



FCC Test Report

Equipment : N450 DB Wireless N Router
Brand Name : belkin
Model No. : F9K1105v5
FCC ID : K7SF9K1105V3
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
FCC Classification : NII
Applicant : Belkin International, Inc.
12045 East Waterfront Drive, Playa Vista, CA 90094
Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Portable Client

The product sample received on Feb. 24, 2016 and completely tested on Apr. 11, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown 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., the test report shall not be reproduced except in full.


Sam Chen
SPORTON INTERNATIONAL INC.



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Testing Applied Standards	8
1.3	Testing Location Information	8
1.4	Measurement Uncertainty	9
2	TEST CONFIGURATION OF EUT	10
2.1	Test Channel Mode	10
2.2	The Worst Case Measurement Configuration.....	11
2.3	EUT Operation during Test	11
2.4	Accessories	12
2.5	Support Equipment.....	12
2.6	Test Setup Diagram	13
3	TRANSMITTER TEST RESULT	16
3.1	AC Power-line Conducted Emissions	16
3.2	Emission Bandwidth	18
3.3	Maximum Conducted Output Power	19
3.4	Peak Power Spectral Density.....	21
3.5	Unwanted Emissions.....	24
3.6	Frequency Stability.....	29
4	TEST EQUIPMENT AND CALIBRATION DATA	31
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS		
APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH		
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER		
APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY		
APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS		
APPENDIX F. TEST RESULTS OF FREQUENCY STABILITY		
APPENDIX G. TEST PHOTOS		

Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied

Revision History

[illegible]

1 General Description

1.1 Information

1.1.1 RF General Information

Band	Mode	BWch (MHz)	Nss-Min	Nant
5.2G	11a	20	1	2
5.8G	11a	20	1	2
5.2G	HT20	20	1,(M0-15)	2
5.8G	HT20	20	1,(M0-15)	2
5.2G	HT40	40	1,(M0-15)	2
5.8G	HT40	40	1,(M0-15)	2

Note:

- 5.2G/5.2G-I(IC) is the 5.2GHz Band (5.15-5.25GHz).
- 5.8G/5.8G-I(IC) is the 5.8GHz Band (5.725-5.850GHz).
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	Arcadyan	N/A	PCB Antenna	N/A	3.43	-
2	Arcadyan	N/A	PCB Antenna	N/A	3.31	-
3	Arcadyan	N/A	PCB Antenna	N/A	-	3.06
4	Arcadyan	N/A	PCB Antenna	N/A	-	2.81

Note: The EUT has four antennas.

For 2.4GHz:

For IEEE 802.11b/g/n mode (1TX/1RX):

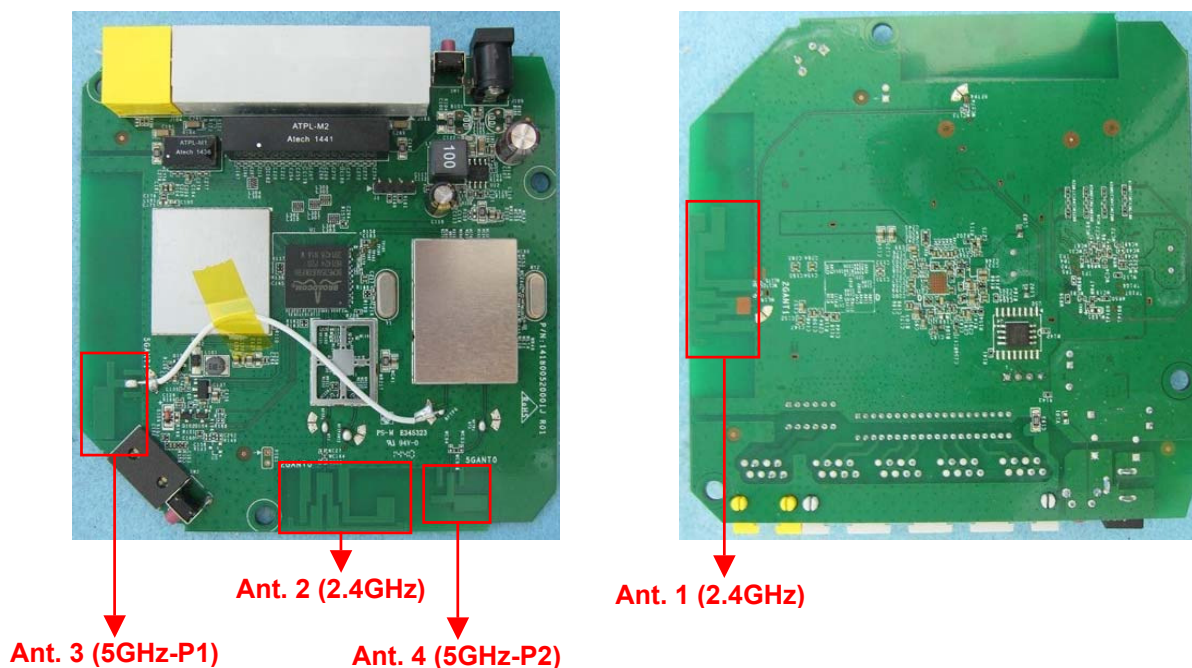
The EUT supports the antenna with TX/RX diversity function.

Both Ant. 1 and Ant. 2 can be used as transmitting/receiving antenna, but only one antenna can transmit/receive at the same time.

For 5GHz:

For IEEE 802.11a/n mode (2TX/2RX):

Ant. 3 and Ant. 4 could both transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

Mode	DC	T(s)	VBW(Hz) $\geq 1/T$
11a	0.977	2.068m	1k
HT20	0.977	1.913m	1k
HT40	0.954	935u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter		
Beamforming Function	☐ With beamforming	☒ Without beamforming	

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR240601

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Changing brand name to "belkin" from "Belkin". 2. Changing model number to "F9K1105v5" from "F9K1105v3".	It does not need to test.
3. Updating adapter (Model No.: MT12-Y120100-A1) to Level VI energy efficiency. 4. Changing flash to "16M flash (Brand Name: MXIC, Model No.: MX25L12835FM2I-10G)" from "8M flash (Brand Name: MXIC, Model No.: MX25L6406EM2I-12G)".	1. AC Power-line Conducted Emissions. 2. Unwanted Emissions Below 1GHz.
5. Updating test rule of 5GHz Band 1, 4 (5150~5250MHz, 5725~5850MHz) to "New Rules" from "Old Rules".	1. Emission Bandwidth. 2. Maximum Conducted Output Power. 3. Peak Power Spectral Density. 4. Unwanted Emissions Above 1GHz. 5. Frequency Stability.

1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 789033 D02 v01r02
- ◆ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.		
		TEL : 886-3-327-3456	FAX : 886-3-318-0055	
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.		
		TEL : 886-3-656-9065	FAX : 886-3-656-9085	

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Lucas Huang	22°C / 55	03/02/2016
Radiated < 1GHz	03CH01-CB	Akina Chiu	22°C / 58%	04/09/2016
Radiated > 1GHz	03CH01-CB	Owen Hsu, Brian Sun	22°C / 55%	02/26/2016~03/16/2016
AC Conduction	CO01-CB	Edison Lin	24°C / 59%	04/11/2016

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
5.2G	11a	20	1	2	5180	L	58
5.2G	11a	20	1	2	5200	M	59
5.2G	11a	20	1	2	5240	H	66
5.2G	HT20	20	1,(M0-15)	2	5180	L	60
5.2G	HT20	20	1,(M0-15)	2	5200	M	62
5.2G	HT20	20	1,(M0-15)	2	5240	H	70
5.2G	HT40	40	1,(M0-15)	2	5190	L	54
5.2G	HT40	40	1,(M0-15)	2	5230	H	74
5.8G	11a	20	1	2	5745	L	68
5.8G	11a	20	1	2	5785	M	100
5.8G	11a	20	1	2	5825	H	75
5.8G	HT20	20	1,(M0-15)	2	5745	L	68
5.8G	HT20	20	1,(M0-15)	2	5785	M	100
5.8G	HT20	20	1,(M0-15)	2	5825	H	75
5.8G	HT40	40	1,(M0-15)	2	5755	L	47
5.8G	HT40	40	1,(M0-15)	2	5795	H	70

Abbreviation Explanation

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Test Cond.	Abbreviation
5.2G	HT20	20	1,(M0-15)	2	2412	L	TN,VN	5.2G;HT20;20;1,(M0-15);2;5180;L;TN,VN
5.2G	HT40	40	1,(M0-15)	2	2437	L	TN,VN	5.2G;HT40;40;1,(M0-15);2;5190;L;TN,VN

Note:

- ♦ Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch. or Intra- band Ch.) and C (Inter-band Ch.).

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth, Maximum Conducted Output Power, Peak Power Spectral Density, Frequency Stability
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA4N1172-25AA for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Y axis position.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories			
Power	Brand	Model No.	Rating
Adapter	LEI	MT12-Y120100-A1	INPUT: 100-120Vac, 60Hz, 0.3A OUTPUT: 12Vdc, 1A
Other			

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*4	DELL	E6430	DoC

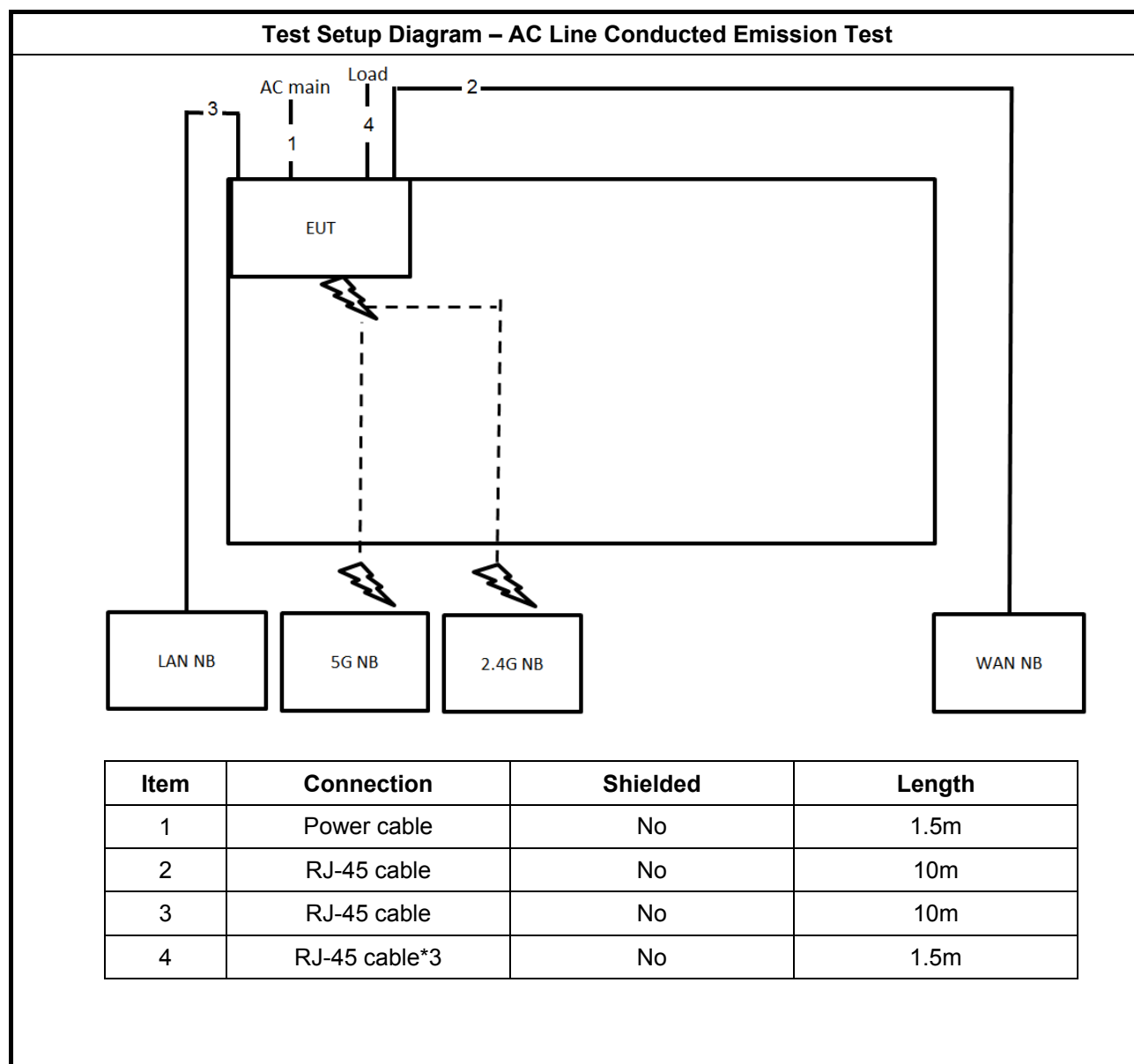
For Test Site No: 03CH01-CB (below 1GHz)

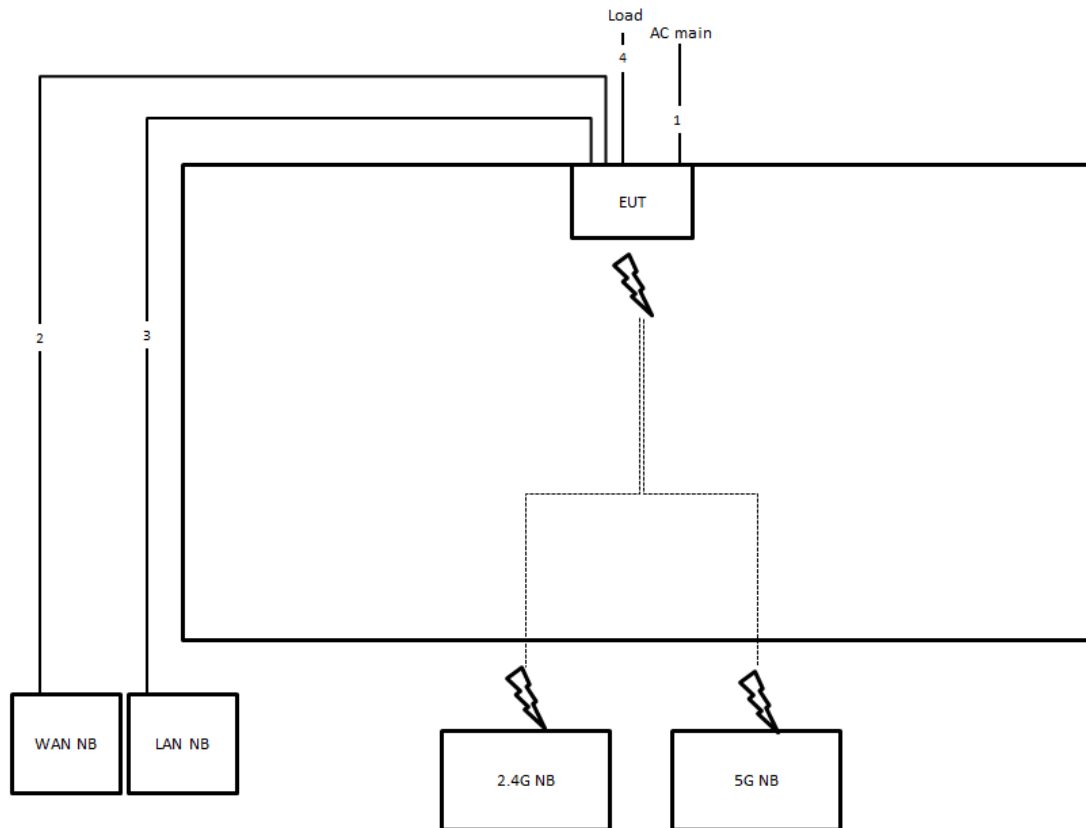
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*4	DELL	E4300	DoC

For Test Site No: 03CH01-CB (above 1GHz) and TH01-CB

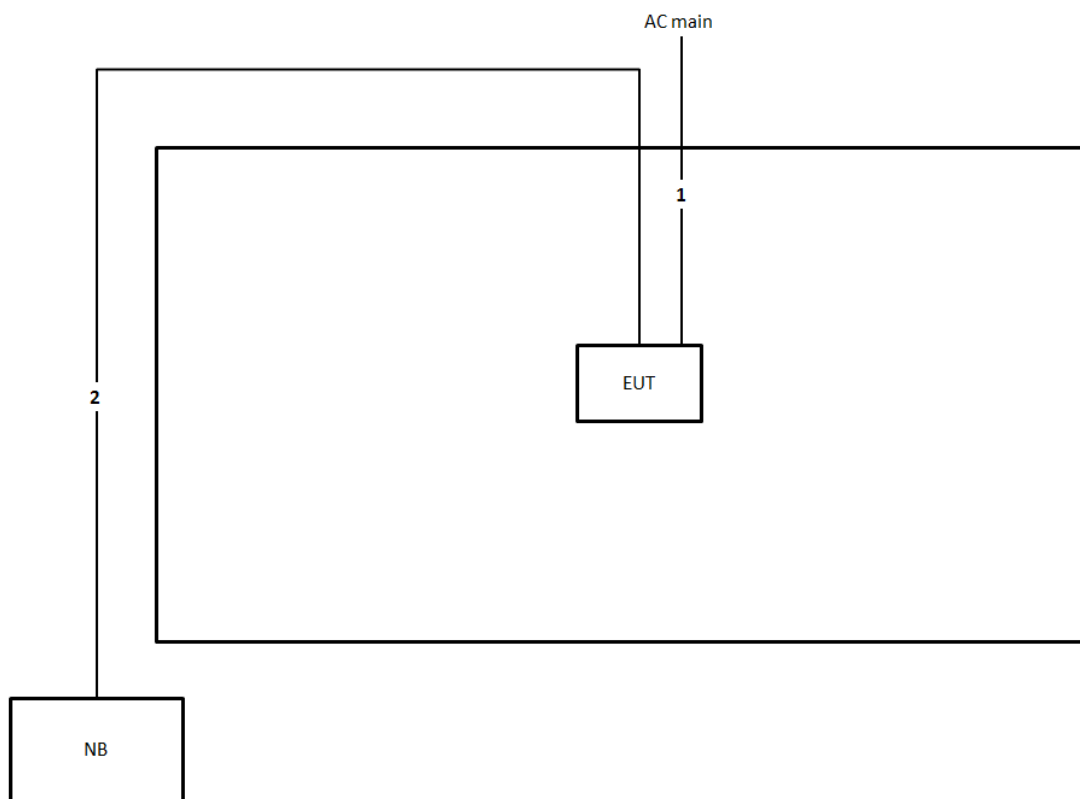
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	RJ-45 cable *3	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

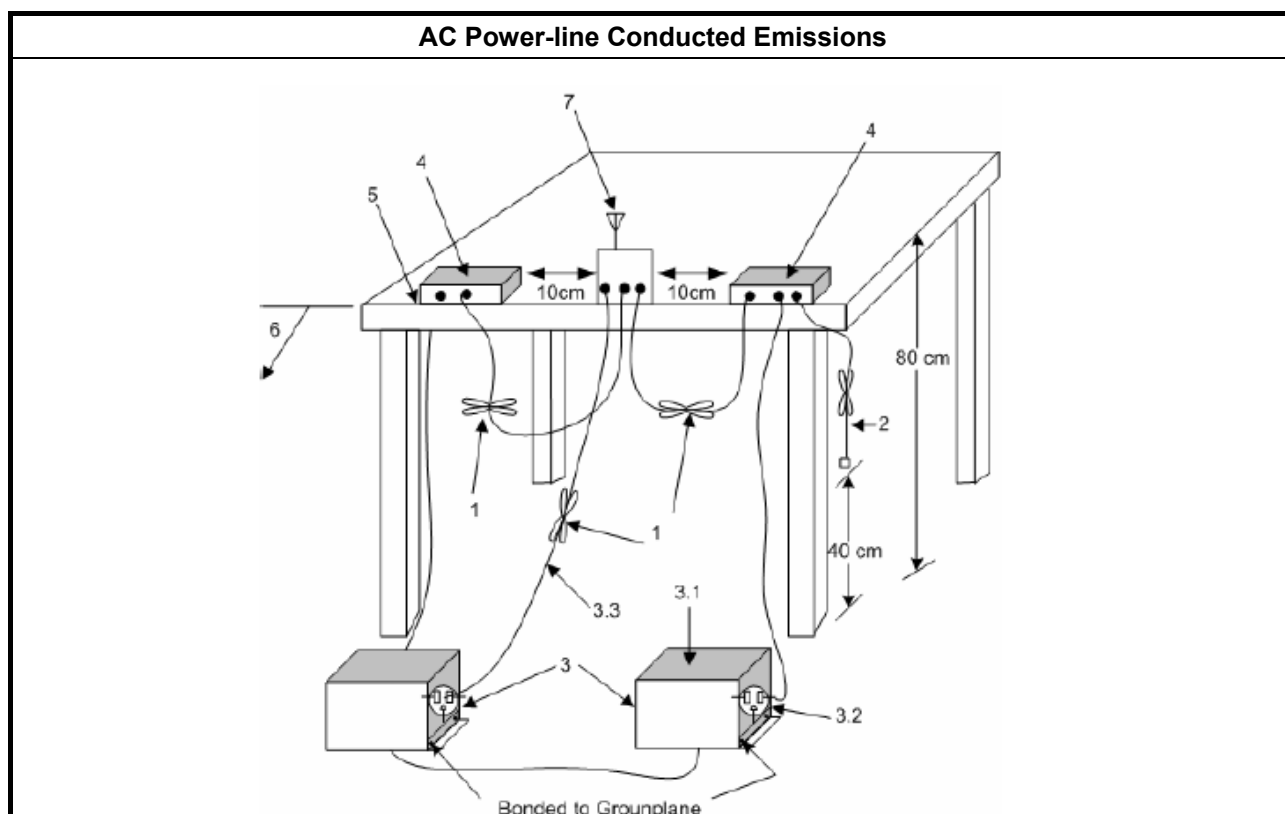
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

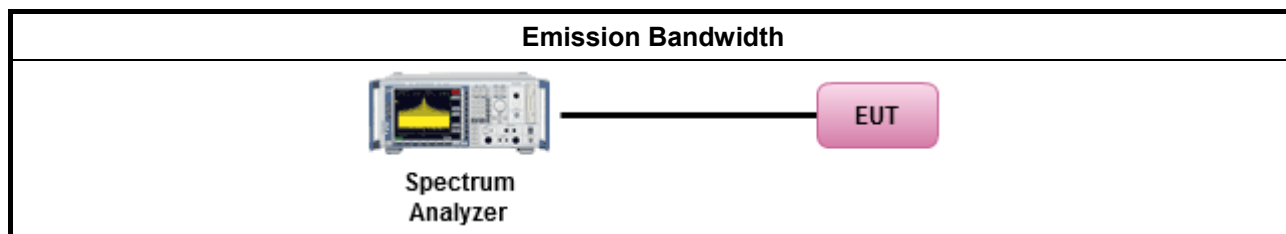
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033 D02 v01r02, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

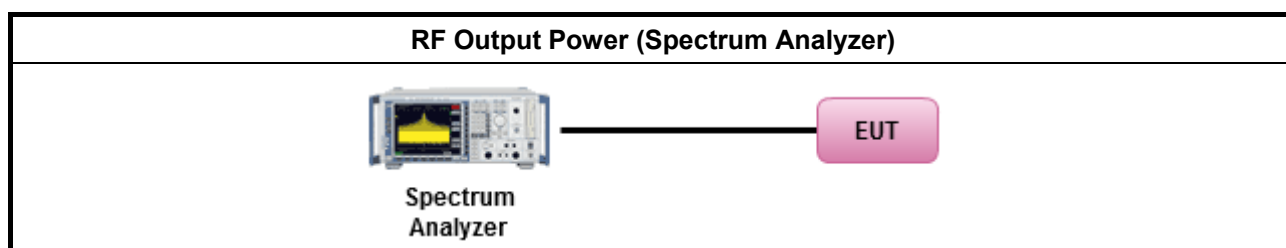
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	[duty cycle $\geq$ 98% or external video / power trigger]
☐	Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
☐	Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02 v01r02, clause E Method PM-G (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$; $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

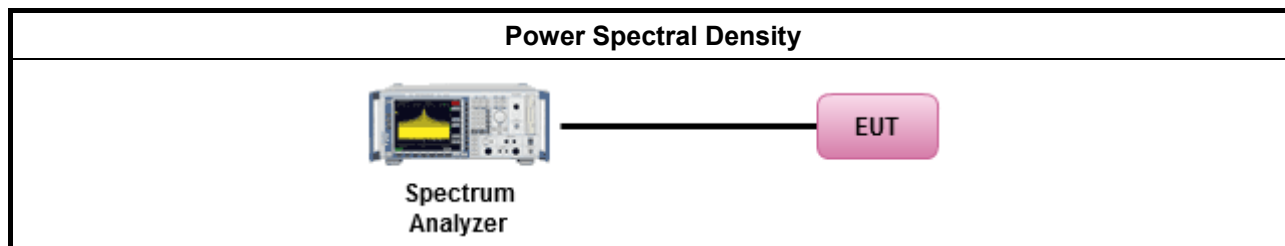
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as FCC KDB 789033 D02 v01r02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
[duty cycle ≥ 98% or external video / power trigger]	
☒ Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-1 (spectral trace averaging).	
☐ Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
duty cycle < 98% and average over on/off periods with duty factor	
☒ Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-2 (spectral trace averaging).	
☐ Refer as FCC KDB 789033 D02 v01r02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	
☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.715 5.725 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] 5.85 5.86 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

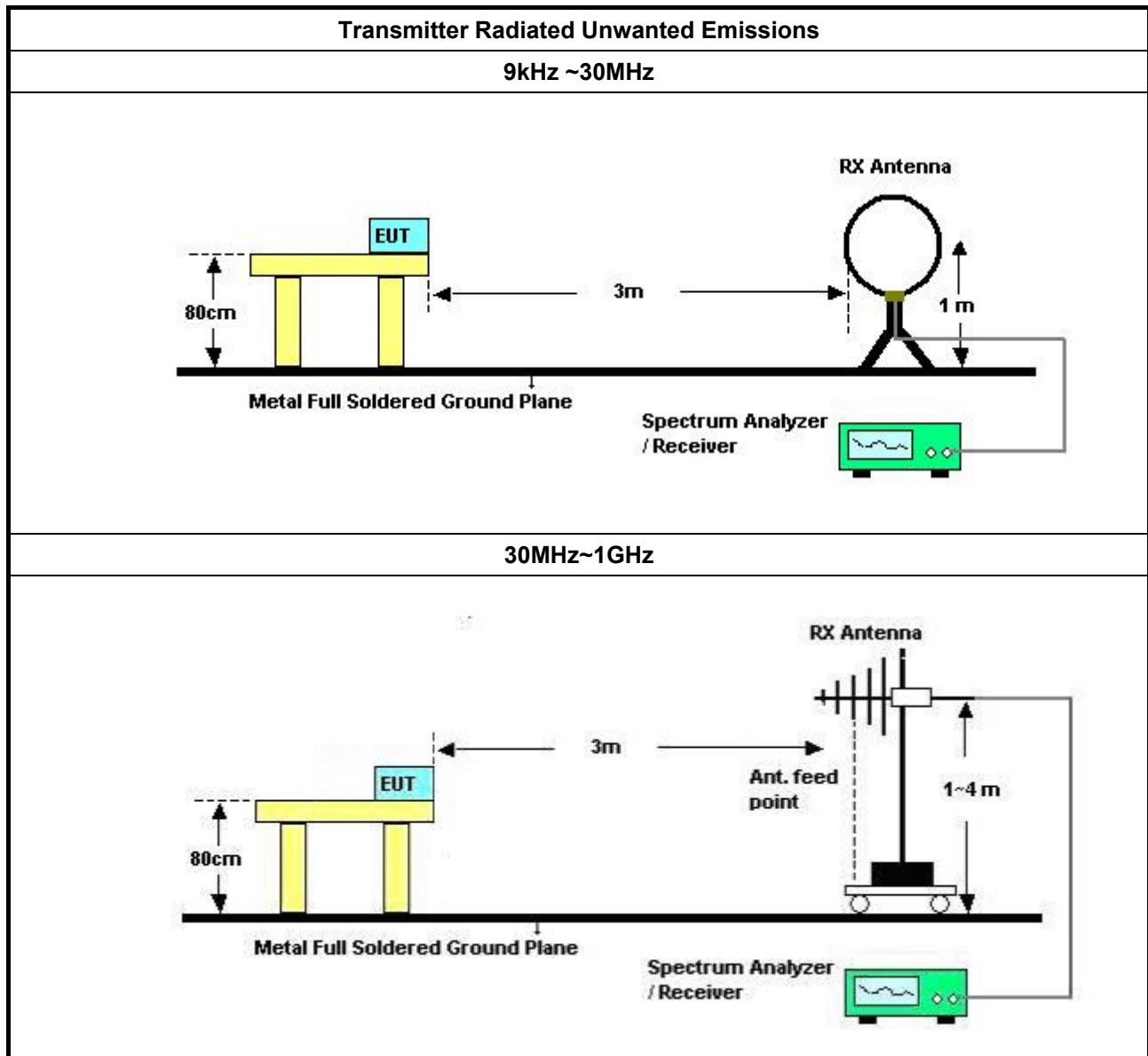
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

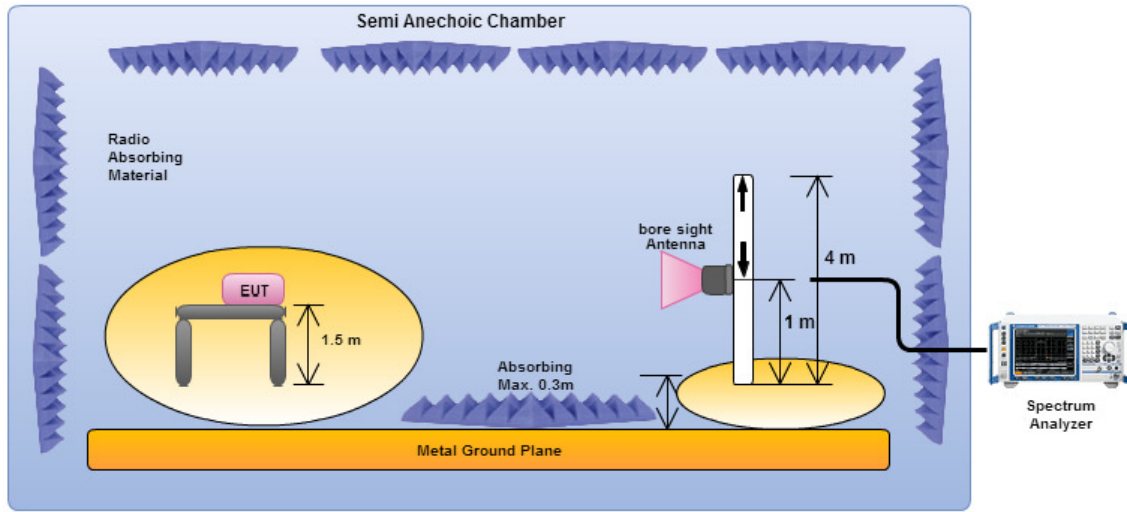
3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033 D02 v01r02, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02 v01r02, clause H)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033 D02 v01r02, H)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033 D02 v01r02, H)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033 D02 v01r02, clause H)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
	For radiated measurement.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	The any unwanted emissions level shall not exceed the fundamental emission level.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup



Above 1GHz





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices
N/A
IEEE Std. 802.11
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

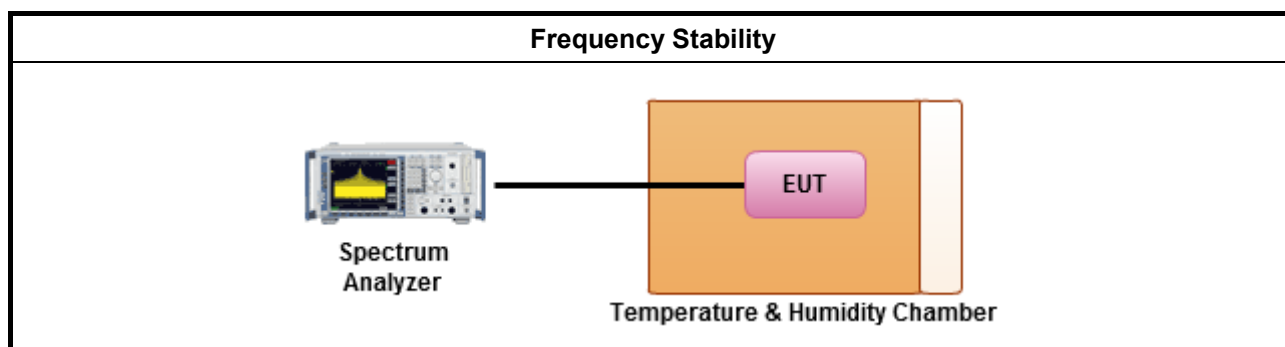
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10, clause 6.8 for frequency stability tests
- Frequency stability with respect to ambient temperature - Frequency stability when varying supply voltage - Extreme temperature is $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

3.6.4 Test Setup





3.6.5 Test Result of Frequency Stability

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 0216	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 25, 2015	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 13, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 27, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)



FCC Test Report

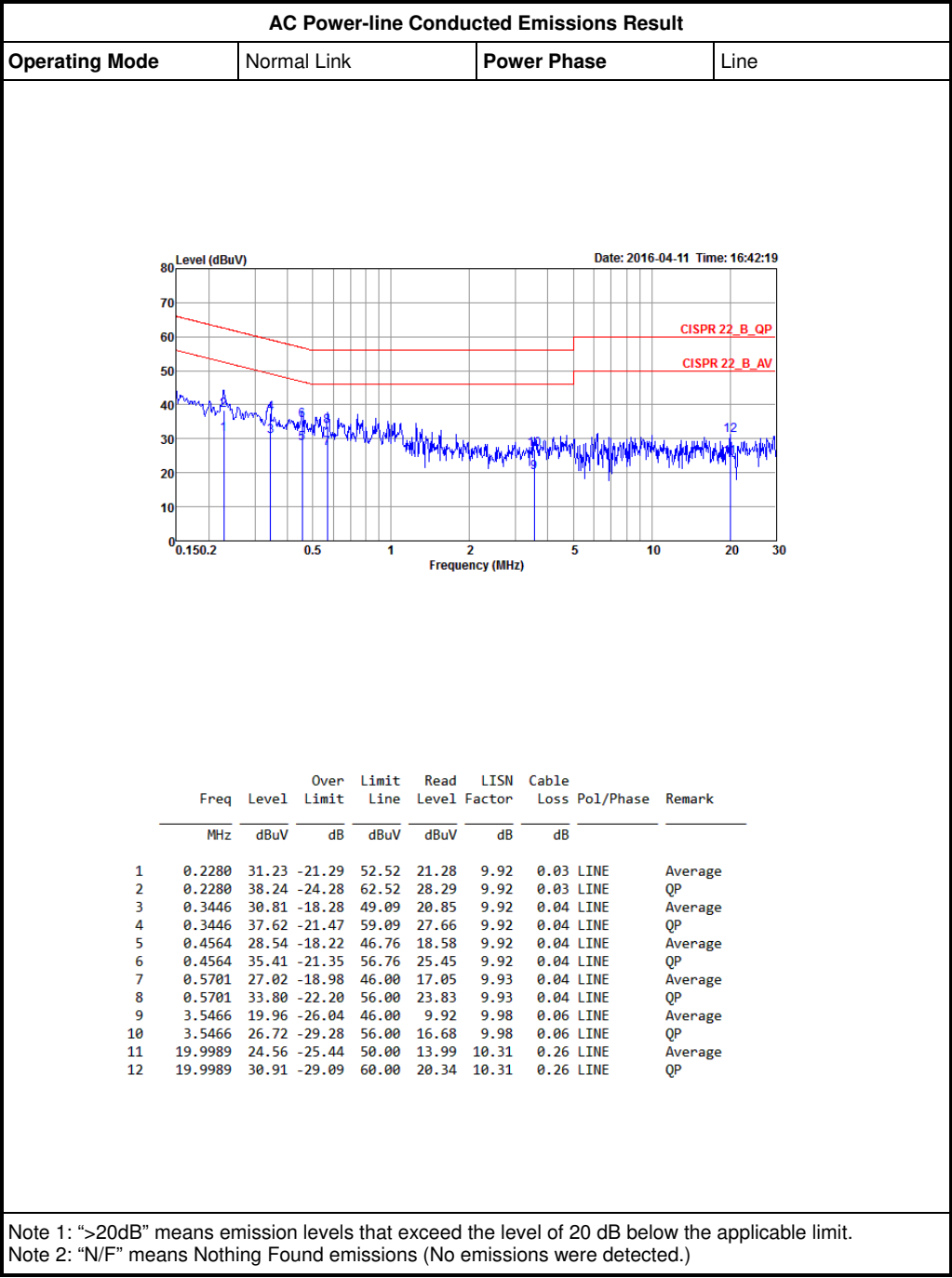
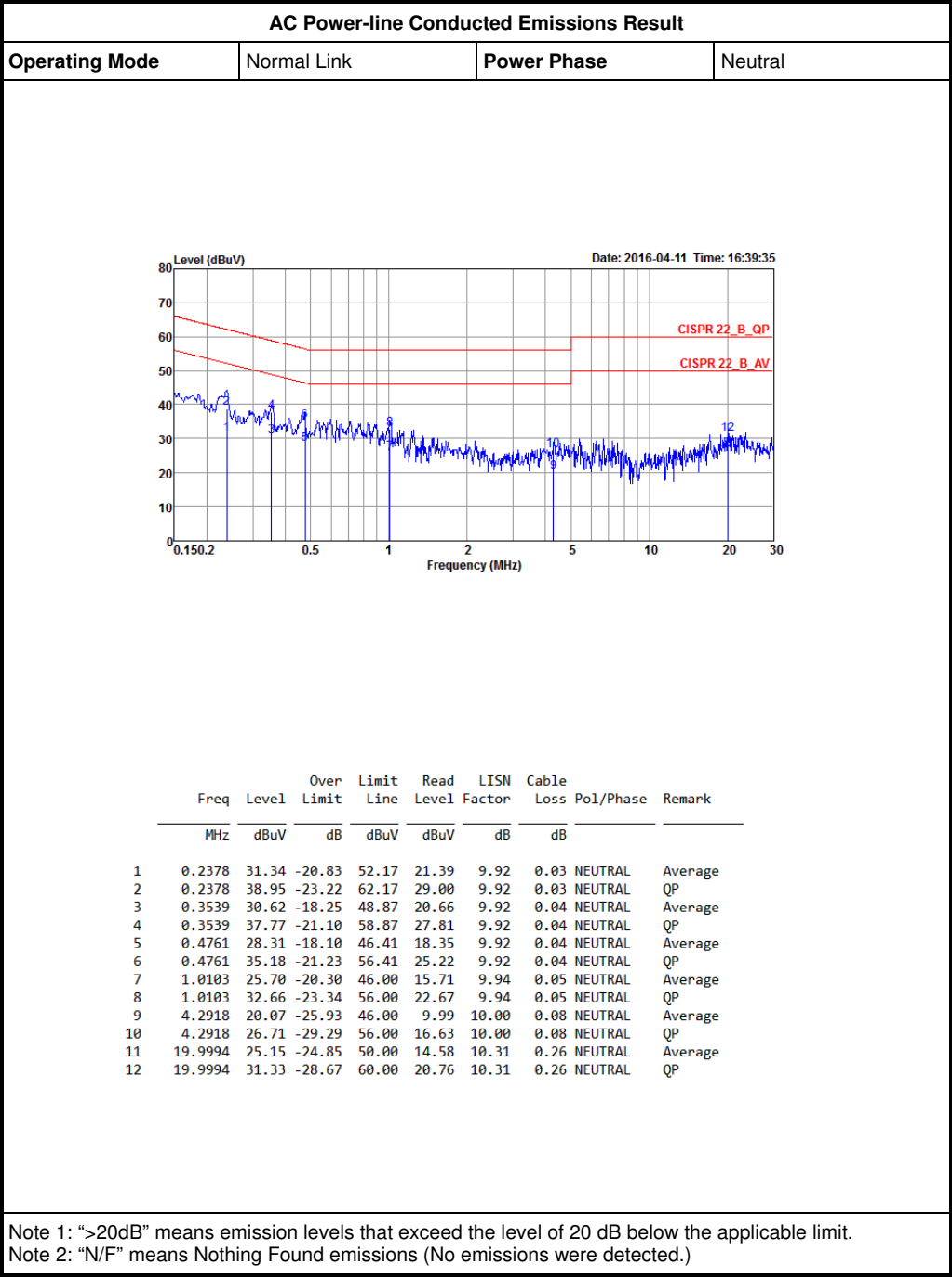
Report No. : FR4N1172-25AB

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.





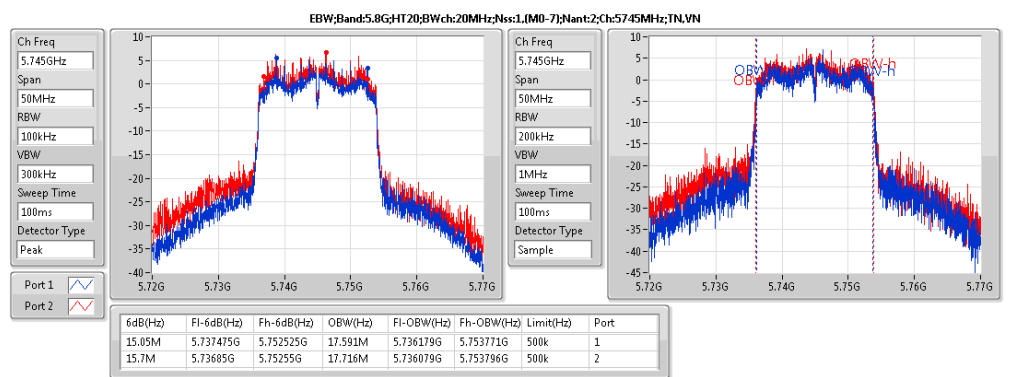
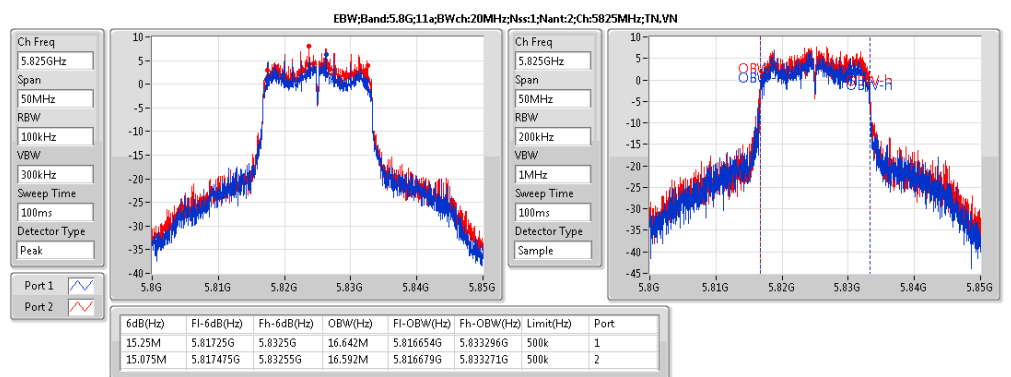
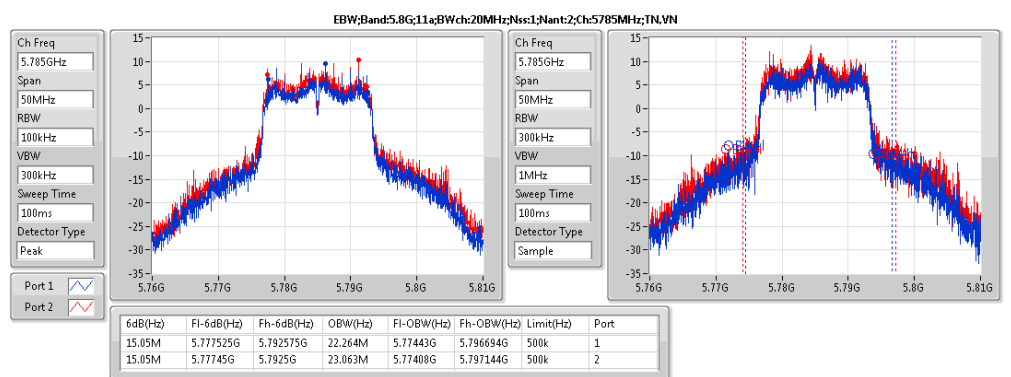
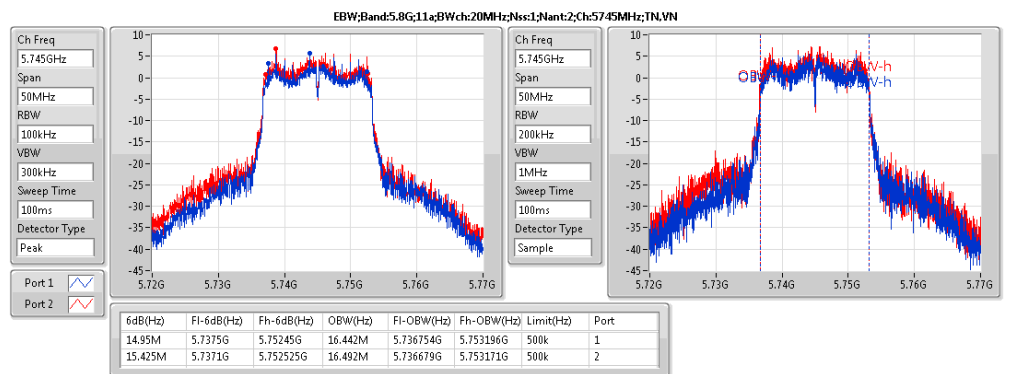
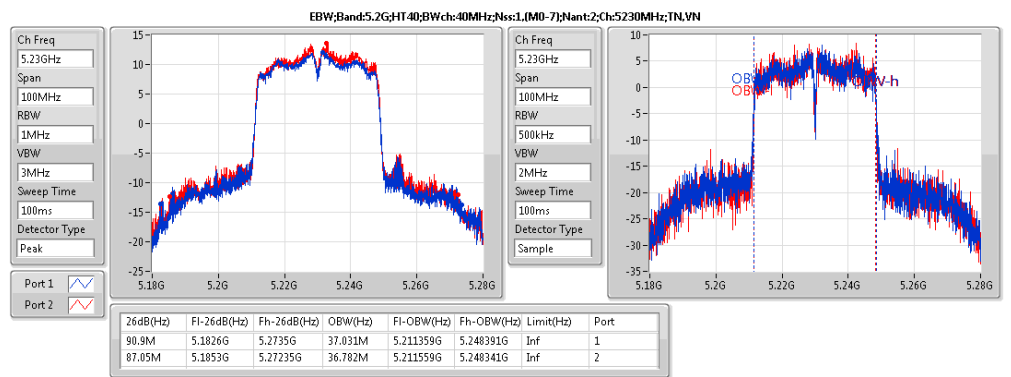
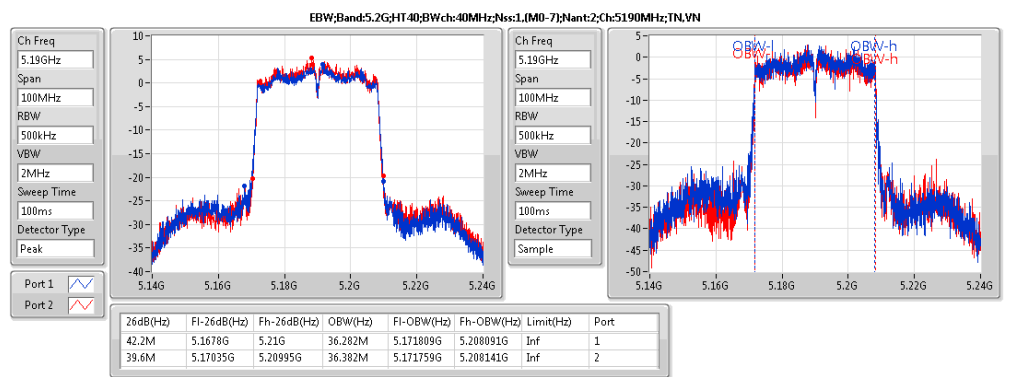
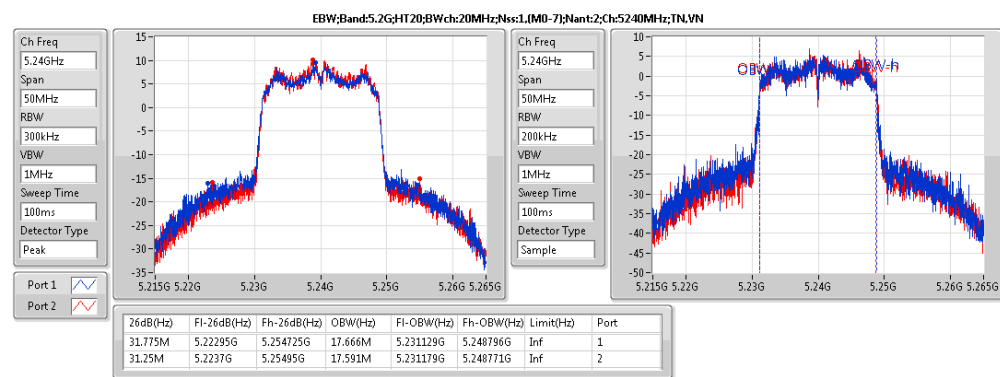
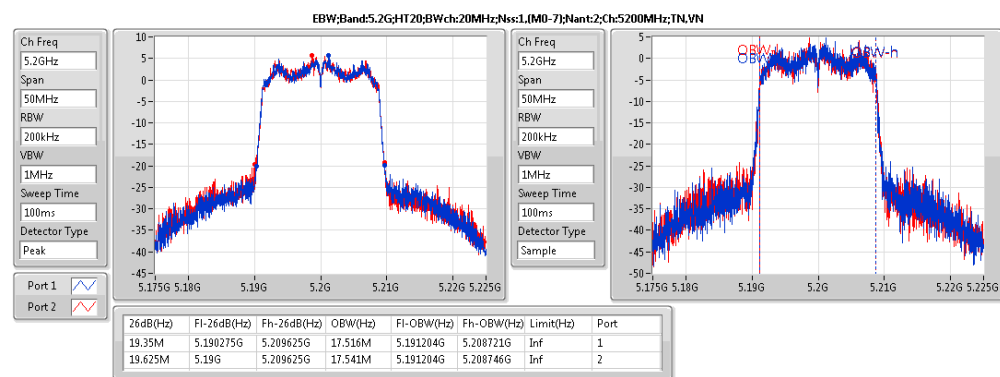
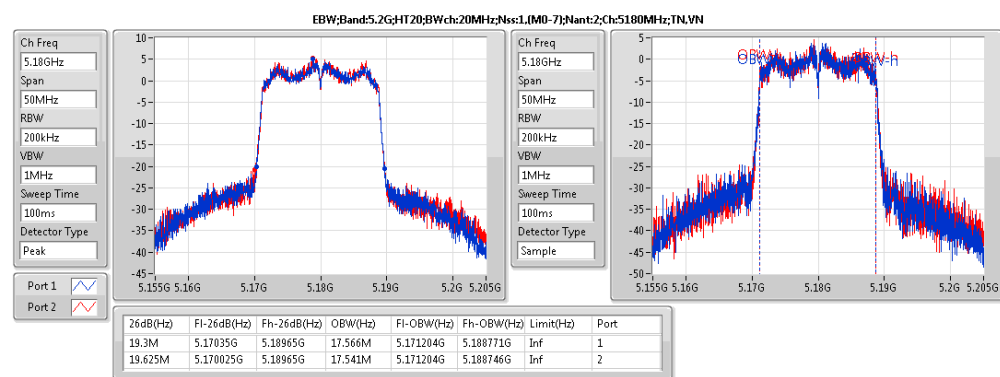
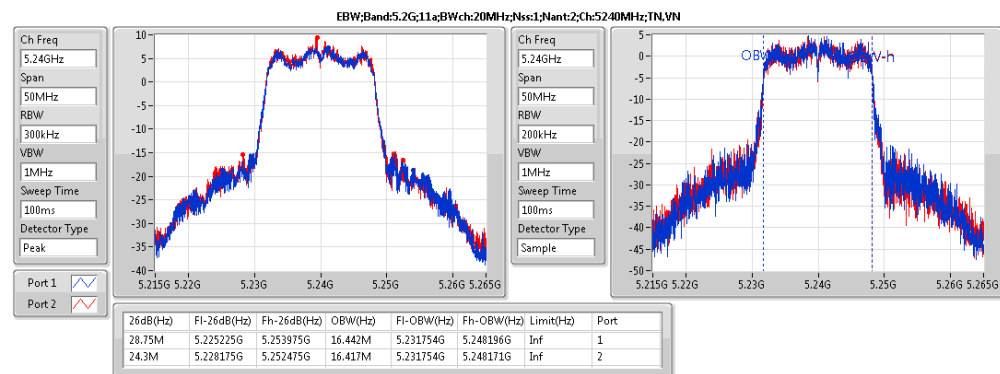
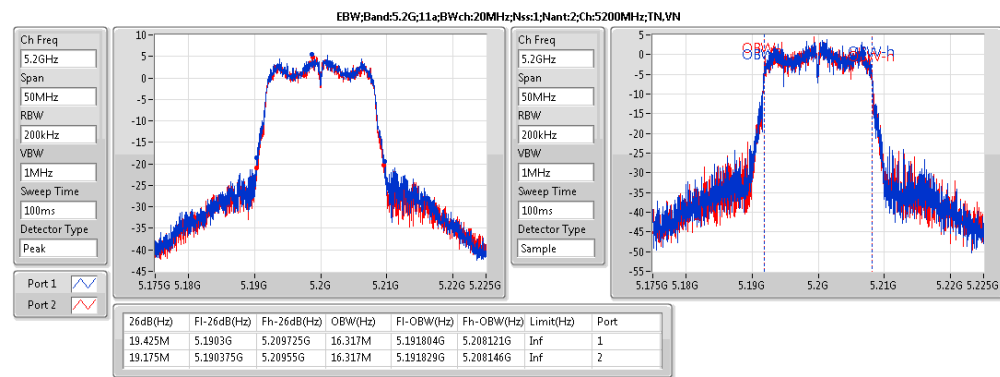
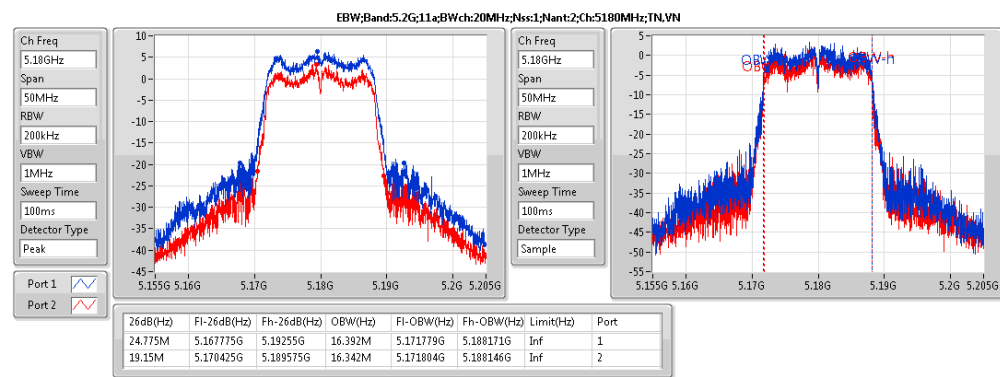
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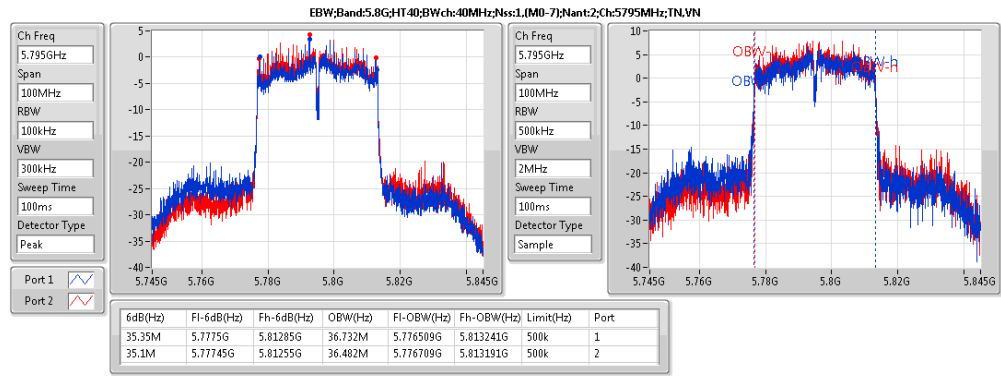
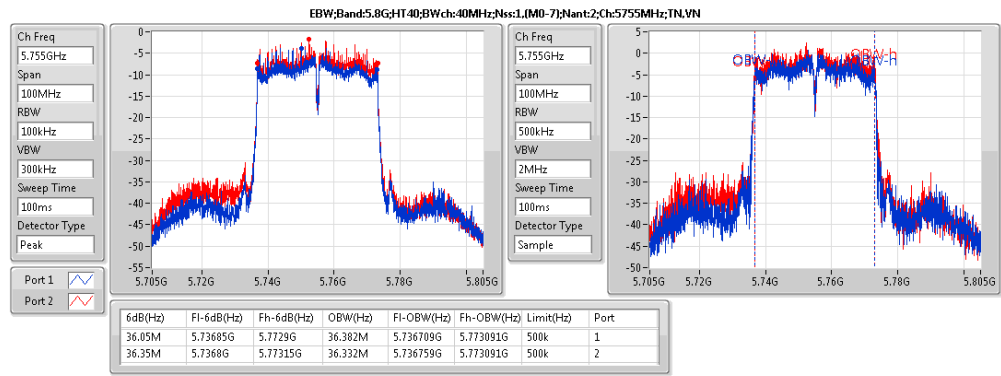
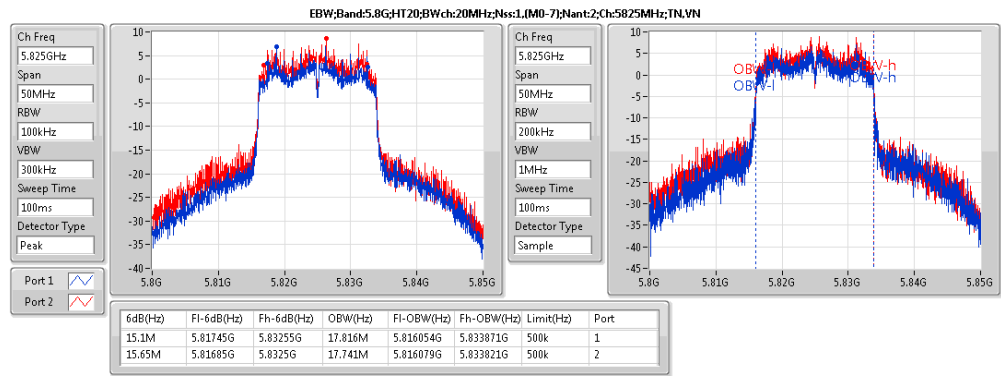
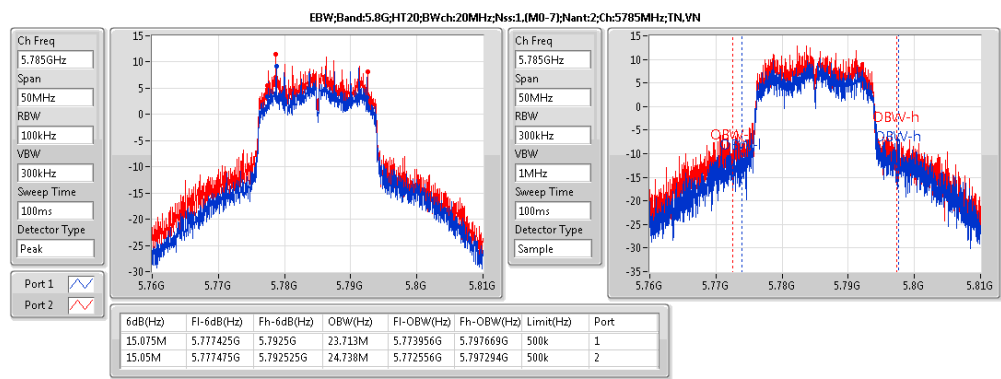
Mode	N dB (Hz)	OBW (Hz)	ITU-Code
5.2G;11a;20;1;2	28.75M	16.442M	16M4D1D
5.2G;HT20;20;1,(M0-15);2	31.775M	17.666M	17M7D1D
5.2G;HT40;40;1,(M0-15);2	90.9M	37.031M	37M0D1D
5.8G;11a;20;1;2	14.95M	23.063M	23M1D1D
5.8G;HT20;20;1,(M0-15);2	15.05M	24.738M	24M7D1D
5.8G;HT40;40;1,(M0-15);2	35.1M	36.732M	36M7D1D



Result

Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)
5.2G;11a;20;1;2;5180;L;TN,VN	Pass	Inf	24.775M	16.392M	19.15M	16.342M
5.2G;11a;20;1;2;5200;M;TN,VN	Pass	Inf	19.425M	16.317M	19.175M	16.317M
5.2G;11a;20;1;2;5240;H;TN,VN	Pass	Inf	28.75M	16.442M	24.3M	16.417M
5.2G;HT20;20;1,(M0-15);2;5180;L;TN,VN	Pass	Inf	19.3M	17.566M	19.625M	17.541M
5.2G;HT20;20;1,(M0-15);2;5200;M;TN,VN	Pass	Inf	19.35M	17.516M	19.625M	17.541M
5.2G;HT20;20;1,(M0-15);2;5240;H;TN,VN	Pass	Inf	31.775M	17.666M	31.25M	17.591M
5.2G;HT40;40;1,(M0-15);2;5190;L;TN,VN	Pass	Inf	42.2M	36.282M	39.6M	36.382M
5.2G;HT40;40;1,(M0-15);2;5230;H;TN,VN	Pass	Inf	90.9M	37.031M	87.05M	36.782M
5.8G;11a;20;1;2;5745;L;TN,VN	Pass	500k	14.95M	16.442M	15.425M	16.492M
5.8G;11a;20;1;2;5785;M;TN,VN	Pass	500k	15.05M	22.264M	15.05M	23.063M
5.8G;11a;20;1;2;5825;H;TN,VN	Pass	500k	15.25M	16.642M	15.075M	16.592M
5.8G;HT20;20;1,(M0-15);2;5745;L;TN,VN	Pass	500k	15.05M	17.591M	15.7M	17.716M
5.8G;HT20;20;1,(M0-15);2;5785;M;TN,VN	Pass	500k	15.075M	23.713M	15.05M	24.738M
5.8G;HT20;20;1,(M0-15);2;5825;H;TN,VN	Pass	500k	15.1M	17.816M	15.65M	17.741M
5.8G;HT40;40;1,(M0-15);2;5755;L;TN,VN	Pass	500k	36.05M	36.382M	36.35M	36.332M
5.8G;HT40;40;1,(M0-15);2;5795;H;TN,VN	Pass	500k	35.35M	36.732M	35.1M	36.482M







Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;20;1;2	19.36	0.0863	22.42	0.17458
5.2G;HT20;20;1,(M0-15);2	20.27	0.10641	23.33	0.21528
5.2G;HT40;40;1,(M0-15);2	21.06	0.12764	24.12	0.25823
5.8G;11a;20;1;2	23.76	0.23768	26.82	0.48084
5.8G;HT20;20;1,(M0-15);2	23.94	0.24774	27.00	0.50119
5.8G;HT40;40;1,(M0-15);2	20.06	0.10139	23.12	0.20512



Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)
5.2G;11a;20;1;2;5180;L;TN,VN	Pass	3.06	20.18	36.00	17.12	30.00	13.14	14.89
5.2G;11a;20;1;2;5200;M;TN,VN	Pass	3.06	20.96	36.00	17.90	30.00	14.78	14.99
5.2G;11a;20;1;2;5240;H;TN,VN	Pass	3.06	22.42	36.00	19.36	30.00	16.43	16.28
5.2G;HT20;20;1,(M0-15);2;5180;L;TN,VN	Pass	3.06	20.66	36.00	17.60	30.00	15.04	14.08
5.2G;HT20;20;1,(M0-15);2;5200;M;TN,VN	Pass	3.06	21.38	36.00	18.32	30.00	15.49	15.13
5.2G;HT20;20;1,(M0-15);2;5240;H;TN,VN	Pass	3.06	23.33	36.00	20.27	30.00	17.39	17.13
5.2G;HT40;40;1,(M0-15);2;5190;L;TN,VN	Pass	3.06	19.16	36.00	16.10	30.00	13.18	13.00
5.2G;HT40;40;1,(M0-15);2;5230;H;TN,VN	Pass	3.06	24.12	36.00	21.06	30.00	18.05	18.05
5.8G;11a;20;1;2;5745;L;TN,VN	Pass	3.06	23.16	36.00	20.10	30.00	17.14	17.05
5.8G;11a;20;1;2;5785;M;TN,VN	Pass	3.06	26.82	36.00	23.76	30.00	19.78	21.55
5.8G;11a;20;1;2;5825;H;TN,VN	Pass	3.06	24.03	36.00	20.97	30.00	17.96	17.97
5.8G;HT20;20;1,(M0-15);2;5745;L;TN,VN	Pass	3.06	23.07	36.00	20.01	30.00	16.93	17.07
5.8G;HT20;20;1,(M0-15);2;5785;M;TN,VN	Pass	3.06	27.00	36.00	23.94	30.00	19.72	21.87
5.8G;HT20;20;1,(M0-15);2;5825;H;TN,VN	Pass	3.06	24.55	36.00	21.49	30.00	18.09	18.83
5.8G;HT40;40;1,(M0-15);2;5755;L;TN,VN	Pass	3.06	17.87	36.00	14.81	30.00	11.06	12.43
5.8G;HT40;40;1,(M0-15);2;5795;H;TN,VN	Pass	3.06	23.12	36.00	20.06	30.00	17.13	16.97



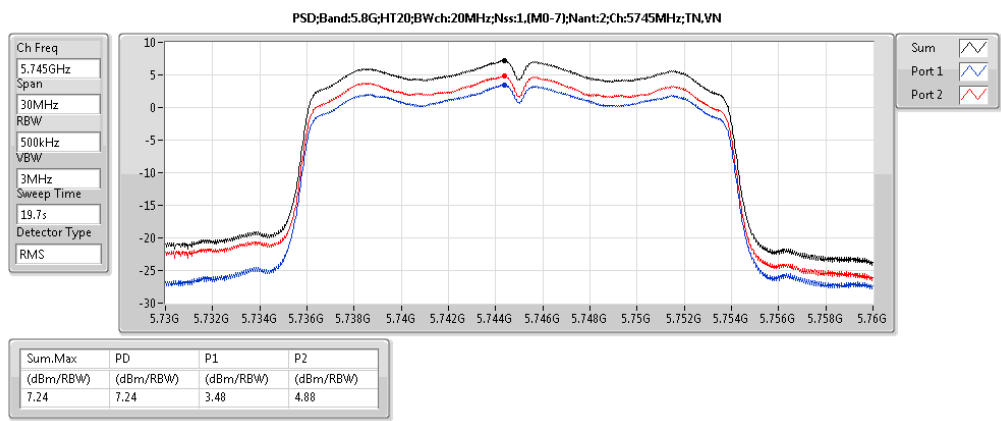
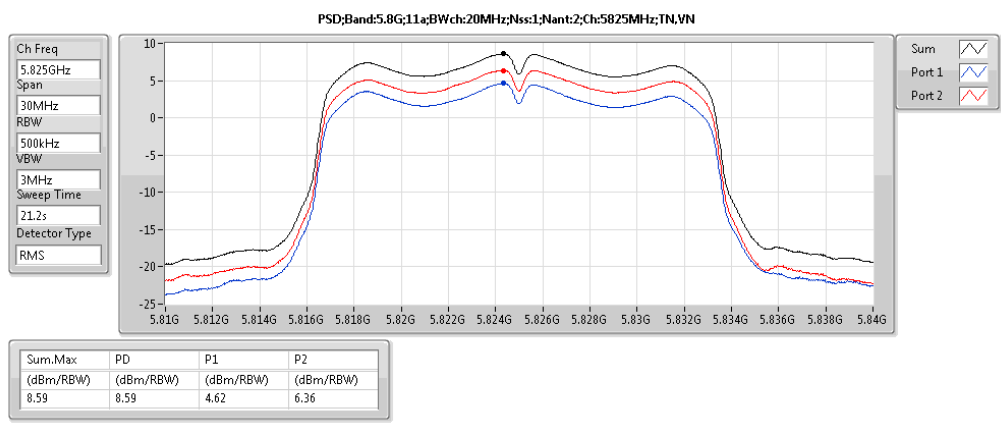
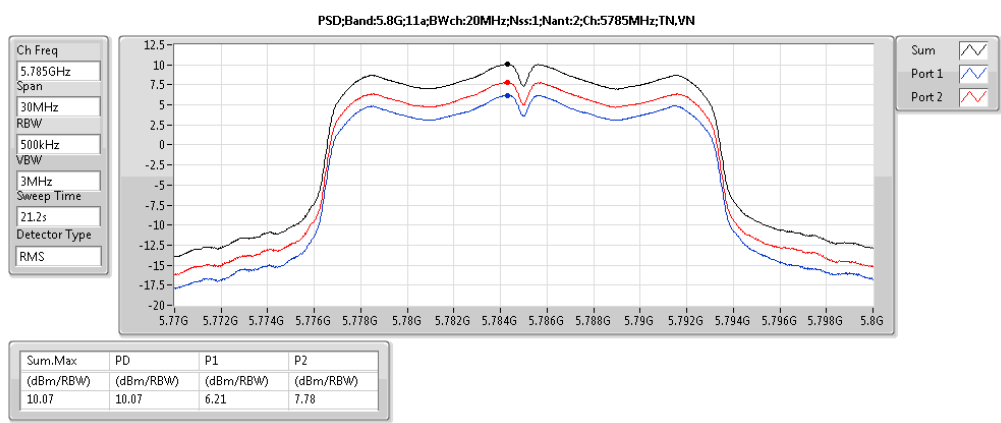
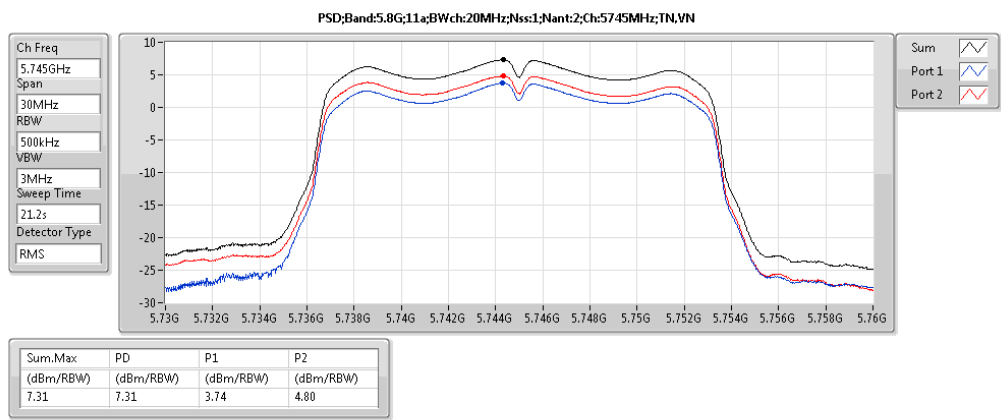
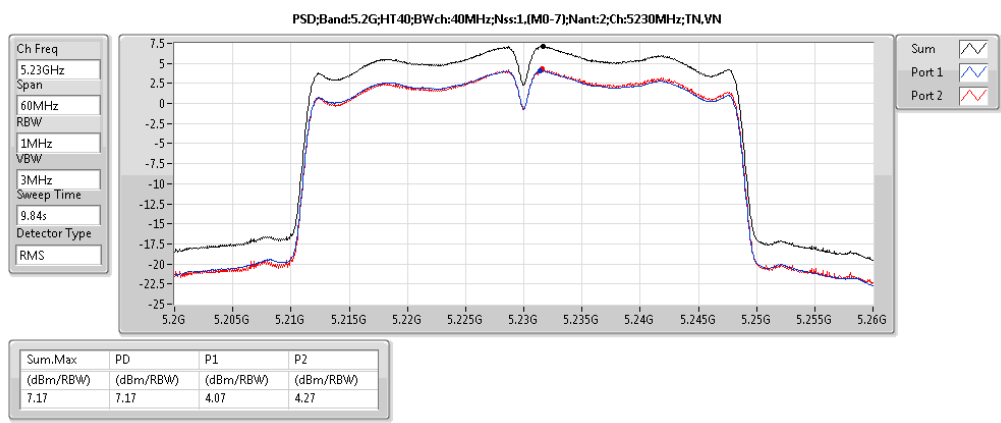
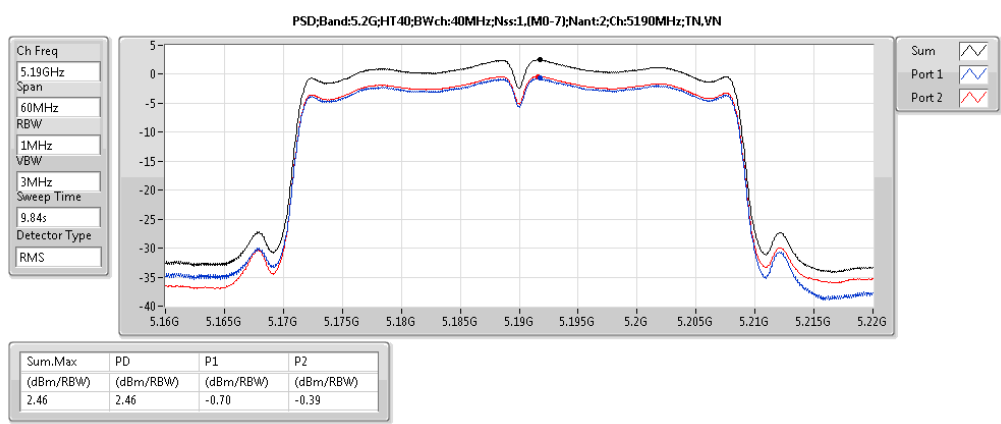
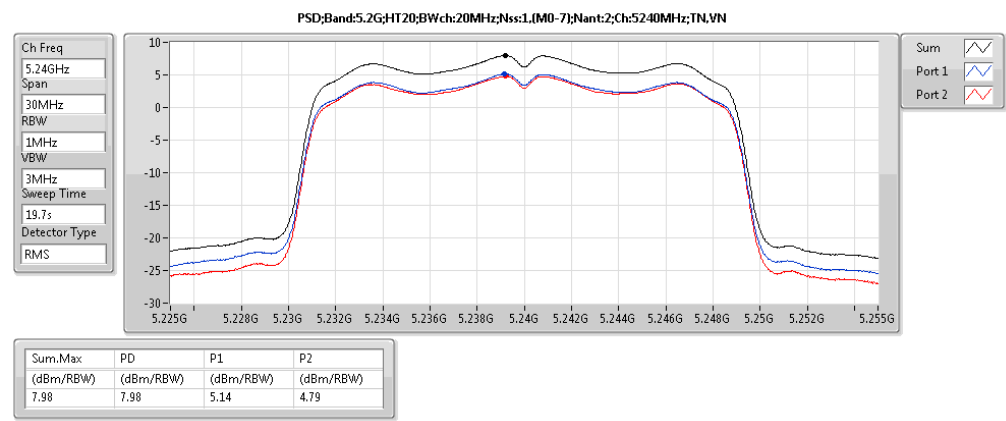
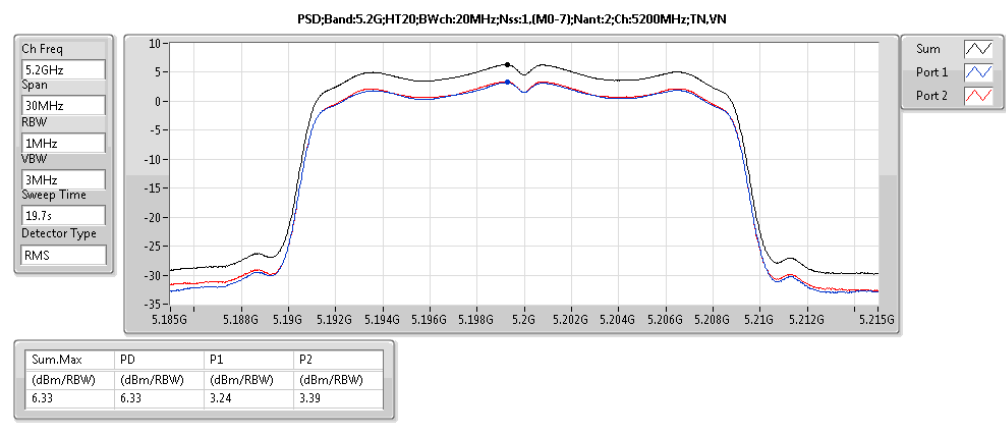
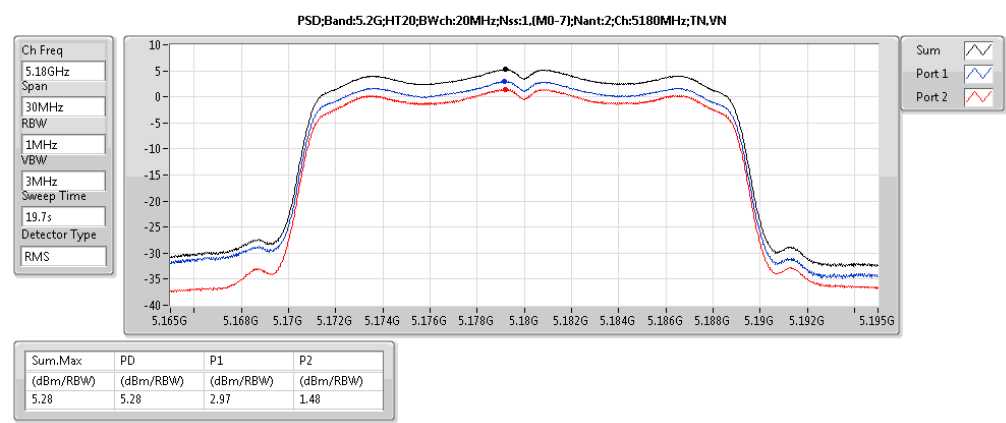
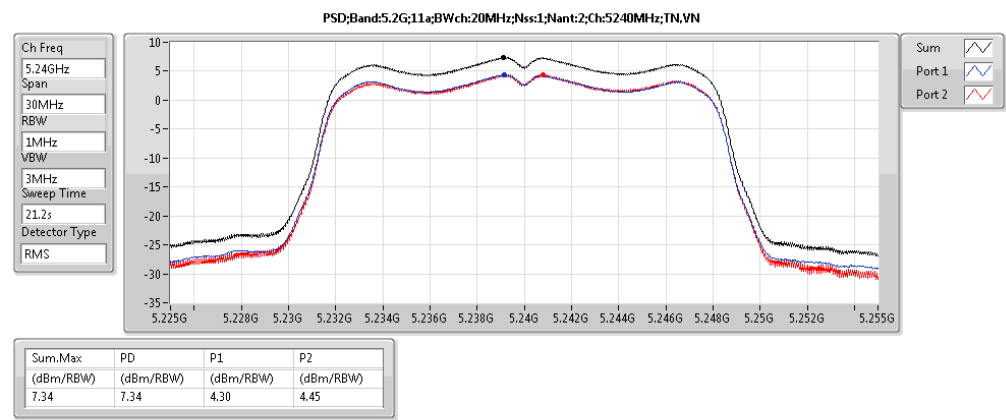
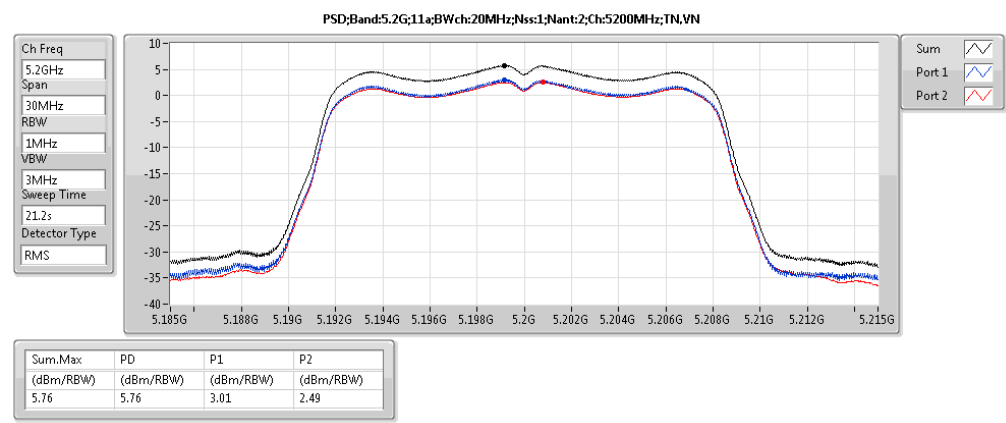
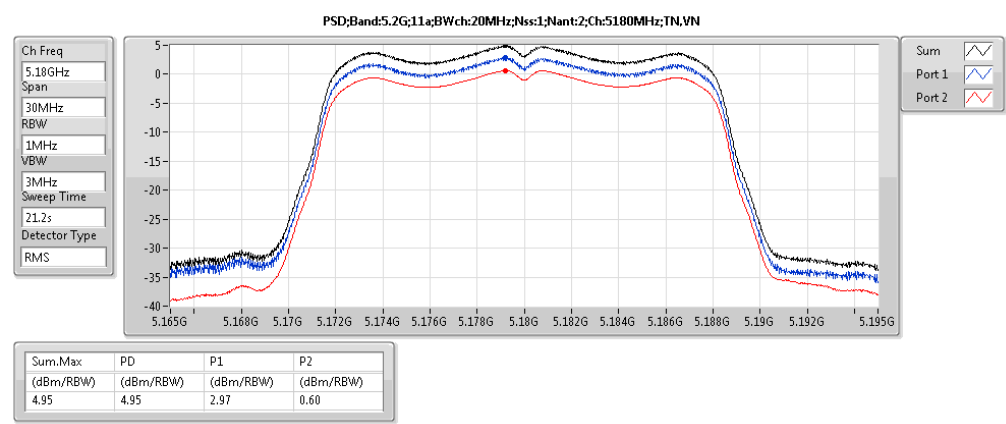
Summary

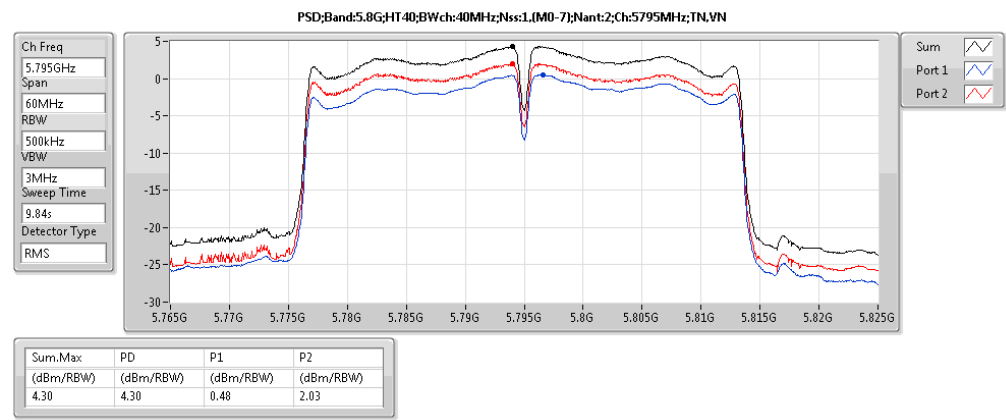
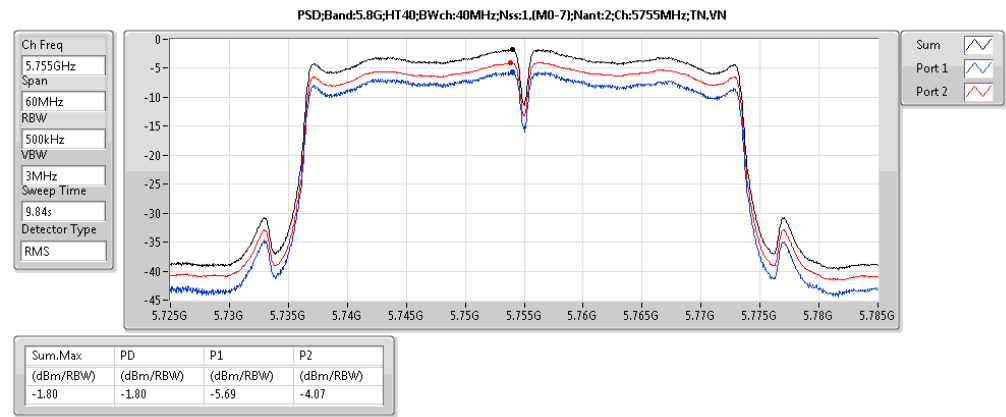
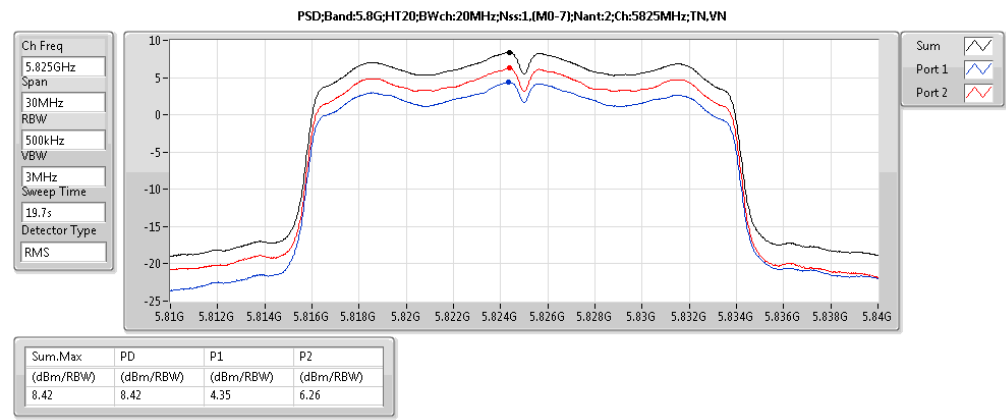
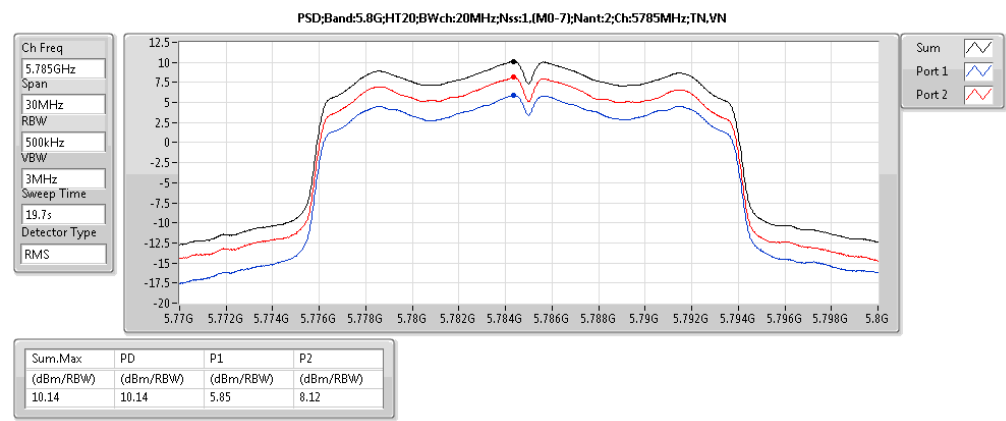
Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;20;1;2	7.34	13.29
5.2G;HT20;20;1,(M0-15);2	7.98	13.92
5.2G;HT40;40;1,(M0-15);2	7.17	13.12
5.8G;11a;20;1;2	10.07	16.02
5.8G;HT20;20;1,(M0-15);2	10.14	16.09
5.8G;HT40;40;1,(M0-15);2	4.30	10.25

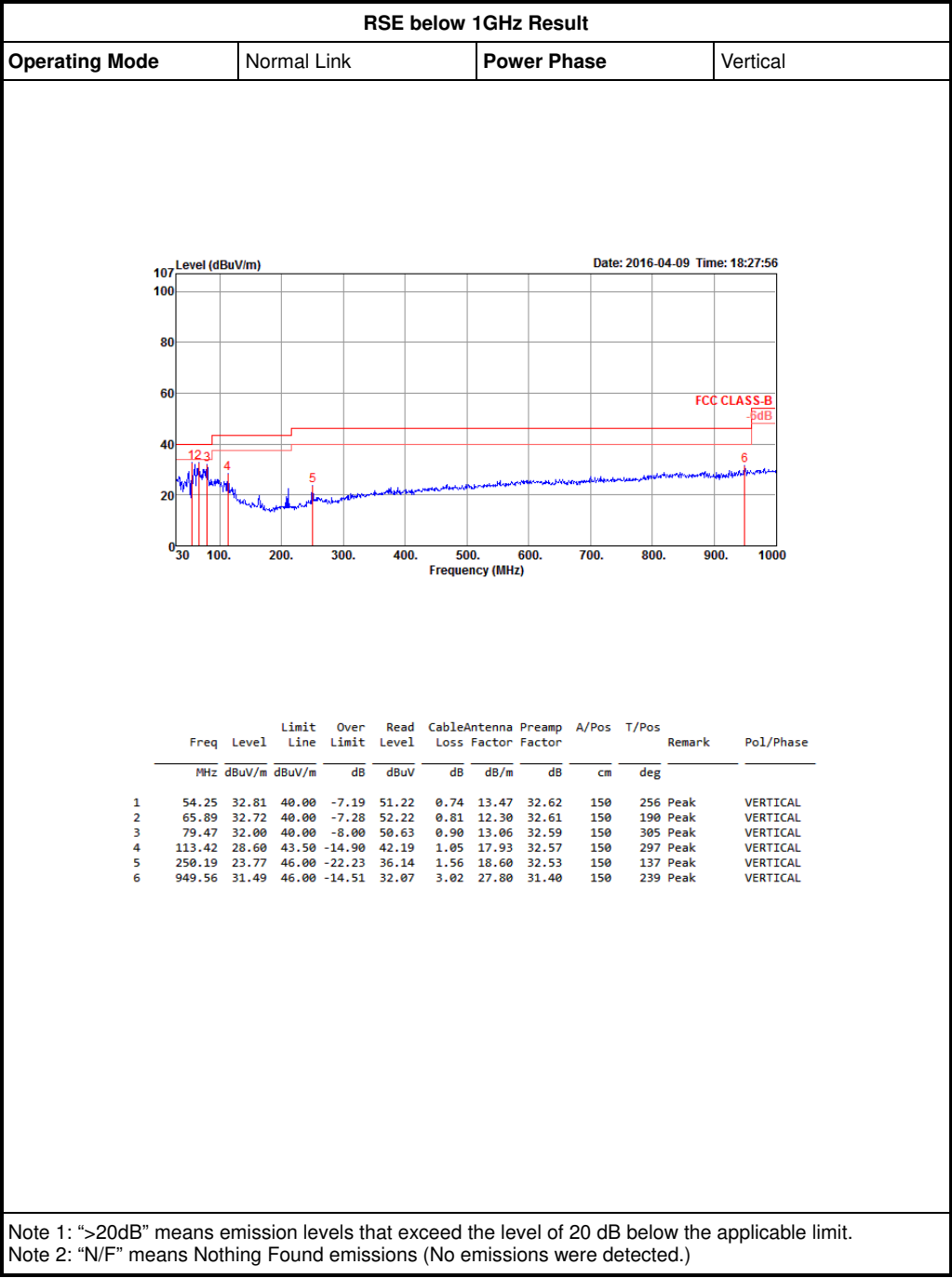
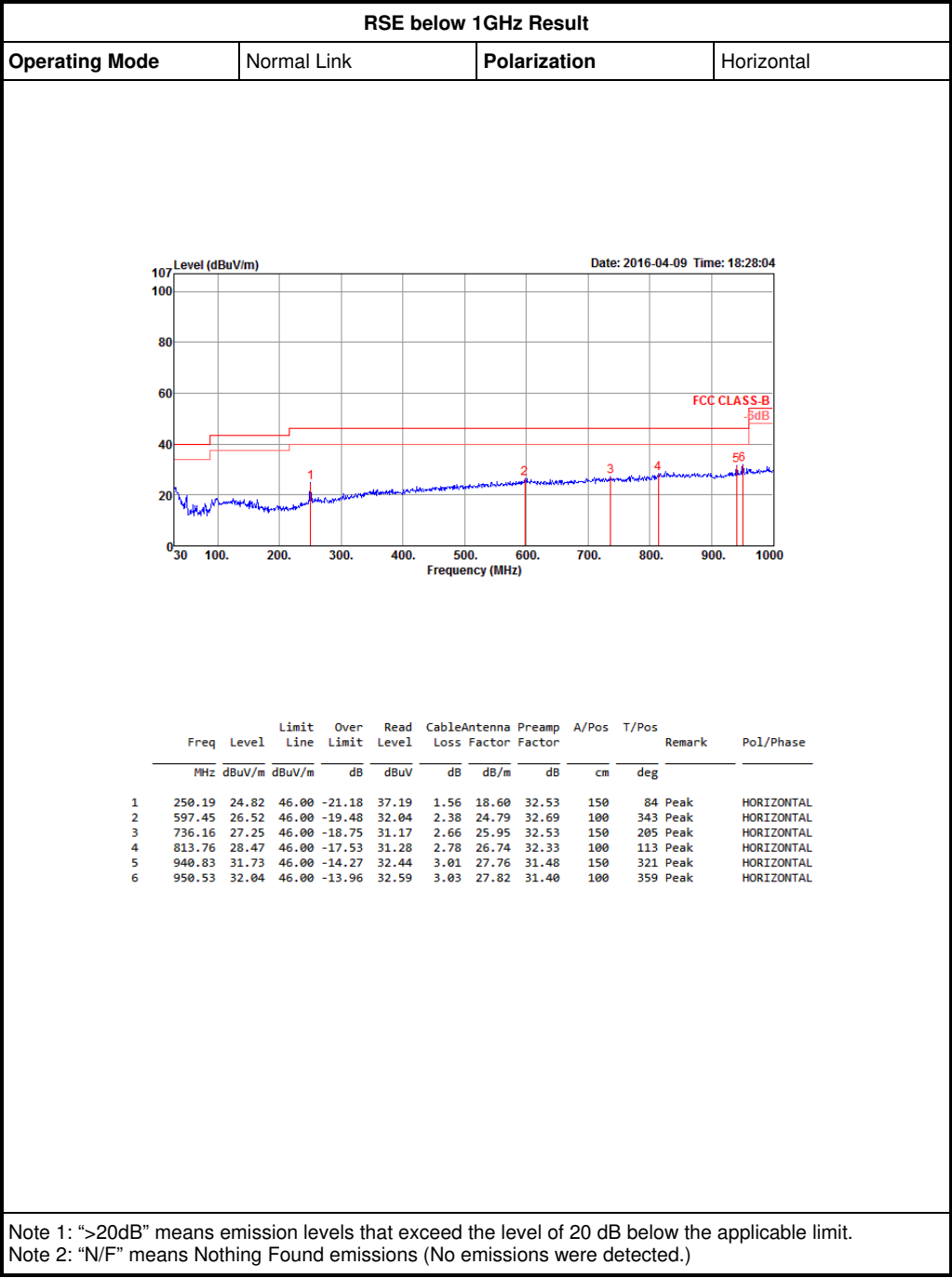


Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)
5.2G;11a;20;1;2;5180;L;TN,VN	Pass	1M	1M	0.00	5.95	4.95	4.95	17.00	10.90	23.00	2.97	0.60
5.2G;11a;20;1;2;5200;M;TN,VN	Pass	1M	1M	0.00	5.95	5.76	5.76	17.00	11.71	23.00	3.01	2.49
5.2G;11a;20;1;2;5240;H;TN,VN	Pass	1M	1M	0.00	5.95	7.34	7.34	17.00	13.29	23.00	4.30	4.45
5.2G;HT20;20;1,(M0-15);2;5180;L;TN,VN	Pass	1M	1M	0.00	5.95	5.28	5.28	17.00	11.23	23.00	2.97	1.48
5.2G;HT20;20;1,(M0-15);2;5200;M;TN,VN	Pass	1M	1M	0.00	5.95	6.33	6.33	17.00	12.27	23.00	3.24	3.39
5.2G;HT20;20;1,(M0-15);2;5240;H;TN,VN	Pass	1M	1M	0.00	5.95	7.98	7.98	17.00	13.92	23.00	5.14	4.79
5.2G;HT40;40;1,(M0-15);2;5190;L;TN,VN	Pass	1M	1M	0.00	5.95	2.46	2.46	17.00	8.41	23.00	-0.70	-0.39
5.2G;HT40;40;1,(M0-15);2;5230;H;TN,VN	Pass	1M	1M	0.00	5.95	7.17	7.17	17.00	13.12	23.00	4.07	4.27
5.8G;11a;20;1;2;5745;L;TN,VN	Pass	500k	500k	0.00	5.95	7.31	7.31	30.00	13.26	36.00	3.74	4.80
5.8G;11a;20;1;2;5785;M;TN,VN	Pass	500k	500k	0.00	5.95	10.07	10.07	30.00	16.02	36.00	6.21	7.78
5.8G;11a;20;1;2;5825;H;TN,VN	Pass	500k	500k	0.00	5.95	8.59	8.59	30.00	14.53	36.00	4.62	6.36
5.8G;HT20;20;1,(M0-15);2;5745;L;TN,VN	Pass	500k	500k	0.00	5.95	7.24	7.24	30.00	13.19	36.00	3.48	4.88
5.8G;HT20;20;1,(M0-15);2;5785;M;TN,VN	Pass	500k	500k	0.00	5.95	10.14	10.14	30.00	16.09	36.00	5.85	8.12
5.8G;HT20;20;1,(M0-15);2;5825;H;TN,VN	Pass	500k	500k	0.00	5.95	8.42	8.42	30.00	14.36	36.00	4.35	6.26
5.8G;HT40;40;1,(M0-15);2;5755;L;TN,VN	Pass	500k	500k	0.00	5.95	-1.80	-1.80	30.00	4.14	36.00	-5.69	-4.07
5.8G;HT40;40;1,(M0-15);2;5795;H;TN,VN	Pass	500k	500k	0.00	5.95	4.30	4.30	30.00	10.25	36.00	0.48	2.03









Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;HT40;40;1;(M0-15);2;5190;L;TX	Pass	AV	5.1488G	52.70	54.00	-1.30	3.69	3	H	265	1.95	-
5.8G;HT40;40;1;(M0-15);2;5755;L;TX	Pass	AV	5.7148G	53.00	54.00	-1.00	4.55	3	H	218	1.96	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	5.1488G	46.83	54.00	-7.17	3.69	3	H	248	1.99	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	5.1816G	94.38	Inf	-Inf	3.74	3	H	248	1.99	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	15.54032G	47.02	54.00	-6.98	15.68	3	H	8	1.53	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.1472G	63.05	74.00	-10.95	3.69	3	H	248	1.99	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.1812G	103.91	Inf	-Inf	3.74	3	H	248	1.99	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	15.53844G	60.87	74.00	-13.13	15.68	3	H	8	1.53	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	5.1496G	46.51	54.00	-7.49	3.69	3	V	9	1.79	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	5.1808G	93.65	Inf	-Inf	3.74	3	V	9	1.79	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	15.53768G	50.86	54.00	-3.14	15.69	3	V	236	1.80	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.1444G	62.13	74.00	-11.87	3.68	3	V	9	1.79	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.1808G	102.79	Inf	-Inf	3.74	3	V	9	1.79	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	15.54712G	63.60	74.00	-10.40	15.65	3	V	236	1.80	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.1268G	43.32	54.00	-10.68	3.65	3	H	260	1.98	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.2016G	95.87	Inf	-Inf	3.77	3	H	260	1.98	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	15.59788G	47.64	54.00	-6.36	15.47	3	H	255	1.71	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.1476G	56.00	74.00	-18.00	3.69	3	H	260	1.98	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.2064G	105.61	Inf	-Inf	3.78	3	H	260	1.98	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	15.60112G	60.45	74.00	-13.55	15.45	3	H	255	1.71	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.1244G	42.99	54.00	-11.01	3.65	3	V	2	1.75	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.2008G	94.60	Inf	-Inf	3.77	3	V	2	1.75	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	15.59748G	50.64	54.00	-3.36	15.47	3	V	238	1.77	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.1432G	56.25	74.00	-17.75	3.68	3	V	2	1.75	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.2008G	103.65	Inf	-Inf	3.77	3	V	2	1.75	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	15.59696G	65.63	74.00	-8.37	15.47	3	V	238	1.77	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.1472G	42.62	54.00	-11.38	3.69	3	H	251	1.98	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.2416G	98.05	Inf	-Inf	3.83	3	H	251	1.98	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	15.71788G	47.31	54.00	-6.69	15.03	3	H	236	1.76	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.1468G	55.20	74.00	-18.80	3.69	3	H	251	1.98	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.246G	107.84	Inf	-Inf	3.84	3	H	251	1.98	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	15.71844G	60.18	74.00	-13.82	15.03	3	H	236	1.76	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.1408G	42.62	54.00	-11.38	3.68	3	V	359	1.91	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.2408G	97.28	Inf	-Inf	3.83	3	V	359	1.91	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	15.71756G	50.65	54.00	-3.35	15.03	3	V	238	1.81	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.1456G	54.71	74.00	-19.29	3.68	3	V	359	1.91	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.2408G	106.32	Inf	-Inf	3.83	3	V	359	1.91	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	15.71276G	64.39	74.00	-9.61	15.05	3	V	238	1.81	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	5.715G	51.52	54.00	-2.48	4.55	3	H	213	1.96	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	5.7458G	97.55	Inf	-Inf	4.60	3	H	213	1.96	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	11.48872G	41.86	54.00	-12.14	13.48	3	H	256	1.90	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.7122G	67.52	74.00	-6.48	4.55	3	H	213	1.96	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.7458G	107.11	Inf	-Inf	4.60	3	H	213	1.96	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	11.4898G	54.35	74.00	-19.65	13.48	3	H	256	1.90	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	5.7134G	52.47	54.00	-1.53	4.55	3	V	243	1.73	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	5.715G	51.79	54.00	-2.21	4.55	3	V	243	1.73	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	5.7438G	96.81	Inf	-Inf	4.60	3	V	243	1.73	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	11.49164G	46.72	54.00	-7.28	13.48	3	V	259	1.84	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.7134G	69.13	74.00	-4.87	4.55	3	V	243	1.73	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.7238G	77.10	78.20	-1.10	4.57	3	V	243	1.73	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.7382G	106.05	Inf	-Inf	4.59	3	V	243	1.73	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	11.48636G	60.07	74.00	-13.93	13.48	3	V	259	1.84	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.7114G	45.33	54.00	-8.67	4.55	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.715G	44.61	54.00	-9.39	4.55	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.7858G	101.60	Inf	-Inf	4.67	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.8506G	46.90	Inf	-Inf	4.77	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.8606G	46.20	54.00	-7.80	4.78	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	11.56852G	46.33	54.00	-7.67	13.36	3	H	262	1.94	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.7114G	59.11	74.00	-14.89	4.55	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.7246G	62.69	78.20	-15.51	4.57	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.7858G	110.76	Inf	-Inf	4.67	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.8566G	61.79	78.20	-16.41	4.78	3	H	213	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.8606G	58.95	74.00	-15.05	4.78	3	H	213	1.95	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	11.56792G	59.84	74.00	-14.16	13.36	3	H	262	1.94	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.7122G	45.91	54.00	-8.09	4.55	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.715G	44.98	54.00	-9.02	4.55	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.7834G	100.19	Inf	-Inf	4.66	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.8578G	47.30	Inf	-Inf	4.78	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.8726G	45.78	54.00	-8.22	4.80	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	11.5712G	49.32	54.00	-4.68	13.36	3	V	263	2.01	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.713G	61.74	74.00	-12.26	4.55	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.7234G	62.86	78.20	-15.34	4.57	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.783G	110.28	Inf	-Inf	4.66	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.8566G	62.23	78.20	-15.97	4.78	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.8674G	58.70	74.00	-15.30	4.79	3	V	244	1.95	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	11.5664G	64.15	74.00	-9.85	13.36	3	V	263	2.01	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.725G	43.96	Inf	-Inf	4.57	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.8258G	100.43	Inf	-Inf	4.73	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.851G	57.55	Inf	-Inf	4.77	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.8602G	52.62	54.00	-1.38	4.78	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	11.64816G	46.42	54.00	-7.58	13.24	3	H	270	1.96	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.725G	55.23	Inf	-Inf	4.57	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.8258G	109.38	Inf	-Inf	4.73	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.8506G	75.67	78.20	-2.53	4.77	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.8606G	66.08	74.00	-7.92	4.78	3	H	210	1.92	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	11.64796G	60.07	74.00	-13.93	13.24	3	H	270	1.96	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.725G	43.90	Inf	-Inf	4.57	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.823G	99.30	Inf	-Inf	4.72	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.8522G	57.95	Inf	-Inf	4.77	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.8614G	52.98	54.00	-1.02	4.78	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	11.65052G	49.00	54.00	-5.00	13.24	3	V	266	1.89	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.725G	56.09	Inf	-Inf	4.57	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.823G	108.56	Inf	-Inf	4.72	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.8526G	74.55	78.20	-3.65	4.77	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.8614G	67.02	74.00	-6.98	4.78	3	V	240	1.75	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	11.6508G	62.66	74.00	-11.34	13.24	3	V	266	1.89	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	AV	5.1496G	48.36	54.00	-5.64	3.69	3	H	268	1.99	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	AV	5.1788G	94.63	Inf	-Inf	3.74	3	H	268	1.99	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	AV	15.53856G	48.39	54.00	-5.61	15.68	3	H	192	1.81	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	PK	5.1492G	65.52	74.00	-8.48	3.69	3	H	268	1.99	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	PK	5.1788G	104.16	Inf	-Inf	3.74	3	H	268	1.99	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	PK	15.54044G	60.55	74.00	-13.45	15.68	3	H	192	1.81	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	AV	5.1496G	47.25	54.00	-6.75	3.69	3	V	1	1.77	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	AV	5.1804G	93.88	Inf	-Inf	3.74	3	V	1	1.77	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	AV	15.53828G	50.98	54.00	-3.02	15.68	3	V	238	1.80	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	PK	5.1496G	64.00	74.00	-10.00	3.69	3	V	1	1.77	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	PK	5.1804G	102.21	Inf	-Inf	3.74	3	V	1	1.77	-
5.2G;HT20;20;1;(M0-15);2;5180;L;TX	Pass	PK	15.5388G	65.39	74.00	-8.61	15.68	3	V	238	1.80	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	AV	5.1104G	43.13	54.00	-10.87	3.63	3	H	263	1.98	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	AV	5.1984G	94.63	Inf	-Inf	3.77	3	H	263	1.98	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	AV	15.60128G	47.75	54.00	-6.25	15.45	3	H	272	1.71	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	PK	5.128G	55.27	74.00	-18.73	3.66	3	H	263	1.98	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	PK	5.2012G	104.73	Inf	-Inf	3.77	3	H	263	1.98	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	PK	15.60168G	60.28	74.00	-13.72	15.45	3	H	272	1.71	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	AV	5.128G	43.18	54.00	-10.82	3.66	3	V	0	1.75	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	AV	5.2008G	94.15	Inf	-Inf	3.77	3	V	0	1.75	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	AV	15.60112G	50.83	54.00	-3.17	15.45	3	V	237	1.82	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	PK	5.1416G	55.92	74.00	-18.08	3.68	3	V	0	1.75	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	PK	5.2004G	102.10	Inf	-Inf	3.77	3	V	0	1.75	-
5.2G;HT20;20;1;(M0-15);2;5200;M;TX	Pass	PK	15.5986G	64.21	74.00	-9.79	15.46	3	V	237	1.82	-
5.2G;HT20;20;1;(M0-15);2;5240;H;TX	Pass	AV	5.1404G	43.89	54.00	-10.11	3.68	3	H	260	1.99	-
5.2G;HT20;20;1;(M0-15);2;5240;H;TX	Pass	AV	5.2388G	101.40	Inf	-Inf	3.83	3	H	260	1.99	-
5.2G;HT20;20;1;(M0-15);2;5240;H;TX	Pass	AV	15.71668G	46.70	54.00	-7.30	15.03	3	H	234	1.74	-
5.2G;HT20;20;1;(M0-15);2;5240;H;TX	Pass	PK	5.1404G	57.89	74.00	-16.11	3.68	3	H	260	1.99	-
5.2G;HT20;20;1;(M0-15);2;5240;H;TX	Pass	PK	5.2408G	110.80	Inf	-Inf	3.83	3	H	260	1.99	-



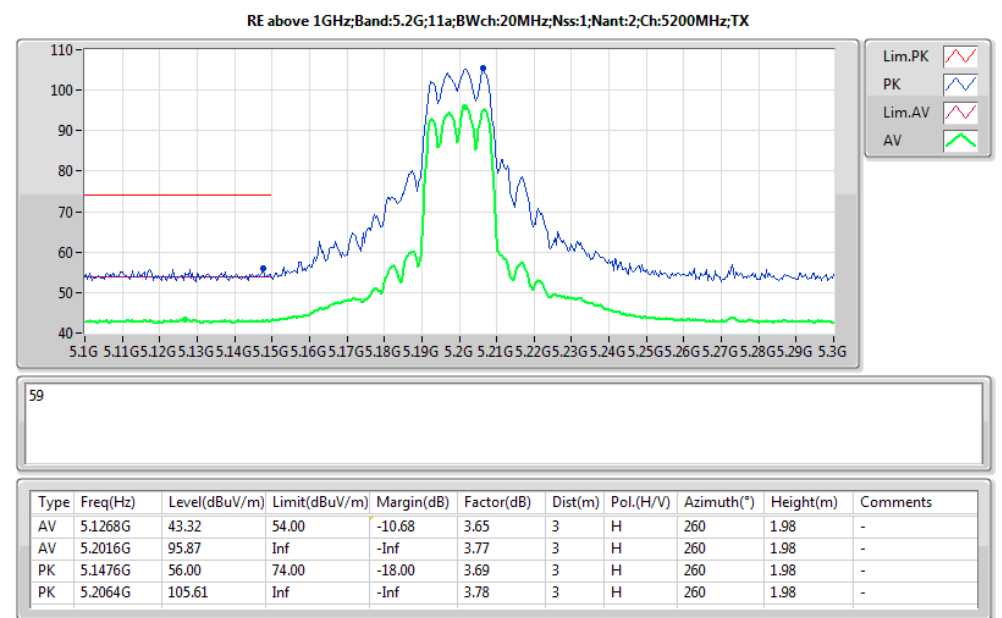
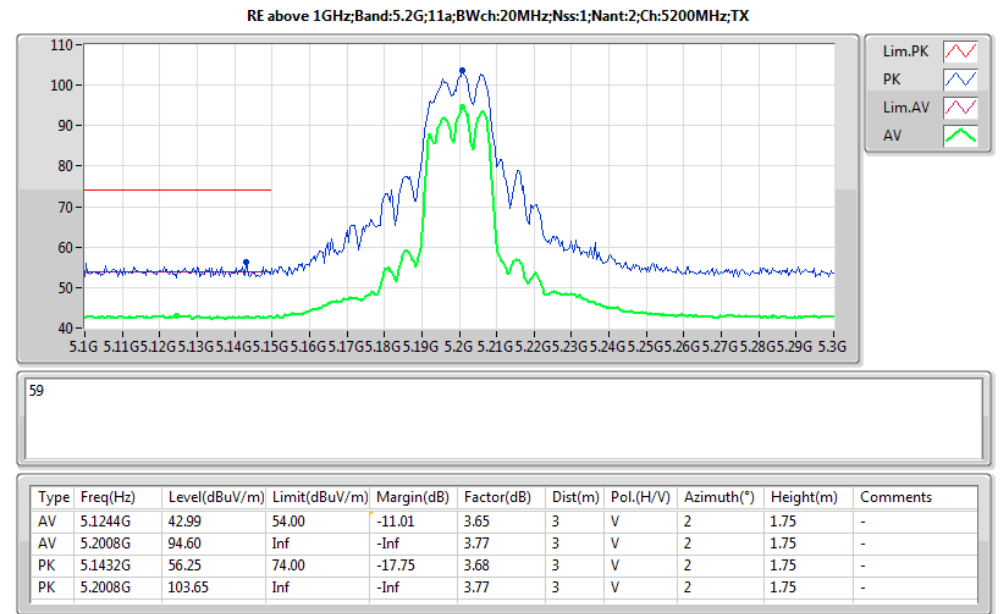
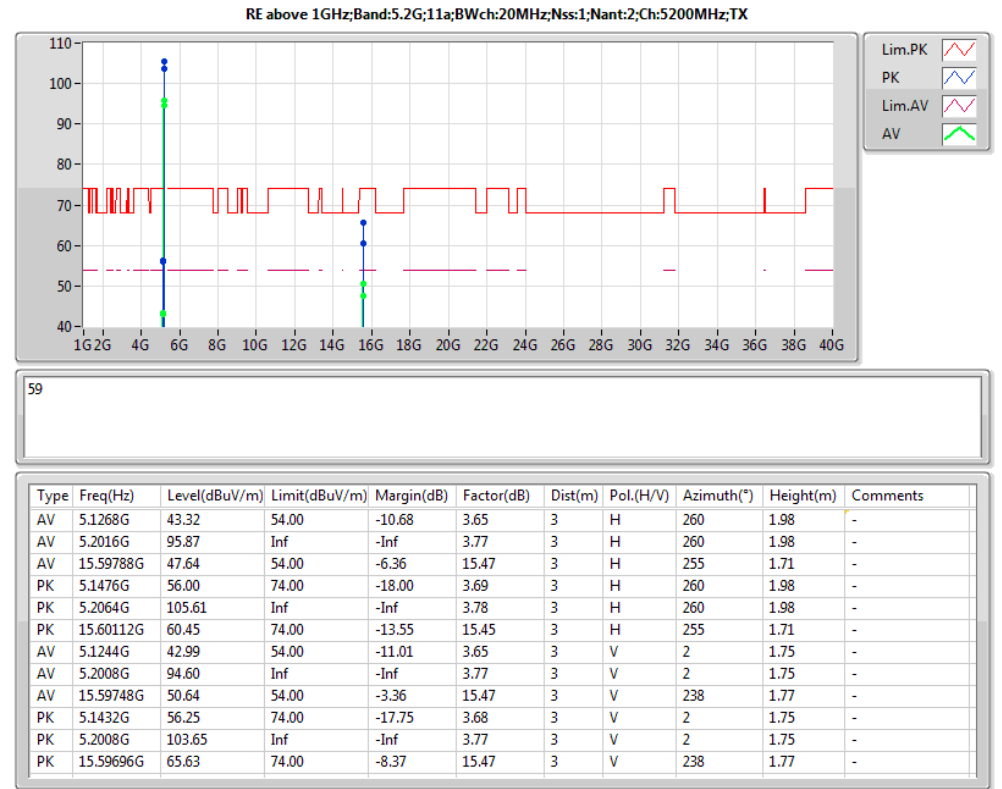
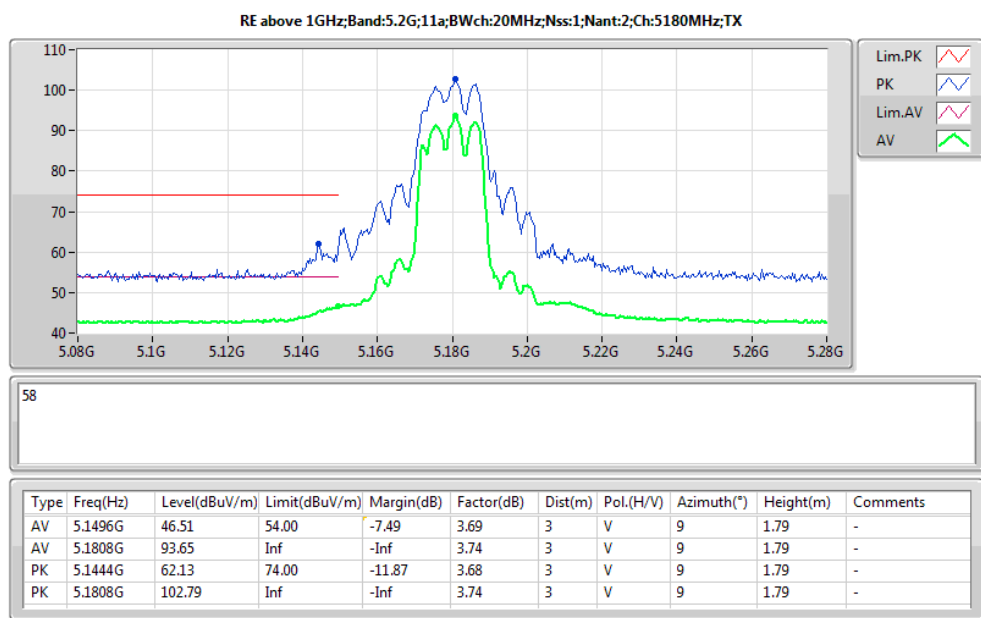
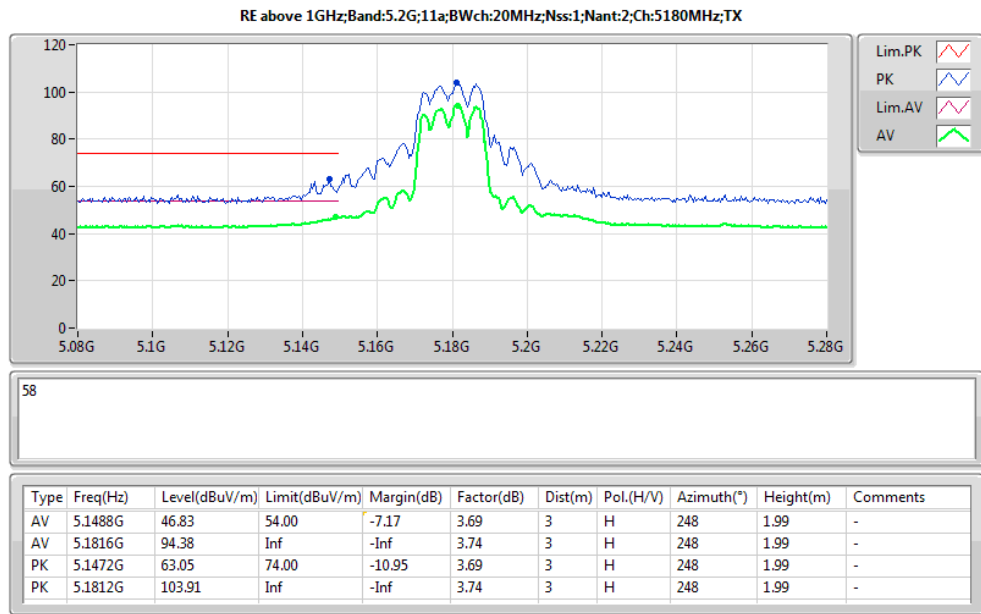
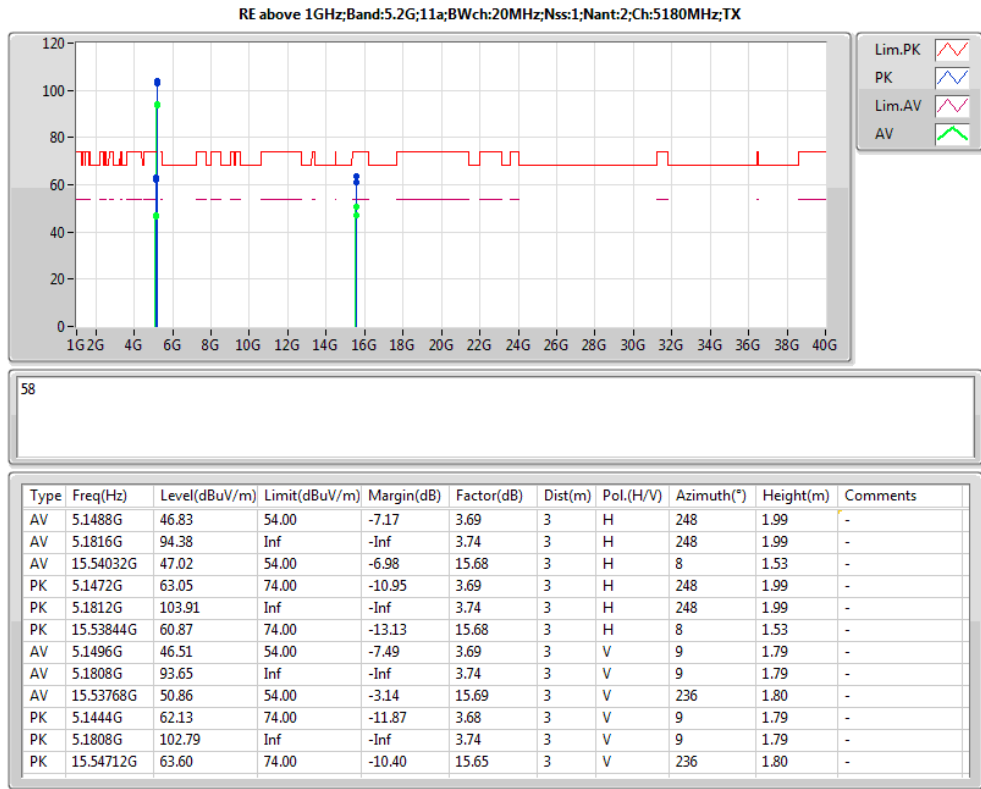
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;HT20;20;1,(M0-15);2;5240;H;TX	Pass	PK	15.7186G	59.44	74.00	-14.56	15.02	3	H	234	1.74	-
5.2G;HT20;20;1,(M0-15);2;5240;H;TX	Pass	AV	5.1452G	43.76	54.00	-10.24	3.68	3	V	356	1.75	-
5.2G;HT20;20;1,(M0-15);2;5240;H;TX	Pass	AV	5.2404G	101.75	Inf	-Inf	3.83	3	V	356	1.75	-
5.2G;HT20;20;1,(M0-15);2;5240;H;TX	Pass	AV	15.71604G	50.76	54.00	-3.24	15.03	3	V	236	1.86	-
5.2G;HT20;20;1,(M0-15);2;5240;H;TX	Pass	PK	5.1404G	59.82	74.00	-14.18	3.68	3	V	356	1.75	-
5.2G;HT20;20;1,(M0-15);2;5240;H;TX	Pass	PK	5.2408G	110.56	Inf	-Inf	3.83	3	V	356	1.75	-
5.2G;HT20;20;1,(M0-15);2;5240;H;TX	Pass	PK	15.71828G	64.04	74.00	-9.96	15.03	3	V	236	1.86	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	5.7146G	52.65	54.00	-1.35	4.55	3	H	268	1.85	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	5.715G	52.29	54.00	-1.71	4.55	3	H	268	1.85	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	5.7446G	96.68	Inf	-Inf	4.60	3	H	268	1.85	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	11.49156G	42.95	54.00	-11.05	13.48	3	H	270	1.87	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	5.715G	70.13	74.00	-3.87	4.55	3	H	268	1.85	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	5.7222G	76.56	78.20	-1.64	4.57	3	H	268	1.85	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	5.7442G	106.20	Inf	-Inf	4.60	3	H	268	1.85	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	11.487G	55.82	74.00	-18.18	13.48	3	H	270	1.87	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	5.7134G	52.65	54.00	-1.35	4.55	3	V	2	1.98	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	5.715G	52.29	54.00	-1.71	4.55	3	V	2	1.98	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	5.7454G	96.67	Inf	-Inf	4.60	3	V	2	1.98	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	AV	11.48848G	45.84	54.00	-8.16	13.48	3	V	267	1.85	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	5.7138G	69.11	74.00	-4.89	4.55	3	V	2	1.98	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	5.723G	76.55	78.20	-1.65	4.57	3	V	2	1.98	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	5.7458G	105.61	Inf	-Inf	4.60	3	V	2	1.98	-
5.8G;HT20;20;1,(M0-15);2;5745;L;TX	Pass	PK	11.49084G	59.45	74.00	-14.55	13.48	3	V	267	1.85	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.7122G	45.61	54.00	-8.39	4.55	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.715G	44.85	54.00	-9.15	4.55	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.7854G	100.93	Inf	-Inf	4.67	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.8582G	47.25	Inf	-Inf	4.78	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.8622G	46.02	54.00	-7.98	4.78	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	11.56928G	46.09	54.00	-7.91	13.36	3	H	262	1.95	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.7126G	60.58	74.00	-13.42	4.55	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.7226G	63.63	78.20	-14.57	4.57	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.7858G	110.20	Inf	-Inf	4.67	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.851G	61.11	78.20	-17.09	4.77	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.861G	58.78	74.00	-15.22	4.78	3	H	212	1.91	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	11.5692G	59.02	74.00	-14.98	13.36	3	H	262	1.95	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.7138G	45.72	54.00	-8.28	4.55	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.715G	44.66	54.00	-9.34	4.55	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.7838G	100.45	Inf	-Inf	4.66	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.8566G	47.06	Inf	-Inf	4.78	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	5.8606G	45.94	54.00	-8.06	4.78	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	AV	11.57028G	50.04	54.00	-3.96	13.36	3	V	265	1.96	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.7142G	61.54	74.00	-12.46	4.55	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.7238G	65.14	78.20	-13.06	4.57	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.7838G	111.07	Inf	-Inf	4.66	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.8514G	60.35	78.20	-17.85	4.77	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	5.8606G	58.77	74.00	-15.23	4.78	3	V	237	1.75	-
5.8G;HT20;20;1,(M0-15);2;5785;M;TX	Pass	PK	11.5706G	62.92	74.00	-11.08	13.36	3	V	265	1.96	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.725G	44.08	Inf	-Inf	4.57	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.8258G	98.57	Inf	-Inf	4.73	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.8502G	58.05	Inf	-Inf	4.77	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.8602G	52.51	54.00	-1.49	4.78	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	11.64912G	45.45	54.00	-8.55	13.24	3	H	262	2.01	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.725G	55.37	Inf	-Inf	4.57	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.8258G	107.71	Inf	-Inf	4.73	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.8506G	74.40	78.20	-3.80	4.77	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.8602G	67.99	74.00	-6.01	4.78	3	H	360	1.44	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	11.65096G	58.84	74.00	-15.16	13.24	3	H	262	2.01	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.725G	43.53	Inf	-Inf	4.57	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.8262G	98.90	Inf	-Inf	4.73	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.851G	58.05	Inf	-Inf	4.77	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	5.861G	52.95	54.00	-1.05	4.78	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	AV	11.65036G	48.59	54.00	-5.41	13.24	3	V	265	1.85	-

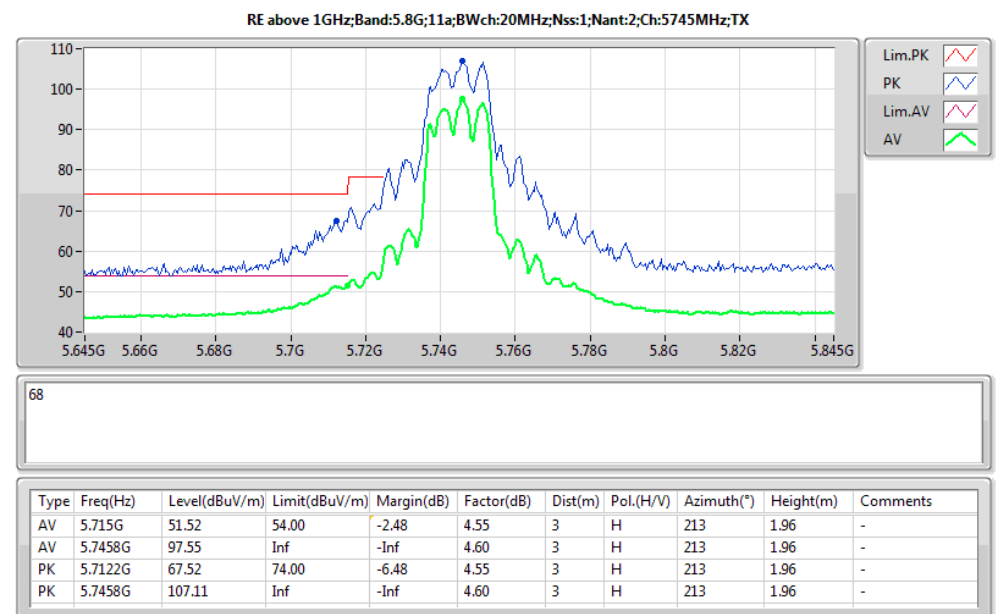
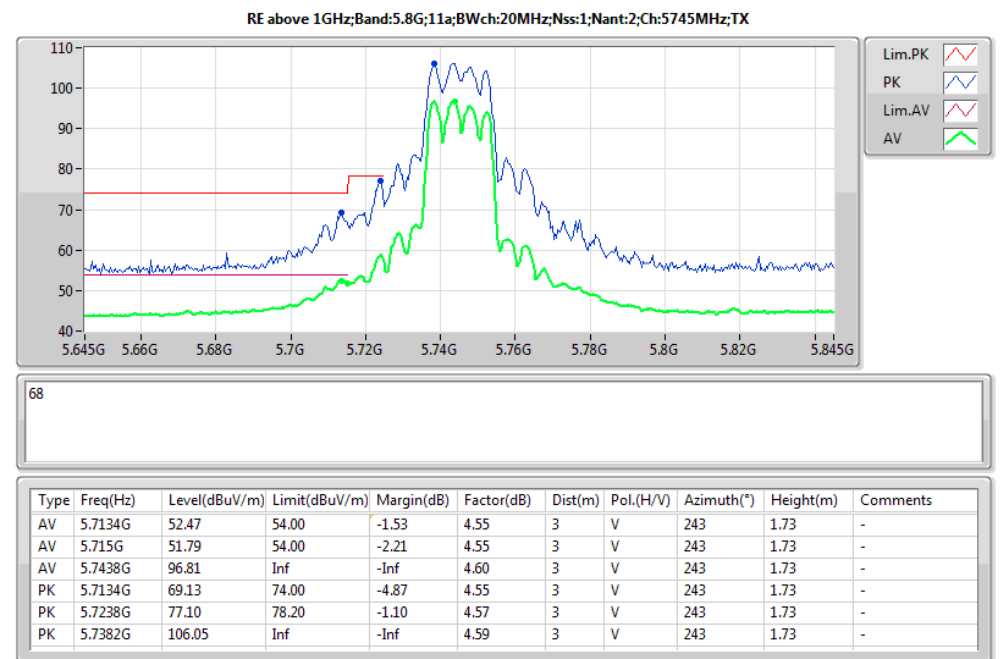
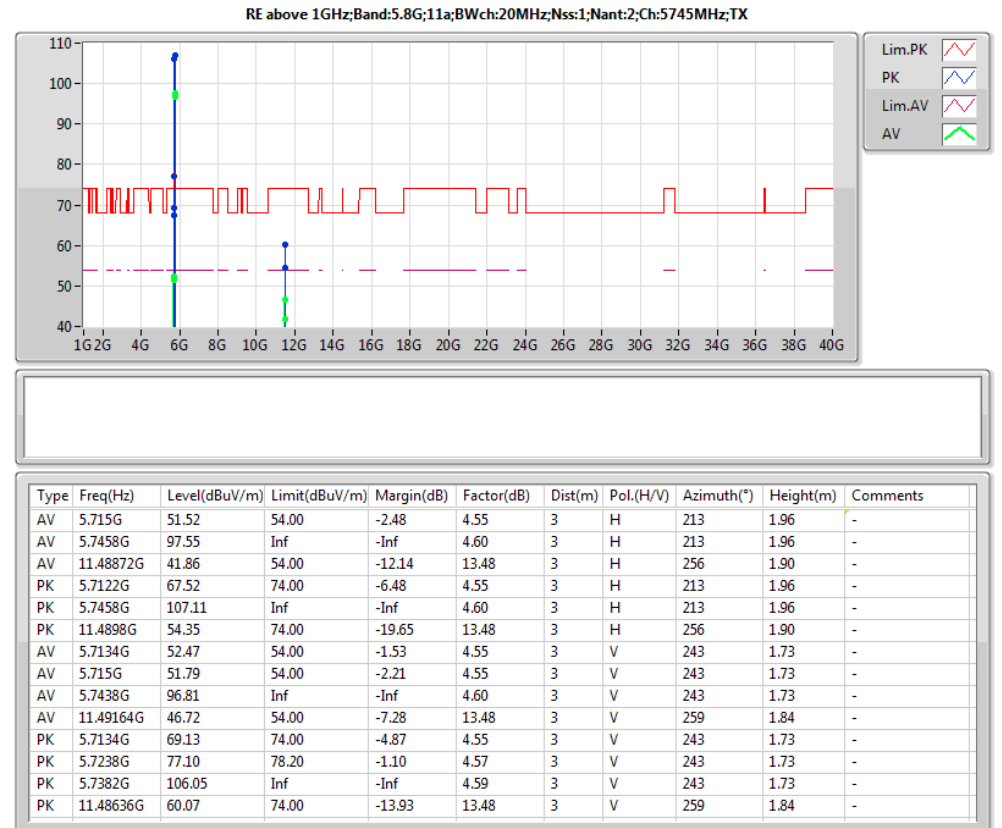
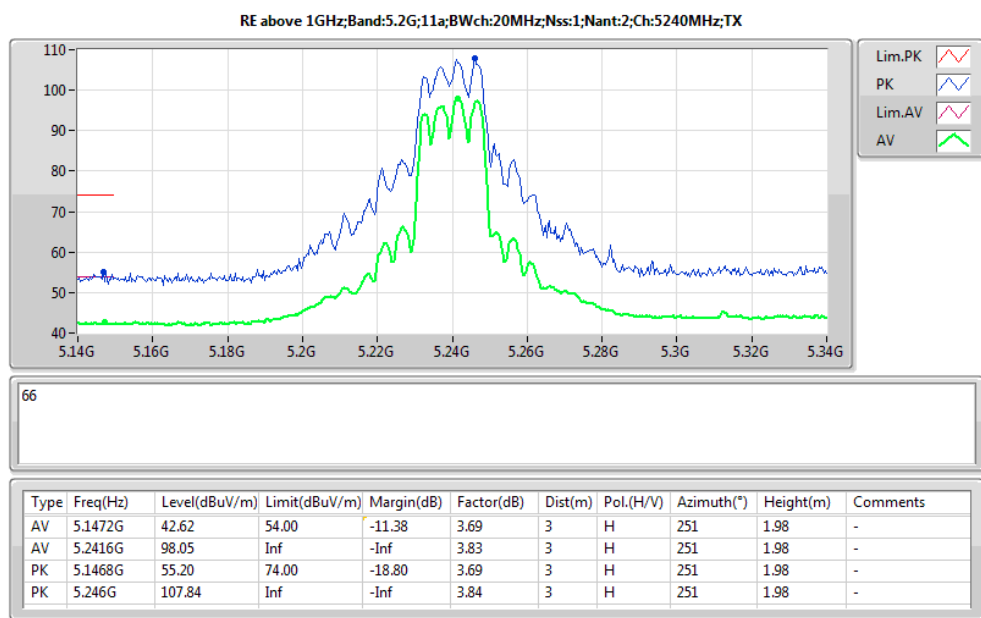
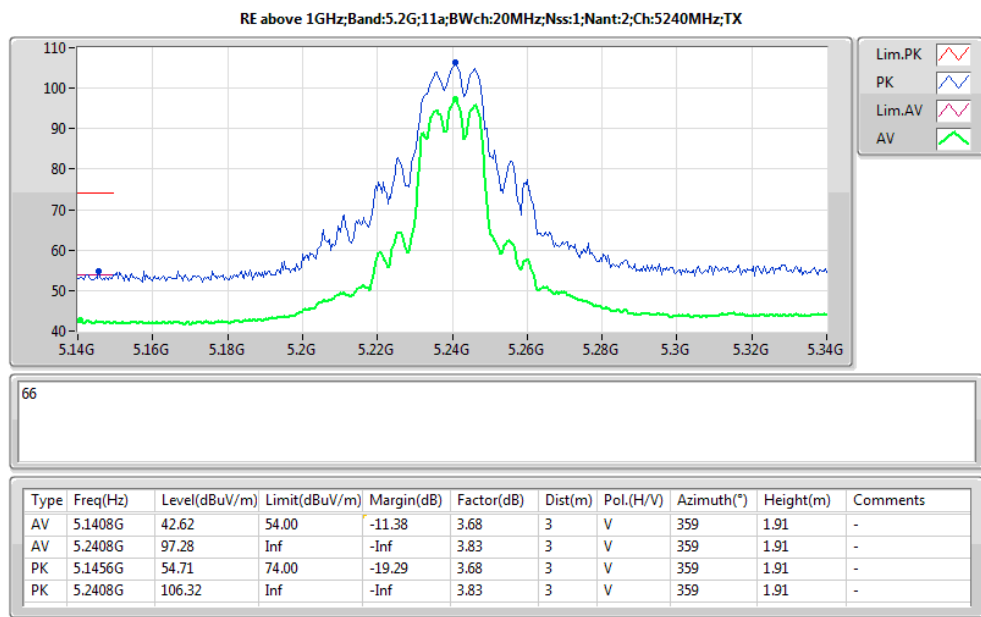
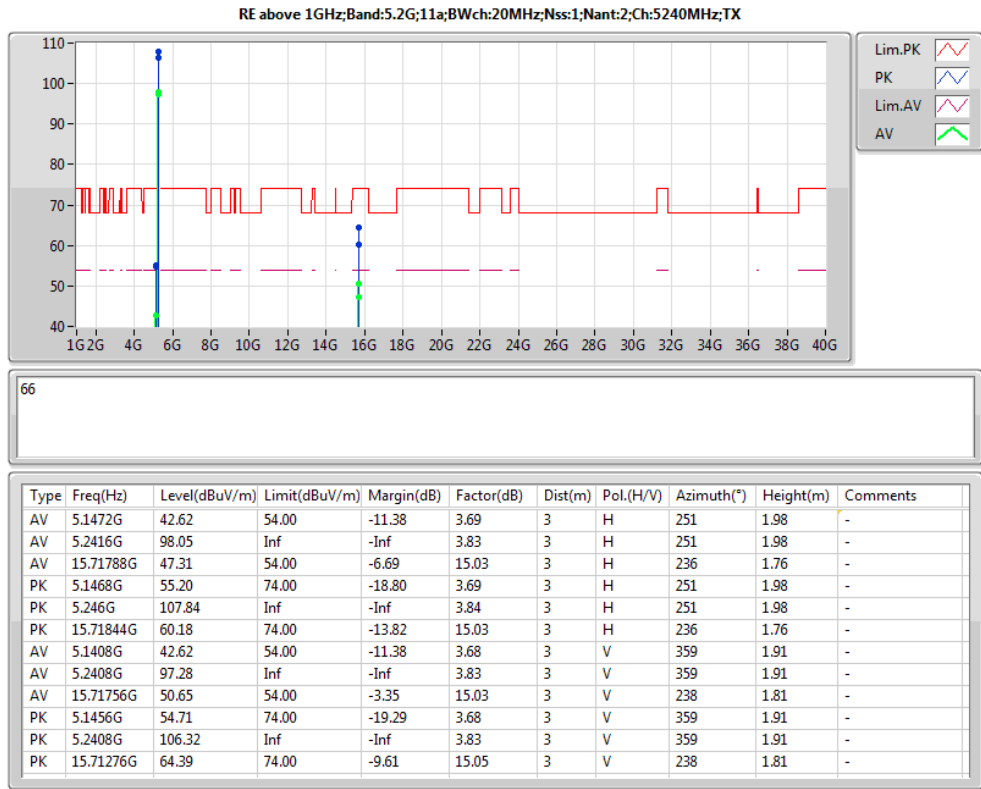


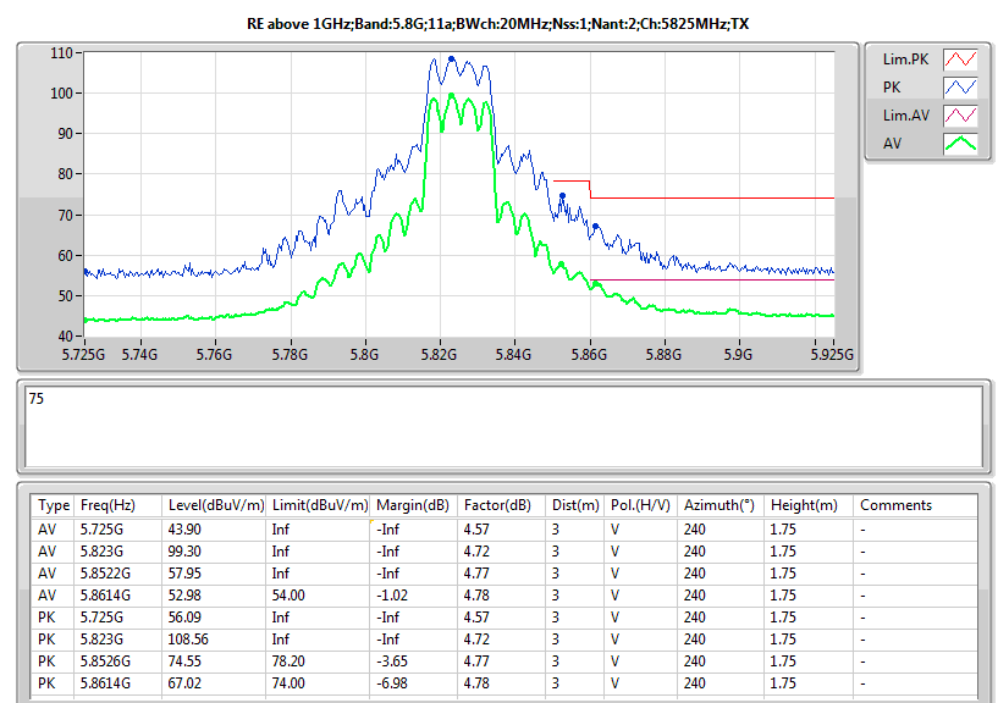
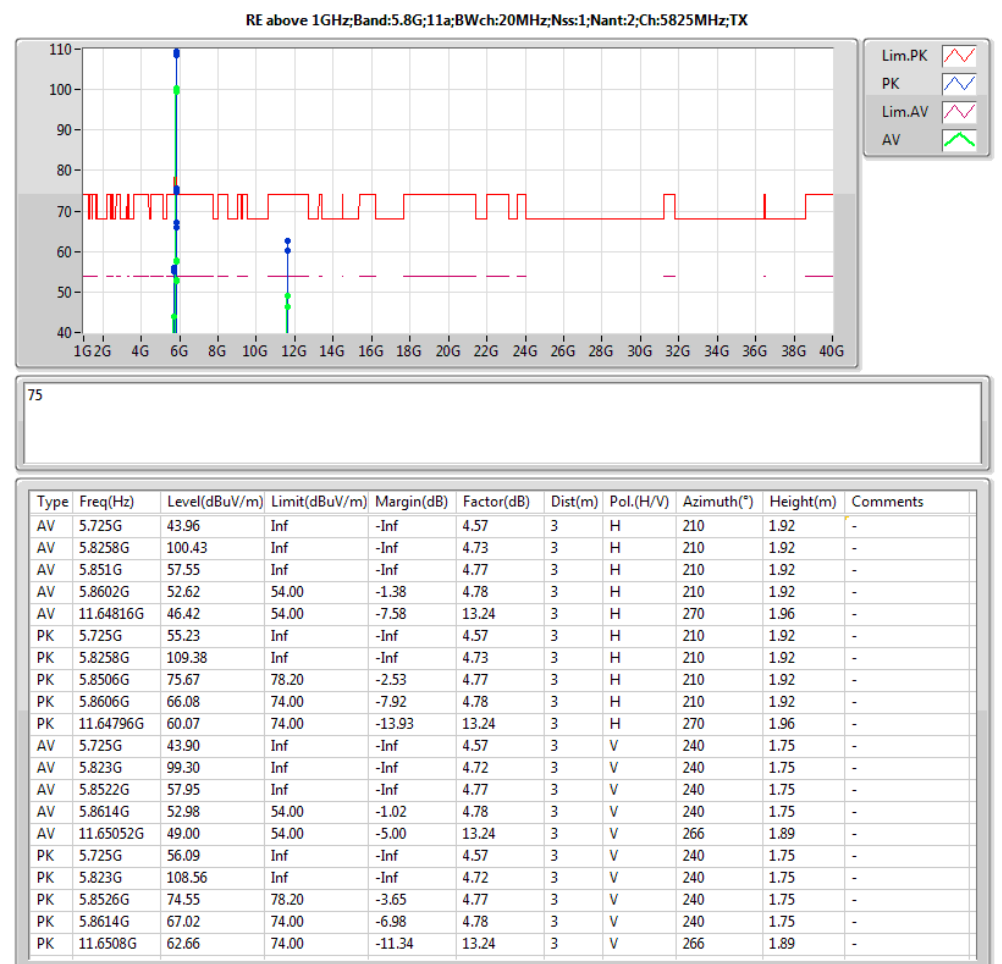
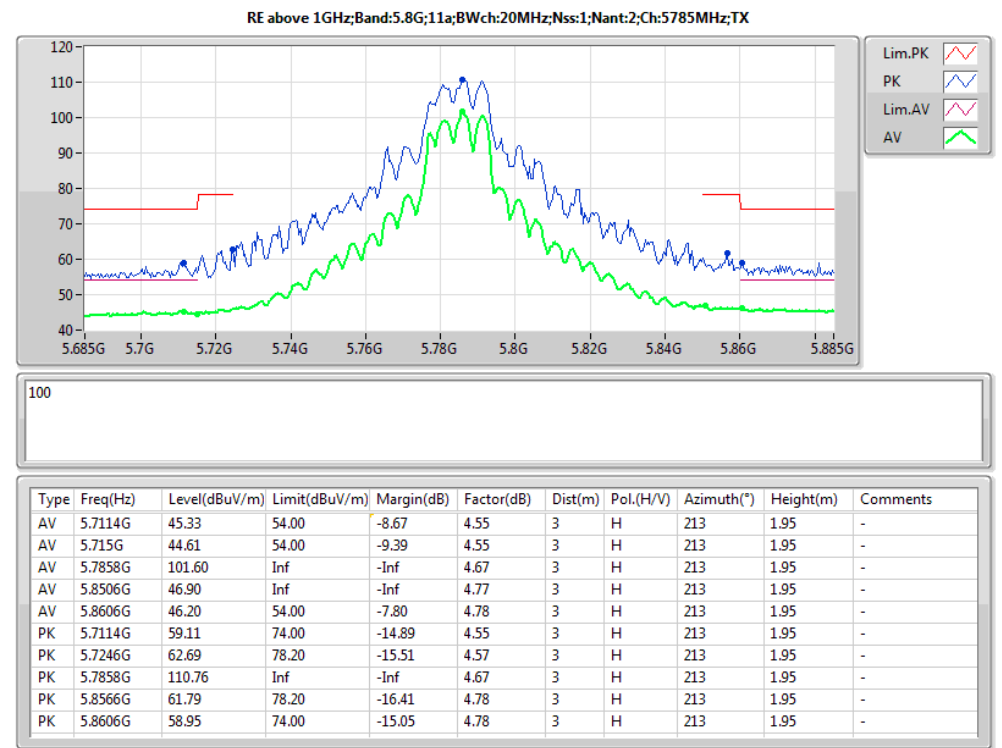
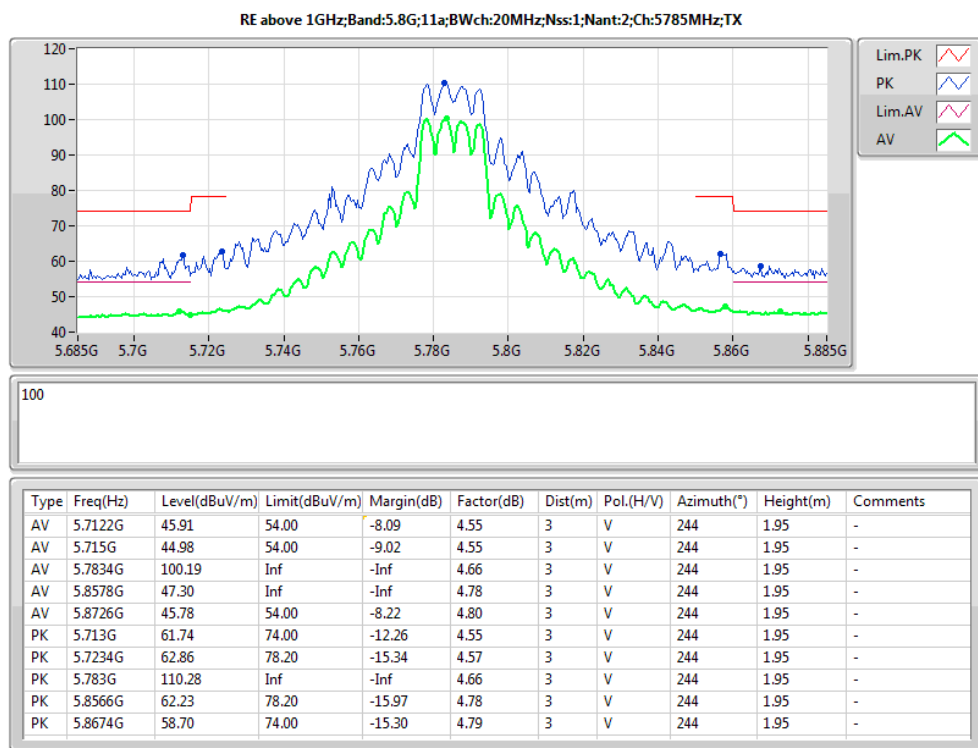
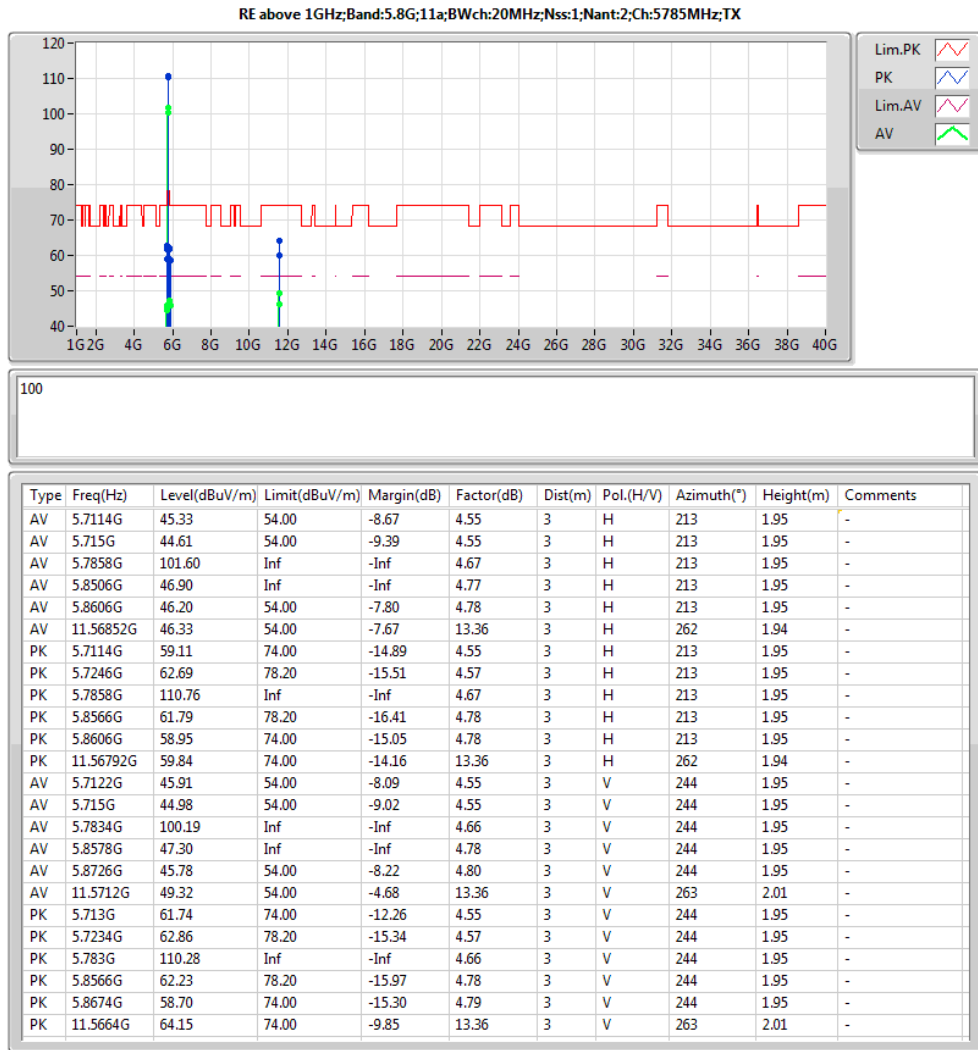
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.725G	54.99	Inf	-Inf	4.57	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.8238G	109.68	Inf	-Inf	4.73	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.8518G	74.46	78.20	-3.74	4.77	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	5.861G	67.19	74.00	-6.81	4.78	3	V	239	1.75	-
5.8G;HT20;20;1,(M0-15);2;5825;H;TX	Pass	PK	11.65052G	62.44	74.00	-11.56	13.24	3	V	265	1.85	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	AV	5.1488G	52.70	54.00	-1.30	3.69	3	H	265	1.95	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	AV	5.1888G	90.04	Inf	-Inf	3.75	3	H	265	1.95	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	AV	15.56384G	46.53	54.00	-7.47	15.59	3	H	231	1.75	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	PK	5.1488G	66.91	74.00	-7.09	3.69	3	H	265	1.95	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	PK	5.192G	99.28	Inf	-Inf	3.76	3	H	265	1.95	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	PK	15.56808G	59.86	74.00	-14.14	15.57	3	H	231	1.75	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	AV	5.1492G	52.57	54.00	-1.43	3.69	3	V	253	1.77	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	AV	5.1916G	88.94	Inf	-Inf	3.76	3	V	253	1.77	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	AV	15.57128G	47.38	54.00	-6.62	15.56	3	V	238	1.83	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	PK	5.1496G	67.36	74.00	-6.64	3.69	3	V	253	1.77	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	PK	5.1868G	98.45	Inf	-Inf	3.75	3	V	253	1.77	-
5.2G;HT40;40;1,(M0-15);2;5190;L;TX	Pass	PK	15.57112G	60.21	74.00	-13.79	15.56	3	V	238	1.83	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	AV	5.148G	51.14	54.00	-2.86	3.69	3	H	250	1.80	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	AV	5.2312G	96.50	Inf	-Inf	3.82	3	H	250	1.80	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	AV	15.69436G	47.56	54.00	-6.44	15.11	3	H	235	1.73	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	PK	5.1488G	65.59	74.00	-8.41	3.69	3	H	250	1.80	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	PK	5.2284G	105.17	Inf	-Inf	3.81	3	H	250	1.80	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	PK	15.68924G	59.65	74.00	-14.35	15.13	3	H	235	1.73	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	AV	5.1476G	49.28	54.00	-4.72	3.69	3	V	360	1.94	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	AV	5.2332G	95.31	Inf	-Inf	3.82	3	V	360	1.94	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	AV	15.69364G	50.71	54.00	-3.29	15.12	3	V	238	1.82	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	PK	5.1448G	64.01	74.00	-9.99	3.68	3	V	360	1.94	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	PK	5.2328G	103.94	Inf	-Inf	3.82	3	V	360	1.94	-
5.2G;HT40;40;1,(M0-15);2;5230;H;TX	Pass	PK	15.6888G	62.28	74.00	-11.72	15.13	3	V	238	1.82	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.7148G	53.00	54.00	-1.00	4.55	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.7196G	54.48	Inf	-Inf	4.56	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.7574G	89.88	Inf	-Inf	4.62	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.86G	45.46	54.00	-8.54	4.78	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.8828G	45.83	54.00	-8.17	4.81	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	11.50908G	41.64	54.00	-12.36	13.45	3	H	254	1.76	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.7148G	67.49	74.00	-6.51	4.55	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.722G	69.21	78.20	-8.99	4.57	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.752G	98.45	Inf	-Inf	4.61	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.86G	55.66	74.00	-18.34	4.78	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.8792G	58.43	74.00	-15.57	4.81	3	H	218	1.96	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	11.51604G	54.20	74.00	-19.80	13.44	3	H	254	1.76	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.7148G	52.28	54.00	-1.72	4.55	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.7202G	53.61	Inf	-Inf	4.56	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.7574G	88.46	Inf	-Inf	4.62	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.86G	44.61	54.00	-9.39	4.78	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	5.8846G	45.81	54.00	-8.19	4.82	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	AV	11.511G	41.58	54.00	-12.42	13.45	3	V	256	1.82	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.7148G	65.84	74.00	-8.16	4.55	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.7172G	65.70	78.20	-12.50	4.56	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.758G	96.86	Inf	-Inf	4.62	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.86G	54.26	74.00	-19.74	4.78	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	5.8948G	57.08	74.00	-16.92	4.83	3	V	2	1.75	-
5.8G;HT40;40;1,(M0-15);2;5755;L;TX	Pass	PK	11.5102G	53.38	74.00	-20.62	13.45	3	V	256	1.82	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.7146G	47.90	54.00	-6.10	4.55	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.7248G	51.87	Inf	-Inf	4.57	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.7974G	95.29	Inf	-Inf	4.69	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.8526G	55.03	Inf	-Inf	4.77	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.8604G	51.96	54.00	-2.04	4.78	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	11.58956G	43.55	54.00	-10.45	13.33	3	H	279	1.89	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.7146G	61.47	74.00	-12.53	4.55	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.7248G	67.43	78.20	-10.77	4.57	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.7974G	104.59	Inf	-Inf	4.69	3	H	145	1.97	-

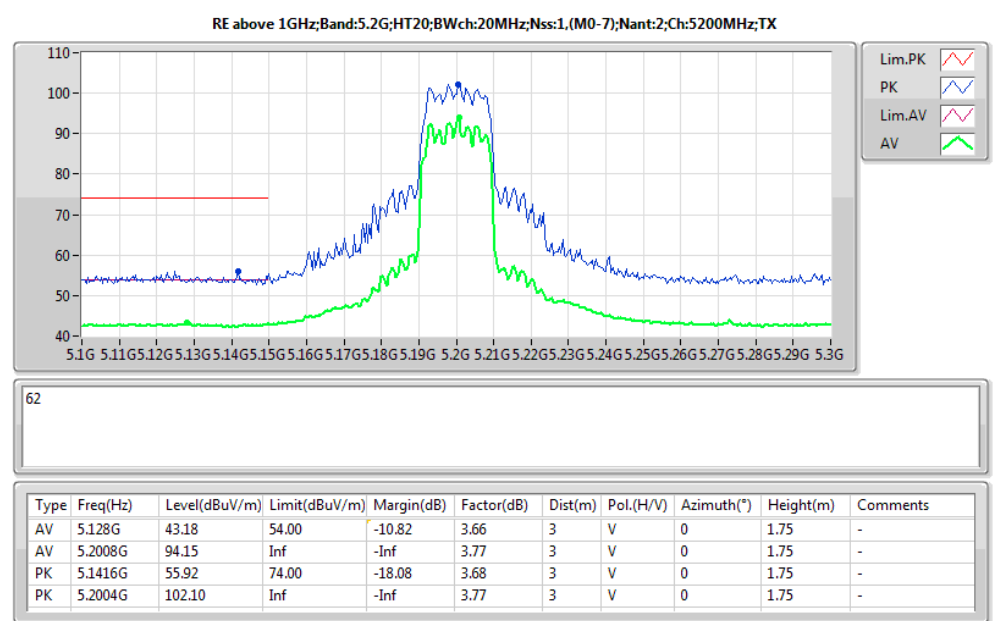
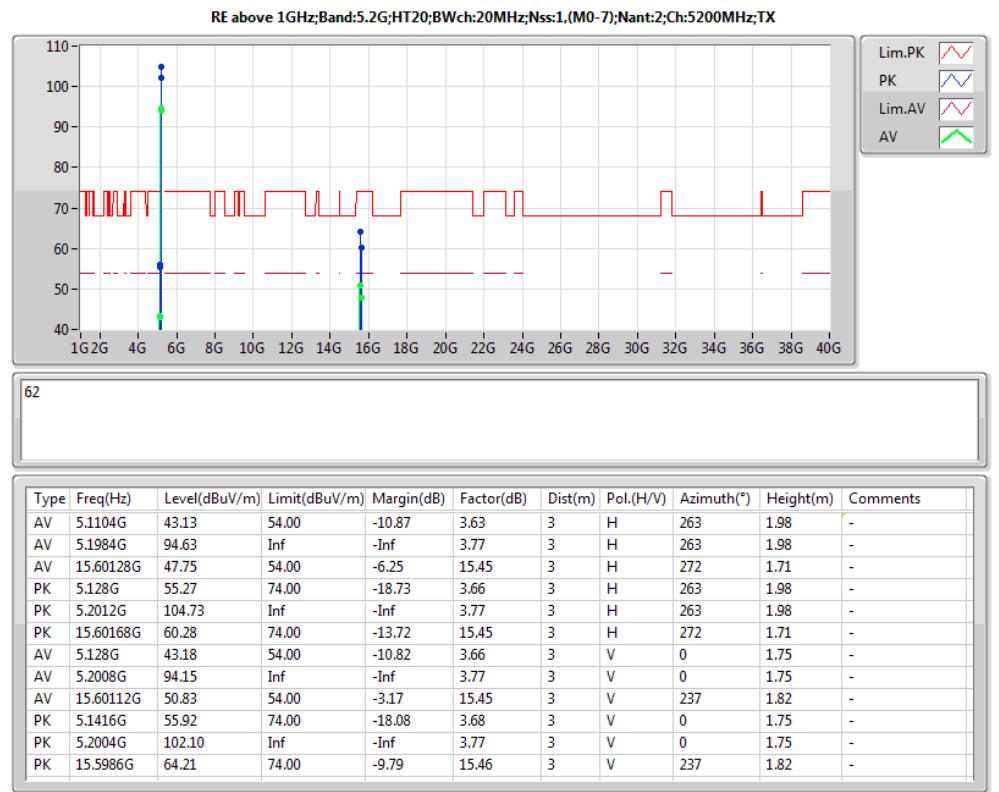
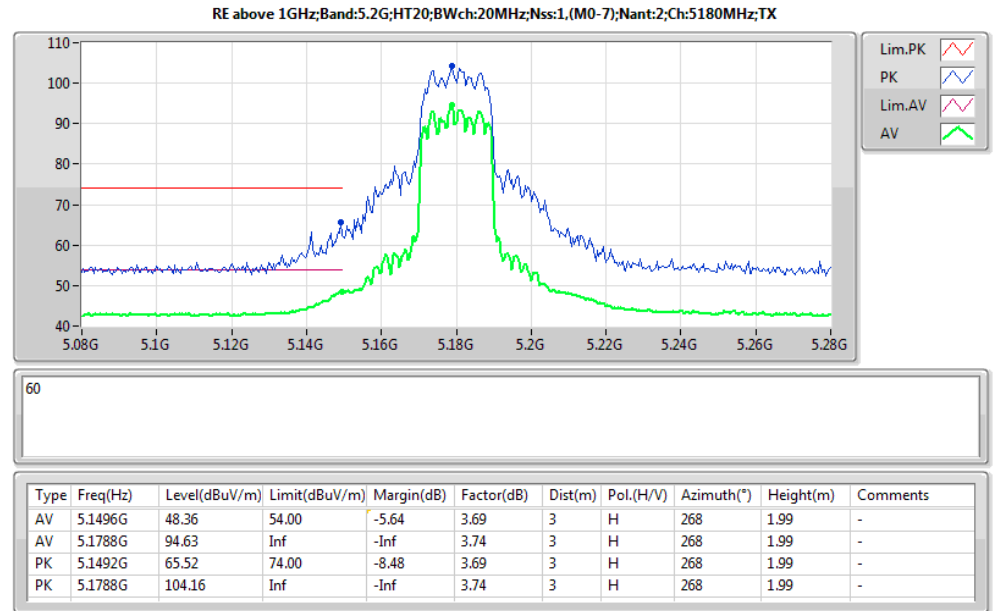
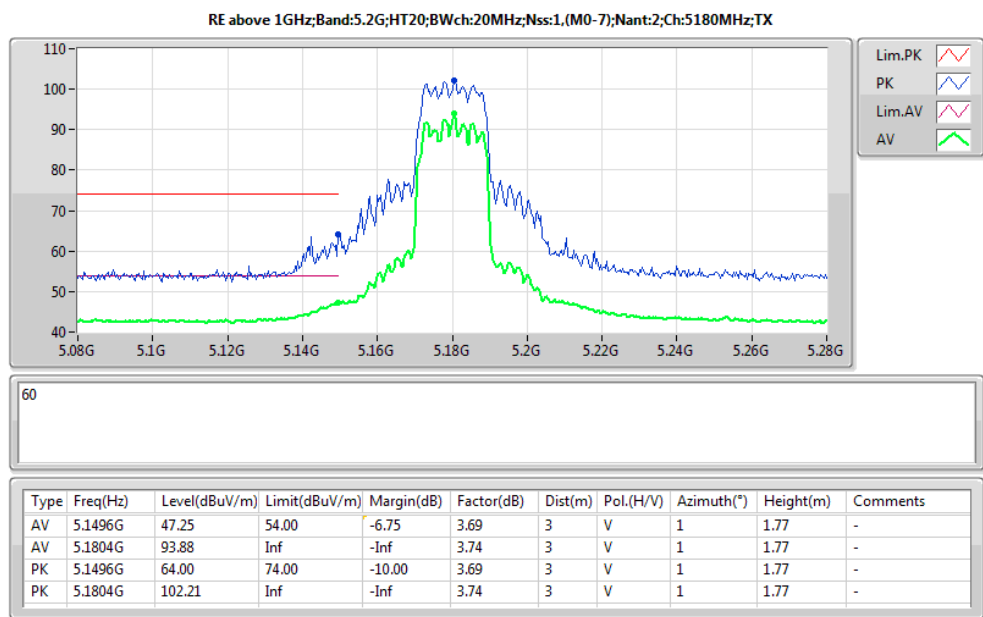
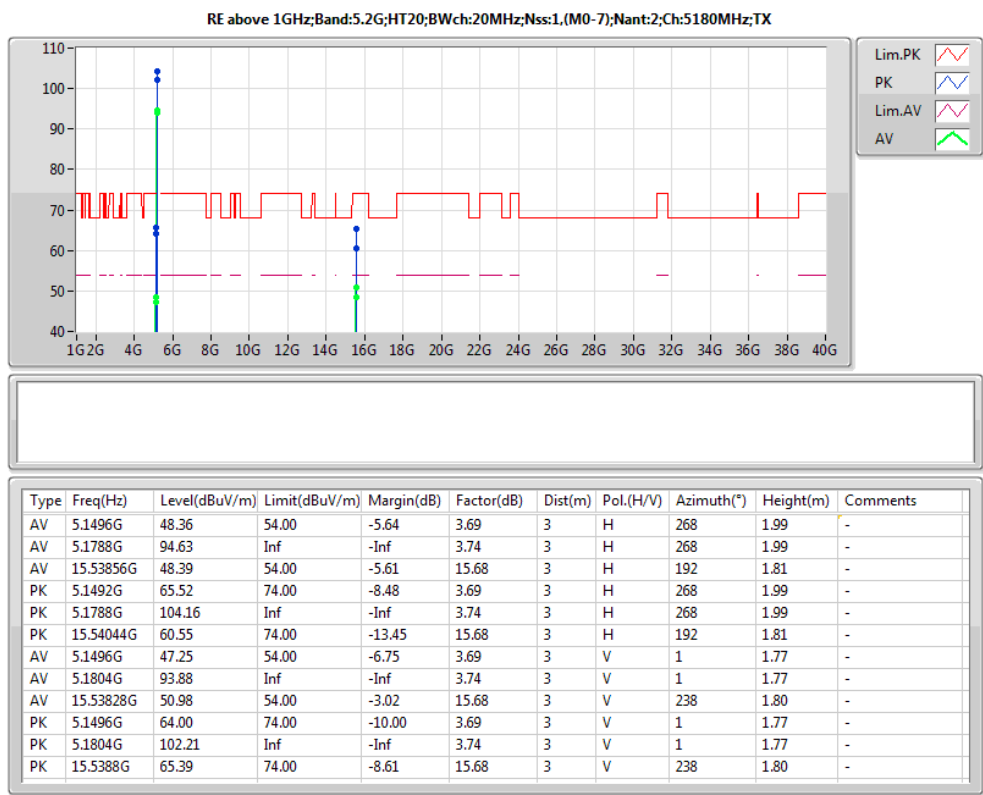
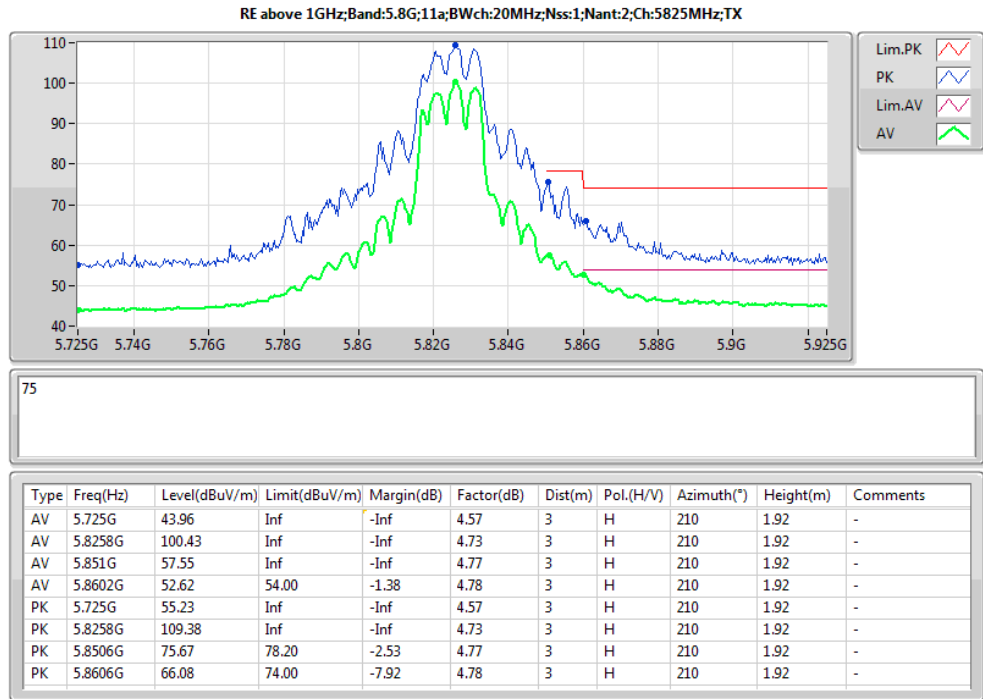


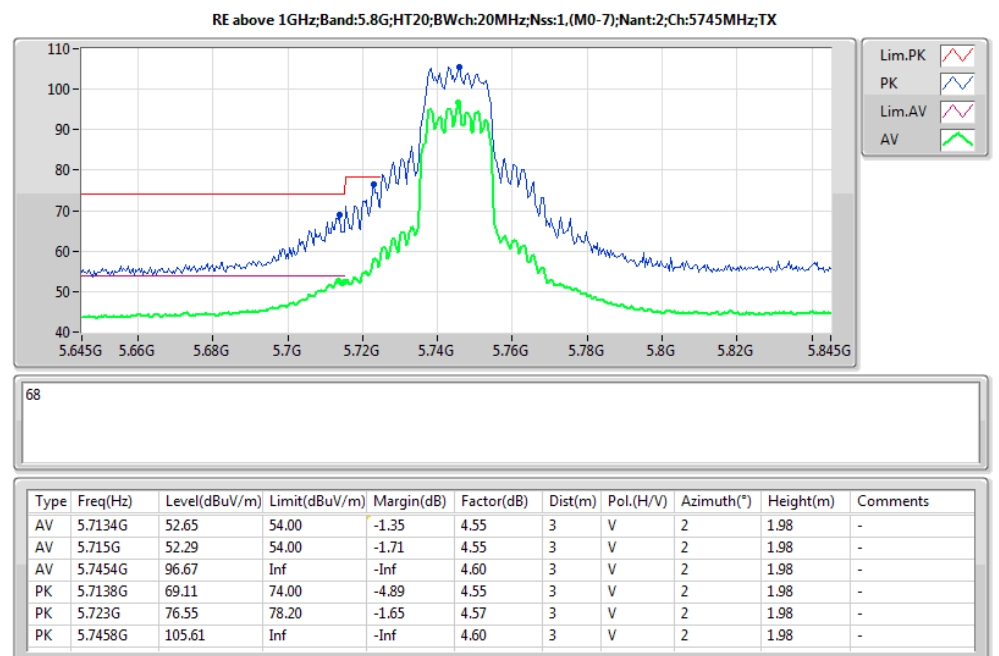
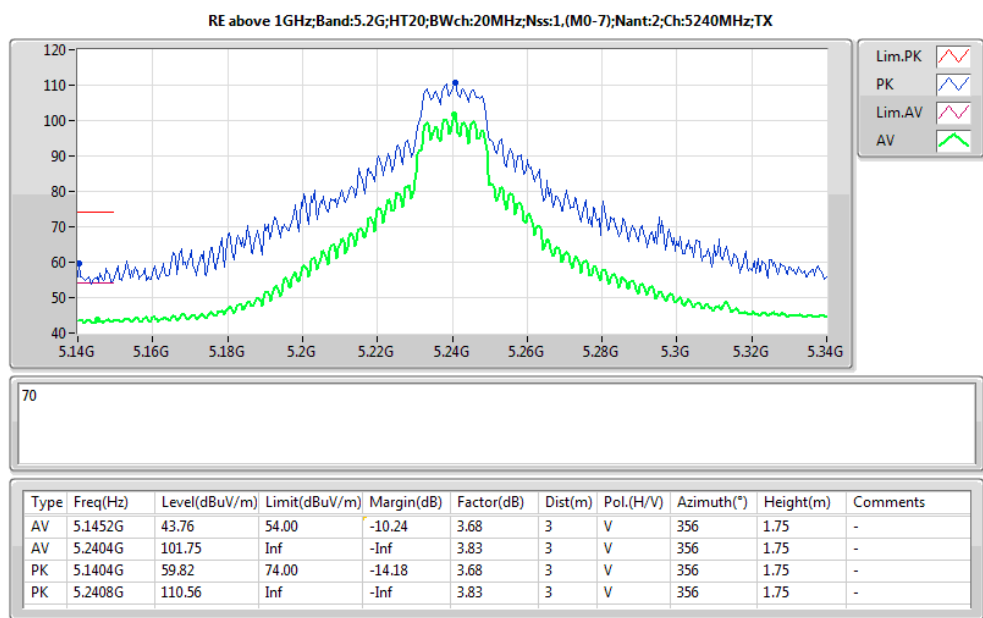
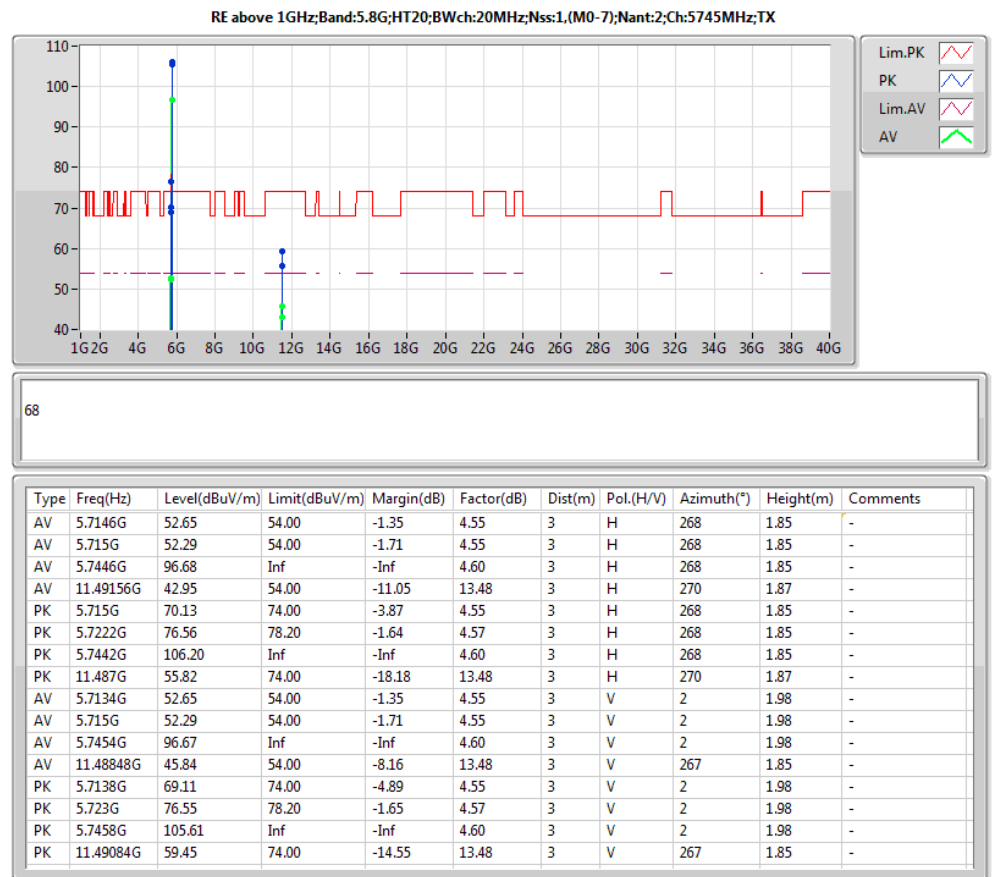
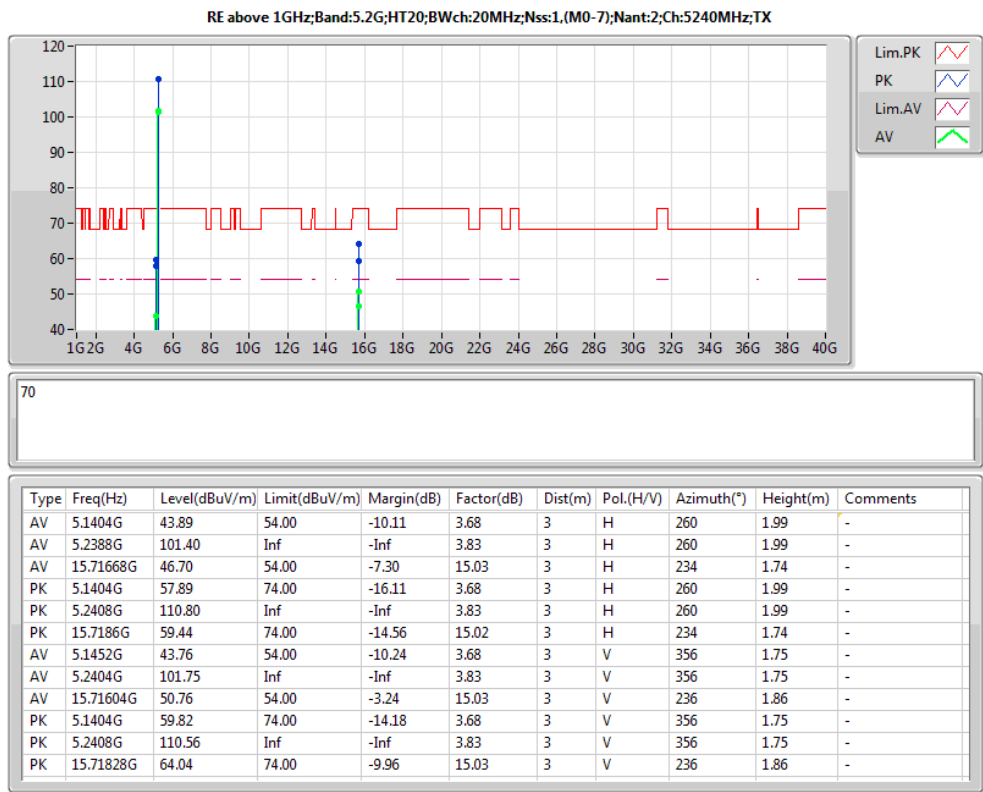
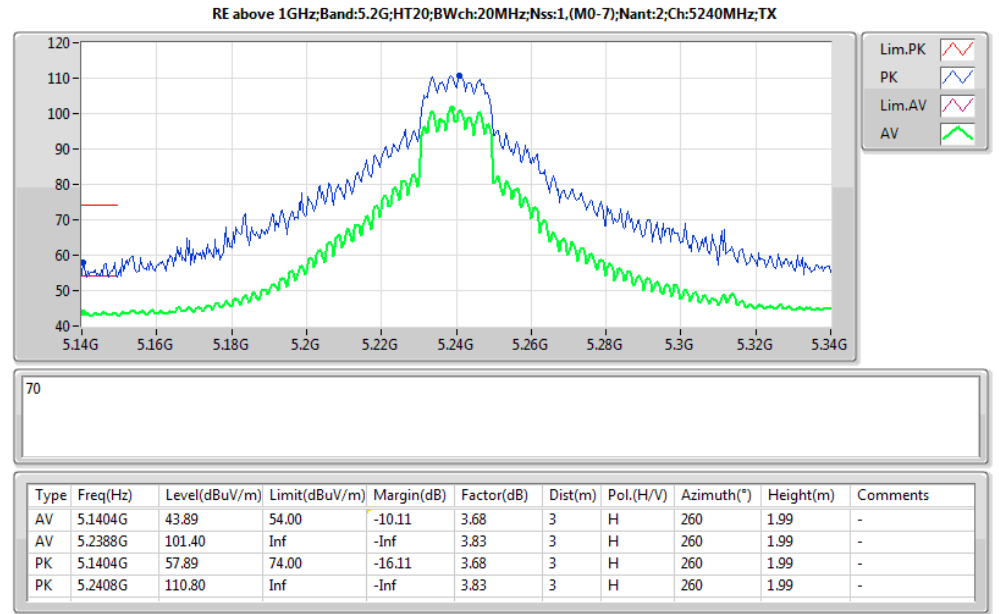
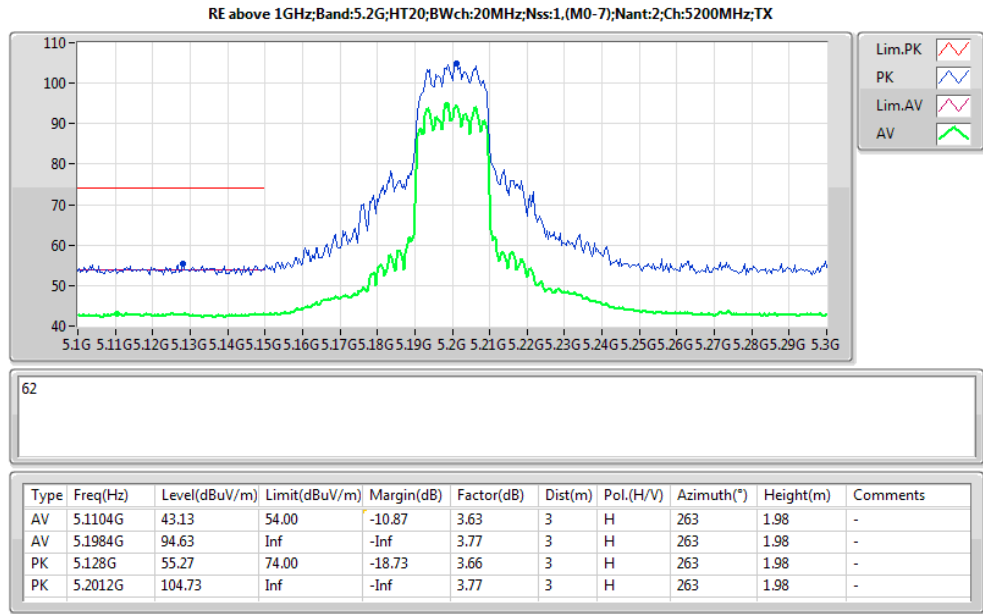
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.8526G	69.41	78.20	-8.79	4.77	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.867G	68.03	74.00	-5.97	4.79	3	H	145	1.97	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	11.59192G	55.82	74.00	-18.18	13.32	3	H	279	1.89	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.7146G	48.15	54.00	-5.85	4.55	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.7248G	52.20	Inf	-Inf	4.57	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.7974G	94.69	Inf	-Inf	4.69	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.8502G	55.71	Inf	-Inf	4.77	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	5.8622G	52.41	54.00	-1.59	4.78	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	AV	11.59044G	45.21	54.00	-8.79	13.33	3	V	265	1.85	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.7146G	61.79	74.00	-12.21	4.55	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.7248G	67.30	78.20	-10.90	4.57	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.7926G	103.07	Inf	-Inf	4.68	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.8526G	68.72	78.20	-9.48	4.77	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	5.867G	67.27	74.00	-6.73	4.79	3	V	5	1.78	-
5.8G;HT40;40;1,(M0-15);2;5795;H;TX	Pass	PK	11.59032G	57.52	74.00	-16.48	13.33	3	V	265	1.85	-

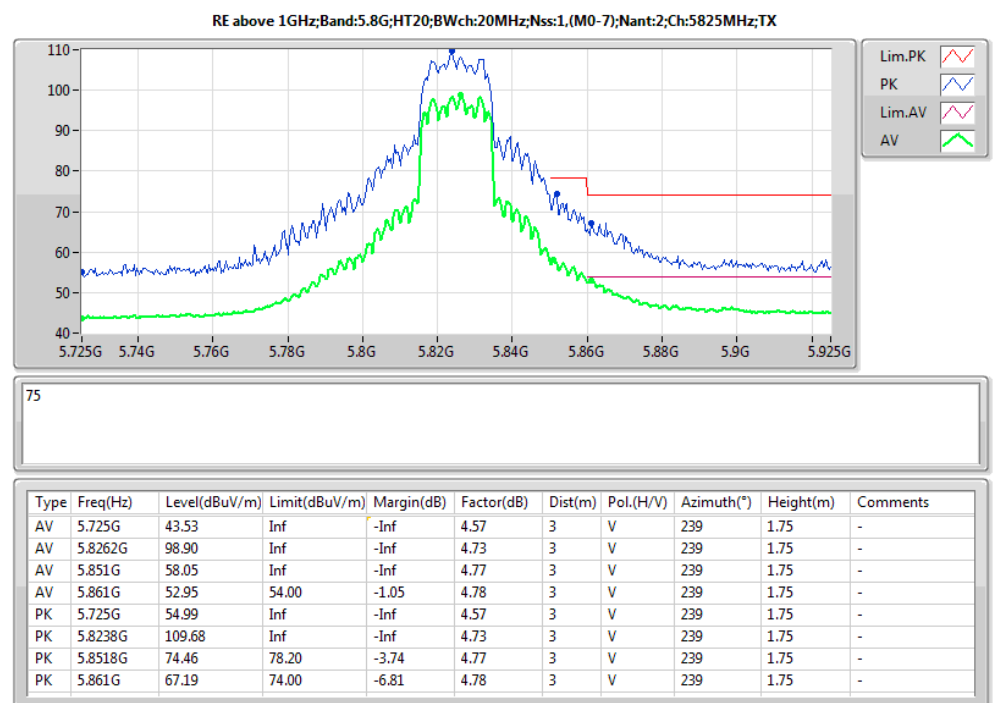
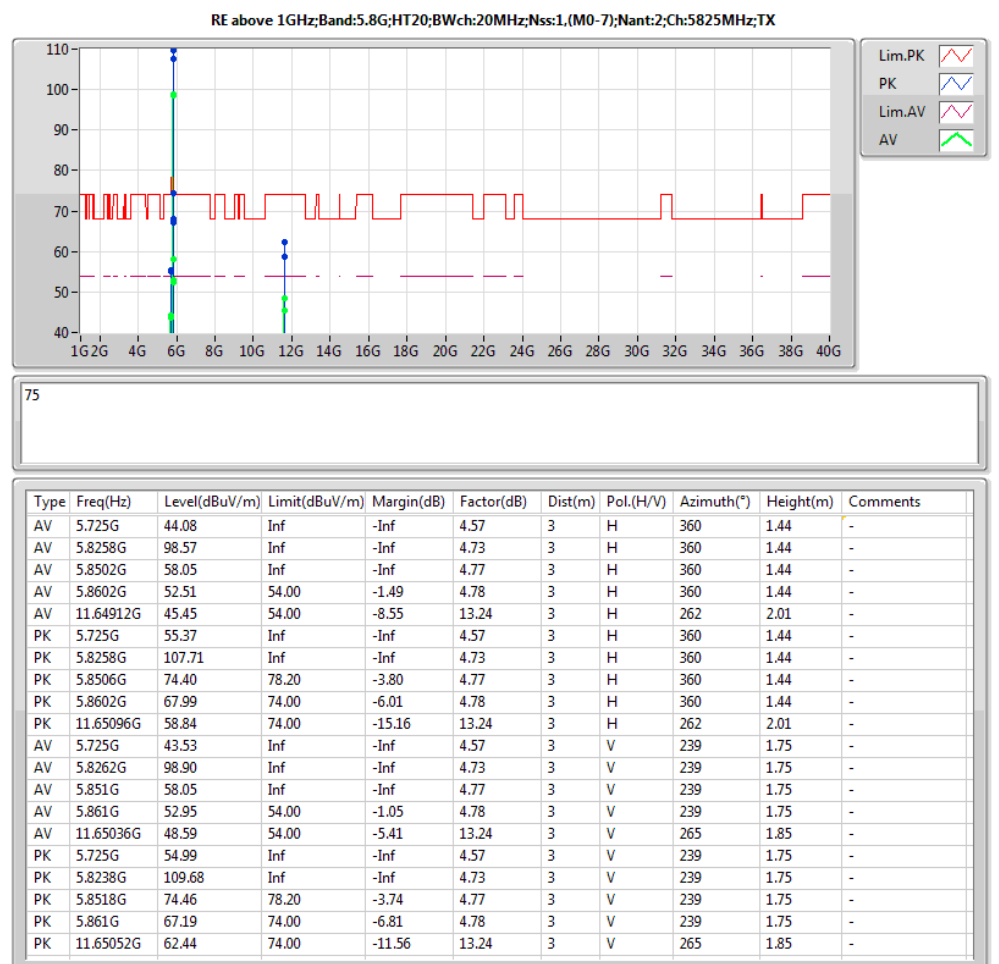
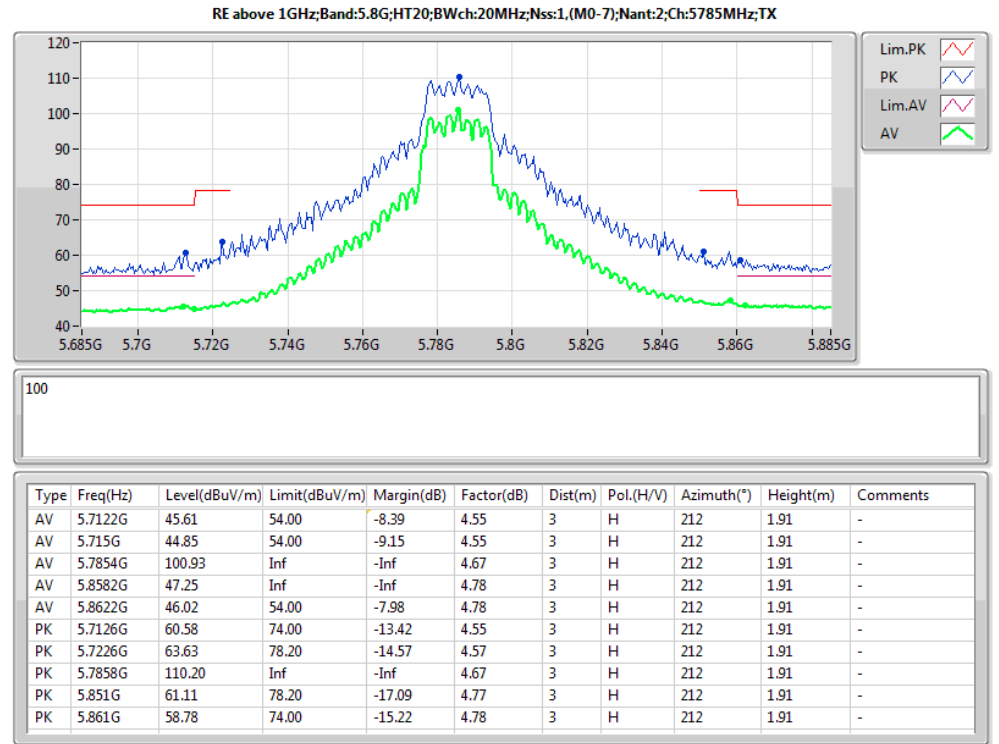
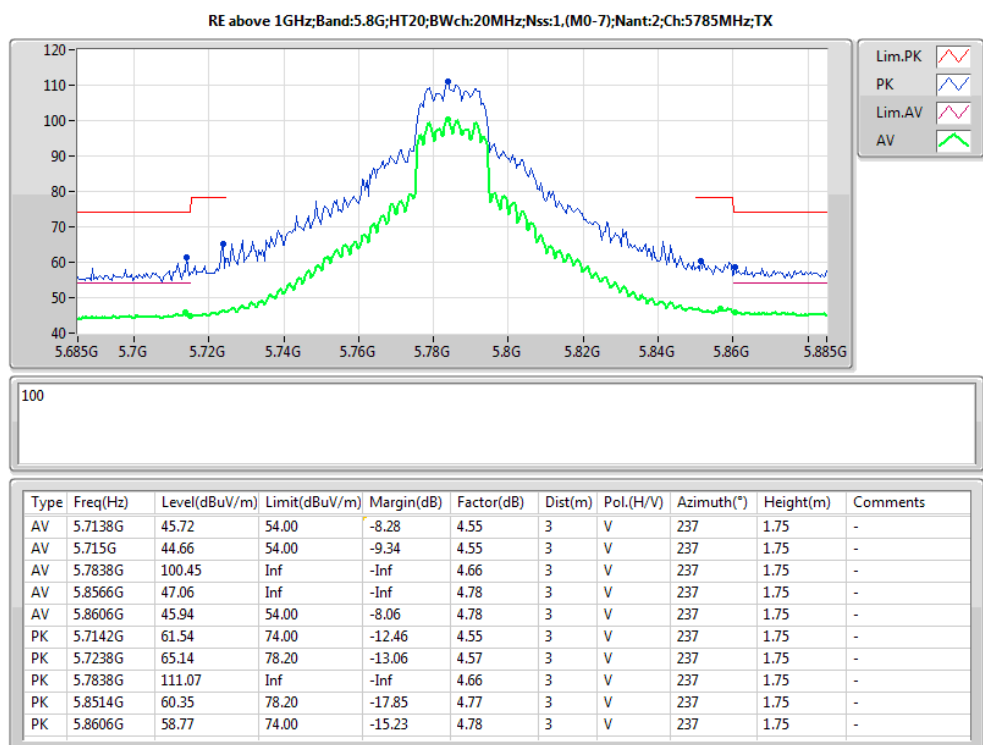
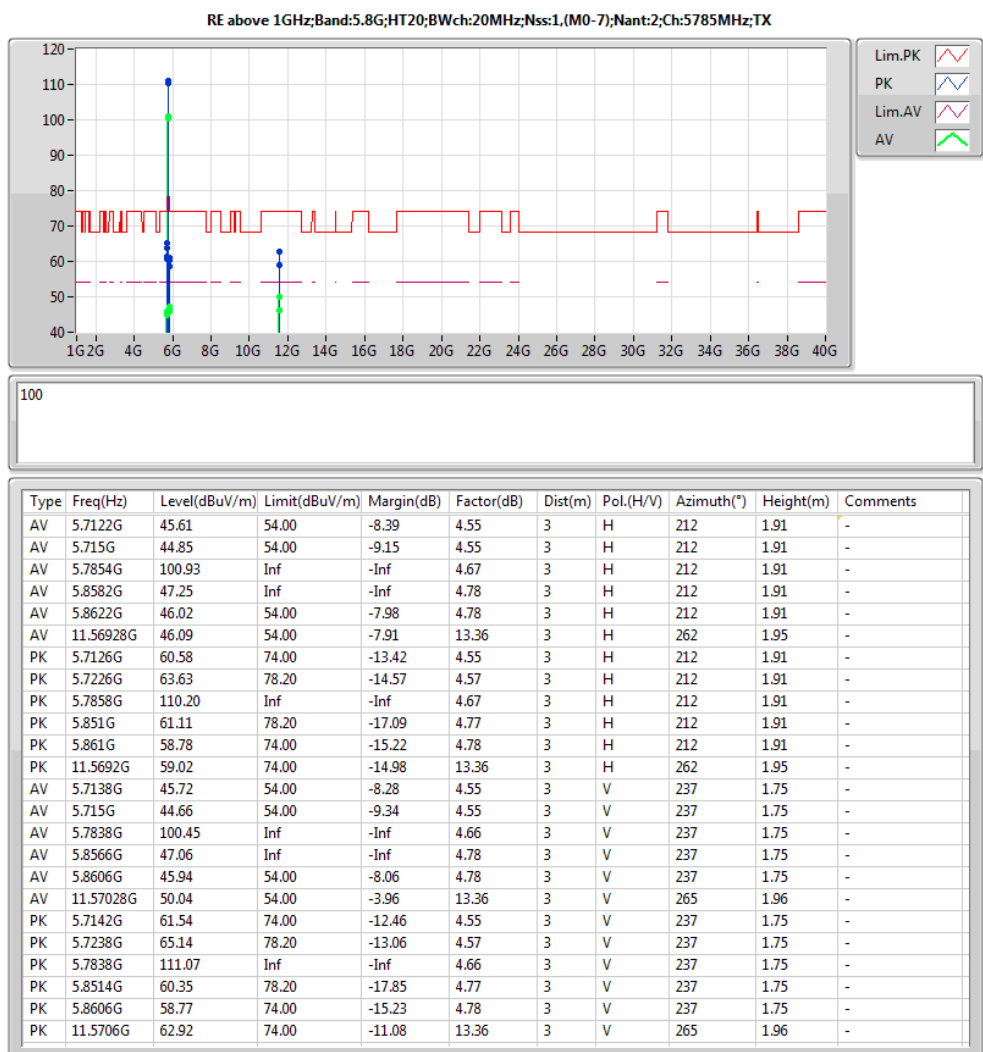
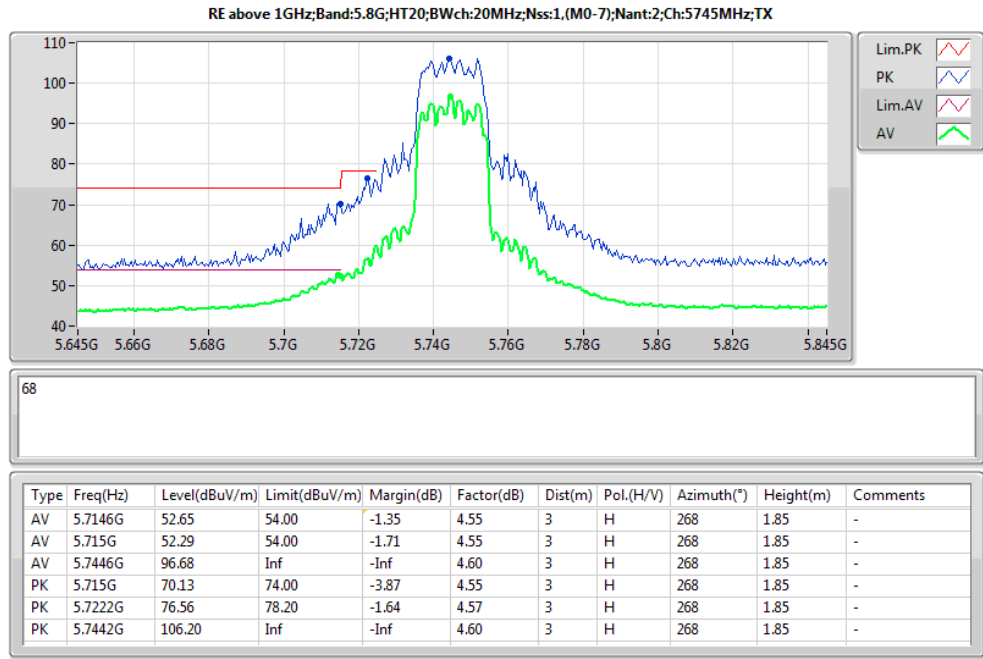


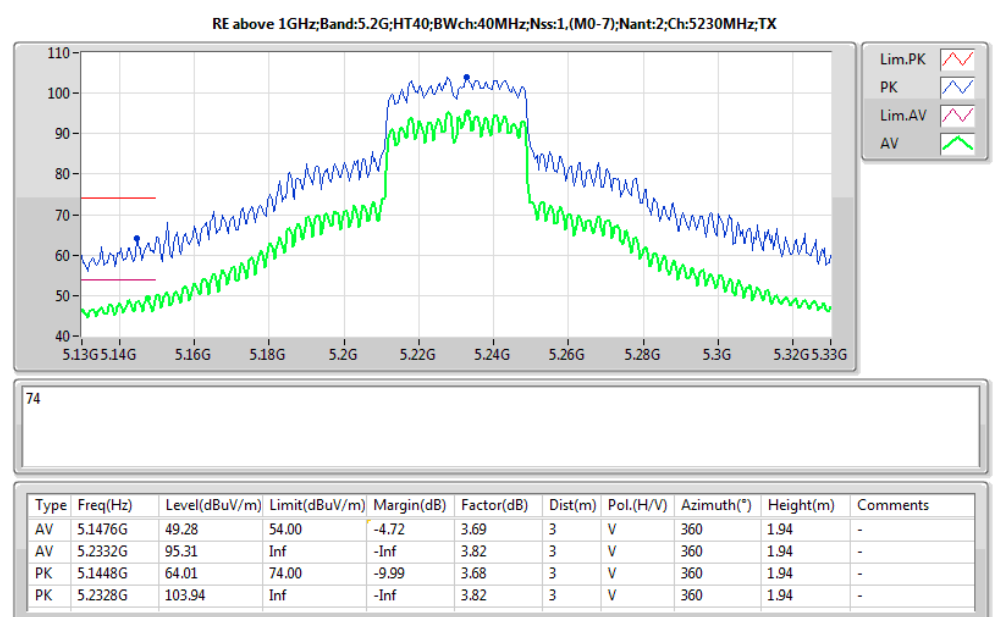
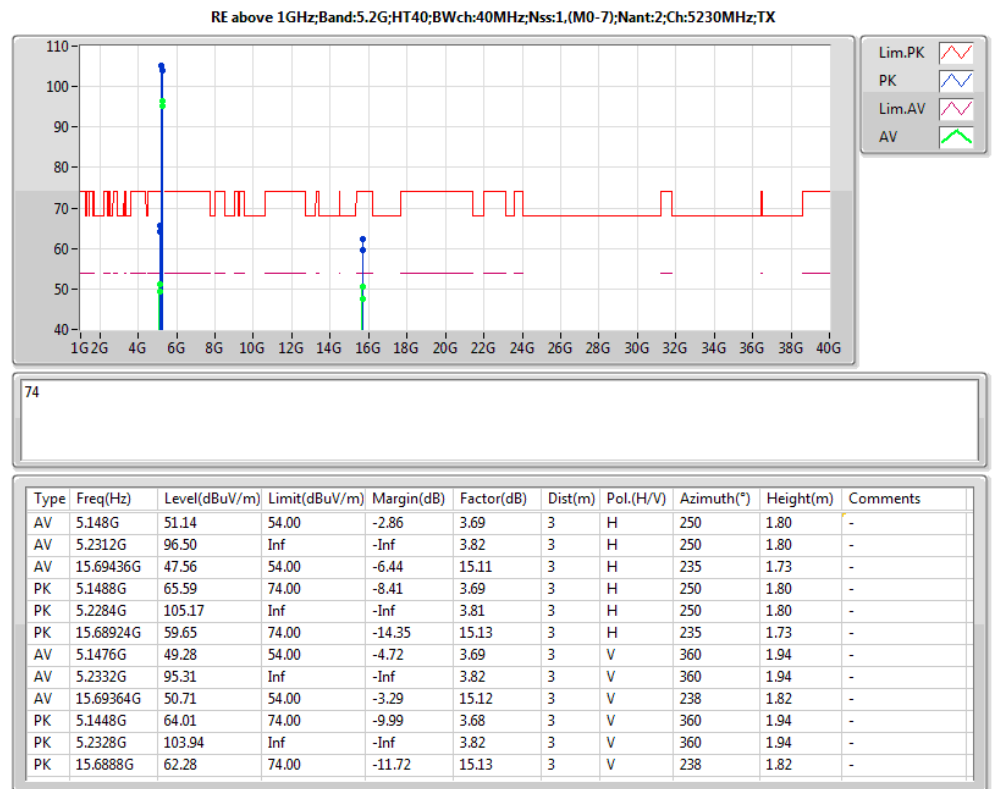
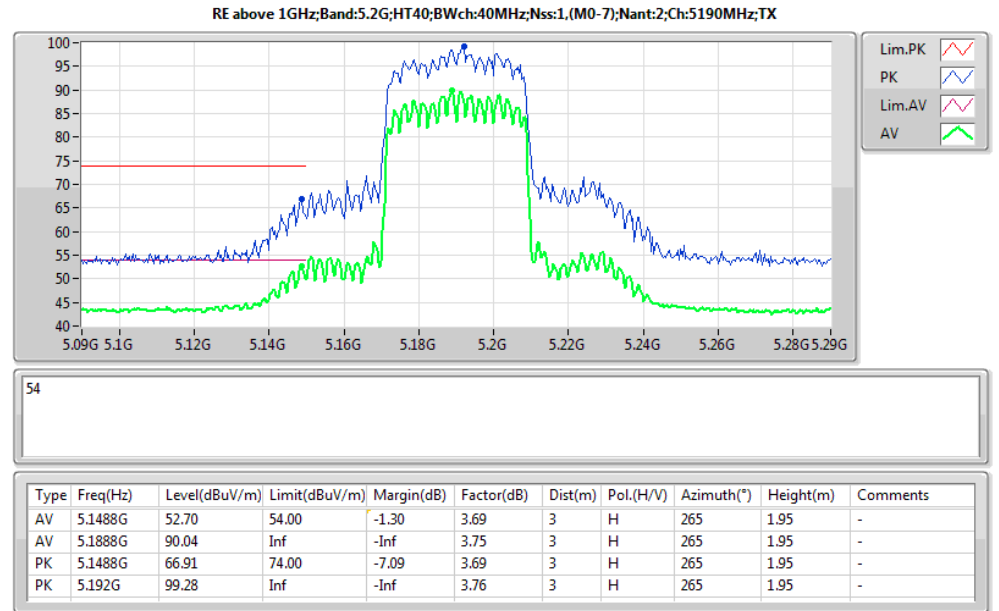
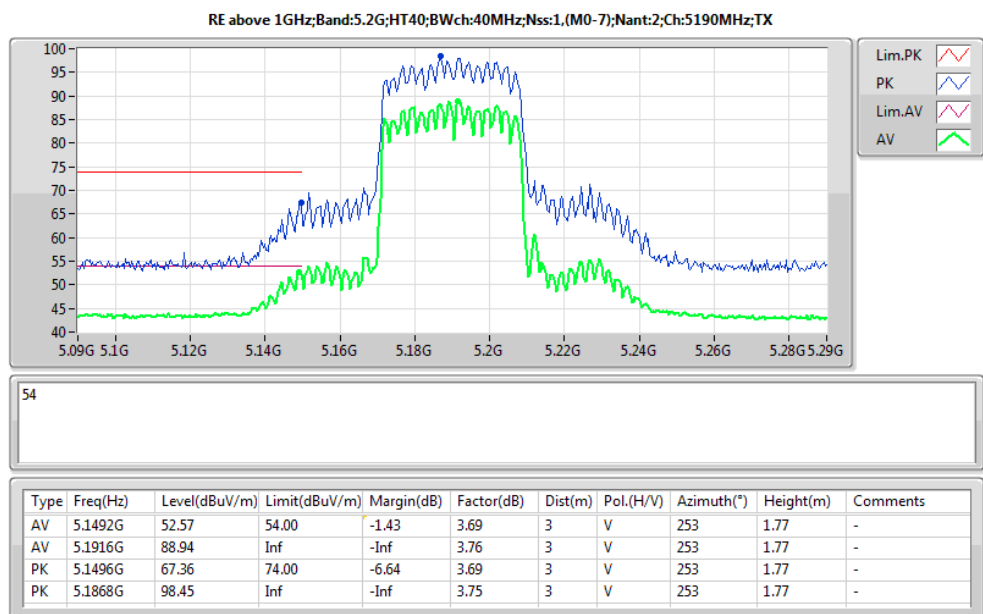
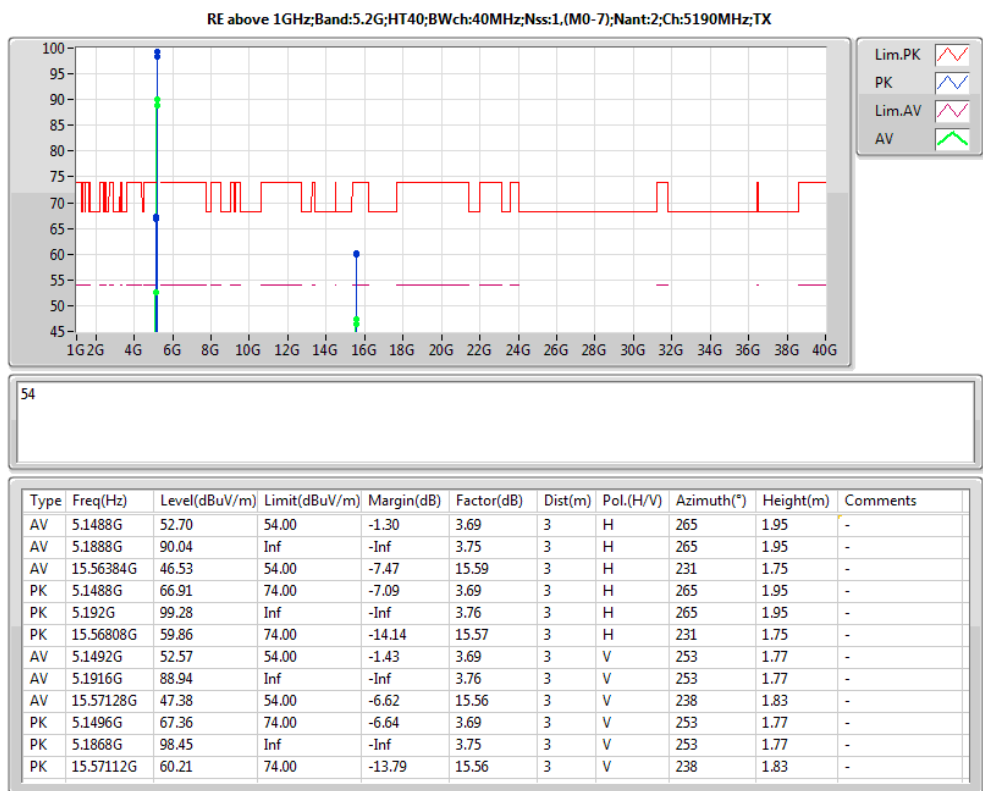
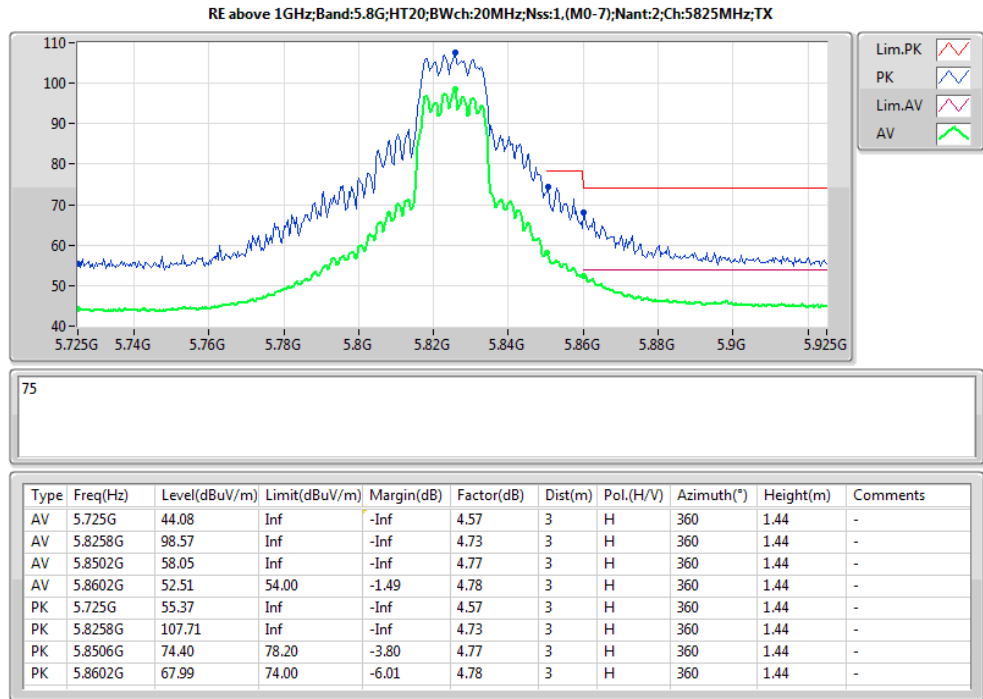


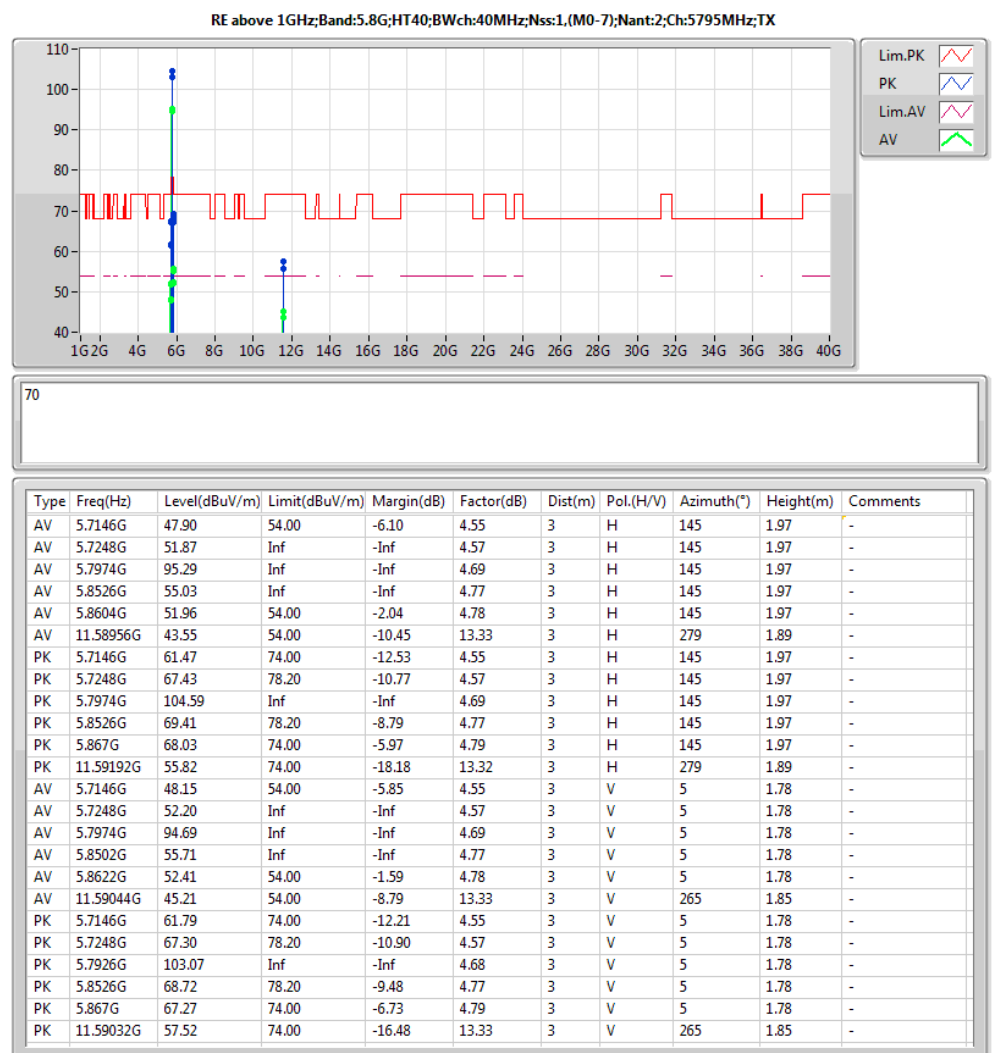
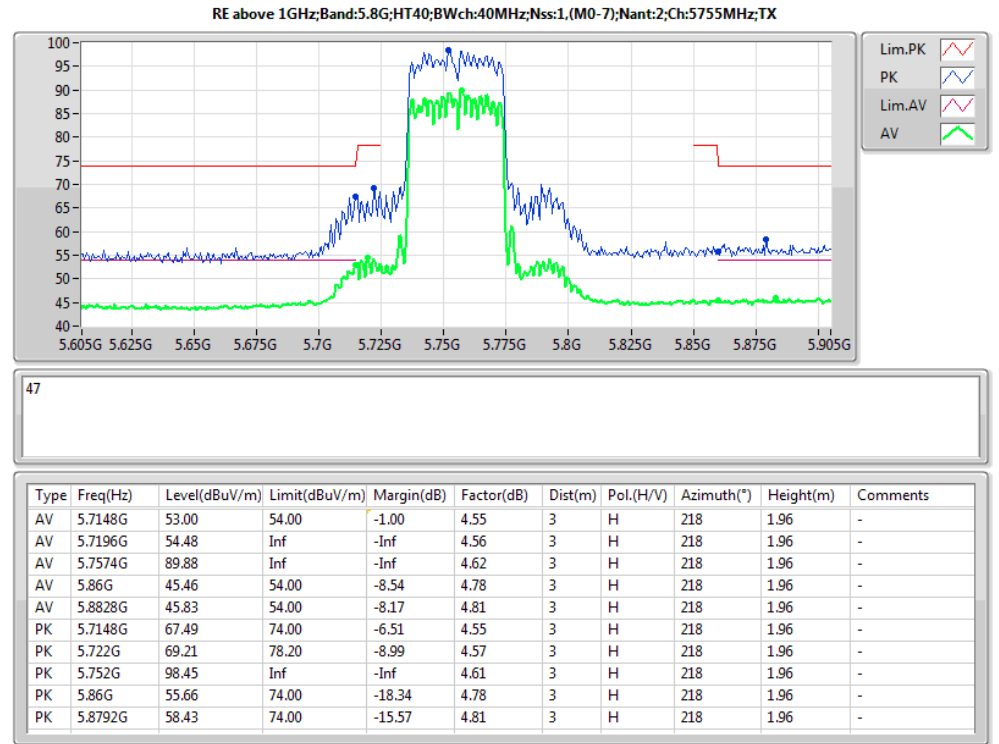
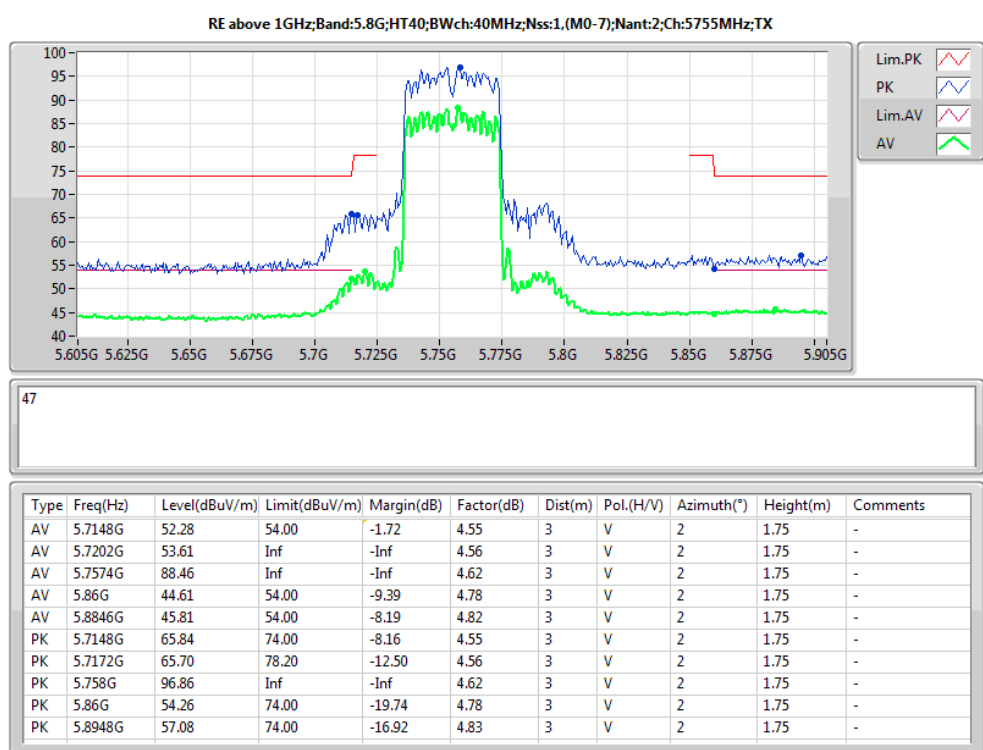
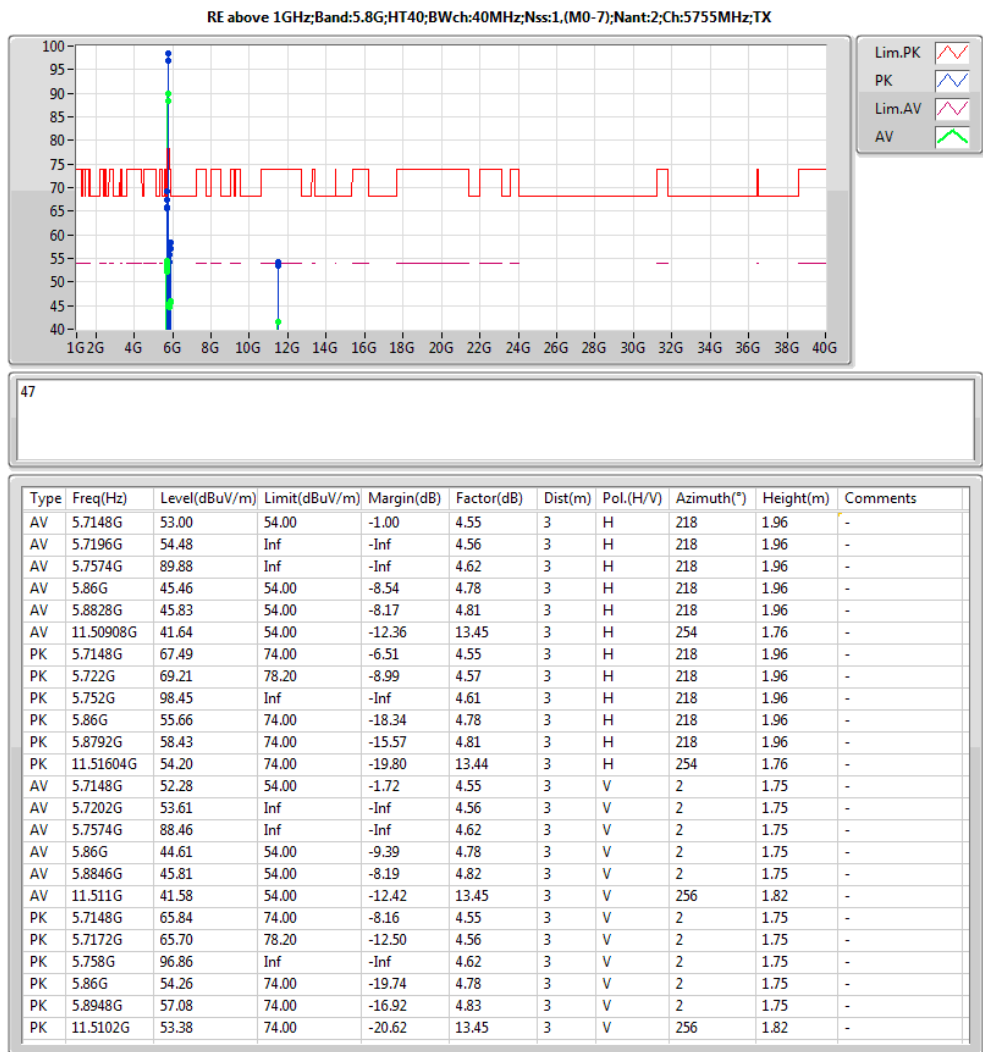
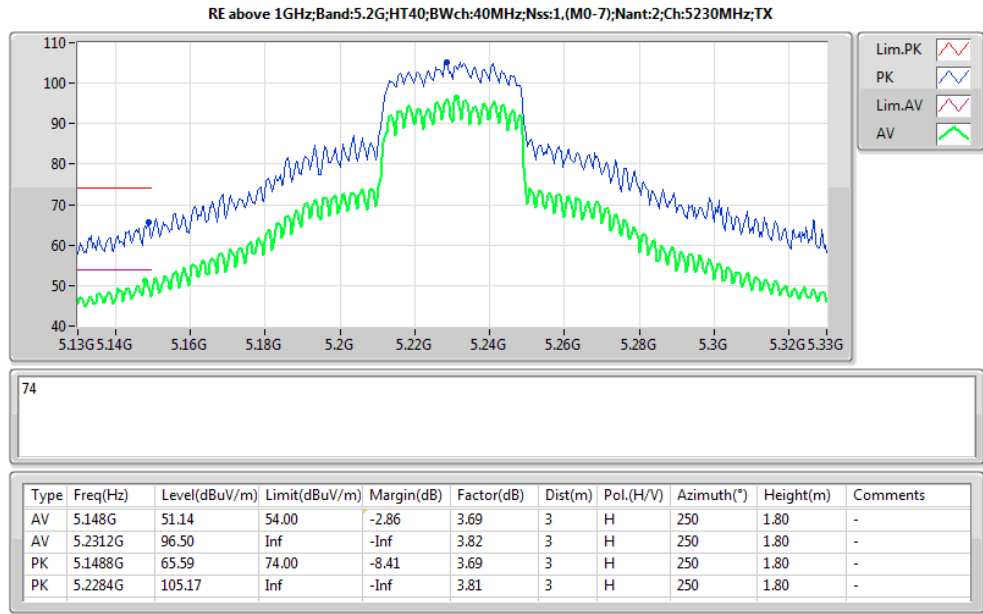


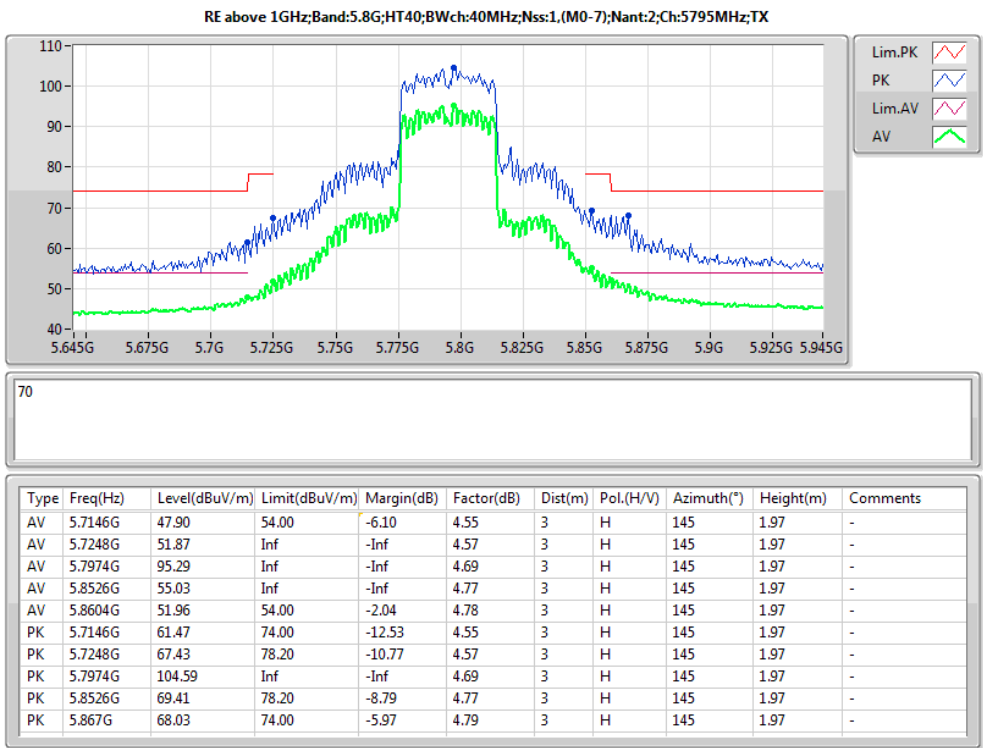
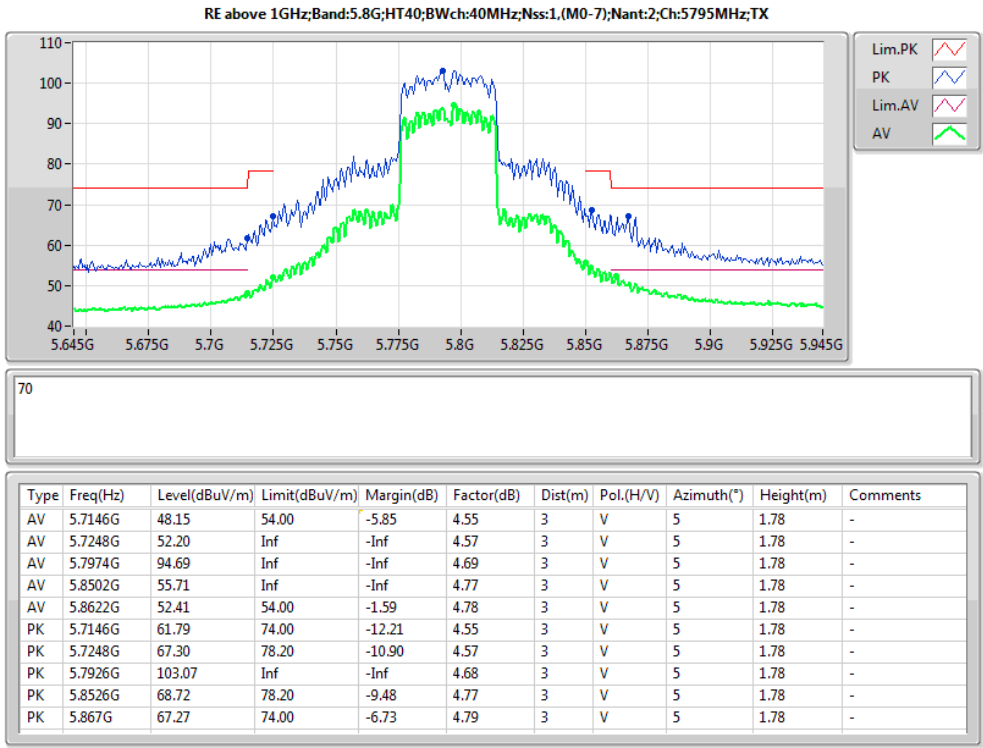














Mode: 20 MHz / Ant. 3 (P1)
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9991	5199.9984	5199.9974	5199.9966
110.00	5199.9986	5199.9984	5199.9981	5199.9980
93.50	5199.9981	5199.9972	5199.9963	5199.9959
Max. Deviation (MHz)	0.0019	0.0028	0.0037	0.0041
Max. Deviation (ppm)	0.37	0.54	0.71	0.79
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-30	5200.0004	5199.9994	5199.9987	5199.9985
-20	5200.0005	5200.0003	5199.9999	5199.9998
-10	5200.0006	5200.0005	5200.0001	5199.9992
0	5200.0005	5199.9997	5199.9991	5199.9983
10	5199.9887	5199.9885	5199.9877	5199.9867
20	5199.9986	5199.9985	5199.9978	5199.9973
30	5199.9984	5199.9976	5199.9966	5199.9960
40	5199.9986	5199.9978	5199.9972	5199.9969
50	5199.9984	5199.9981	5199.9974	5199.9970
Max. Deviation (MHz)	0.0113	0.0115	0.0123	0.0133
Max. Deviation (ppm)	2.17	2.21	2.37	2.56
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9992	5784.9985	5784.9975	5784.9968
110.00	5784.9986	5784.9983	5784.9975	5784.9971
93.50	5784.9983	5784.9979	5784.9974	5784.9970
Max. Deviation (MHz)	0.0017	0.0021	0.0026	0.0032
Max. Deviation (ppm)	0.29	0.36	0.45	0.55
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-30	5785.0028	5785.0023	5785.0016	5785.0009
-20	5785.0019	5785.0015	5785.0012	5785.0004
-10	5785.0004	5784.9995	5784.9990	5784.9980
0	5785.0003	5784.9998	5784.9996	5784.9992
10	5784.9996	5784.9988	5784.9978	5784.9973
20	5784.9986	5784.9981	5784.9971	5784.9970
30	5784.9984	5784.9983	5784.9976	5784.9973
40	5784.9966	5784.9962	5784.9959	5784.9958
50	5784.9949	5784.9945	5784.9935	5784.9933
Max. Deviation (MHz)	0.0051	0.0055	0.0065	0.0067
Max. Deviation (ppm)	0.88	0.95	1.12	1.16
Result	Pass			

Mode: 40 MHz / Ant. 3 (P1)
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9994	5189.9990	5189.9980	5189.9973
110.00	5189.9986	5189.9979	5189.9978	5189.9971
93.50	5189.9979	5189.9970	5189.9968	5189.9966
Max. Deviation (MHz)	0.0021	0.0030	0.0032	0.0034
Max. Deviation (ppm)	0.40	0.58	0.62	0.66
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-30	5190.0038	5190.0030	5190.0023	5190.0017
-20	5190.0019	5190.0015	5190.0007	5190.0000
-10	5190.0002	5189.9996	5189.9989	5189.9987
0	5189.9998	5189.9994	5189.9988	5189.9987
10	5189.9989	5189.9985	5189.9978	5189.9974
20	5189.9986	5189.9979	5189.9970	5189.9966
30	5189.9984	5189.9979	5189.9971	5189.9968
40	5189.9972	5189.9966	5189.9962	5189.9959
50	5189.9955	5189.9946	5189.9936	5189.9929
Max. Deviation (MHz)	0.0045	0.0054	0.0064	0.0071
Max. Deviation (ppm)	0.87	1.04	1.23	1.37
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9993	5754.9991	5754.9985	5754.9984
110.00	5754.9986	5754.9985	5754.9984	5754.9982
93.50	5754.9981	5754.9979	5754.9974	5754.9964
Max. Deviation (MHz)	0.0019	0.0021	0.0026	0.0036
Max. Deviation (ppm)	0.33	0.36	0.45	0.63
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-30	5755.0030	5755.0027	5755.0025	5755.0023
-20	5755.0022	5755.0021	5755.0016	5755.0012
-10	5755.0020	5755.0015	5755.0010	5755.0000
0	5755.0017	5755.0016	5755.0007	5754.9998
10	5755.0003	5754.9998	5754.9991	5754.9984
20	5754.9986	5754.9981	5754.9974	5754.9971
30	5754.9984	5754.9974	5754.9967	5754.9960
40	5754.9970	5754.9964	5754.9958	5754.9957
50	5754.9950	5754.9940	5754.9935	5754.9931
Max. Deviation (MHz)	0.0050	0.0060	0.0065	0.0069
Max. Deviation (ppm)	0.87	1.04	1.13	1.20
Result	Pass			

Mode: 80 MHz / Ant. 3 (P1)
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9989	5209.9985	5209.9979	5209.9975
110.00	5209.9986	5209.9980	5209.9978	5209.9976
93.50	5209.9977	5209.9975	5209.9971	5209.9970
Max. Deviation (MHz)	0.0023	0.0025	0.0029	0.0030
Max. Deviation (ppm)	0.44	0.48	0.56	0.58
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-30	5210.0037	5210.0030	5210.0028	5210.0023
-20	5210.0022	5210.0014	5210.0006	5210.0003
-10	5210.0012	5210.0010	5210.0006	5209.9999
0	5210.0003	5209.9993	5209.9991	5209.9983
10	5209.9999	5209.9997	5209.9994	5209.9991
20	5209.9986	5209.9979	5209.9974	5209.9964
30	5209.9984	5209.9974	5209.9968	5209.9960
40	5209.9974	5209.9965	5209.9957	5209.9947
50	5209.9961	5209.9951	5209.9941	5209.9940
Max. Deviation (MHz)	0.0039	0.0049	0.0059	0.0060
Max. Deviation (ppm)	0.75	0.94	1.13	1.15
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9995	5774.9991	5774.9981	5774.9975
110.00	5774.9986	5774.9977	5774.9970	5774.9963
93.50	5774.9983	5774.9982	5774.9973	5774.9965
Max. Deviation (MHz)	0.0017	0.0023	0.0030	0.0037
Max. Deviation (ppm)	0.29	0.40	0.52	0.64
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-30	5775.0025	5775.0019	5775.0013	5775.0003
-20	5775.0022	5775.0018	5775.0016	5775.0006
-10	5775.0008	5774.9999	5774.9992	5774.9986
0	5774.9996	5774.9992	5774.9989	5774.9981
10	5774.9991	5774.9989	5774.9986	5774.9979
20	5774.9986	5774.9976	5774.9968	5774.9960
30	5774.9984	5774.9979	5774.9977	5774.9973
40	5774.9977	5774.9974	5774.9968	5774.9967
50	5774.9960	5774.9950	5774.9940	5774.9933
Max. Deviation (MHz)	0.0040	0.0050	0.0060	0.0067
Max. Deviation (ppm)	0.69	0.87	1.04	1.16
Result	Pass			