



FCC RADIO TEST REPORT

FCC ID : A4RGRY0E
Equipment : Wireless Device
Model Name : GRY0E
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : 47 CFR FCC Part 15.519

The product was received on Mar. 14, 2024, and testing was performed from Mar. 29, 2024 to Apr. 16, 2024. 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 of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

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.)



Table of Contents

History of this test report.....3

Summary of Test Result.....4

1 General Description5

1.1 Product Feature of Equipment Under Test5

1.2 Modification of EUT5

1.3 Type of EUT6

1.4 Testing Applied Standards6

1.5 Testing Location Information7

1.6 Measurement Uncertainty7

2 Test Configuration of EUT8

2.1 Test Mode.....8

2.2 The Worst Case Measurement Configuration9

2.3 Test Setup Diagram10

2.4 Support Unit used in test configuration and system11

3 Transmitter Test Result12

3.1 AC Power-line Conducted Emissions12

3.2 UWB bandwidth.....13

3.3 Technical requirements for hand held UWB systems20

3.4 Peak Power Measurement23

3.5 Radiated Emissions.....30

4 Test Equipment and Calibration Data61

Appendix A. Conducted Emissions Test Results

Appendix B. Setup Photographs



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/manufacturer 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: Michelle Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs WCDMA/LTE, Bluetooth, BLE, BLE (CH2-76), Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB and GPS.	
Antenna Type UWB: PIFA Antenna	

Antenna information		
6489.6 MHz	Peak Gain (dBi)	-1.0
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
41311JEAYL01N6	Equivalent Isotropic Radiated Power
	Radiated Spurious Emission
41291JEAYW00T1	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	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	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.: TW1190 and TW3786

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Conduction	CO07-HY	Louis Chung	23.1~25.7 °C 42.2~53.3 %	Apr. 15, 2024
Radiated	03CH22-HY	Bank Lin, Ken Kuo and Karl Hou	21.5~24.5 °C 63.7~66.3 %	Mar. 29, 2024~ Apr. 16, 2024

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)	3.44 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1000MHz)	6.50 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 6GHz)	4.50 dB	Confidence levels of 95%
Radiated Emission (6GHz ~ 18GHz)	4.50 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.40 dB	Confidence levels of 95%






2 Test Configuration of EUT

2.1 Test Mode

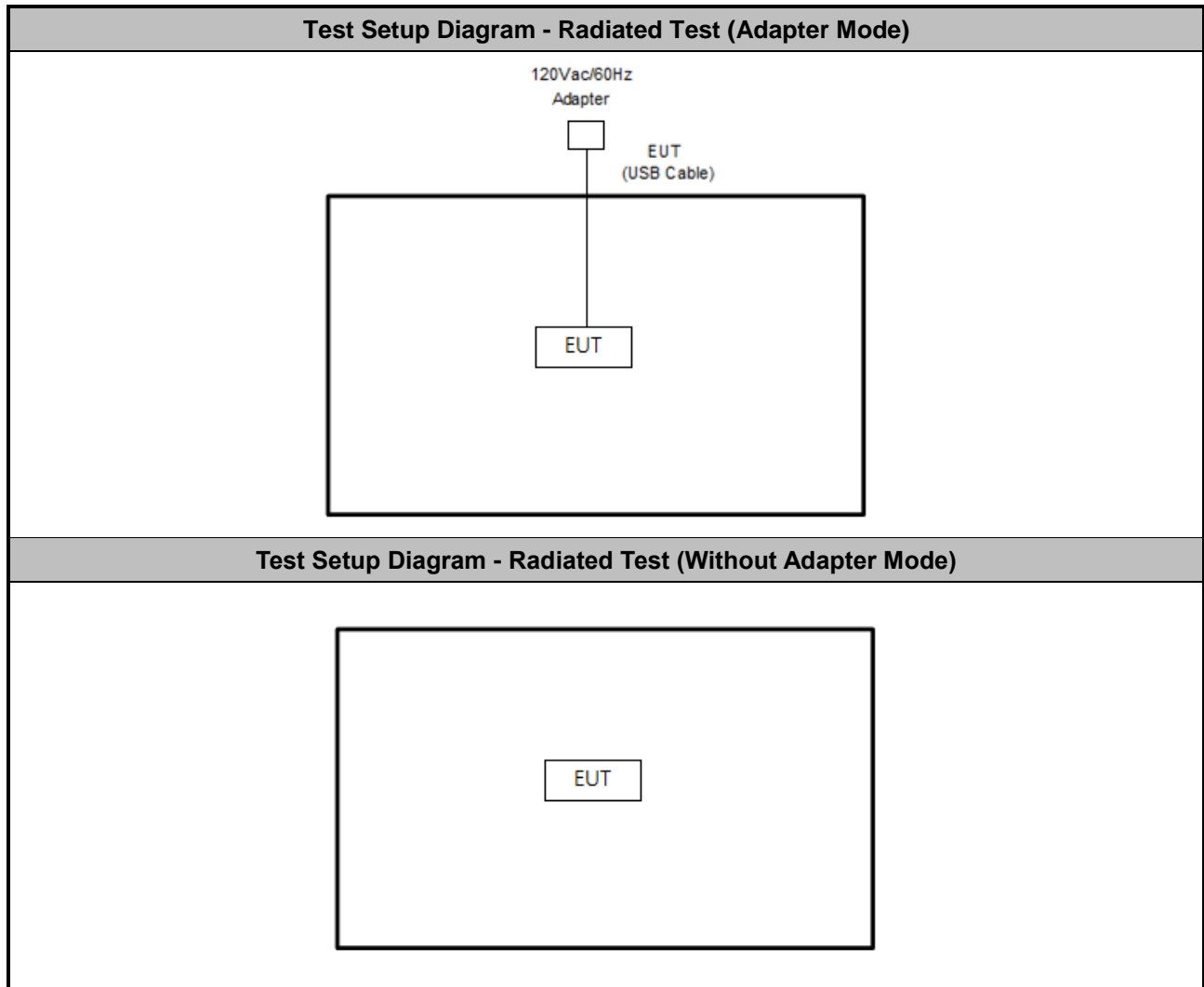
Test Configuration					
Config	Channel	Modulation	Config	STS Nums	Payload Length (bytes)
Mode 1	5	BPRF9	0	0	127
Mode 2	5	BPRF10	0	0	127
Mode 3	5	BPRF9	1	1	127
Mode 4	5	BPRF10	1	1	127
Mode 5	5	BPRF9	3	1	0
Mode 6	5	BPRF10	3	1	0
Mode 7	5	HPRF27	0	0	127
Mode 8	5	HPRF27	1	2	127
Mode 9	5	HPRF27	3	2	0
Mode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

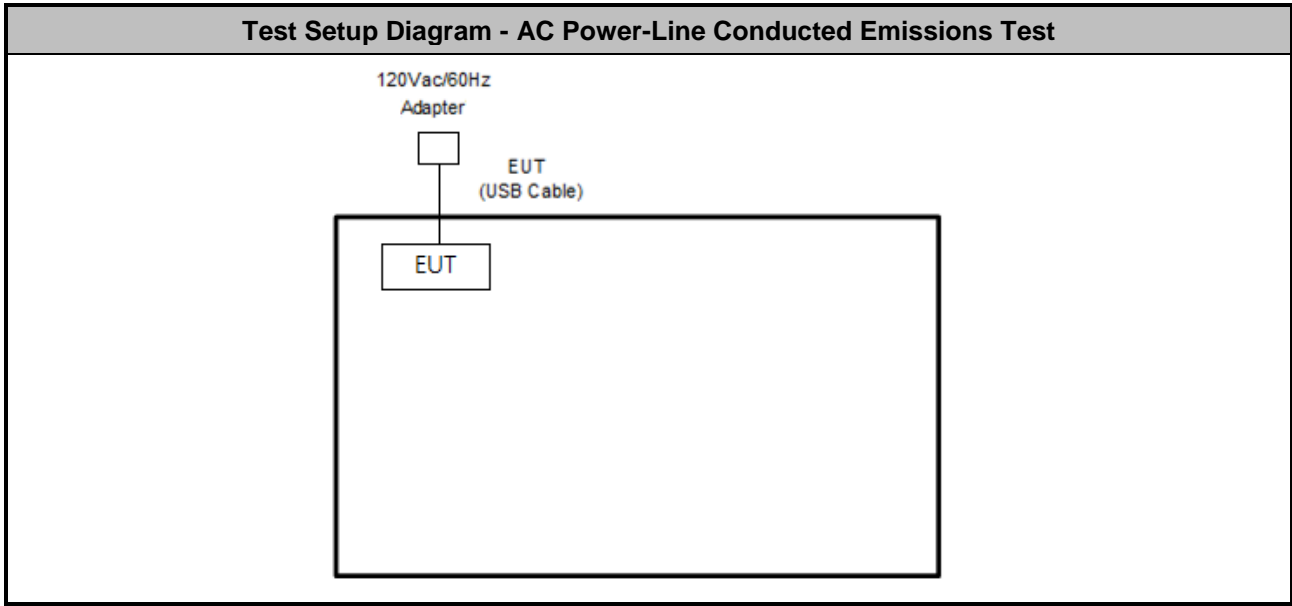
2.2 The Worst Case Measurement Configuration

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 for CH05; Without Adapter Mode for CH09		
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
			
CH05		V	
CH09	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	Chicony	G9BR1	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.

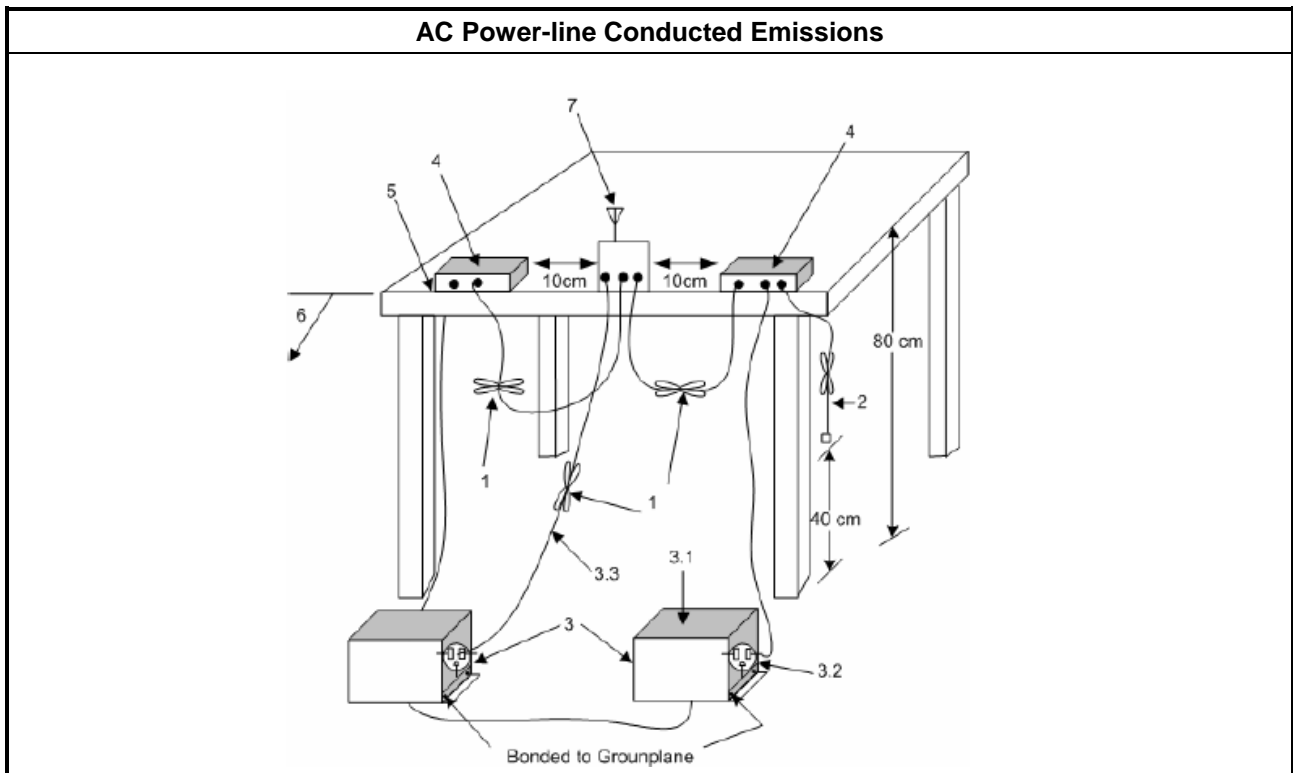
3.1.2 Measuring Instruments

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 \geq 500 MHz or Fractional bandwidth \geq 0.2; Fractional bandwidth = $2(f_H - f_L) / (f_H + f_L)$

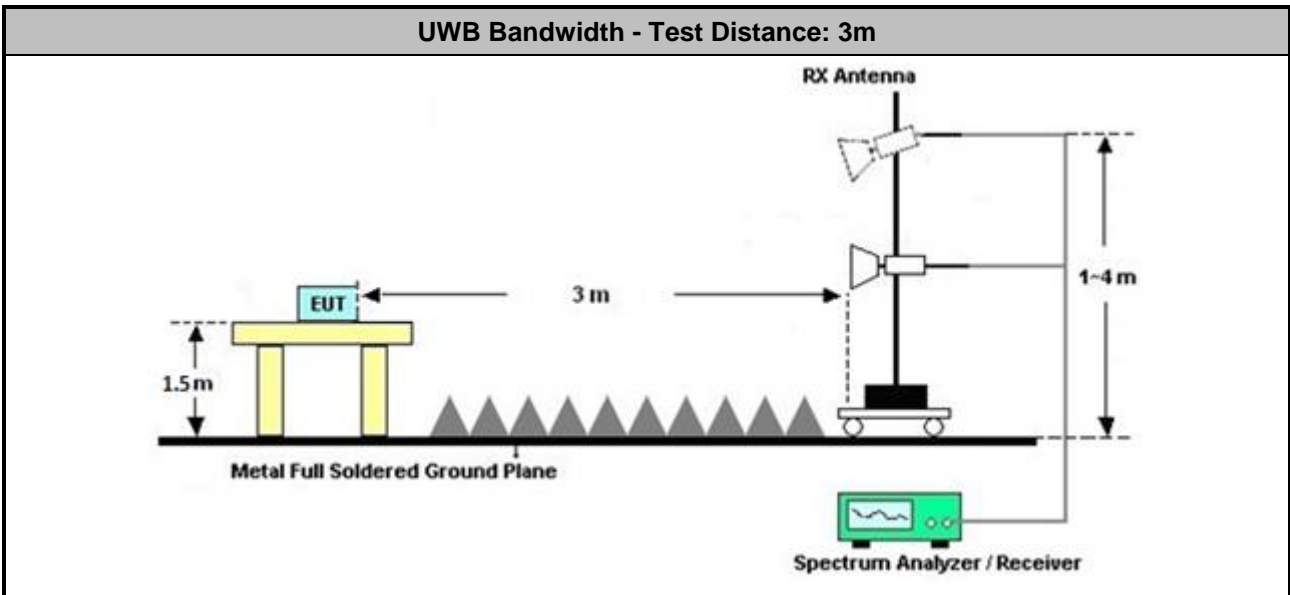
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ■ For the UWB bandwidth shall be measured using one of the options below:
<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 6.9.2 and clause 10.1 for UWB bandwidth testing.

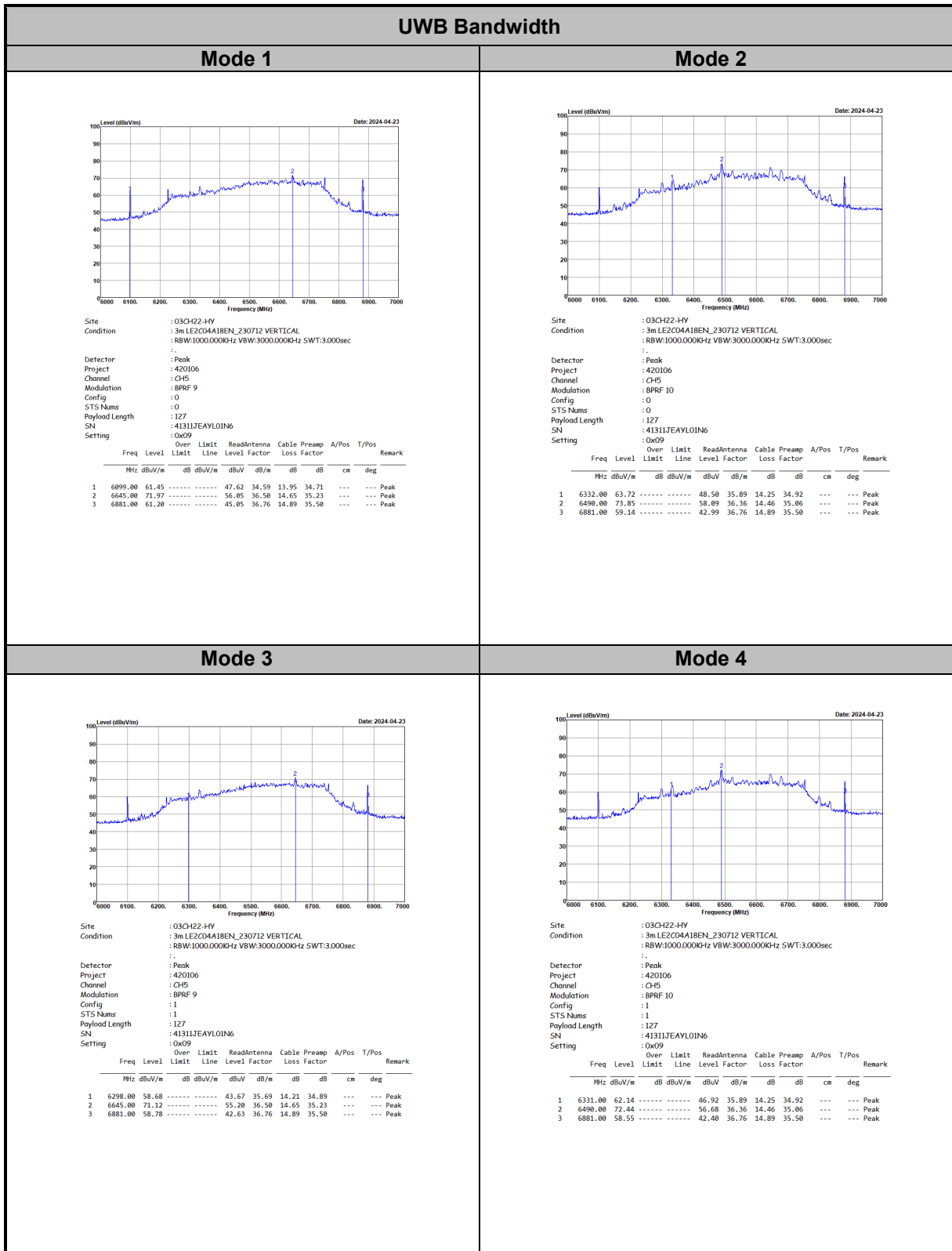
3.2.4 Test Setup





3.2.5 Test Result of UWB Bandwidth

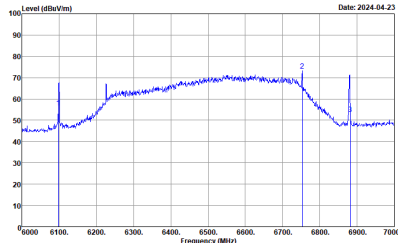
Test mode	F _L (MHz)	F _H (MHz)	UWB Bandwidth (MHz)	Bandwidth limit (MHz)	Result	PoI [H/V]
1	6099	6881	782	≥ 500	Pass	V
2	6332	6881	549	≥ 500	Pass	V
3	6298	6881	583	≥ 500	Pass	V
4	6331	6881	550	≥ 500	Pass	V
5	6098	6882	784	≥ 500	Pass	V
6	6098	6882	784	≥ 500	Pass	V
7	6315	6881	566	≥ 500	Pass	V
8	6098	6881	783	≥ 500	Pass	V
9	6098	6882	784	≥ 500	Pass	V
10	7595	8379	784	≥ 500	Pass	V
11	7723	8377	654	≥ 500	Pass	V
12	7596	8379	783	≥ 500	Pass	V
13	7723	8377	654	≥ 500	Pass	V
14	7596	8379	783	≥ 500	Pass	V
15	7596	8379	783	≥ 500	Pass	V
16	7723	8377	654	≥ 500	Pass	V
17	7597	8378	781	≥ 500	Pass	V
18	7595	8379	784	≥ 500	Pass	V





UWB Bandwidth

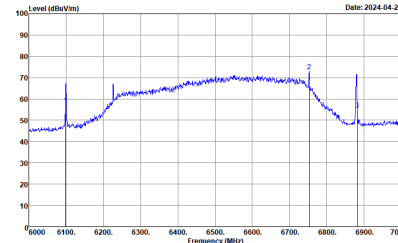
Mode 5



Site : 03CH22-HY
Condition : 3m LEZC04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : BPRF 9
Config : 3
STS Nums : 1
Payload Length : 0
SN : 41311JEAYLOIN6
Setting : 0x09

Table with 11 columns: Freq, Level, Over, Limit, ReadAntenna, Cable, Preamp, A/Pos, T/Pos, Remark. Row 1: 6098.00, 56.07, 42.25, 34.58, 13.95, 34.71, Peak.

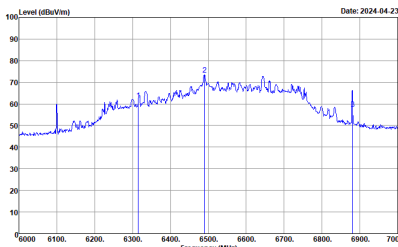
Mode 6



Site : 03CH22-HY
Condition : 3m LEZC04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length : 0
SN : 41311JEAYLOIN6
Setting : 0x09

Table with 11 columns: Freq, Level, Over, Limit, ReadAntenna, Cable, Preamp, A/Pos, T/Pos, Remark. Row 1: 6098.00, 56.97, 43.15, 34.58, 13.95, 34.71, Peak.

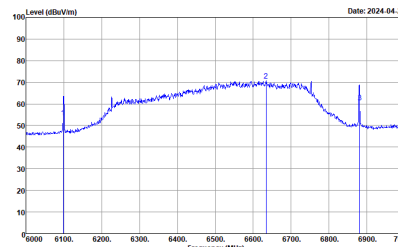
Mode 7



Site : 03CH22-HY
Condition : 3m LEZC04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : HPRF 27
Config : 0
STS Nums : 0
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x09

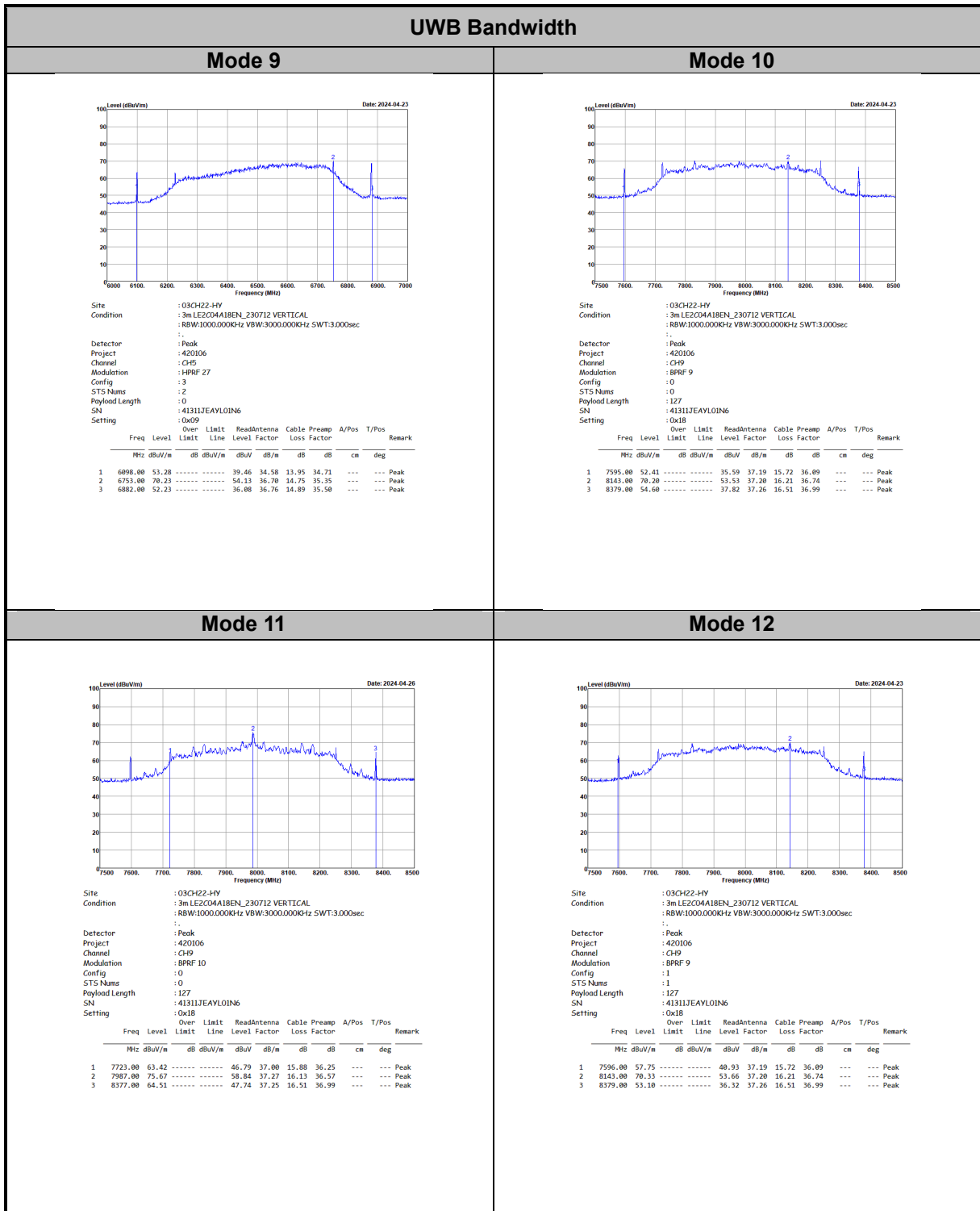
Table with 11 columns: Freq, Level, Over, Limit, ReadAntenna, Cable, Preamp, A/Pos, T/Pos, Remark. Row 1: 6315.00, 61.79, 46.67, 35.79, 14.23, 34.98, Peak.

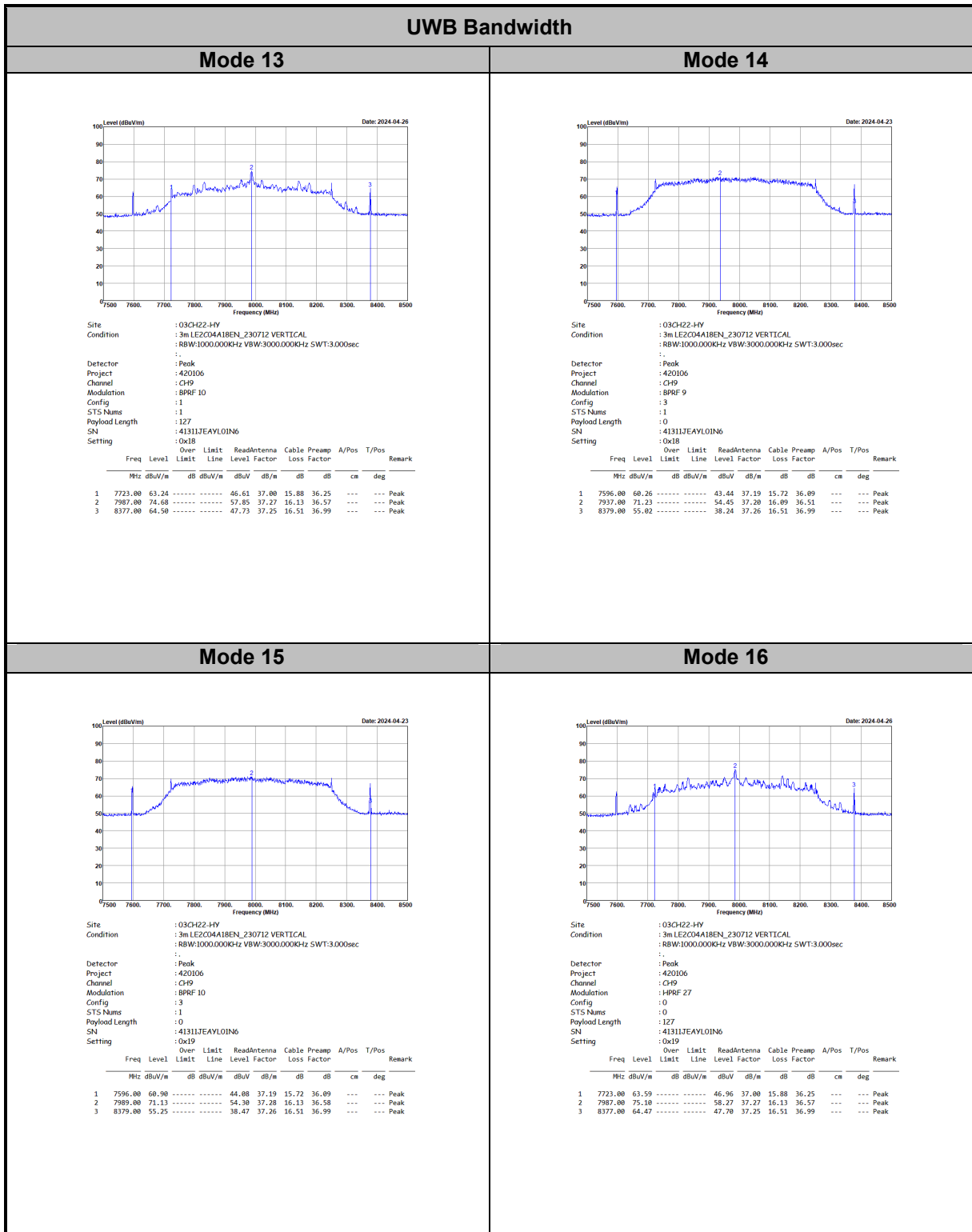
Mode 8

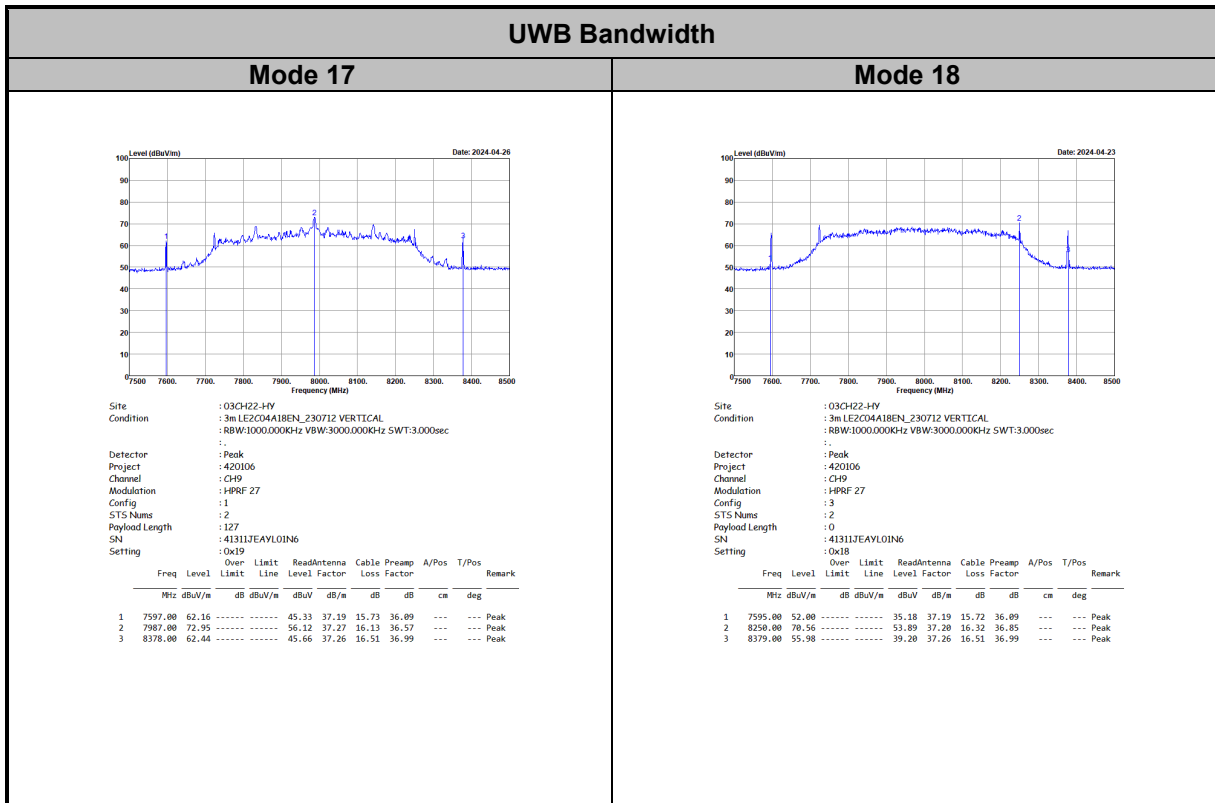


Site : 03CH22-HY
Condition : 3m LEZC04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : HPRF 27
Config : 1
STS Nums : 2
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x09

Table with 11 columns: Freq, Level, Over, Limit, ReadAntenna, Cable, Preamp, A/Pos, T/Pos, Remark. Row 1: 6098.00, 53.87, 48.05, 34.58, 13.95, 34.71, 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

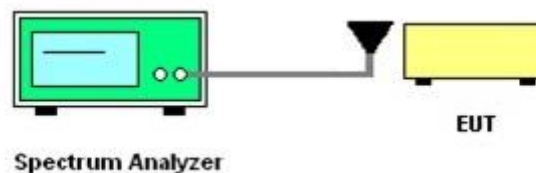
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedure

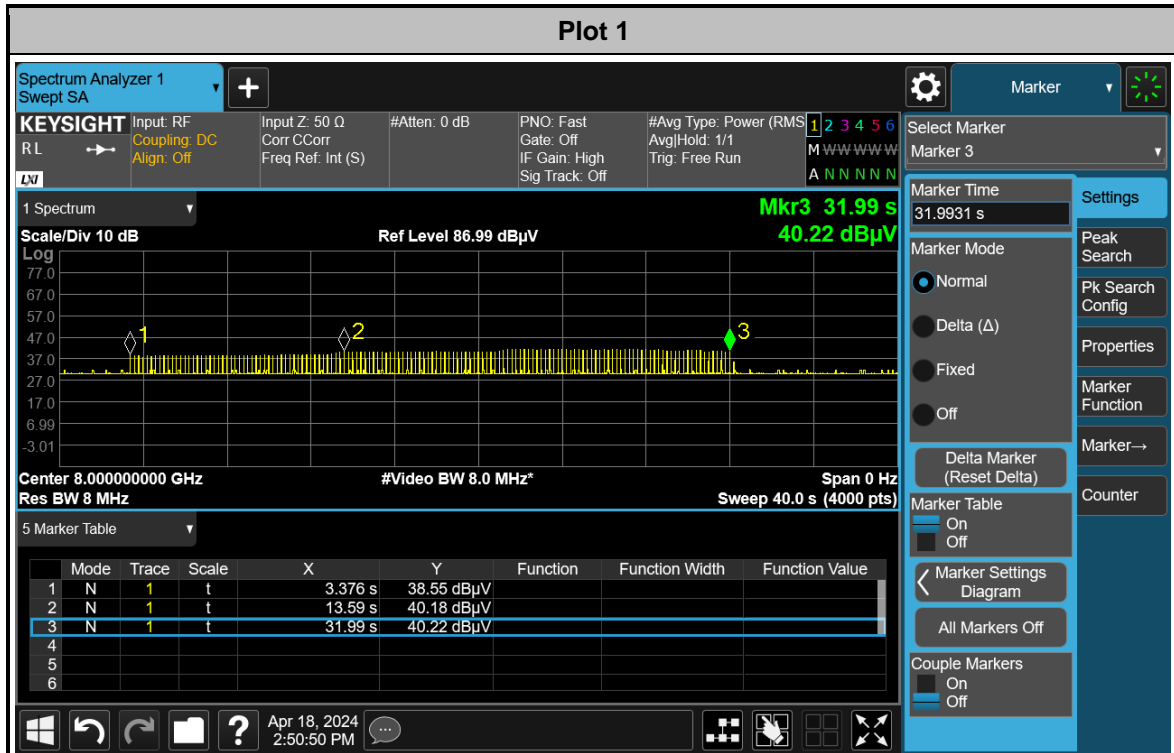
Follow the test step as below:

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.

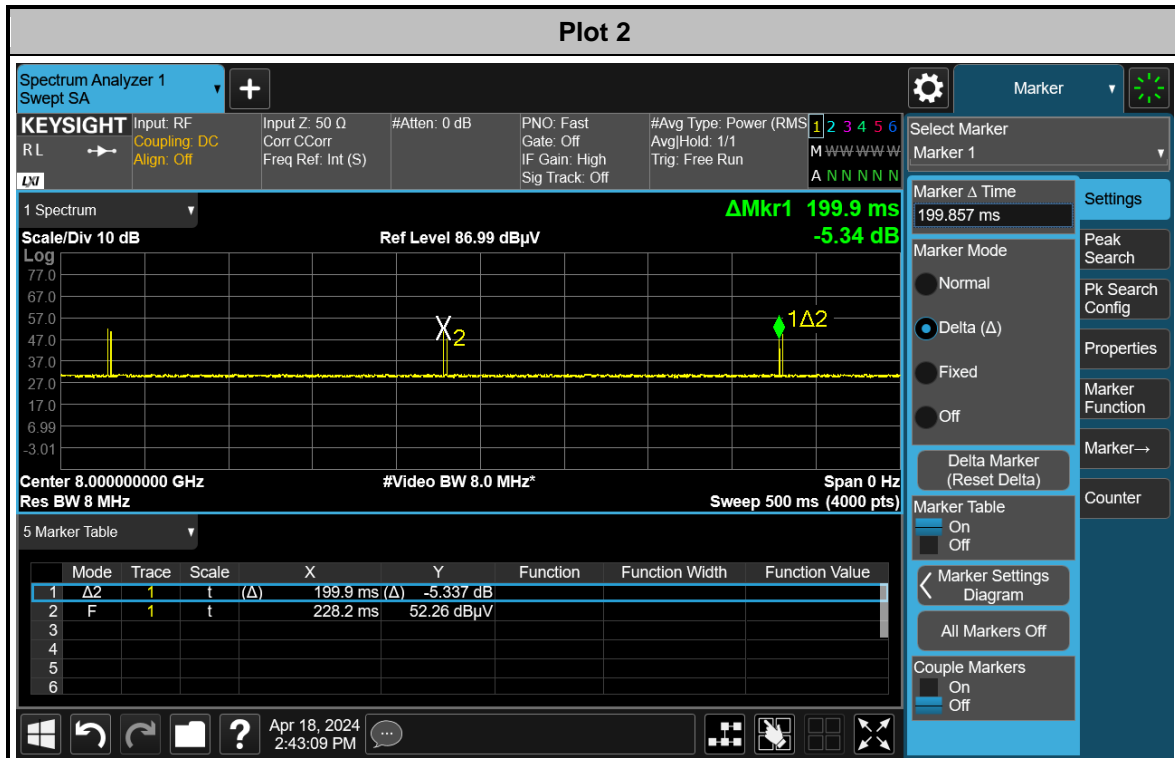
3.3.4 Test Setup



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
$P_{eirp} = 0 \text{ dBm}/50\text{MHz}$

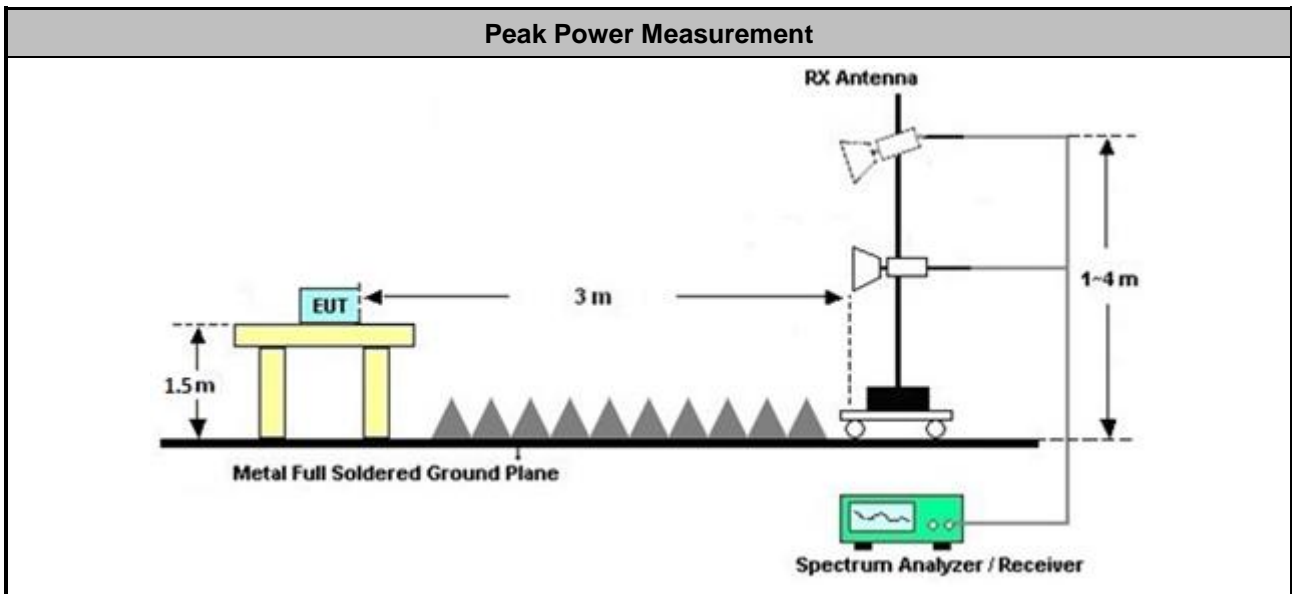
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ■ Peak Power Measurement
<ul style="list-style-type: none"> ■ 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.
<ul style="list-style-type: none"> ■ 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: <ul style="list-style-type: none"> • 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

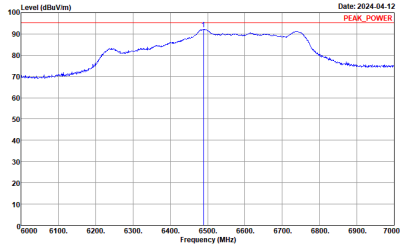
Peak Measurement Result							
Test Mode	Freq. (MHz)	E-Field (dBuV/m)	ERIP _{50MHz} (dBm)	ERIP _{50MHz} Limit (dBm)	Margin (dB)	Result	Pol [H/V]
1	6489	92.22	-3.01	0	-3.01	Pass	V
2	6490	92.41	-2.82	0	-2.82	Pass	V
3	6497	91.96	-3.27	0	-3.27	Pass	V
4	6492	90.94	-4.29	0	-4.29	Pass	V
5	6552	86.98	-8.25	0	-8.25	Pass	V
6	6615	87.04	-8.19	0	-8.19	Pass	V
7	6487	92.50	-2.73	0	-2.73	Pass	V
8	6485	90.18	-5.05	0	-5.05	Pass	V
9	6615	85.15	-10.08	0	-10.08	Pass	V
10	7983	93.42	-1.81	0	-1.81	Pass	V
11	7993	92.85	-2.38	0	-2.38	Pass	V
12	7982	92.71	-2.52	0	-2.52	Pass	V
13	7985	92.16	-3.07	0	-3.07	Pass	V
14	8050	87.22	-8.01	0	-8.01	Pass	V
15	8050	87.34	-7.89	0	-7.89	Pass	V
16	7984	93.54	-1.69	0	-1.69	Pass	V
17	7987	91.68	-3.55	0	-3.55	Pass	V
18	8048	85.00	-10.23	0	-10.23	Pass	V

Note 1: EIRP [dBm] = E-Field [dBuV/m] - 95.23;
Note 2: Measurement worst emissions of receive antenna polarization.



Pre-located worst frequency Plots

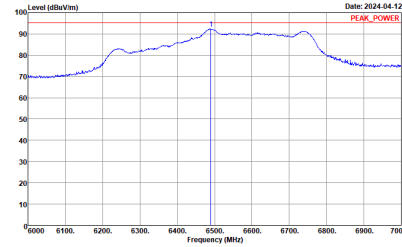
Mode 1



Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : 8PRF 9
Config : 0
ST5 Nums : 0
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x09

Table with 11 columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, A/Pos, T/Pos, Remark. Row 1: 6489.00, 92.22, -3.81, 95.23, 76.47, 36.36, 14.45, 35.86, ---, ---, Peak

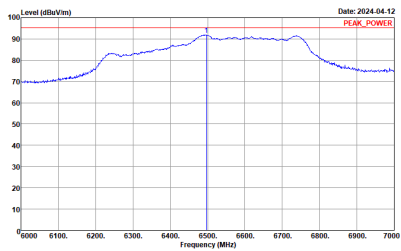
Mode 2



Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : 8PRF 10
Config : 0
ST5 Nums : 0
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x09

Table with 11 columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, A/Pos, T/Pos, Remark. Row 1: 6498.00, 92.41, -2.82, 95.23, 76.65, 36.36, 14.46, 35.86, ---, ---, Peak

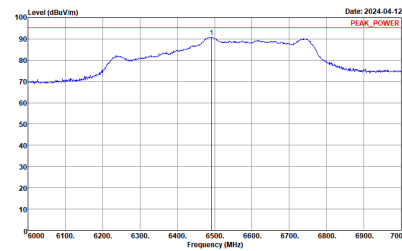
Mode 3



Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : 8PRF 9
Config : 1
ST5 Nums : 1
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x09

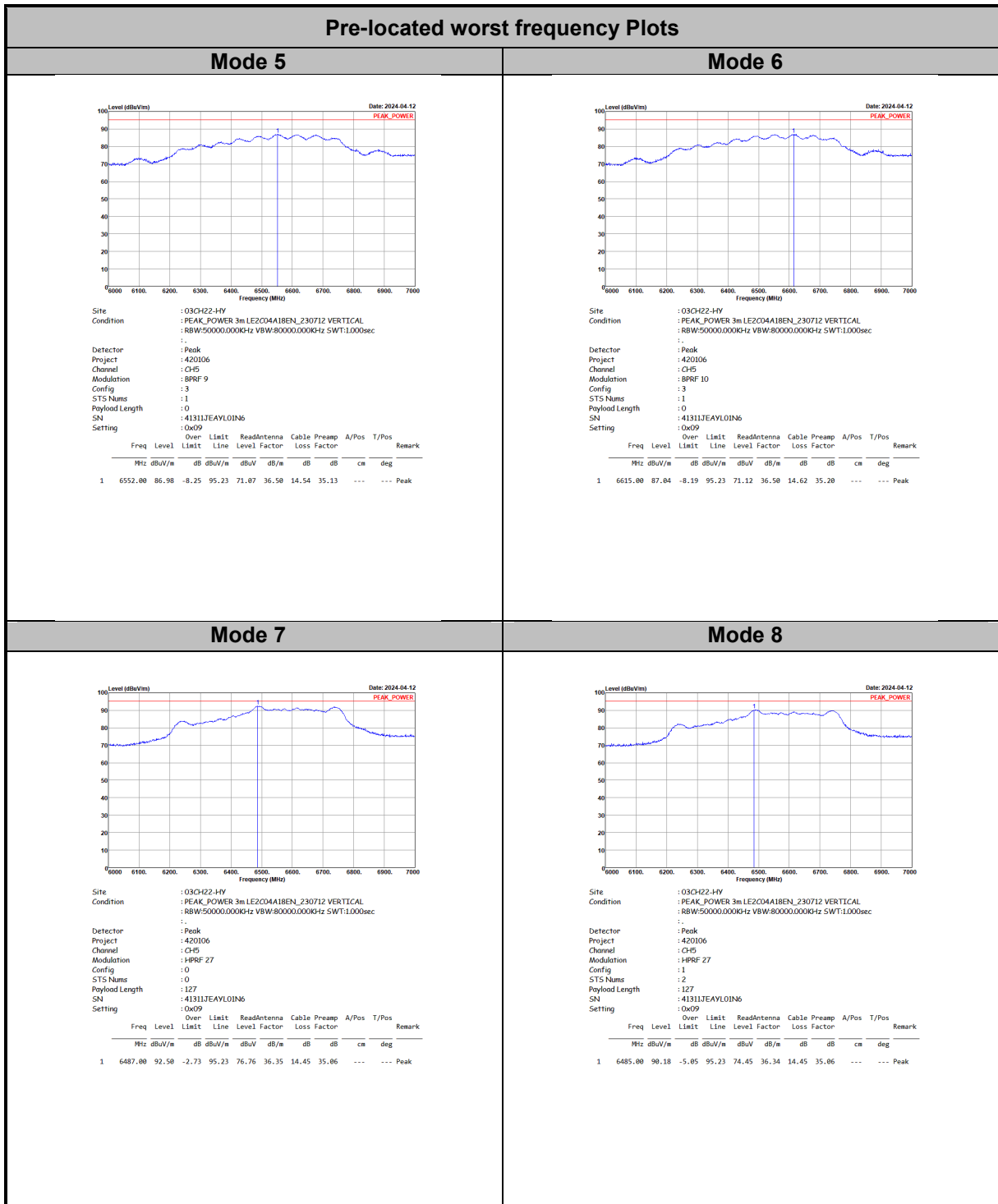
Table with 11 columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, A/Pos, T/Pos, Remark. Row 1: 6497.00, 91.96, -3.27, 95.23, 76.17, 36.39, 14.47, 35.87, ---, ---, Peak

Mode 4



Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH5
Modulation : 8PRF 10
Config : 1
ST5 Nums : 1
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x09

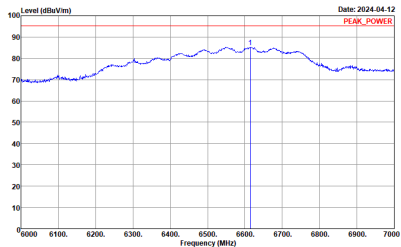
Table with 11 columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, A/Pos, T/Pos, Remark. Row 1: 6492.00, 90.94, -4.29, 95.23, 75.17, 36.37, 14.46, 35.86, ---, ---, Peak





Pre-located worst frequency Plots

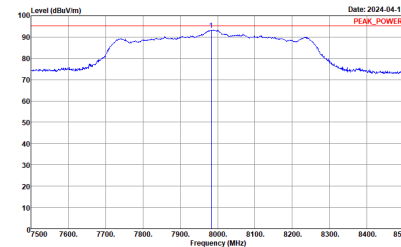
Mode 9



Date: 2024-04-12
 Site : 03CH22-HY
 Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
 : RBW50000.000KHz VBW80000.000KHz SWT1.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH5
 Modulation : HPRF 27
 Config : 3
 STS Nums : 2
 Payload Length : 0
 SN : 41311JEAYLOIN6
 Setting : 0x09

Setting	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark			
Level	Line	Level	Level	Loss	Loss	cm	deg				
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Loss			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	6615.00	85.15	-10.88	95.23	69.23	36.50	14.62	35.20	---	---	Peak

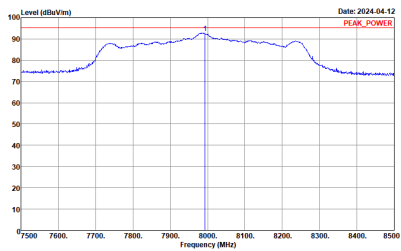
Mode 10



Date: 2024-04-12
 Site : 03CH22-HY
 Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
 : RBW50000.000KHz VBW80000.000KHz SWT1.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 9
 Config : 0
 STS Nums : 0
 Payload Length : 127
 SN : 41311JEAYLOIN6
 Setting : 0x18

Setting	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark			
Level	Line	Level	Level	Loss	Loss	cm	deg				
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Loss			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	7983.00	93.42	-1.81	95.23	76.59	37.27	16.13	36.57	---	---	Peak

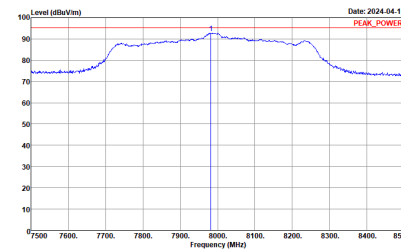
Mode 11



Date: 2024-04-12
 Site : 03CH22-HY
 Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
 : RBW50000.000KHz VBW80000.000KHz SWT1.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 0
 STS Nums : 0
 Payload Length : 127
 SN : 41311JEAYLOIN6
 Setting : 0x18

Setting	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark			
Level	Line	Level	Level	Loss	Loss	cm	deg				
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Loss			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	7993.00	92.85	-2.38	95.23	76.01	37.29	16.13	36.58	---	---	Peak

Mode 12



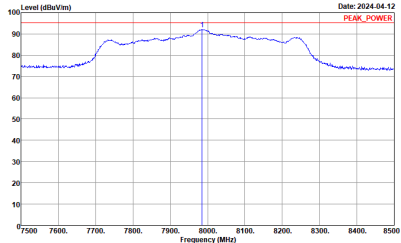
Date: 2024-04-12
 Site : 03CH22-HY
 Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
 : RBW50000.000KHz VBW80000.000KHz SWT1.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 9
 Config : 1
 STS Nums : 1
 Payload Length : 127
 SN : 41311JEAYLOIN6
 Setting : 0x18

Setting	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark			
Level	Line	Level	Level	Loss	Loss	cm	deg				
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Loss			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	7982.00	92.71	-2.52	95.23	75.89	37.26	16.13	36.57	---	---	Peak



Pre-located worst frequency Plots

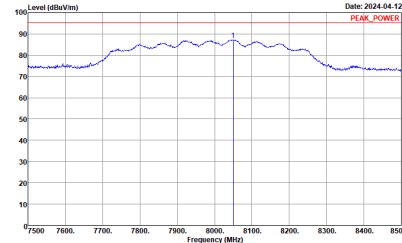
Mode 13



Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH9
Modulation : BPRF 10
Config : 1
STS Nums : 1
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x18

Table with 10 columns: Freq, Level, Over Limit, ReadAntenna, Cable Preamp, A/Pos, T/Pos, Remark. Row 1: 7985.00, 92.16, -3.07, 95.23, 75.33, 37.27, 16.13, 36.57, ---, ---, Peak

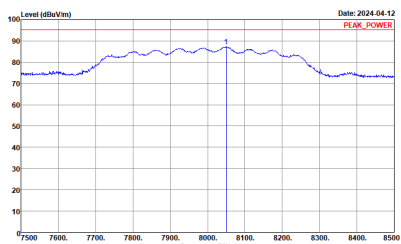
Mode 14



Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH9
Modulation : BPRF 9
Config : 3
STS Nums : 1
Payload Length : 0
SN : 41311JEAYLOIN6
Setting : 0x18

Table with 10 columns: Freq, Level, Over Limit, ReadAntenna, Cable Preamp, A/Pos, T/Pos, Remark. Row 1: 8850.00, 87.22, -8.01, 95.23, 70.50, 37.20, 16.16, 36.64, ---, ---, Peak

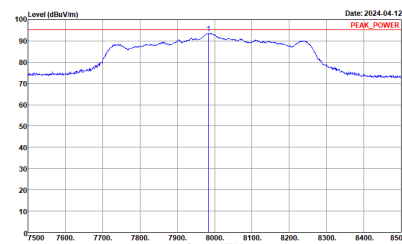
Mode 15



Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH9
Modulation : BPRF 10
Config : 3
STS Nums : 1
Payload Length : 0
SN : 41311JEAYLOIN6
Setting : 0x19

Table with 10 columns: Freq, Level, Over Limit, ReadAntenna, Cable Preamp, A/Pos, T/Pos, Remark. Row 1: 8850.00, 87.34, -7.89, 95.23, 70.62, 37.20, 16.16, 36.64, ---, ---, Peak

Mode 16



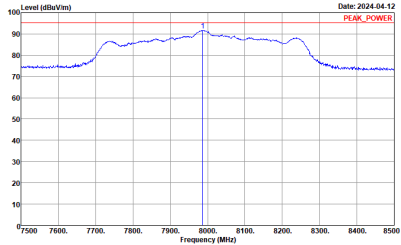
Site : 03CH22-HY
Condition : PEAK_POWER 3m LE2C04A18EN_230712 VERTICAL
Detector : Peak
Project : 420106
Channel : CH9
Modulation : BPRF 27
Config : 0
STS Nums : 0
Payload Length : 127
SN : 41311JEAYLOIN6
Setting : 0x18

Table with 10 columns: Freq, Level, Over Limit, ReadAntenna, Cable Preamp, A/Pos, T/Pos, Remark. Row 1: 7984.00, 93.54, -1.69, 95.23, 76.71, 37.27, 16.13, 36.57, ---, ---, Peak



Pre-located worst frequency Plots

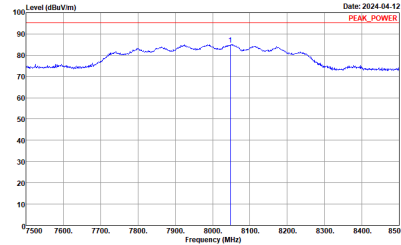
Mode 17



Site : 03CH22-HY
 Condition : PEAK_POWER 3m LE2C0418EN_230712 VERTICAL
 : RBW:50000.000KHz VBW:80000.000KHz SWT:1.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : HPRF 27
 Config : 1
 STS Num : 2
 Payload Length : 127
 SN : 41311JEAYLOIN6
 Setting : 0x18

Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 7987.00	91.68	-3.55	95.23	74.85	37.27	16.13	36.57	---	--- Peak

Mode 18



Site : 03CH22-HY
 Condition : PEAK_POWER 3m LE2C0418EN_230712 VERTICAL
 : RBW:50000.000KHz VBW:80000.000KHz SWT:1.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : HPRF 27
 Config : 1
 STS Num : 2
 Payload Length : 0
 SN : 41311JEAYLOIN6
 Setting : 0x18

Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 8048.00	85.00	-10.23	95.23	68.28	37.20	16.16	36.64	---	--- 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

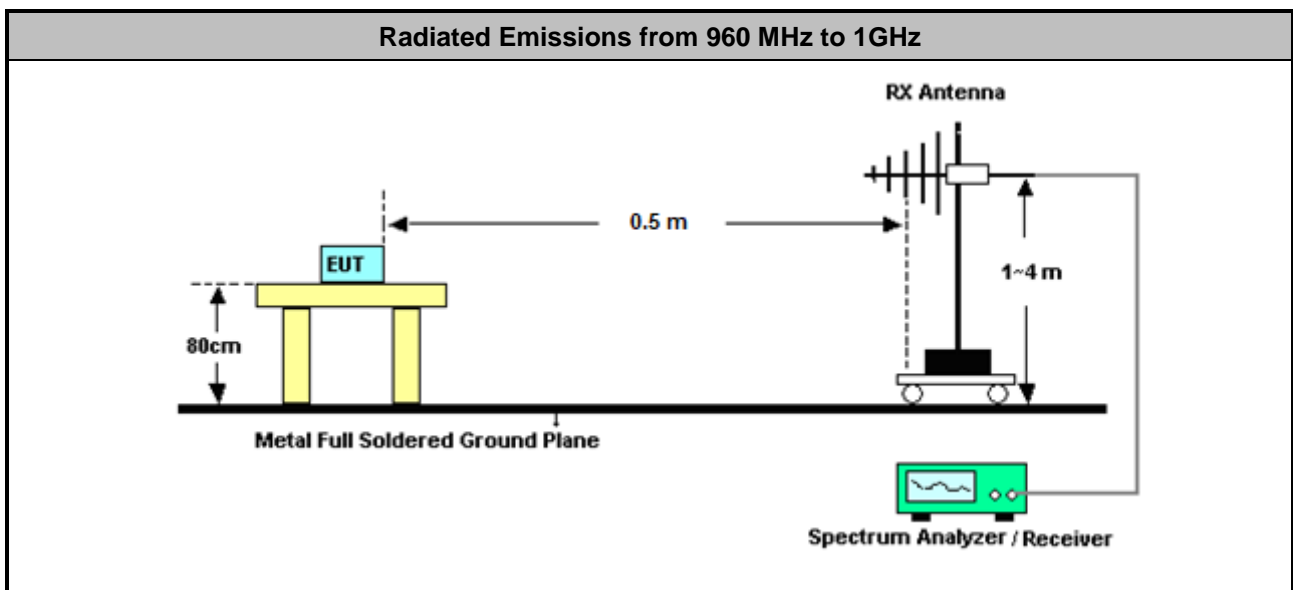
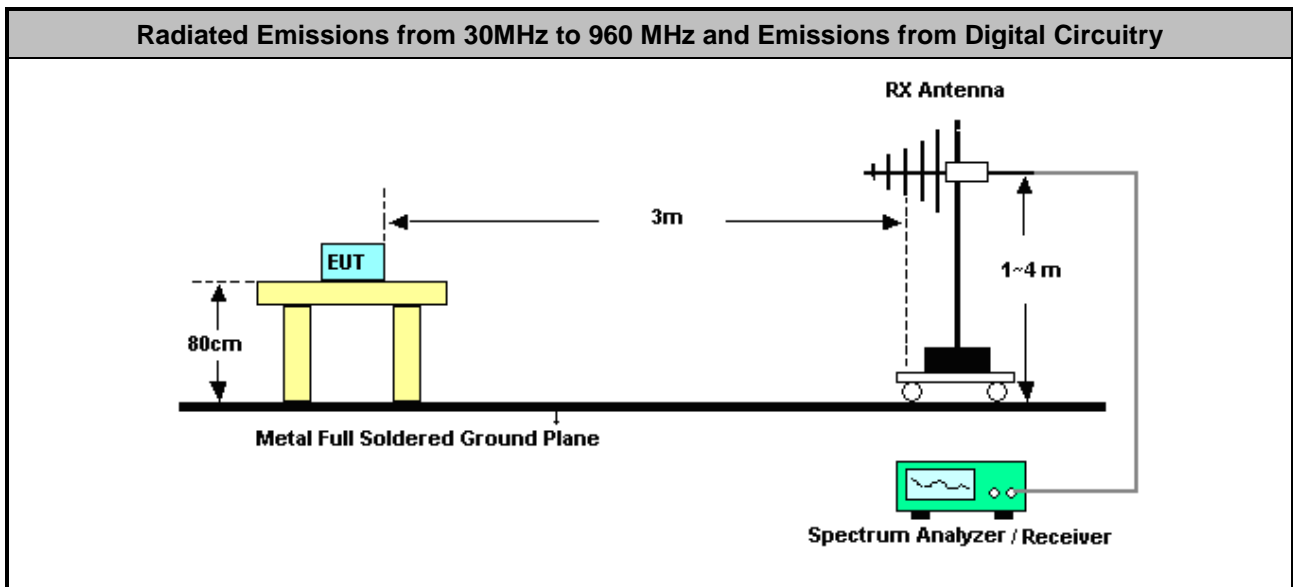
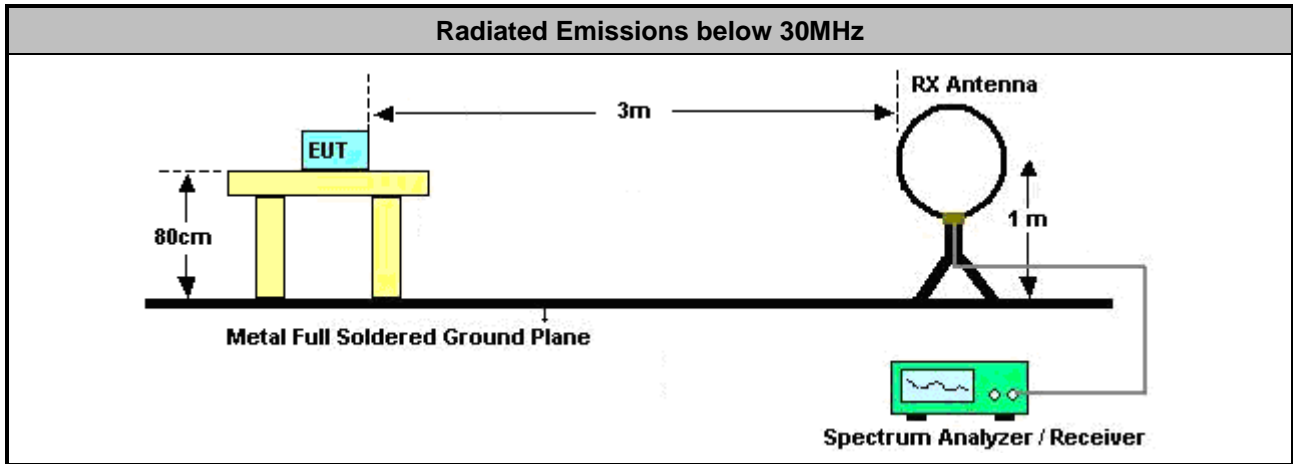
Refer a test equipment and calibration data table in this test report.

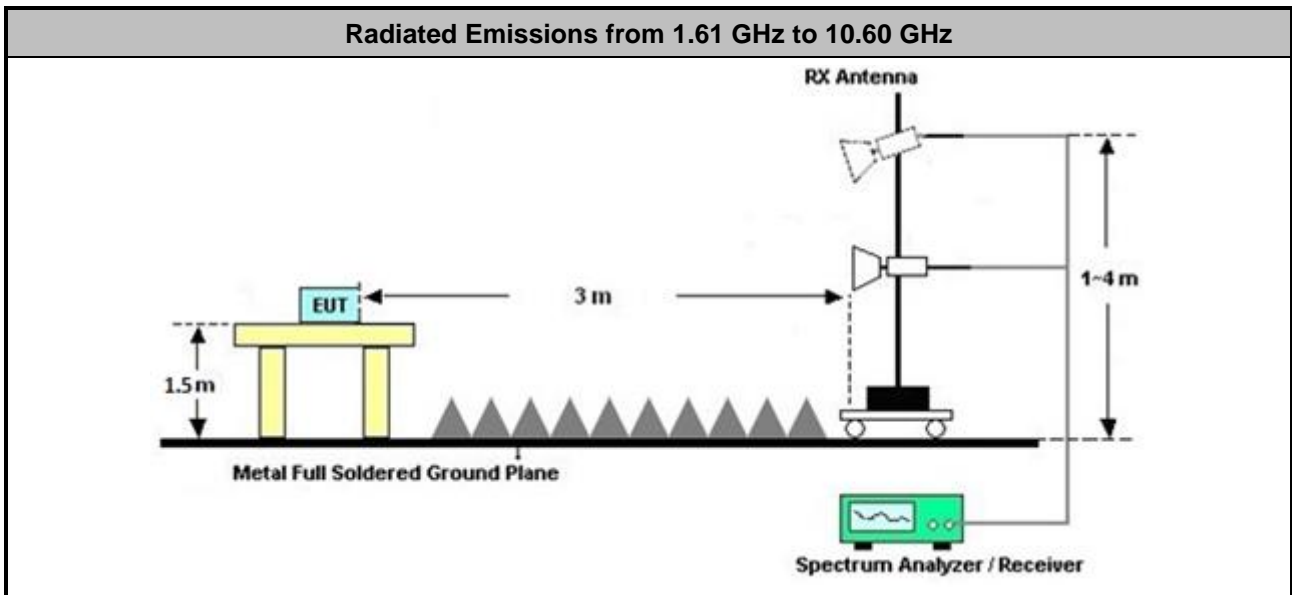
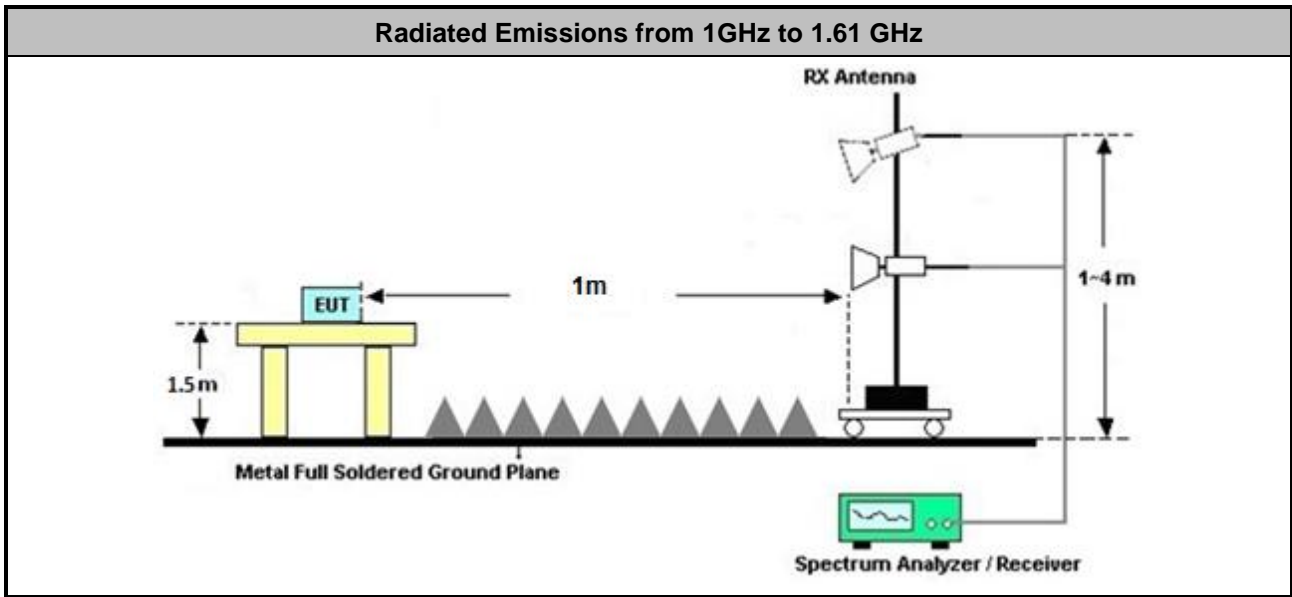
3.5.3 Test Procedures

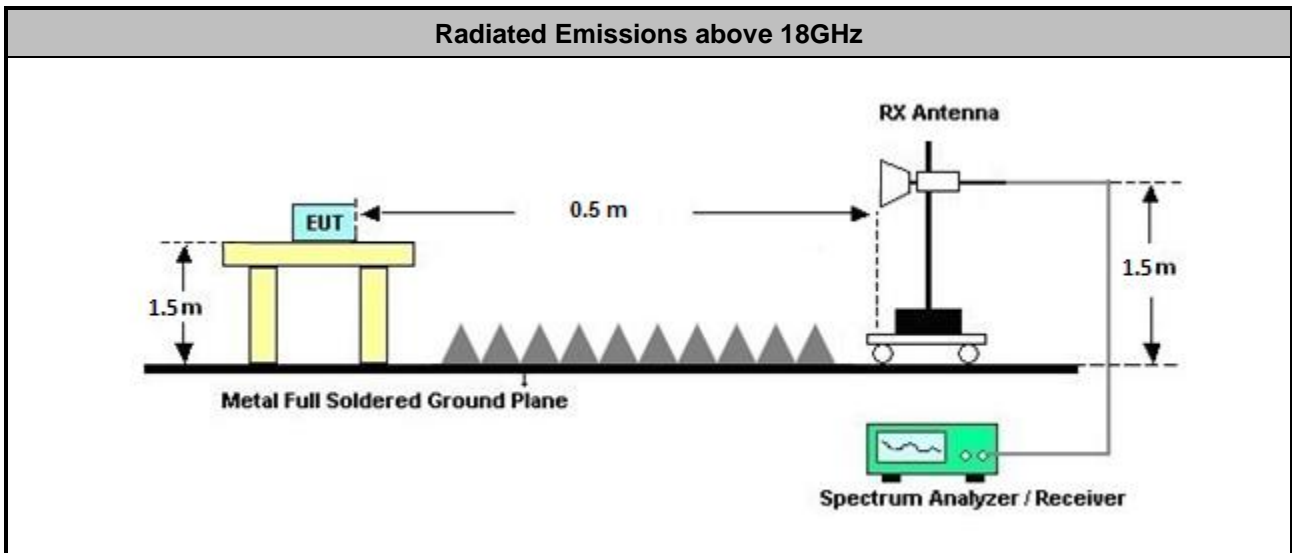
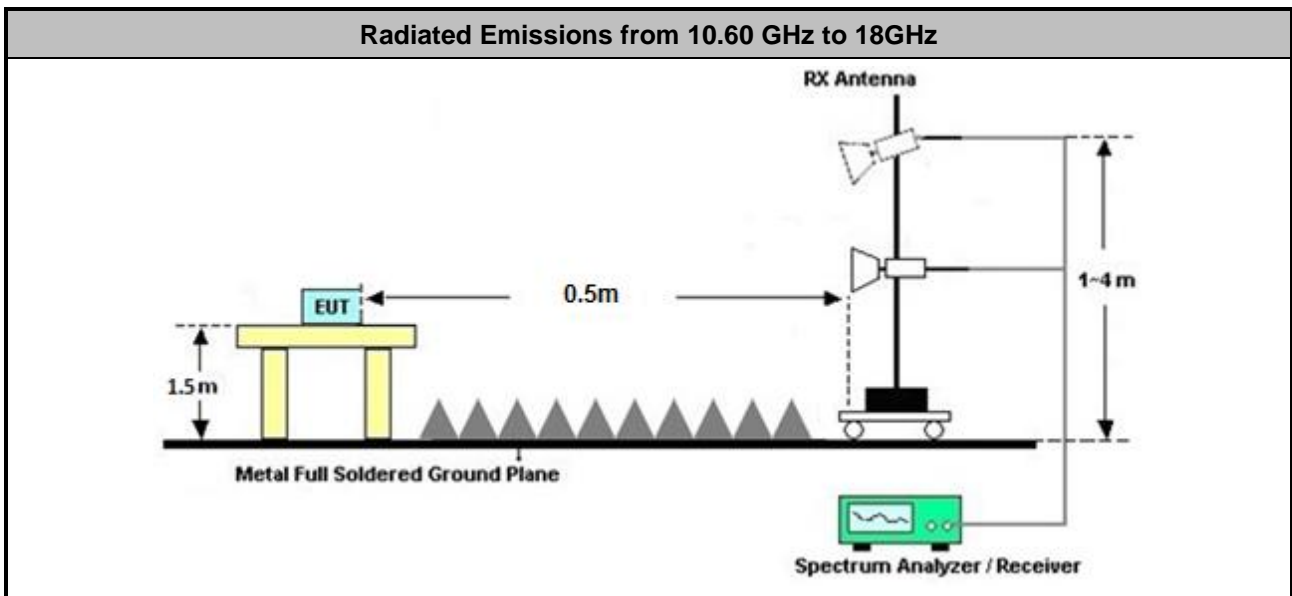
Test Method for Radiated Emissions above 960MHz	
<ul style="list-style-type: none"> ■ Radiated Emissions above 960MHz 	
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 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 (test distance [X m]/specific distance [3 m]) (dB)
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 10.3.4 for rms detector procedure testing.
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 10.3.7 for evaluating AVG-PSD (RBW=1MHz).
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 10.3.10 for evaluating AVG-PSD in GPS Band (RBW≥1kHz).
<ul style="list-style-type: none"> ■ For radiated measurement. 	
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 10.3.8 following eirp can be used radiated test configuration.
	<ul style="list-style-type: none"> ■ 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	
<ul style="list-style-type: none"> ■ 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. 	
<ul style="list-style-type: none"> ■ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 4.1.4 Detector functions and selection of bandwidth
	<ul style="list-style-type: none"> <input type="checkbox"/> 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 20log (dwell time/100 ms). Average emission = peak emission + 20 log (duty cycle).
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> ■ For radiated measurement. 	
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> ■ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> ■ If the noise floor can't meet the limit, the test distance will be shorten and described in the report.
<ul style="list-style-type: none"> ■ Any unwanted emissions level shall not exceed the fundamental emission level. 	

3.5.4 Test Setup







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	6619	53.17	-41.3	53.93	-0.76	Pass	V
2	6624	52.10	-41.3	53.93	-1.83	Pass	V
3	6628	53.46	-41.3	53.93	-0.47	Pass	V
4	6625	51.63	-41.3	53.93	-2.30	Pass	V
5	6565	53.62	-41.3	53.93	-0.31	Pass	V
6	6628	53.51	-41.3	53.93	-0.42	Pass	V
7	6628	53.13	-41.3	53.93	-0.80	Pass	V
8	6632	53.75	-41.3	53.93	-0.18	Pass	V
9	6628	53.51	-41.3	53.93	-0.42	Pass	V
10	7933	53.13	-41.3	53.93	-0.80	Pass	V
11	7987	52.77	-41.3	53.93	-1.16	Pass	V
12	7987	53.68	-41.3	53.93	-0.25	Pass	V
13	7987	52.69	-41.3	53.93	-1.24	Pass	V
14	7987	53.56	-41.3	53.93	-0.37	Pass	V
15	7987	53.75	-41.3	53.93	-0.18	Pass	V
16	7987	53.73	-41.3	53.93	-0.20	Pass	V
17	7987	53.01	-41.3	53.93	-0.92	Pass	V
18	7987	53.07	-41.3	53.93	-0.86	Pass	V



Radiated Emissions (Fundamental)																																																			
Operating Function	Adapter Mode for CH05; Without Adapter Mode for CH09	Polarization	V																																																
		Test Distance	3m																																																
Mode 1		Mode 2																																																	
<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LEZC0418EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec</p> <p>Detector : Average Project : 420106 Channel : CH5 Modulation : BPRF 9 Config : 0 STS Name : 0 Payload Length : 127 SN : 413117EAYL01N6 Setting : 0x09</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6619.00</td> <td>53.17</td> <td>-0.76</td> <td>53.93</td> <td>37.24</td> <td>36.50</td> <td>14.63 35.20 --- Average</td> </tr> </tbody> </table>		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg	1	6619.00	53.17	-0.76	53.93	37.24	36.50	14.63 35.20 --- Average	<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LEZC0418EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec</p> <p>Detector : Average Project : 420106 Channel : CH5 Modulation : BPRF 10 Config : 0 STS Name : 0 Payload Length : 127 SN : 413117EAYL01N6 Setting : 0x09</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6624.00</td> <td>52.10</td> <td>-1.83</td> <td>53.93</td> <td>36.18</td> <td>36.50</td> <td>14.63 35.21 --- Average</td> </tr> </tbody> </table>		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg	1	6624.00	52.10	-1.83	53.93	36.18	36.50	14.63 35.21 --- Average
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																												
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg																																												
1	6619.00	53.17	-0.76	53.93	37.24	36.50	14.63 35.20 --- Average																																												
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																												
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg																																												
1	6624.00	52.10	-1.83	53.93	36.18	36.50	14.63 35.21 --- Average																																												
Mode 3		Mode 4																																																	
<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LEZC0418EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec</p> <p>Detector : Average Project : 420106 Channel : CH5 Modulation : BPRF 9 Config : 1 STS Name : 1 Payload Length : 127 SN : 413117EAYL01N6 Setting : 0x09</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6626.00</td> <td>53.46</td> <td>-0.47</td> <td>53.93</td> <td>37.53</td> <td>36.50</td> <td>14.64 35.21 --- Average</td> </tr> </tbody> </table>		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg	1	6626.00	53.46	-0.47	53.93	37.53	36.50	14.64 35.21 --- Average	<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LEZC0418EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec</p> <p>Detector : Average Project : 420106 Channel : CH5 Modulation : BPRF 10 Config : 1 STS Name : 1 Payload Length : 127 SN : 413117EAYL01N6 Setting : 0x09</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6625.00</td> <td>51.63</td> <td>-2.30</td> <td>53.93</td> <td>35.71</td> <td>36.50</td> <td>14.63 35.21 --- Average</td> </tr> </tbody> </table>		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg	1	6625.00	51.63	-2.30	53.93	35.71	36.50	14.63 35.21 --- Average
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																												
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg																																												
1	6626.00	53.46	-0.47	53.93	37.53	36.50	14.64 35.21 --- Average																																												
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																												
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg																																												
1	6625.00	51.63	-2.30	53.93	35.71	36.50	14.63 35.21 --- Average																																												



Radiated Emissions (Fundamental)																																																																					
Operating Function	Adapter Mode for CH05; Without Adapter Mode for CH09	Polarization	V																																																																		
		Test Distance	3m																																																																		
Mode 5		Mode 6																																																																			
<p>Date: 2024-03-29</p> <p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2Z04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec : : Detector : Average Project : 420106 Channel : CH5 Modulation : BPRF 9 Config : 3 STS Name : 1 Payload Length : 0 SN : 413117EAYL01N6 Setting : :0x09</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6565.00</td> <td>53.62</td> <td>-0.31</td> <td>53.93</td> <td>37.70</td> <td>36.50</td> <td>14.56</td> <td>35.14</td> <td>---</td> <td>---</td> <td>Average</td> </tr> </tbody> </table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg	1	6565.00	53.62	-0.31	53.93	37.70	36.50	14.56	35.14	---	---	Average	<p>Date: 2024-03-30</p> <p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2Z04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec : : Detector : Average Project : 420106 Channel : CH5 Modulation : BPRF 10 Config : 3 STS Name : 1 Payload Length : 0 SN : 413117EAYL01N6 Setting : :0x09</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6628.00</td> <td>53.51</td> <td>-0.42</td> <td>53.93</td> <td>37.58</td> <td>36.50</td> <td>14.64</td> <td>35.21</td> <td>---</td> <td>---</td> <td>Average</td> </tr> </tbody> </table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg	1	6628.00	53.51	-0.42	53.93	37.58	36.50	14.64	35.21	---	---	Average
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																															
Freq	Level	Line	Level Factor	Loss Factor																																																																	
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg																																																															
1	6565.00	53.62	-0.31	53.93	37.70	36.50	14.56	35.14	---	---	Average																																																										
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																															
Freq	Level	Line	Level Factor	Loss Factor																																																																	
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg																																																															
1	6628.00	53.51	-0.42	53.93	37.58	36.50	14.64	35.21	---	---	Average																																																										
Mode 7		Mode 8																																																																			
<p>Date: 2024-03-30</p> <p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2Z04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec : : Detector : Average Project : 420106 Channel : CH5 Modulation : HPRF 27 Config : 0 STS Name : 0 Payload Length : 127 SN : 413117EAYL01N6 Setting : :0x09</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6628.00</td> <td>53.13</td> <td>-0.80</td> <td>53.93</td> <td>37.20</td> <td>36.50</td> <td>14.64</td> <td>35.21</td> <td>---</td> <td>---</td> <td>Average</td> </tr> </tbody> </table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg	1	6628.00	53.13	-0.80	53.93	37.20	36.50	14.64	35.21	---	---	Average	<p>Date: 2024-03-30</p> <p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2Z04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec : : Detector : Average Project : 420106 Channel : CH5 Modulation : HPRF 27 Config : 1 STS Name : 2 Payload Length : 127 SN : 413117EAYL01N6 Setting : :0x09</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>cm deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6632.00</td> <td>53.75</td> <td>-0.18</td> <td>53.93</td> <td>37.83</td> <td>36.50</td> <td>14.64</td> <td>35.22</td> <td>---</td> <td>---</td> <td>Average</td> </tr> </tbody> </table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg	1	6632.00	53.75	-0.18	53.93	37.83	36.50	14.64	35.22	---	---	Average
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																															
Freq	Level	Line	Level Factor	Loss Factor																																																																	
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg																																																															
1	6628.00	53.13	-0.80	53.93	37.20	36.50	14.64	35.21	---	---	Average																																																										
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																															
Freq	Level	Line	Level Factor	Loss Factor																																																																	
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm deg																																																															
1	6632.00	53.75	-0.18	53.93	37.83	36.50	14.64	35.22	---	---	Average																																																										



Radiated Emissions (Fundamental)																																																															
Operating Function	Adapter Mode for CH05; Without Adapter Mode for CH09	Polarization	V																																																												
		Test Distance	3m																																																												
Mode 9		Mode 10																																																													
<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2C04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:3000.000KHz SWT:1.000sec : : Detector : Average Project : 420106 Channel : CH9 Modulation : HPRF Z7 Config : 3 STS Name : 2 Payload Length : 0 SN : 413117EAYL01N6 Setting : 0x09</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 6628.00</td> <td>53.51</td> <td>-0.42</td> <td>53.93</td> <td>37.58</td> <td>36.50</td> <td>14.64</td> <td>35.21</td> <td>---</td> <td>--- Average</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 6628.00	53.51	-0.42	53.93	37.58	36.50	14.64	35.21	---	--- Average	<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2C04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:10.000KHz SWT:Auto : : Detector : Average Project : 420106 Channel : CH9 Modulation : BPRF 9 Config : 0 STS Name : 0 Payload Length : 127 SN : 413117EAYL01N6 Setting : 0x08</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7933.00</td> <td>53.13</td> <td>-0.80</td> <td>53.93</td> <td>36.35</td> <td>37.20</td> <td>16.09</td> <td>36.51</td> <td>---</td> <td>--- Peak</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 7933.00	53.13	-0.80	53.93	36.35	37.20	16.09	36.51	---	--- Peak
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 6628.00	53.51	-0.42	53.93	37.58	36.50	14.64	35.21	---	--- Average																																																						
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 7933.00	53.13	-0.80	53.93	36.35	37.20	16.09	36.51	---	--- Peak																																																						
Mode 11		Mode 12																																																													
<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2C04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:10.000KHz SWT:Auto : : Detector : Average Project : 420106 Channel : CH9 Modulation : BPRF 10 Config : 0 STS Name : 0 Payload Length : 127 SN : 413117EAYL01N6 Setting : 0x08</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7987.00</td> <td>52.77</td> <td>-1.16</td> <td>53.93</td> <td>35.94</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>---</td> <td>--- Peak</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 7987.00	52.77	-1.16	53.93	35.94	37.27	16.13	36.57	---	--- Peak	<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2C04A18EN_230712 VERTICAL :RBW:1000.000KHz VBW:10.000KHz SWT:Auto : : Detector : Average Project : 420106 Channel : CH9 Modulation : BPRF 9 Config : 1 STS Name : 1 Payload Length : 127 SN : 413117EAYL01N6 Setting : 0x08</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7987.00</td> <td>53.68</td> <td>-0.25</td> <td>53.93</td> <td>36.85</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>---</td> <td>--- Peak</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 7987.00	53.68	-0.25	53.93	36.85	37.27	16.13	36.57	---	--- Peak
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 7987.00	52.77	-1.16	53.93	35.94	37.27	16.13	36.57	---	--- Peak																																																						
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 7987.00	53.68	-0.25	53.93	36.85	37.27	16.13	36.57	---	--- Peak																																																						



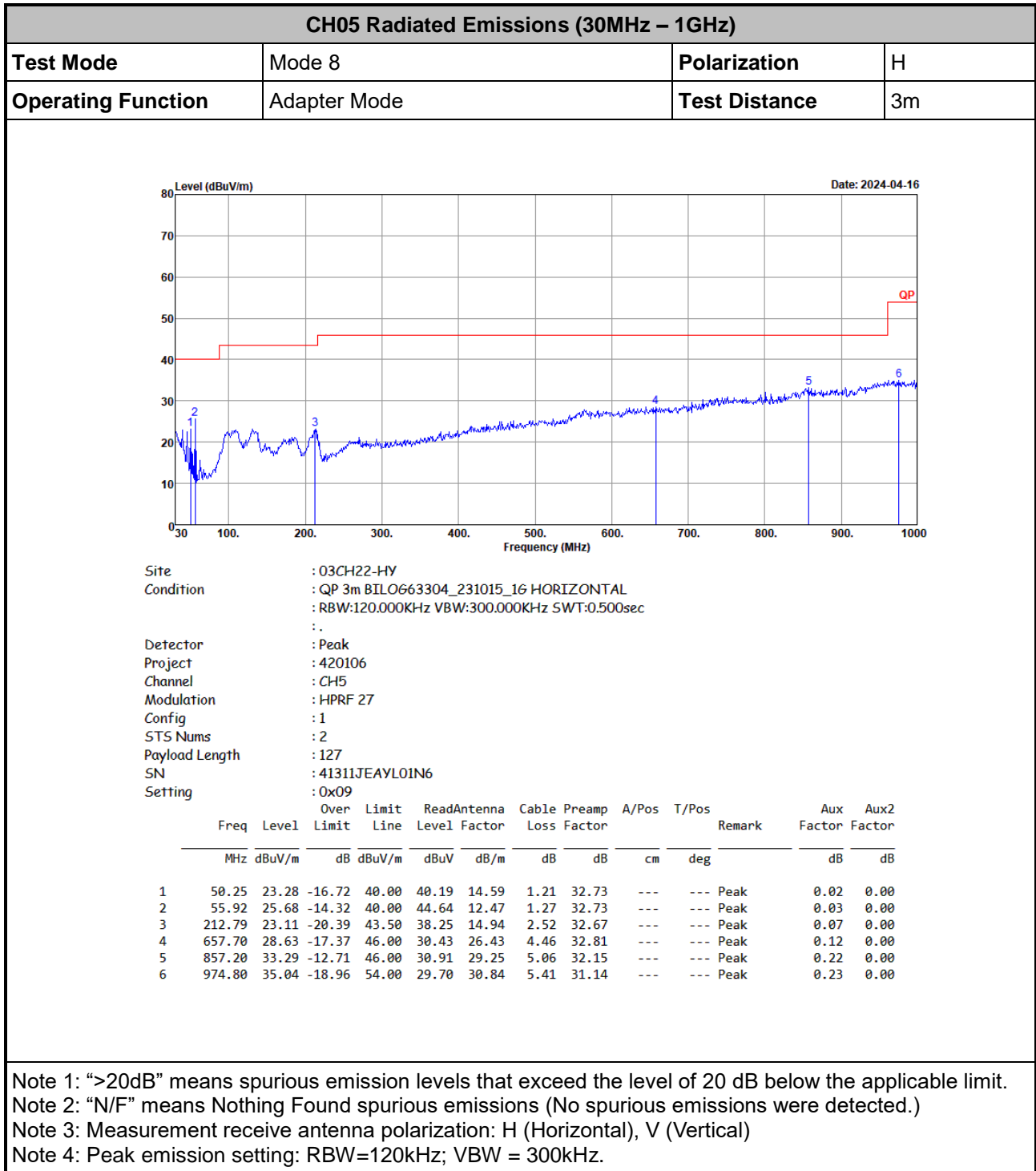
Radiated Emissions (Fundamental)																																																															
Operating Function	Adapter Mode for CH05; Without Adapter Mode for CH09	Polarization	V																																																												
		Test Distance	3m																																																												
Mode 13		Mode 14																																																													
<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2004A18EN_230712 VERTICAL :RBW:1000.000kHz VBW:10.000kHz SWT:Auto</p> <p>Detector : Average Project : 420106 Channel : CH9 Modulation : BPRF 10 Config : 1 STS Name : 1 Payload Length : 127 SN : 41311EAYL01N6 Setting : 0x18</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7987.00</td> <td>52.69</td> <td>-1.24</td> <td>53.93</td> <td>35.86</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>---</td> <td>--- Peak</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 7987.00	52.69	-1.24	53.93	35.86	37.27	16.13	36.57	---	--- Peak	<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2004A18EN_230712 VERTICAL :RBW:1000.000kHz VBW:10.000kHz SWT:Auto</p> <p>Detector : Average Project : 420106 Channel : CH9 Modulation : BPRF 9 Config : 3 STS Name : 1 Payload Length : 0 SN : 41311EAYL01N6 Setting : 0x18</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7987.00</td> <td>53.56</td> <td>-0.37</td> <td>53.93</td> <td>36.73</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>---</td> <td>--- Peak</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 7987.00	53.56	-0.37	53.93	36.73	37.27	16.13	36.57	---	--- Peak
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 7987.00	52.69	-1.24	53.93	35.86	37.27	16.13	36.57	---	--- Peak																																																						
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 7987.00	53.56	-0.37	53.93	36.73	37.27	16.13	36.57	---	--- Peak																																																						
Mode 15		Mode 16																																																													
<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2004A18EN_230712 VERTICAL :RBW:1000.000kHz VBW:10.000kHz SWT:Auto</p> <p>Detector : Average Project : 420106 Channel : CH9 Modulation : BPRF 10 Config : 3 STS Name : 1 Payload Length : 0 SN : 41311EAYL01N6 Setting : 0x18</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7987.00</td> <td>53.75</td> <td>-0.18</td> <td>53.93</td> <td>36.92</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>---</td> <td>--- Peak</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 7987.00	53.75	-0.18	53.93	36.92	37.27	16.13	36.57	---	--- Peak	<p>Site Condition: :03CH22-HY :FCC_UWB_HAND 3m LE2004A18EN_230712 VERTICAL :RBW:1000.000kHz VBW:10.000kHz SWT:Auto</p> <p>Detector : Average Project : 420106 Channel : CH9 Modulation : BPRF 27 Config : 0 STS Name : 1 Payload Length : 127 SN : 41311EAYL01N6 Setting : 0x18</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7987.00</td> <td>53.73</td> <td>-0.20</td> <td>53.93</td> <td>36.90</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>---</td> <td>--- Peak</td> </tr> </tbody> </table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 7987.00	53.73	-0.20	53.93	36.90	37.27	16.13	36.57	---	--- Peak
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 7987.00	53.75	-0.18	53.93	36.92	37.27	16.13	36.57	---	--- Peak																																																						
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																						
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																						
1 7987.00	53.73	-0.20	53.93	36.90	37.27	16.13	36.57	---	--- Peak																																																						



Radiated Emissions (Fundamental)																																																																					
Operating Function	Adapter Mode for CH05; Without Adapter Mode for CH09	Polarization	V																																																																		
		Test Distance	3m																																																																		
Mode 17		Mode 18																																																																			
<p>Level (dBuV/m) vs Frequency (MHz) for Mode 17. The graph shows a signal level around 50 dBuV/m with a peak at 7987.00 MHz. A red horizontal line indicates the FCC_UWB_BAND limit at approximately 55 dBuV/m.</p>		<p>Level (dBuV/m) vs Frequency (MHz) for Mode 18. The graph shows a signal level around 50 dBuV/m with a peak at 7987.00 MHz. A red horizontal line indicates the FCC_UWB_BAND limit at approximately 55 dBuV/m.</p>																																																																			
<p>Site : :03CH22-HY Condition : :FCC_UWB_BAND 3m LE2C04A18EN_230712 VERTICAL : :RBW:1000.000KHz VBW:10.000KHz SWT:Auto : :</p> <p>Detector : :Average Project : :420J06 Channel : :CH9 Modulation : :HPRF Z7 Config : :1 STS Name : :2 Payload Length : :127 SN : :41311TEAYL01N6 Setting : :0dB</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7987.00</td> <td>53.01</td> <td>-0.92</td> <td>53.93</td> <td>36.18</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>...</td> <td>...</td> <td>Peak</td> </tr> </tbody> </table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	1	7987.00	53.01	-0.92	53.93	36.18	37.27	16.13	36.57	Peak	<p>Site : :03CH22-HY Condition : :FCC_UWB_BAND 3m LE2C04A18EN_230712 VERTICAL : :RBW:1000.000KHz VBW:10.000KHz SWT:Auto : :</p> <p>Detector : :Average Project : :420J06 Channel : :CH9 Modulation : :HPRF Z7 Config : :3 STS Name : :2 Payload Length : :0 SN : :41311TEAYL01N6 Setting : :0dB</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7987.00</td> <td>53.07</td> <td>-0.86</td> <td>53.93</td> <td>36.24</td> <td>37.27</td> <td>16.13</td> <td>36.57</td> <td>...</td> <td>...</td> <td>Peak</td> </tr> </tbody> </table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	1	7987.00	53.07	-0.86	53.93	36.24	37.27	16.13	36.57	Peak
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																															
Freq	Level	Line	Level Factor	Loss Factor																																																																	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB																																																															
1	7987.00	53.01	-0.92	53.93	36.18	37.27	16.13	36.57	Peak																																																										
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																															
Freq	Level	Line	Level Factor	Loss Factor																																																																	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB																																																															
1	7987.00	53.07	-0.86	53.93	36.24	37.27	16.13	36.57	Peak																																																										



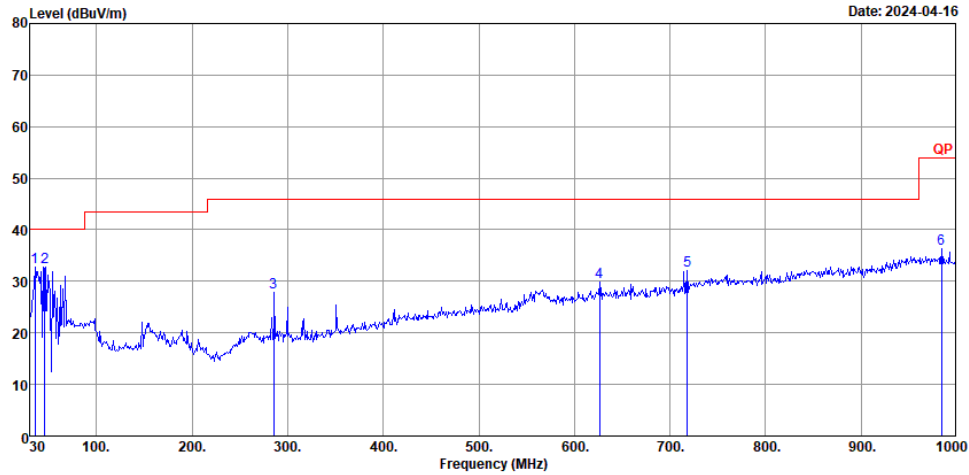
3.5.7 Radiated Emissions (30MHz – 1GHz)





CH05 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 8	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
 Condition : QP 3m BILOG63304_231015_16 VERTICAL
 : RBW:120.000KHz VBW:300.000KHz SWT:0.500sec
 :.
 Detector : Peak
 Project : 420106
 Channel : CH5
 Modulation : HPRF 27
 Config : 1
 STS Nums : 2
 Payload Length : 127
 SN : 41311JEAYL0IN6
 Setting : 0x09

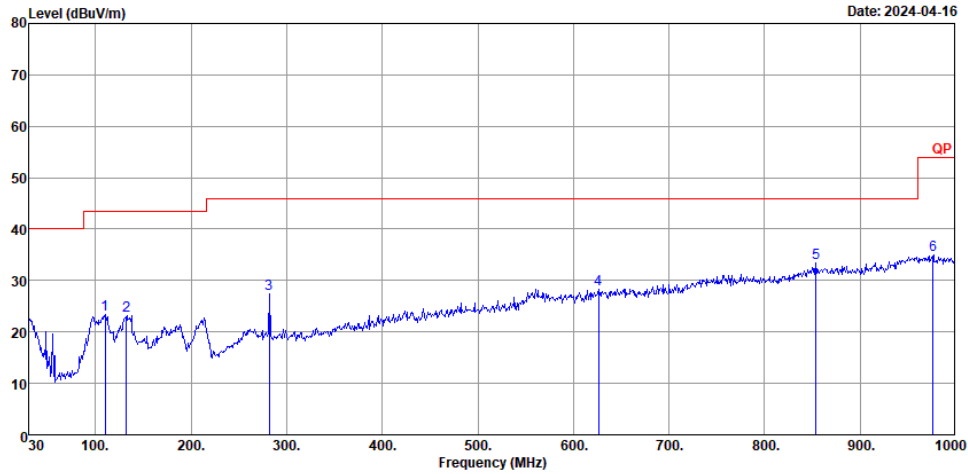
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	Aux Factor	Aux2 Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB	
1	35.67	32.85	-7.15	40.00	42.43	22.19	0.96	32.74	---	---	Peak	0.01	0.00
2	46.20	32.80	-7.20	40.00	47.63	16.72	1.15	32.72	---	---	Peak	0.02	0.00
3	285.69	27.88	-18.12	46.00	38.67	18.91	2.94	32.70	---	---	Peak	0.06	0.00
4	626.20	29.95	-16.05	46.00	32.05	26.24	4.35	32.81	---	---	Peak	0.12	0.00
5	717.90	32.05	-13.95	46.00	32.93	27.09	4.66	32.75	---	---	Peak	0.12	0.00
6	983.90	36.24	-17.76	54.00	30.90	30.69	5.44	31.04	---	---	Peak	0.25	0.00

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.



CH09 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Without Adapter Mode	Test Distance	3m



Date: 2024-04-16

Site : 03CH22-HY
 Condition : QP 3m BILOG63304_231015_1G HORIZONTAL
 : RBW:120.000KHz VBW:300.000KHz SWT:0.500sec
 :.
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

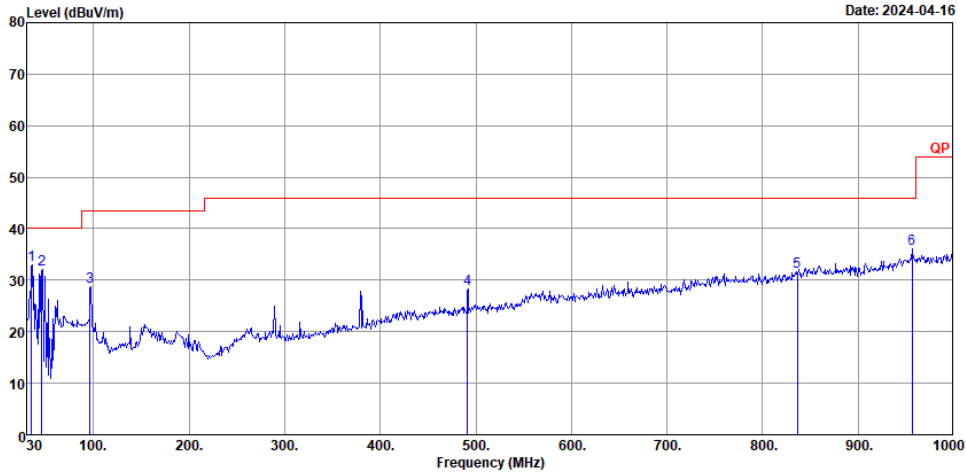
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Aux Factor	Aux2 Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB	
1	109.92	23.35	-20.15	43.50	37.34	16.85	1.83	32.72	---	---	Peak	0.05	0.00
2	132.33	23.15	-20.35	43.50	36.17	17.66	2.00	32.71	---	---	Peak	0.03	0.00
3	281.91	27.34	-18.66	46.00	38.25	18.81	2.92	32.70	---	---	Peak	0.06	0.00
4	626.20	28.37	-17.63	46.00	30.47	26.24	4.35	32.81	---	---	Peak	0.12	0.00
5	853.70	33.43	-12.57	46.00	31.10	29.24	5.04	32.17	---	---	Peak	0.22	0.00
6	976.20	34.88	-19.12	54.00	29.51	30.83	5.42	31.12	---	---	Peak	0.24	0.00

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.



CH09 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Without Adapter Mode	Test Distance	3m



Site : 03CH22-HY
 Condition : QP 3m BILOG63304_231015_16 VERTICAL
 : RBW:120.000KHz VBW:300.000KHz SWT:0.500sec
 :.
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

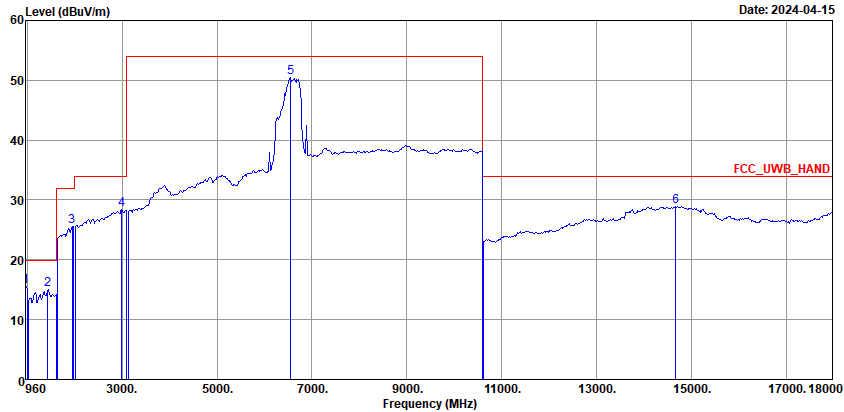
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	Aux Factor	Aux2 Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB	
1	35.13	32.98	-7.02	40.00	42.34	22.42	0.95	32.74	---	---	Peak	0.01	0.00
2	45.66	32.01	-7.99	40.00	46.58	16.99	1.14	32.72	---	---	Peak	0.02	0.00
3	96.15	28.83	-14.67	43.50	44.22	15.59	1.70	32.73	---	---	Peak	0.05	0.00
4	491.10	28.30	-17.70	46.00	33.47	23.74	3.85	32.87	---	---	Peak	0.11	0.00
5	836.20	31.62	-14.38	46.00	29.94	28.76	4.99	32.28	---	---	Peak	0.21	0.00
6	956.60	36.13	-9.87	46.00	30.84	31.06	5.36	31.34	---	---	Peak	0.21	0.00

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 8	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-HV
 Condition : FCC_UWB_HAND 3m LE2C04A18EN_230712 HORIZONTAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:7.500sec
 :.
 Detector : Average
 Project : 420106
 Channel : CH5
 Modulation : HPRF 27
 Config : 1
 STS Nums : 2
 Payload Length : 127
 SN : 41311JEAYL01N6
 Setting : 0x09

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	Aux Factor	Aux2 Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB
1	962.96	15.55	-4.38	19.93	25.82	30.96	5.38	31.27	---	---	Average	0.22 -15.56
2	1430.05	15.05	-4.88	19.93	24.97	24.90	6.54	31.82	---	---	Average	-9.54 0.00
3	1950.48	25.56	-6.37	31.93	24.06	25.90	7.69	32.09	---	---	Average	0.00 0.00
4	2986.78	28.39	-5.54	33.93	22.99	28.30	9.58	32.48	---	---	Average	0.00 0.00
5	6550.00	50.46	-3.47	53.93	34.55	36.50	14.54	35.13	---	---	Average	0.00 0.00
6	14670.00	28.95	-4.98	33.93	22.82	42.74	22.17	43.22	---	---	Average	-15.56 0.00

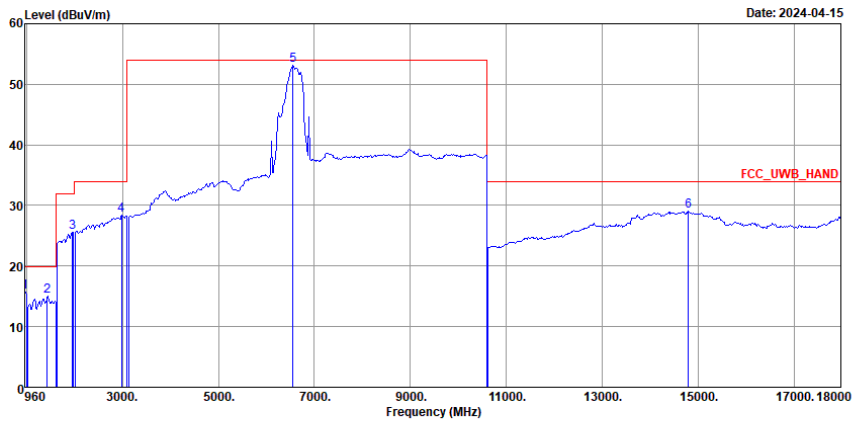
Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: Average emission 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: 30.96 (dB/m) + 5.38 (dB) + 25.82 (dBuV) – 31.27 (dB) + 0.22 dB + (-15.56) (dB) = 15.55 (dBuV/m)



CH05 Radiated Emissions (960MHz – 18GHz)			
Test Mode	Mode 8	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 LE2C04A18EN_230712 VERTICAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:7.500sec
 :.
 Detector : Average
 Project : 420106
 Channel : CH5
 Modulation : HPRF 27
 Config : 1
 STS Num : 2
 Payload Length : 127
 SN : 41311JEAYL0IN6
 Setting : 0x09

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Aux Factor	Aux2 Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		dB	dB
1	968.56	15.65	-4.28	19.93	25.88	30.91	5.40	31.21	---	---	Average	0.23	-15.56
2	1433.10	15.07	-4.86	19.93	24.98	24.90	6.55	31.82	---	---	Average	-9.54	0.00
3	1953.52	25.60	-6.33	31.93	24.05	25.94	7.70	32.09	---	---	Average	0.00	0.00
4	2979.01	28.39	-5.54	33.93	23.01	28.30	9.56	32.48	---	---	Average	0.00	0.00
5	6550.00	53.11	-0.82	53.93	37.20	36.50	14.54	35.13	---	---	Average	0.00	0.00
6	14795.80	29.00	-4.93	33.93	23.00	42.69	22.28	43.41	---	---	Average	-15.56	0.00

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.

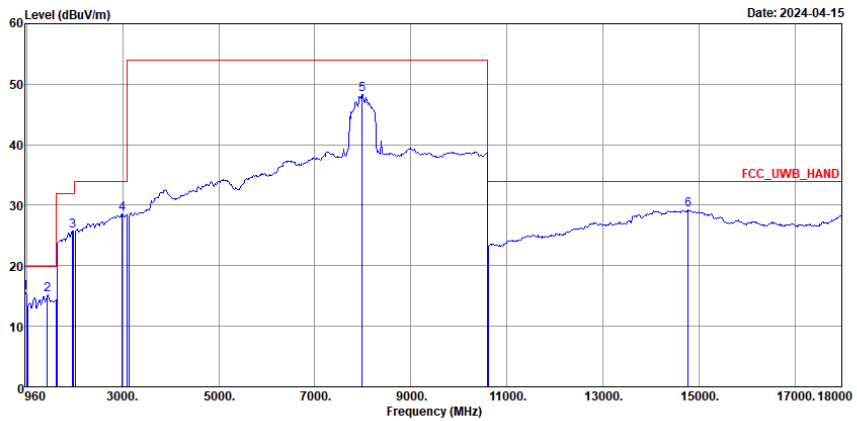
Note 7:

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



CH09 Radiated Emissions (960MHz – 18GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Without 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 LE2C04A18EN_230712 HORIZONTAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:7.500sec
 :.
 Detector : Average
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

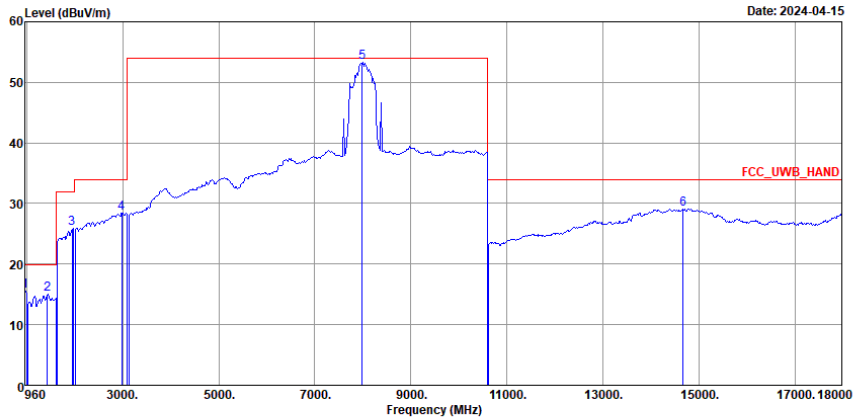
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	A/Pos	T/Pos	Remark	Aux	Aux2
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		dB	dB
1	967.08	15.54	-4.39	19.93	25.79	30.92	5.39	31.22	---	---	Average	0.22	-15.56
2	1431.88	15.18	-4.75	19.93	25.09	24.90	6.55	31.82	---	---	Average	-9.54	0.00
3	1954.28	25.78	-6.15	31.93	24.23	25.94	7.70	32.09	---	---	Average	0.00	0.00
4	2985.67	28.50	-5.43	33.93	23.11	28.30	9.57	32.48	---	---	Average	0.00	0.00
5	7990.00	48.36	-5.57	53.93	31.53	37.28	16.13	36.58	---	---	Average	0.00	0.00
6	14781.00	29.18	-4.75	33.93	23.20	42.66	22.27	43.39	---	---	Average	-15.56	0.00

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)
 • 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)



CH09 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 LE2C04A18EN_230712 VERTICAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:7.500sec
 :
 Detector : Average
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Aux	Aux2
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB
1	968.24	15.48	-4.45	19.93	25.71	30.92	5.39	31.21	---	---	Average	0.23 -15.56
2	1431.27	15.11	-4.82	19.93	25.02	24.90	6.55	31.82	---	---	Average	-9.54 0.00
3	1950.10	25.82	-6.11	31.93	24.32	25.90	7.69	32.09	---	---	Average	0.00 0.00
4	2977.90	28.45	-5.48	33.93	23.07	28.30	9.56	32.48	---	---	Average	0.00 0.00
5	7990.00	53.31	-0.62	53.93	36.48	37.28	16.13	36.58	---	---	Average	0.00 0.00
6	14677.40	29.11	-4.82	33.93	22.98	42.75	22.17	43.23	---	---	Average	-15.56 0.00

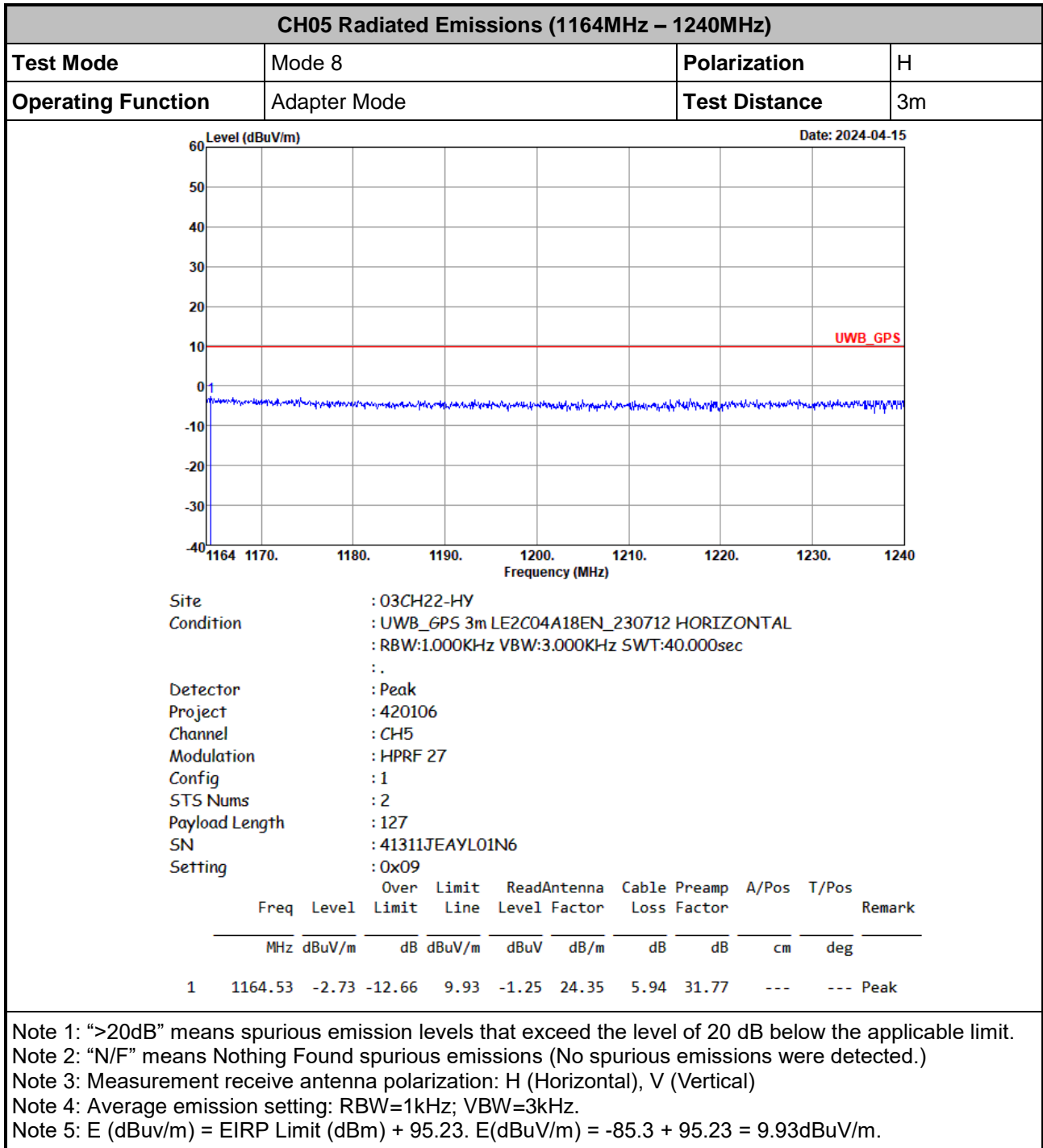
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: Average emission 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)
- 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)



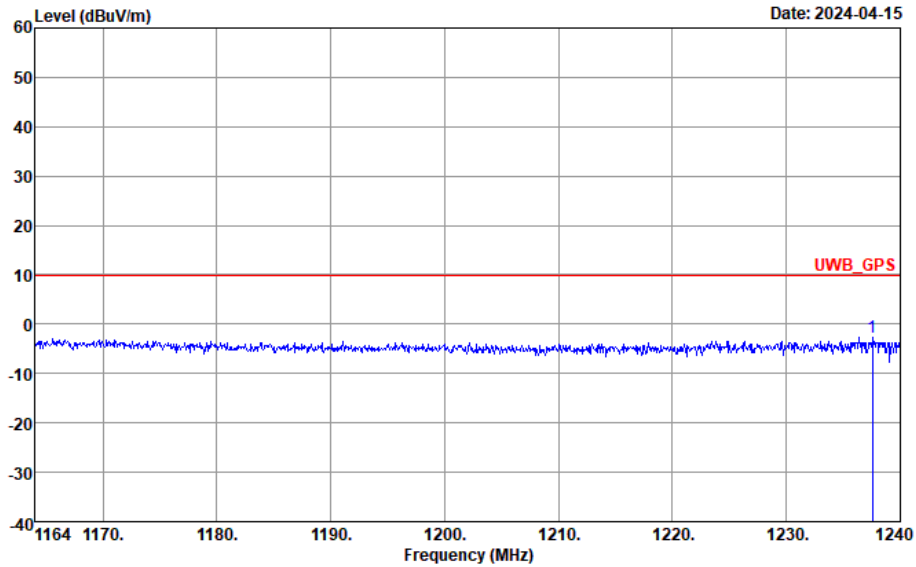
3.5.9 Radiated Emissions (1164MHz – 1240MHz)





CH05 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 8	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
 Condition : UWB_GPS 3m LE2C04A18EN_230712 VERTICAL
 : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH5
 Modulation : HPRF 27
 Config : 1
 STS Nums : 2
 Payload Length : 127
 SN : 41311JEAYL01N6
 Setting : 0x09

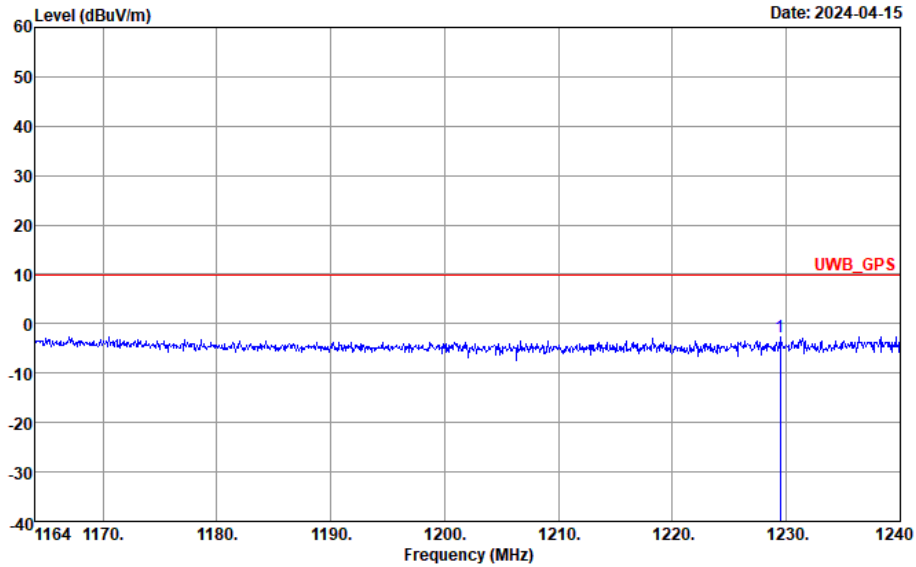
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1237.57	-2.76	-12.69	9.93	-1.00	23.90	6.12	31.78	---	---	Peak

- 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 (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Without Adapter Mode	Test Distance	3m



Site : 03CH22-HY
 Condition : UWB_GPS 3m LE2C04A18EN_230712 HORIZONTAL
 : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Num : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

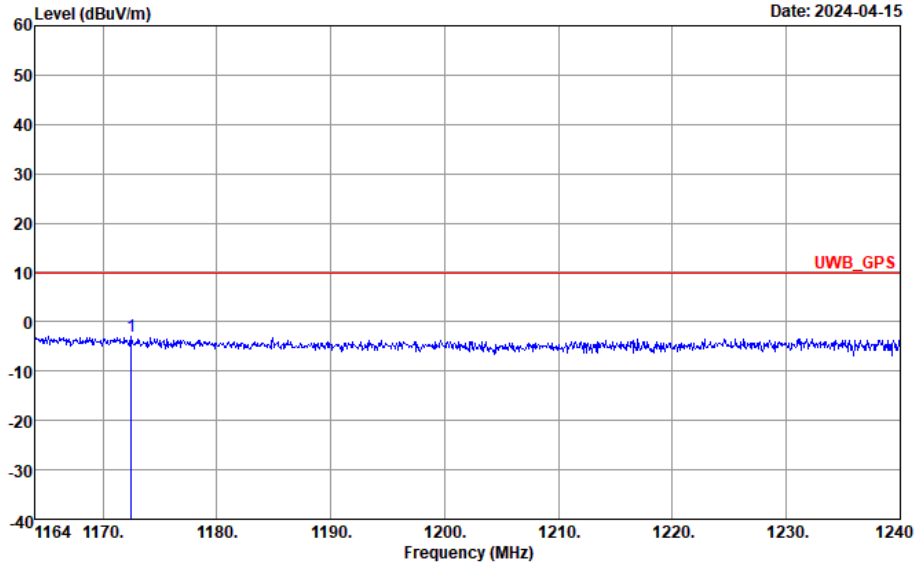
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1229.44	-2.67	-12.60	9.93	-0.89	23.90	6.10	31.78	---	---	Peak

- 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 (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Without Adapter Mode	Test Distance	3m



Site : 03CH22-HY
 Condition : UWB_GPS 3m LE2C04A18EN_230712 VERTICAL
 : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Num : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1172.51	-2.91	-12.84	9.93	-1.32	24.22	5.96	31.77	---	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 (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



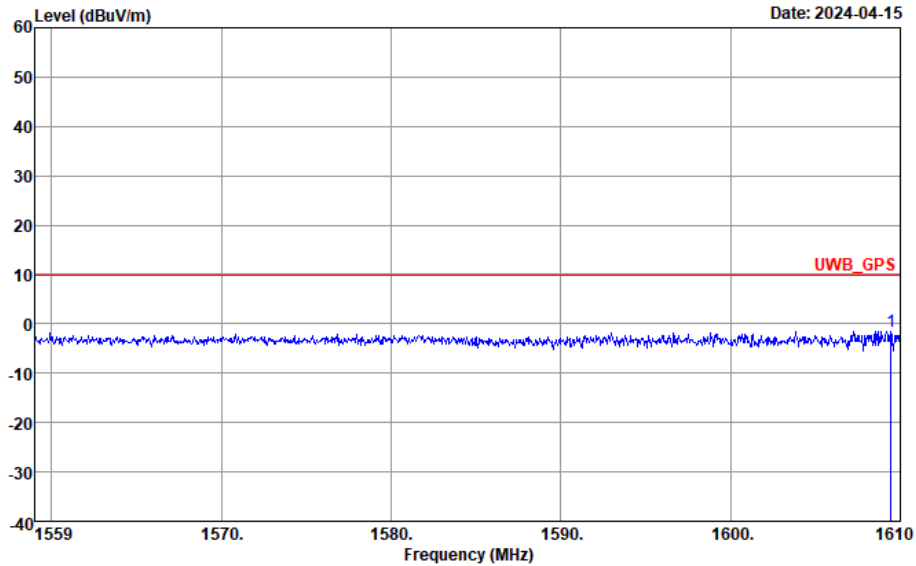
3.5.10 Radiated Emissions (1559MHz – 1610MHz)

CH05 Radiated Emissions (1559MHz – 1610MHz)																																					
Test Mode	Mode 8	Polarization	H																																		
Operating Function	Adapter Mode	Test Distance	3m																																		
<div style="text-align: right;">Date: 2024-04-15</div> <p>Site : 03CH22-HY Condition : UWB_GPS 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec : . Detector : Peak Project : 420106 Channel : CH5 Modulation : HPRF 27 Config : 1 STS Nums : 2 Payload Length : 127 SN : 41311JEAYL01N6 Setting : 0x09</p> <table border="1"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>ReadAntenna Level</th> <th>Cable Factor</th> <th>Preamp Loss</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1609.80</td> <td>-1.43</td> <td>-11.36</td> <td>9.93</td> <td>-1.01</td> <td>24.50</td> <td>6.97</td> <td>31.89</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> </tbody> </table>					Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	1609.80	-1.43	-11.36	9.93	-1.01	24.50	6.97	31.89	---	---	Peak
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark																											
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																											
1	1609.80	-1.43	-11.36	9.93	-1.01	24.50	6.97	31.89	---	---	Peak																										
<p>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 (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.</p>																																					



CH05 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 8	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH22-HY
 Condition : UWB_GPS 3m LE2C04A18EN_230712 VERTICAL
 : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH5
 Modulation : HPRF 27
 Config : 1
 STS Num : 2
 Payload Length : 127
 SN : 41311JEAYL01N6
 Setting : 0x09

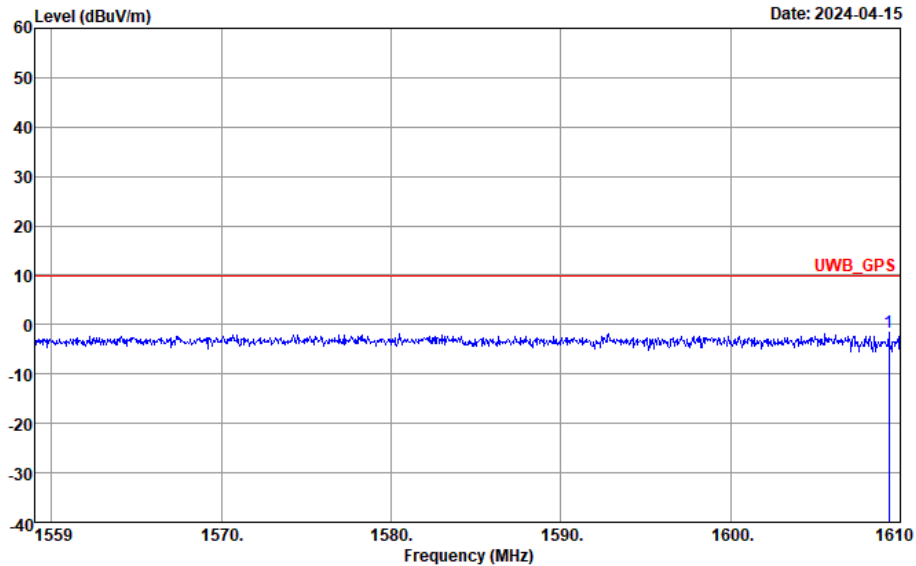
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1609.44	-1.43	-11.36	9.93	-1.00	24.49	6.97	31.89	---	---	Peak

- 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 (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Without Adapter Mode	Test Distance	3m



Site : 03CH22-HY
 Condition : UWB_GPS 3m LE2C04A18EN_230712 HORIZONTAL
 : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

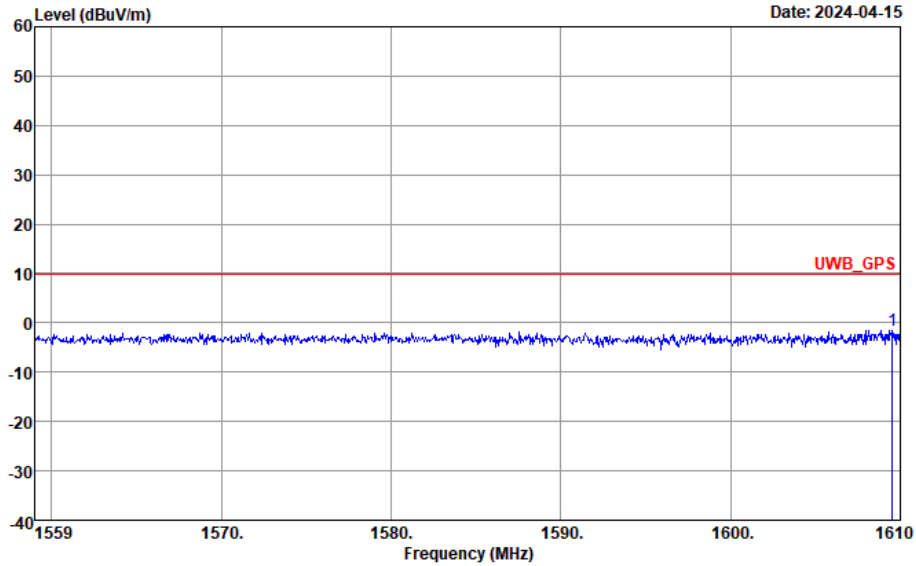
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1609.34	-1.43	-11.36	9.93	-1.00	24.49	6.97	31.89	---	---	Peak

- 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 (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Without Adapter Mode	Test Distance	3m



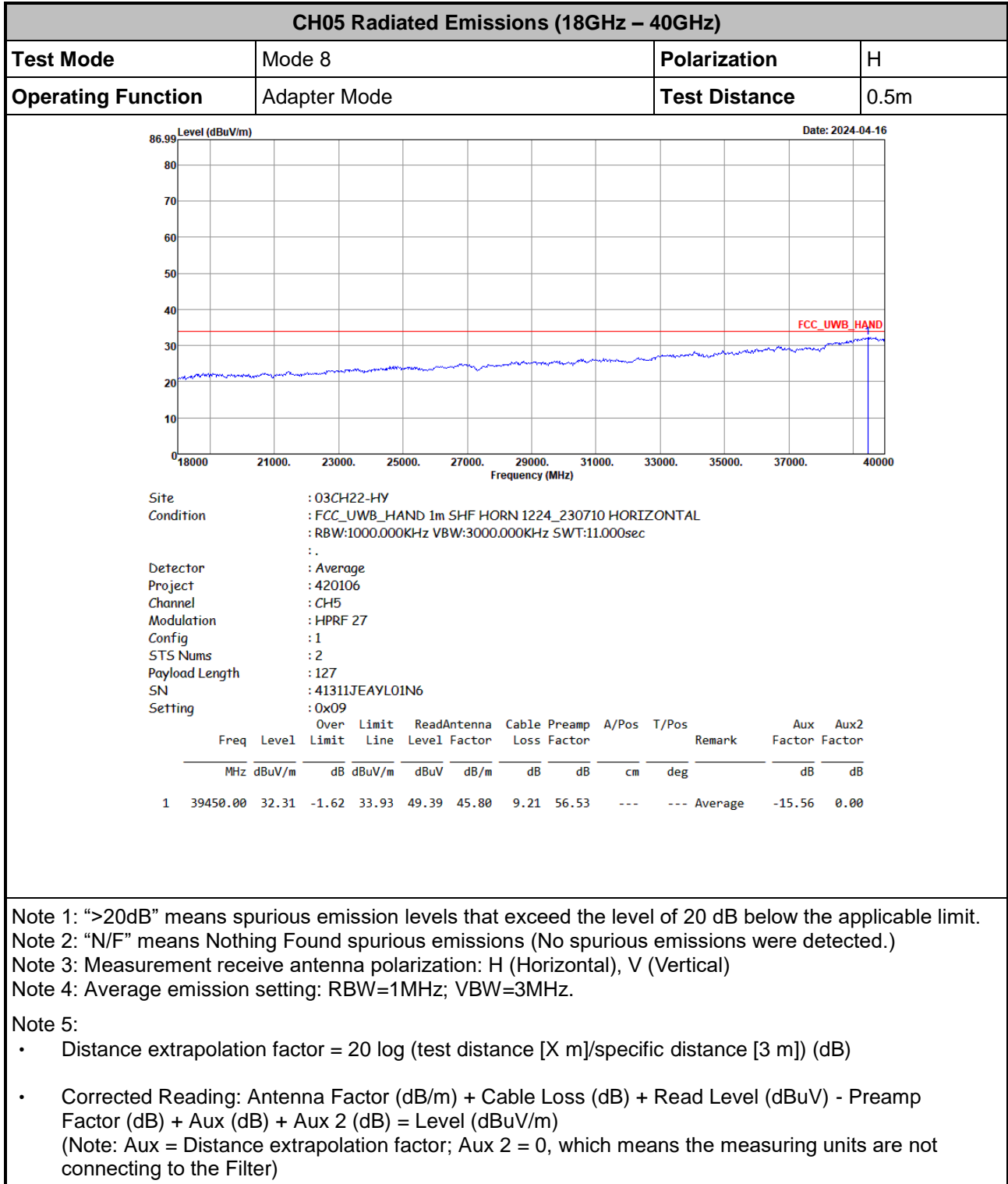
Site : 03CH22-HY
 Condition : UWB_GPS 3m LE2C04A18EN_230712 VERTICAL
 : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec
 :
 Detector : Peak
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1609.54	-1.43	-11.36	9.93	-1.01	24.50	6.97	31.89	---	---	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 (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



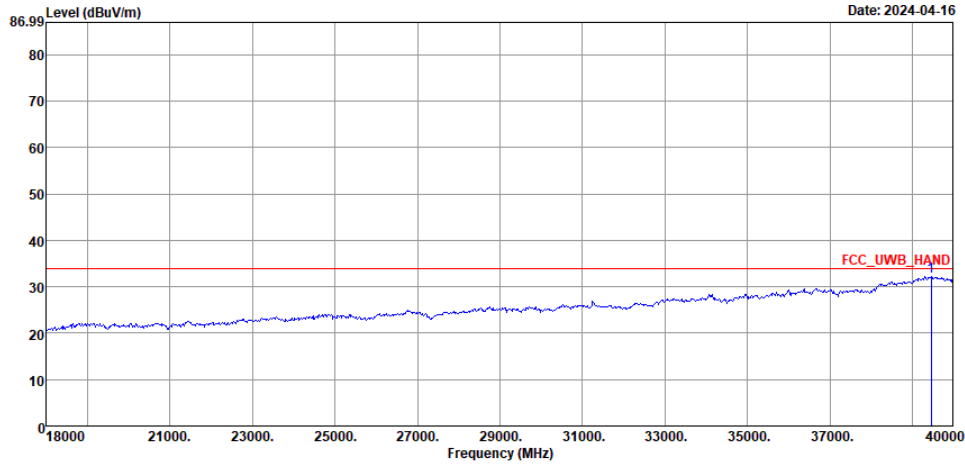
3.5.11 Radiated Emissions (18GHz – 40GHz)





CH05 Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 8	Polarization	V
Operating Function	Adapter Mode	Test Distance	0.5m



Site : 03CH22-HY
 Condition : FCC_UWB_HAND 1m SHF HORN 1224_230710 VERTICAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:11.000sec
 : .
 Detector : Average
 Project : 420106
 Channel : CH5
 Modulation : HPRF 27
 Config : 1
 STS Nums : 2
 Payload Length : 127
 SN : 41311JEAYL01N6
 Setting : 0x09

Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Aux	Aux2					
Limit	Line	Level Factor	Loss Factor			Remark	Factor	Factor					
dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB				
1	39450.00	32.19	-1.74	33.93	49.27	45.80	9.21	56.53	---	---	Average	-15.56	0.00

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.

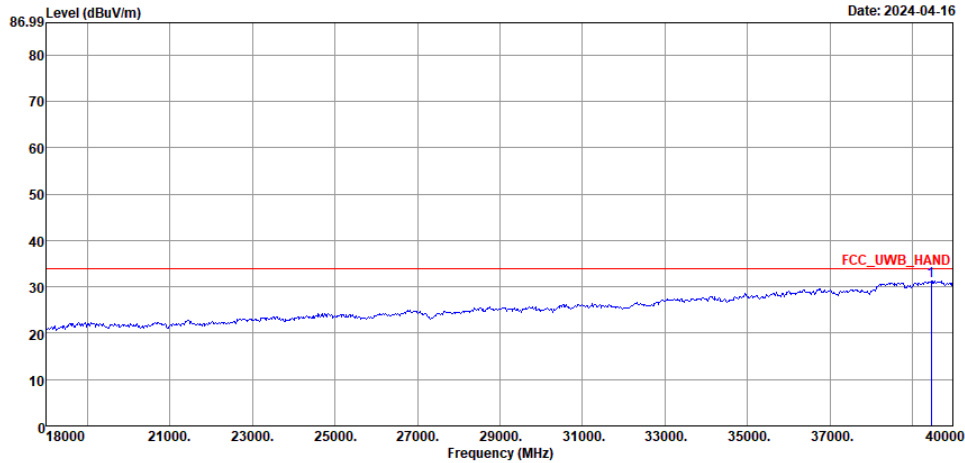
Note 5:

- Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux (dB) + Aux 2 (dB) = Level (dBuV/m)
(Note: Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter)



CH09 Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Without Adapter Mode	Test Distance	0.5m



Site : 03CH22-HY
 Condition : FCC_UWB_HAND 1m SHF HORN 1224_230710 HORIZONTAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:11.000sec
 :.
 Detector : Average
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	Aux Factor	Aux2 Factor
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB
1 39450.00	31.31	-2.62	33.93	48.39	45.80	9.21	56.53	---	---	Average	-15.56 0.00

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.

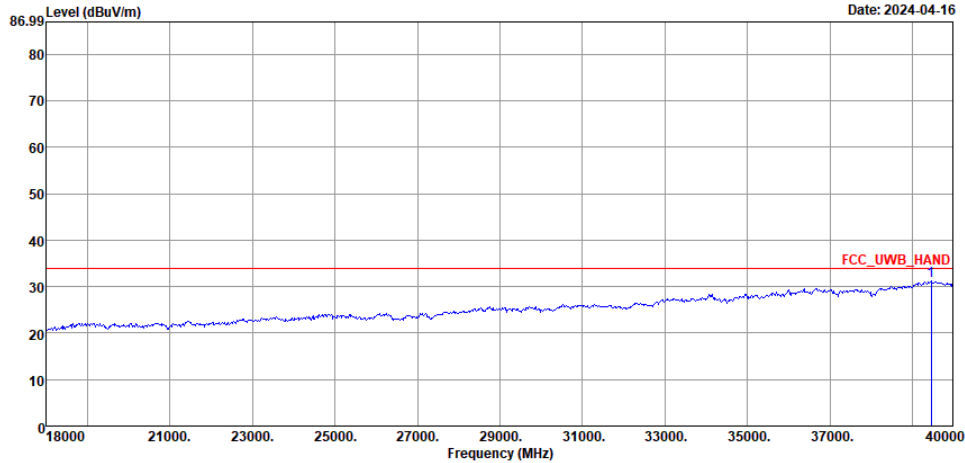
Note 5:

- Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux (dB) + Aux 2 (dB) = Level (dBuV/m)
(Note: Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter)



CH09 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 SHF HORN 1224_230710 VERTICAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:11.000sec
 : .
 Detector : Average
 Project : 420106
 Channel : CH9
 Modulation : BPRF 10
 Config : 3
 STS Nums : 1
 Payload Length : 0
 SN : 41291JEAYW00T1
 Setting : 0x19

Over	Limit	Read	Antenna	Cable	Preamp	A/Pos	T/Pos	Aux	Aux2	
Limit	Line	Level	Factor	Loss	Factor			Factor	Factor	
dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	dB	dB	
-2.74	33.93	48.27	45.80	9.21	56.53	---	---	Average	-15.56	0.00

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 (test distance [X m]/specific distance [3 m]) (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux (dB) + Aux 2 (dB) = Level (dBuV/m)
(Note: Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter)



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	9 kHz~30 MHz	Sep 12, 2023	Mar. 29, 2024~ Apr. 16, 2024	Sep 11, 2024	Radiation (03CH22-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Oct 15, 2023	Mar. 29, 2024~ Apr. 16, 2024	Oct 14, 2024	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 15, 2023	Mar. 29, 2024~ Apr. 16, 2024	Jul. 14, 2024	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	Jul. 12, 2023	Mar. 29, 2024~ Apr. 16, 2024	Jul. 11, 2024	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 28, 2023	Mar. 29, 2024~ Apr. 16, 2024	Sep. 27, 2024	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Aug. 31, 2023	Mar. 29, 2024~ Apr. 16, 2024	Aug. 30, 2024	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211559	N/A	Nov. 16, 2023	Mar. 29, 2024~ Apr. 16, 2024	Nov. 15, 2024	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 29, 2024~ Apr. 16, 2024	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 29, 2024~ Apr. 16, 2024	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 29, 2024~ Apr. 16, 2024	N/A	Radiation (03CH22-HY)
Software	Audix	E3 6.09824_2019122	RK-002347	N/A	N/A	Mar. 29, 2024~ Apr. 16, 2024	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Mar. 29, 2024~ Apr. 16, 2024	Mar. 05, 2025	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,8046 11/2,804615/2	N/A	Oct. 24, 2023	Mar. 29, 2024~ Apr. 16, 2024	Oct. 23, 2024	Radiation (03CH22-HY)
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	RBW 50MHz	Feb. 19, 2024	Mar. 29, 2024~ Apr. 16, 2024	Feb. 18, 2025	Radiation (03CH22-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Apr. 15, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 15, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Apr. 15, 2024	Oct. 19, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Apr. 15, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Apr. 15, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Apr. 15, 2024	Sep. 19, 2024	Conduction (CO07-HY)

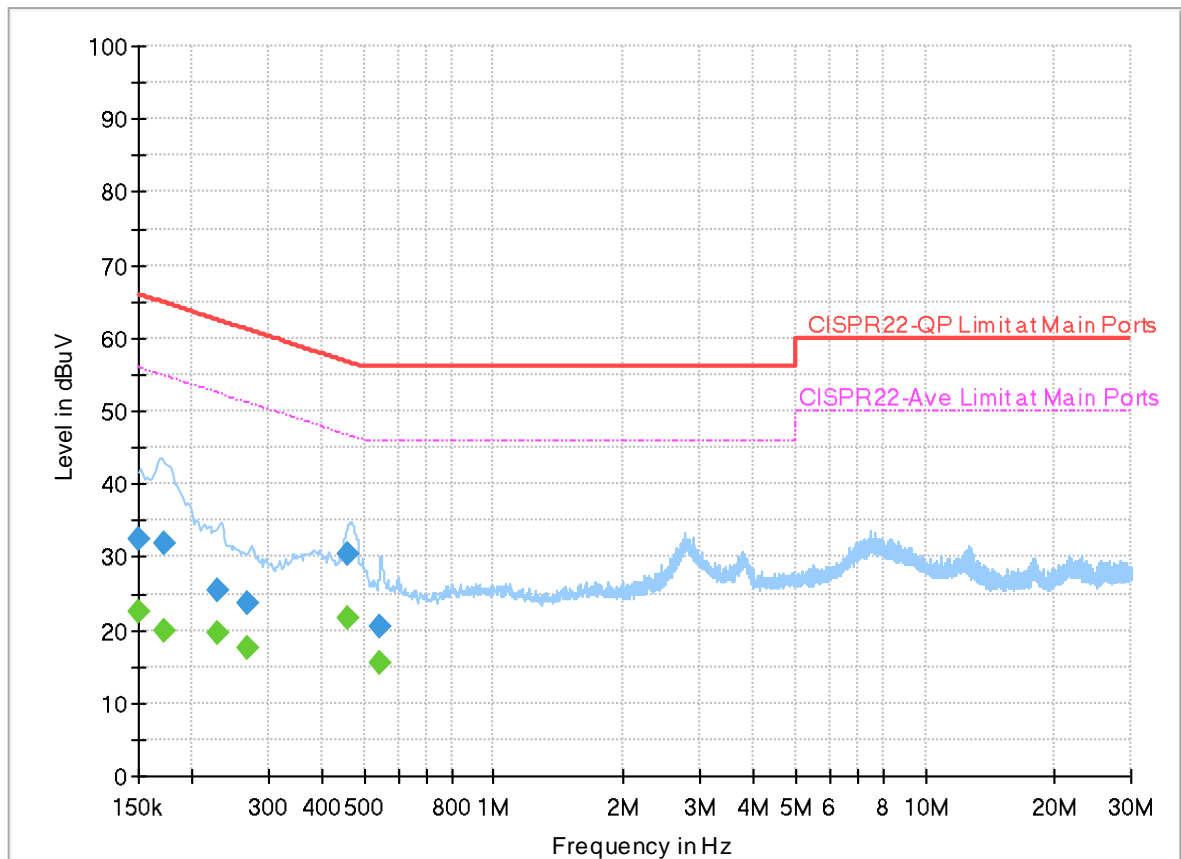


Appendix A. AC Conducted Emission Test Results

EUT Information

Report NO : 420106
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



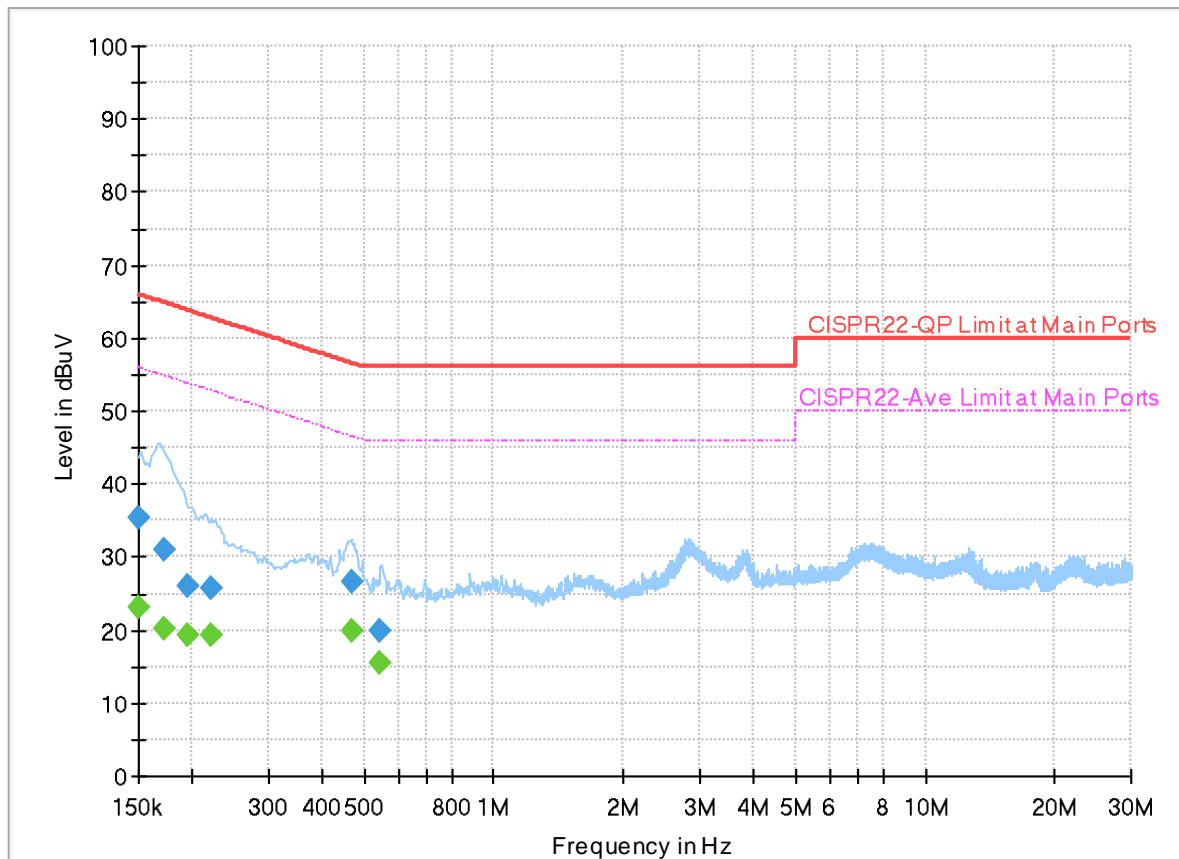
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	22.47	56.00	33.53	L1	OFF	19.9
0.150000	32.52	---	66.00	33.48	L1	OFF	19.9
0.172500	---	19.75	54.84	35.09	L1	OFF	19.9
0.172500	32.01	---	64.84	32.83	L1	OFF	19.9
0.228750	---	19.69	52.50	32.81	L1	OFF	19.9
0.228750	25.41	---	62.50	37.09	L1	OFF	19.9
0.269160	---	17.68	51.14	33.46	L1	OFF	19.9
0.269160	23.62	---	61.14	37.52	L1	OFF	19.9
0.460500	---	21.68	46.68	25.00	L1	OFF	19.9
0.460500	30.32	---	56.68	26.36	L1	OFF	19.9
0.545820	---	15.54	46.00	30.46	L1	OFF	19.9
0.545820	20.46	---	56.00	35.54	L1	OFF	19.9

EUT Information

Report NO : 420106
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	23.11	56.00	32.89	N	OFF	19.9
0.150000	35.37	---	66.00	30.63	N	OFF	19.9
0.172500	---	20.06	54.84	34.78	N	OFF	19.9
0.172500	30.97	---	64.84	33.87	N	OFF	19.9
0.195000	---	19.27	53.82	34.55	N	OFF	19.9
0.195000	25.92	---	63.82	37.90	N	OFF	19.9
0.222000	---	19.21	52.74	33.53	N	OFF	19.9
0.222000	25.61	---	62.74	37.13	N	OFF	19.9
0.469500	---	19.88	46.52	26.64	N	OFF	19.9
0.469500	26.53	---	56.52	29.99	N	OFF	19.9
0.546000	---	15.59	46.00	30.41	N	OFF	19.9
0.546000	19.94	---	56.00	36.06	N	OFF	19.9

THE END