



FCC RADIO TEST REPORT

FCC ID : A4RG8AK3
Equipment : Wireless Device
Model Name : G8AK3
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : 47 CFR FCC Part 15.519

The product was received on Mar. 17, 2025, and testing was performed from Mar. 22, 2025 to Mar. 29, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR511002J	01	Initial issue of report	May 06, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1	15.203	Antenna Requirement	PASS	15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	15.207
3.2	15.503	UWB Bandwidth	PASS	≥ 500MHz
3.3	15.519(a)(1)	Technical requirements for Hand Held UWB systems	PASS	15.519(a)(1)
3.4	15.519(e)	Peak Power Measurement	PASS	≤ 0 dBm/50MHz
3.5	15.519(c) /15.519(d)	Radiated Emissions	PASS	UWB Emissions: 15.519(c) GPS Emissions: 15.519(d) Digital Emissions: 15.209

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, BLE, BLE ASK, BLE GFSK, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB, 60GHz and GNSS.
Antenna Type UWB: PIFA Antenna

Antenna information		
6489.6 MHz	Peak Gain (dBi)	-0.5
7987.2 MHz	Peak Gain (dBi)	1.4

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

EUT Information List	
S/N	Performed Test Item
51181WRBNW41BA	Equivalent Isotropic Radiated Power
	Radiated Spurious Emission
51181WRBNW41AL	Conducted Emission

1.2 Modification of EUT

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

1.3 Type of EUT

Operational Condition	
EUT Power Type	AC mains: AC voltage 120 V
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
☐	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
☐	Other:

1.4 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 414788 D01 Radiated Test Site v01r01

Remark: The TAF code is not including all the FCC KDB listed without accreditation.

1.5 Testing Location Information

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	CO07-HY	03CH22-HY

Note: The test site complies with ANSI C63.4 2014 requirement.
FCC designation No.: TW3786

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Conduction	CO07-HY	Louis Chung	21.5~23.6 °C 48.2~53.6 %	Mar. 29, 2025
Radiated	03CH22-HY	Bill Chang and York Huang	18.8~22.5 °C 57.7~63.3 %	Mar. 22, 2025~ Mar. 28, 2025

1.6 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
AC Conduction (150kHz ~ 30MHz)	3.70 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1000MHz)	6.60 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 6GHz)	5.20 dB	Confidence levels of 95%
Radiated Emission (6GHz ~ 18GHz)	5.00 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.70 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Mode

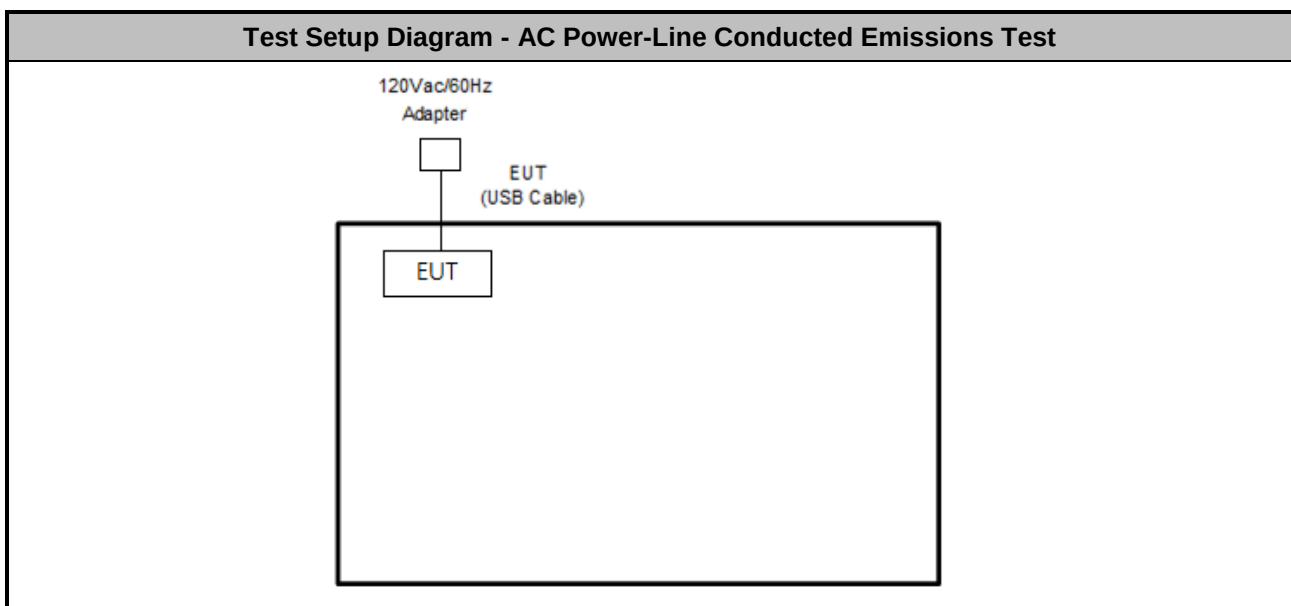
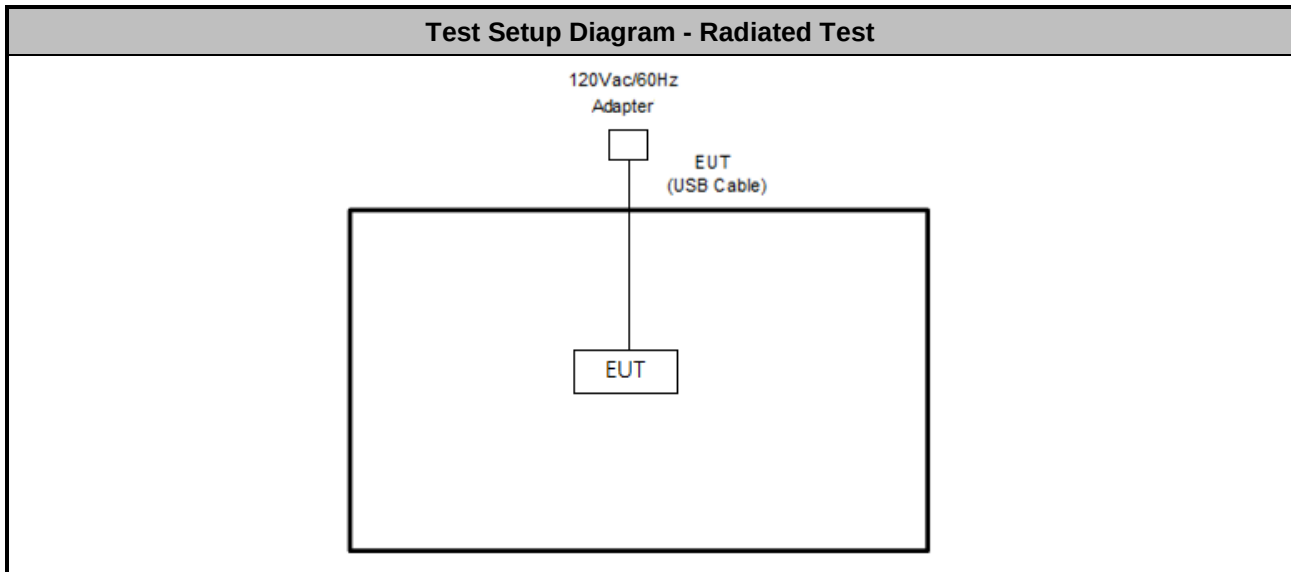
Test Configuration					
Mode	Channel	Modulation	Config ID	STS Num	Payload Length (bytes)
1	5	BPRF9	0	0	127
2	5	BPRF10	0	0	127
3	5	BPRF9	1	1	127
4	5	BPRF10	1	1	127
5	5	BPRF9	3	1	0
6	5	BPRF10	3	1	0
7	5	HPRF27	0	0	255
8	5	HPRF27	1	1	255
9	5	HPRF27	3	1	0
10	9	BPRF9	0	0	127
11	9	BPRF10	0	0	127
12	9	BPRF9	1	1	127
13	9	BPRF10	1	1	127
14	9	BPRF9	3	1	0
15	9	BPRF10	3	1	0
16	9	HPRF27	0	0	255
17	9	HPRF27	1	1	255
18	9	HPRF27	3	1	0

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 Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter Mode
Remark: Please refer to 15.207 which states, "Measurements to demonstrate compliance with the conducted limits are not required for devices employ Battery for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines".	

The Worst Case Mode for Following Conformance Tests			
Tests Item	UWB Bandwidth, Peak Power Measurement, Radiated Emissions		
Test Condition	Radiated measurement		
Operating Mode	CTX		
1	Adapter Mode		
Mode 15 configuration was tested and found to be the worst case and measured during the test.			
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Plane of all Test Modes		V	
Remark: The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find as worst plane, and recorded in this report.			

2.3 Test Setup Diagram



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	N/A	N/A	N/A	N/A	N/A

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.

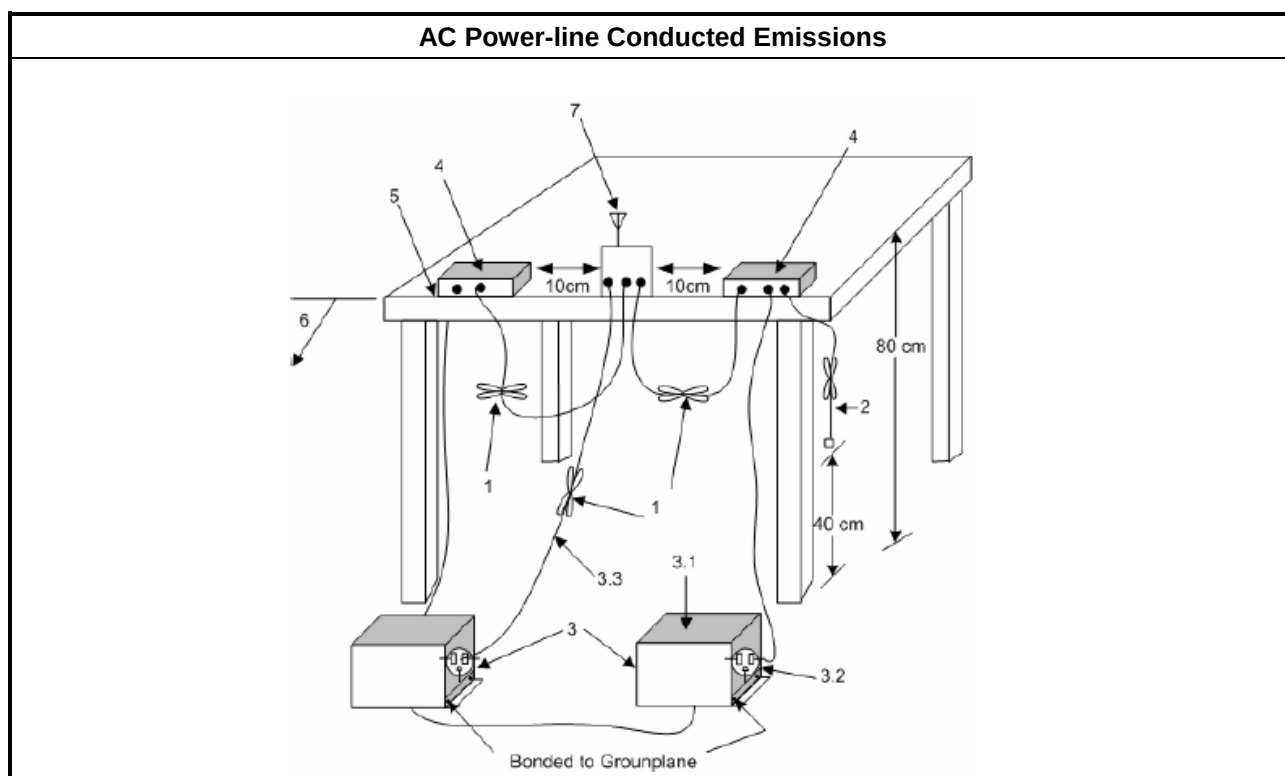
3.1.2 Measuring Instruments

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

Please refer to Appendix A.

3.2 UWB bandwidth

3.2.1 UWB bandwidth Limit

UWB bandwidth Limit
UWB bandwidth ≥ 500 MHz or Fractional bandwidth ≥ 0.2 ; Fractional bandwidth = $2(f_H - f_L) / (f_H + f_L)$

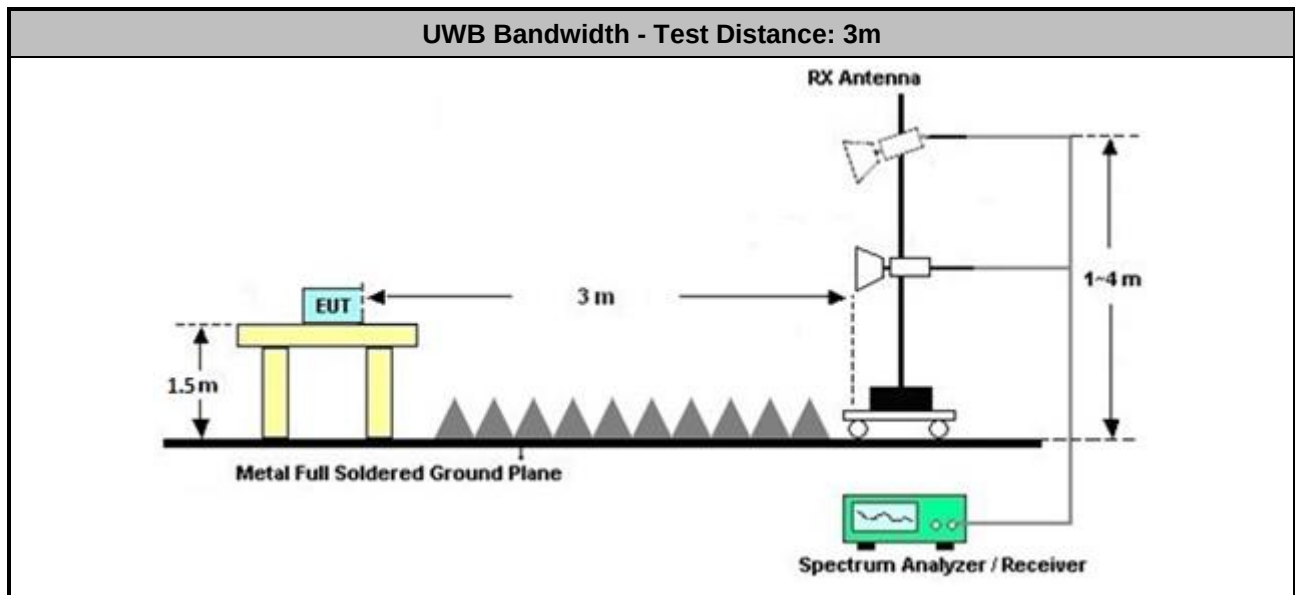
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
■ For the UWB bandwidth shall be measured using one of the options below:
■ Refer as ANSI C63.10, clause 6.9.2 and clause 10.1 for UWB bandwidth testing.

3.2.4 Test Setup



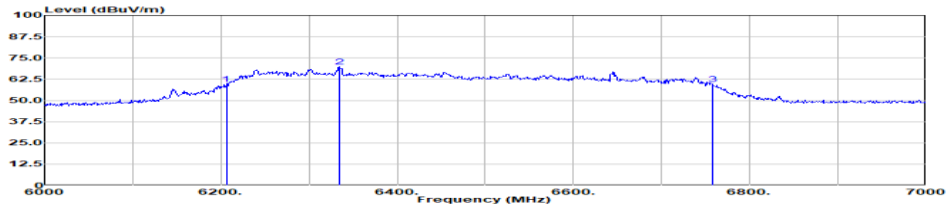
3.2.5 Test Result of UWB Bandwidth

Test mode	F _L (MHz)	F _H (MHz)	UWB Bandwidth (MHz)	Bandwidth limit (MHz)	Result	Pol [H/V]
1	6206	6757	551	≥ 500	Pass	H
2	6218	6748	530	≥ 500	Pass	H
3	6208	6754	546	≥ 500	Pass	H
4	6207	6747	540	≥ 500	Pass	H
5	6197	6763	566	≥ 500	Pass	H
6	6191	6773	582	≥ 500	Pass	H
7	6208	6757	549	≥ 500	Pass	H
8	6207	6757	550	≥ 500	Pass	H
9	6198	6761	563	≥ 500	Pass	H
10	7720	8262	542	≥ 500	Pass	H
11	7719	8231	512	≥ 500	Pass	H
12	7713	8244	531	≥ 500	Pass	H
13	7717	8233	516	≥ 500	Pass	H
14	7700	8258	558	≥ 500	Pass	H
15	7695	8271	576	≥ 500	Pass	H
16	7707	8251	544	≥ 500	Pass	H
17	7716	8254	538	≥ 500	Pass	H
18	7704	8255	551	≥ 500	Pass	H



UWB Bandwidth

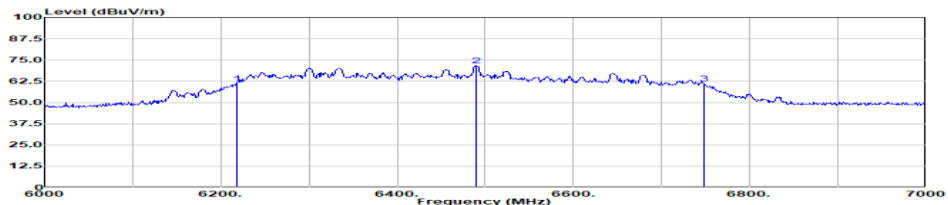
Mode 1 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 1
Channel : CH5
Modulation : BPRF 9
Config : 0
STS Nums : 0
Payload Length : 127
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	Loss	Factor	Factor	cm	deg	
1	6206.00	59.52	-----	-----	44.55	34.21	14.06	35.13	0.96	--	--	Peak
2	6334.00	69.80	-----	-----	54.47	34.40	14.25	35.18	1.00	--	--	Peak
3	6757.00	59.56	-----	-----	42.95	35.70	14.76	35.69	1.02	--	--	Peak

Mode 2 - H



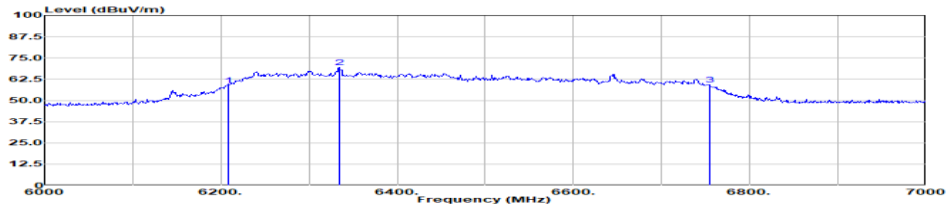
Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 2
Channel : CH5
Modulation : BPRF 10
Config : 0
STS Nums : 0
Payload Length : 127
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	Loss	Factor	Factor	cm	deg	
1	6218.00	61.07	-----	-----	46.04	34.24	14.08	35.13	0.97	--	--	Peak
2	6490.00	71.77	-----	-----	55.72	34.96	14.45	35.24	1.03	--	--	Peak
3	6748.00	61.24	-----	-----	44.63	35.70	14.75	35.68	1.02	--	--	Peak



UWB Bandwidth

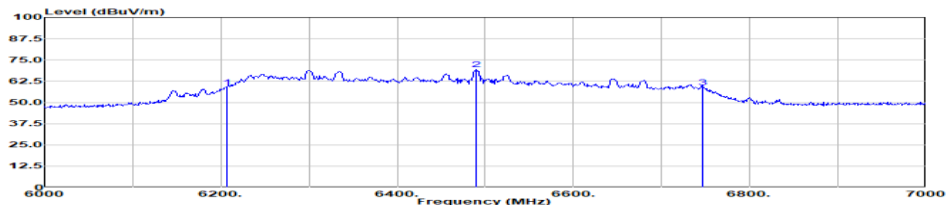
Mode 3 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : 511002
Mode : Peak
Channel : CH5
Modulation : BPRF 9
Config : 1
STS Nums : 1
Payload Length : 127
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	6200.00	58.95	-----	-----	43.97	34.22	14.06	35.13	0.96	--	--	Peak
2	6334.00	69.29	-----	-----	53.96	34.40	14.25	35.18	1.00	--	--	Peak
3	6754.00	59.19	-----	-----	42.59	35.70	14.75	35.69	1.02	--	--	Peak

Mode 4 - H



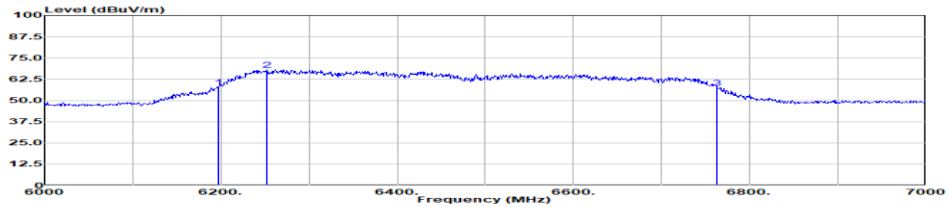
Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : 511002
Mode : Peak
Channel : CH5
Modulation : BPRF 10
Config : 1
STS Nums : 1
Payload Length : 127
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	6207.00	58.83	-----	-----	43.86	34.21	14.06	35.13	0.96	--	--	Peak
2	6490.00	69.31	-----	-----	53.26	34.96	14.45	35.24	1.03	--	--	Peak
3	6747.00	59.01	-----	-----	42.38	35.71	14.75	35.67	1.02	--	--	Peak



UWB Bandwidth

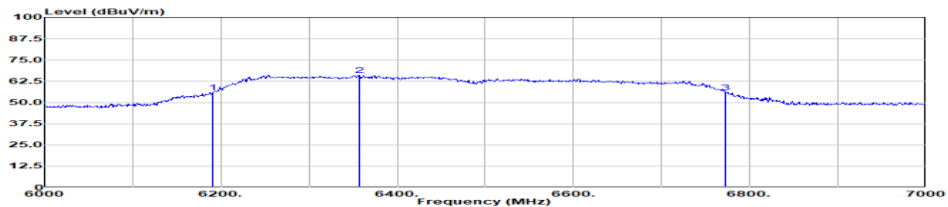
Mode 5 - H



Site : 03CH22-HY
Condition : 3m 9120D_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 5
Channel : CH5
Modulation : BPRF 9
Config : 3
STS Nums : 1
Payload Length : 0
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	6197.00	57.83	-----	-----	42.88	34.19	14.05	35.12	0.96	--	--	Peak
2	6252.00	68.01	-----	-----	52.89	34.30	14.13	35.15	0.98	--	--	Peak
3	6763.00	57.54	-----	-----	40.93	35.70	14.77	35.70	1.02	--	--	Peak

Mode 6 - H



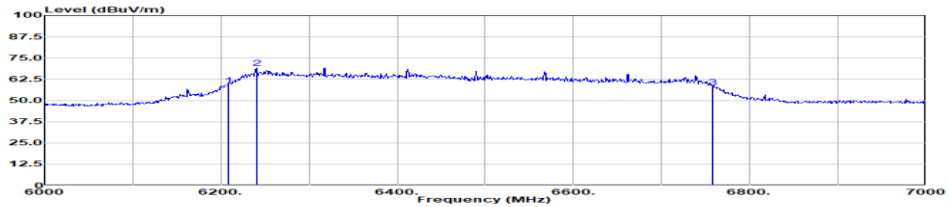
Site : 03CH22-HY
Condition : 3m 9120D_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 6
Channel : CH5
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length : 0
RMS Power : 0x0F

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	6191.00	55.76	-----	-----	40.84	34.18	14.04	35.12	0.96	--	--	Peak
2	6357.00	66.00	-----	-----	50.53	34.51	14.29	35.19	1.01	--	--	Peak
3	6773.00	55.96	-----	-----	39.38	35.70	14.78	35.72	1.01	--	--	Peak



UWB Bandwidth

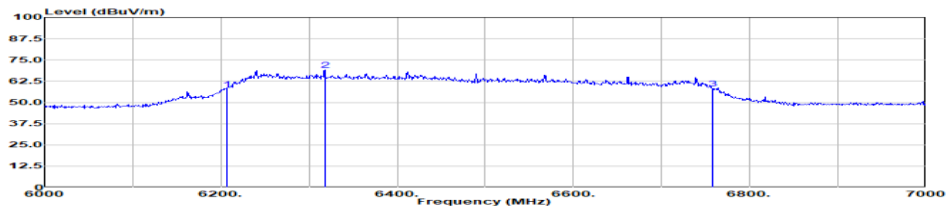
Mode 7 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : 511002
Mode : Peak
Channel : CH5
Modulation : HPRF 27
Config : 0
STS Nums : 0
Payload Length : 255
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	Loss	Factor	Factor	cm	deg	
1	6208.00	58.82	-----	-----	43.84	34.22	14.06	35.13	0.96	--	--	Peak
2	6240.00	69.17	-----	-----	54.08	34.28	14.11	35.14	0.97	--	--	Peak
3	6757.00	57.85	-----	-----	41.24	35.70	14.76	35.69	1.02	--	--	Peak

Mode 8 - H



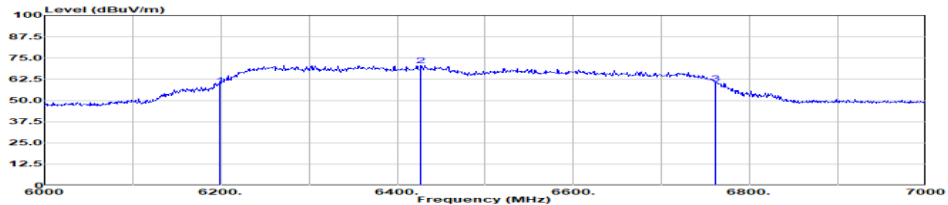
Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : 511002
Mode : Peak
Channel : CH5
Modulation : HPRF 27
Config : 1
STS Nums : 1
Payload Length : 255
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	Loss	Factor	Factor	cm	deg	
1	6207.00	57.92	-----	-----	42.95	34.21	14.06	35.13	0.96	--	--	Peak
2	6318.00	68.94	-----	-----	53.71	34.31	14.23	35.17	1.00	--	--	Peak
3	6757.00	58.25	-----	-----	41.64	35.70	14.76	35.69	1.02	--	--	Peak



UWB Bandwidth

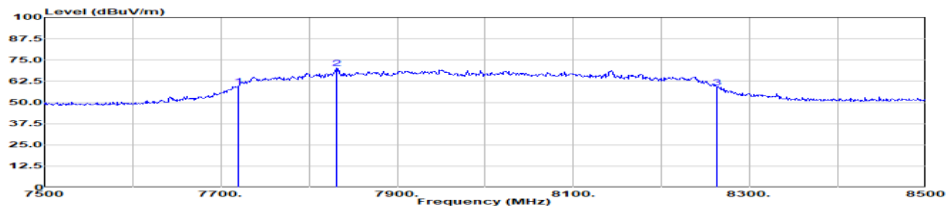
Mode 9 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 9
Channel : CH5
Modulation : HPRF 27
Config : 3
STS Nums : 1
Payload Length : 0
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6198.00	58.99	-----	-----	44.04	34.20	14.05	35.13	0.96	--	--	Peak
2	6427.00	70.71	-----	-----	54.96	34.71	14.38	35.21	1.02	--	--	Peak
3	6761.00	60.00	-----	-----	43.40	35.70	14.76	35.70	1.02	--	--	Peak

Mode 10 - H



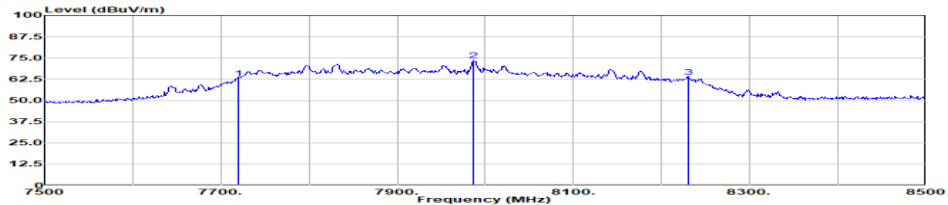
Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 10
Channel : CH9
Modulation : BPRF 9
Config : 0
STS Nums : 0
Payload Length : 127
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7720.00	59.79	-----	-----	42.49	36.38	15.85	36.94	1.12	--	--	Peak
2	7831.00	70.01	-----	-----	52.22	36.76	15.96	36.97	1.14	--	--	Peak
3	8262.00	58.80	-----	-----	40.63	36.90	16.41	37.19	1.12	--	--	Peak



UWB Bandwidth

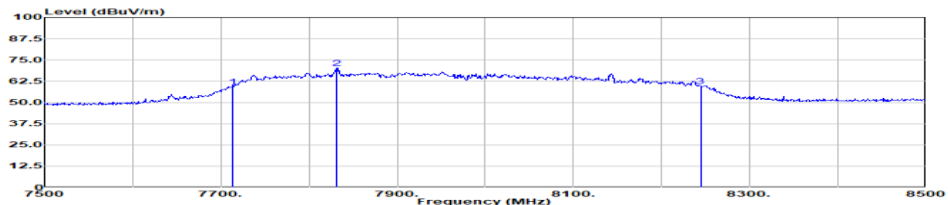
Mode 11 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 11
Channel : CH9
Modulation : BPRF 10
Config : 0
STS Nums : 0
Payload Length : 127
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	7719.00	63.15	-----	-----	45.85	36.38	15.85	36.94	1.12	--	--	Peak
2	7987.00	73.73	-----	-----	55.76	36.87	16.12	37.01	1.12	--	--	Peak
3	8231.00	63.62	-----	-----	45.44	36.90	16.39	37.17	1.12	--	--	Peak

Mode 12 - H



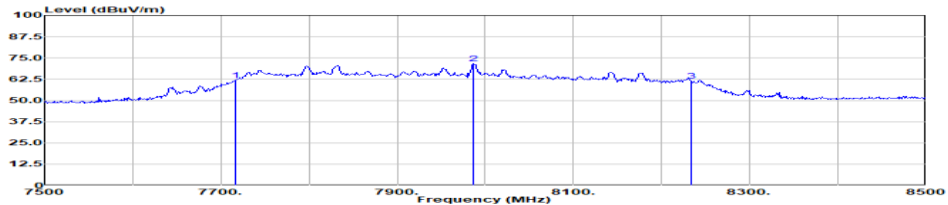
Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 12
Channel : CH9
Modulation : BPRF 9
Config : 1
STS Nums : 1
Payload Length : 127
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	7713.00	59.17	-----	-----	41.90	36.35	15.85	36.94	1.12	--	--	Peak
2	7831.00	70.02	-----	-----	52.23	36.76	15.96	36.97	1.14	--	--	Peak
3	8244.00	59.75	-----	-----	41.58	36.90	16.40	37.18	1.12	--	--	Peak



UWB Bandwidth

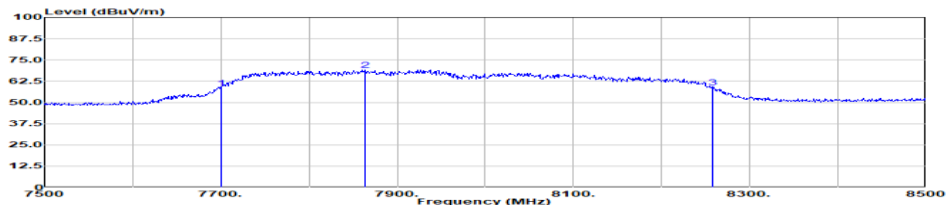
Mode 13 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 13
Channel : CH9
Modulation : BPRF 10
Config : 1
STS Nums : 1
Payload Length : 127
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	7717.00	61.79	-----	-----	44.41	36.37	15.85	36.94	1.12	--	--	Peak
2	7987.00	71.76	-----	-----	53.79	36.87	16.12	37.01	1.12	--	--	Peak
3	8233.00	61.69	-----	-----	43.51	36.90	16.39	37.17	1.12	--	--	Peak

Mode 14 - H



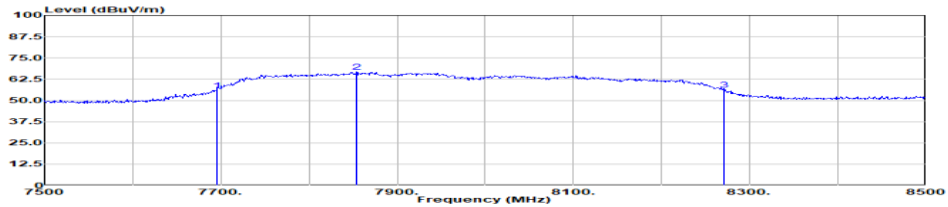
Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 14
Channel : CH9
Modulation : BPRF 9
Config : 3
STS Nums : 1
Payload Length : 0
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	7700.00	58.33	-----	-----	41.12	36.80	15.84	36.93	1.12	--	--	Peak
2	7864.00	69.10	-----	-----	51.25	36.80	15.99	36.97	1.13	--	--	Peak
3	8258.00	58.86	-----	-----	40.69	36.90	16.41	37.19	1.12	--	--	Peak



UWB Bandwidth

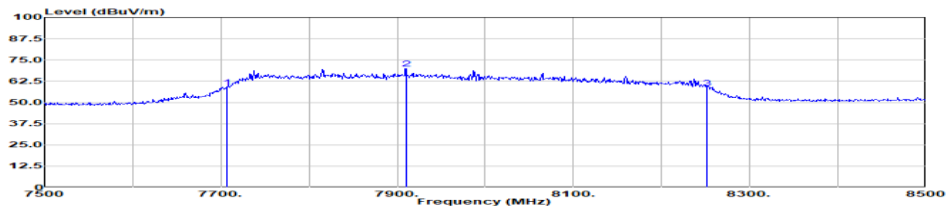
Mode 15 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length : 0
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7695.00	55.69	-----	-----	38.51	36.29	15.83	36.93	1.11	--	--	Peak
2	7854.00	66.70	-----	-----	48.86	36.80	15.98	36.97	1.13	--	--	Peak
3	8271.00	56.16	-----	-----	37.99	36.90	16.42	37.20	1.12	--	--	Peak

Mode 16 - H



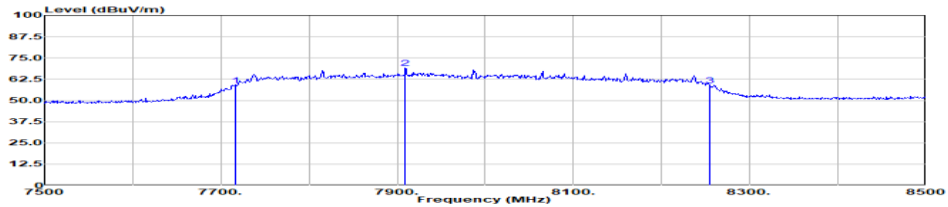
Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 16
Channel : CH9
Modulation : HPRF 27
Config : 0
STS Nums : 0
Payload Length : 255
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7707.00	58.72	-----	-----	41.47	36.33	15.84	36.93	1.12	--	--	Peak
2	7910.00	69.81	-----	-----	51.94	36.80	16.04	36.99	1.13	--	--	Peak
3	8251.00	58.66	-----	-----	40.50	36.90	16.40	37.19	1.12	--	--	Peak



UWB Bandwidth

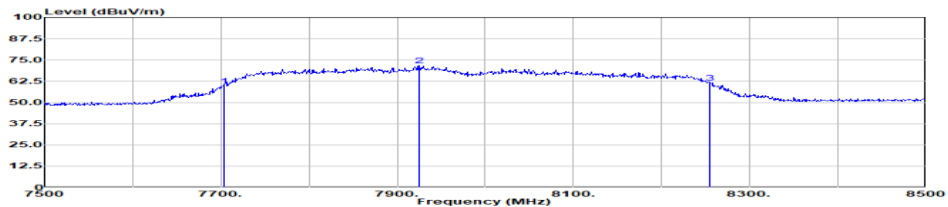
Mode 17 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 17
Channel : CH9
Modulation : HPRF 27
Config : 1
STS Nums : 1
Payload Length : 255
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	7716.00	58.79	-----	-----	41.42	36.36	15.85	36.94	1.12	--	--	Peak
2	7909.00	69.08	-----	-----	51.21	36.80	16.04	36.99	1.13	--	--	Peak
3	8254.00	59.03	-----	-----	40.86	36.90	16.41	37.19	1.12	--	--	Peak

Mode 18 - H



Site : 03CH22-HY
Condition : 3m 91200_02038_240729 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:3.000sec
Detector : Peak
Mode : 18
Channel : CH9
Modulation : HPRF 27
Config : 3
STS Nums : 1
Payload Length : 0
RMS Power : 0x0C
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	cm	deg	
1	7704.00	59.81	-----	-----	42.57	36.32	15.84	36.93	1.12	--	--	Peak
2	7925.00	71.54	-----	-----	53.66	36.80	16.06	36.99	1.13	--	--	Peak
3	8255.00	61.40	-----	-----	43.23	36.90	16.41	37.19	1.12	--	--	Peak

3.3 Technical requirements for hand held UWB systems

3.3.1 Technical Requirements for transmission Limit

FCC 15.519(a) (1) A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

3.3.2 Measuring Instruments

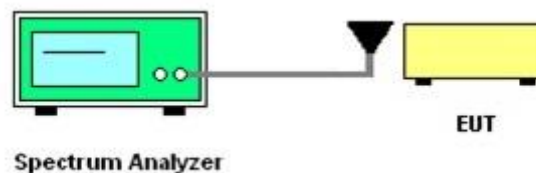
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedure

Follow the test step as below:

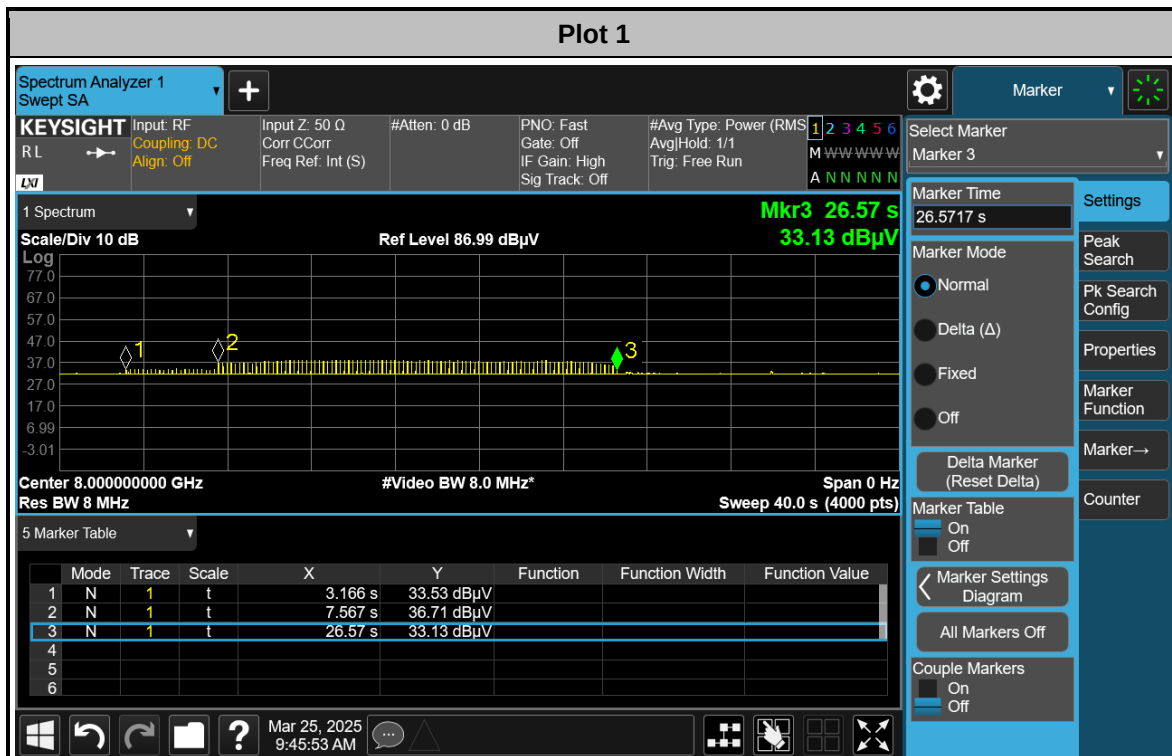
1. Turn on both EUT and companion receiver.
2. Set the EUT to TX mode, and EUT starts polling.
3. Set the companion receiver to associate EUT and EUT starts to transmit.
4. Disable the RX function of the companion receiver to disassociate the EUT.
5. Check if EUT stop transmitting once step 4 is made.

3.3.4 Test Setup





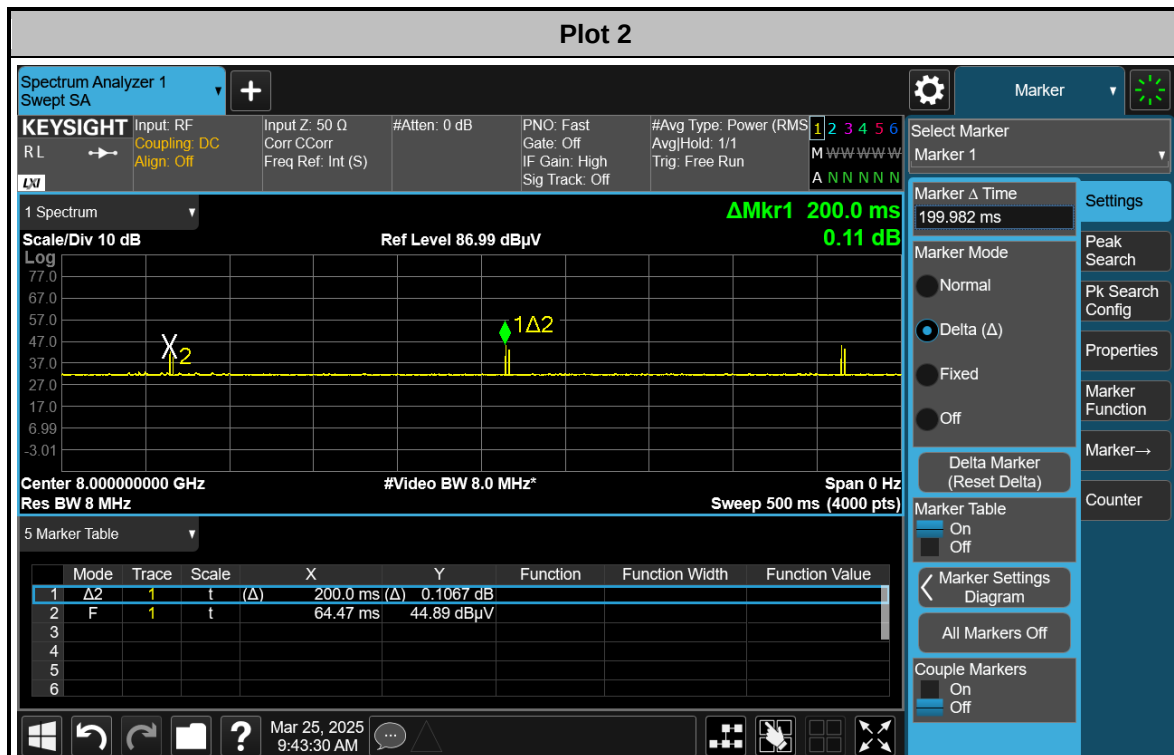
3.3.5 Test Result



M1 to M2: Set the EUT to TX mode, and EUT starts polling.

M2 to M3: Set the companion receiver to associate EUT and EUT starts to transmit.

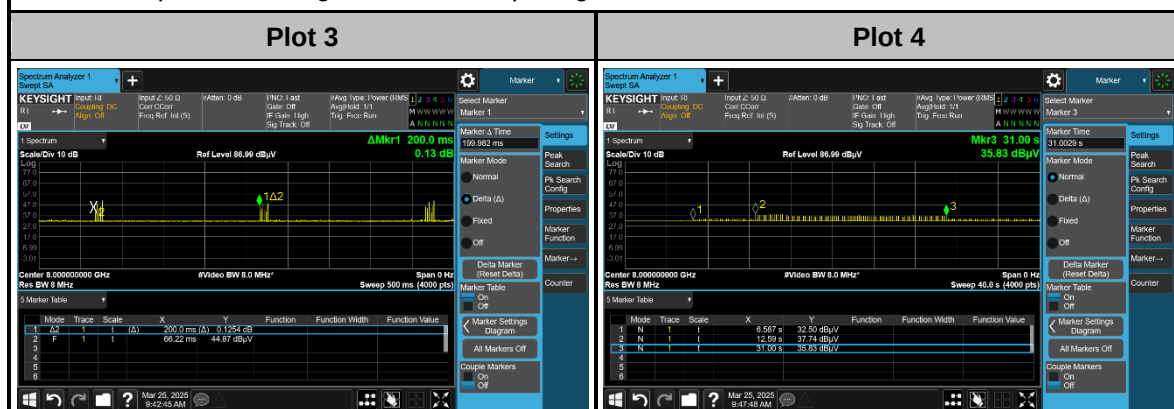
M3: Disable the TX function of EUT. EUT stops transmitting and polling.



M1 to M2: Set the EUT to TX mode, and EUT starts polling.

M2 to M3: Set the companion receiver to associate EUT and EUT starts to transmit.

M3: RX function of the companion receiver is disabled. EUT disassociates the companion receiver and stops transmitting, but continues polling.



Plot 3 is zoom in plot of M2 to M3 (transmission)

Plot 4 is zoom in plot after M3 (polling only)

3.4 Peak Power Measurement

3.4.1 Peak Power Measurement Limit

Peak Power Measurement Limit
$P_{eip} = 0 \text{ dBm/50MHz}$

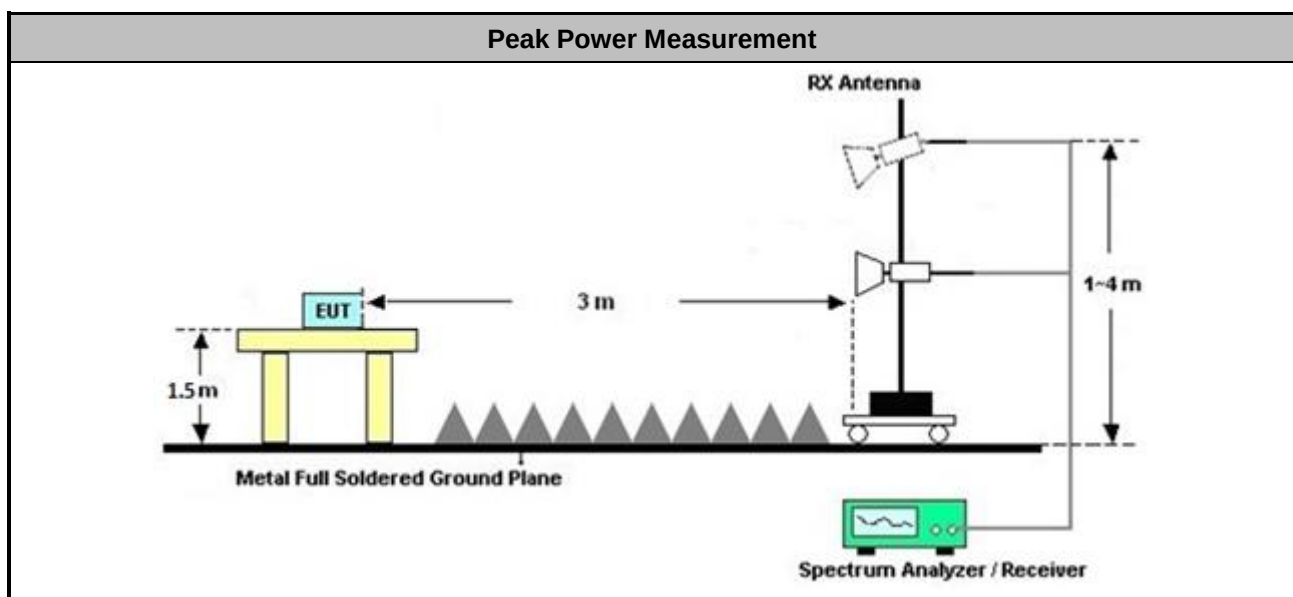
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
Peak Power Measurement
Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m.
Refer as ANSI C63.10, clause 10.3.5 for peak detector procedure testing.
Refer as ANSI C63.10, clause 10.3.6 for bandwidth conversion of peak power.
- Frequency of max peak power is pre-located: The span bandwidth is continuously reduced to find the worst frequency. Once the worst frequency is found, the setting of spectrum analyzer is set as below: - Central frequency: Worst frequency point - Span: Zero span - RBW: 50MHz - VBW: 80MHz - Detector: Peak detector - Trace: Max hold

3.4.4 Test Setup



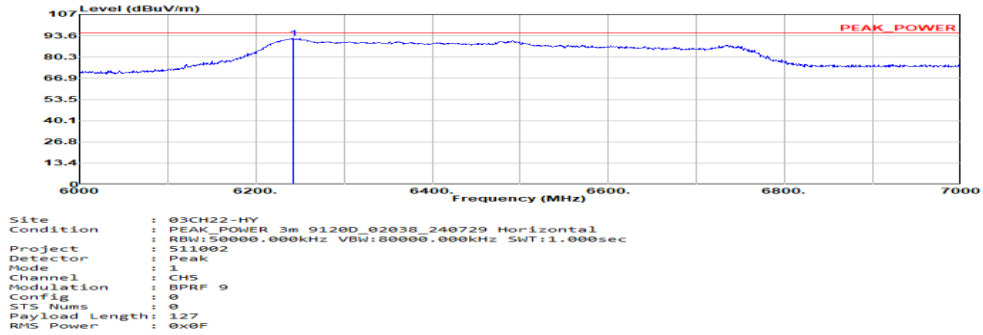
**3.4.5 Test Result of Peak Power Measurement**

Peak Measurement Result							
Test Mode	Freq. (MHz)	E-Field (dBuV/m)	ERIP _{50MHz} (dBm)	ERIP _{50MHz} Limit (dBm)	Margin (dB)	Result	Pol [H/V]
1	6242.0	91.92	-3.31	0	-3.31	Pass	H
2	6243.0	91.89	-3.34	0	-3.34	Pass	H
3	6243.0	91.32	-3.91	0	-3.91	Pass	H
4	6242.0	91.39	-3.84	0	-3.84	Pass	H
5	6301.0	85.14	-10.09	0	-10.09	Pass	H
6	6428.0	87.00	-8.23	0	-8.23	Pass	H
7	6359.0	84.26	-10.97	0	-10.97	Pass	H
8	6361.0	84.46	-10.77	0	-10.77	Pass	H
9	6365.0	84.35	-10.88	0	-10.88	Pass	H
10	7993.0	93.40	-1.83	0	-1.83	Pass	H
11	7985.0	93.15	-2.08	0	-2.08	Pass	H
12	7989.0	91.56	-3.67	0	-3.67	Pass	H
13	7985.0	91.96	-3.27	0	-3.27	Pass	H
14	7924.0	86.34	-8.89	0	-8.89	Pass	H
15	7868.0	86.05	-9.18	0	-9.18	Pass	H
16	7864.0	85.97	-9.26	0	-9.26	Pass	H
17	7860.0	84.48	-10.75	0	-10.75	Pass	H
18	7919.0	85.25	-9.98	0	-9.98	Pass	H
Note 1: EIRP [dBm] = E-Field [dBuV/m] - 95.23; Note 2: Measurement worst emissions of receive antenna polarization.							



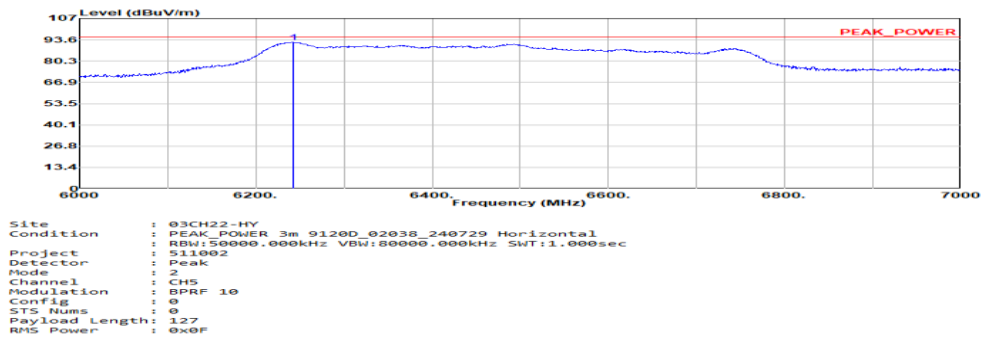
Pre-located worst frequency Plots

Mode 1 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6242.00	91.92	95.23	-3.31	76.83	34.28	14.11	35.14	0.97	--	--	Peak

Mode 2 - H

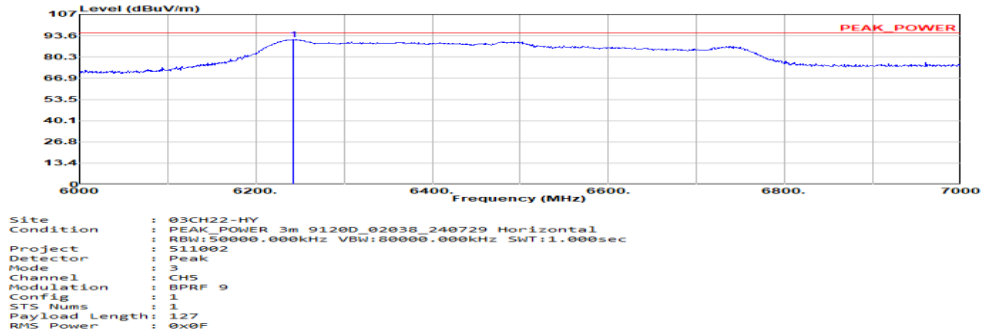


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6243.00	91.89	95.23	-3.34	76.79	34.29	14.11	35.14	0.97	--	--	Peak



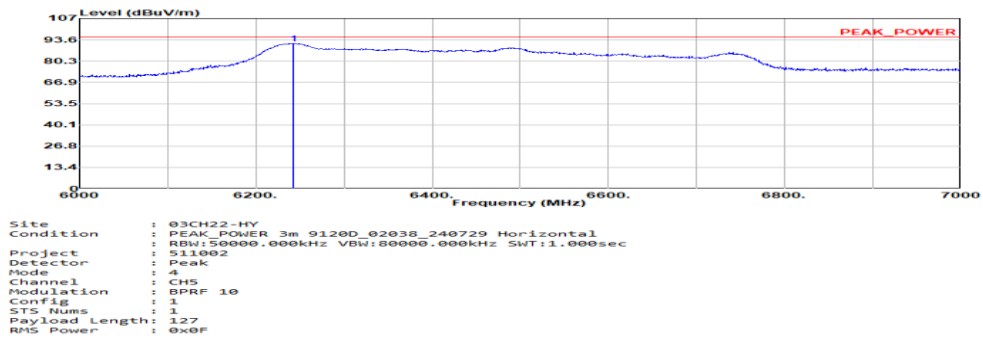
Pre-located worst frequency Plots

Mode 3 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6243.00	91.32	95.23	-3.91	76.22	34.29	14.11	35.14	0.97	--	--	Peak

Mode 4 - H

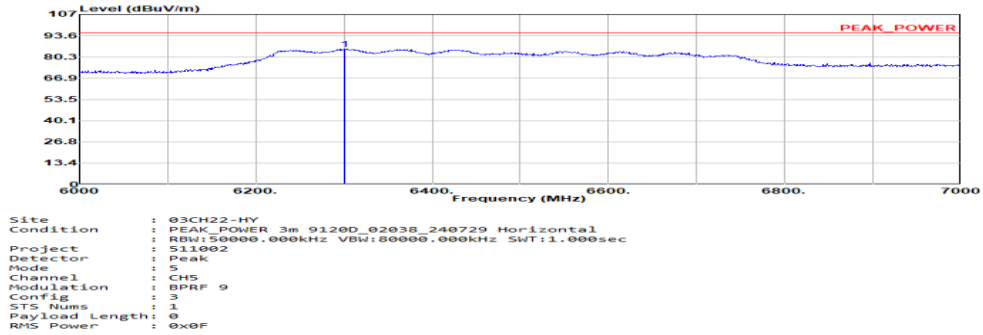


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6243.00	91.39	95.23	-3.84	76.30	34.28	14.11	35.14	0.97	--	--	Peak



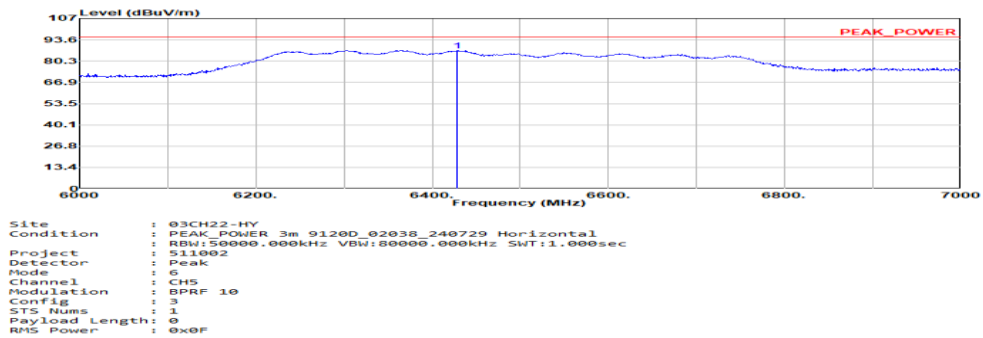
Pre-located worst frequency Plots

Mode 5 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6301.00	85.14	95.23	-10.09	70.04	34.21	14.20	35.16	0.99	--	--	Peak

Mode 6 - H

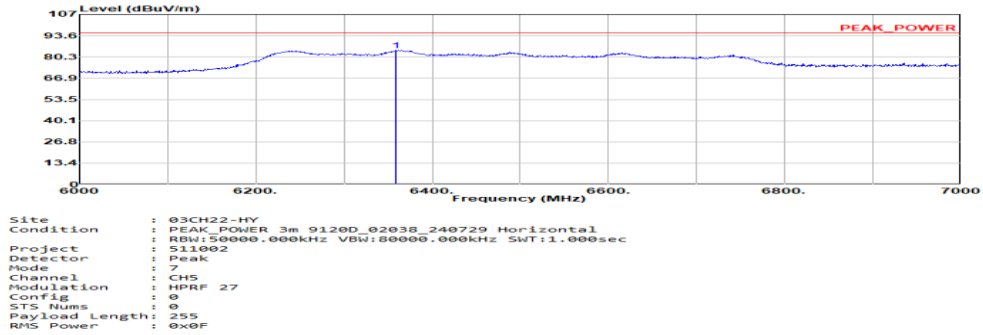


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6428.00	87.00	95.23	-8.23	71.25	34.71	14.38	35.21	1.02	--	--	Peak



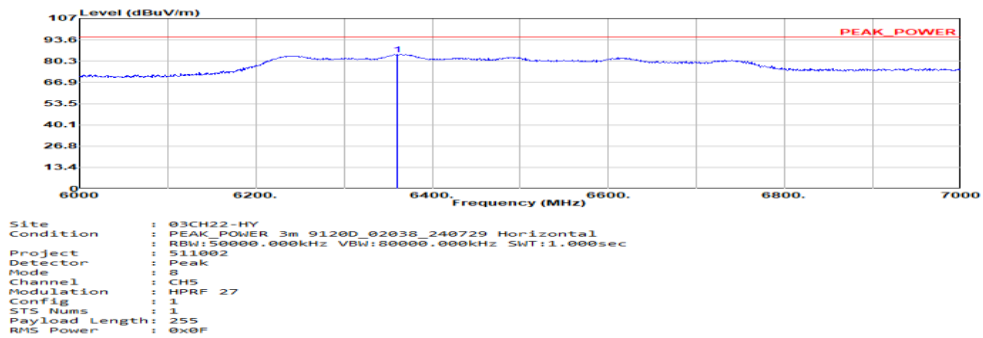
Pre-located worst frequency Plots

Mode 7 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6359.00	84.26	95.23	-10.97	68.78	34.52	14.29	35.19	1.01	--	--	Peak

Mode 8 - H

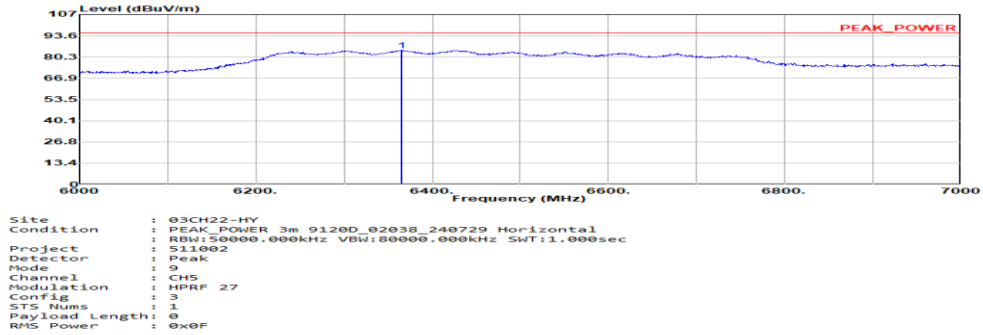


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6361.00	84.46	95.23	-10.77	68.98	34.52	14.29	35.19	1.01	--	--	Peak



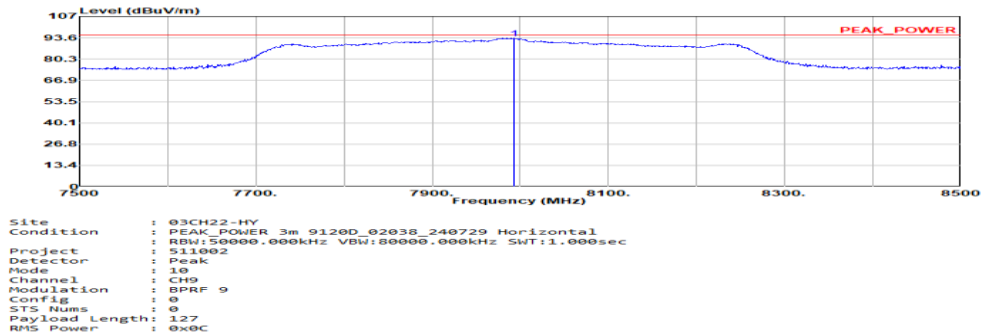
Pre-located worst frequency Plots

Mode 9 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6365.00	84.35	95.23	-10.88	68.85	34.53	14.30	35.19	1.01	--	--	Peak

Mode 10 - H

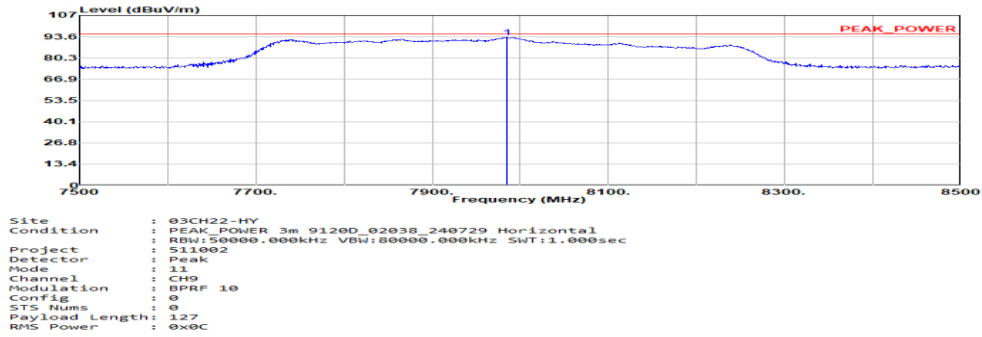


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7993.00	93.40	95.23	-1.83	75.41	36.89	16.12	37.01	1.12	--	--	Peak



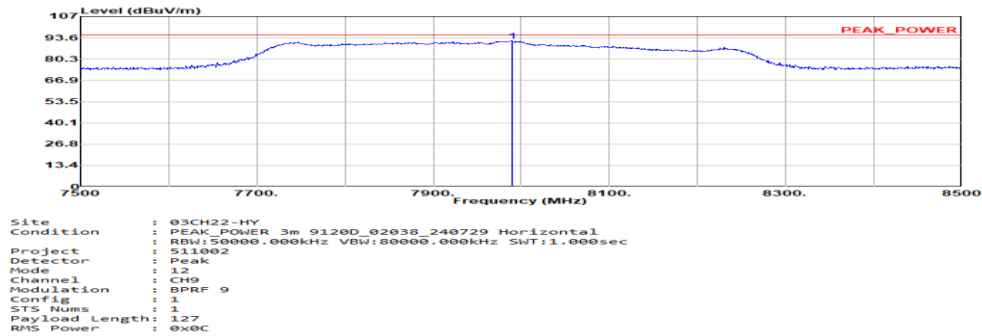
Pre-located worst frequency Plots

Mode 11 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7985.00	93.15	95.23	-2.08	75.19	36.87	16.11	37.01	1.12	--	--	Peak

Mode 12 - H

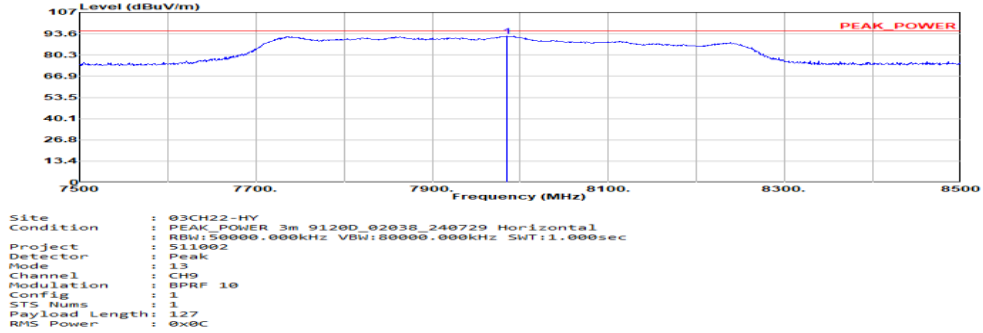


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7989.00	91.56	95.23	-3.67	73.58	36.88	16.12	37.01	1.12	--	--	Peak



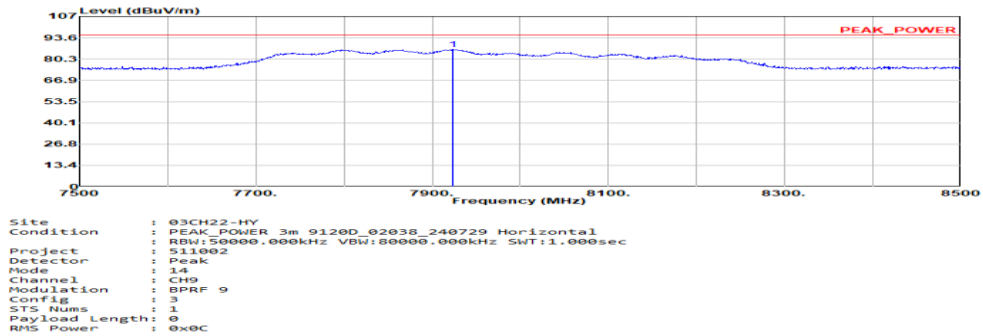
Pre-located worst frequency Plots

Mode 13 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7985.00	91.96	95.23	-3.27	74.00	36.87	16.11	37.01	1.12	100	240	Peak

Mode 14 - H

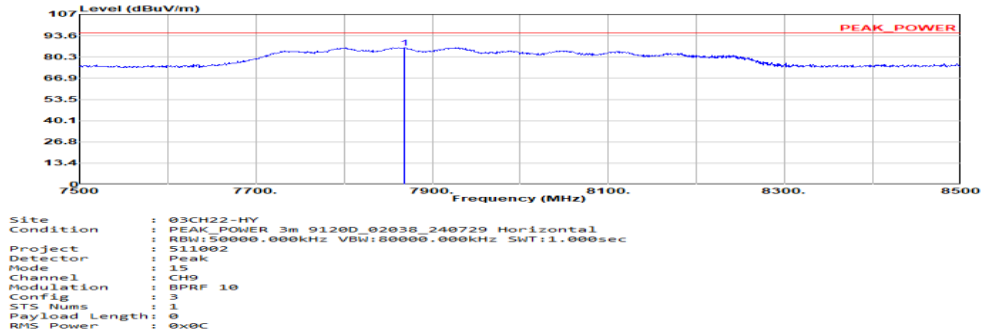


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7924.00	86.34	95.23	-8.89	68.46	36.80	16.05	36.99	1.13	--	--	Peak



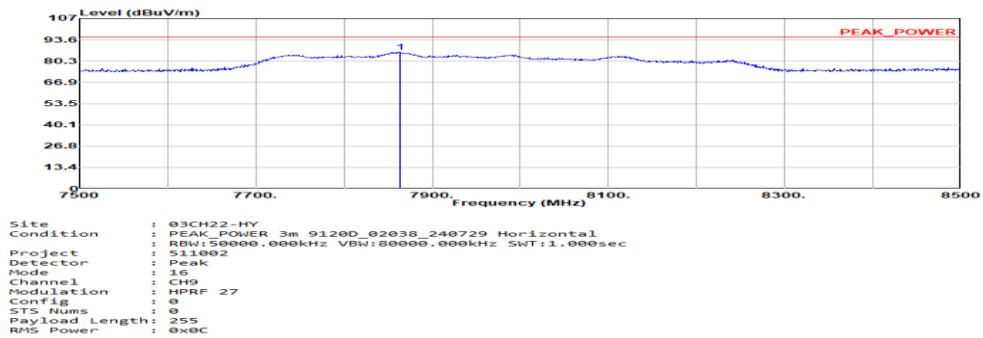
Pre-located worst frequency Plots

Mode 15 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7868.00	86.05	95.23	-9.18	68.20	36.80	16.00	36.98	1.13	--	--	Peak

Mode 16 - H

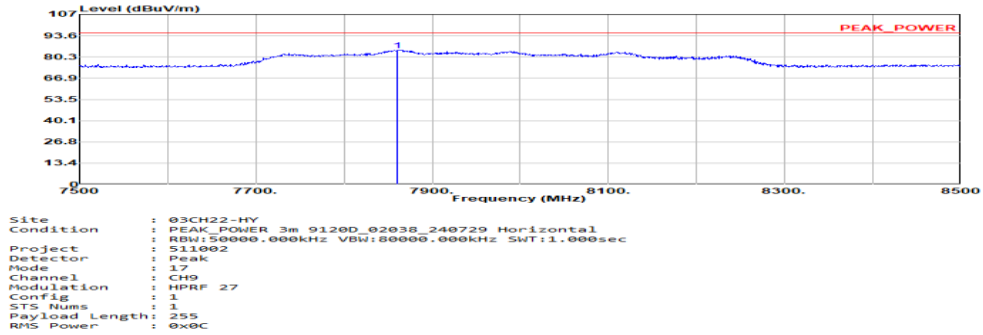


	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7864.00	85.97	95.23	-9.26	68.12	36.80	15.99	36.97	1.13	--	--	Peak



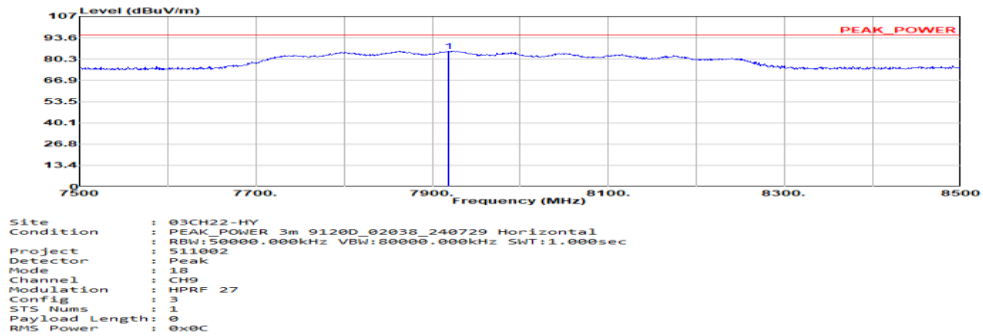
Pre-located worst frequency Plots

Mode 17 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7860.00	84.48	95.23	-10.75	66.63	36.80	15.99	36.97	1.13	--	--	Peak

Mode 18 - H



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7919.00	85.25	95.23	-9.98	67.37	36.80	16.05	36.99	1.13	--	--	Peak

3.5 Radiated Emissions

3.5.1 Radiated Emissions Limit

Radiated Emissions below 960MHz and Emissions from Digital Circuitry 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.

Radiated Emissions above 960MHz Limit	
Frequency Range (MHz)	EIRP (dBm), RBW = 1MHz
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

Note: Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)

Radiated Emissions in GPS Bands Limit	
Frequency Range (MHz)	EIRP (dBm), RBW ≥ 1kHz
1164-1240	-85.3
1559-1610	-85.3

Note E (dBuV/m) = EIRP (dBm) + 95.23, example, E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m

3.5.2 Measuring Instruments

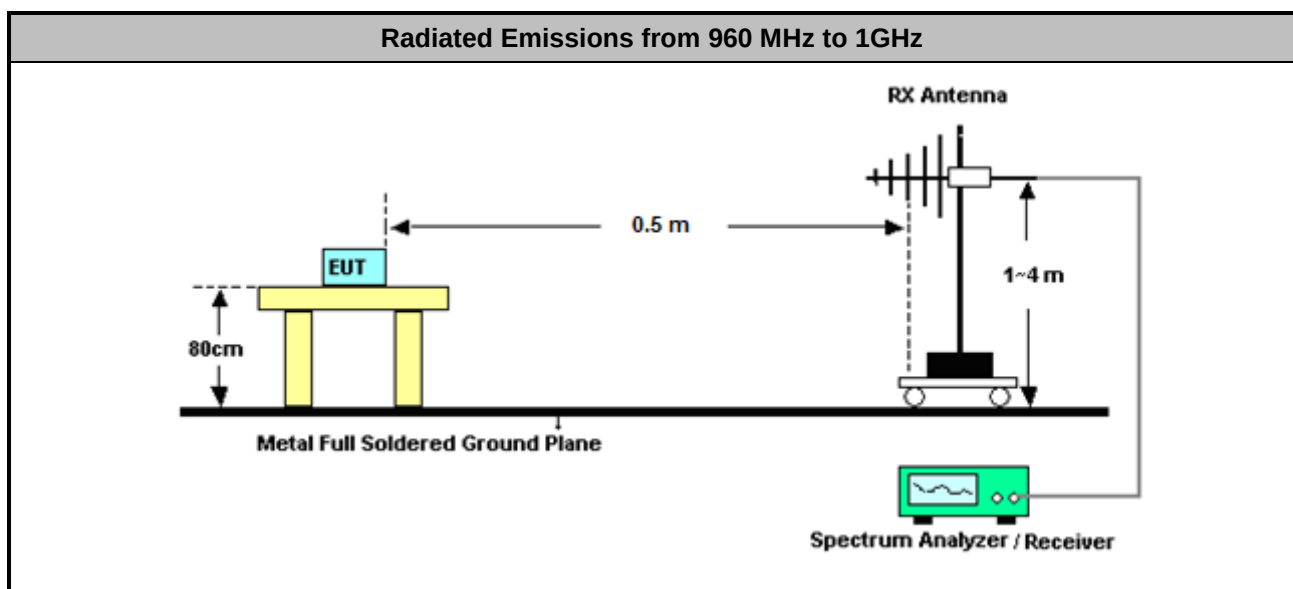
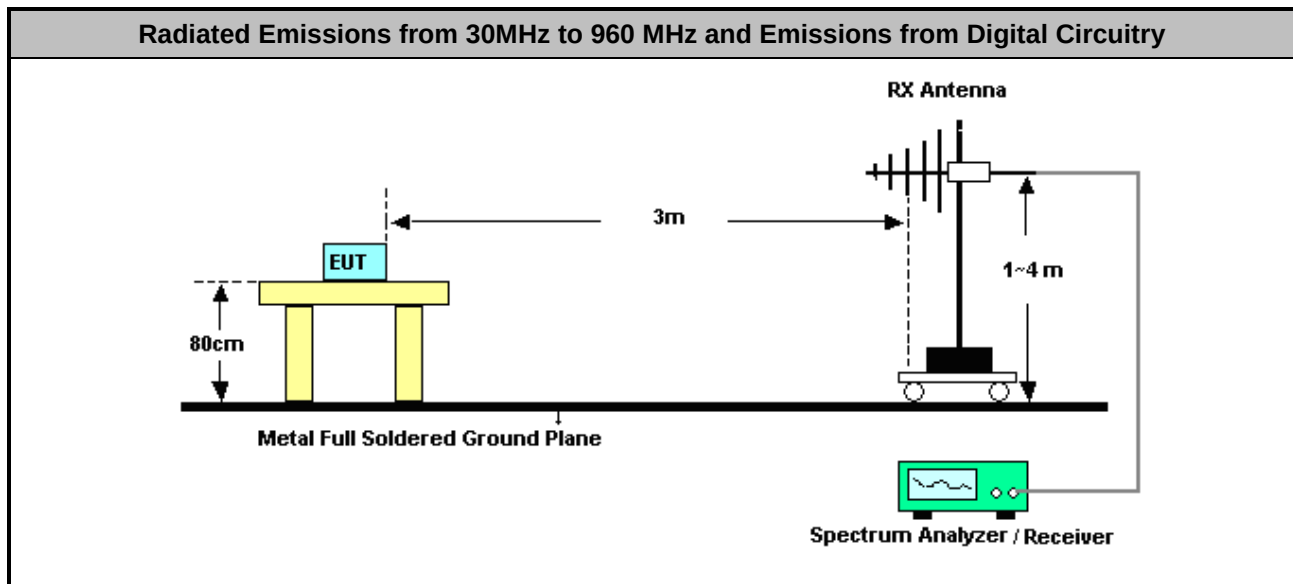
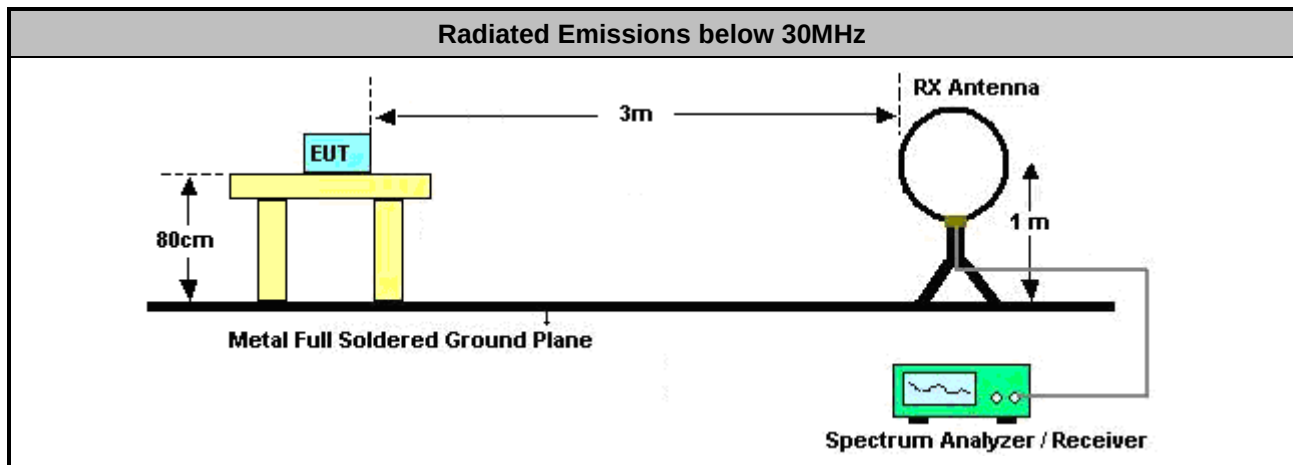
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

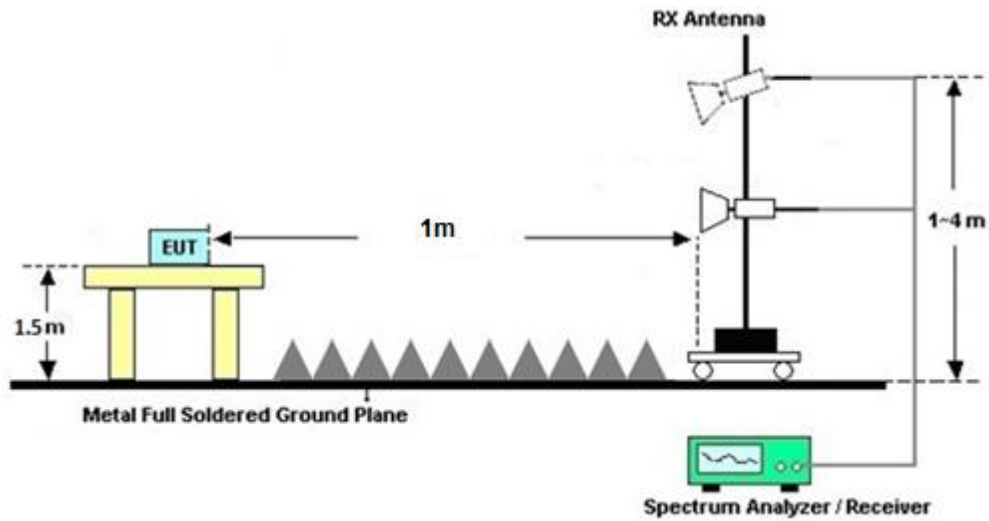
Test Method for Radiated Emissions above 960MHz	
■ Radiated Emissions above 960MHz	
■	Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
■	Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m. In some cases, it may be necessary to measure the radiated UWB emissions at a closer distance to obtain enough signal and margin to overcome the measurement system noise floor. Distance extrapolation factor = $20 \log(\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
■	Refer as ANSI C63.10, clause 10.3.4 for rms detector procedure testing.
■	Refer as ANSI C63.10, clause 10.3.7 for evaluating AVG-PSD (RBW=1MHz).
■	Refer as ANSI C63.10, clause 10.3.10 for evaluating AVG-PSD in GPS Band (RBW $\geq$ 1kHz).
■ For radiated measurement.	
■	Refer as ANSI C63.10, clause 10.3.8 following eirp can be used radiated test configuration.
■	Refer as ANSI C63.10, clause 10.3.9 following eirp can be directly determined using the field strength.

Test Method for Radiated Emissions below 960MHz and Emissions from Digital Circuitry	
■ 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) for above 30MHz-960MHz; 40dB/decade for frequency below 30MHz.	
■ For the transmitter unwanted emissions shall be measured using following options below:	
■	Refer as ANSI C63.10, clause 4.1.4 Detector functions and selection of bandwidth
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a "duty cycle correction factor", derived from $20 \log(\text{dwell time}/100 \text{ ms})$. Average emission = peak emission + $20 \log(\text{duty cycle})$.
■	Refer as ANSI C63.10, clause 4.1.4.2.2 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 1 GHz and test distance is 3m.
■	If the noise floor can't meet the limit, the test distance will be shorten and described in the report.
■ Any unwanted emissions level shall not exceed the fundamental emission level.	

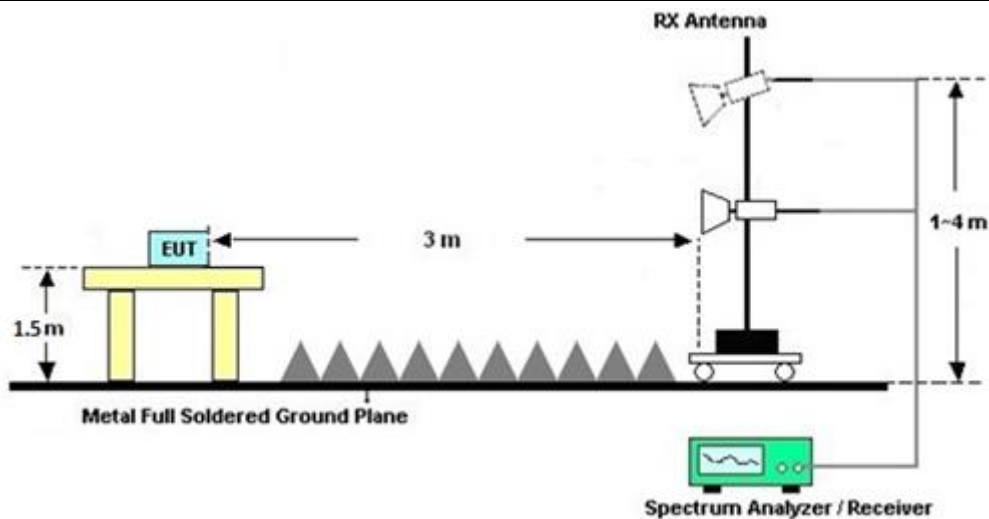
3.5.4 Test Setup

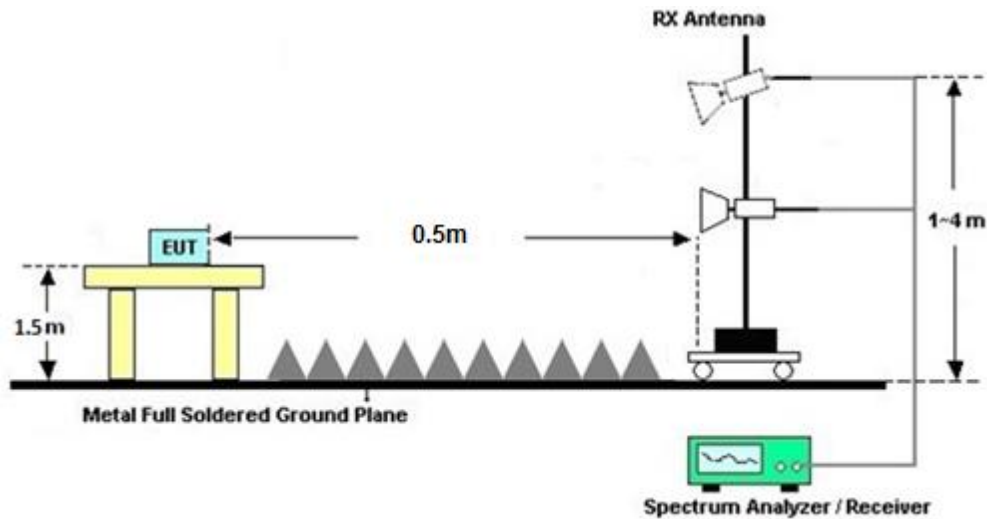
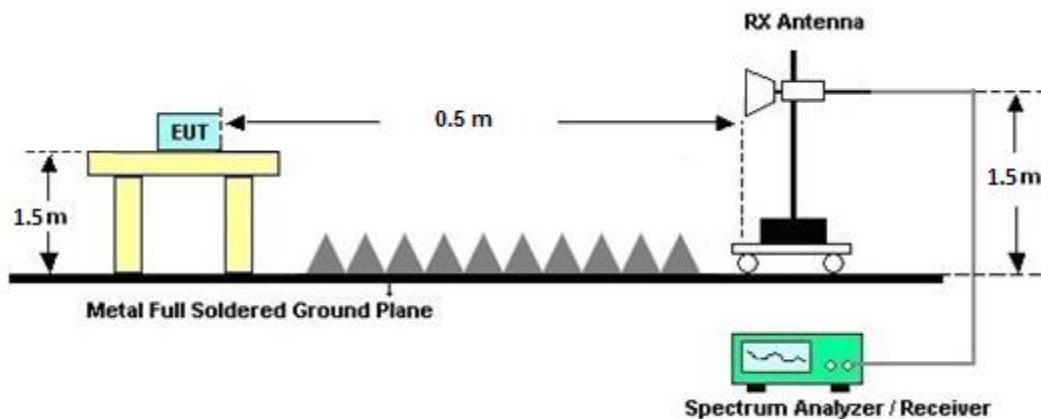


Radiated Emissions from 1GHz to 1.61 GHz



Radiated Emissions from 1.61 GHz to 10.60 GHz



Radiated Emissions from 10.60 GHz to 18GHz

Radiated Emissions above 18GHz


Note 1: Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

Note 2: If test distance other than 3m is used, the used test distance will be recorded in test result.

3.5.5 Radiated 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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Average Power Spectral Density

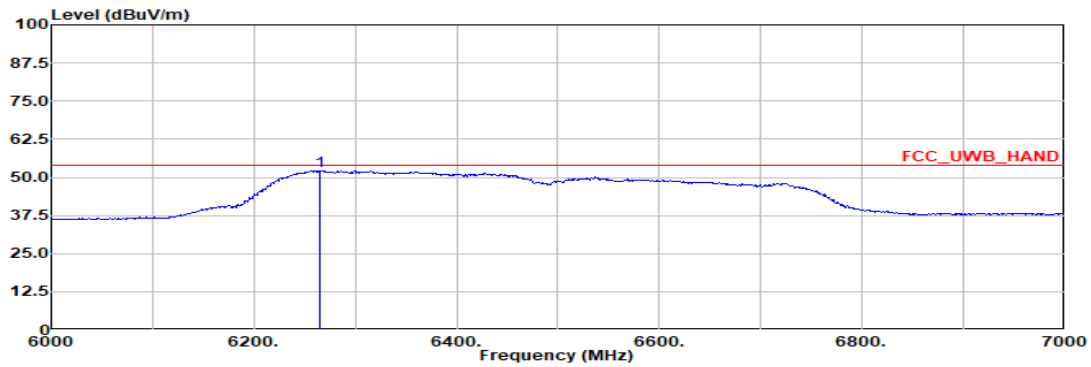
Test mode	Frequency (MHz)	Emission Level (dBuV/m)	Emission Limit (dBm/MHz)	Emission Limit (dBuV/m)	Margin (dB)	Result	Pol [H/V]
1	6265.0	52.22	-41.3	53.93	-1.71	Pass	H
2	6262.0	51.88	-41.3	53.93	-2.05	Pass	H
3	6256.0	52.37	-41.3	53.93	-1.56	Pass	H
4	6262.0	52.77	-41.3	53.93	-1.16	Pass	H
5	6265.0	52.64	-41.3	53.93	-1.29	Pass	H
6	6256.0	53.63	-41.3	53.93	-0.30	Pass	H
7	6263.0	52.03	-41.3	53.93	-1.90	Pass	H
8	6261.0	52.31	-41.3	53.93	-1.62	Pass	H
9	6441.0	51.74	-41.3	53.93	-2.19	Pass	H
10	7945.0	53.49	-41.3	53.93	-0.44	Pass	H
11	7940.0	53.63	-41.3	53.93	-0.30	Pass	H
12	7946.0	53.03	-41.3	53.93	-0.90	Pass	H
13	7863.0	53.41	-41.3	53.93	-0.52	Pass	H
14	7946.0	52.98	-41.3	53.93	-0.95	Pass	H
15	7863.0	53.75	-41.3	53.93	-0.18	Pass	H
16	7926.0	52.36	-41.3	53.93	-1.57	Pass	H
17	7946.0	52.27	-41.3	53.93	-1.66	Pass	H
18	7939.0	52.65	-41.3	53.93	-1.28	Pass	H



Radiated Emissions (Fundamental)

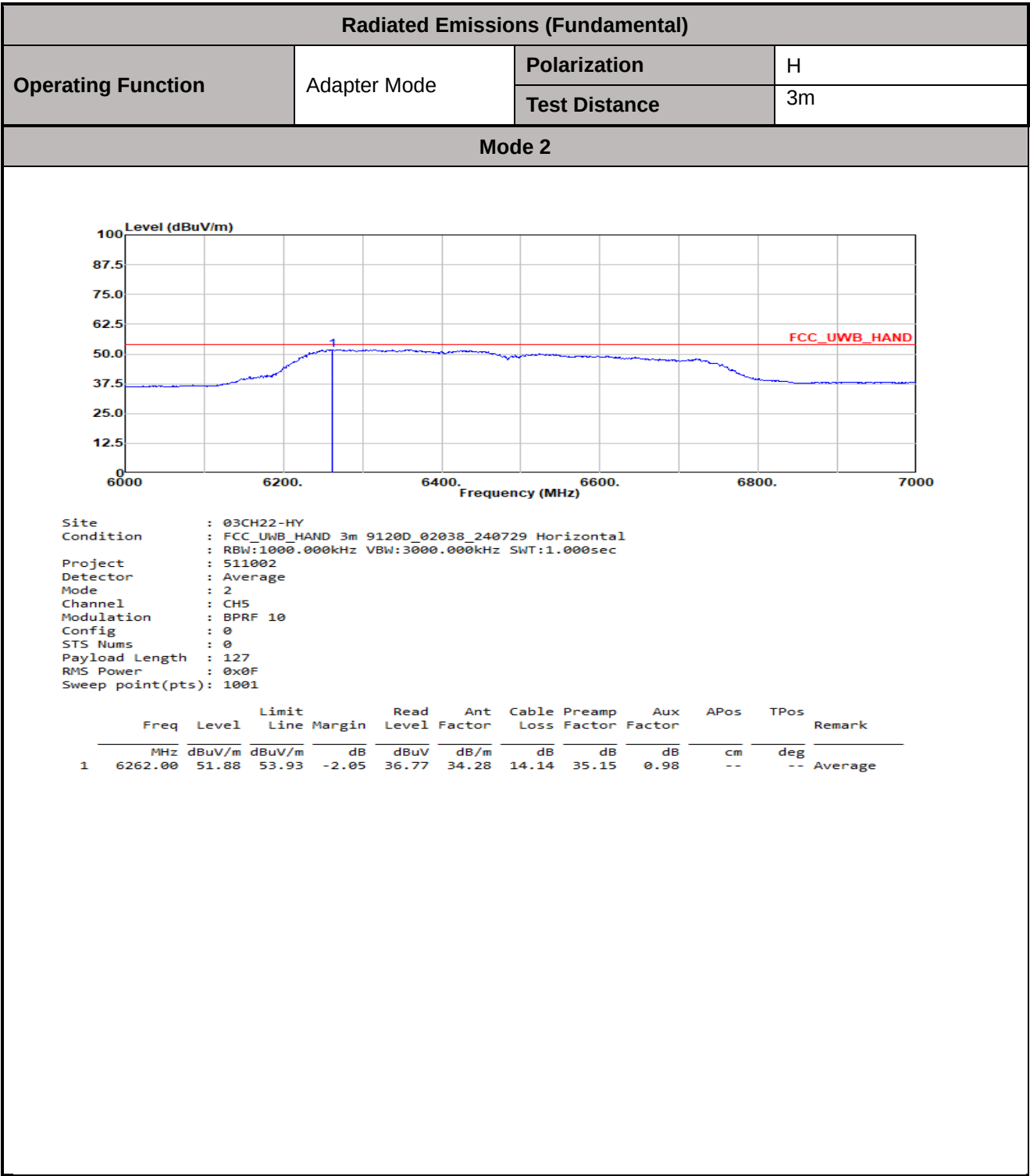
Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 1



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
Project : 511002
Detector : Average
Mode : 1
Channel : CH5
Modulation : BPRF 9
Config : 0
STS Nums : 0
Payload Length : 127
RMS Power : 0x0F
Sweep point(pts): 1001

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6265.00	52.22	53.93	-1.71	37.11	34.27	14.15	35.15	0.98	--	--	Average

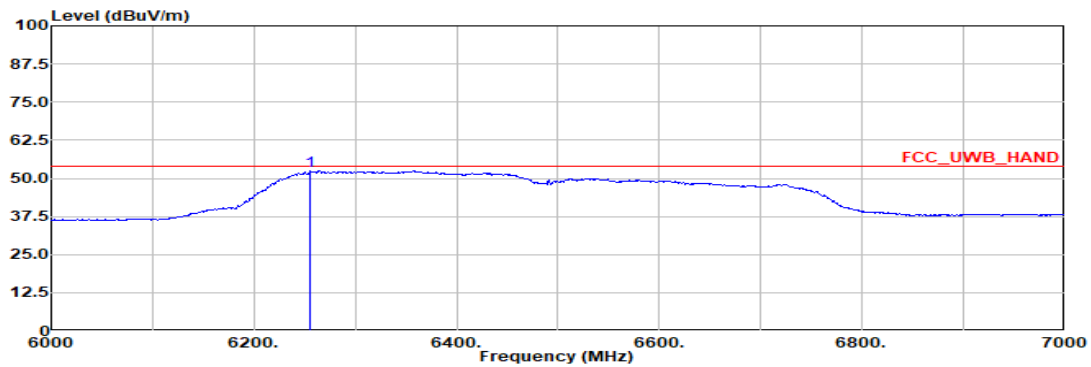




Radiated Emissions (Fundamental)

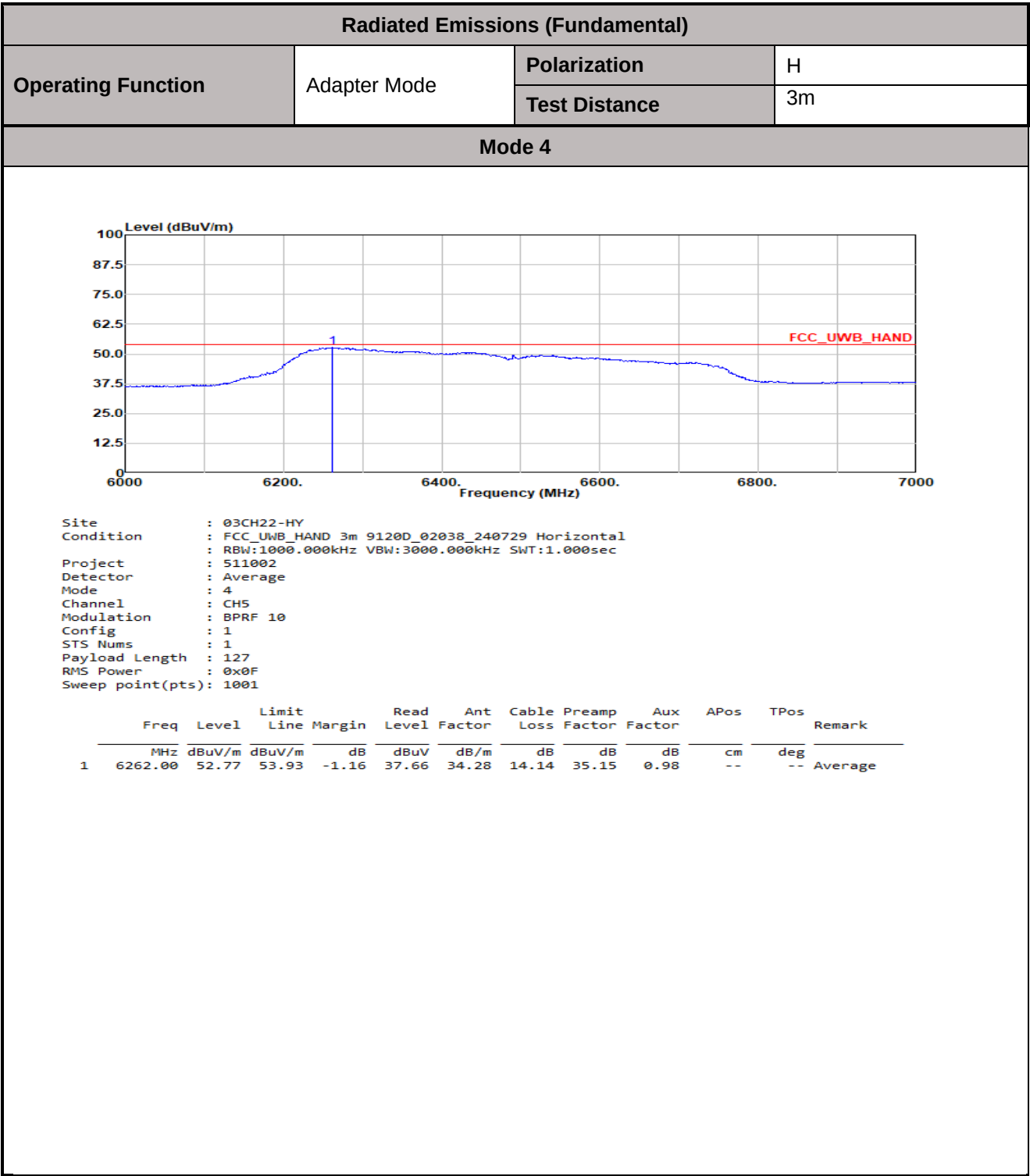
Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 3



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
RBW:1000.000kHz VBW:3000.000kHz SWT:1.000sec
Project : 511002
Detector : Average
Mode : 3
Channel : CH5
Modulation : BPRF 9
Config : 1
STS Num : 1
Payload Length : 127
RMS Power : 0x0F
Sweep point(pts): 1001

1	Freq		Limit		Margin	Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB		Level	Factor				Factor			
	6256.00	52.37	53.93	-1.56		37.26	34.29		14.13	35.15	0.98			Average

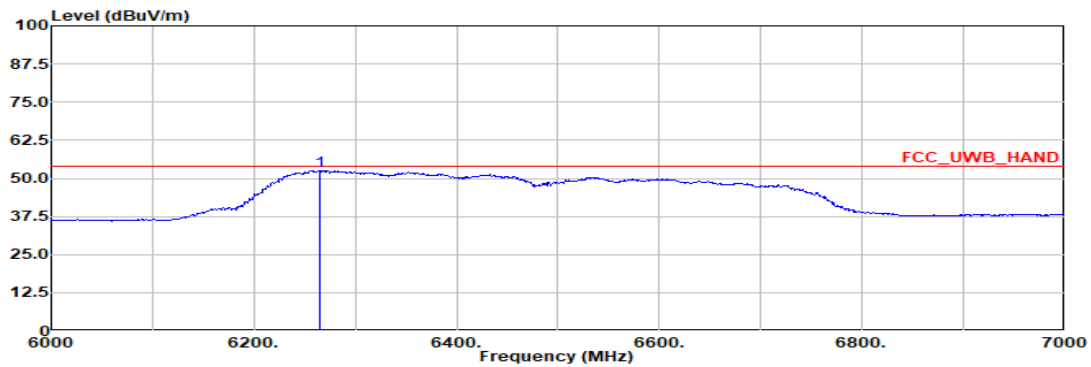




Radiated Emissions (Fundamental)

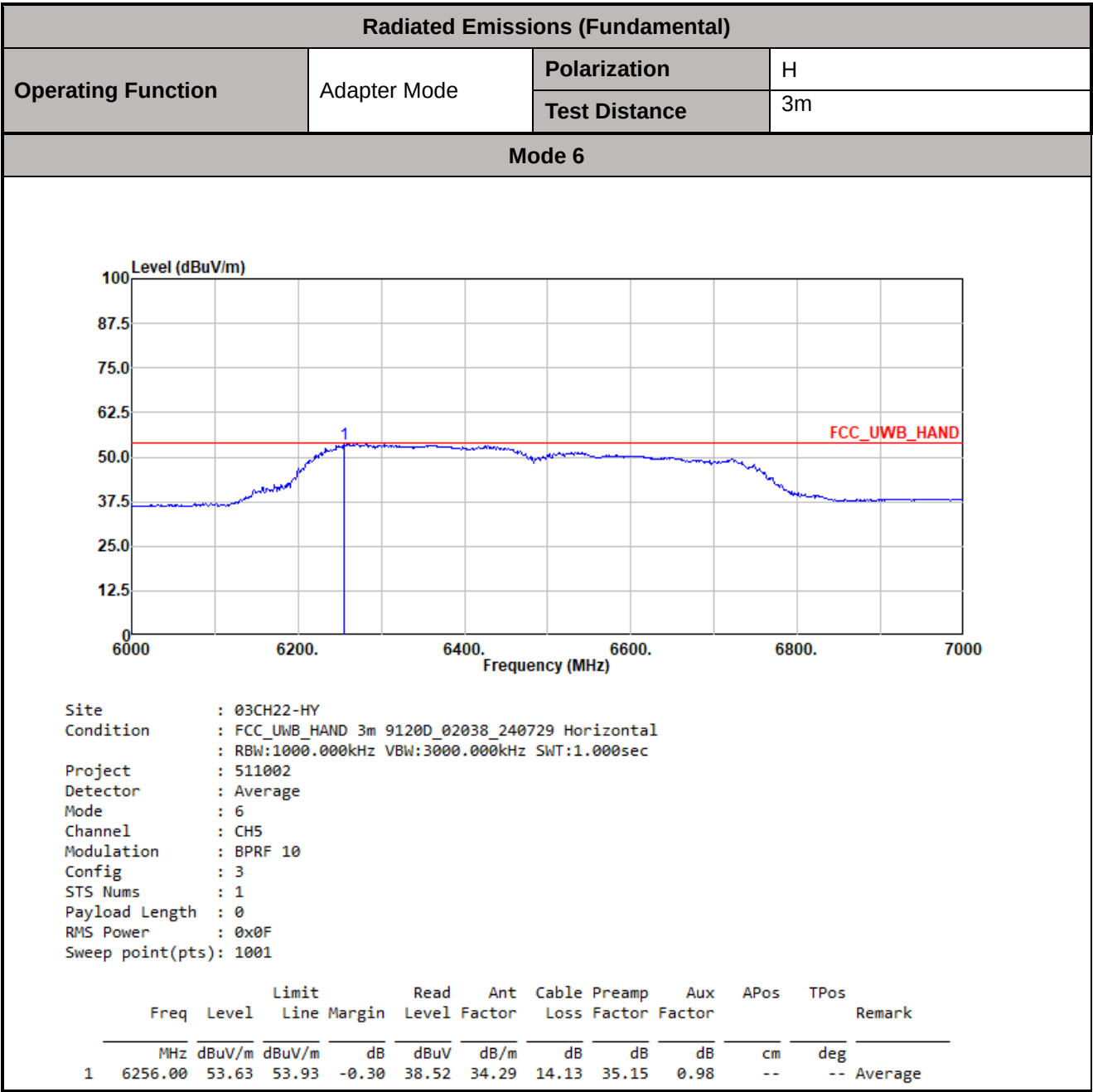
Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 5



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
RBW:1000.000kHz VBW:3000.000kHz SWT:1.000sec
Project : 511002
Detector : Average
Mode : 5
Channel : CH5
Modulation : BPRF 9
Config : 3
STS Num : 1
Payload Length : 0
RMS Power : 0x0F
Sweep point(pts): 1001

1	Freq		Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	Loss	Factor	Factor	dB	cm	deg	
1	6265.00	52.64	53.93		-1.29	37.53	34.27	14.15	35.15	0.98		--	--	Average

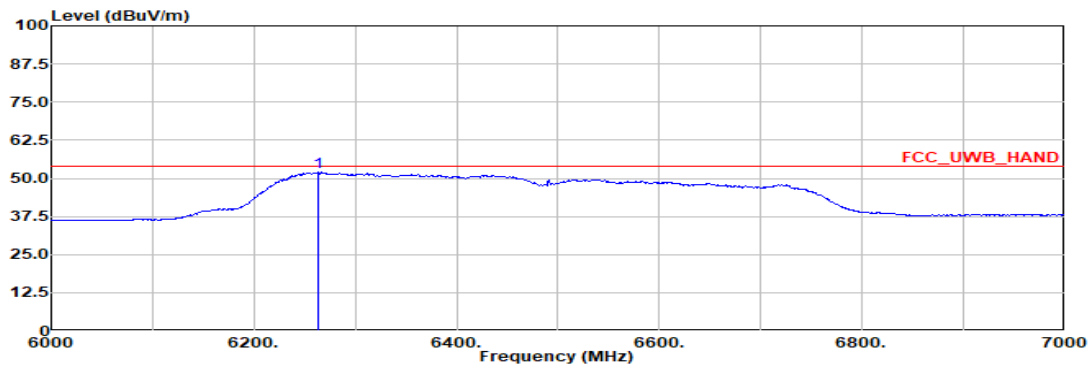




Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 7



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
RBW:1000.000kHz VBW:3000.000kHz SWT:1.000sec
Project : 511002
Detector : Average
Mode : 7
Channel : CH5
Modulation : HPRF 27
Config : 0
STS Num : 0
Payload Length : 255
RMS Power : 0x0F
Sweep point(pts): 1001

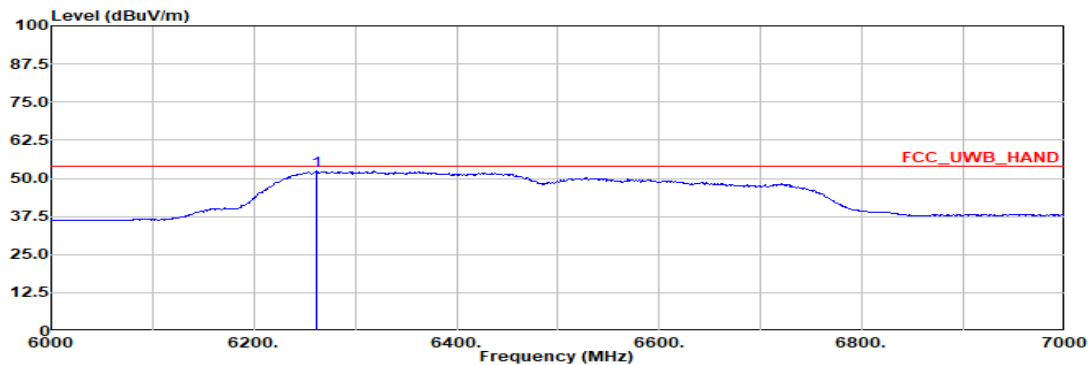
1	Freq		Limit		Margin	Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB		Level	Factor							
	6263.00	52.03	53.93	-1.90		36.93	34.27		14.14	35.15	0.98			Average



Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 8



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
RBW:1000.000kHz VBW:3000.000kHz SWT:1.000sec
Project : 511002
Detector : Average
Mode : 8
Channel : CH5
Modulation : HPRF 27
Config : 1
STS Num : 1
Payload Length : 255
RMS Power : 0x0F
Sweep point(pts): 1001

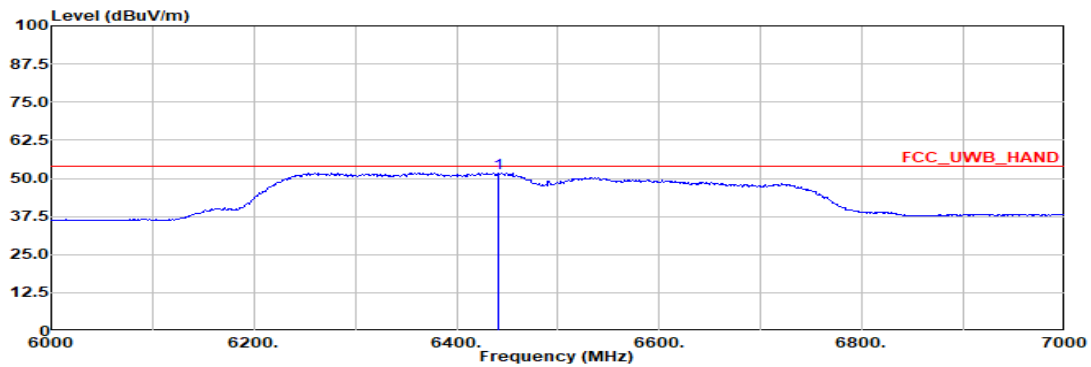
1	Freq		Limit		Margin	Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB		Level	Factor				Factor			
	6261.00	52.31	53.93	-1.62		37.20	34.28		14.14	35.15	0.98			Average



Radiated Emissions (Fundamental)

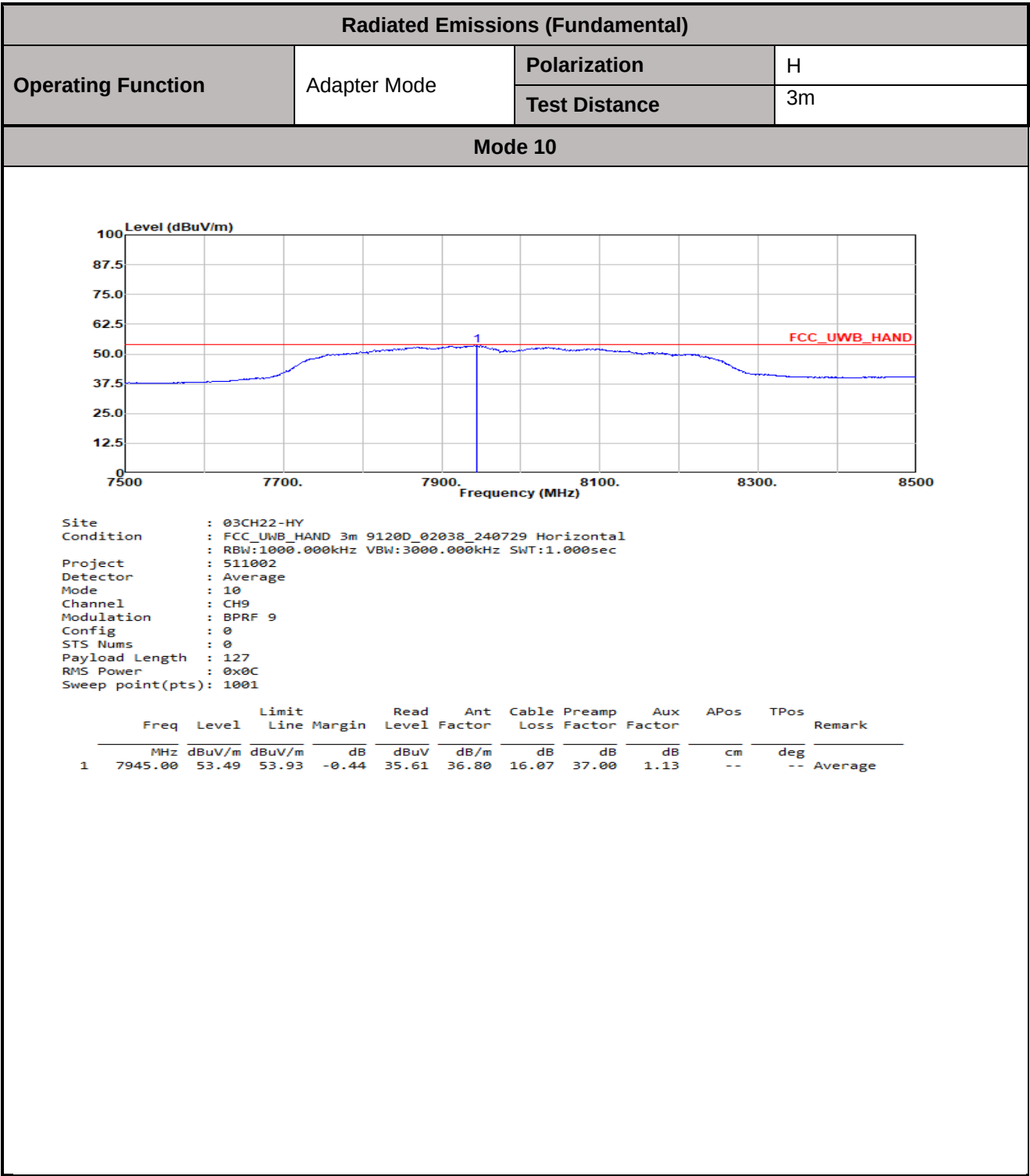
Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 9



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
RBW:1000.000kHz VBW:3000.000kHz SWT:1.000sec
Project : 511002
Detector : Average
Mode : 9
Channel : CH5
Modulation : HPRF 27
Config : 3
STS Num : 1
Payload Length : 0
RMS Power : 0x0F
Sweep point(pts): 1001

1	Freq		Level		Limit		Margin	Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		dB	dB							
1	6441.00	51.74	53.93	-2.19	35.93	34.76		14.40	35.22		1.02					Average

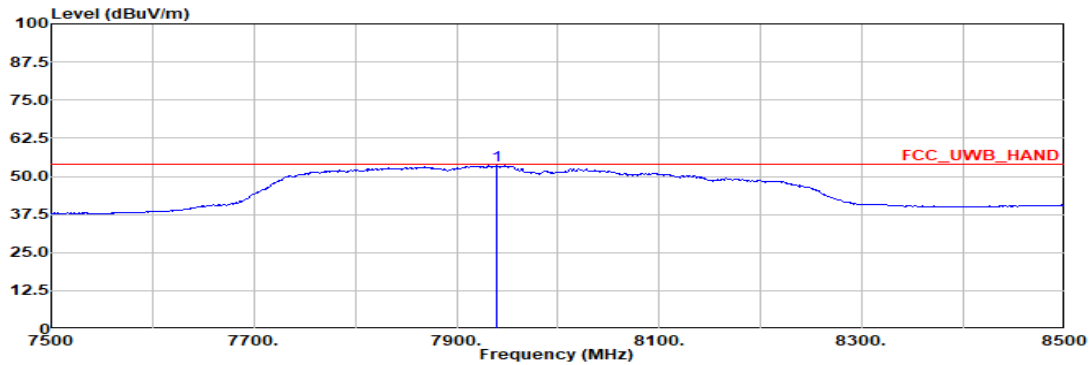




Radiated Emissions (Fundamental)

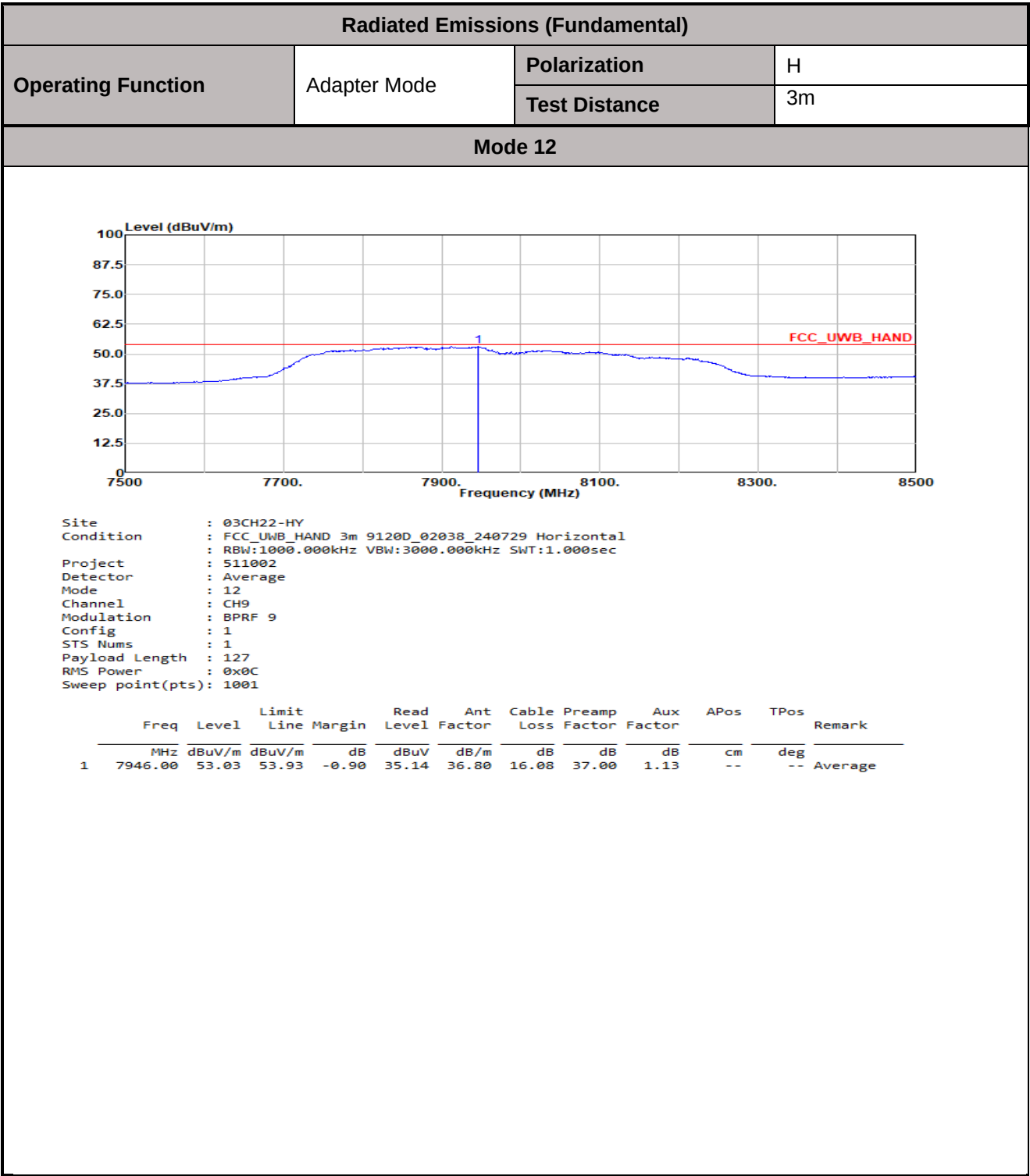
Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 11



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
RBW:1000.000kHz VBW:3000.000kHz SWT:1.000sec
Project : 511002
Detector : Average
Mode : 11
Channel : CH9
Modulation : BPRF 10
Config : 0
STS Num : 0
Payload Length : 127
RMS Power : 0x0C
Sweep point(pts): 1001

1	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	Average
1	7940.00	53.63	53.93		-0.30	35.74	36.80	16.07	36.99	1.13	--	--	Average

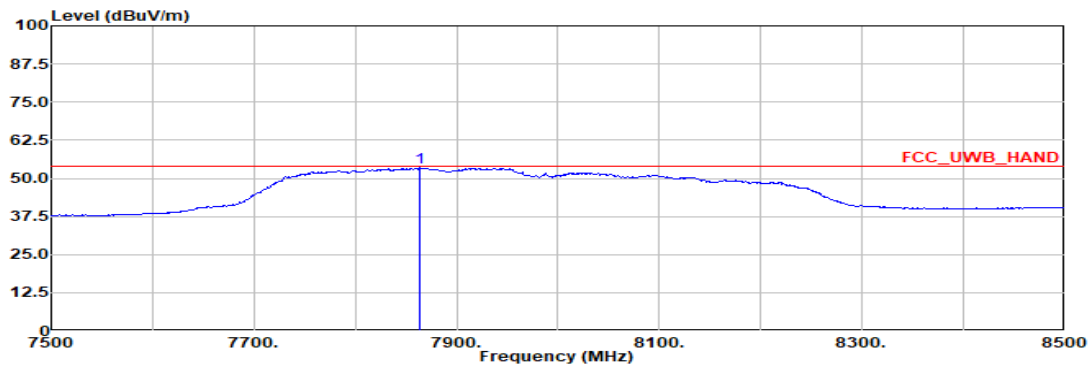




Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 13



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
Project : 511002
Detector : Average
Mode : 13
Channel : CH9
Modulation : BPRF 10
Config : 1
STS Num : 1
Payload Length : 127
RMS Power : 0x0C
Sweep point(pts): 1001

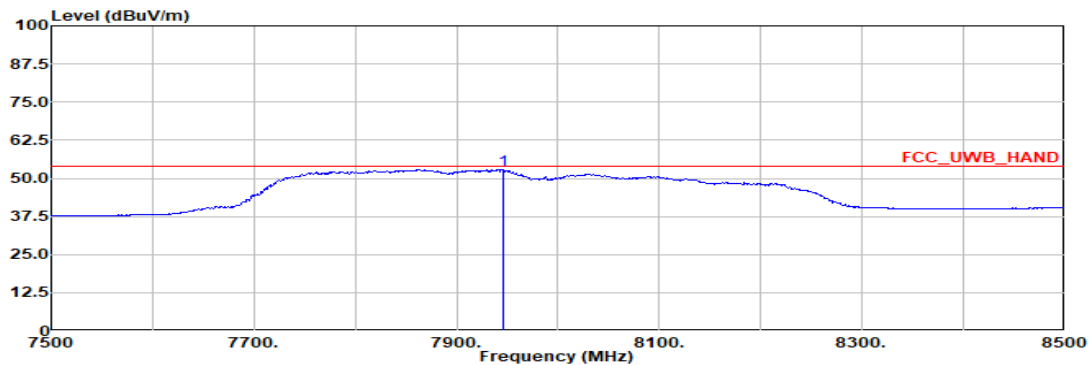
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	7863.00	53.41	53.93		-0.52	35.56	36.80	15.99	36.97	1.13	--	--	Average



Radiated Emissions (Fundamental)

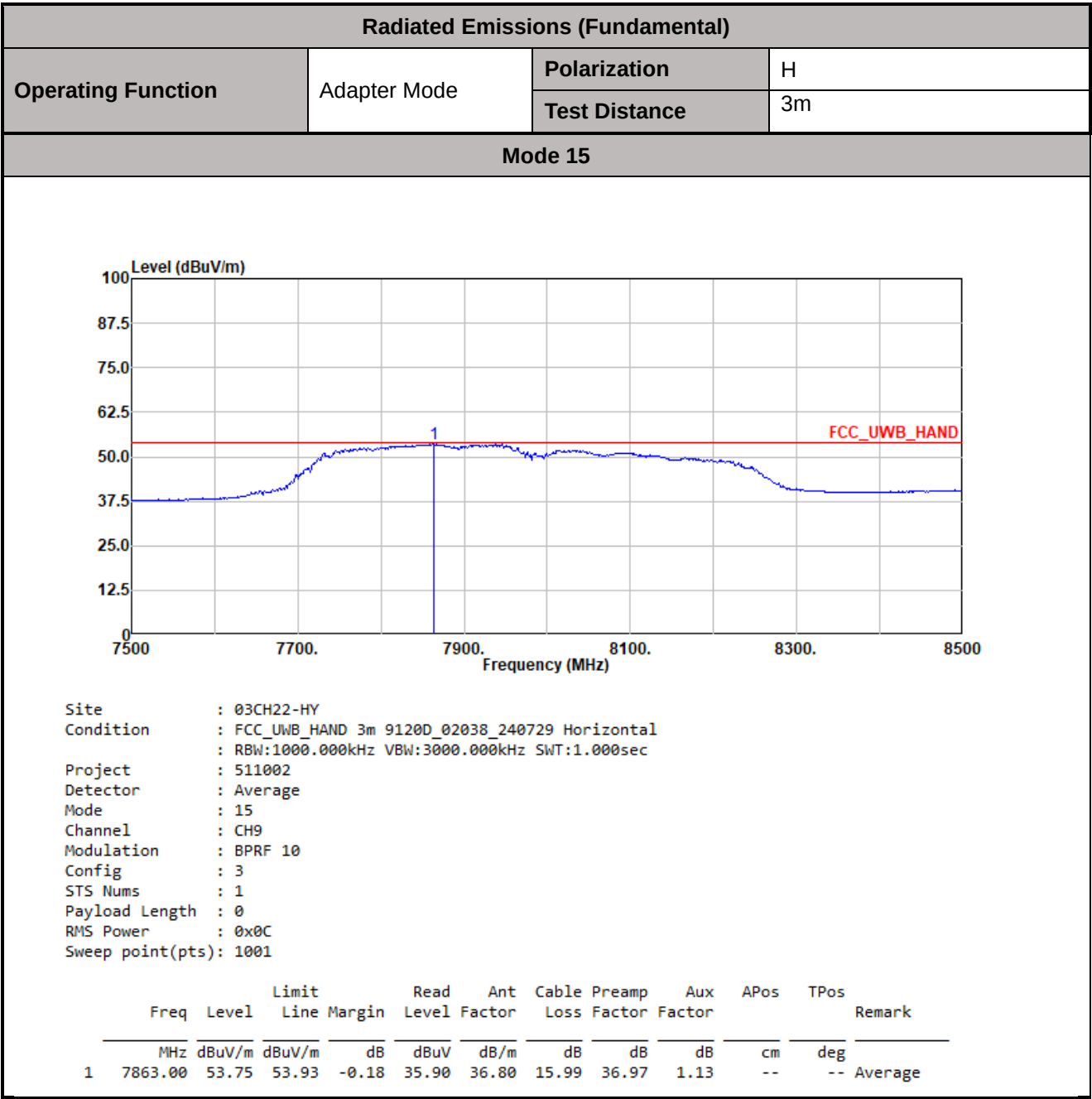
Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 14



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
Project : 511002
Detector : Average
Mode : 14
Channel : CH9
Modulation : BPRF 9
Config : 3
STS Num : 1
Payload Length : 0
RMS Power : 0x0C
Sweep point(pts): 1001

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 7946.00	52.98	53.93		-0.95	35.09	36.80	16.08	37.00	1.13	--	--	Average

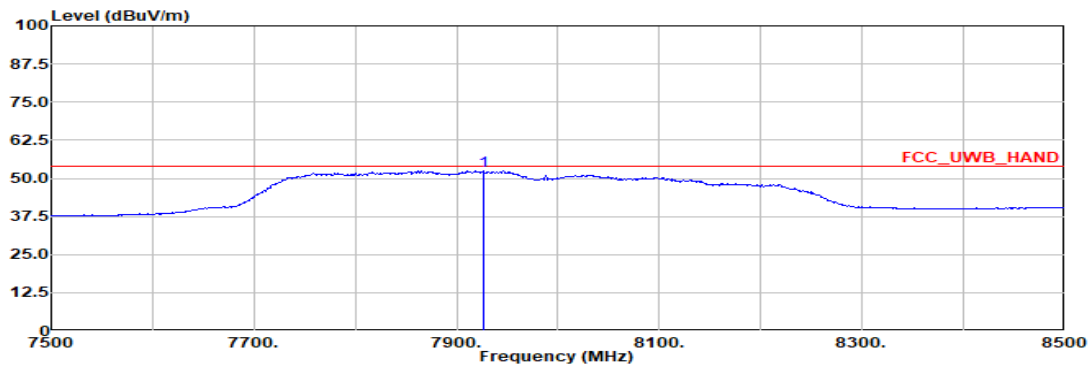




Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 16



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
RBW:1000.000kHz VBW:3000.000kHz SWT:1.000sec
Project : 511002
Detector : Average
Mode : 16
Channel : CH9
Modulation : HPRF 27
Config : 0
STS Nums : 0
Payload Length : 255
RMS Power : 0x0C
Sweep point(pts): 1001

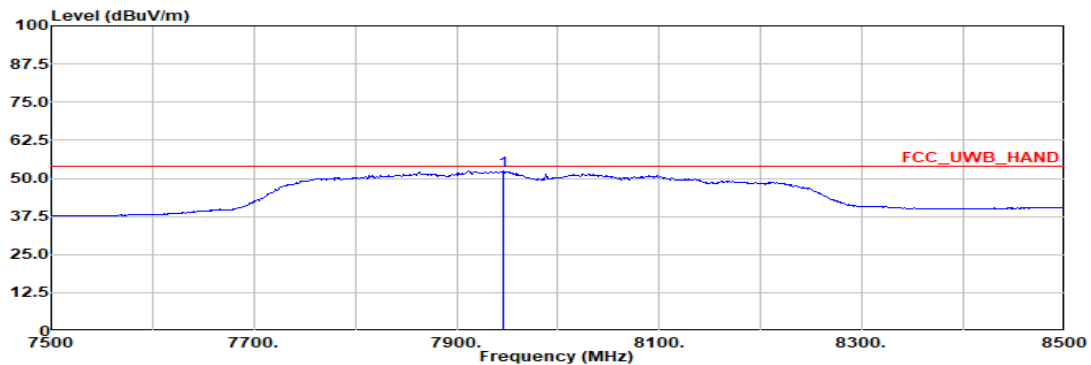
Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 7926.00	52.36	53.93		-1.57	34.48	36.80	16.06	36.99	1.13	--	--	Average



Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

Mode 17



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
Project : 511002
Detector : Average
Mode : 17
Channel : CH9
Modulation : HPRF 27
Config : 1
STS Nums : 1
Payload Length : 255
RMS Power : 0x0C
Sweep point(pts): 1001

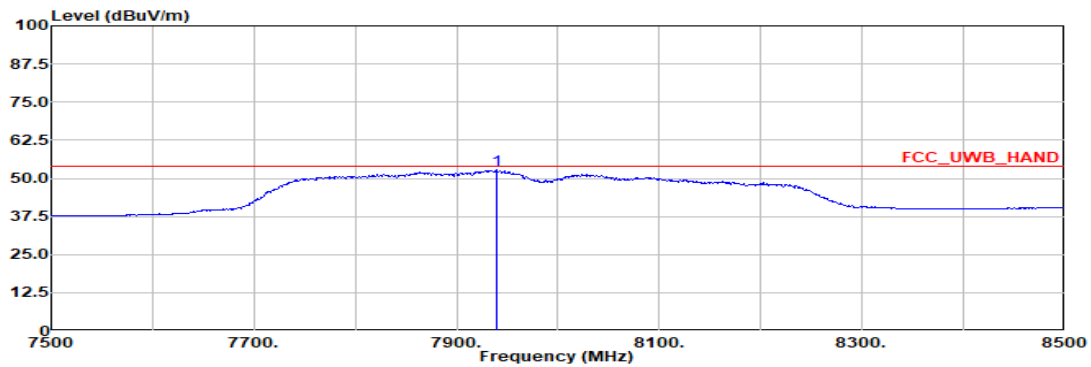
1	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
	7946.00	52.27	53.93		-1.66	34.38	36.80	16.08	37.00	1.13	--	--	Average



Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	H
		Test Distance	3m

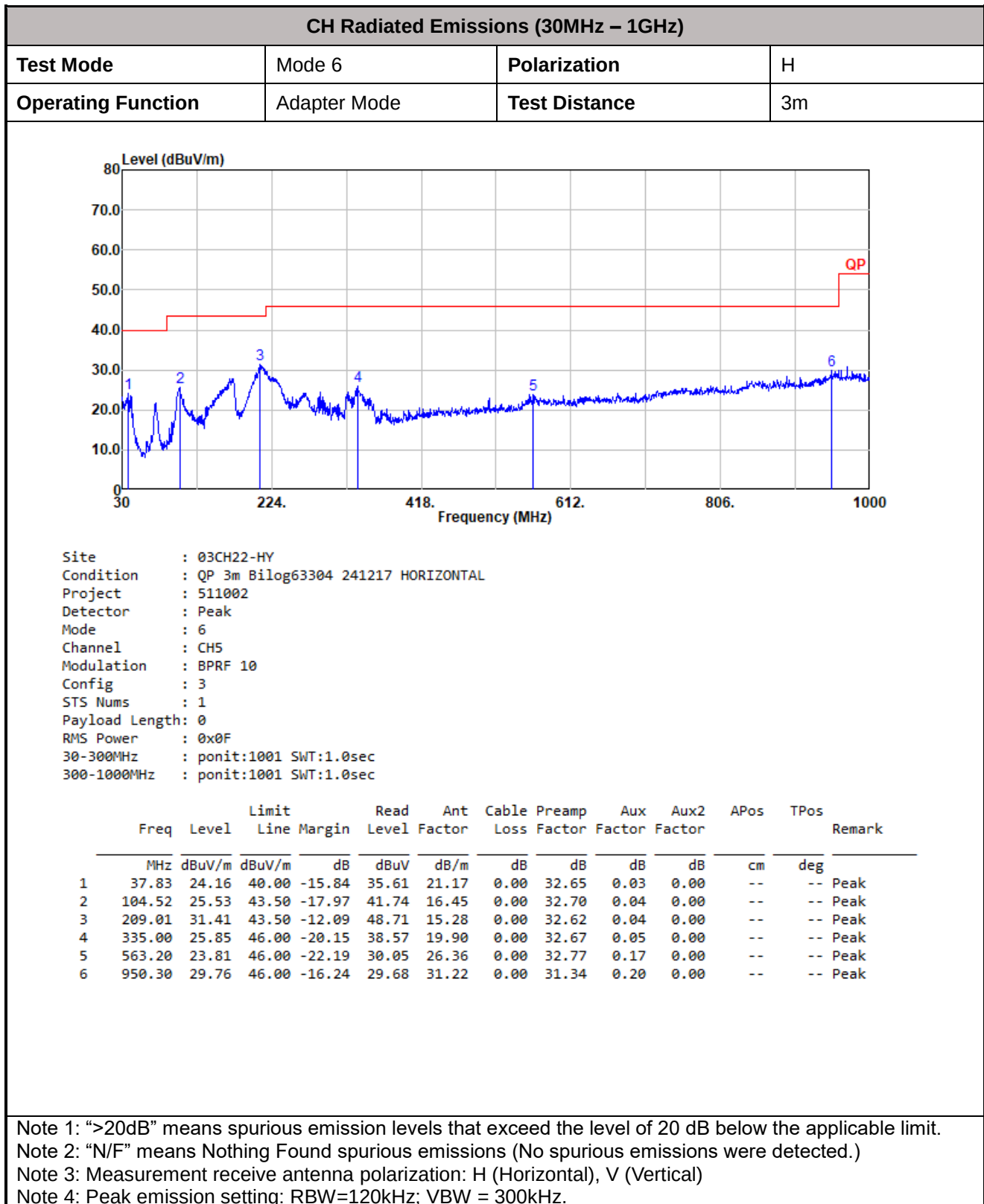
Mode 18



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
Project : 511002
Detector : Average
Mode : 18
Channel : CH9
Modulation : HPRF 27
Config : 3
STS Num : 1
Payload Length : 0
RMS Power : 0x0C
Sweep point(pts): 1001

1	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
	7939.00	52.65	53.93		-1.28	34.76	36.80	16.07	36.99	1.13	--	--	Average

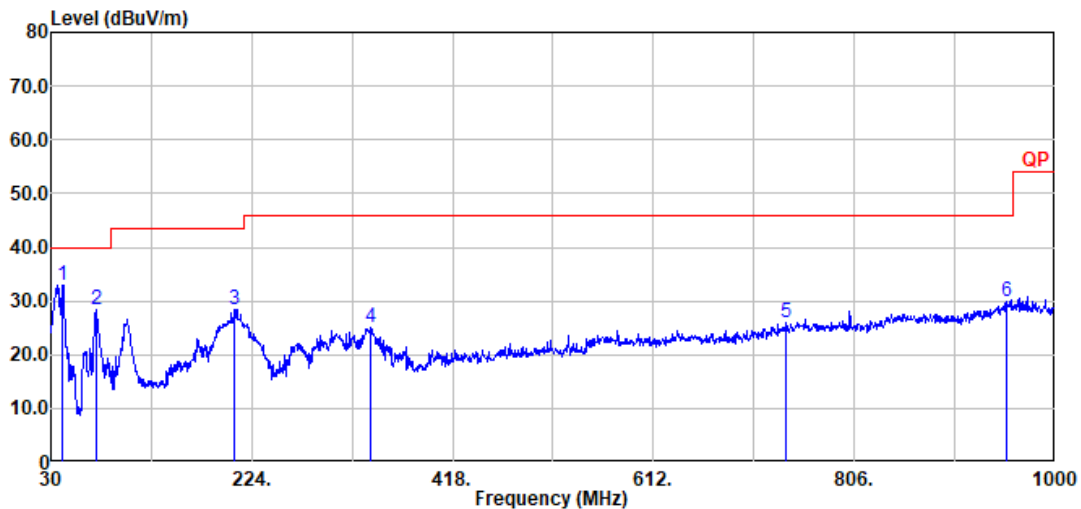
3.5.7 Radiated Emissions (30MHz – 1GHz)





CH Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : QP 3m Bilog63304 241217 VERTICAL
Project : 511002
Detector : Peak
Mode : 6
Channel : CH5
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0F
30-300MHz : ponit:1001 SWT:1.0sec
300-1000MHz : ponit:1001 SWT:1.0sec

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	Aux2 Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	41.61	33.01	40.00	-6.99	46.60	19.02	0.00	32.64	0.03	0.00	--	--	Peak
2	73.20	28.28	40.00	-11.72	48.45	12.50	0.00	32.70	0.03	0.00	--	--	Peak
3	207.12	28.46	43.50	-15.04	45.80	15.24	0.00	32.62	0.04	0.00	--	--	Peak
4	339.20	25.04	46.00	-20.96	37.59	20.07	0.00	32.67	0.05	0.00	--	--	Peak
5	740.30	26.08	46.00	-19.92	30.52	28.11	0.00	32.67	0.12	0.00	--	--	Peak
6	952.40	29.77	46.00	-16.23	29.55	31.34	0.00	31.32	0.20	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

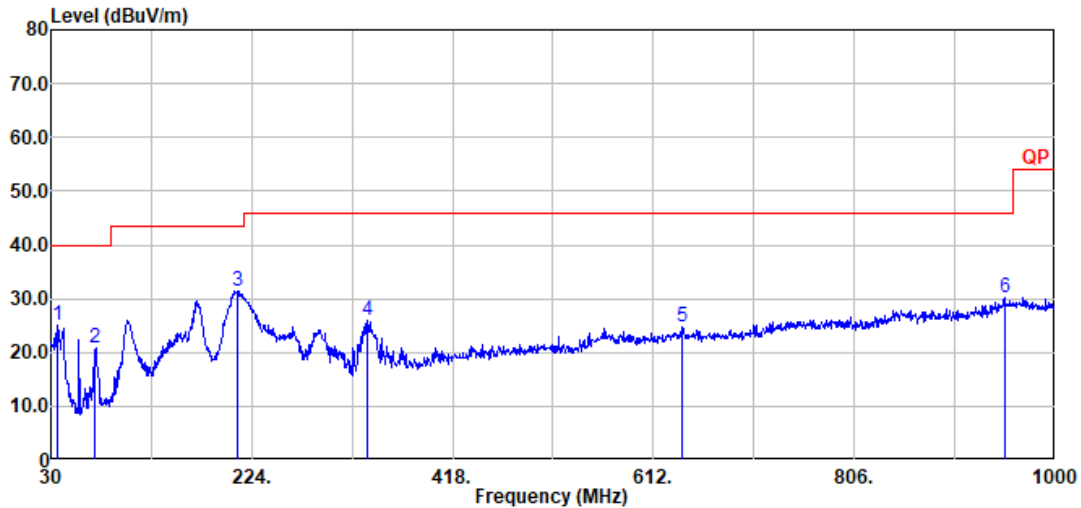
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.



CH Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : QP 3m Bilog63304 241217 HORIZONTAL
Project : 511002
Detector : Peak
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C
30-300MHz : ponit:1001 SWT:1.0sec
300-1000MHz : ponit:1001 SWT:1.0sec

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	36.21	25.10	40.00	-14.90	35.90	21.82	0.00	32.65	0.03	0.00	0.00	--	--	Peak
2	72.93	20.92	40.00	-19.08	41.08	12.51	0.00	32.70	0.03	0.00	0.00	--	--	Peak
3	210.63	31.45	43.50	-12.05	48.79	15.24	0.00	32.62	0.04	0.00	0.00	--	--	Peak
4	335.70	25.95	46.00	-20.05	38.64	19.93	0.00	32.67	0.05	0.00	0.00	--	--	Peak
5	639.50	24.68	46.00	-21.32	30.80	26.59	0.00	32.79	0.08	0.00	0.00	--	--	Peak
6	951.00	30.06	46.00	-15.94	29.93	31.26	0.00	31.33	0.20	0.00	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

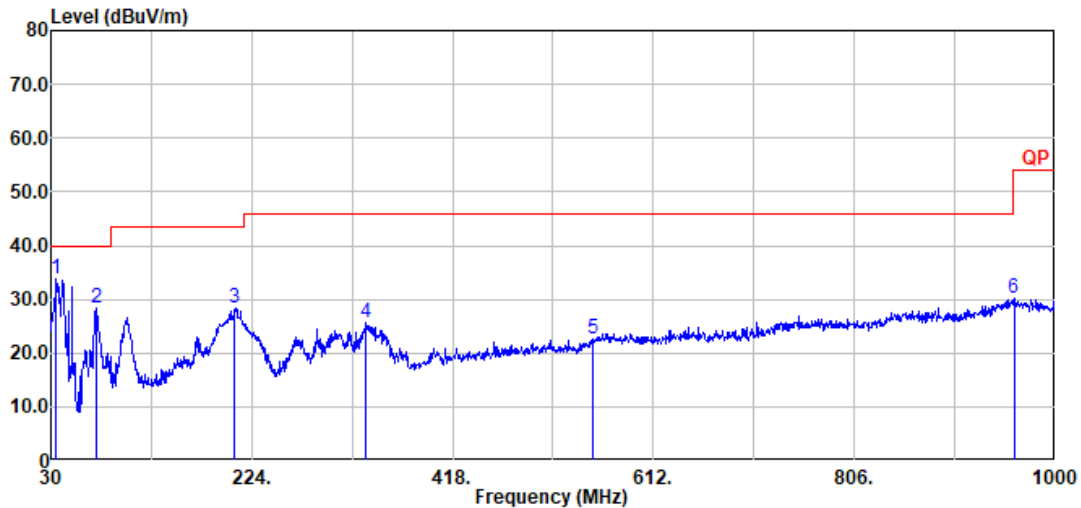
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.



CH Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : QP 3m Bilog63304 241217 VERTICAL
Project : 511002
Detector : Peak
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C
30-300MHz : ponit:1001 SWT:1.0sec
300-1000MHz : ponit:1001 SWT:1.0sec

	Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	
			Line	Margin	Level	Factor	Loss	Factor	Factor	Factor			Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	35.40	33.73	40.00	-6.27	43.91	22.44	0.00	32.65	0.03	0.00	--	--	Peak
2	73.20	28.40	40.00	-11.60	48.57	12.50	0.00	32.70	0.03	0.00	--	--	Peak
3	207.66	28.45	43.50	-15.05	45.78	15.25	0.00	32.62	0.04	0.00	--	--	Peak
4	334.30	25.64	46.00	-20.36	38.36	19.89	0.00	32.66	0.05	0.00	--	--	Peak
5	553.40	22.70	46.00	-23.30	29.71	25.58	0.00	32.77	0.18	0.00	--	--	Peak
6	960.10	30.22	54.00	-23.78	29.75	31.50	0.00	31.24	0.21	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

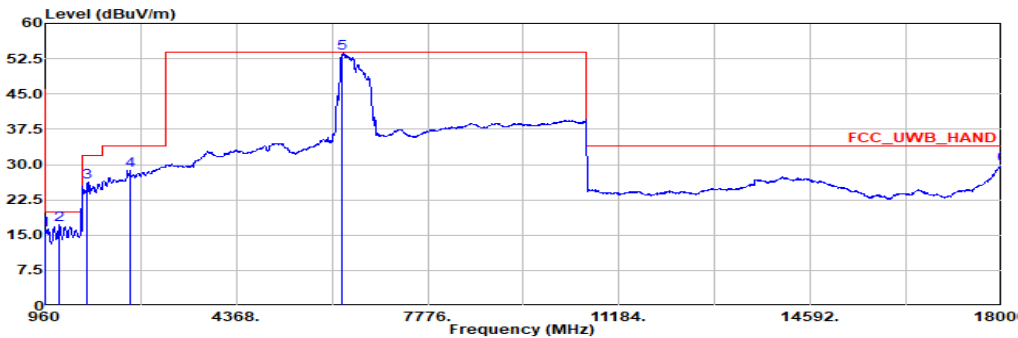
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.



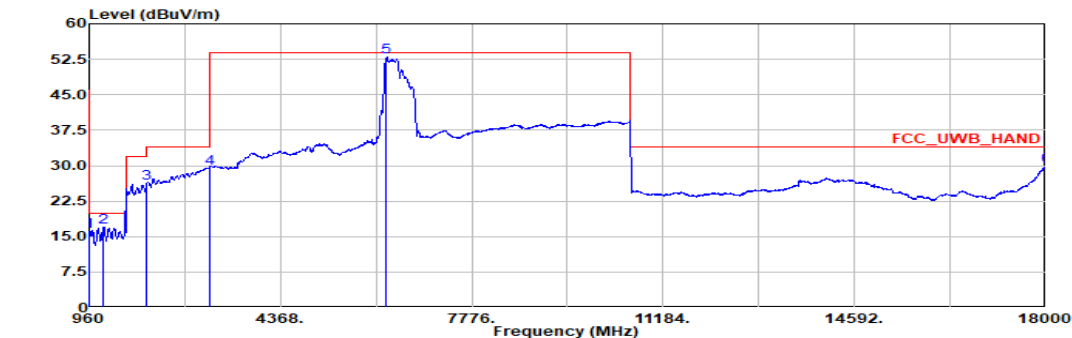
3.5.8 Radiated Emissions (960MHz – 18GHz)

CH05 Radiated Emissions (960MHz – 18GHz)																																																																																																																																					
Test Mode	Mode 6				Polarization				H																																																																																																																												
Operating Function	Adapter Mode																																																																																																																																				
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.																																																																																																																																				
 Site : 03CH22-HY Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal Project : 511002 Detector : Average Mode : 6 Channel : CH5 Modulation : BPRF 10 Config : 3 STS Num : 1 Payload Length : 0 RMS Power : 0x0F 960-1000MHz : ponit:1001 SWT:1.0sec 1000-1610MHz : ponit:1001 SWT:1.0sec 1610-1990MHz : ponit:1001 SWT:1.0sec 1990-3100MHz : ponit:2001 SWT:2.0sec 3100-10600MHz : ponit:18001 SWT:18.0sec 10600-18000MHz : ponit:18001 SWT:18.0sec <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>Aux2</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>965.24</td><td>16.07</td><td>19.93</td><td></td><td>-3.86</td><td>25.73</td><td>31.40</td><td>5.46</td><td>31.18</td><td>0.22</td><td>-15.56</td><td>--</td><td>--</td><td>Average</td></tr><tr><td>2</td><td>1212.89</td><td>17.10</td><td>19.93</td><td></td><td>-2.83</td><td>26.30</td><td>26.17</td><td>6.11</td><td>31.94</td><td>-9.54</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr><tr><td>3</td><td>1712.22</td><td>26.33</td><td>31.93</td><td></td><td>-5.60</td><td>25.93</td><td>25.18</td><td>7.32</td><td>32.10</td><td>0.00</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr><tr><td>4</td><td>2465.08</td><td>28.86</td><td>33.93</td><td></td><td>-5.07</td><td>25.13</td><td>27.60</td><td>8.77</td><td>32.64</td><td>0.00</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr><tr><td>5</td><td>6257.50</td><td>53.62</td><td>53.93</td><td></td><td>-0.31</td><td>40.35</td><td>34.28</td><td>14.14</td><td>35.15</td><td>0.00</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr><tr><td>6</td><td>18000.00</td><td>29.96</td><td>33.93</td><td></td><td>-3.97</td><td>23.47</td><td>42.80</td><td>24.74</td><td>45.49</td><td>-15.56</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr></table>															Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark		MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg		1	965.24	16.07	19.93		-3.86	25.73	31.40	5.46	31.18	0.22	-15.56	--	--	Average	2	1212.89	17.10	19.93		-2.83	26.30	26.17	6.11	31.94	-9.54	0.00	--	--	Average	3	1712.22	26.33	31.93		-5.60	25.93	25.18	7.32	32.10	0.00	0.00	--	--	Average	4	2465.08	28.86	33.93		-5.07	25.13	27.60	8.77	32.64	0.00	0.00	--	--	Average	5	6257.50	53.62	53.93		-0.31	40.35	34.28	14.14	35.15	0.00	0.00	--	--	Average	6	18000.00	29.96	33.93		-3.97	23.47	42.80	24.74	45.49	-15.56	0.00	--	--	Average
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark																																																																																																																							
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg																																																																																																																								
1	965.24	16.07	19.93		-3.86	25.73	31.40	5.46	31.18	0.22	-15.56	--	--	Average																																																																																																																							
2	1212.89	17.10	19.93		-2.83	26.30	26.17	6.11	31.94	-9.54	0.00	--	--	Average																																																																																																																							
3	1712.22	26.33	31.93		-5.60	25.93	25.18	7.32	32.10	0.00	0.00	--	--	Average																																																																																																																							
4	2465.08	28.86	33.93		-5.07	25.13	27.60	8.77	32.64	0.00	0.00	--	--	Average																																																																																																																							
5	6257.50	53.62	53.93		-0.31	40.35	34.28	14.14	35.15	0.00	0.00	--	--	Average																																																																																																																							
6	18000.00	29.96	33.93		-3.97	23.47	42.80	24.74	45.49	-15.56	0.00	--	--	Average																																																																																																																							
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz. Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz. Note 6: #5 is fundamental signal. Note 7: Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB) Example: Distance extrapolation factor = 20log (0.5m/3m) = -15.56 (dB) Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) + Aux 2 Factor (dB) = Level (dBuV/m) (Note: For test item below 1GHz, Aux = Filter loss; Aux 2 = Distance extrapolation factor) (Note: For test item above 1GHz, Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter) Example: Corrected Reading: 31.40 (dB/m) + 5.46 (dB) + 25.73 (dBuV) – 31.18 (dB) + 0.22 (dB) + (-15.56) (dB) = 16.07 (dBuV/m)																																																																																																																																					



CH Radiated Emissions (960MHz – 18GHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Vertical
Project : 511002
Detector : Average
Mode : 6
Channel : CH5
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0F
960-1000MHz : ponit:1001 SWT:1.0sec
1000-1610MHz : ponit:1001 SWT:1.0sec
1610-1990MHz : ponit:1001 SWT:1.0sec
1990-3100MHz : ponit:2001 SWT:2.0sec
3100-10600MHz : ponit:18001 SWT:18.0sec
10600-18000MHz : ponit:18001 SWT:18.0sec

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	966.60	16.11	19.93	-3.82	25.79	31.37	5.46	31.17	0.22	-15.56	--	--	--	Average
2	1211.67	17.06	19.93	-2.87	26.26	26.18	6.10	31.94	-9.54	0.00	--	--	--	Average
3	1990.00	26.21	31.93	-5.72	24.17	26.60	7.76	32.32	0.00	0.00	--	--	--	Average
4	3100.00	29.54	33.93	-4.39	22.92	29.60	9.87	32.85	0.00	0.00	--	--	--	Average
5	6257.50	52.89	53.93	-1.04	39.62	34.28	14.14	35.15	0.00	0.00	--	--	--	Average
6	18000.00	29.89	33.93	-4.04	23.40	42.80	24.74	45.49	-15.56	0.00	--	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

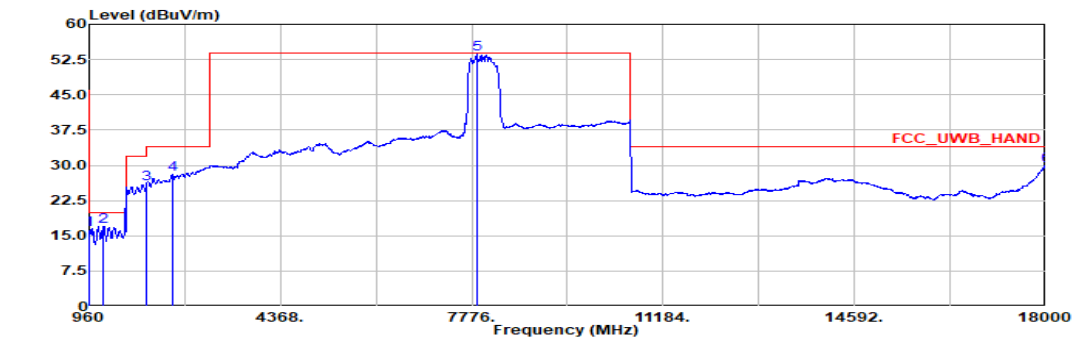
Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBUV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBUV/m)
(Note: For test item below 1GHz, Aux = Filter loss; Aux 2 = Distance extrapolation factor)
(Note: For test item above 1GHz, Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter)



CH Radiated Emissions (960MHz – 18GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Horizontal
Project : 511002
Detector : Average
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C
960-1000MHz : ponit:1001 SWT:1.0sec
1000-1610MHz : ponit:1001 SWT:1.0sec
1610-1990MHz : ponit:1001 SWT:1.0sec
1990-3100MHz : ponit:2001 SWT:2.0sec
3100-10600MHz : ponit:18001 SWT:18.0sec
10600-18000MHz : ponit:18001 SWT:18.0sec

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	Loss	Factor	Factor	Factor	cm	deg	
1	969.12	16.21	19.93	-3.72	25.90	31.32	5.47	31.14	0.22	-15.56	--	--	Average
2	1212.89	17.04	19.93	-2.89	26.24	26.17	6.11	31.94	-9.54	0.00	--	--	Average
3	1989.24	26.09	31.93	-5.84	24.07	26.58	7.76	32.32	0.00	0.00	--	--	Average
4	2436.22	28.00	33.93	-5.93	24.30	27.60	8.72	32.62	0.00	0.00	--	--	Average
5	7870.00	53.75	53.93	-0.18	37.93	36.80	16.00	36.98	0.00	0.00	--	--	Average
6	18000.00	29.85	33.93	-4.08	23.36	42.80	24.74	45.49	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

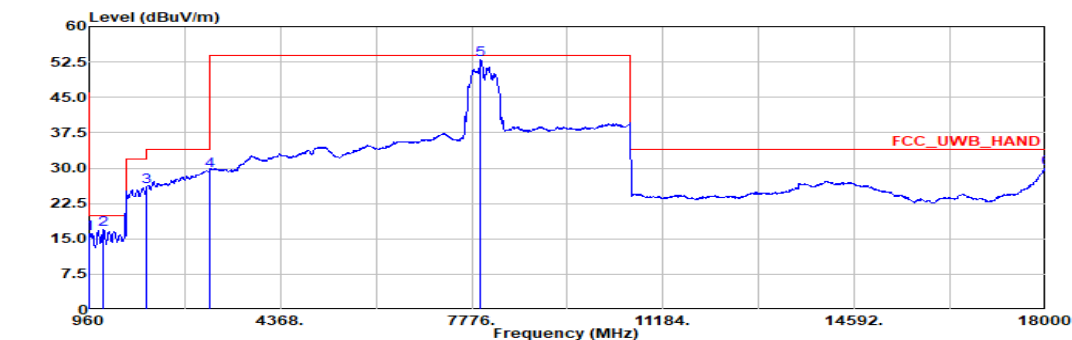
Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBUV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBUV/m)
(Note: For test item below 1GHz, Aux = Filter loss; Aux 2 = Distance extrapolation factor)
(Note: For test item above 1GHz, Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter)



CH Radiated Emissions (960MHz – 18GHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Site : 03CH22-HY
Condition : FCC_UWB_HAND 3m 9120D_02038_240729 Vertical
Project : 511002
Detector : Average
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C
960-1000MHz : ponit:1001 SWT:1.0sec
1000-1610MHz : ponit:1001 SWT:1.0sec
1610-1990MHz : ponit:1001 SWT:1.0sec
1990-3100MHz : ponit:2001 SWT:2.0sec
3100-10600MHz : ponit:18001 SWT:18.0sec
10600-18000MHz : ponit:18001 SWT:18.0sec

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	967.12	16.09	19.93	-3.84	25.78	31.36	5.46	31.17	0.22	-15.56	--	--	Average
2	1212.89	16.96	19.93	-2.97	26.16	26.17	6.11	31.94	-9.54	0.00	--	--	Average
3	1990.00	26.07	31.93	-5.86	24.03	26.60	7.76	32.32	0.00	0.00	--	--	Average
4	3100.00	29.51	33.93	-4.42	22.89	29.60	9.87	32.85	0.00	0.00	--	--	Average
5	7937.50	53.06	53.93	-0.87	37.18	36.80	16.07	36.99	0.00	0.00	--	--	Average
6	18000.00	29.89	33.93	-4.04	23.40	42.80	24.74	45.49	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

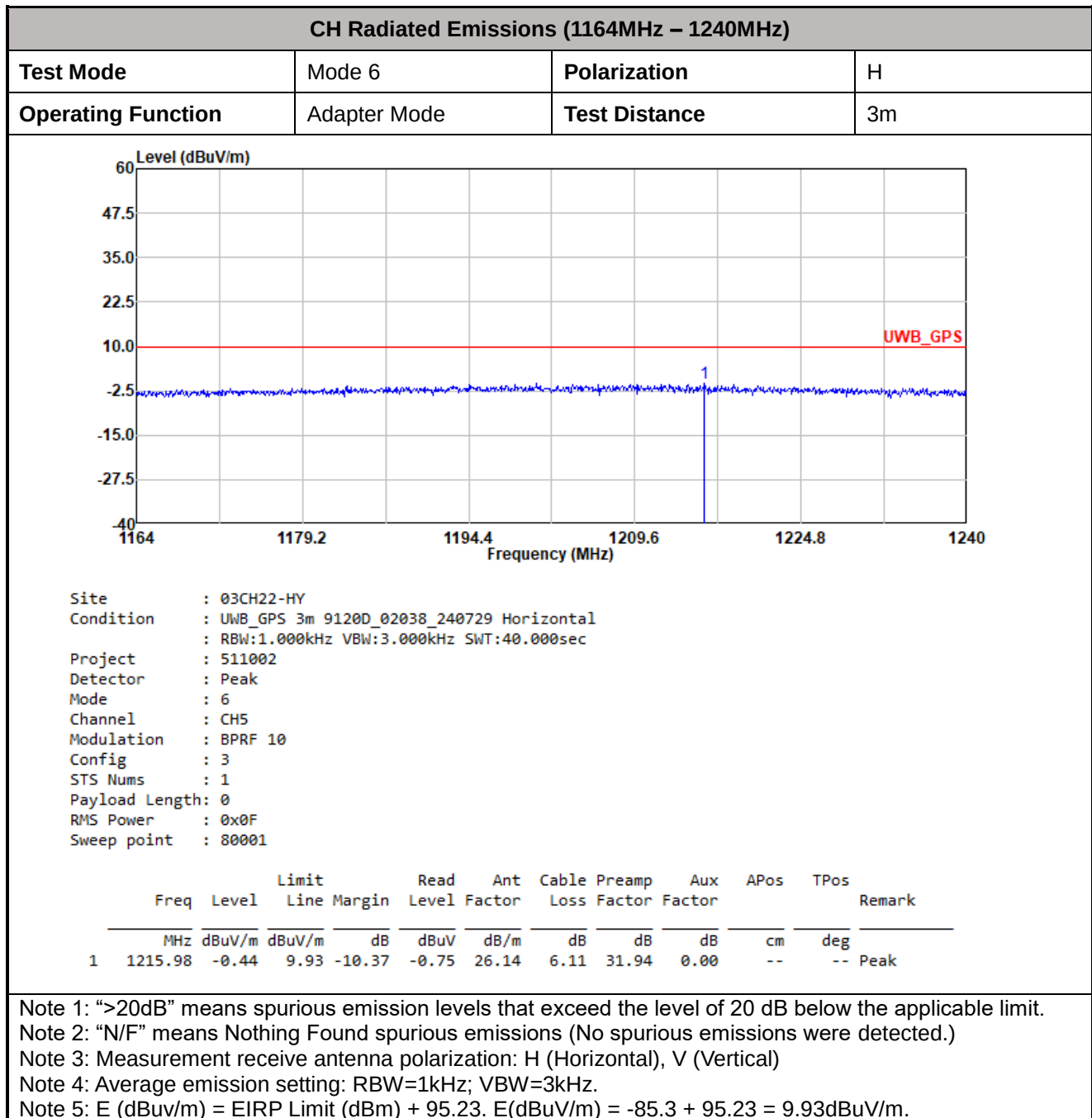
Note 6: #5 is fundamental signal.

Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m)
(Note: For test item below 1GHz, Aux = Filter loss; Aux 2 = Distance extrapolation factor)
(Note: For test item above 1GHz, Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter)



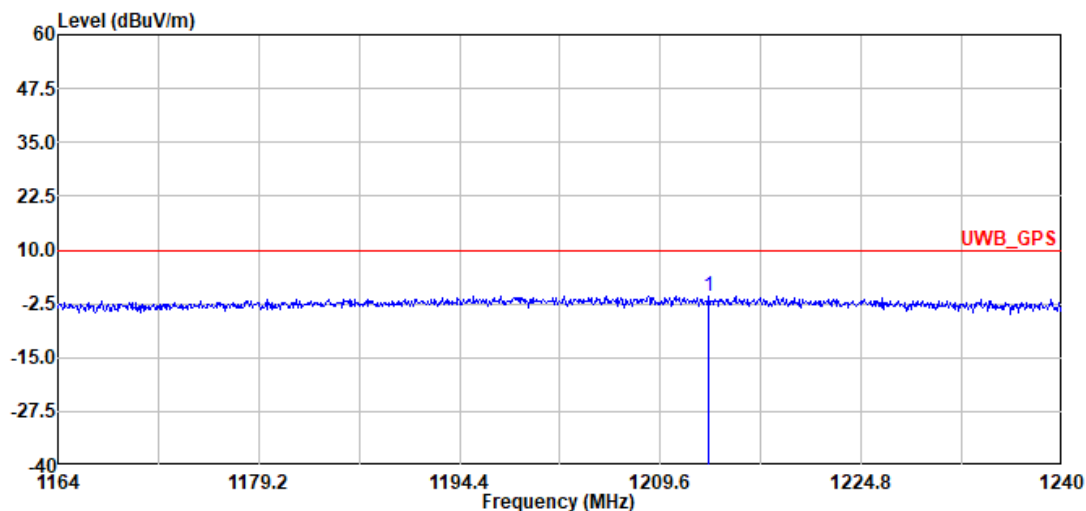
3.5.9 Radiated Emissions (1164MHz – 1240MHz)





CH Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : UWB_GPS 3m 9120D_02038_240729 Vertical
: RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 511002
Detector : Peak
Mode : 6
Channel : CH5
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0F
Sweep point : 80001

1	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1213.25	-0.62	9.93		-10.55	-0.96	26.17	6.11	31.94	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

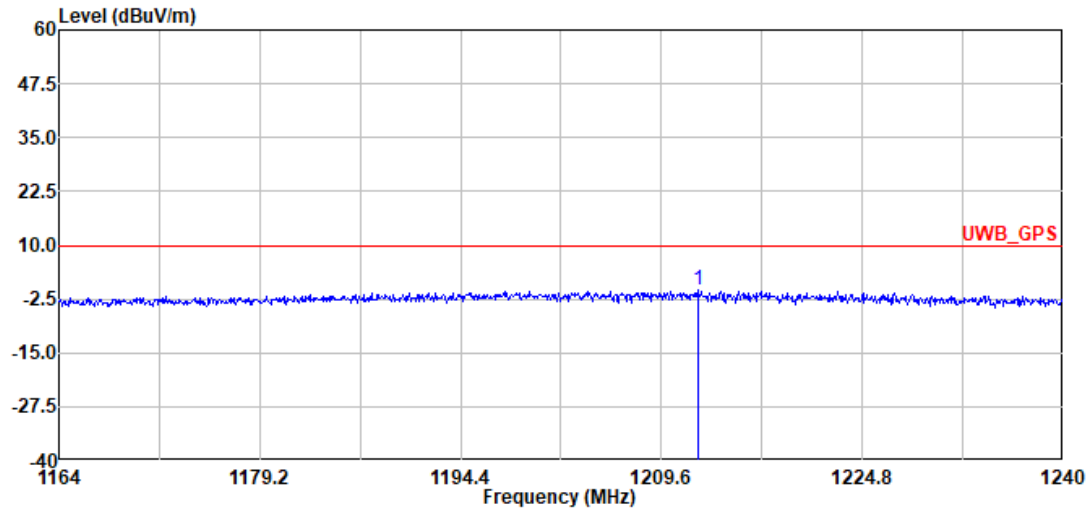
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: $E \text{ (dBUV/m)} = \text{EIRP Limit (dBm)} + 95.23$. $E \text{ (dBUV/m)} = -85.3 + 95.23 = 9.93 \text{ dBUV/m}$.



CH Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : UWB_GPS 3m 9120D_02038_240729 Horizontal
: RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 511002
Detector : Peak
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C
Sweep point : 80001

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1212.34	-0.27	9.93	-10.20	-0.61	26.18	6.10	31.94	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

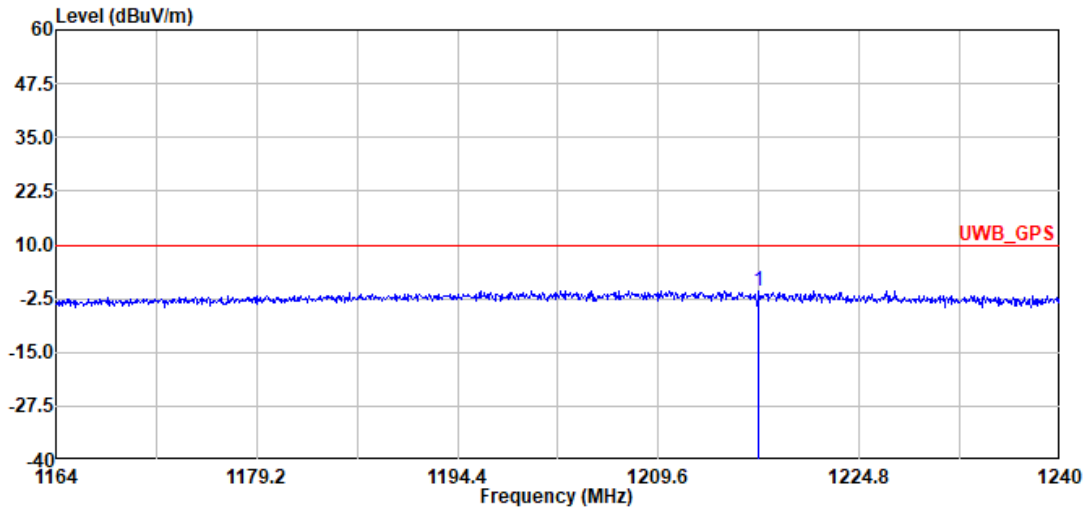
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: $E \text{ (dBuV/m)} = \text{EIRP Limit (dBm)} + 95.23$. $E \text{ (dBuV/m)} = -85.3 + 95.23 = 9.93 \text{ dBuV/m}$.



CH Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : UWB_GPS 3m 9120D_02038_240729 Vertical
RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 511002
Detector : Peak
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C
Sweep point : 80001

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 1217.20	-0.58	9.93		-10.51	-0.89	26.13	6.12	31.94	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

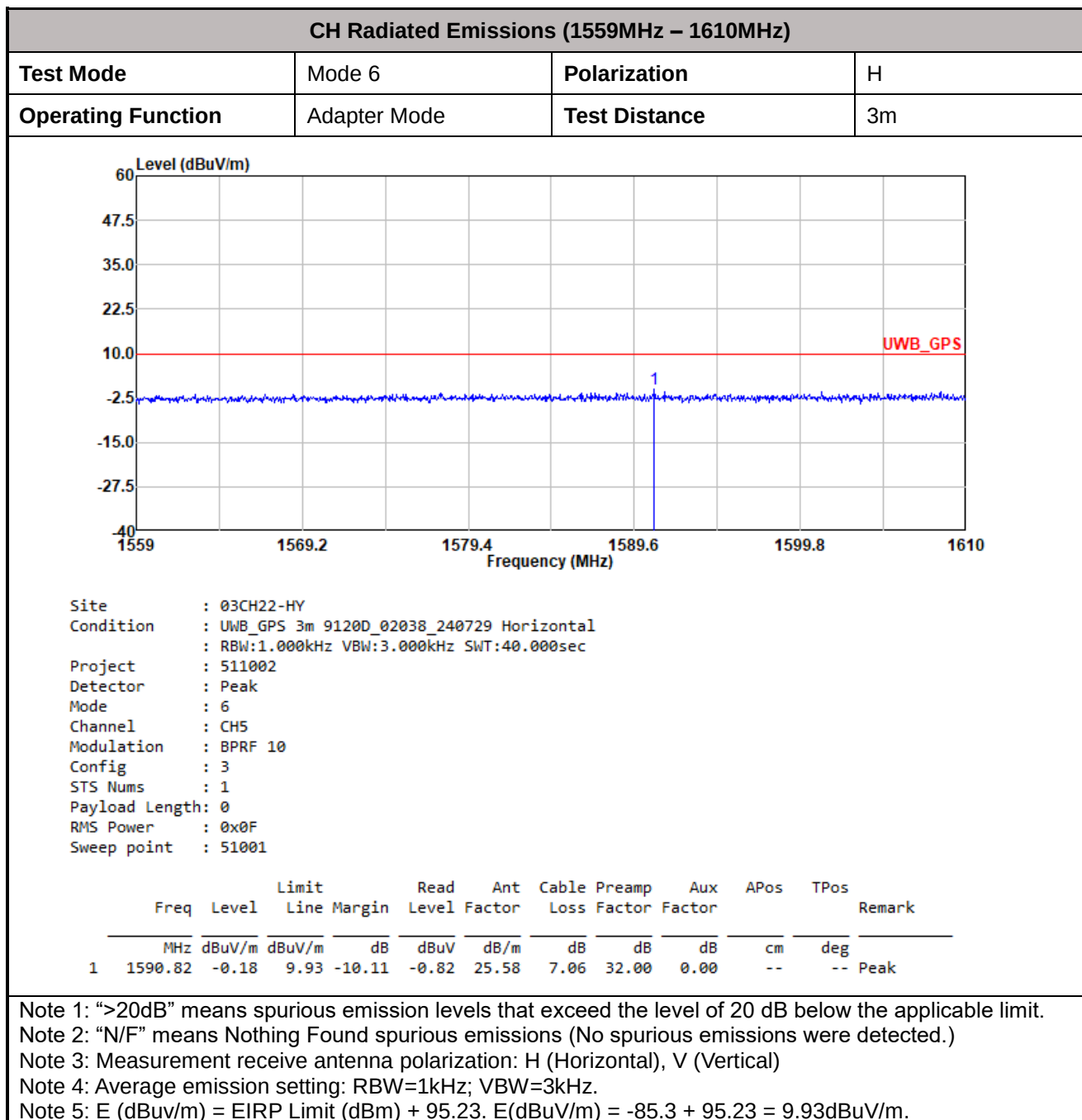
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: $E \text{ (dBuV/m)} = \text{EIRP Limit (dBm)} + 95.23$. $E \text{ (dBuV/m)} = -85.3 + 95.23 = 9.93 \text{ dBuV/m}$.



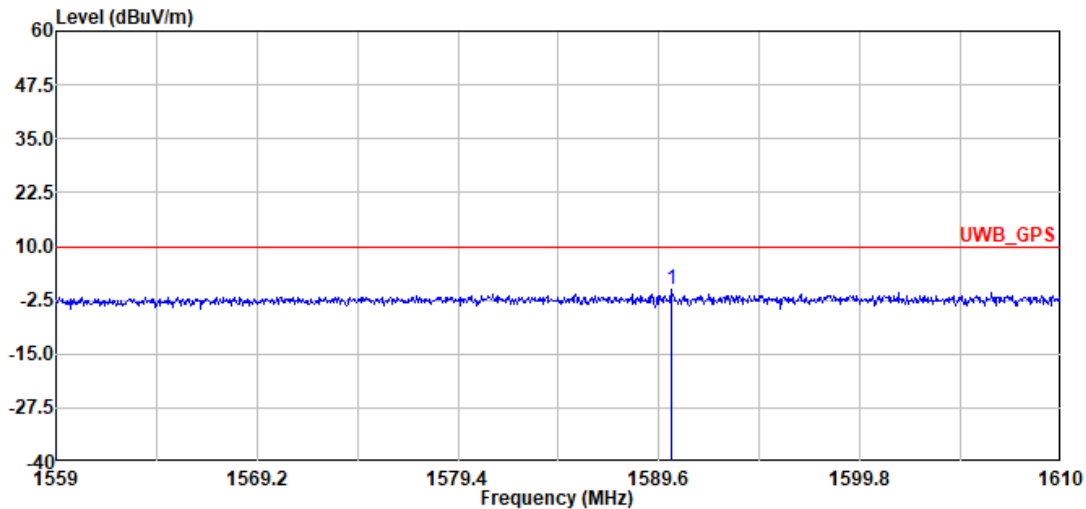
3.5.10 Radiated Emissions (1559MHz – 1610MHz)





CH Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : UWB_GPS 3m 9120D_02038_240729 Vertical
RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 511002
Detector : Peak
Mode : 6
Channel : CH5
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0F
Sweep point : 51001

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 1590.26	-0.08	9.93		-10.01	-0.73	25.59	7.06	32.00	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

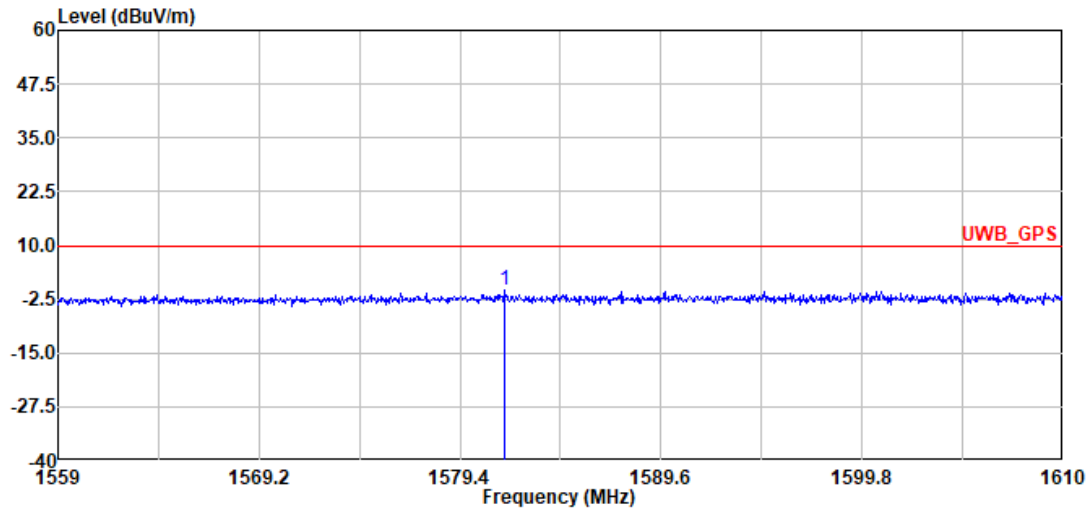
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: $E \text{ (dBuV/m)} = \text{EIRP Limit (dBm)} + 95.23$. $E \text{ (dBuV/m)} = -85.3 + 95.23 = 9.93 \text{ dBuV/m}$.



CH Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : UWB_GPS 3m 9120D_02038_240729 Vertical
RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 511002
Detector : Peak
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C
Sweep point : 51001

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 1581.70	-0.56	9.93		-10.49	-1.12	25.52	7.04	32.00	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

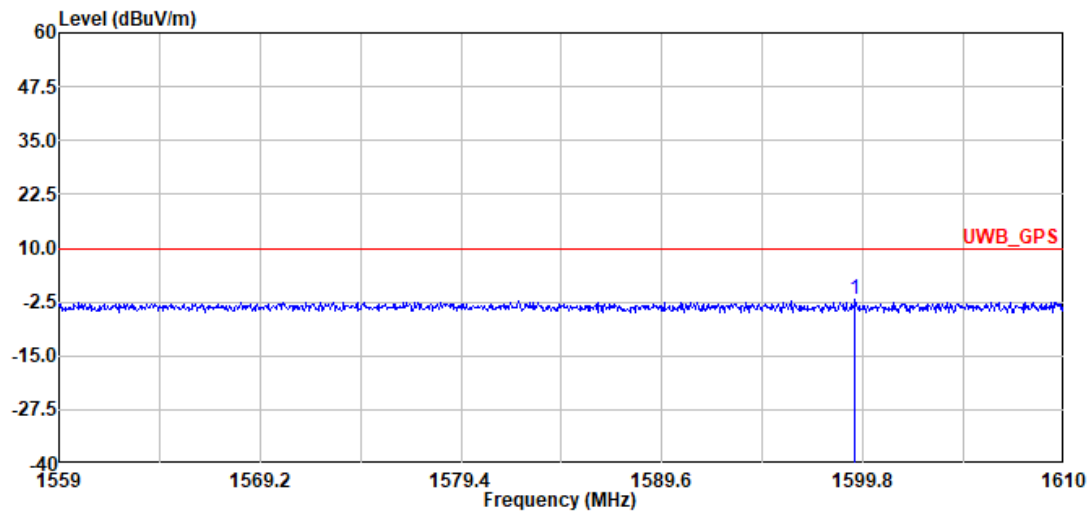
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: $E \text{ (dBuV/m)} = \text{EIRP Limit (dBm)} + 95.23$. $E \text{ (dBuV/m)} = -85.3 + 95.23 = 9.93 \text{ dBuV/m}$.



CH Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
Condition : UWB_GPS 3m DRH18_E_LE2C04A18EN_240711 Vertical
RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 4D1914
Detector : Peak
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x0C

Freq	Level	Limit	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg
1 1599.39	-1.81	9.93	-11.74	-1.37	24.49	7.08	32.01	0.00	0.00	--	-- Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

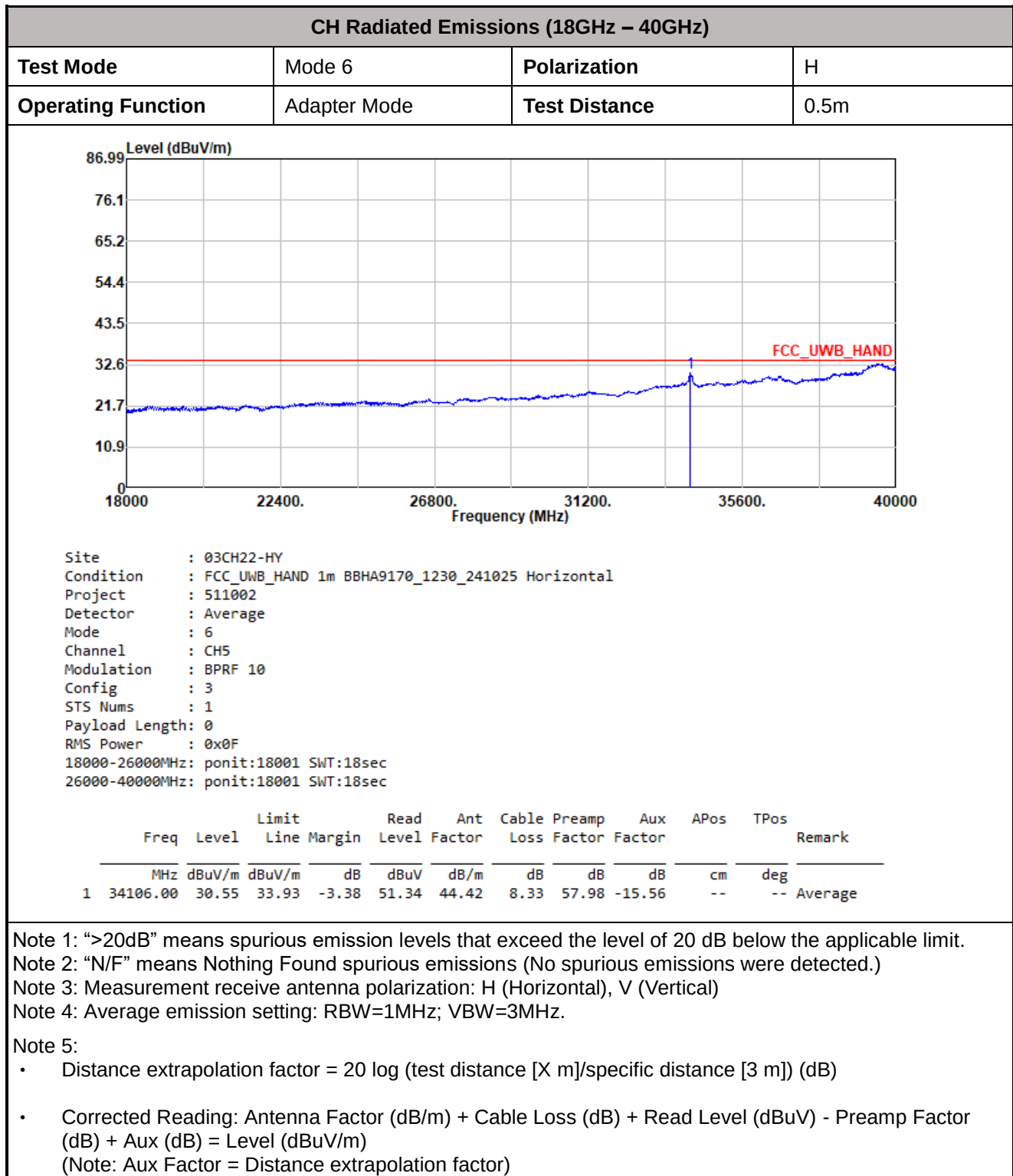
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: $E(\text{dBuV/m}) = \text{EIRP Limit}(\text{dBm}) + 95.23$. $E(\text{dBuV/m}) = -85.3 + 95.23 = 9.93\text{dBuV/m}$.



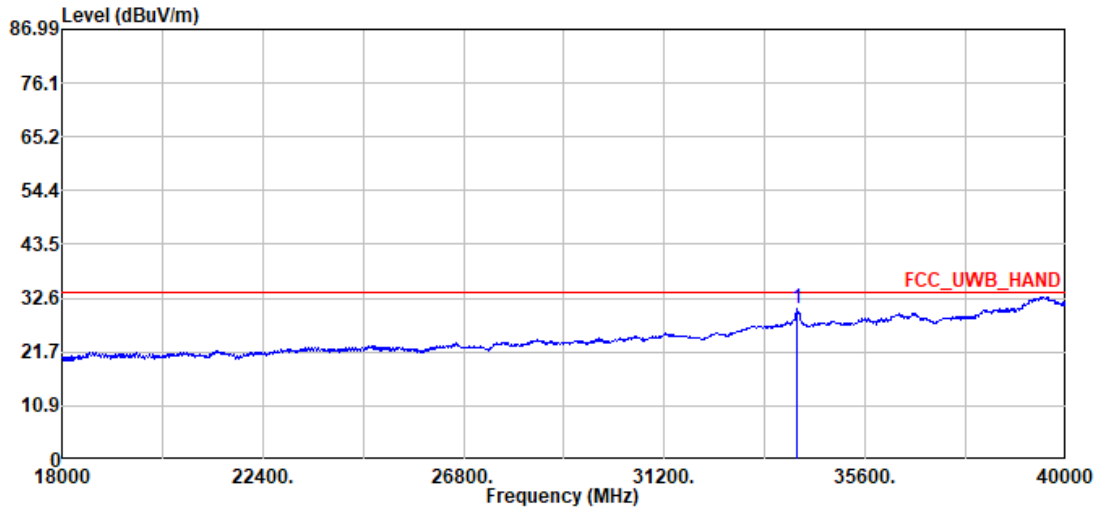
3.5.11 Radiated Emissions (18GHz – 40GHz)





CH Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	0.5m



Site : 03CH22-HY
Condition : FCC_UWB_HAND 1m BBHA9170_1230_241025 Vertical
Project : 511002
Detector : Average
Mode : 6
Channel : CH5
Modulation : BPRF 10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x0F
18000-26000MHz: ponit:18001 SWT:18sec
26000-40000MHz: ponit:18001 SWT:18sec

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	34106.00	30.61	33.93		-3.32	51.40	44.42	8.33	57.98	-15.56	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1MHz; VBW=3MHz.

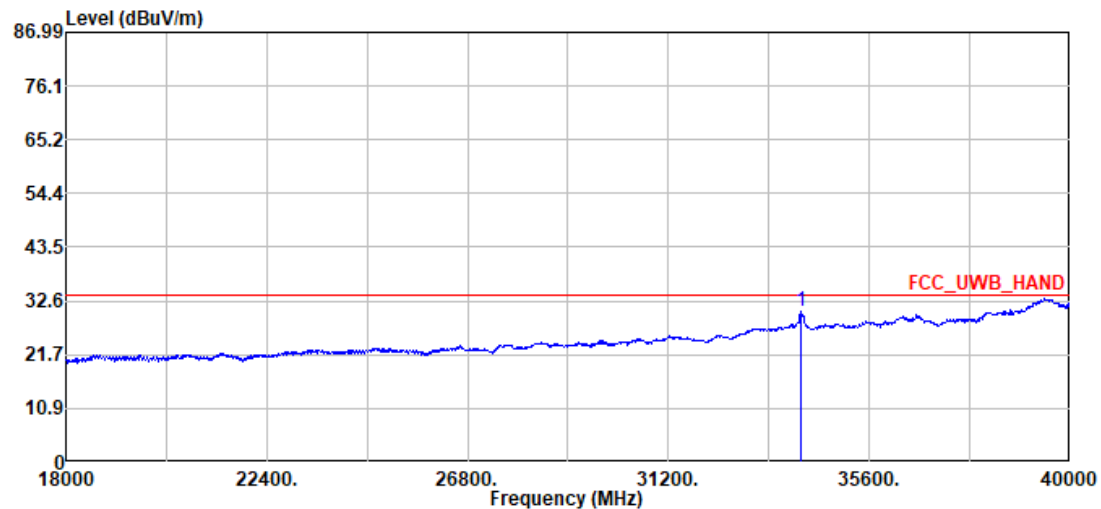
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux (dB) = Level (dBuV/m)
(Note: Aux Factor = Distance extrapolation factor)



CH Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	0.5m



Site : 03CH22-HY
Condition : FCC_UWB_HAND 1m BBHA9170_1230_241025 Horizontal
Project : 511002
Detector : Average
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x0C
18000-26000MHz: ponit:18001 SWT:18sec
26000-40000MHz: ponit:18001 SWT:18sec

Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 34106.00	30.59	33.93	-3.34	51.38	44.42	8.33	57.98	-15.56	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1MHz; VBW=3MHz.

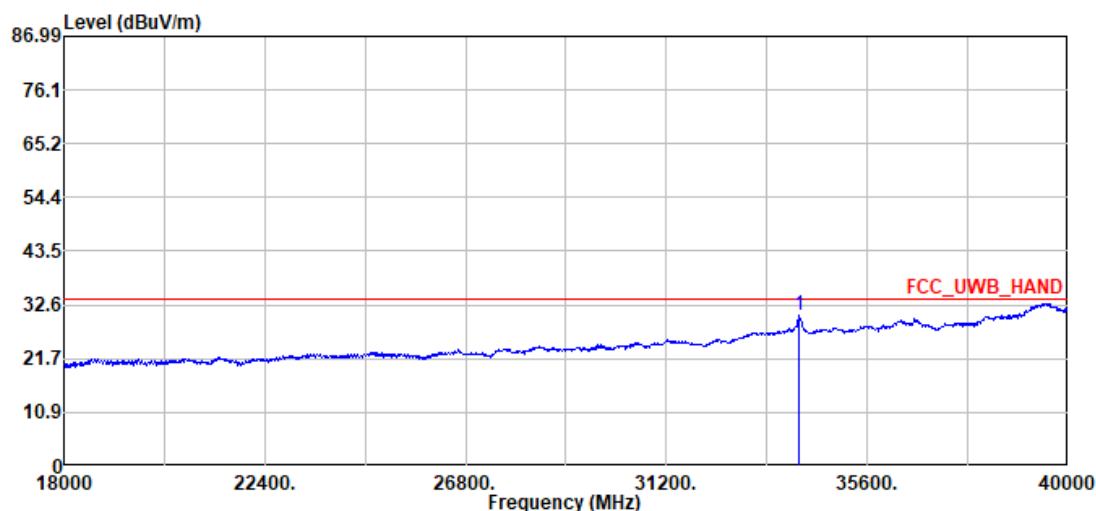
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux (dB) = Level (dBuV/m)
(Note: Aux Factor = Distance extrapolation factor)



CH Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	0.5m



Site : 03CH22-HY
Condition : FCC_UWB_HAND 1m BBHA9170_1230_241025 Vertical
Project : 511002
Detector : Average
Mode : 15
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x0C
18000-26000MHz: ponit:18001 SWT:18sec
26000-40000MHz: ponit:18001 SWT:18sec

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 34106.00	30.55	33.93		-3.38	51.34	44.42	8.33	57.98	-15.56	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1MHz; VBW=3MHz.

Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux (dB) = Level (dBuV/m)
(Note: Aux Factor = Distance extrapolation factor)



4 Test Equipment and Calibration Data

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	Mar. 22, 2025~ Mar. 28, 2025	Aug. 28, 2025	Radiation (03CH22-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Dec. 17, 2024	Mar. 22, 2025~ Mar. 28, 2025	Dec. 16, 2025	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 11, 2024	Mar. 22, 2025~ Mar. 28, 2025	Jul. 10, 2025	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Jul. 29, 2024	Mar. 22, 2025~ Mar. 28, 2025	Jul. 28, 2025	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1230	18GHz~40GHz	Oct. 25, 2024	Mar. 22, 2025~ Mar. 28, 2025	Oct. 24, 2025	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 27, 2024	Mar. 22, 2025~ Mar. 28, 2025	Sep. 26, 2025	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060871	18-40GHz	Aug. 23, 2024	Mar. 22, 2025~ Mar. 28, 2025	Aug. 22, 2025	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 24, 2024	Mar. 22, 2025~ Mar. 28, 2025	Sep. 23, 2025	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP201998	N/A	Oct. 24, 2024	Mar. 22, 2025~ Mar. 28, 2025	Oct. 23, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 22, 2025~ Mar. 28, 2025	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 22, 2025~ Mar. 28, 2025	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 22, 2025~ Mar. 28, 2025	N/A	Radiation (03CH22-HY)
Software	Audix	E3 6.09824_2019122	RK-002347	N/A	N/A	Mar. 22, 2025~ Mar. 28, 2025	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Mar. 22, 2025~ Mar. 28, 2025	Mar. 04, 2026	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,8046 11/2,804615/2	N/A	Oct. 23, 2024	Mar. 22, 2025~ Mar. 28, 2025	Oct. 22, 2025	Radiation (03CH22-HY)
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	RBW 50MHz	Feb. 20, 2025	Mar. 22, 2025~ Mar. 28, 2025	Feb. 19, 2026	Radiation (03CH22-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 29, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 29, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 23, 2024	Mar. 29, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Mar. 29, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Mar. 29, 2025	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 29, 2025	Sep. 22, 2025	Conduction (CO07-HY)

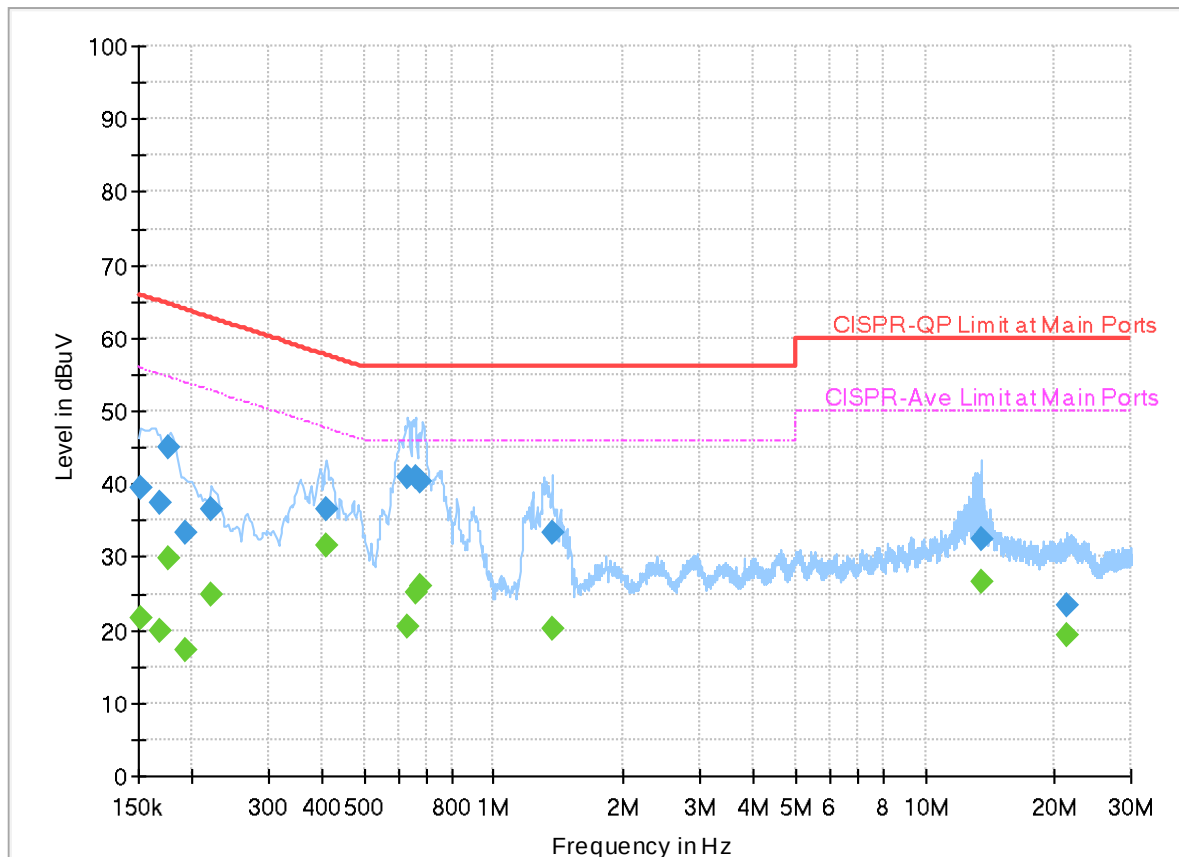


Appendix A. AC Conducted Emission Test Results

EUT Information

Report NO : 511002
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final Result

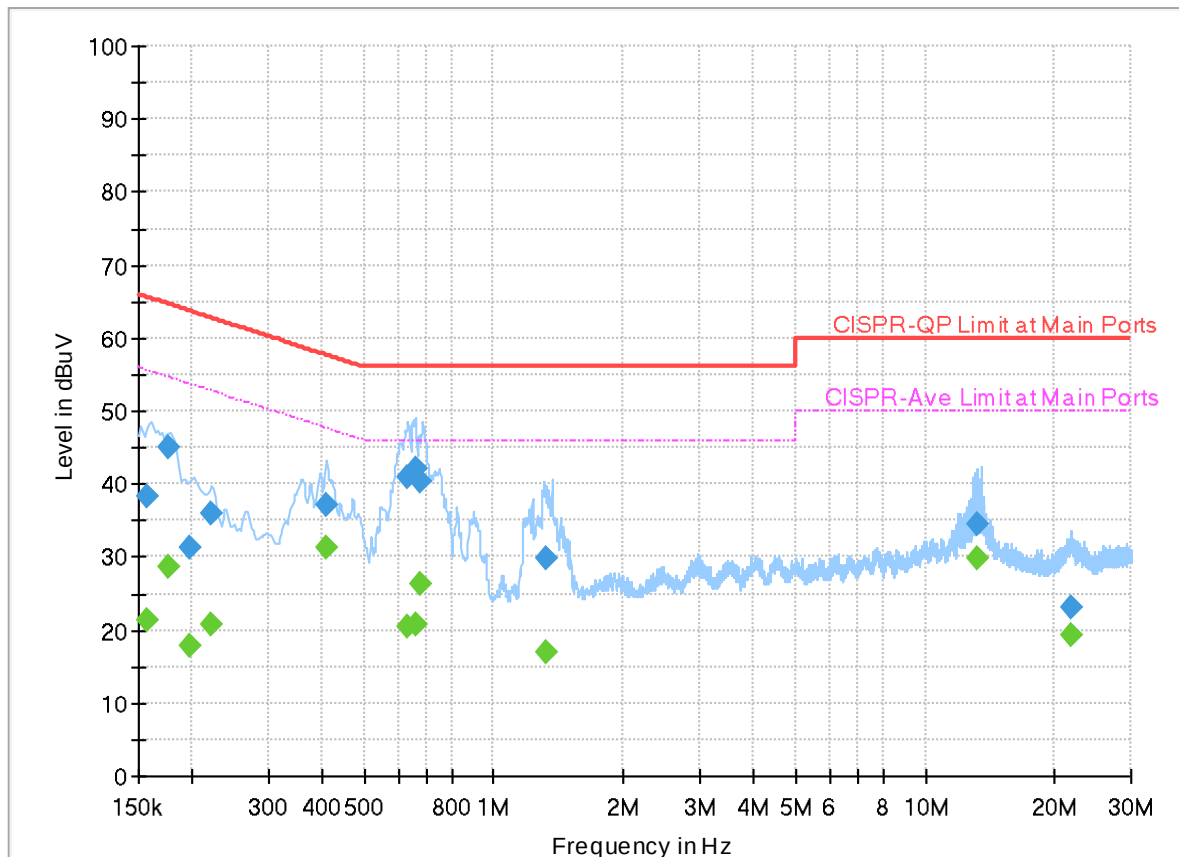
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.152160	---	21.77	55.88	34.11	L1	FLO	20.0
0.152160	39.33	---	65.88	26.55	L1	FLO	20.0
0.168000	---	19.98	55.06	35.08	L1	FLO	20.0
0.168000	37.52	---	65.06	27.54	L1	FLO	20.0
0.176910	---	29.91	54.63	24.72	L1	FLO	20.0
0.176910	45.01	---	64.63	19.62	L1	FLO	20.0
0.192750	---	17.35	53.92	36.57	L1	FLO	20.0
0.192750	33.29	---	63.92	30.63	L1	FLO	20.0
0.221730	---	24.98	52.75	27.77	L1	FLO	20.0
0.221730	36.58	---	62.75	26.17	L1	FLO	20.0
0.406860	---	31.63	47.71	16.08	L1	FLO	20.0
0.406860	36.62	---	57.71	21.09	L1	FLO	20.0
0.628440	---	20.40	46.00	25.60	L1	FLO	20.0
0.628440	41.04	---	56.00	14.96	L1	FLO	20.0
0.661650	---	25.26	46.00	20.74	L1	FLO	20.0
0.661650	40.99	---	56.00	15.01	L1	FLO	20.0
0.678750	---	26.10	46.00	19.90	L1	FLO	20.0
0.678750	40.43	---	56.00	15.57	L1	FLO	20.0
1.362750	---	20.21	46.00	25.79	L1	FLO	20.0

1.362750	33.46	---	56.00	22.54	L1	FLO	20.0
13.462890	---	26.64	50.00	23.36	L1	FLO	20.5
13.462890	32.60	---	60.00	27.40	L1	FLO	20.5
21.221700	---	19.43	50.00	30.57	L1	FLO	20.8
21.221700	23.26	---	60.00	36.74	L1	FLO	20.8

EUT Information

Report NO : 511002
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156750	---	21.24	55.63	34.39	N	FLO	20.0
0.156750	38.41	---	65.63	27.22	N	FLO	20.0
0.176370	---	28.62	54.66	26.04	N	FLO	20.0
0.176370	44.93	---	64.66	19.73	N	FLO	20.0
0.197250	---	17.85	53.73	35.88	N	FLO	20.0
0.197250	31.41	---	63.73	32.32	N	FLO	20.0
0.220560	---	20.78	52.80	32.02	N	FLO	20.0
0.220560	36.07	---	62.80	26.73	N	FLO	20.0
0.407310	---	31.31	47.70	16.39	N	FLO	20.0
0.407310	37.07	---	57.70	20.63	N	FLO	20.0
0.629250	---	20.35	46.00	25.65	N	FLO	20.0
0.629250	40.83	---	56.00	15.17	N	FLO	20.0
0.660750	---	20.75	46.00	25.25	N	FLO	20.0
0.660750	42.16	---	56.00	13.84	N	FLO	20.0
0.678750	---	26.27	46.00	19.73	N	FLO	20.0
0.678750	40.36	---	56.00	15.64	N	FLO	20.0
1.326750	---	16.86	46.00	29.14	N	FLO	20.0
1.326750	29.95	---	56.00	26.05	N	FLO	20.0
13.170840	---	29.89	50.00	20.11	N	FLO	20.5

13.170840	34.63	---	60.00	25.37	N	FLO	20.5
21.752250	---	19.39	50.00	30.61	N	FLO	20.9
21.752250	23.20	---	60.00	36.80	N	FLO	20.9

————THE END————