

FCC Test Report

Equipment : IEEE 802.11 1X1 ac/a/b/g/n Wireless LAN +Bluetooth
NGFF Module

Brand Name : AzureWave

Model No. : AW-CM286NF

FCC ID : TLZ-CM286NF

Standard : 47 CFR FCC Part 15.407

Operating Band : 5150 MHz – 5250 MHz
5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
5725 MHz – 5850 MHz

Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei
City , Taiwan 231

Manufacturer : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei
City , Taiwan 231

Function : ☐ Outdoor; ☐ Indoor; ☐ Fixed P2P
☒ Client

TPC Function : ☐ With TPC ☒ Without TPC

The product sample received on Nov. 03, 2016 and completely tested on Nov. 22, 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.


Cliff Chang
SPORTON INTERNATIONAL INC.



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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

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.2G	11a	20	1
5.2G	VHT20	20	1
5.2G	VHT40	40	1
5.2G	VHT80	80	1
5.3G	11a	20	1
5.3G	VHT20	20	1
5.3G	VHT40	40	1
5.3G	VHT80	80	1
5.6G	11a	20	1
5.6G	VHT20	20	1
5.6G	VHT40	40	1
5.6G	VHT80	80	1
5.8G	11a	20	1
5.8G	VHT20	20	1
5.8G	VHT40	40	1
5.8G	VHT80	80	1

Note:

- ♦ 5.2G/5.2G-I(IC) is the 5.2GHz Band (5.15-5.25GHz).
- ♦ 5.3G/5.3G-I(IC) is the 5.3GHz Band (5.25-5.35GHz).
- ♦ 5.6G is the 5.6GHz Band (5.47-5.725GHz) or w/o TDWR (5.47-5.6GHz and 5.65-5.725GHz).
- ♦ 5.6G-I(IC) is the 5.6GHz IC Band w/o TDWR (5.47-5.6GHz and 5.65-5.725GHz).
- ♦ 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.
- ♦ VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM 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 Holder	Brand Holder P/N	Antenna Type	Connector
1	Smart Approach Co.,Ltd.	SE-ECX10-001	PIFA Antenna	I-PEX
2	Smart Approach Co.,Ltd.	SE-ECX10-002	PIFA Antenna	I-PEX
3	Smart Approach Co.,Ltd.	SE-ECX10-003	PIFA Antenna	I-PEX
4	Smart Approach Co.,Ltd.	SE-ECX10-004	PIFA Antenna	I-PEX
5	Smart Approach Co.,Ltd.	SE-ECX10-005	PIFA Antenna	I-PEX
6	Smart Approach Co.,Ltd.	SE-ECX10-006	PIFA Antenna	I-PEX

Ant.	True Gain = antenna gain + cable loss (dBi)				
	2.4G	5G B1	5G B2	5G B3	5G B4
1	-0.94	1.42	1.42	0.58	2.16
2	-1.67	-0.29	-0.33	1.37	1.37
3	1.04	0.92	0.92	2.59	2.59
4	0.31	0.93	0.28	-1.11	-1.37
5	1.01	0.07	0.07	0.34	-0.68
6	0.64	0.38	-0.52	-0.49	-0.68

Note1: There are 6 antennas in the antenna table list. Ant.1~Ant.6 are the same type antennas, so only the higher gain antenna was tested. 2.4G and 5G Band 3 / Band 4 use Ant.3 for test, and 5G Band 1 / Band 2 use Ant.1 for test.

Note2: Chain 1 is designated for 2.4GHz / 5GHz WLAN function, Chain 2 is designated for bluetooth functions.

For 2.4GHz WLAN function:

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

Only Chain 1 can be used as transmitting/receiving functions.

Chain 1 connect to Ant. 1~Ant. 6 for 2.4G.

For 5GHz WLAN function:

For IEEE 802.11a/n/ac mode (1TX/1RX):

Only Chain 1 can be used as transmitting/receiving functions.

Chain 1 connect to Ant. 1~Ant. 6 for 5G.

For bluetooth function (1TX, 1RX):

Only Chain 2 can be used as transmitting/receiving functions.

Chain 2 connect to Ant. 1~Ant. 6 for bluetooth.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)
11a	1	n/a (DC>=0.98)
VHT20	1	n/a (DC>=0.98)
VHT40	1	n/a (DC>=0.98)
VHT80	1	n/a (DC>=0.98)

1.1.4 EUT Operational Condition

EUT Power Type	From Host System			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz

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 v01r04
- ♦ FCC KDB 644545 D03 v01
- ♦ 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	Gino Huang	22°C / 55%	Nov. 10, 2016
Radiated	03CH01-CB	Stim Song / Nyle Chang Zero Chen / Justin Lin	22°C / 54%	Nov. 08, 2016~Nov. 22, 2016
AC Conduction	CO01-CB	Edison Lin	24°C / 58%	Nov. 04, 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%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%
Frequency Stability	6.06×10^{-8}	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	1	5180	L	16
5.2G	11a	20	1	1	5200	M	20
5.2G	11a	20	1	1	5240	H	19
5.3G	11a	20	1	1	5260	L	20
5.3G	11a	20	1	1	5300	M	20
5.3G	11a	20	1	1	5320	H	15.5
5.6G	11a	20	1	1	5500	L	15.5
5.6G	11a	20	1	1	5580	M	20
5.6G	11a	20	1	1	5700	H	15
5.6G	11a	20	1	1	5720	C	7F
5.8G	11a	20	1	1	5720	C	7F
5.8G	11a	20	1	1	5745	L	20
5.8G	11a	20	1	1	5785	M	20
5.8G	11a	20	1	1	5825	H	20
5.2G	VHT20	20	1,(M0)	1	5180	L	16
5.2G	VHT20	20	1,(M0)	1	5200	M	20
5.2G	VHT20	20	1,(M0)	1	5240	H	17
5.3G	VHT20	20	1,(M0)	1	5260	L	20
5.3G	VHT20	20	1,(M0)	1	5300	M	17
5.3G	VHT20	20	1,(M0)	1	5320	H	16
5.6G	VHT20	20	1,(M0)	1	5500	L	15.5
5.6G	VHT20	20	1,(M0)	1	5580	M	20
5.6G	VHT20	20	1,(M0)	1	5700	H	16
5.6G	VHT20	20	1,(M0)	1	5720	C	7F
5.8G	VHT20	20	1,(M0)	1	5720	C	7F
5.8G	VHT20	20	1,(M0)	1	5745	L	20
5.8G	VHT20	20	1,(M0)	1	5785	M	20
5.8G	VHT20	20	1,(M0)	1	5825	H	20
5.2G	VHT40	40	1,(M0)	1	5190	L	14.5
5.2G	VHT40	40	1,(M0)	1	5230	H	17
5.3G	VHT40	40	1,(M0)	1	5270	L	17
5.3G	VHT40	40	1,(M0)	1	5310	H	14
5.6G	VHT40	40	1,(M0)	1	5510	L	11
5.6G	VHT40	40	1,(M0)	1	5550	M	17
5.6G	VHT40	40	1,(M0)	1	5670	H	11.5
5.6G	VHT40	40	1,(M0)	1	5710	C	7F
5.8G	VHT40	40	1,(M0)	1	5710	C	7F

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
5.8G	VHT40	40	1,(M0)	1	5755	L	20
5.8G	VHT40	40	1,(M0)	1	5795	H	20
5.2G	VHT80	80	1,(M0)	1	5210	S	7.5
5.3G	VHT80	80	1,(M0)	1	5290	S	7.5
5.6G	VHT80	80	1,(M0)	1	5530	L	9
5.6G	VHT80	80	1,(M0)	1	5610	H	15
5.6G	VHT80	80	1,(M0)	1	5690	C	5E
5.8G	VHT80	80	1,(M0)	1	5690	C	5E
5.8G	VHT80	80	1,(M0)	1	5775	S	14

Note:

- ♦ Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch.) and C (Straddle Band Ch.).
- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

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
1	Normal Link - 2.4G + Bluetooth
2	Normal Link - 5G + Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	

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
1	EUT in Y axis - 2.4G + Bluetooth
2	EUT in Z axis - 2.4G + Bluetooth
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Z axis - 5G + Bluetooth
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed in X axis, Y axis and Z axis position. The worst case was found in X axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in X axis - 5G

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz
Refer to Sporton Test Report No.: FA6O2108 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AP Router	Planex	GW-AP54SGX	KA220030603014-1
2	NB	DELL	E6430	DoC
3	CBT Bluetooth tester	Anritsu	MT8852B	DoC
4	NB	DELL	E6430	DoC
5	Test fixture	AzureWave	NA	DoC
6	Earphone	SHYARO CHI	MIC-04	DoC
7	Mouse	HP	FM100	DoC
8	USB Hub	iCooby	iH-19	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AP Router	Planex	GW-AP54SGX	KA220030603014-1
2	NB	DELL	E6430	DoC
3	CBT Bluetooth tester	Anritsu	MT8852B	DoC
4	NB	DELL	E6430	DoC
5	Test fixture	AzureWave	NA	DoC
6	Earphone	SHYARO CHI	MIC-04	DoC
7	Mouse	HP	FM100	DoC

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

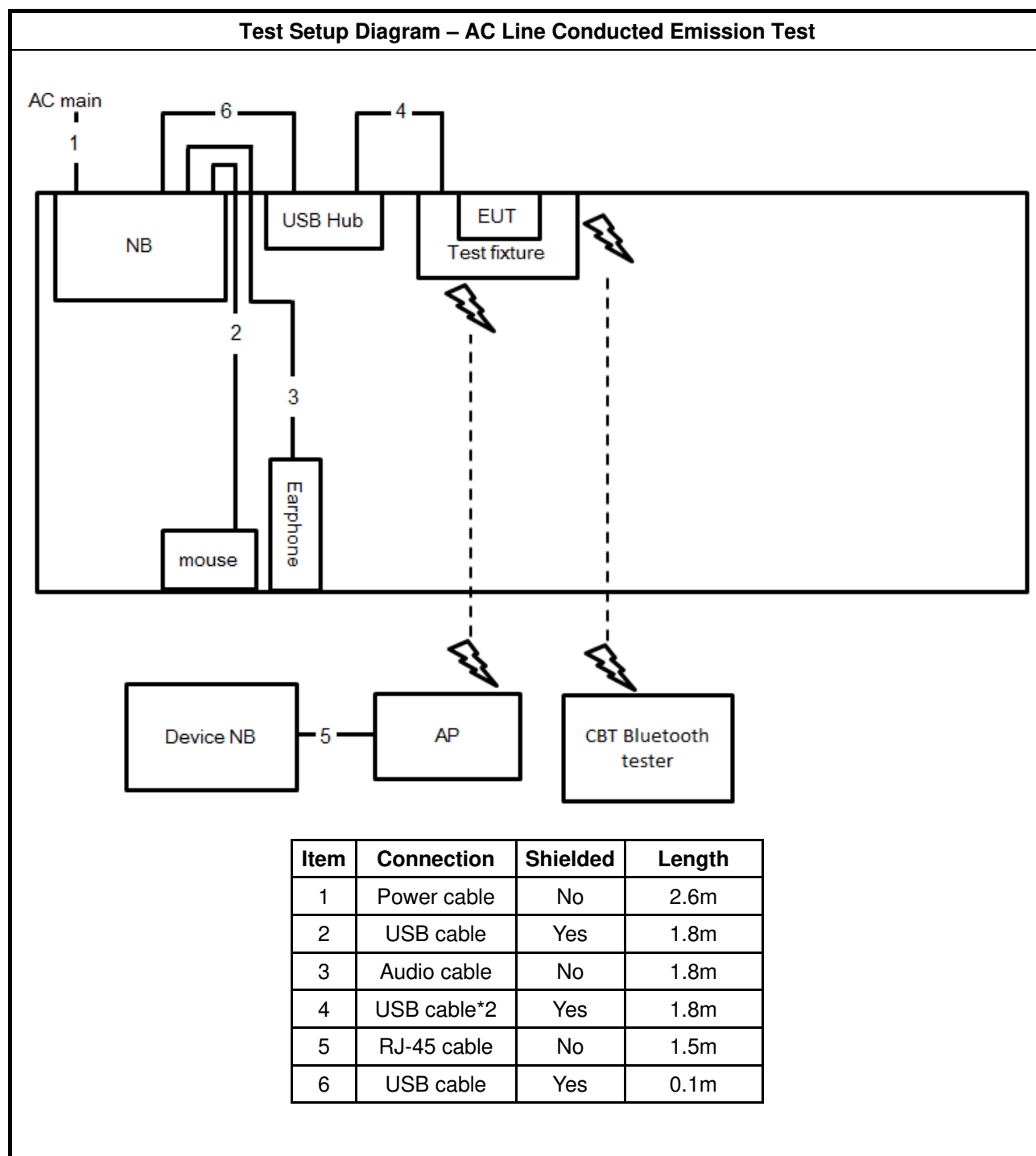
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	Test fixture	AzureWave	N/A	DoC

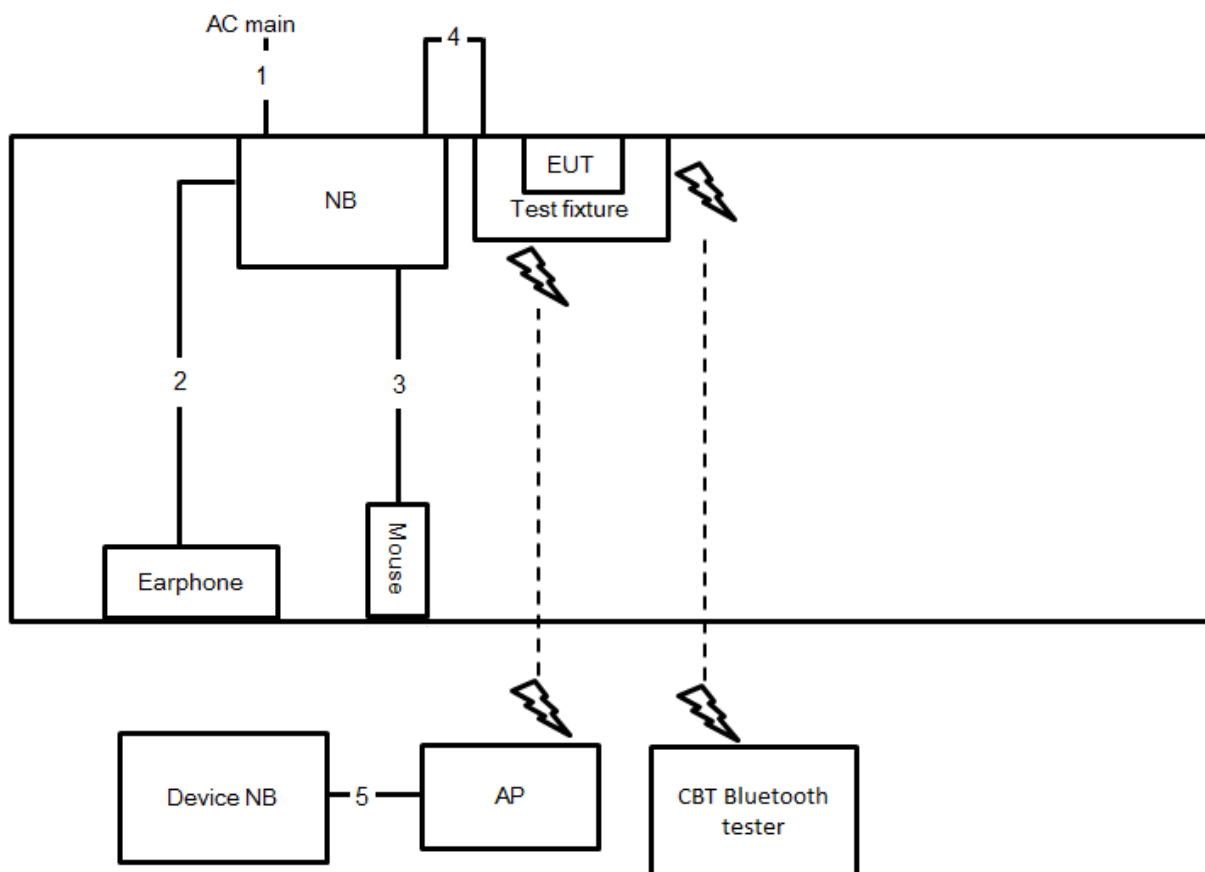


For Test Site No: TH01-CB

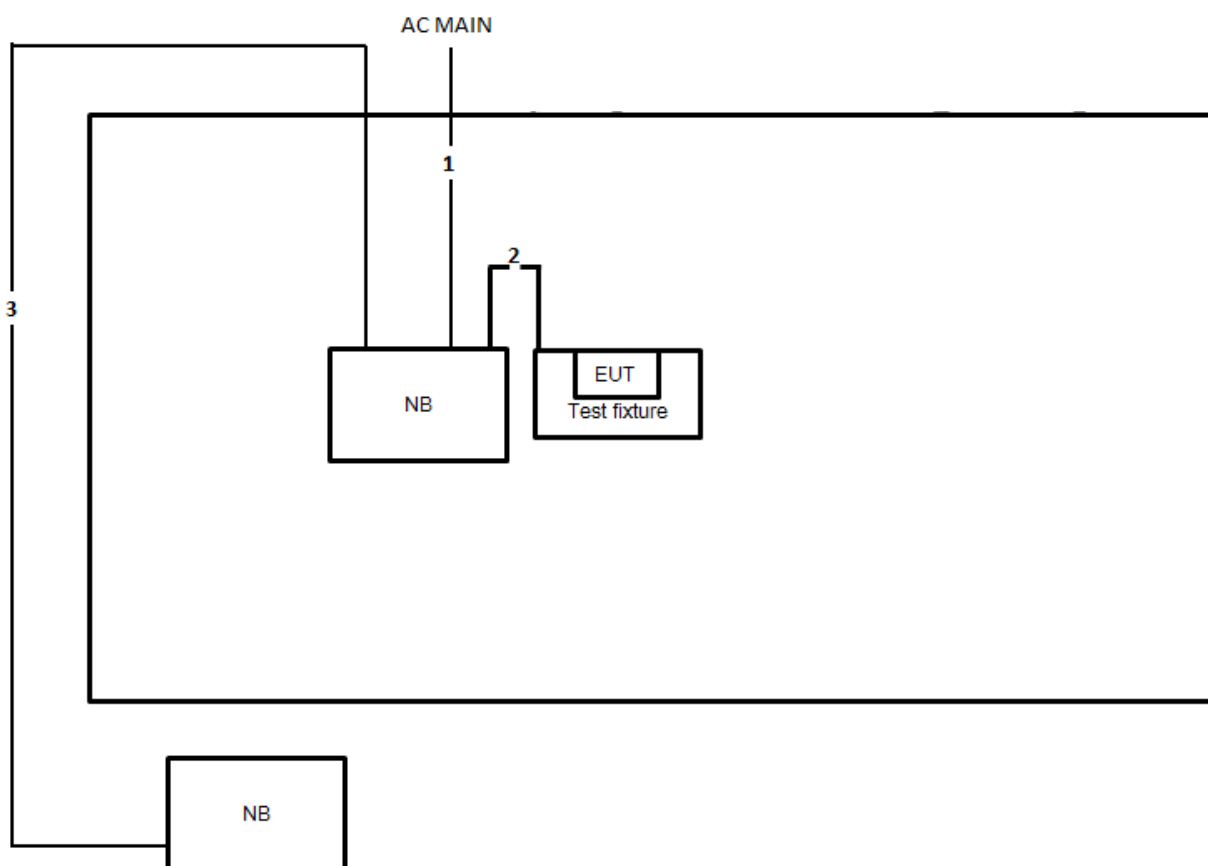
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	Test fixture	AzureWave	N/A	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	Audio cable	No	1.8m
3	USB cable	Yes	1.8m
4	USB cable*2	Yes	1.8m
5	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	RJ-45 cable	No	1.5m
3	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.

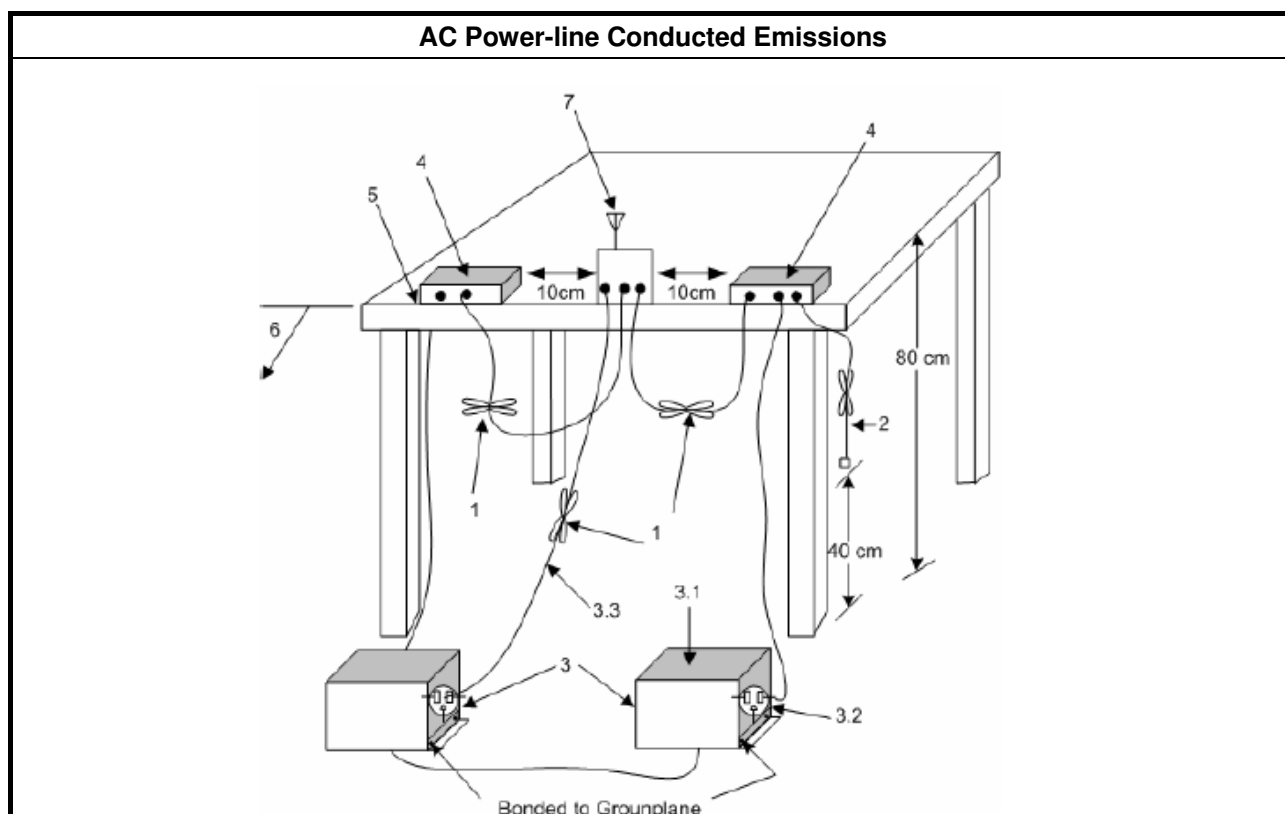
3.1.2 Measuring Instruments

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.

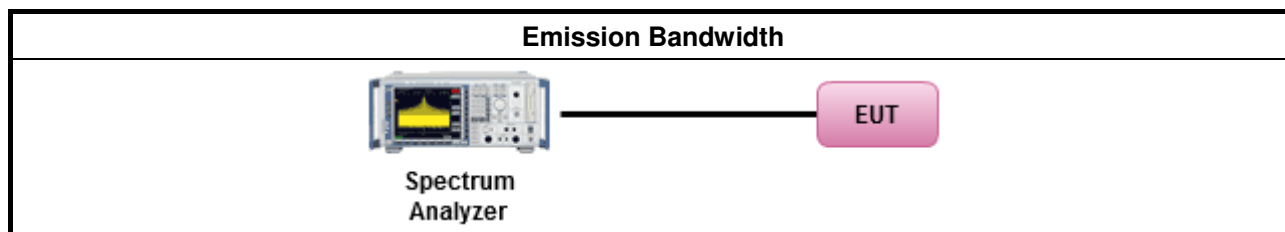
3.2.2 Measuring Instruments

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, 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 $11 \text{ dBm} + 10 \log B$, 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 $11 \text{ dBm} + 10 \log B$, 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

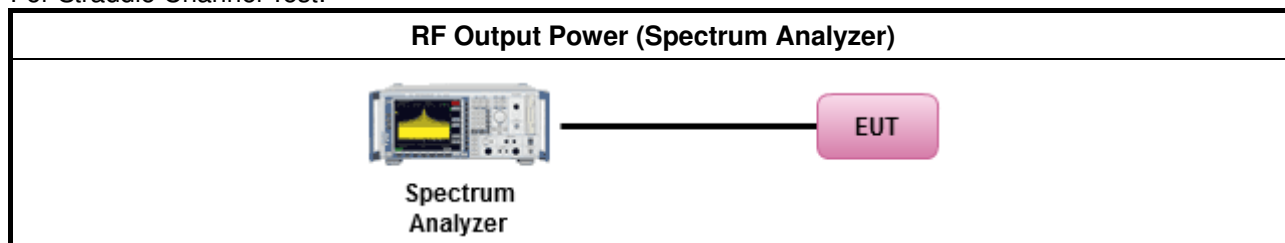
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

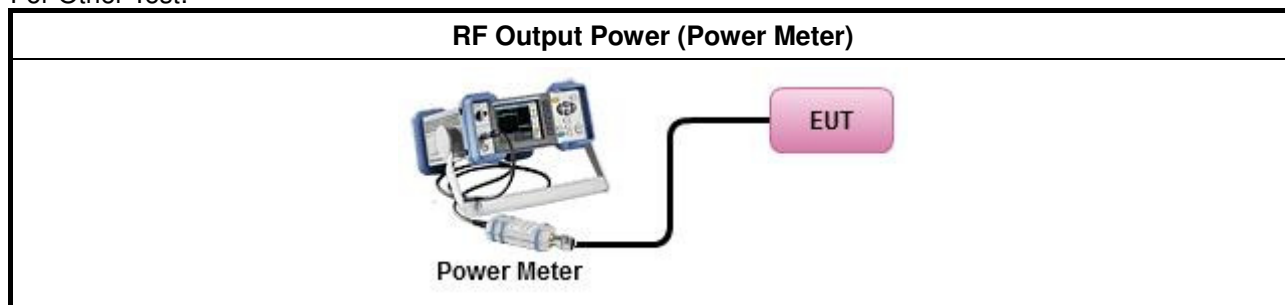
Test Method	
Maximum Conducted Output Power	
Average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup

For Straddle Channel Test:



For Other Test:



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.	

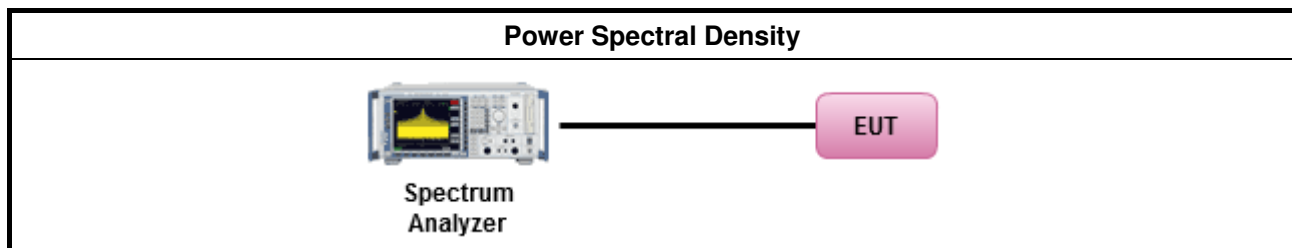
3.4.2 Measuring Instruments

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, F5) 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, clause E Method SA-1 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, 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, clause E Method SA-2 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, 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	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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).

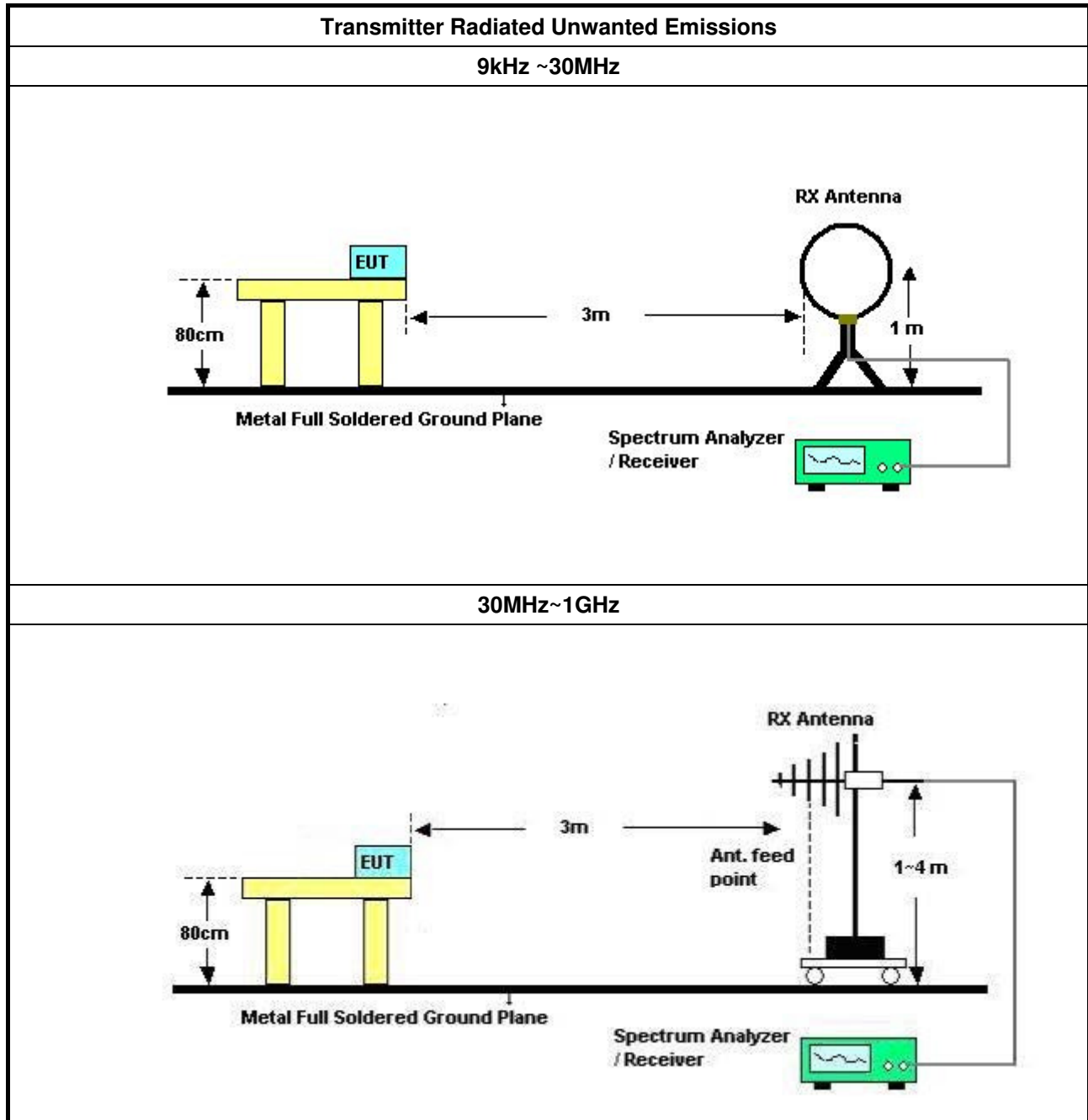
3.5.2 Measuring Instruments

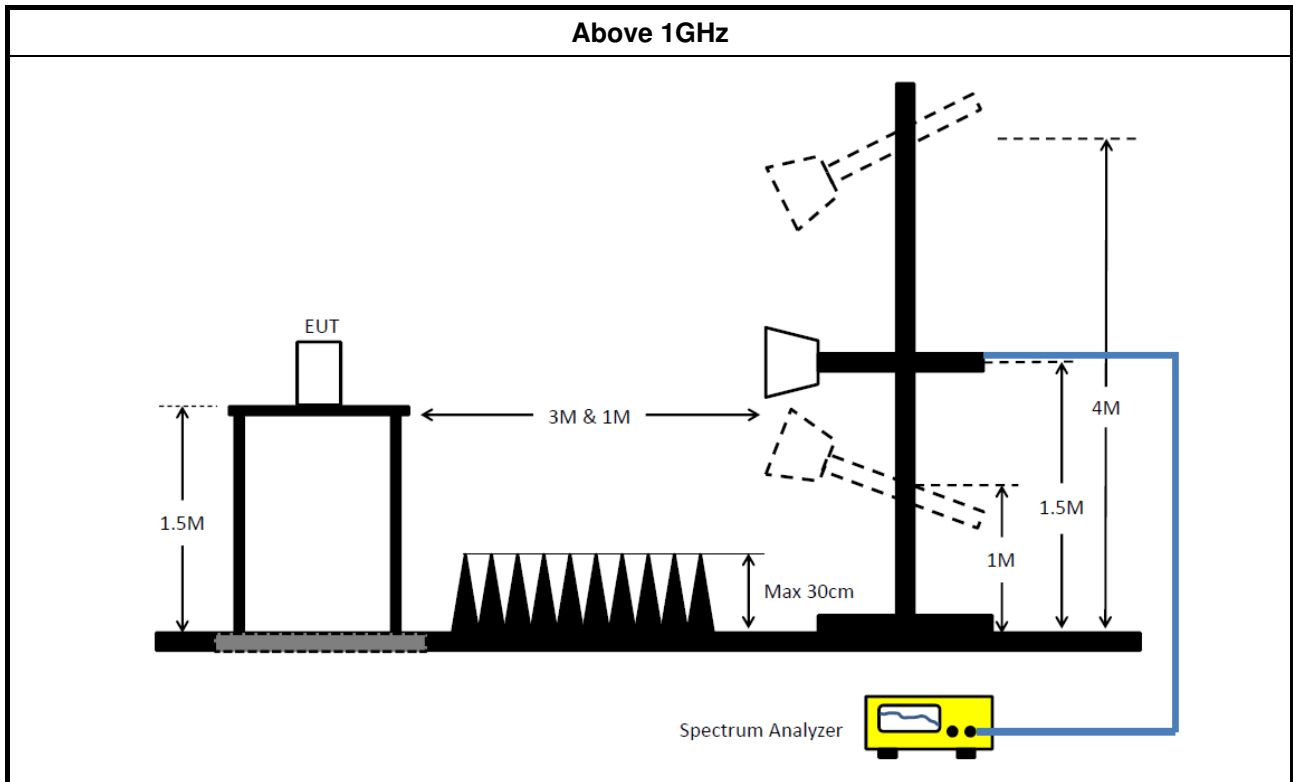
Refer a test equipment and calibration data table in this test report.

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, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, 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, 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





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.

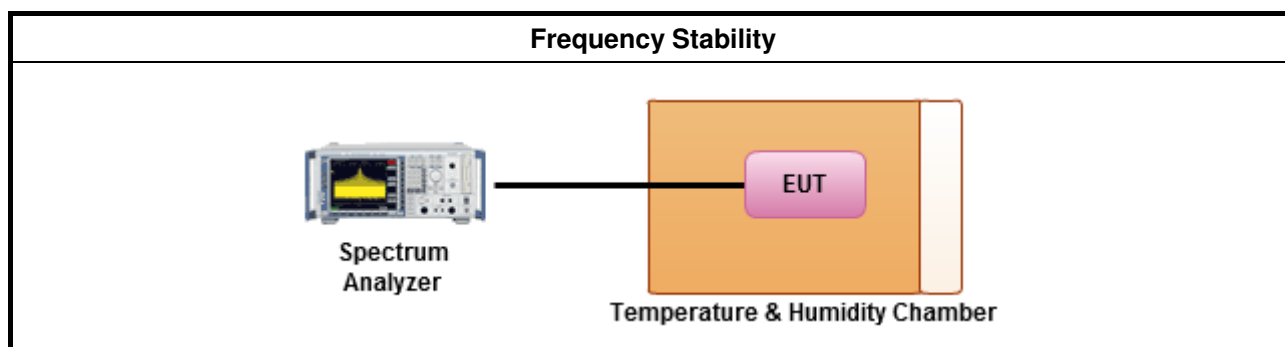
3.6.2 Measuring Instruments

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 $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$.

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, 2016	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 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
BILOG ANTENNA	TESEQ	CBL6112D	37880	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jul. 07, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	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	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY54320015	50MHz~18GHz	Apr. 20, 2016	Conducted (TH01-CB)

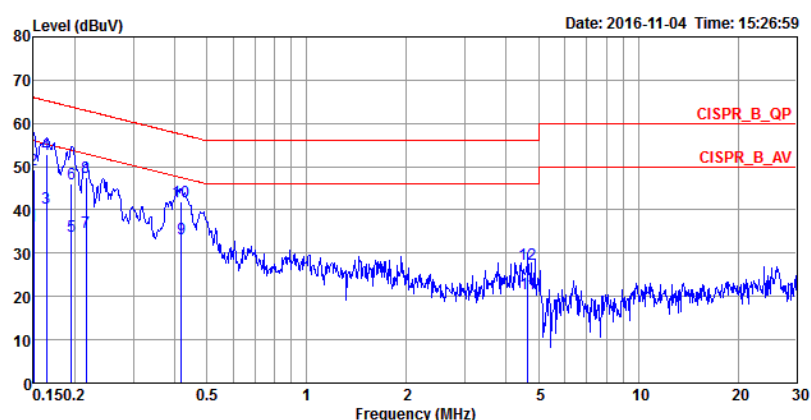
Note: Calibration Interval of instruments listed above is one year.

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

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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Normal Link		

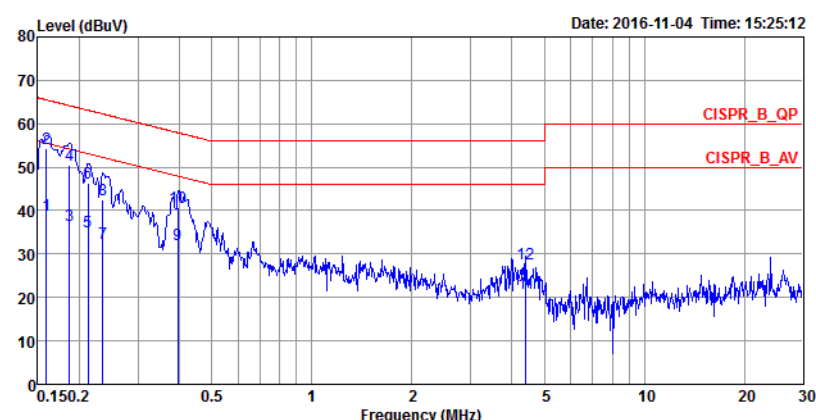


	Freq	Level	Over	Limit	Read	LISN		
	MHz	dBuV	Limit	Line	Level	Factor	Remark	Pol/Phase
			dB	dBuV	dBuV	dB		
1	0.1500	36.31	-19.69	56.00	26.19	9.96	Average	NEUTRAL
2	0.1500	49.21	-16.79	66.00	39.09	9.96	QP	NEUTRAL
3	0.1641	40.35	-14.90	55.25	30.23	9.96	Average	NEUTRAL
4	0.1641	52.79	-12.46	65.25	42.67	9.96	QP	NEUTRAL
5	0.1955	34.08	-19.72	53.80	23.94	9.96	Average	NEUTRAL
6	0.1955	46.19	-17.61	63.80	36.05	9.96	QP	NEUTRAL
7	0.2162	34.89	-18.07	52.96	24.75	9.96	Average	NEUTRAL
8	0.2162	47.64	-15.32	62.96	37.50	9.96	QP	NEUTRAL
9	0.4193	33.43	-14.03	47.46	23.26	9.97	Average	NEUTRAL
10	0.4193	41.83	-15.63	57.46	31.66	9.97	QP	NEUTRAL
11	4.6469	20.72	-25.28	46.00	10.34	10.04	Average	NEUTRAL
12	4.6469	27.55	-28.45	56.00	17.17	10.04	QP	NEUTRAL

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Normal Link		



	Freq	Level	Over	Limit	Read	LISN		
	MHz	dBuV	Limit	Line	Level	Factor	Remark	Pol/Phase
			dB	dBuV	dBuV	dB		
1	0.1590	39.01	-16.51	55.52	28.89	9.96	Average	LINE
2	0.1590	54.29	-11.23	65.52	44.17	9.96	QP	LINE
3	0.1864	36.67	-17.53	54.20	26.54	9.95	Average	LINE
4	0.1864	50.35	-13.85	64.20	40.22	9.95	QP	LINE
5	0.2128	35.01	-18.09	53.10	24.87	9.96	Average	LINE
6	0.2128	46.46	-16.64	63.10	36.32	9.96	QP	LINE
7	0.2353	32.54	-19.72	52.26	22.39	9.96	Average	LINE
8	0.2353	42.62	-19.64	62.26	32.47	9.96	QP	LINE
9	0.3955	32.08	-15.87	47.95	21.87	10.01	Average	LINE
10	0.3955	40.71	-17.24	57.95	30.50	10.01	QP	LINE
11	4.4071	20.85	-25.15	46.00	10.41	10.11	Average	LINE
12	4.4071	27.82	-28.18	56.00	17.38	10.11	QP	LINE

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



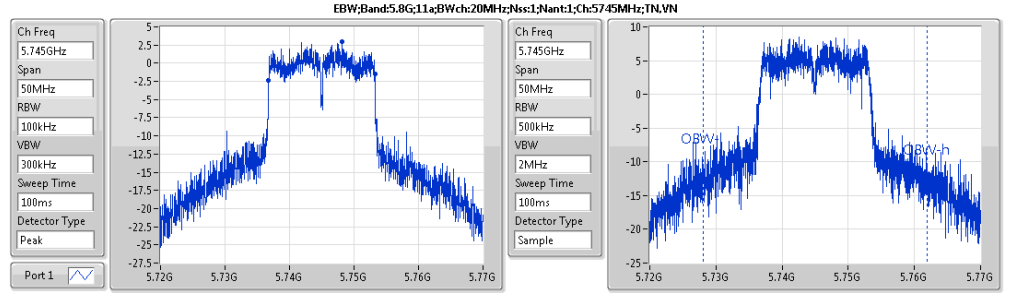
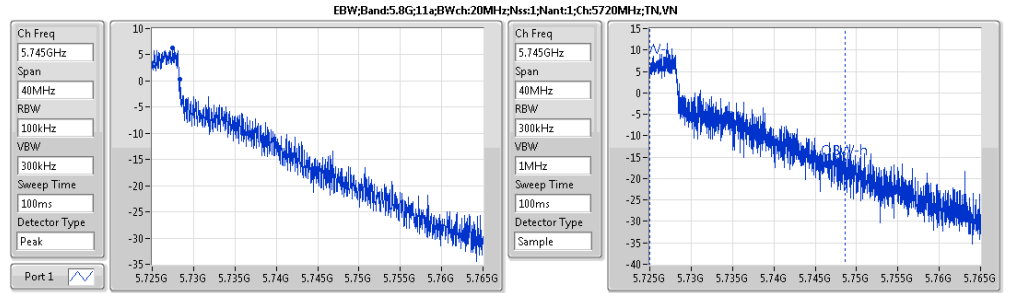
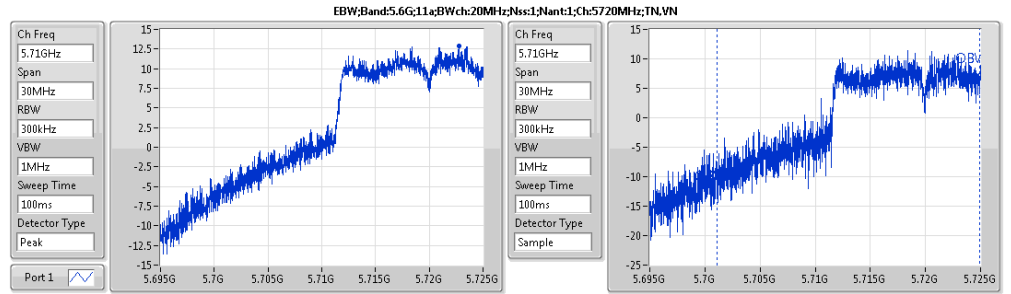
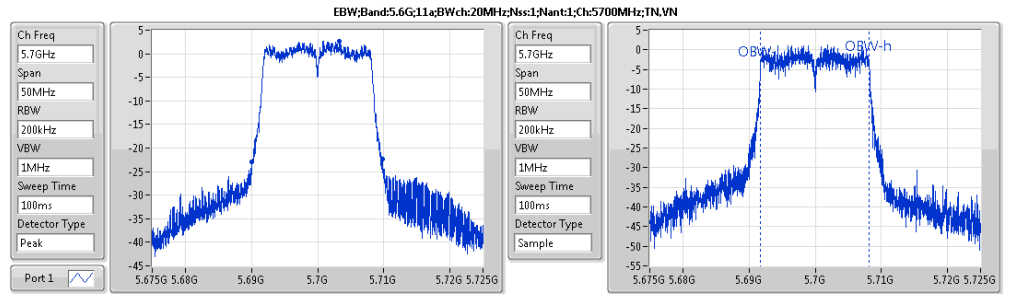
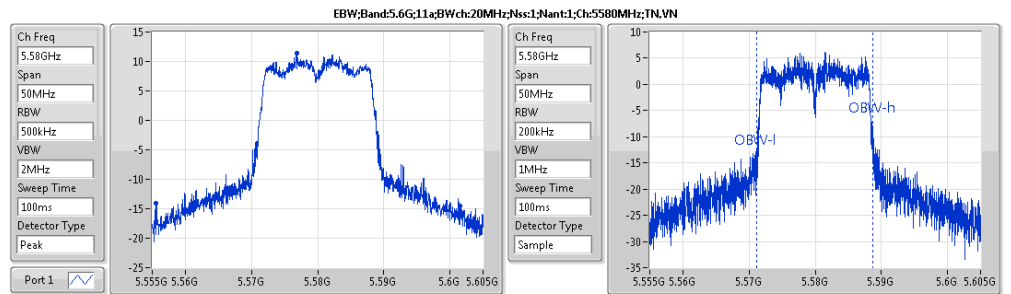
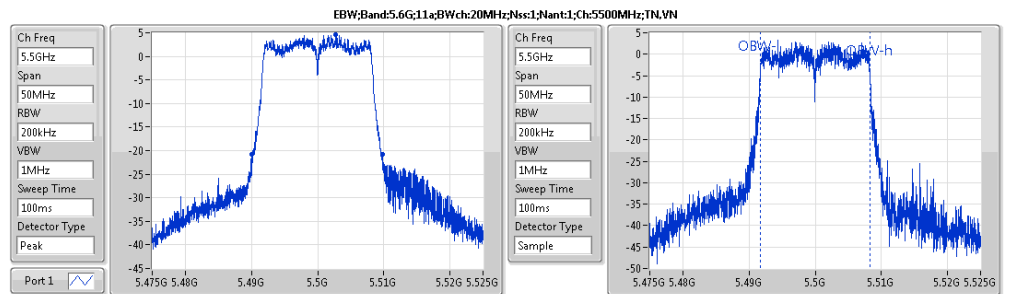
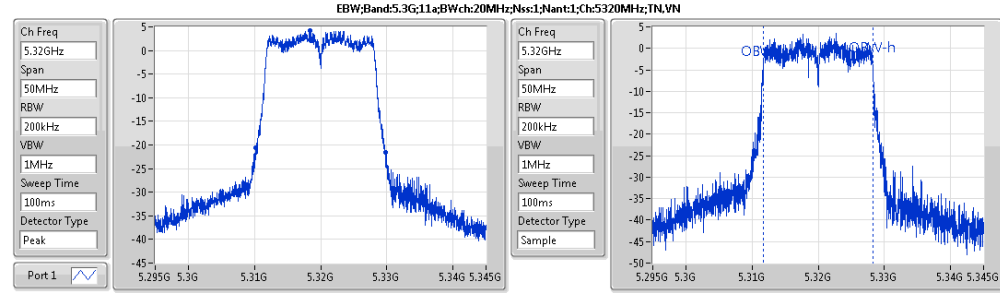
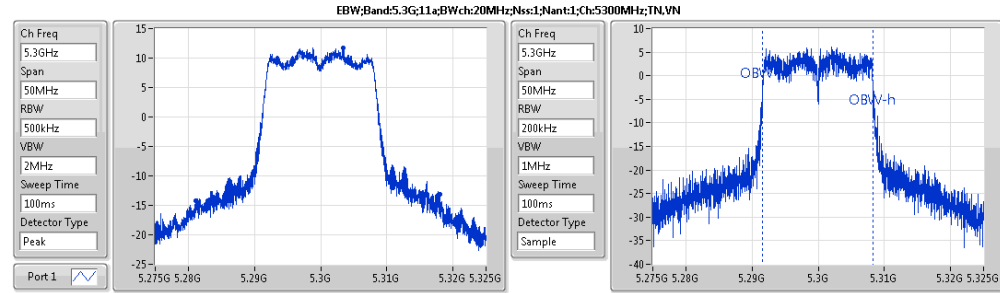
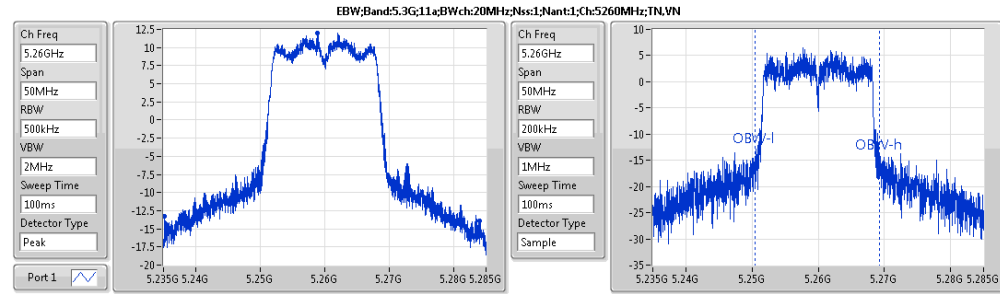
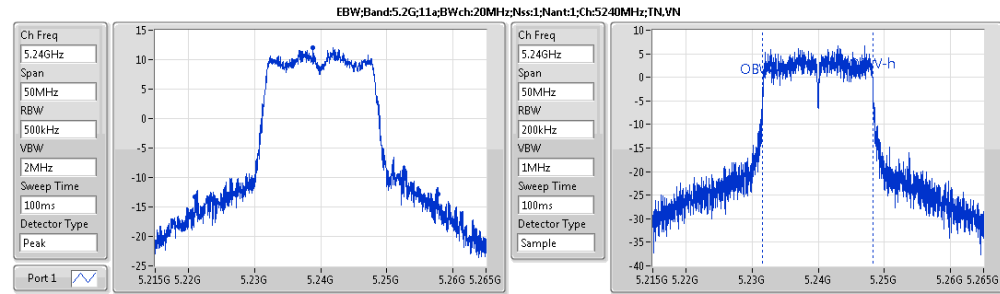
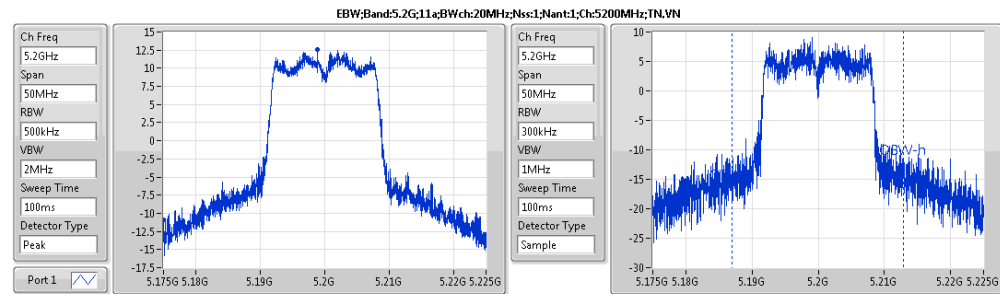
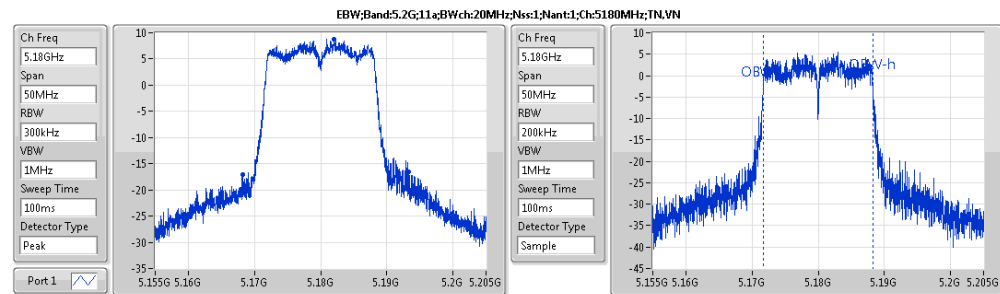
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.2G;11a;Nss1;Ntx1	49.95M	25.887M	25M9D1D	25.175M	16.567M
5.3G;11a;Nss1;Ntx1	48.875M	18.791M	18M8D1D	19.625M	16.542M
5.6G;11a;Nss1;Ntx1	45.9M	23.793M	23M8D1D	19.75M	16.492M
5.8G;11a;Nss1;Ntx1	16.5M	35.407M	35M4D1D	3.3M	23.628M
5.2G;VHT20;Nss1,(M0);Ntx1	42.55M	17.866M	17M9D1D	25.975M	17.666M
5.3G;VHT20;Nss1,(M0);Ntx1	49.725M	21.039M	21M0D1D	46.625M	18.091M
5.6G;VHT20;Nss1,(M0);Ntx1	43.075M	24.813M	24M8D1D	20.425M	17.616M
5.8G;VHT20;Nss1,(M0);Ntx1	17.775M	32.459M	32M5D1D	3.86M	25.067M
5.2G;VHT40;Nss1,(M0);Ntx1	70.55M	36.182M	36M2D1D	41.05M	36.082M
5.3G;VHT40;Nss1,(M0);Ntx1	69.1M	36.182M	36M2D1D	41.15M	36.082M
5.6G;VHT40;Nss1,(M0);Ntx1	72.05M	36.232M	36M2D1D	41M	33.793M
5.8G;VHT40;Nss1,(M0);Ntx1	36.35M	68.016M	68M0D1D	3.14M	30.105M
5.2G;VHT80;Nss1,(M0);Ntx1	81.8M	76.062M	76M1D1D	81.8M	76.062M
5.3G;VHT80;Nss1,(M0);Ntx1	81.6M	75.962M	76M0D1D	81.6M	75.962M
5.6G;VHT80;Nss1,(M0);Ntx1	196.4M	81.259M	81M3D1D	81.7M	75.962M
5.8G;VHT80;Nss1,(M0);Ntx1	76.6M	76.262M	76M3D1D	3.24M	38.521M



Result

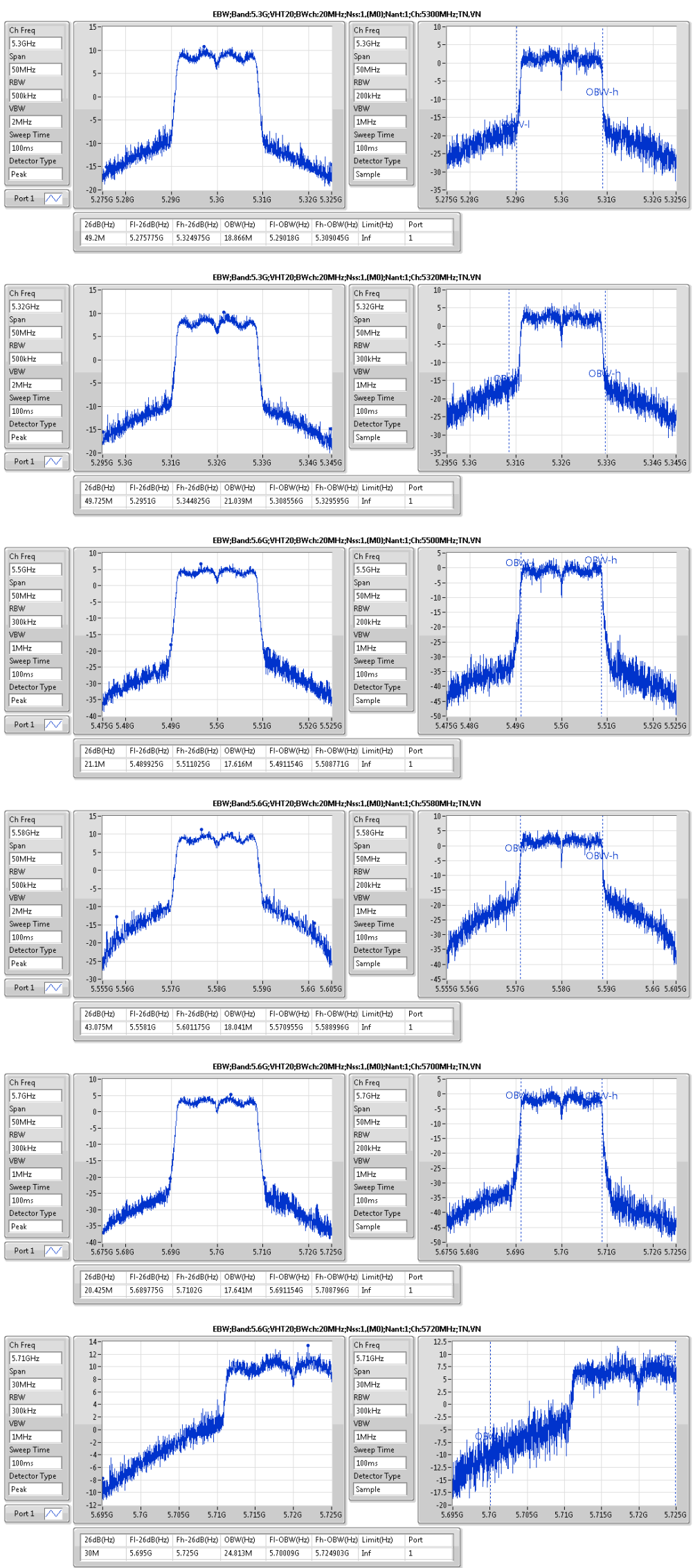
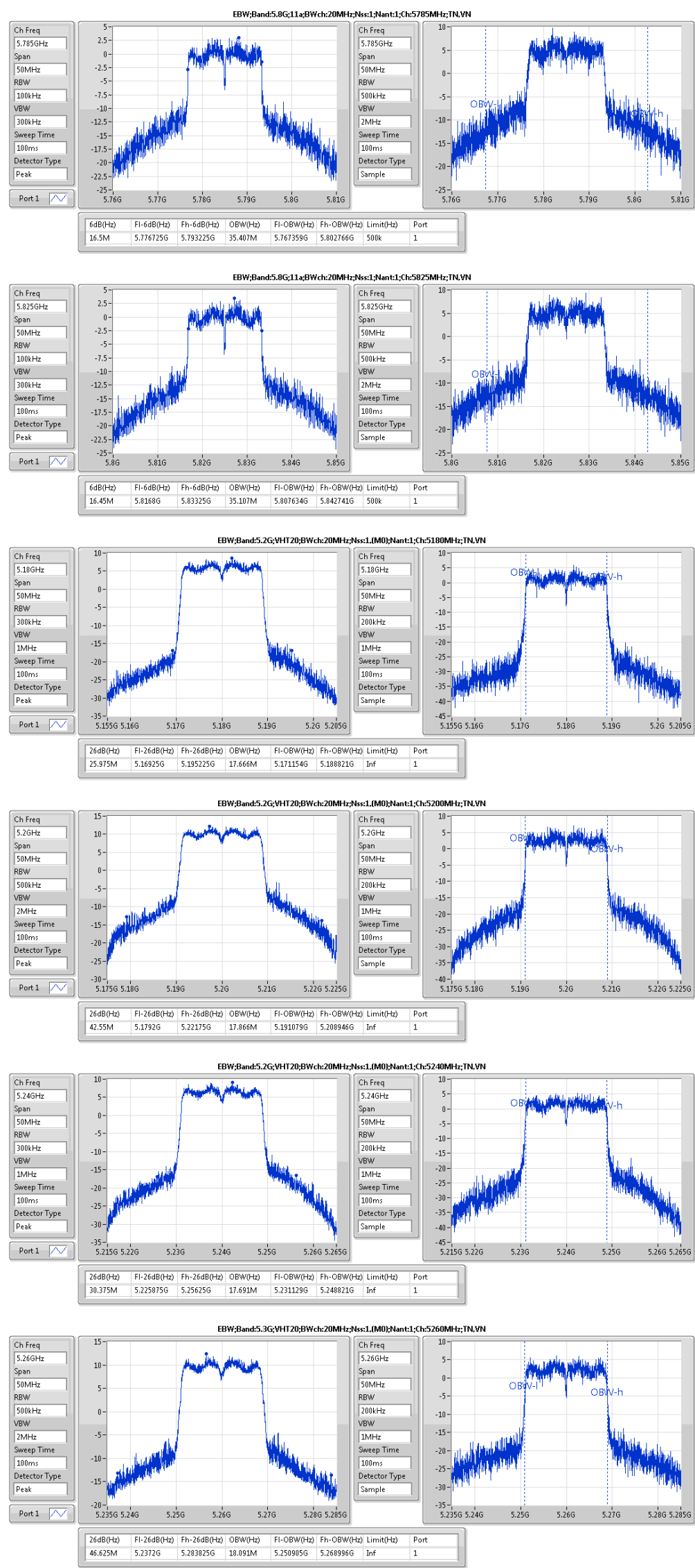
Mode	Result	Limit (Hz)	P1-N dB (Hz)	P1-OBW (Hz)
5.2G;11a;Nss1;Ntx1;5180	Pass	Inf	25.175M	16.567M
5.2G;11a;Nss1;Ntx1;5200	Pass	Inf	49.95M	25.887M
5.2G;11a;Nss1;Ntx1;5240	Pass	Inf	36.725M	16.717M
5.3G;11a;Nss1;Ntx1;5260	Pass	Inf	48.875M	18.791M
5.3G;11a;Nss1;Ntx1;5300	Pass	Inf	36.975M	16.742M
5.3G;11a;Nss1;Ntx1;5320	Pass	Inf	19.625M	16.542M
5.6G;11a;Nss1;Ntx1;5500	Pass	Inf	19.825M	16.517M
5.6G;11a;Nss1;Ntx1;5580	Pass	Inf	45.9M	17.541M
5.6G;11a;Nss1;Ntx1;5700	Pass	Inf	19.75M	16.492M
5.6G;11a;Nss1;Ntx1;5720	Pass	Inf	30M	23.793M
5.8G;11a;Nss1;Ntx1;5720	Pass	500k	3.3M	23.628M
5.8G;11a;Nss1;Ntx1;5745	Pass	500k	16.475M	33.883M
5.8G;11a;Nss1;Ntx1;5785	Pass	500k	16.5M	35.407M
5.8G;11a;Nss1;Ntx1;5825	Pass	500k	16.45M	35.107M
5.2G;VHT20;Nss1,(M0);Ntx1;5180	Pass	Inf	25.975M	17.666M
5.2G;VHT20;Nss1,(M0);Ntx1;5200	Pass	Inf	42.55M	17.866M
5.2G;VHT20;Nss1,(M0);Ntx1;5240	Pass	Inf	30.375M	17.691M
5.3G;VHT20;Nss1,(M0);Ntx1;5260	Pass	Inf	46.625M	18.091M
5.3G;VHT20;Nss1,(M0);Ntx1;5300	Pass	Inf	49.2M	18.866M
5.3G;VHT20;Nss1,(M0);Ntx1;5320	Pass	Inf	49.725M	21.039M
5.6G;VHT20;Nss1,(M0);Ntx1;5500	Pass	Inf	21.1M	17.616M
5.6G;VHT20;Nss1,(M0);Ntx1;5580	Pass	Inf	43.075M	18.041M
5.6G;VHT20;Nss1,(M0);Ntx1;5700	Pass	Inf	20.425M	17.641M
5.6G;VHT20;Nss1,(M0);Ntx1;5720	Pass	Inf	30M	24.813M
5.8G;VHT20;Nss1,(M0);Ntx1;5720	Pass	500k	3.86M	25.067M
5.8G;VHT20;Nss1,(M0);Ntx1;5745	Pass	500k	17.775M	32.459M
5.8G;VHT20;Nss1,(M0);Ntx1;5785	Pass	500k	17.675M	26.962M
5.8G;VHT20;Nss1,(M0);Ntx1;5825	Pass	500k	17.6M	27.836M
5.2G;VHT40;Nss1,(M0);Ntx1;5190	Pass	Inf	41.05M	36.082M
5.2G;VHT40;Nss1,(M0);Ntx1;5230	Pass	Inf	70.55M	36.182M
5.3G;VHT40;Nss1,(M0);Ntx1;5270	Pass	Inf	69.1M	36.182M
5.3G;VHT40;Nss1,(M0);Ntx1;5310	Pass	Inf	41.15M	36.082M
5.6G;VHT40;Nss1,(M0);Ntx1;5510	Pass	Inf	64.95M	36.182M
5.6G;VHT40;Nss1,(M0);Ntx1;5550	Pass	Inf	72.05M	36.232M
5.6G;VHT40;Nss1,(M0);Ntx1;5670	Pass	Inf	41M	36.082M
5.6G;VHT40;Nss1,(M0);Ntx1;5710	Pass	Inf	61.32M	33.793M
5.8G;VHT40;Nss1,(M0);Ntx1;5710	Pass	500k	3.14M	30.105M
5.8G;VHT40;Nss1,(M0);Ntx1;5755	Pass	500k	36.3M	68.016M
5.8G;VHT40;Nss1,(M0);Ntx1;5795	Pass	500k	36.35M	53.423M
5.2G;VHT80;Nss1,(M0);Ntx1;5210	Pass	Inf	81.8M	76.062M
5.3G;VHT80;Nss1,(M0);Ntx1;5290	Pass	Inf	81.6M	75.962M
5.6G;VHT80;Nss1,(M0);Ntx1;5530	Pass	Inf	81.7M	75.962M
5.6G;VHT80;Nss1,(M0);Ntx1;5610	Pass	Inf	196.4M	76.462M
5.6G;VHT80;Nss1,(M0);Ntx1;5690	Pass	Inf	139.2M	81.259M
5.8G;VHT80;Nss1,(M0);Ntx1;5690	Pass	500k	3.24M	38.521M
5.8G;VHT80;Nss1,(M0);Ntx1;5775	Pass	500k	76.6M	76.262M

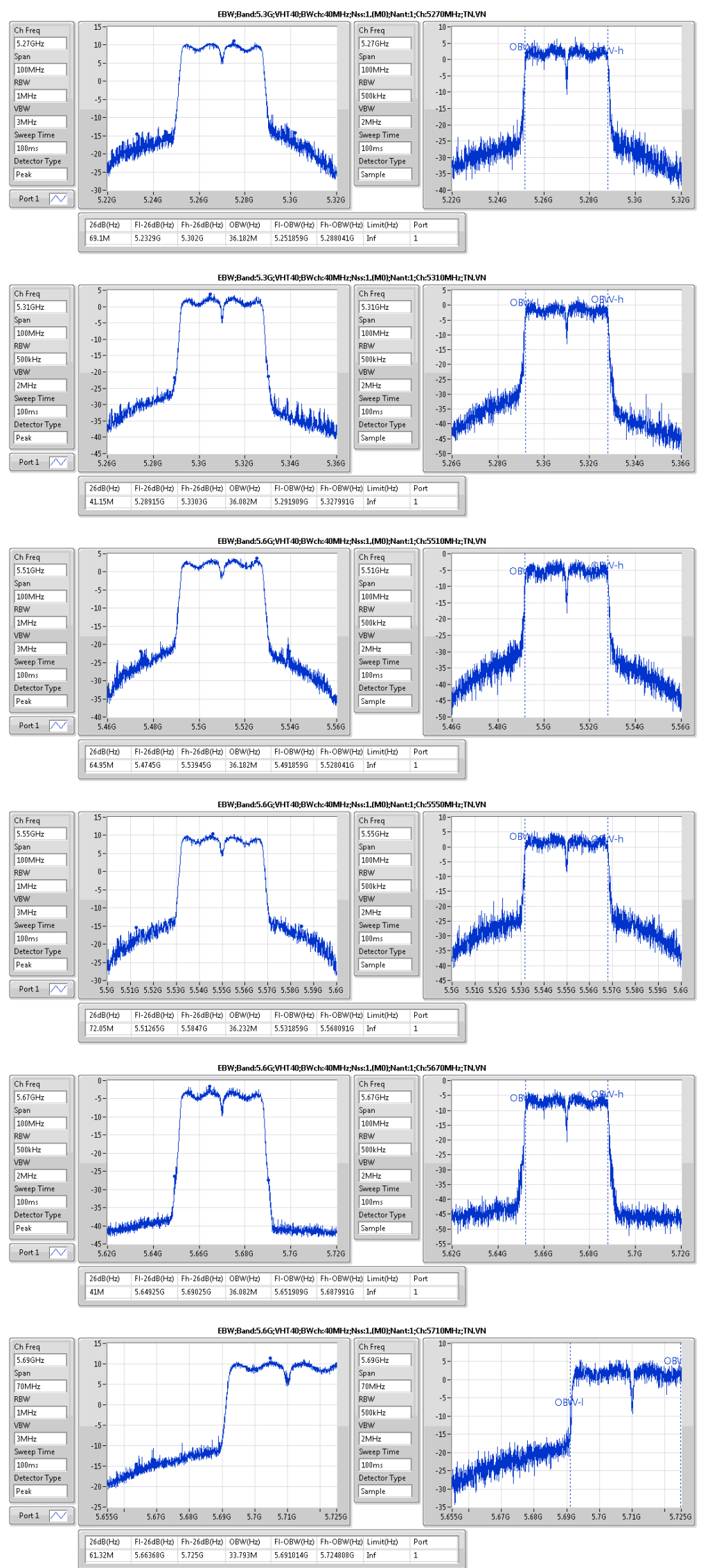
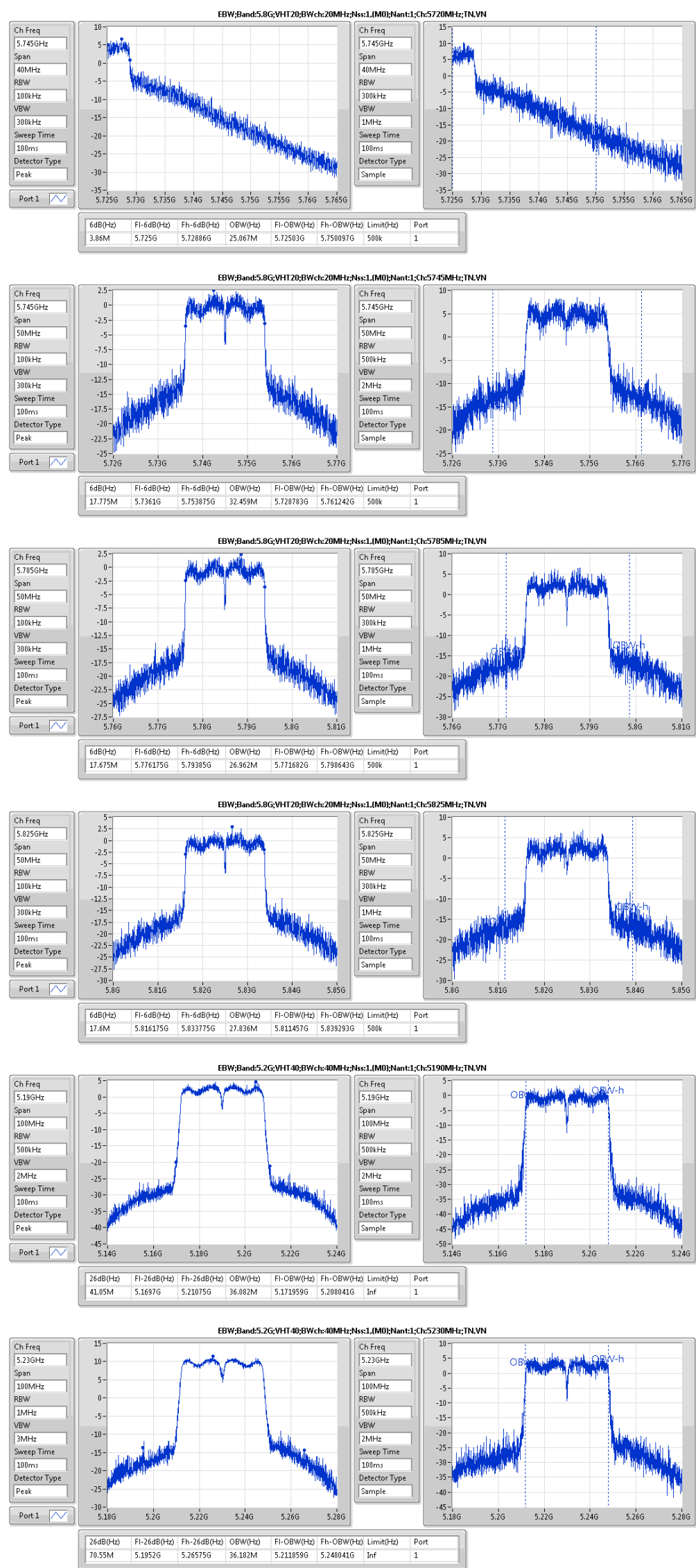




EBW Result

Appendix B

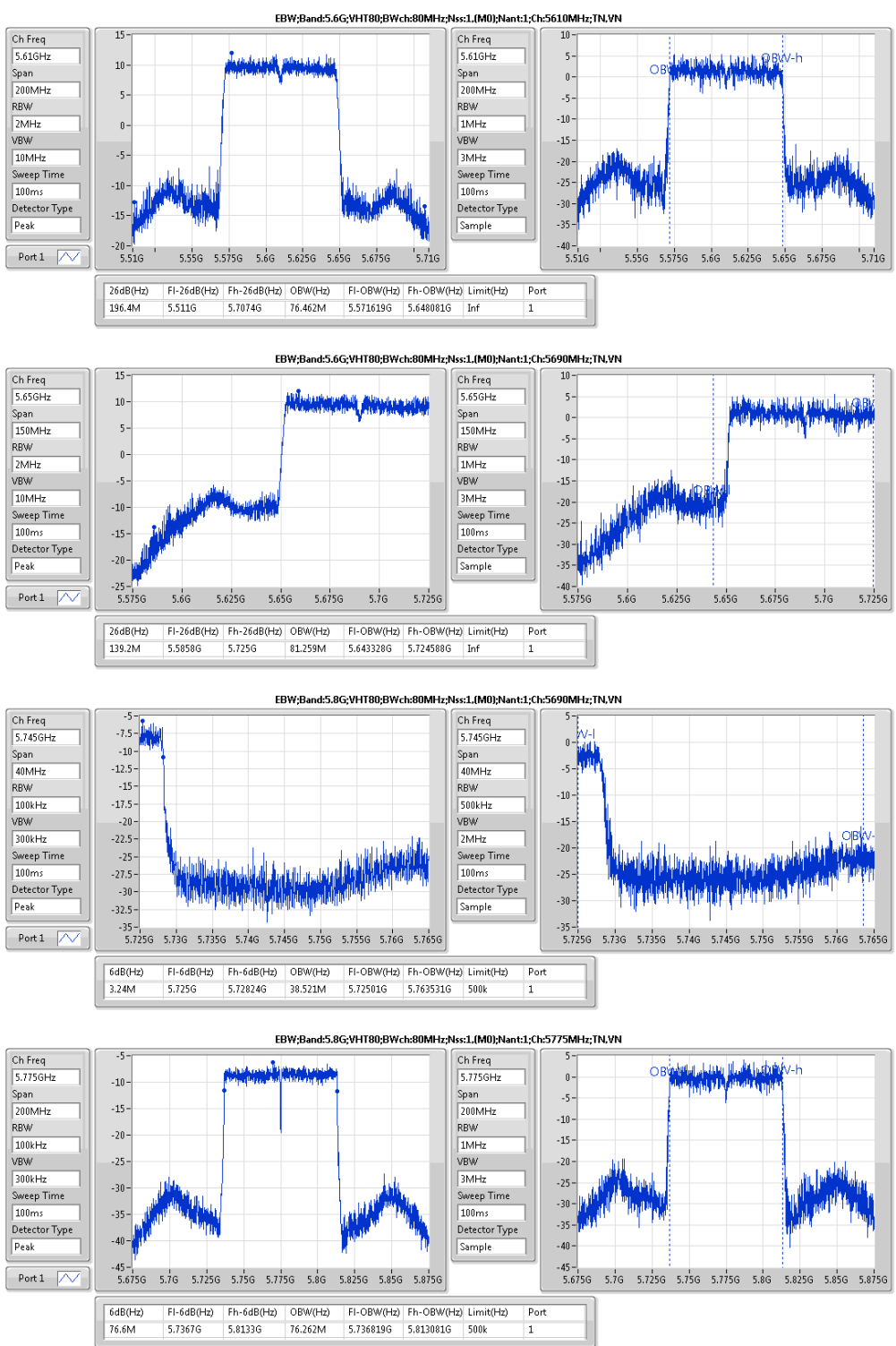
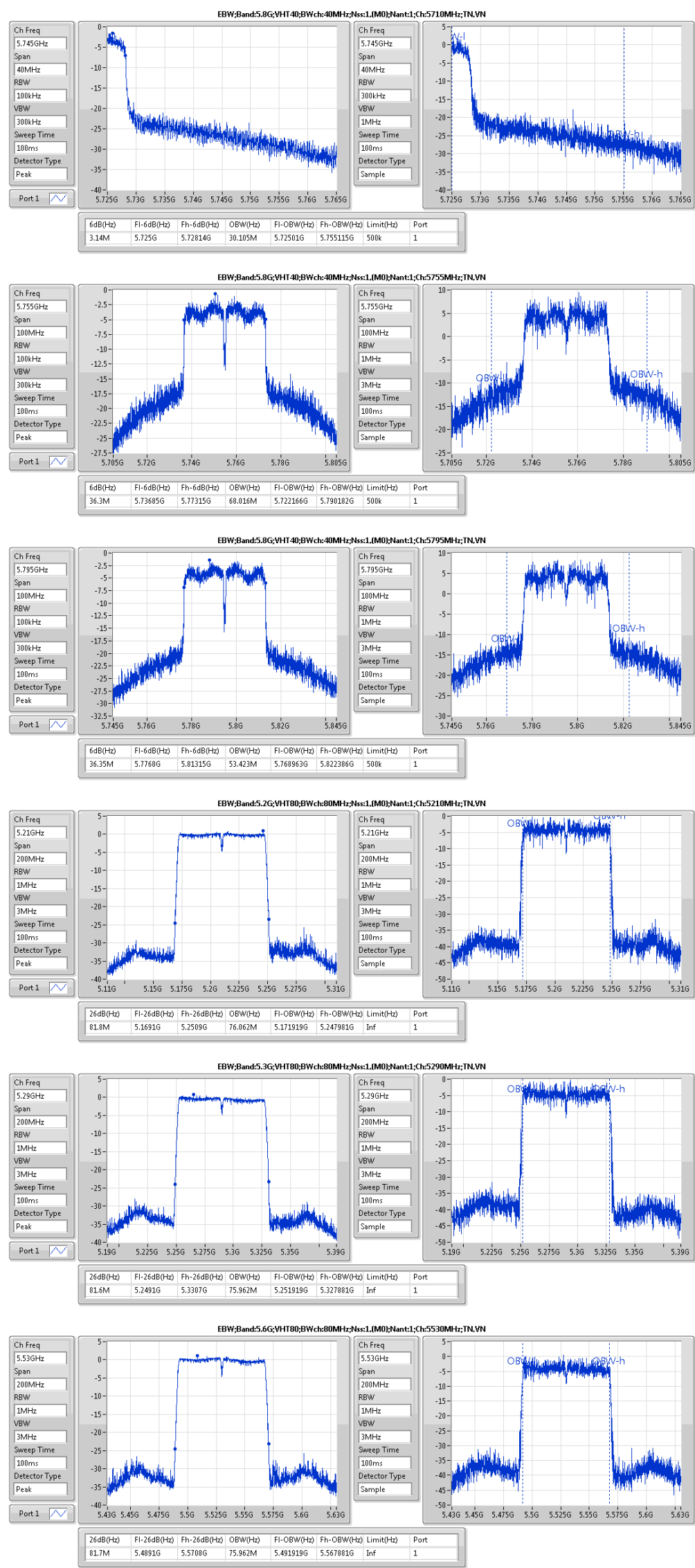






EBW Result

Appendix B





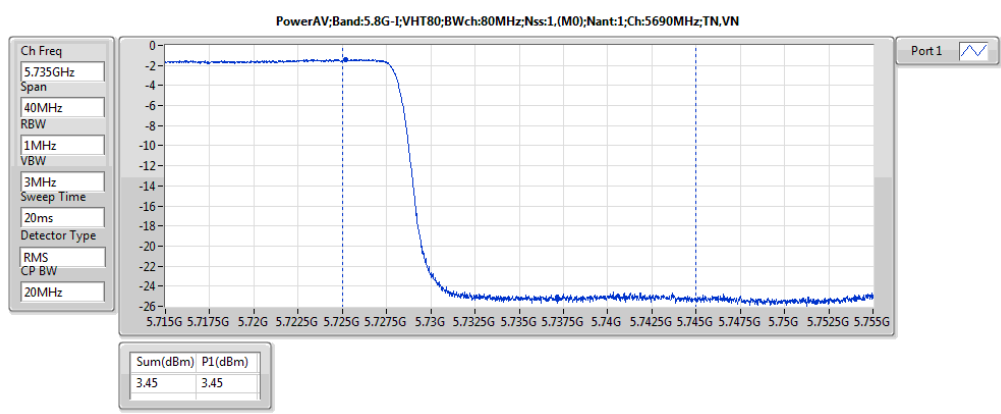
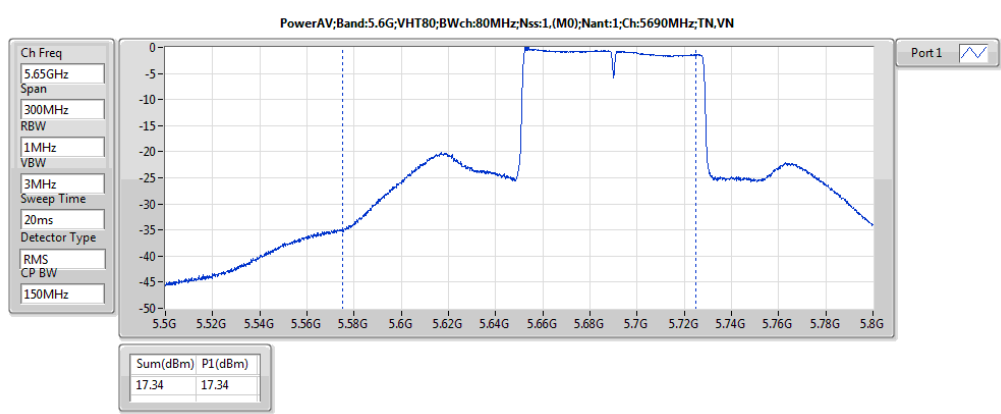
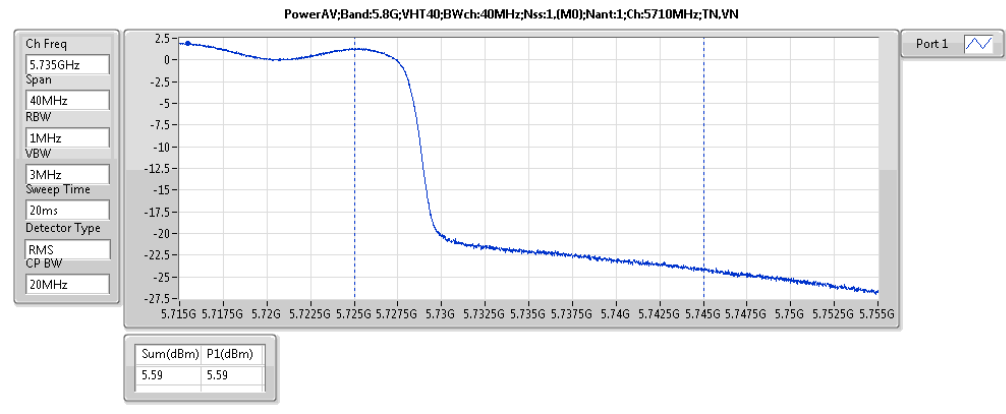
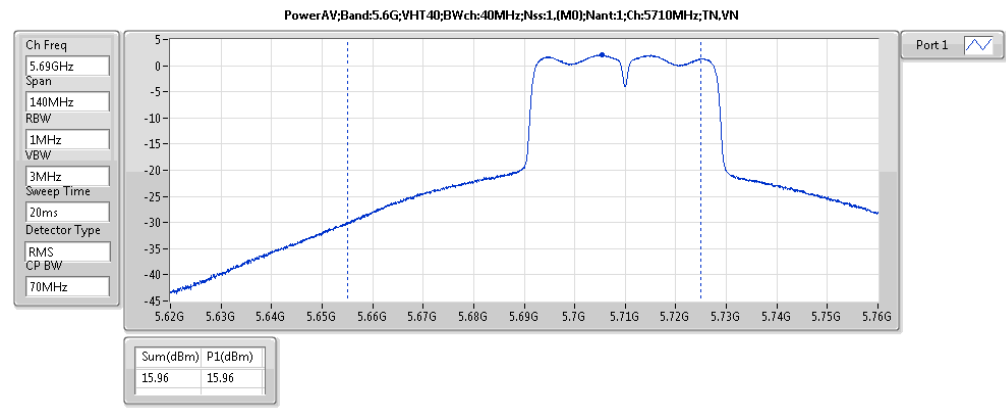
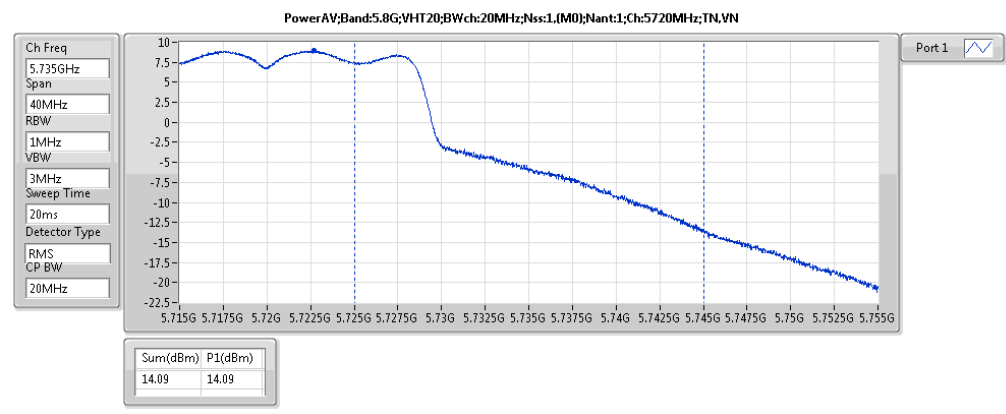
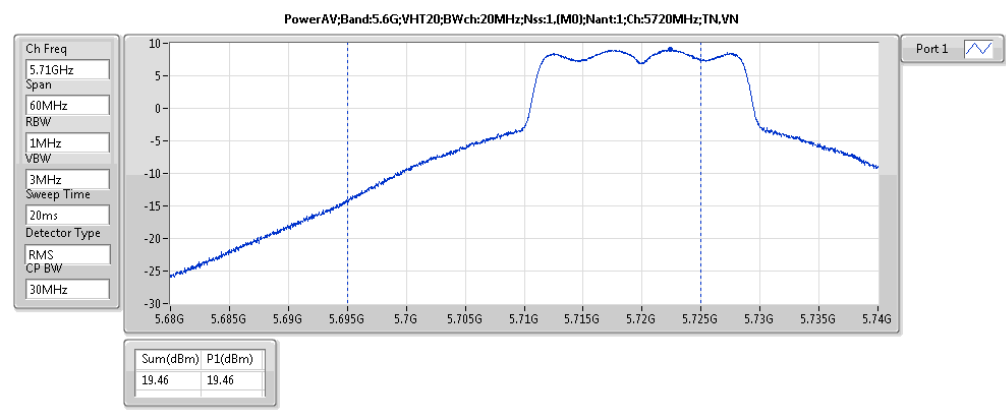
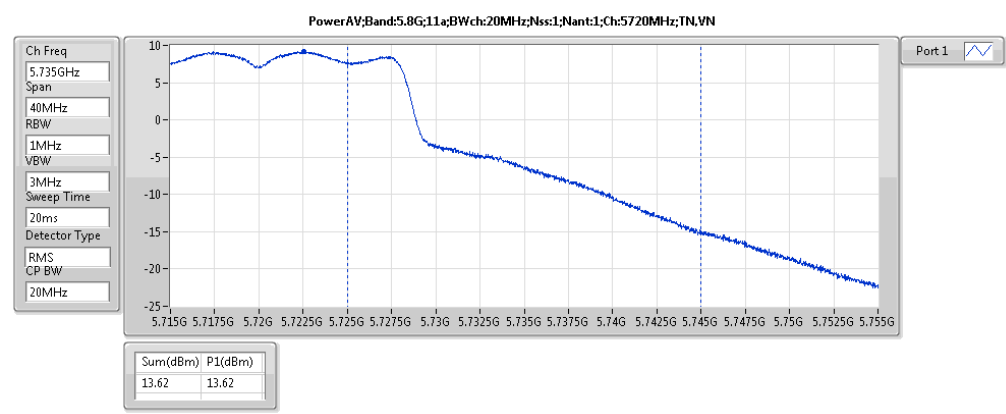
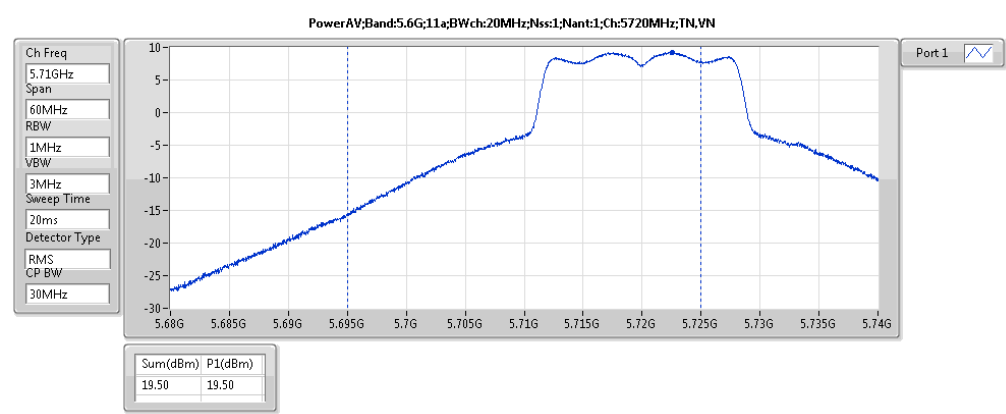
Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;20;1;1	18.44	0.06982	19.86	0.09683
5.3G;11a;20;1;1	17.91	0.0618	19.33	0.0857
5.6G;11a;20;1;1	19.50	0.08913	22.09	0.16181
5.8G;11a;20;1;1	16.26	0.04227	18.85	0.07674
5.2G;VHT20;20;1,(M0);1	18.55	0.07161	19.97	0.09931
5.3G;VHT20;20;1,(M0);1	18.20	0.06607	19.62	0.09162
5.6G;VHT20;20;1,(M0);1	19.46	0.08831	22.05	0.16032
5.8G;VHT20;20;1,(M0);1	16.34	0.04305	18.93	0.07816
5.2G;VHT40;40;1,(M0);1	17.01	0.05023	18.43	0.06966
5.3G;VHT40;40;1,(M0);1	16.78	0.04764	18.20	0.06607
5.6G;VHT40;40;1,(M0);1	16.19	0.04159	18.78	0.07551
5.8G;VHT40;40;1,(M0);1	15.71	0.03724	18.30	0.06761
5.2G;VHT80;80;1,(M0);1	10.68	0.01169	12.10	0.01622
5.3G;VHT80;80;1,(M0);1	10.13	0.0103	11.55	0.01429
5.6G;VHT80;80;1,(M0);1	17.34	0.0542	19.93	0.0984
5.8G;VHT80;80;1,(M0);1	14.36	0.02729	16.95	0.04955



Result

Mode	Result	DG (dBi)	Sum (dBm)	Sum Lim. (dBm)	EIRP (dBm)	EIRP Lim. (dBm)	P1 (dBm)
5.2G;11a;20;1;1;5180;L;TN,VN	Pass	1.42	16.97	23.98	18.39	Inf	16.97
5.2G;11a;20;1;1;5200;M;TN,VN	Pass	1.42	18.44	23.98	19.86	Inf	18.44
5.2G;11a;20;1;1;5240;H;TN,VN	Pass	1.42	18.13	23.98	19.55	Inf	18.13
5.3G;11a;20;1;1;5260;L;TN,VN	Pass	1.42	17.91	23.98	19.33	Inf	17.91
5.3G;11a;20;1;1;5300;M;TN,VN	Pass	1.42	17.90	23.98	19.32	Inf	17.90
5.3G;11a;20;1;1;5320;H;TN,VN	Pass	1.42	14.80	23.93	16.22	Inf	14.80
5.6G;11a;20;1;1;5500;L;TN,VN	Pass	2.59	15.07	23.97	17.66	Inf	15.07
5.6G;11a;20;1;1;5580;M;TN,VN	Pass	2.59	17.35	23.98	19.94	Inf	17.35
5.6G;11a;20;1;1;5700;H;TN,VN	Pass	2.59	13.30	23.96	15.89	Inf	13.30
5.6G;11a;20;1;1;5720;C;TN,VN	Pass	2.59	19.50	23.98	22.09	Inf	19.50
5.8G;11a;20;1;1;5720;C;TN,VN	Pass	2.59	13.62	30.00	16.21	Inf	13.62
5.8G;11a;20;1;1;5745;L;TN,VN	Pass	2.59	16.18	30.00	18.77	Inf	16.18
5.8G;11a;20;1;1;5785;M;TN,VN	Pass	2.59	16.16	30.00	18.75	Inf	16.16
5.8G;11a;20;1;1;5825;H;TN,VN	Pass	2.59	16.26	30.00	18.85	Inf	16.26
5.2G;VHT20;20;1,(M0);1;5180;L;TN,VN	Pass	1.42	17.02	23.98	18.44	Inf	17.02
5.2G;VHT20;20;1,(M0);1;5200;M;TN,VN	Pass	1.42	18.55	23.98	19.97	Inf	18.55
5.2G;VHT20;20;1,(M0);1;5240;H;TN,VN	Pass	1.42	17.50	23.98	18.92	Inf	17.50
5.3G;VHT20;20;1,(M0);1;5260;L;TN,VN	Pass	1.42	18.20	23.98	19.62	Inf	18.20
5.3G;VHT20;20;1,(M0);1;5300;M;TN,VN	Pass	1.42	17.11	23.98	18.53	Inf	17.11
5.3G;VHT20;20;1,(M0);1;5320;H;TN,VN	Pass	1.42	16.41	23.98	17.83	Inf	16.41
5.6G;VHT20;20;1,(M0);1;5500;L;TN,VN	Pass	2.59	15.22	23.98	17.81	Inf	15.22
5.6G;VHT20;20;1,(M0);1;5580;M;TN,VN	Pass	2.59	17.64	23.98	20.23	Inf	17.64
5.6G;VHT20;20;1,(M0);1;5700;H;TN,VN	Pass	2.59	14.10	23.98	16.69	Inf	14.10
5.6G;VHT20;20;1,(M0);1;5720;C;TN,VN	Pass	2.59	19.46	23.98	22.05	Inf	19.46
5.8G;VHT20;20;1,(M0);1;5720;C;TN,VN	Pass	2.59	14.09	30.00	16.68	Inf	14.09
5.8G;VHT20;20;1,(M0);1;5745;L;TN,VN	Pass	2.59	16.34	30.00	18.93	Inf	16.34
5.8G;VHT20;20;1,(M0);1;5785;M;TN,VN	Pass	2.59	16.12	30.00	18.71	Inf	16.12
5.8G;VHT20;20;1,(M0);1;5825;H;TN,VN	Pass	2.59	16.20	30.00	18.79	Inf	16.20
5.2G;VHT40;40;1,(M0);1;5190;L;TN,VN	Pass	1.42	13.79	23.98	15.21	Inf	13.79
5.2G;VHT40;40;1,(M0);1;5230;H;TN,VN	Pass	1.42	17.01	23.98	18.43	Inf	17.01
5.3G;VHT40;40;1,(M0);1;5270;L;TN,VN	Pass	1.42	16.78	23.98	18.20	Inf	16.78
5.3G;VHT40;40;1,(M0);1;5310;H;TN,VN	Pass	1.42	13.04	23.98	14.46	Inf	13.04
5.6G;VHT40;40;1,(M0);1;5510;L;TN,VN	Pass	2.59	9.43	23.98	12.02	Inf	9.43
5.6G;VHT40;40;1,(M0);1;5550;M;TN,VN	Pass	2.59	16.19	23.98	18.78	Inf	16.19
5.6G;VHT40;40;1,(M0);1;5670;H;TN,VN	Pass	2.59	9.06	23.98	11.65	Inf	9.06
5.6G;VHT40;40;1,(M0);1;5710;C;TN,VN	Pass	2.59	15.96	23.98	18.55	Inf	15.96
5.8G;VHT40;40;1,(M0);1;5710;C;TN,VN	Pass	2.59	5.59	30.00	8.18	Inf	5.59
5.8G;VHT40;40;1,(M0);1;5755;L;TN,VN	Pass	2.59	15.71	30.00	18.30	Inf	15.71
5.8G;VHT40;40;1,(M0);1;5795;H;TN,VN	Pass	2.59	15.49	30.00	18.08	Inf	15.49
5.2G;VHT80;80;1,(M0);1;5210;S;TN,VN	Pass	1.42	10.68	23.98	12.10	Inf	10.68
5.3G;VHT80;80;1,(M0);1;5290;S;TN,VN	Pass	1.42	10.13	23.98	11.55	Inf	10.13
5.6G;VHT80;80;1,(M0);1;5530;L;TN,VN	Pass	2.59	10.60	23.98	13.19	Inf	10.60
5.6G;VHT80;80;1,(M0);1;5610;H;TN,VN	Pass	2.59	16.03	23.98	18.62	Inf	16.03
5.6G;VHT80;80;1,(M0);1;5690;C;TN,VN	Pass	2.59	17.34	23.98	19.93	Inf	17.34
5.8G;VHT80;80;1,(M0);1;5690;C;TN,VN	Pass	2.59	3.45	30.00	6.04	Inf	3.45
5.8G;VHT80;80;1,(M0);1;5775;S;TN,VN	Pass	2.59	14.36	30.00	16.95	Inf	14.36





Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;20;1;1	6.43	7.85
5.3G;11a;20;1;1	5.74	7.16
5.6G;11a;20;1;1	8.23	10.82
5.8G;11a;20;1;1	6.15	8.74
5.2G;VHT20;20;1,(M0);1	5.96	7.38
5.3G;VHT20;20;1,(M0);1	5.78	7.20
5.6G;VHT20;20;1,(M0);1	7.84	10.43
5.8G;VHT20;20;1,(M0);1	5.87	8.46
5.2G;VHT40;40;1,(M0);1	1.64	3.06
5.3G;VHT40;40;1,(M0);1	1.25	2.67
5.6G;VHT40;40;1,(M0);1	1.15	3.74
5.8G;VHT40;40;1,(M0);1	-1.19	1.40
5.2G;VHT80;80;1,(M0);1	-8.79	-7.37
5.3G;VHT80;80;1,(M0);1	-8.85	-7.43
5.6G;VHT80;80;1,(M0);1	-1.48	1.11
5.8G;VHT80;80;1,(M0);1	-3.97	-1.38

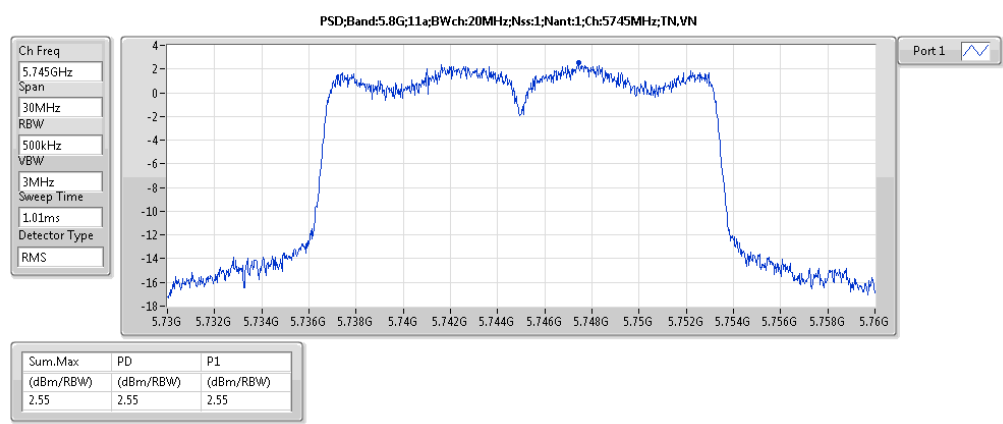
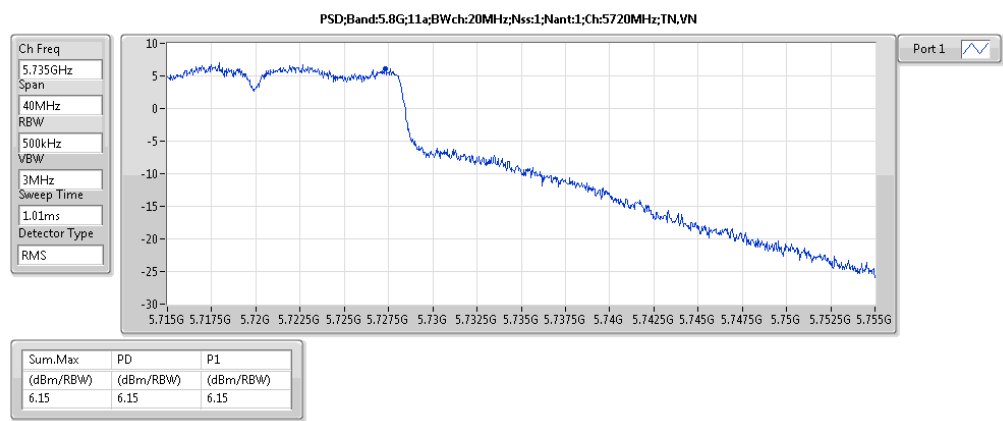
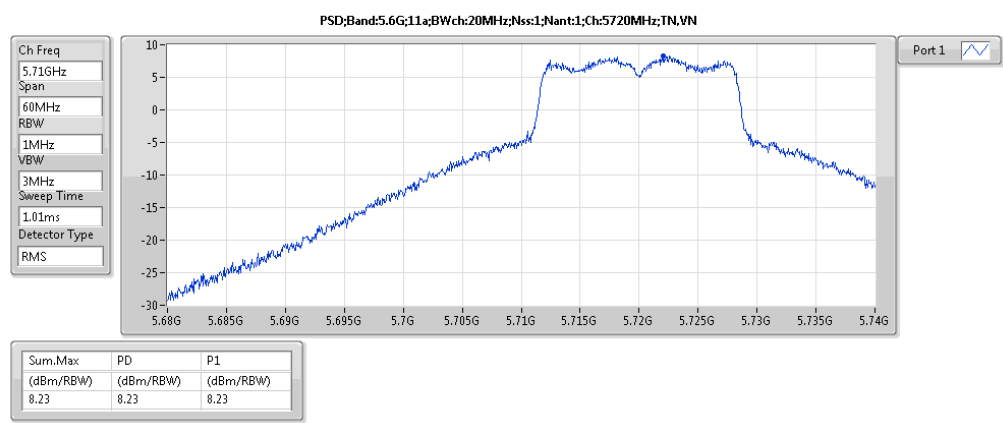
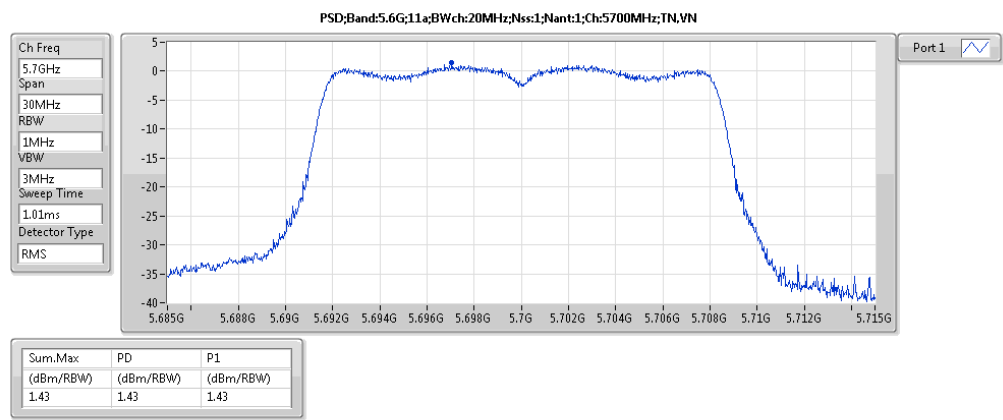
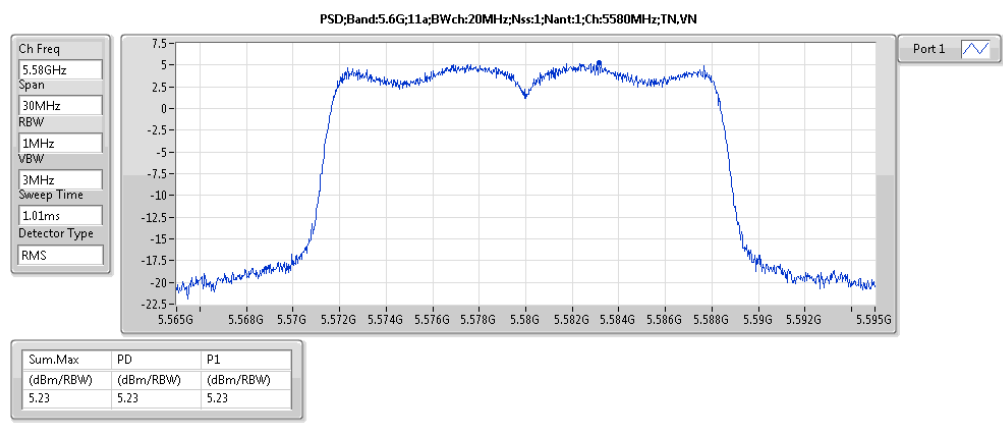
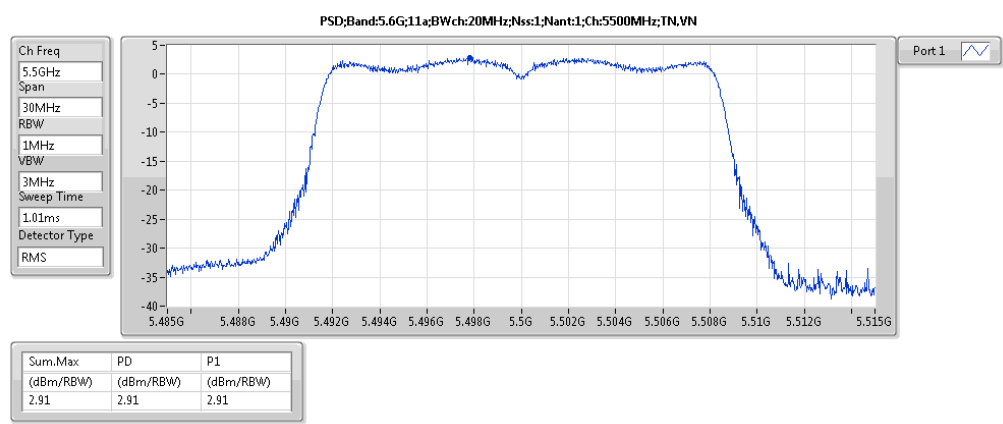
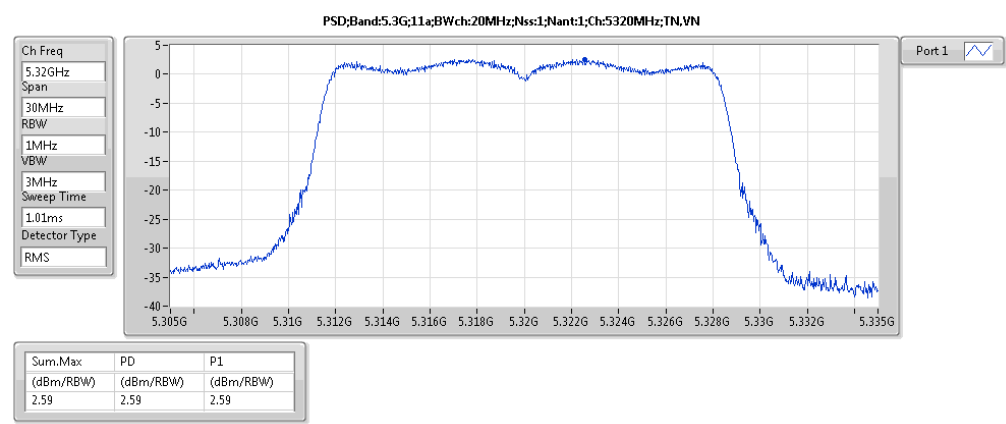
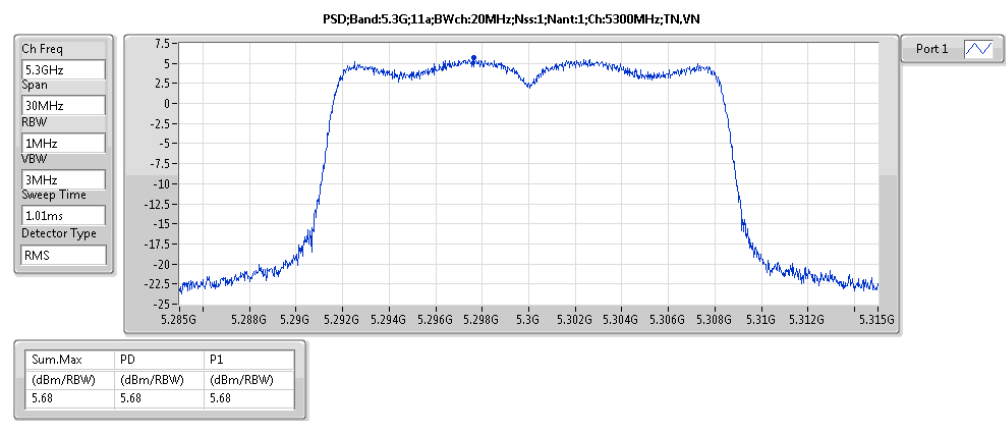
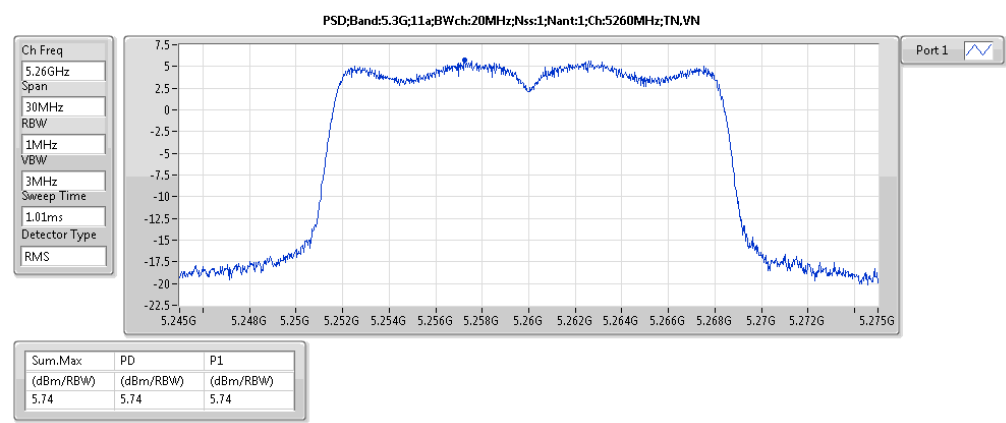
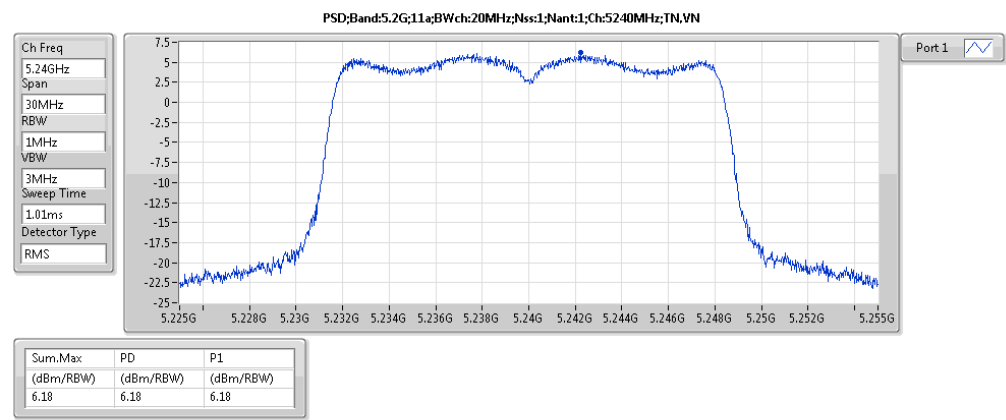
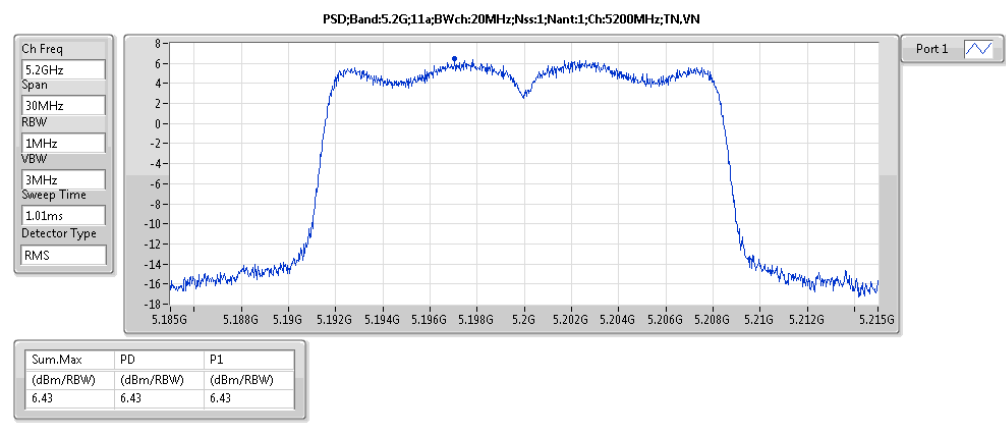
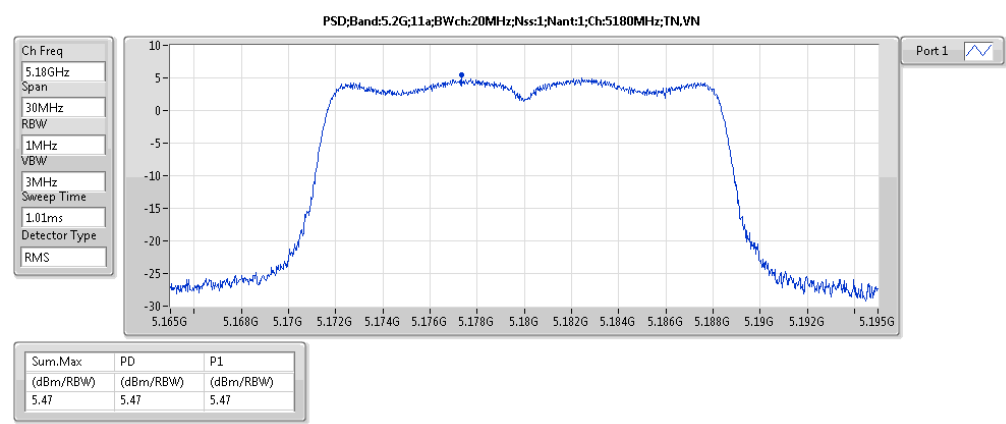
Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)
5.2G;11a;20;1;1;5180;L;TN,VN	Pass	1M	1M	0.00	1.42	5.47	11.00	6.89	Inf	5.47
5.2G;11a;20;1;1;5200;M;TN,VN	Pass	1M	1M	0.00	1.42	6.43	11.00	7.85	Inf	6.43
5.2G;11a;20;1;1;5240;H;TN,VN	Pass	1M	1M	0.00	1.42	6.18	11.00	7.60	Inf	6.18
5.3G;11a;20;1;1;5260;L;TN,VN	Pass	1M	1M	0.00	1.42	5.74	11.00	7.16	Inf	5.74
5.3G;11a;20;1;1;5300;M;TN,VN	Pass	1M	1M	0.00	1.42	5.68	11.00	7.10	Inf	5.68
5.3G;11a;20;1;1;5320;H;TN,VN	Pass	1M	1M	0.00	1.42	2.59	11.00	4.01	Inf	2.59
5.6G;11a;20;1;1;5500;L;TN,VN	Pass	1M	1M	0.00	2.59	2.91	11.00	5.50	Inf	2.91
5.6G;11a;20;1;1;5580;M;TN,VN	Pass	1M	1M	0.00	2.59	5.23	11.00	7.82	Inf	5.23
5.6G;11a;20;1;1;5700;H;TN,VN	Pass	1M	1M	0.00	2.59	1.43	11.00	4.02	Inf	1.43
5.6G;11a;20;1;1;5720;C;TN,VN	Pass	1M	1M	0.00	2.59	8.23	11.00	10.82	Inf	8.23
5.8G;11a;20;1;1;5720;C;TN,VN	Pass	500k	500k	0.00	2.59	6.15	30.00	8.74	Inf	6.15
5.8G;11a;20;1;1;5745;L;TN,VN	Pass	500k	500k	0.00	2.59	2.55	30.00	5.14	Inf	2.55
5.8G;11a;20;1;1;5785;M;TN,VN	Pass	500k	500k	0.00	2.59	2.49	30.00	5.08	Inf	2.49
5.8G;11a;20;1;1;5825;H;TN,VN	Pass	500k	500k	0.00	2.59	2.78	30.00	5.37	Inf	2.78
5.2G;VHT20;20;1,(M0);1;5180;L;TN,VN	Pass	1M	1M	0.00	1.42	4.61	11.00	6.03	Inf	4.61
5.2G;VHT20;20;1,(M0);1;5200;M;TN,VN	Pass	1M	1M	0.00	1.42	5.96	11.00	7.38	Inf	5.96
5.2G;VHT20;20;1,(M0);1;5240;H;TN,VN	Pass	1M	1M	0.00	1.42	5.22	11.00	6.64	Inf	5.22
5.3G;VHT20;20;1,(M0);1;5260;L;TN,VN	Pass	1M	1M	0.00	1.42	5.78	11.00	7.20	Inf	5.78
5.3G;VHT20;20;1,(M0);1;5300;M;TN,VN	Pass	1M	1M	0.00	1.42	5.02	11.00	6.44	Inf	5.02
5.3G;VHT20;20;1,(M0);1;5320;H;TN,VN	Pass	1M	1M	0.00	1.42	4.05	11.00	5.47	Inf	4.05
5.6G;VHT20;20;1,(M0);1;5500;L;TN,VN	Pass	1M	1M	0.00	2.59	2.73	11.00	5.32	Inf	2.73
5.6G;VHT20;20;1,(M0);1;5580;M;TN,VN	Pass	1M	1M	0.00	2.59	5.20	11.00	7.79	Inf	5.2
5.6G;VHT20;20;1,(M0);1;5700;H;TN,VN	Pass	1M	1M	0.00	2.59	1.96	11.00	4.55	Inf	1.96
5.6G;VHT20;20;1,(M0);1;5720;C;TN,VN	Pass	1M	1M	0.00	2.59	7.84	11.00	10.43	Inf	7.84
5.8G;VHT20;20;1,(M0);1;5720;C;TN,VN	Pass	500k	500k	0.00	2.59	5.87	30.00	8.46	Inf	5.87
5.8G;VHT20;20;1,(M0);1;5745;L;TN,VN	Pass	500k	500k	0.00	2.59	2.38	30.00	4.97	Inf	2.38
5.8G;VHT20;20;1,(M0);1;5785;M;TN,VN	Pass	500k	500k	0.00	2.59	2.21	30.00	4.80	Inf	2.21
5.8G;VHT20;20;1,(M0);1;5825;H;TN,VN	Pass	500k	500k	0.00	2.59	2.14	30.00	4.73	Inf	2.14
5.2G;VHT40;40;1,(M0);1;5190;L;TN,VN	Pass	1M	1M	0.00	1.42	-1.70	11.00	-0.28	Inf	-1.7
5.2G;VHT40;40;1,(M0);1;5230;H;TN,VN	Pass	1M	1M	0.00	1.42	1.64	11.00	3.06	Inf	1.64
5.3G;VHT40;40;1,(M0);1;5270;L;TN,VN	Pass	1M	1M	0.00	1.42	1.25	11.00	2.67	Inf	1.25
5.3G;VHT40;40;1,(M0);1;5310;H;TN,VN	Pass	1M	1M	0.00	1.42	-2.37	11.00	-0.95	Inf	-2.37
5.6G;VHT40;40;1,(M0);1;5510;L;TN,VN	Pass	1M	1M	0.00	2.59	-5.91	11.00	-3.32	Inf	-5.91
5.6G;VHT40;40;1,(M0);1;5550;M;TN,VN	Pass	1M	1M	0.00	2.59	0.68	11.00	3.27	Inf	0.68
5.6G;VHT40;40;1,(M0);1;5670;H;TN,VN	Pass	1M	1M	0.00	2.59	-4.16	11.00	-1.57	Inf	-4.16
5.6G;VHT40;40;1,(M0);1;5710;C;TN,VN	Pass	1M	1M	0.00	2.59	1.15	11.00	3.74	Inf	1.15
5.8G;VHT40;40;1,(M0);1;5710;C;TN,VN	Pass	500k	500k	0.00	2.59	-1.23	30.00	1.36	Inf	-1.23
5.8G;VHT40;40;1,(M0);1;5755;L;TN,VN	Pass	500k	500k	0.00	2.59	-1.19	30.00	1.40	Inf	-1.19
5.8G;VHT40;40;1,(M0);1;5795;H;TN,VN	Pass	500k	500k	0.00	2.59	-1.27	30.00	1.32	Inf	-1.27
5.2G;VHT80;80;1,(M0);1;5210;S;TN,VN	Pass	1M	1M	0.00	1.42	-8.79	11.00	-7.37	Inf	-8.79
5.3G;VHT80;80;1,(M0);1;5290;S;TN,VN	Pass	1M	1M	0.00	1.42	-8.85	11.00	-7.43	Inf	-8.85
5.6G;VHT80;80;1,(M0);1;5530;L;TN,VN	Pass	1M	1M	0.00	2.59	-8.34	11.00	-5.75	Inf	-8.34
5.6G;VHT80;80;1,(M0);1;5610;H;TN,VN	Pass	1M	1M	0.00	2.59	-2.89	11.00	-0.30	Inf	-2.89
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5.8G;VHT80;80;1,(M0);1;5690;C;TN,VN	Pass	500k	500k	0.00	2.59	-3.97	30.00	-1.38	Inf	-3.97
5.8G;VHT80;80;1,(M0);1;5775;S;TN,VN	Pass	500k	500k	0.00	2.59	-6.23	30.00	-3.64	Inf	-6.23



PSD Result

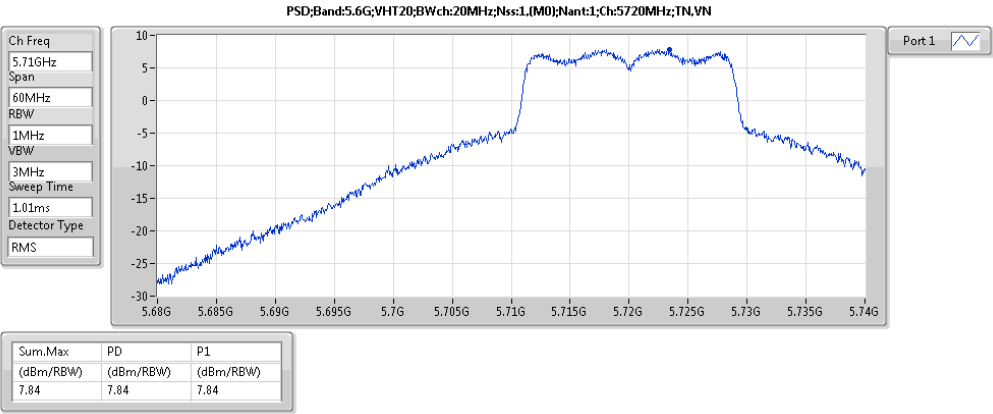
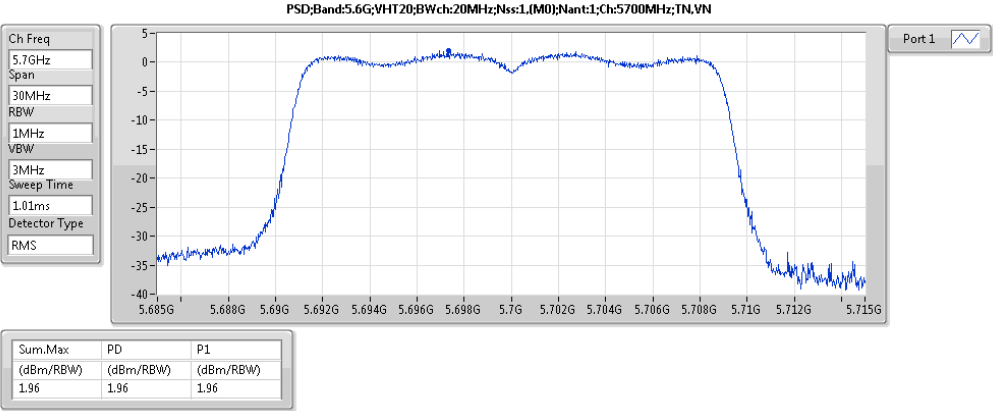
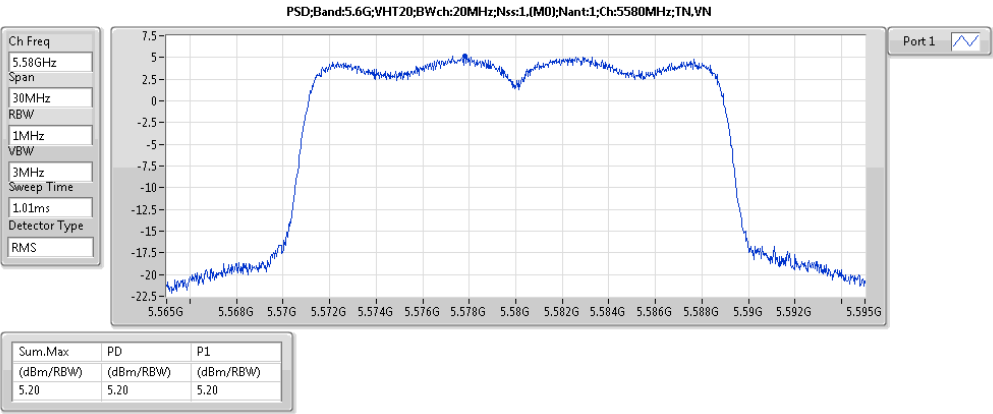
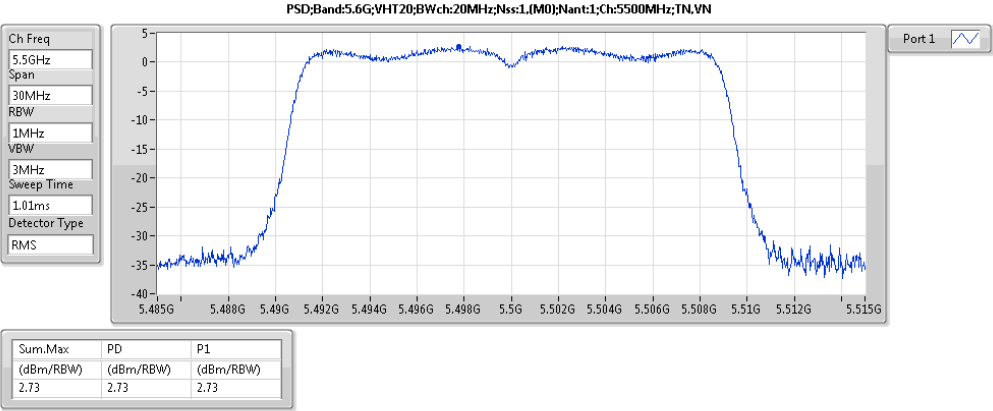
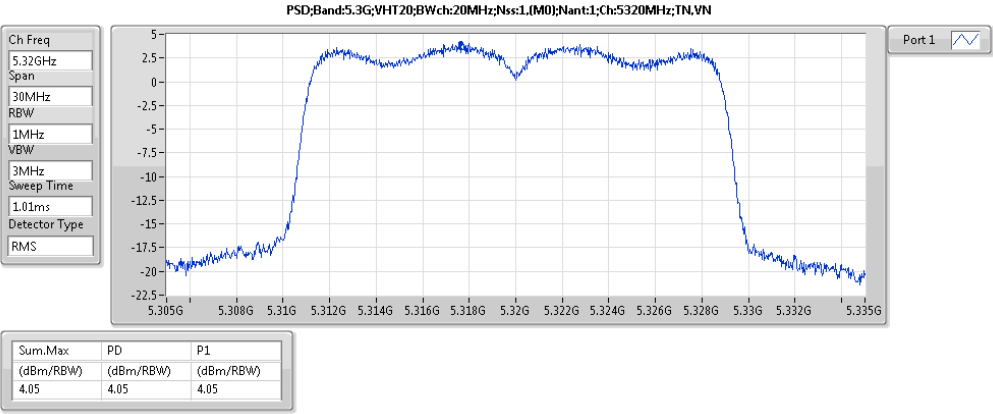
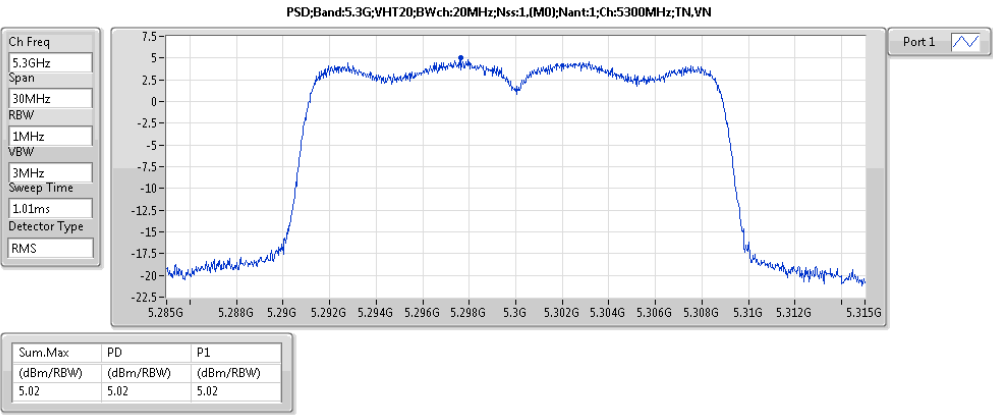
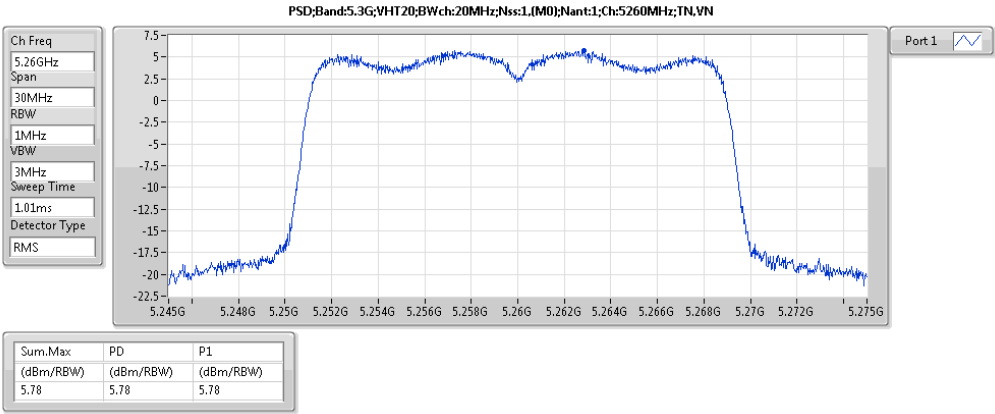
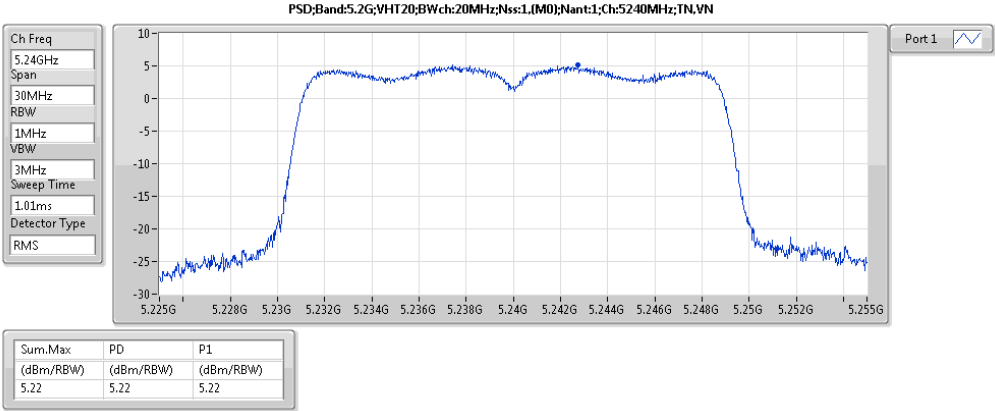
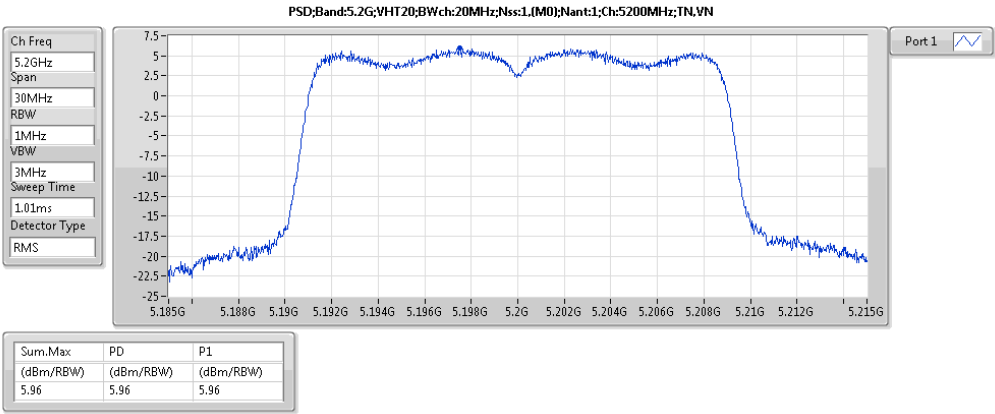
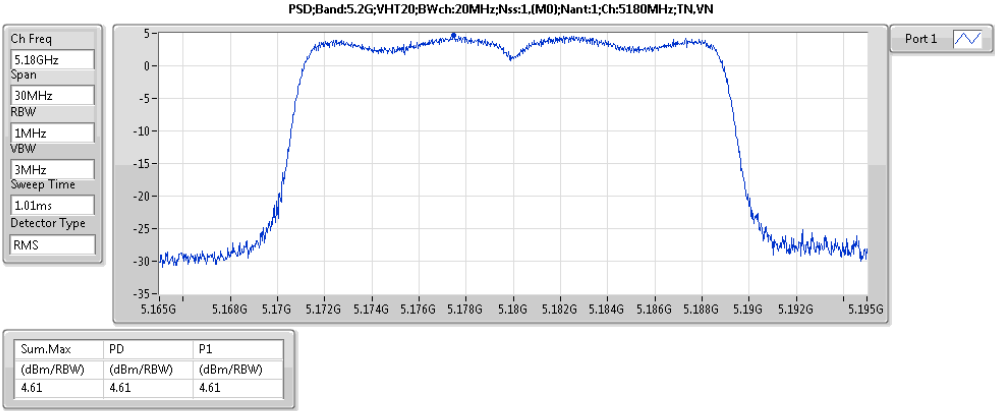
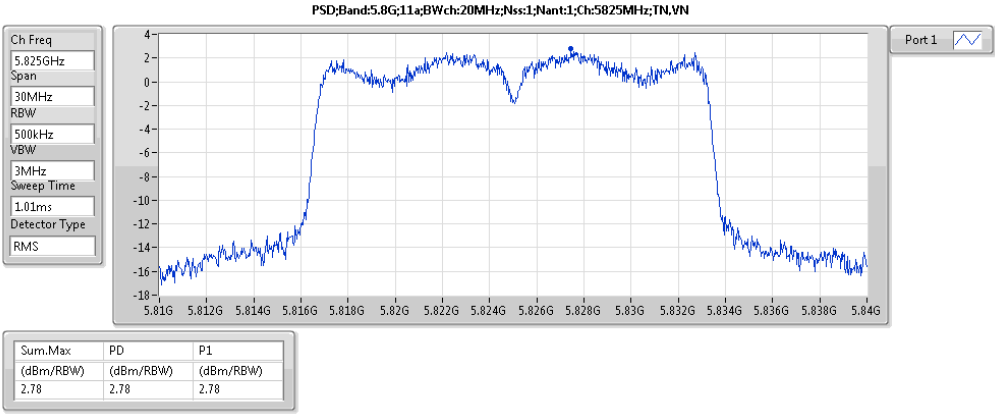
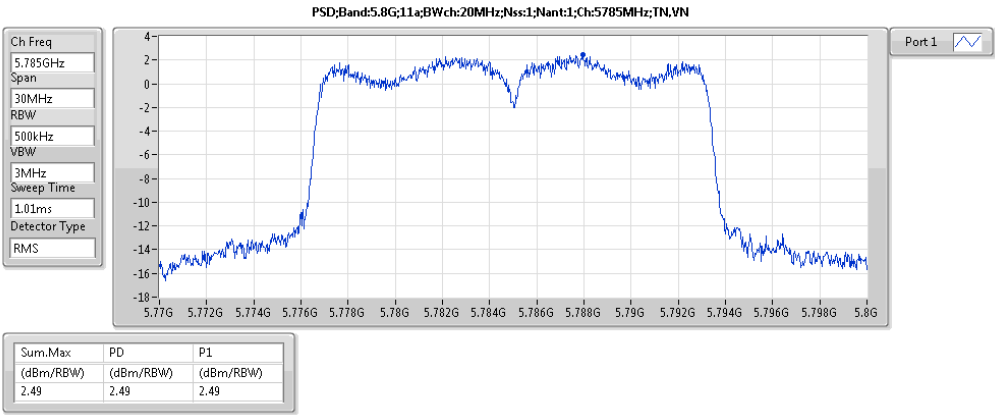
Appendix D





PSD Result

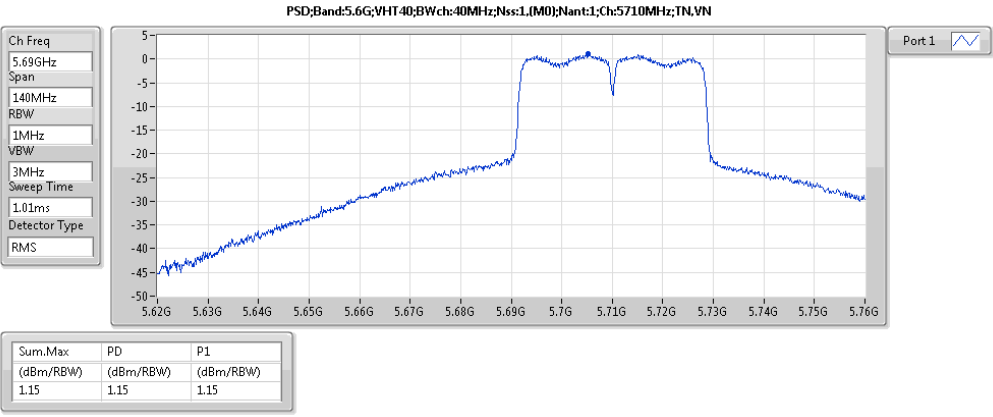
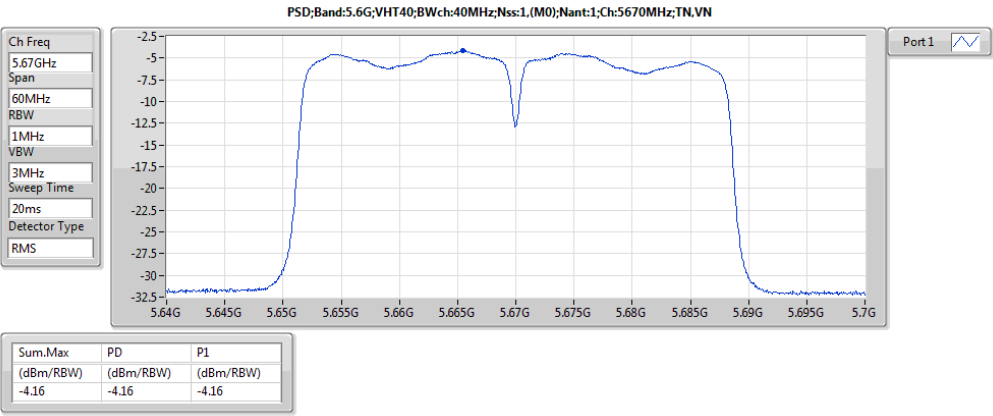
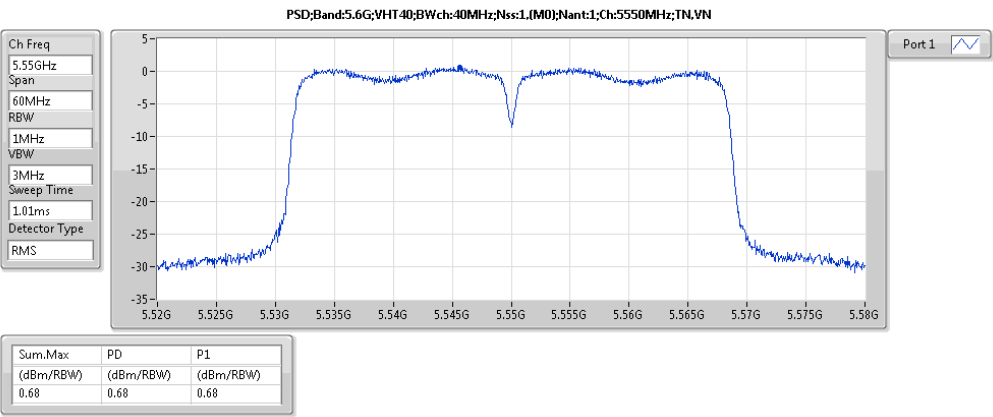
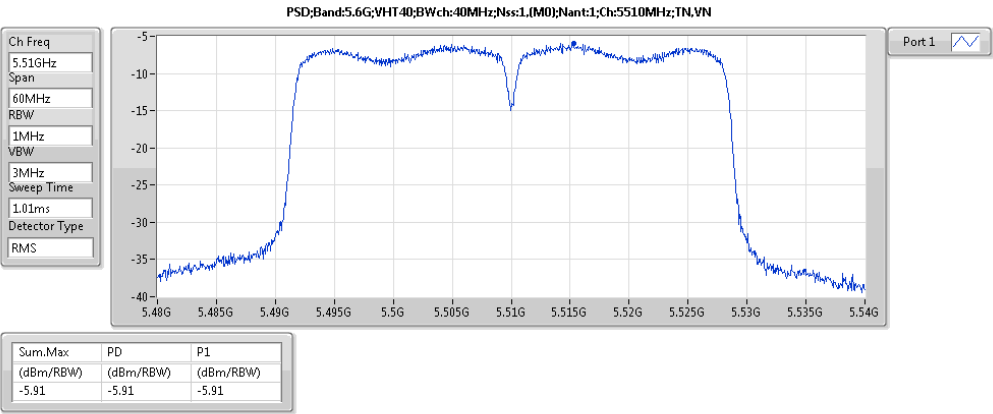
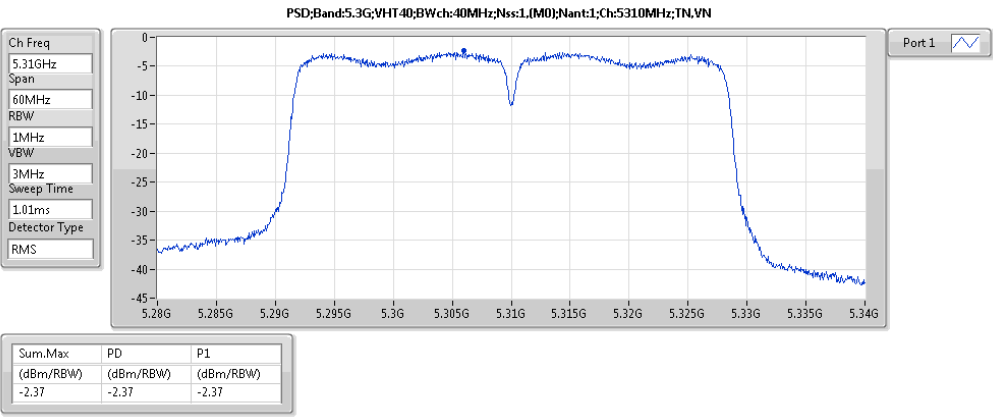
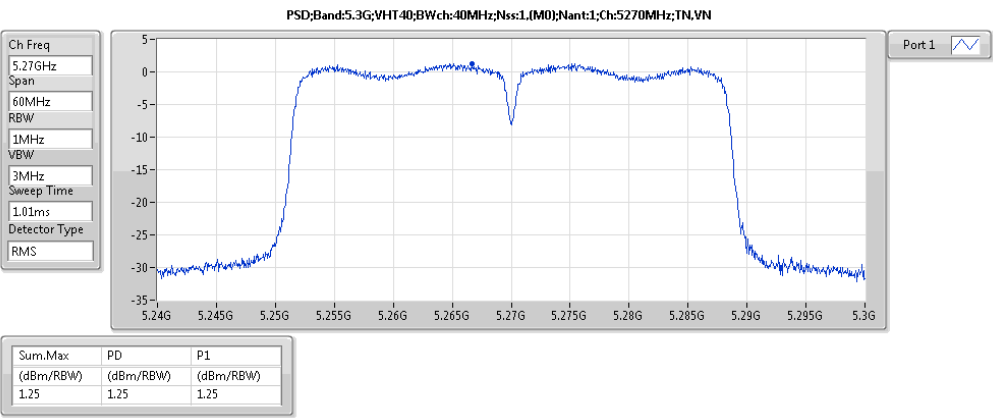
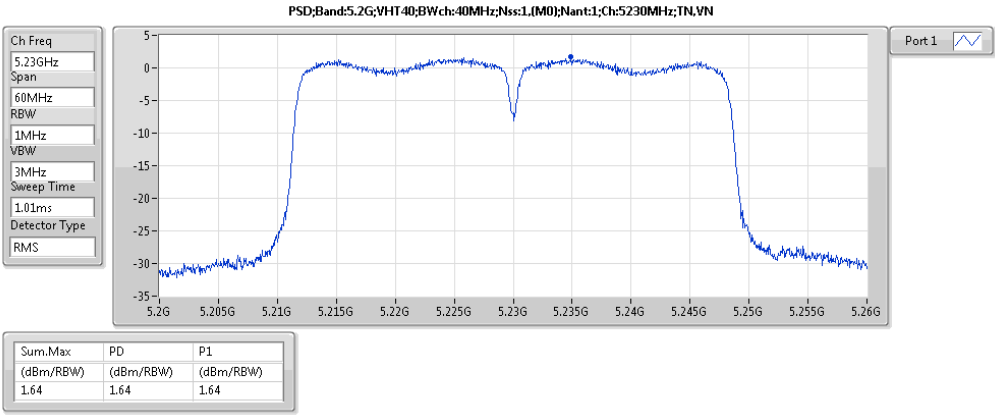
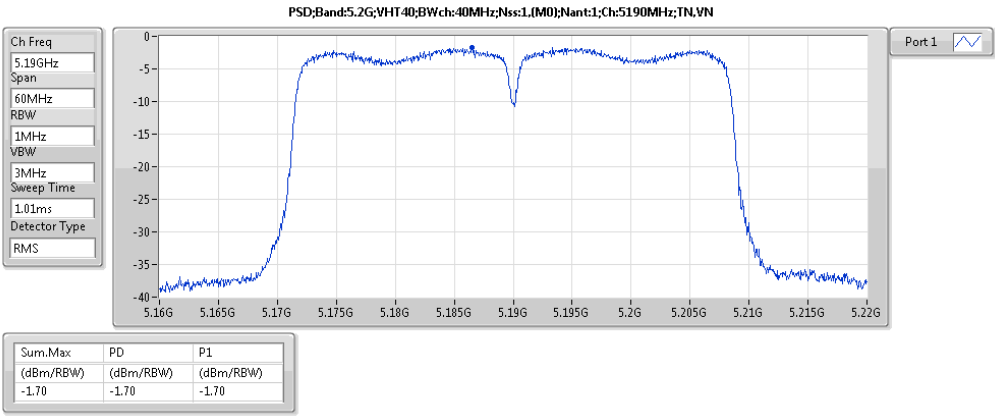
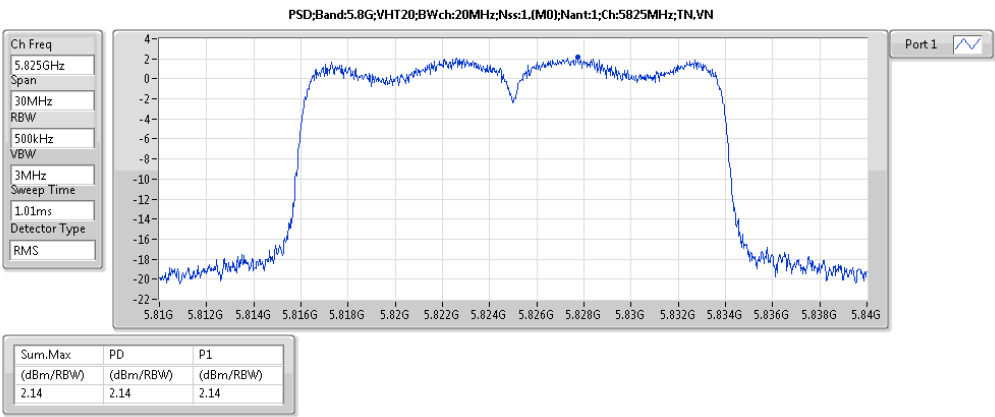
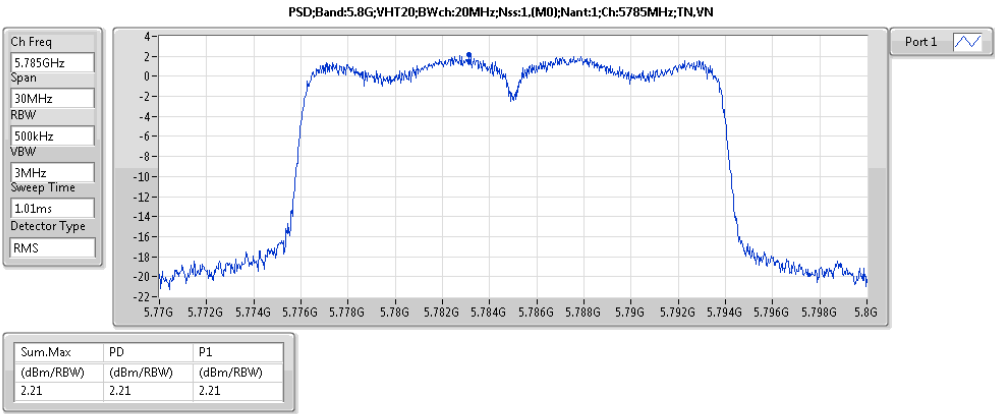
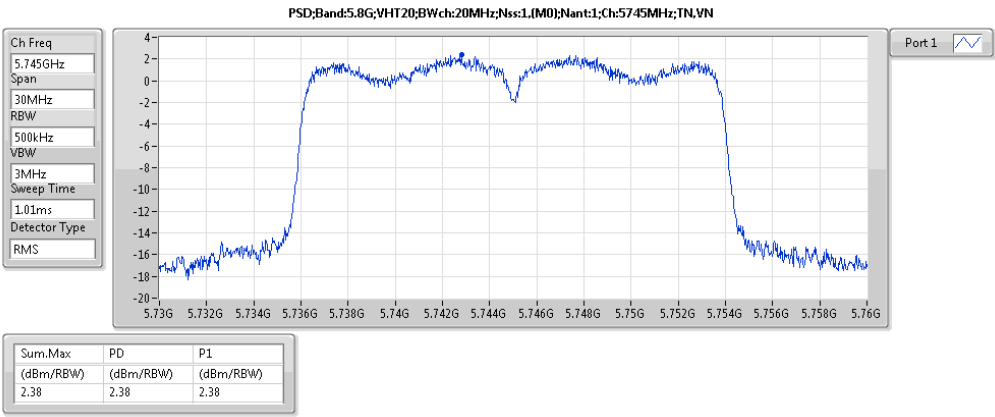
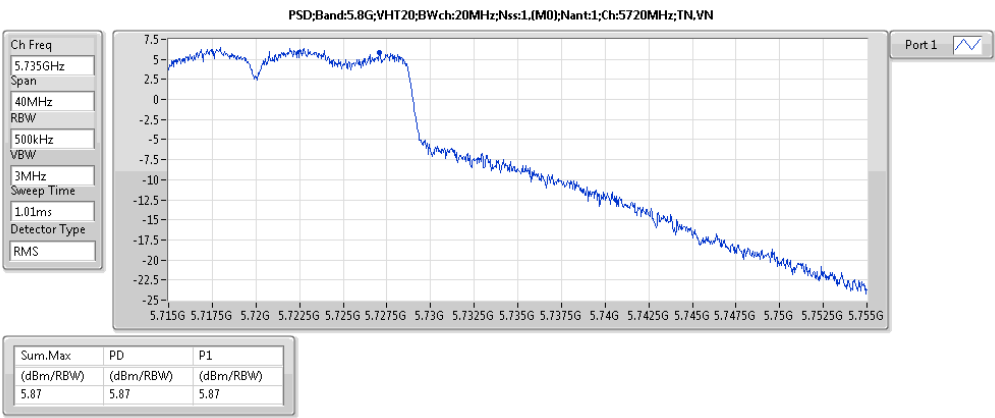
Appendix D





PSD Result

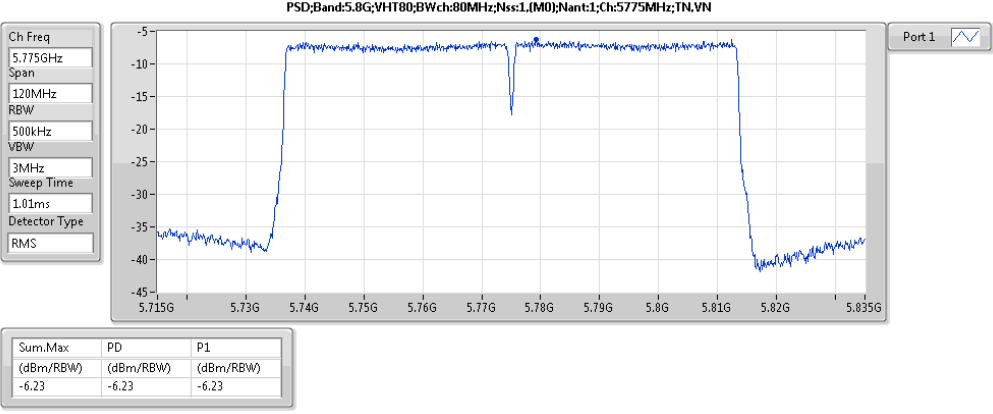
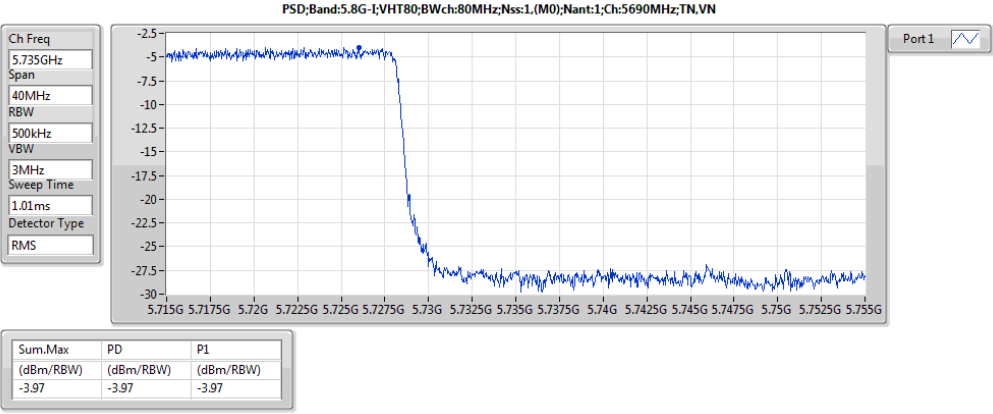
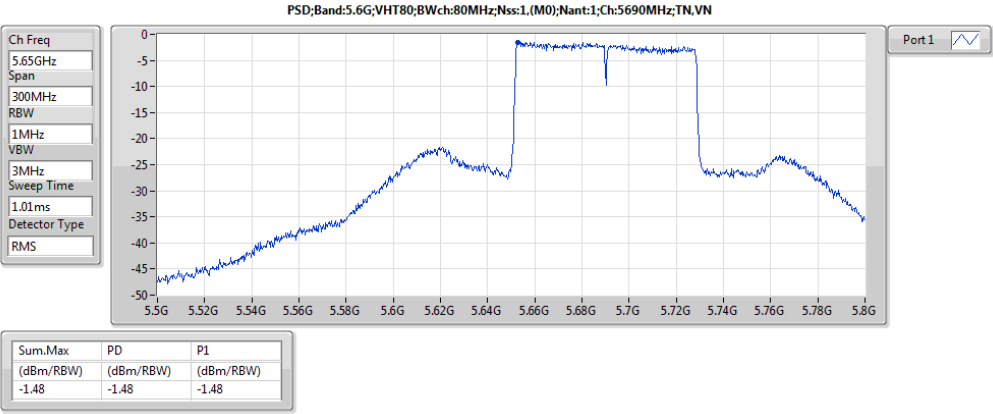
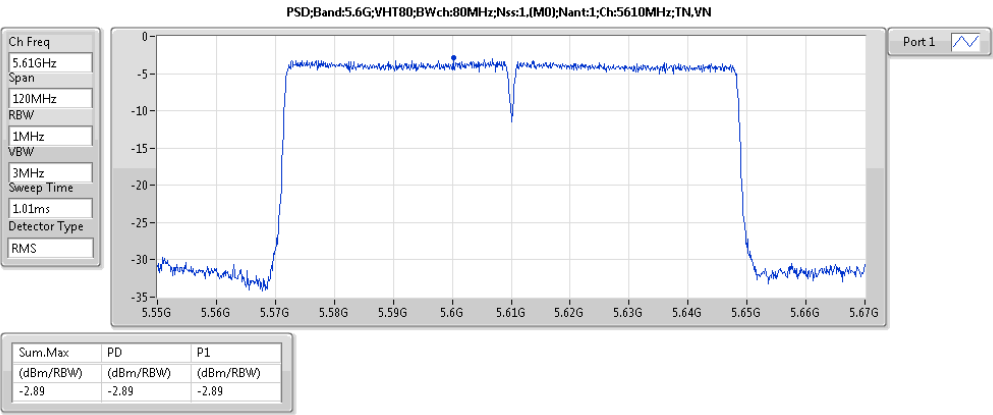
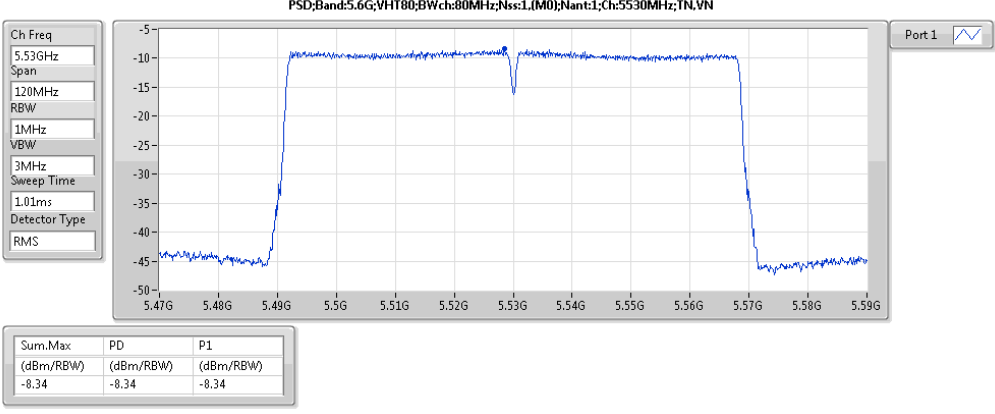
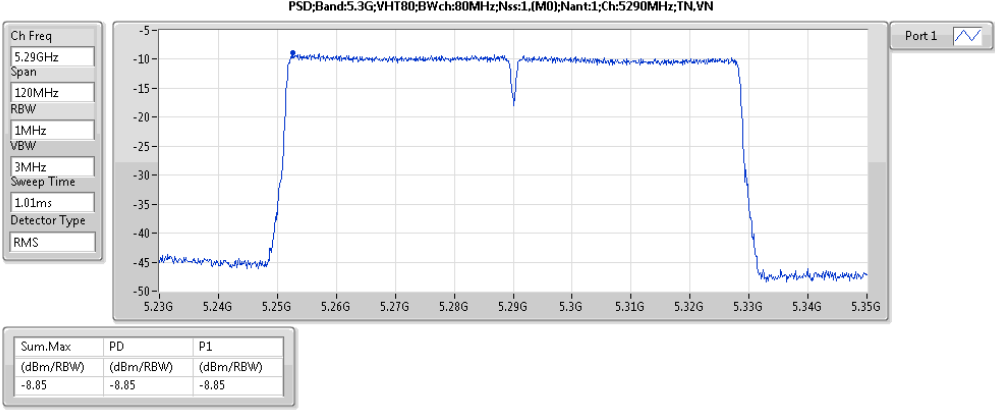
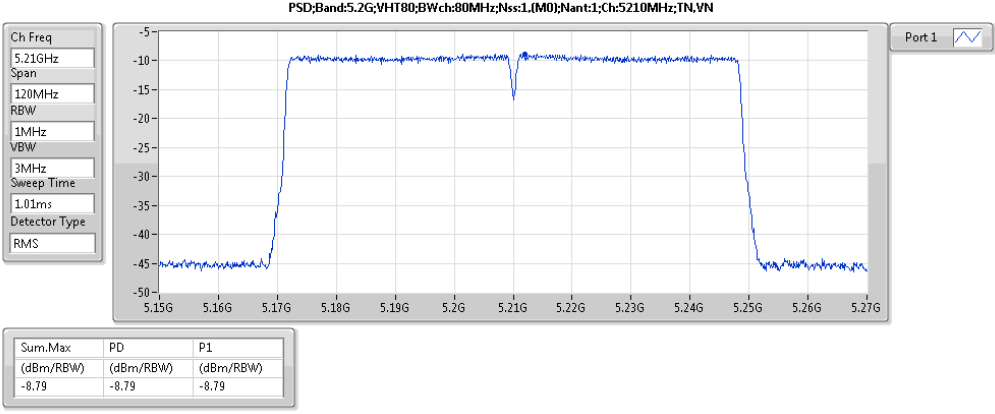
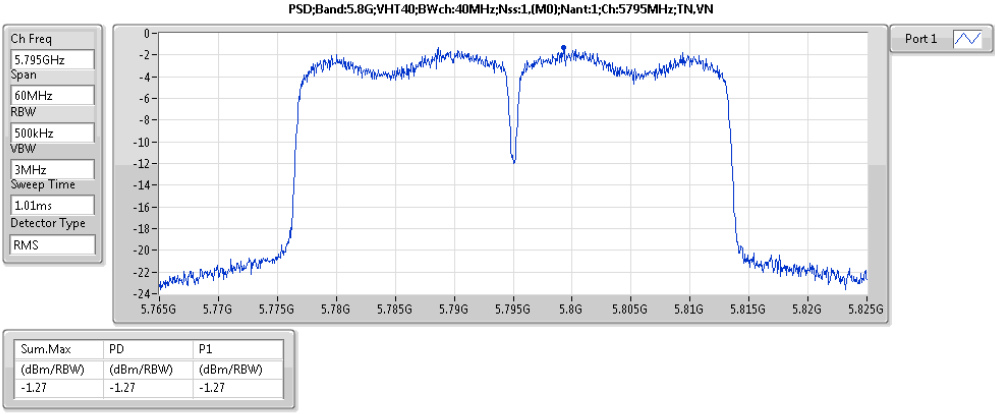
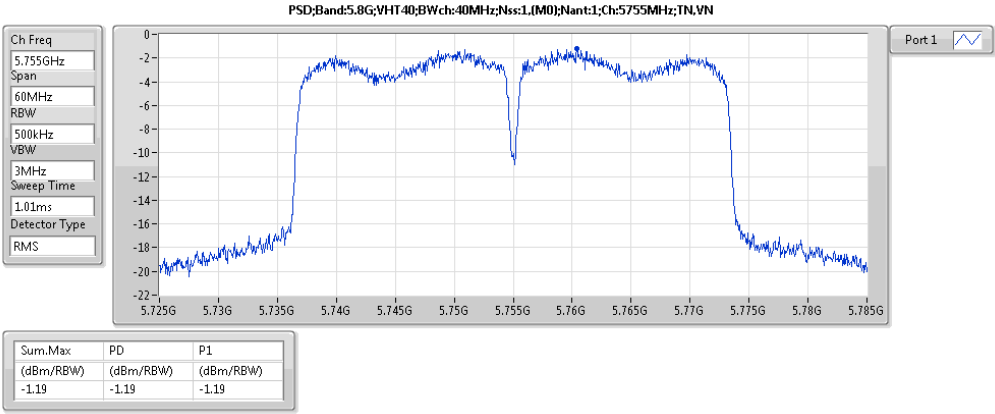
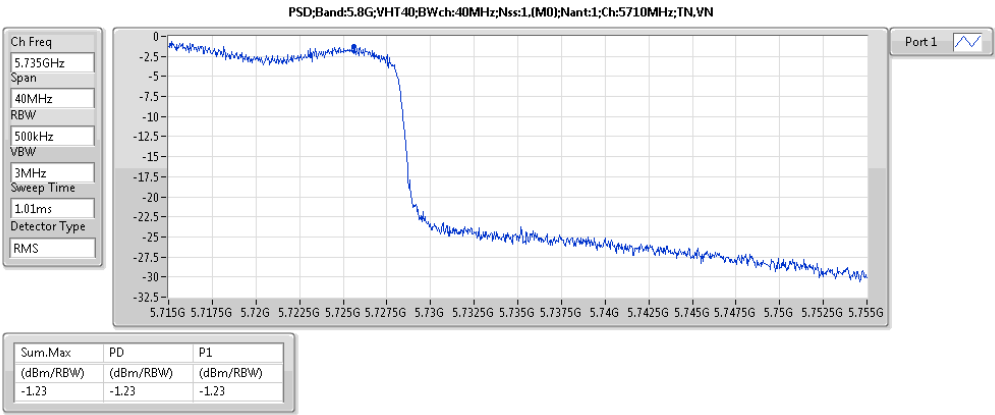
Appendix D





PSD Result

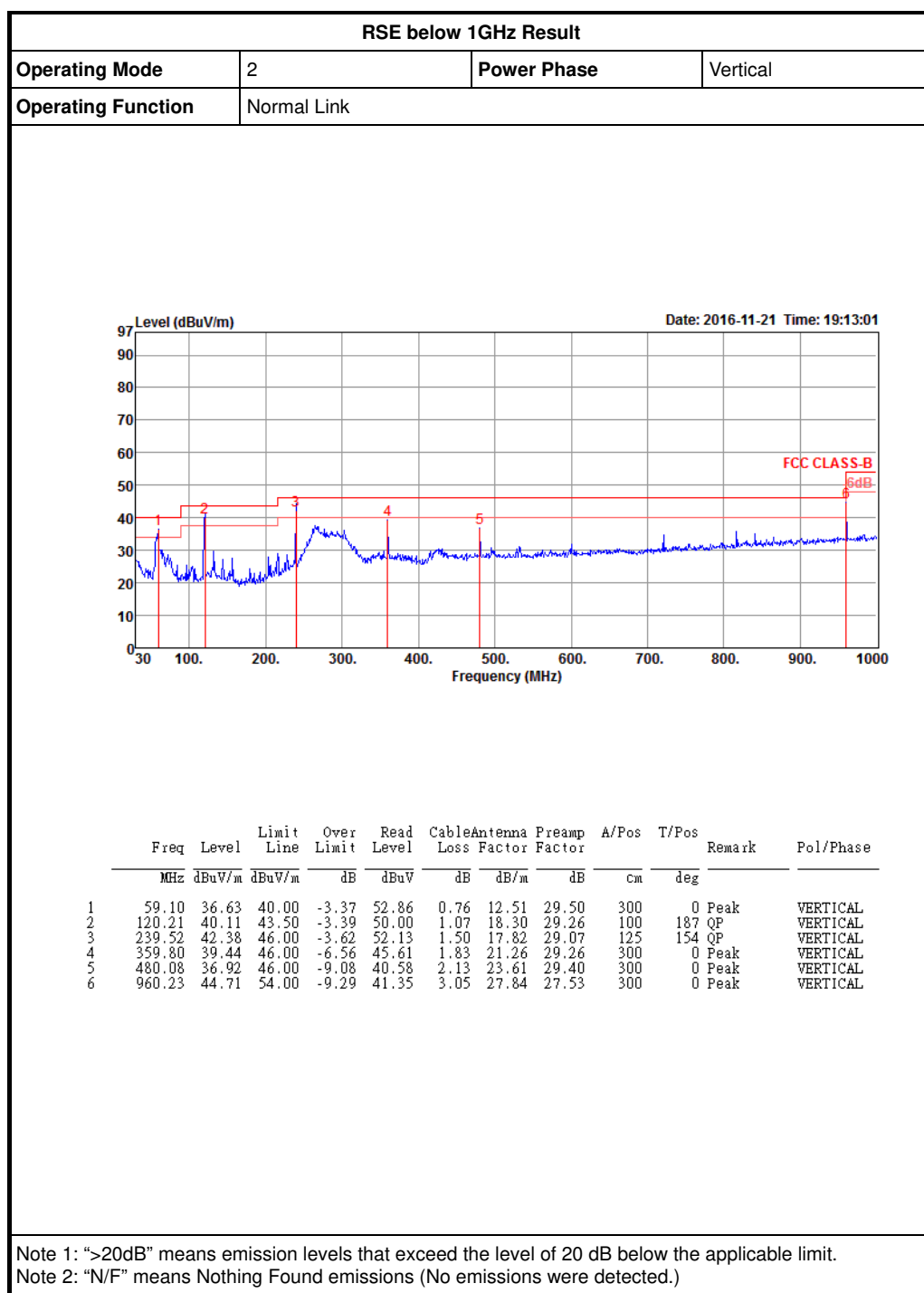
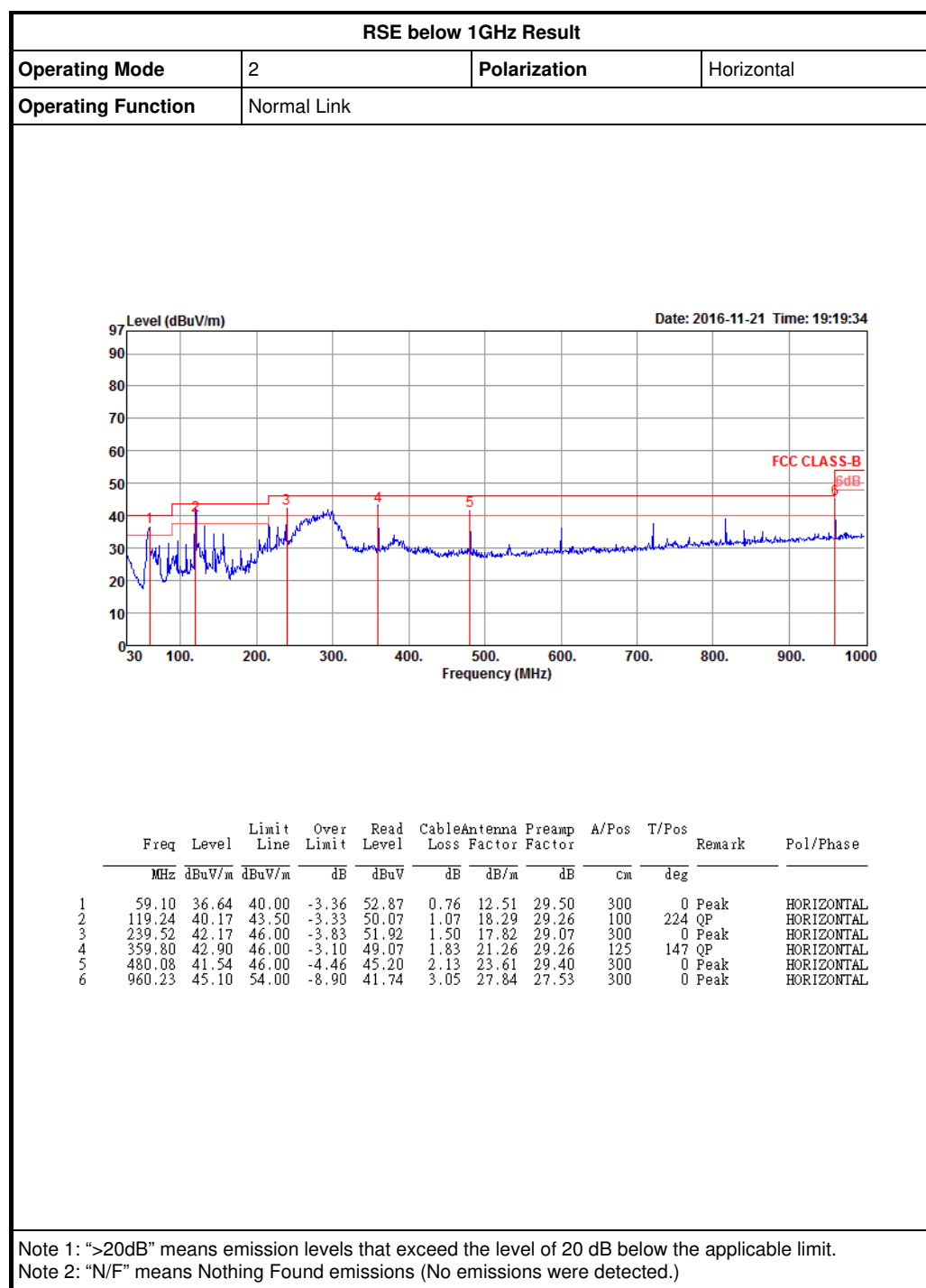
Appendix D





RSE below 1GHz Result

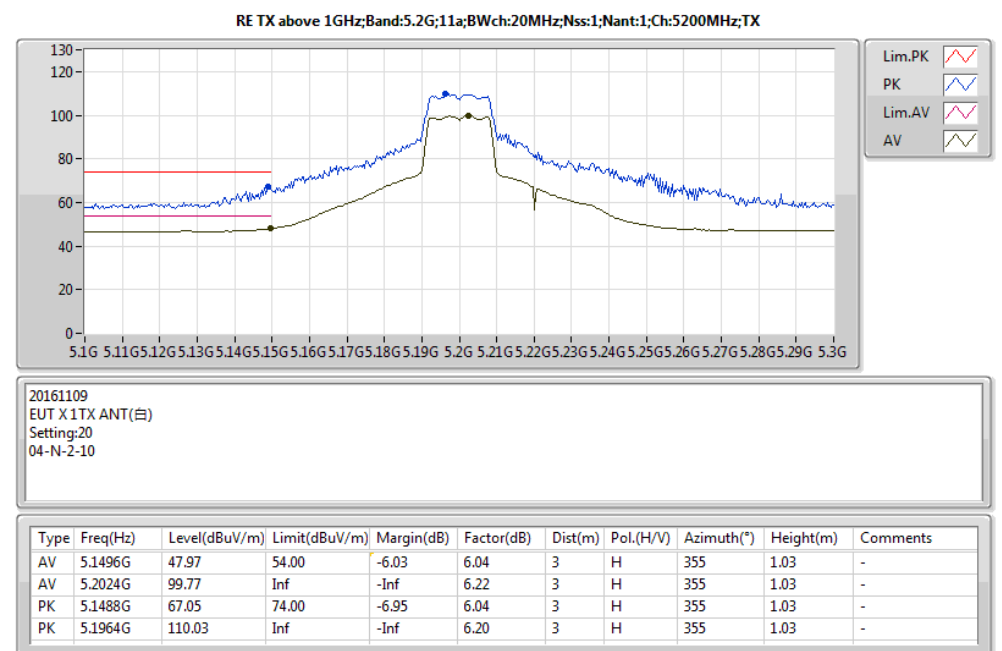
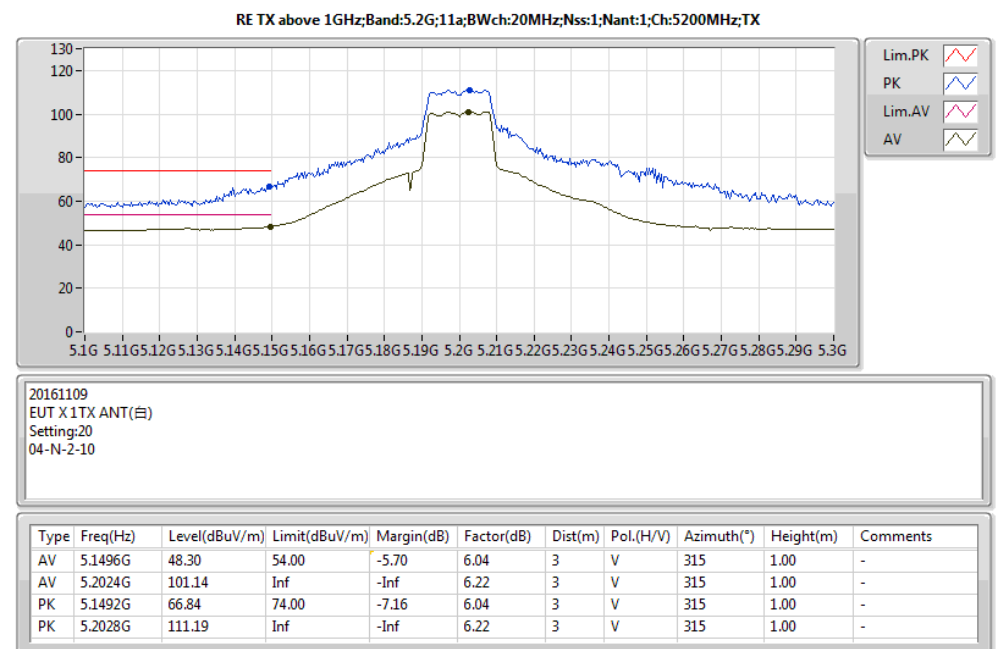
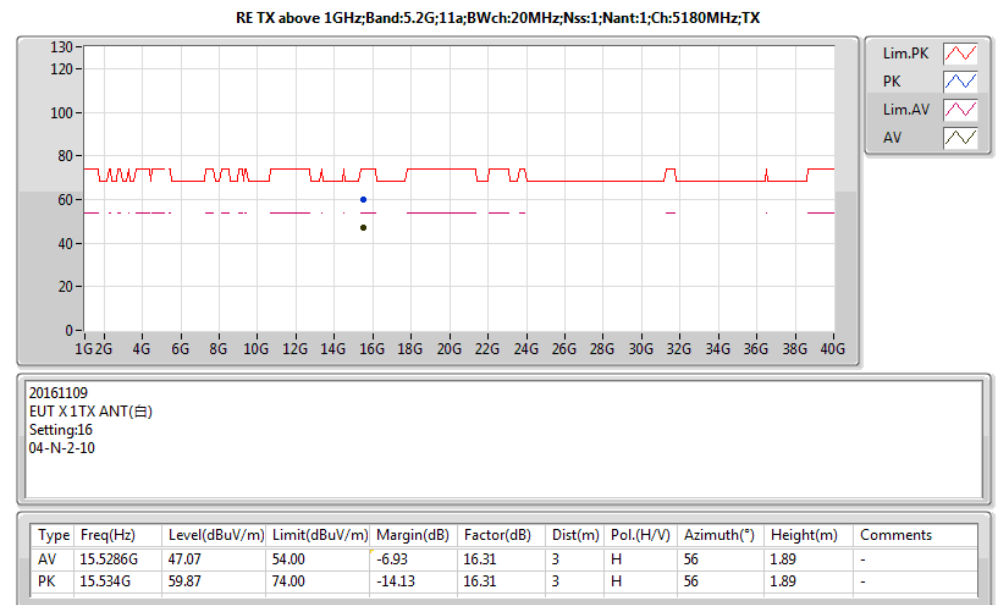
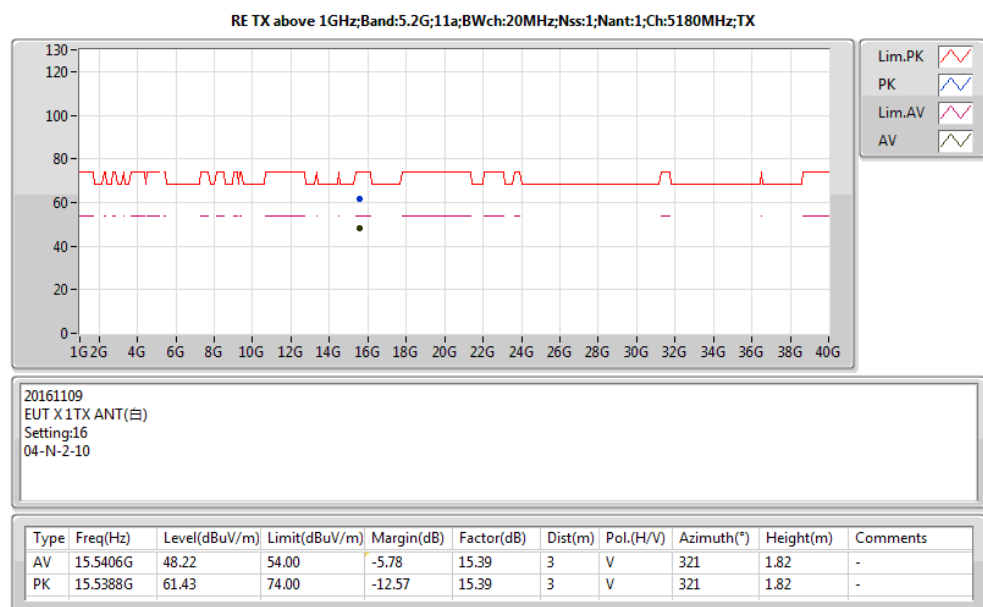
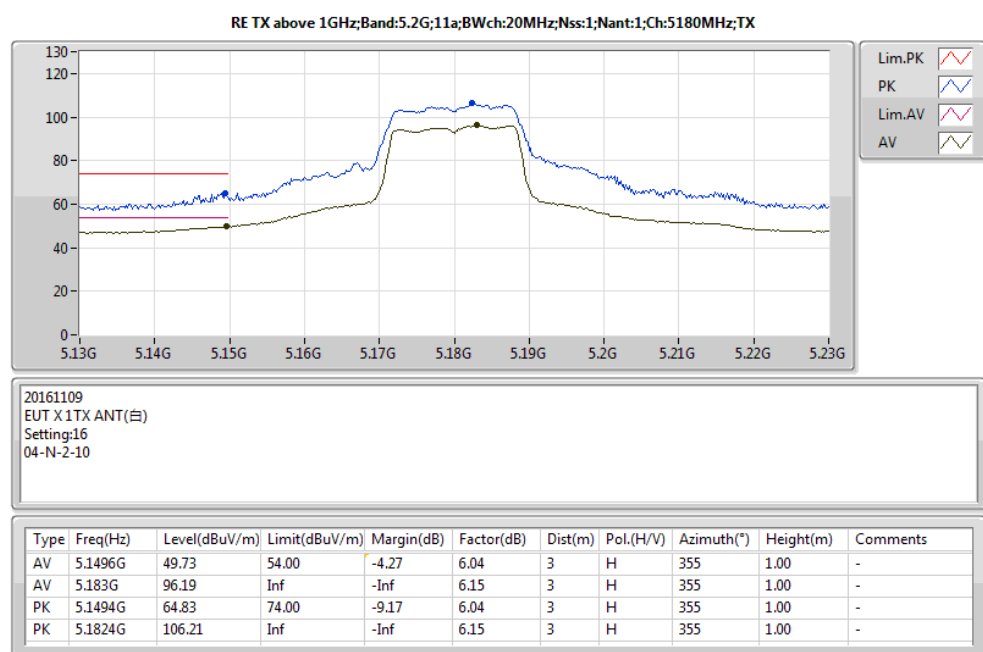
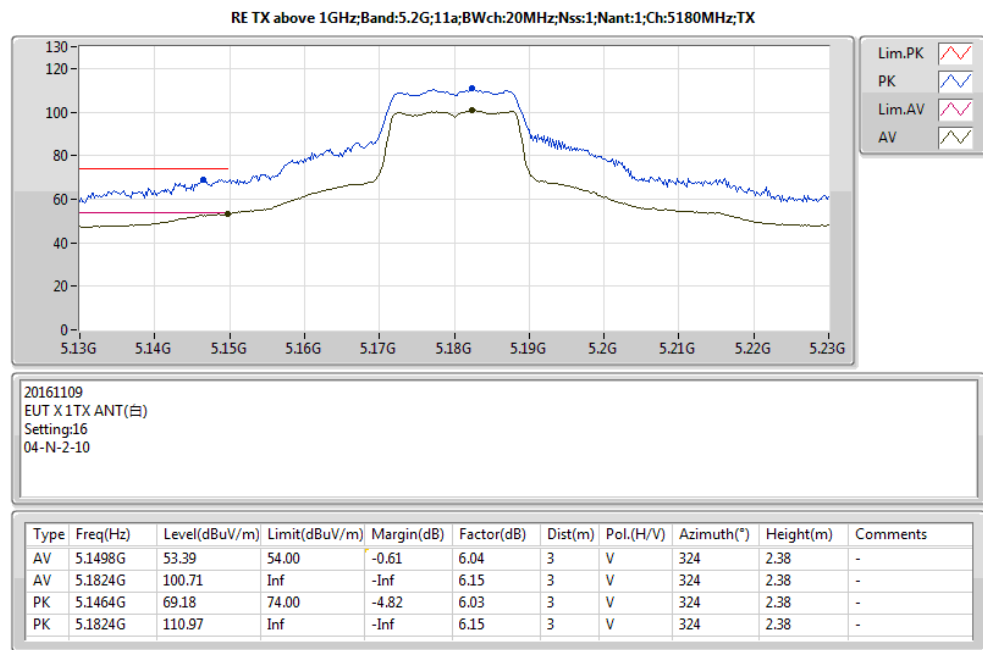
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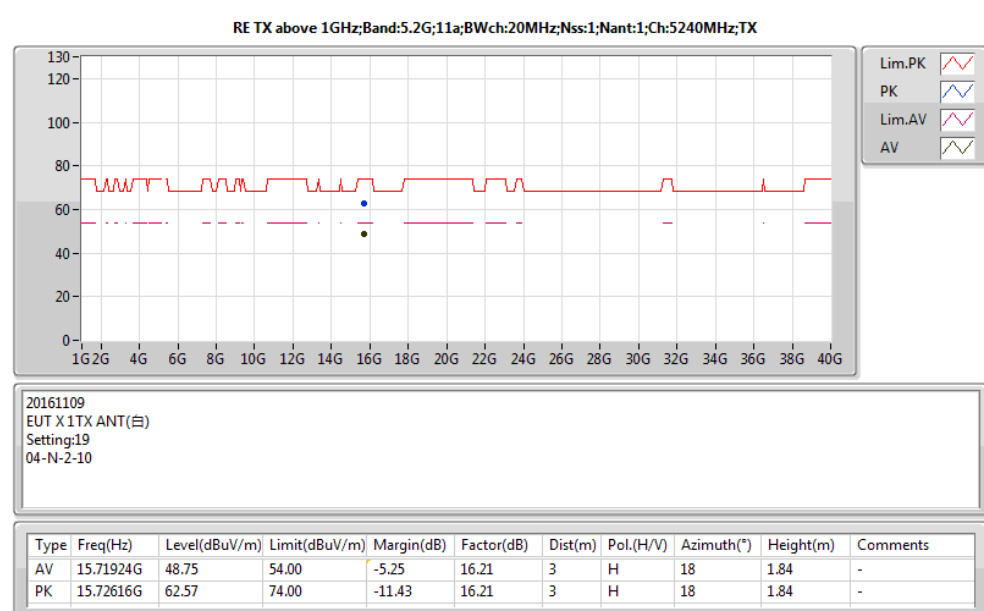
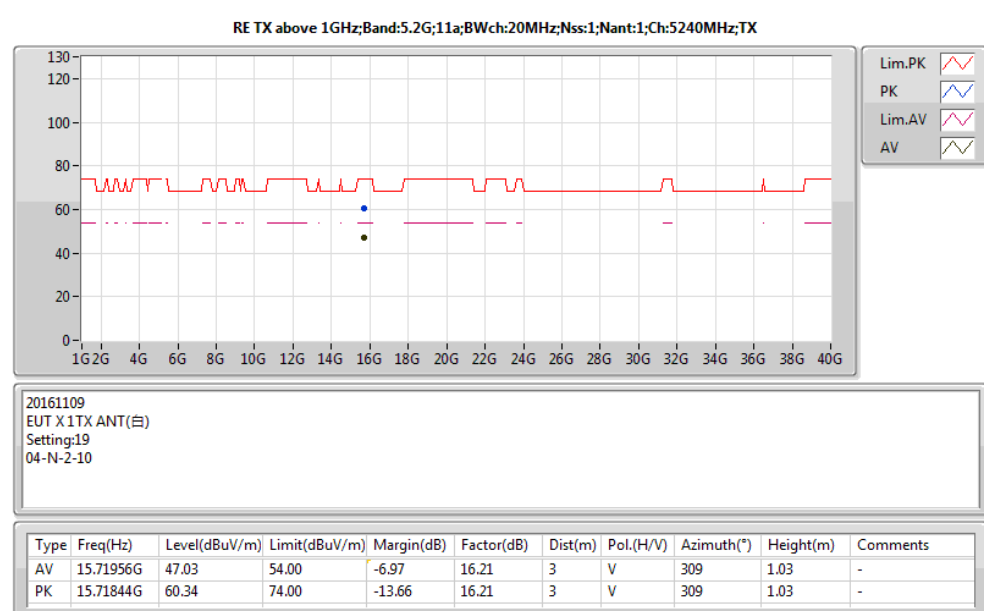
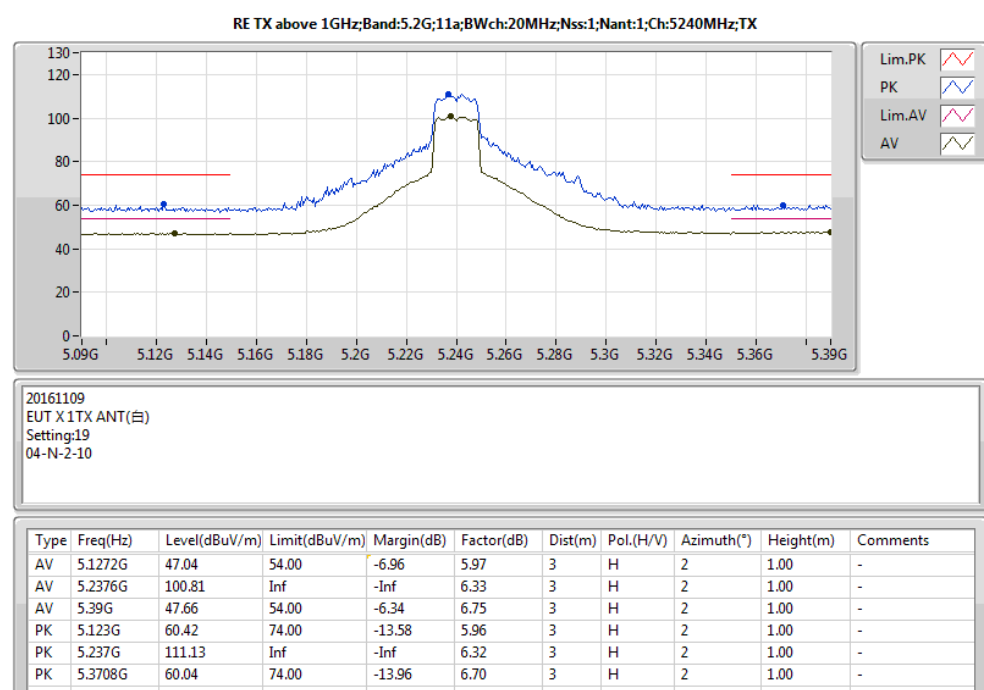
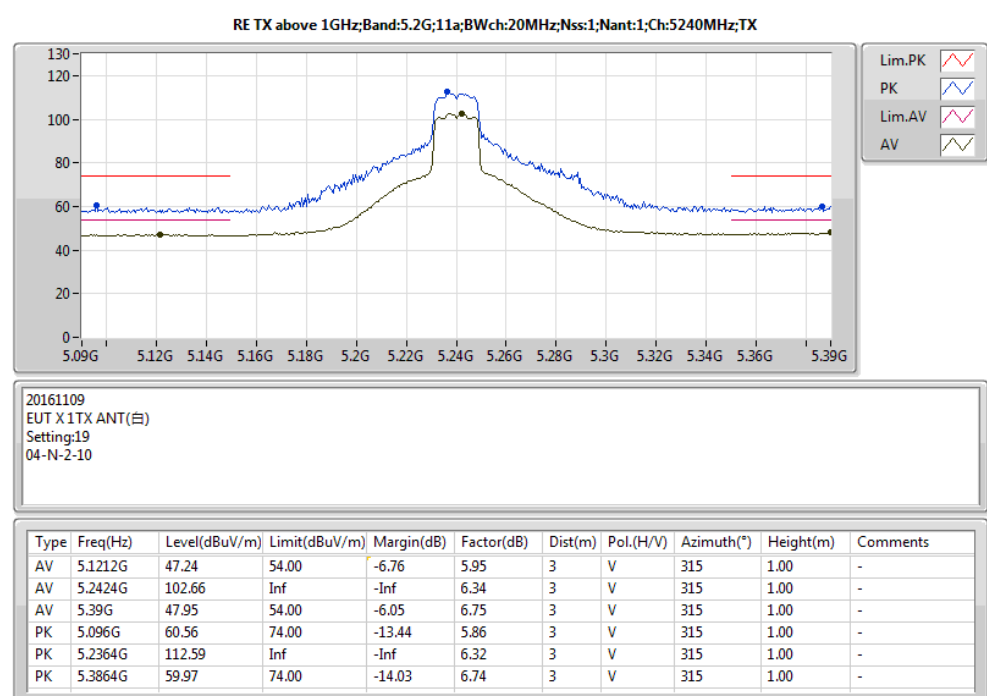
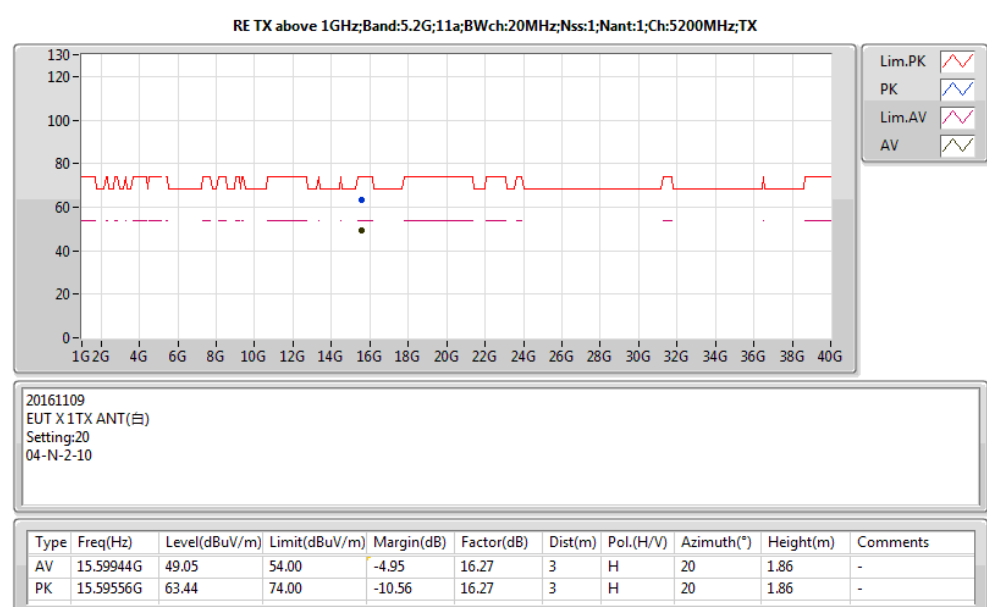
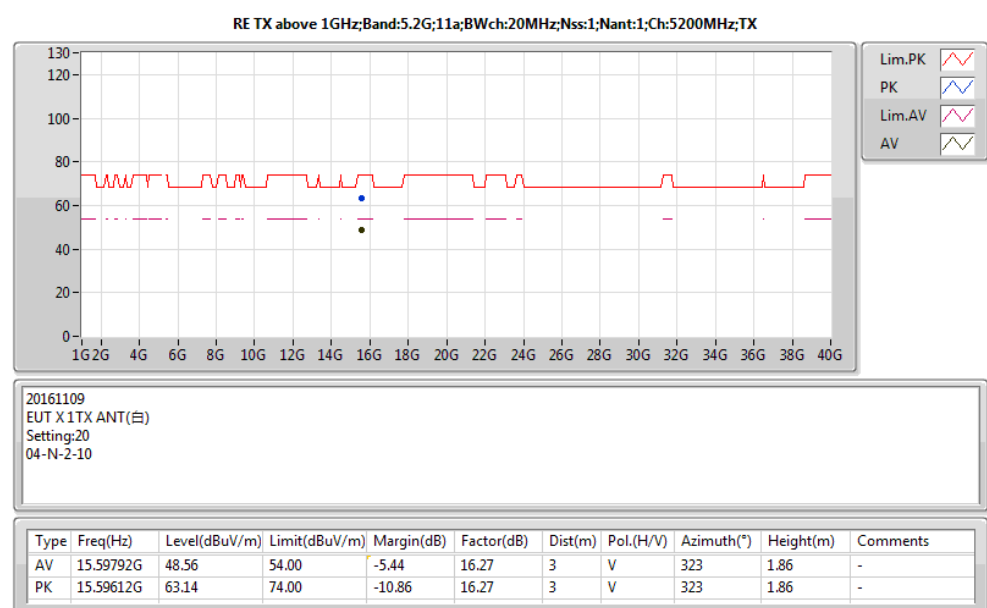


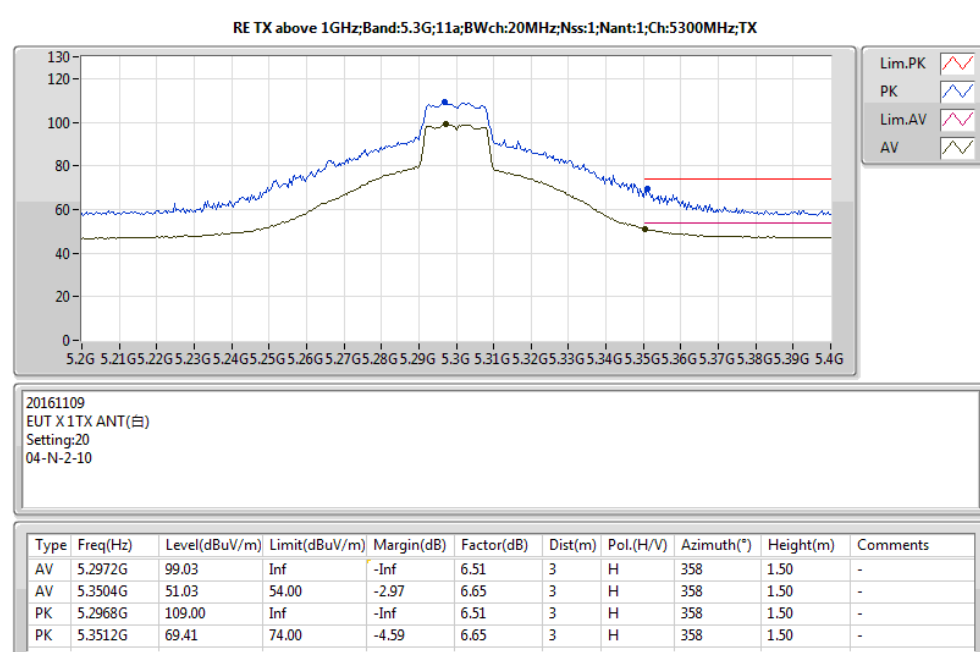
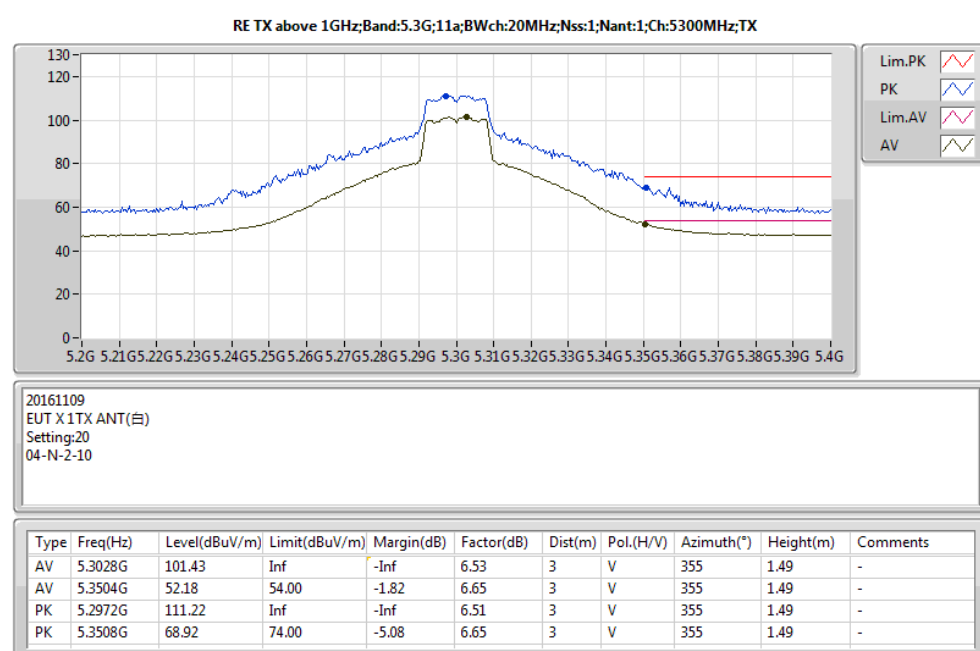
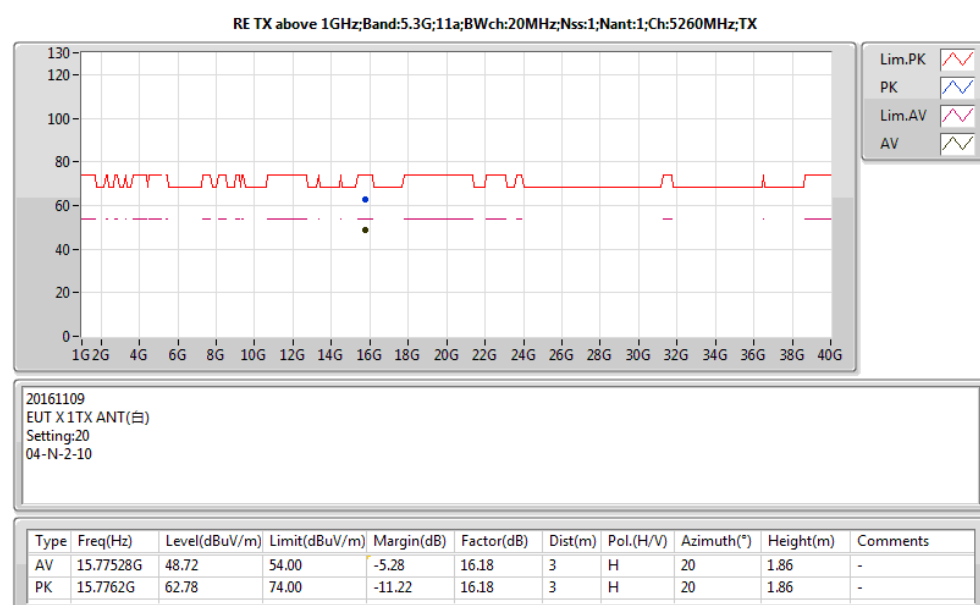
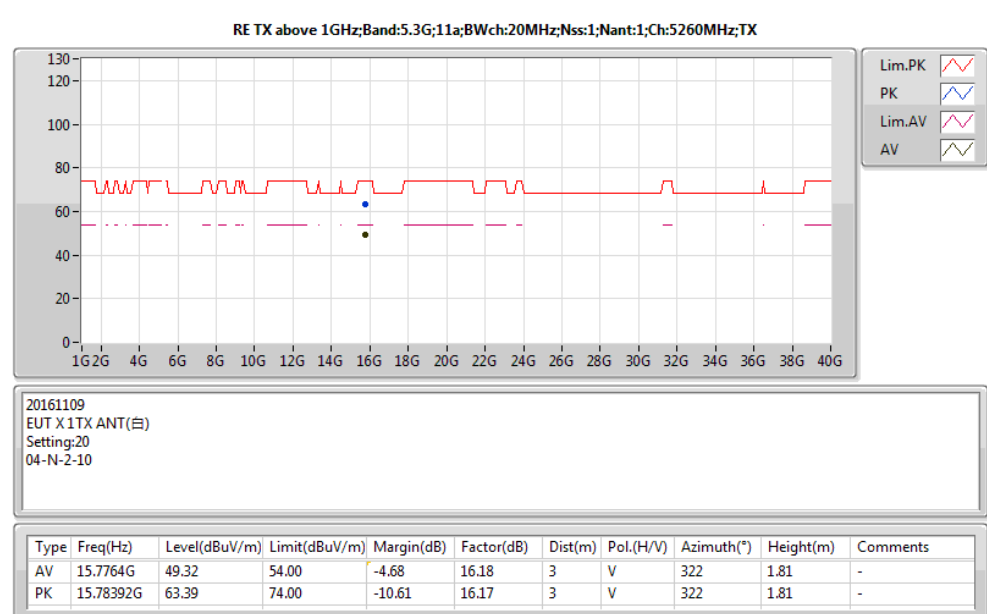
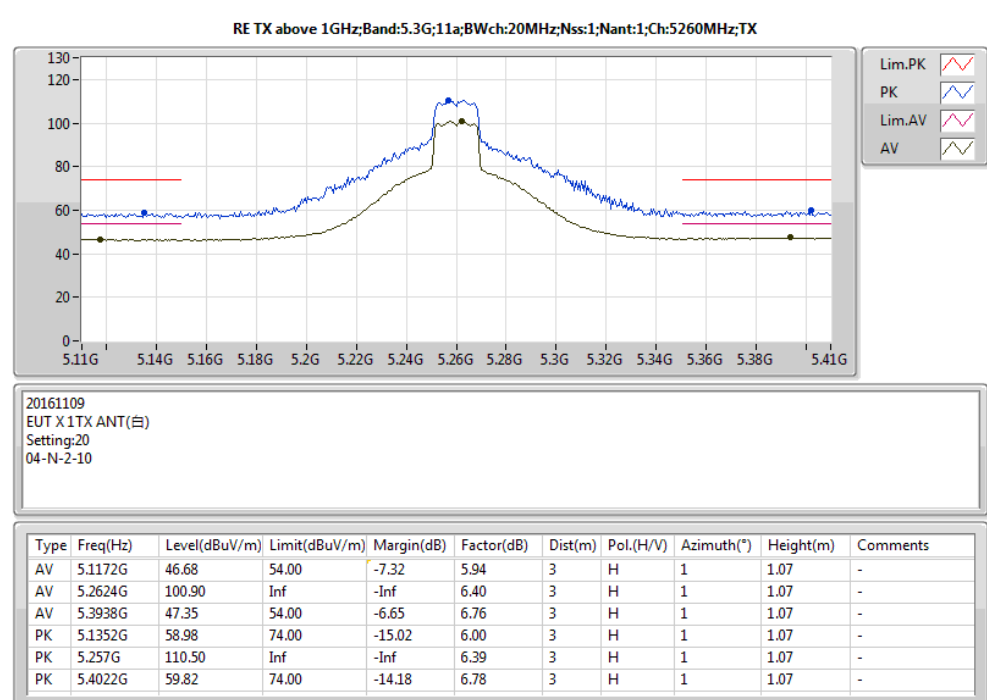
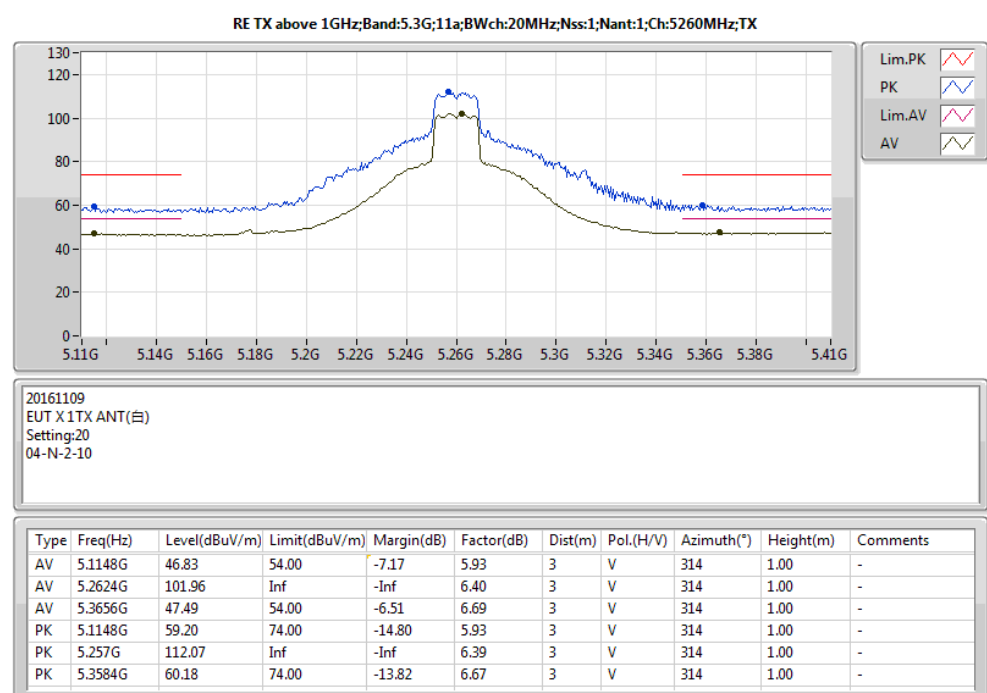


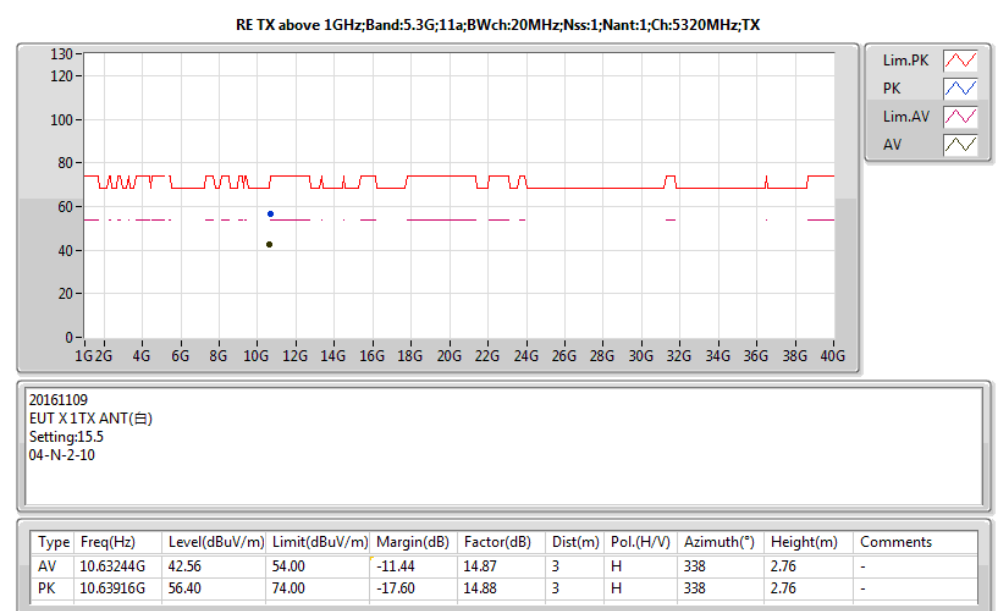
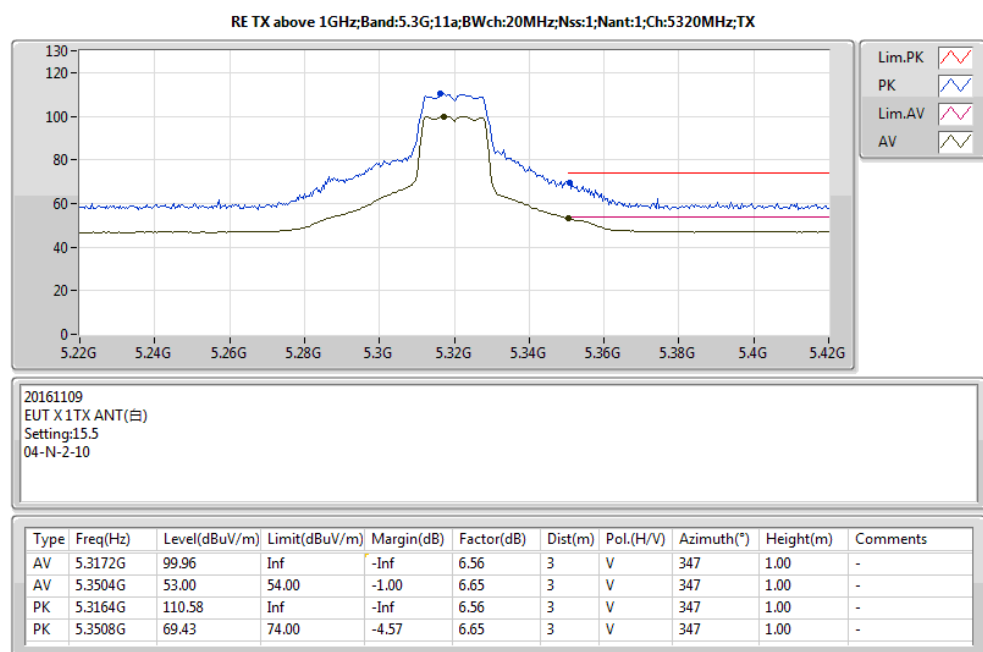
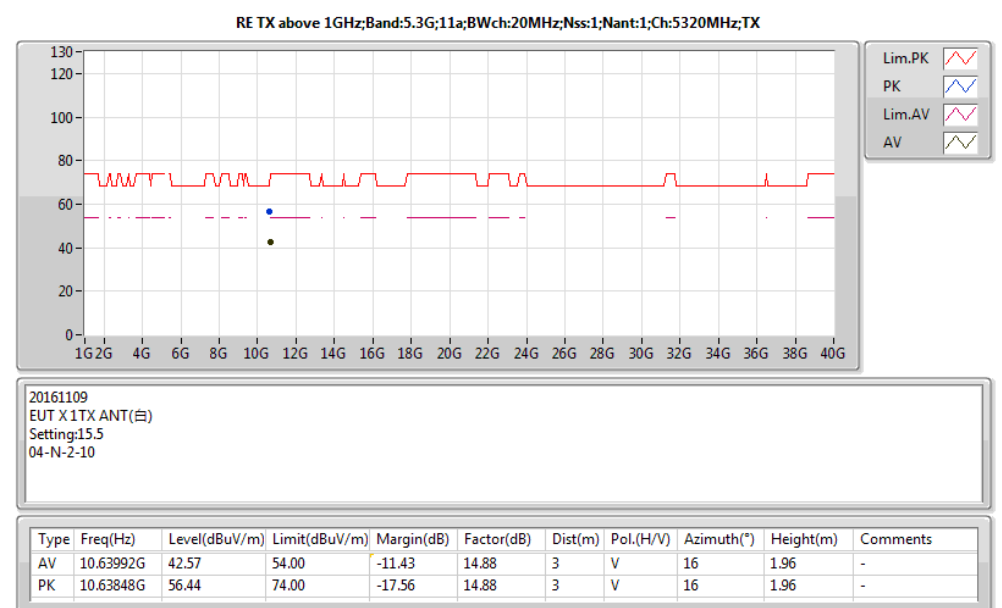
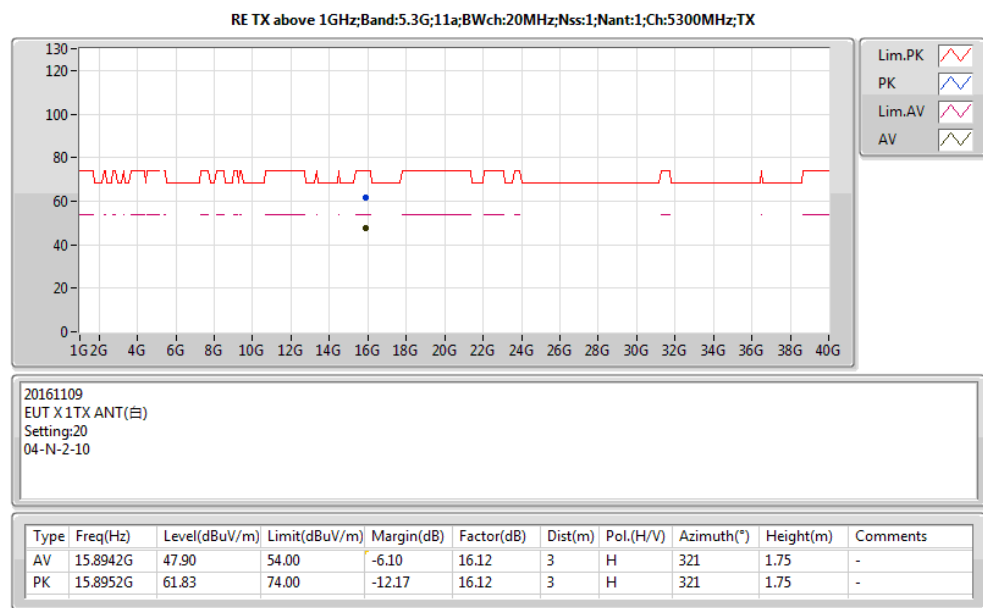
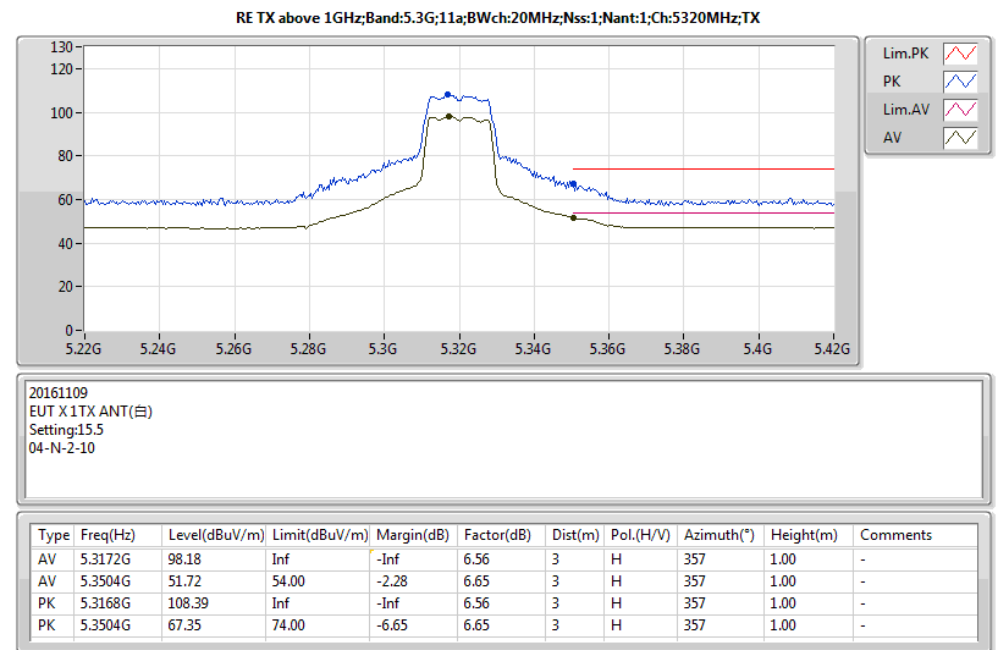
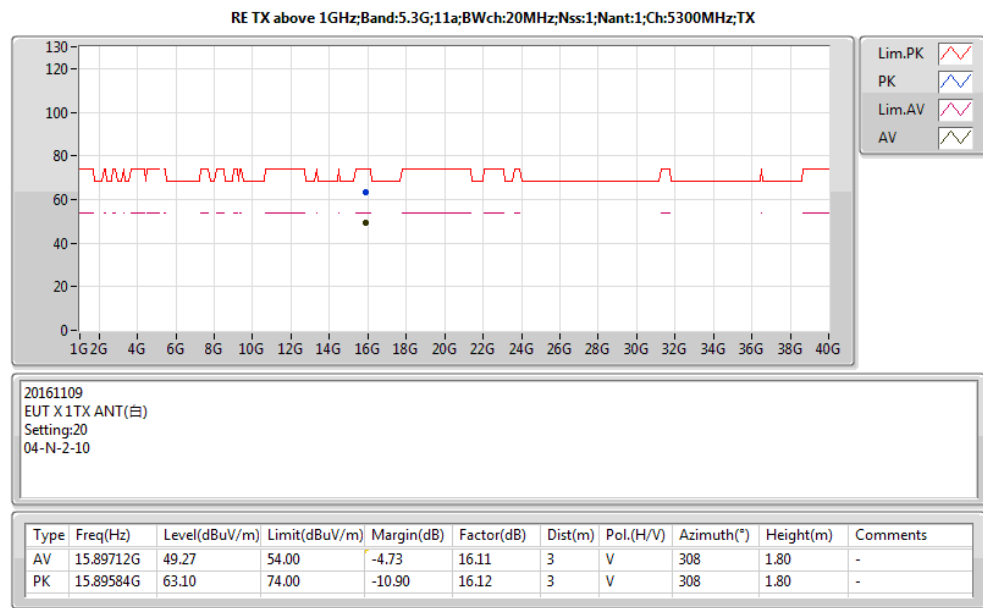
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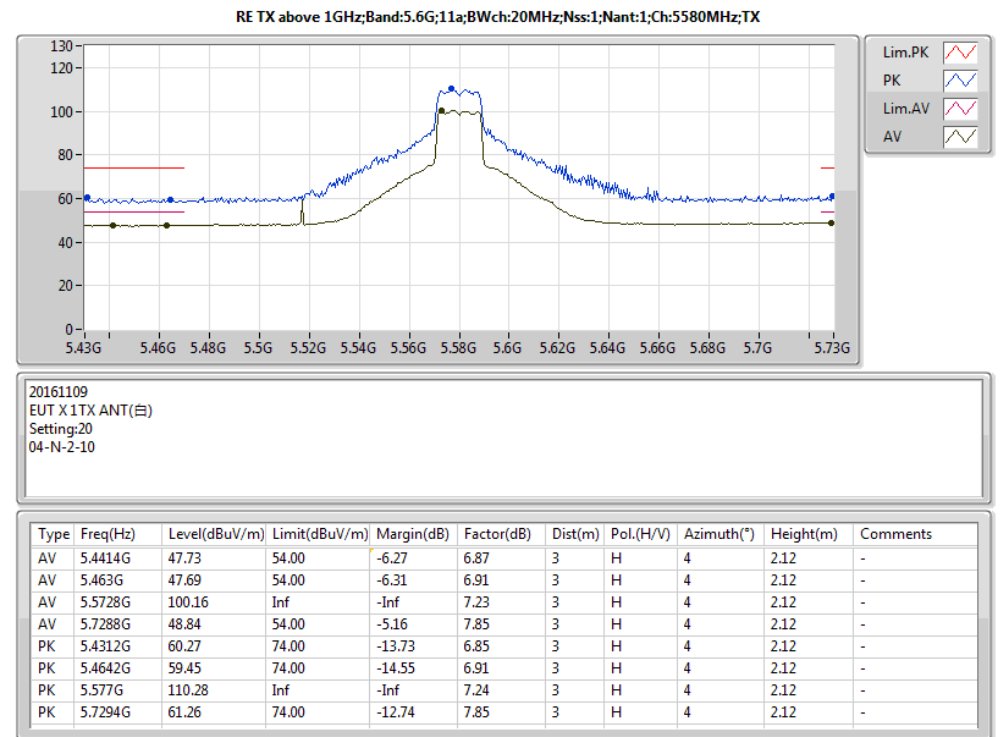
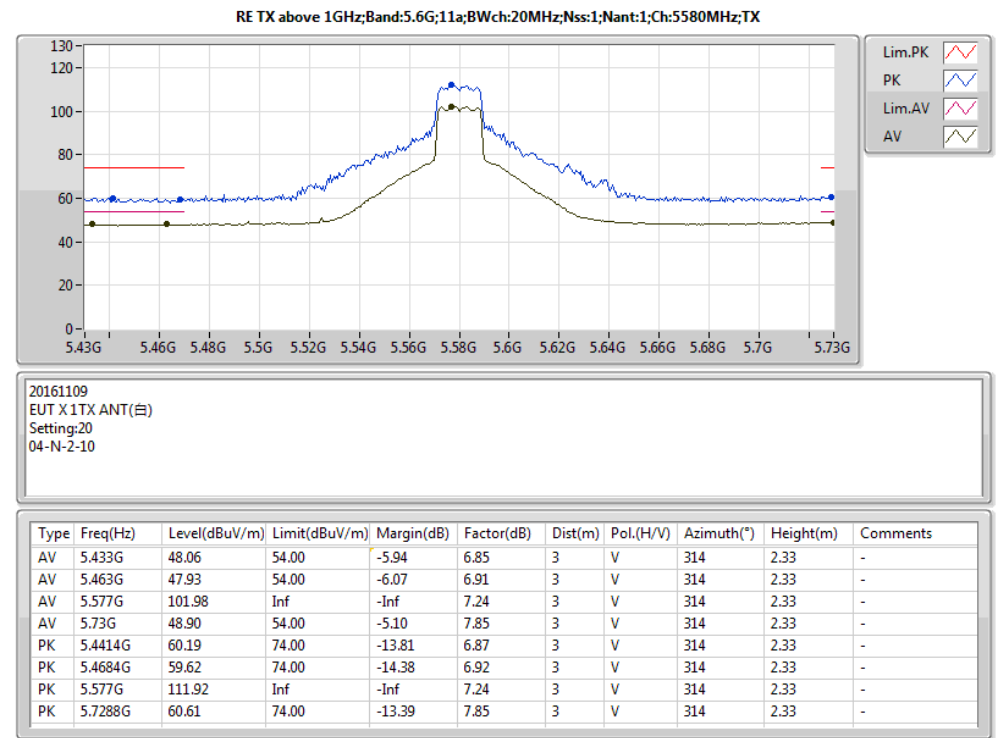
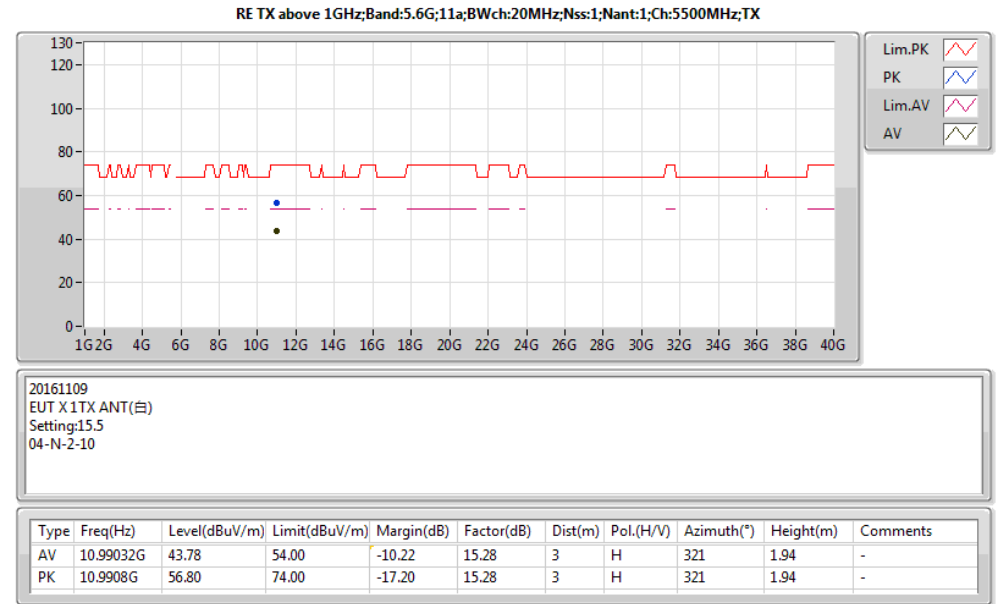
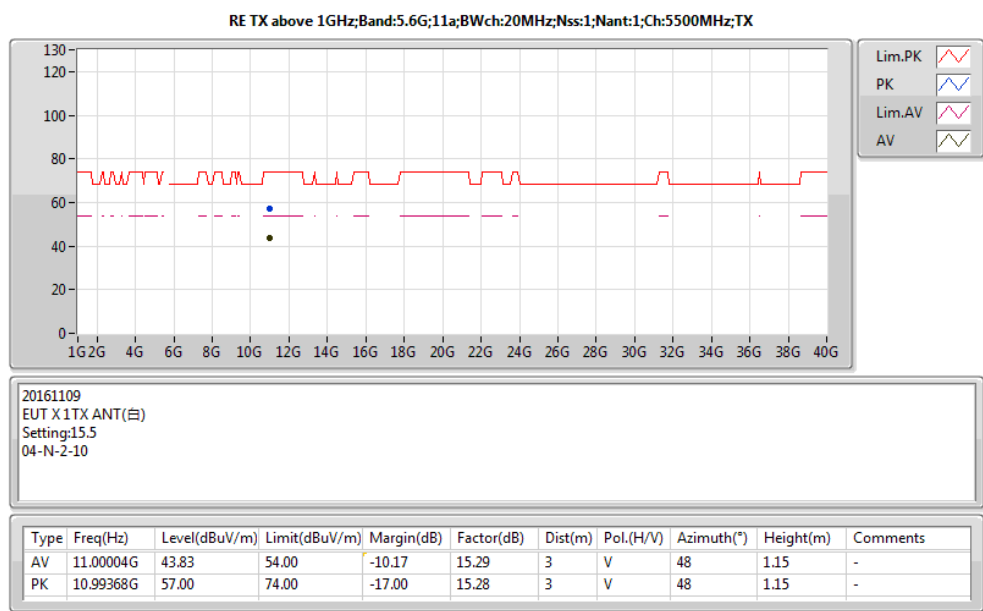
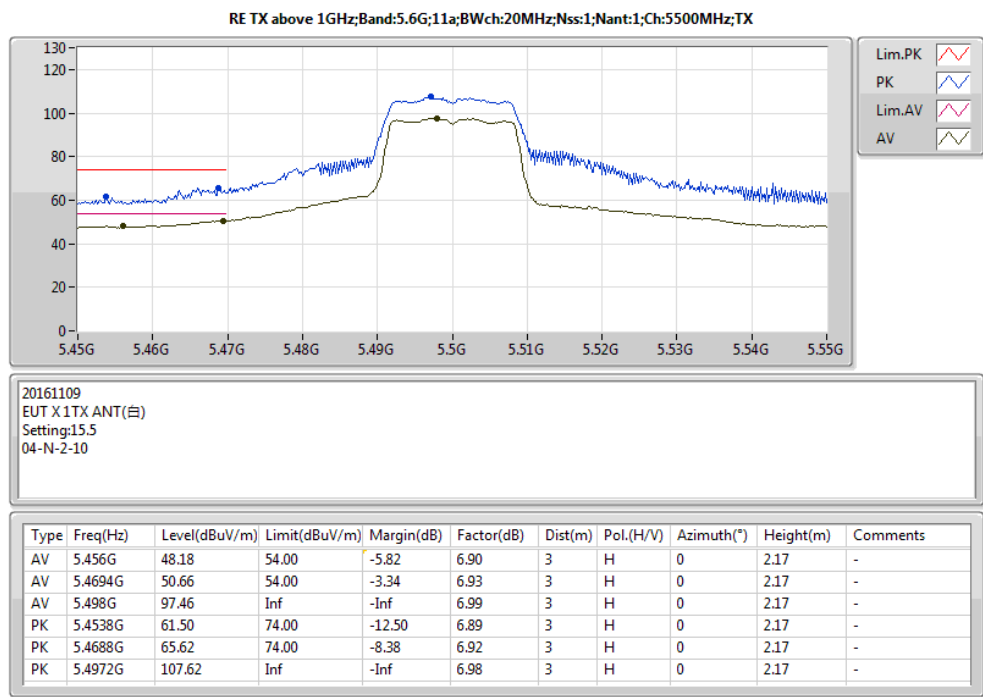
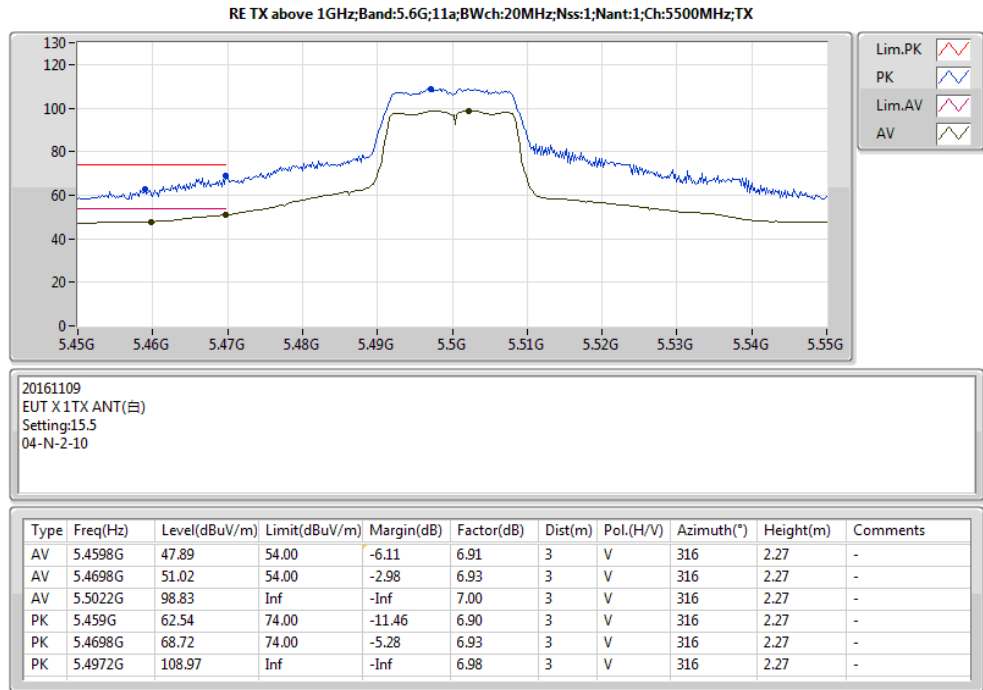
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5.6G;VHT80;80;1;(M0);1;5530;L;TX	Pass	AV	5.458G	53.96	54.00	-0.04	6.90	3	H	7	2.48	-

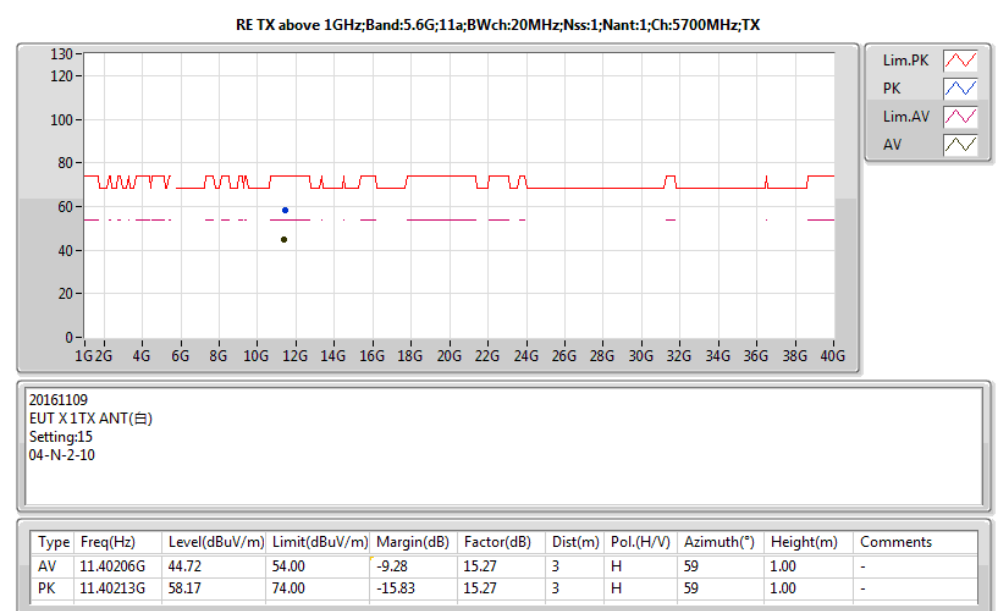
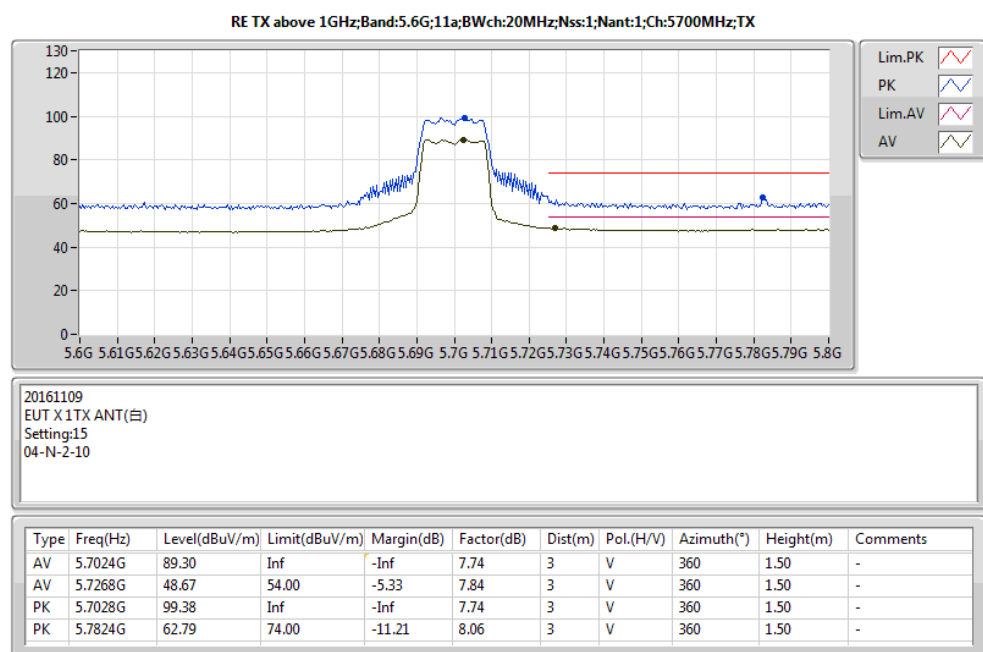
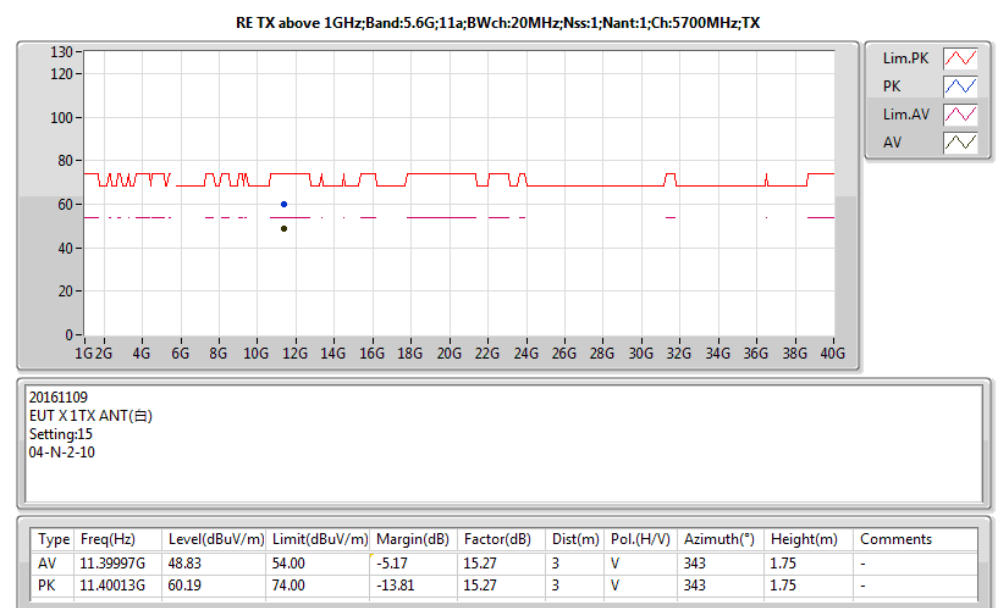
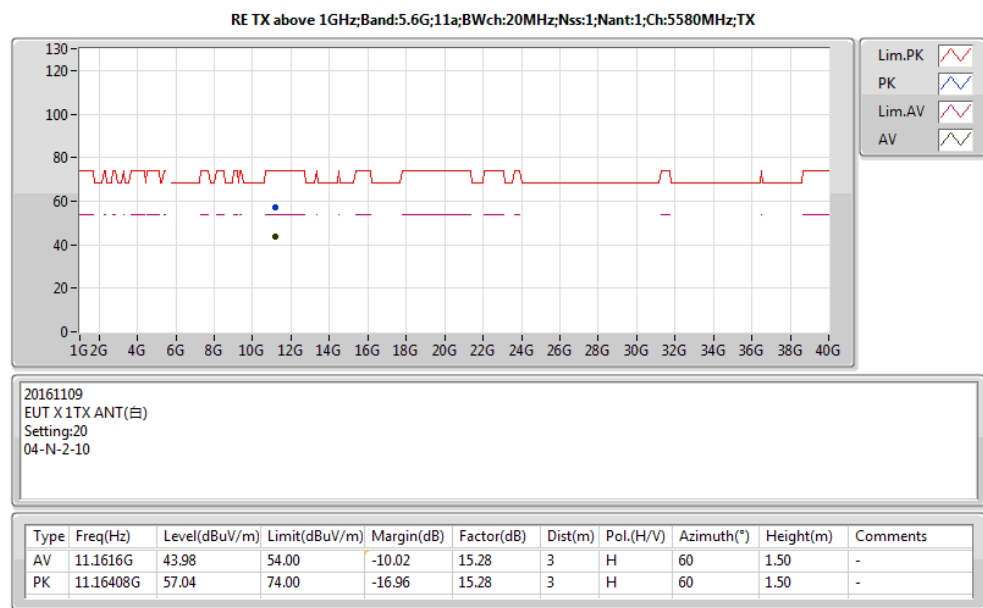
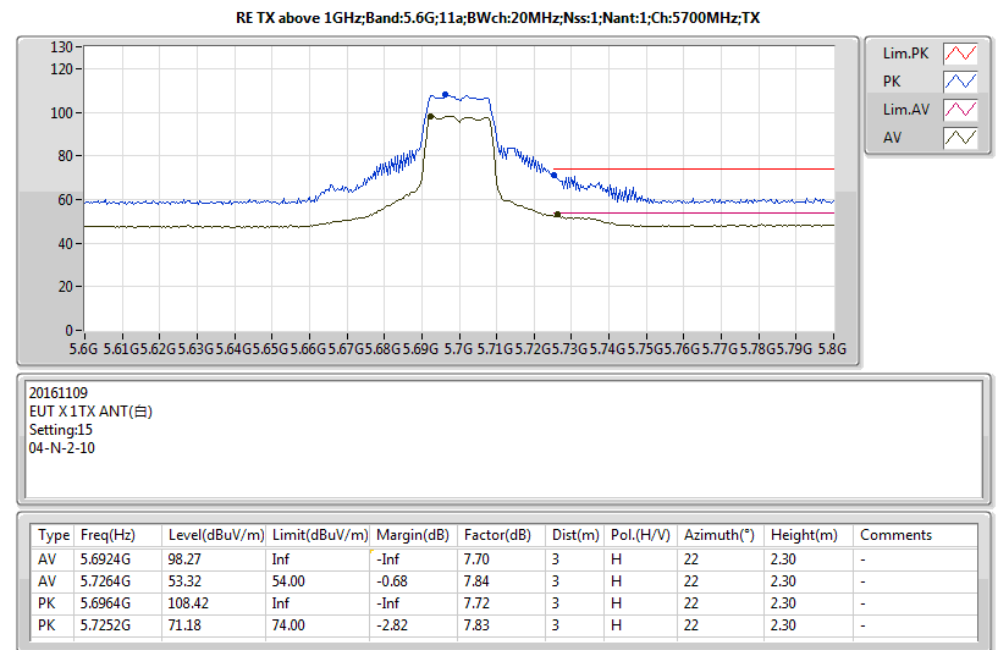
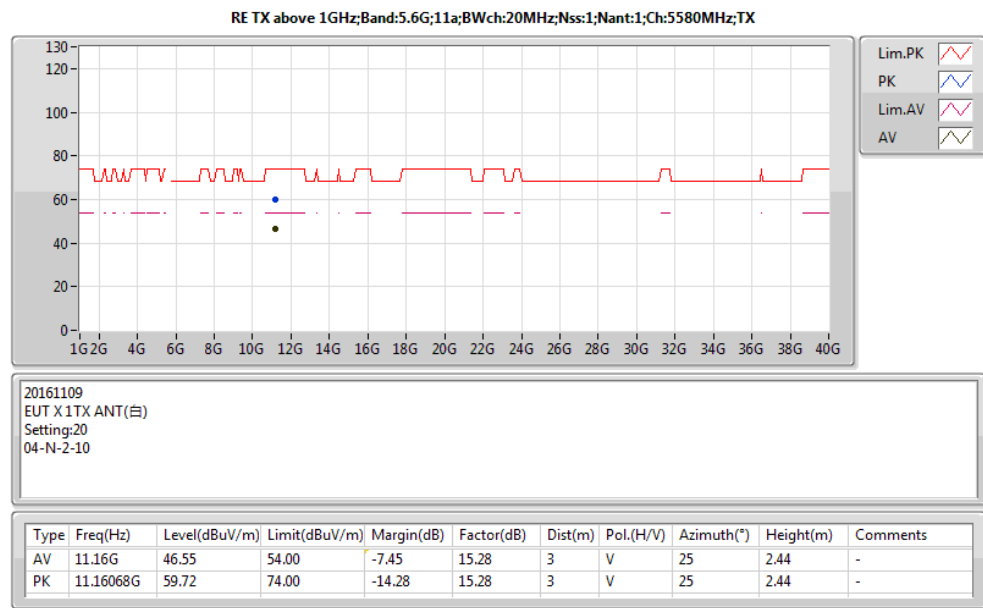


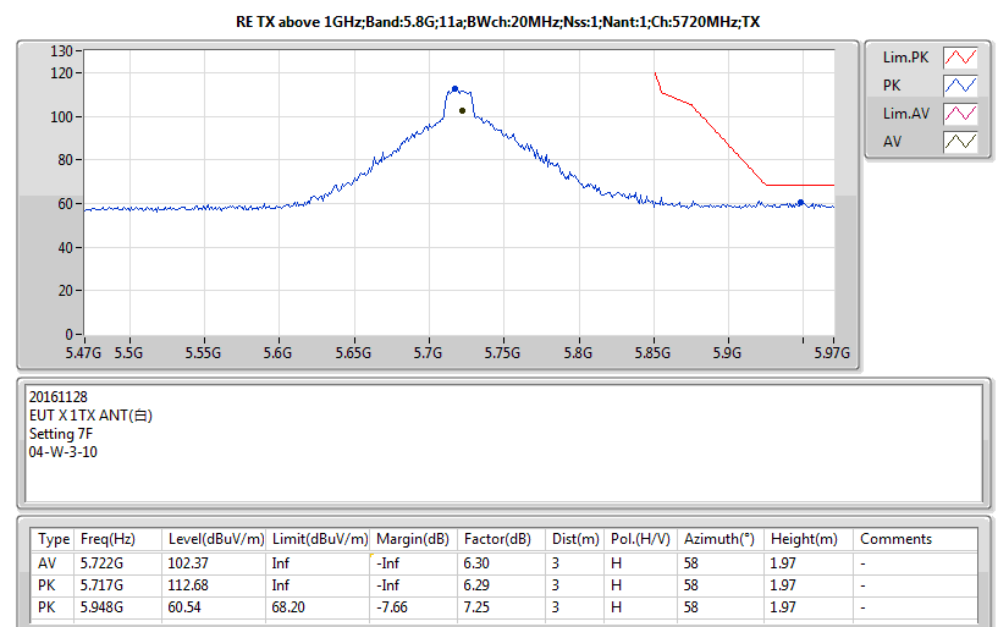
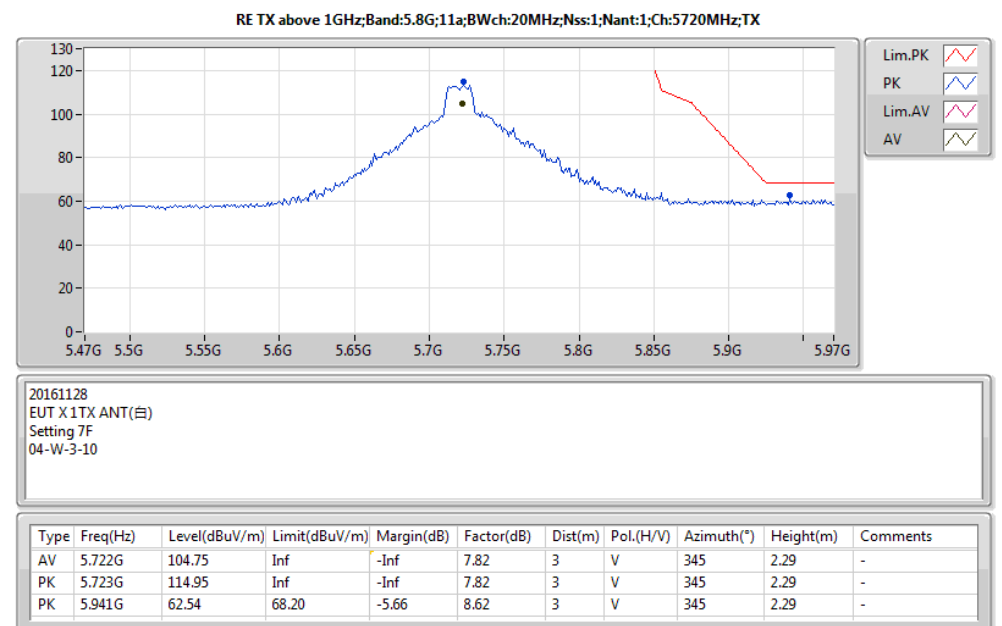
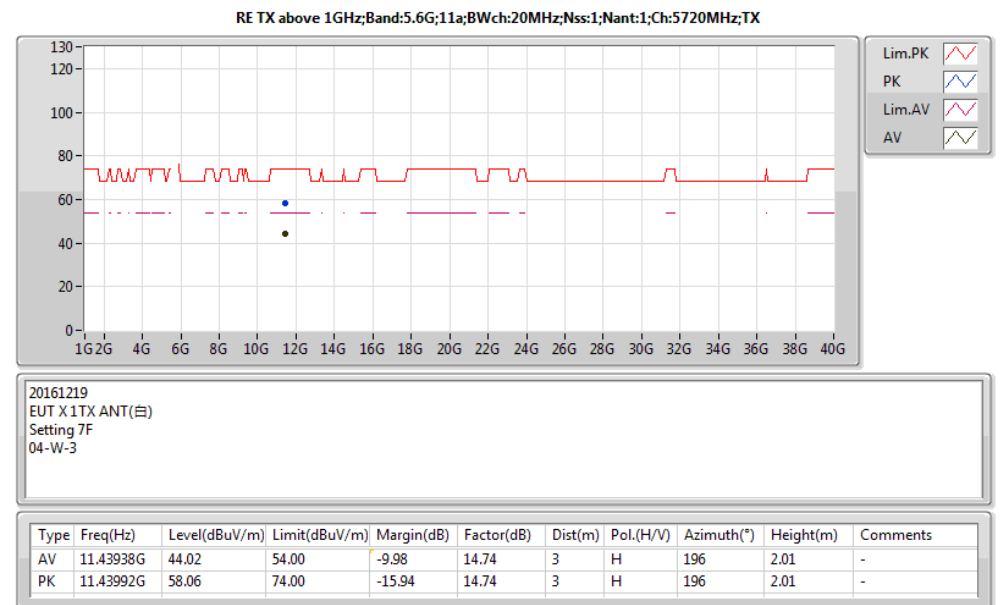
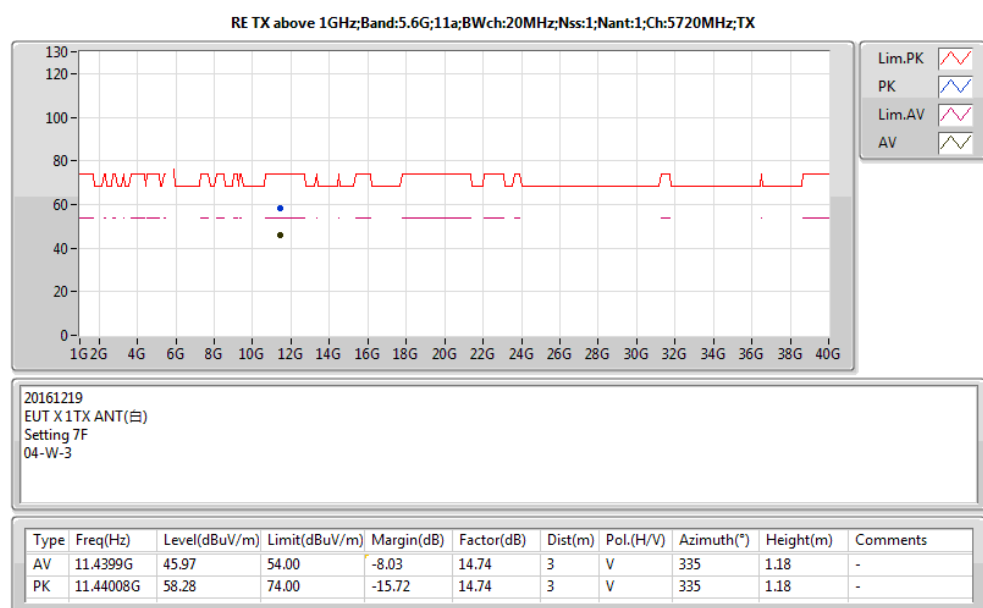
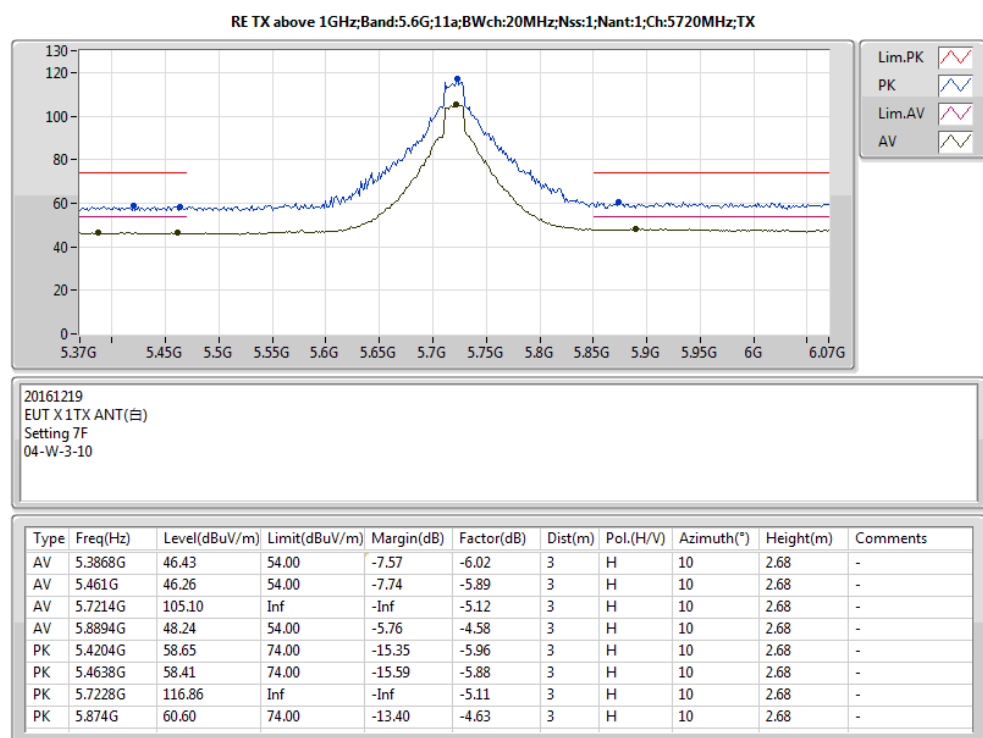
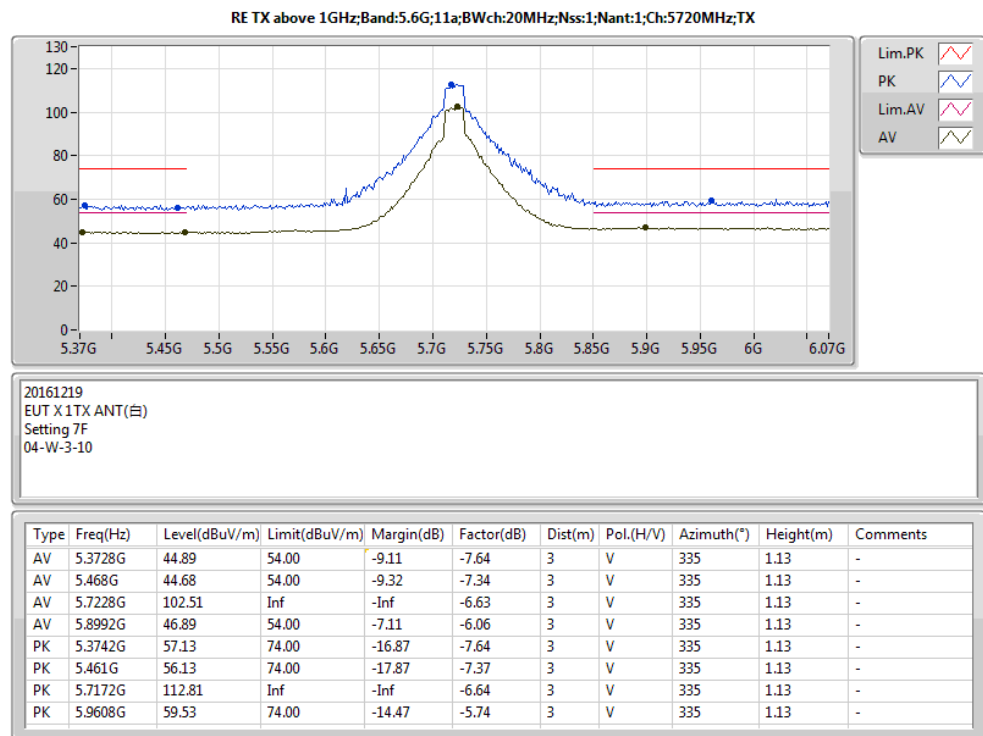


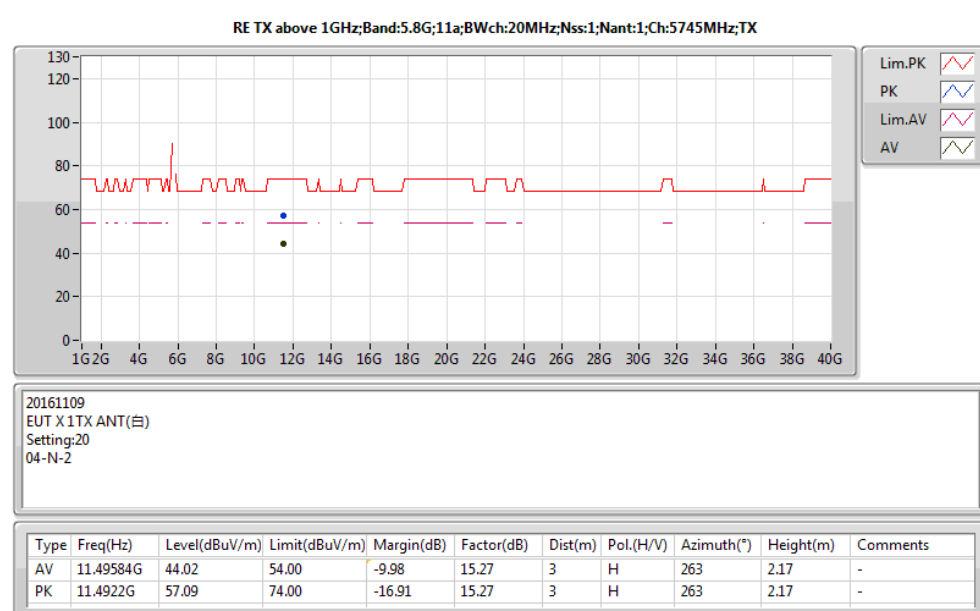
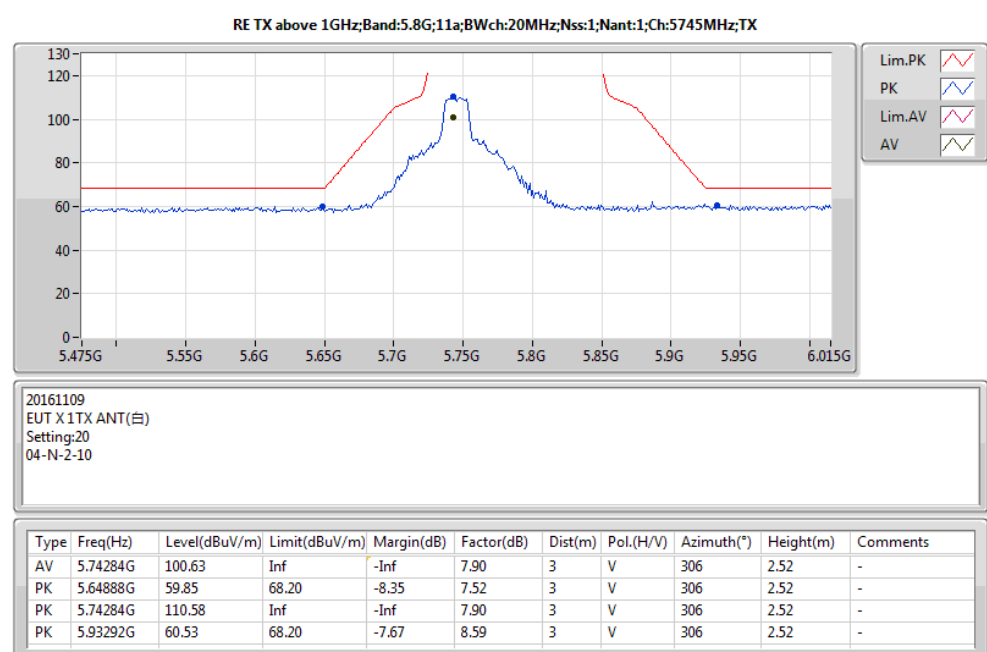
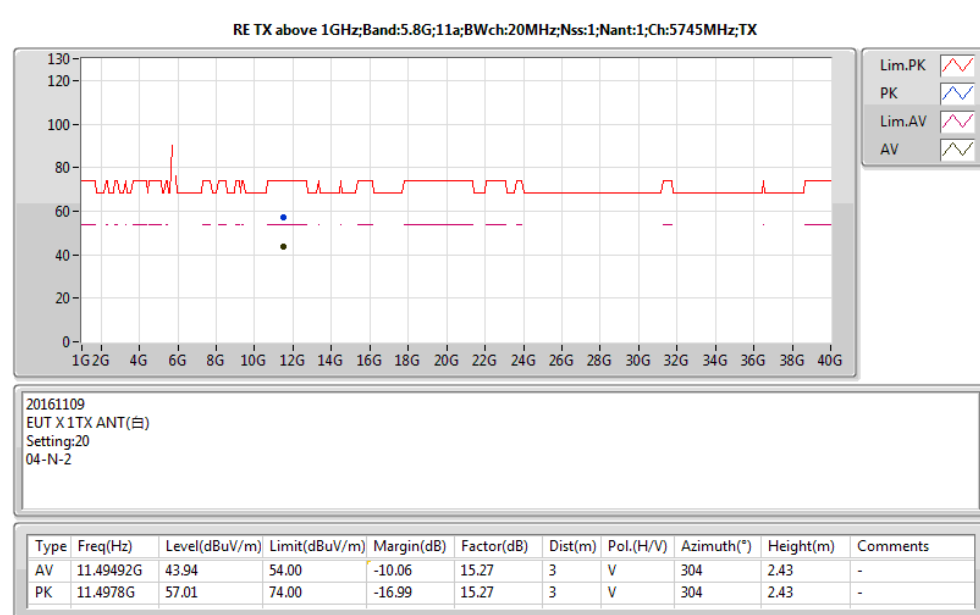
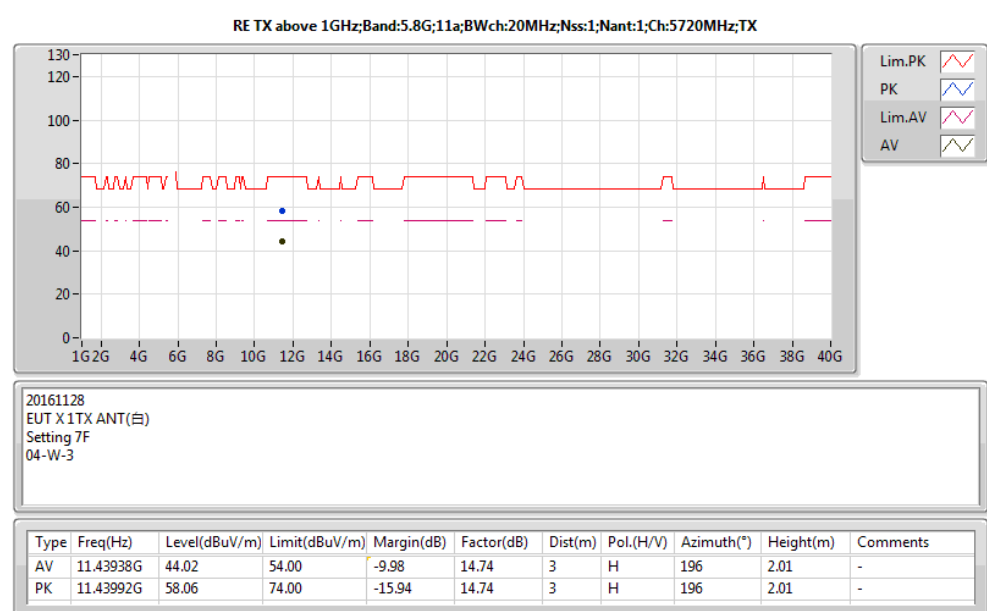
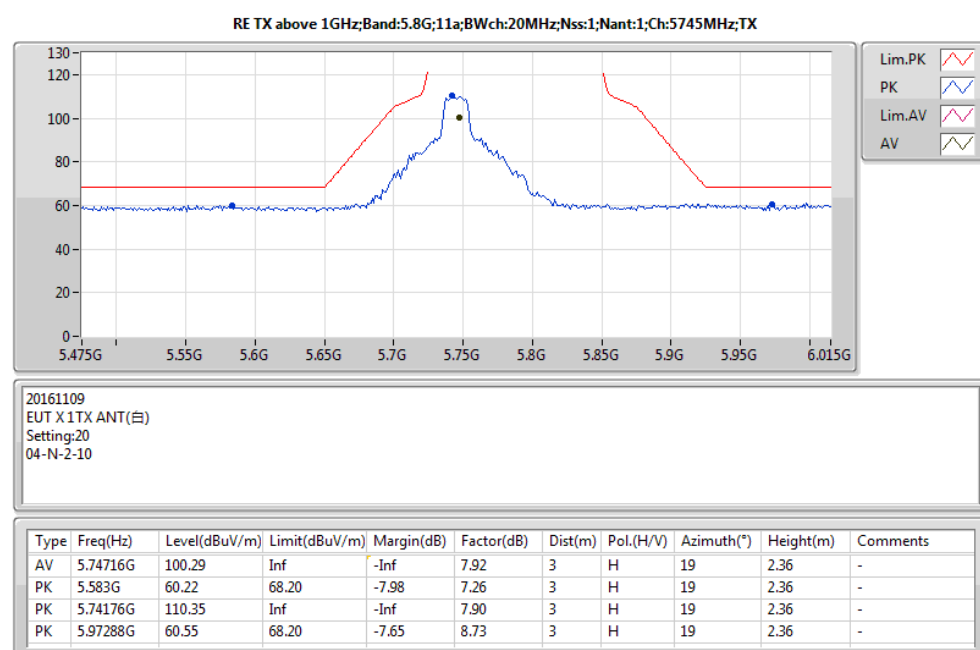
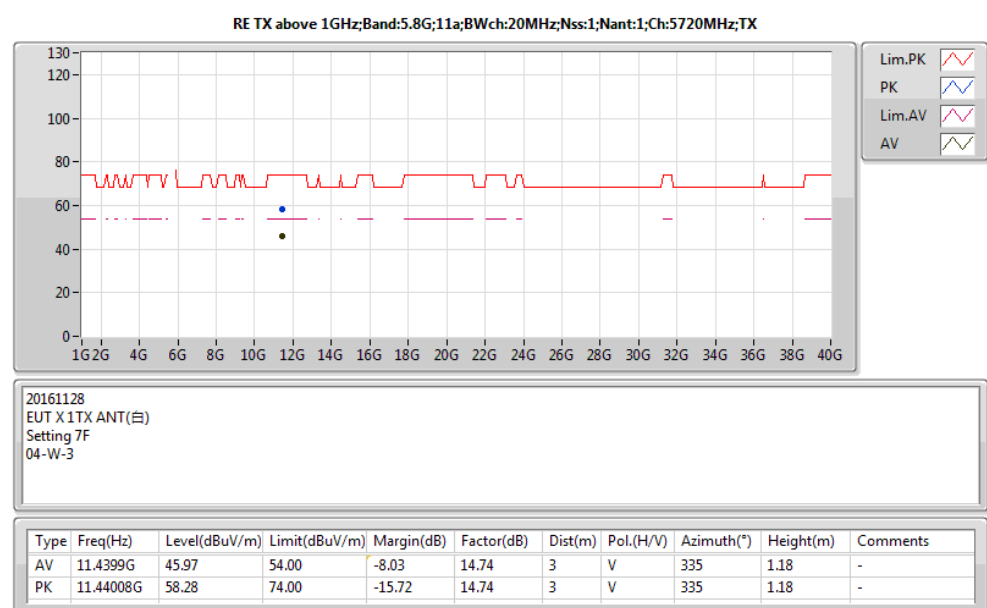


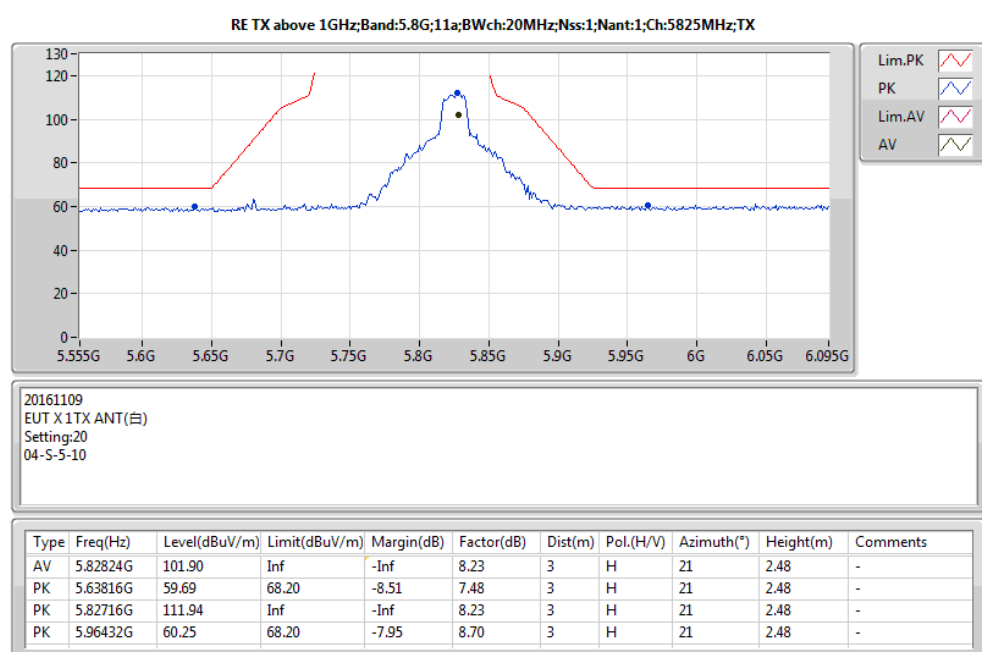
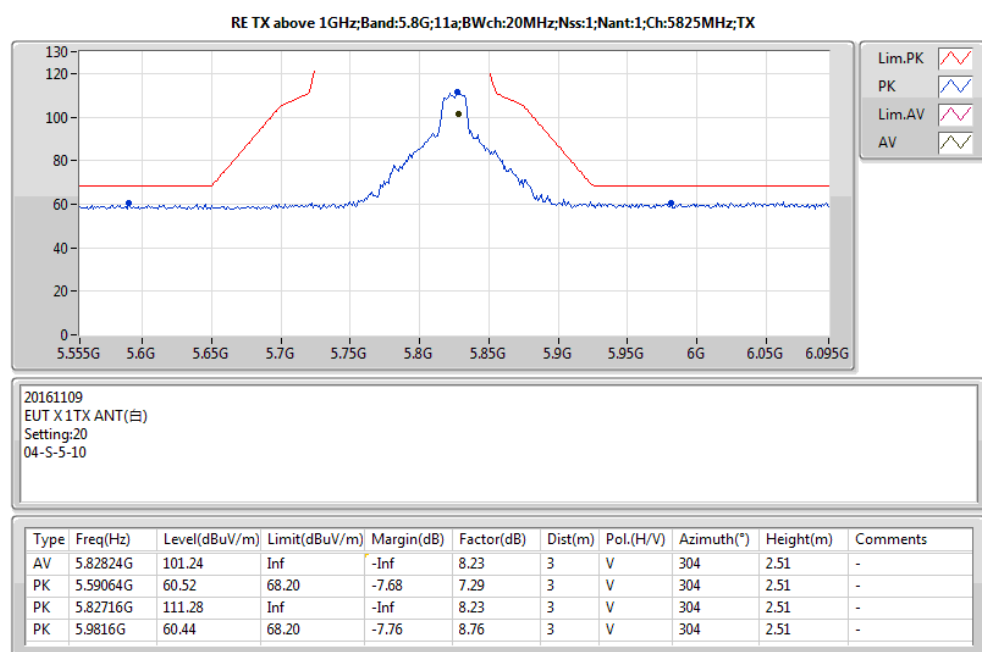
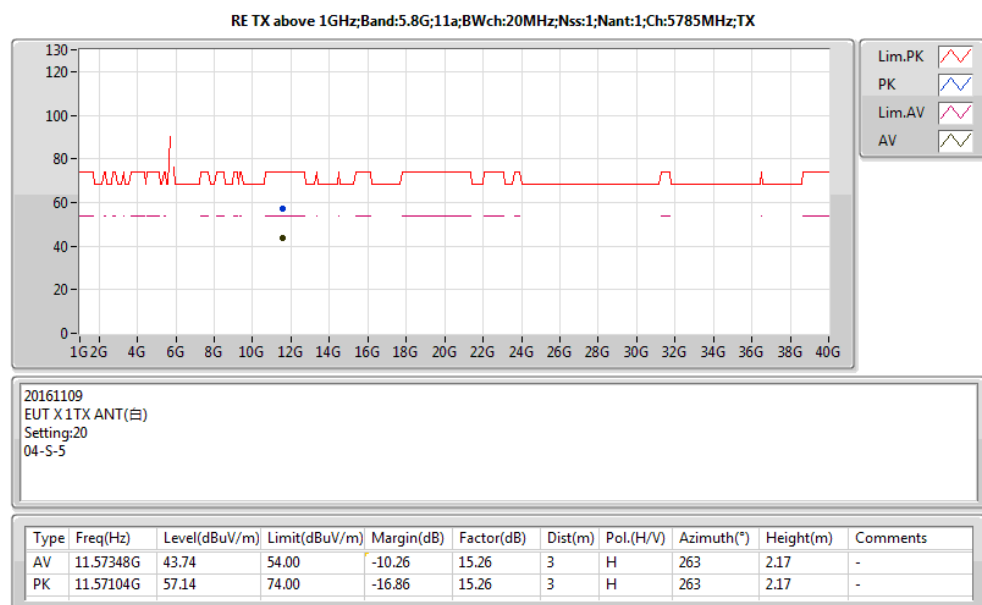
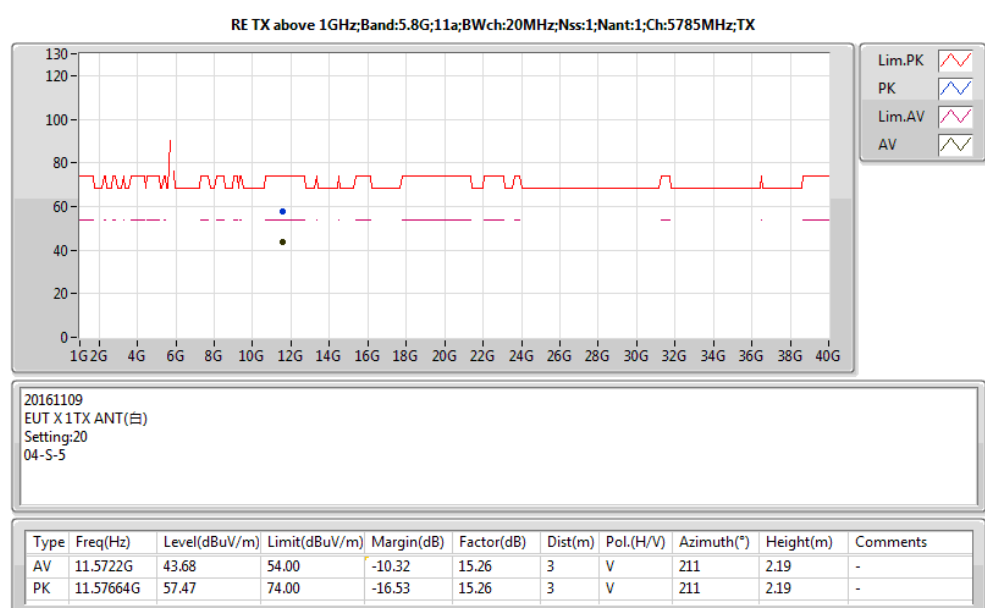
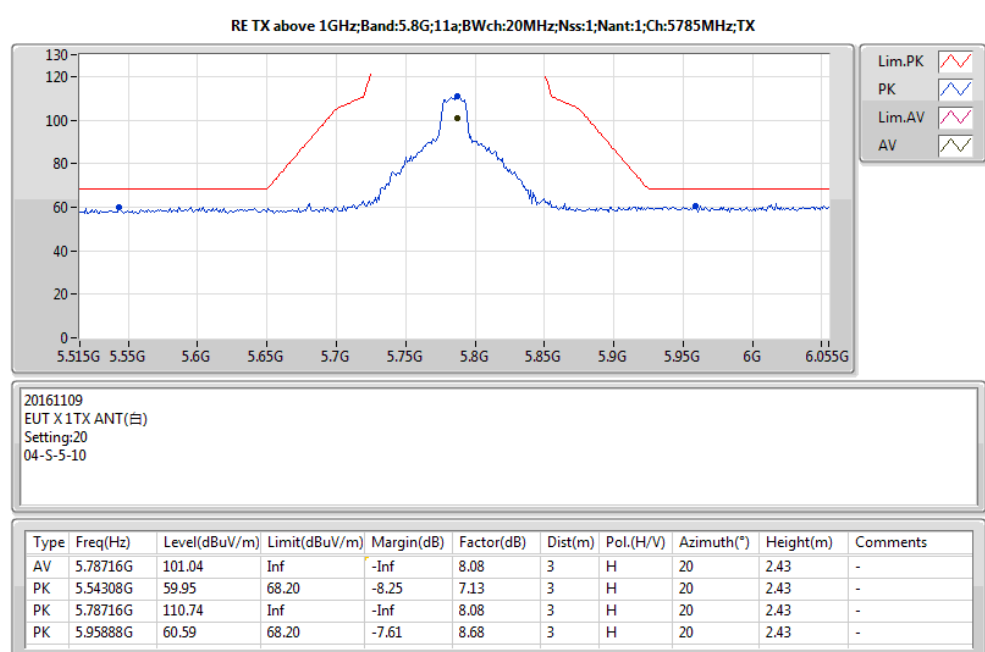
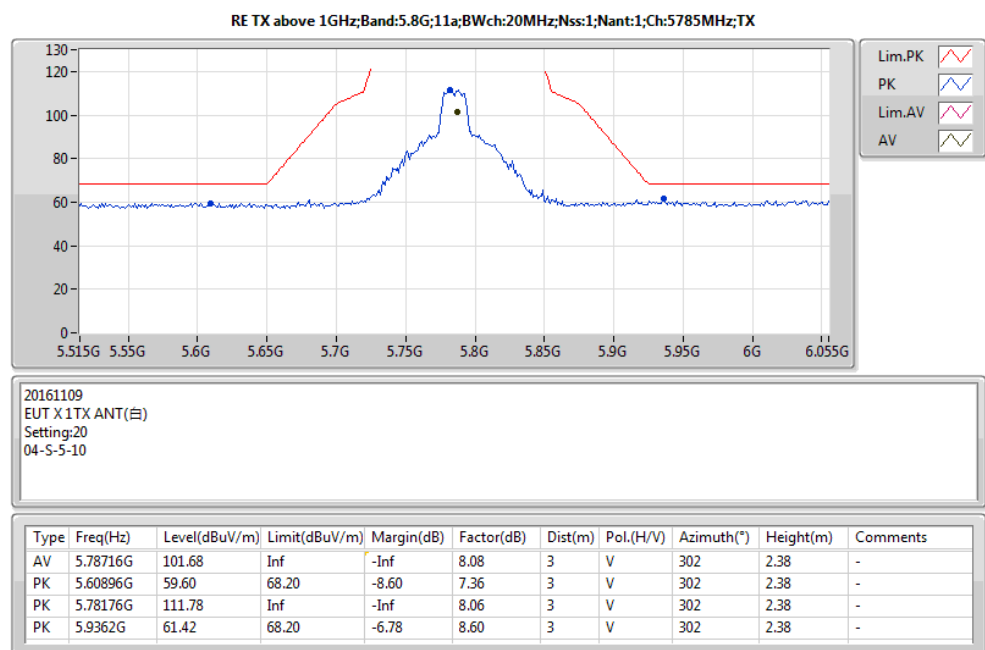


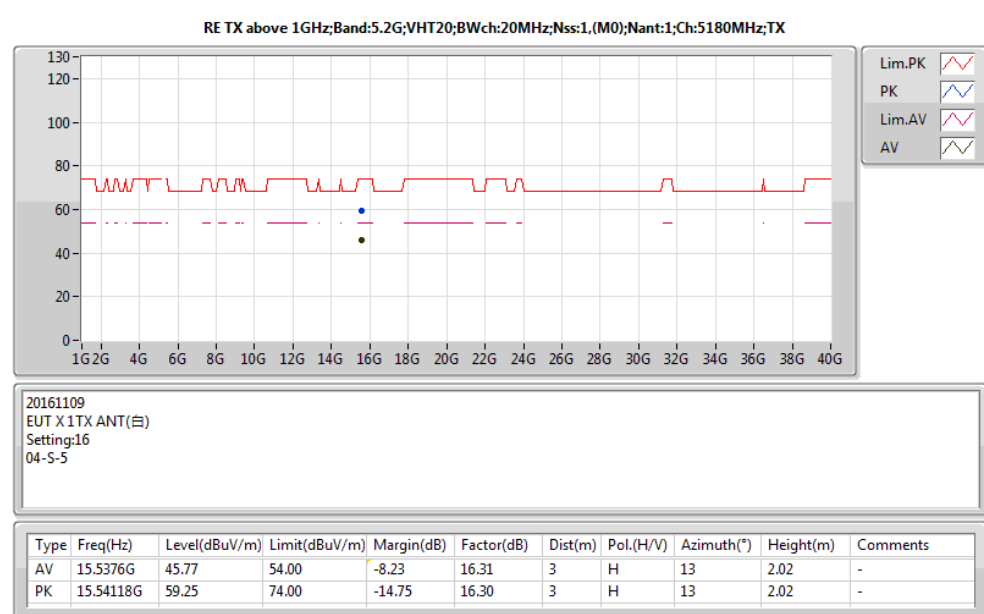
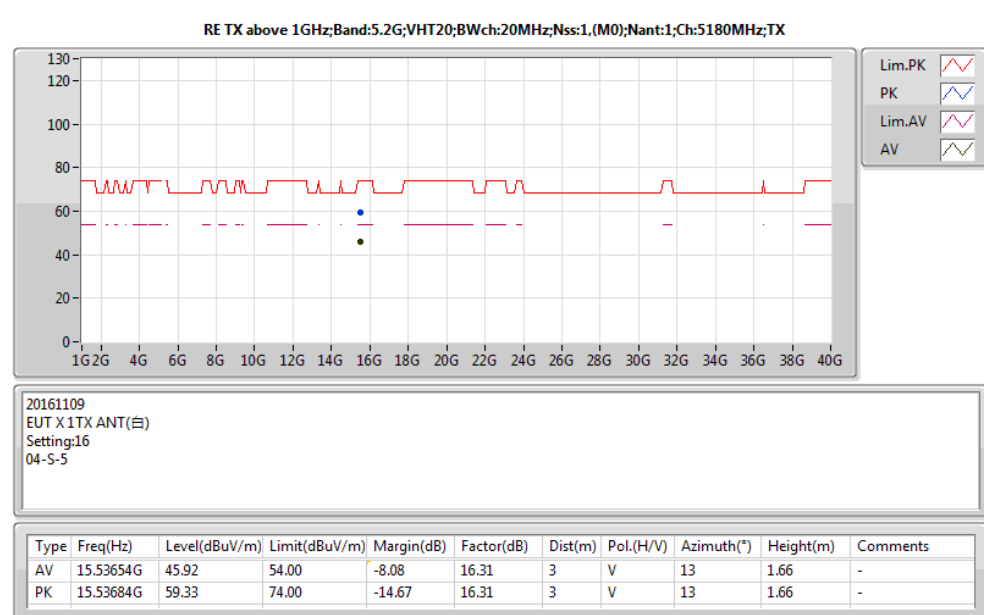
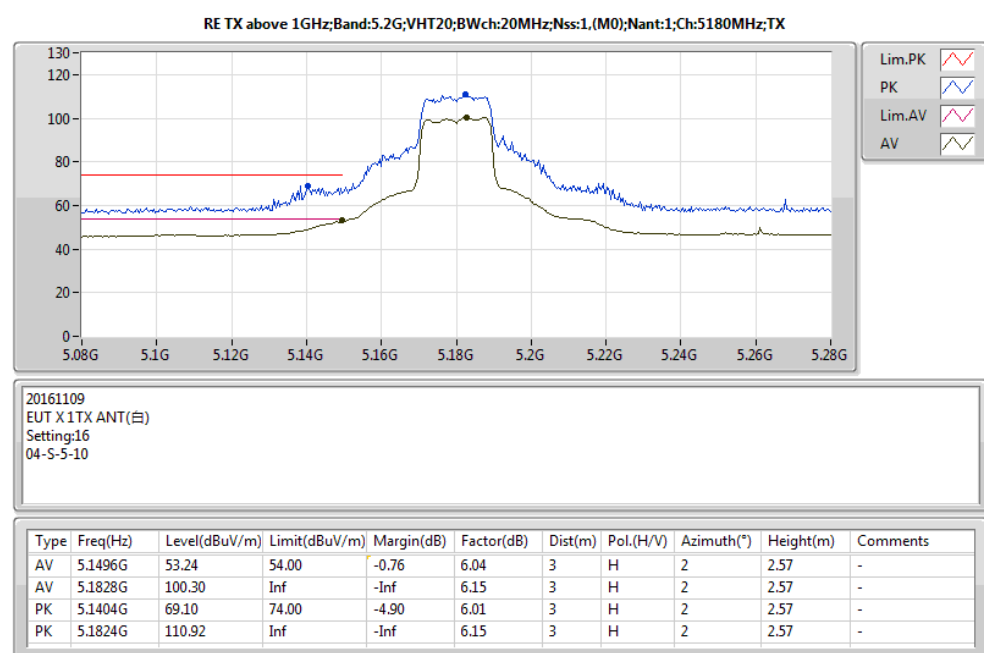
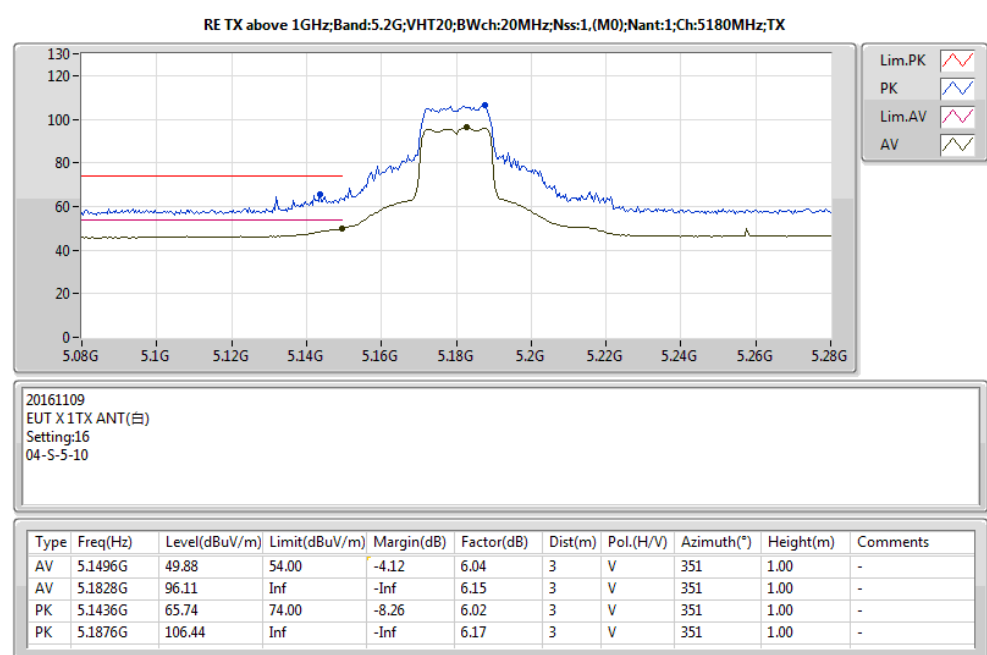
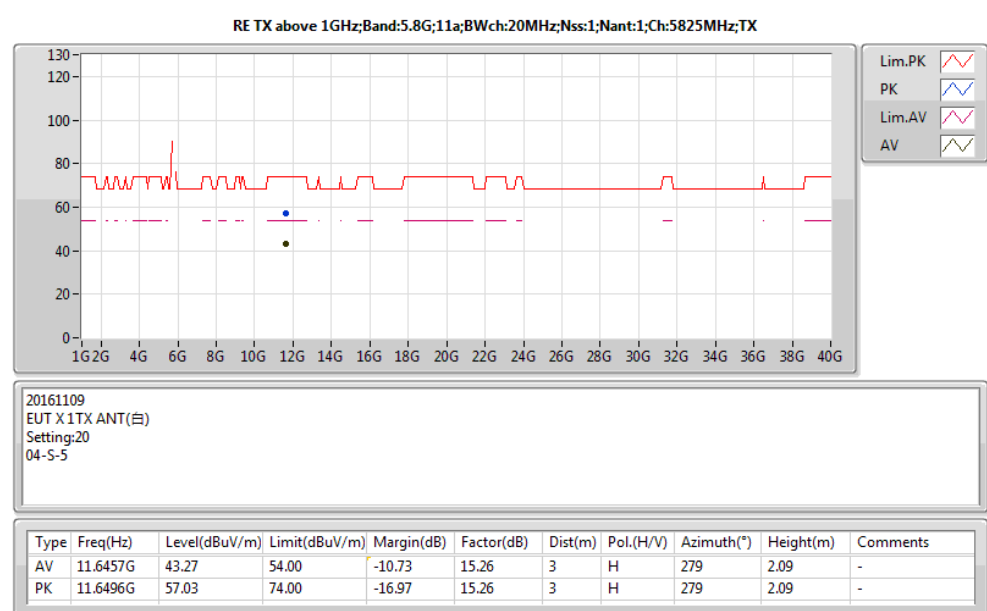
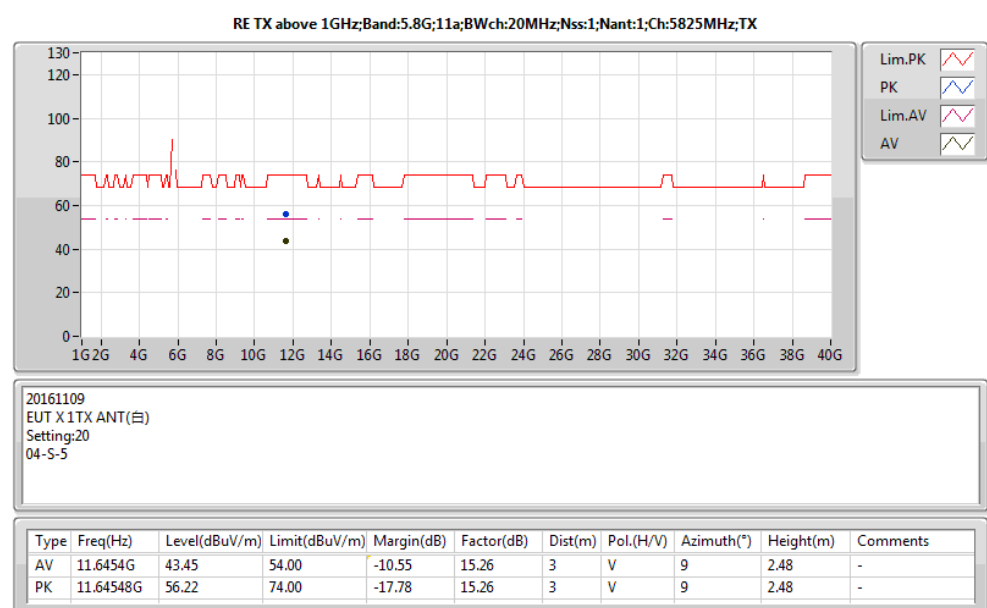


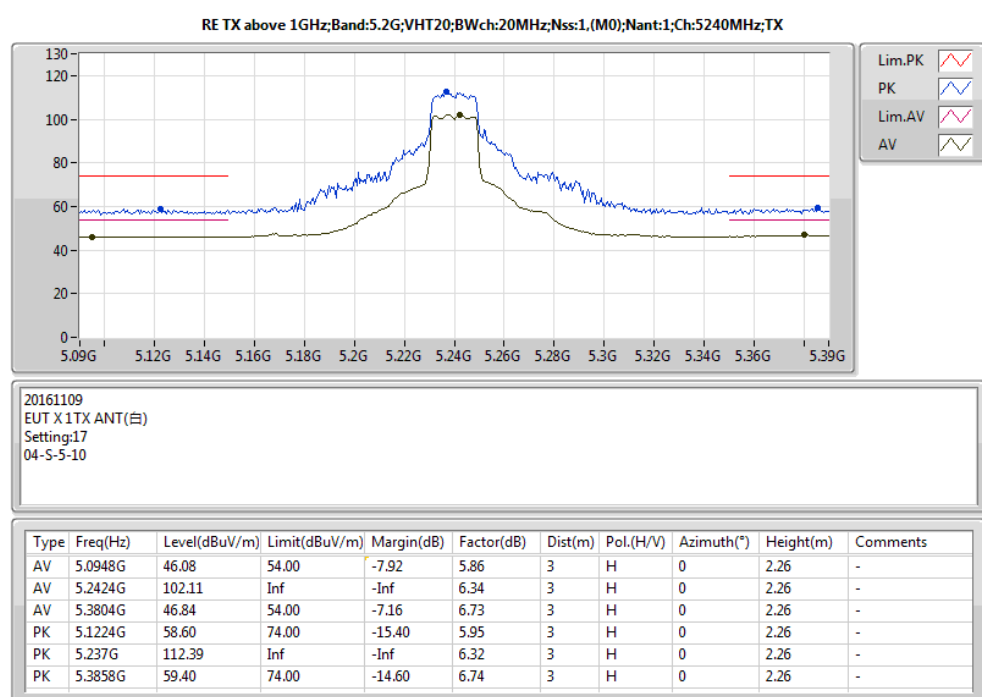
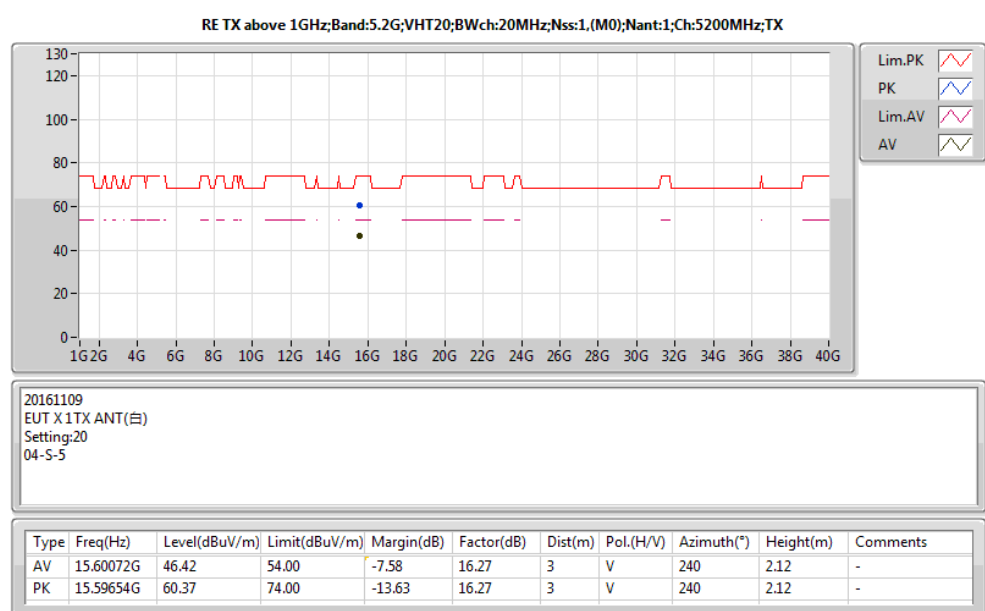
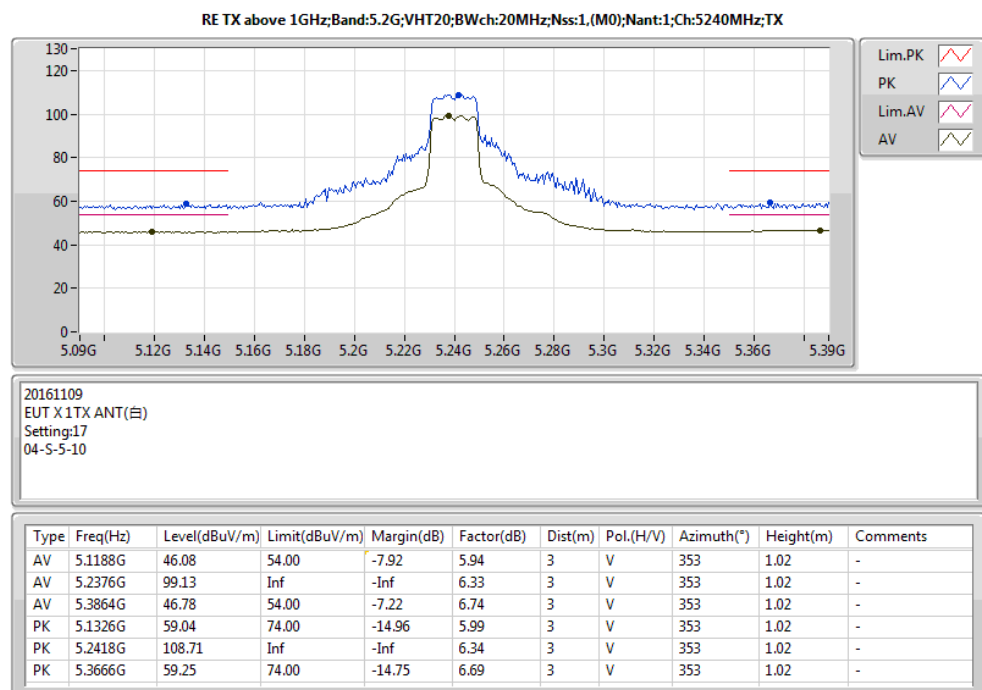
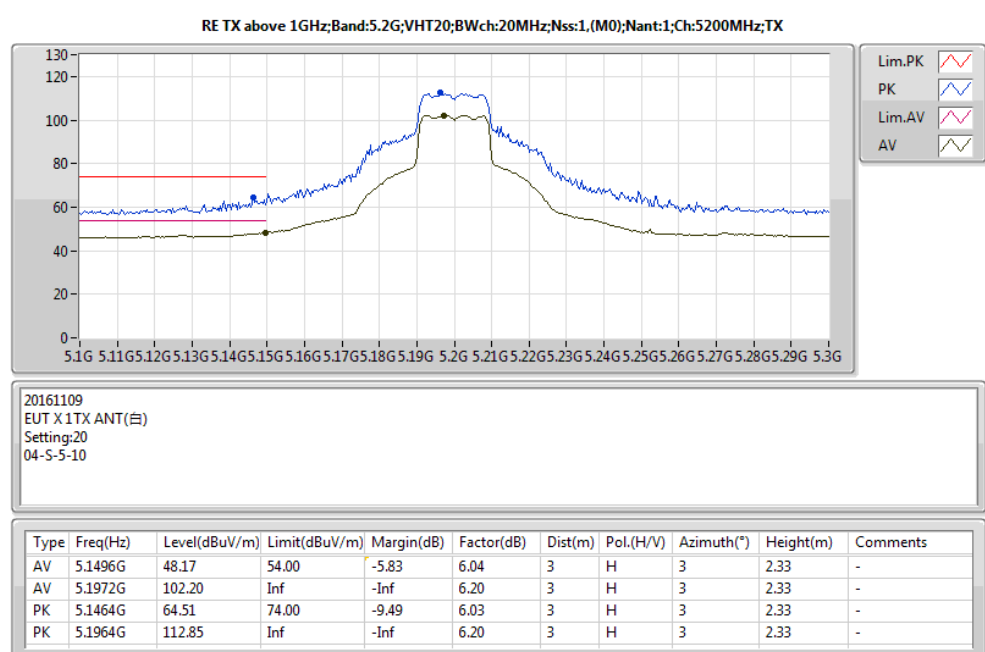
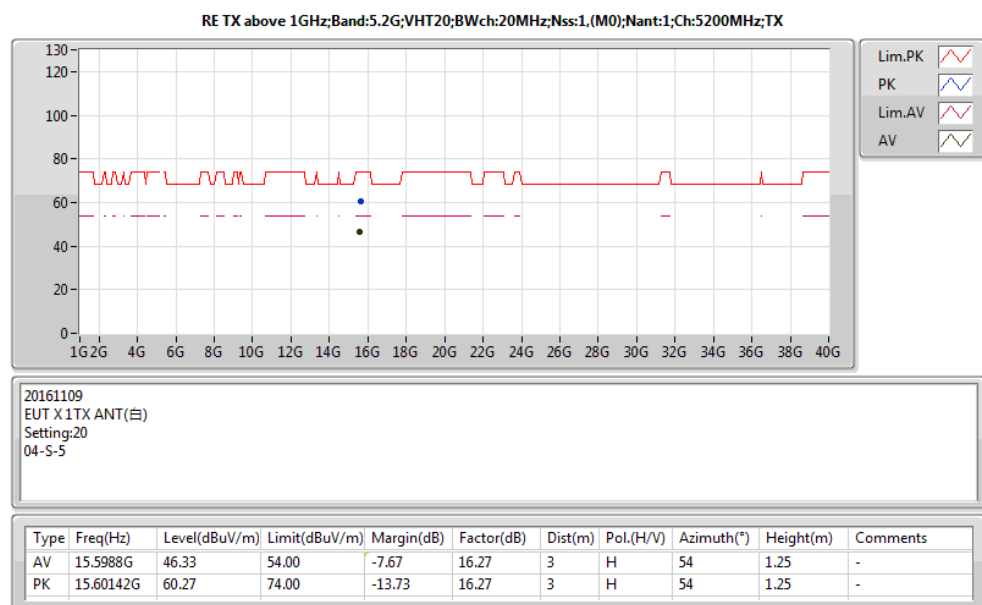
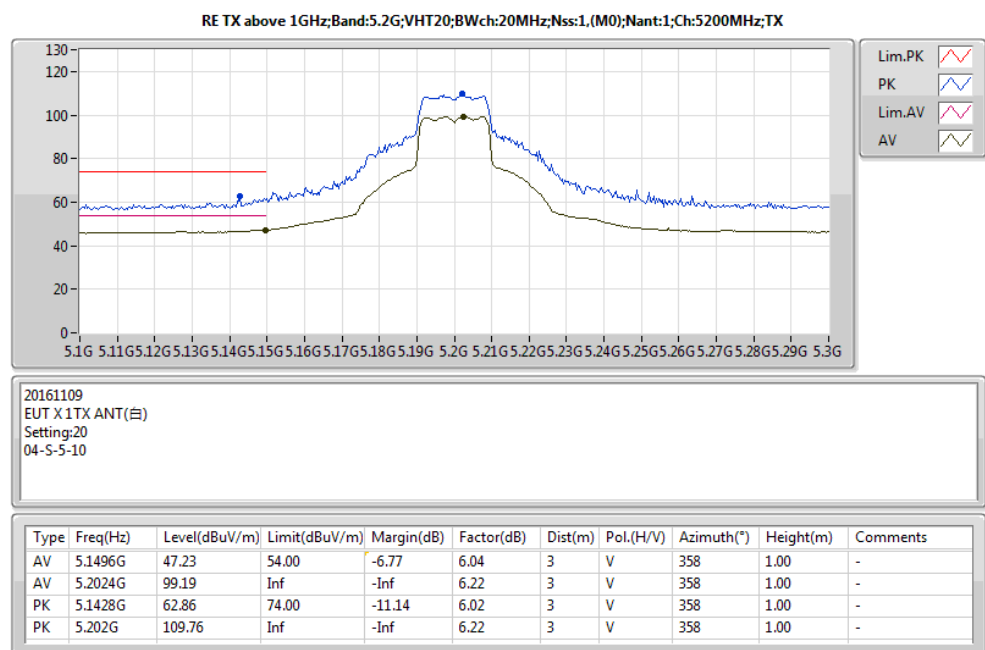


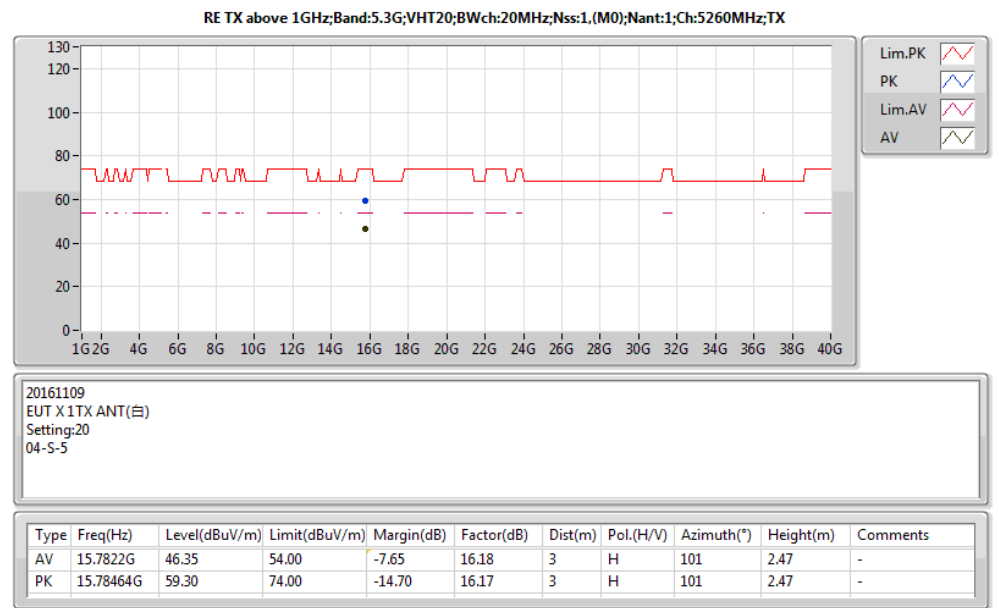
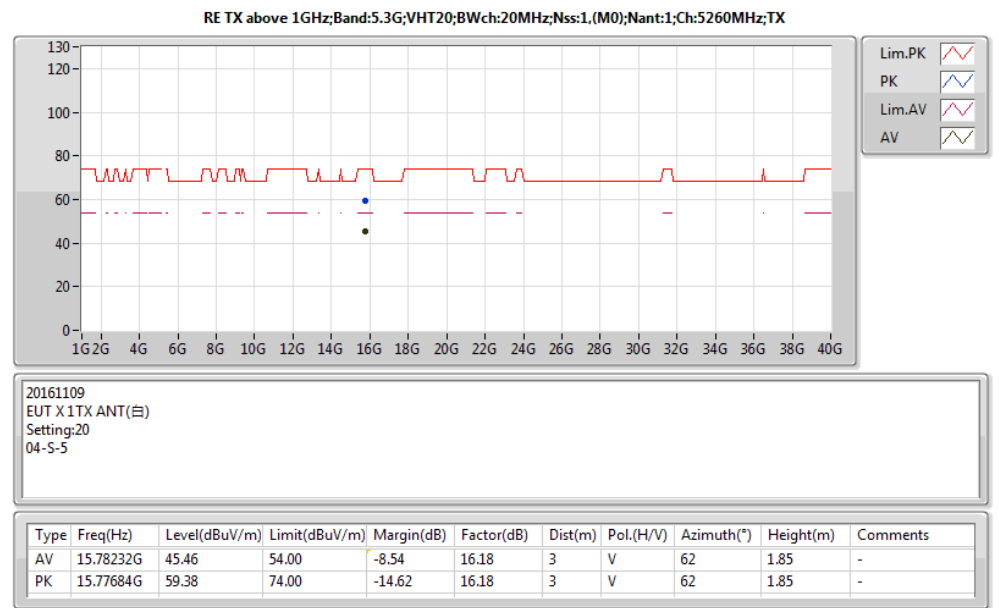
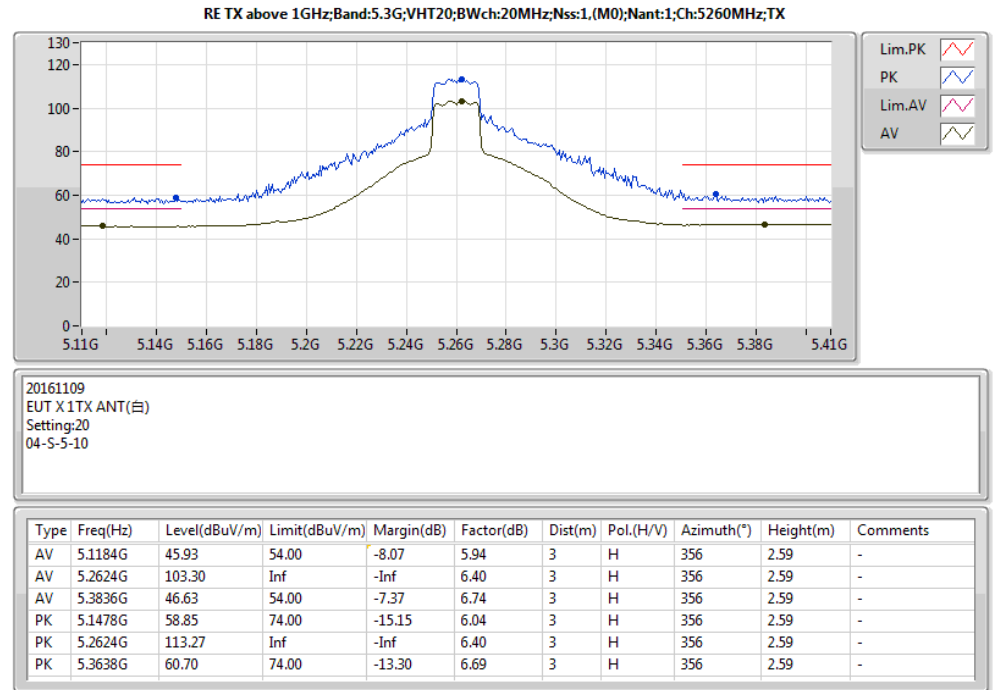
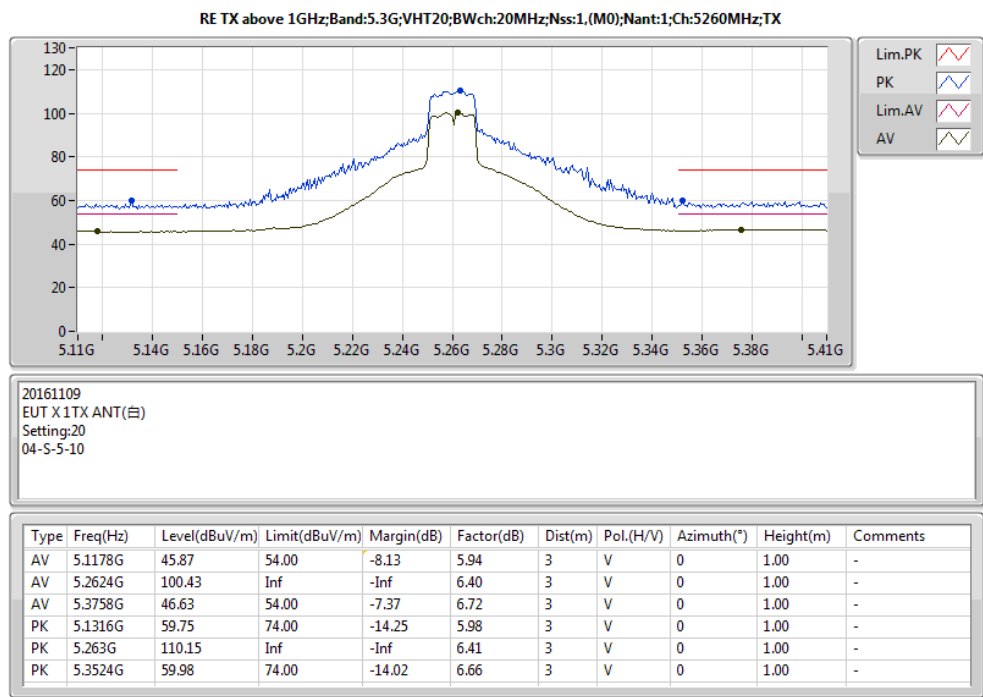
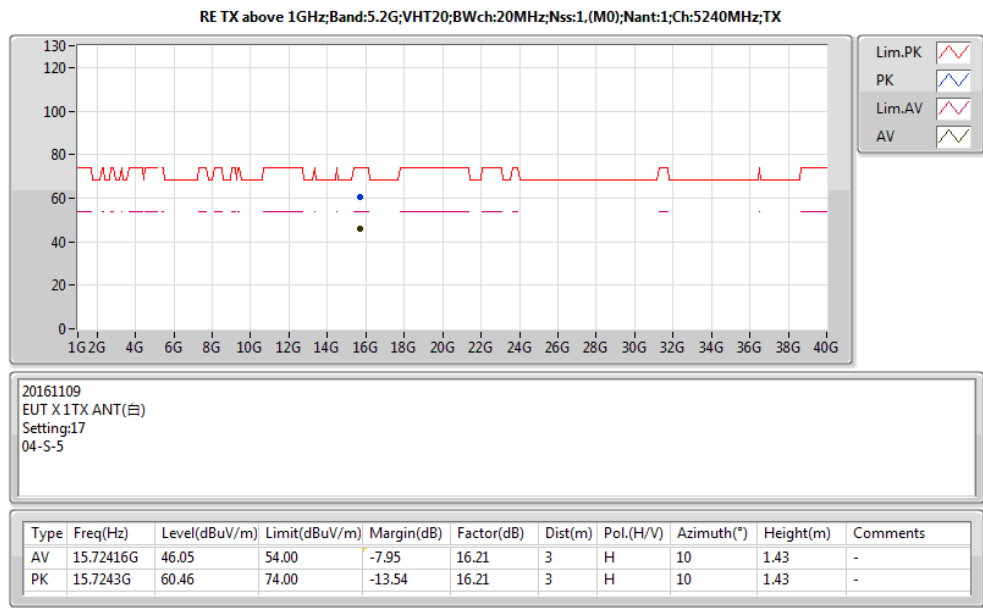
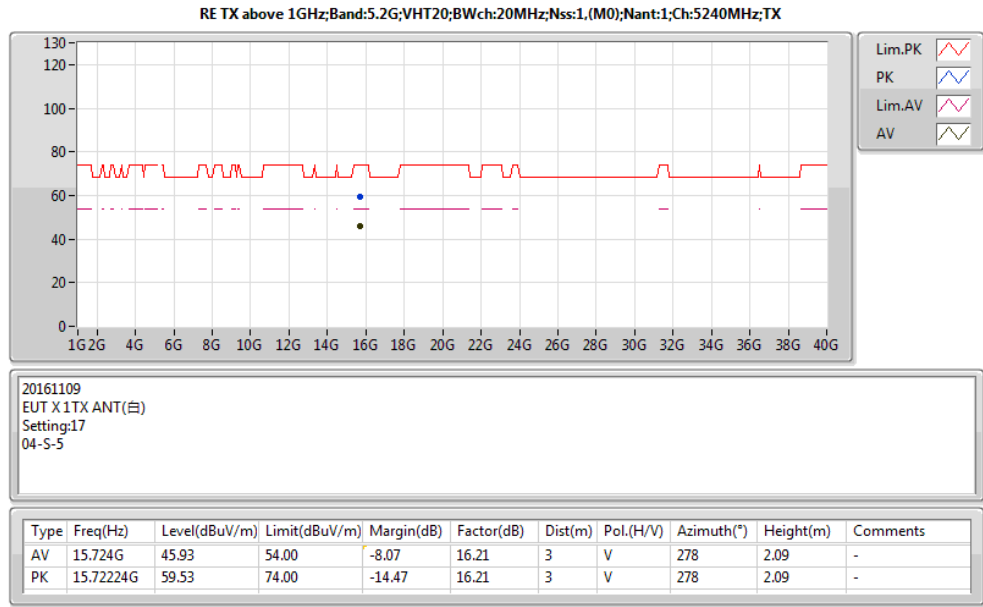


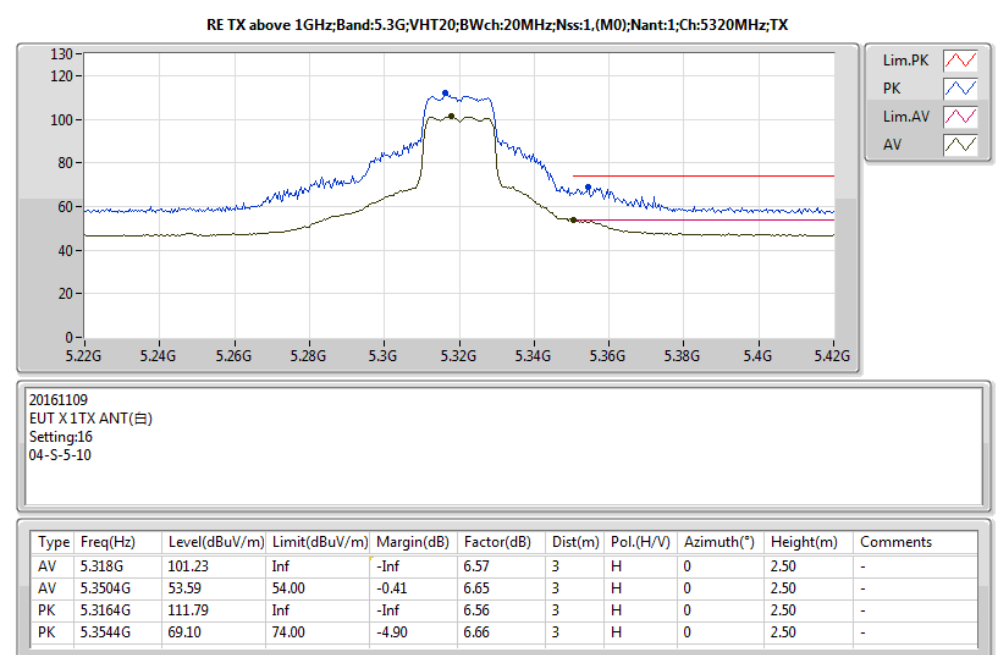
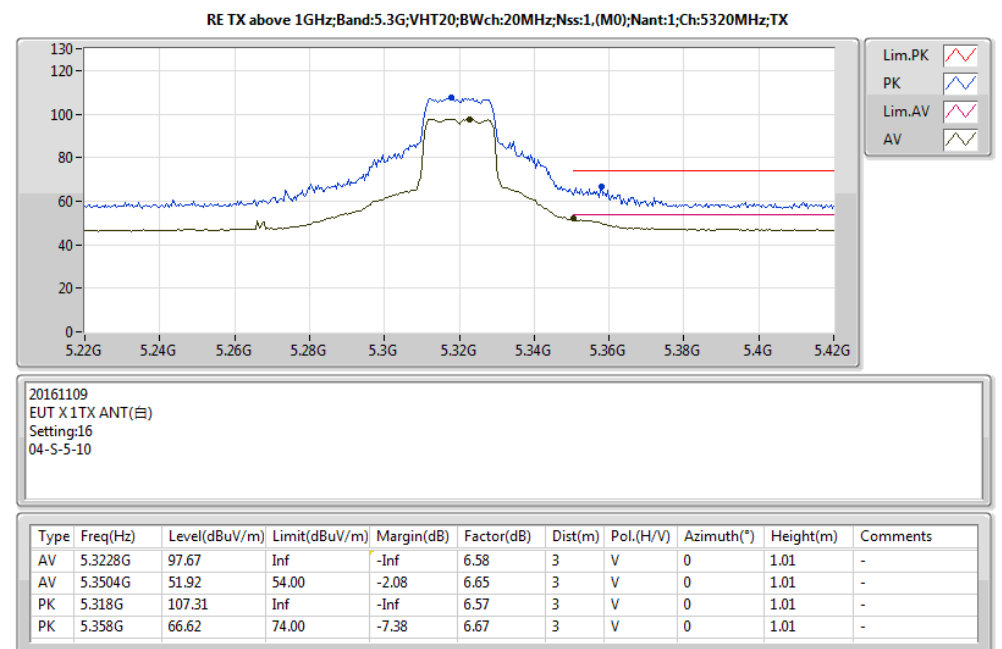
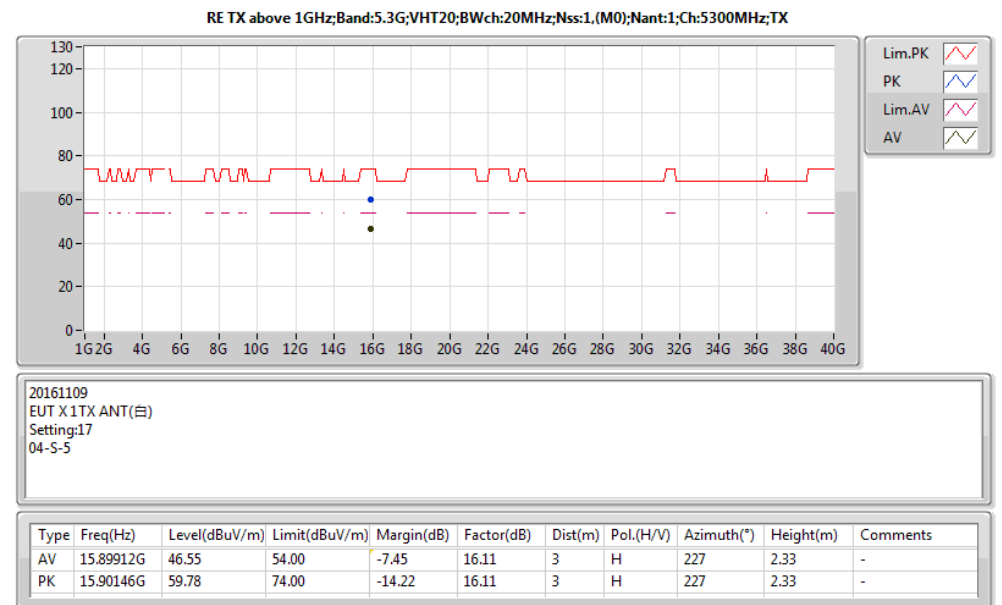
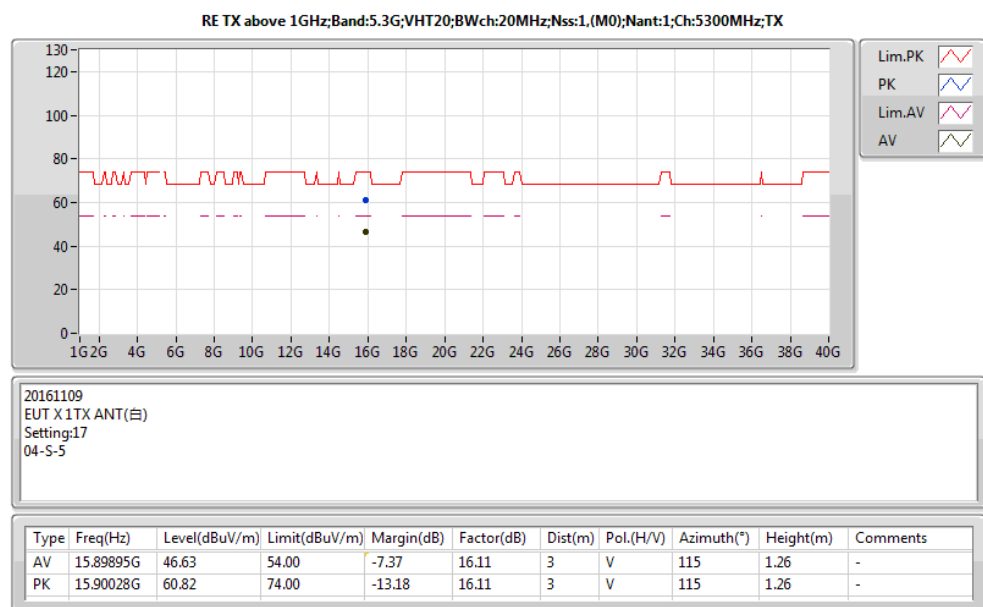
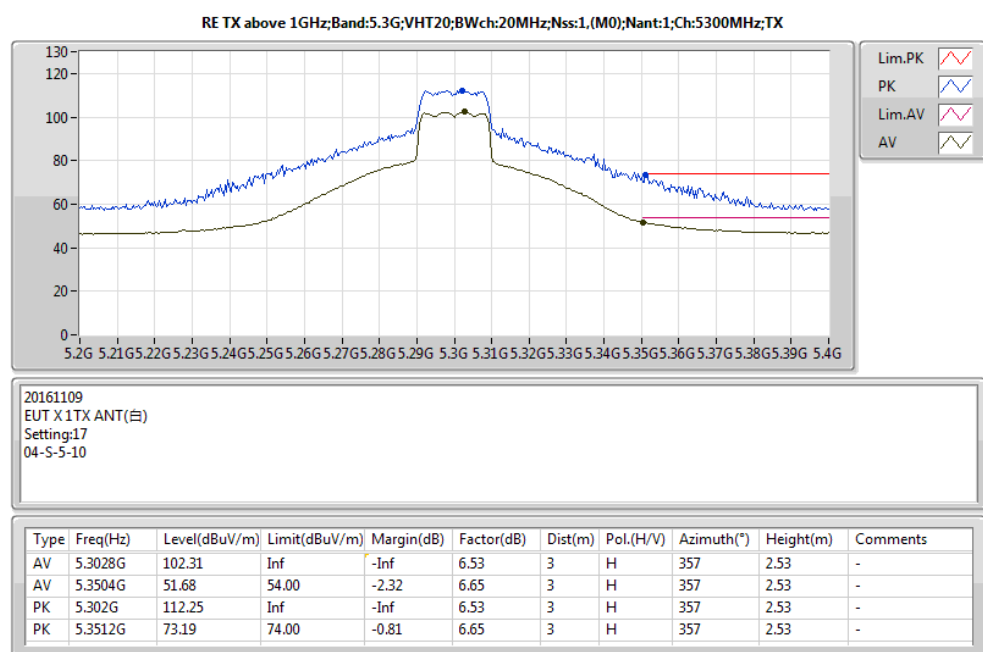
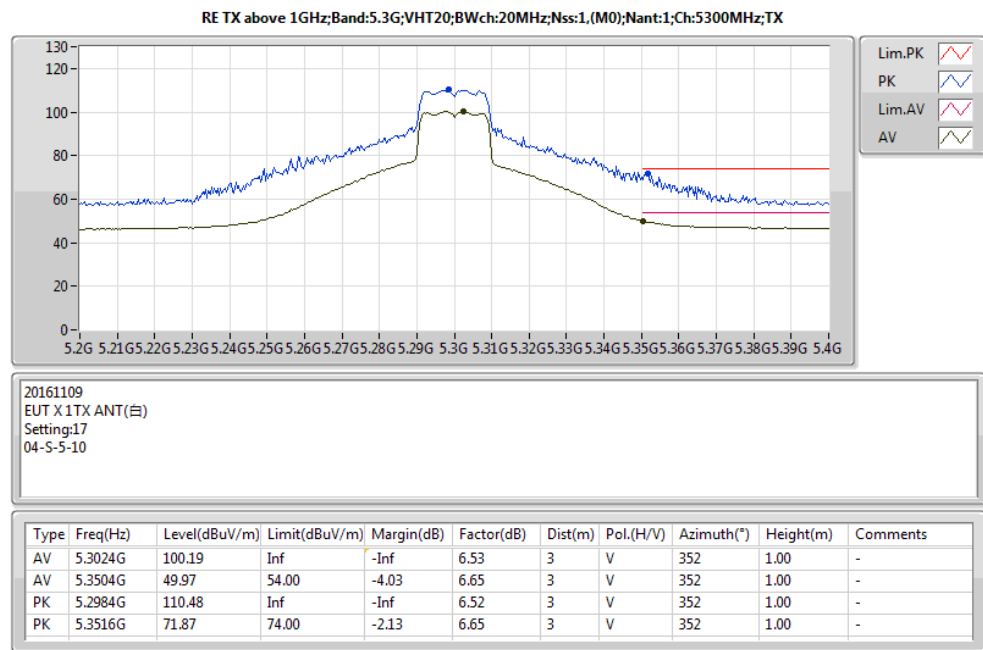


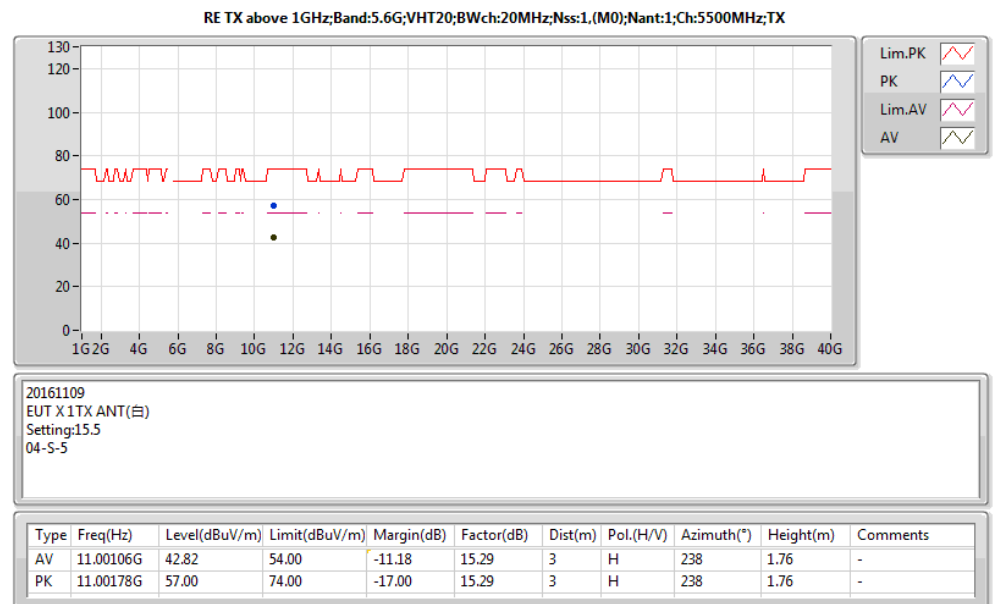
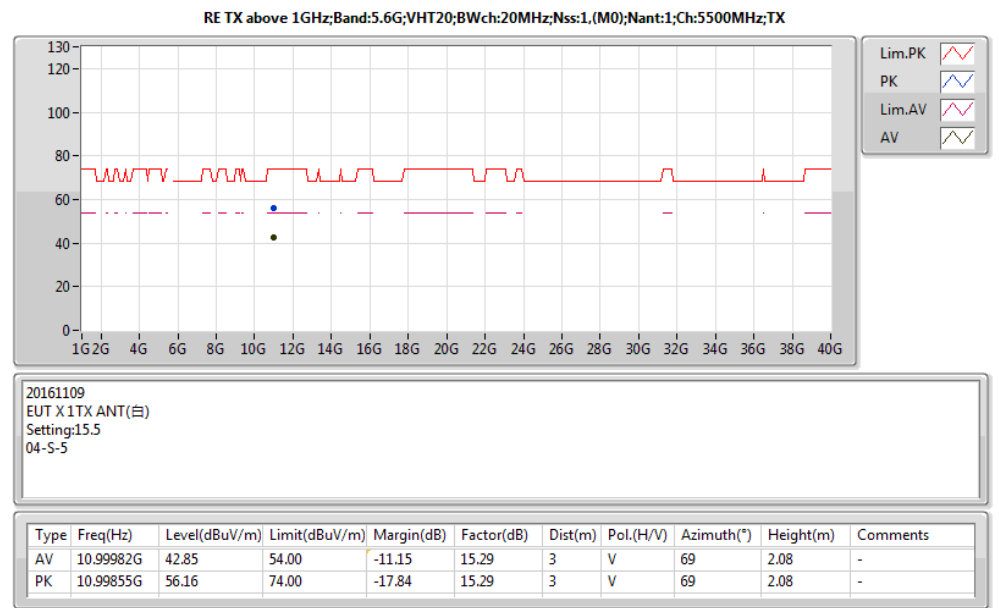
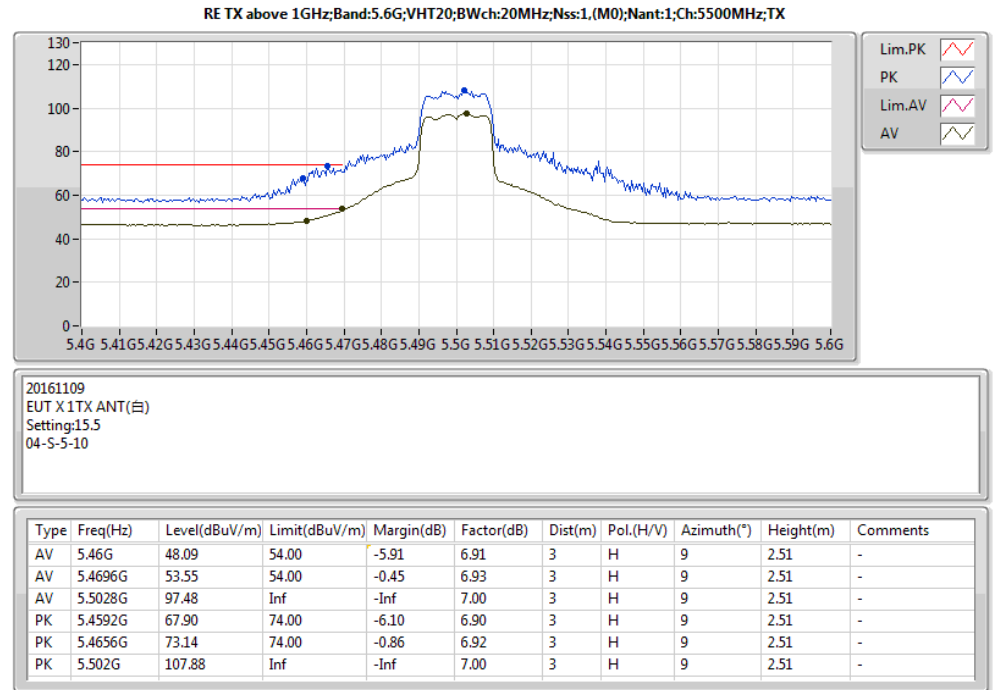
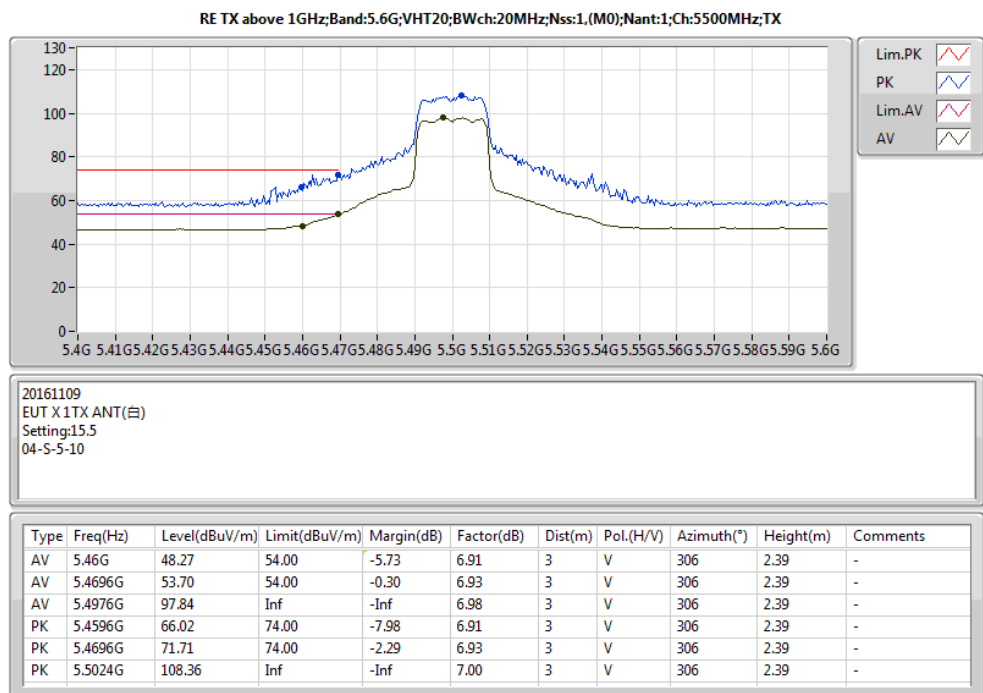
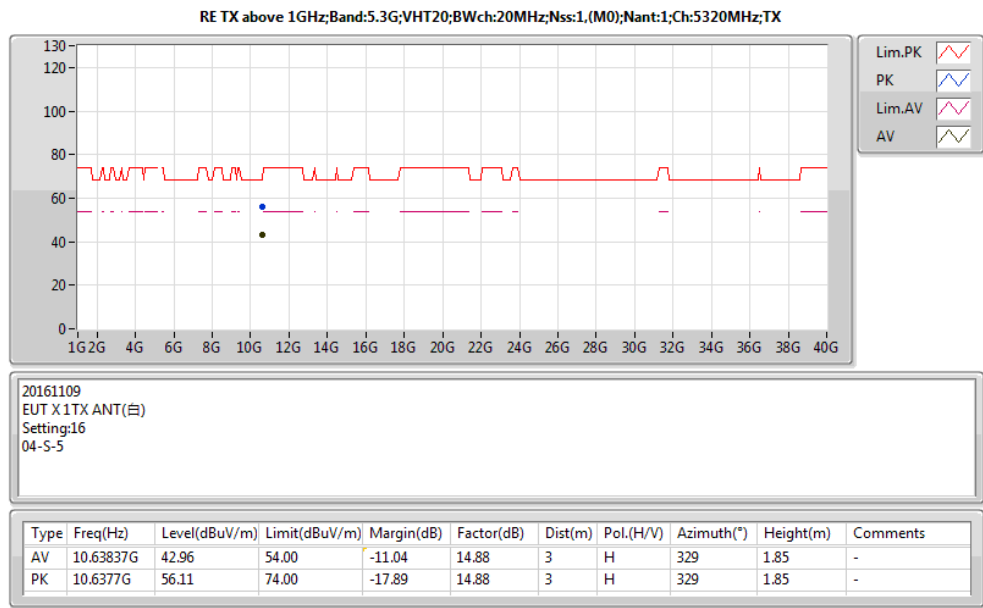
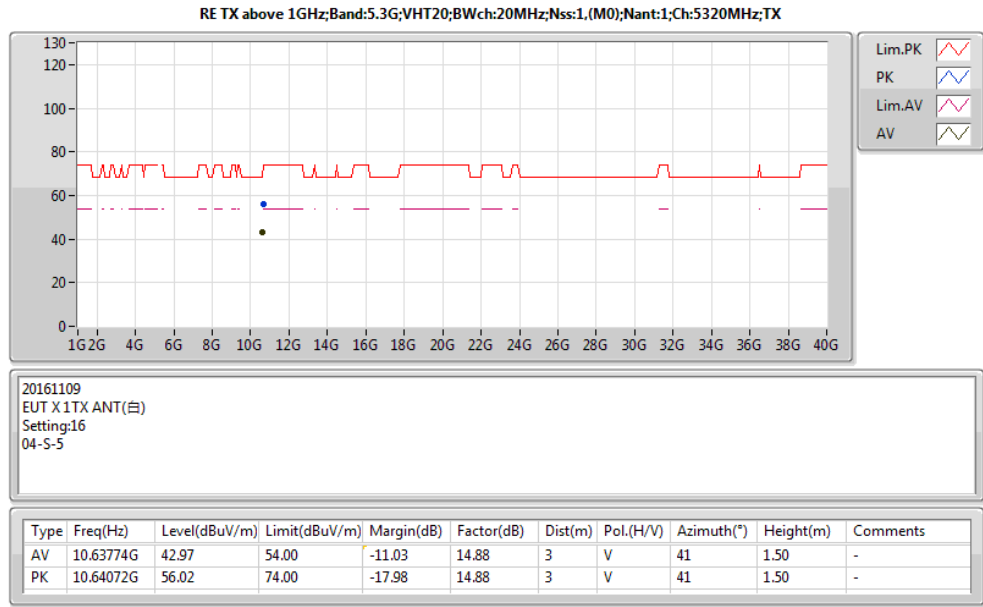


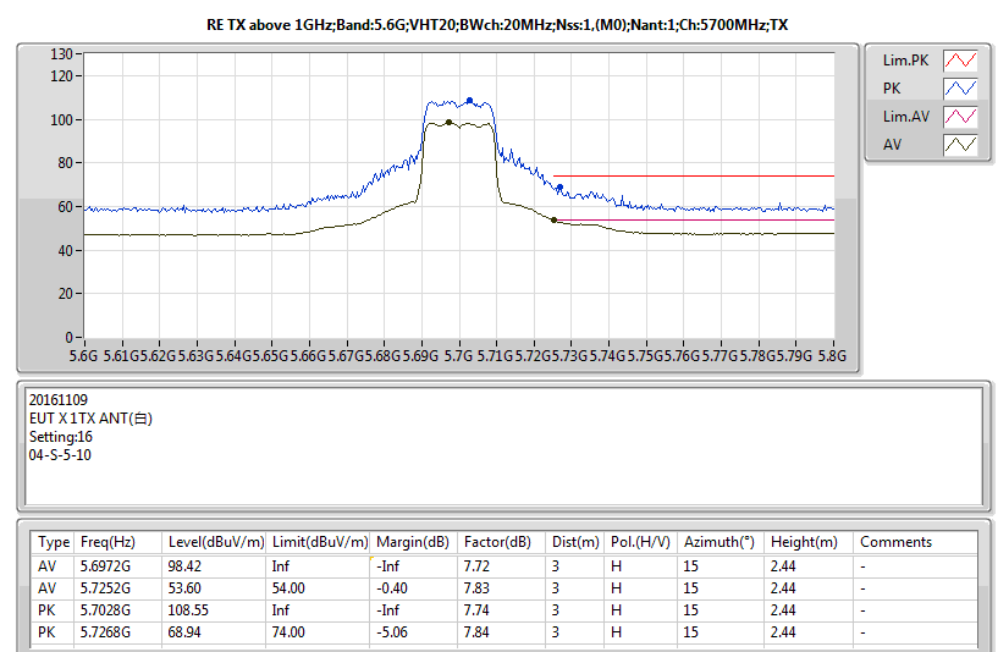
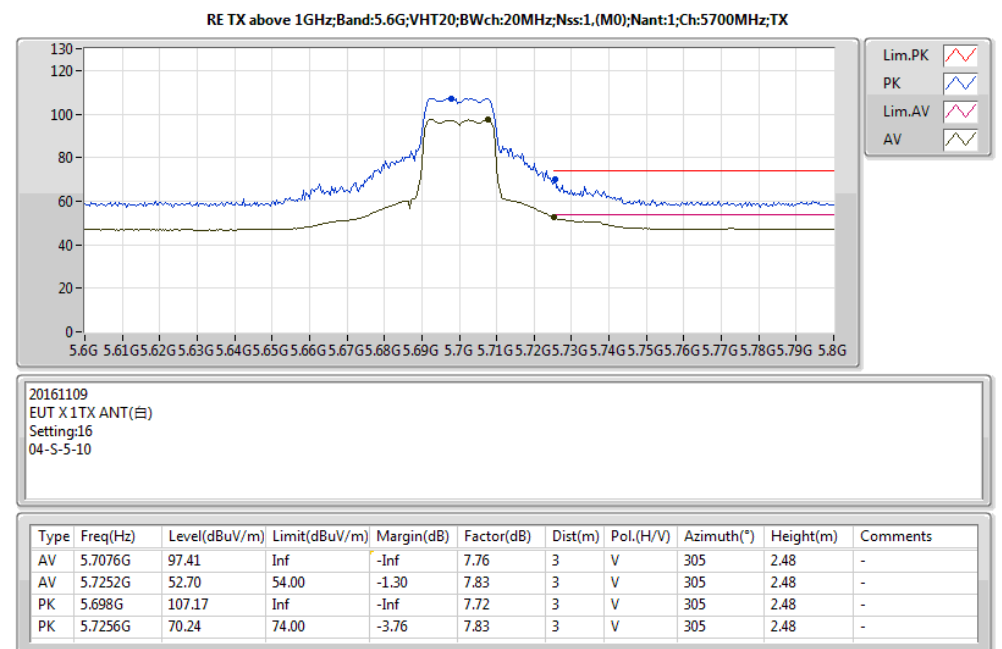
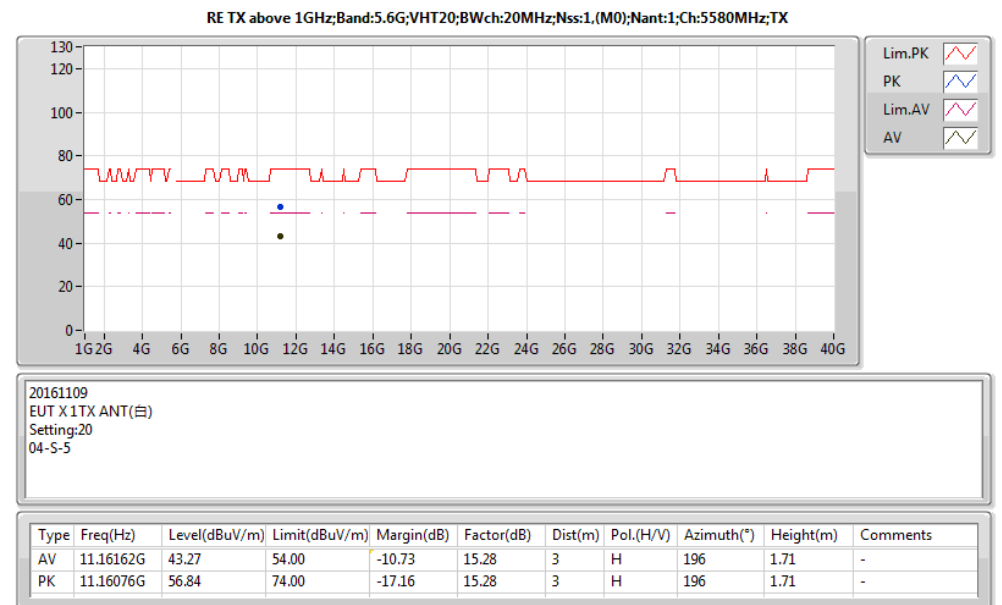
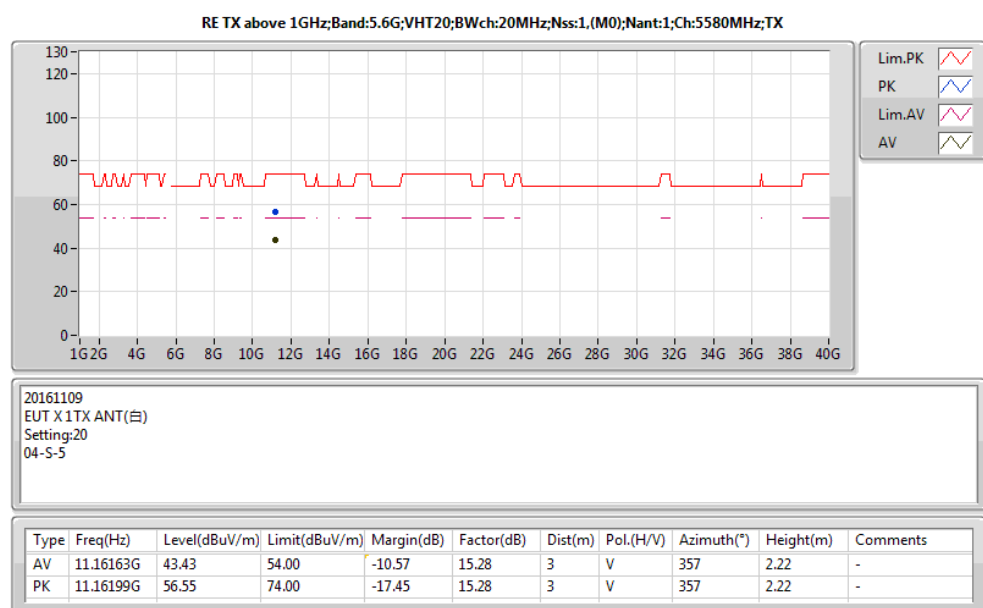
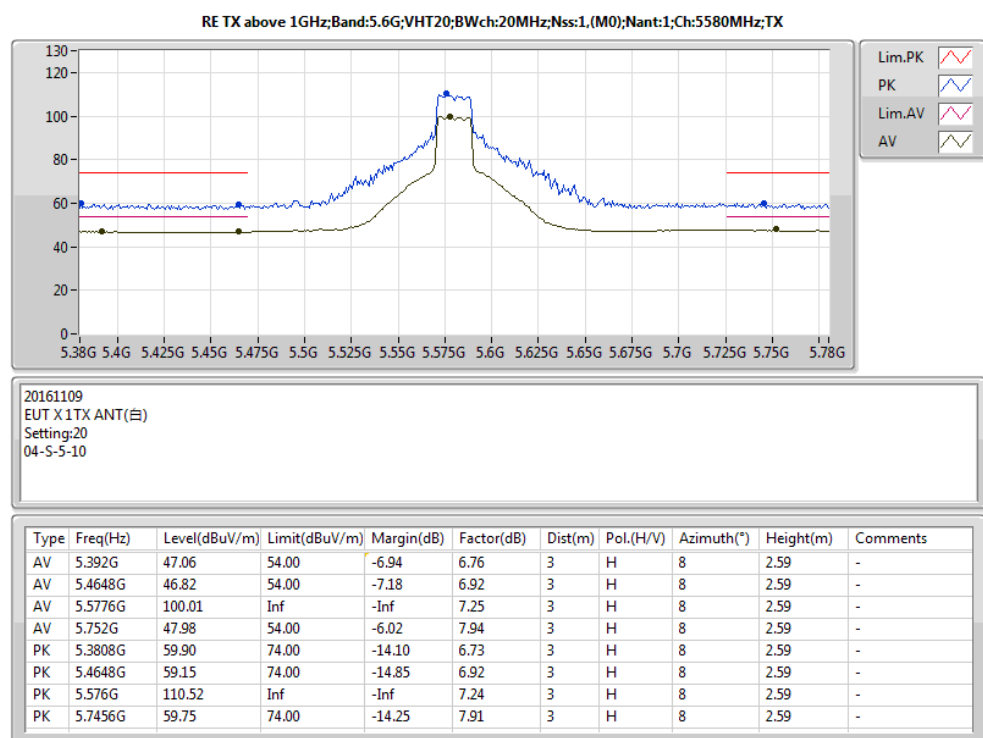
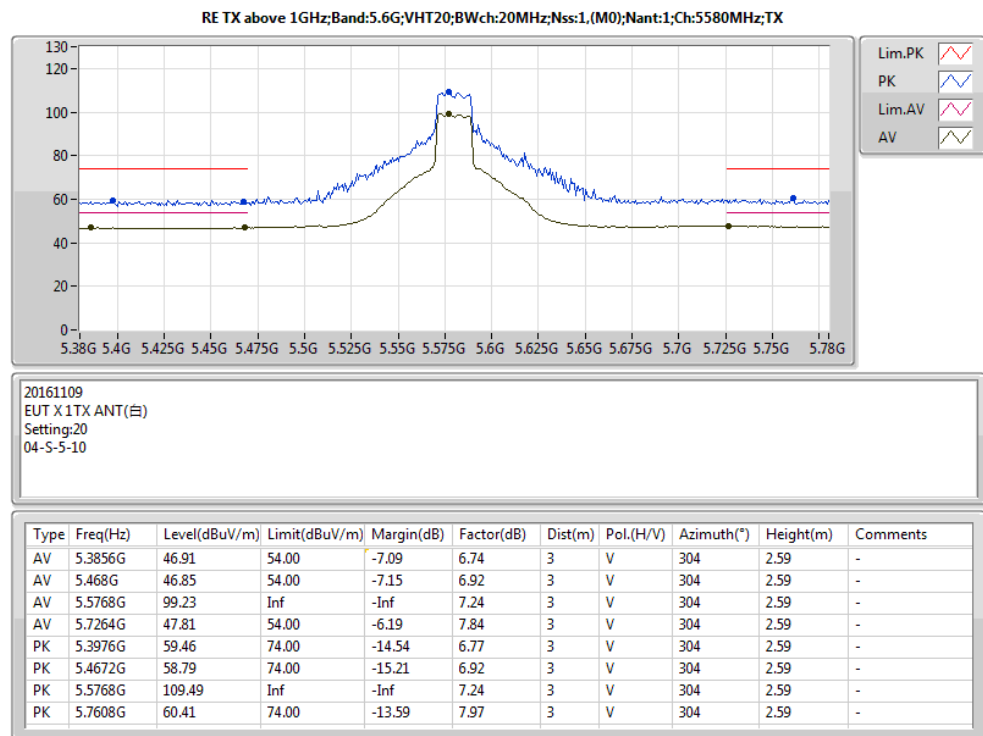


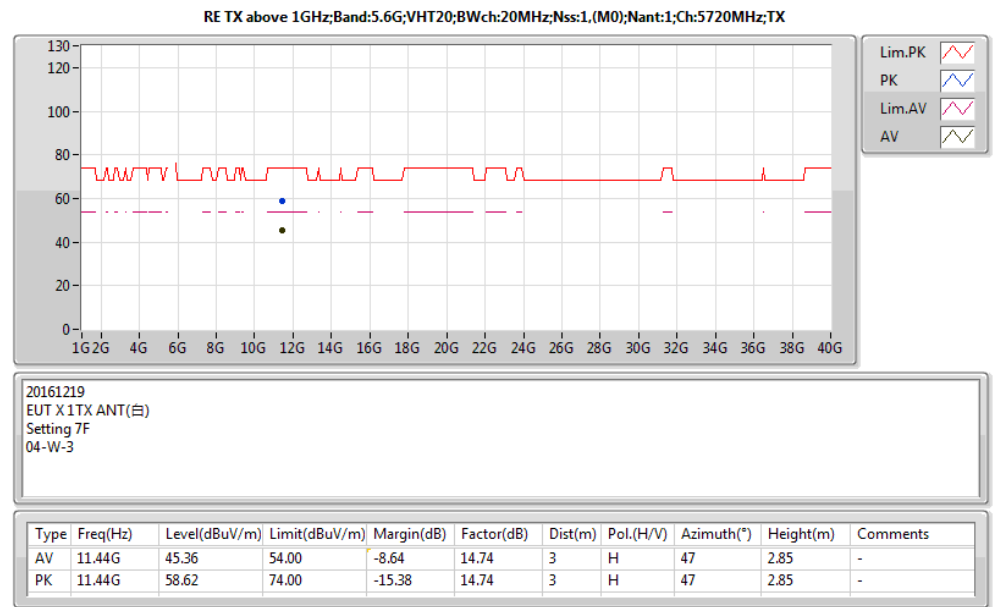
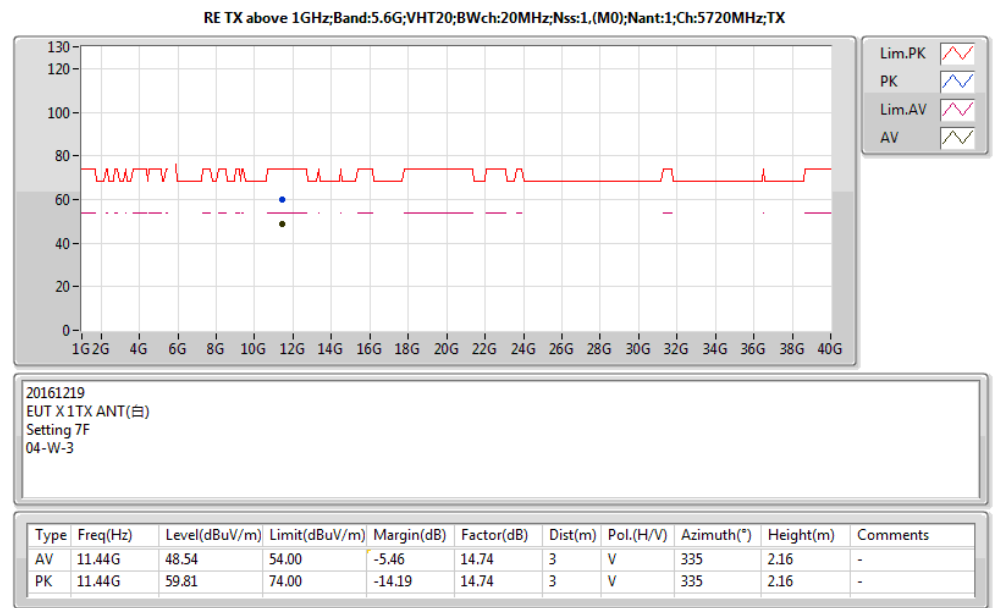
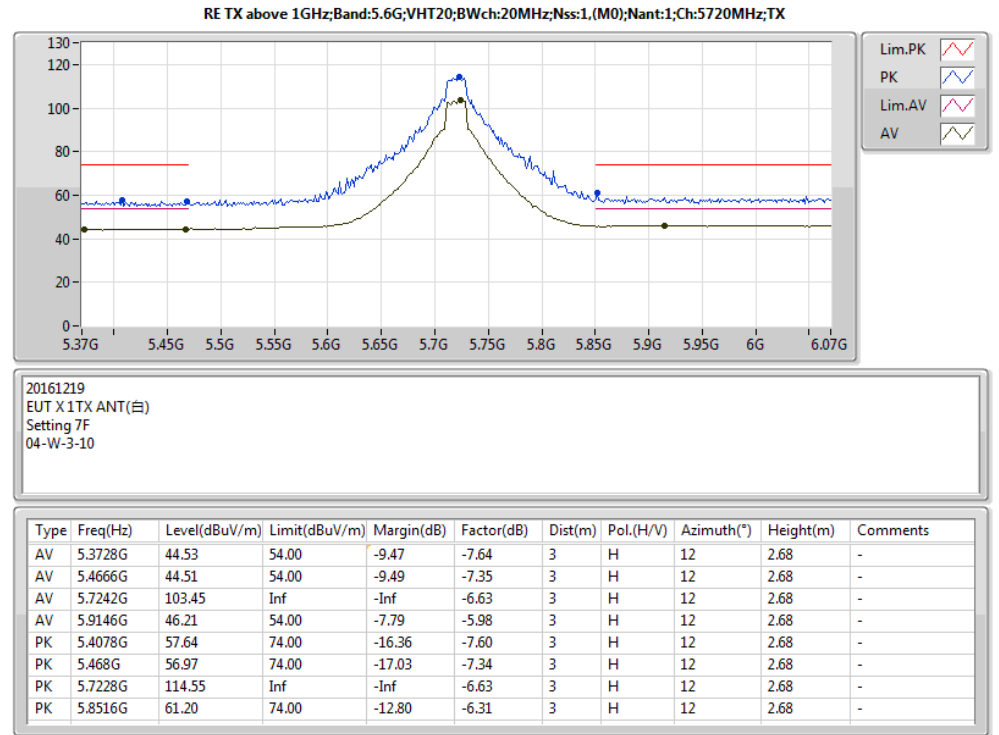
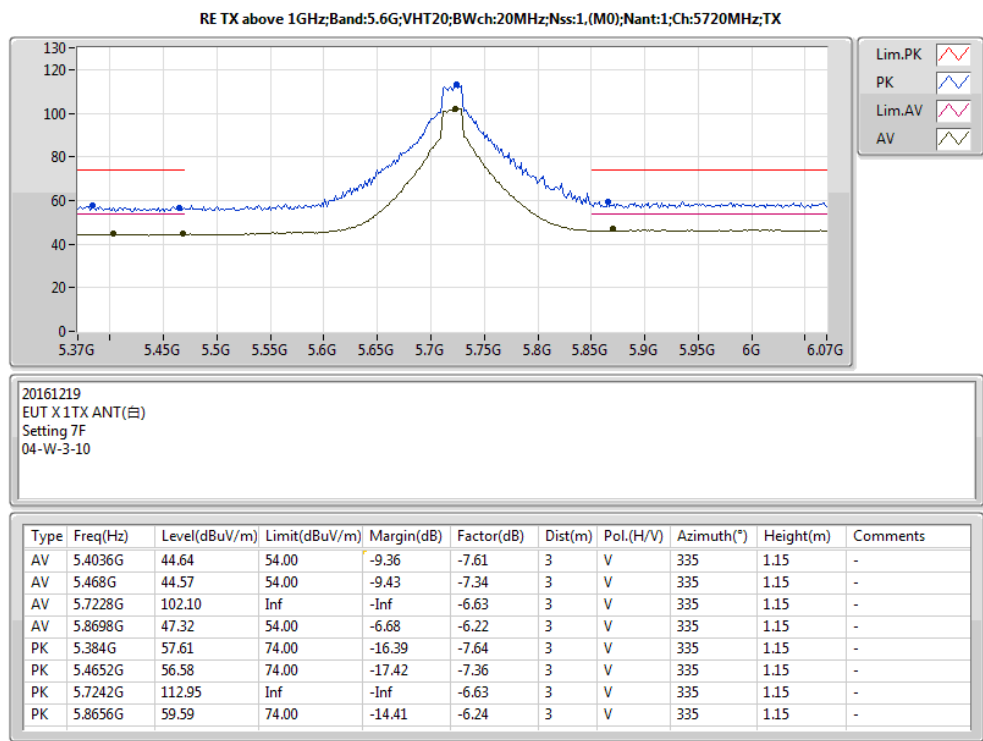
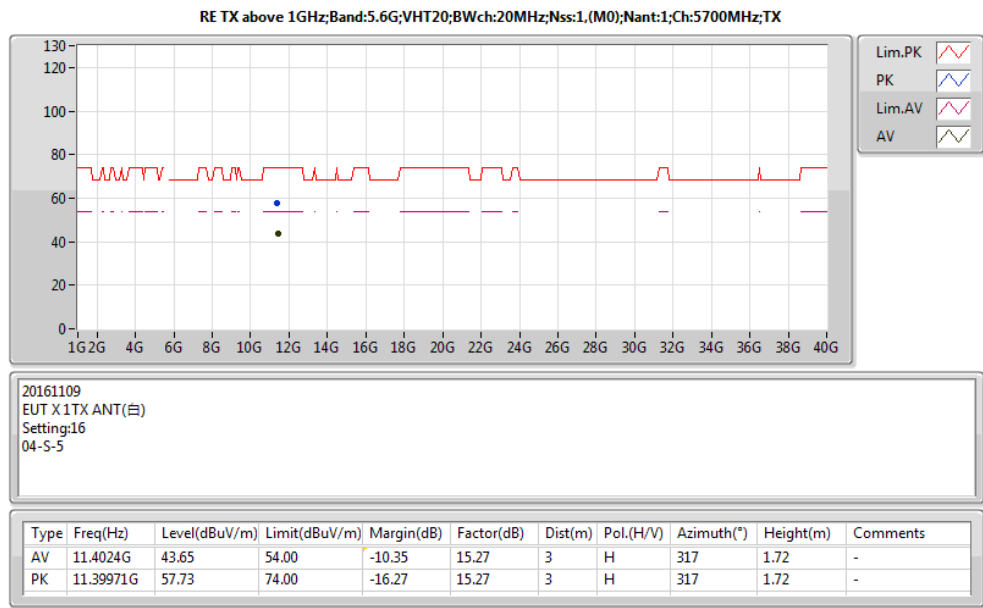
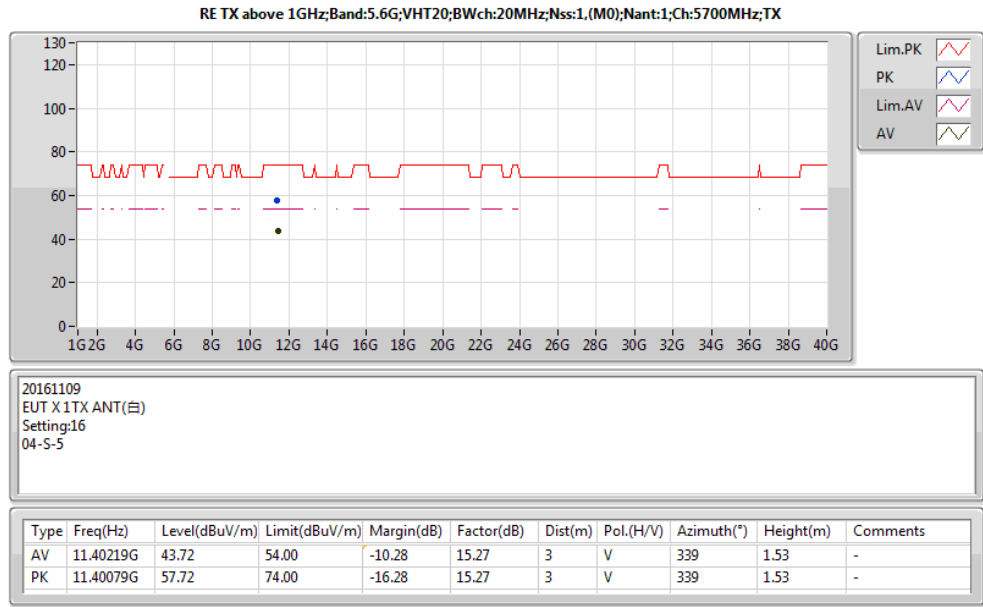


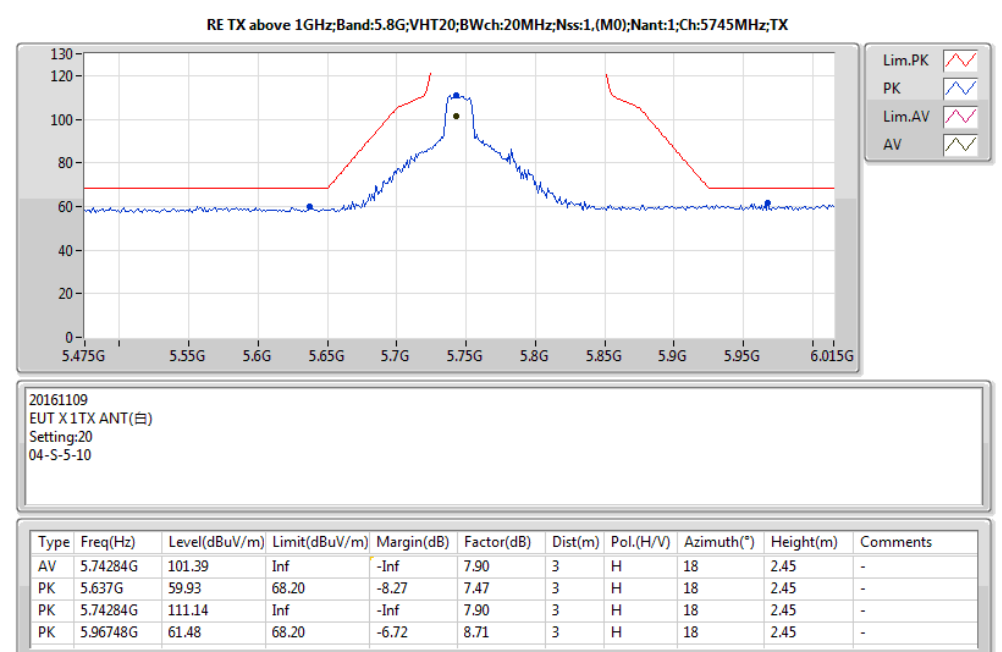
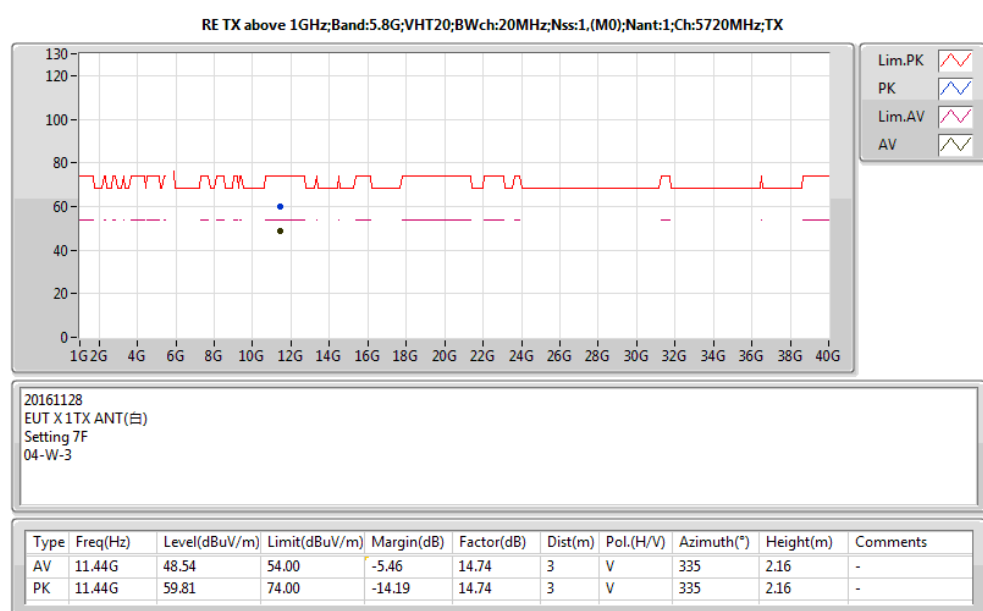
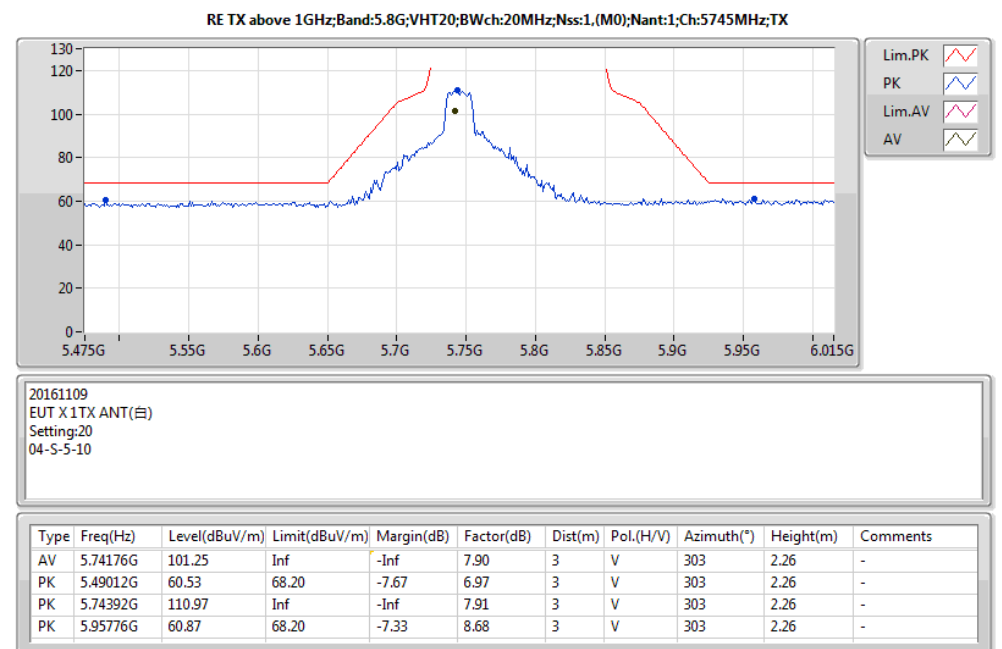
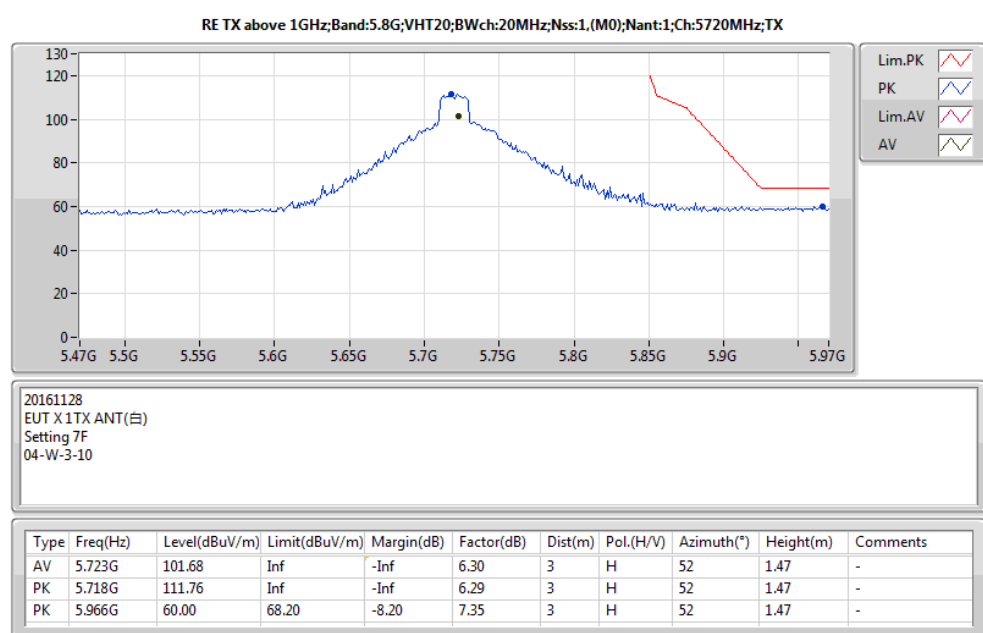
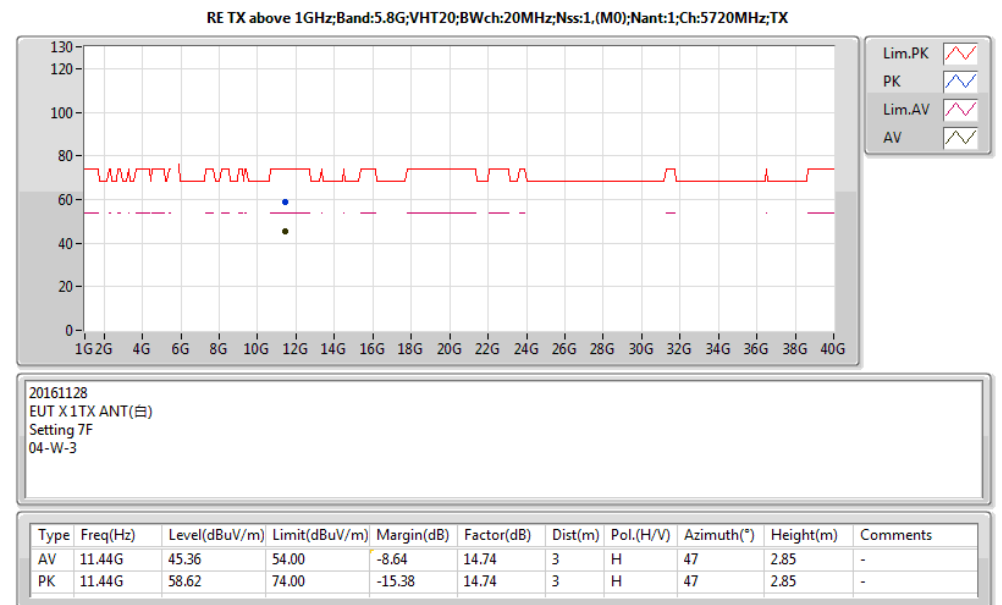
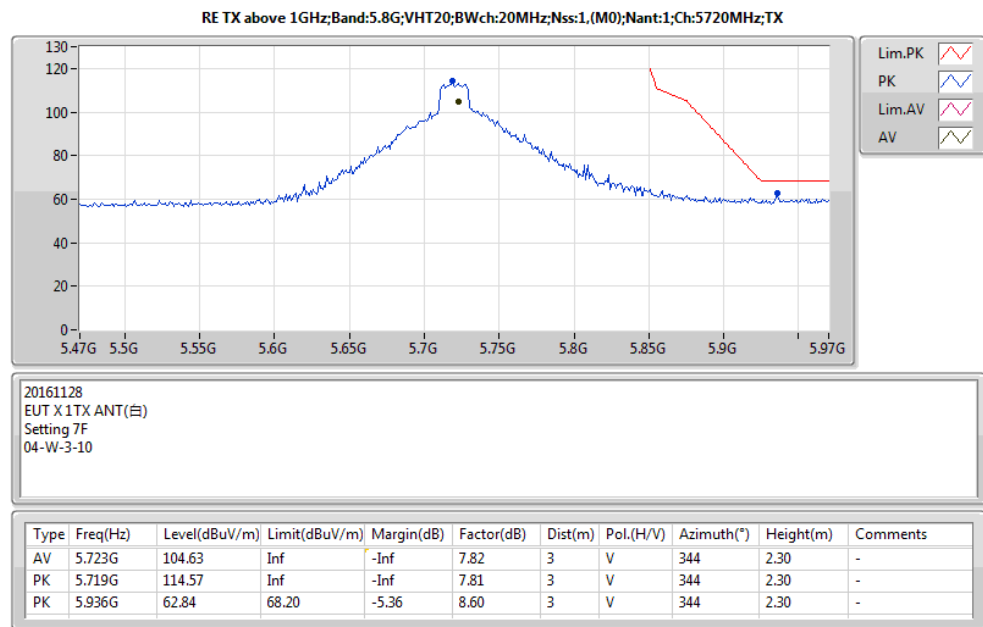


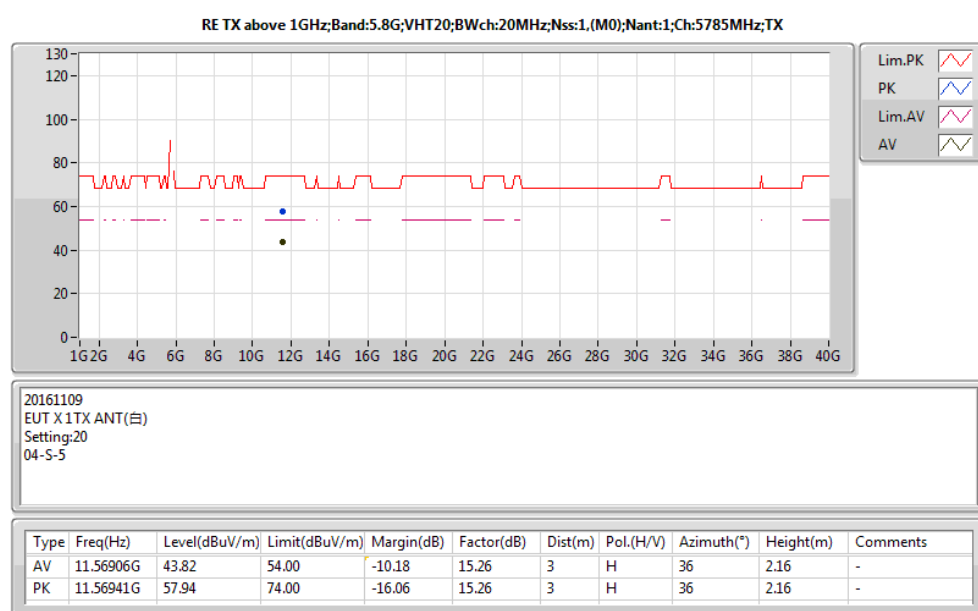
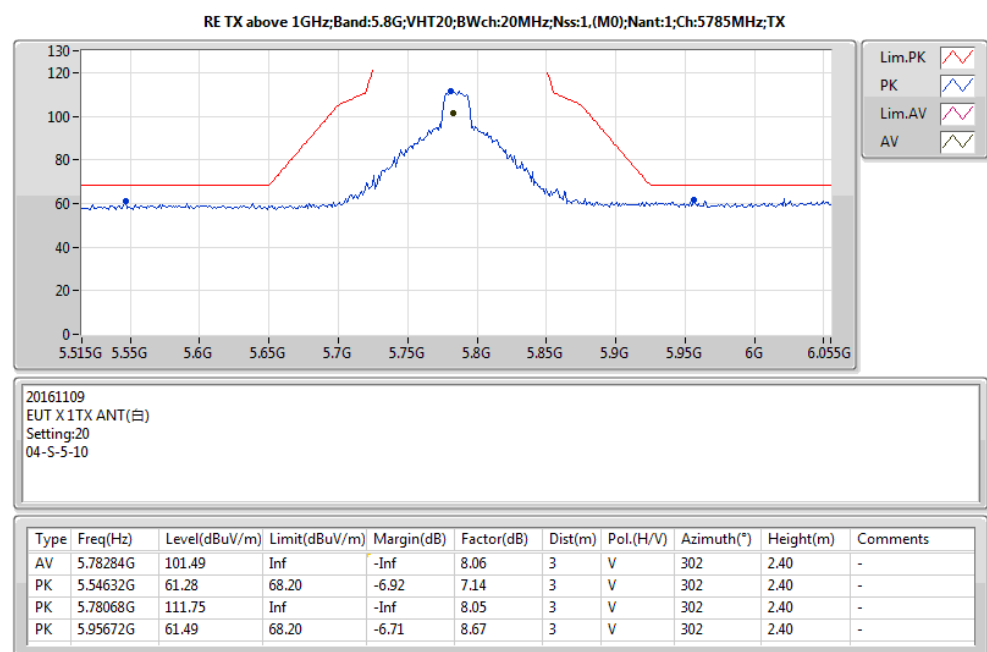
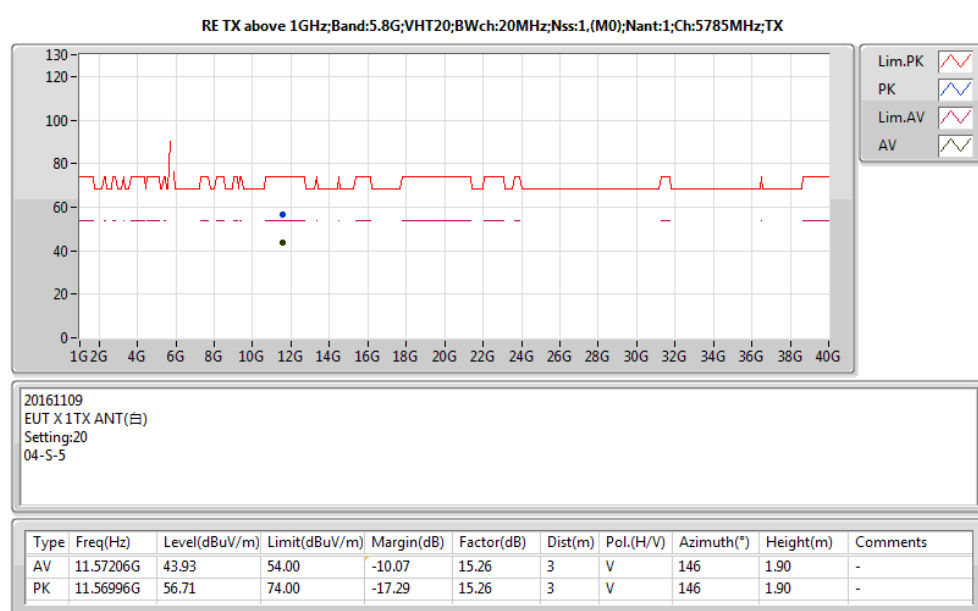
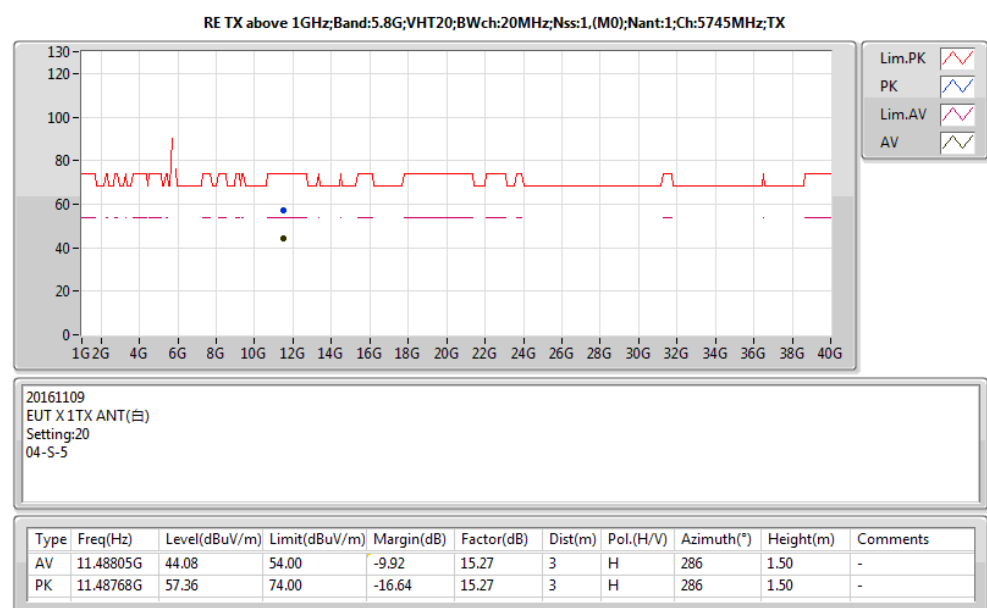
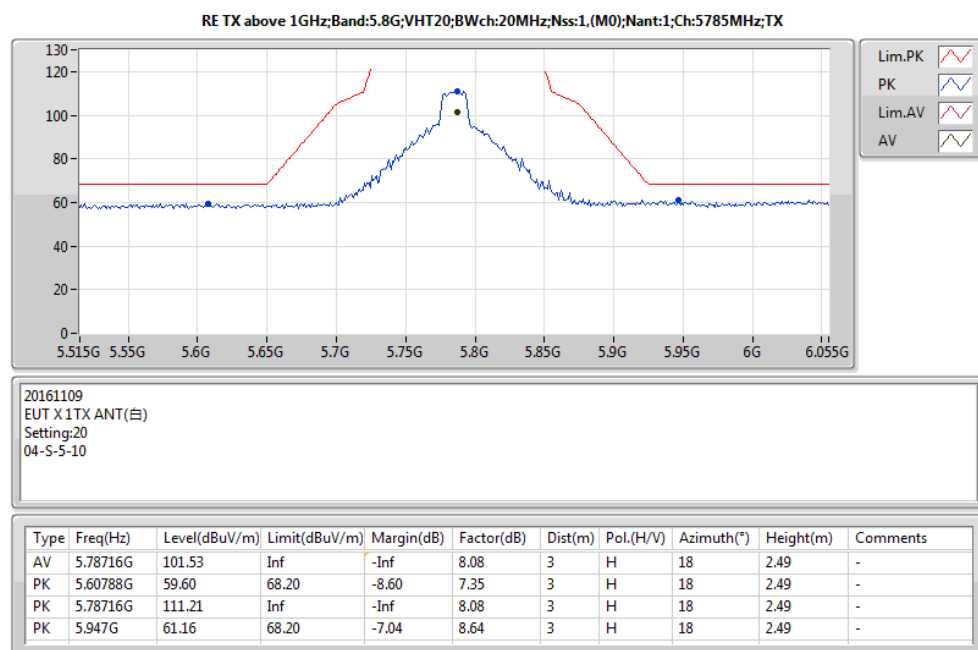
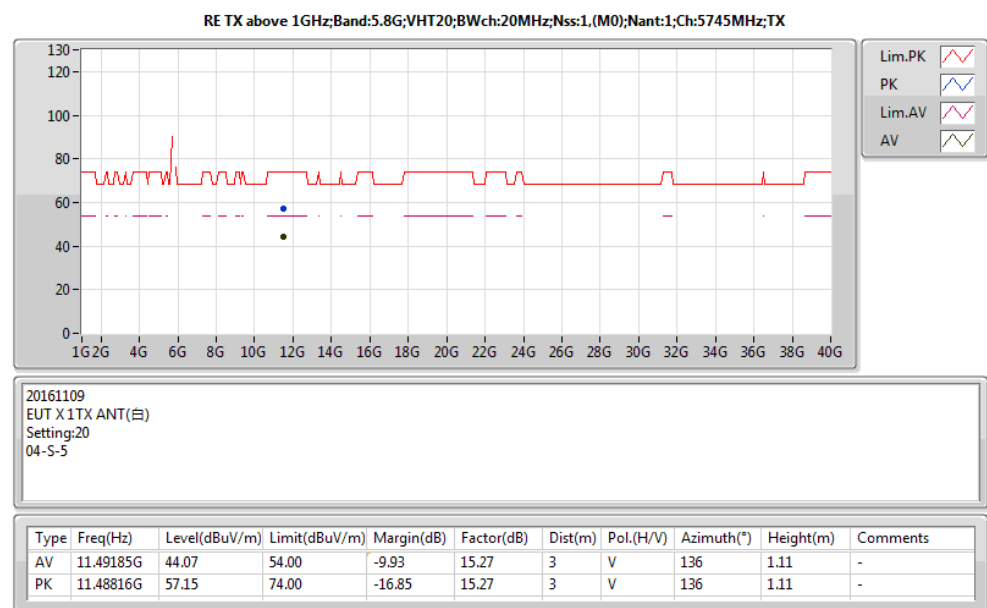


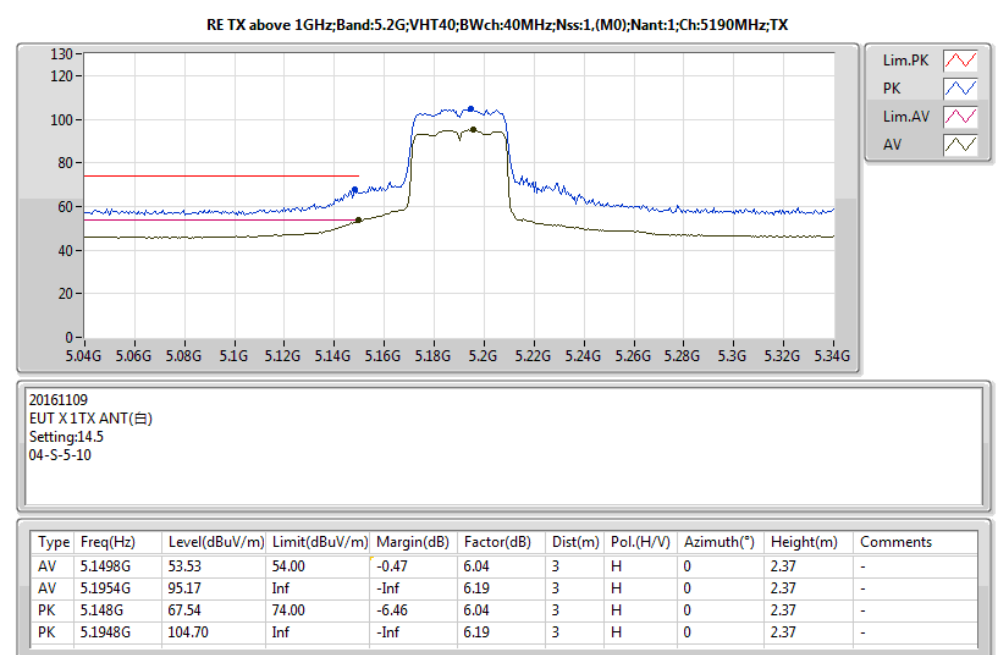
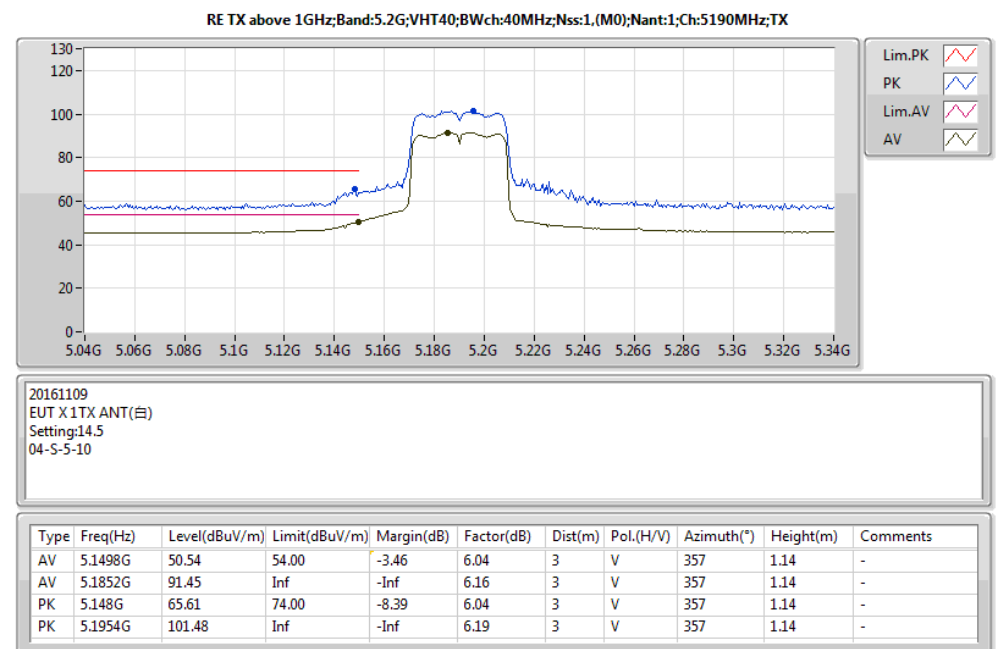
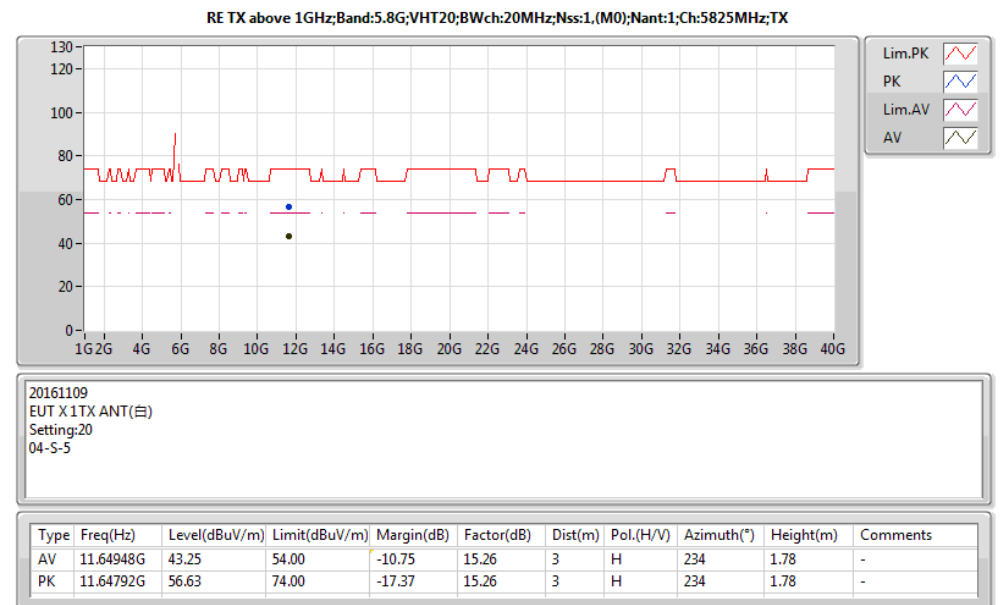
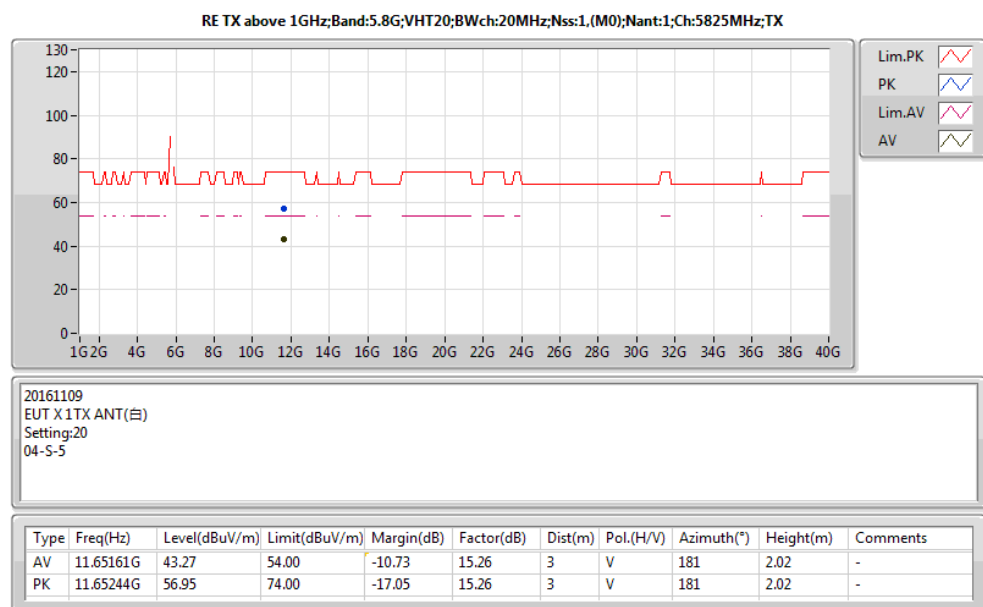
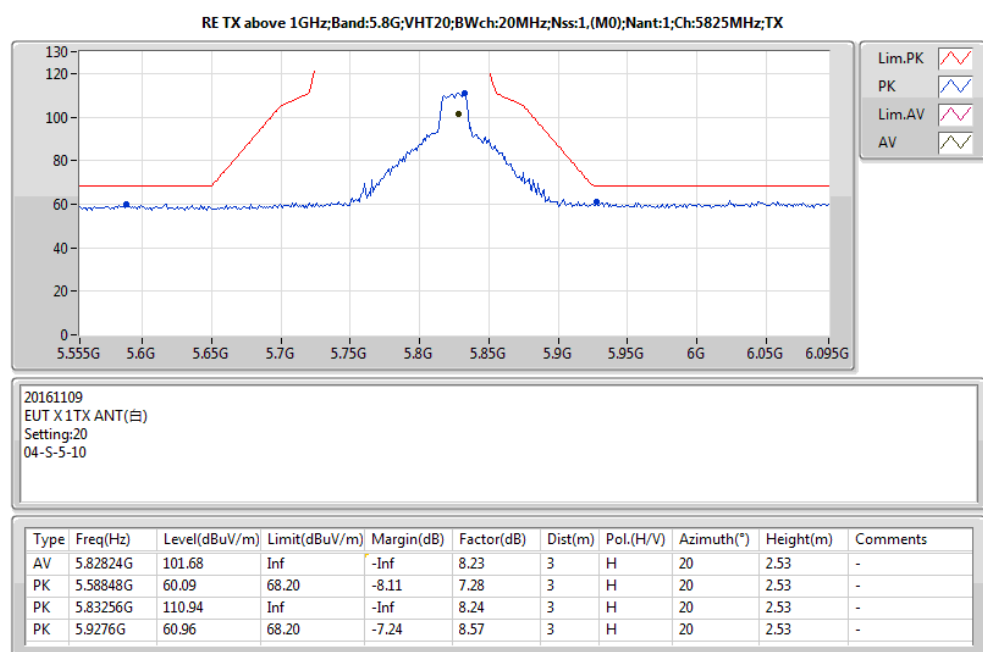
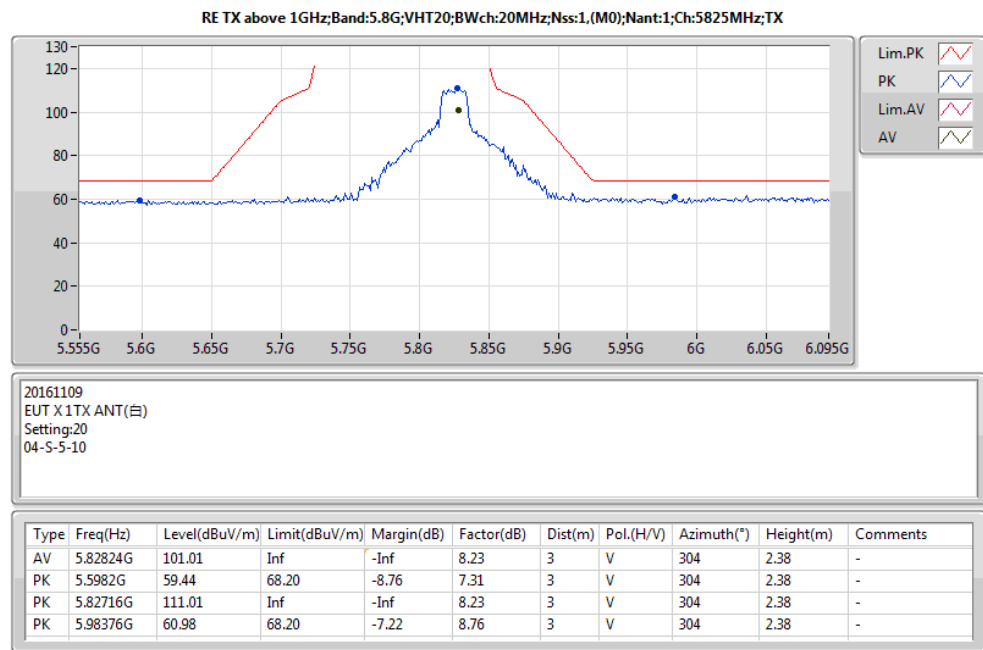


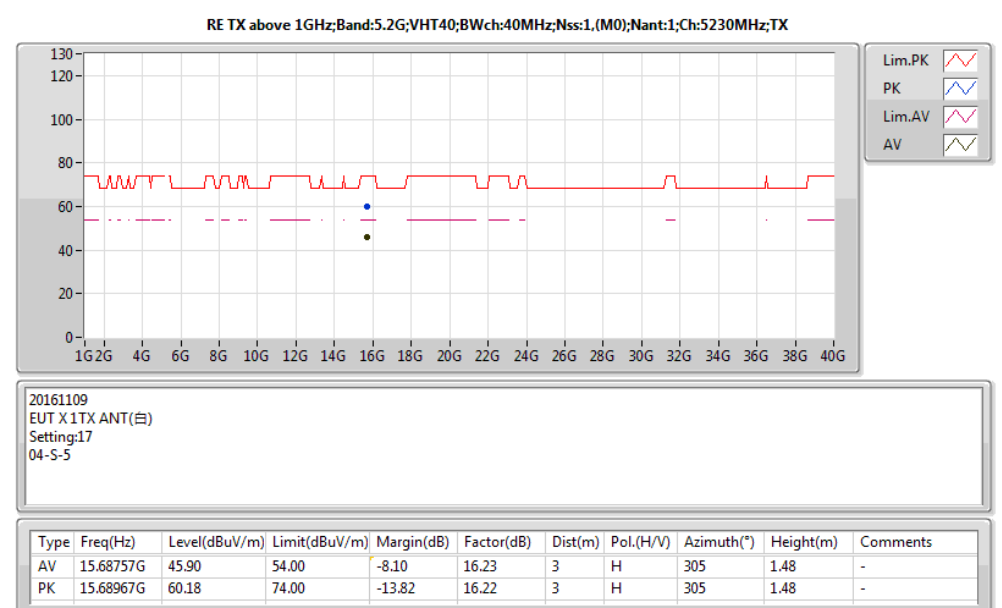
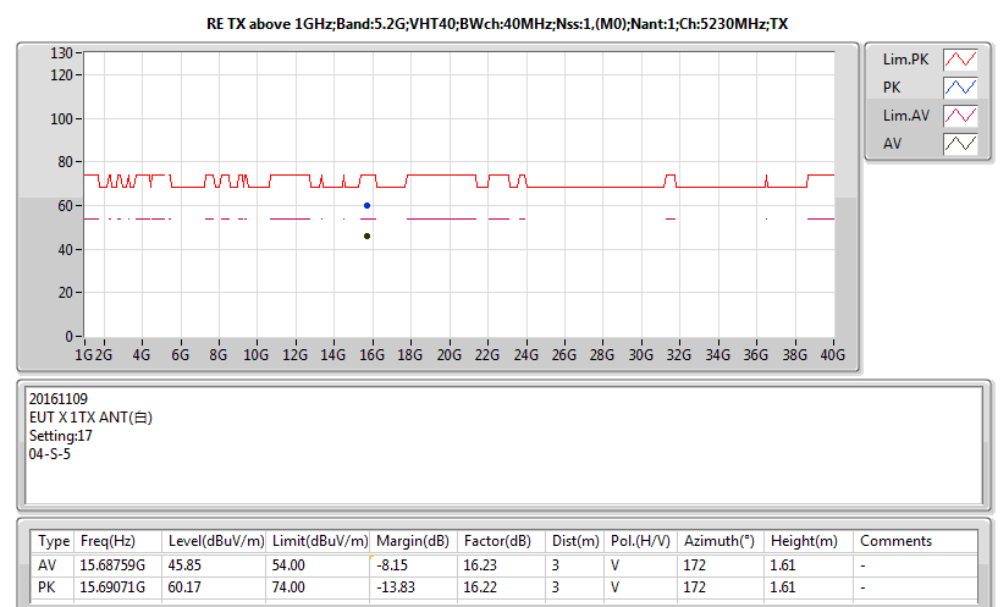
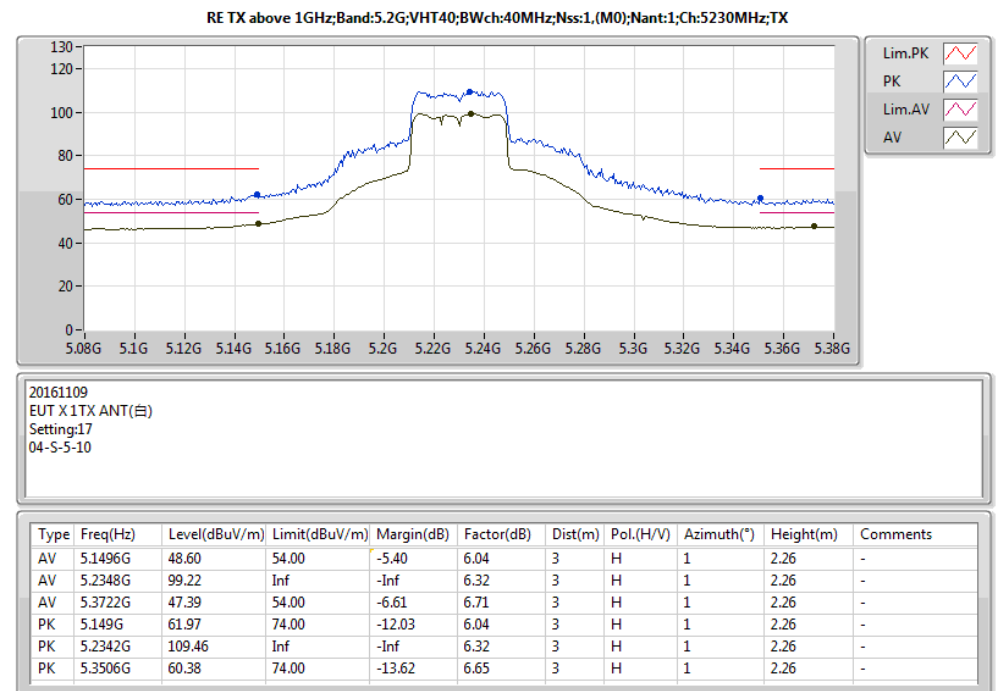
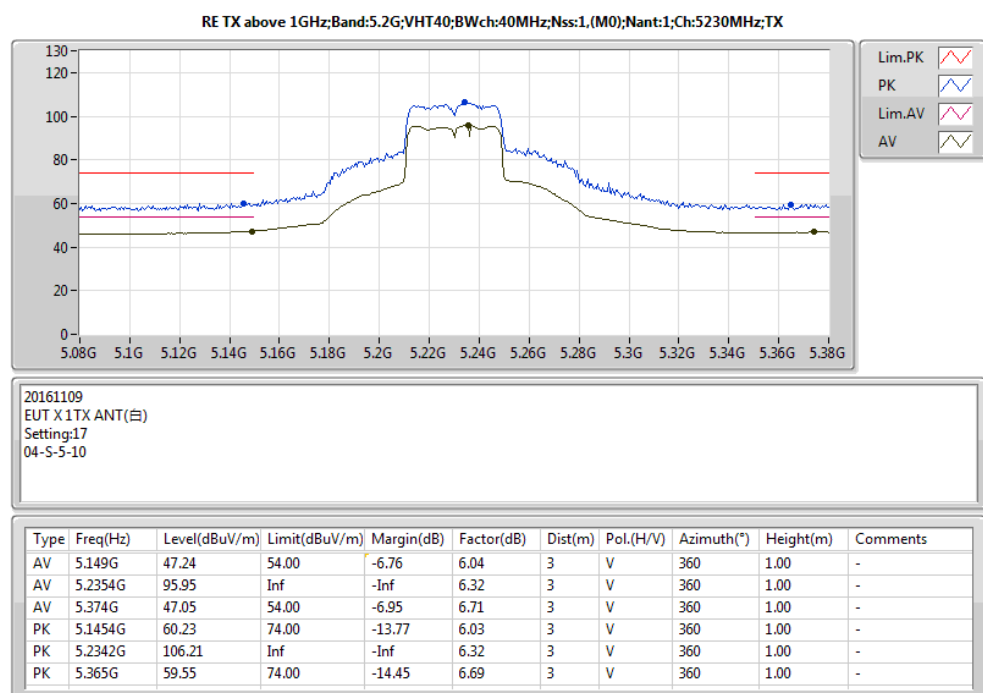
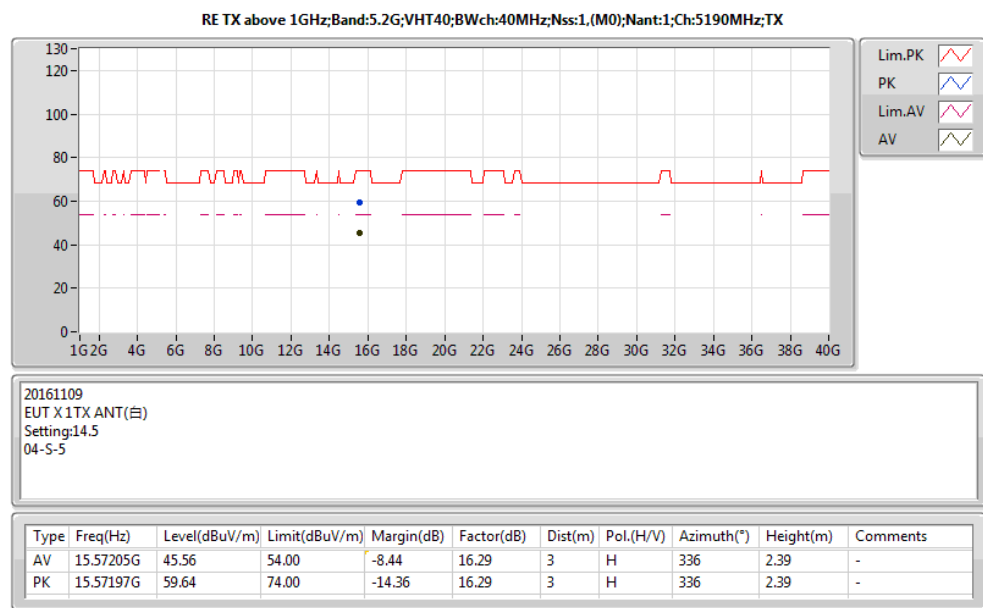
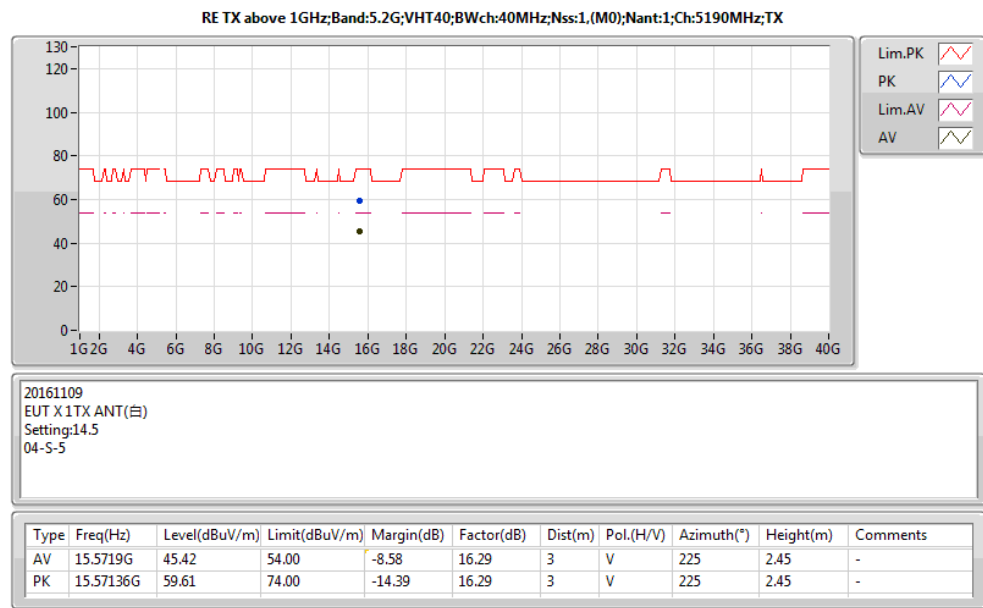


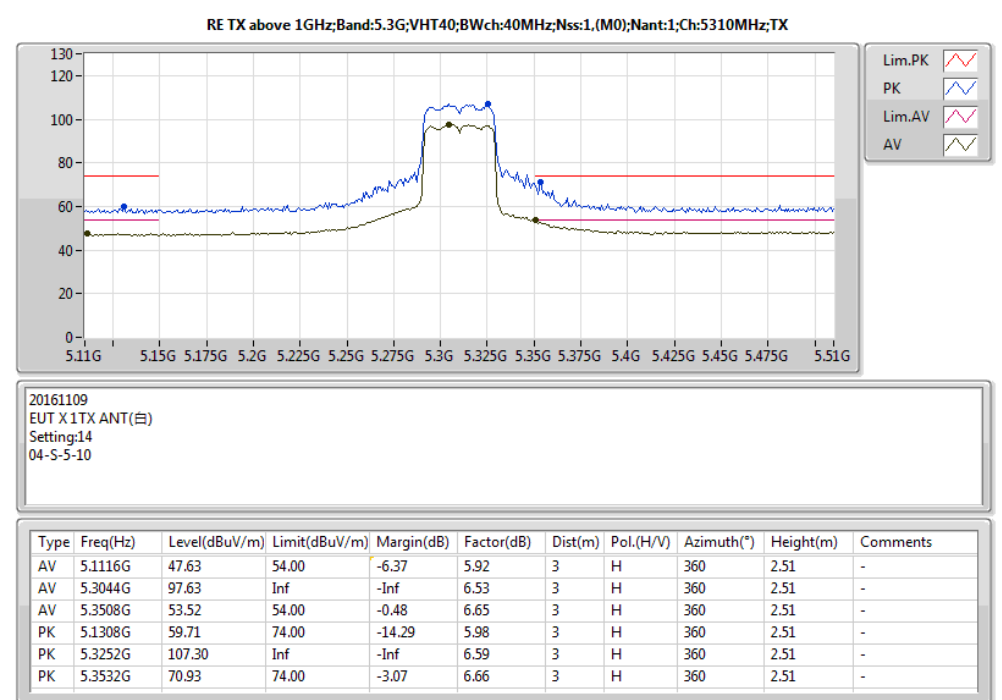
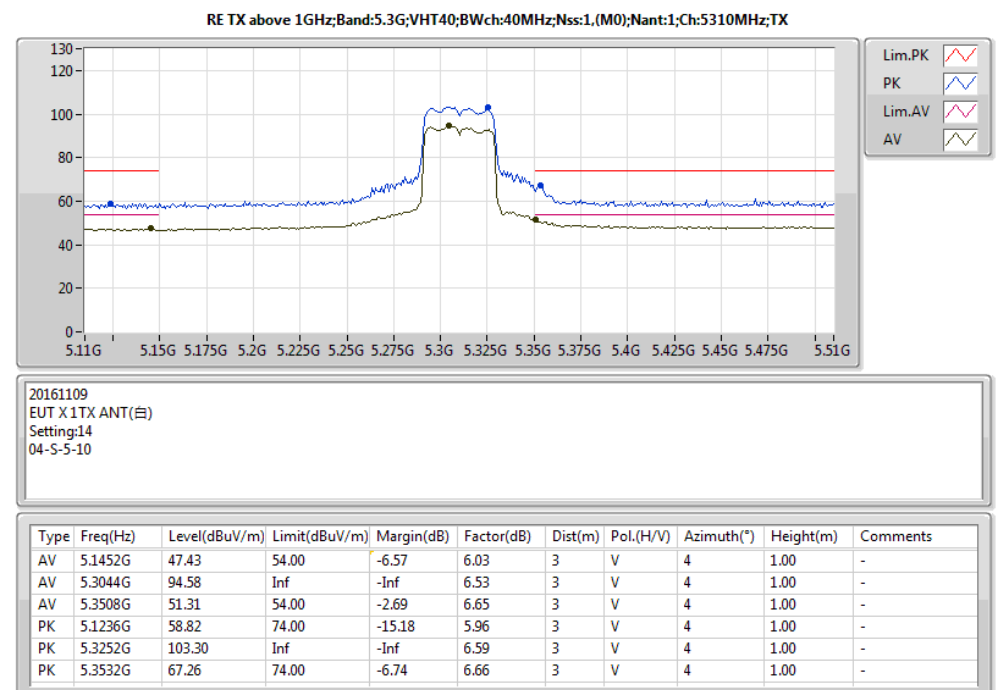
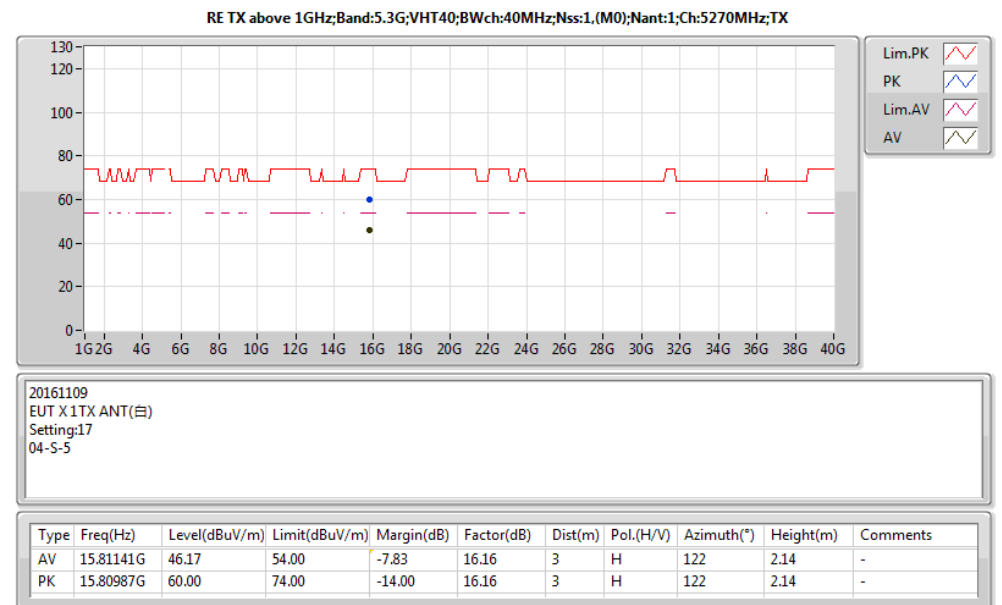
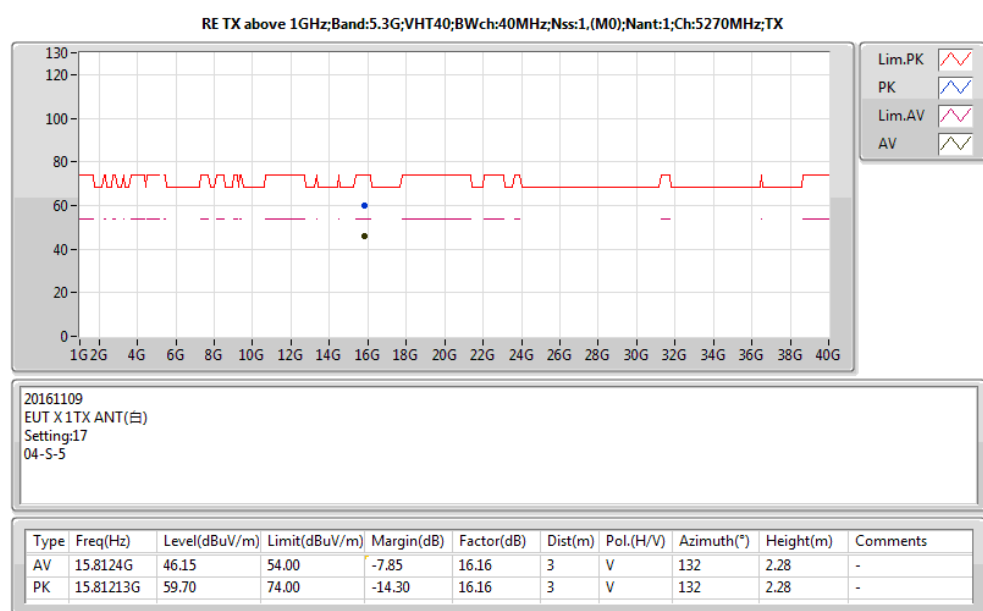
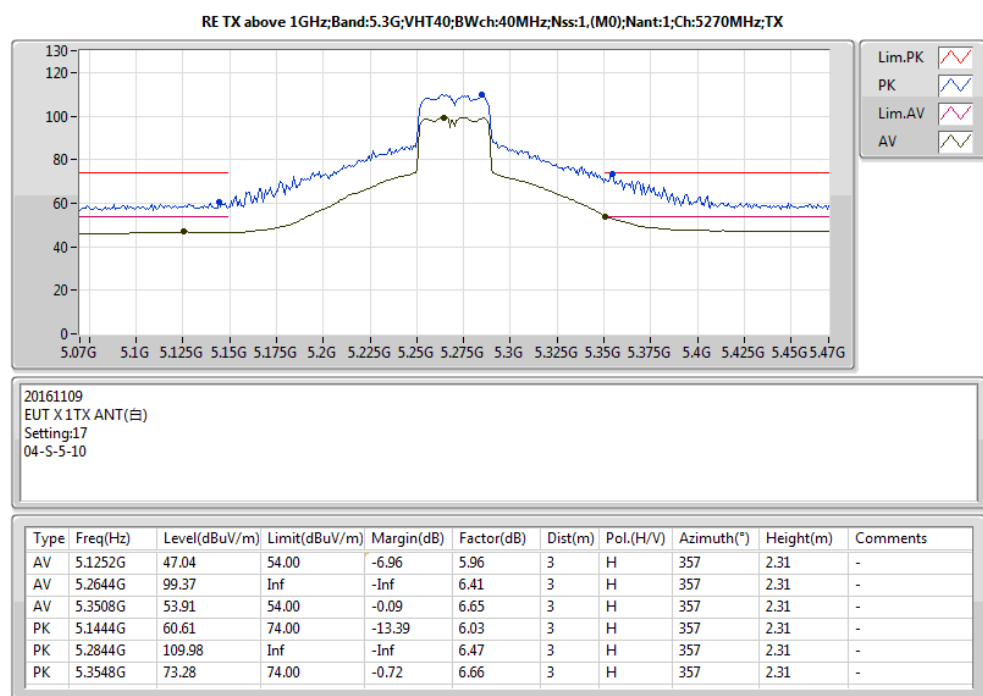
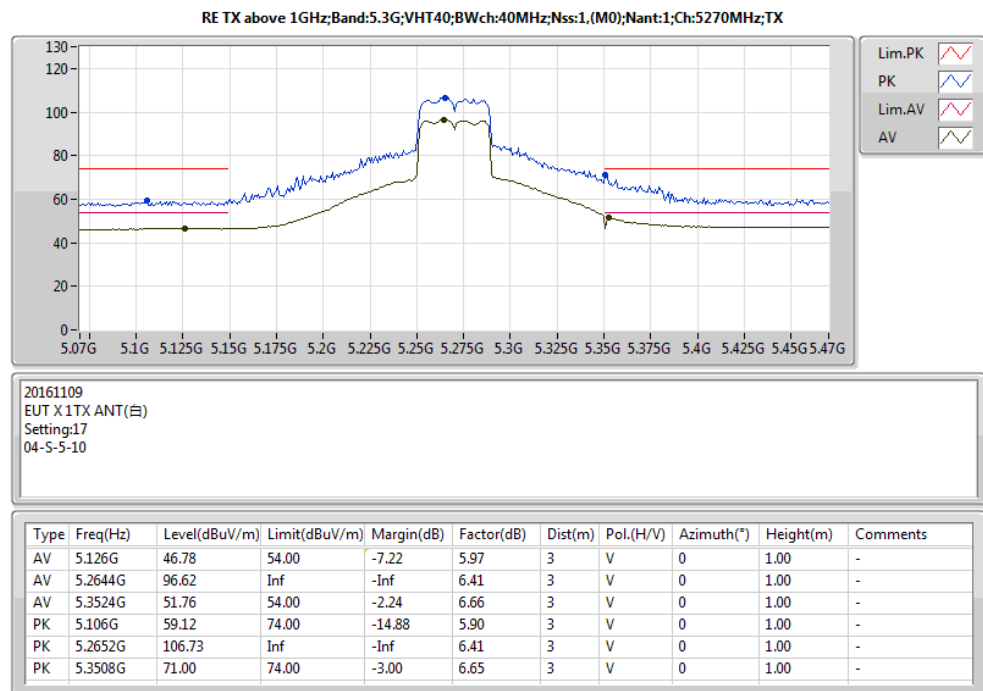


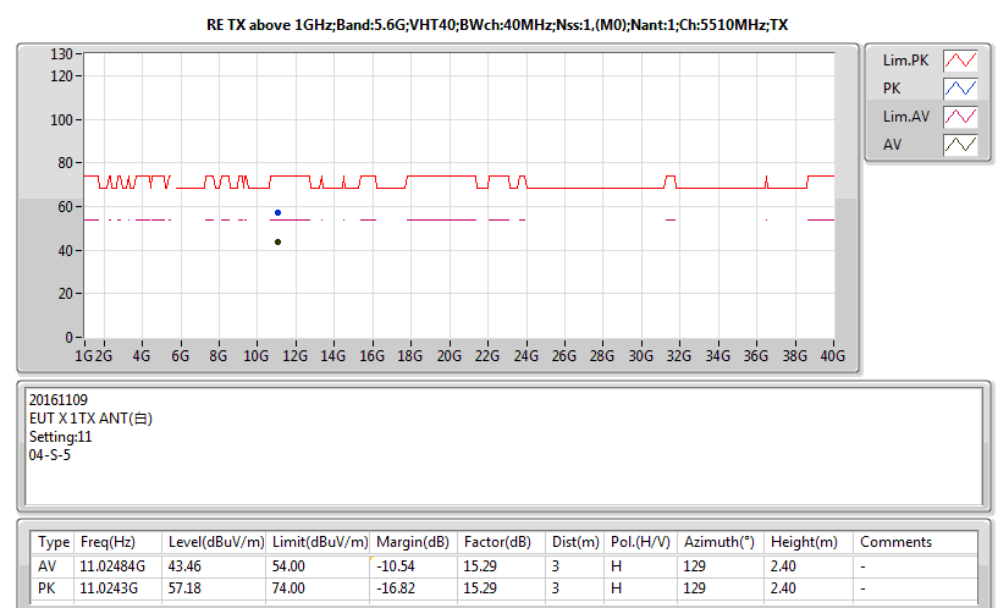
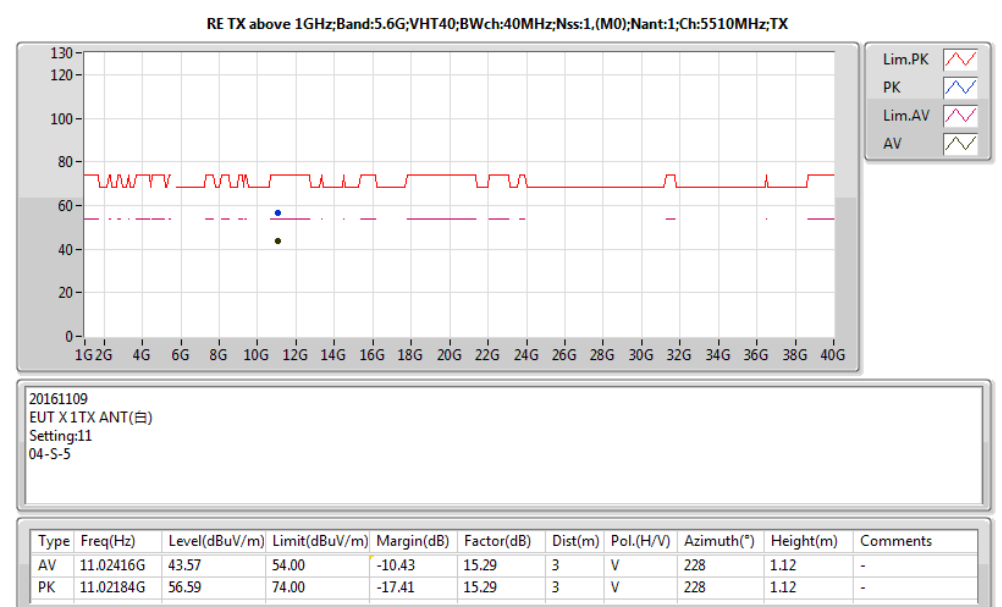
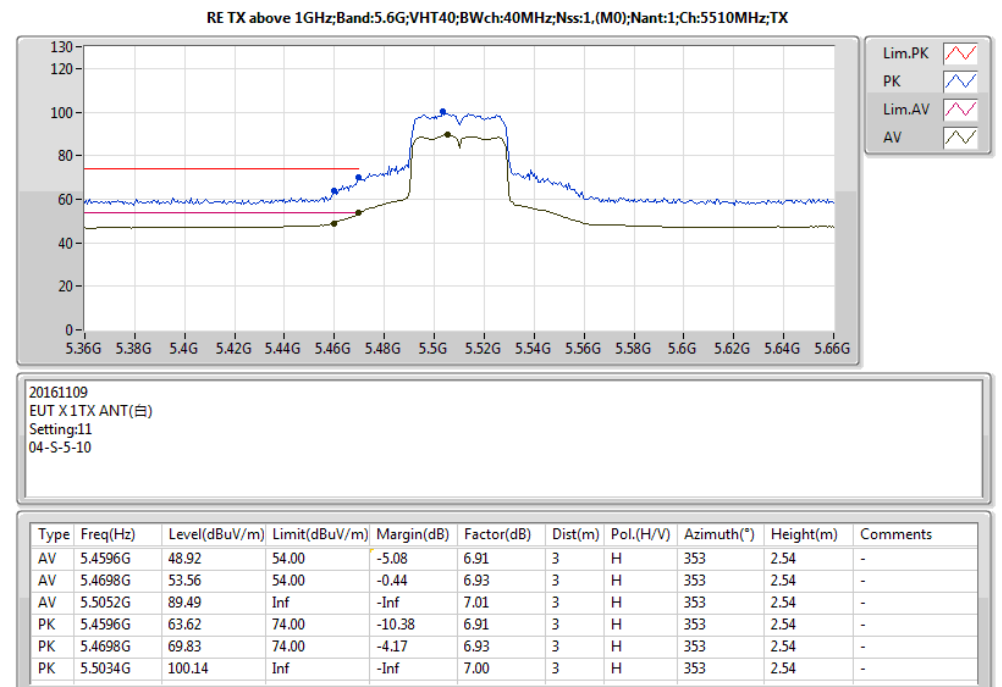
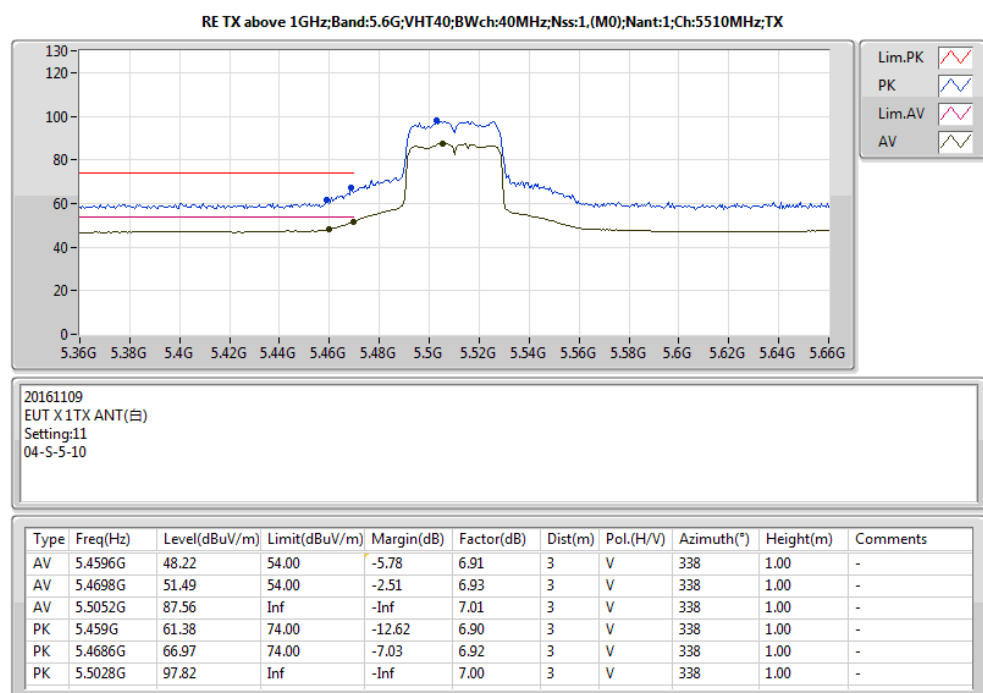
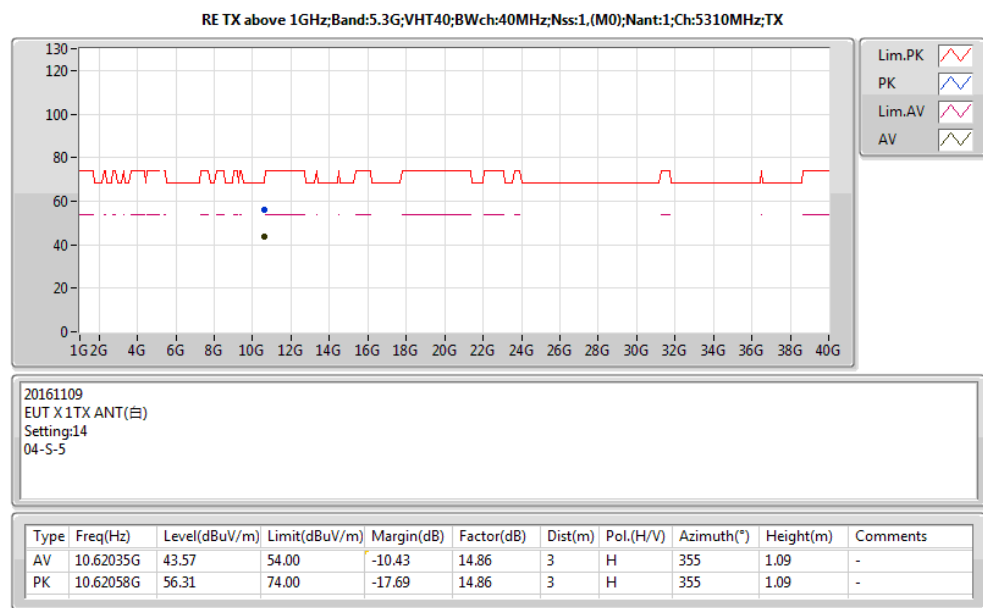
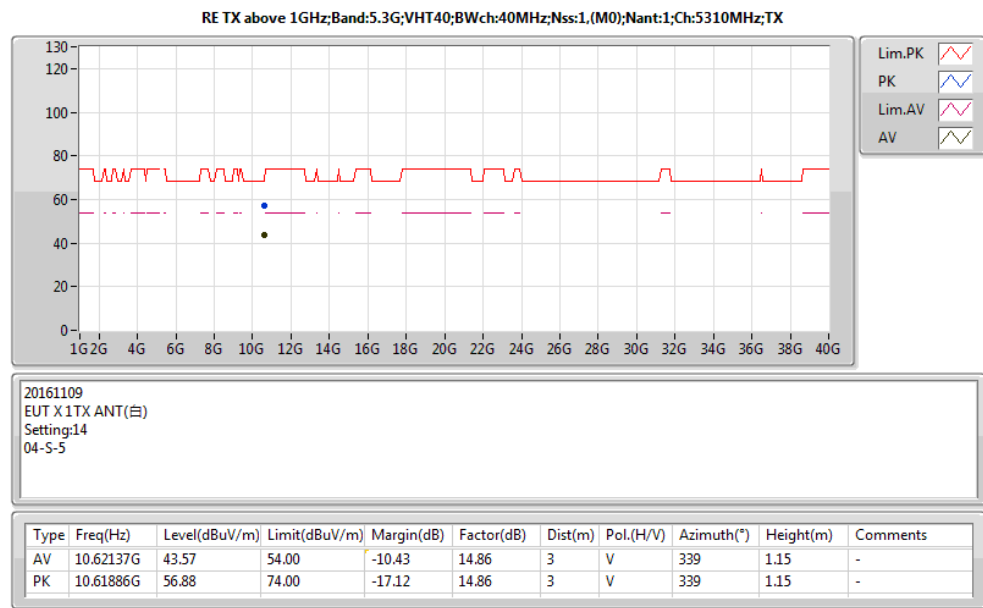


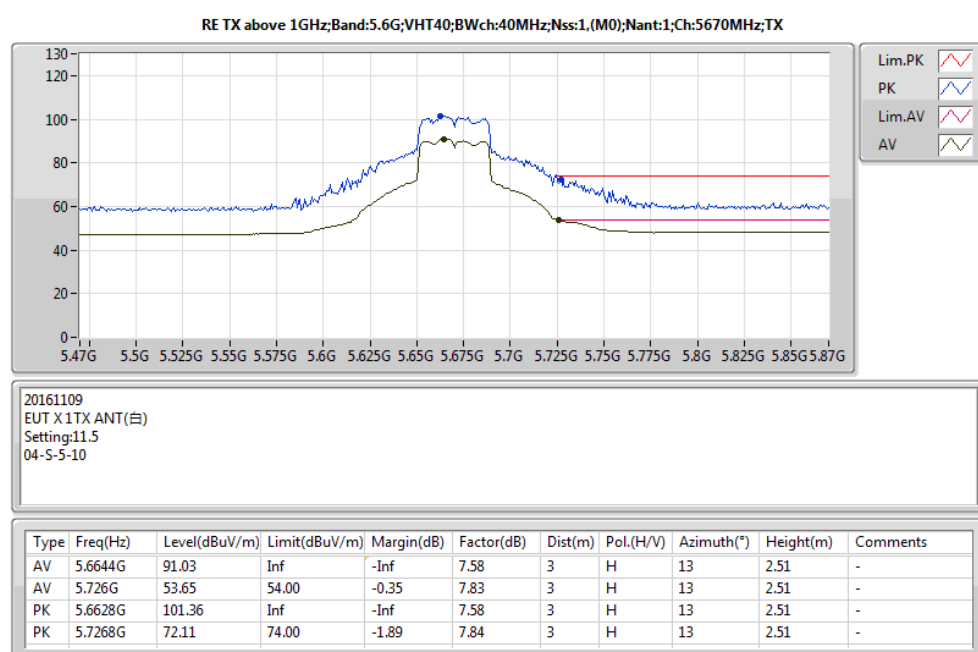
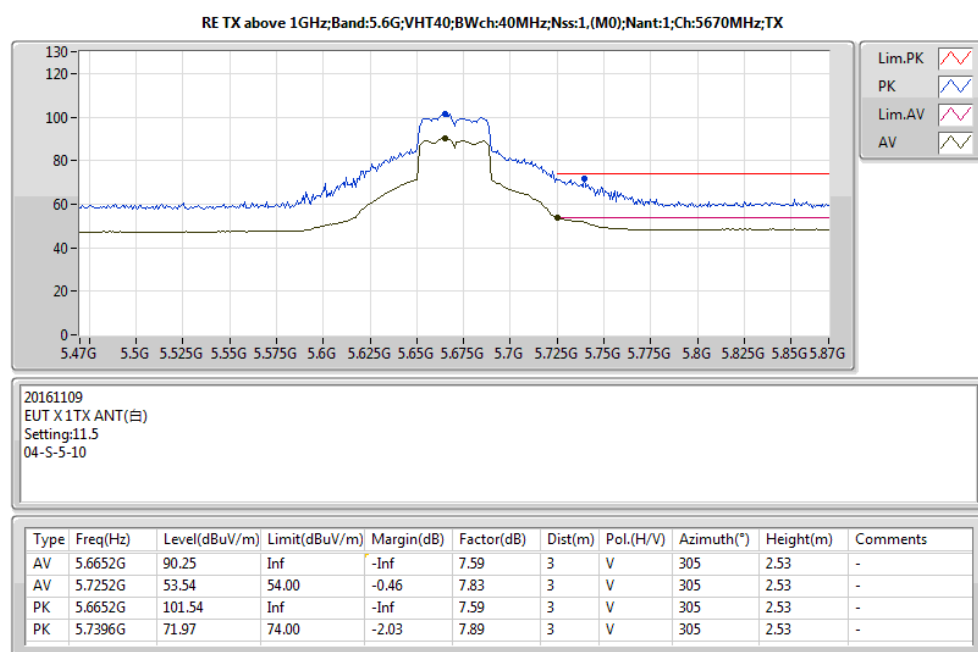
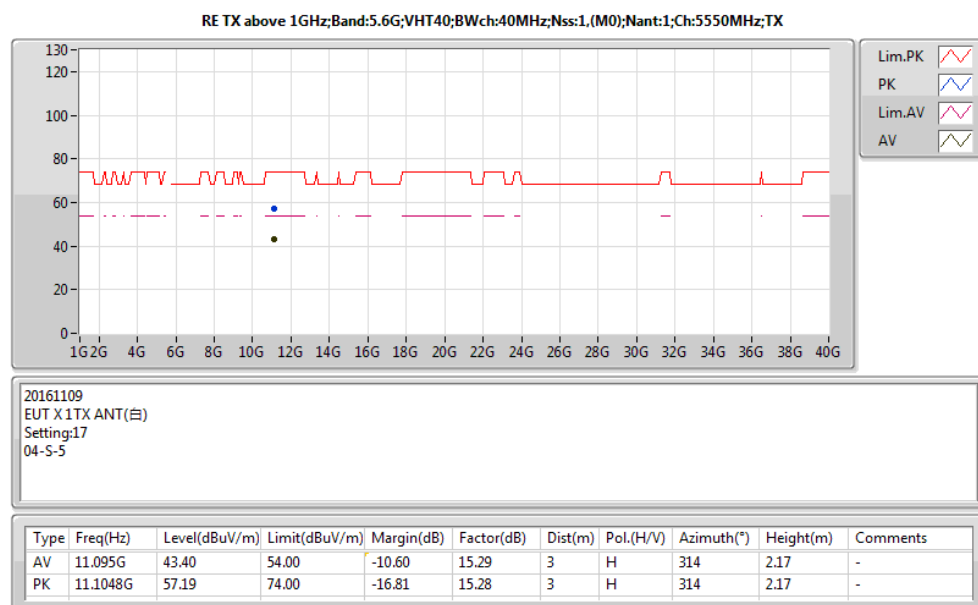
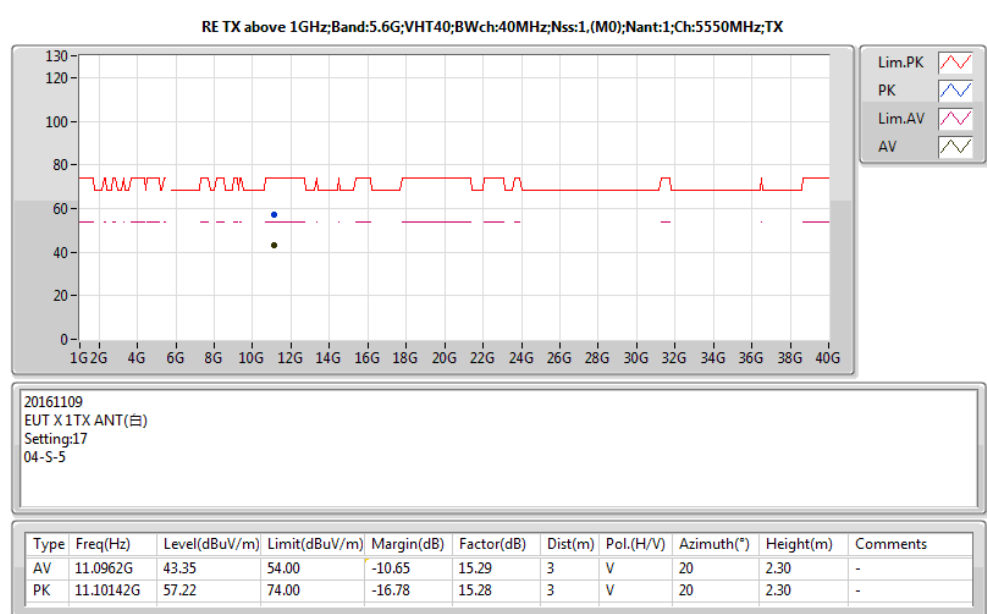
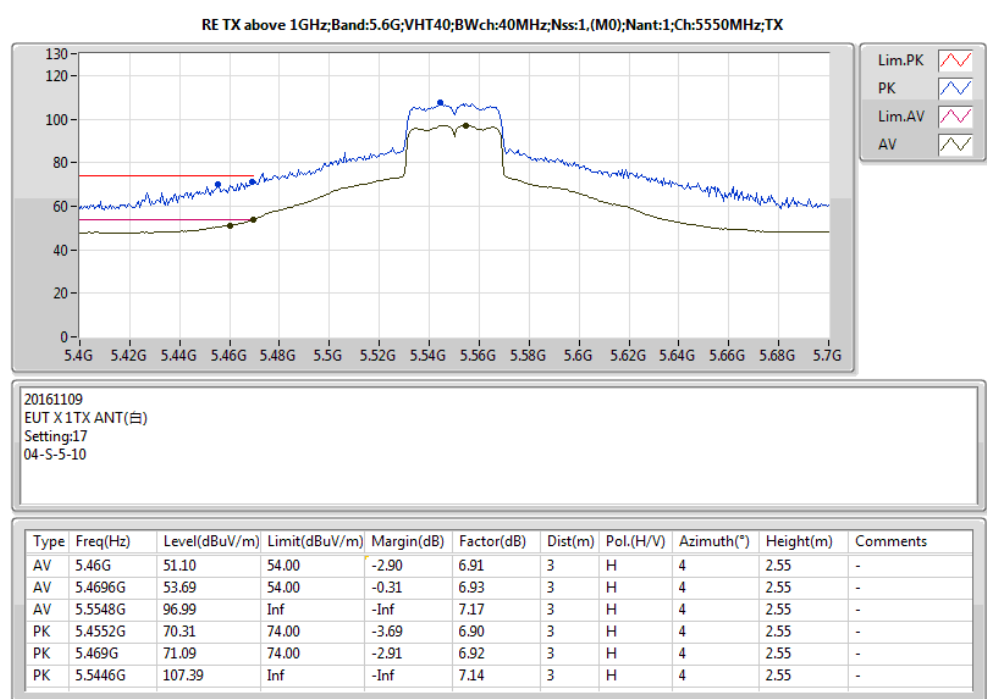
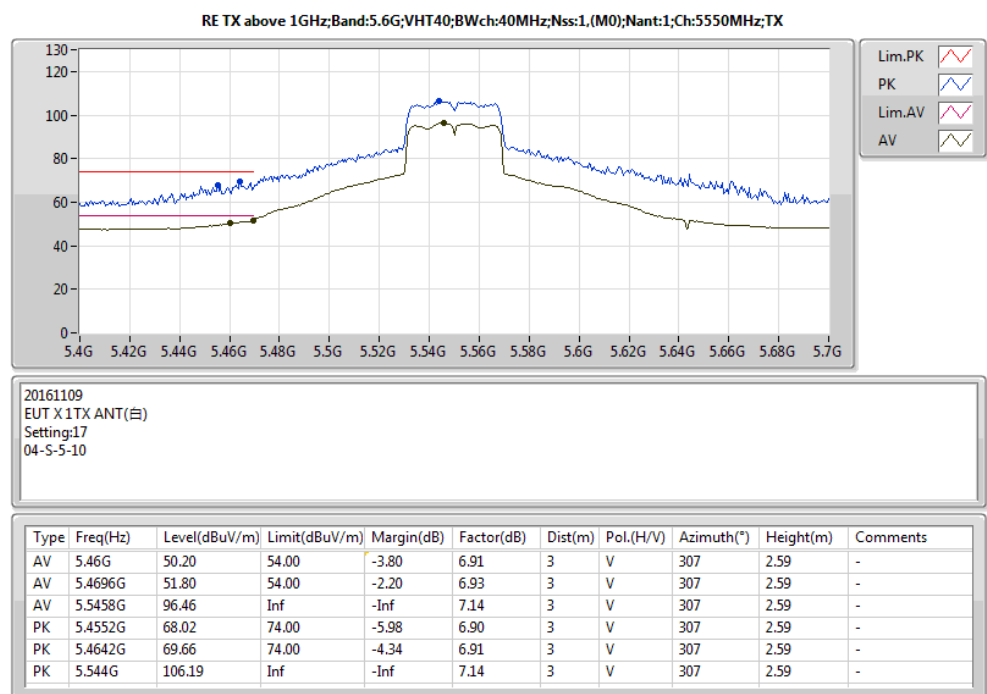


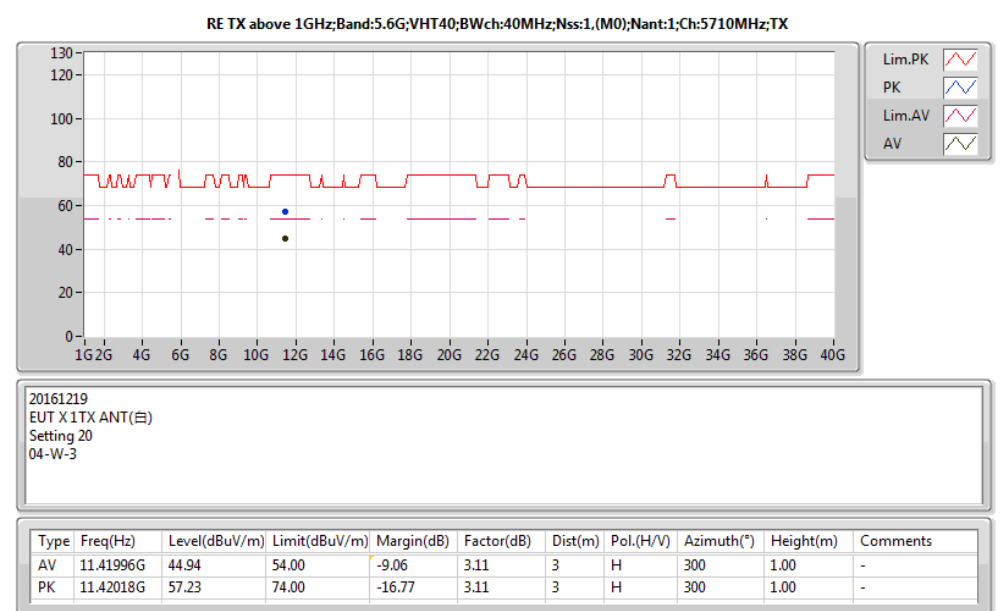
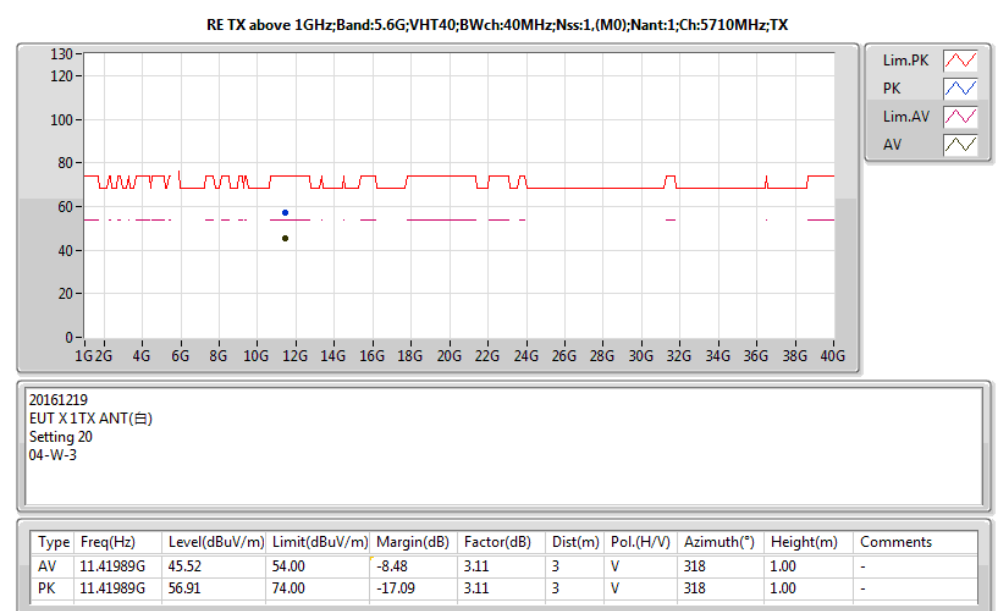
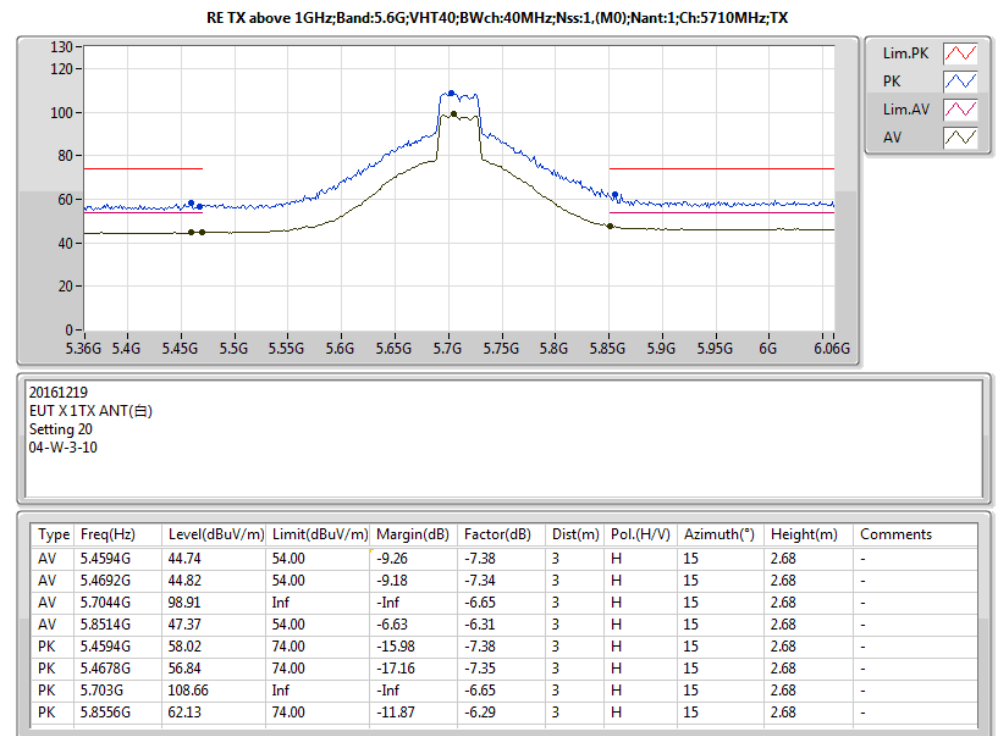
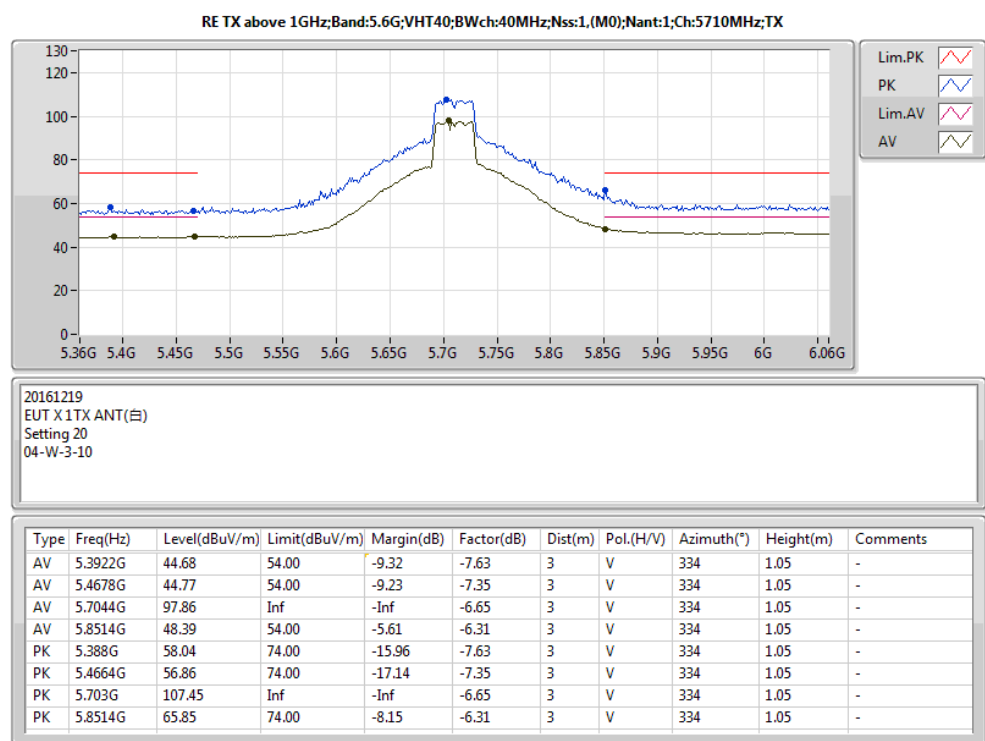
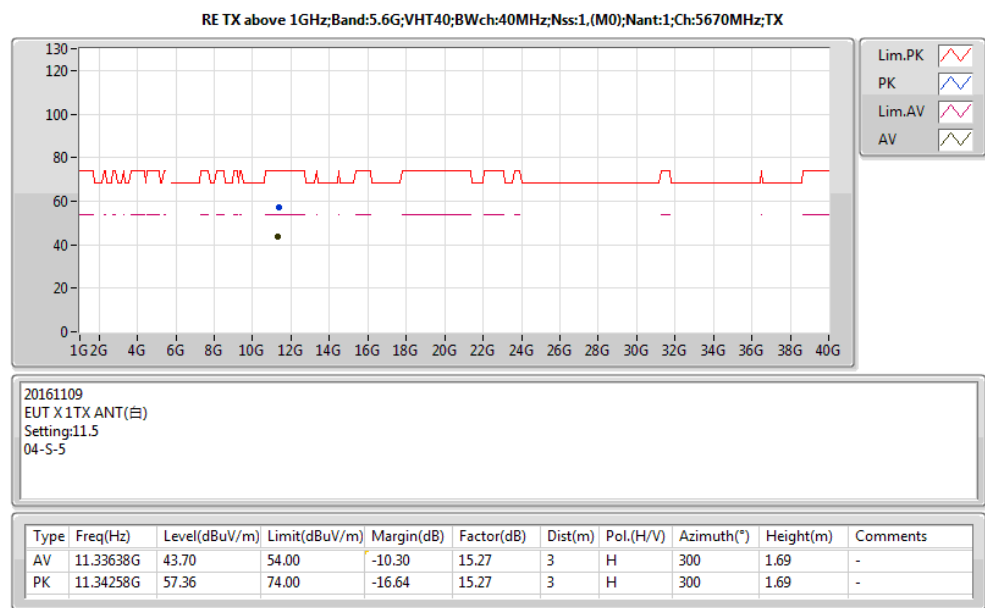
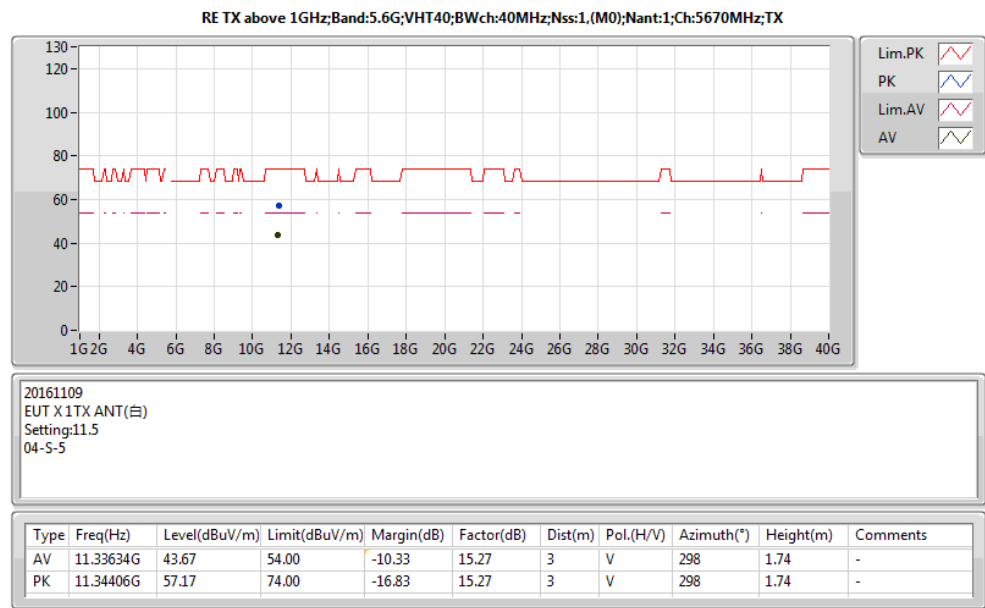


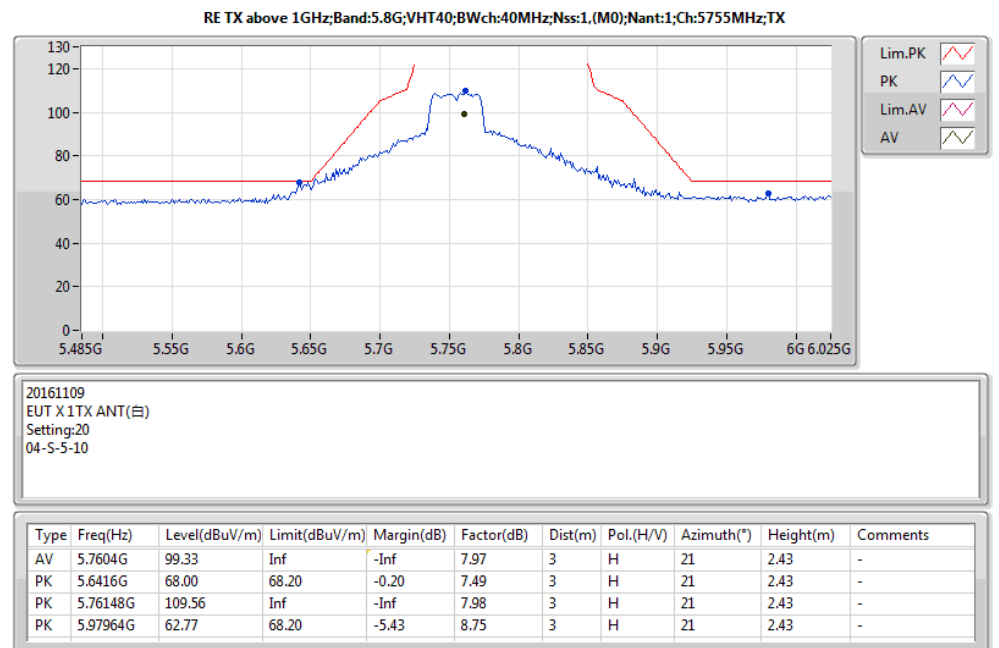
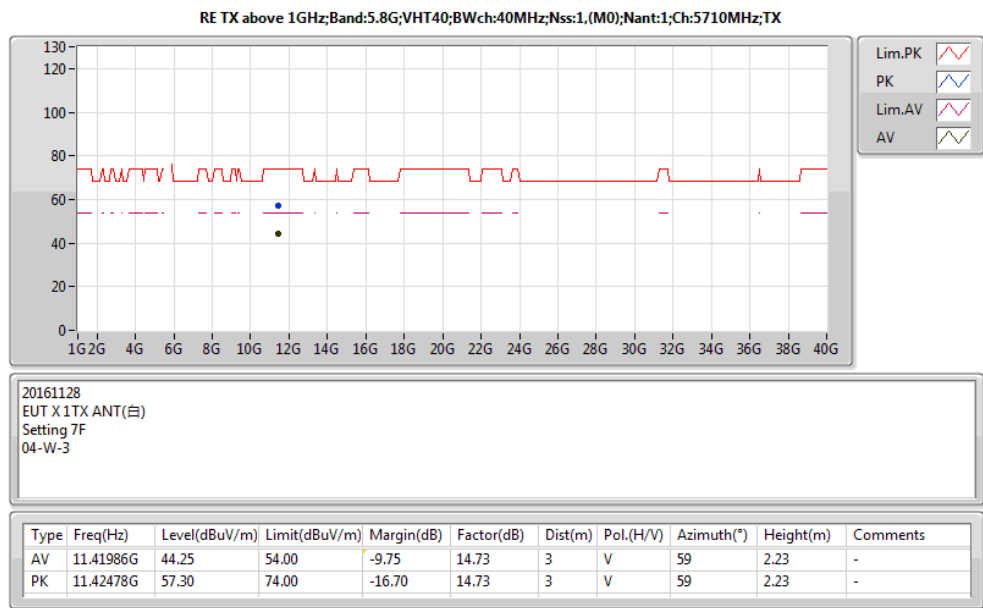
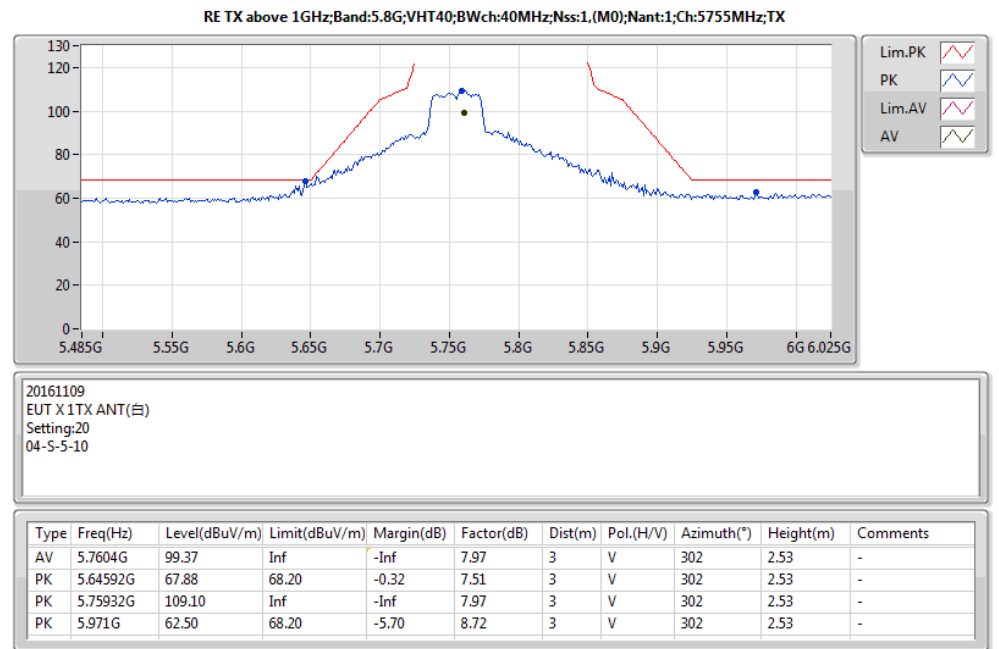
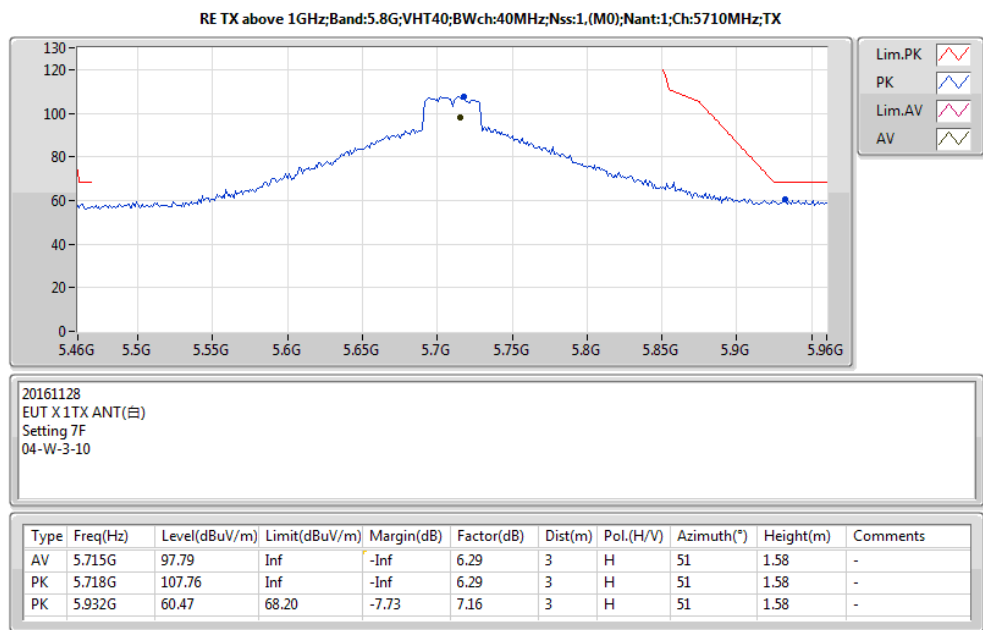
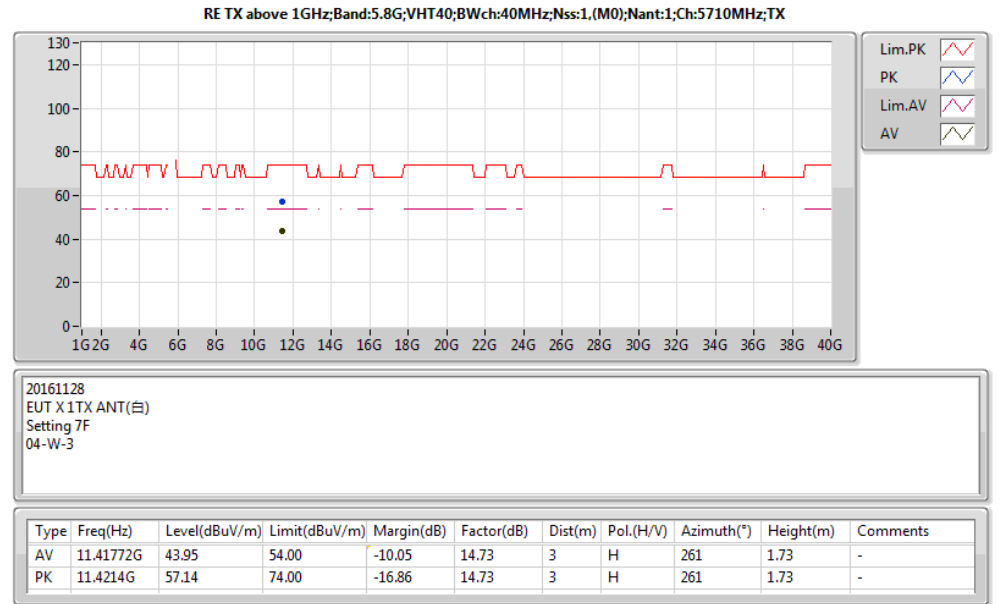
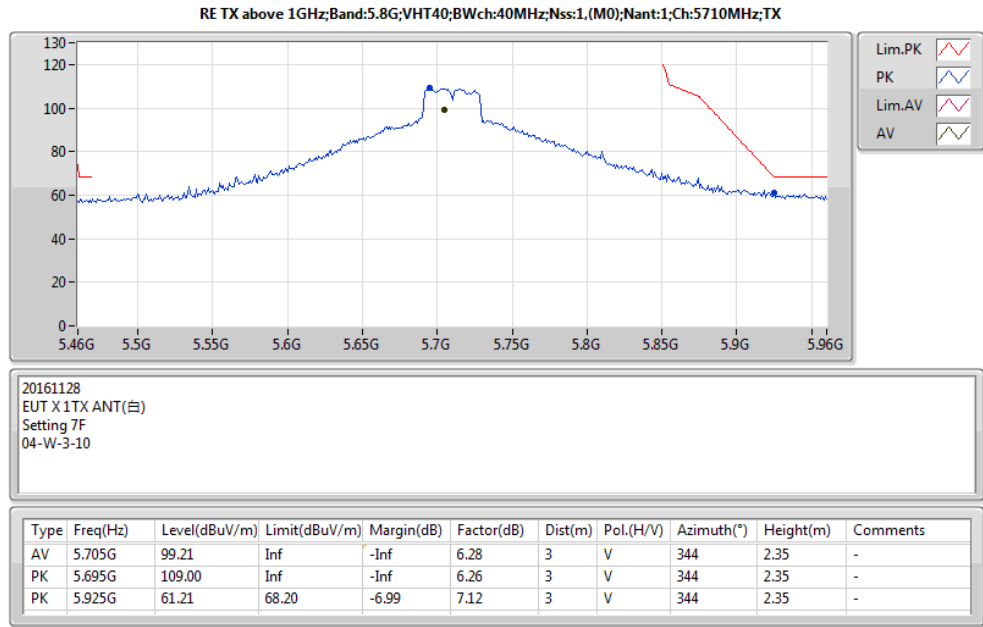


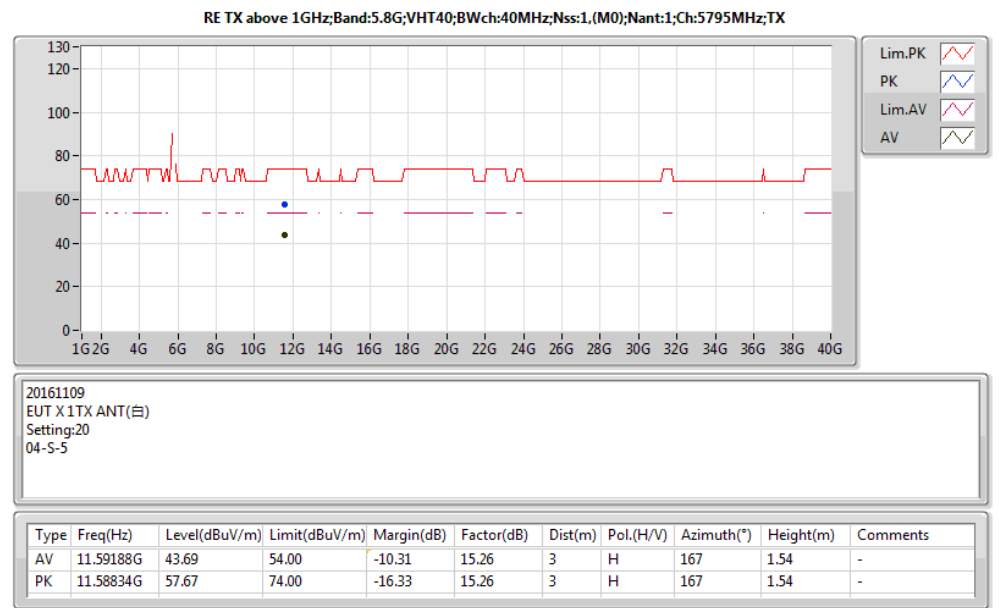
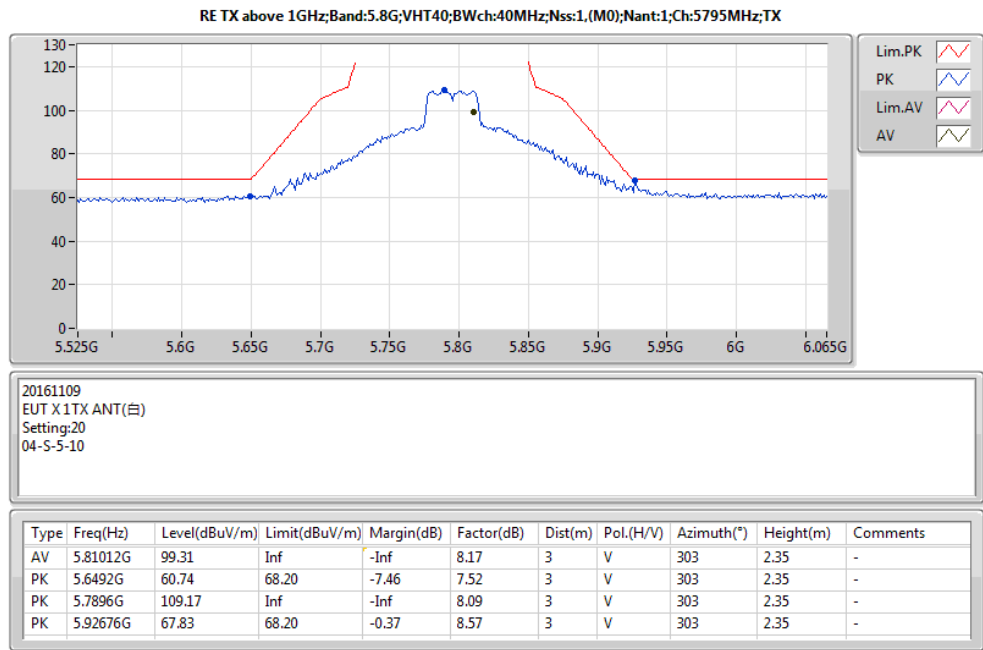
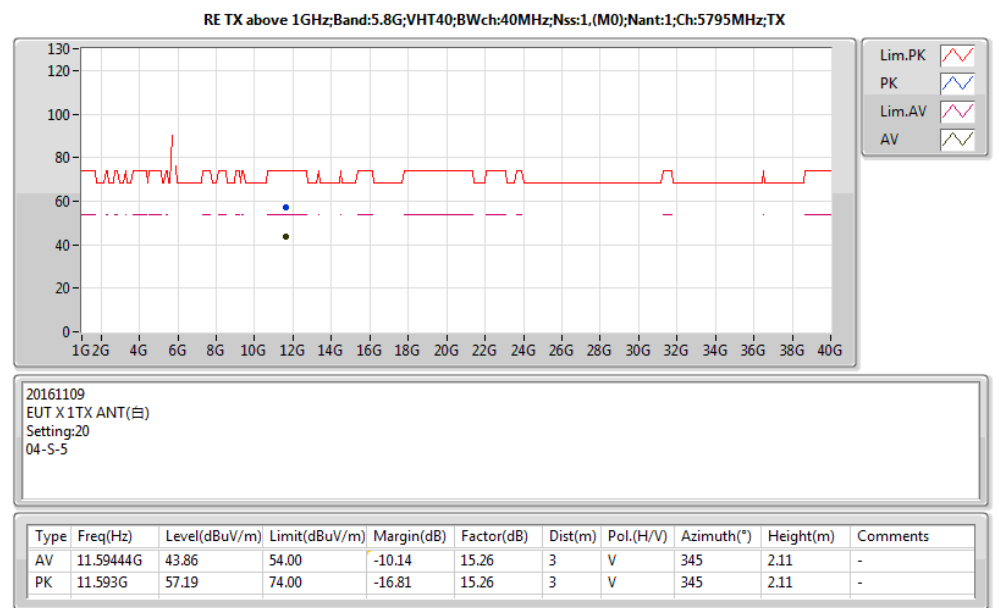
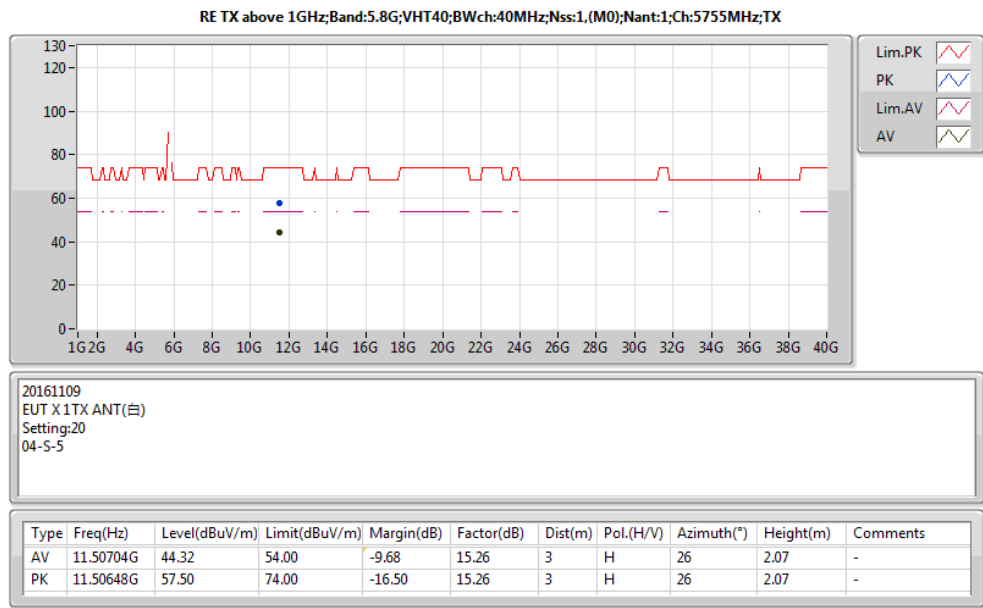
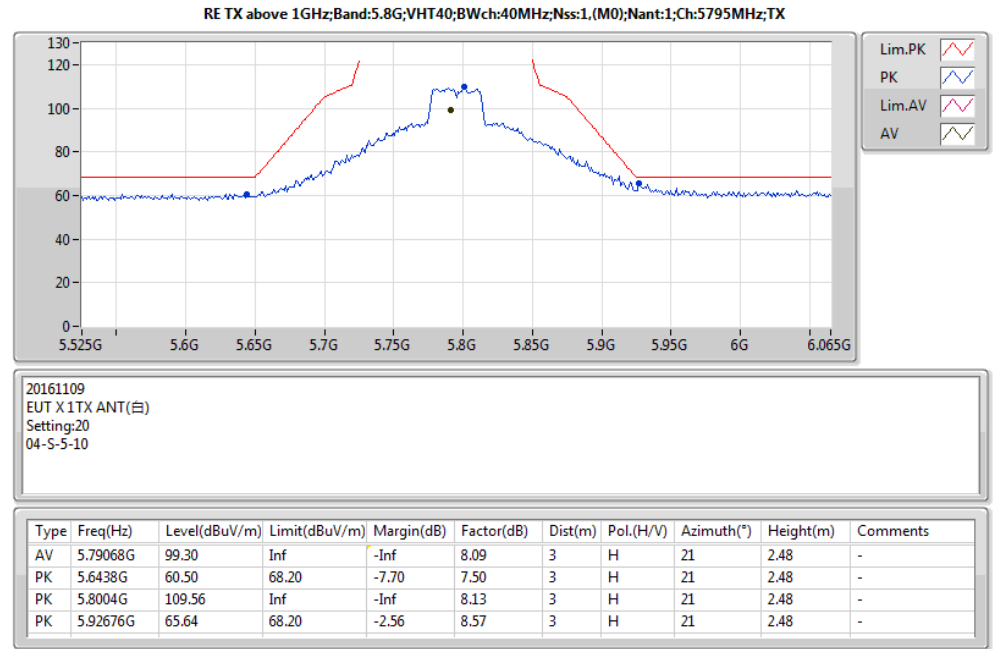
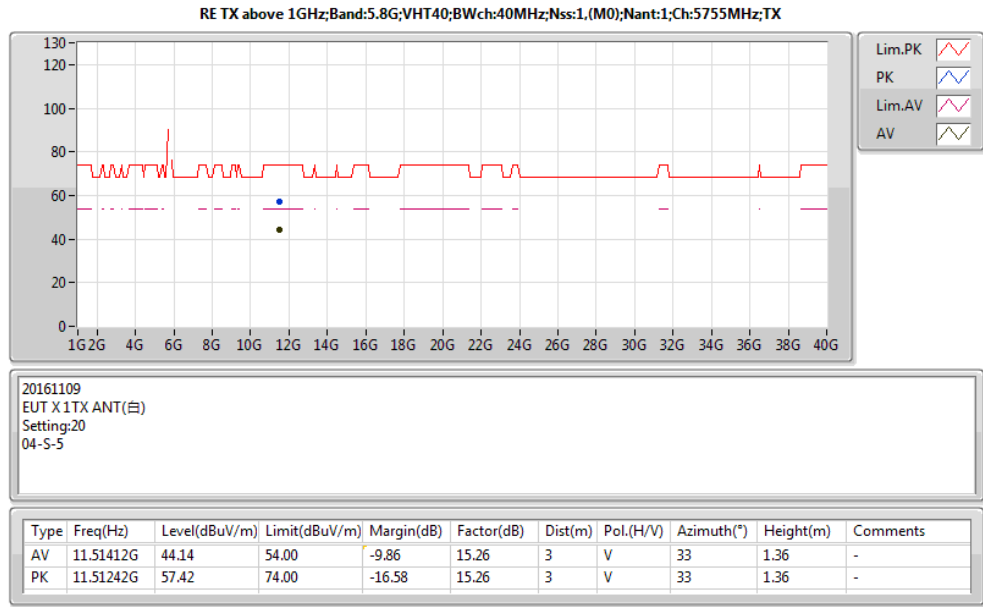


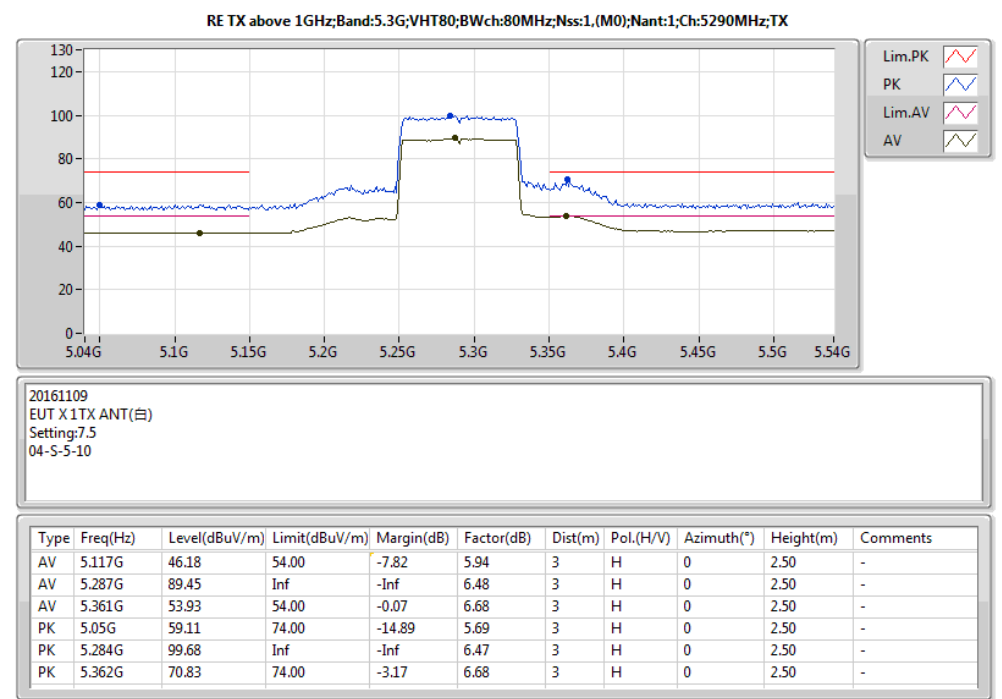
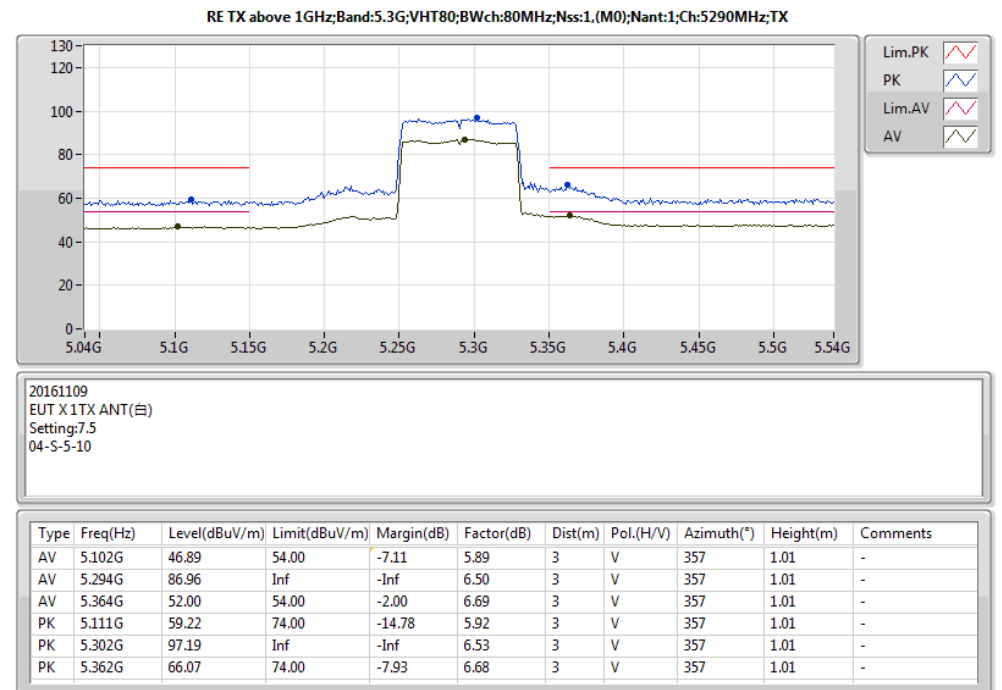
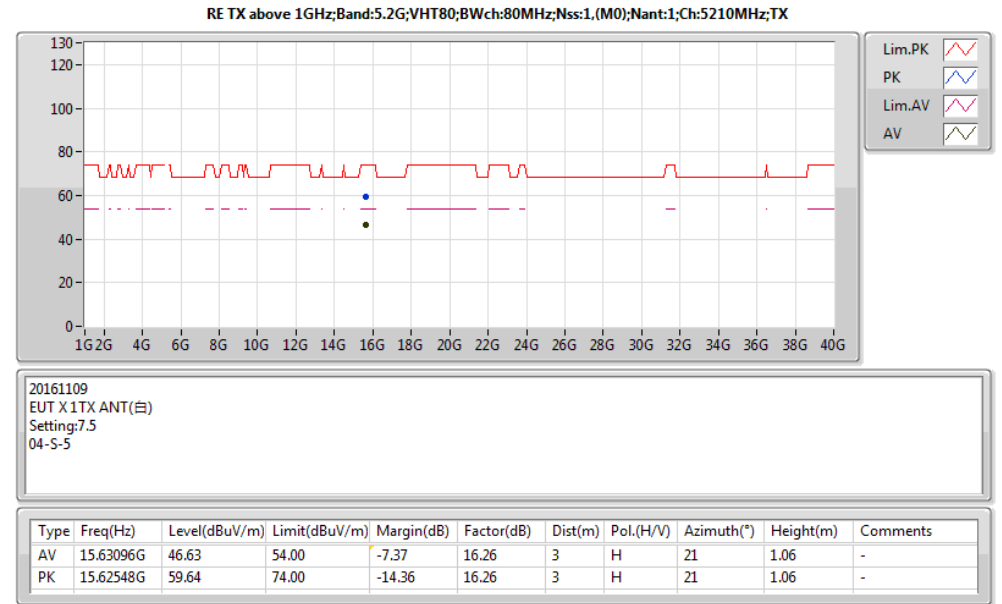
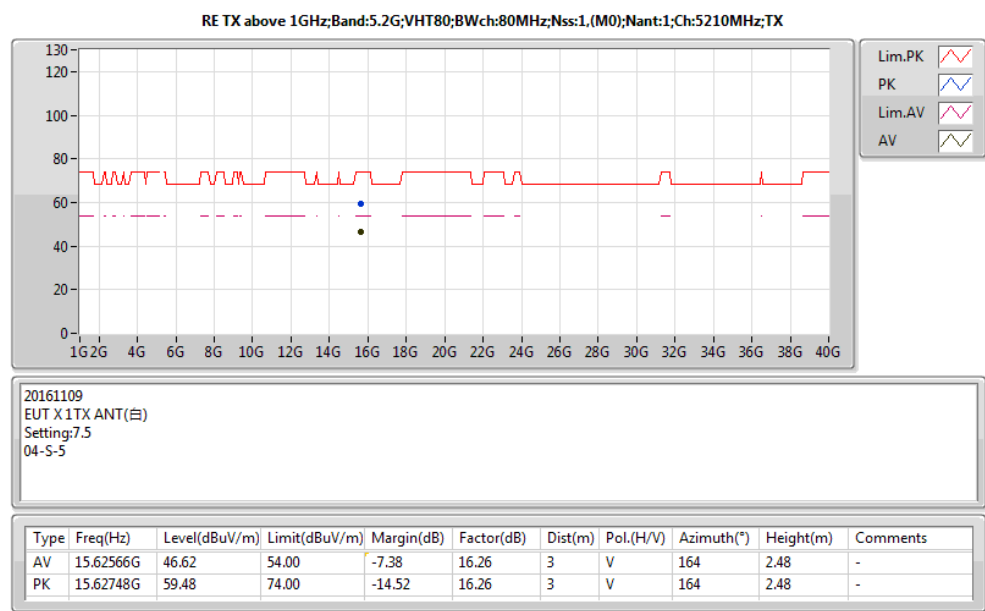
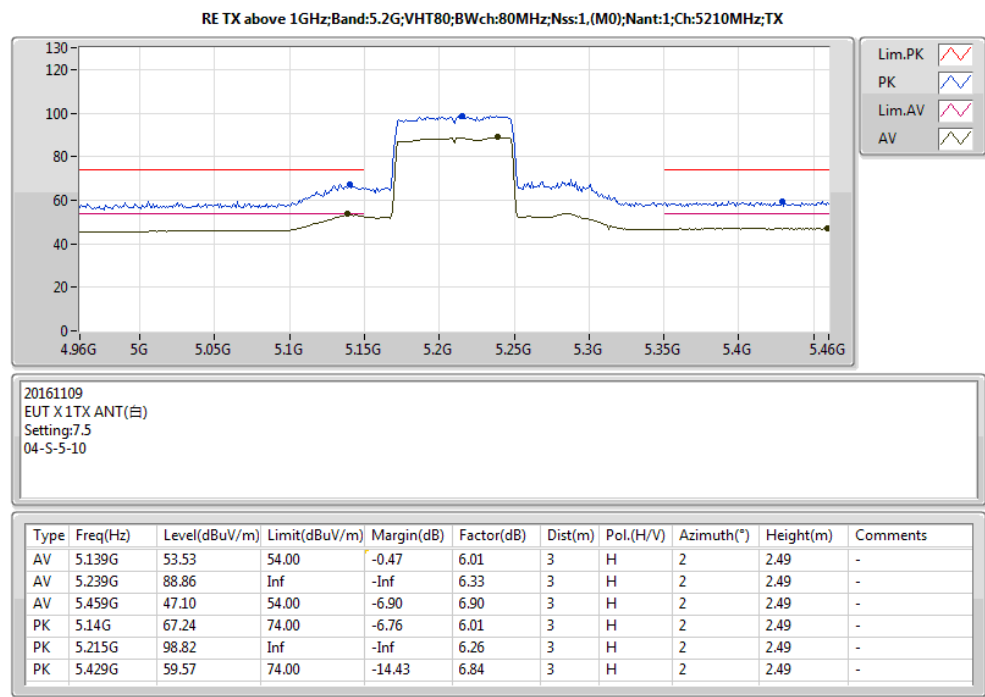
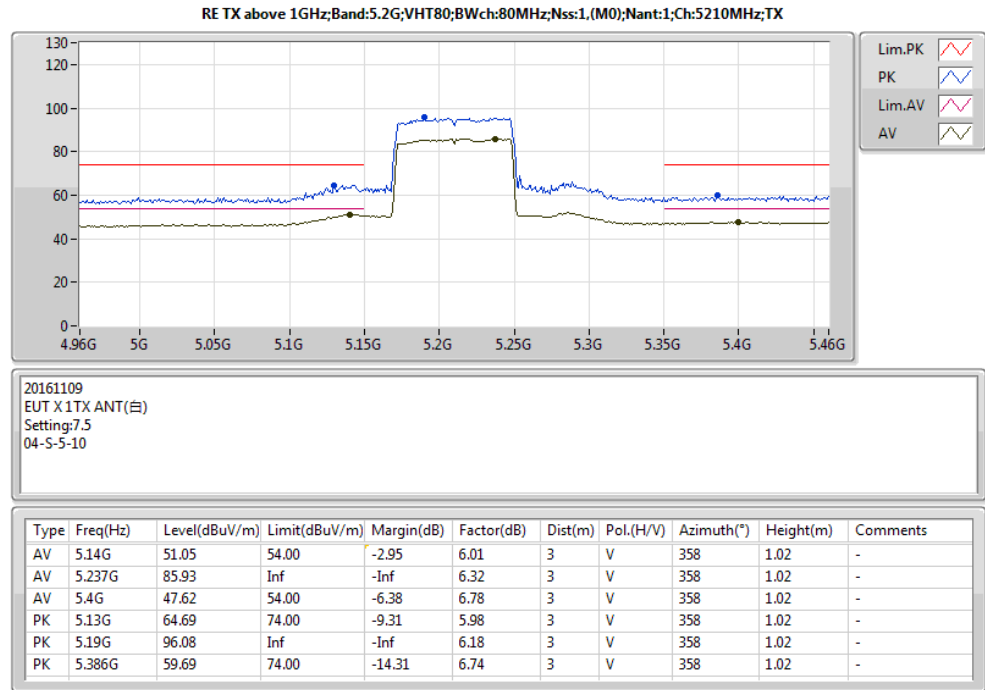


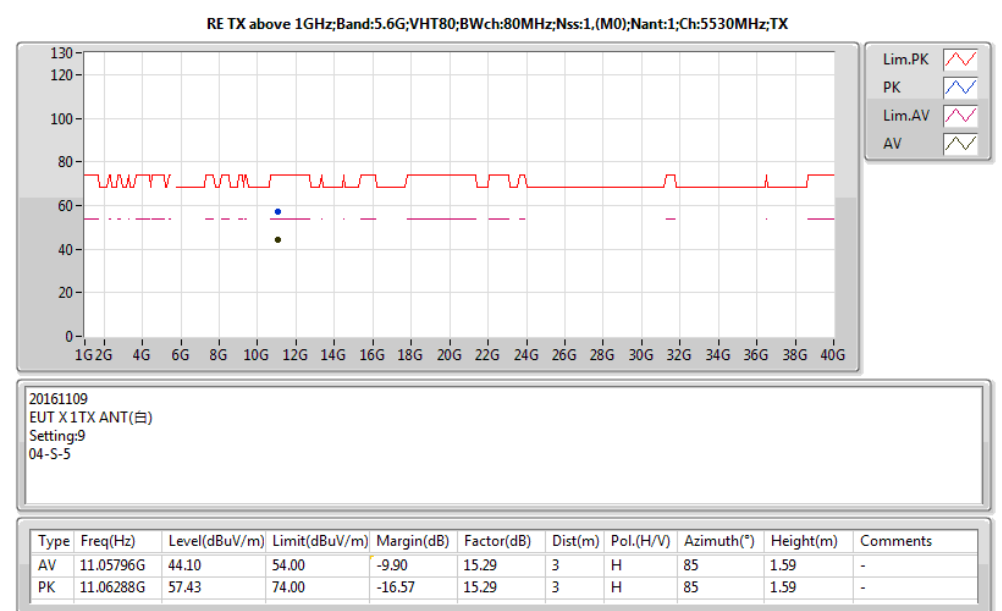
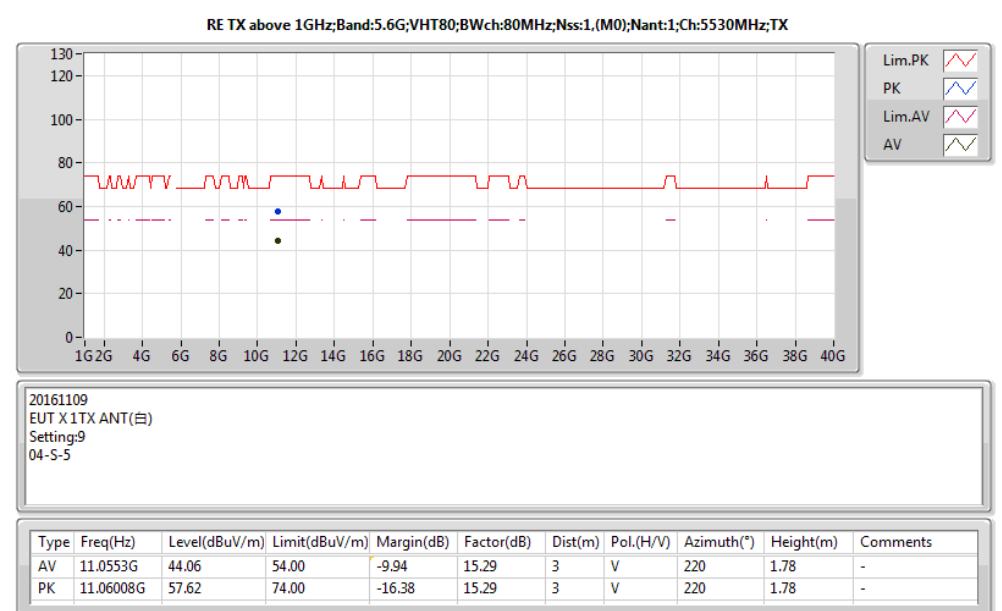
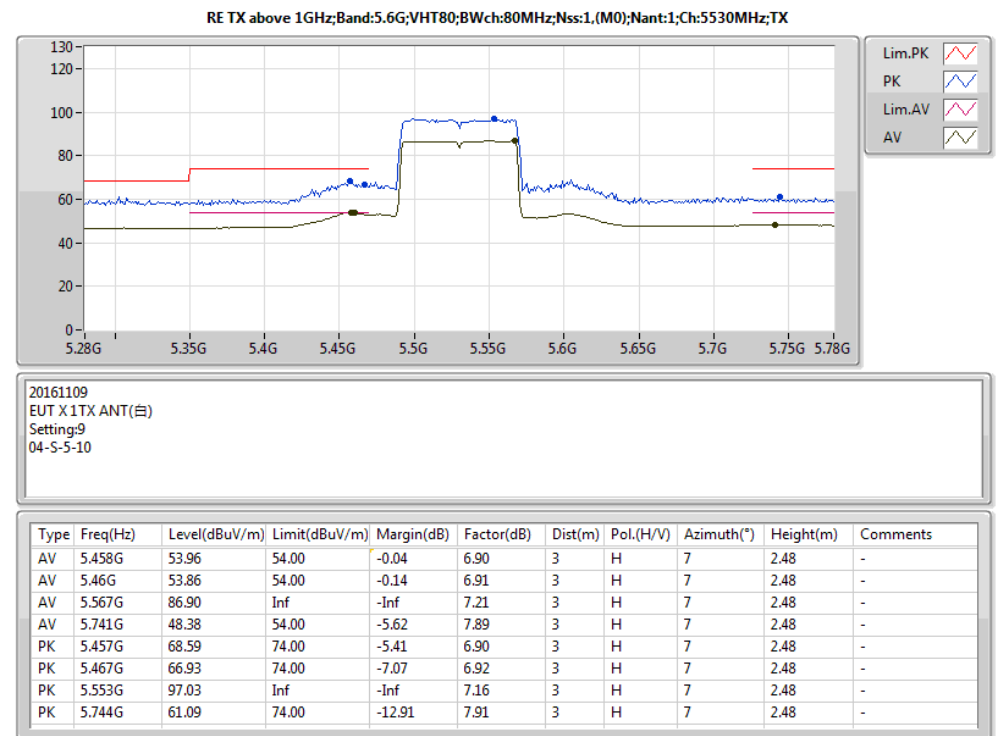
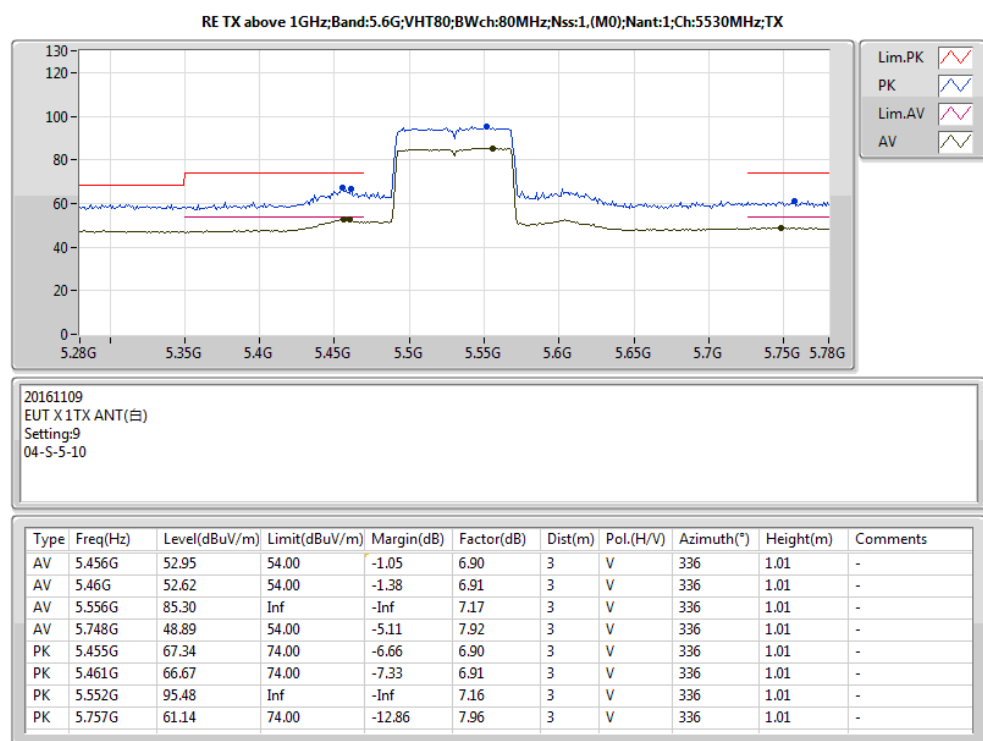
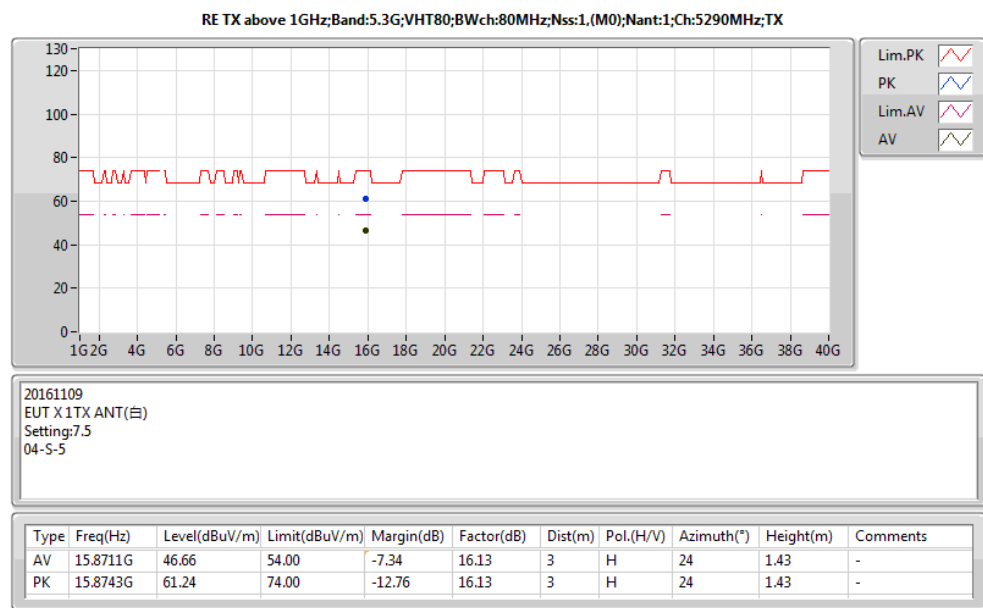
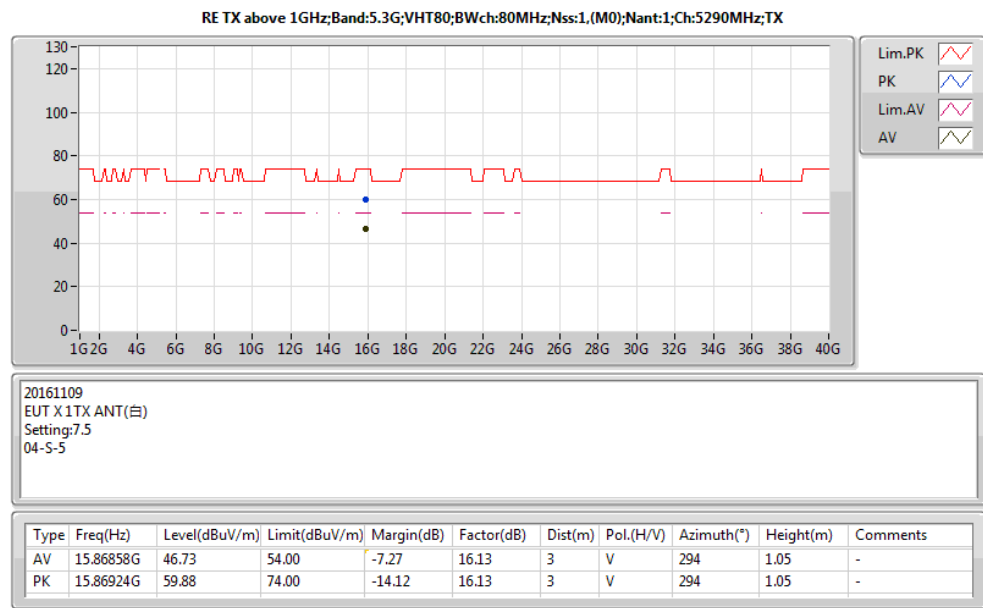


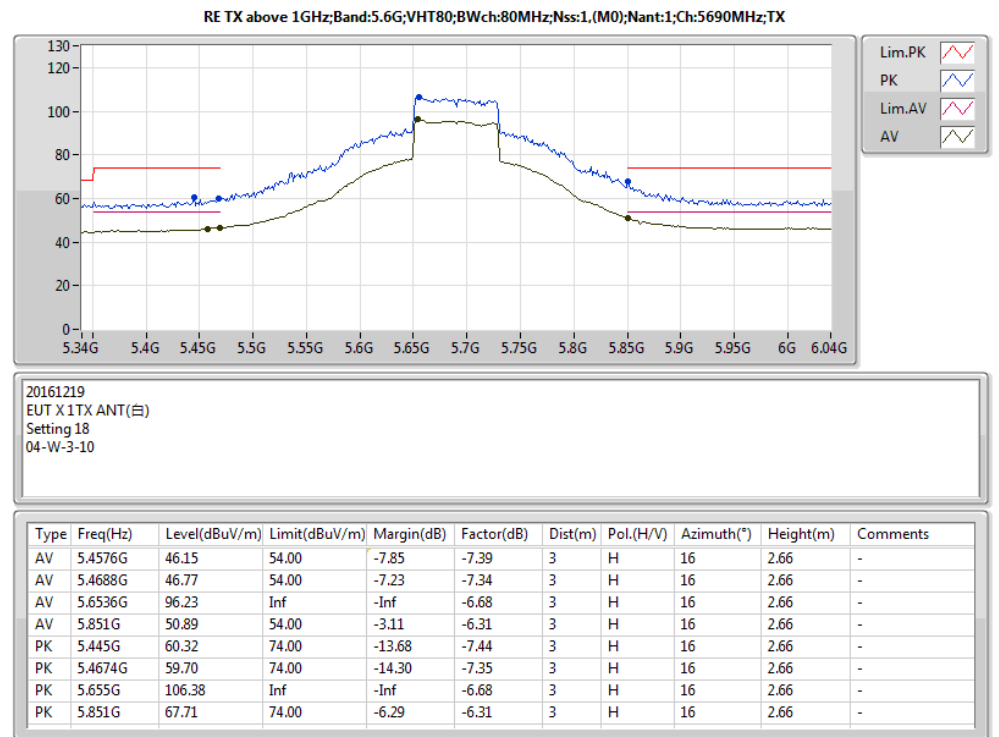
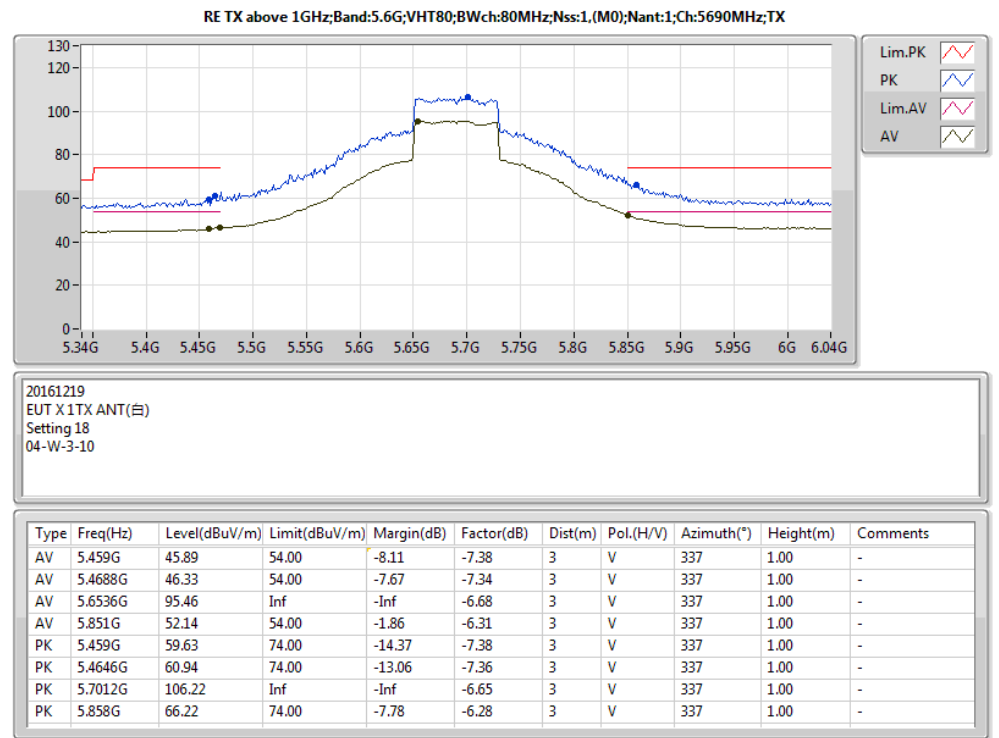
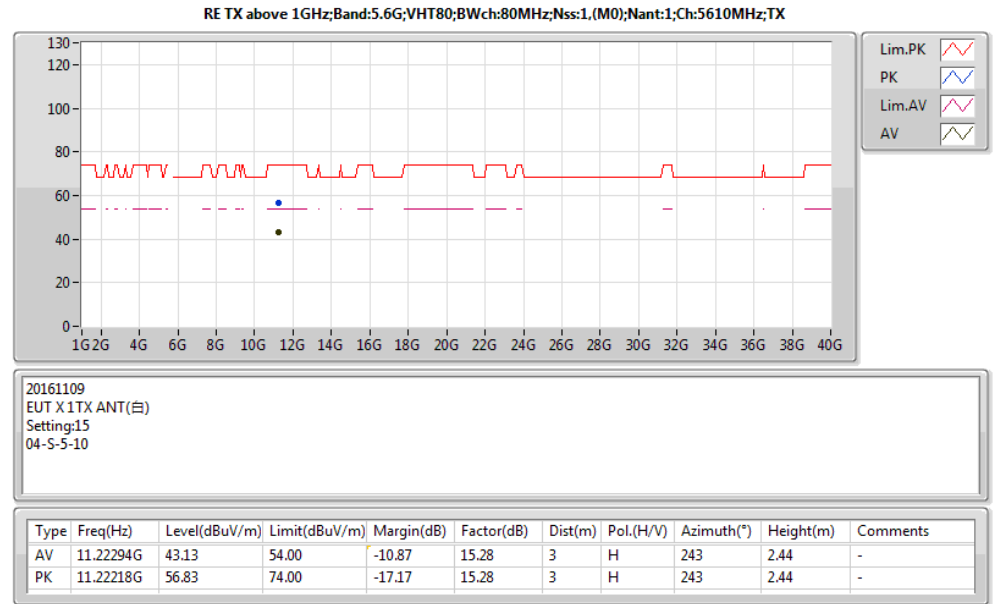
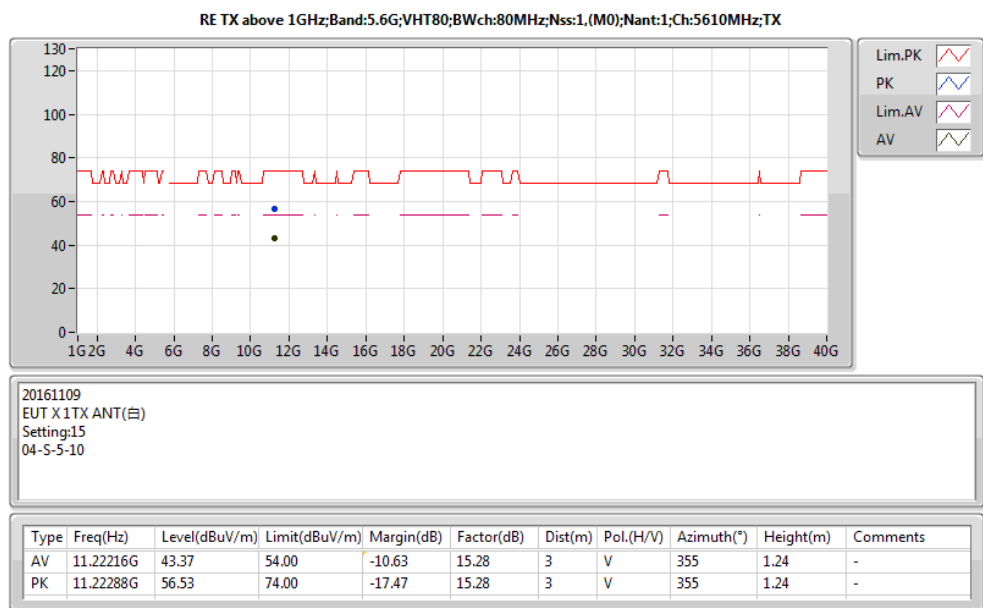
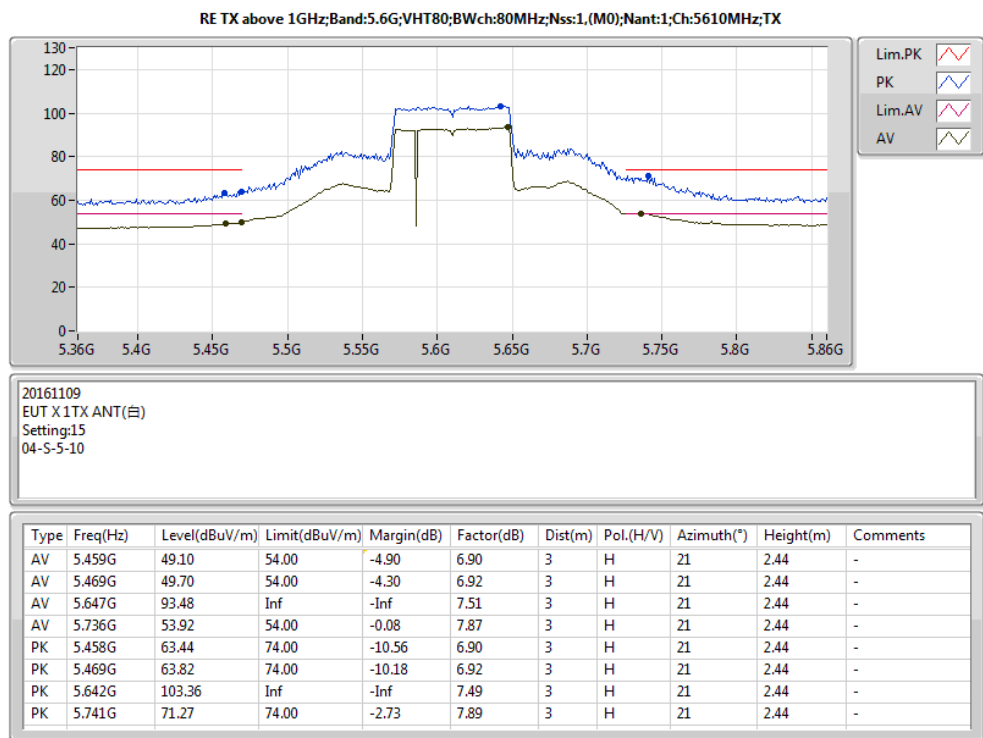
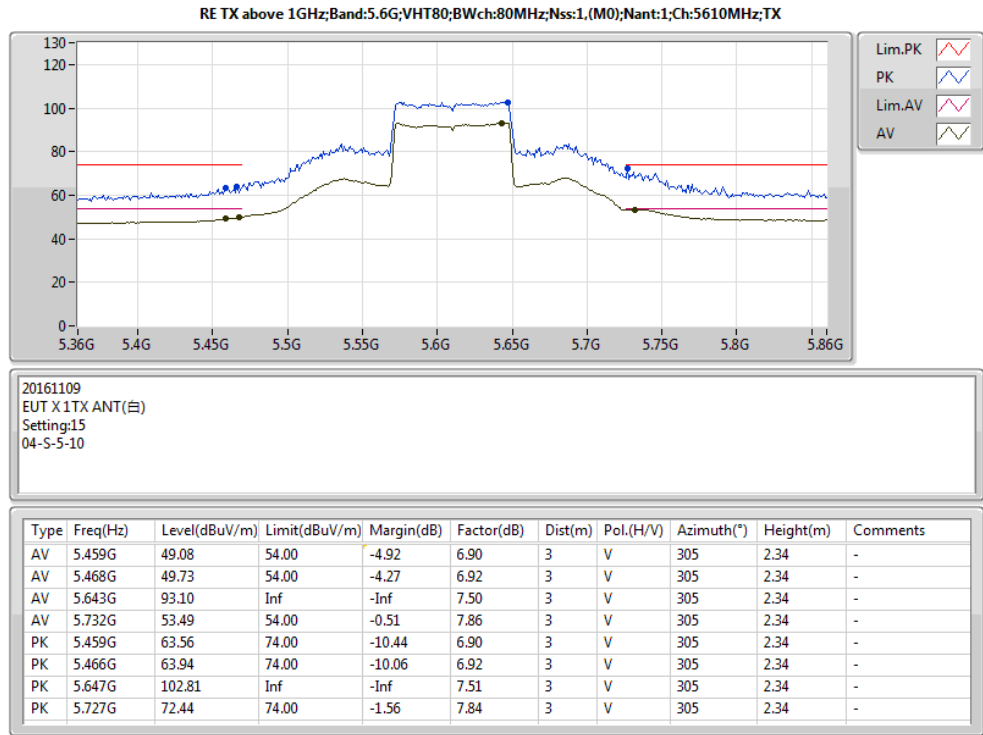


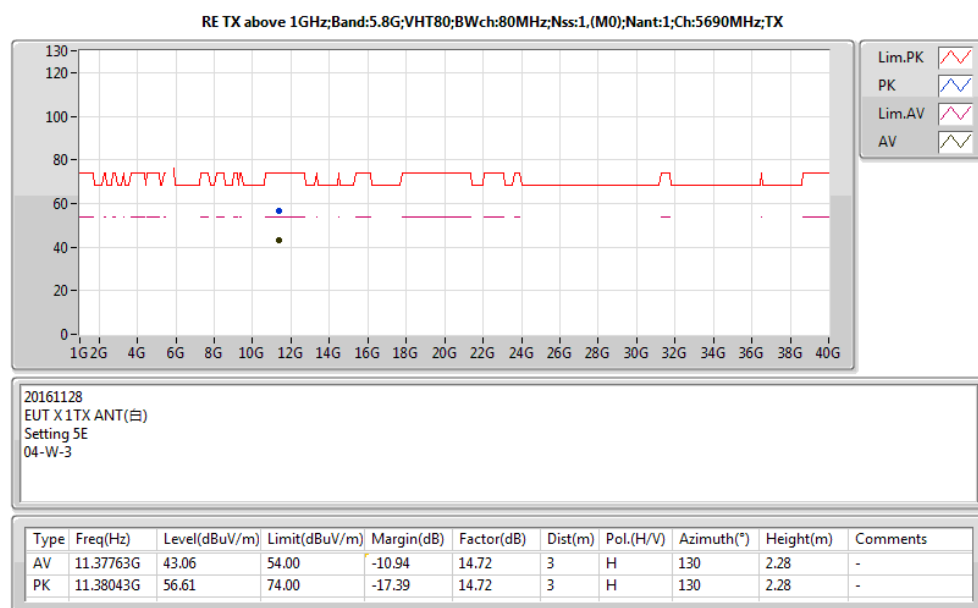
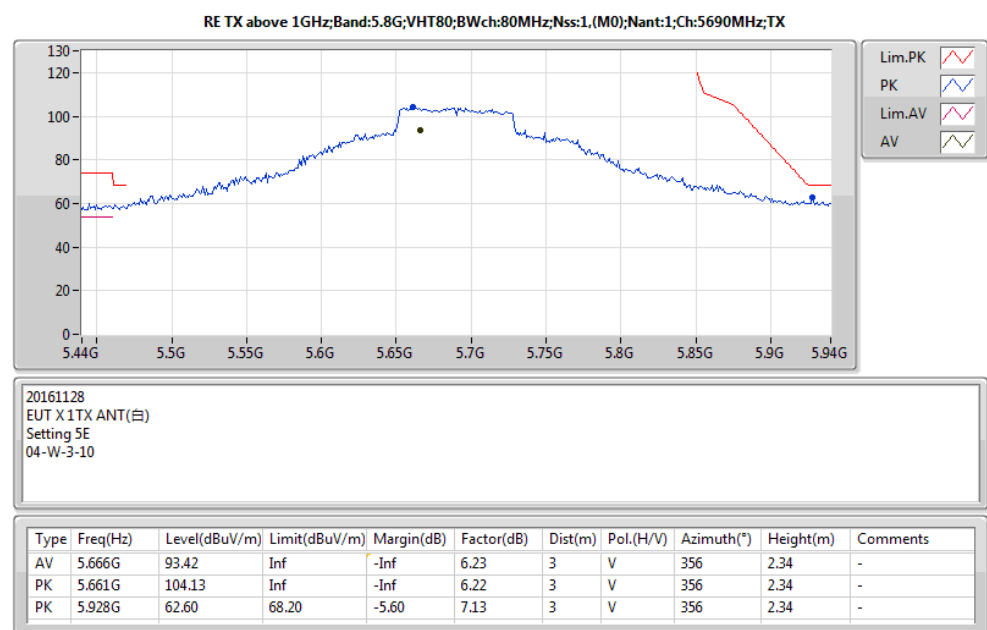
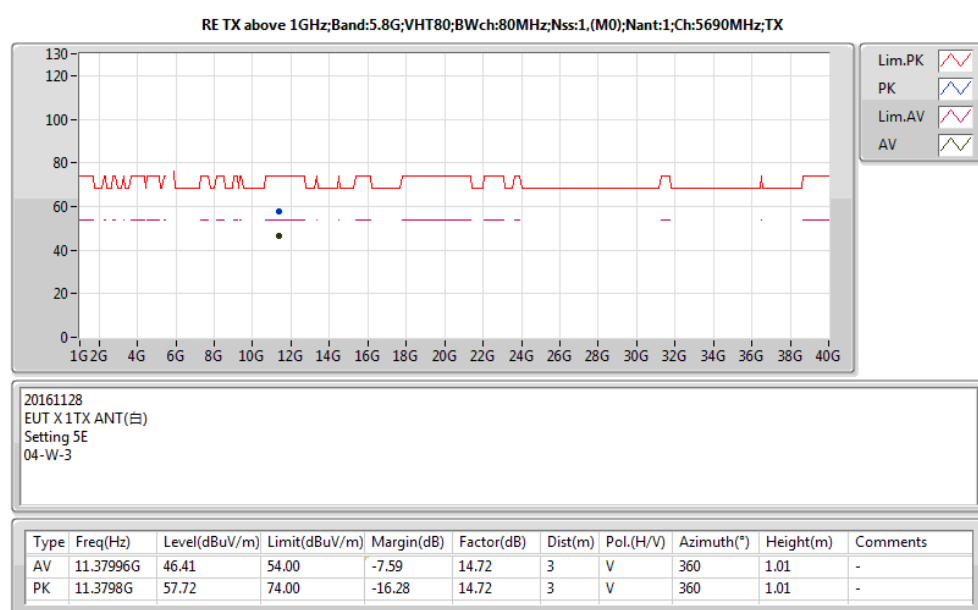
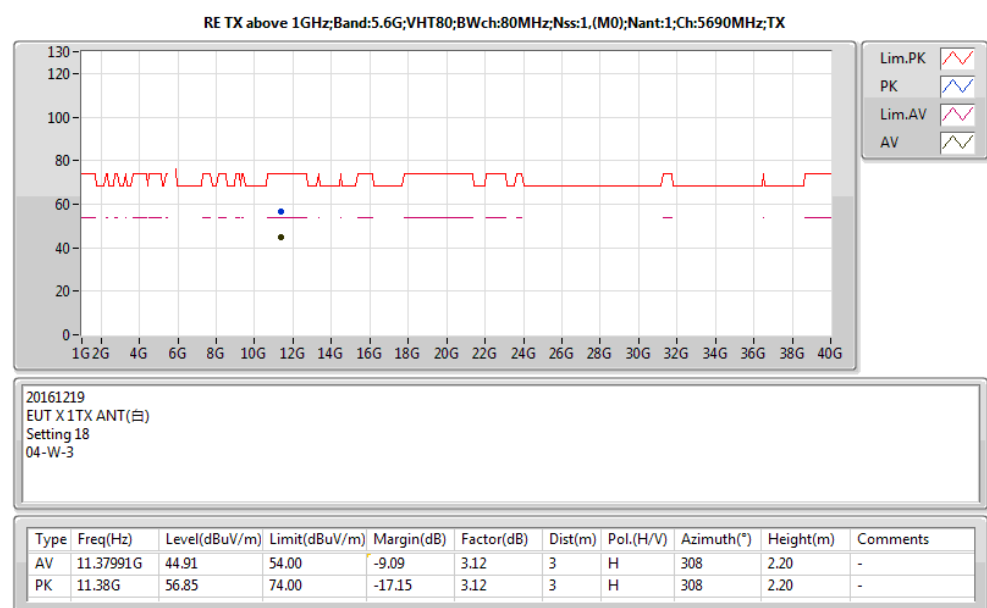
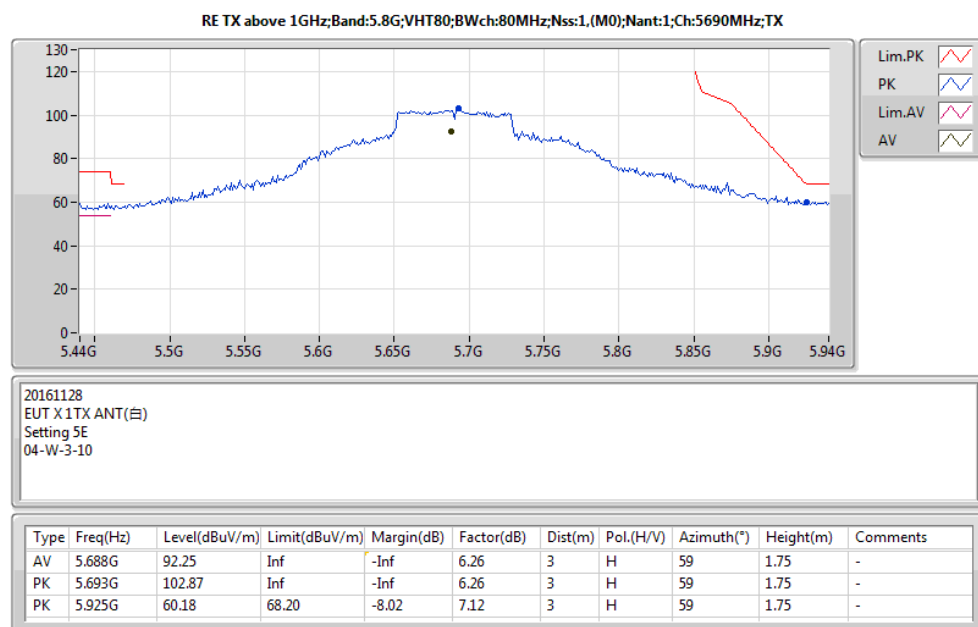
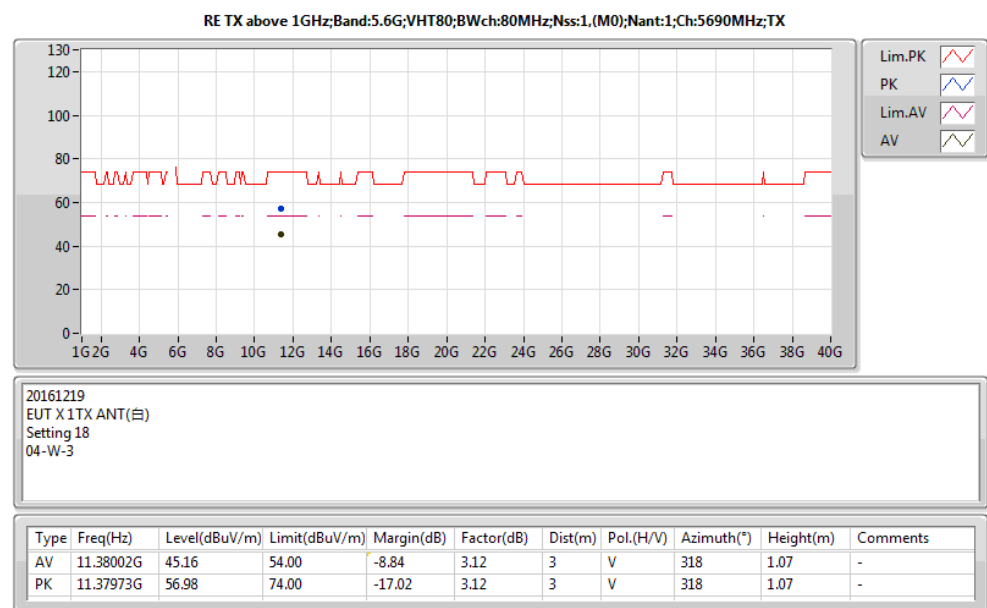


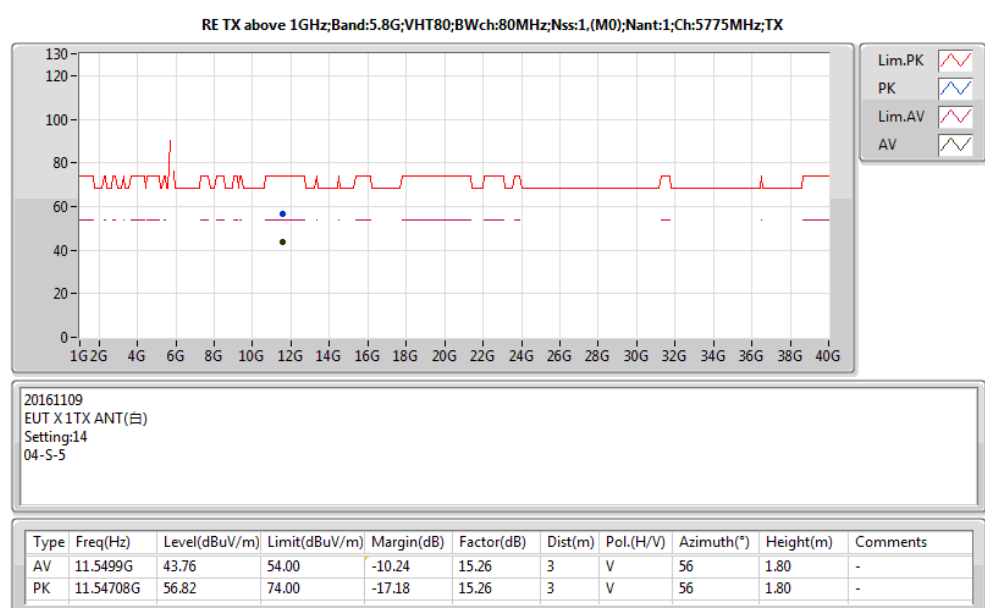
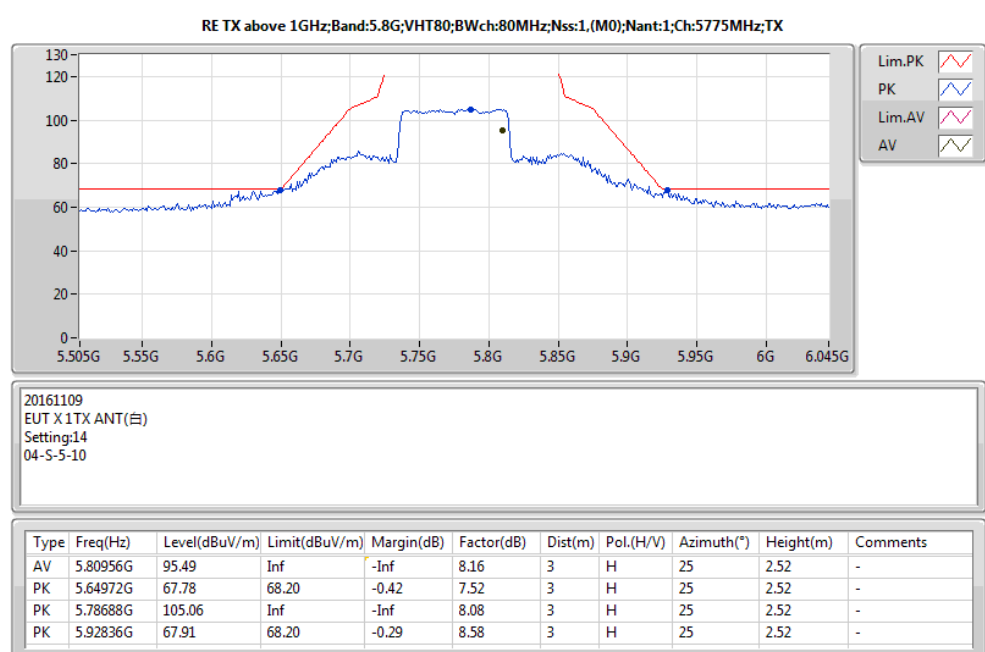
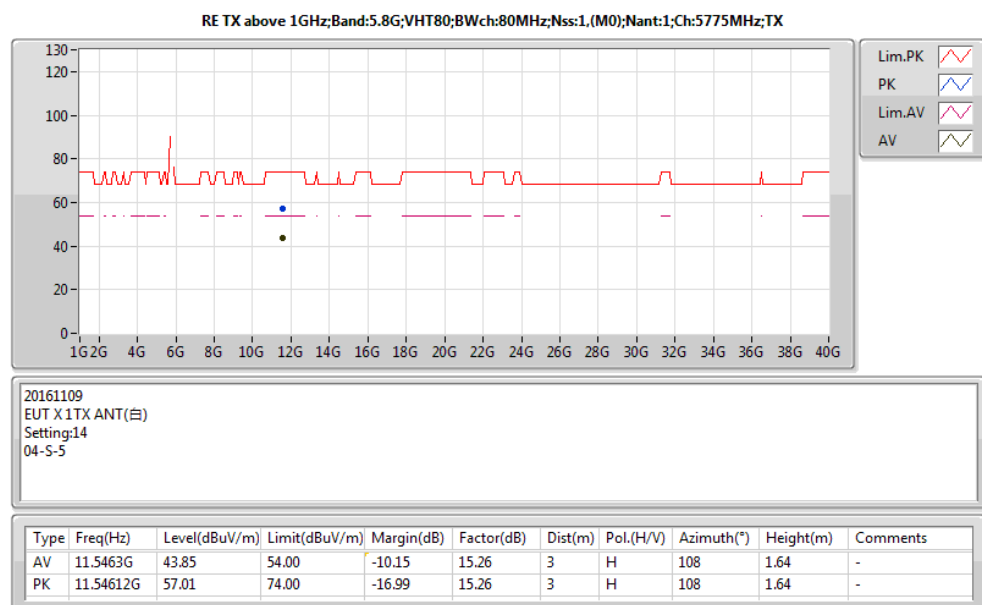
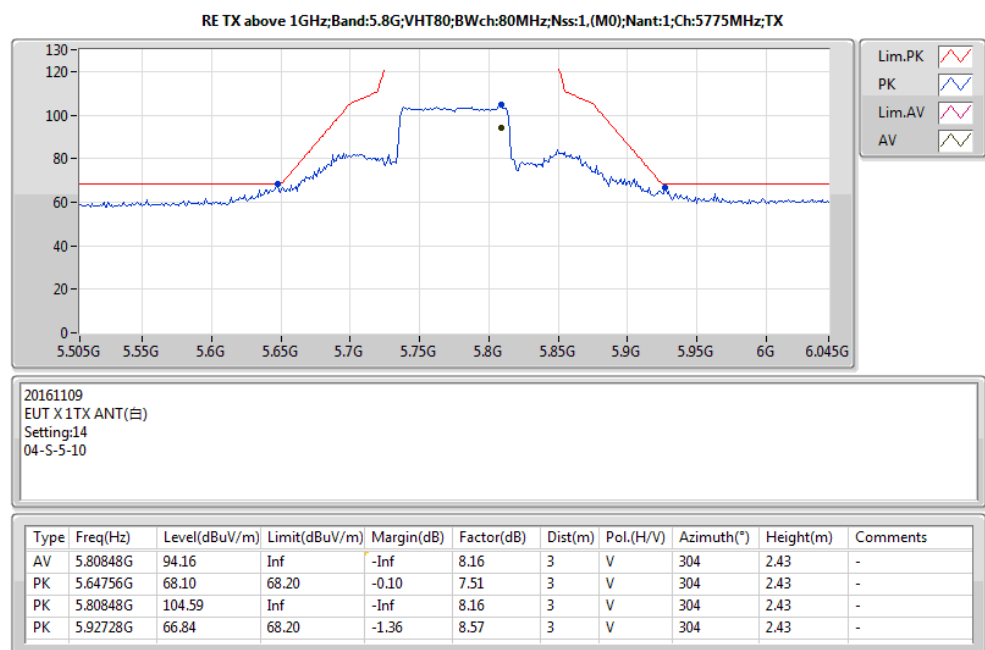












Mode: 20 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9921	5199.9920	5199.9914	5199.9912
110.00	5199.9917	5199.9914	5199.9906	5199.9900
93.50	5199.9908	5199.9906	5199.9901	5199.9893
Max. Deviation (MHz)	0.0092	0.0094	0.0099	0.0107
Max. Deviation (ppm)	1.77	1.81	1.90	2.06
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5199.9828	5199.9826	5199.9818	5199.9810
-30	5199.9955	5199.9954	5199.9952	5199.9943
-20	5199.9951	5199.9949	5199.9940	5199.9937
-10	5199.9944	5199.9941	5199.9938	5199.9928
0	5199.9931	5199.9926	5199.9919	5199.9912
10	5199.9926	5199.9925	5199.9917	5199.9911
20	5199.9917	5199.9914	5199.9912	5199.9904
30	5199.9882	5199.9874	5199.9870	5199.9868
40	5199.9866	5199.9864	5199.9862	5199.9858
50	5199.9853	5199.9843	5199.9836	5199.9833
60	5199.9870	5199.9868	5199.9860	5199.9858
70	5199.9995	5199.9994	5199.9984	5199.9983
80	5200.0005	5199.9999	5199.9998	5199.9996
85	5200.0008	5200.0004	5199.9998	5199.9997
Max. Deviation (MHz)	0.0172	0.0174	0.0182	0.0190
Max. Deviation (ppm)	3.31	3.35	3.50	3.65
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9925	5299.9915	5299.9907	5299.9897
110.00	5299.9917	5299.9914	5299.9904	5299.9900
93.50	5299.9910	5299.9907	5299.9898	5299.9892
Max. Deviation (MHz)	0.0090	0.0093	0.0102	0.0108
Max. Deviation (ppm)	1.70	1.75	1.92	2.04
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5299.9828	5299.9823	5299.9818	5299.9812
-30	5299.9969	5299.9964	5299.9955	5299.9952
-20	5299.9959	5299.9958	5299.9953	5299.9950
-10	5299.9951	5299.9941	5299.9936	5299.9929
0	5299.9946	5299.9945	5299.9937	5299.9932
10	5299.9932	5299.9931	5299.9921	5299.9917
20	5299.9917	5299.9907	5299.9906	5299.9901
30	5299.9882	5299.9875	5299.9872	5299.9870
40	5299.9876	5299.9874	5299.9873	5299.9870
50	5299.9873	5299.9869	5299.9861	5299.9857
60	5299.9870	5299.9863	5299.9861	5299.9852
70	5299.9995	5299.9987	5299.9978	5299.9974
80	5300.0000	5299.9992	5299.9984	5299.9979
85	5300.0012	5300.0005	5300.0000	5299.9993
Max. Deviation (MHz)	0.0172	0.0177	0.0182	0.0188
Max. Deviation (ppm)	3.25	3.34	3.43	3.55
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9927	5579.9919	5579.9910	5579.9905
110.00	5579.9917	5579.9914	5579.9912	5579.9905
93.50	5579.9913	5579.9911	5579.9902	5579.9901
Max. Deviation (MHz)	0.0087	0.0089	0.0098	0.0099
Max. Deviation (ppm)	1.56	1.59	1.76	1.77
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5579.9827	5579.9820	5579.9812	5579.9810
-30	5579.9970	5579.9965	5579.9957	5579.9954
-20	5579.9955	5579.9948	5579.9939	5579.9936
-10	5579.9949	5579.9942	5579.9934	5579.9933
0	5579.9936	5579.9927	5579.9923	5579.9914
10	5579.9929	5579.9928	5579.9923	5579.9920
20	5579.9917	5579.9916	5579.9906	5579.9897
30	5579.9882	5579.9881	5579.9872	5579.9870
40	5579.9862	5579.9860	5579.9859	5579.9857
50	5579.9851	5579.9846	5579.9839	5579.9833
60	5579.9870	5579.9861	5579.9851	5579.9846
70	5579.9995	5579.9988	5579.9981	5579.9979
80	5580.0000	5579.9997	5579.9995	5579.9994
85	5580.0007	5579.9998	5579.9991	5579.9982
Max. Deviation (MHz)	0.0173	0.0180	0.0188	0.0190
Max. Deviation (ppm)	3.10	3.23	3.37	3.41
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9919	5784.9913	5784.9909	5784.9900
110.00	5784.9917	5784.9909	5784.9904	5784.9901
93.50	5784.9912	5784.9910	5784.9907	5784.9902
Max. Deviation (MHz)	0.0088	0.0091	0.0096	0.0100
Max. Deviation (ppm)	1.52	1.57	1.66	1.73
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5784.9831	5784.9822	5784.9815	5784.9812
-30	5784.9963	5784.9955	5784.9947	5784.9941
-20	5784.9947	5784.9940	5784.9939	5784.9933
-10	5784.9939	5784.9932	5784.9925	5784.9918
0	5784.9936	5784.9933	5784.9924	5784.9921
10	5784.9928	5784.9927	5784.9921	5784.9911
20	5784.9917	5784.9912	5784.9910	5784.9902
30	5784.9882	5784.9877	5784.9869	5784.9859
40	5784.9881	5784.9872	5784.9864	5784.9863
50	5784.9878	5784.9872	5784.9869	5784.9866
60	5784.9870	5784.9862	5784.9860	5784.9857
70	5784.9995	5784.9994	5784.9988	5784.9986
80	5785.0000	5784.9997	5784.9996	5784.9987
85	5785.0018	5785.0016	5785.0012	5785.0002
Max. Deviation (MHz)	0.0169	0.0178	0.0185	0.0188
Max. Deviation (ppm)	2.92	3.08	3.20	3.25
Result	Pass			



Mode: 40 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9922	5189.9920	5189.9914	5189.9909
110.00	5189.9917	5189.9911	5189.9908	5189.9904
93.50	5189.9910	5189.9903	5189.9895	5189.9891
Max. Deviation (MHz)	0.0090	0.0097	0.0105	0.0109
Max. Deviation (ppm)	1.73	1.87	2.02	2.10
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5189.9816	5189.9813	5189.9804	5189.9797
-30	5189.9966	5189.9958	5189.9956	5189.9950
-20	5189.9960	5189.9955	5189.9952	5189.9949
-10	5189.9940	5189.9935	5189.9933	5189.9928
0	5189.9928	5189.9920	5189.9914	5189.9904
10	5189.9919	5189.9913	5189.9904	5189.9899
20	5189.9917	5189.9912	5189.9903	5189.9902
30	5189.9882	5189.9874	5189.9867	5189.9858
40	5189.9879	5189.9876	5189.9869	5189.9861
50	5189.9873	5189.9871	5189.9870	5189.9860
60	5189.9870	5189.9861	5189.9858	5189.9853
70	5189.9995	5189.9988	5189.9979	5189.9975
80	5189.9996	5189.9988	5189.9980	5189.9977
85	5190.0002	5189.9997	5189.9988	5189.9979
Max. Deviation (MHz)	0.0184	0.0187	0.0196	0.0203
Max. Deviation (ppm)	3.55	3.60	3.78	3.91
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9922	5309.9913	5309.9910	5309.9905
110.00	5309.9917	5309.9911	5309.9908	5309.9899
93.50	5309.9908	5309.9899	5309.9891	5309.9889
Max. Deviation (MHz)	0.0092	0.0101	0.0109	0.0111
Max. Deviation (ppm)	1.73	1.90	2.05	2.09
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5309.9799	5309.9790	5309.9789	5309.9780
-30	5309.9983	5309.9979	5309.9978	5309.9971
-20	5309.9964	5309.9958	5309.9954	5309.9953
-10	5309.9956	5309.9948	5309.9939	5309.9929
0	5309.9945	5309.9940	5309.9931	5309.9927
10	5309.9925	5309.9915	5309.9905	5309.9895
20	5309.9917	5309.9910	5309.9908	5309.9905
30	5309.9882	5309.9875	5309.9865	5309.9863
40	5309.9866	5309.9861	5309.9860	5309.9854
50	5309.9861	5309.9855	5309.9852	5309.9847
60	5309.9870	5309.9860	5309.9852	5309.9848
70	5309.9995	5309.9992	5309.9983	5309.9981
80	5310.0009	5310.0005	5310.0004	5309.9994
85	5310.0025	5310.0016	5310.0010	5310.0007
Max. Deviation (MHz)	0.0201	0.0210	0.0211	0.0220
Max. Deviation (ppm)	3.79	3.95	3.97	4.14
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5549.9924	5549.9915	5549.9912	5549.9906
110.00	5549.9917	5549.9909	5549.9906	5549.9897
93.50	5549.9916	5549.9914	5549.9906	5549.9900
Max. Deviation (MHz)	0.0084	0.0091	0.0094	0.0103
Max. Deviation (ppm)	1.51	1.64	1.69	1.86
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5549.9820	5549.9810	5549.9809	5549.9808
-30	5549.9961	5549.9954	5549.9945	5549.9942
-20	5549.9949	5549.9947	5549.9945	5549.9943
-10	5549.9936	5549.9927	5549.9925	5549.9917
0	5549.9931	5549.9930	5549.9921	5549.9919
10	5549.9922	5549.9916	5549.9910	5549.9901
20	5549.9917	5549.9907	5549.9903	5549.9898
30	5549.9882	5549.9880	5549.9873	5549.9866
40	5549.9865	5549.9858	5549.9853	5549.9850
50	5549.9851	5549.9850	5549.9844	5549.9843
60	5549.9870	5549.9869	5549.9859	5549.9857
70	5549.9995	5549.9994	5549.9993	5549.9989
80	5550.0006	5550.0000	5549.9998	5549.9988
85	5550.0008	5550.0002	5549.9996	5549.9986
Max. Deviation (MHz)	0.0180	0.0190	0.0191	0.0192
Max. Deviation (ppm)	3.24	3.42	3.44	3.46
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9922	5754.9920	5754.9918	5754.9915
110.00	5754.9917	5754.9907	5754.9903	5754.9894
93.50	5754.9914	5754.9909	5754.9906	5754.9898
Max. Deviation (MHz)	0.0086	0.0093	0.0097	0.0106
Max. Deviation (ppm)	1.49	1.62	1.69	1.84
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5754.9814	5754.9813	5754.9810	5754.9803
-30	5754.9982	5754.9975	5754.9973	5754.9967
-20	5754.9964	5754.9961	5754.9952	5754.9947
-10	5754.9951	5754.9941	5754.9935	5754.9928
0	5754.9948	5754.9947	5754.9946	5754.9936
10	5754.9931	5754.9928	5754.9925	5754.9919
20	5754.9917	5754.9912	5754.9910	5754.9902
30	5754.9882	5754.9875	5754.9865	5754.9860
40	5754.9879	5754.9871	5754.9870	5754.9866
50	5754.9878	5754.9869	5754.9863	5754.9862
60	5754.9870	5754.9862	5754.9861	5754.9857
70	5754.9995	5754.9987	5754.9977	5754.9974
80	5755.0005	5755.0001	5754.9991	5754.9990
85	5755.0018	5755.0017	5755.0014	5755.0009
Max. Deviation (MHz)	0.0186	0.0187	0.0190	0.0197
Max. Deviation (ppm)	3.23	3.25	3.30	3.42
Result	Pass			



Mode: 80 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9919	5209.9912	5209.9905	5209.9903
110.00	5209.9917	5209.9910	5209.9906	5209.9900
93.50	5209.9911	5209.9904	5209.9899	5209.9891
Max. Deviation (MHz)	0.0089	0.0096	0.0101	0.0109
Max. Deviation (ppm)	1.71	1.84	1.94	2.09
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5209.9785	5209.9784	5209.9782	5209.9775
-30	5209.9998	5209.9988	5209.9984	5209.9981
-20	5209.9980	5209.9978	5209.9977	5209.9969
-10	5209.9960	5209.9957	5209.9954	5209.9946
0	5209.9950	5209.9943	5209.9937	5209.9929
10	5209.9930	5209.9929	5209.9923	5209.9914
20	5209.9917	5209.9912	5209.9910	5209.9902
30	5209.9882	5209.9876	5209.9872	5209.9869
40	5209.9873	5209.9865	5209.9856	5209.9855
50	5209.9864	5209.9863	5209.9860	5209.9852
60	5209.9870	5209.9861	5209.9852	5209.9847
70	5209.9995	5209.9994	5209.9991	5209.9987
80	5210.0011	5210.0005	5210.0001	5209.9998
85	5210.0015	5210.0013	5210.0012	5210.0007
Max. Deviation (MHz)	0.0215	0.0216	0.0218	0.0225
Max. Deviation (ppm)	4.13	4.15	4.18	4.32
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5289.9925	5289.9917	5289.9914	5289.9913
110.00	5289.9917	5289.9911	5289.9901	5289.9899
93.50	5289.9908	5289.9899	5289.9894	5289.9892
Max. Deviation (MHz)	0.0092	0.0101	0.0106	0.0108
Max. Deviation (ppm)	1.74	1.91	2.00	2.04
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5289.9797	5289.9793	5289.9789	5289.9783
-30	5289.9954	5289.9953	5289.9947	5289.9940
-20	5289.9945	5289.9936	5289.9927	5289.9920
-10	5289.9940	5289.9934	5289.9932	5289.9924
0	5289.9939	5289.9933	5289.9928	5289.9927
10	5289.9920	5289.9913	5289.9905	5289.9900
20	5289.9917	5289.9914	5289.9907	5289.9897
30	5289.9882	5289.9880	5289.9879	5289.9875
40	5289.9881	5289.9880	5289.9875	5289.9874
50	5289.9878	5289.9872	5289.9871	5289.9862
60	5289.9870	5289.9867	5289.9863	5289.9854
70	5289.9995	5289.9994	5289.9986	5289.9979
80	5290.0008	5290.0006	5290.0005	5289.9999
85	5290.0017	5290.0007	5290.0005	5289.9999
Max. Deviation (MHz)	0.0203	0.0207	0.0211	0.0217
Max. Deviation (ppm)	3.84	3.91	3.99	4.10
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5529.9923	5529.9916	5529.9908	5529.9907
110.00	5529.9917	5529.9916	5529.9908	5529.9899
93.50	5529.9911	5529.9905	5529.9898	5529.9890
Max. Deviation (MHz)	0.0089	0.0095	0.0102	0.0110
Max. Deviation (ppm)	1.61	1.72	1.84	1.99
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5529.9809	5529.9799	5529.9793	5529.9784
-30	5529.9975	5529.9967	5529.9960	5529.9953
-20	5529.9965	5529.9957	5529.9948	5529.9946
-10	5529.9952	5529.9949	5529.9947	5529.9941
0	5529.9943	5529.9936	5529.9935	5529.9934
10	5529.9937	5529.9930	5529.9922	5529.9914
20	5529.9917	5529.9916	5529.9908	5529.9904
30	5529.9882	5529.9876	5529.9870	5529.9863
40	5529.9866	5529.9863	5529.9857	5529.9856
50	5529.9853	5529.9852	5529.9849	5529.9840
60	5529.9870	5529.9860	5529.9857	5529.9856
70	5529.9995	5529.9990	5529.9986	5529.9976
80	5530.0014	5530.0008	5529.9998	5529.9990
85	5530.0017	5530.0008	5530.0002	5529.9995
Max. Deviation (MHz)	0.0191	0.0201	0.0207	0.0216
Max. Deviation (ppm)	3.45	3.63	3.74	3.91
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9925	5774.9920	5774.9917	5774.9913
110.00	5774.9917	5774.9907	5774.9900	5774.9894
93.50	5774.9910	5774.9905	5774.9903	5774.9902
Max. Deviation (MHz)	0.0090	0.0095	0.0100	0.0106
Max. Deviation (ppm)	1.56	1.65	1.73	1.84
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5774.9828	5774.9820	5774.9814	5774.9813
-30	5774.9974	5774.9964	5774.9958	5774.9950
-20	5774.9971	5774.9964	5774.9958	5774.9951
-10	5774.9951	5774.9943	5774.9940	5774.9932
0	5774.9947	5774.9943	5774.9937	5774.9931
10	5774.9931	5774.9928	5774.9919	5774.9915
20	5774.9917	5774.9911	5774.9902	5774.9896
30	5774.9882	5774.9874	5774.9867	5774.9866
40	5774.9876	5774.9869	5774.9861	5774.9856
50	5774.9869	5774.9868	5774.9867	5774.9860
60	5774.9870	5774.9869	5774.9867	5774.9859
70	5774.9995	5774.9993	5774.9986	5774.9977
80	5775.0008	5775.0000	5774.9991	5774.9988
85	5775.0010	5775.0009	5775.0006	5774.9997
Max. Deviation (MHz)	0.0172	0.0180	0.0186	0.0187
Max. Deviation (ppm)	2.98	3.12	3.22	3.24
Result	Pass			