



FCC Radio Test Report

Applicant : Relay, Inc.
Equipment : Relay
Brand Name : Relay
Model Name : RY2268
FCC ID : 2AMBHRY2268
Standard : 47 CFR FCC Part 15.519
Test Date(S) : Mar. 27, 2024 ~ May 18, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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History of this test report

Report No.	Version	Description	Issued Date
FR250507H	01	Initial issue of report	May 30, 2024

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.4	15.203 15.519(a)(2)	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
3.4	15.519(a)(1)	Technical requirements for Hand Held UWB systems	PASS	15.519(a)(1)
3.4	15.519(e)	Peak Emissions within a 50 MHz Bandwidth	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:

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



1 General Description

1.1 Applicant

Relay, Inc.

4200 Six Forks Rd, Suite 1800, Raleigh, NC 27609, USA

1.2 Manufacturer

Relay, Inc.

4200 Six Forks Rd, Suite 1800, Raleigh, NC 27609, USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Relay
Brand Name	Relay
Model Name	RY2268
FCC ID	2AMBHRY2268
IMEI Code	Conduction: 990007570009446/990007570009453 Radiation: 990007570009388
HW Version	v01
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Channel Number & Tx/Rx Frequency Range	CH05: 6489.6 MHz CH09: 7987.2 MHz
Antenna Type	<Ant. 5> : PIFA Antenna <Ant. 6> : PIFA Antenna
UWB category	hand held device
Antenna Gain	<CH05> <Ant. 6> : 0.01 dBi <CH09> <Ant. 6> : 0.1 dBi
Type of Modulation	BPM-BPSK

Note: Ant.5 is Rx only.

1.5 Modification of EUT

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

1.6 Type of EUT

Operational Condition	
EUT Power Type	From Battery
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:

1.7 Testing Location Information

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS	CN1257	314309

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Conduction	CO01-KS	Amos Zhang	25.3 ~ 26.2 °C 38 ~ 40 %	Mar. 27, 2024
Radiated	03CH06-KS	Leve Zhao	22 ~ 23 °C 41 ~ 42 %	Apr. 30, 2024

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24



1.9 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 15F
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 393764 D01 v02
- ♦ FCC KDB 412172 D01 v01r01




2 Test Configuration of EUT

2.1 Test Mode

Test Configuration					
Mode	UWB Antenna	UWB Channel	preamble_cidx	rx_sts_mode	packet_length
1	6	5	10	SP 0	4
2	6	5	10	SP 0	127
3	6	5	10	SP 1	4
4	6	5	10	SP 1	127
5	6	5	10	SP 3	0
6	6	5	27	SP 0	4095
7	6	5	27	SP 1	4095
8	6	5	27	SP 3	0
9	6	9	10	SP 0	4
10	6	9	10	SP 0	127
11	6	9	10	SP 1	4
12	6	9	10	SP 1	127
13	6	9	10	SP 3	0
14	6	9	27	SP 0	4095
15	6	9	27	SP 1	4095
16	6	9	27	SP 3	0

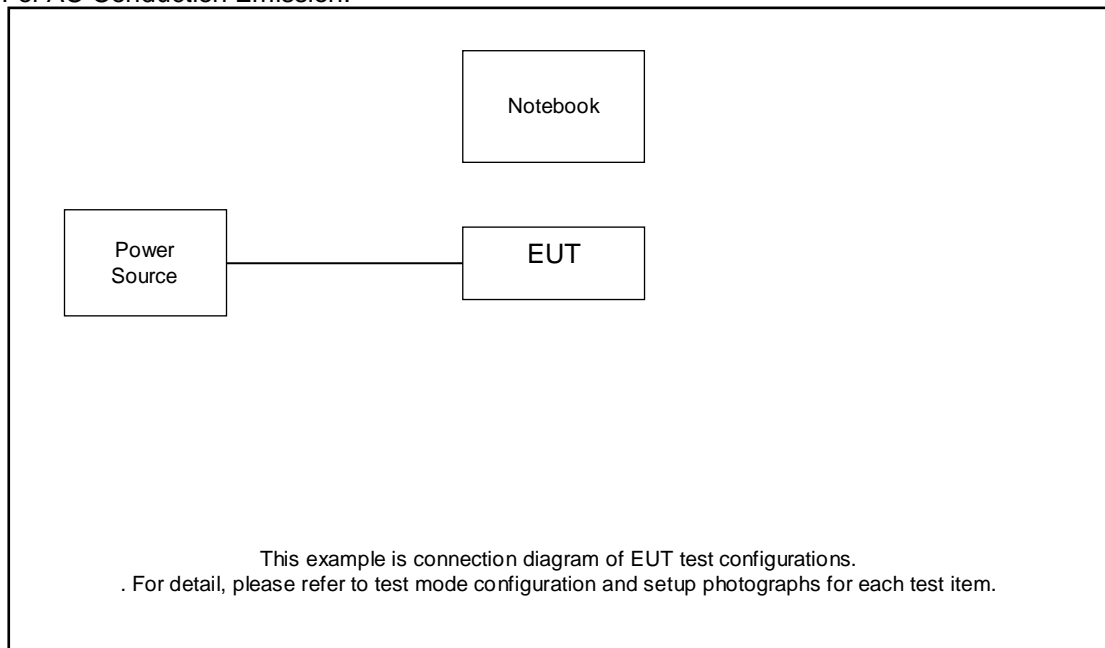
2.2 The Worst Case Measurement Configuration

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

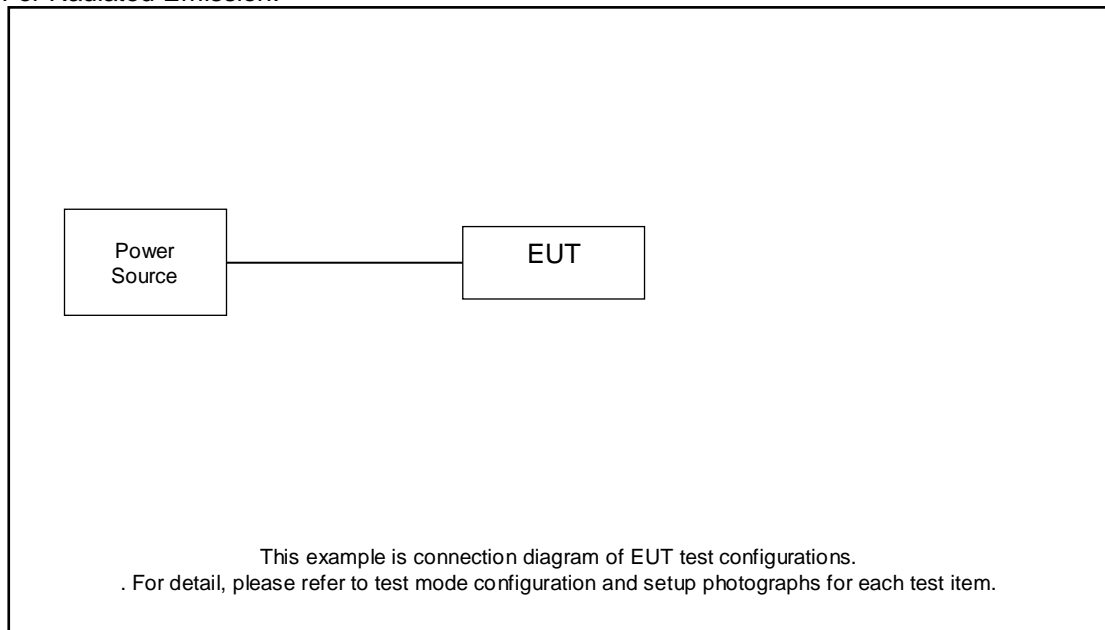
The Worst Case Mode for Following Conformance Tests			
Tests Item	UWB Bandwidth, Peak Emissions within a 50 MHz Bandwidth, Radiated Emissions		
Test Condition	Radiated measurement		
Operating Mode	CTX		
1	Adapter Mode		
Mode 1 configuration was tested and found to be the worst case and measured during the test.			
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	
Remark: 1. 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 Y plane as worst plane and recorded in this report. 2. All the tests were performed with Adapter and USB Cable. 3. During the preliminary test, the adaptor mode is the worst case for official test.			

2.3 Test Setup Diagram

For AC Conduction Emission:



For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m

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.

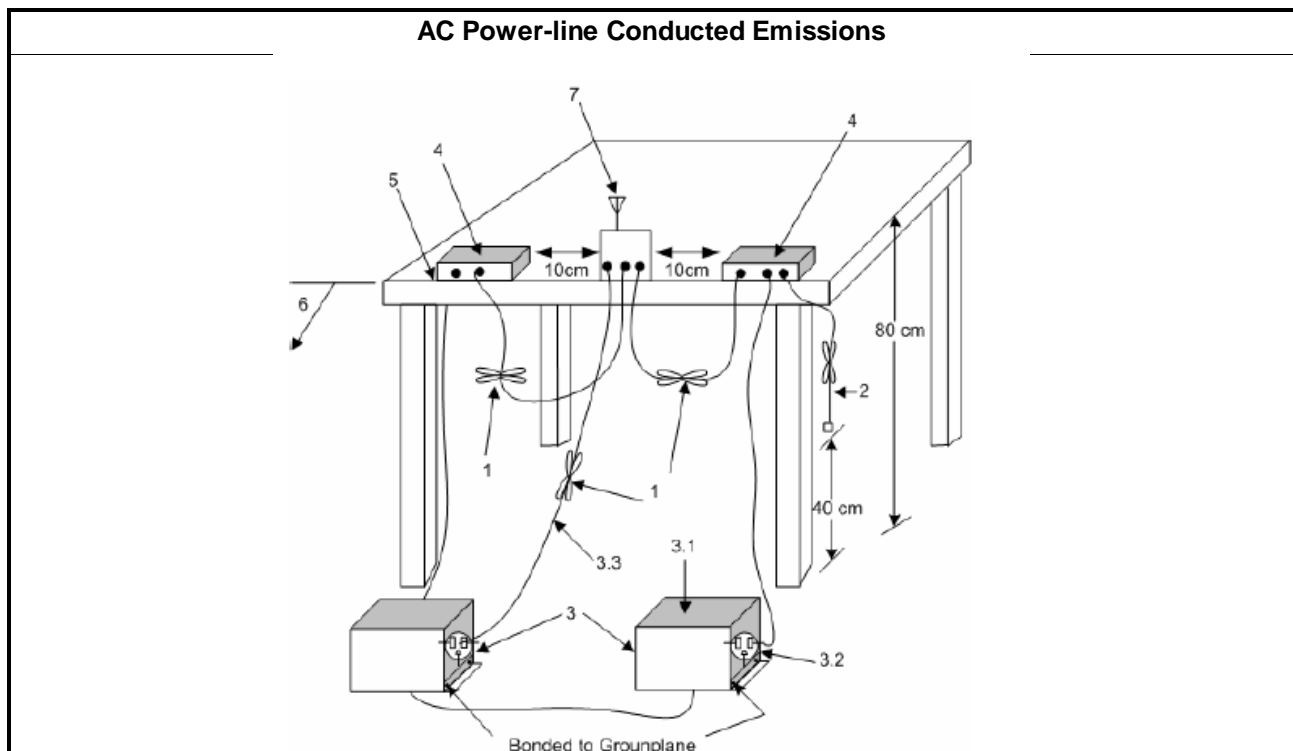
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

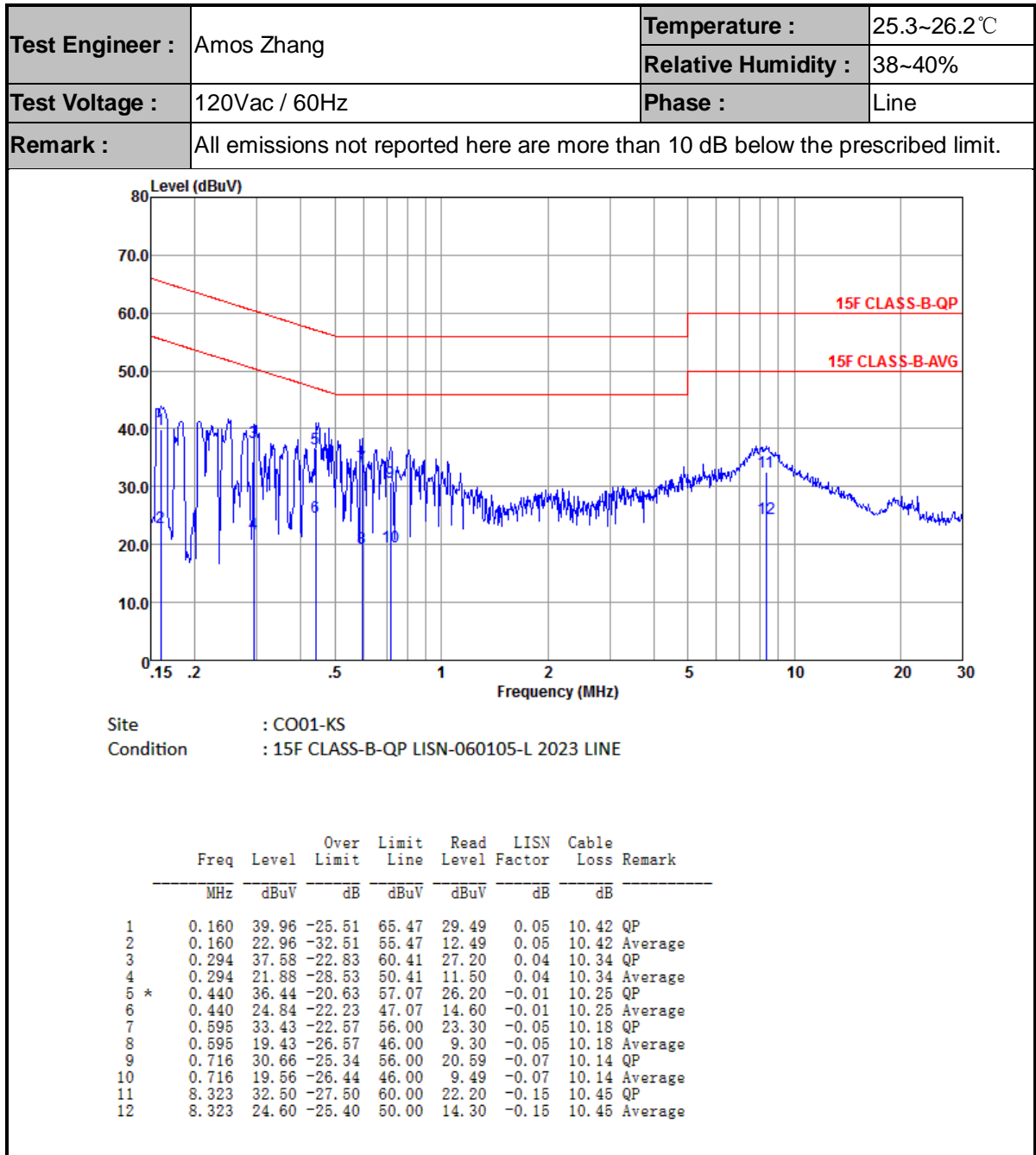
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



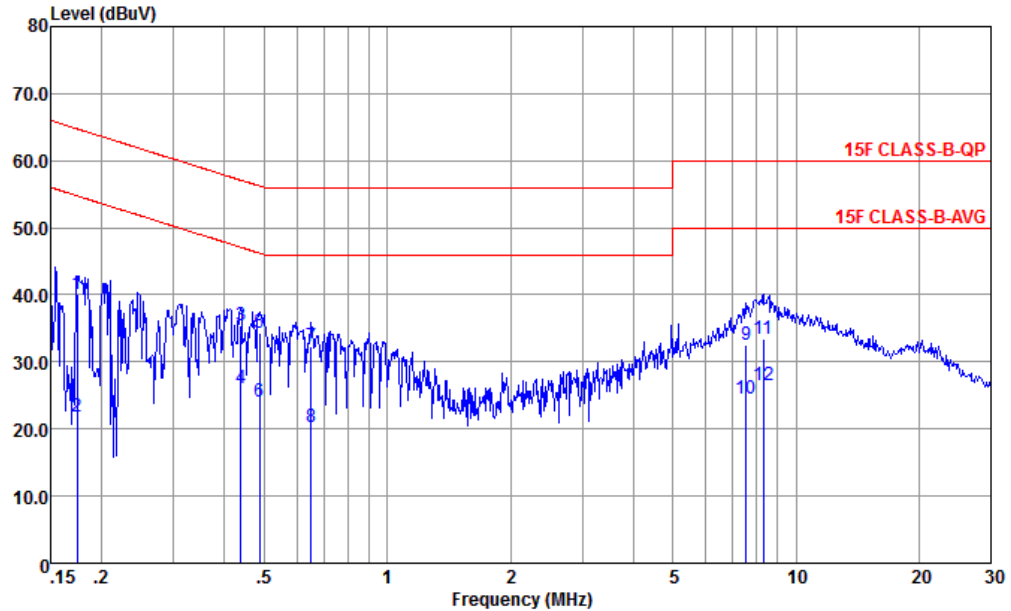


3.1.5 Test Result





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15F CLASS-B-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.174	40.06	-24.71	64.77	29.60	0.05	10.41	QP
2	0.174	21.76	-33.01	54.77	11.30	0.05	10.41	Average
3	0.437	35.39	-21.72	57.11	25.19	-0.06	10.26	QP
4 *	0.437	26.09	-21.02	47.11	15.89	-0.06	10.26	Average
5	0.486	34.36	-21.87	56.23	24.20	-0.07	10.23	QP
6	0.486	24.06	-22.17	46.23	13.90	-0.07	10.23	Average
7	0.651	32.29	-23.71	56.00	22.20	-0.07	10.16	QP
8	0.651	20.29	-25.71	46.00	10.20	-0.07	10.16	Average
9	7.566	32.42	-27.58	60.00	22.20	-0.12	10.34	QP
10	7.566	24.52	-25.48	50.00	14.30	-0.12	10.34	Average
11	8.323	33.50	-26.50	60.00	23.20	-0.15	10.45	QP
12	8.323	26.50	-23.50	50.00	16.20	-0.15	10.45	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

3.2 UWB bandwidth

3.2.1 UWB bandwidth Limit

UWB bandwidth Limit	
<input checked="" type="checkbox"/>	UWB bandwidth ≥ 500 MHz or Fractional bandwidth ≥ 0.2 ; Fractional bandwidth $= 2(f_H - f_L) / (f_H + f_L)$

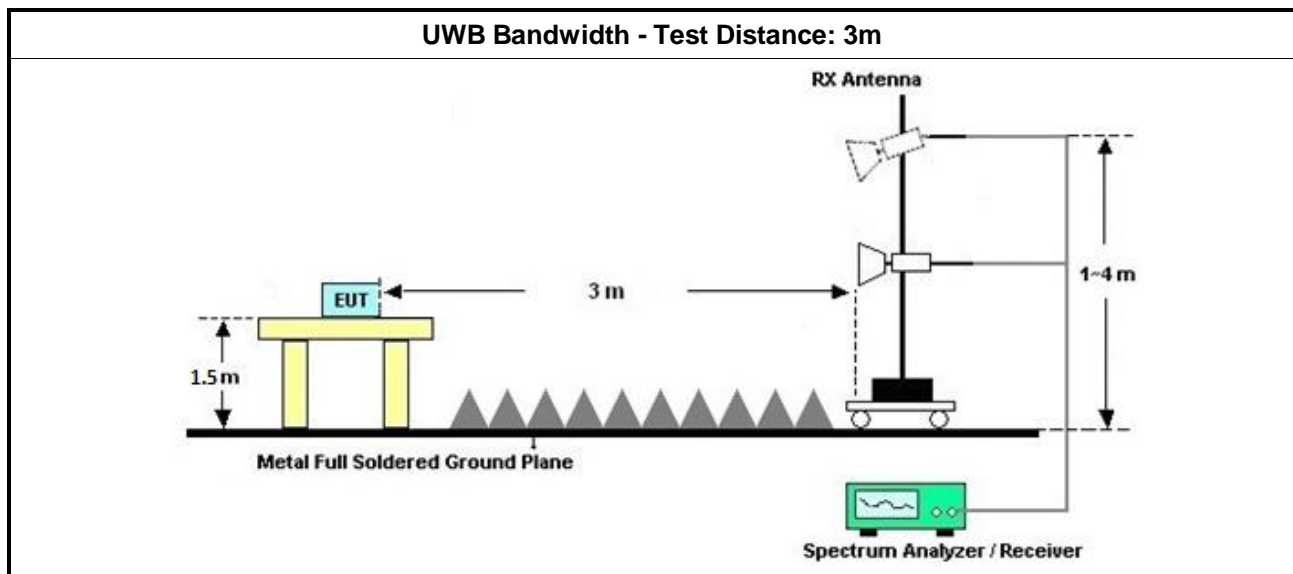
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	For the UWB bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.2 and clause 10.1 for UWB bandwidth testing.

3.2.4 Test Setup



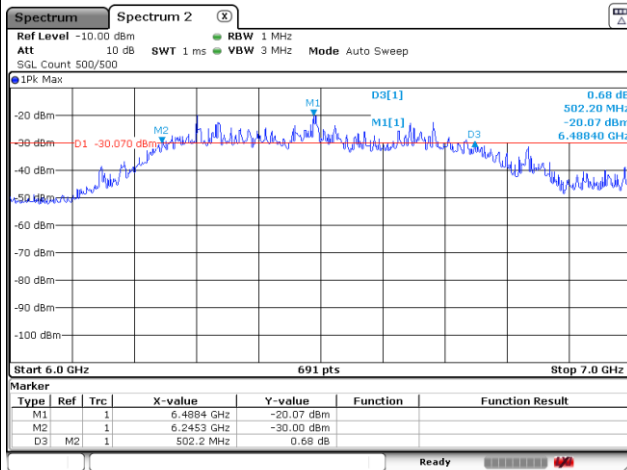
**3.2.5 Test Result of UWB Bandwidth**

Mode	Channel	Preamble_cidx	Rx_sts_mode	Prf_mode	Sfd_id	Number_OF_STS_Segments	Packet_length	Bandwidth (MHz)	Limit(MHz)	Result	PoI(H/V)
Mode 1	5	10	SP 0	62.4MHz	2	0	4	502.2	≥500	Pass	V
Mode 2	5	10	SP 0	62.4MHz	2	0	127	502.2	≥500	Pass	V
Mode 3	5	10	SP 1	62.4MHz	2	1	4	544.1	≥500	Pass	V
Mode 4	5	10	SP 1	62.4MHz	2	1	127	502.2	≥500	Pass	V
Mode 5	5	10	SP 3	62.4MHz	2	1	0	571.6	≥500	Pass	V
Mode 6	5	27	SP 0	124.8 MHz	2	0	4095	565.8	≥500	Pass	V
Mode 7	5	27	SP 1	124.8 MHz	2	1	4095	589	≥500	Pass	V
Mode 8	5	27	SP 3	124.8 MHz	2	1	0	587.6	≥500	Pass	V
Mode 9	9	10	SP 0	62.4MHz	2	0	4	565.4	≥500	Pass	V
Mode 10	9	10	SP 0	62.4MHz	2	0	127	568.4	≥500	Pass	V
Mode 11	9	10	SP 1	62.4MHz	2	1	4	567.3	≥500	Pass	V
Mode 12	9	10	SP 1	62.4MHz	2	1	127	516.6	≥500	Pass	V
Mode 13	9	10	SP 3	62.4MHz	2	1	0	555.7	≥500	Pass	V
Mode 14	9	27	SP 0	124.8 MHz	2	0	4095	526.8	≥500	Pass	V
Mode 15	9	27	SP 1	124.8 MHz	2	1	4095	532.6	≥500	Pass	V
Mode 16	9	27	SP 3	124.8 MHz	2	1	0	542.7	≥500	Pass	V



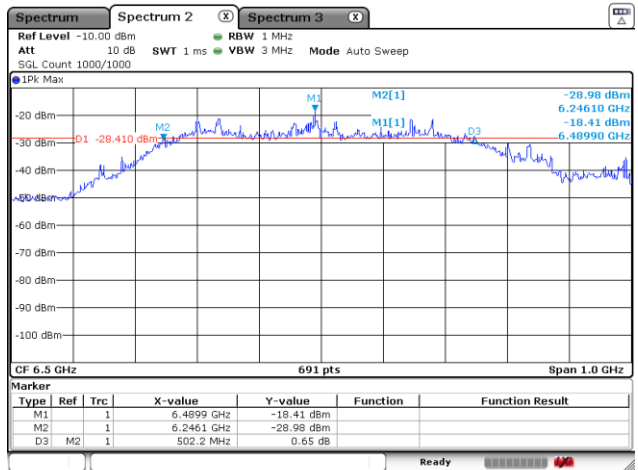
CH05 Bandwidth Plots

Mode 1: cidx-10_sts-0_packet length-4



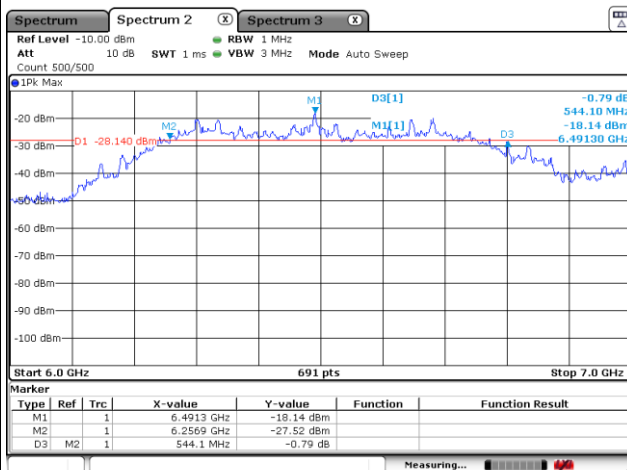
Date: 26.APR.2024 13:21:18

Mode 2: cidx-10_sts-0_packet length-127



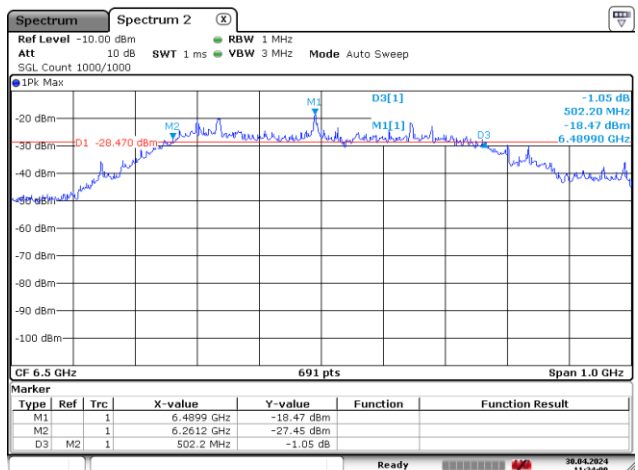
Date: 26.APR.2024 15:09:13

Mode 3: cidx-10_sts-1_packet length-4



Date: 26.APR.2024 15:56:41

Mode 4: cidx-10_sts-1_packet length-127

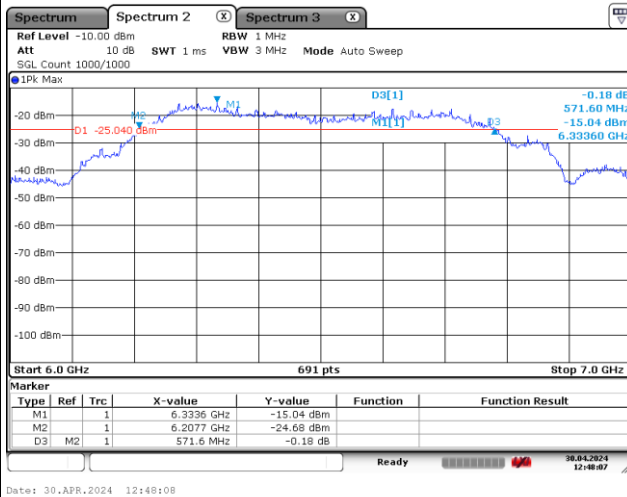


Date: 30.APR.2024 11:24:09

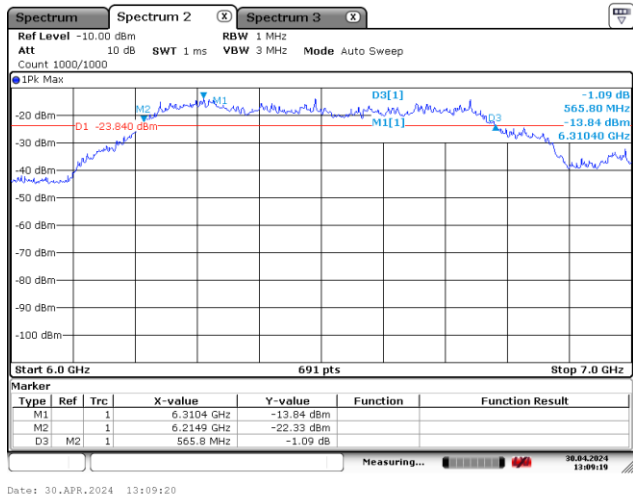


CH05 Bandwidth Plots

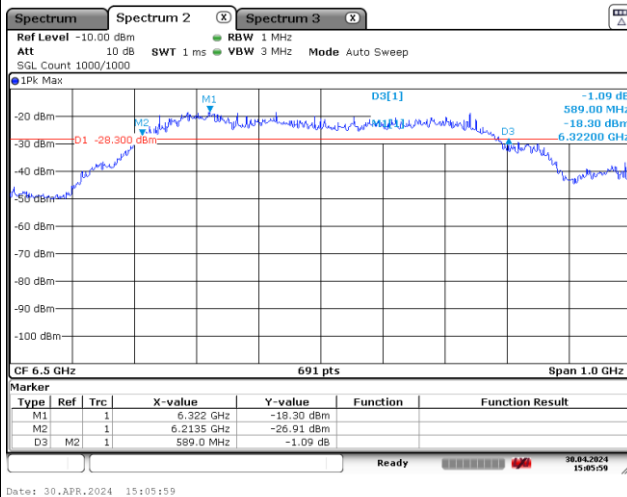
Mode 5: cidx-10_sts-1_packet length-0



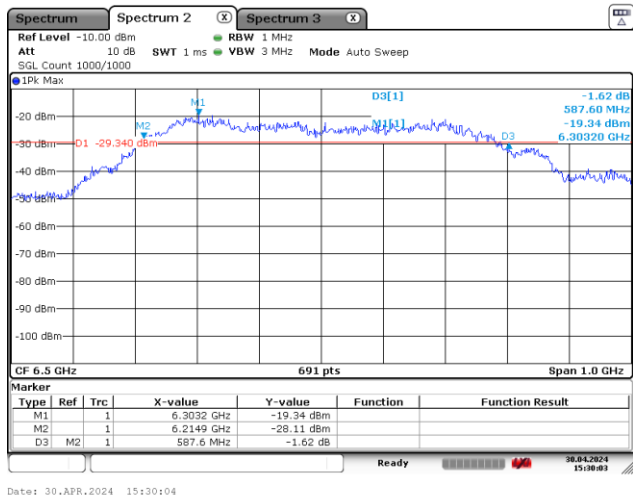
Mode 6: cidx-27_sts-0_packet length-4095



Mode 7: cidx-27_sts-1_packet length-4095



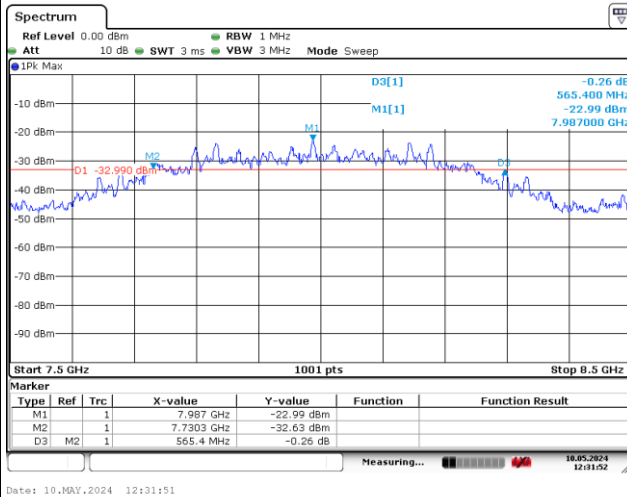
Mode 8: cidx-27_sts-1_packet length-0



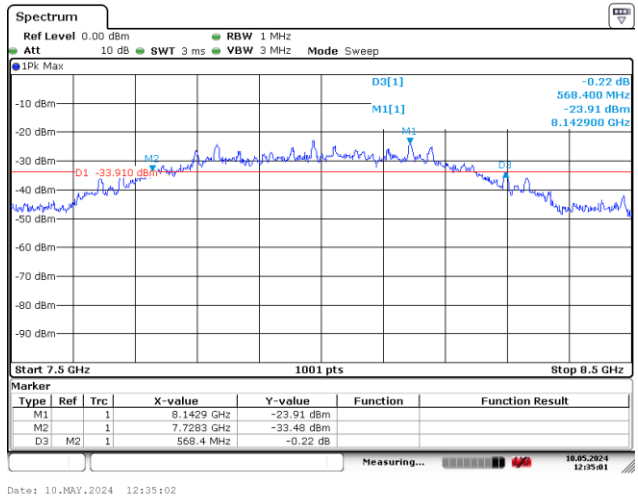


CH09 Bandwidth Plots

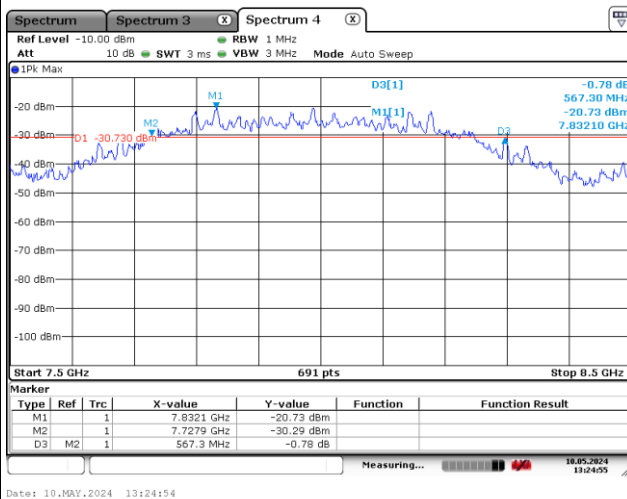
Mode 9: cidx-10_sts-0_packet length-4



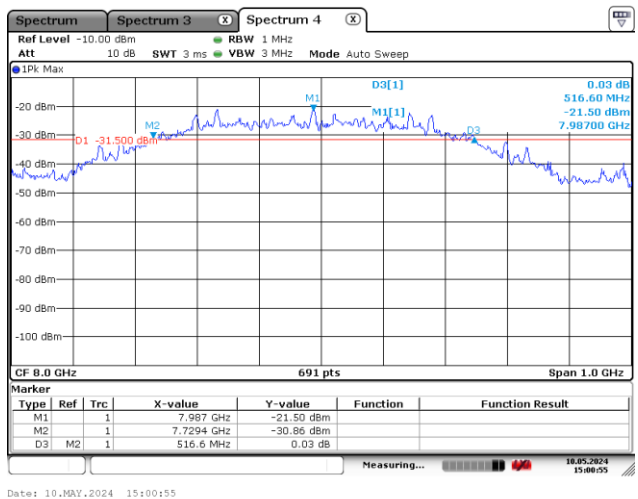
Mode 10: cidx-10_sts-0_packet length-127



Mode 11: cidx-10_sts-1_packet length-4



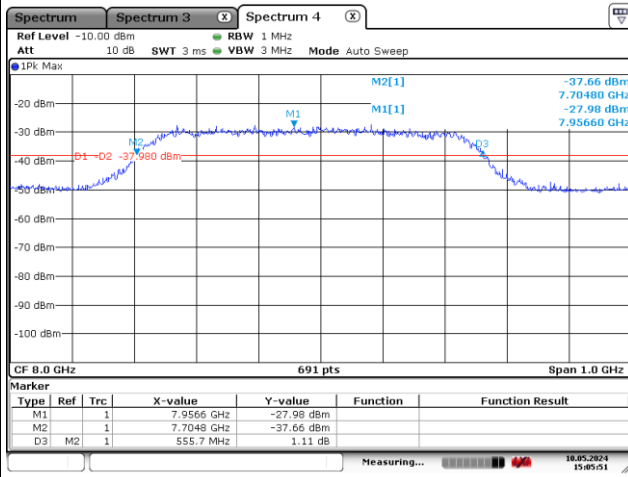
Mode 12: cidx-10_sts-1_packet length-127





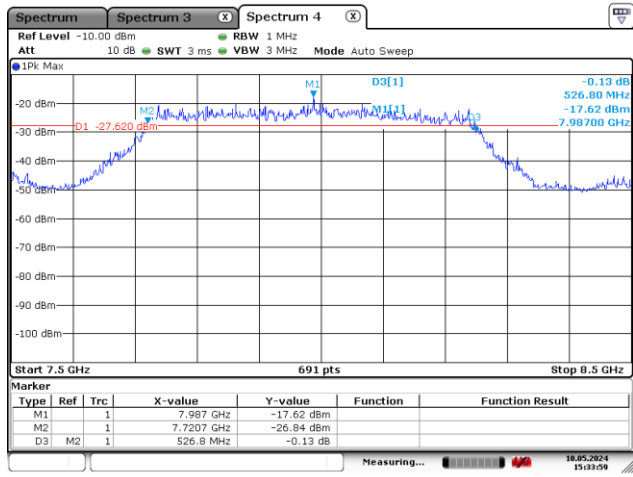
CH09 Bandwidth Plots

Mode 13: cidx-10_sts-1_packet length-0



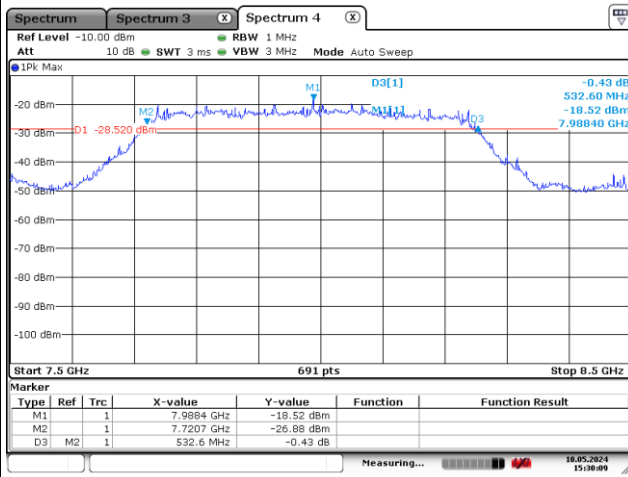
Date: 10.MAY.2024 15:05:50

Mode 14: cidx-27_sts-0_packet length-4095



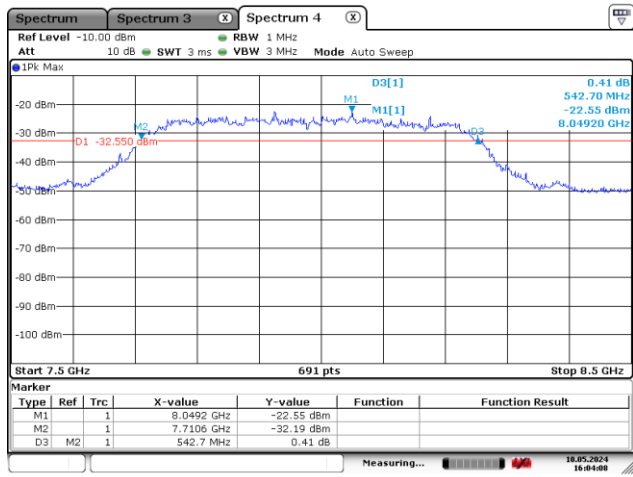
Date: 10.MAY.2024 15:03:59

Mode 15: cidx-27_sts-1_packet length-4095



Date: 10.MAY.2024 15:06:09

Mode 16: cidx-27_sts-1_packet length-0



Date: 10.MAY.2024 16:04:08

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

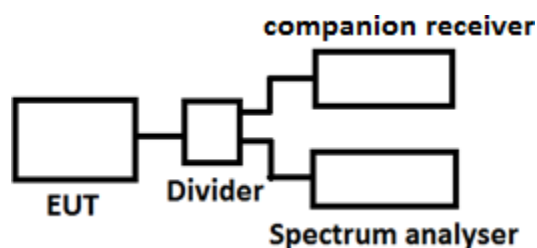
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedure

Follow the test step as below:

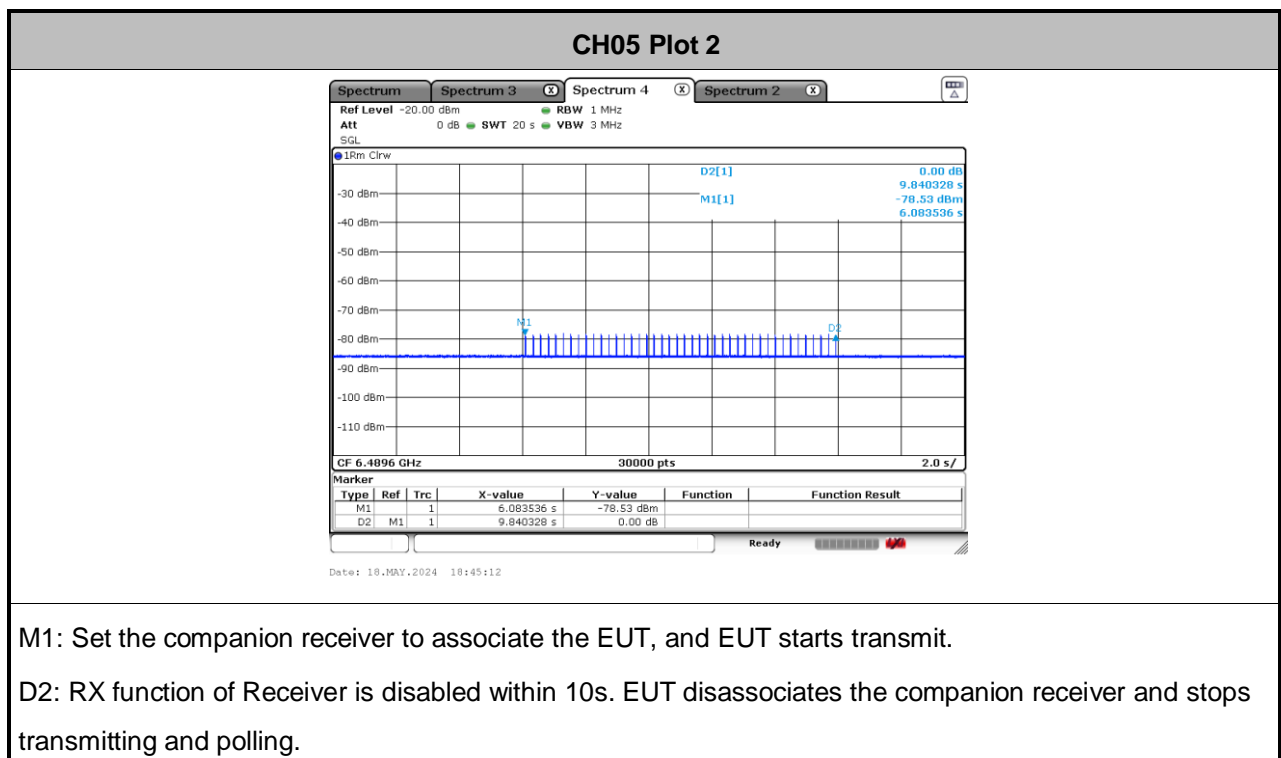
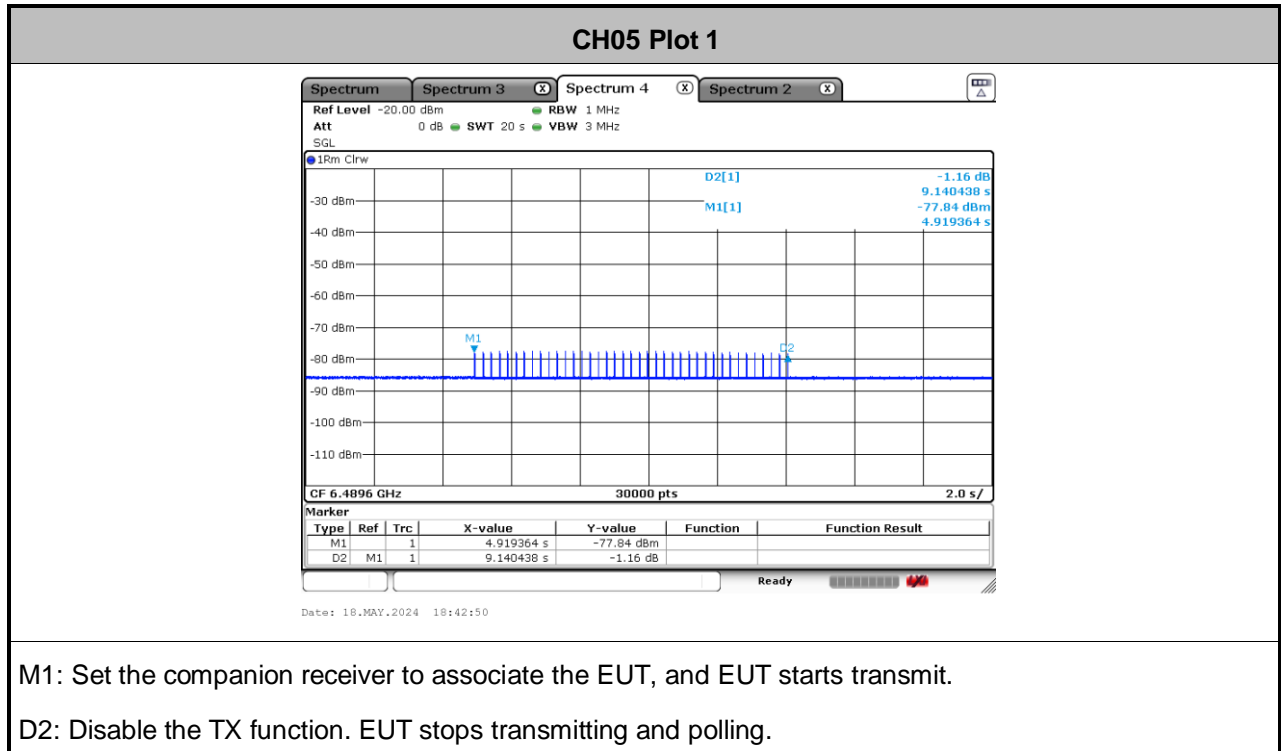
1. Turn on both EUT and companion receiver.
2. Set the EUT to TX mode, and EUT starts polling.
3. Set the companion receiver to associate EUT and EUT starts to transmit.
4. Disable the TX function of EUT.
5. Check if EUT stop transmitting once step 4 is made. (see plot 1 in clause 3.3.5)
6. Turn off both EUT and companion receiver.
7. Repeat step 1 to step 3.
8. Disable the RX function of the companion receiver to disassociate the EUT.
9. Check if EUT stop transmitting once step 8 is made. (see plot 2 in clause 3.3.5)

3.3.4 Test Setup

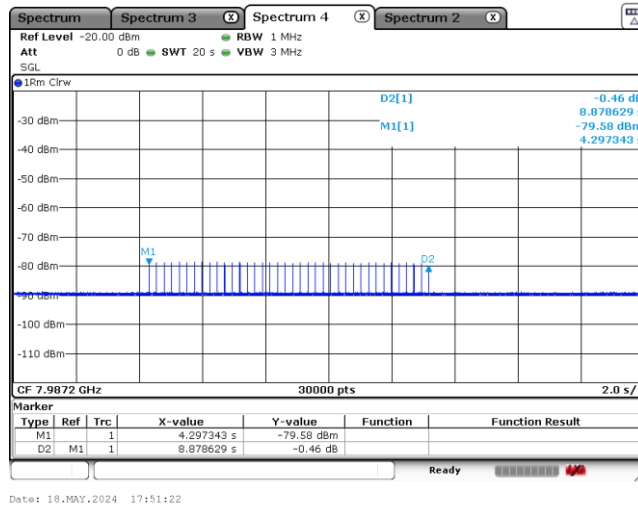




3.3.5 Test Result



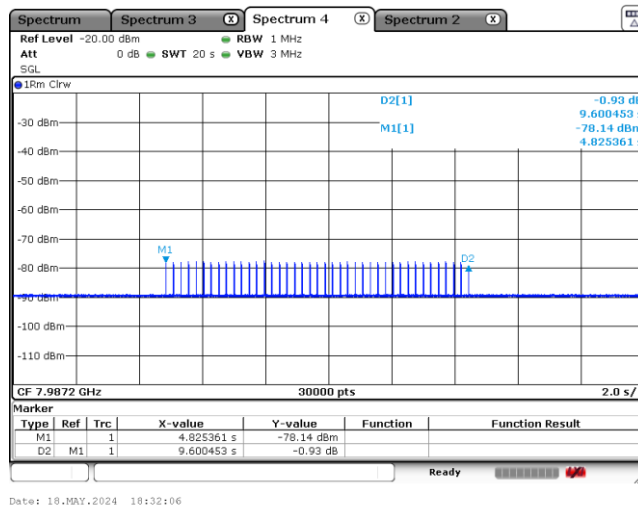
CH09 Plot1



M1: Set the companion receiver to associate the EUT, and EUT starts transmit.

D2: Disable the TX function. EUT stops transmitting and polling.

CH09 Plot2



M1: Set the companion receiver to associate the EUT, and EUT starts transmit.

D2: RX function of Receiver is disabled within 10s. EUT disassociates the companion receiver and stops transmitting and polling.

3.4 Peak Power Measurement

3.4.1 Peak Power Measurement Limit

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

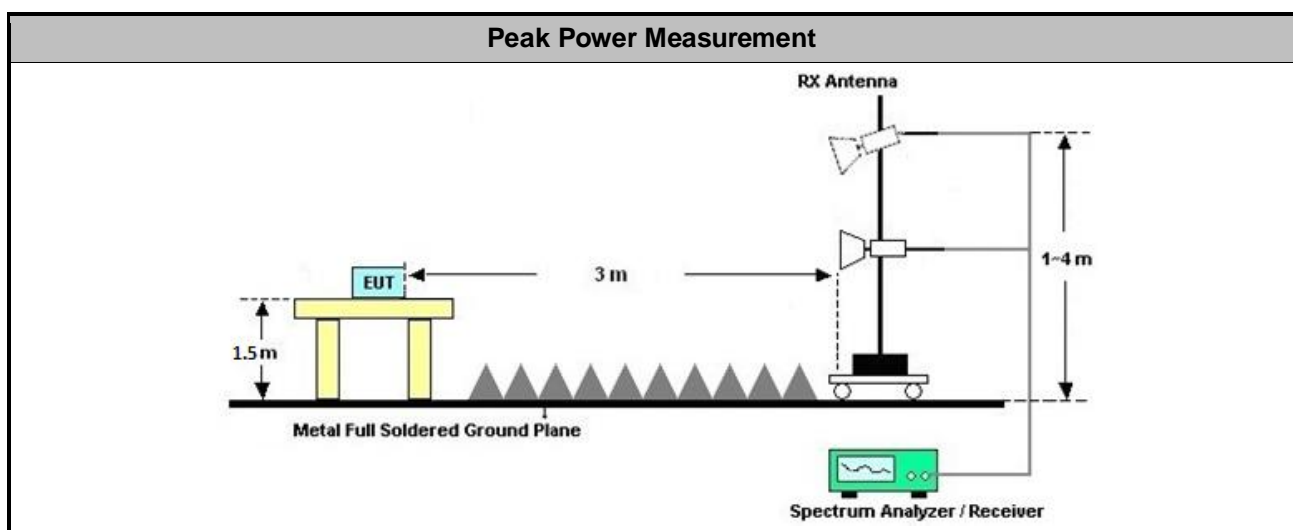
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Peak Power Measurement
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.5 for peak detector procedure testing
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.6 for bandwidth conversion of peak power
<input checked="" type="checkbox"/>	<p>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:</p> <ul style="list-style-type: none"> Central frequency: Worst frequency point Span: Zero span RBW: 40MHz VBW: 40MHz Detector: Peak detector Trace: Max hold

3.4.4 Test Setup



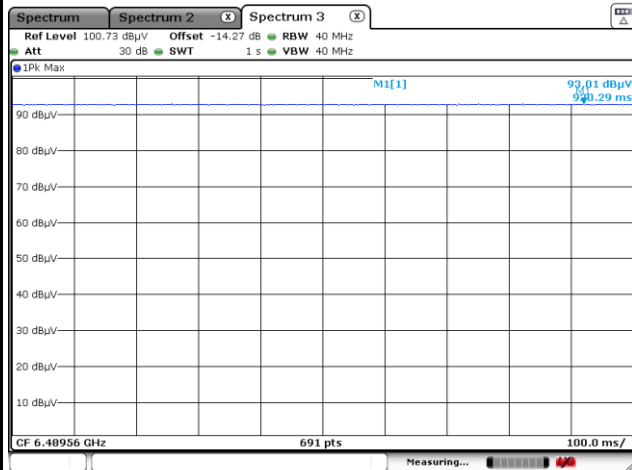
3.4.5 Test Result of Peak Power Measurement

Peak Measurement Result								
Mode	Freq. (MHz)	E-Field (dBuV/m)	EIRP _{40MHz} (dBm)	EIRP _{50MHz} Limit(dBm)	EIRP _{40MHz} Limit (dBm)	Margin [dB]	Result	Pol [H/V]
1	6489.56	93.01	-2.19	0	-1.94	-0.25	Pass	V
2	6489.56	91.28	-3.92	0	-1.94	-1.98	Pass	V
3	6489.56	92.95	-2.25	0	-1.94	-0.31	Pass	V
4	6489.9	92.51	-2.69	0	-1.94	-0.75	Pass	V
5	6303.1	87.4	-7.8	0	-1.94	-5.86	Pass	V
6	6317.97	87.95	-7.25	0	-1.94	-5.31	Pass	V
7	6302.35	87.25	-7.95	0	-1.94	-6.01	Pass	V
8	6302.35	87.6	-7.6	0	-1.94	-5.66	Pass	V
9	7986.98	92.49	-2.71	0	-1.94	-0.77	Pass	V
10	7986.11	92.5	-2.7	0	-1.94	-0.76	Pass	V
11	7986.98	92.71	-2.49	0	-1.94	-0.55	Pass	V
12	7986.11	89.81	-5.39	0	-1.94	-3.45	Pass	V
13	8018.23	83.38	-11.82	0	-1.94	-9.88	Pass	V
14	7986.98	91.26	-3.94	0	-1.94	-2	Pass	V
15	7987	88.52	-6.68	0	-1.94	-4.74	Pass	V
16	8049.49	84.45	-10.75	0	-1.94	-8.81	Pass	V
Note 1: EIRP [dBm] = E-Field [dBuV/m] - 95.2; Note 2: Bandwidth Correction Factor (BWCF) = 20 log (40MHz/50MHz). Note 3: EIRP _{40MHz} Limit = EIRP _{50MHz} Limit + BWCF, FCC Part 15.521(g). Note 4: Measurement worst emissions of receive antenna polarization.								

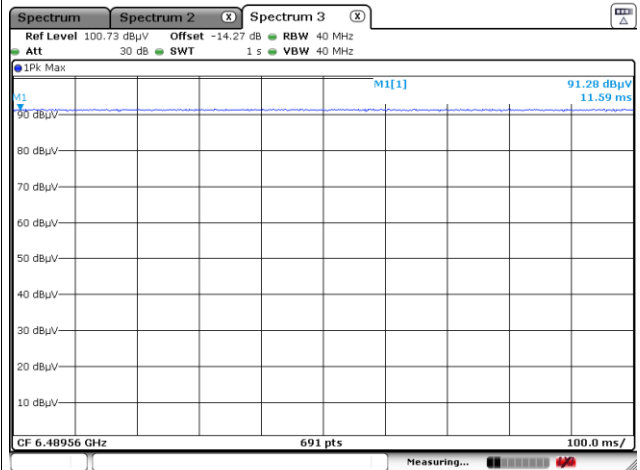


CH05 Peak Power Measurement Plots

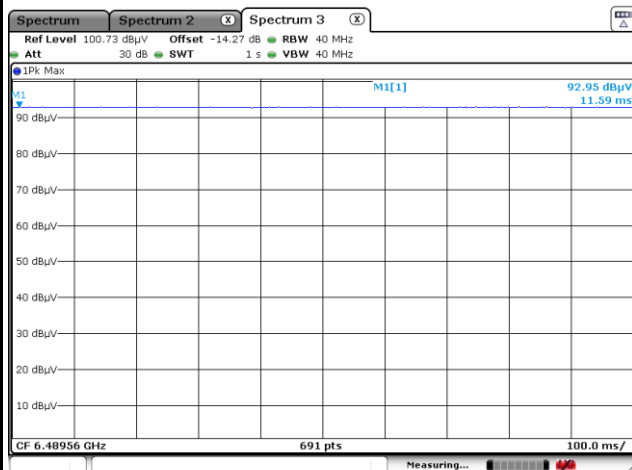
Mode 1: cidx-10_sts-0_packet length-4



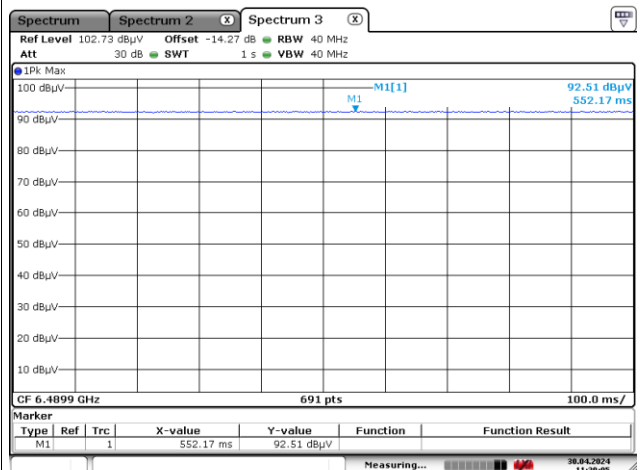
Mode 2: cidx-10_sts-0_packet length-127



Mode 3: cidx-10_sts-1_packet length-4



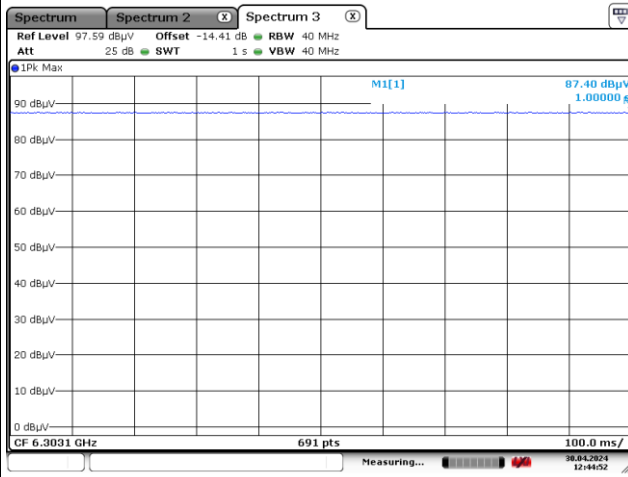
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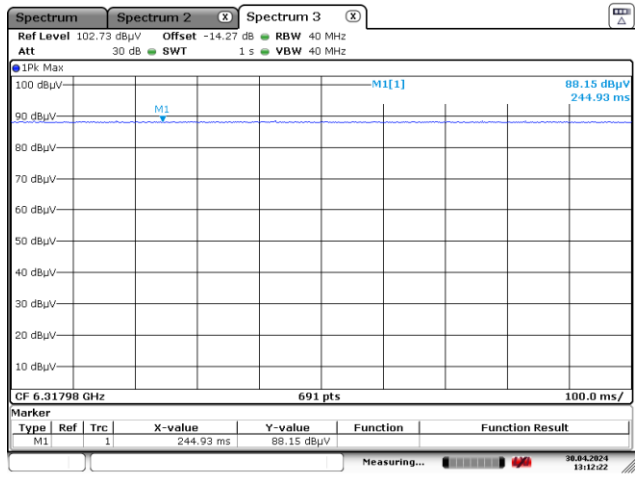


CH05 Peak Power Measurement Plots

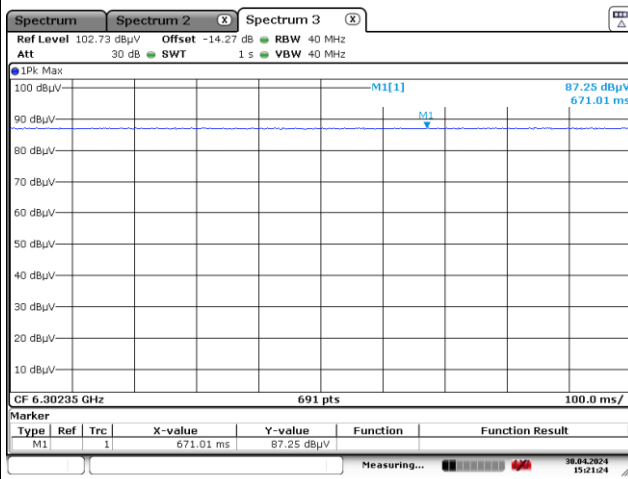
Mode 5: cidx-10_sts-1_packet length-0



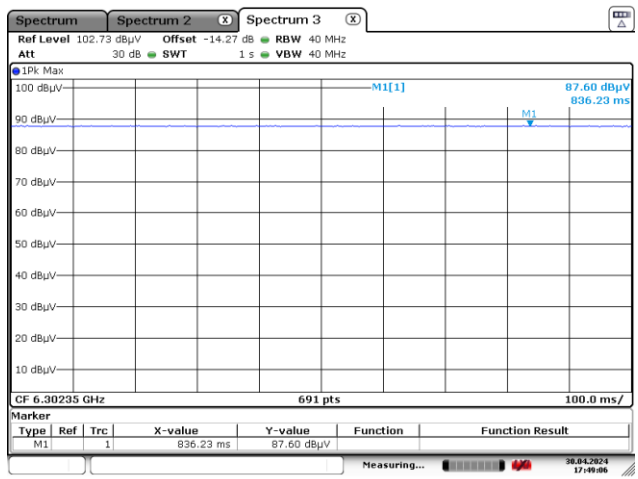
Mode 6: cidx-27_sts-0_packet length-4095



Mode 7: cidx-27_sts-1_packet length-4095



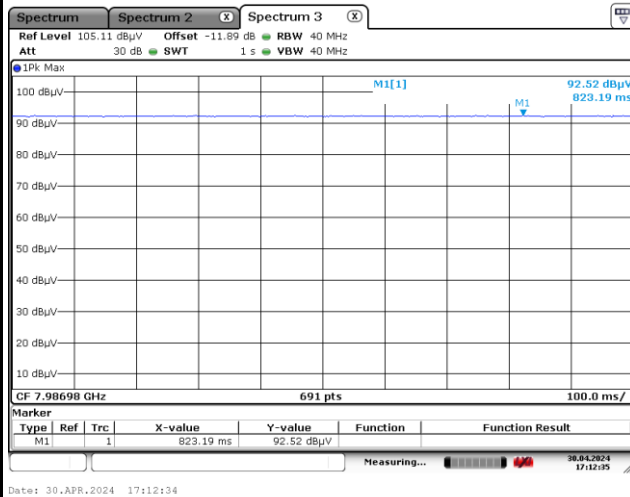
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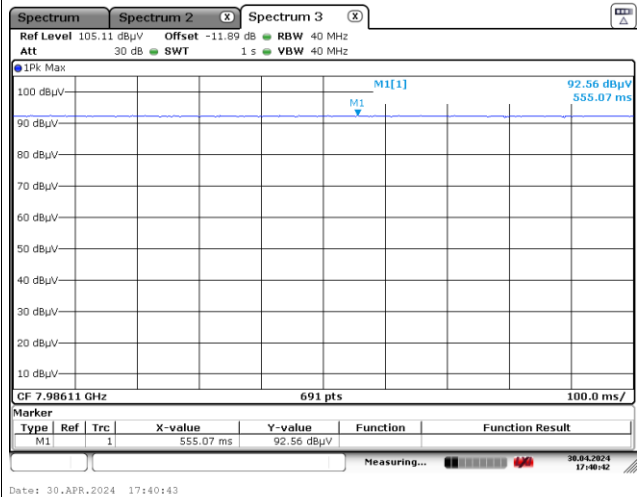


CH09 Peak Power Measurement Plots

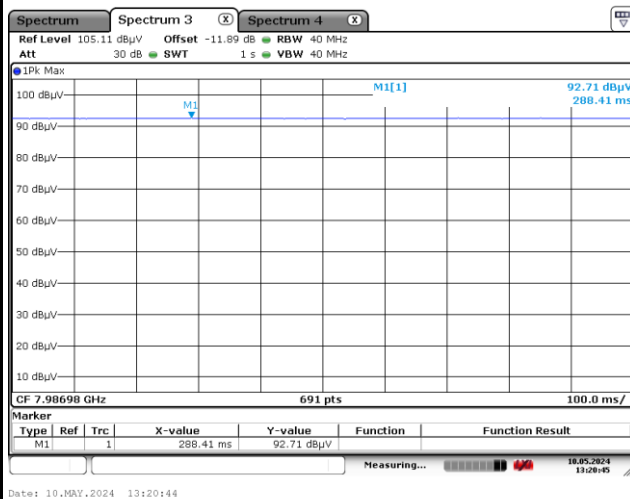
Mode 9: cidx-10_sts-0_packet length-4



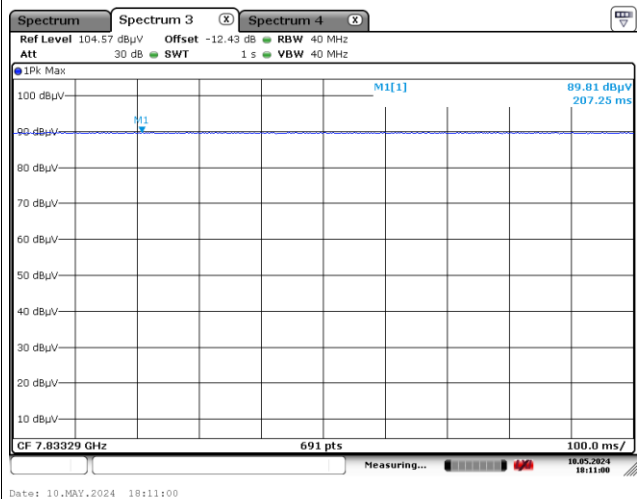
Mode 10: cidx-10_sts-0_packet length-127



Mode 11: cidx-10_sts-1_packet length-4



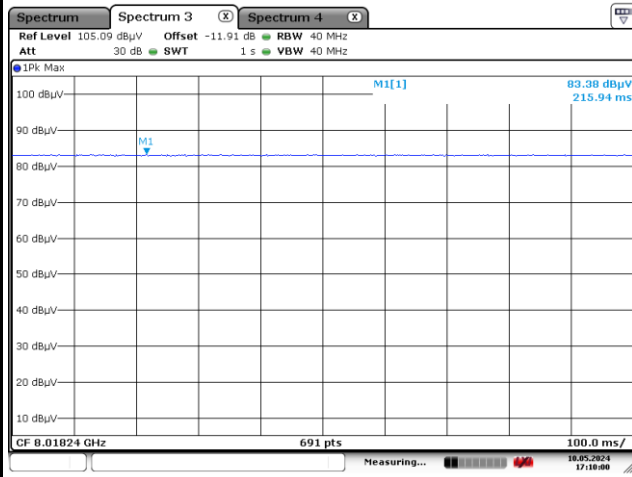
Mode 12: cidx-10_sts-1_packet length-127



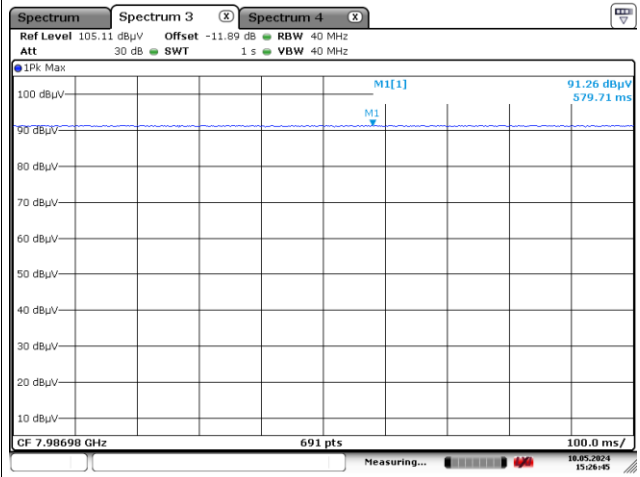


CH09 Peak Power Measurement Plots

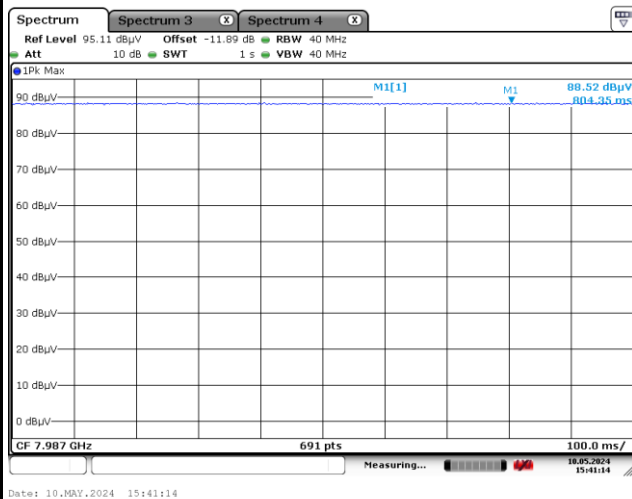
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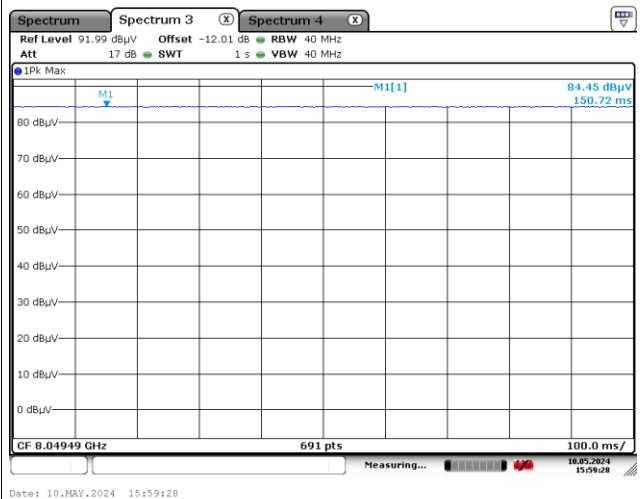
Mode 14: cidx-27_sts-0_packet length-4095



Mode 15: cidx-27_sts-1_packet length-4095



Mode 16: cidx-27_sts-1_packet length-0



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)	EIRP (dBuV/m @3m)
960-1610	-75.3	19.93
1610-1990	-63.3	31.93
1990-3100	-61.3	33.93
3100-10600	-41.3	53.93
Above 10600	-61.3	33.93

Radiated Emissions in GPS Bands Limit		
Frequency Range (MHz)	EIRP (dBm)	EIRP (dBuV/m @3m)
1164-1240	-85.3	9.93
1559-1610	-85.3	9.93

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



3.5.2 Measuring Instruments

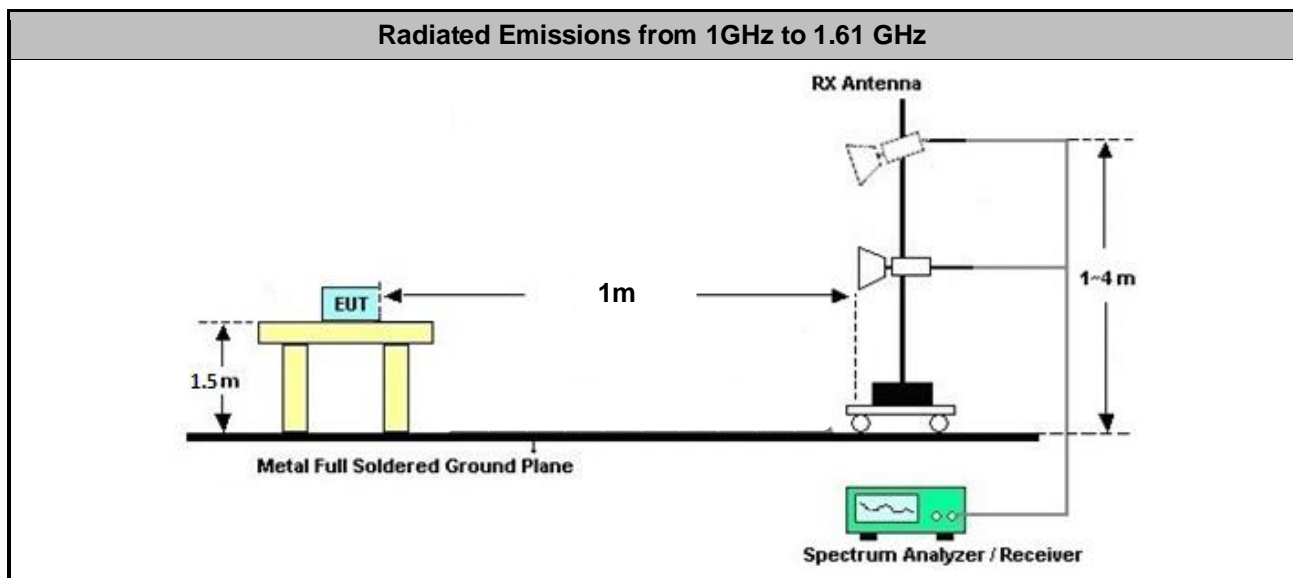
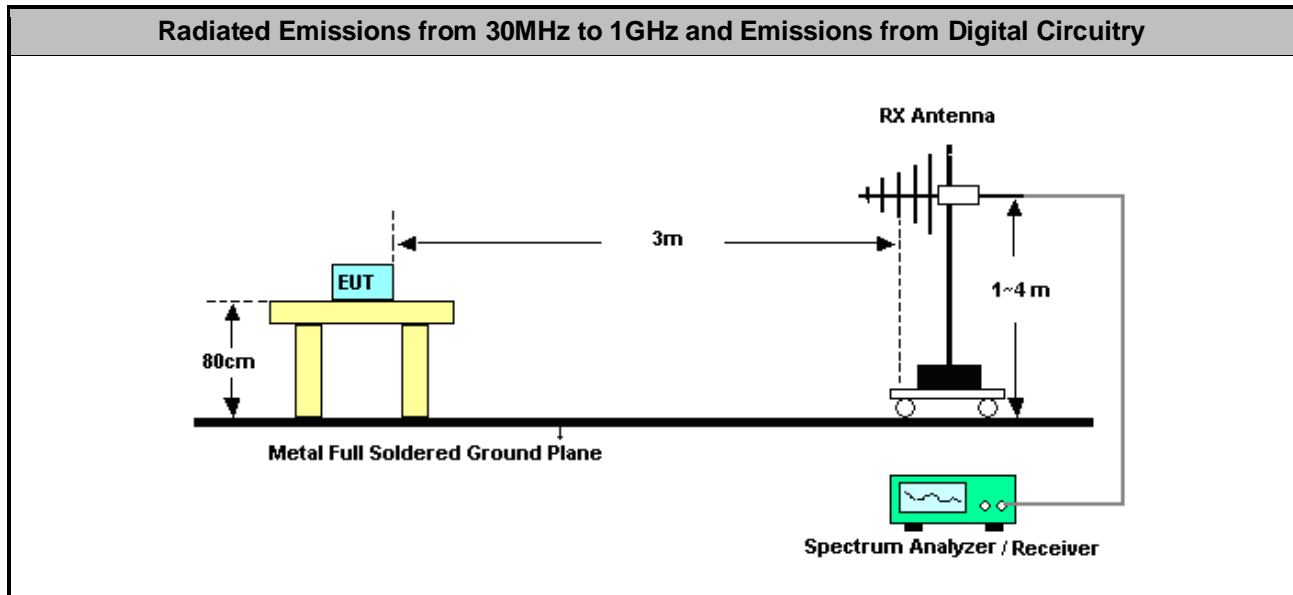
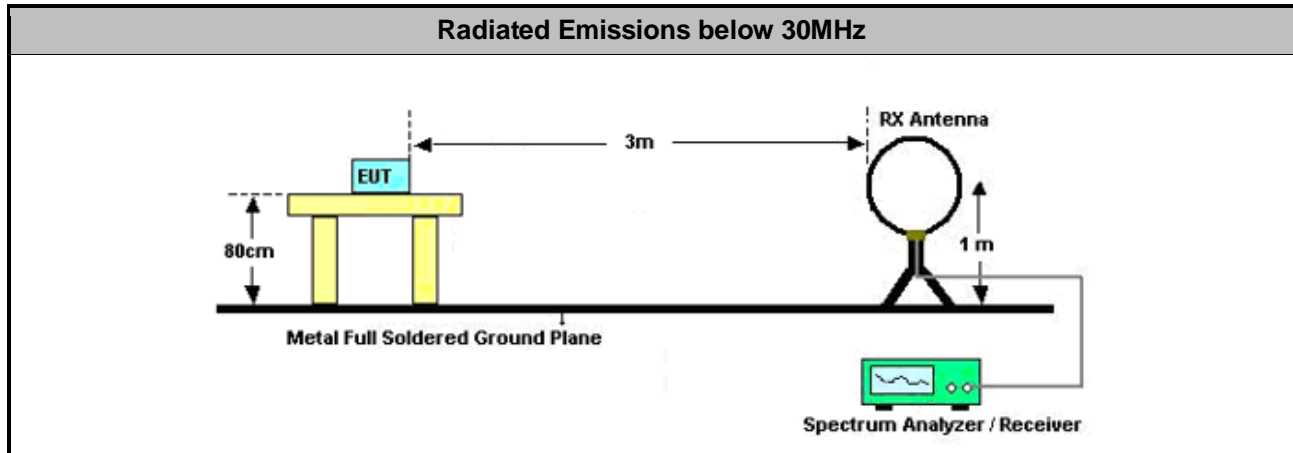
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

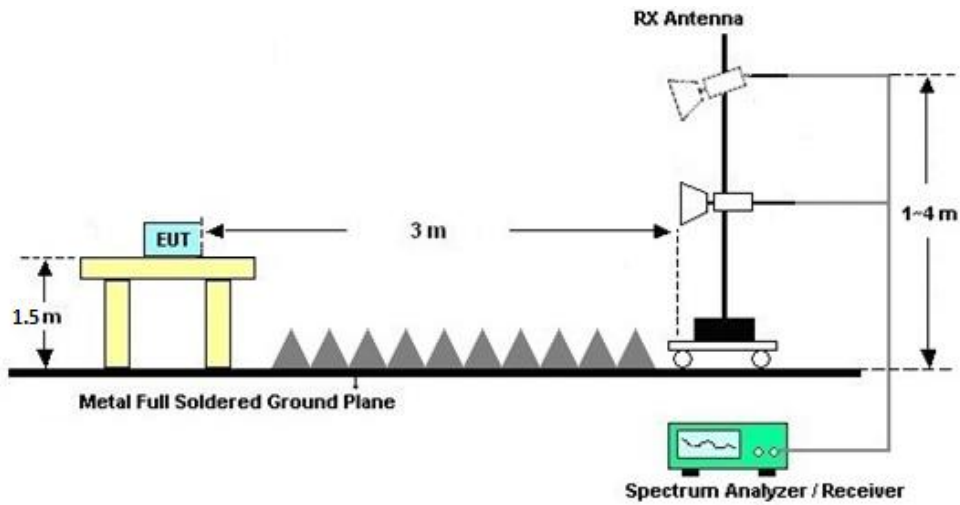
Test Method for Radiated Emissions above 960MHz	
<input checked="" type="checkbox"/>	Radiated Emissions above 960MHz
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.2 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)
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.4 for rms detector procedure testing.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.7 for evaluating AVG-PSD (RBW=1MHz).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.10 for evaluating AVG-PSD in GPS Band (RBW≥1kHz).
<input checked="" type="checkbox"/>	For radiated measurement.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 10.3.8 following eirp can be used radiated test configuration.
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.1.4 Detector functions and selection of bandwidth
<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).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<input checked="" type="checkbox"/>	For radiated measurement.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 0.5m or 1m or 3m.
<input checked="" type="checkbox"/>	If the noise floor can't meet the limit, the test distance will be shorten and described in the report.
<input checked="" type="checkbox"/>	Any unwanted emissions level shall not exceed the fundamental emission level.

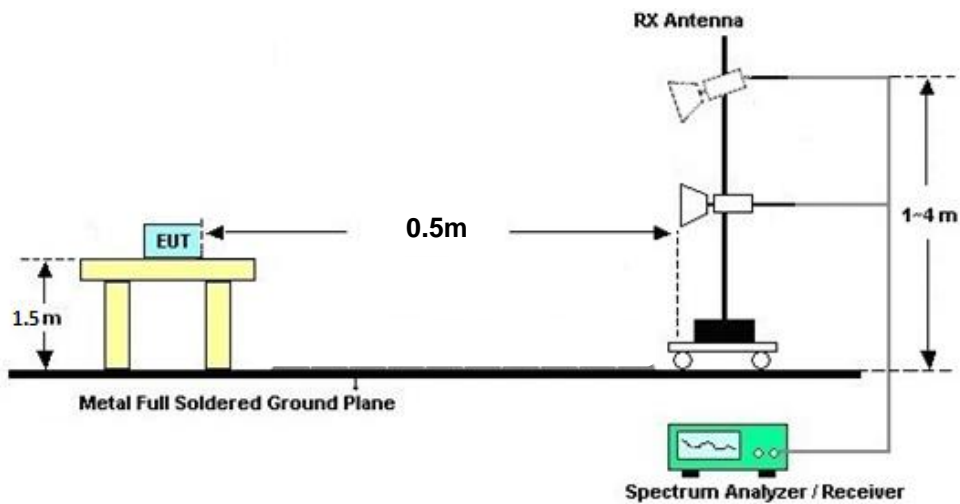
3.5.4 Test Setup

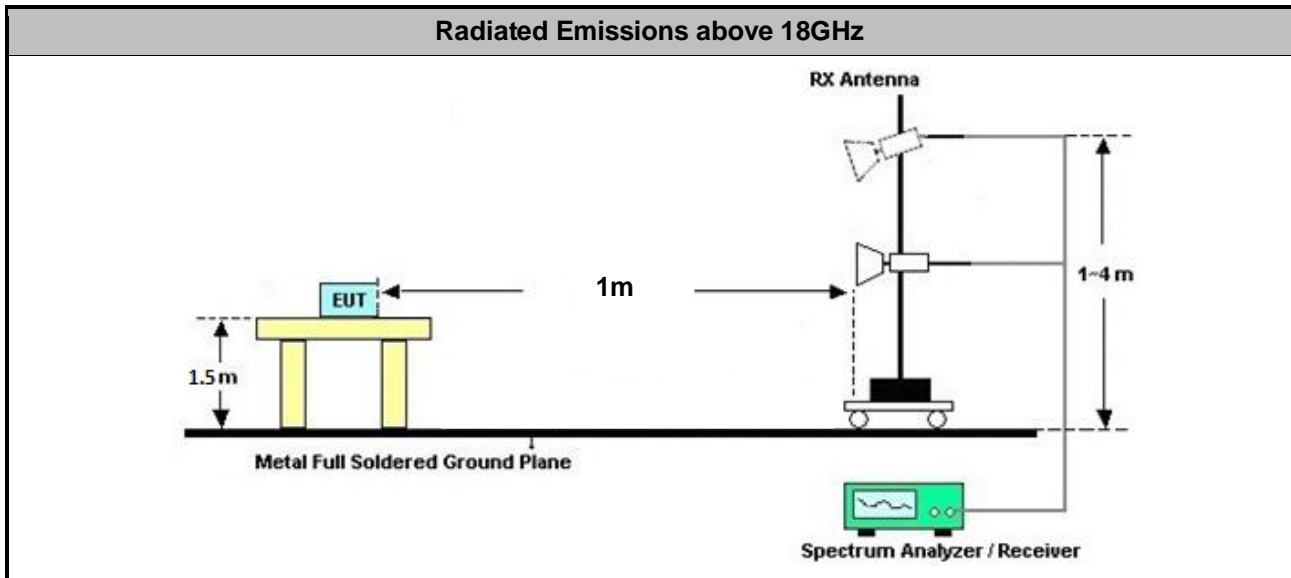


Radiated Emissions from 1.61 GHz to 10.60 GHz



Radiated Emissions from 10.60 GHz to 18GHz





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

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

3.5.5 Radiated Emissions (Below 30MHz)

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

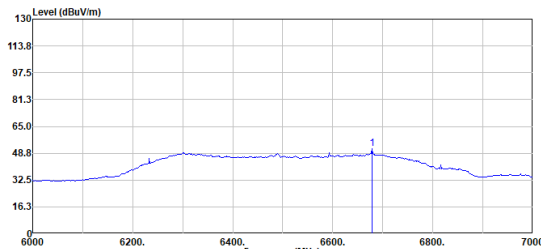
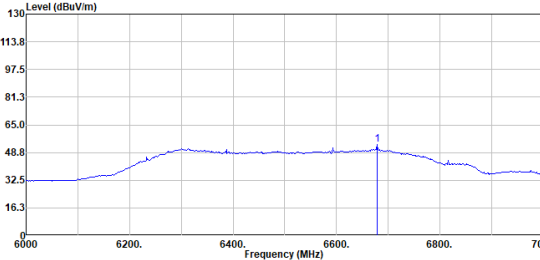
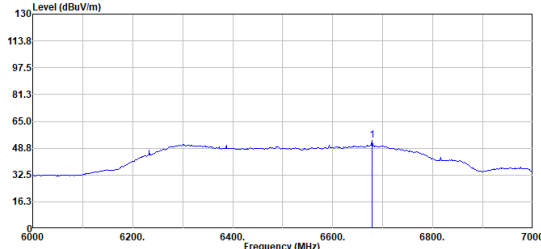
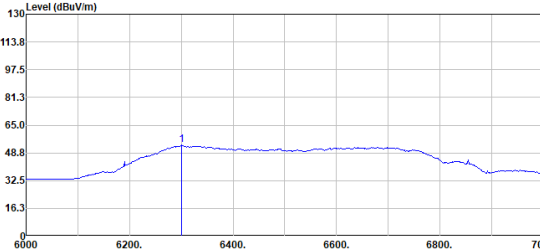
There is adequate comparison measurement of both open-field test site and alternative test site -semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

**3.5.6 Radiated Emissions (Fundamental)**

Test mode	Frequency (MHz)	Emission Level (dBuV/m)	Emission Limit (dBm/MHz)	Emission Limit (dBuV/m)	Margin (dB)	Result	Pol (H/V)
1	6678.26	51.42	-41.3	53.9	-2.51	Pass	V
2	6678.26	53.49	-41.3	53.9	-0.44	Pass	V
3	6678.26	53.43	-41.3	53.9	-0.5	Pass	V
4	6300	53.25	-41.3	53.9	-0.68	Pass	V
5	6294.2	52.48	-41.3	53.9	-1.45	Pass	V
6	6294.2	52.97	-41.3	53.9	-0.96	Pass	V
7	6288.41	53.75	-41.3	53.9	-0.18	Pass	V
8	6298.55	53.72	-41.3	53.9	-0.21	Pass	V
9	8144.93	48.73	-41.3	53.9	-5.2	Pass	V
10	7789.86	51.75	-41.3	53.9	-2.18	Pass	V
11	8144.93	51.23	-41.3	53.9	-2.7	Pass	V
12	7789.86	53.36	-41.3	53.9	-0.57	Pass	V
13	7789.86	52.96	-41.3	53.9	-0.97	Pass	V
14	7789.86	53.01	-41.3	53.9	-0.92	Pass	V
15	7789.86	52.99	-41.3	53.9	-0.94	Pass	V
16	7789.86	53.1	-41.3	53.9	-0.83	Pass	V

Note: E (dBuV/m) Limit= EIRP (dBm) Lmit + 95.2 = -41.3 + 95.2 = 53.9 dBuV/m.



CH05 Radiated Emissions (Fundamental)																																																																																										
Operating Function	Adapter Mode				Polarization		V																																																																																			
					Test Distance		3m																																																																																			
Mode 1: cidx-10_sts-0_packet length-4					Mode 2: cidx-10_sts-0_packet length-127																																																																																					
 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6678.26</td><td>51.42</td><td>-----</td><td>-----</td><td>65.42</td><td>35.86</td><td>11.17</td><td>61.03</td><td>0.00</td><td>232</td><td>30</td><td>Average</td><td>Vertical</td></tr></table>					Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1 6678.26	51.42	-----	-----	65.42	35.86	11.17	61.03	0.00	232	30	Average	Vertical	 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6678.26</td><td>53.49</td><td>-----</td><td>-----</td><td>67.49</td><td>35.86</td><td>11.17</td><td>61.03</td><td>0.00</td><td>232</td><td>30</td><td>Average</td><td>Vertical</td></tr></table>								Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1 6678.26	53.49	-----	-----	67.49	35.86	11.17	61.03	0.00	232	30	Average	Vertical
Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																														
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1 6678.26	51.42	-----	-----	65.42	35.86	11.17	61.03	0.00	232	30	Average	Vertical																																																																														
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1 6678.26	53.49	-----	-----	67.49	35.86	11.17	61.03	0.00	232	30	Average	Vertical																																																																														
Mode 3: cidx-10_sts-1_packet length-4					Mode 4: cidx-10_sts-1_packet length-127																																																																																					
 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6678.26</td><td>53.43</td><td>-----</td><td>-----</td><td>67.43</td><td>35.86</td><td>11.17</td><td>61.03</td><td>0.00</td><td>232</td><td>30</td><td>Average</td><td>Vertical</td></tr></table>					Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1 6678.26	53.43	-----	-----	67.43	35.86	11.17	61.03	0.00	232	30	Average	Vertical	 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6300.00</td><td>53.25</td><td>-----</td><td>-----</td><td>67.65</td><td>35.60</td><td>10.86</td><td>60.86</td><td>0.00</td><td>160</td><td>210</td><td>Average</td><td>Vertical</td></tr></table>								Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1 6300.00	53.25	-----	-----	67.65	35.60	10.86	60.86	0.00	160	210	Average	Vertical
Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																														
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																
1 6678.26	53.43	-----	-----	67.43	35.86	11.17	61.03	0.00	232	30	Average	Vertical																																																																														
Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																														
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																
1 6300.00	53.25	-----	-----	67.65	35.60	10.86	60.86	0.00	160	210	Average	Vertical																																																																														



CH05 Radiated Emissions (Fundamental)

Operating Function

Adapter Mode

Polarization

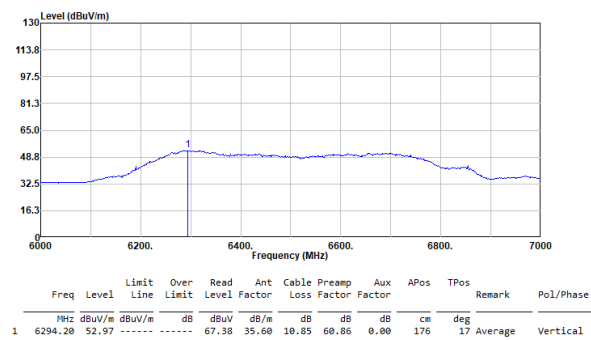
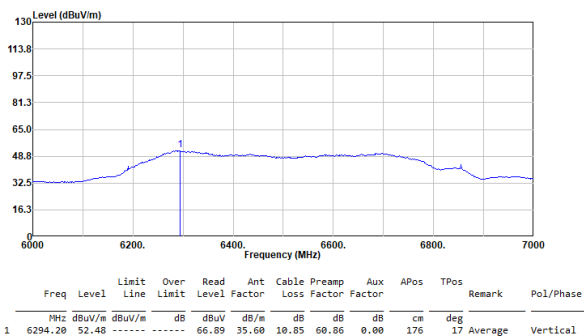
V

Test Distance

3m

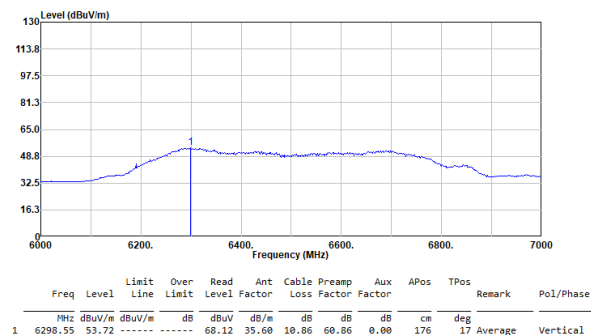
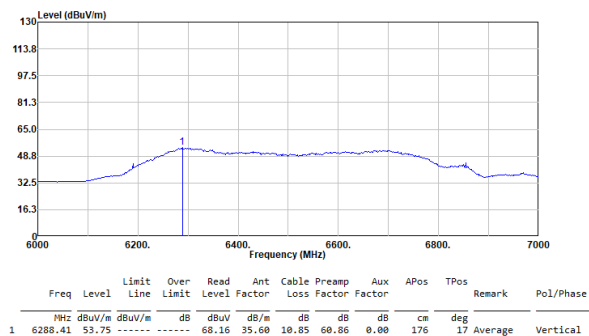
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Mode 6: cidx-27_sts-0_packet length-4095



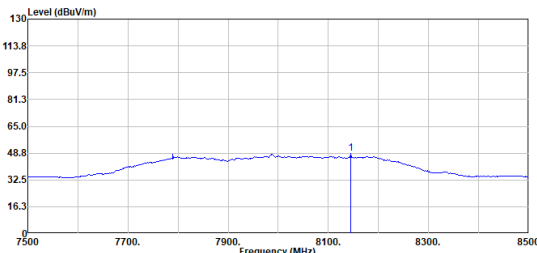
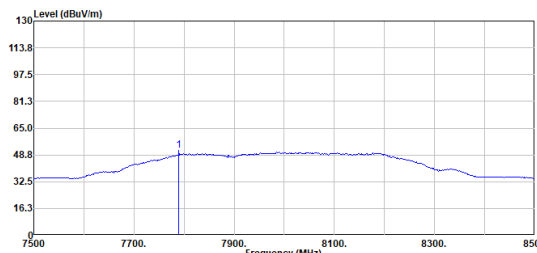
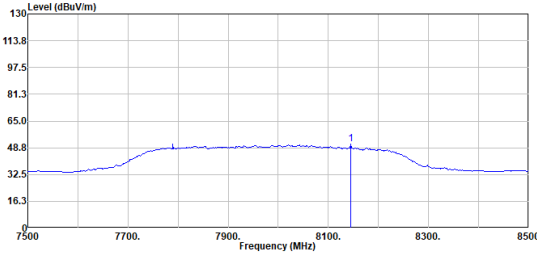
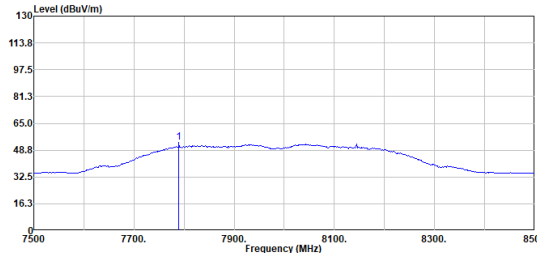
Mode 7: cidx-27_sts-1_packet length-4095

Mode 8: cidx-27_sts-1_packet length-0





CH09 Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	V																																																																																				
		Test Distance	3m																																																																																				
Mode 9: cidx-10_sts-0_packet length-4		Mode 10: cidx-10_sts-0_packet length-127																																																																																					
 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>8144.93</td><td>48.73</td><td>-----</td><td>-----</td><td>60.88</td><td>35.80</td><td>12.45</td><td>60.40</td><td>0.00</td><td>300</td><td>0</td><td>Average</td><td>Vertical</td></tr></tbody></table>			Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1	8144.93	48.73	-----	-----	60.88	35.80	12.45	60.40	0.00	300	0	Average	Vertical	 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>7789.86</td><td>51.75</td><td>-----</td><td>-----</td><td>64.19</td><td>36.00</td><td>12.14</td><td>60.58</td><td>0.00</td><td>300</td><td>0</td><td>Average</td><td>Vertical</td></tr></tbody></table>			Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1	7789.86	51.75	-----	-----	64.19	36.00	12.14	60.58	0.00	300	0	Average	Vertical
	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																										
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																												
1	8144.93	48.73	-----	-----	60.88	35.80	12.45	60.40	0.00	300	0	Average	Vertical																																																																										
	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																										
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																												
1	7789.86	51.75	-----	-----	64.19	36.00	12.14	60.58	0.00	300	0	Average	Vertical																																																																										
Mode 11: cidx-10_sts-1_packet length-4		Mode 12: cidx-10_sts-1_packet length-127																																																																																					
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	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																										
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																												
1	8144.93	51.23	-----	-----	63.38	35.80	12.45	60.40	0.00	115	355	Average	Vertical																																																																										
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1	7789.86	53.26	-----	-----	65.70	36.00	12.14	60.58	0.00	115	0	Average	Vertical																																																																										



CH09 Radiated Emissions (Fundamental)

Operating Function

Adapter Mode

Polarization

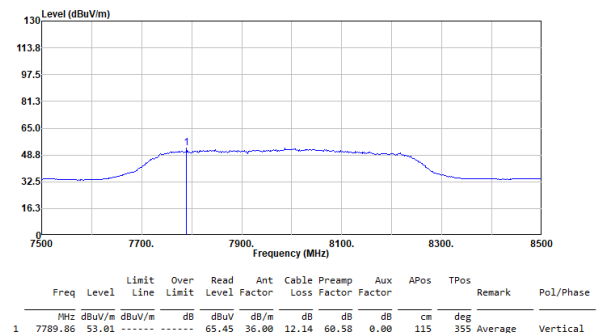
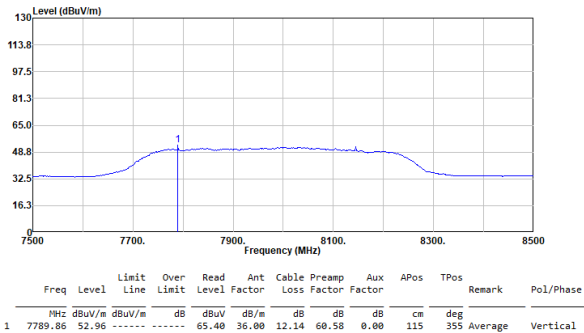
V

Test Distance

3m

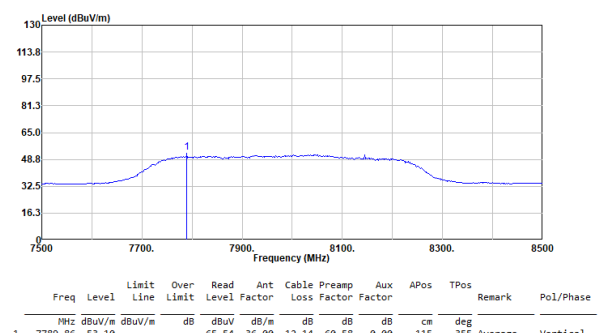
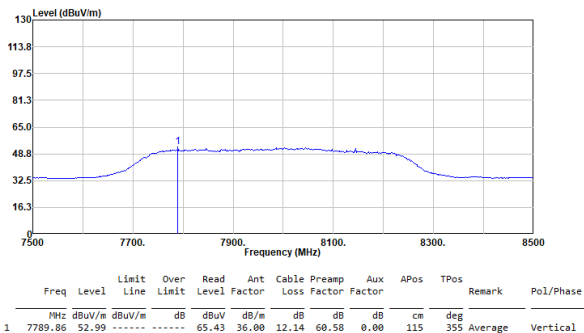
Mode 13: cidx-10_sts-1_packet length-0

Mode 14: cidx-27_sts-0_packet length-4095



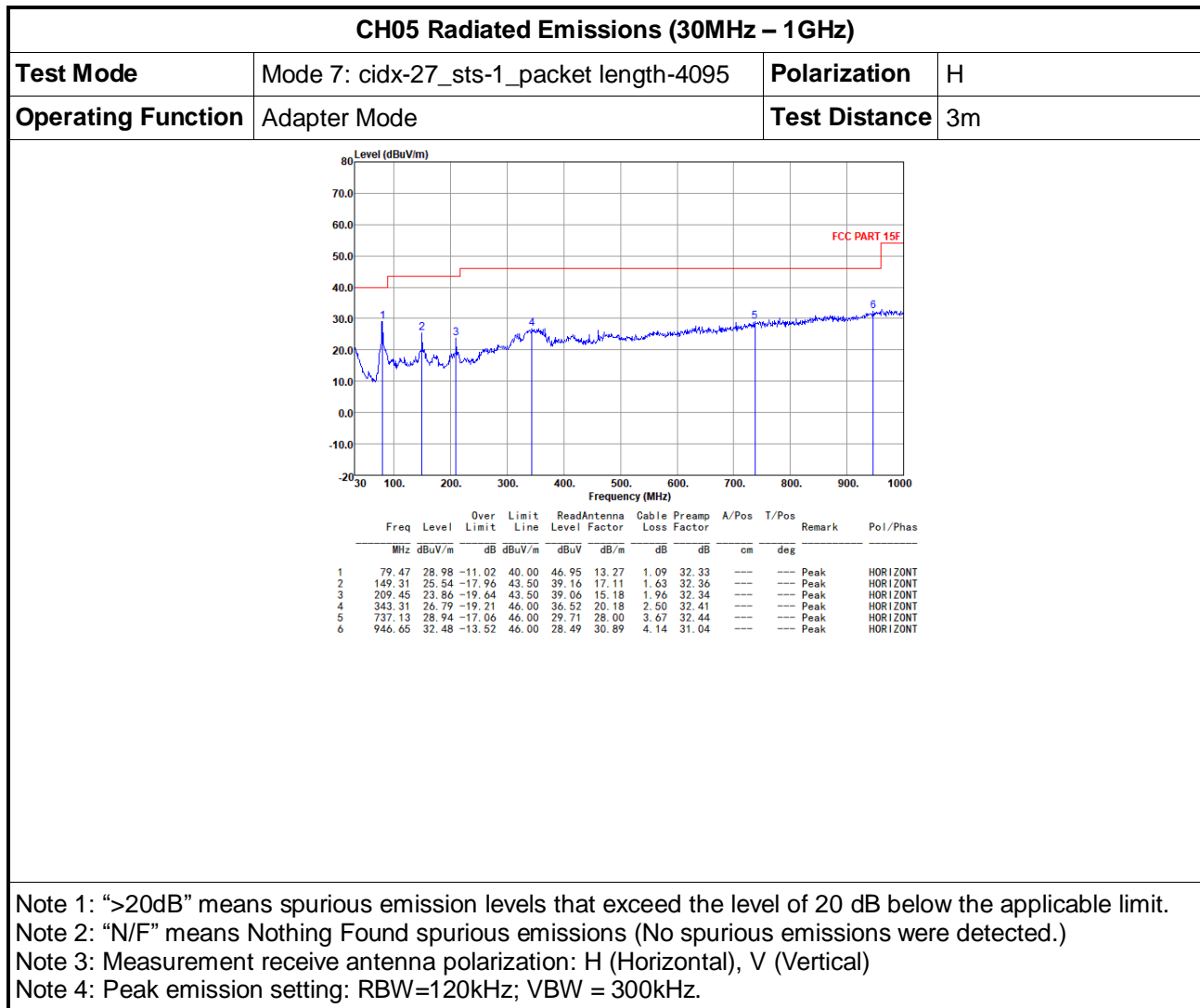
Mode 15: cidx-27_sts-1_packet length-4095

Mode 16: cidx-27_sts-1_packet length-0





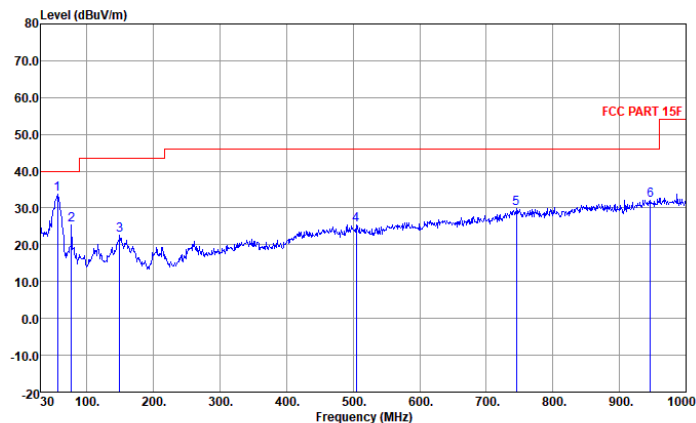
3.5.7 Radiated Emissions (30MHz – 1GHz)





CH05 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 7: cidx-27_sts-1_packet length-4095	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Loss	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg		
1	56.19	33.63	-6.37	40.00	52.84	12.39	0.79	32.39	---	Peak	VERTICAL
2	76.56	25.31	-14.69	40.00	43.63	13.04	1.04	32.40	---	Peak	VERTICAL
3	149.31	22.50	-21.00	43.50	36.12	17.11	1.63	32.36	---	Peak	VERTICAL
4	504.33	25.50	-20.50	46.00	30.80	24.21	3.03	32.54	---	Peak	VERTICAL
5	744.89	29.92	-16.08	46.00	30.47	28.17	3.69	32.41	---	Peak	VERTICAL
6	946.65	32.20	-13.80	46.00	28.21	30.89	4.14	31.04	---	Peak	VERTICAL

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.)

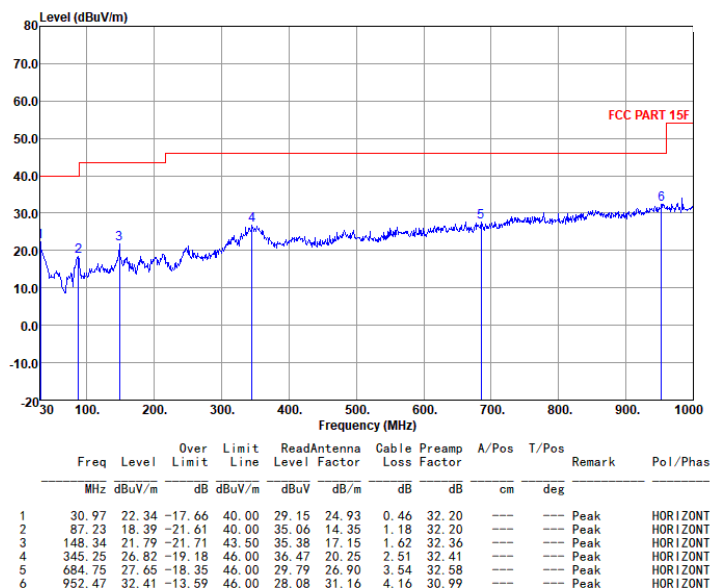
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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



CH09 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	H
Operating Function	Adapter Mode	Test Distance	3m



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.)

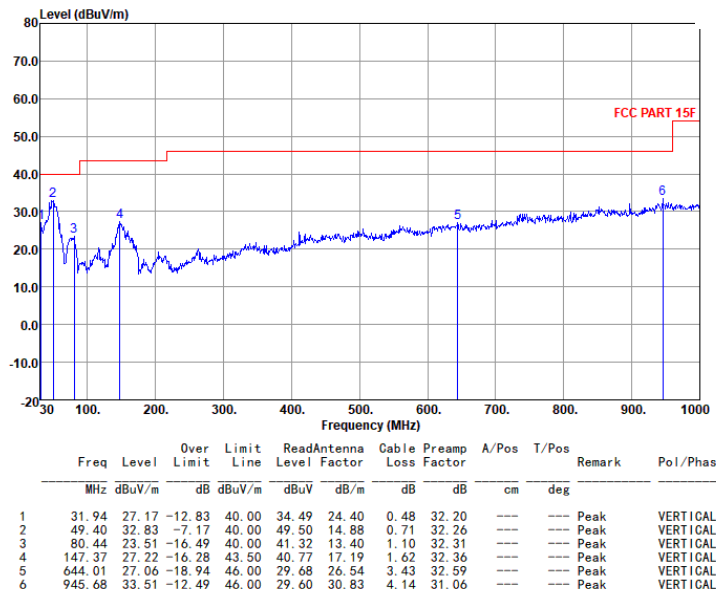
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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



CH09 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



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

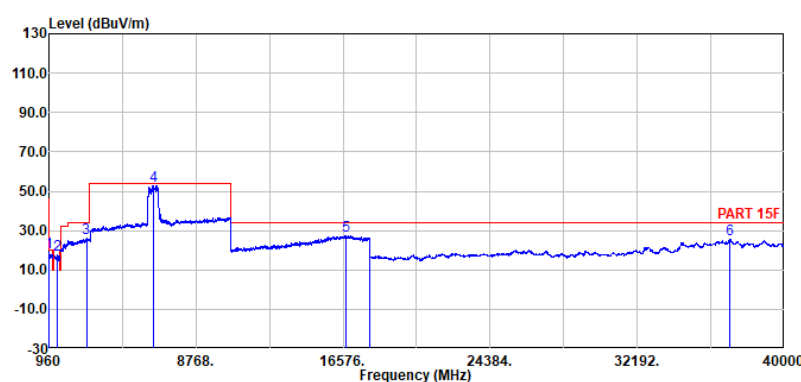
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

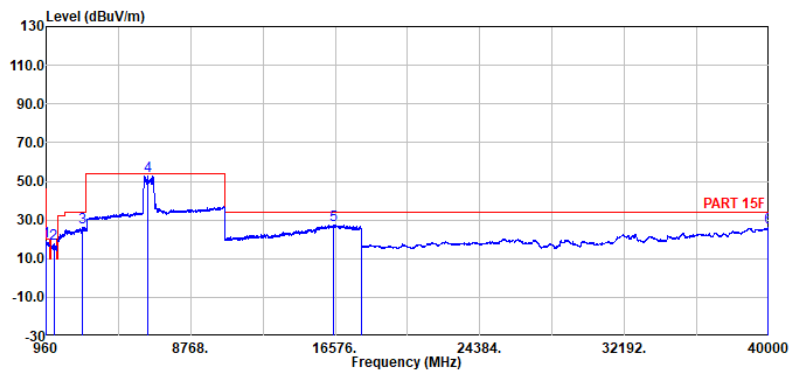


3.5.8 Radiated Emissions (960MHz – 40GHz)

CH05 Radiated Emissions (960MHz – 40GHz)																																																																																																																												
Test Mode	Mode 7: cidx-27_sts-1_packet length-4095							Polarization	H																																																																																																																			
Operating Function	Adapter Mode																																																																																																																											
Test Distance	960 ~1164 MHz: 0.5m 1164 ~ 1610 MHz: 1m 1610 ~ 10600 MHz: 3m 10600 ~ 18000 MHz: 0.5m 18000 ~ 40000 MHz: 1m																																																																																																																											
<div></div> <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>963.80</td><td>18.86</td><td>19.93</td><td>-1.07</td><td>62.53</td><td>29.85</td><td>4.24</td><td>62.20</td><td>-15.56</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>2</td><td>1397.27</td><td>17.59</td><td>19.93</td><td>-2.34</td><td>62.05</td><td>28.40</td><td>5.02</td><td>62.32</td><td>-15.56</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>3</td><td>2948.78</td><td>25.93</td><td>33.93</td><td>-8.00</td><td>56.53</td><td>32.79</td><td>7.31</td><td>61.16</td><td>-9.54</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>4</td><td>6515.20</td><td>52.82</td><td>53.93</td><td>-1.11</td><td>67.02</td><td>35.73</td><td>11.03</td><td>60.96</td><td>0.00</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>5</td><td>16749.40</td><td>27.52</td><td>33.93</td><td>-6.41</td><td>42.44</td><td>41.80</td><td>18.10</td><td>59.26</td><td>-15.56</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>6</td><td>37118.00</td><td>25.59</td><td>33.93</td><td>-8.34</td><td>17.84</td><td>39.48</td><td>33.07</td><td>55.26</td><td>-9.54</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr></table>														Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1	963.80	18.86	19.93	-1.07	62.53	29.85	4.24	62.20	-15.56	---	---	Average	Horizontal	2	1397.27	17.59	19.93	-2.34	62.05	28.40	5.02	62.32	-15.56	---	---	Average	Horizontal	3	2948.78	25.93	33.93	-8.00	56.53	32.79	7.31	61.16	-9.54	---	---	Average	Horizontal	4	6515.20	52.82	53.93	-1.11	67.02	35.73	11.03	60.96	0.00	---	---	Average	Horizontal	5	16749.40	27.52	33.93	-6.41	42.44	41.80	18.10	59.26	-15.56	---	---	Average	Horizontal	6	37118.00	25.59	33.93	-8.34	17.84	39.48	33.07	55.26	-9.54	---	---	Average	Horizontal
	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																	
1	963.80	18.86	19.93	-1.07	62.53	29.85	4.24	62.20	-15.56	---	---	Average	Horizontal																																																																																																															
2	1397.27	17.59	19.93	-2.34	62.05	28.40	5.02	62.32	-15.56	---	---	Average	Horizontal																																																																																																															
3	2948.78	25.93	33.93	-8.00	56.53	32.79	7.31	61.16	-9.54	---	---	Average	Horizontal																																																																																																															
4	6515.20	52.82	53.93	-1.11	67.02	35.73	11.03	60.96	0.00	---	---	Average	Horizontal																																																																																																															
5	16749.40	27.52	33.93	-6.41	42.44	41.80	18.10	59.26	-15.56	---	---	Average	Horizontal																																																																																																															
6	37118.00	25.59	33.93	-8.34	17.84	39.48	33.07	55.26	-9.54	---	---	Average	Horizontal																																																																																																															
<p>Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)</p> <p>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</p> <p>Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.</p> <p>Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.</p> <p>Note 6: #5 is fundamental signal.</p> <p>Note 7:</p> <ul style="list-style-type: none">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) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)																																																																																																																												

CH05 Radiated Emissions (960MHz – 40GHz)

Test Mode	Mode 7: cidx-27_sts-1_packet length-4095	Polarization	V
Operating Function	Adapter Mode		
Test Distance	960 ~1164 MHz: 0.5m 1164 ~ 1610 MHz: 1m 1610 ~ 10600 MHz: 3m 10600 ~ 18000 MHz: 0.5m 18000 ~ 40000 MHz: 1m		



	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	deg		
1	961.40	18.72	19.93	-1.21	62.68	29.57	4.24	62.21	-15.56	---	---	Average	Vertical
2	1370.47	17.67	19.93	-2.26	62.18	28.40	4.97	62.32	-15.56	---	---	Average	Vertical
3	2920.16	26.22	33.93	-7.71	57.16	32.56	7.29	61.25	-9.54	---	---	Average	Vertical
4	6441.20	52.67	53.93	-1.26	67.10	35.50	11.00	60.93	0.00	---	---	Average	Vertical
5	16483.00	27.45	33.93	-6.48	42.97	41.35	17.97	59.28	-15.56	---	---	Average	Vertical
6	39956.00	25.85	33.93	-8.08	14.68	41.21	34.35	54.85	-9.54	---	---	Average	Vertical

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

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

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

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

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

Note 6: #5 is fundamental signal.

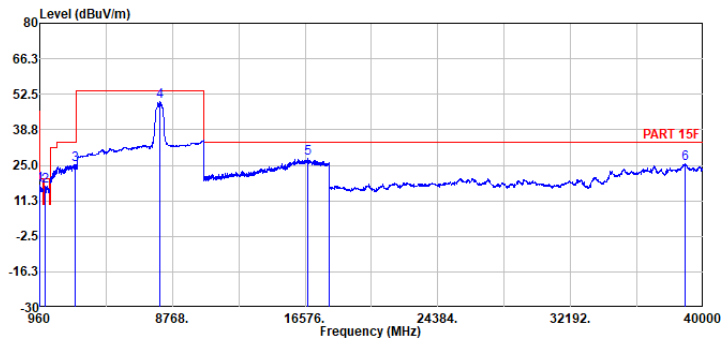
Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



CH09 Radiated Emissions (960MHz – 40GHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	H
Operating Function	Adapter Mode		
Test Distance	960 ~1164 MHz: 0.5m 1164 ~ 1610 MHz: 1m 1610 ~ 10600 MHz: 3m 10600 ~ 18000 MHz: 0.5m 18000 ~ 40000 MHz: 1m		



	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	Apos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		
1	960.41	17.39	19.93	-2.54	61.05	29.87	4.24	62.21	-15.56	---	---	Peak	Horizontal
2	1260.10	16.91	19.93	-3.02	61.80	28.22	4.76	62.31	-15.56	---	---	Average	Horizontal
3	3058.49	25.30	33.93	-8.63	55.86	32.73	7.45	61.20	-9.54	---	---	Average	Horizontal
4	8039.60	49.60	53.93	-4.33	61.57	35.82	12.44	60.23	0.00	---	---	Average	Horizontal
5	16756.80	27.69	33.93	-6.24	42.60	41.80	18.10	59.25	-15.56	---	---	Average	Horizontal
6	38944.00	25.71	33.93	-8.22	14.48	41.41	34.13	54.77	-9.54	---	---	Average	Horizontal

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

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

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

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

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

Note 6: #5 is fundamental signal.

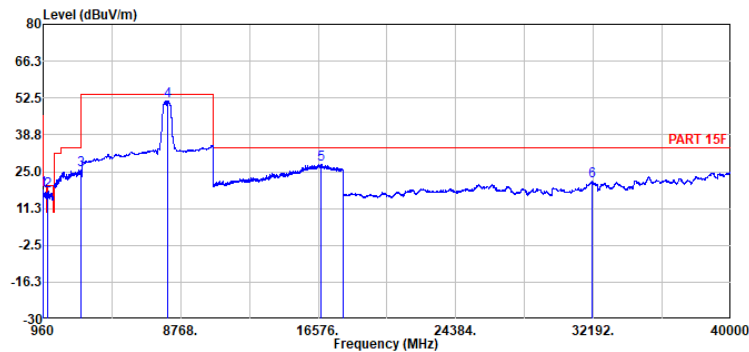
Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



CH09 Radiated Emissions (960MHz – 40GHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	V
Operating Function	Adapter Mode		
Test Distance	960 ~1164 MHz: 0.5m 1164 ~ 1610 MHz: 1m 1610 ~ 10600 MHz: 3m 10600 ~ 18000 MHz: 0.5m 18000 ~ 40000 MHz: 1m		



	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	961.02	17.99	19.93	-1.94	61.95	29.57	4.24	62.21	-15.56	---	---	Average	Vertical
2	1243.19	17.64	19.93	-2.29	62.59	28.19	4.73	62.31	-15.56	---	---	Average	Vertical
3	3082.34	25.73	33.93	-8.20	56.23	32.83	7.49	61.28	-9.54	---	---	Peak	Vertical
4	8039.60	51.49	53.93	-2.44	63.46	35.82	12.44	60.23	0.00	---	---	Average	Vertical
5	16719.80	27.65	33.93	-6.28	42.59	41.80	18.08	59.26	-15.56	---	---	Average	Vertical
6	32146.00	21.67	33.93	-12.26	18.31	36.52	31.30	54.92	-9.54	---	---	Average	Vertical

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

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

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

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

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

Note 6: #5 is fundamental signal.

Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)

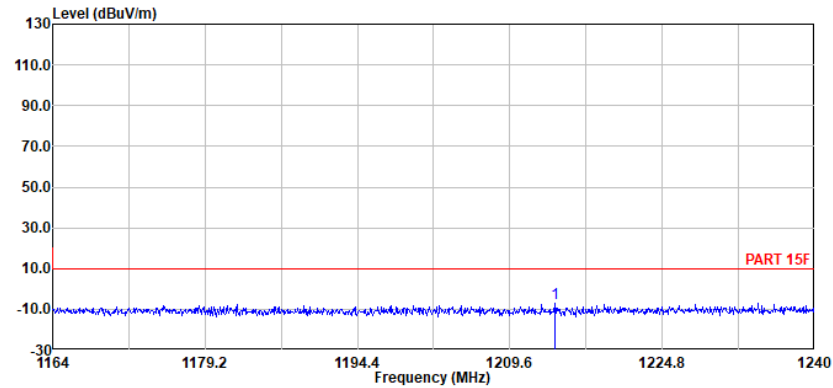
3.5.9 Radiated Emissions (1164MHz – 1240MHz)

CH05 Radiated Emissions (1164MHz – 1240MHz)													
Test Mode	Mode 7: cidx-27_sts-1_packet length-4095							Polarization		H			
Operating Function	Adapter Mode							Test Distance		1m			
<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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CH05 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 7: cidx-27_sts-1_packet length-4095	Polarization	V
Operating Function	Adapter Mode	Test Distance	1m



	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		
1	1214.08	-6.99	9.93	-16.92	32.05	28.13	4.68	62.31	-9.54	---	---	Average	Vertical

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.

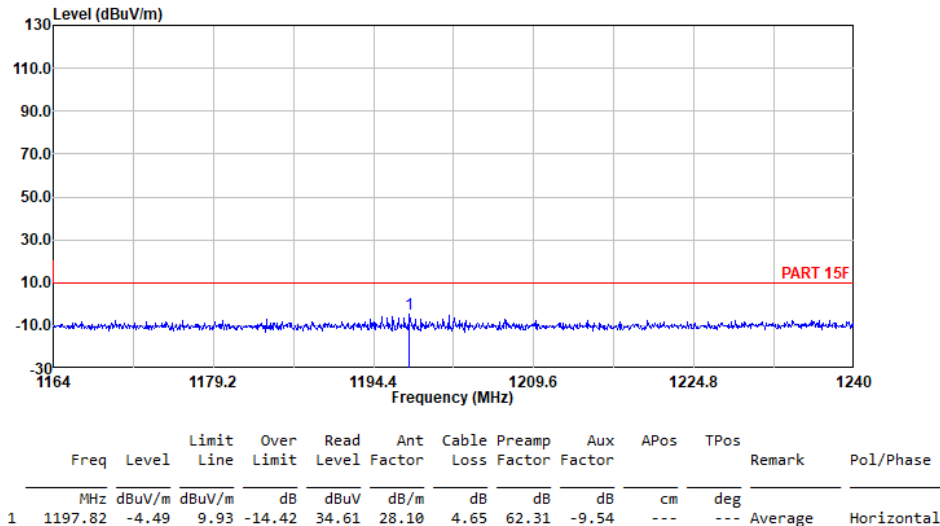
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



CH09 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	H
Operating Function	Adapter Mode	Test Distance	1m



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.

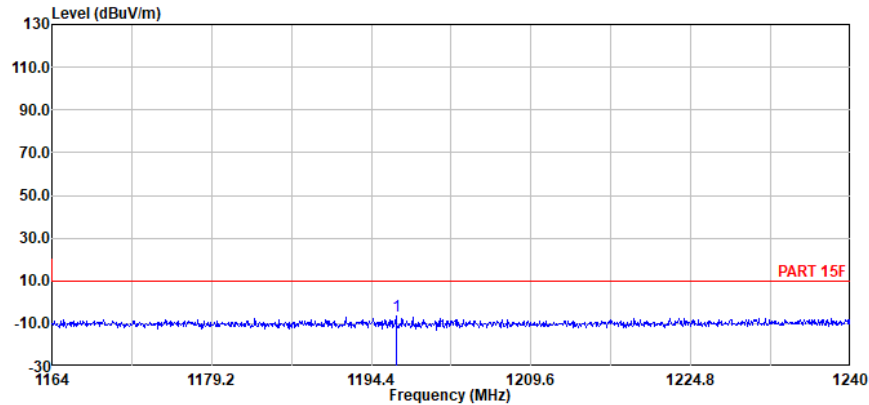
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



CH09 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	V
Operating Function	Adapter Mode	Test Distance	1m



	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		
1	1196.76	-6.57	9.93	-16.50	32.52	28.11	4.65	62.31	-9.54	---	---	Average	Vertical

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.)

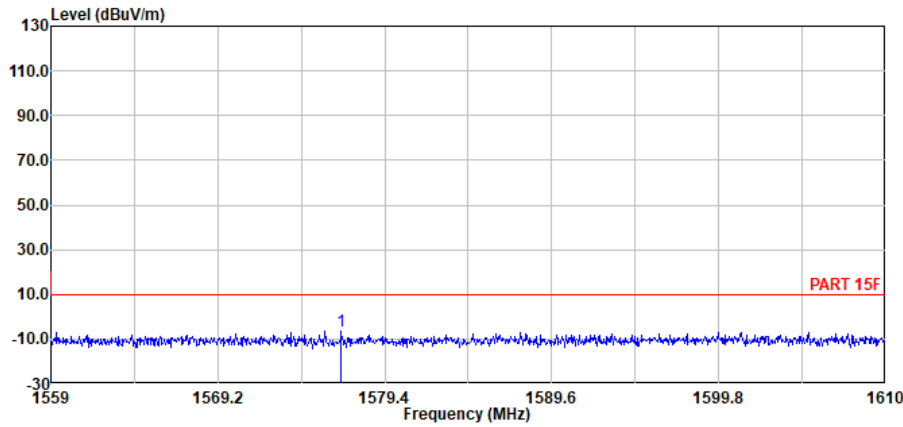
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)

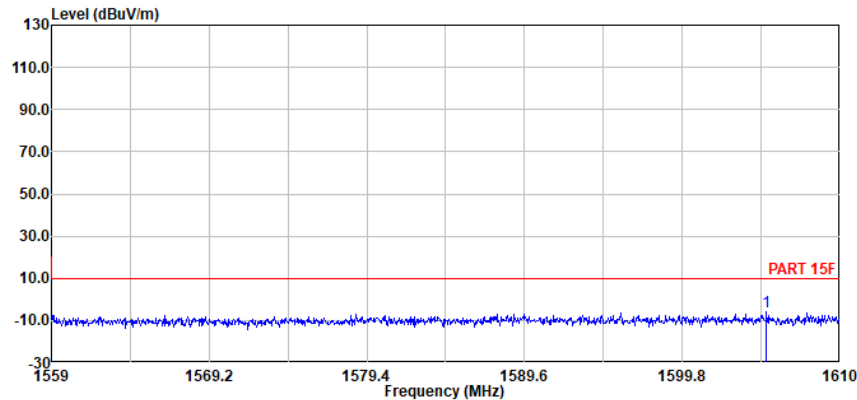
3.5.10 Radiated Emissions (1559MHz – 1610MHz)

CH05 Radiated Emissions (1559MHz – 1610MHz)																																																			
Test Mode	Mode 7: cidx-27_sts-1_packet length-4095							Polarization	H																																										
Operating Function	Adapter Mode							Test Distance	1m																																										
<div><div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 1576.75</td><td>-6.35</td><td>9.93</td><td>-16.28</td><td>31.91</td><td>28.38</td><td>5.35</td><td>62.45</td><td>-9.54</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr></table></div>													Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1 1576.75	-6.35	9.93	-16.28	31.91	28.38	5.35	62.45	-9.54	---	---	Average	Horizontal
Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																							
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																									
1 1576.75	-6.35	9.93	-16.28	31.91	28.38	5.35	62.45	-9.54	---	---	Average	Horizontal																																							
<div><div>Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.</div><div>Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)</div><div>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</div><div>Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.</div><div>Note 5:</div><div><div><div>Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)</div><div>Example: Distance extrapolation factor = 20log (1m/3m) = -9.54 (dB)</div></div><div><div>Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)</div></div></div></div>																																																			



CH05 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 7: cidx-27_sts-1_packet length-4095	Polarization	V
Operating Function	Adapter Mode	Test Distance	1m



	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		
1	1605.26	-6.05	9.93	-15.98	31.74	28.82	5.40	62.47	-9.54	---	---	Average	Vertical

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.

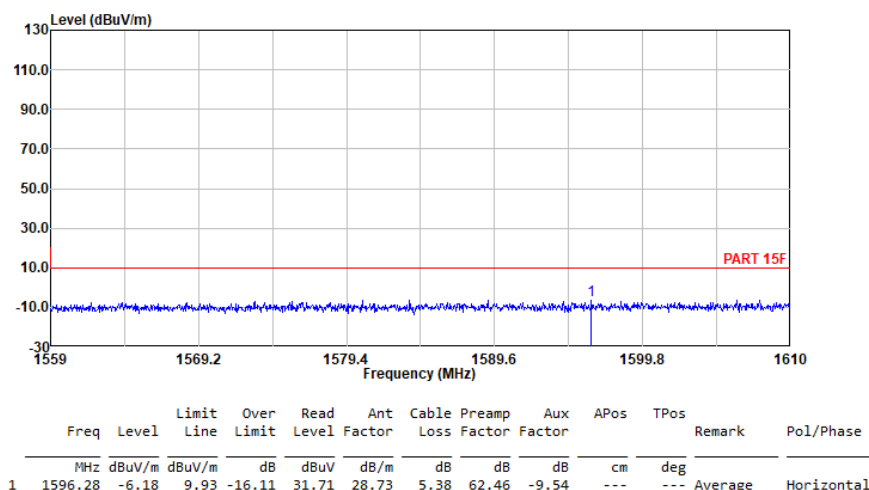
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



CH09 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	H
Operating Function	Adapter Mode	Test Distance	1m



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.

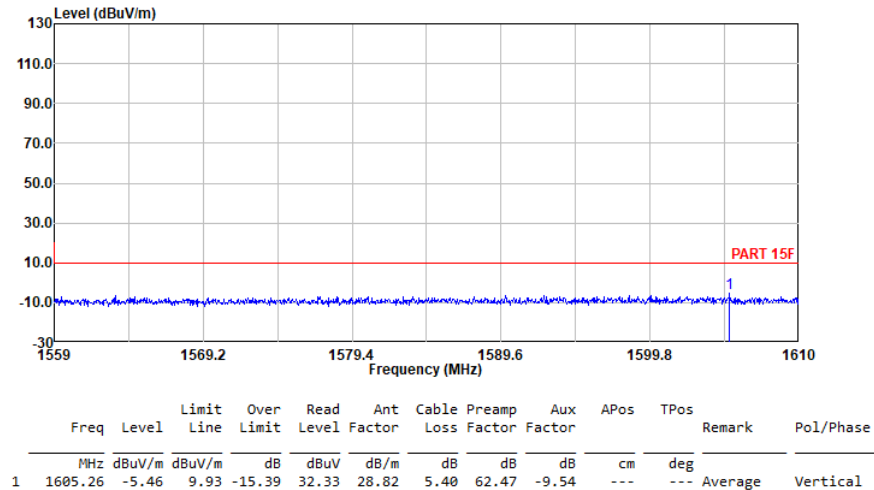
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



CH09 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 12: cidx-10_sts-1_packet length-127	Polarization	V
Operating Function	Adapter Mode	Test Distance	1m



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:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Mar. 27, 2024	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Mar. 27, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Mar. 27, 2024	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Mar. 27, 2024	Oct. 10, 2024	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;M ax 30dBm	Oct. 10, 2023	Apr. 26, 2024~ May 18, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY602421 26	10Hz~44GHz	Oct. 10, 2023	Apr. 26, 2024~ May 18, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 10, 2023	Apr. 26, 2024~ May 18, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Aug. 19, 2023	Apr. 26, 2024~ May 18, 2024	Aug. 18, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jul. 12, 2023	Apr. 26, 2024~ May 18, 2024	Jul. 11, 2024	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2024	Apr. 26, 2024~ May 18, 2024	Jan. 04, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 06, 2023	Apr. 26, 2024~ May 18, 2024	Jul. 05, 2024	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 04, 2024	Apr. 26, 2024~ May 18, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 04, 2024	Apr. 26, 2024~ May 18, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY532703 19	500MHz~26.5G Hz	Oct. 10, 2023	Apr. 26, 2024~ May 18, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Apr. 26, 2024~ May 18, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 26, 2024~ May 18, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 26, 2024~ May 18, 2024	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required.

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.84 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.06 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.18 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.38 dB
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