108.4 93.8 78.1 62.5 46.9 31.3 15.6 2460 2468 2476 2484 2492 2500 Frequency (MHz) AVG_BE_54 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL REBW:1000.000kHz VEW:0.010kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 2 Level (dBuV/m) 120 108.4 93.8 78.1 62.5 46.9 31.3 15.6 1000 1400 1800 2200 2600 3000 Frequency (MHz) AVG_54 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL REBW:1000.000kHz VEW:0.010kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
0	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 2460 2468 2476 2484 2492 2500 Frequency (MHz) PEAK_BE_74 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 5 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 1800 2400 2460 2500 2560 2620 Frequency (MHz) PEAK_74 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24
Avg.	Date: 8 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 2460 2468 2476 2484 2492 2500 Frequency (MHz) AVG_BE_54 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:0.010kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 6 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 1800 2400 2460 2500 2560 2620 Frequency (MHz) AVG_54 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:0.010kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories GM PowerSetting 24

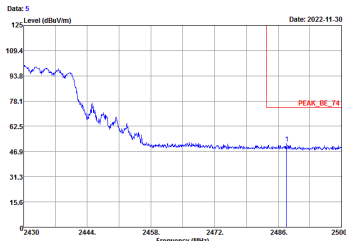
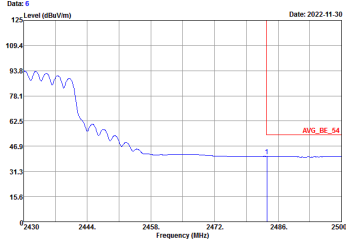


2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH05 2432MHz	
0+1	Horizontal	Fundamental
Peak	Date: 1 Date: 2022-11-30 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 3000 000KHz Project : 293023 Mode : Mode 7 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26	Date: 3 Date: 2022-11-30 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 3000 000KHz Project : 293023 Mode : Mode 7 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26
Avg.	Date: 2 Date: 2022-11-30 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 0 010KHz Project : 293023 Mode : Mode 7 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26	Date: 4 Date: 2022-11-30 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 0 010KHz Project : 293023 Mode : Mode 7 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH05 2432MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 7 MEI : 86403006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	
Avg.	 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 7 MEI : 86403006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH05 2432MHz	
0+1	Vertical	Fundamental
Peak	Date: 7 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 7 MEI : 86483006663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 26	Date: 9 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 7 MEI : 86483006663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 26
Avg.	Date: 8 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 7 MEI : 86483006663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 26	Date: 10 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 7 MEI : 86483006663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 26



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH05 2432MHz	
0+1	Vertical	Fundamental
Peak	Date: 11 Level (dBuV/m) 100.4 93.8 78.1 62.5 46.9 31.3 15.6 2430 2444 2458 2472 2486 2500 Frequency (MHz) PEAK_BE_74 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 7 MEI : 86403006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	
Avg.	Date: 12 Level (dBuV/m) 100.4 93.8 78.1 62.5 46.9 31.3 15.6 2430 2444 2458 2472 2486 2500 Frequency (MHz) AVG_BE_54 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 7 MEI : 86403006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Horizontal	Fundamental
Peak	Date: 3 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 2460 2468 2476 2484 2492 2500 Frequency (MHz) PEAK_BE_74 Date: 2022-11-30 Site Condition : 03CH03-SZ : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : REW 1000.000kHz VBW 3000.000kHz Project : 293023 Mode : Mode 9 IMEI : 86463066663484 Plane : ANT 180 with Accessories : MCS9 PowerSetting 26	Date: 1 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 1800 2000 2200 2400 2600 2800 3000 Frequency (MHz) PEAK_74 Date: 2022-12-01 Site Condition : 03CH03-SZ : PEAK_74 3m ANT3117_0057 HORIZONTAL : REW 1000.000kHz VBW 3000.000kHz Project : 293023 Mode : Mode 9 IMEI : 86463066663484 Plane : ANT 180 with Accessories : MCS9 PowerSetting 26
Avg.	Date: 4 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 2460 2468 2476 2484 2492 2500 Frequency (MHz) AVG_BE_54 Date: 2022-11-30 Site Condition : 03CH03-SZ : AVG_BE_54 3m ANT3117_0057 HORIZONTAL : REW 1000.000kHz VBW 0.010kHz Project : 293023 Mode : Mode 9 IMEI : 86463066663484 Plane : ANT 180 with Accessories : MCS9 PowerSetting 26	Date: 2 Level (dBuV/m) 120 109.4 93.8 78.1 62.5 46.9 31.3 15.6 1800 2000 2200 2400 2600 2800 3000 Frequency (MHz) AVG_54 Date: 2022-12-01 Site Condition : 03CH03-SZ : AVG_54 3m ANT3117_0057 HORIZONTAL : REW 1000.000kHz VBW 0.010kHz Project : 293023 Mode : Mode 9 IMEI : 86463066663484 Plane : ANT 180 with Accessories : MCS9 PowerSetting 26



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 9 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26	Date: 5 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 9 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26
Avg.	Date: 8 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:0.010kHz Project : 293023 Mode : Mode 9 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:0.010kHz Project : 293023 Mode : Mode 9 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 26

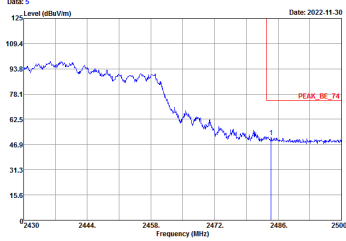
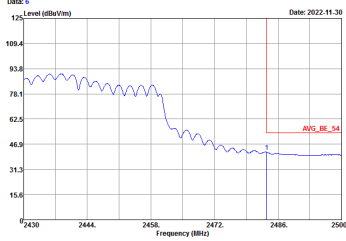


2.4GHz 2400~2483.5MHz

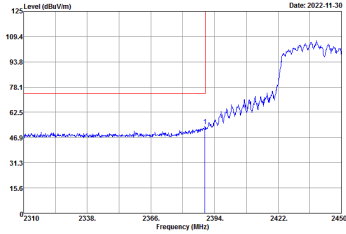
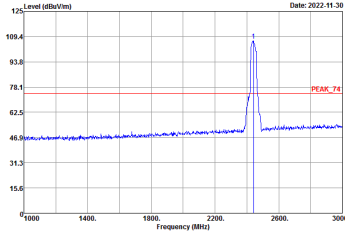
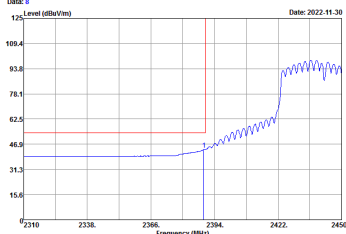
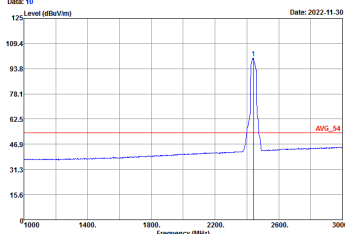
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH07 2442MHz - L	
0+1	Horizontal	Fundamental
Peak	Date: 1 Level (dBuV/m) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 3000 000KHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Date: 3 Level (dBuV/m) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 3000 000KHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25
Avg.	Date: 2 Level (dBuV/m) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 0.010KHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Date: 4 Level (dBuV/m) Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL RBW: 1000 000KHz VBW: 0.010KHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH07 2442MHz - L	
0+1	Horizontal	Fundamental
Peak	 Date: 5 Level (dBm/100kHz) Date: 2022-11-30 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 10 MEI : 8642000663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Left Blank
Avg.	 Date: 6 Level (dBm/100kHz) Date: 2022-11-30 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 10 MEI : 8642000663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH07 2442MHz - L	
0+1	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Date: 9 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25
Avg.	Date: 8 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:0.010kHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Date: 10 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL REBW:1000.000kHz VBW:0.010kHz Project : 293023 Mode : Mode 10 MEI : 86463006663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH07 2442MHz - L	
0+1	Vertical	Fundamental
Peak	Date: 11 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 10 MEI : 8640300663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Left blank
Avg.	Date: 12 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 10 MEI : 8640300663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 25	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
0+1	Horizontal	Fundamental
Peak	Date: 1 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VEW 3000 000KHz Mode : 293023 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 28	Date: 3 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VEW 3000 000KHz Mode : 293023 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 28
Avg.	Date: 2 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VEW 0 010KHz Mode : 293023 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 28	Date: 4 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VEW 0 010KHz Mode : 293023 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS0 PowerSetting 28



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
0+1	Horizontal	Fundamental
Peak	Date: 5 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 12 MEI : 8846200663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28	Left blank
Avg.	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 9.010kHz Project : 293023 Mode : Mode 12 MEI : 8846200663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
0+1	Vertical	Fundamental
Peak	Date: 7 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 12 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28	Date: 9 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 12 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28
Avg.	Date: 8 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 12 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28	Date: 10 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 12 MEI : 8646306663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
0+1	Vertical	Fundamental
Peak	Date: 11 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 12 MEI : 8640300663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28	Left blank
Avg.	Date: 12 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 12 MEI : 8640300663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 28	Left blank



2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH05 2432MHz	
0	Horizontal	Vertical
Peak Avg.	Date: 20 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 1 IMEI : 864630056663484 Plane : ANT 180 with Accessories : 1M PowerSetting 20	Date: 21 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 1 IMEI : 864630056663484 Plane : ANT 180 with Accessories : 1M PowerSetting 20



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH08 2447MHz	
0	Horizontal	Vertical
Peak Avg.	Date: 7 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 253023 Mode : Mode 2 MEI : 86463000963484 Plane : ANT 150 with Accessories : 1M PowerSetting 25	Date: 8 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 253023 Mode : Mode 2 MEI : 86463000963484 Plane : ANT 150 with Accessories : 1M PowerSetting 25



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
0	Horizontal	Vertical
Peak Avg.	Date: 15 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 253023 Mode : Mode 3 MEI : 86463000963484 Plane : ANT 150 with Accessories : 1M PowerSetting 25	Date: 16 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 253023 Mode : Mode 3 MEI : 86463000963484 Plane : ANT 150 with Accessories : 1M PowerSetting 25



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH05 2432MHz	
0	Horizontal	Vertical
Peak Avg.	Date: 19 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 4 IMEI : 864630056663484 Plane : ANT 180 with Accessories GM PowerSetting 24	Date: 20 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 4 IMEI : 864630056663484 Plane : ANT 180 with Accessories GM PowerSetting 24