



FCC RADIO TEST REPORT

FCC ID : UZ7WT63B0
Equipment : WT6300 Wearable Computer
Brand Name : Zebra
Model Name : WT63B0
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC Part 15 Subpart C §15.247

The product was received on Aug. 12, 2020 and testing was started from Aug. 17, 2020 and completed on Sep. 17, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, 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.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR072944C	01	Initial issue of report	Sep. 29, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 1.11 dB at 2483.680 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 5.66 dB at 13.560 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

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.

Reviewed by: Wii Chang

Report Producer: Vivian Hsu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	WT6300 Wearable Computer
Brand Name	Zebra
Model Name	WT63B0
FCC ID	UZ7WT63B0
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	EV2.5
SW Version	10-14-10.00-QC-U01-PRD-HEL-04
OS Version	Android 10
FW Version	FUSION_QA_2_1.3.0.006_Q
MFD	29JUL20
EUT Stage	Engineering Sample

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adapter 1	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
AC Adapter 2	Brand Name	Zebra	Part Number	PWR-WUA5V12W0WW
AC Adapter 3	Brand Name	Zebra	Part Number	PWR-BUA5V16W0WW
Battery 1	Brand Name	Zebra	Part Number	BT000262A01
Battery 2	Brand Name	Zebra	Part Number	BT-000262-50
Battery 3	Brand Name	Zebra	Part Number	BT-000362-00
AC Power Cable	Brand Name	Zebra	Part Number	50-16000-182R
DC Cable	Brand Name	Zebra	Part Number	CBL-DC-383A1-01
USB Cable	Brand Name	Zebra	Part Number	CBL-NGWT-USBCHG-01
Vibrating Cable	Brand Name	Zebra	Part Number	CBL-NGWT-HDVBAP-01
Audio Cable 1	Brand Name	Zebra	Part Number	CBL-HS2100-12S1-01
Audio Cable 2	Brand Name	Zebra	Part Number	CBL-HS3100-CUC1-01
Keyboard	Brand Name	Zebra	Part Number	KYPD-WT6XANFASM-01
Scanner 1	Brand Name	Zebra	Part Number	RS51B0-TBSNWR
Scanner 2	Brand Name	Zebra	Part Number	RS60B0-SRSTWR
Scanner 3	Brand Name	Zebra	Part Number	RS4000-HPCSWR
Scanner 4	Brand Name	Zebra	Part Number	RS5000-LCFSWR
Earphone 1	Brand Name	Zebra	Part Number	HS2100-OTH
Earphone 2	Brand Name	Zebra	Part Number	HS3100-OTH
Wrist Mount	Brand Name	Zebra	Part Number	SG-NGWT-WRMTS-01
Wrist Mount	Brand Name	Zebra	Part Number	SG-NGWT-WRMTL-01
Wrist Mount	Brand Name	Zebra	Part Number	SG-NGWT-WRMTXL-01
Hip Mount	Brand Name	Zebra	Part Number	SG-NGWT-HPMNT-01

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard												
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz											
Maximum Average Output Power to antenna	<Ant. 1>: 802.11b : 20.90 dBm (0.1230 W) 802.11g : 20.40 dBm (0.1096 W) 802.11n HT20 : 19.30 dBm (0.0851 W) 802.11n HT40 : 14.20 dBm (0.0263 W) <Ant. 2>: 802.11b : 20.80 dBm (0.1202 W) 802.11g : 19.40 dBm (0.0871 W) 802.11n HT20 : 19.20 dBm (0.0832 W) 802.11n HT40 : 15.50 dBm (0.0355 W) MIMO <Ant. 1 + 2>: 802.11b : 23.47 dBm (0.2223 W) 802.11g : 21.86 dBm (0.1535 W) 802.11n HT20 : 21.41 dBm (0.1384 W) 802.11n HT40 : 17.41 dBm (0.0551 W)											
99% Occupied Bandwidth	<Ant. 1>: 802.11b : 16.45MHz 802.11g : 16.95MHz 802.11n HT20 : 18.00MHz 802.11n HT40 : 36.70MHz <Ant. 2>: 802.11b : 16.00MHz 802.11g : 17.35MHz 802.11n HT20 : 18.30MHz 802.11n HT40 : 36.70MHz MIMO <Ant. 1 + 2>: 802.11b : 16.40MHz 802.11g : 17.00MHz 802.11n HT20 : 18.05MHz 802.11n HT40 : 36.80MHz											
Antenna Type / Gain	<Ant. 1>: Patch Antenna with gain 2.4 dBi <Ant. 2>: Patch Antenna with gain 3.7 dBi											
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)											
Antenna Function Description	<table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 b/g/n</td><td>V</td><td>V</td></tr><tr><td>802.11 b/g/n MIMO</td><td>V</td><td>V</td></tr></table>				Ant. 1	Ant. 2	802.11 b/g/n	V	V	802.11 b/g/n MIMO	V	V
	Ant. 1	Ant. 2										
802.11 b/g/n	V	V										
802.11 b/g/n MIMO	V	V										

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.3 Modification of EUT

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



1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH16-HY	

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Link + Bluetooth Link + NFC On + Color Bar + Battery 1 + Scanner 1 + Earphone 1 + Audio Cable 1 + USB Cable (Data Link with Notebook) + AC Adapter 3
Remark: - For Radiated Test Cases, the tests were performed with Adapter 1, Battery 1. - Data Link with Notebook means data application transferred mode between EUT and Notebook.	

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11n HT20	802.11n HT40
Low	01	01	01	03
Middle	06	06	06	06
High	11	11	11	09

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.



<Ant. 1>

802.11b RF Avg Output Power (dBm)						
Power vs. Channel			Power vs Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
		1M		2M	5.5M	11M
CH 01	2412	19.80	CH 11	20.80	20.80	20.60
CH 06	2437	20.80				
CH 11	2462	20.90				

802.11g RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
CH 01	2412	15.90	CH 06	20.20	20.30	20.10	20.20	20.00	20.20	20.30
CH 06	2437	20.40								
CH 11	2462	16.10								

802.11n HT20 RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
CH 01	2412	15.20	CH 06	19.10	19.10	19.20	19.00	19.00	19.10	19.00
CH 06	2437	19.30								
CH 11	2462	14.80								

802.11n HT40 RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
CH 03	2422	12.10	CH 06	14.10	14.10	14.10	14.10	14.10	14.10	14.10
CH 06	2437	14.20								
CH 09	2452	13.60								

<Ant. 2>

802.11b RF Avg Output Power (dBm)						
Power vs. Channel			Power vs Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
		1M		2M	5.5M	11M
CH 01	2412	20.80	CH 01	20.70	20.70	20.70
CH 06	2437	20.80				
CH 11	2462	20.80				

802.11g RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
CH 01	2412	18.40	CH 06	19.30	19.30	19.30	19.30	19.00	19.30	19.30
CH 06	2437	19.40								
CH 11	2462	16.30								

802.11n HT20 RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
CH 01	2412	18.30	CH 06	19.10	19.00	19.00	19.00	19.10	19.00	19.00
CH 06	2437	19.20								
CH 11	2462	15.10								

802.11n HT40 RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
CH 03	2422	15.50	CH 03	15.40	15.40	15.30	15.30	15.40	15.40	15.40
CH 06	2437	15.10								
CH 09	2452	13.60								

MIMO <Ant. 1+2>

802.11b RF Avg Output Power (dBm)						
Power vs. Channel			Power vs Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
		1M		2M	5.5M	11M
CH 01	2412	22.62	CH 06	23.17	23.17	23.17
CH 06	2437	23.47				
CH 11	2462	23.26				

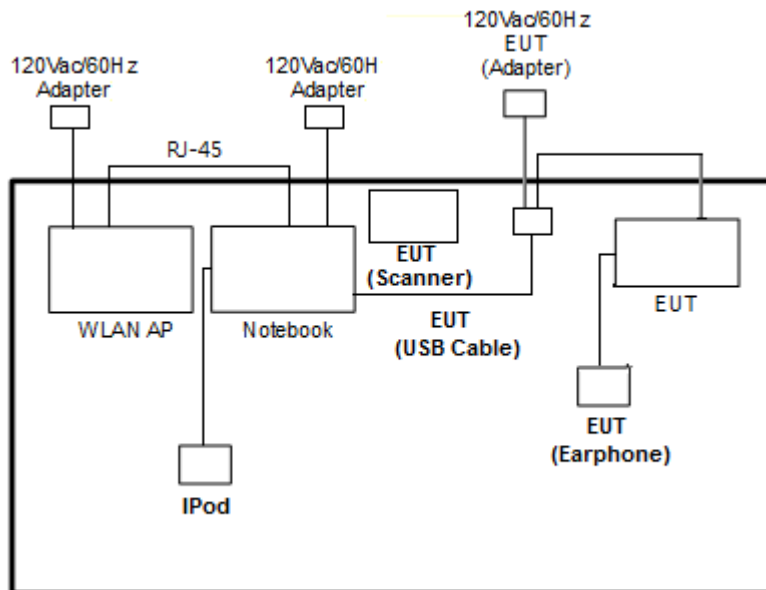
802.11g RF Avg Output Power (dBm)									
Power vs. Channel			Power vs Data Rate						
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)					
		6M		9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps
CH 01	2412	19.11	CH 06	21.71	21.71	21.76	21.71	21.66	21.66
CH 06	2437	21.86							
CH 11	2462	18.46							

802.11n HT20 RF Avg Output Power (dBm)									
Power vs. Channel			Power vs Data Rate						
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index					
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6
CH 01	2412	18.42	CH 06	21.31	21.26	21.26	21.26	21.21	21.21
CH 06	2437	21.41							
CH 11	2462	17.41							

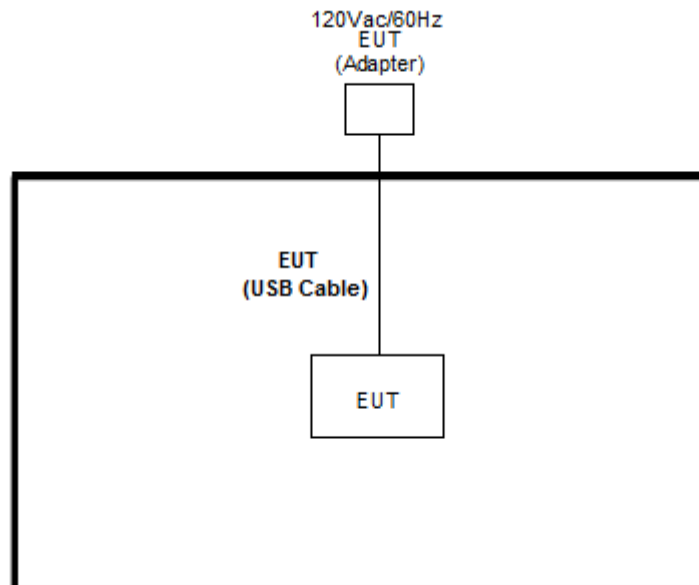
802.11n HT40 RF Output Power (dBm)									
Power vs. Channel			Power vs Data Rate						
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index					
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6
CH 03	2422	15.36	CH 06	15.40	15.40	15.30	15.30	15.40	15.40
CH 06	2437	17.41							
CH 09	2452	16.26							

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT_V4.0.00156.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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 4.2 dB and 10dB attenuator.

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

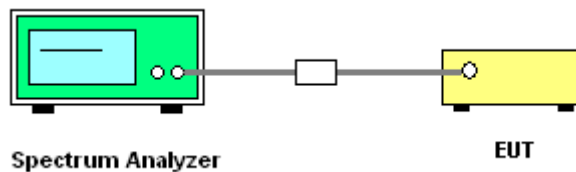
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
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. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Test Engineer :	Jun Yu and Mina Liu	Temperature :	23.6~23.8℃
		Relative Humidity :	53.6~54.3%

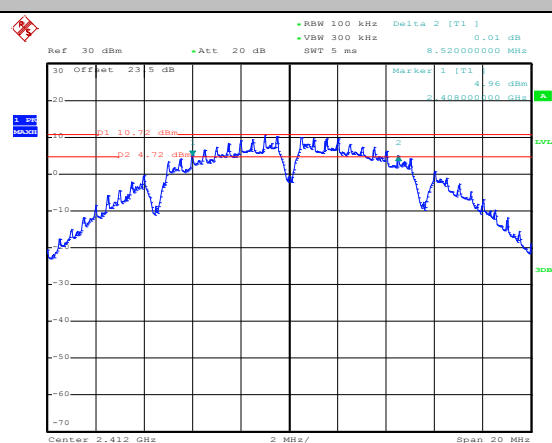
2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	14.45	15.25	8.52	9.56	0.50	Pass
11b	1Mbps	1	6	2437	15.05	15.20	9.52	9.04	0.50	Pass
11b	1Mbps	1	11	2462	16.45	16.00	9.56	10.04	0.50	Pass
11g	6Mbps	1	1	2412	16.85	17.35	15.66	15.72	0.50	Pass
11g	6Mbps	1	6	2437	16.95	17.00	15.66	15.68	0.50	Pass
11g	6Mbps	1	11	2462	16.75	16.70	15.04	15.42	0.50	Pass
HT20	MCS0	1	1	2412	17.95	18.30	16.32	15.96	0.50	Pass
HT20	MCS0	1	6	2437	18.00	18.15	16.08	15.92	0.50	Pass
HT20	MCS0	1	11	2462	17.85	17.80	15.04	15.70	0.50	Pass
HT40	MCS0	1	3	2422	36.40	36.40	35.00	35.08	0.50	Pass
HT40	MCS0	1	6	2437	36.70	36.70	35.92	36.00	0.50	Pass
HT40	MCS0	1	9	2452	36.50	36.70	35.16	35.36	0.50	Pass



2.4GHz Band MIMO

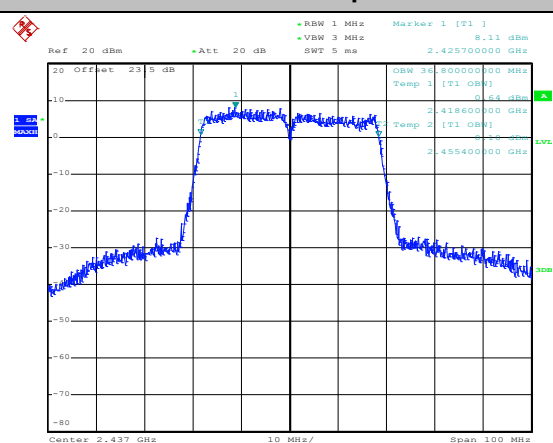
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	2	1	2412	14.85	15.75	8.56	9.52	0.50	Pass
11b	1Mbps	2	6	2437	14.65	15.05	9.48	9.04	0.50	Pass
11b	1Mbps	2	11	2462	16.40	15.90	10.00	9.46	0.50	Pass
11g	6Mbps	2	1	2412	16.90	16.90	15.68	15.66	0.50	Pass
11g	6Mbps	2	6	2437	16.95	17.00	15.70	15.72	0.50	Pass
11g	6Mbps	2	11	2462	16.80	16.65	15.34	15.68	0.50	Pass
HT20	MCS0	2	1	2412	18.00	17.95	16.28	16.32	0.50	Pass
HT20	MCS0	2	6	2437	18.05	18.05	16.32	16.08	0.50	Pass
HT20	MCS0	2	11	2462	17.95	17.85	15.04	15.44	0.50	Pass
HT40	MCS0	2	3	2422	36.30	36.30	35.04	35.12	0.50	Pass
HT40	MCS0	2	6	2437	36.80	36.70	35.16	35.64	0.50	Pass
HT40	MCS0	2	9	2452	36.50	36.60	35.08	35.12	0.50	Pass

Minimum 6dB Bandwidth



Date: 7.SEP.2020 10:38:52

Maximum 99% Occupied Bandwidth



Date: 11.SEP.2020 17:16:00

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 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.

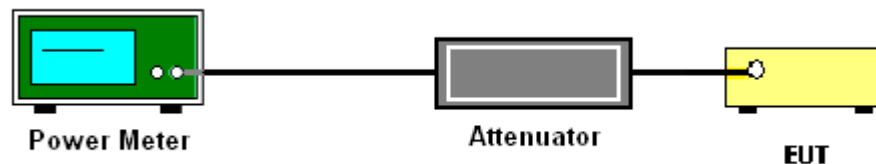
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
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 Average Output Power

Test Engineer :	Jun Yu and Mina Liu	Temperature :	23.6~23.8℃
		Relative Humidity :	53.6~54.3%

2.4GHz Band Single Antenna																
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
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	19.80	20.80	-	30.00	30.00	2.40	3.70	22.20	24.50	36.00	36.00	Pass
11b	1Mbps	1	6	2437	20.80	20.80		30.00	30.00	2.40	3.70	23.20	24.50	36.00	36.00	Pass
11b	1Mbps	1	11	2462	20.90	20.80		30.00	30.00	2.40	3.70	23.30	24.50	36.00	36.00	Pass
11g	6Mbps	1	1	2412	15.90	18.40		30.00	30.00	2.40	3.70	18.30	22.10	36.00	36.00	Pass
11g	6Mbps	1	6	2437	20.40	19.40		30.00	30.00	2.40	3.70	22.80	23.10	36.00	36.00	Pass
11g	6Mbps	1	11	2462	16.10	16.30		30.00	30.00	2.40	3.70	18.50	20.00	36.00	36.00	Pass
HT20	MCS0	1	1	2412	15.20	18.30		30.00	30.00	2.40	3.70	17.60	22.00	36.00	36.00	Pass
HT20	MCS0	1	6	2437	19.30	19.20		30.00	30.00	2.40	3.70	21.70	22.90	36.00	36.00	Pass
HT20	MCS0	1	11	2462	14.80	15.10		30.00	30.00	2.40	3.70	17.20	18.80	36.00	36.00	Pass
HT40	MCS0	1	3	2422	12.10	15.50		30.00	30.00	2.40	3.70	14.50	19.20	36.00	36.00	Pass
HT40	MCS0	1	6	2437	14.20	15.10		30.00	30.00	2.40	3.70	16.60	18.80	36.00	36.00	Pass
HT40	MCS0	1	9	2452	13.60	13.60		30.00	30.00	2.40	3.70	16.00	17.30	36.00	36.00	Pass



2.4GHz Band MIMO																
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
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	19.30	19.90	22.62	30.00		3.70		26.32		36.00		Pass
11b	1Mbps	2	6	2437	20.10	20.80	23.47	30.00		3.70		27.17		36.00		Pass
11b	1Mbps	2	11	2462	20.30	20.20	23.26	30.00		3.70		26.96		36.00		Pass
11g	6Mbps	2	1	2412	16.00	16.20	19.11	30.00		3.70		22.81		36.00		Pass
11g	6Mbps	2	6	2437	18.80	18.90	21.86	30.00		3.70		25.56		36.00		Pass
11g	6Mbps	2	11	2462	15.40	15.50	18.46	30.00		3.70		22.16		36.00		Pass
HT20	MCS0	2	1	2412	15.10	15.70	18.42	30.00		3.70		22.12		36.00		Pass
HT20	MCS0	2	6	2437	18.50	18.30	21.41	30.00		3.70		25.11		36.00		Pass
HT20	MCS0	2	11	2462	14.30	14.50	17.41	30.00		3.70		21.11		36.00		Pass
HT40	MCS0	2	3	2422	12.30	12.40	15.36	30.00		3.70		19.06		36.00		Pass
HT40	MCS0	2	6	2437	14.30	14.50	17.41	30.00		3.70		21.11		36.00		Pass
HT40	MCS0	2	9	2452	13.30	13.20	16.26	30.00		3.70		19.96		36.00		Pass

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

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

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 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.

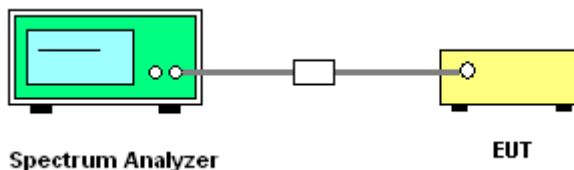
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

3.3.4 Test Setup



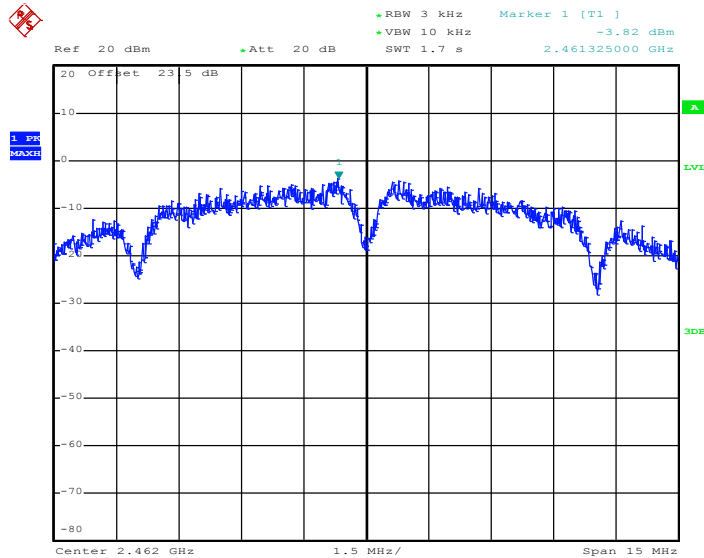
3.3.5 Test Result of Power Spectral Density

Test Engineer :	Jun Yu and Mina Liu	Temperature :	23.6~23.8℃
		Relative Humidity :	53.6~54.3%

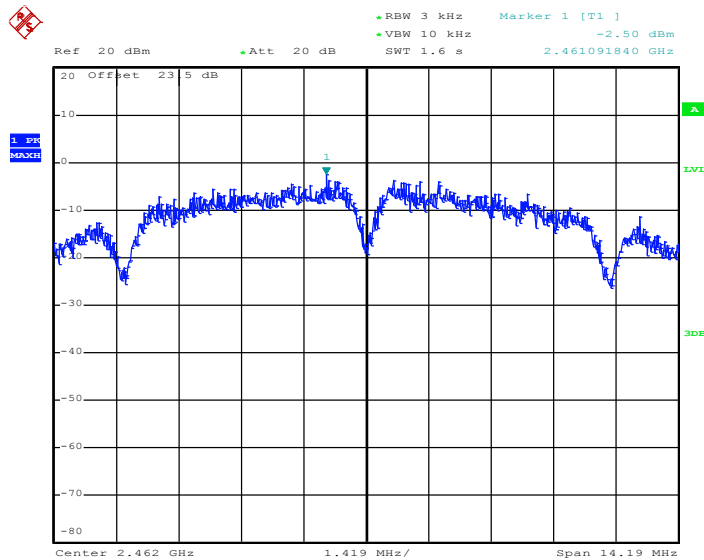
2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-4.31	-4.01		2.40	3.70	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-2.84	-5.09		2.40	3.70	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-1.85	-4.65		2.40	3.70	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-9.70	-8.02		2.40	3.70	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-6.37	-6.48		2.40	3.70	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-8.24	-9.55		2.40	3.70	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-9.91	-7.55		2.40	3.70	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-5.74	-7.17		2.40	3.70	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-11.24	-12.07		2.40	3.70	8.00	8.00	Pass
HT40	MCS0	1	3	2422	-16.61	-13.12		2.40	3.70	8.00	8.00	Pass
HT40	MCS0	1	6	2437	-15.00	-14.65		2.40	3.70	8.00	8.00	Pass
HT40	MCS0	1	9	2452	-15.88	-15.56		2.40	3.70	8.00	8.00	Pass

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	-4.30	-3.55	-0.54	6.08		7.92		Pass
11b	1Mbps	2	6	2437	-4.97	-3.97	-0.96	6.08		7.92		Pass
11b	1Mbps	2	11	2462	-3.82	-2.50	0.51	6.08		7.92		Pass
11g	6Mbps	2	1	2412	-10.12	-10.03	-7.02	6.08		7.92		Pass
11g	6Mbps	2	6	2437	-6.15	-7.19	-3.14	6.08		7.92		Pass
11g	6Mbps	2	11	2462	-9.62	-9.93	-6.61	6.08		7.92		Pass
HT20	MCS0	2	1	2412	-10.98	-10.55	-7.54	6.08		7.92		Pass
HT20	MCS0	2	6	2437	-8.42	-7.26	-4.25	6.08		7.92		Pass
HT20	MCS0	2	11	2462	-11.23	-11.80	-8.22	6.08		7.92		Pass
HT40	MCS0	2	3	2422	-15.35	-16.79	-12.34	6.08		7.92		Pass
HT40	MCS0	2	6	2437	-15.06	-14.14	-11.13	6.08		7.92		Pass
HT40	MCS0	2	9	2452	-17.00	-17.05	-13.99	6.08		7.92		Pass

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

Worst Case Power Density (dBm/3kHz) for MIMO Ant. 1


Date: 7.SEP.2020 11:24:02

Worst Case Power Density (dBm/3kHz) for MIMO Ant. 2


Date: 7.SEP.2020 11:28:44

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.

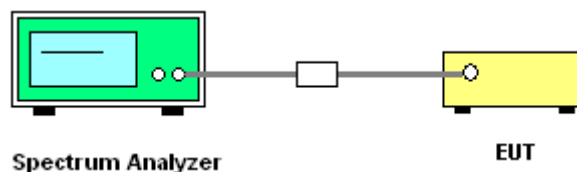
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
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



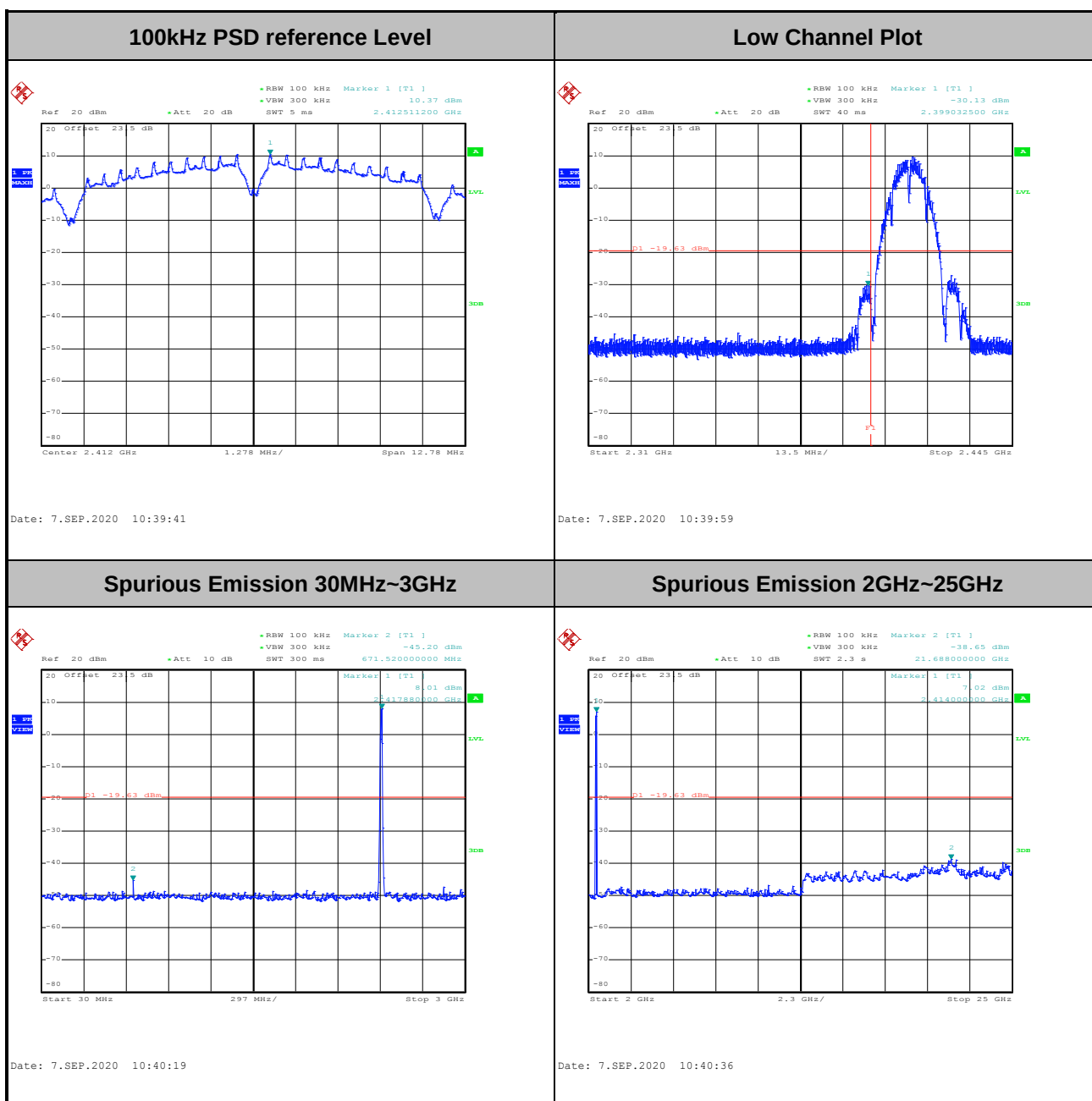


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Jun Yu and Mina Liu	Temperature :	23.6~23.8°C
		Relative Humidity :	53.6~54.3%

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

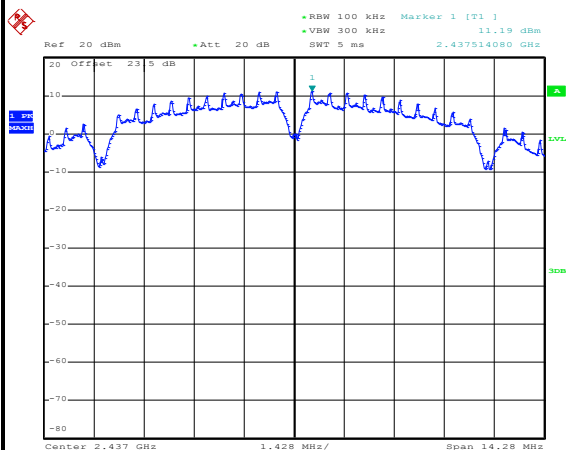
Test Mode :	802.11b	Test Channel :	01
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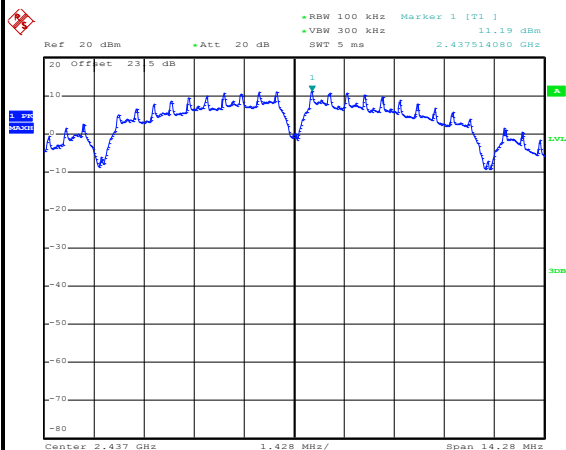
Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level

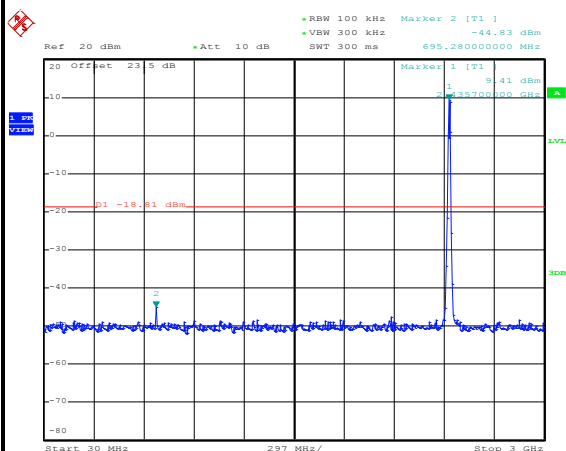


Date: 7.SEP.2020 10:44:01

Mid Channel Plot

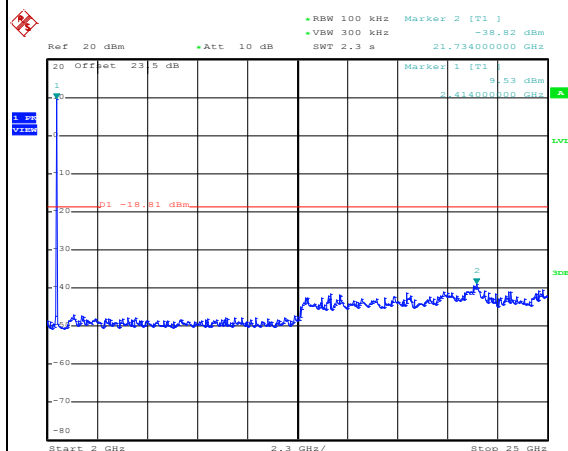


Spurious Emission 30MHz~3GHz



Date: 7.SEP.2020 10:44:37

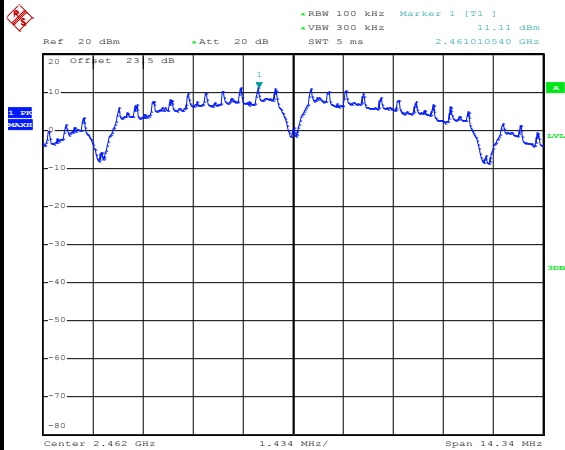
Spurious Emission 2GHz~25GHz



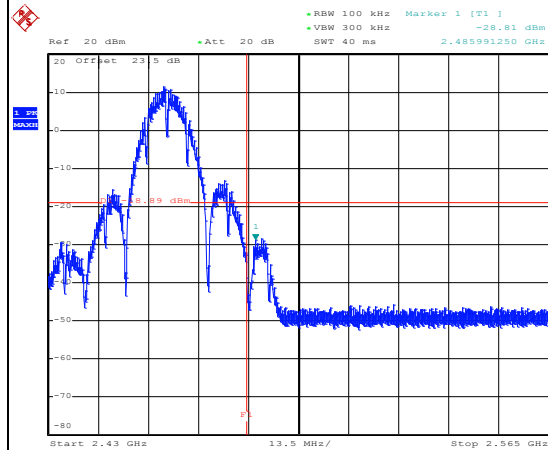
Date: 7.SEP.2020 10:44:53



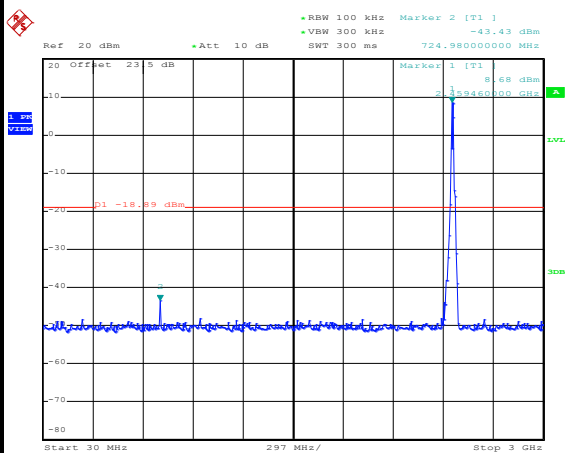
Test Mode :	802.11b	Test Channel :	11
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100kHz PSD reference Level

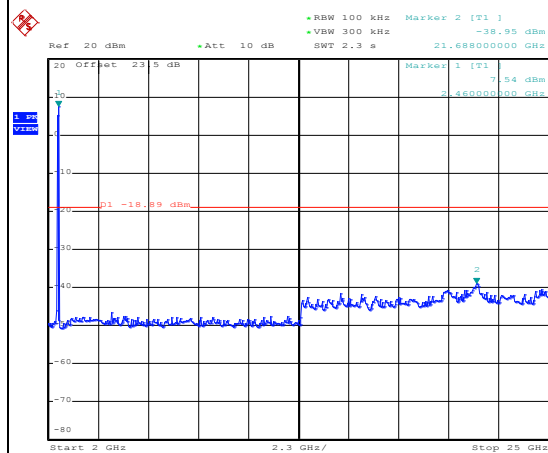
Date: 7.SEP.2020 10:47:42

High Channel Plot

Date: 7.SEP.2020 10:48:36

Spurious Emission 30MHz~3GHz

Date: 7.SEP.2020 10:48:58

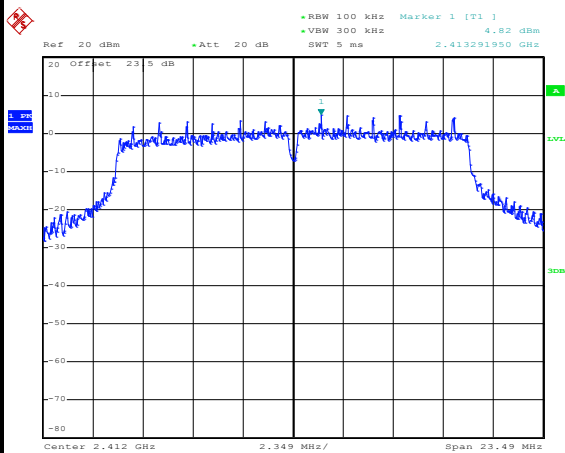
Spurious Emission 2GHz~25GHz

Date: 7.SEP.2020 10:49:32



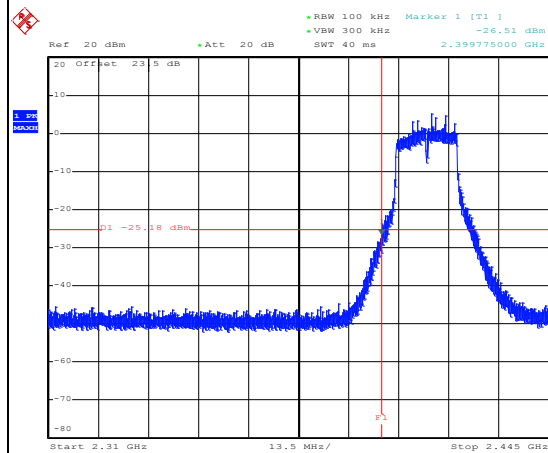
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



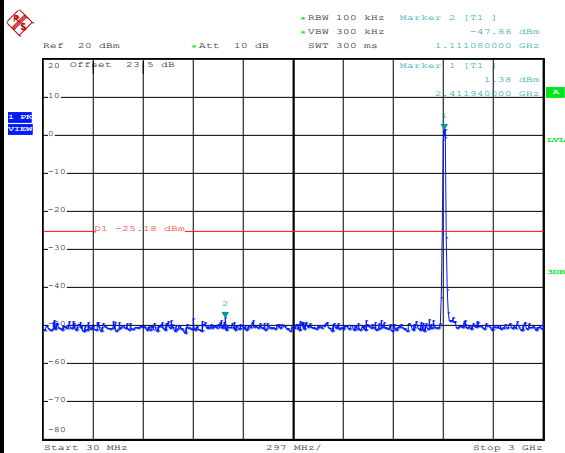
Date: 11.SEP.2020 11:43:34

Low Channel Plot



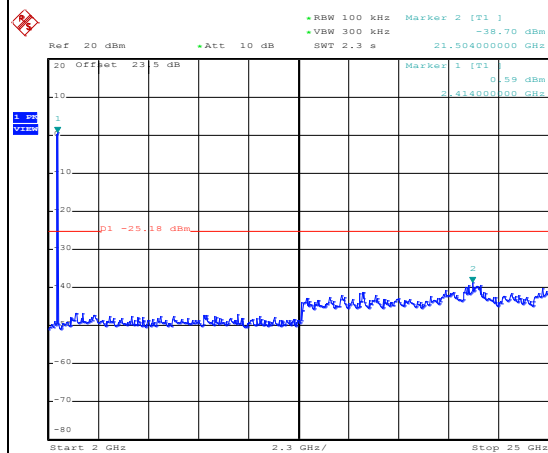
Date: 11.SEP.2020 11:43:56

Spurious Emission 30MHz~3GHz



Date: 11.SEP.2020 11:47:08

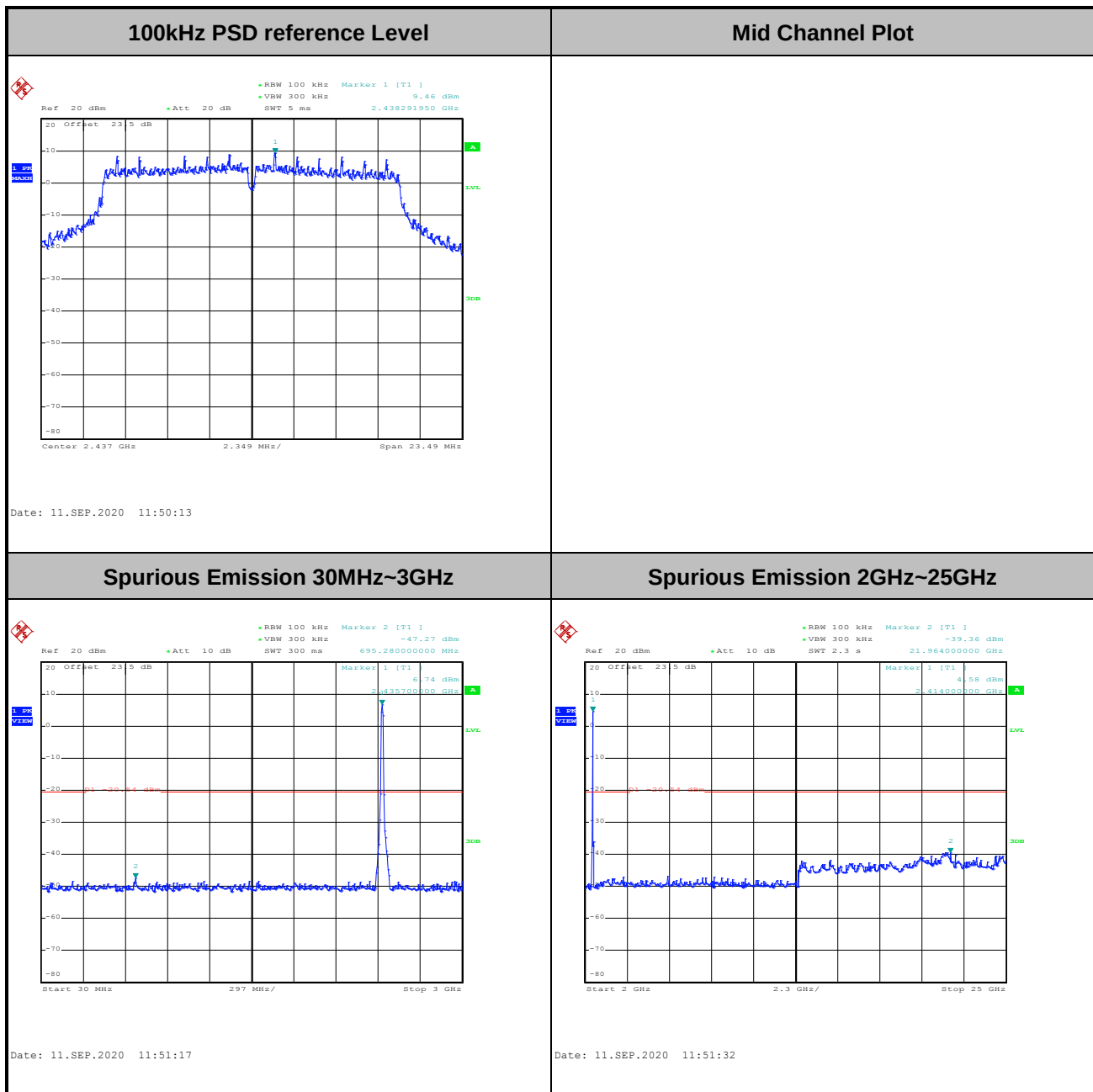
Spurious Emission 2GHz~25GHz



Date: 11.SEP.2020 11:47:25



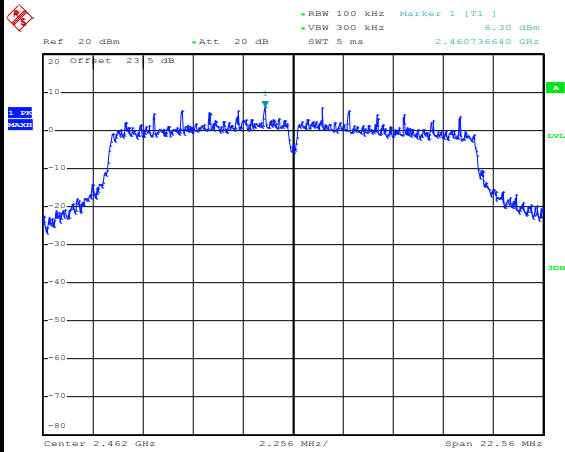
Test Mode :	802.11g	Test Channel :	06
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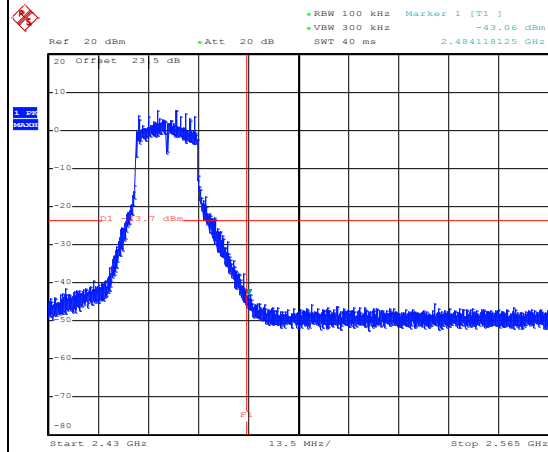
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



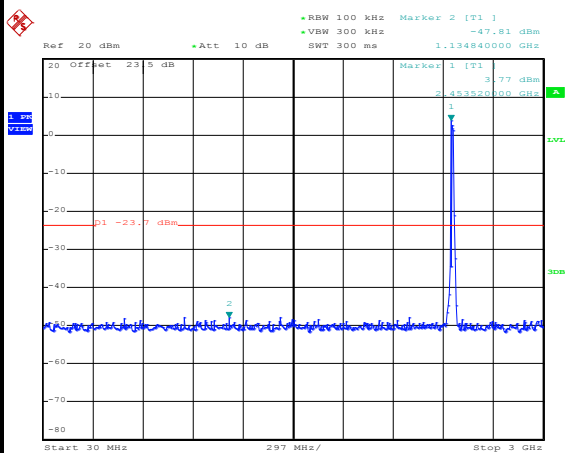
Date: 11.SEP.2020 13:51:06

High Channel Plot



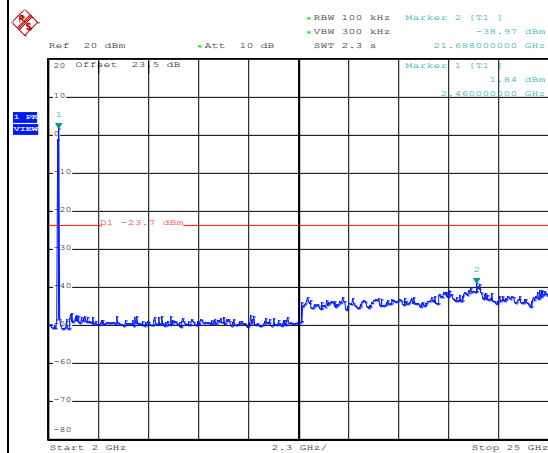
Date: 11.SEP.2020 13:51:27

Spurious Emission 30MHz~3GHz



Date: 11.SEP.2020 13:51:45

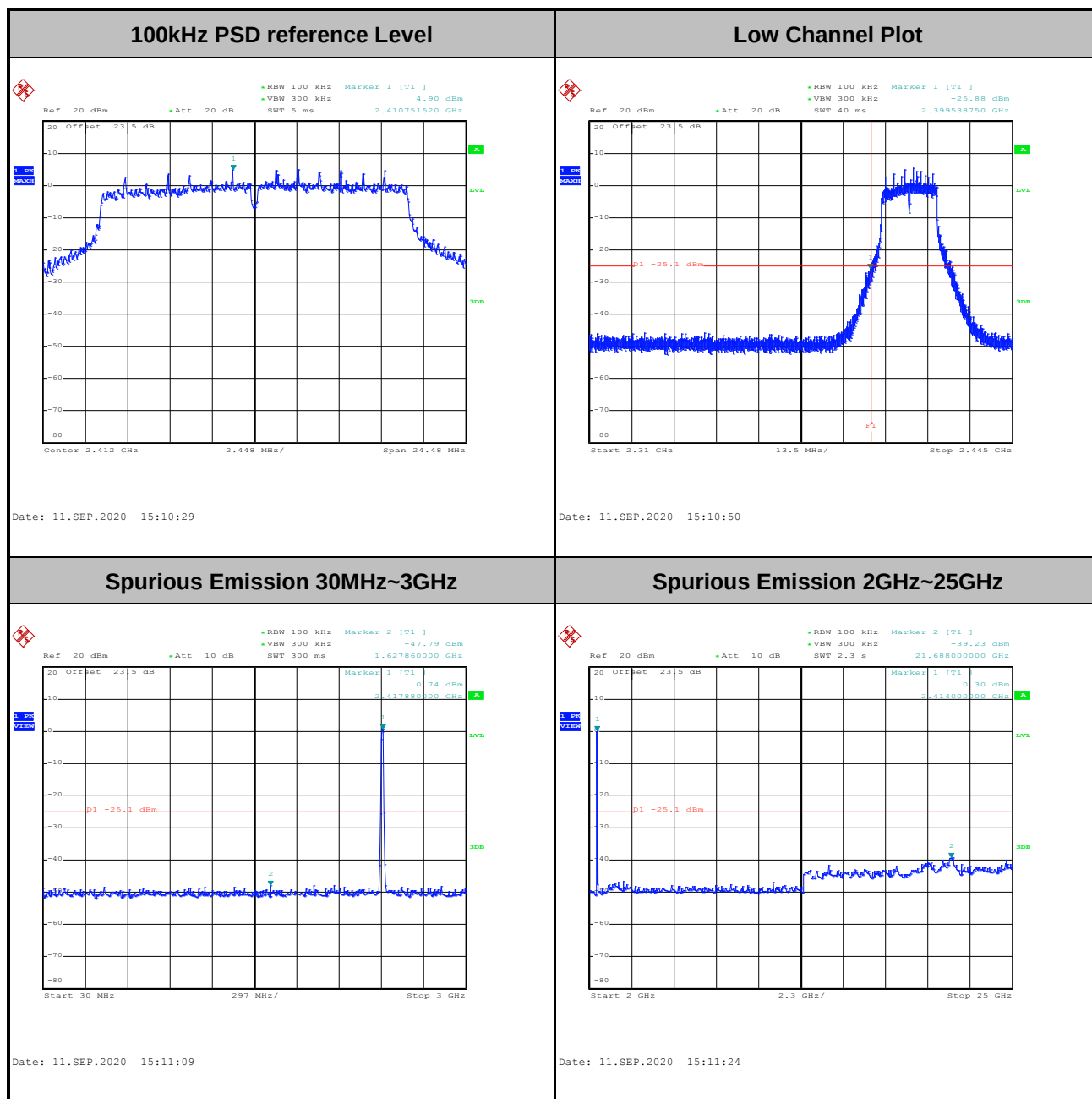
Spurious Emission 2GHz~25GHz



Date: 11.SEP.2020 13:52:03

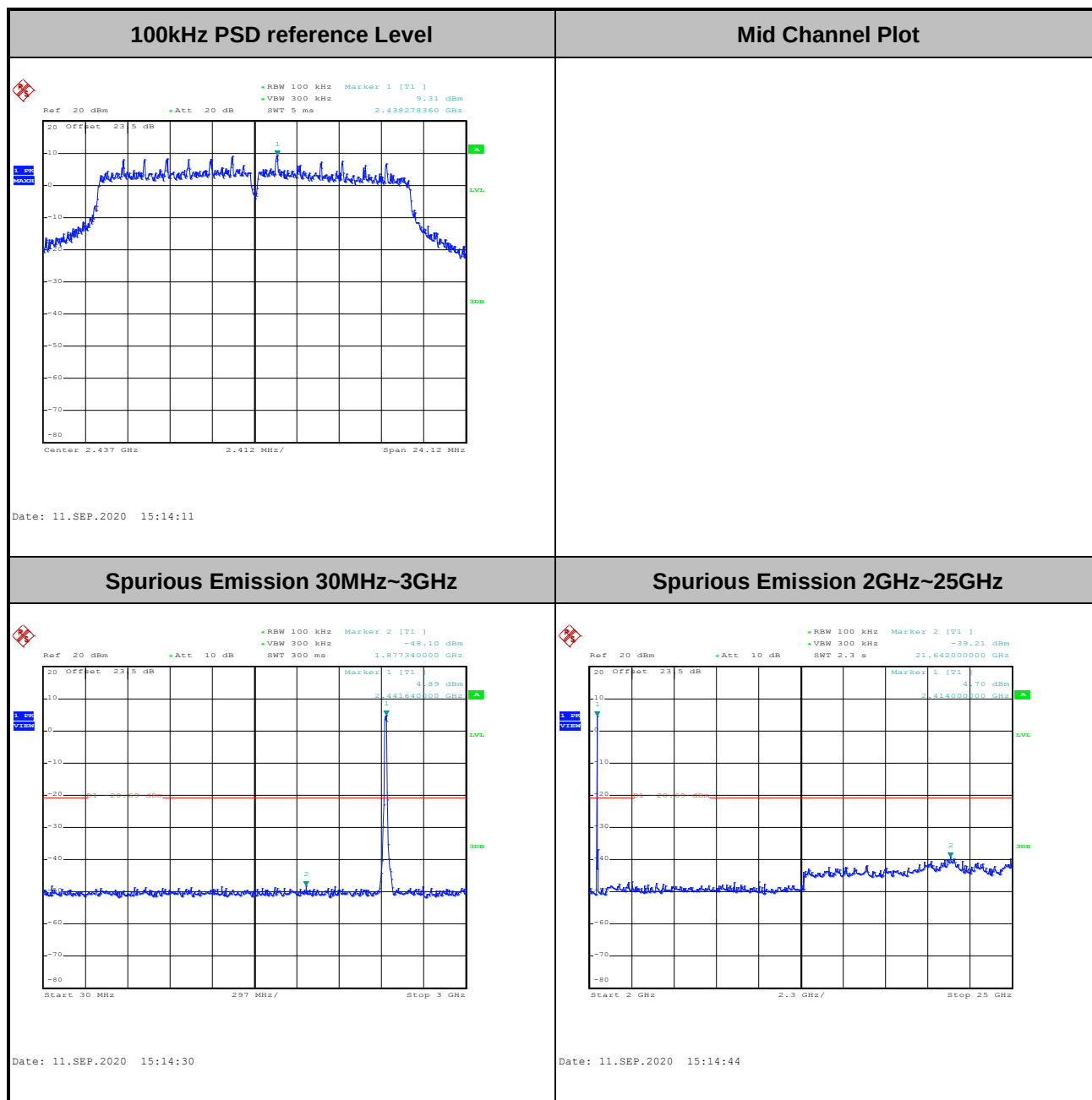


Test Mode :	802.11n HT20	Test Channel :	01
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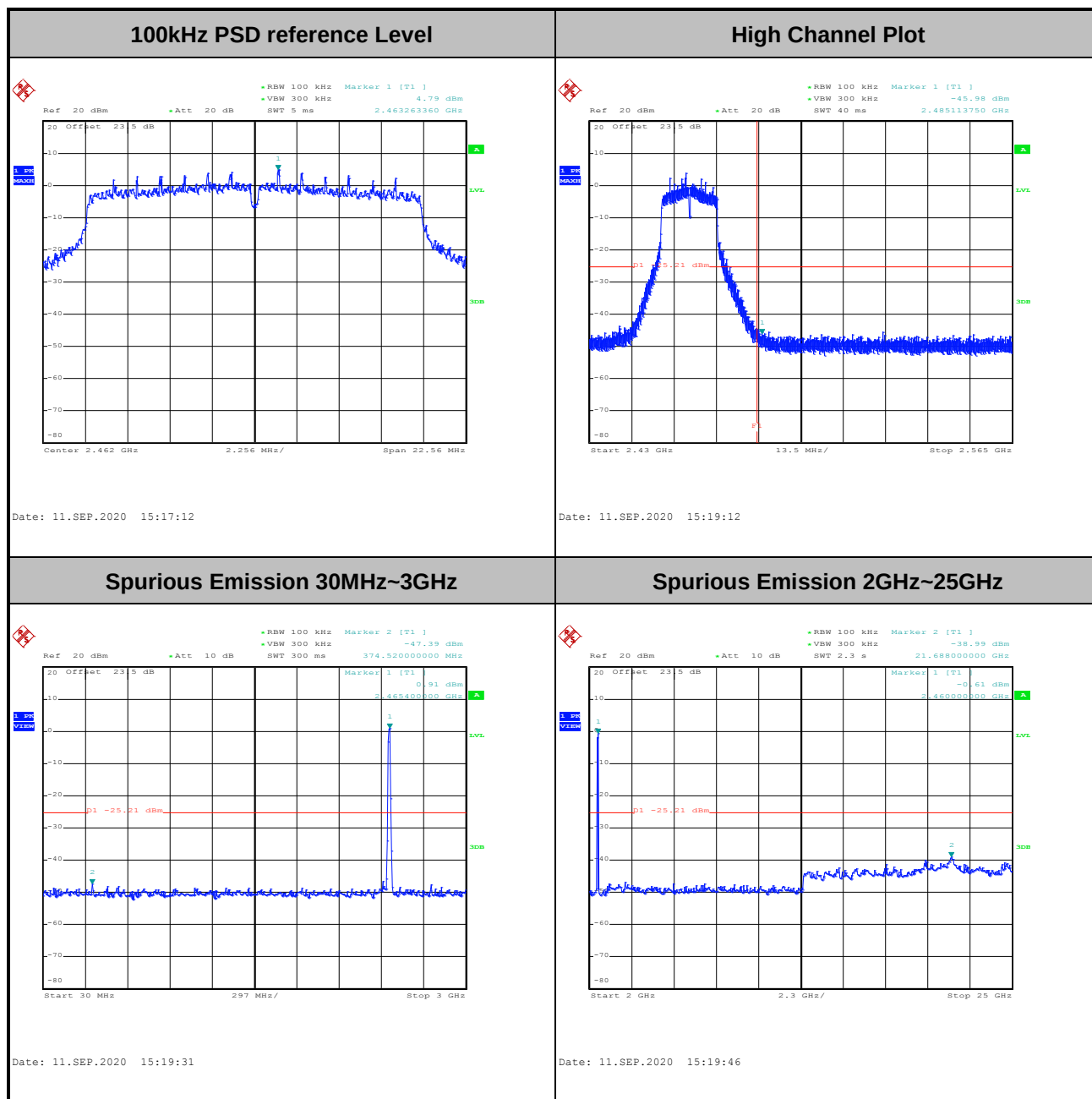


Test Mode :	802.11n HT20	Test Channel :	06
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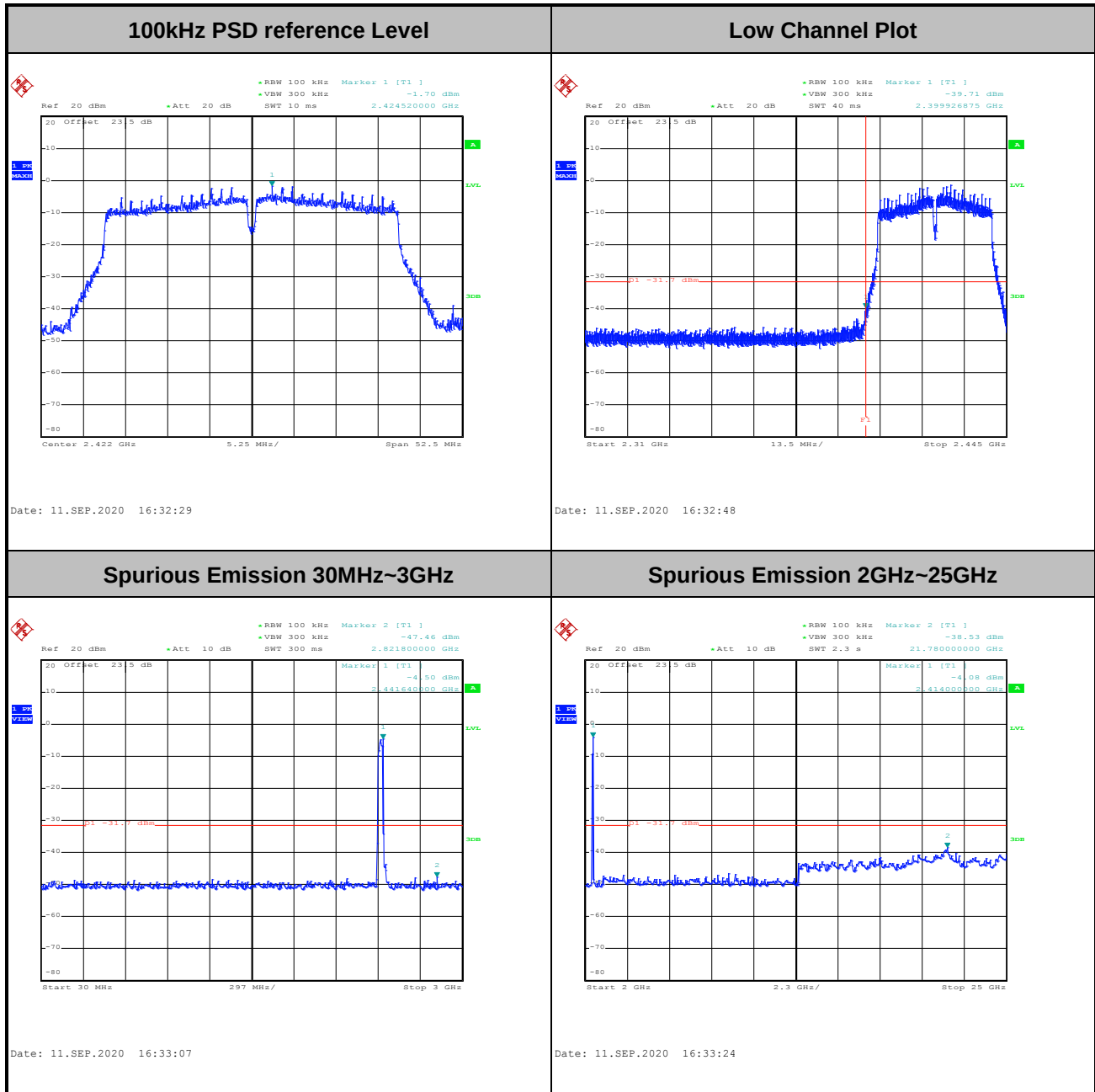


Test Mode :	802.11n HT20	Test Channel :	11
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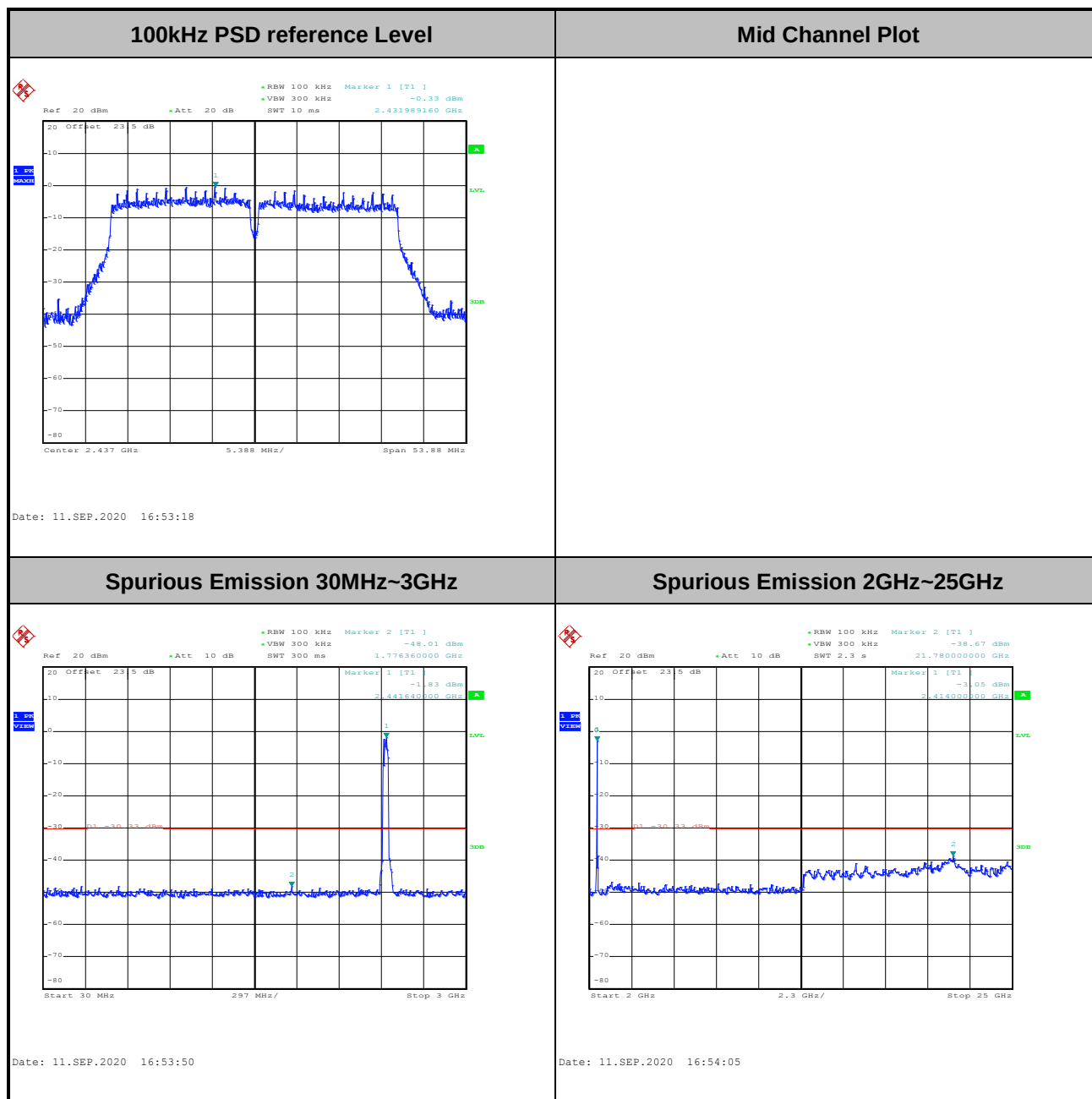


Test Mode :	802.11n HT40	Test Channel :	03
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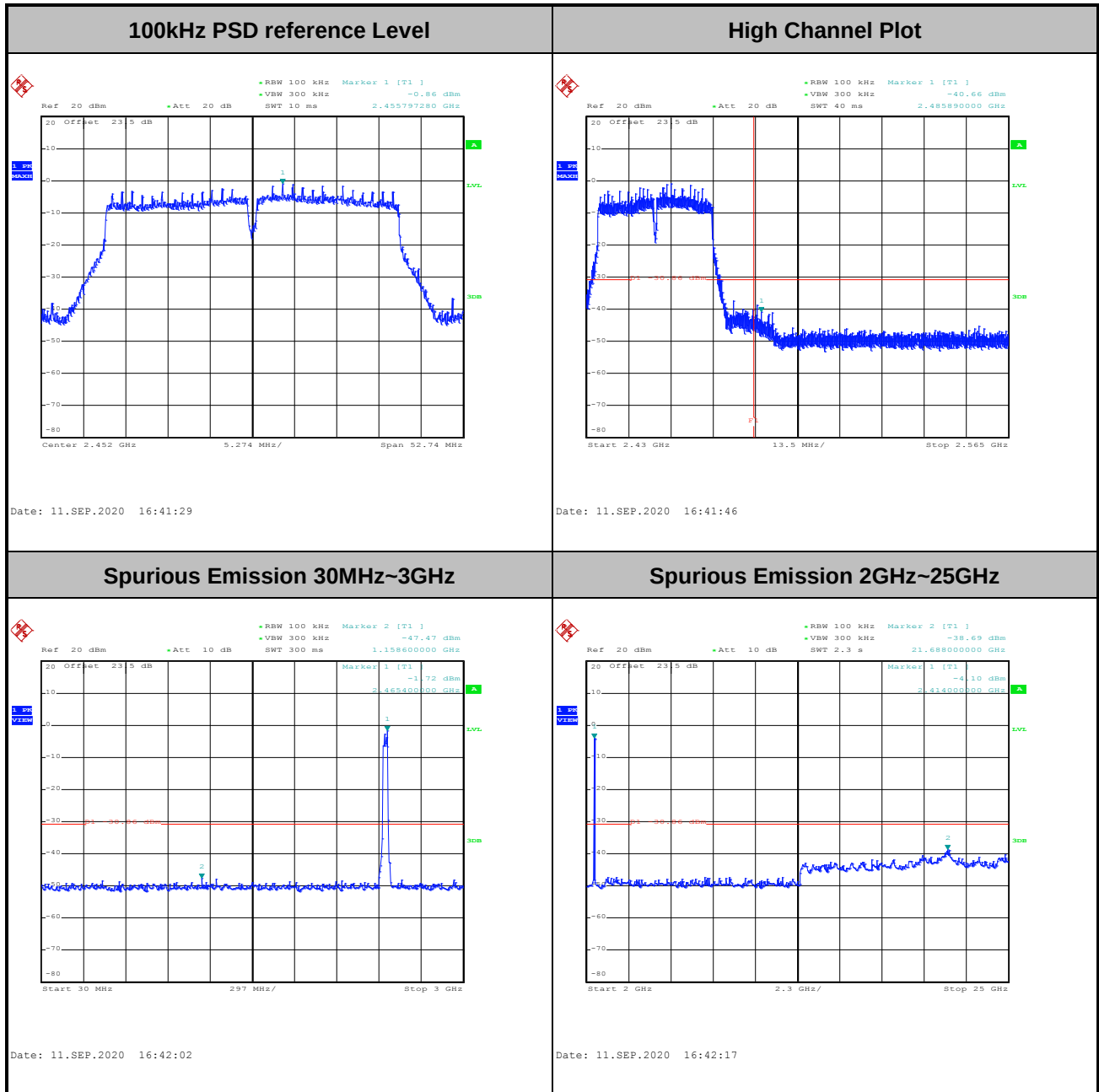


Test Mode :	802.11n HT40	Test Channel :	06
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Test Mode :	802.11n HT40	Test Channel :	09
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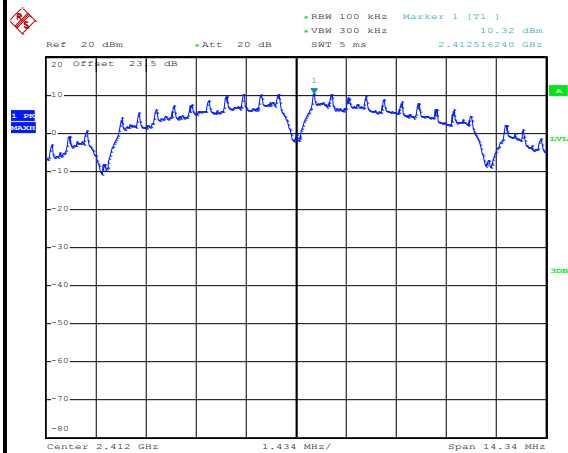




Number of TX = 1, Ant. 2 (Measured)

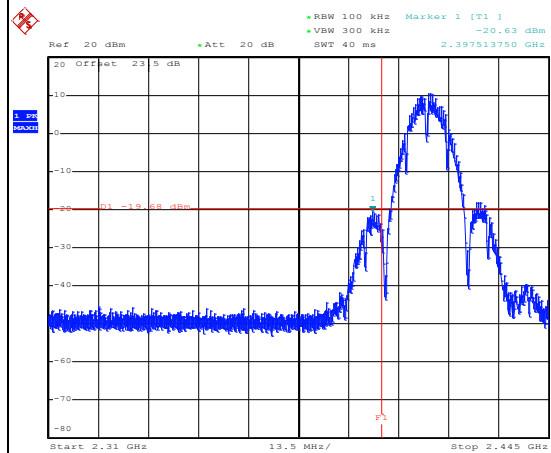
Test Mode :	802.11b	Test Channel :	01
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100kHz PSD reference Level



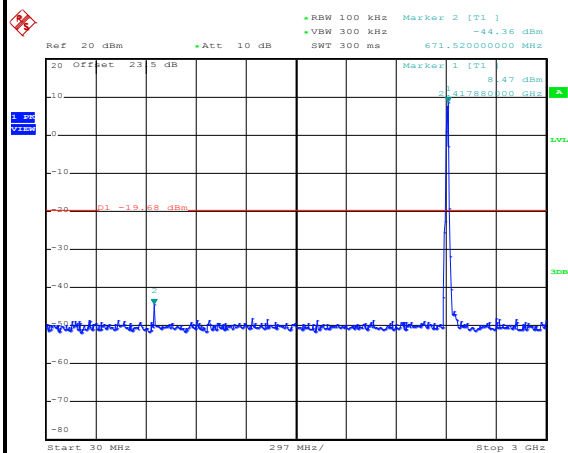
Date: 7.SEP.2020 10:52:19

Low Channel Plot



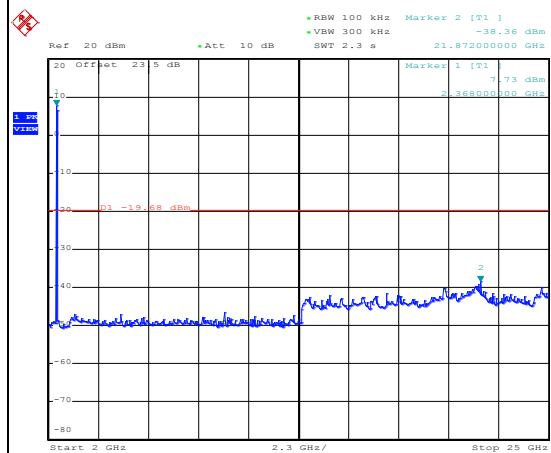
Date: 7.SEP.2020 10:52:37

Spurious Emission 30MHz~3GHz



Date: 7.SEP.2020 10:52:57

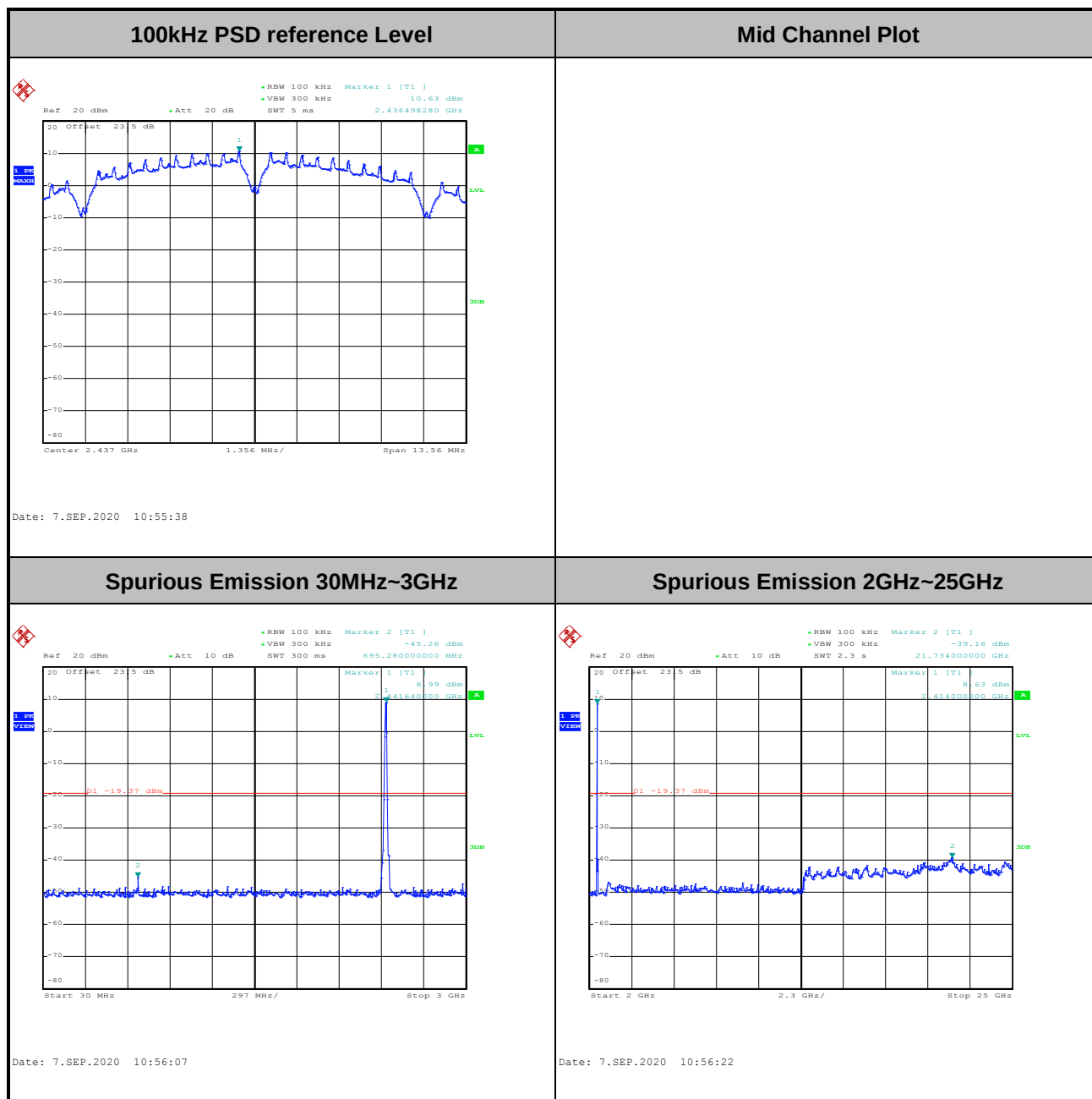
Spurious Emission 2GHz~25GHz



Date: 7.SEP.2020 10:53:13



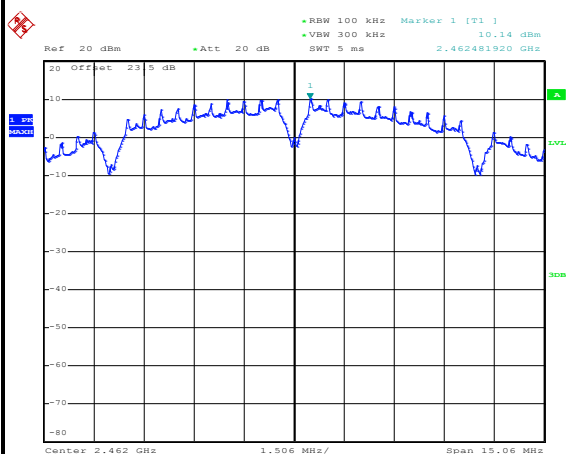
Test Mode :	802.11b	Test Channel :	06
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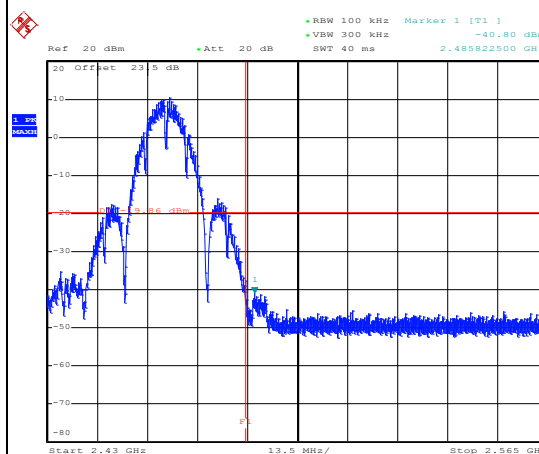
Test Mode :	802.11b	Test Channel :	11
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100kHz PSD reference Level



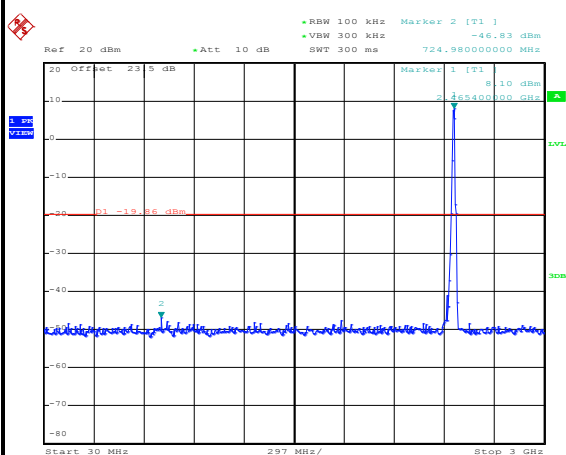
Date: 7.SEP.2020 10:58:30

High Channel Plot



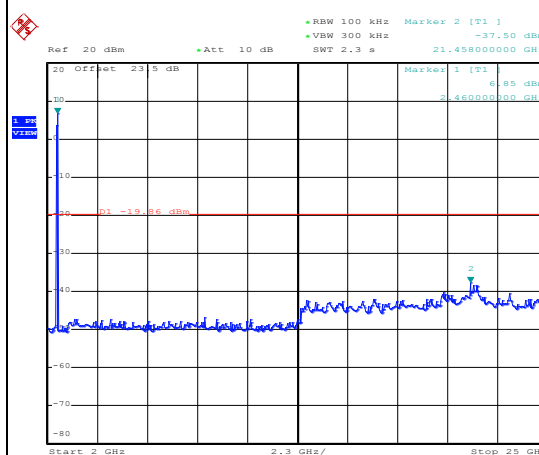
Date: 7.SEP.2020 11:00:17

Spurious Emission 30MHz~3GHz



Date: 7.SEP.2020 11:00:42

Spurious Emission 2GHz~25GHz

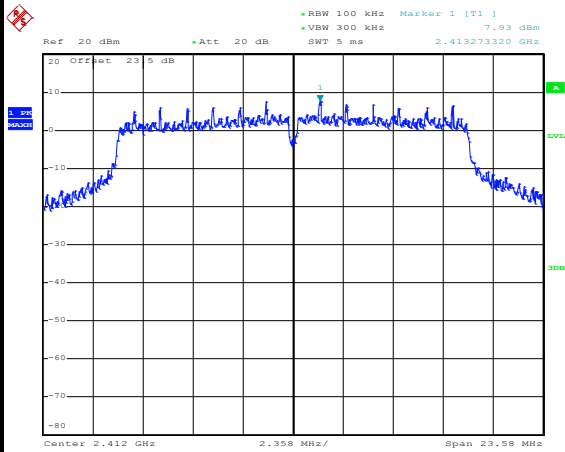


Date: 7.SEP.2020 11:00:58



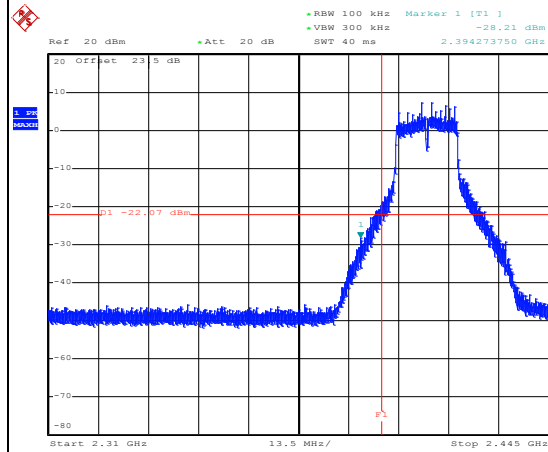
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



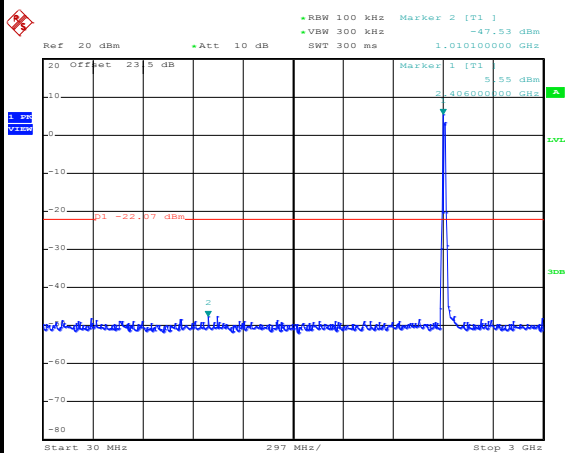
Date: 11.SEP.2020 14:00:15

Low Channel Plot



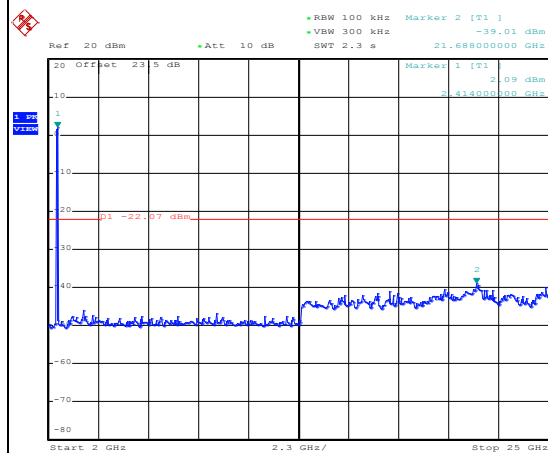
Date: 11.SEP.2020 14:01:13

Spurious Emission 30MHz~3GHz



Date: 11.SEP.2020 14:14:50

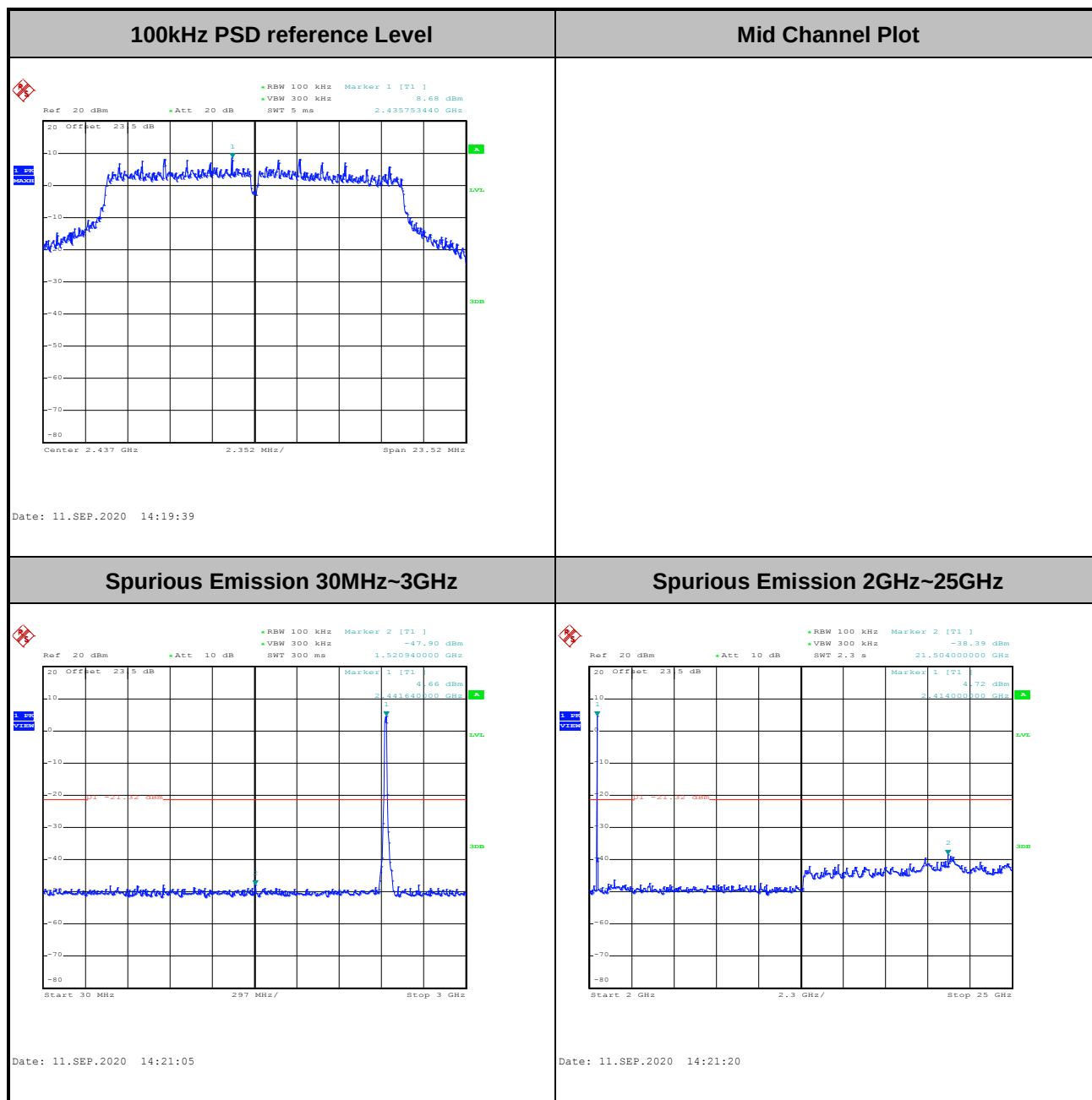
Spurious Emission 2GHz~25GHz



Date: 11.SEP.2020 14:15:35

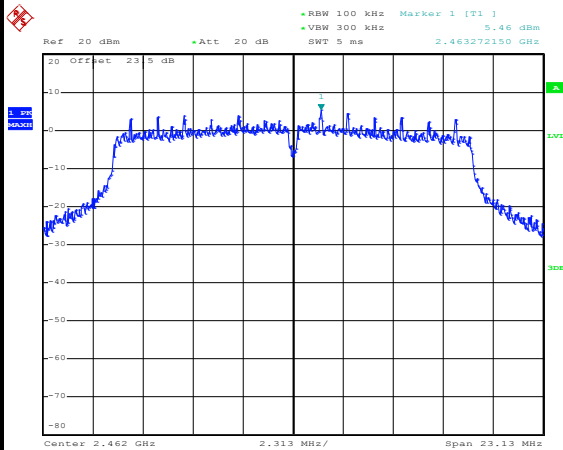


Test Mode :	802.11g	Test Channel :	06
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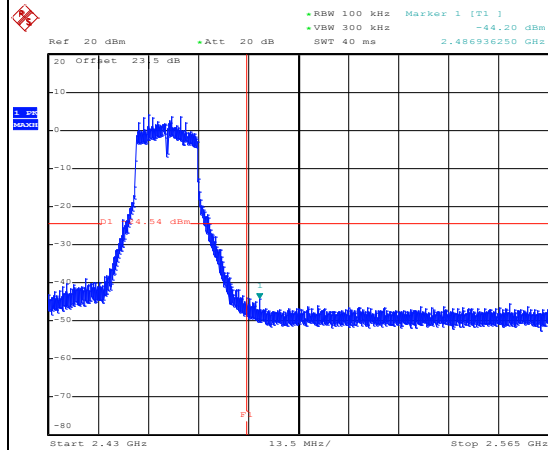




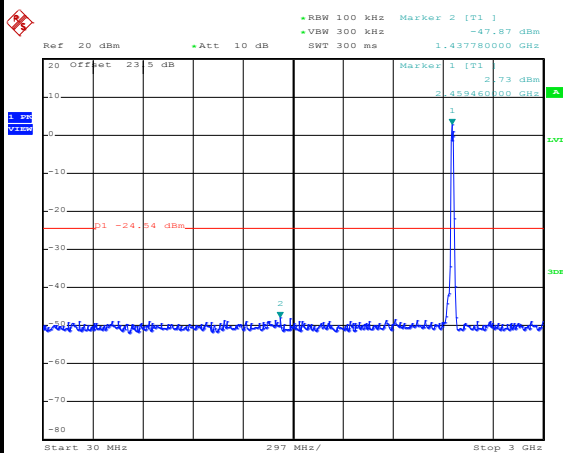
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level

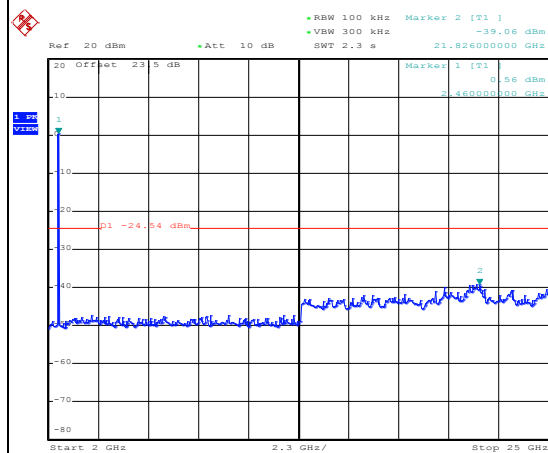
Date: 11.SEP.2020 14:25:28

High Channel Plot

Date: 11.SEP.2020 14:26:03

Spurious Emission 30MHz~3GHz

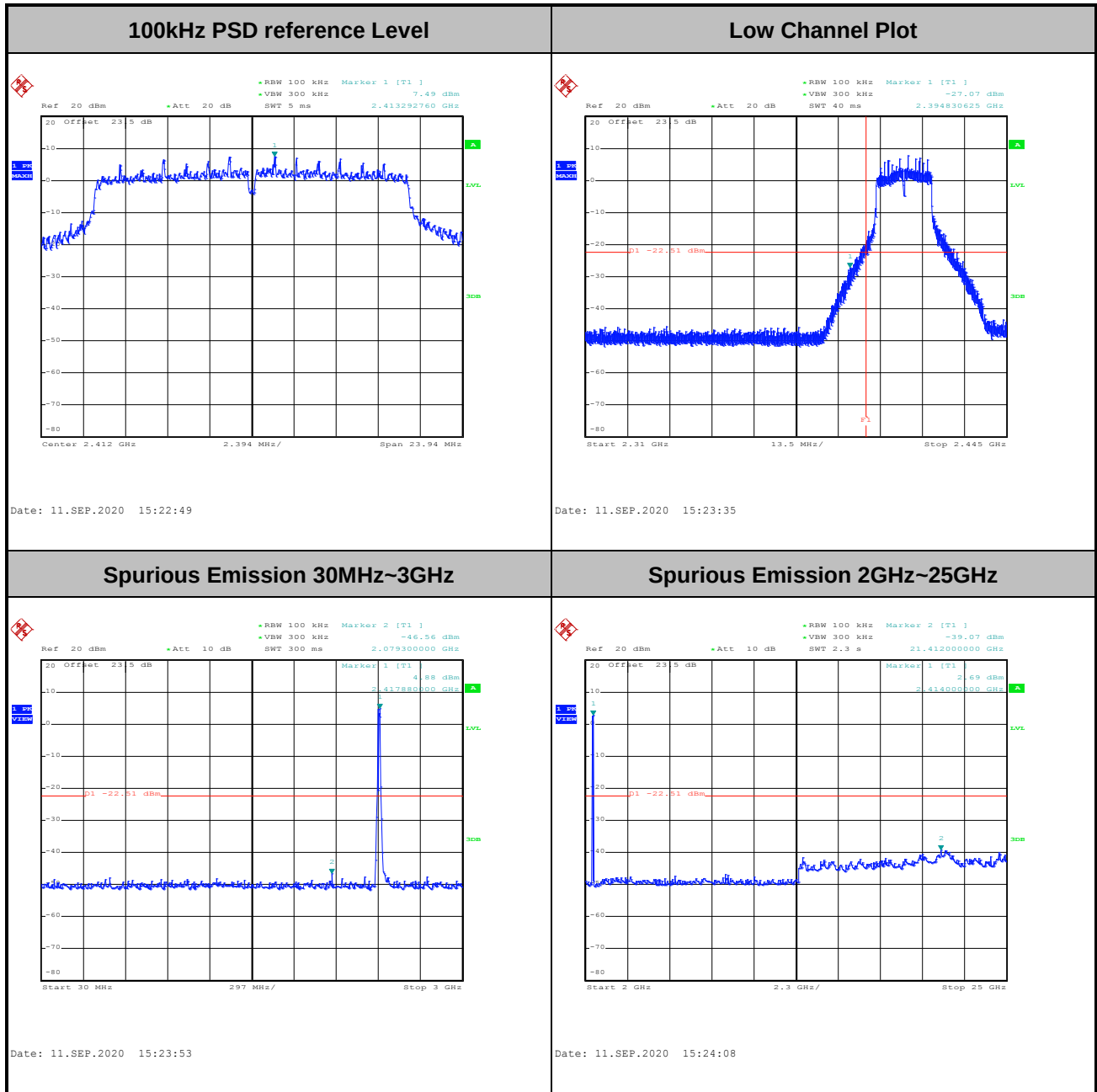
Date: 11.SEP.2020 14:26:48

Spurious Emission 2GHz~25GHz

Date: 11.SEP.2020 14:27:03

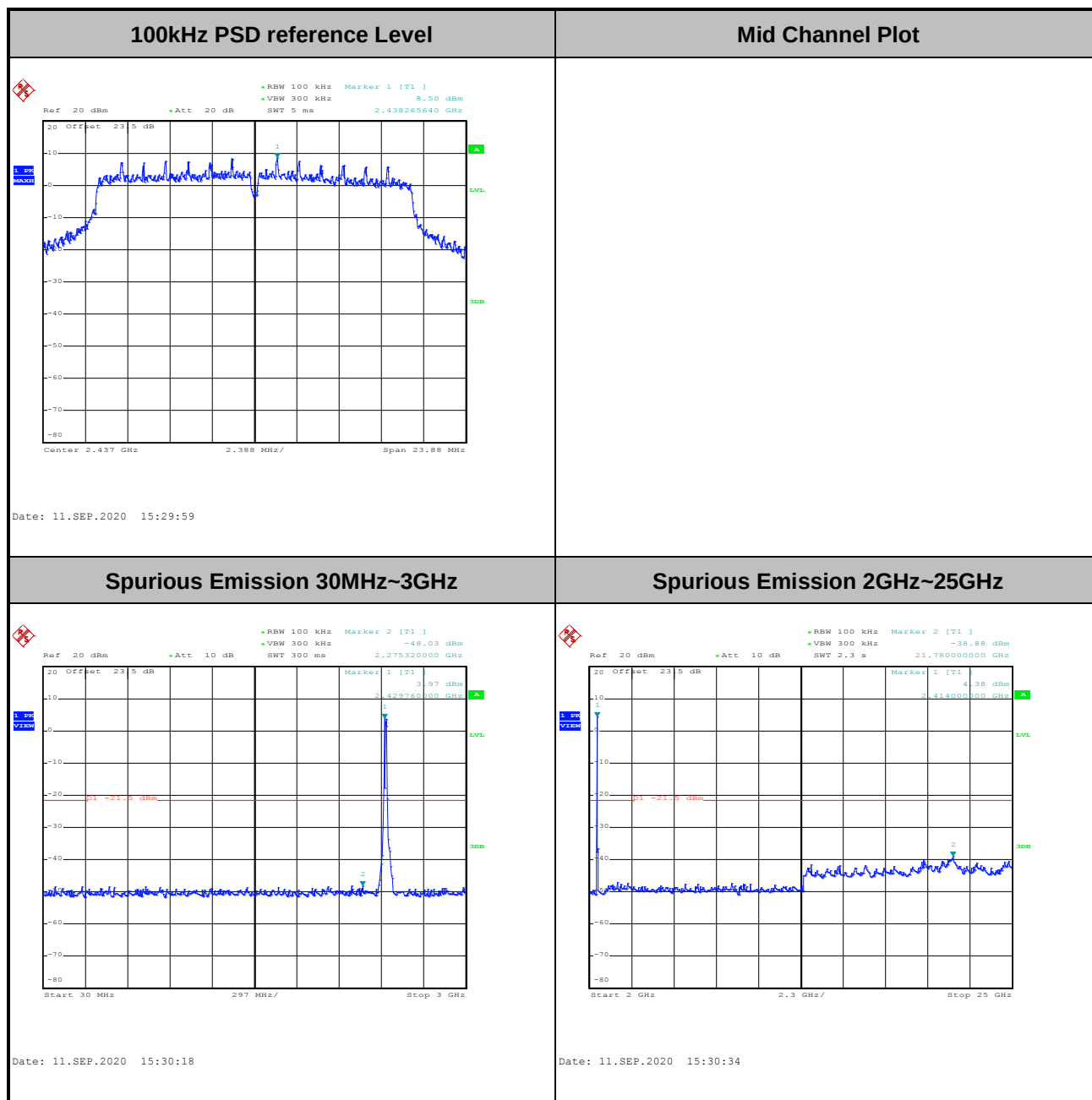


Test Mode :	802.11n HT20	Test Channel :	01
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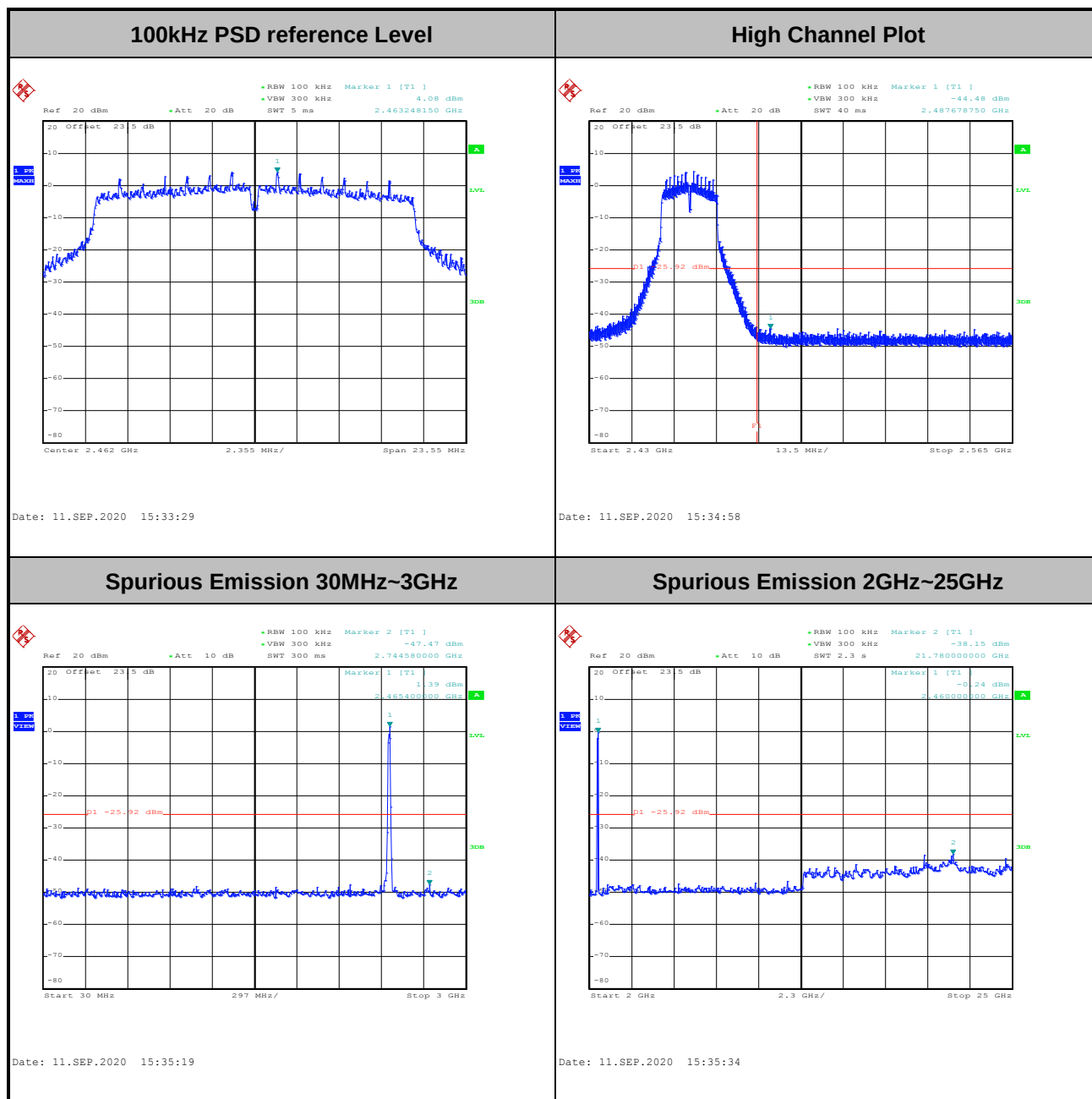


Test Mode :	802.11n HT20	Test Channel :	06
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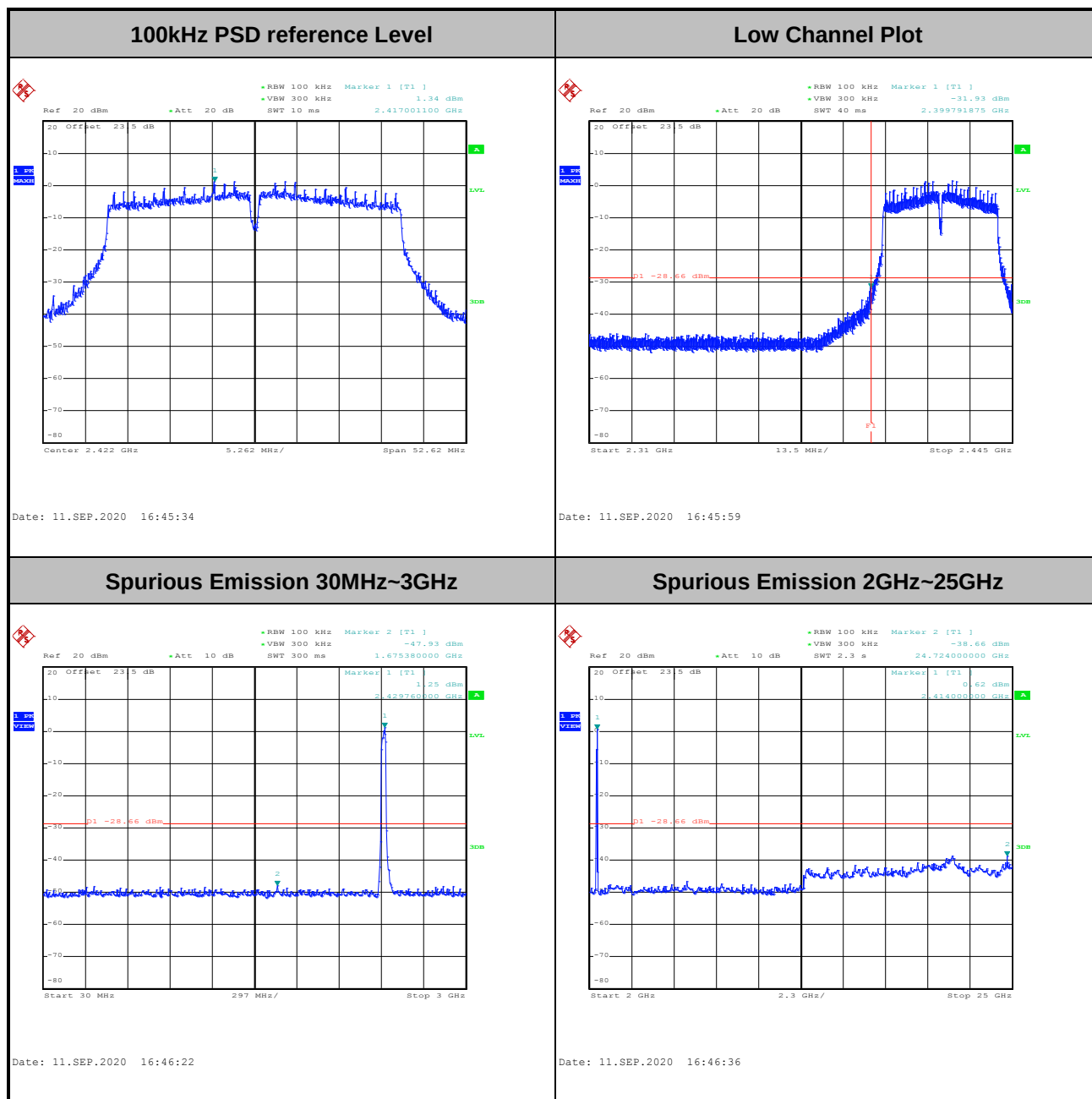


Test Mode :	802.11n HT20	Test Channel :	11
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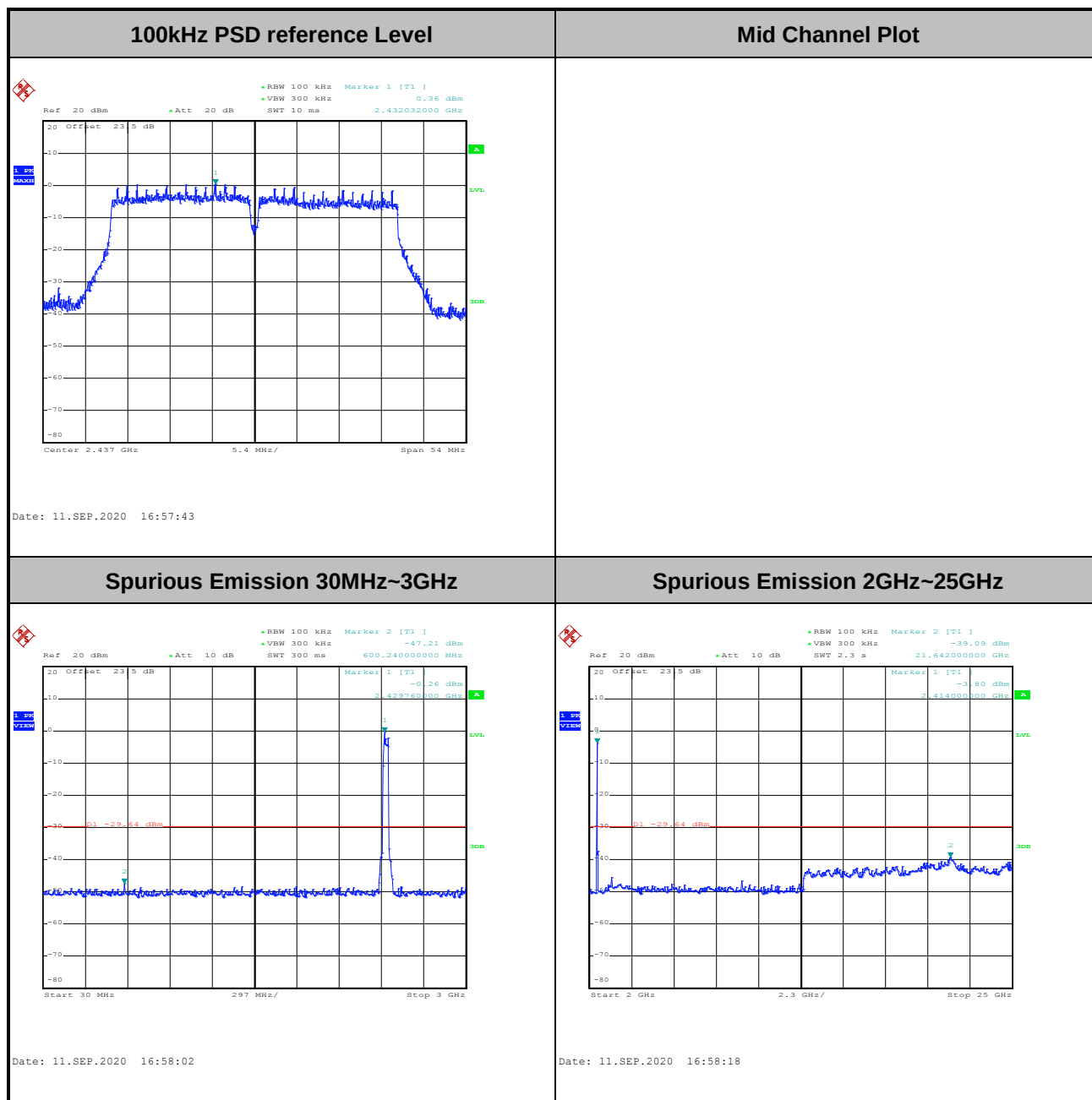


Test Mode :	802.11n HT40	Test Channel :	03
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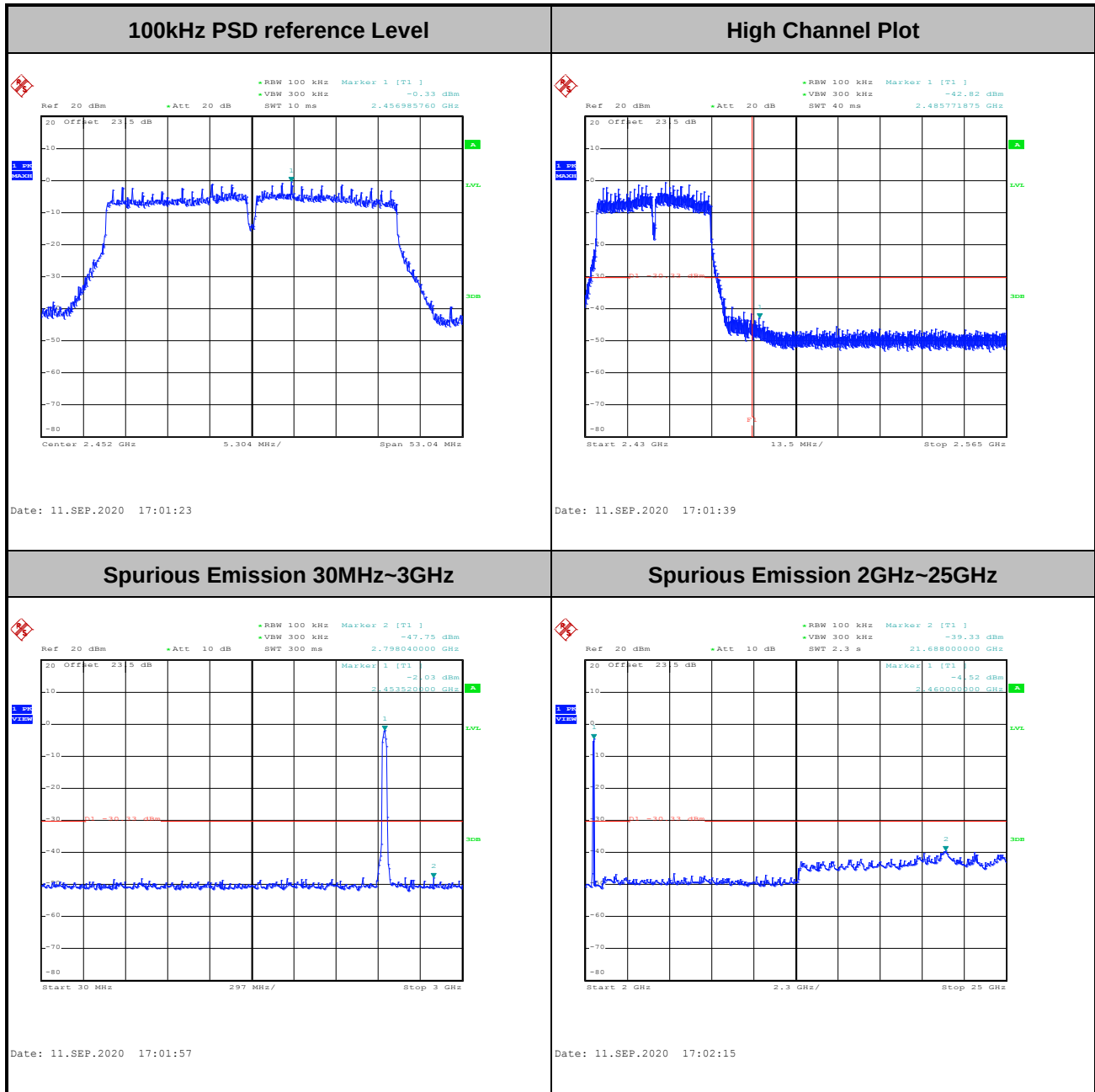


Test Mode :	802.11n HT40	Test Channel :	06
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Test Mode :	802.11n HT40	Test Channel :	09
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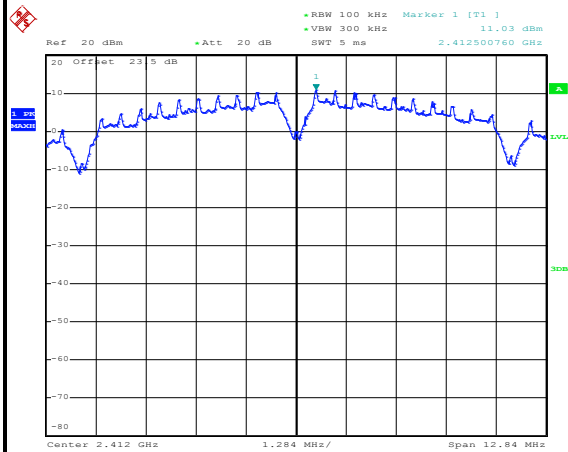


<CDD Modes>

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

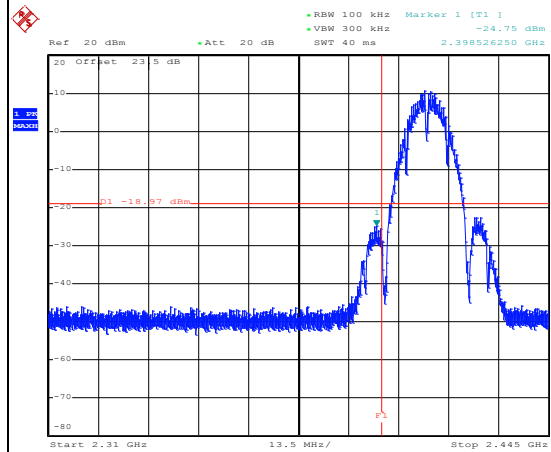
Test Mode :	802.11b	Test Channel :	01
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100kHz PSD reference Level



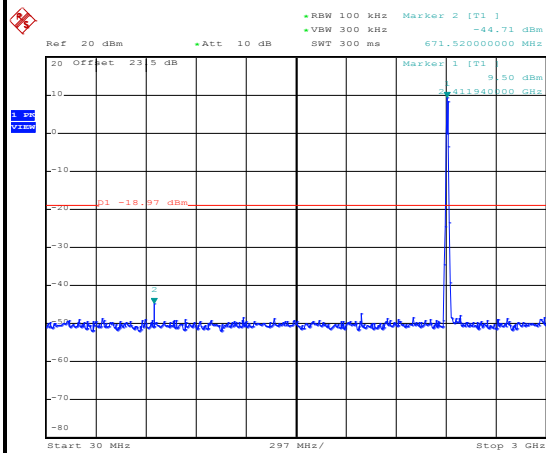
Date: 7.SEP.2020 11:06:43

Low Channel Plot



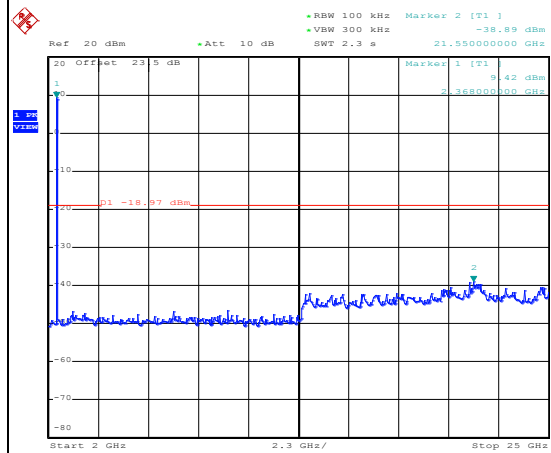
Date: 7.SEP.2020 11:08:23

Spurious Emission 30MHz~3GHz



Date: 7.SEP.2020 11:08:40

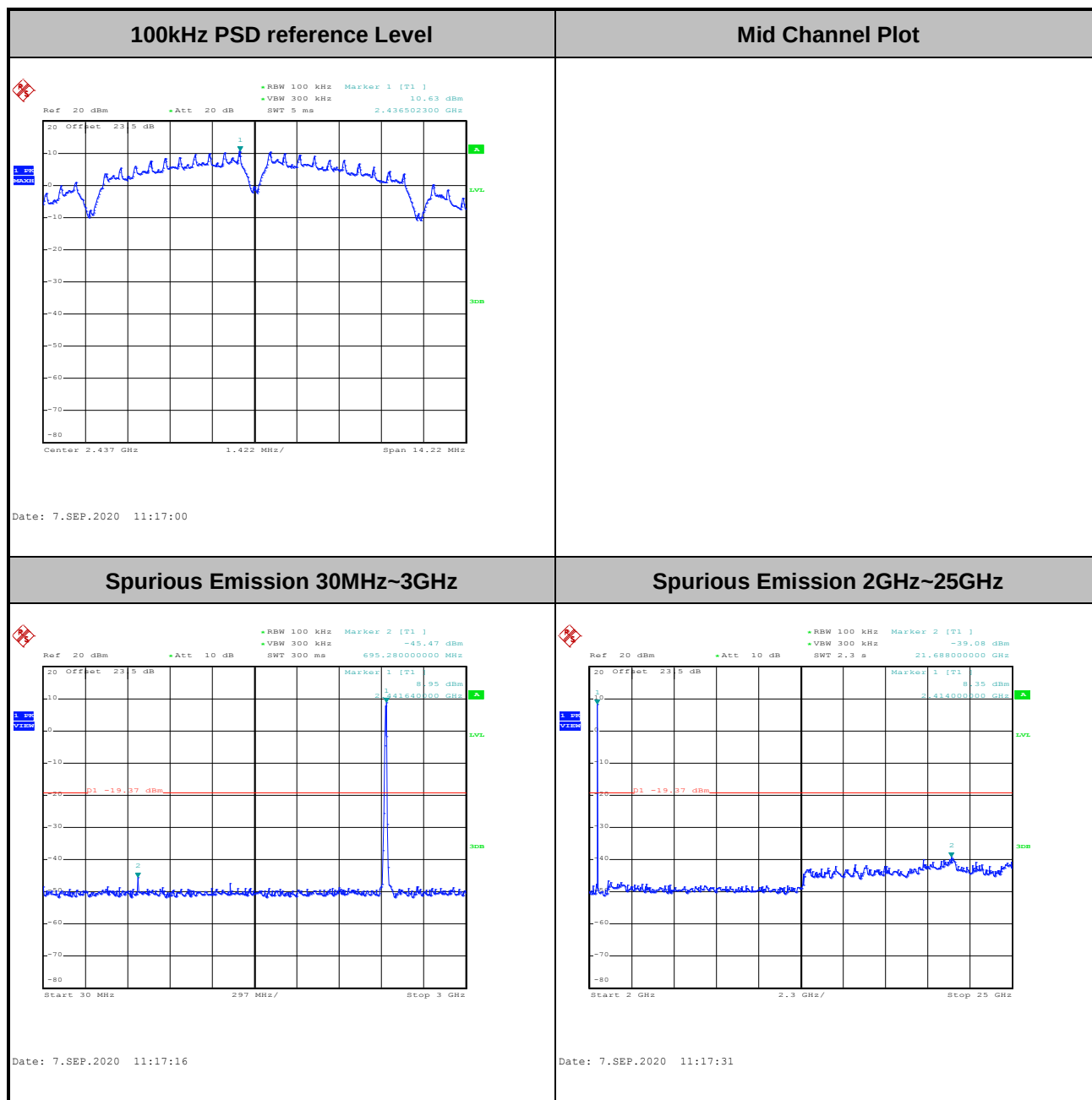
Spurious Emission 2GHz~25GHz



Date: 7.SEP.2020 11:08:59



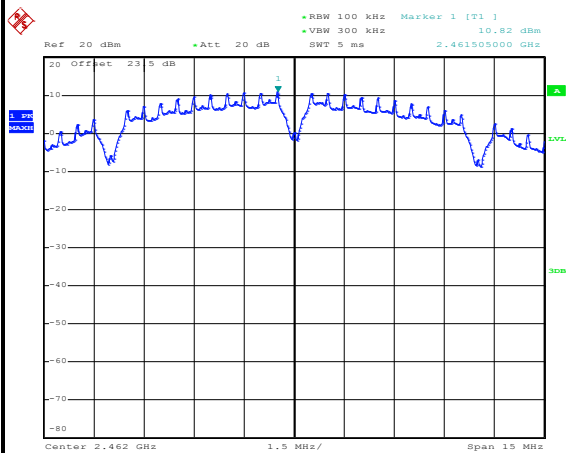
Test Mode :	802.11b	Test Channel :	06
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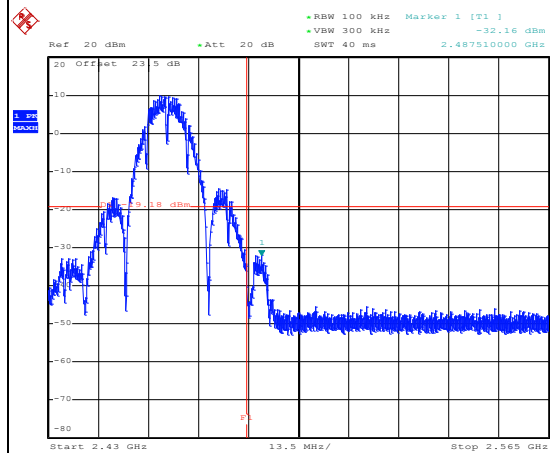
Test Mode :	802.11b	Test Channel :	11
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100kHz PSD reference Level



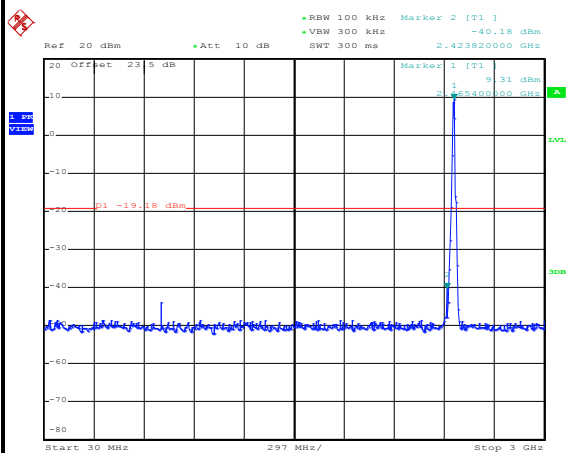
Date: 7.SEP.2020 11:24:46

High Channel Plot



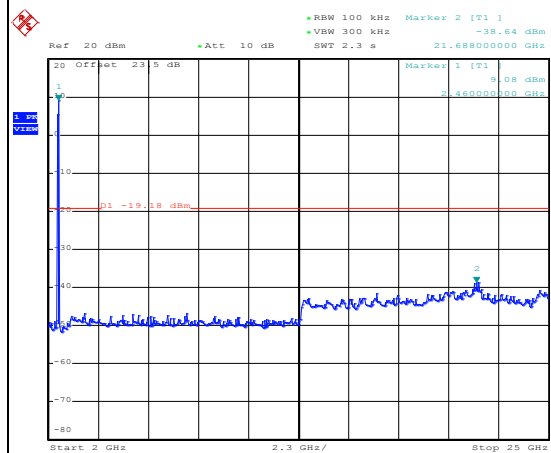
Date: 7.SEP.2020 11:25:02

Spurious Emission 30MHz~3GHz



Date: 7.SEP.2020 11:26:07

Spurious Emission 2GHz~25GHz

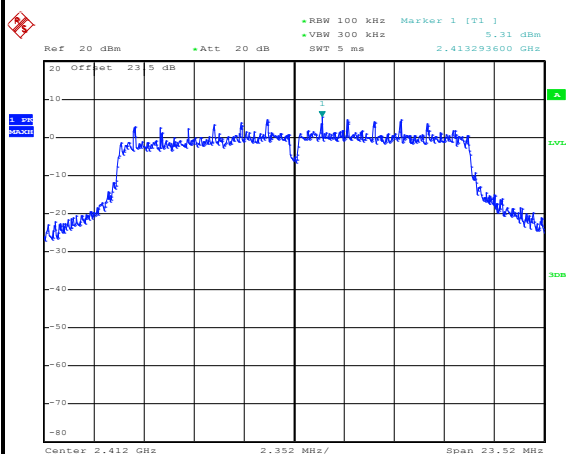


Date: 7.SEP.2020 11:26:22



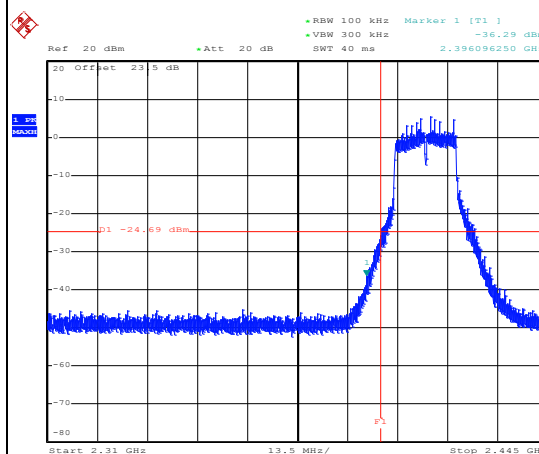
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



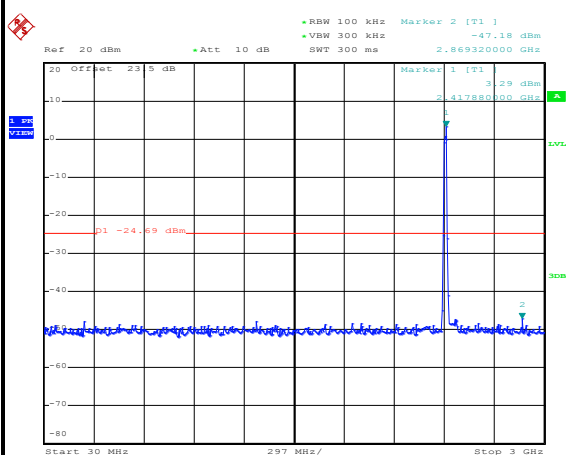
Date: 11.SEP.2020 14:35:13

Low Channel Plot



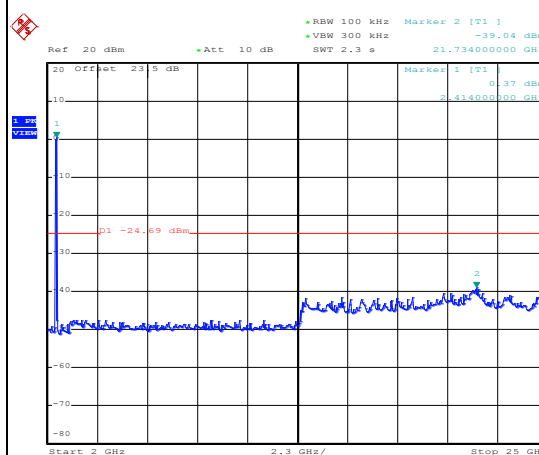
Date: 11.SEP.2020 14:35:51

Spurious Emission 30MHz~3GHz



Date: 11.SEP.2020 14:36:14

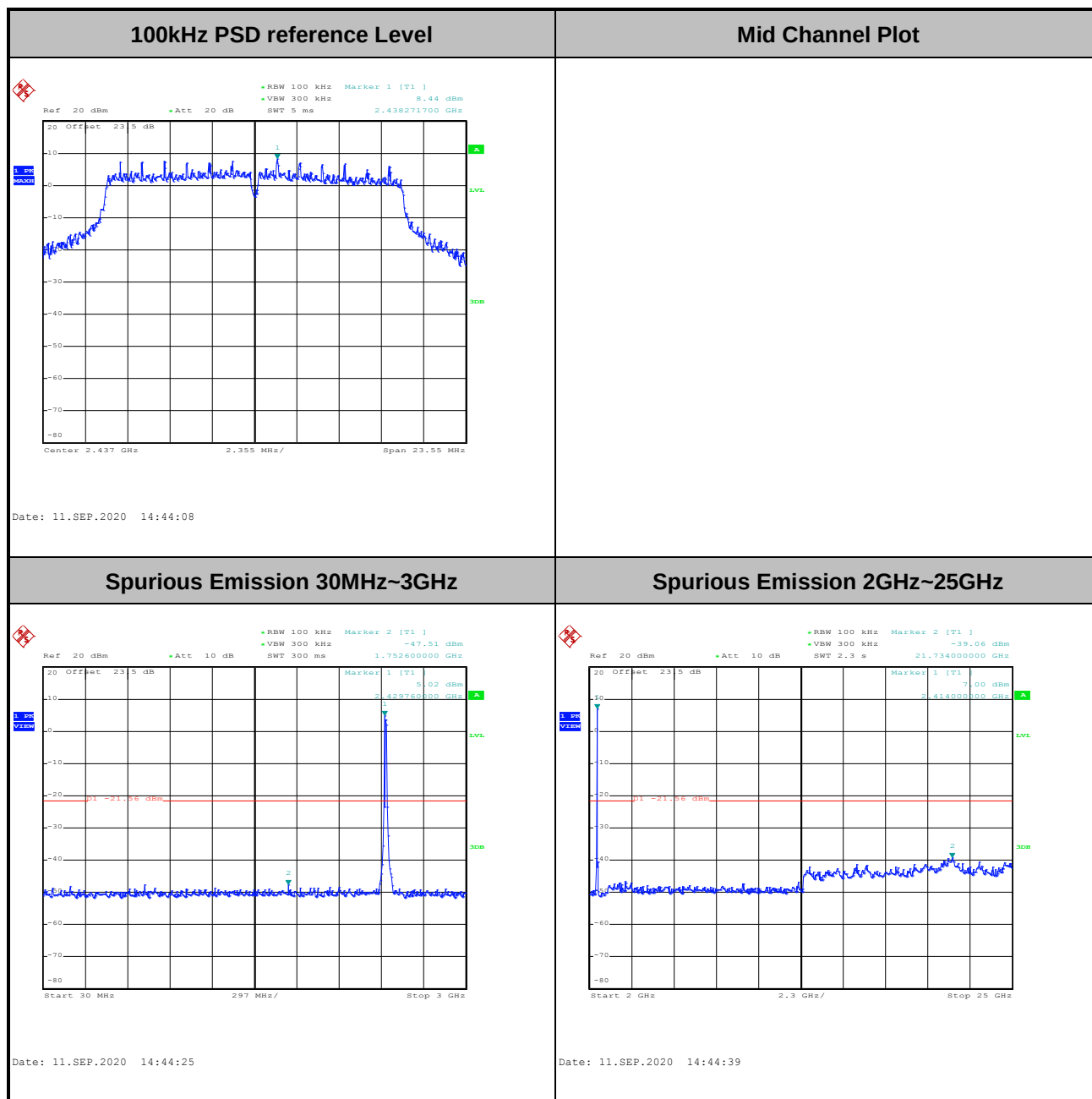
Spurious Emission 2GHz~25GHz



Date: 11.SEP.2020 14:36:32



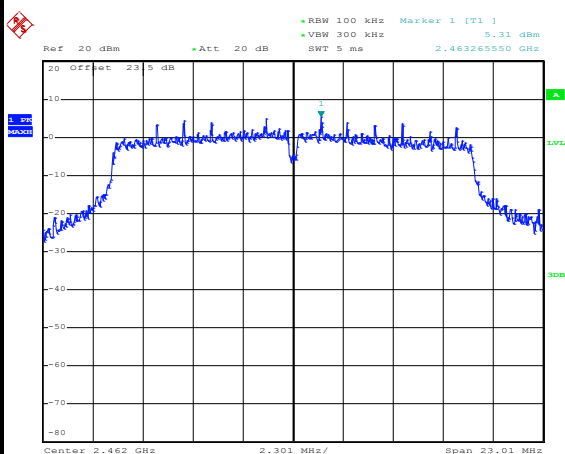
Test Mode :	802.11g	Test Channel :	06
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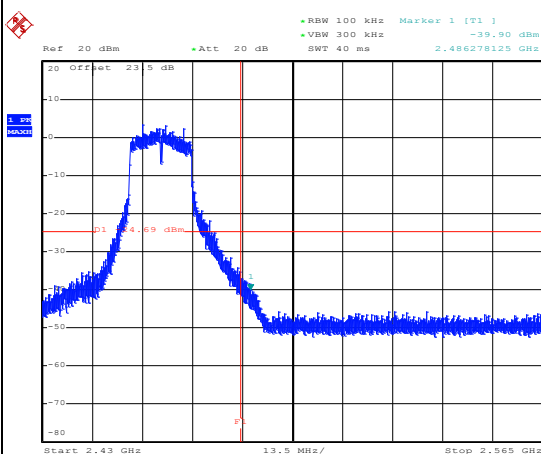
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



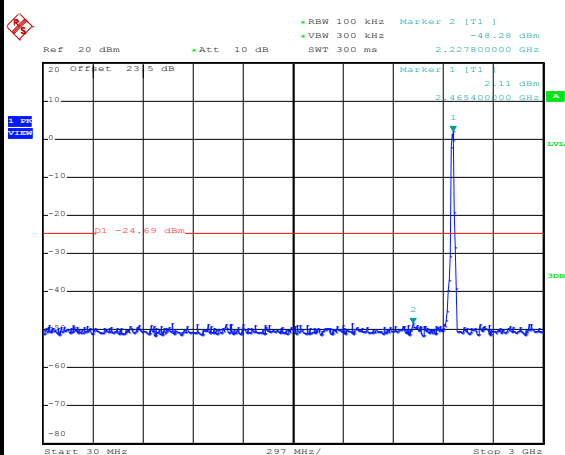
Date: 11.SEP.2020 14:53:19

High Channel Plot



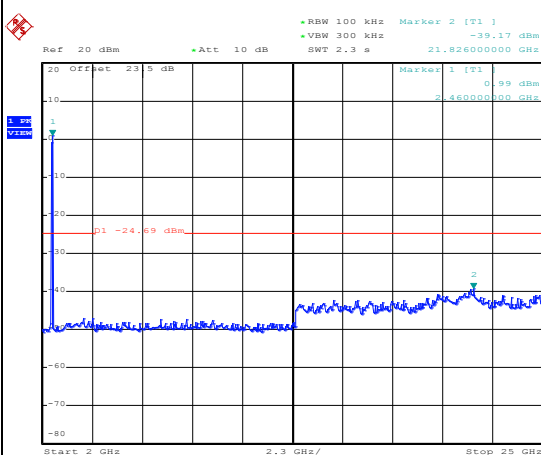
Date: 11.SEP.2020 14:53:54

Spurious Emission 30MHz~3GHz



Date: 11.SEP.2020 14:54:23

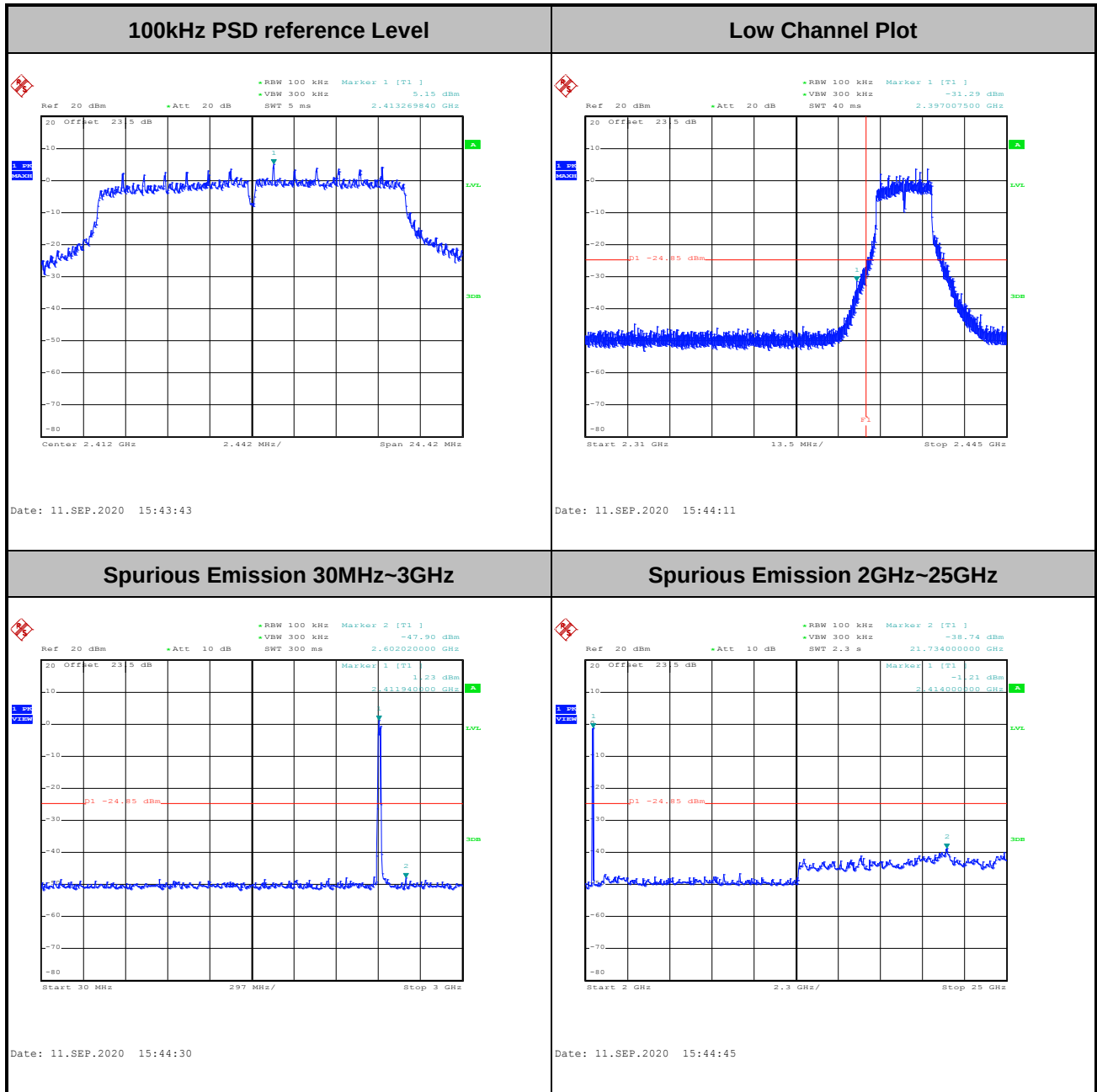
Spurious Emission 2GHz~25GHz



Date: 11.SEP.2020 14:54:38

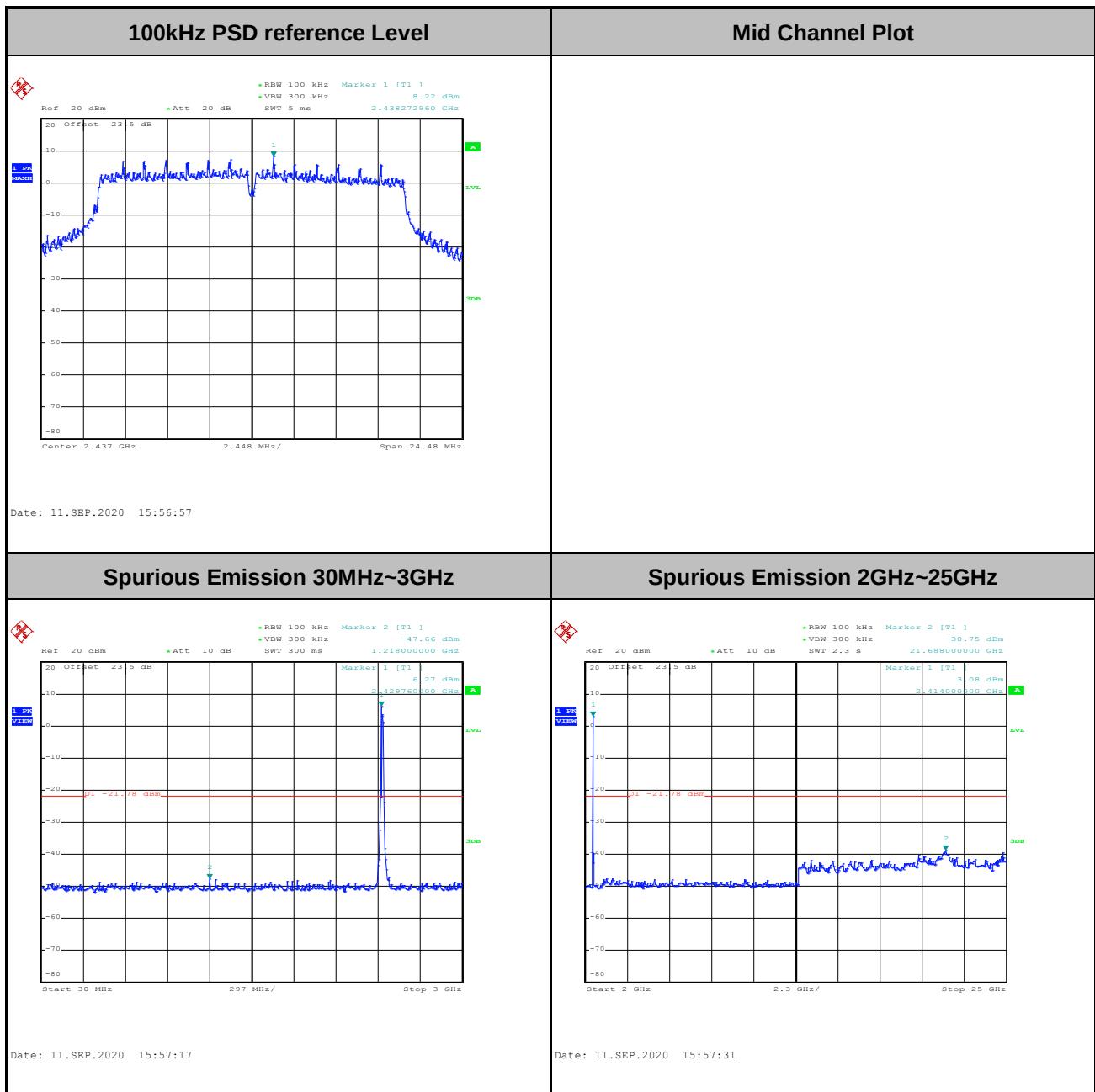


Test Mode :	802.11n HT20	Test Channel :	01
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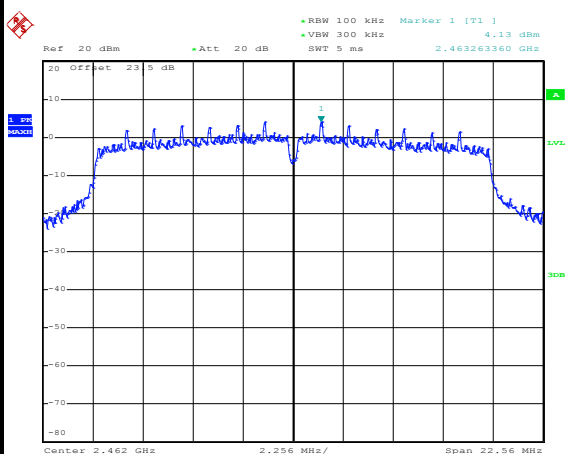
Test Mode :	802.11n HT20	Test Channel :	06
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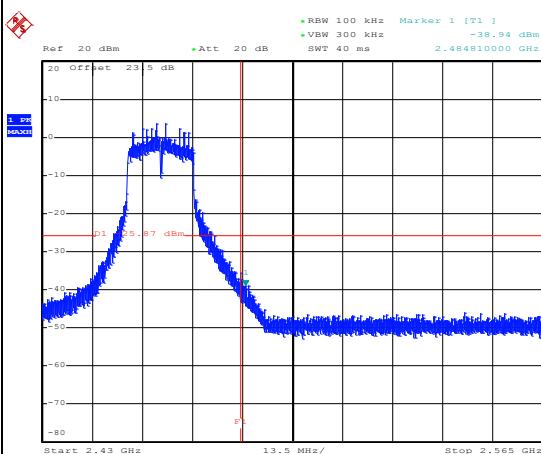
Test Mode :	802.11n HT20	Test Channel :	11
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100kHz PSD reference Level



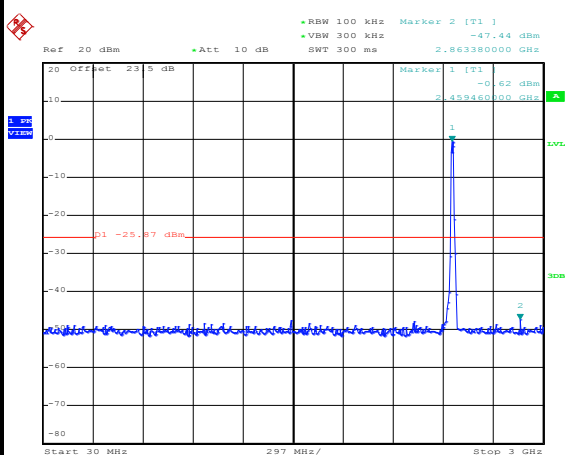
Date: 11.SEP.2020 16:11:06

High Channel Plot



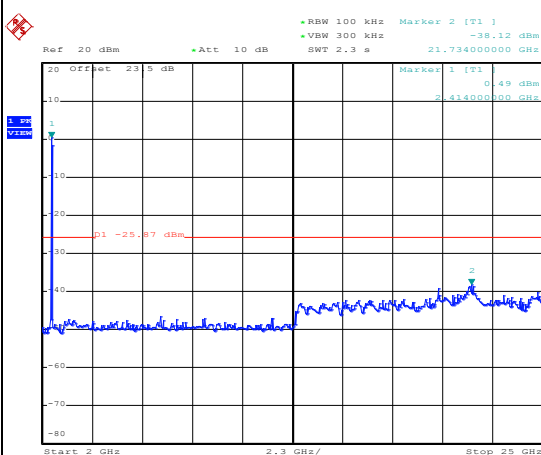
Date: 11.SEP.2020 16:11:38

Spurious Emission 30MHz~3GHz



Date: 11.SEP.2020 16:12:01

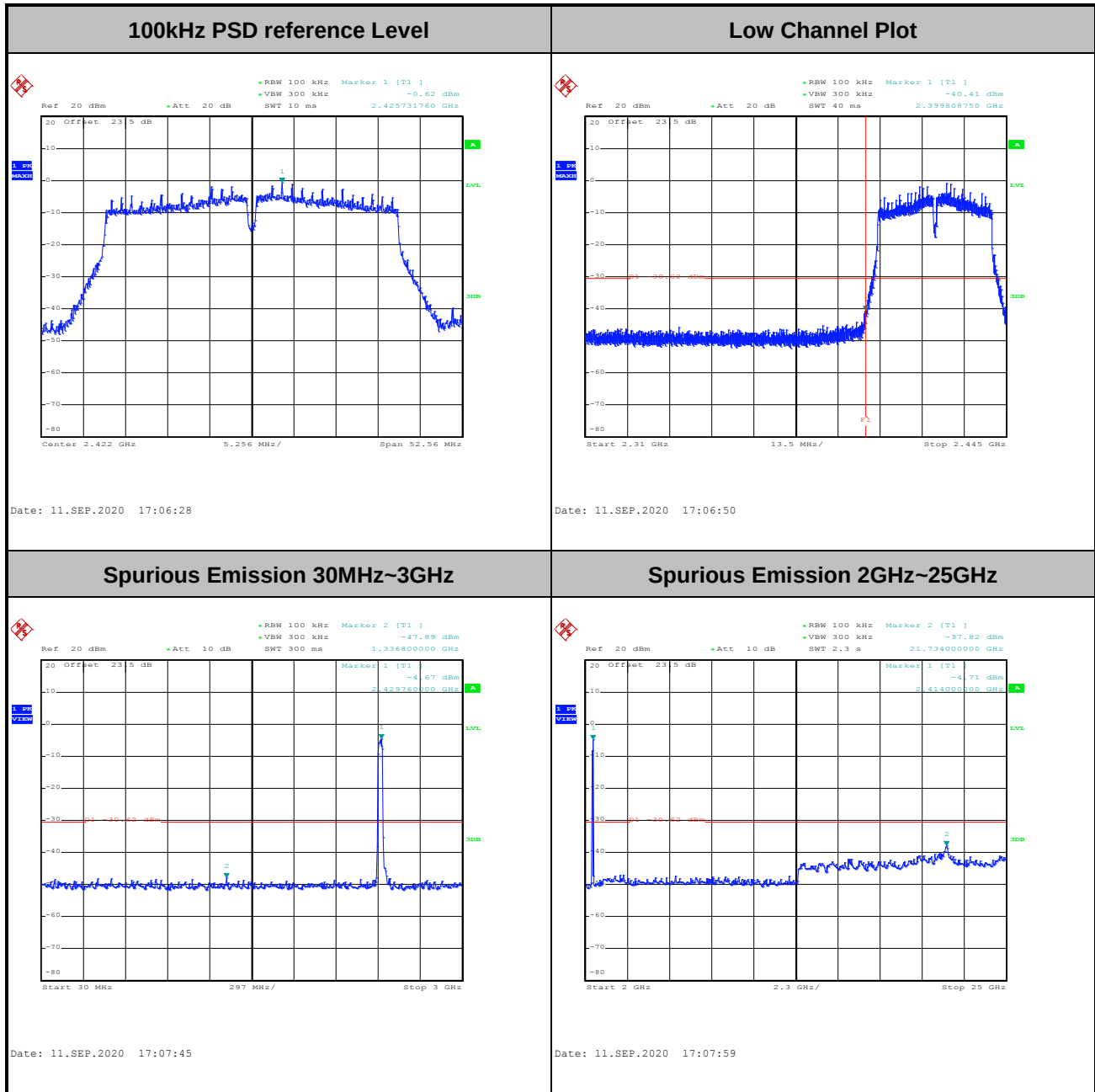
Spurious Emission 2GHz~25GHz



Date: 11.SEP.2020 16:13:33

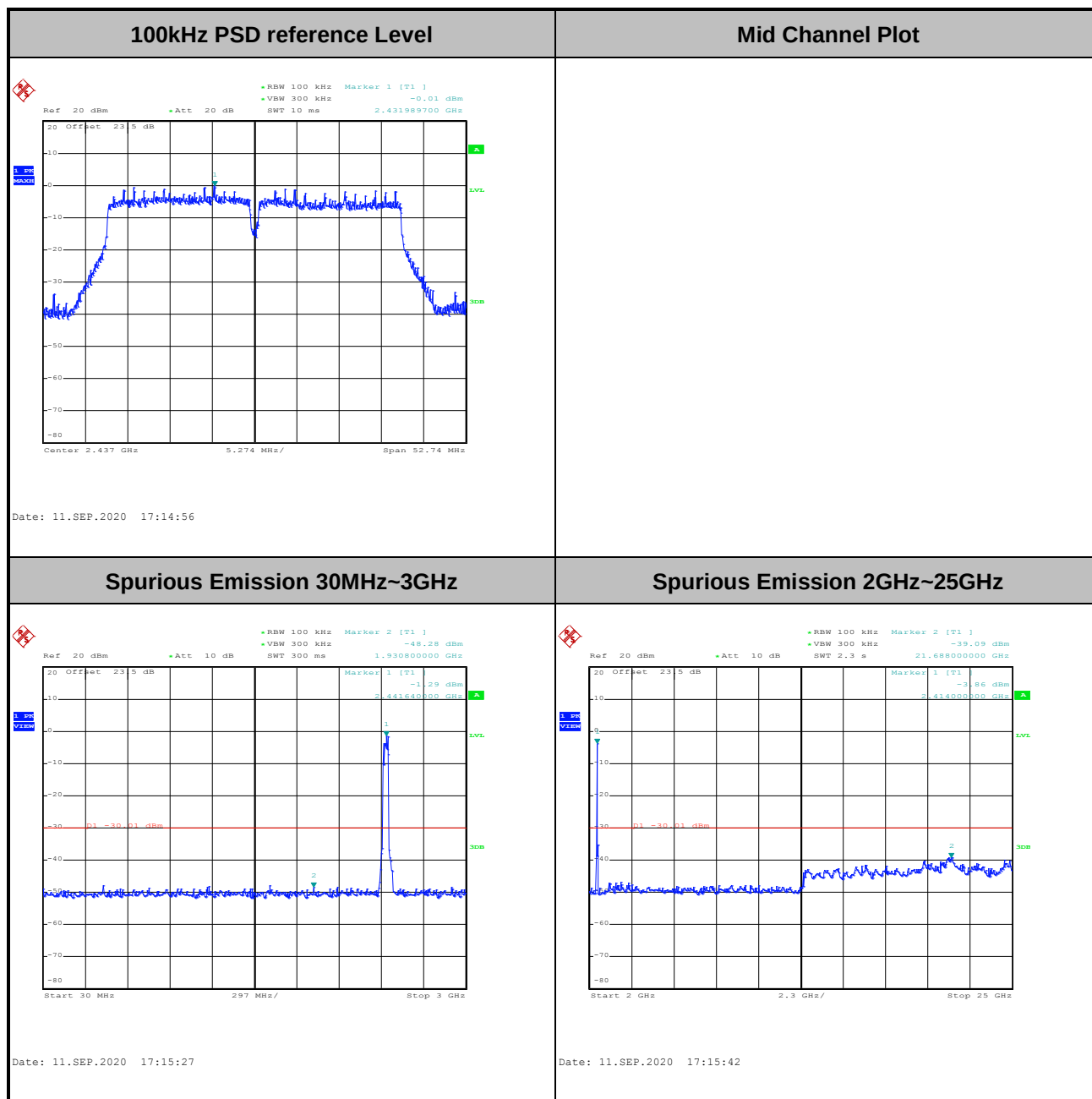


Test Mode :	802.11n HT40	Test Channel :	03
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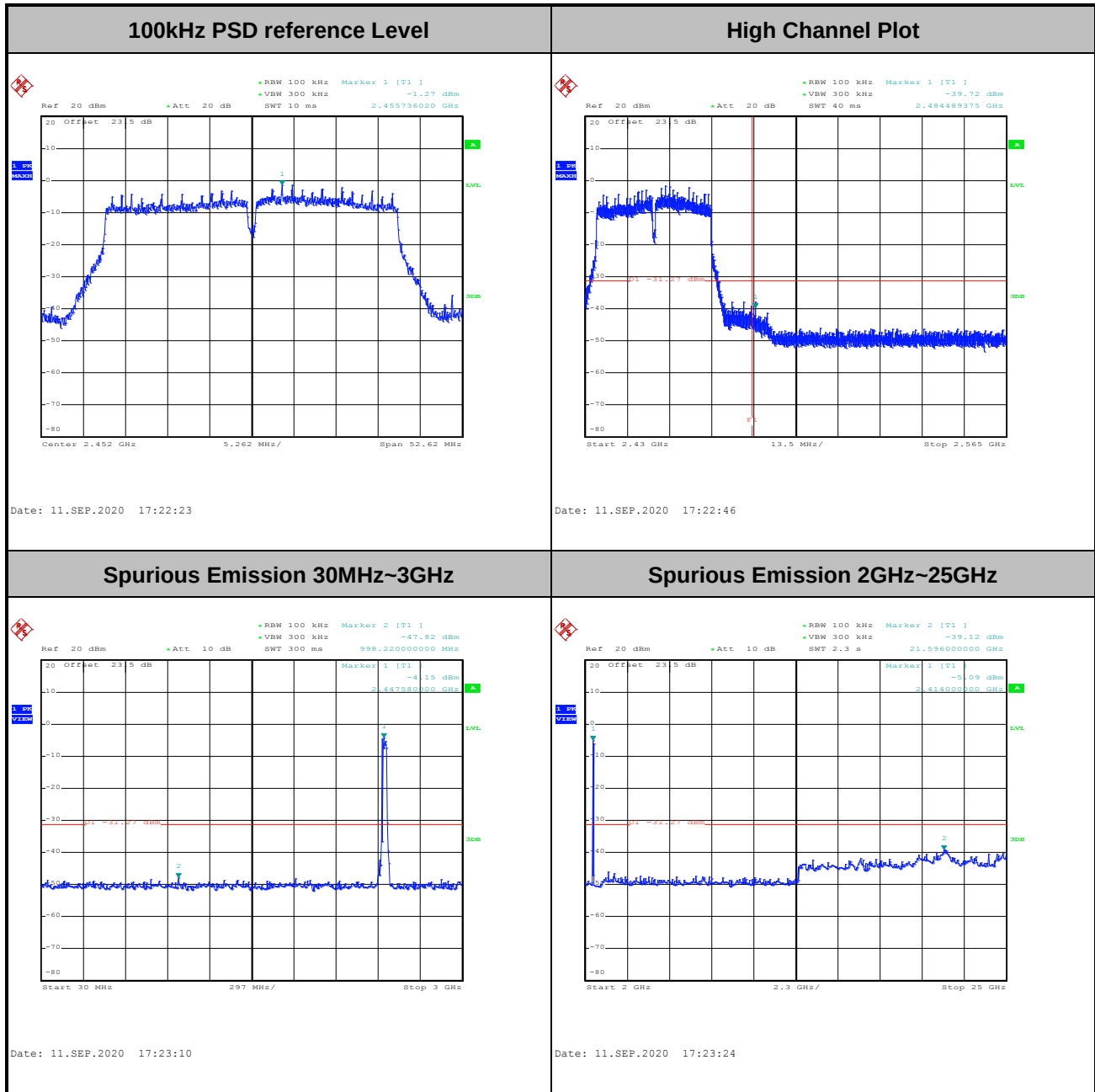


Test Mode :	802.11n HT40	Test Channel :	06
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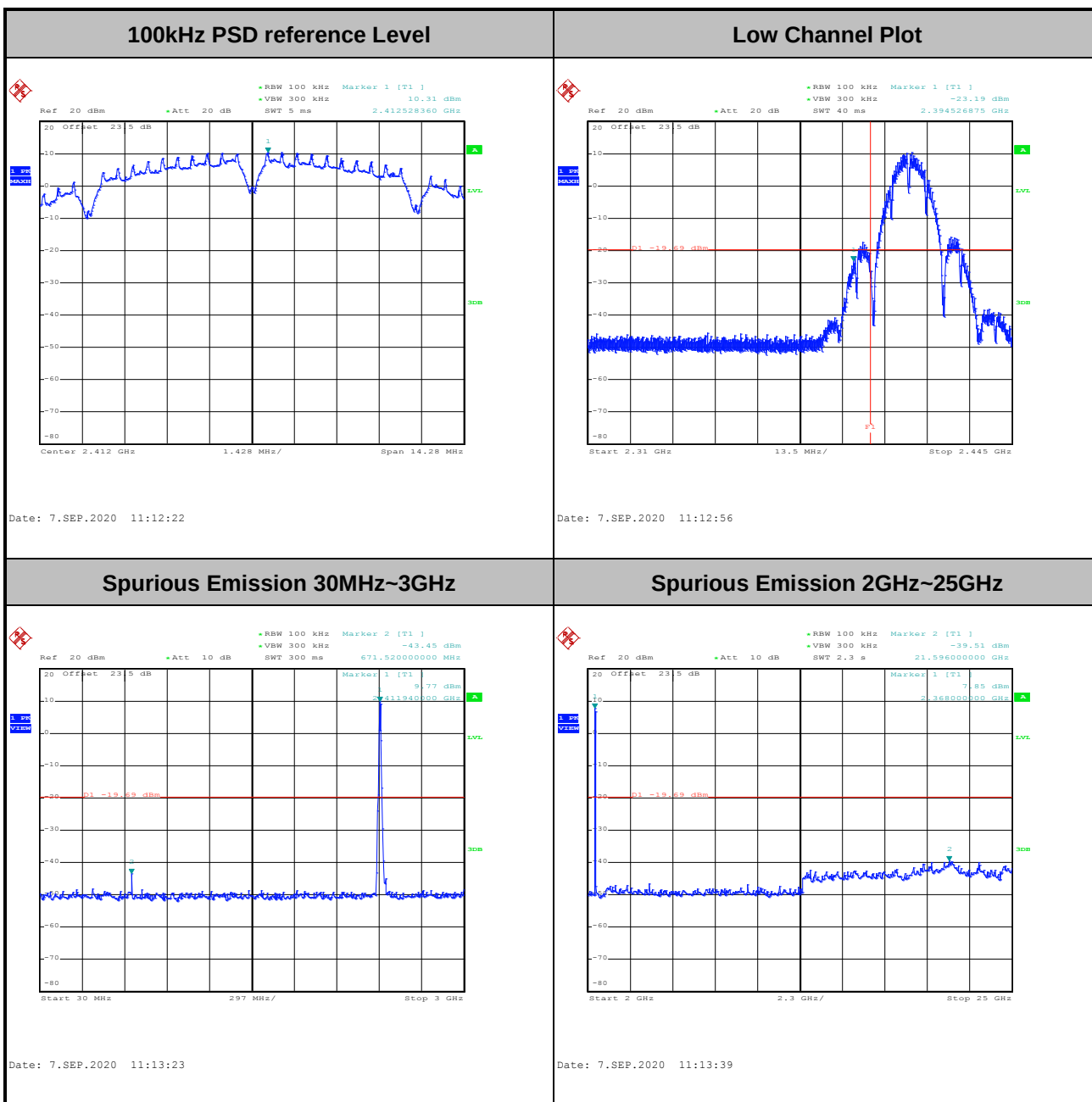
Test Mode :	802.11n HT40	Test Channel :	09
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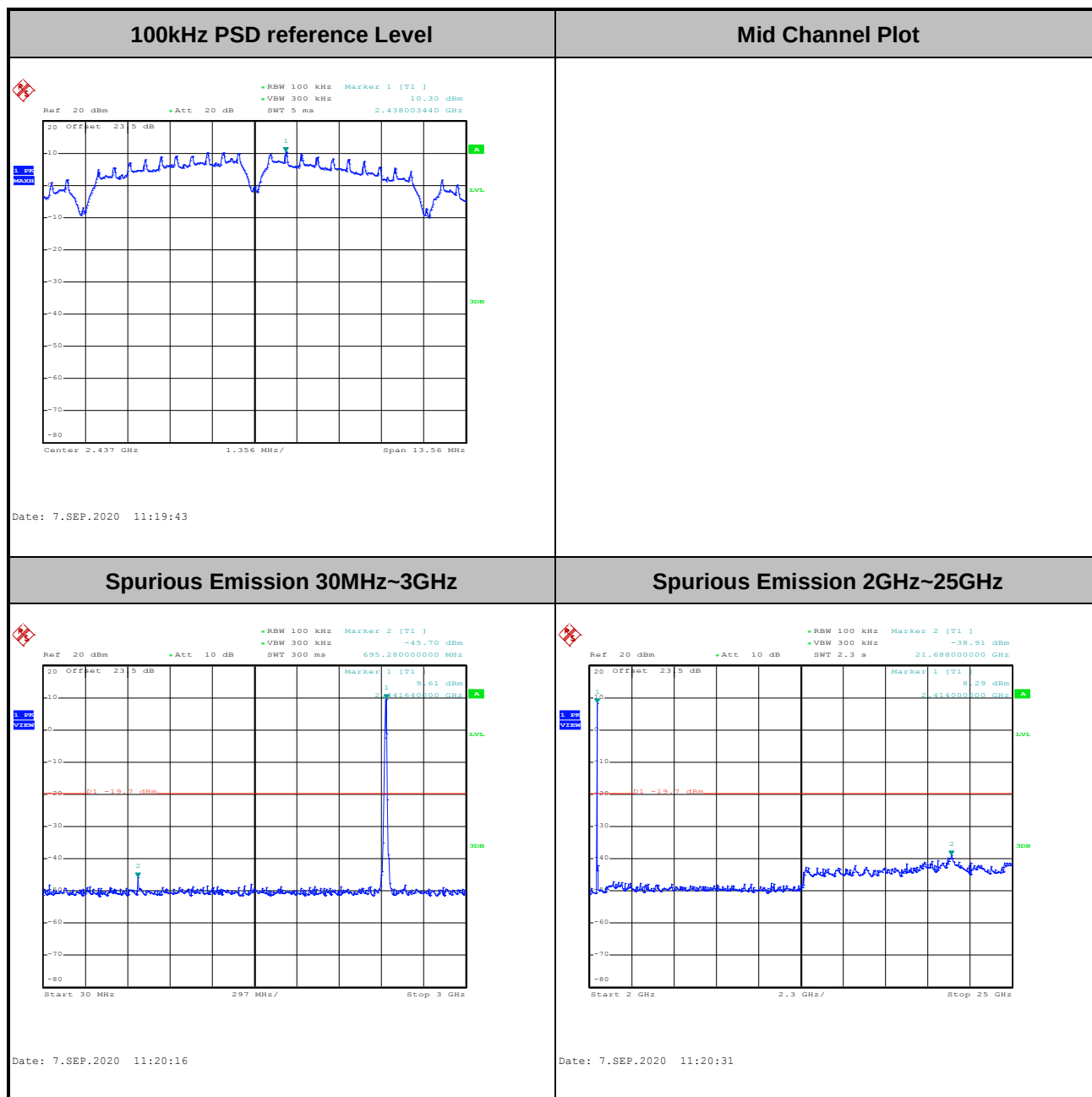
Number of TX = 2, Ant. 2 (Measured)

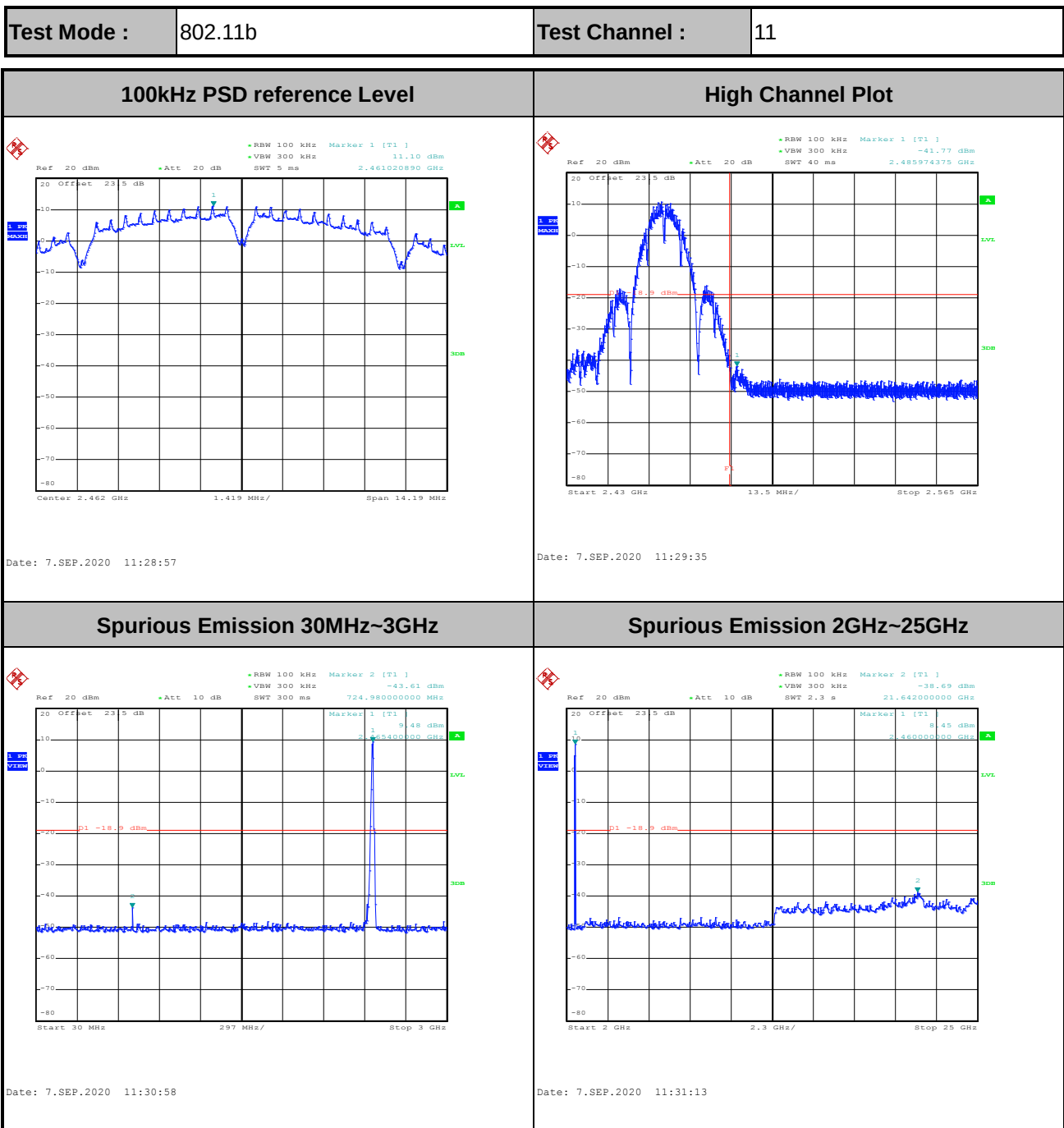
Test Mode :	802.11b	Test Channel :	01
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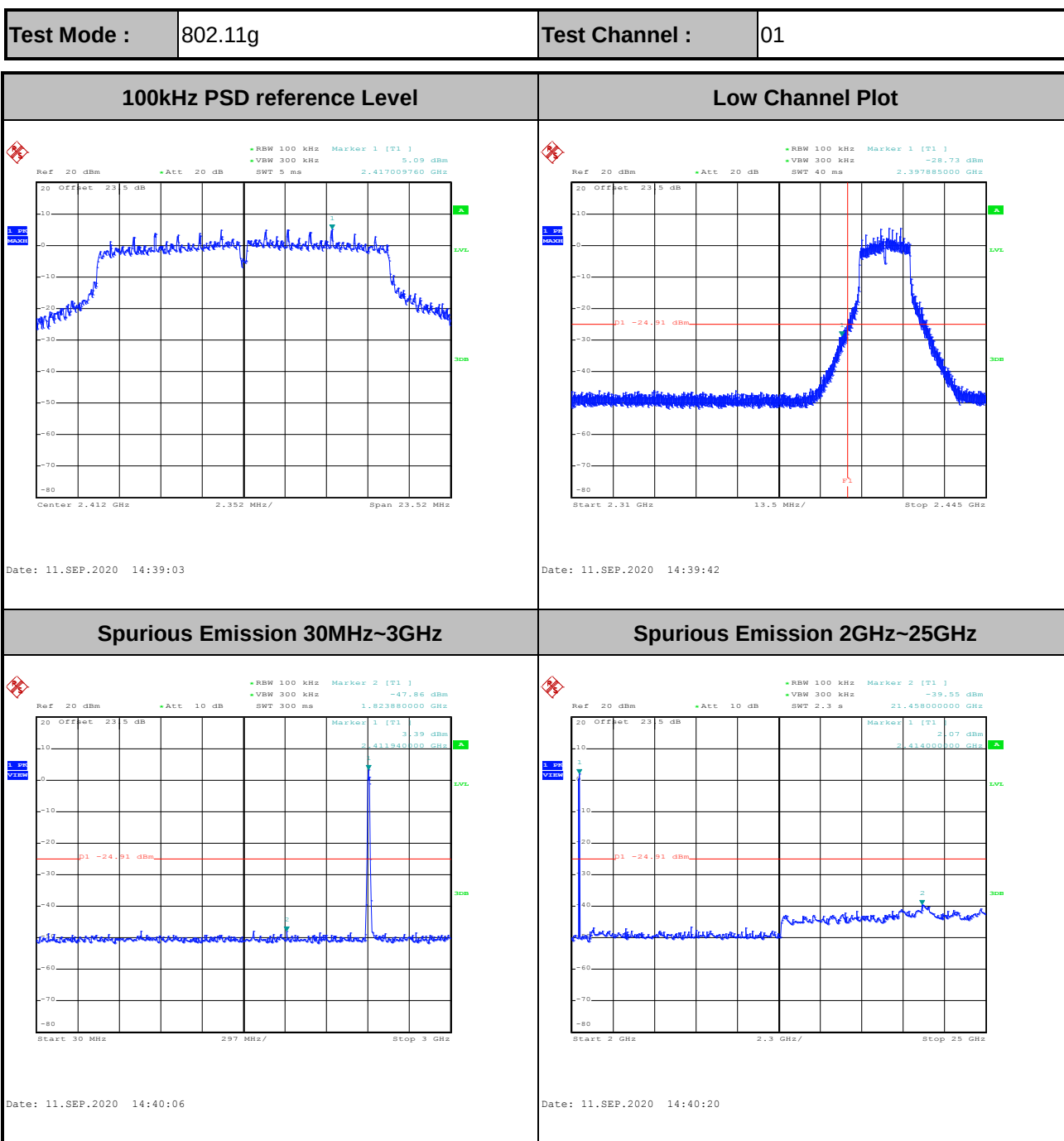




Test Mode :	802.11b	Test Channel :	06
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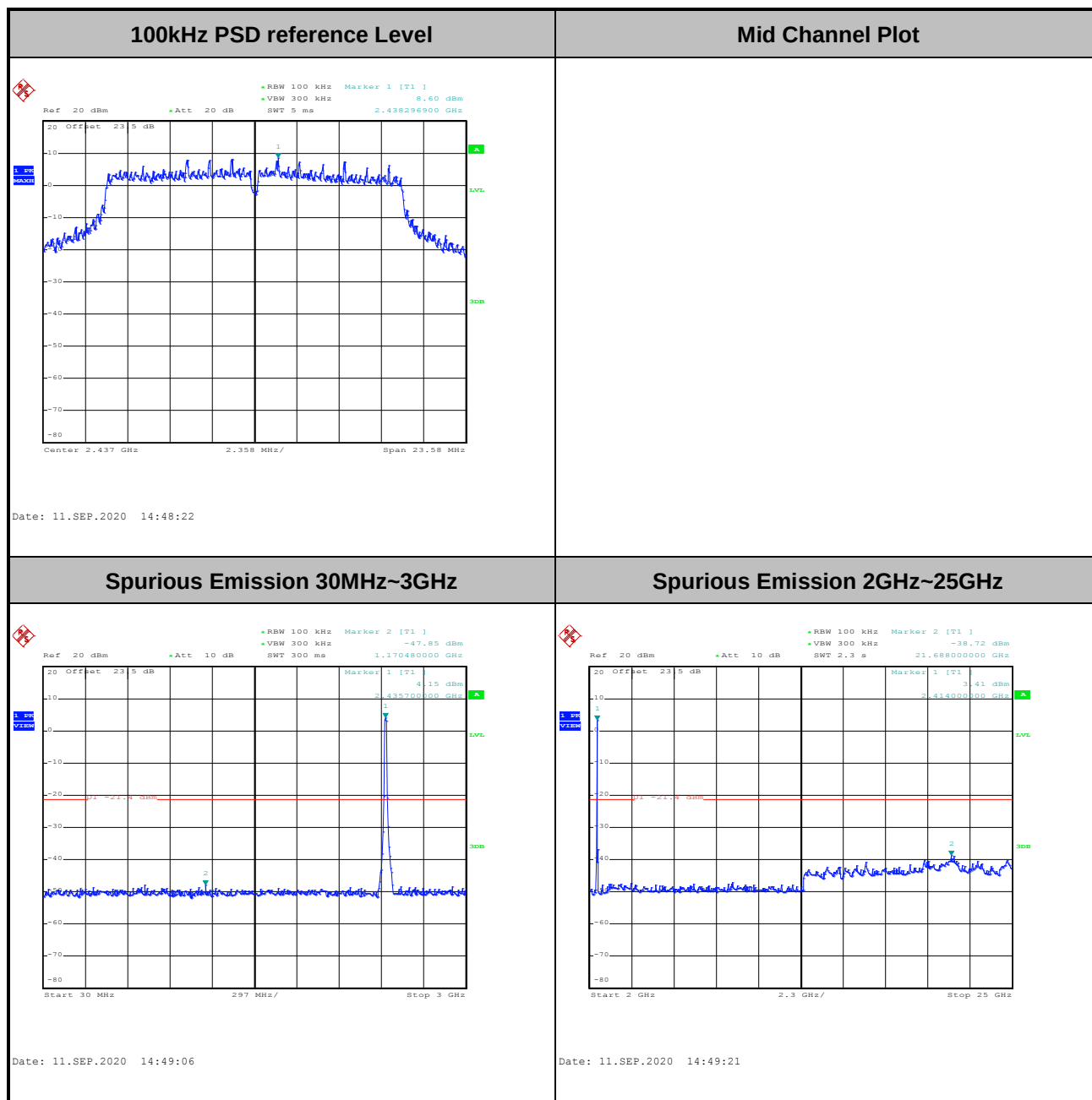






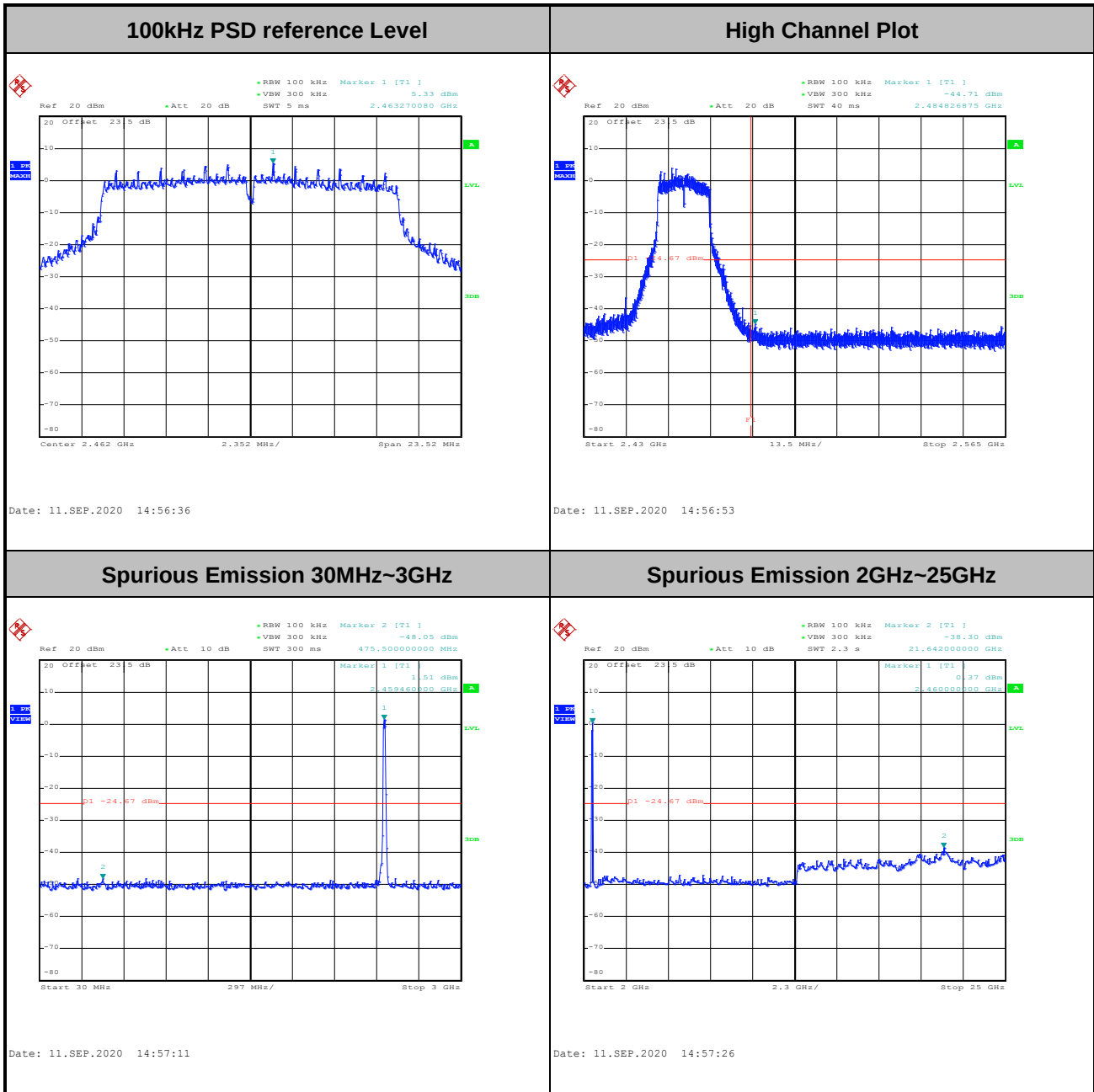


Test Mode :	802.11g	Test Channel :	06
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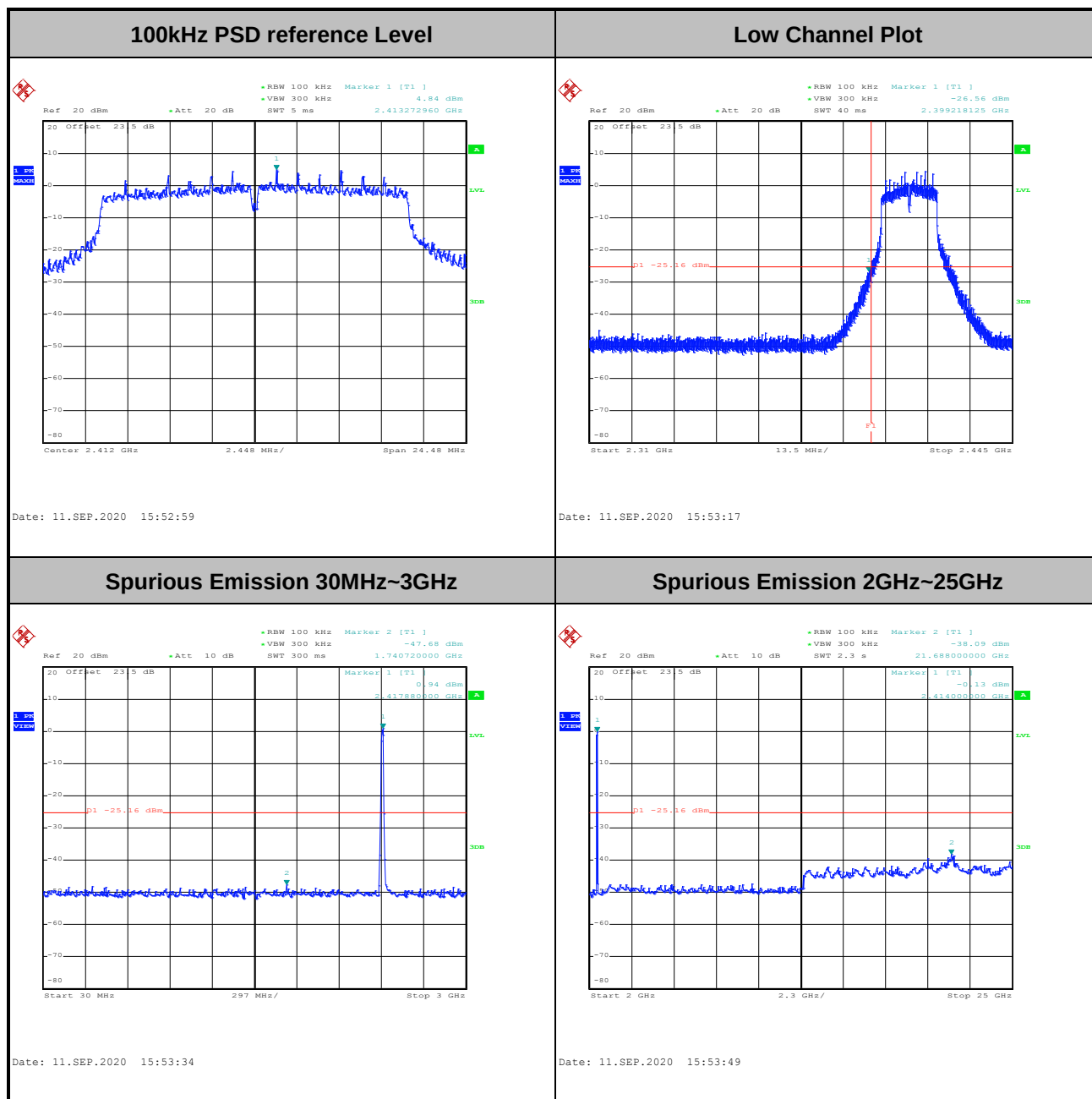


Test Mode :	802.11g	Test Channel :	11
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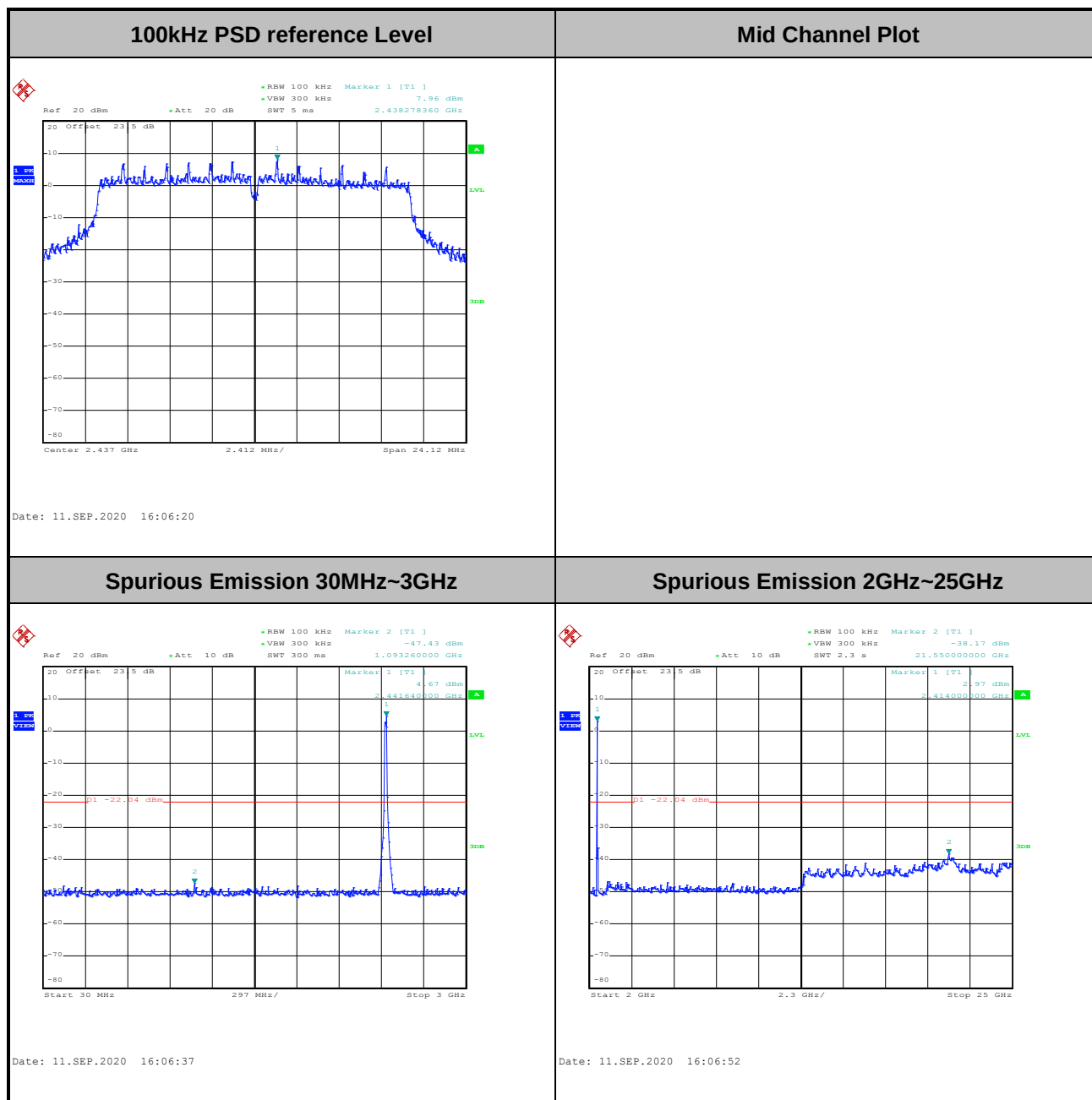


Test Mode :	802.11n HT20	Test Channel :	01
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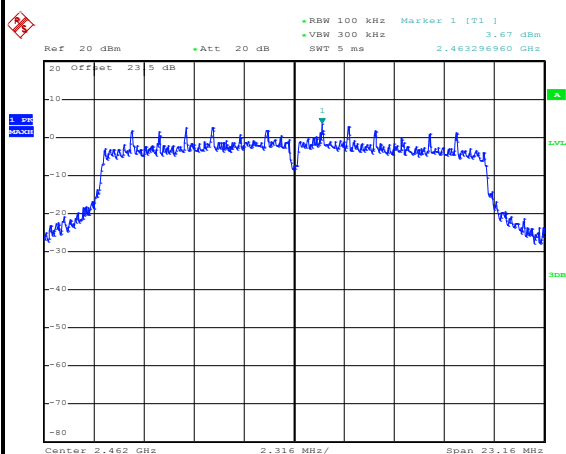
Test Mode :	802.11n HT20	Test Channel :	06
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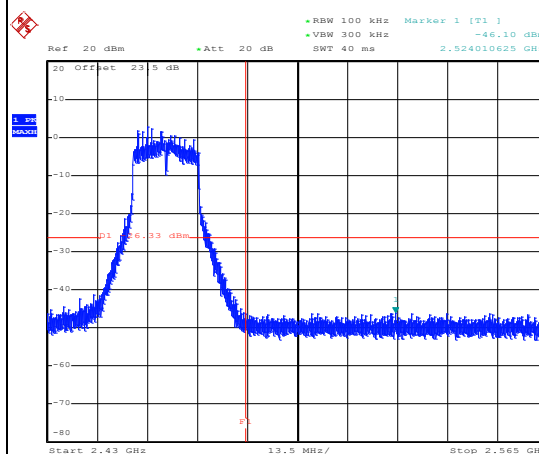
Test Mode :	802.11n HT20	Test Channel :	11
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100kHz PSD reference Level



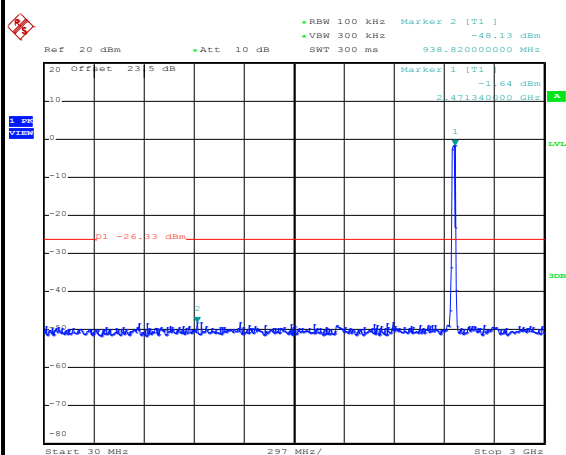
Date: 11.SEP.2020 16:16:34

High Channel Plot



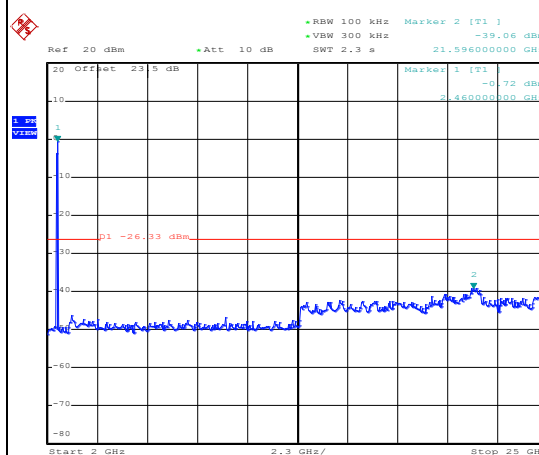
Date: 11.SEP.2020 16:16:49

Spurious Emission 30MHz~3GHz



Date: 11.SEP.2020 16:17:06

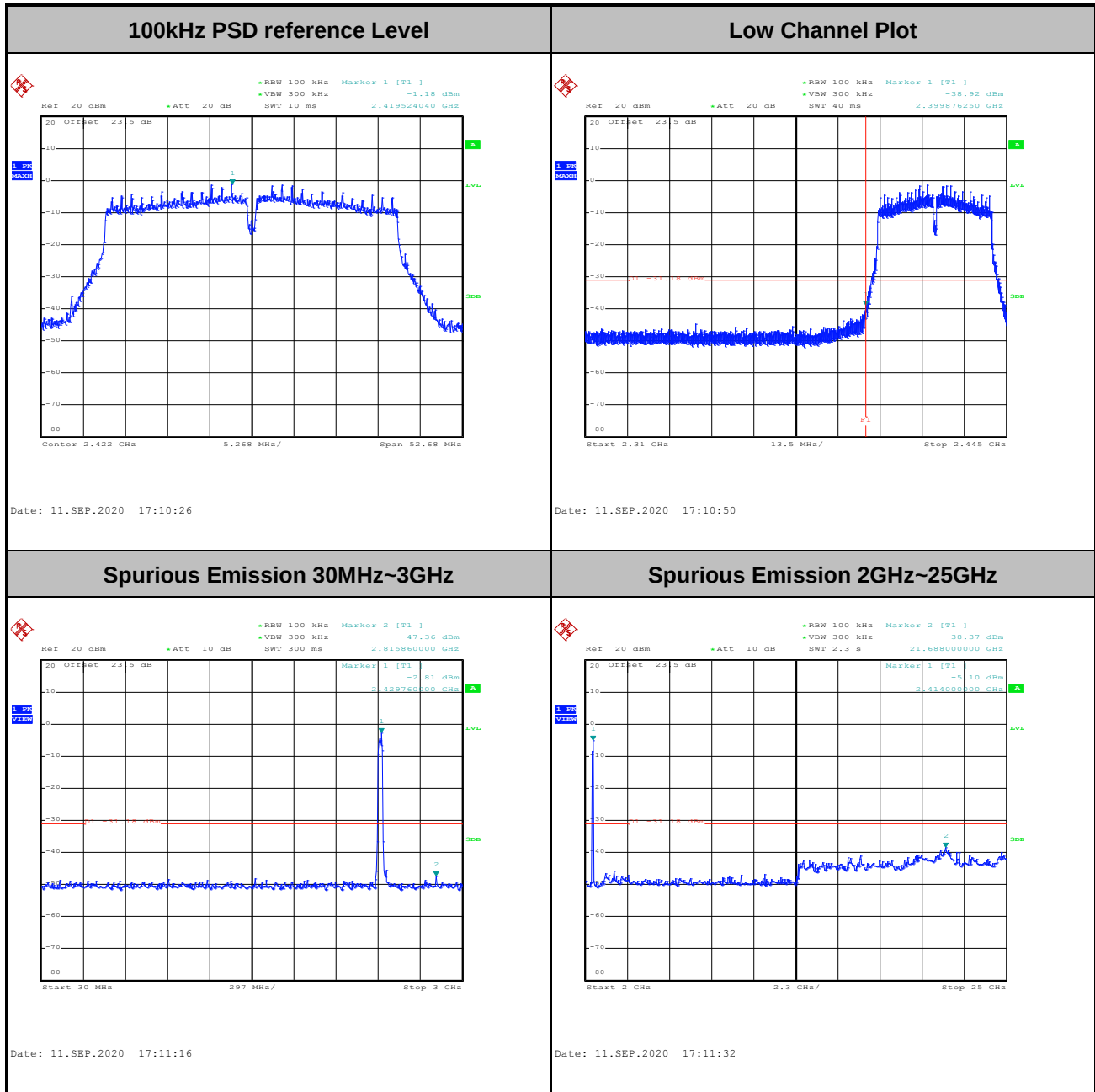
Spurious Emission 2GHz~25GHz



Date: 11.SEP.2020 16:17:21

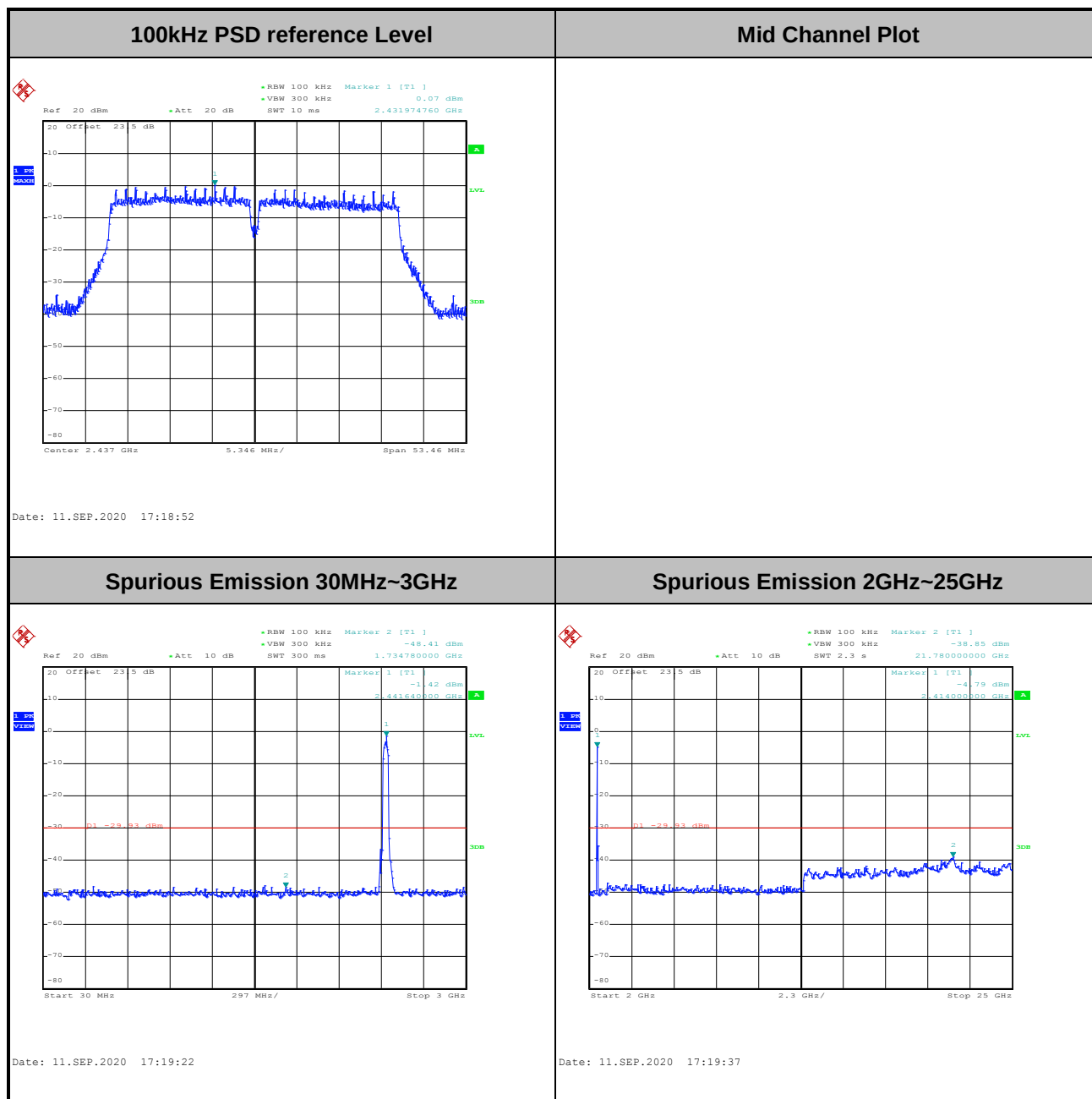


Test Mode :	802.11n HT40	Test Channel :	03
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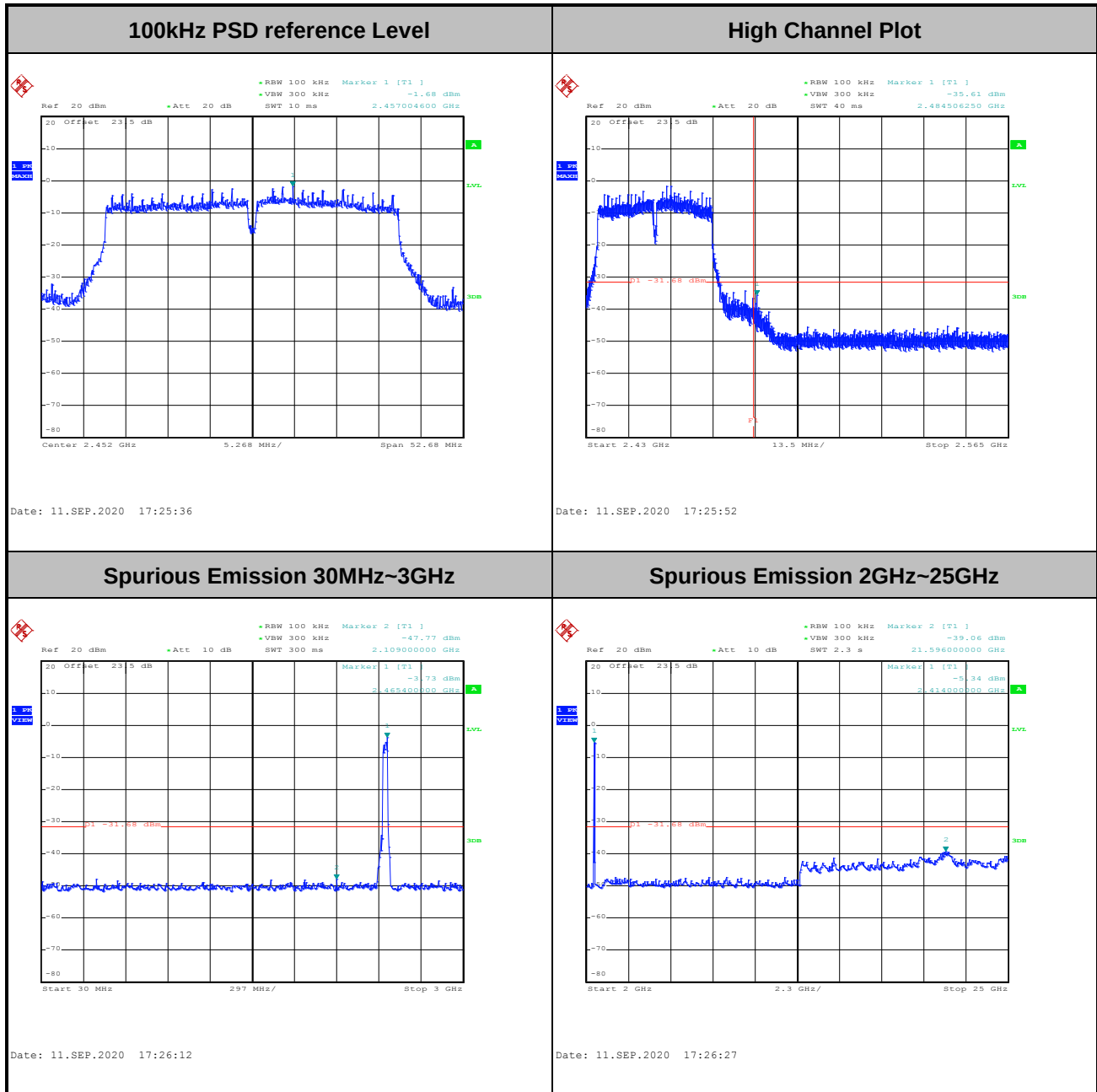


Test Mode :	802.11n HT40	Test Channel :	06
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Test Mode :	802.11n HT40	Test Channel :	09
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3.5 Radiated Band Edges and Spurious Emission Measurement

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

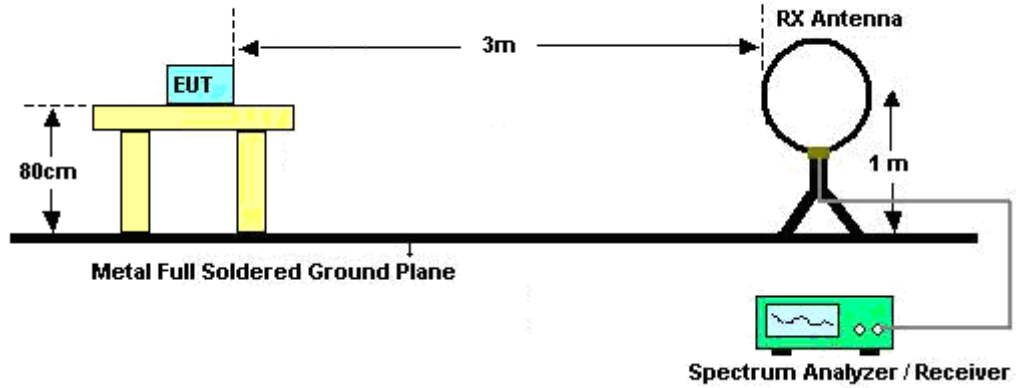
See list of measuring equipment of this test report.

3.5.3 Test Procedures

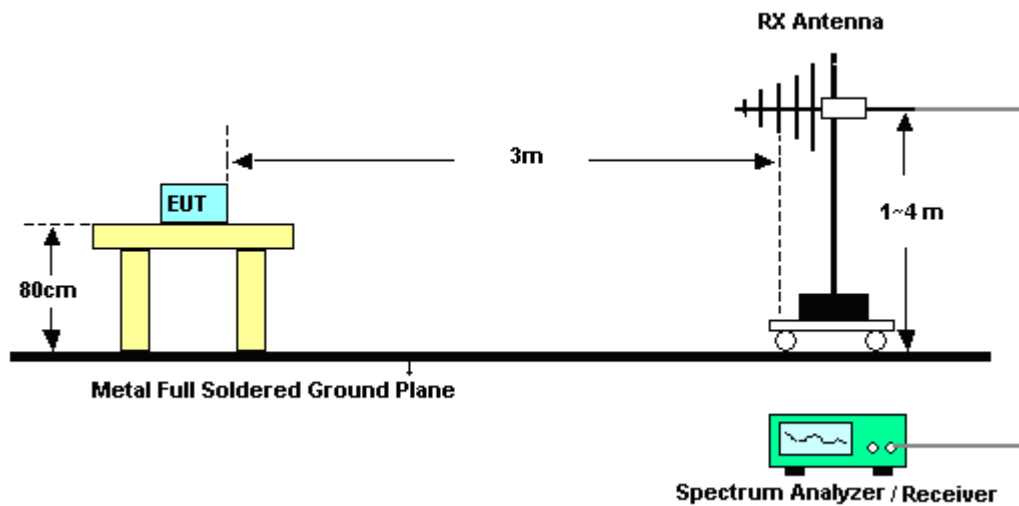
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 average 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

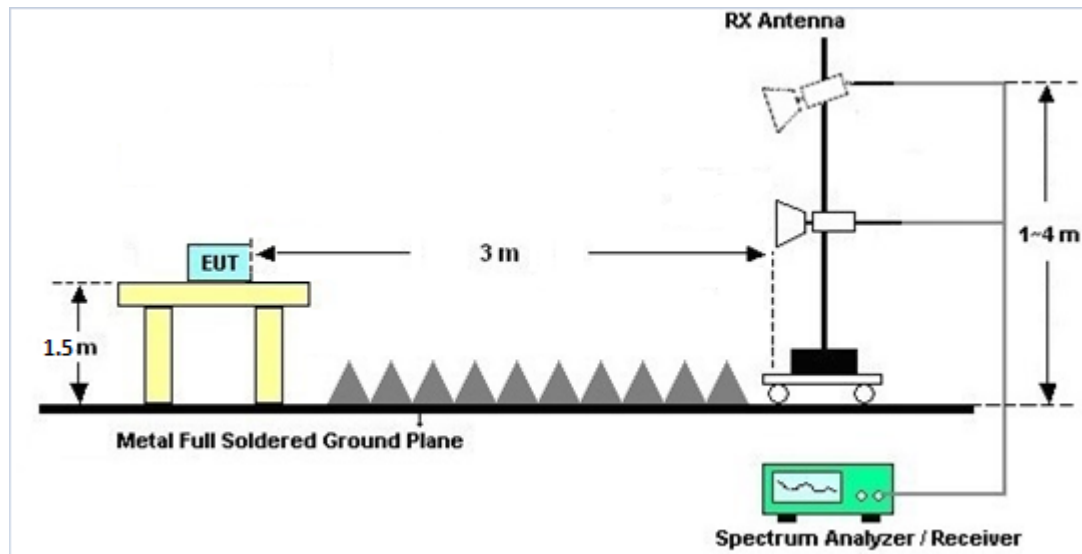
For radiated emissions below 30MHz



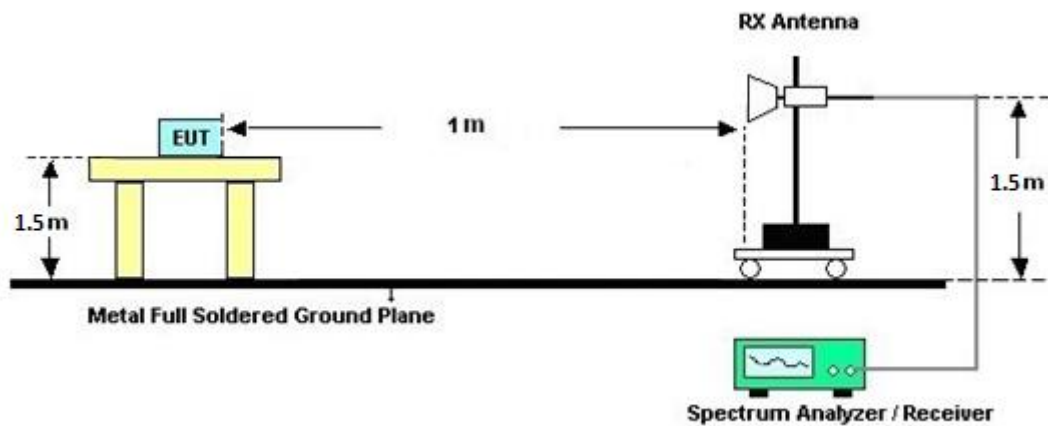
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz





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 alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

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.

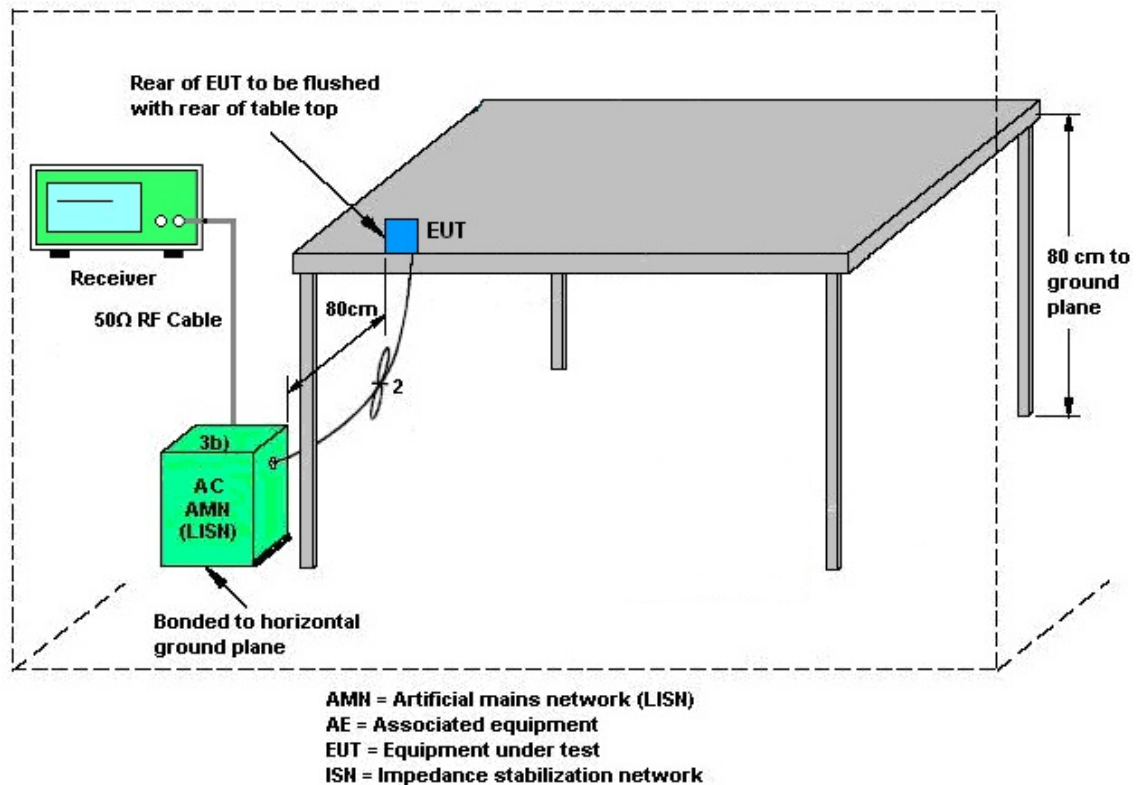
3.6.2 Measuring Instruments

See list of measuring equipment 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>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	2.40	3.70	3.70	6.08	0.00	0.08

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

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Aug. 17, 2020~ Sep. 17, 2020	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0802N1D01N- 06	47020&06	30MHz to 1GHz	Oct. 12, 2019	Aug. 17, 2020~ Sep. 17, 2020	Oct. 11, 2020	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 980	18GHz~40GHz	Jan. 10, 2020	Aug. 17, 2020~ Sep. 17, 2020	Jan. 09, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Oct. 01, 2019	Aug. 17, 2020~ Sep. 17, 2020	Sep. 30, 2020	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-152 2	1G~18GHz	Sep. 19, 2019	Aug. 17, 2020~ Sep. 17, 2020	Sep. 18, 2020	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0055006	1GHz~18GHz	May 07, 2020	Aug. 17, 2020~ Sep. 17, 2020	May 06, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~40GHz	Dec. 13, 2019	Aug. 17, 2020~ Sep. 17, 2020	Dec. 12, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532702 64	1GHz~26.5GHz	Dec. 11, 2019	Aug. 17, 2020~ Sep. 17, 2020	Dec.10, 2020	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY572901 11	3Hz~26.5GHz	Dec. 05, 2019	Aug. 17, 2020~ Sep. 17, 2020	Dec. 04, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/ 4PE	NA	Aug. 30, 2019	Aug. 17, 2020~ Aug. 28, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/ 4PE	NA	Aug. 29, 2020	Aug. 29, 2020~ Sep. 17, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/ 4PE	NA	Aug. 30, 2019	Aug. 17, 2020~ Aug. 28, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/ 4PE	NA	Aug. 29, 2020	Aug. 29, 2020~ Sep. 17, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300 -5757	NA	Aug. 30, 2019	Aug. 17, 2020~ Aug. 28, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300 -5757	NA	Aug. 29, 2020	Aug. 29, 2020~ Sep. 17, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP162965	N/A	Oct. 25, 2019	Aug. 17, 2020~ Sep. 17, 2020	Oct. 24, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Aug. 15, 2020~ Sep. 11, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Aug. 15, 2020~ Sep. 11, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Aug. 15, 2020~ Sep. 11, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Aug. 15, 2020~ Sep. 11, 2020	Mar. 16, 2021	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 25, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Aug. 25, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Aug. 25, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Aug. 25, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Aug. 25, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 25, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Aug. 25, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Aug. 25, 2020	Jan. 01, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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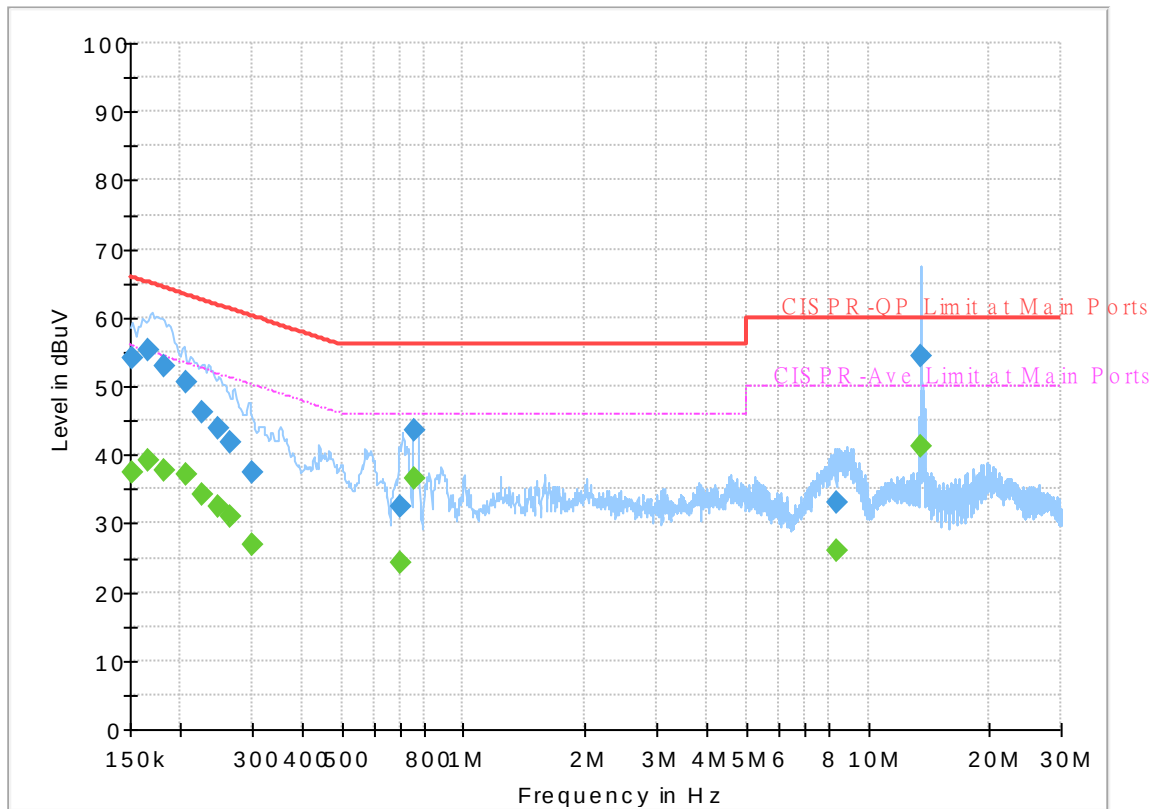
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	24~26℃
		Relative Humidity :	42~50%

EUT Information

Report NO : 072944
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

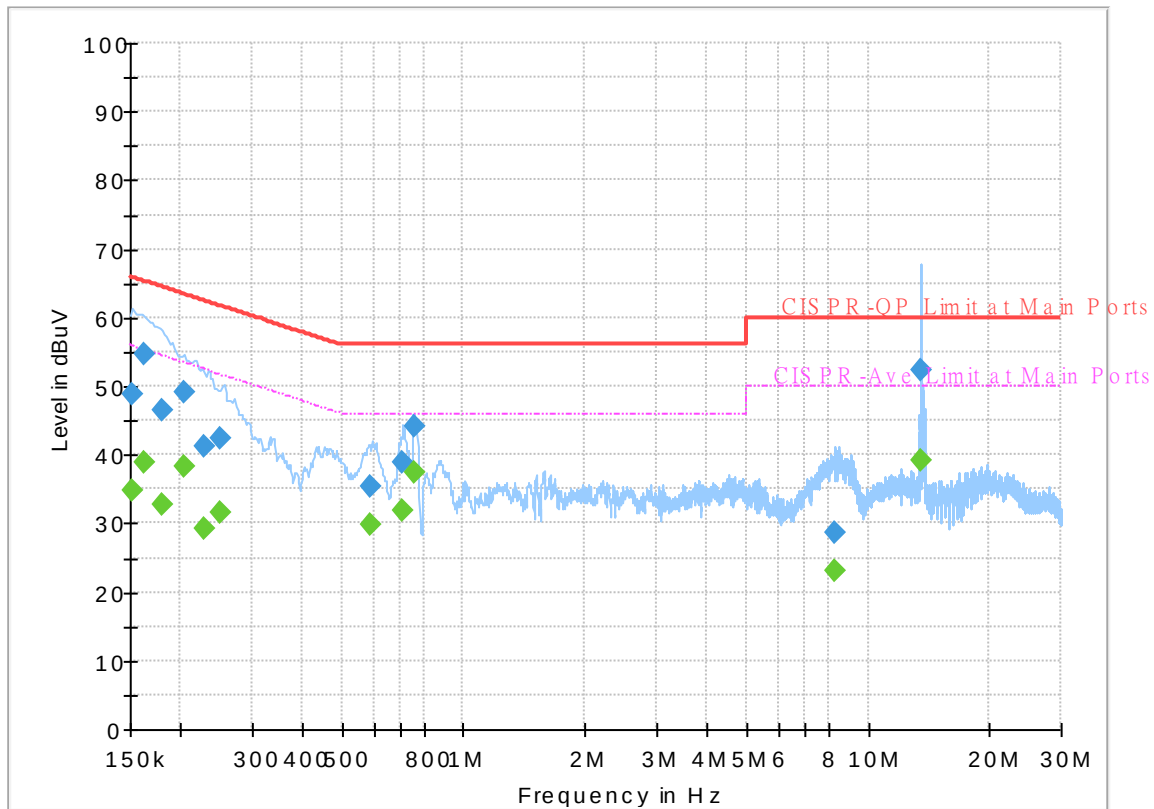
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	37.33	55.88	18.55	L1	OFF	19.5
0.152250	54.22	---	65.88	11.66	L1	OFF	19.5
0.165750	---	39.28	55.17	15.89	L1	OFF	19.5
0.165750	55.21	---	65.17	9.96	L1	OFF	19.5
0.181500	---	37.59	54.42	16.83	L1	OFF	19.5
0.181500	52.98	---	64.42	11.44	L1	OFF	19.5
0.206250	---	37.04	53.36	16.32	L1	OFF	19.5
0.206250	50.59	---	63.36	12.77	L1	OFF	19.5
0.226500	---	34.07	52.58	18.51	L1	OFF	19.5
0.226500	46.21	---	62.58	16.37	L1	OFF	19.5
0.248714	---	32.57	51.80	19.23	L1	OFF	19.5
0.248714	43.83	---	61.80	17.97	L1	OFF	19.5
0.265020	---	30.99	51.27	20.28	L1	OFF	19.5
0.265020	41.73	---	61.27	19.54	L1	OFF	19.5
0.299670	---	27.01	50.25	23.24	L1	OFF	19.5
0.299670	37.38	---	60.25	22.87	L1	OFF	19.5
0.701250	---	24.21	46.00	21.79	L1	OFF	19.5
0.701250	32.56	---	56.00	23.44	L1	OFF	19.5
0.755160	---	36.56	46.00	9.44	L1	OFF	19.5
0.755160	43.56	---	56.00	12.44	L1	OFF	19.5
8.338920	---	25.88	50.00	24.12	L1	OFF	19.8

8.338920	33.07	---	60.00	26.93	L1	OFF	19.8
13.560000	---	41.19	50.00	8.81	L1	OFF	19.8
13.560000	54.34	---	60.00	5.66	L1	OFF	19.8

EUT Information

Report NO : 072944
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	34.83	55.88	21.05	N	OFF	19.5
0.152250	48.90	---	65.88	16.98	N	OFF	19.5
0.161610	---	39.02	55.38	16.36	N	OFF	19.5
0.161610	54.65	---	65.38	10.73	N	OFF	19.5
0.179250	---	32.67	54.52	21.85	N	OFF	19.5
0.179250	46.62	---	64.52	17.90	N	OFF	19.5
0.204450	---	38.18	53.43	15.25	N	OFF	19.5
0.204450	49.09	---	63.43	14.34	N	OFF	19.5
0.229560	---	29.38	52.47	23.09	N	OFF	19.5
0.229560	41.08	---	62.47	21.39	N	OFF	19.5
0.251250	---	31.48	51.72	20.24	N	OFF	19.5
0.251250	42.52	---	61.72	19.20	N	OFF	19.5
0.589740	---	29.76	46.00	16.24	N	OFF	19.5
0.589740	35.30	---	56.00	20.70	N	OFF	19.5
0.707280	---	32.01	46.00	13.99	N	OFF	19.5
0.707280	38.99	---	56.00	17.01	N	OFF	19.5
0.755250	---	37.36	46.00	8.64	N	OFF	19.6
0.755250	44.05	---	56.00	11.95	N	OFF	19.6
8.296440	---	23.14	50.00	26.86	N	OFF	19.8
8.296440	28.65	---	60.00	31.35	N	OFF	19.8
13.560000	---	39.30	50.00	10.70	N	OFF	19.9

13.560000	52.31	---	60.00	7.69	N	OFF	19.9
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Appendix B. Radiated Spurious Emission

Test Engineer :	Andy Yang, Karl Hou and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~65%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.91	58.68	-15.32	74	42.72	27.65	18.09	29.78	254	192	P	H
		2388.855	50.69	-3.31	54	34.74	27.64	18.09	29.78	254	192	A	H
	*	2412	111.8	-	-	95.86	27.6	18.13	29.79	254	192	P	H
	*	2412	108.83	-	-	92.89	27.6	18.13	29.79	254	192	A	H
													H
													H
		2389.065	57.8	-16.2	74	41.85	27.64	18.09	29.78	398	86	P	V
		2388.96	46.33	-7.67	54	30.38	27.64	18.09	29.78	398	86	A	V
	*	2412	103.83	-	-	87.89	27.6	18.13	29.79	398	86	P	V
	*	2412	100.88	-	-	84.94	27.6	18.13	29.79	398	86	A	V
													V
													V
802.11b CH 06 2437MHz		2331.7	57.51	-16.49	74	41.03	27.87	18.37	29.76	246	192	P	H
		2389.8	45.31	-8.69	54	28.97	27.64	18.48	29.78	246	192	A	H
	*	2437	114.81	-	-	98.44	27.6	18.57	29.8	246	192	P	H
	*	2437	111.74	-	-	95.37	27.6	18.57	29.8	246	192	A	H
		2484.39	57.94	-16.06	74	41.57	27.53	18.66	29.82	246	192	P	H
		2485.09	45.88	-8.12	54	29.5	27.53	18.67	29.82	246	192	A	H
		2369.08	58.09	-15.91	74	41.71	27.72	18.44	29.78	337	96	P	V
		2389.94	44.74	-9.26	54	28.4	27.64	18.48	29.78	337	96	A	V
	*	2437	107.02	-	-	90.65	27.6	18.57	29.8	337	96	P	V
	*	2437	104.03	-	-	87.66	27.6	18.57	29.8	337	96	A	V
		2492.16	57.46	-16.54	74	41.09	27.52	18.68	29.83	337	96	P	V
		2484.25	45.06	-8.94	54	28.69	27.53	18.66	29.82	337	96	A	V



802.11b CH 11 2462MHz	*	2462	113.86	-	-	97.88	27.58	18.21	29.81	243	194	P	H
	*	2462	110.62	-	-	94.64	27.58	18.21	29.81	243	194	A	H
		2487.56	58.95	-15.05	74	43	27.52	18.25	29.82	243	194	P	H
		2487.48	49.03	-4.97	54	33.07	27.53	18.25	29.82	243	194	A	H
													H
													H
	*	2462	106.77	-	-	90.79	27.58	18.21	29.81	383	84	P	V
	*	2462	103.58	-	-	87.6	27.58	18.21	29.81	383	84	A	V
		2488.28	57.38	-16.62	74	41.44	27.52	18.25	29.83	383	84	P	V
		2487.56	45.91	-8.09	54	29.96	27.52	18.25	29.82	383	84	A	V
													V
													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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	41.76	-32.24	74	57.29	31.15	12.41	59.09	100	0	P	H
													H
													H
													H
		4824	41.86	-32.14	74	57.39	31.15	12.41	59.09	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	48.05	-25.95	74	63.57	31.1	12.5	59.12	100	0	P	H
		7311	44.87	-29.13	74	51.39	36.44	15.6	58.56	100	0	P	H
													H
													H
		4874	47.73	-26.27	74	63.25	31.1	12.5	59.12	100	0	P	V
		7311	44.95	-29.05	74	51.47	36.44	15.6	58.56	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	46.12	-27.88	74	61.64	31.1	12.53	59.15	100	0	P	H
		7386	45.75	-28.25	74	51.95	36.53	15.73	58.46	100	0	P	H
													H
													H
		4924	47.26	-26.74	74	62.78	31.1	12.53	59.15	100	0	P	V
		7386	45.28	-28.72	74	51.48	36.53	15.73	58.46	100	0	P	V
													V
													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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		2389.905	60.65	-13.35	74	44.7	27.64	18.09	29.78	253	197	P	H
		2390	51.07	-2.93	54	35.12	27.64	18.09	29.78	253	197	A	H
	*	2412	111.11	-	-	95.17	27.6	18.13	29.79	253	197	P	H
	*	2412	103.83	-	-	87.89	27.6	18.13	29.79	253	197	A	H
													H
													H
		2338.665	56.99	-17.01	74	40.89	27.85	18.01	29.76	400	98	P	V
		2390	46.11	-7.89	54	30.16	27.64	18.09	29.78	400	98	A	V
	*	2412	103.17	-	-	87.23	27.6	18.13	29.79	400	98	P	V
	*	2412	95.93	-	-	79.99	27.6	18.13	29.79	400	98	A	V
													V
													V
802.11g CH 06 2437MHz		2389.24	58.46	-15.54	74	42.12	27.64	18.48	29.78	245	194	P	H
		2389.94	48.22	-5.78	54	31.88	27.64	18.48	29.78	245	194	A	H
	*	2437	116.34	-	-	99.97	27.6	18.57	29.8	245	194	P	H
	*	2437	108.48	-	-	92.11	27.6	18.57	29.8	245	194	A	H
		2483.83	61.2	-12.8	74	44.83	27.53	18.66	29.82	245	194	P	H
		2483.55	50.29	-3.71	54	33.92	27.53	18.66	29.82	245	194	A	H
		2366.98	56.83	-17.17	74	40.43	27.73	18.44	29.77	337	95	P	V
		2389.8	45.24	-8.76	54	28.9	27.64	18.48	29.78	337	95	A	V
	*	2437	108.98	-	-	92.61	27.6	18.57	29.8	337	95	P	V
	*	2437	100.62	-	-	84.25	27.6	18.57	29.8	337	95	A	V
		2483.97	57.62	-16.38	74	41.25	27.53	18.66	29.82	337	95	P	V
		2483.55	46.49	-7.51	54	30.12	27.53	18.66	29.82	337	95	A	V



802.11g CH 11 2462MHz	*	2462	110.24	-	-	94.26	27.58	18.21	29.81	246	193	P	H
	*	2462	102.45	-	-	86.47	27.58	18.21	29.81	246	193	A	H
		2483.84	62.49	-11.51	74	46.54	27.53	18.24	29.82	246	193	P	H
		2483.52	51.72	-2.28	54	35.77	27.53	18.24	29.82	246	193	A	H
													H
													H
	*	2462	103.36	-	-	87.38	27.58	18.21	29.81	384	98	P	V
	*	2462	95.54	-	-	79.56	27.58	18.21	29.81	384	98	A	V
		2486.08	57.59	-16.41	74	41.63	27.53	18.25	29.82	384	98	P	V
		2483.56	46.92	-7.08	54	30.97	27.53	18.24	29.82	384	98	A	V
													V
													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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	42.13	-31.87	74	56.71	31.15	13.36	59.09	100	0	P	H
													H
													H
													H
		4824	42.46	-31.54	74	57.04	31.15	13.36	59.09	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	45.22	-28.78	74	60.74	31.1	12.5	59.12	100	0	P	H
		7311	44.75	-29.25	74	51.27	36.44	15.6	58.56	100	0	P	H
													H
													H
		4874	43.66	-30.34	74	59.18	31.1	12.5	59.12	100	0	P	V
		7311	45.49	-28.51	74	52.01	36.44	15.6	58.56	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	41.68	-32.32	74	56.37	31.1	13.36	59.15	100	0	P	H
		7386	46.88	-27.12	74	52.45	36.53	16.36	58.46	100	0	P	H
													H
													H
		4924	41.48	-32.52	74	56.17	31.1	13.36	59.15	100	0	P	V
		7386	46.14	-27.86	74	51.71	36.53	16.36	58.46	100	0	P	V
													V
													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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		2389.8	59.09	-14.91	74	43.14	27.64	18.09	29.78	285	182	P	H
		2390	50.93	-3.07	54	34.98	27.64	18.09	29.78	285	182	A	H
	*	2412	110.53	-	-	94.59	27.6	18.13	29.79	285	182	P	H
	*	2412	103.06	-	-	87.12	27.6	18.13	29.79	285	182	A	H
													H
													H
		2360.085	57.25	-16.75	74	41.22	27.76	18.04	29.77	400	98	P	V
		2389.905	46.52	-7.48	54	30.57	27.64	18.09	29.78	400	98	A	V
	*	2412	103.03	-	-	87.09	27.6	18.13	29.79	400	98	P	V
	*	2412	95.01	-	-	79.07	27.6	18.13	29.79	400	98	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2388.54	57.6	-16.4	74	41.25	27.65	18.48	29.78	247	194	P	H
		2389.66	48	-6	54	31.66	27.64	18.48	29.78	247	194	A	H
	*	2437	114.9	-	-	98.53	27.6	18.57	29.8	247	194	P	H
	*	2437	106.81	-	-	90.44	27.6	18.57	29.8	247	194	A	H
		2484.18	59.74	-14.26	74	43.37	27.53	18.66	29.82	247	194	P	H
		2485.58	50.14	-3.86	54	33.76	27.53	18.67	29.82	247	194	A	H
		2365.72	57.59	-16.41	74	41.18	27.74	18.44	29.77	339	98	P	V
		2318.12	46.08	-7.92	54	29.55	27.93	18.35	29.75	339	98	A	V
	*	2437	107.2	-	-	90.83	27.6	18.57	29.8	339	98	P	V
	*	2437	98.86	-	-	82.49	27.6	18.57	29.8	339	98	A	V
		2485.09	57.01	-16.99	74	40.63	27.53	18.67	29.82	339	98	P	V
		2485.37	46.96	-7.04	54	30.58	27.53	18.67	29.82	339	98	A	V



802.11n HT20 CH 11 2462MHz	*	2462	109.25	-	-	93.27	27.58	18.21	29.81	307	186	P	H
	*	2462	101.61	-	-	85.63	27.58	18.21	29.81	307	186	A	H
		2484.08	61.57	-12.43	74	45.62	27.53	18.24	29.82	307	186	P	H
		2483.52	52.33	-1.67	54	36.38	27.53	18.24	29.82	307	186	A	H
													H
													H
	*	2462	101.95	-	-	85.97	27.58	18.21	29.81	383	101	P	V
	*	2462	94.38	-	-	78.4	27.58	18.21	29.81	383	101	A	V
		2485.52	57.55	-16.45	74	41.59	27.53	18.25	29.82	383	101	P	V
		2483.76	47.7	-6.3	54	31.75	27.53	18.24	29.82	383	101	A	V
													V
													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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	41.24	-32.76	74	55.82	31.15	13.36	59.09	100	0	P	H
													H
													H
													H
		4824	42.22	-31.78	74	56.8	31.15	13.36	59.09	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	44.72	-29.28	74	59.38	31.1	13.36	59.12	100	0	P	H
		7311	46.04	-27.96	74	52	36.44	16.16	58.56	100	0	P	H
													H
													H
		4874	44.57	-29.43	74	59.23	31.1	13.36	59.12	100	0	P	V
		7311	45.87	-28.13	74	51.83	36.44	16.16	58.56	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	41.34	-32.66	74	56.03	31.1	13.36	59.15	100	0	P	H
		7386	48	-26	74	53.57	36.53	16.36	58.46	100	0	P	H
													H
													H
		4924	41.46	-32.54	74	56.15	31.1	13.36	59.15	100	0	P	V
		7386	47.06	-26.94	74	52.63	36.53	16.36	58.46	100	0	P	V
													V
													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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 03 2422MHz		2389.94	57.05	-16.95	74	41.1	27.64	18.09	29.78	281	189	P	H
		2389.66	48.35	-5.65	54	32.4	27.64	18.09	29.78	281	189	A	H
	*	2422	104.91	-	-	88.96	27.6	18.15	29.8	281	189	P	H
	*	2422	96.93	-	-	80.98	27.6	18.15	29.8	281	189	A	H
		2488.17	56.59	-17.41	74	40.65	27.52	18.25	29.83	281	189	P	H
		2489.5	47.32	-6.68	54	31.38	27.52	18.25	29.83	281	189	A	H
		2356.62	57.07	-16.93	74	41.03	27.77	18.04	29.77	400	97	P	V
		2388.96	47.16	-6.84	54	31.21	27.64	18.09	29.78	400	97	A	V
	*	2422	96.8	-	-	80.85	27.6	18.15	29.8	400	97	P	V
	*	2422	89.52	-	-	73.57	27.6	18.15	29.8	400	97	A	V
		2489.64	57	-17	74	41.06	27.52	18.25	29.83	400	97	P	V
		2496.01	46.78	-7.22	54	30.84	27.51	18.26	29.83	400	97	A	V
802.11n HT40 CH 06 2437MHz		2389.94	58.61	-15.39	74	42.66	27.64	18.09	29.78	279	180	P	H
		2389.94	48.63	-5.37	54	32.68	27.64	18.09	29.78	279	180	A	H
	*	2437	106.69	-	-	90.72	27.6	18.17	29.8	279	180	P	H
	*	2437	98.91	-	-	82.94	27.6	18.17	29.8	279	180	A	H
		2487.54	67.15	-6.85	74	51.2	27.52	18.25	29.82	279	180	P	H
		2483.55	52.08	-1.92	54	36.13	27.53	18.24	29.82	279	180	A	H
		2358.02	56.86	-17.14	74	40.82	27.77	18.04	29.77	399	97	P	V
		2319.1	47.1	-6.9	54	30.95	27.92	17.98	29.75	399	97	A	V
	*	2437	99.37	-	-	83.4	27.6	18.17	29.8	399	97	P	V
	*	2437	91.36	-	-	75.39	27.6	18.17	29.8	399	97	A	V
		2483.62	58.47	-15.53	74	42.52	27.53	18.24	29.82	399	97	P	V
		2483.97	47.6	-6.4	54	31.65	27.53	18.24	29.82	399	97	A	V



802.11n HT40 CH 09 2452MHz		2347.52	56.41	-17.59	74	40.35	27.81	18.02	29.77	252	196	P	H
		2389.1	46.82	-7.18	54	30.87	27.64	18.09	29.78	252	196	A	H
	*	2452	107.46	-	-	91.48	27.6	18.19	29.81	252	196	P	H
	*	2452	99.5	-	-	83.52	27.6	18.19	29.81	252	196	A	H
		2485.44	61.28	-12.72	74	45.32	27.53	18.25	29.82	252	196	P	H
		2483.5	52.6	-1.4	54	36.65	27.53	18.24	29.82	252	196	A	H
		2354.94	56.99	-17.01	74	40.94	27.78	18.04	29.77	385	99	P	V
		2361.52	46.74	-7.26	54	30.71	27.75	18.05	29.77	385	99	A	V
	*	2452	99.61	-	-	83.63	27.6	18.19	29.81	385	99	P	V
	*	2452	92.19	-	-	76.21	27.6	18.19	29.81	385	99	A	V
		2484.32	58.1	-15.9	74	42.15	27.53	18.24	29.82	385	99	P	V
		2485.23	48.68	-5.32	54	32.72	27.53	18.25	29.82	385	99	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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 03 2422MHz		4844	41.24	-32.76	74	55.8	31.19	13.36	59.11	100	0	P	H
		7266	46.24	-27.76	74	52.49	36.33	16.05	58.63	100	0	P	H
													H
													H
		4844	41.92	-32.08	74	56.48	31.19	13.36	59.11	100	0	P	V
		7266	46.35	-27.65	74	52.6	36.33	16.05	58.63	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	40.94	-33.06	74	55.6	31.1	13.36	59.12	100	0	P	H
		7311	45.94	-28.06	74	51.9	36.44	16.16	58.56	100	0	P	H
													H
													H
		4874	40.97	-33.03	74	55.63	31.1	13.36	59.12	100	0	P	V
		7311	45.95	-28.05	74	51.91	36.44	16.16	58.56	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	41.05	-32.95	74	55.81	31.02	13.36	59.14	100	0	P	H
		7356	47.04	-26.96	74	52.67	36.59	16.28	58.5	100	0	P	H
													H
													H
		4904	40.37	-33.63	74	55.13	31.02	13.36	59.14	100	0	P	V
		7356	46.73	-27.27	74	52.36	36.59	16.28	58.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

[illegible]



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
2.4GHz 802.11n HT40 LF		74.62	22.46	-17.54	40	40.94	12.62	1.24	32.34	-	-	P	H
		119.24	26.19	-17.31	43.5	39.51	17.25	1.69	32.26	-	-	P	H
		264.74	20	-26	46	29.61	20.04	2.7	32.35	-	-	P	H
		406.36	27.42	-18.58	46	34.15	22.09	3.37	32.19	-	-	P	H
		452.92	29.82	-16.18	46	35.21	23.2	3.55	32.14	-	-	P	H
		745.86	30.57	-15.43	46	30.05	28.1	4.67	32.25	100	0	P	H
													H
													H
													H
													H
													H
		42.61	27.86	-12.14	40	41.43	17.95	0.82	32.34	100	0	P	V
		63.95	26.07	-13.93	40	45.64	11.69	1.12	32.38	-	-	P	V
		117.3	22.03	-21.47	43.5	35.32	17.29	1.68	32.26	-	-	P	V
		355.92	23.27	-22.73	46	31.85	20.56	3.13	32.27	-	-	P	V
		398.6	30.22	-15.78	46	37.29	21.8	3.33	32.2	-	-	P	V
		460.68	31.41	-14.59	46	36.57	23.39	3.58	32.13	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		2389.275	58.84	-15.16	74	42.89	27.64	18.09	29.78	100	9	P	H
		2388.96	49.81	-4.19	54	33.86	27.64	18.09	29.78	100	9	A	H
	*	2412	114.06	-	-	98.12	27.6	18.13	29.79	100	9	P	H
	*	2412	110.9	-	-	94.96	27.6	18.13	29.79	100	9	A	H
													H
													H
		2342.865	56.93	-17.07	74	40.84	27.83	18.02	29.76	227	292	P	V
		2389.17	45.52	-8.48	54	29.57	27.64	18.09	29.78	227	292	A	V
	*	2412	104.4	-	-	88.46	27.6	18.13	29.79	227	292	P	V
	*	2412	101.36	-	-	85.42	27.6	18.13	29.79	227	292	A	V
													V
													V
802.11b CH 06 2437MHz		2362.64	56.2	-17.8	74	39.79	27.75	18.43	29.77	107	12	P	H
		2389.94	44.9	-9.1	54	28.56	27.64	18.48	29.78	107	12	A	H
	*	2437	115.58	-	-	99.21	27.6	18.57	29.8	107	12	P	H
	*	2437	112.3	-	-	95.93	27.6	18.57	29.8	107	12	A	H
		2492.72	57.07	-16.93	74	40.71	27.51	18.68	29.83	107	12	P	H
		2485.02	46.48	-7.52	54	30.1	27.53	18.67	29.82	107	12	A	H
		2370.34	56.4	-17.6	74	40.01	27.72	18.45	29.78	100	284	P	V
		2389.52	44.38	-9.62	54	28.04	27.64	18.48	29.78	100	284	A	V
	*	2437	106.2	-	-	89.83	27.6	18.57	29.8	100	284	P	V
	*	2437	102.97	-	-	86.6	27.6	18.57	29.8	100	284	A	V
		2495.59	56.94	-17.06	74	40.57	27.51	18.69	29.83	100	284	P	V
		2484.95	44.63	-9.37	54	28.25	27.53	18.67	29.82	100	284	A	V



802.11b CH 11 2462MHz	*	2462	116.09	-	-	100.11	27.58	18.21	29.81	100	1	P	H
	*	2462	112.94	-	-	96.96	27.58	18.21	29.81	100	1	A	H
		2486.08	61.31	-12.69	74	45.35	27.53	18.25	29.82	100	1	P	H
		2487.64	51.96	-2.04	54	36.01	27.52	18.25	29.82	100	1	A	H
													H
													H
	*	2462	105.35	-	-	89.37	27.58	18.21	29.81	250	306	P	V
	*	2462	102.24	-	-	86.26	27.58	18.21	29.81	250	306	A	V
		2484.24	57.01	-16.99	74	41.06	27.53	18.24	29.82	250	306	P	V
		2487.36	45.83	-8.17	54	29.87	27.53	18.25	29.82	250	306	A	V
													V
													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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	46.65	-27.35	74	61.23	31.15	13.36	59.09	100	0	P	H
													H
													H
													H
		4824	46.11	-27.89	74	60.69	31.15	13.36	59.09	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	45.59	-28.41	74	61.14	31.1	12.47	59.12	100	0	P	H
		7311	45.55	-28.45	74	52	36.44	15.67	58.56	100	0	P	H
													H
													H
		4874	44.04	-29.96	74	59.59	31.1	12.47	59.12	100	0	P	V
		7311	46.14	-27.86	74	52.59	36.44	15.67	58.56	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	49.91	-24.09	74	64.6	31.1	13.36	59.15	100	0	P	H
		7386	47.12	-26.88	74	52.69	36.53	16.36	58.46	100	0	P	H
													H
													H
		4924	48.46	-25.54	74	63.15	31.1	13.36	59.15	100	0	P	V
		7386	46.11	-27.89	74	51.68	36.53	16.36	58.46	100	0	P	V
													V
													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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		2388.645	61.19	-12.81	74	45.23	27.65	18.09	29.78	103	8	P	H
		2390	50.45	-3.55	54	34.5	27.64	18.09	29.78	103	8	A	H
	*	2412	114.45	-	-	98.51	27.6	18.13	29.79	103	8	P	H
	*	2412	106.09	-	-	90.15	27.6	18.13	29.79	103	8	A	H
													H
													H
		2366.7	56.87	-17.13	74	40.85	27.73	18.06	29.77	144	290	P	V
		2390	46.35	-7.65	54	30.4	27.64	18.09	29.78	144	290	A	V
	*	2412	105.04	-	-	89.1	27.6	18.13	29.79	144	290	P	V
	*	2412	96.8	-	-	80.86	27.6	18.13	29.79	144	290	A	V
													V
													V
802.11g CH 06 2437MHz		2388.4	57.83	-16.17	74	41.48	27.65	18.48	29.78	106	12	P	H
		2389.94	46.97	-7.03	54	30.63	27.64	18.48	29.78	106	12	A	H
	*	2437	115.72	-	-	99.35	27.6	18.57	29.8	106	12	P	H
	*	2437	108.09	-	-	91.72	27.6	18.57	29.8	106	12	A	H
		2484.53	62.59	-11.41	74	46.22	27.53	18.66	29.82	106	12	P	H
		2483.5	51.78	-2.22	54	35.41	27.53	18.66	29.82	106	12	A	H
		2346.26	55.96	-18.04	74	39.52	27.81	18.4	29.77	100	271	P	V
		2389.66	45.09	-8.91	54	28.75	27.64	18.48	29.78	100	271	A	V
	*	2437	106.53	-	-	90.16	27.6	18.57	29.8	100	271	P	V
	*	2437	98.82	-	-	82.45	27.6	18.57	29.8	100	271	A	V
		2487.05	56.52	-17.48	74	40.14	27.53	18.67	29.82	100	271	P	V
		2483.5	45.46	-8.54	54	29.09	27.53	18.66	29.82	100	271	A	V



802.11g CH 11 2462MHz	*	2462	113.34	-	-	97.36	27.58	18.21	29.81	102	1	P	H
	*	2462	105.28	-	-	89.3	27.58	18.21	29.81	102	1	A	H
		2484	64.72	-9.28	74	48.77	27.53	18.24	29.82	102	1	P	H
		2483.56	51.83	-2.17	54	35.88	27.53	18.24	29.82	102	1	A	H
													H
													H
	*	2462	102.42	-	-	86.44	27.58	18.21	29.81	249	308	P	V
	*	2462	94.35	-	-	78.37	27.58	18.21	29.81	249	308	A	V
		2499.36	57.66	-16.34	74	41.72	27.5	18.27	29.83	249	308	P	V
		2483.52	45.69	-8.31	54	29.74	27.53	18.24	29.82	249	308	A	V
													V
													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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	41.89	-32.11	74	56.47	31.15	13.36	59.09	100	0	P	H
													H
													H
													H
		4824	41.92	-32.08	74	56.5	31.15	13.36	59.09	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	41.42	-32.58	74	56.97	31.1	12.47	59.12	100	0	P	H
		7311	46.09	-27.91	74	52.54	36.44	15.67	58.56	100	0	P	H
													H
													H
		4874	41.72	-32.28	74	57.27	31.1	12.47	59.12	100	0	P	V
		7311	44.56	-29.44	74	51.01	36.44	15.67	58.56	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	43.84	-30.16	74	58.53	31.1	13.36	59.15	100	0	P	H
		7386	46.25	-27.75	74	51.82	36.53	16.36	58.46	100	0	P	H
													H
													H
		4924	42.6	-31.4	74	57.29	31.1	13.36	59.15	100	0	P	V
		7386	46.06	-27.94	74	51.63	36.53	16.36	58.46	100	0	P	V
													V
													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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		2389.485	63.34	-10.66	74	47.39	27.64	18.09	29.78	106	356	P	H
		2390	52.26	-1.74	54	36.31	27.64	18.09	29.78	106	356	A	H
	*	2412	114.35	-	-	98.41	27.6	18.13	29.79	106	356	P	H
	*	2412	106.33	-	-	90.39	27.6	18.13	29.79	106	356	A	H
													H
													H
		2390	57.85	-16.15	74	41.9	27.64	18.09	29.78	100	265	P	V
		2389.905	47.42	-6.58	54	31.47	27.64	18.09	29.78	100	265	A	V
	*	2412	106.65	-	-	90.71	27.6	18.13	29.79	100	265	P	V
	*	2412	98.24	-	-	82.3	27.6	18.13	29.79	100	265	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2387.84	56.85	-17.15	74	40.5	27.65	18.48	29.78	107	12	P	H
		2389.94	48.01	-5.99	54	31.67	27.64	18.48	29.78	107	12	A	H
	*	2437	115.4	-	-	99.03	27.6	18.57	29.8	107	12	P	H
	*	2437	107.67	-	-	91.3	27.6	18.57	29.8	107	12	A	H
		2484.46	62.93	-11.07	74	46.56	27.53	18.66	29.82	107	12	P	H
		2483.5	52.83	-1.17	54	36.46	27.53	18.66	29.82	107	12	A	H
		2349.9	56.89	-17.11	74	40.45	27.8	18.41	29.77	126	264	P	V
		2332.68	46	-8	54	29.51	27.87	18.38	29.76	126	264	A	V
	*	2437	106.5	-	-	90.13	27.6	18.57	29.8	126	264	P	V
	*	2437	98.5	-	-	82.13	27.6	18.57	29.8	126	264	A	V
		2484.53	56.88	-17.12	74	40.51	27.53	18.66	29.82	126	264	P	V
		2483.69	46.27	-7.73	54	29.9	27.53	18.66	29.82	126	264	A	V



802.11n HT20 CH 11 2462MHz	*	2462	111.75	-	-	95.77	27.58	18.21	29.81	101	357	P	H
	*	2462	103.6	-	-	87.62	27.58	18.21	29.81	101	357	A	H
		2483.68	62.92	-11.08	74	46.97	27.53	18.24	29.82	101	357	P	H
		2483.68	52.89	-1.11	54	36.94	27.53	18.24	29.82	101	357	A	H
													H
													H
	*	2462	102.25	-	-	86.27	27.58	18.21	29.81	117	269	P	V
	*	2462	94.33	-	-	78.35	27.58	18.21	29.81	117	269	A	V
		2484.2	57.5	-16.5	74	41.55	27.53	18.24	29.82	117	269	P	V
		2483.6	46.92	-7.08	54	30.97	27.53	18.24	29.82	117	269	A	V
													V
													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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	41.76	-32.24	74	56.34	31.15	13.36	59.09	100	0	P	H
													H
													H
													H
		4824	42.18	-31.82	74	56.76	31.15	13.36	59.09	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	41.15	-32.85	74	55.81	31.1	13.36	59.12	100	0	P	H
		7311	45.83	-28.17	74	51.79	36.44	16.16	58.56	100	0	P	H
													H
													H
		4874	40.99	-33.01	74	55.65	31.1	13.36	59.12	100	0	P	V
		7311	46.35	-27.65	74	52.31	36.44	16.16	58.56	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	40.96	-33.04	74	55.65	31.1	13.36	59.15	100	0	P	H
		7386	47	-27	74	52.57	36.53	16.36	58.46	100	0	P	H
													H
													H
		4924	40.78	-33.22	74	55.47	31.1	13.36	59.15	100	0	P	V
		7386	46.3	-27.7	74	51.87	36.53	16.36	58.46	100	0	P	V
													V
													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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 03 2422MHz		2389.8	60.38	-13.62	74	44.43	27.64	18.09	29.78	106	354	P	H
		2389.94	51.87	-2.13	54	35.92	27.64	18.09	29.78	106	354	A	H
	*	2422	108.89	-	-	92.94	27.6	18.15	29.8	106	354	P	H
	*	2422	101.4	-	-	85.45	27.6	18.15	29.8	106	354	A	H
		2485.37	57.51	-16.49	74	41.55	27.53	18.25	29.82	106	354	P	H
		2483.76	48.92	-5.08	54	32.97	27.53	18.24	29.82	106	354	A	H
		2389.52	56.98	-17.02	74	41.03	27.64	18.09	29.78	100	262	P	V
		2389.94	47.67	-6.33	54	31.72	27.64	18.09	29.78	100	262	A	V
	*	2422	100.62	-	-	84.67	27.6	18.15	29.8	100	262	P	V
	*	2422	93.13	-	-	77.18	27.6	18.15	29.8	100	262	A	V
		2495.31	56.1	-17.9	74	40.16	27.51	18.26	29.83	100	262	P	V
		2494.47	46.7	-7.3	54	30.76	27.51	18.26	29.83	100	262	A	V
802.11n HT40 CH 06 2437MHz		2389.8	59.76	-14.24	74	43.81	27.64	18.09	29.78	106	356	P	H
		2389.24	49.68	-4.32	54	33.73	27.64	18.09	29.78	106	356	A	H
	*	2437	108.34	-	-	92.37	27.6	18.17	29.8	106	356	P	H
	*	2437	100.22	-	-	84.25	27.6	18.17	29.8	106	356	A	H
		2483.55	62.61	-11.39	74	46.66	27.53	18.24	29.82	106	356	P	H
		2483.5	52.73	-1.27	54	36.78	27.53	18.24	29.82	106	356	A	H
		2319.24	57.78	-16.22	74	41.63	27.92	17.98	29.75	100	262	P	V
		2388.82	46.71	-7.29	54	30.76	27.64	18.09	29.78	100	262	A	V
	*	2437	99.54	-	-	83.57	27.6	18.17	29.8	100	262	P	V
	*	2437	91.84	-	-	75.87	27.6	18.17	29.8	100	262	A	V
		2495.1	56.62	-17.38	74	40.68	27.51	18.26	29.83	100	262	P	V
		2484.11	46.67	-7.33	54	30.72	27.53	18.24	29.82	100	262	A	V



802.11n HT40 CH 09 2452MHz		2341.36	56.65	-17.35	74	40.57	27.83	18.01	29.76	100	337	P	H
		2389.8	46.71	-7.29	54	30.76	27.64	18.09	29.78	100	337	A	H
	*	2452	108.01	-	-	92.03	27.6	18.19	29.81	100	337	P	H
	*	2452	100.16	-	-	84.18	27.6	18.19	29.81	100	337	A	H
		2484.32	62.05	-11.95	74	46.1	27.53	18.24	29.82	100	337	P	H
		2483.62	52.5	-1.5	54	36.55	27.53	18.24	29.82	100	337	A	H
		2366.7	57.31	-16.69	74	41.29	27.73	18.06	29.77	116	264	P	V
		2372.44	46.47	-7.53	54	30.48	27.71	18.06	29.78	116	264	A	V
	*	2452	98.31	-	-	82.33	27.6	18.19	29.81	116	264	P	V
	*	2452	90.84	-	-	74.86	27.6	18.19	29.81	116	264	A	V
		2487.68	57.06	-16.94	74	41.11	27.52	18.25	29.82	116	264	P	V
		2485.02	47.09	-6.91	54	31.13	27.53	18.25	29.82	116	264	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 03 2422MHz		4844	41.47	-32.53	74	56.03	31.19	13.36	59.11	100	0	P	H
		7266	45.36	-28.64	74	51.61	36.33	16.05	58.63	100	0	P	H
													H
													H
		4844	41.41	-32.59	74	55.97	31.19	13.36	59.11	100	0	P	V
		7266	45.72	-28.28	74	51.97	36.33	16.05	58.63	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	41	-33	74	55.66	31.1	13.36	59.12	100	0	P	H
		7311	45.64	-28.36	74	51.6	36.44	16.16	58.56	100	0	P	H
													H
													H
		4874	40.85	-33.15	74	55.51	31.1	13.36	59.12	100	0	P	V
		7311	45.28	-28.72	74	51.24	36.44	16.16	58.56	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	41.18	-32.82	74	55.94	31.02	13.36	59.14	100	0	P	H
		7356	47.83	-26.17	74	53.46	36.59	16.28	58.5	100	0	P	H
													H
													H
		4904	40.64	-33.36	74	55.4	31.02	13.36	59.14	100	0	P	V
		7356	46.73	-27.27	74	52.36	36.59	16.28	58.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

2.4GHz WIFI 802.11n HT20 (SHF)

[illegible]

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11n HT20 LF		30.97	21.8	-18.2	40	29.25	24.09	0.67	32.21	-	-	P	H	
		74.62	23.15	-16.85	40	41.63	12.62	1.24	32.34	-	-	P	H	
		118.27	27.43	-16.07	43.5	40.73	17.27	1.69	32.26	-	-	P	H	
		353.01	24.62	-21.38	46	33.32	20.47	3.11	32.28	-	-	P	H	
		405.39	30.11	-15.89	46	36.89	22.05	3.36	32.19	-	-	P	H	
		455.83	30.97	-15.03	46	36.26	23.29	3.56	32.14	100	0	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
		42.61	27.95	-12.05	40	41.52	17.95	0.82	32.34	100	0	P	V	
		74.62	26.49	-13.51	40	44.97	12.62	1.24	32.34	-	-	P	V	
		135.73	23.09	-20.41	43.5	36.22	17.32	1.83	32.28	-	-	P	V	
		397.63	30.3	-15.7	46	37.41	21.76	3.33	32.2	-	-	P	V	
		462.62	30.96	-15.04	46	36.11	23.4	3.58	32.13	-	-	P	V	
		743.92	30.55	-15.45	46	30.05	28.08	4.67	32.25	-	-	P	V	
														V
														V
														V
														V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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 CH 01 2412MHz		2389.905	59.16	-14.84	74	43.21	27.64	18.09	29.78	360	192	P	H
		2388.855	49.19	-4.81	54	33.24	27.64	18.09	29.78	360	192	A	H
	*	2412	107.47	-	-	91.53	27.6	18.13	29.79	360	192	P	H
	*	2412	104.87	-	-	88.93	27.6	18.13	29.79	360	192	A	H
													H
													H
		2359.56	57.17	-16.83	74	41.14	27.76	18.04	29.77	304	83	P	V
		2387.385	44.92	-9.08	54	28.96	27.65	18.09	29.78	304	83	A	V
	*	2412	109.31	-	-	93.37	27.6	18.13	29.79	304	83	P	V
	*	2412	106.33	-	-	90.39	27.6	18.13	29.79	304	83	A	V
													V
													V
802.11b CH 06 2437MHz		2380.28	56.86	-17.14	74	40.5	27.68	18.46	29.78	100	10	P	H
		2389.38	44.7	-9.3	54	28.36	27.64	18.48	29.78	100	10	A	H
	*	2437	116.08	-	-	99.71	27.6	18.57	29.8	100	10	P	H
	*	2437	113.09	-	-	96.72	27.6	18.57	29.8	100	10	A	H
		2484.88	57.74	-16.26	74	41.36	27.53	18.67	29.82	100	10	P	H
		2484.74	45.54	-8.46	54	29.16	27.53	18.67	29.82	100	10	A	H
		2330.16	57.48	-16.52	74	40.99	27.88	18.37	29.76	338	100	P	V
		2388.96	44.54	-9.46	54	28.2	27.64	18.48	29.78	338	100	A	V
	*	2437	113.07	-	-	96.7	27.6	18.57	29.8	338	100	P	V
	*	2437	109.81	-	-	93.44	27.6	18.57	29.8	338	100	A	V
		2489.01	56.16	-17.84	74	39.8	27.52	18.67	29.83	338	100	P	V
		2484.39	44.84	-9.16	54	28.47	27.53	18.66	29.82	338	100	A	V



802.11b CH 11 2462MHz	*	2462	114.67	-	-	98.28	27.58	18.62	29.81	105	354	P	H
	*	2462	111.33	-	-	94.94	27.58	18.62	29.81	105	354	A	H
		2485.92	57.93	-16.07	74	41.55	27.53	18.67	29.82	105	354	P	H
		2487.28	48.74	-5.26	54	32.36	27.53	18.67	29.82	105	354	A	H
													H
													H
	*	2462	108.52	-	-	92.13	27.58	18.62	29.81	116	295	P	V
	*	2462	105.54	-	-	89.15	27.58	18.62	29.81	116	295	A	V
		2487.36	57.56	-16.44	74	41.18	27.53	18.67	29.82	116	295	P	V
		2486.04	45.47	-8.53	54	29.09	27.53	18.67	29.82	116	295	A	V
													V
													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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	43.43	-30.57	74	58.96	31.15	12.41	59.09	100	0	P	H
													H
													H
													H
		4824	43.44	-30.56	74	58.97	31.15	12.41	59.09	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	49.62	-24.38	74	65.14	31.1	12.5	59.12	100	0	P	H
		7311	46.01	-27.99	74	52.53	36.44	15.6	58.56	100	0	P	H
													H
													H
		4874	46.24	-27.76	74	61.76	31.1	12.5	59.12	100	0	P	V
		7311	45.77	-28.23	74	52.29	36.44	15.6	58.56	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	51.56	-22.44	74	67.08	31.1	12.53	59.15	298	50	P	H
		4924	48.66	-5.34	54	64.18	31.1	12.53	59.15	298	50	A	H
		7386	47.12	-26.88	74	53.32	36.53	15.73	58.46	100	0	P	H
													H
		4924	47.66	-26.34	74	63.18	31.1	12.53	59.15	100	0	P	V
		7386	47.82	-26.18	74	54.02	36.53	15.73	58.46	100	0	P	V
		4924	47.66	-26.34	74	63.18	31.1	12.53	59.15	100	0	P	V
													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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		2389.905	61.62	-12.38	74	45.67	27.64	18.09	29.78	248	207	P	H
		2389.59	51.03	-2.97	54	35.08	27.64	18.09	29.78	248	206	P	H
	*	2412	113.12	-	-	97.18	27.6	18.13	29.79	248	207	P	H
	*	2412	105.76	-	-	89.82	27.6	18.13	29.79	248	207	A	H
													H
													H
		2387.49	58.3	-15.7	74	42.34	27.65	18.09	29.78	307	98	P	V
		2388.855	46.14	-7.86	54	30.19	27.64	18.09	29.78	307	98	A	V
	*	2412	106.75	-	-	90.81	27.6	18.13	29.79	307	98	P	V
	*	2412	99.49	-	-	83.55	27.6	18.13	29.79	307	98	A	V
													V
													V
802.11g CH 06 2437MHz		2389.66	57.59	-16.41	74	41.64	27.64	18.09	29.78	100	350	P	H
		2389.94	46.28	-7.72	54	30.33	27.64	18.09	29.78	100	350	A	H
	*	2437	116.04	-	-	100.07	27.6	18.17	29.8	100	350	P	H
	*	2437	108.32	-	-	92.35	27.6	18.17	29.8	100	350	A	H
		2483.5	65.69	-8.31	74	49.74	27.53	18.24	29.82	100	350	P	H
		2483.5	51.48	-2.52	54	35.53	27.53	18.24	29.82	100	350	A	H
		2353.54	56.92	-17.08	74	40.87	27.79	18.03	29.77	338	84	P	V
		2389.94	44.73	-9.27	54	28.78	27.64	18.09	29.78	338	84	A	V
	*	2437	111.01	-	-	95.04	27.6	18.17	29.8	338	84	P	V
	*	2437	103.28	-	-	87.31	27.6	18.17	29.8	338	84	A	V
		2496.15	56.69	-17.31	74	40.75	27.51	18.26	29.83	338	84	P	V
		2483.55	45.48	-8.52	54	29.53	27.53	18.24	29.82	338	84	A	V



802.11g CH 11 2462MHz	*	2462	112.07	-	-	96.09	27.58	18.21	29.81	266	196	P	H
	*	2462	104.94	-	-	88.96	27.58	18.21	29.81	266	196	A	H
		2483.92	63.88	-10.12	74	47.93	27.53	18.24	29.82	266	196	P	H
		2483.52	52.8	-1.2	54	36.85	27.53	18.24	29.82	266	196	A	H
													H
													H
	*	2462	106.48	-	-	90.5	27.58	18.21	29.81	333	97	P	V
	*	2462	98.72	-	-	82.74	27.58	18.21	29.81	333	97	A	V
		2483.52	57.94	-16.06	74	41.99	27.53	18.24	29.82	333	97	P	V
		2483.52	47.16	-6.84	54	31.21	27.53	18.24	29.82	333	97	A	V
													V
													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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	40.92	-33.08	74	56.45	31.15	12.41	59.09	100	0	P	H
													H
													H
													H
		4824	39.96	-34.04	74	55.49	31.15	12.41	59.09	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	45.58	-28.42	74	61.1	31.1	12.5	59.12	100	0	P	H
		7311	45.85	-28.15	74	52.37	36.44	15.6	58.56	100	0	P	H
													H
													H
		4874	45.09	-28.91	74	60.61	31.1	12.5	59.12	100	0	P	V
		7311	45.43	-28.57	74	51.95	36.44	15.6	58.56	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	40.43	-33.57	74	55.95	31.1	12.53	59.15	100	0	P	H
		7386	47.35	-26.65	74	53.55	36.53	15.73	58.46	100	0	P	H
													H
													H
		4924	40.74	-33.26	74	56.26	31.1	12.53	59.15	100	0	P	V
		7386	46.68	-27.32	74	52.88	36.53	15.73	58.46	100	0	P	V
													V
													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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		2389.59	61.13	-12.87	74	45.18	27.64	18.09	29.78	242	201	P	H
		2390	50.16	-3.84	54	34.21	27.64	18.09	29.78	242	201	A	H
	*	2412	112.04	-	-	96.1	27.6	18.13	29.79	242	201	P	H
	*	2412	104	-	-	88.06	27.6	18.13	29.79	242	201	A	H
													H
													H
		2389.905	57.24	-16.76	74	41.29	27.64	18.09	29.78	302	304	P	V
		2389.38	46.87	-7.13	54	30.92	27.64	18.09	29.78	302	304	A	V
	*	2412	104.77	-	-	88.83	27.6	18.13	29.79	302	304	P	V
	*	2412	97.43	-	-	81.49	27.6	18.13	29.79	302	304	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2387.42	57.7	-16.3	74	41.35	27.65	18.48	29.78	100	346	P	H
		2389.52	47.48	-6.52	54	31.14	27.64	18.48	29.78	100	346	A	H
	*	2437	116.43	-	-	100.06	27.6	18.57	29.8	100	346	P	H
	*	2437	108.14	-	-	91.77	27.6	18.57	29.8	100	346	A	H
		2484.46	61.83	-12.17	74	45.46	27.53	18.66	29.82	100	346	P	H
		2483.5	52.2	-1.8	54	35.83	27.53	18.66	29.82	100	346	A	H
		2315.46	57.26	-16.74	74	40.73	27.94	18.34	29.75	338	99	P	V
		2389.66	46.32	-7.68	54	29.98	27.64	18.48	29.78	338	99	A	V
	*	2437	111.08	-	-	94.71	27.6	18.57	29.8	338	99	P	V
	*	2437	103.5	-	-	87.13	27.6	18.57	29.8	338	99	A	V
		2491.25	57.44	-16.56	74	41.07	27.52	18.68	29.83	338	99	P	V
		2484.88	46.99	-7.01	54	30.61	27.53	18.67	29.82	338	99	A	V



802.11n HT20 CH 11 2462MHz	*	2462	111.25	-	-	95.27	27.58	18.21	29.81	302	193	P	H
	*	2462	103.69	-	-	87.71	27.58	18.21	29.81	302	193	A	H
		2483.6	62.81	-11.19	74	46.86	27.53	18.24	29.82	302	193	P	H
		2483.8	52.65	-1.35	54	36.7	27.53	18.24	29.82	302	193	A	H
													H
													H
	*	2462	106.07	-	-	90.09	27.58	18.21	29.81	377	99	P	V
	*	2462	98.69	-	-	82.71	27.58	18.21	29.81	377	99	A	V
		2484.96	58.33	-15.67	74	42.37	27.53	18.25	29.82	377	99	P	V
		2483.6	48.3	-5.7	54	32.35	27.53	18.24	29.82	377	99	A	V
													V
													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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 01 2412MHz		4824	42.85	-31.15	74	58.38	31.15	12.41	59.09	100	0	P	H
													H
													H
													H
		4824	40.76	-33.24	74	56.29	31.15	12.41	59.09	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	44.31	-29.69	74	59.86	31.1	12.47	59.12	100	0	P	H
		7311	46.7	-27.3	74	53.15	36.44	15.67	58.56	100	0	P	H
													H
													H
		4874	42.87	-31.13	74	58.42	31.1	12.47	59.12	100	0	P	V
		7311	46.59	-27.41	74	53.04	36.44	15.67	58.56	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	40.48	-33.52	74	56	31.1	12.53	59.15	100	0	P	H
		7386	46.2	-27.8	74	52.4	36.53	15.73	58.46	100	0	P	H
													H
													H
		4924	39.84	-34.16	74	55.36	31.1	12.53	59.15	100	0	P	V
		7386	45.92	-28.08	74	52.12	36.53	15.73	58.46	100	0	P	V
													V
													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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 03 2422MHz		2370.48	58.16	-15.84	74	42.16	27.72	18.06	29.78	249	200	P	H
		2389.94	50.09	-3.91	54	34.14	27.64	18.09	29.78	249	200	A	H
	*	2422	106.02	-	-	90.07	27.6	18.15	29.8	249	200	P	H
	*	2422	98.59	-	-	82.64	27.6	18.15	29.8	249	200	A	H
		2495.66	56.42	-17.58	74	40.48	27.51	18.26	29.83	249	200	P	H
		2483.62	47.22	-6.78	54	31.27	27.53	18.24	29.82	249	200	A	H
		2319.38	56.34	-17.66	74	40.19	27.92	17.98	29.75	294	302	P	V
		2350.18	46.78	-7.22	54	30.72	27.8	18.03	29.77	294	302	A	V
	*	2422	99.04	-	-	83.09	27.6	18.15	29.8	294	302	P	V
	*	2422	91.49	-	-	75.54	27.6	18.15	29.8	294	302	A	V
		2486.98	57.34	-16.66	74	41.38	27.53	18.25	29.82	294	302	P	V
		2493.49	46.78	-7.22	54	30.84	27.51	18.26	29.83	294	302	A	V
802.11n HT40 CH 06 2437MHz		2389.38	58.18	-15.82	74	42.23	27.64	18.09	29.78	277	200	P	H
		2389.94	49.85	-4.15	54	33.9	27.64	18.09	29.78	277	200	A	H
	*	2437	107.35	-	-	91.38	27.6	18.17	29.8	277	200	P	H
	*	2437	99.99	-	-	84.02	27.6	18.17	29.8	277	200	A	H
		2483.5	63.05	-10.95	74	47.1	27.53	18.24	29.82	277	200	P	H
		2483.69	52.34	-1.66	54	36.39	27.53	18.24	29.82	277	200	A	H
		2370.2	56.86	-17.14	74	40.86	27.72	18.06	29.78	291	306	P	V
		2328.2	46.69	-7.31	54	30.57	27.89	17.99	29.76	291	306	A	V
	*	2437	100.66	-	-	84.69	27.6	18.17	29.8	291	306	P	V
	*	2437	93.05	-	-	77.08	27.6	18.17	29.8	291	306	A	V
		2486.14	57.93	-16.07	74	41.97	27.53	18.25	29.82	291	306	P	V
		2483.76	47.7	-6.3	54	31.75	27.53	18.24	29.82	291	306	A	V



802.11n HT40 CH 09 2452MHz		2343.18	56.68	-17.32	74	40.59	27.83	18.02	29.76	275	203	P	H
		2328.34	46.79	-7.21	54	30.67	27.89	17.99	29.76	275	203	A	H
	*	2452	109.04	-	-	93.06	27.6	18.19	29.81	275	203	P	H
	*	2452	100.97	-	-	84.99	27.6	18.19	29.81	275	203	A	H
		2484.18	60.77	-13.23	74	44.82	27.53	18.24	29.82	275	203	P	H
		2485.58	52.42	-1.58	54	36.46	27.53	18.25	29.82	275	203	A	H
		2349.62	56.74	-17.26	74	40.68	27.8	18.03	29.77	119	301	P	V
		2383.08	46.71	-7.29	54	30.74	27.67	18.08	29.78	119	301	A	V
	*	2452	101.96	-	-	85.98	27.6	18.19	29.81	119	301	P	V
	*	2452	94.4	-	-	78.42	27.6	18.19	29.81	119	301	A	V
		2498.39	56.52	-17.48	74	40.58	27.5	18.27	29.83	119	301	P	V
		2483.55	47.6	-6.4	54	31.65	27.53	18.24	29.82	119	301	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 03 2422MHz		4844	40.21	-33.79	74	55.7	31.19	12.43	59.11	100	0	P	H
		7266	45.72	-28.28	74	52.38	36.33	15.64	58.63	100	0	P	H
													H
													H
		4844	41.42	-32.58	74	56.91	31.19	12.43	59.11	100	0	P	V
		7266	44.9	-29.1	74	51.56	36.33	15.64	58.63	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	40.2	-33.8	74	55.75	31.1	12.47	59.12	100	0	P	H
		7311	45.04	-28.96	74	51.49	36.44	15.67	58.56	100	0	P	H
													H
													H
		4874	40.73	-33.27	74	56.28	31.1	12.47	59.12	100	0	P	V
		7311	44.95	-29.05	74	51.4	36.44	15.67	58.56	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	39.49	-34.51	74	55.1	31.02	12.51	59.14	100	0	P	H
		7356	46.06	-27.94	74	52.27	36.59	15.7	58.5	100	0	P	H
													H
													H
		4904	39.4	-34.6	74	55.01	31.02	12.51	59.14	100	0	P	V
		7356	46.68	-27.32	74	52.89	36.59	15.7	58.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

2.4GHz WIFI 802.11g (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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)
2.4GHz 802.11g SHF		20002	36.53	-37.47	74	41.14	37.8	11.39	53.8	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		20331	37.64	-36.36	74	41.69	37.93	11.62	53.6	150	0	P	V
													V
													V
													V
													V
													V
													V
													V
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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)
2.4GHz 802.11g LF		74.62	24.06	-15.94	40	42.54	12.62	1.24	32.34	-	-	P	H
		118.27	26.45	-17.05	43.5	39.75	17.27	1.69	32.26	-	-	P	H
		265.71	20.26	-25.74	46	30.01	19.9	2.7	32.35	-	-	P	H
		398.6	27.99	-18.01	46	35.06	21.8	3.33	32.2	-	-	P	H
		463.59	29.05	-16.95	46	34.18	23.41	3.59	32.13	-	-	P	H
		825.4	35.17	-10.83	46	34.19	28.25	4.99	32.26	100	0	P	H
													H
													H
													H
													H
													H
													H
													H
		42.61	27.96	-12.04	40	41.53	17.95	0.82	32.34	-	-	P	V
		70.74	26.43	-13.57	40	45.31	12.28	1.2	32.36	-	-	P	V
		136.7	22.8	-20.7	43.5	35.86	17.38	1.84	32.28	-	-	P	V
		402.48	27.88	-18.12	46	34.79	21.94	3.35	32.2	-	-	P	V
		459.71	30.55	-15.45	46	35.74	23.37	3.57	32.13	-	-	P	V
		885.54	35.85	-10.15	46	33.6	29.04	5.2	31.99	100	0	P	V
													V
													V
													V
													V
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against 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 over limit 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	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
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

$$1. \text{ Path Loss(dB)} = \text{Cable loss(dB)} + \text{Filter loss(dB)} + \text{Attenuator loss(dB)}$$

$$2. \text{ Level(dB}\mu\text{V/m)} =$$

$$\text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$3. \text{ Over Limit(dB)} = \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 55.45(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 55.45(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 43.54(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 43.54(\text{dB}\mu\text{V/m}) - 54(\text{dB}\mu\text{V/m})$$

$$= -10.46(\text{dB})$$

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



Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Andy Yang, Karl Hou and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~65%

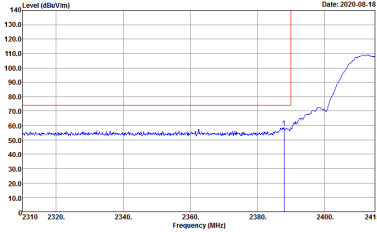
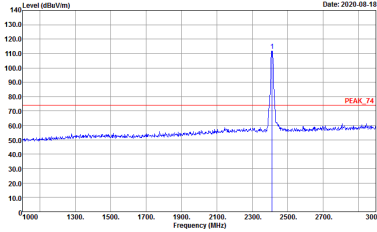
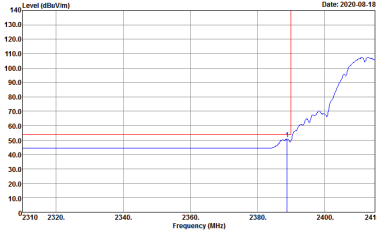
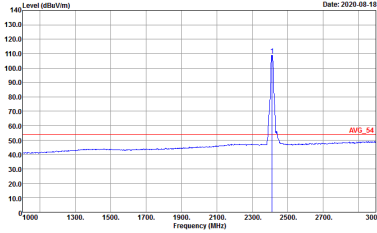
Note symbol

-L	Low channel location
-R	High channel location

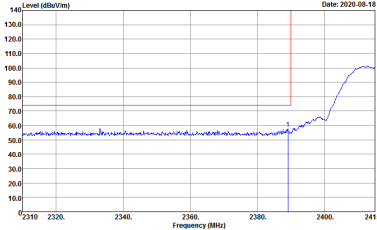
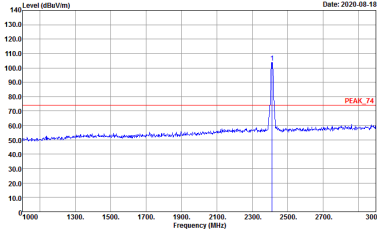
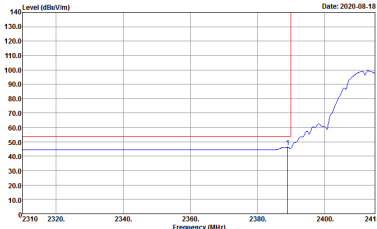
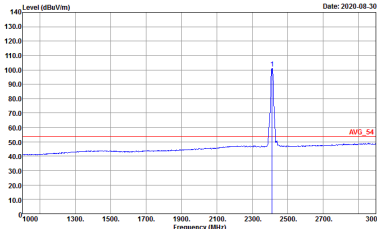


2.4GHz 2400~2483.5MHz

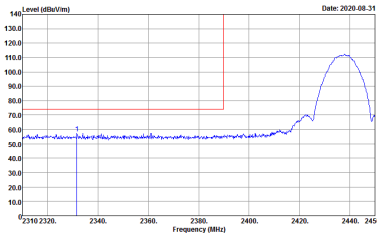
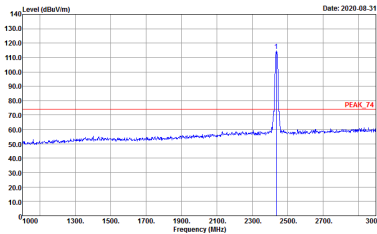
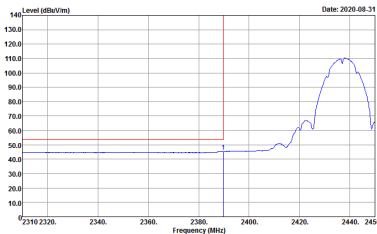
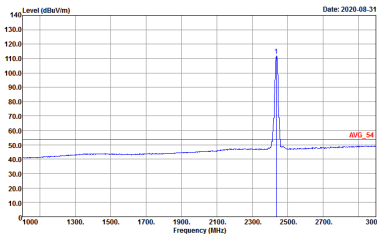
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5

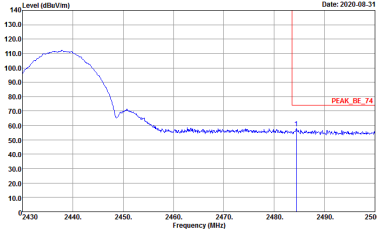
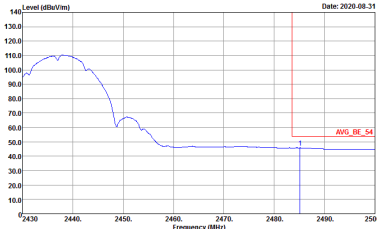


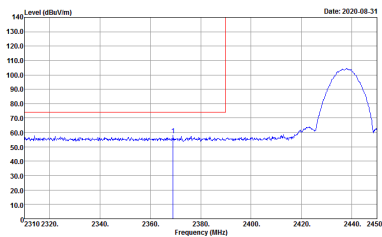
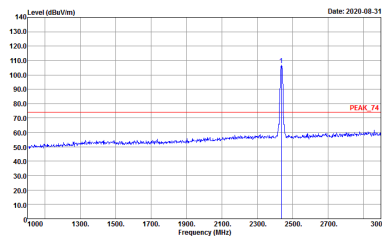
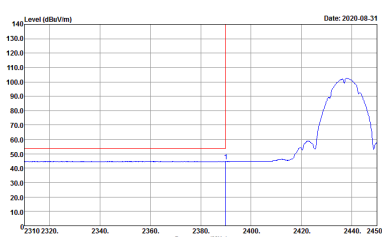
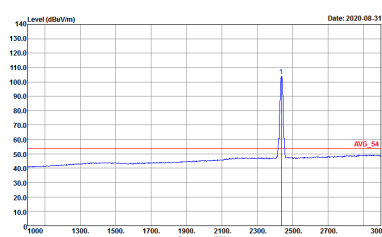
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 19.5



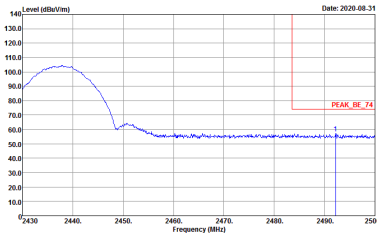
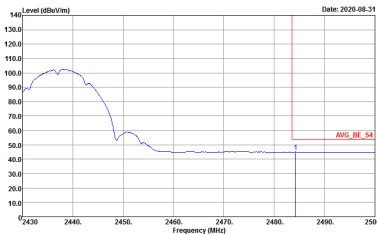
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944



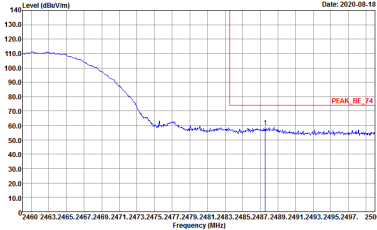
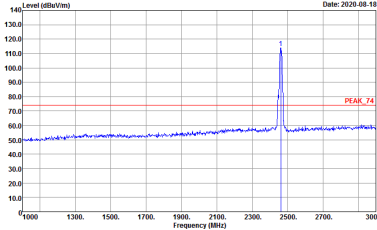
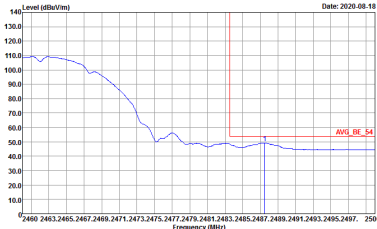
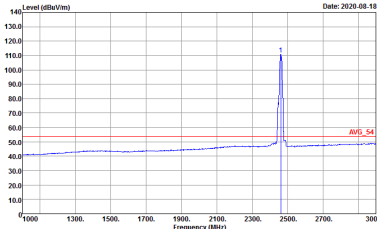
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944

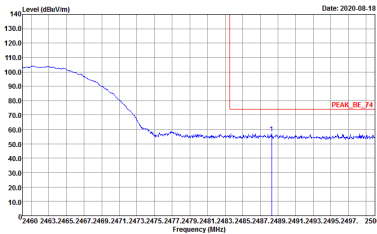
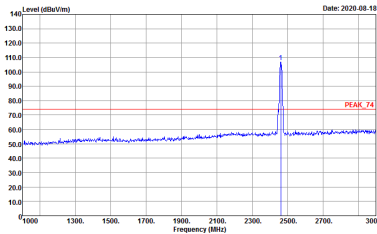
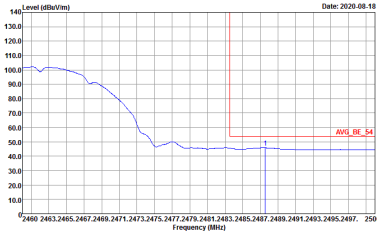
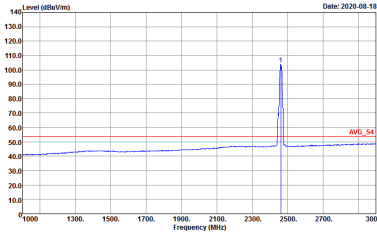


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_152Z VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_152Z VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 072944
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 072944	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 072944

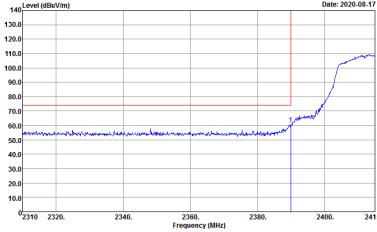
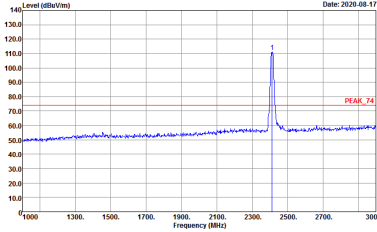
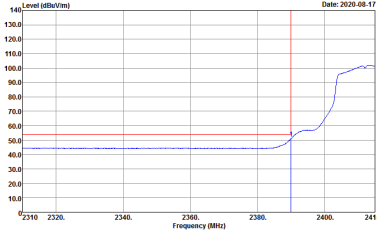
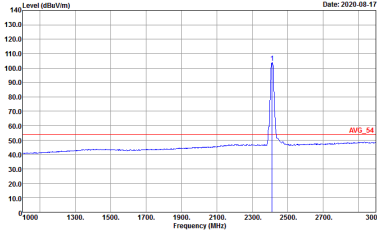


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 072944
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : Peak Project : 072944

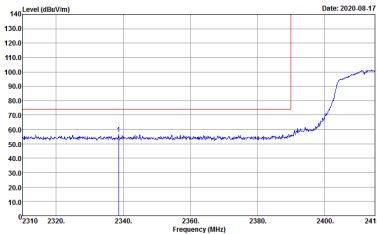
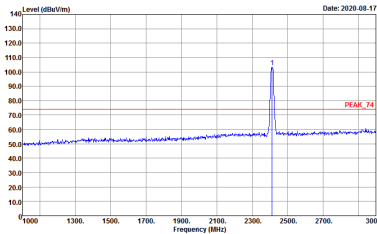
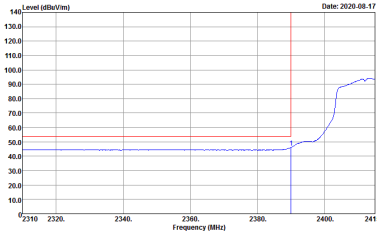
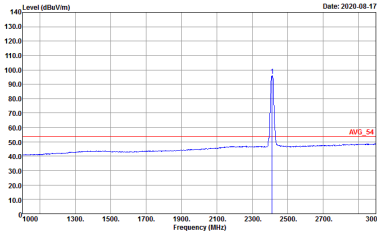


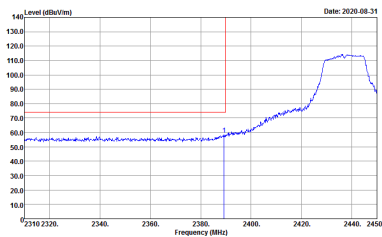
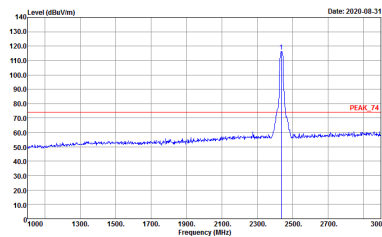
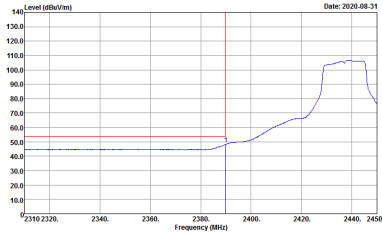
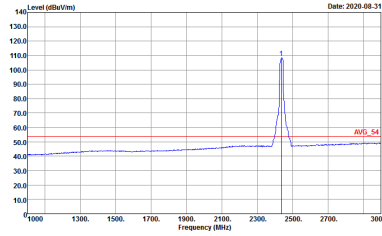
2.4GHz 2400~2483.5MHz

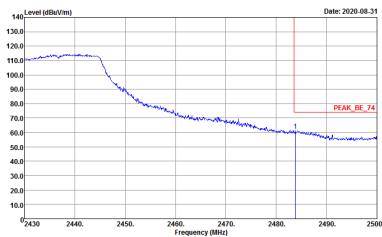
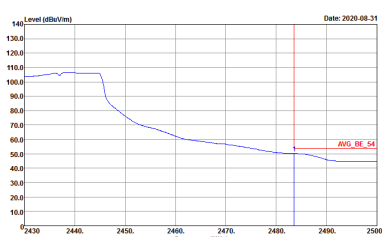
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 16	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 16
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 072944 Setting : 16	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 072944 Setting : 16

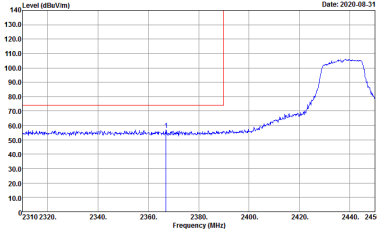
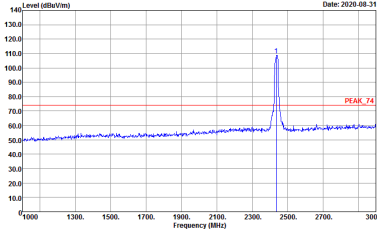
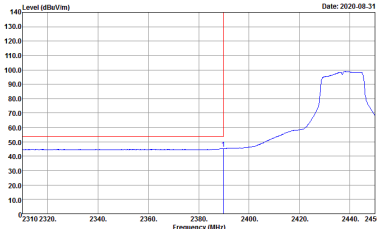
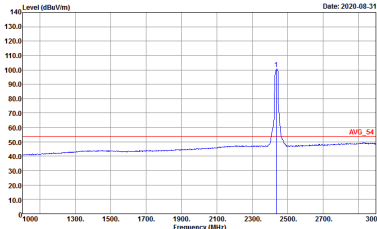


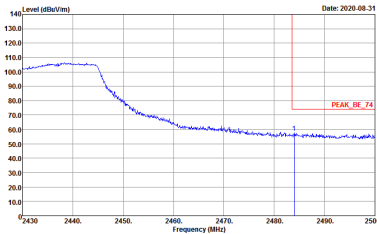
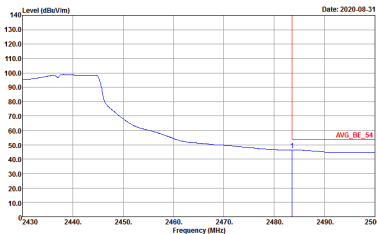
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 072944

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_152Z VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left Blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_152Z VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944 Setting : 16	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944 Setting : 16
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944 Setting : 16	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072944 Setting : 16

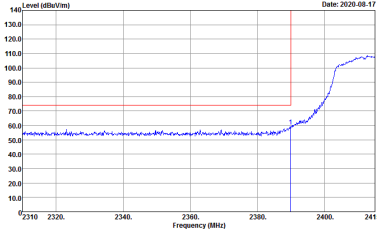
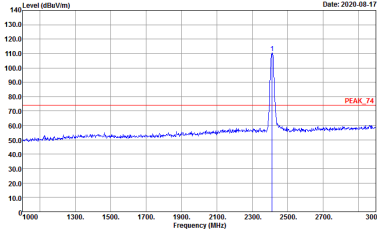
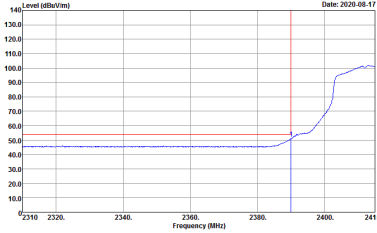
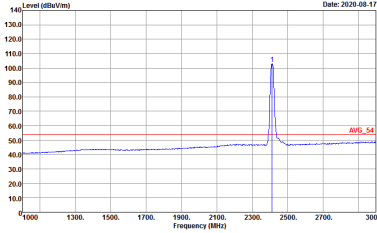


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical polarization. The plot shows a signal level starting at approximately 100 dBm/100kHz at 2400 MHz, dropping to about 50 dBm/100kHz by 2462 MHz, and then remaining relatively flat. A red line marks the peak level at 2462 MHz, labeled 'PEAK_BE_74'. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz. Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16	Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a signal level starting at approximately 50 dBm/100kHz at 2400 MHz, rising to a sharp peak of about 110 dBm/100kHz at 2462 MHz, and then dropping back to about 50 dBm/100kHz. A red line marks the peak level at 2462 MHz, labeled 'PEAK_74'. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz. Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16
	Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical polarization. The plot shows a signal level starting at approximately 100 dBm/100kHz at 2400 MHz, dropping to about 50 dBm/100kHz by 2462 MHz, and then remaining relatively flat. A red line marks the average level at 2462 MHz, labeled 'AVG_BE_54'. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz. Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16	Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a signal level starting at approximately 50 dBm/100kHz at 2400 MHz, rising to a sharp peak of about 110 dBm/100kHz at 2462 MHz, and then dropping back to about 50 dBm/100kHz. A red line marks the average level at 2462 MHz, labeled 'AVG_54'. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz. Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : Peak Project : 072944 Setting : 16



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 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 15.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 15.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 15.5	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 072944 Setting : 15.5