

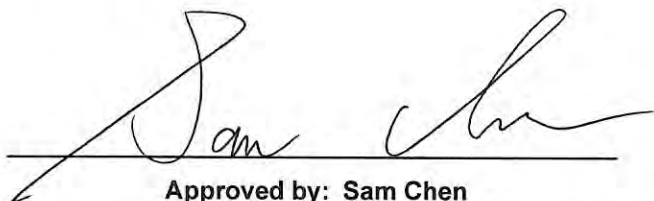


RADIO TEST REPORT

FCC ID : TVE-251001
Equipment : Secured Network Extension Device
Brand Name : FORTINET
Model Name : FortiExtenderWAN 50G-AMxxxxxxxxxxx,
FORTIEXTENDERWAN-50G-AMxxxxxxxxxxx,
FEW-50G-AMxxxxxxxxxxx
(Refer to section 1.1.6 for more details)
Applicant : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 08, 2025, and testing was started from Dec. 18, 2025 and completed on Jan. 19, 2026. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	15
1.3 Testing Location Information	15
1.4 Measurement Uncertainty	15
2 Test Configuration of EUT.....	16
2.1 Test Channel Mode	16
2.2 The Worst Case Measurement Configuration.....	17
2.3 EUT Operation during Test	19
2.4 Accessories	19
2.5 Support Equipment.....	19
2.6 Test Setup Diagram	20
3 Transmitter Test Result	23
3.1 AC Power-line Conducted Emissions	23
3.2 DTS Bandwidth	25
3.3 Maximum Conducted Output Power	26
3.4 Power Spectral Density	29
3.5 Emissions in Non-restricted Frequency Bands	31
3.6 Emissions in Restricted Frequency Bands.....	32
4 Test Equipment and Calibration Data	36
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Photos	
Photographs of EUT V01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_6 Ver1.3



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

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



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4G	BT-LE(1Mbps)	1	1
2.4G	BT-LE(2Mbps)	2	1

Note:

- ♦ Bluetooth LE uses a GFSK modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

For WWAN function:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
0	Arcadyan	120800167100J	Dipole Antenna	MHF1	Note1
1	Arcadyan	120800167200J	Monopole Antenna	MHF1	
2	Arcadyan	120800167300J	Dipole Antenna	MHF1	
3	Arcadyan	120800167400J	Monopole Antenna	MHF1	
4	Arcadyan	120800167500J	Dipole Antenna	MHF1	
5	Arcadyan	120800167600J	Monopole Antenna	MHF1	
6	Arcadyan	120800167700J	Dipole Antenna	MHF1	
7	Arcadyan	120800167800J	Monopole Antenna	MHF1	

For Bluetooth/GNSS function:

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	Bluetooth	GNSS					
8	1	-	Arcadyan	120800167900J	Dipole Antenna	MHF1	3.53
9	-	1	Arcadyan	120800168000J	Dipole Antenna	MHF1	1.56



Note1:

Band		Gain (dBi)	Remark	
			TX	RX
LTE	Band 2	3.22	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 4	3.1	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 5	4.1	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 7	2.92	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 12	2.4	Ant. 5	Ant. 1, 3, 5, 7
	Band 13	3.9	Ant. 5	Ant. 1, 3, 5, 7
	Band 14	3.8	Ant. 5	Ant. 1, 3, 5, 7
	Band 17	2.4	Ant. 5	Ant. 1, 3, 5, 7
	Band 25	3.22	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 26	4.2	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 29	2.4	N/A	Ant. 3, 7
	Band 30	-1.12	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 38	2.92	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 41	2.92	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 42	0.89	Ant. 6/0	Ant. 0, 2, 4, 6
	Band 43	0.89	Ant. 6/0	Ant. 0, 2, 4, 6
	Band 46	1.56	N/A	Ant. 2, 4
	Band 48	-2.09	Ant. 6/0	Ant. 0, 2, 4, 6
	Band 66	3.1	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 70	2.5	Ant. 5/1	Ant. 1, 3, 5, 7
	Band 71	1.7	Ant. 5	Ant. 1, 3, 5, 7
5G NR	Band n2	Ant. 1:2.93 Ant. 5:3.22	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n5	Ant. 1:2.8 Ant. 5:4.1	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n7	2.92	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n12	1.6	Ant. 5	Ant. 1, 3, 5, 7
	Band n13	2.7	Ant. 5	Ant. 1, 3, 5, 7
	Band n14	2.6	Ant. 5	Ant. 1, 3, 5, 7
	Band n25	Ant. 1:2.93 Ant. 5:3.22	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n26	2.6	Ant. 5	Ant. 1, 3, 5, 7
	Band n29	2.6	N/A	Ant. 3, 7
	Band n30	-1.12	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n38	Ant. 1:2.92 Ant. 5:2.2	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n41	Ant. 1:2.92 Ant. 5:2.88	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n48	Ant. 0:-2.1 Ant. 6:-2.09	Ant. 0/6	Ant. 0, 2, 4, 6
	Band n66	Ant. 1:3.1 Ant. 5:3.08	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n70	Ant. 1:2.5 Ant. 5:2.5	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n71	Ant. 1:1.4 Ant. 5:1.7	Ant. 1/5	Ant. 1, 3, 5, 7
	Band n77	Ant. 0:-0.05 Ant. 6:-0.04	Ant. 0/6	Ant. 0, 2, 4, 6
	Band n78	Ant. 0:-0.05 Ant. 6:-0.04	Ant. 0/6	Ant. 0, 2, 4, 6



Note3: The above information was declared by the manufacturer.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For GNSS function (1RX):

Only Port 1 can be used as receiving antenna.

For WWAN LTE function:

For Band 2/4/5/7/25/26/30/38/41/66/70:

Ant. 5(TX0) and Ant. 1(TX1) can be used as transmitting antenna.

Ant. 1, 3, 5, 7 can be used as receiving antenna.

For Band 12/13/14/17/71:

Ant. 5(TX0) can be used as transmitting antenna.

Ant. 1, 3, 5, 7 can be used as receiving antenna.

For Band 42/43/48:

Ant. 6(TX0) and Ant. 0(TX1) can be used as transmitting antenna.

Ant. 0, 2, 4, 6 can be used as receiving antenna.

For Band 29:

Ant. 3, 7 can be used as receiving antenna.

For Band 46:

Ant. 2, 4 can be used as receiving antenna.

For WWAN 5G NR function:

For Band n2/5/7/25/30/38/41/66/70/71:

Ant. 1(TX0) and Ant. 5(TX1) can be used as transmitting antenna.

Ant. 1, 3, 5, 7 can be used as receiving antenna.

For Band n12/13/14/26:

Ant. 5(TX0) can be used as transmitting antenna.

Ant. 1, 3, 5, 7 can be used as receiving antenna.

For Band n48/77/78:

Ant. 0(TX0) and Ant. 6(TX1) can be used as transmitting antenna.

Ant. 0, 2, 4, 6 can be used as receiving antenna.

For Band 29:

Ant. 3, 7 can be used as receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
BT-LE(1Mbps)	0.63	2.01	395u	3k
BT-LE(2Mbps)	0.334	4.76	209.063u	5k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Adapter or PoE			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Dos [ver 10.0.10586]			
Support Mode	☒	LE 1M PHY: 1 Mb/s		
	☐	LE Coded PHY (S=2): 500 Kb/s		
	☐	LE Coded PHY (S=8): 125 Kb/s		
	☒	LE 2M PHY: 2 Mb/s		

Note: The above information was declared by manufacturer.

**1.1.5 Table of WWAN Module information**

The certified WWAN module information is listed below:

FCC ID	Support Function
2BEY3HMT89LDA	LTE: B2/4/5/7/12/13/14/17/25/26/29/30/38/41/42/43/46/48/66/70/71 5G NR: n2/5/7/12/13/14/25/26/29/30/38/41/48/66/70/71/77/78 LTE CA: Note1 5G NR CA: Note1 5G EN-DC: Note1

Note1:

LTE CA
CA_2C, CA_4C, CA_5B, CA_7B, CA_7C, CA_12B, CA_38C, CA_41C, CA_41D, CA_41E, CA_42C, CA_42D, CA_42E, CA_43C, CA_48B, CA_48C, CA_48D, CA_48E, CA_66B, CA_66C, CA_66D, CA_66E, CA_2A-2A, CA_2A-4A, CA_2A-4C, CA_2A-5A, CA_2A-5B, CA_2C-5A, CA_2C-5B, CA_2A-7A, CA_2A-7C, CA_2A-12A, CA_2A-12B, CA_2C-12A, CA_2A-13A, CA_2A-14A, CA_2A-17A, CA_2A-29A, CA_2C-29A, CA_2A-30A, CA_2C-30A, CA_2A-38A, CA_2A-41A, CA_2A-46A, CA_2A-46C, CA_2A-46D, CA_2A-46E, CA_2A-48A, CA_2A-48C, CA_2A-48D, CA_2A-48E, CA_2A-66A, CA_2A-66B, CA_2A-66C, CA_2A-66D, CA_2C-66A, CA_2A-71A, CA_4A-4A, CA_4A-5A, CA_4A-5B, CA_4A-7A, CA_4A-7C, CA_4A-12A, CA_4A-12B, CA_4A-13A, CA_4A-17A, CA_4A-30A, CA_4A-38A, CA_4A-41A, CA_4A-46A, CA_4A-46C, CA_4A-46D, CA_4A-48A, CA_4A-48C, CA_4A-48D, CA_4A-48E, CA_4A-66A, CA_4C-5A, CA_4C-5B, CA_4C-13A, CA_4C-46D, CA_4A-71A, CA_5A-5A, CA_5A-7A, CA_5A-7C, CA_5A-12A, CA_5A-13A, CA_5A-14A, CA_5A-17A, CA_5A-25A, CA_5A-26A, CA_5A-29A, CA_5A-30A, CA_5A-41A, CA_5A-42A, CA_5A-46A, CA_5A-46C, CA_5A-46D, CA_5A-46E, CA_5A-48A, CA_5A-48C, CA_5A-48D, CA_5A-48E, CA_5A-66A, CA_5A-66B, CA_5A-66C, CA_5A-66D, CA_5A-66E, CA_5B-13A, CA_5B-30A, CA_5B-46A, CA_5B-46C, CA_5B-46D, CA_5B-66A, CA_5B-66B, CA_5B-66C, CA_5A-71A, CA_7A-7A, CA_7A-12A, CA_7A-12B, CA_7A-13A, CA_7A-17A, CA_7A-25A, CA_7A-26A, CA_7A-29A, CA_7A-42A, CA_7A-66A, CA_7C-66A, CA_7A-71A, CA_12A-12A, CA_12A-25A, CA_12A-30A, CA_12A-38A, CA_12A-41A, CA_12A-46A, CA_12A-46C, CA_12A-46D, CA_12A-48A, CA_12A-66A, CA_12A-66C, CA_12B-66A, CA_13A-25A, CA_13A-38A, CA_13A-41A, CA_13A-46A, CA_13A-46C, CA_13A-46D, CA_13A-46E, CA_13A-48A, CA_13A-48C, CA_13A-48D, CA_13A-48E, CA_13A-66A, CA_13A-66B, CA_13A-66C, CA_13A-66D, CA_14A-30A, CA_14A-66A, CA_17A-38A, CA_17A-41A, CA_17A-66A, CA_25A-25A, CA_25A-26A, CA_25A-41A, CA_25A-41C, CA_25A-41D, CA_25A-46A, CA_25A-46C, CA_25A-46D, CA_25A-48A, CA_25A-66A, CA_25A-71A, CA_26A-38A, CA_26A-41A, CA_26A-41C, CA_26A-46A, CA_26A-66A, CA_29A-30A, CA_29A-66A, CA_30A-48A, CA_30A-66A, CA_38A-38A, CA_38A-41A, CA_38A-42A, CA_38A-66A, CA_41A-41A, CA_41A-41C, CA_41A-41D, CA_41C-41C, CA_41A-42A, CA_41A-42C, CA_41A-46A, CA_41A-46C, CA_41C-41A, CA_41C-42A, CA_41C-42C, CA_41D-42A, CA_41A-46D, CA_41A-48A, CA_41A-66A, CA_41A-71A, CA_42A-42A, CA_42A-42D, CA_43A-43A, CA_46A-48A, CA_46A-48C, CA_46A-48D, CA_46A-66A, CA_46C-48A, CA_46C-48C, CA_46C-48D, CA_46A-66C, CA_46C-66A, CA_46D-48A, CA_46D-48C, CA_46D-66A, CA_46D-66C, CA_46E-66A, CA_48A-48A, CA_48A-66A, CA_48A-66B, CA_48A-66C, CA_48C-48A, CA_48C-48C, CA_48C-66A, CA_48C-66B, CA_48C-66C, CA_48D-48A, CA_48D-48C, CA_48D-66A, CA_48E-48A, CA_48E-66A, CA_66A-66A, CA_66A-66B, CA_66A-66C, CA_66A-71A, CA_66B-66A, CA_66C-66A, CA_66C-71A, CA_2A-2A-4A, CA_2A-2A-4C, CA_2A-2A-5A, CA_2A-2A-5B, CA_2A-2A-7A, CA_2A-2A-12A, CA_2A-2A-12B, CA_2A-2A-13A, CA_2A-2A-14A, CA_2A-2A-29A, CA_2A-2A-30A, CA_2A-2A-46A, CA_2A-2A-46C, CA_2A-2A-46D, CA_2A-2A-66A, CA_2A-2A-66B, CA_2A-2A-66C, CA_2A-2A-71A, CA_2A-4A-4A, CA_2A-4A-5A, CA_2A-4A-5B, CA_2A-4A-7A, CA_2A-4A-7C, CA_2A-4A-12A, CA_2A-4A-12B, CA_2A-4A-13A, CA_2A-4A-29A, CA_2A-4A-30A, CA_2A-4A-71A, CA_2A-4C-5A, CA_2A-4C-5B, CA_2A-4C-13A, CA_2A-5A-5A, CA_2A-5A-7A, CA_2A-5A-7C, CA_2A-5A-29A, CA_2A-5A-30A, CA_2C-5A-30A, CA_2C-5B-30A, CA_2A-5A-46A, CA_2A-5A-46C, CA_2A-5A-46D, CA_2A-5A-48A, CA_2A-5A-48C, CA_2A-5A-48D, CA_2A-5A-66A, CA_2A-5A-66B, CA_2A-5A-66C, CA_2A-5B-30A, CA_2A-5B-66A, CA_2A-5B-66B, CA_2A-5B-66C, CA_2A-7A-7A, CA_2A-7A-12A, CA_2A-7A-12B, CA_2A-7A-13A, CA_2A-7A-29A, CA_2A-7A-66A, CA_2A-7C-66A, CA_2A-12A-30A, CA_2C-12A-30A, CA_2A-12A-66A, CA_2A-12A-66C, CA_2A-12B-66A, CA_2A-13A-48A, CA_2A-13A-48C, CA_2A-13A-48D, CA_2A-13A-66A, CA_2A-13A-66B, CA_2A-13A-66C, CA_2A-13A-66D, CA_2A-14A-30A, CA_2A-14A-66A, CA_2A-29A-30A, CA_2C-29A-30A, CA_2A-29A-66A, CA_2A-46A-46A, CA_2A-46A-46C, CA_2A-46A-46D, CA_2A-46A-48A, CA_2A-46A-48C, CA_2A-46A-48D, CA_2A-46A-66A, CA_2A-46C-46A, CA_2A-46C-46C, CA_2A-46C-48A, CA_2A-46C-48C, CA_2A-46C-66A, CA_2A-46D-46A, CA_2A-46D-48A, CA_2A-46D-66A, CA_2A-48A-48A, CA_2A-48A-66A, CA_2A-48C-48A, CA_2A-48C-48C,



CA_2A-48C-66A, CA_2A-48D-48A, CA_2A-48D-66A, CA_2A-66A-66A, CA_2A-66A-66B, CA_2A-66A-66C, CA_2A-66A-71A, CA_2A-66B-66A, CA_2A-66C-71A, CA_2C-66A-66A, CA_4A-4A-5A, CA_4A-4A-5B, CA_4A-4A-7A, CA_4A-4A-12A, CA_4A-4A-12B, CA_4A-4A-13A, CA_4A-4A-30A, CA_4A-4A-71A, CA_4A-5A-29A, CA_4A-5A-30A, CA_4A-7A-7A, CA_4A-7A-12A, CA_4A-12A-30A, CA_4A-46A-46A, CA_4A-46A-46C, CA_4A-46D-46A, CA_5A-5A-66A, CA_5A-5A-66B, CA_5A-5A-66C, CA_5A-7A-7A, CA_5A-7A-66A, CA_5A-30A-66A, CA_5A-46A-66A, CA_5A-46C-66A, CA_5A-46D-66A, CA_5A-48A-66A, CA_5A-48C-66A, CA_5A-48D-66A, CA_5A-66A-66A, CA_5B-30A-66A, CA_5A-66A-66B, CA_5A-66A-66C, CA_5B-66A-66A, CA_7A-7A-13A, CA_7A-7A-26A, CA_7A-7A-29A, CA_7A-7A-66A, CA_7A-12A-66A, CA_7A-12B-66A, CA_7A-13A-66A, CA_7A-25A-66A, CA_7A-29A-66A, CA_7A-66A-66A, CA_7C-66A-66A, CA_12A-30A-66A, CA_12A-66A-66A, CA_12B-66A-66A, CA_13A-46A-46A, CA_13A-48A-48A, CA_13A-48A-66A, CA_13A-48A-66B, CA_13A-48A-66C, CA_13A-48C-48A, CA_13A-48C-48C, CA_13A-48C-66A, CA_13A-48C-66B, CA_13A-48C-66C, CA_13A-48D-48A, CA_13A-48D-66A, CA_13A-66A-66A, CA_13A-66A-66B, CA_13A-66A-66C, CA_13A-66B-66A, CA_14A-30A-66A, CA_14A-66A-66A, CA_25A-25A-26A, CA_25A-25A-41A, CA_25A-25A-41C, CA_29A-30A-66A, CA_29A-66A-66A, CA_30A-66A-66A, CA_41A-42A-42A, CA_46A-46A-66A, CA_46A-66A-66A, CA_46C-46A-66A, CA_46C-46C-66A, CA_46C-66A-66A, CA_46D-46A-66A, CA_46D-66A-66A, CA_48A-48A-66A, CA_48A-48A-66B, CA_48A-48A-66C, CA_48C-48A-66A, CA_48C-48A-66B, CA_48C-48A-66C, CA_48C-48C-66A, CA_48D-48A-66A, CA_66A-66A-71A, CA_2A-2A-4A-4A, CA_2A-2A-4A-5A, CA_2A-2A-4A-5B, CA_2A-2A-4A-12A, CA_2A-2A-4A-13A, CA_2A-2A-4A-71A, CA_2A-2A-4C-5A, CA_2A-2A-4C-13A, CA_2A-2A-5A-30A, CA_2A-2A-5A-66A, CA_2A-2A-5A-66B, CA_2A-2A-5A-66C, CA_2A-2A-5B-66A, CA_2A-2A-7A-12A, CA_2A-2A-7A-66A, CA_2A-2A-12A-30A, CA_2A-2A-12A-66A, CA_2A-2A-12B-66A, CA_2A-2A-13A-66A, CA_2A-2A-13A-66B, CA_2A-2A-13A-66C, CA_2A-2A-14A-30A, CA_2A-2A-14A-66A, CA_2A-2A-29A-30A, CA_2A-2A-29A-66A, CA_2A-2A-30A-66A, CA_2A-2A-66A-66A, CA_2A-2A-66A-66B, CA_2A-2A-66A-66C, CA_2A-2A-66A-71A, CA_2A-4A-4A-5A, CA_2A-4A-4A-5B, CA_2A-4A-4A-12A, CA_2A-4A-4A-13A, CA_2A-4A-7A-7A, CA_2A-5A-5A-66A, CA_2A-5A-7A-7A, CA_2A-5A-30A-66A, CA_2A-5A-66A-66A, CA_2A-5B-30A-66A, CA_2A-5B-66A-66A, CA_2A-7A-7A-13A, CA_2A-7A-7A-66A, CA_2A-7A-13A-66A, CA_2A-7A-66A-66A, CA_2A-7C-66A-66A, CA_2A-12A-30A-66A, CA_2A-12A-66A-66A, CA_2A-12B-66A-66A, CA_2A-13A-66A-66A, CA_2A-13A-66A-66B, CA_2A-14A-30A-66A, CA_2A-14A-66A-66A, CA_2A-29A-30A-66A, CA_2A-29A-66A-66A, CA_2A-30A-66A-66A, CA_2A-66A-66A-71A, CA_4A-4A-12A-30A, CA_5A-5A-66A-66A, CA_5A-7A-66A-66A, CA_5A-30A-66A-66A, CA_5B-30A-66A-66A, CA_7A-7A-66A-66A, CA_12A-30A-66A-66A, CA_14A-30A-66A-66A, CA_29A-30A-66A-66A, CA_2A-2A-4A-4A-5A, CA_2A-2A-4A-4A-13A, CA_2A-2A-5A-66A-66A, CA_2A-2A-12A-66A-66A, CA_2A-2A-13A-66A-66A, CA_2A-5A-5A-66A-66A

5G NR CA

CA_n5B, CA_n7B, CA_n41C, CA_n48B, CA_n48C, CA_n66B, CA_n71B, CA_n77C, CA_n78C, CA_n78D, CA_n2(2A), CA_n2A-n5A, CA_n2A-n5B, CA_n2A-n7A, CA_n2A-n12A, CA_n2A-n14A, CA_n2A-n29A, CA_n2A-n30A, CA_n2A-n38A, CA_n2A-n41A, CA_n2A-n48A, CA_n2A-n48B, CA_n2A-n48C, CA_n2A-n66A, CA_n2A-n66B, CA_n2A-n71A, CA_n2A-n77A, CA_n2A-n77C, CA_n2A-n78A, CA_n5(2A), CA_n5A-n7A, CA_n5A-n7B, CA_n5A-n12A, CA_n5A-n25A, CA_n5A-n30A, CA_n5A-n41A, CA_n5A-n48A, CA_n5A-n48B, CA_n5A-n48C, CA_n5A-n66A, CA_n5A-n66B, CA_n5B-n66A, CA_n5A-n71A, CA_n5A-n77A, CA_n5A-n77C, CA_n5B-n77A, CA_n5B-n77C, CA_n5A-n78A, CA_n7(2A), CA_n7A-n12A, CA_n7A-n25A, CA_n7A-n66A, CA_n7A-n71A, CA_n7A-n77A, CA_n7A-n78A, CA_n7B-n78A, CA_n12A-n25A, CA_n12A-n30A, CA_n12A-n41A, CA_n12A-n48A, CA_n12A-n66A, CA_n12A-n77A, CA_n12A-n78A, CA_n14A-n30A, CA_n14A-n66A, CA_n14A-n77A, CA_n25(2A), CA_n25A-n29A, CA_n25A-n38A, CA_n25A-n41A, CA_n25A-n41C, CA_n25A-n48A, CA_n25A-n48C, CA_n25A-n66A, CA_n25A-n71A, CA_n25A-n71B, CA_n25A-n77A, CA_n25A-n78A, CA_n29A-n30A, CA_n29A-n66A, CA_n30A-n66A, CA_n30A-n77A, CA_n38A-n66A, CA_n38A-n78A, CA_n41(2A), CA_n41A-n48A, CA_n41A-n66A, CA_n41C-n66A, CA_n41A-n71A, CA_n41A-n71B, CA_n41C-n71A, CA_n41C-n71B, CA_n41A-n77A, CA_n41C-n77A, CA_n41A-n78A, CA_n48(2A), CA_n48B-n48A, CA_n48A-n48B, CA_n48C-n48A, CA_n48A-n48C, CA_n48A-n66A, CA_n48B-n66A, CA_n48C-n66A, CA_n48A-n70A, CA_n48A-n71A, CA_n48A-n77A, CA_n48A-n77C, CA_n48B-n77A, CA_n48B-n77C, CA_n66(2A), CA_n66B-n66A, CA_n66A-n71A, CA_n66A-n71B, CA_n66A-n77A, CA_n66A-n77C, CA_n66B-n77A, CA_n66B-n77C, CA_n66A-n78A, CA_n71(2A), CA_n71A-n77A, CA_n71A-n78A, CA_n77(2A), CA_n78(2A), CA_n2A-n2A-n5A, CA_n2A-n2A-n12A, CA_n2A-n2A-n14A, CA_n2A-n2A-n30A, CA_n2A-n2A-n66A, CA_n2A-n5A-n30A, CA_n2A-n5A-n66A, CA_n2A-n5A-n77A, CA_n2A-n5A-n77C, CA_n2A-n12A-n30A, CA_n2A-n12A-n66A, CA_n2A-n14A-n30A, CA_n2A-n14A-n66A, CA_n2A-n30A-n66A, CA_n2A-n48A-n77A, CA_n2A-n48A-n77C, CA_n2A-n48B-n77A, CA_n2A-n66A-n66A, CA_n2A-n66A-n77A, CA_n2A-n66A-n77C, CA_n5A-n30A-n66A, CA_n5A-n48A-n77A, CA_n5A-n48A-n77C, CA_n5A-n48B-n77A, CA_n5A-n66A-n66A, CA_n5B-n66A-n66A, CA_n5A-n66A-n77A, CA_n5A-n66A-n77C, CA_n12A-n30A-n66A, CA_n12A-n66A-n66A, CA_n14A-n30A-n66A, CA_n14A-n66A-n66A, CA_n25A-n25A-n41A, CA_n25A-n25A-n66A,



CA_n25A-n41A-n41A, CA_n25A-n41A-n66A, CA_n25A-n41C-n66A, CA_n25A-n41A-n71A,
CA_n25A-n41C-n71A, CA_n25A-n41A-n77A, CA_n25A-n41C-n77A, CA_n25A-n48A-n48A,
CA_n25A-n48A-n66A, CA_n25A-n48C-n66A, CA_n25A-n66A-n71A, CA_n25A-n66A-n77A,
CA_n25A-n71A-n71A, CA_n25A-n71A-n77A, CA_n30A-n66A-n66A, CA_n41A-n41A-n66A,
CA_n41A-n41A-n71A, CA_n41A-n41A-n71B, CA_n41A-n41A-n77A, CA_n41A-n66A-n71A,
CA_n41C-n66A-n71A, CA_n41A-n66A-n77A, CA_n41A-n71A-n71A, CA_n41A-n71A-n77A,
CA_n41C-n71A-n77A, CA_n48A-n48A-n66A, CA_n48B-n48A-n66A, CA_n48C-n48A-n66A,
CA_n48A-n66A-n77A, CA_n48A-n66A-n77C, CA_n48B-n66A-n77A, CA_n66A-n71A-n71A,
CA_n66A-n71A-n77A, CA_n2A-n2A-n5A-n66A, CA_n2A-n2A-n12A-n30A, CA_n2A-n2A-n12A-n66A,
CA_n2A-n2A-n14A-n30A, CA_n2A-n2A-n14A-n66A, CA_n2A-n2A-n66A-n66A, CA_n2A-n5A-n30A-n66A,
CA_n2A-n5A-n66A-n66A, CA_n2A-n12A-n30A-n66A, CA_n2A-n12A-n66A-n66A,
CA_n2A-n14A-n30A-n66A, CA_n2A-n14A-n66A-n66A, CA_n5A-n30A-n66A-n66A,
CA_n12A-n30A-n66A-n66A, CA_n14A-n30A-n66A-n66A, CA_n25A-n41A-n41A-n66A,
CA_n25A-n41A-n41A-n71A, CA_n25A-n41A-n41A-n77A, CA_n25A-n41A-n66A-n71A,
CA_n25A-n48A-n48A-n66A, CA_n41A-n41A-n66A-n71A, CA_n41A-n41A-n66A-n77A,
CA_n41A-n41A-n71A-n77A, CA_n26A-n66A, CA_n26A-n70A, CA_n29A-n70A, CA_n29A-n71A,
CA_n66A-n70A, CA_n70A-n71A, CA_n70A-n77A, CA_n26A-n66A-n70A, CA_n29A-n66A-n70A,
CA_n29A-n70A-n71A, CA_n48A-n48A-n70A, CA_n48A-n48A-n77A, CA_n48A-n66A-n66A,
CA_n48A-n66A-n70A, CA_n48B-n70A, CA_n66A-n66A-n70A, CA_n66A-n66A-n71A,
CA_n66A-n66A-n77A, CA_n66A-n70A-n71A, CA_n66A-n70A-n77A, CA_n70A-n71A-n71A,
CA_n71A-n71A-n77A, CA_n48A-n48A-n48A, CA_n29A-n66A-n66A-n70A, CA_n66A-n66A-n70A-n71A,
CA_n71A-n66A, CA_n70A-n29A, CA_n66A-n29A, CA_n71A-n29A, CA_n71A-n66A-n66A,
CA_n66A-n66A-n29A, CA_n70A-n66A-n29A, CA_n70A-n29A-n66A-n66A, CA_n26A-n66A-n66A-n70A,
CA_n2A-n77(2A), CA_n12A-n77(2A), CA_n5A-n77(2A), CA_n14A-n77(2A), CA_n66A-n77(2A),
CA_n30A-n77(2A), CA_n2A-n12A-n77A, CA_n12A-n30A-n77A, CA_n12A-n66A-n77A,
CA_n5A-n30A-n77A, CA_n2A-n14A-n77A, CA_n2A-n2A-n77A, CA_n14A-n30A-n77A,
CA_n14A-n66A-n77A, CA_n2A-n30A-n77A, CA_n30A-n66A-n77A, CA_n2A-n12A-n77(2A),
CA_n2A-n5A-n77(2A), CA_n12A-n30A-n77(2A), CA_n5A-n66A-n77(2A), CA_n12A-n66A-n77(2A),
CA_n5A-n30A-n77(2A), CA_n2A-n2A-n77(2A), CA_n2A-n14A-n77(2A), CA_n2A-n66A-n77(2A),
CA_n14A-n30A-n77(2A), CA_n2A-n30A-n77(2A), CA_n14A-n66A-n77(2A), CA_n66A-n66A-n77(2A),
CA_n30A-n66A-n77(2A), CA_n2-n5A-n66A-n77A, CA_n2-n5A-n30A-n77A, CA_n5-n30A-n66A-n77A,
CA_n14A-n30A-n66A-n77A, CA_n14A-n66A-n66A-n77A, CA_n2A-n2A-n14A-n77A,
CA_n2A-n2A-n30A-n77A, CA_n2A-n2A-n5A-n77A, CA_n2A-n2A-n66A-n77A, CA_n2A-n14A-n30A-n77A,
CA_n2A-n14A-n66A-n77A, CA_n2A-n5A-n30A-n77A, CA_n2A-n5A-n66A-n77A, CA_n2A-n66A-n66A-n77A,
CA_n30A-n66A-n66A-n77A, CA_n5A-n30A-n66A-n77A, CA_n5A-n66A-n66A-n77A,
CA_n41A-n66A-n71A-n77A, CA_n25A-n41A-n66A-n77A, CA_n25A-n41A-n71A-n77A,
CA_n41A-n41A-n71A-n71A, CA_n41C-n71-n71A, CA_n25A-n25A-n41A-n77A, CA_n25A-n25A-n41C,
CA_n25A-n25A-n41A-n41A, CA_n41A-n41A-n66A-n66A, CA_n41C-n66A-n66A, CA_n41A-n71B-n77A,
CA_n41A-n71A-n71A-n77A, CA_n25A-n66A-n77(2A), CA_n25A-n25A-n77(2A), CA_n71B-n77(2A),
CA_n25A-n71A-n77(2A), CA_n25A-n66A-n71A-n77A, CA_n25A-n25A-n41A-n66A, CA_n25A-n41A-n71B,
CA_n25A-n41A-n66A-n66A, CA_n25A-n41A-n71A-n71A, CA_n25A-n71B-n77A,
CA_n25A-n71A-n71A-n77A, CA_n25A-n25A-n41A-n71A, CA_n25A-n25A-n71A-n77A,
CA_n41A-n66A-n71A-n71A, CA_n41A-n66A-n71B, CA_n41A-n66A-n66A-n71A, CA_n66A-n71B-n77A,
CA_n66A-n71A-n71A-n77A, CA_n66A-n66A-n71A-n77A, CA_n25A-n25A-n66A-n77A,
CA_n25A-n66A-n66A-n77A, CA_n41C-n66A-n77A, CA_n41A-n66A-n77(2A), CA_n25A-n41A-n77(2A),
CA_n41A-n71A-n77(2A), CA_n48A-n48A-n66A-n77A, CA_n25A-n25A-n66A-n66A,
CA_n25A-n25A-n71A-n71A, CA_n25A-n25A-n71B, CA_n66A-n66A-n71B, CA_n66A-n66A-n71A-n71A,
CA_n25A-n66A-n71A-n71A, CA_n25A-n66A-n71B, CA_n25A-n25A-n66A-n71A,
CA_n25A-n66A-n66A-n77A, CA_n41C-n66A-n77A, CA_n41A-n66A-n77(2A), CA_n25A-n41A-n77(2A),
CA_n41A-n71A-n77(2A), CA_n48A-n48A-n66A-n77A, CA_n25A-n25A-n66A-n66A,
CA_n25A-n25A-n71A-n71A, CA_n25A-n25A-n71B, CA_n66A-n66A-n71B, CA_n66A-n66A-n71A-n71A,
CA_n25A-n66A-n71A-n71A, CA_n25A-n66A-n71B, CA_n25A-n25A-n66A-n71A,
CA_n25A-n66A-n66A-n77A, CA_n41C-n48A, CA_n41A-n41A-n48A, CA_n41A-n48C,
CA_n41A-n48B, CA_n41A-n48A-n48A, CA_n48A-n48A-n66A-n66A, CA_n48B-n66A-n71A,
CA_n48B-n66A-n66A, CA_n48B-n71A-n71A, CA_n48A-n48A-n71A-n71A, CA_n48A-n48A-n66A-n71A,
CA_n5A-n5A-n66A, CA_n2A-n2A-n77C, CA_n2A-n48(2A), CA_n2A-n48(2A)-n66A, CA_n2A-n48(2A)-n77A,
CA_n2A-n48A-n66A, CA_n2A-n48A-n66A-n77A, CA_n2A-n48B-n66A, CA_n2A-n5A-n48(2A),
CA_n2A-n5A-n48A, CA_n2A-n5A-n48A-n66A, CA_n2A-n5A-n48A-n77A, CA_n2A-n5A-n48B,
CA_n5(2A)-n77A, CA_n5(2A)-n77C, CA_n5A-n48(2A), CA_n5A-n48(2A)-n66A, CA_n5A-n48(2A)-n77A,
CA_n5A-n48A-n66A, CA_n5A-n48A-n66A-n77A, CA_n5A-n48B-n66A, CA_n66(2A)-n77C,
CA_n48(2A)-n77C, CA_n2A-n48A-n48B, CA_n2A-n48A-n48C, CA_n48A-n48B-n66A,
CA_n48A-n48C-n66A, CA_n5A-n48A-n48B, CA_n48A-n48B-n77A, CA_n48B-n48A-n77A,
CA_n12A-n12A-n41A, CA_n12A-n12A-n48A, CA_n12A-n41A-n48A, CA_n12A-n12A-n41A-n48A

**5G EN-DC**

DC_14A_n5A, DC_30A-5A_n5A, DC_66A-5A_n5A, DC_2A-29A-66A-66A_n2A, DC_2A-66A-5A_n5A,
DC_2A-30A-5A_n5A, DC_30A-66A-5A_n5A, DC_66A-66A-5A_n5A, DC_2A-2A-14A-30A_n77A,
DC_2A-2A-30A-5A_n5A, DC_2A-2A-66A-5A_n5A, DC_2A-30A-66A-5A_n5A, DC_2A-66A-66A-5A_n5A,
DC_5A-7C-66A-66A_n78A, DC_2A-66A_n41C, DC_2C-66A_n41A, DC_2A_n2A, DC_2A_n5A,
DC_2A_n7A, DC_2A_n12A, DC_2A_n25A, DC_2A_n30A, DC_2A_n38A, DC_2A_n41A, DC_2A_n41C,
DC_2C_n41A, DC_2A_n48A, DC_2A_n48B, DC_2A_n66A, DC_2A_n71A, DC_2A_n71B, DC_2C_n71A,
DC_2A_n77A, DC_2A_n77C, DC_2A_n78A, DC_4A_n2A, DC_4A_n7A, DC_4A_n38A, DC_4A_n41A,
DC_4A_n66A, DC_4A_n71A, DC_4A_n78A, DC_5A_n2A, DC_5B_n2A, DC_5A_n5A, DC_5A_n7A,
DC_5A_n30A, DC_5A_n38A, DC_5A_n41A, DC_5A_n48A, DC_5A_n48B, DC_5A_n66A, DC_5B_n66A,
DC_5A_n71A, DC_5A_n77A, DC_5A_n77C, DC_5A_n78A, DC_7A_n2A, DC_7C_n2A, DC_7A_n5A,
DC_7C_n5A, DC_7A_n7A, DC_7A_n12A, DC_7A_n25A, DC_7C_n25A, DC_7A_n66A, DC_7C_n66A,
DC_7A_n71A, DC_7A_n77A, DC_7C_n77A, DC_7A_n78A, DC_7A_n78C, DC_7C_n78A, DC_12A_n2A,
DC_12A_n5A, DC_12A_n7A, DC_12A_n25A, DC_12A_n30A, DC_12A_n38A, DC_12A_n41A,
DC_12A_n66A, DC_12A_n77A, DC_12A_n78A, DC_13A_n2A, DC_13A_n5A, DC_13A_n7A,
DC_13A_n25A, DC_13A_n48A, DC_13A_n48B, DC_13A_n66A, DC_13A_n77A, DC_13A_n77C,
DC_13A_n78A, DC_14A_n2A, DC_14A_n30A, DC_14A_n66A, DC_14A_n77A, DC_25A_n41A,
DC_25A_n77A, DC_25A_n78A, DC_26A_n25A, DC_26A_n41A, DC_26A_n78A, DC_30A_n2A,
DC_30A_n5A, DC_30A_n12A, DC_30A_n66A, DC_30A_n77A, DC_38A_n78A, DC_41A_n41A,
DC_41C_n41A, DC_41D_n41A, DC_41A_n77A, DC_41C_n77A, DC_41A_n78A, DC_41C_n78A,
DC_41D_n78A, DC_42A_n77A, DC_42C_n77A, DC_48A_n2A, DC_48C_n2A, DC_48D_n2A,
DC_48E_n2A, DC_48A_n5A, DC_48C_n5A, DC_48D_n5A, DC_48E_n5A, DC_48A_n12A, DC_48A_n25A,
DC_48C_n25A, DC_48D_n25A, DC_48A_n48A, DC_48A_n66A, DC_48C_n66A, DC_48D_n66A,
DC_48E_n66A, DC_48A_n71A, DC_48C_n71A, DC_66A_n2A, DC_66B_n2A, DC_66C_n2A,
DC_66A_n5A, DC_66B_n5A, DC_66C_n5A, DC_66A_n7A, DC_66A_n12A, DC_66A_n25A,
DC_66A_n30A, DC_66A_n38A, DC_66A_n41A, DC_66A_n41C, DC_66A_n48A, DC_66A_n48B,
DC_66A_n66A, DC_66B_n66A, DC_66A_n71A, DC_66A_n71B, DC_66C_n71A, DC_66A_n77A,
DC_66A_n77C, DC_66A_n78A, DC_71A_n2A, DC_71A_n7A, DC_71A_n25A, DC_71A_n38A,
DC_71A_n41A, DC_71A_n66A, DC_71A_n78A, DC_2A-2A_n7A, DC_2A-2A_n12A, DC_2A-2A_n30A,
DC_2A-2A_n38A, DC_2A-2A_n41A, DC_2A-2A_n71A, DC_2A-2A_n77C, DC_2A-2A_n78A,
DC_2A-4A_n38A, DC_2A-4A_n41A, DC_2A-4A_n71A, DC_2A-4A_n78A, DC_2A-5A_n7A,
DC_2A-5A_n30A, DC_2A-5A_n41A, DC_2A-5A_n48A, DC_2A-5A_n48B, DC_2A-5A_n77C,
DC_2A-5A_n78A, DC_2A-7A_n2A, DC_2A-7A_n5A, DC_2A-7C_n5A, DC_2A-7A_n7A, DC_2A-7A_n12A,
DC_2A-7A_n25A, DC_2A-7C_n25A, DC_2A-7A_n66A, DC_2A-7C_n66A, DC_2A-7A_n77A,
DC_2A-7C_n77A, DC_2A-7A_n78A, DC_2A-7C_n78A, DC_2A-12A_n7A, DC_2A-12A_n30A,
DC_2A-12A_n41A, DC_2A-12A_n78A, DC_2A-13A_n2A, DC_2A-13A_n5A, DC_2A-13A_n25A,
DC_2A-13A_n48A, DC_2A-13A_n48B, DC_2A-13A_n77C, DC_2A-14A_n30A, DC_2A-29A_n30A,
DC_2A-29A_n78A, DC_2A-30A_n12A, DC_2A-48A_n2A, DC_2A-48D_n2A, DC_2A-48E_n2A,
DC_2A-48A_n12A, DC_2A-48A_n71A, DC_2A-48A_n77C, DC_2A-48C_n77C, DC_2A-48D_n77C,
DC_2A-66A_n7A, DC_2A-66A_n12A, DC_2A-66A_n30A, DC_2A-66A_n38A, DC_2A-66A_n41A,
DC_2A-66A_n48A, DC_2A-66A_n48B, DC_2A-66A_n77C, DC_2A-71A_n2A, DC_2A-71A_n7A,
DC_2A-71A_n38A, DC_2A-71A_n41A, DC_2A-71A_n66A, DC_2A-71A_n78A, DC_5A-5A_n2A,
DC_5A-5A_n66A, DC_5A-7A_n2A, DC_5A-7A_n7A, DC_5A-7A_n66A, DC_5A-7C_n66A,
DC_5A-7C_n78A, DC_5A-13A_n2A, DC_5A-13A_n66A, DC_5A-13A_n77A, DC_5A-13A_n77C,
DC_5A-48A_n77A, DC_5A-48A_n77C, DC_5A-48C_n77A, DC_5A-48C_n77C, DC_5A-48D_n77A,
DC_5A-48D_n77C, DC_5A-66A_n7A, DC_5A-66A_n25A, DC_5A-66A_n48A, DC_5A-66A_n48B,
DC_5A-66A_n77C, DC_5A-66A_n78A, DC_7A-7A_n25A, DC_7A-7A_n66A,
DC_7A-7A_n77A, DC_7A-12A_n2A, DC_7A-12A_n66A, DC_7A-12A_n78A, DC_7A-13A_n25A,
DC_7C-13A_n25A, DC_7A-13A_n66A, DC_7C-13A_n66A, DC_7A-25A_n77A, DC_7C-25A_n77A,
DC_7A-25A_n78A, DC_7C-25A_n78A, DC_7A-29A_n78A, DC_7C-29A_n78A, DC_7A-66A_n2A,
DC_7A-66A_n5A, DC_7C-66A_n5A, DC_7A-66A_n7A, DC_7A-66A_n12A, DC_7A-66A_n25A,
DC_7C-66A_n25A, DC_7A-66A_n66A, DC_7C-66A_n66A, DC_7A-66A_n71A, DC_7A-66A_n77A,
DC_7C-66A_n77A, DC_7A-66A_n78A, DC_7C-66A_n78A, DC_12A-30A_n5A, DC_12A-66A_n5A,
DC_12A-66A_n7A, DC_12A-66A_n30A, DC_12A-66A_n41A, DC_12A-66A_n78A, DC_13A-48A_n77C,
DC_13A-48C_n77A, DC_13A-48C_n77C, DC_13A-48D_n77A, DC_13A-48D_n77C, DC_13A-66A_n5A,
DC_13A-66A_n48A, DC_13A-66A_n77C, DC_25A-25A_n41A, DC_25A-41A_n41A, DC_25A-41C_n41A,
DC_25A-66A_n77A, DC_25A-66A_n78A, DC_29A-66A_n30A, DC_29A-66A_n78A, DC_30A-66A_n12A,
DC_41A-42A_n77A, DC_41A-42C_n77A, DC_41C-42A_n77A, DC_41C-42C_n77A, DC_48A-48A_n71A,
DC_48A-66A_n2A, DC_48A-66A_n12A, DC_48A-66A_n66A, DC_48A-66A_n71A, DC_48A-66A_n77C,
DC_48C-66A_n77C, DC_48D-66A_n77C, DC_66A-66A_n7A, DC_66A-66A_n12A, DC_66A-66A_n30A,
DC_66A-66A_n38A, DC_66A-66A_n48A, DC_66A-66A_n48B, DC_66A-66A_n77C, DC_66A-71A_n2A,
DC_66A-71A_n7A, DC_66A-71A_n25A, DC_66A-71A_n38A, DC_66A-71A_n41A, DC_66A-71A_n66A,



DC_66A-71A_n78A, DC_2A-2A_n5A, DC_2A-2A_n66A, DC_2A-2A_n77A, DC_2A_n2A-n77A,
DC_2A-5A_n2A, DC_2A-5B_n2A, DC_2A-5A_n5A, DC_2A-5A_n66A, DC_2A-5B_n66A,
DC_2A_n5A-n77A, DC_2A-5A_n77A, DC_2A-12A_n2A, DC_2A-12A_n66A, DC_2A-12A_n77A,
DC_2A-13A_n66A, DC_2A-13A_n77A, DC_2A-14A_n2A, DC_2A-14A_n66A, DC_2A-14A_n77A,
DC_2A-29A_n2A, DC_2A-29A_n66A, DC_2A-29A_n77A, DC_2A-30A_n2A, DC_2A-30A_n5A,
DC_2A-30A_n66A, DC_2A-30A_n77A, DC_2A_n7A-n78A, DC_2A_n38A-n66A, DC_2A_n38A-n78A,
DC_2A_n41A-n41A, DC_2A_n41A-n66A, DC_2A_n41A-n71A, DC_2A-48C_n2A, DC_2A-48D_n5A,
DC_2A-48E_n5A, DC_2A-48A_n5A, DC_2A-48C_n5A, DC_2A-48A_n48A, DC_2A_n48A-n66A,
DC_2A-48D_n66A, DC_2A-48E_n66A, DC_2A-48A_n66A, DC_2A-48C_n66A, DC_2A-48A_n77A,
DC_2A-48D_n77A, DC_2A-48E_n77A, DC_2A-48C_n77A, DC_2A-66A_n2A, DC_2A-66A_n5A,
DC_2A-66B_n5A, DC_2A-66A_n25A, DC_2A-66A-n41C, DC_2A-66A_n66A, DC_2A-66B_n66A,
DC_2A_n66A-n71A, DC_2A-66A_n71B, DC_2A-66A_n71A, DC_2A-66C_n71A, DC_2C-66A_n71A,
DC_2A_n66A-n77A, DC_2A-66A_n77A, DC_2A-66A_n78A, DC_2A-71A_n71A, DC_2A_n66A-n78A,
DC_2A_n71A-n78A, DC_2A_n77(2A), DC_2A_n78(2A), DC_4A_n78(2A), DC_5A_n2A-n77A,
DC_5A-7A_n78A, DC_5A-30A_n2A, DC_5A-30A_n5A, DC_5A-30A_n66A, DC_5A-30A_n77A,
DC_5B-66A_n2A, DC_5A-66A_n2A, DC_5A-66B_n2A, DC_5A-66A_n5A, DC_5A-66A_n30A,
DC_5A-66A_n66A, DC_5B-66A_n66A, DC_5A_n5A-n77A, DC_5A_n7A-n78A, DC_5A_n38A-n66A,
DC_5A_n66A-n77A, DC_5A-66A_n77A, DC_5A_n66A-n78A, DC_5A_n77(2A), DC_5A_n78(2A),
DC_7A_n2A-n78A, DC_7A_n5A-n78A, DC_7C_n5A-n78A, DC_7A-7A_n78A, DC_7A-7A_n78C,
DC_7A_n66A-n77A, DC_7C_n66A-n77A, DC_7A_n66A-n78A, DC_7C_n66A-n78A, DC_7A_n71A-n78A,
DC_7A_n77(2A), DC_7C_n77(2A), DC_7A_n78(2A), DC_7C_n78(2A), DC_12A-30A_n2A,
DC_12A-30A_n66A, DC_12A-30A_n77A, DC_12A-66A_n2A, DC_12A-66A_n25A, DC_12A-66A_n66A,
DC_12A-66A_n77A, DC_12A_n2A-n38A, DC_12A_n2A-n41A, DC_12A_n7A-n78A, DC_12A_n66A-n78A,
DC_12A_n77(2A), DC_12A_n78(2A), DC_13A_n2A-n77A, DC_13A-48A_n2A, DC_13A-48C_n2A,
DC_13A-48D_n2A, DC_13A-48E_n2A, DC_13A-48A_n66A, DC_13A-48C_n66A, DC_13A-48D_n66A,
DC_13A-48E_n66A, DC_13A-48A_n77A, DC_13A-66A_n2A, DC_13A-66B_n2A, DC_13A-66C_n2A,
DC_13A-66A_n66A, DC_13A-66B_n66A, DC_13A_n5A_n77A, DC_13A_n7A-n78A, DC_13A_n48A-n66A,
DC_13A_n66A-n77A, DC_13A-66A_n77A, DC_14A-30A_n2A, DC_14A-30A_n66A, DC_14A-30A_n77A,
DC_14A-66A_n2A, DC_14A-66A_n30A, DC_14A-66A_n66A, DC_14A-66A_n77A, DC_13A_n78(2A),
DC_14A_n77(2A), DC_29A-30A_n2A, DC_29A-30A_n66A, DC_29A-30A_n77A, DC_29A-66A_n2A,
DC_29A-66A_n66A, DC_29A-66A_n77A, DC_30A-66A_n2A, DC_30A-66A_n5A, DC_30A-66A_n66A,
DC_30A-66A_n77A, DC_30A_n5A-n77A, DC_30A_n77(2A), DC_41A_n77(2A), DC_41C_n77(2A),
DC_41A_n78(2A), DC_48A_n25A-n48A, DC_48A_n48A-n66A, DC_48C-66A_n2A, DC_48D-66A_n2A,
DC_48E-66A_n2A, DC_48A-66A_n5A, DC_48C-66A_n5A, DC_48D-66A_n5A, DC_48E-66A_n5A,
DC_48A-66A_n25A, DC_48C-66A_n25A, DC_48D-66A_n25A, DC_48A-66A_n48A, DC_48C-66A_n66A,
DC_48D-66A_n66A, DC_48E-66A_n66A, DC_48A-66A_n77A, DC_48C-66A_n77A, DC_48D-66A_n77A,
DC_48E-66A_n77A, DC_66A_n2A-n38A, DC_66A_n2A-n41A, DC_66A_n2A-n77A, DC_66A_n5A-n48A,
DC_66A_n5A-n77A, DC_66A_n7A-n78A, DC_66A_n25A-n41A, DC_66A_n25A-n48A,
DC_66A_n25A-n71A, DC_66A_n38A-n78A, DC_66A_n41A-n41A, DC_66A_n41A-n71A,
DC_66A-66A_n2A, DC_66A-66A_n5A, DC_66A-66A_n71A, DC_66A-66A_n77A, DC_66A_n66A-n77A,
DC_66A-66A_n78A, DC_66A-71A_n71A, DC_66C-71A_n71A, DC_66A_n66A-n78A, DC_66A_n71A-n78A,
DC_66A_n77(2A), DC_66A_n78(2A), DC_71A_n2A-n41A, DC_71A_n2A-n78A, DC_71A_n38A-n66A,
DC_71A_n38A-n78A, DC_71A_n66A-n78A, DC_2A-2A-5A_n7A, DC_2A-2A-5A_n30A,
DC_2A-2A-5A_n77C, DC_2A-2A-7A_n12A, DC_2A-2A-7A_n66A, DC_2A-2A-7C_n66A,
DC_2A-2A-7A_n71A, DC_2A-2A-7A_n78A, DC_2A-2A-12A_n7A, DC_2A-2A-12A_n41A,
DC_2A-2A-12A_n78A, DC_2A-2A-13A_n5A, DC_2A-2A-13A_n66A, DC_2A-2A-13A_n77C,
DC_2A-2A-14A_n66A, DC_2A-2A-29A_n30A, DC_2A-2A-30A_n12A, DC_2A-2A-66A_n7A,
DC_2A-2A-66A_n12A, DC_2A-2A-66A_n30A, DC_2A-2A-66A_n38A, DC_2A-2A-66A_n41A,
DC_2A-2A-66A_n71A, DC_2A-2A-66A_n77C, DC_2A-2A-66A_n78A, DC_2A-2A-71A_n7A,
DC_2A-2A-71A_n38A, DC_2A-2A-71A_n41A, DC_2A-2A-71A_n66A, DC_2A-2A-71A_n78A,
DC_2A-5A-5A_n2A, DC_2A-5A-5A_n66A, DC_2A-5A-7A_n2A, DC_2A-5A-7A_n66A, DC_2A-5A-7C_n66A,
DC_2A-5A-7A_n78A, DC_2A-5A-48A_n77A, DC_2A-5A-48C_n77A, DC_2A-5A-48C_n77C,
DC_2A-5A-66A_n7A, DC_2A-5A-66A_n30A, DC_2A-5A-66A_n48A, DC_2A-5A-66A_n48B,
DC_2A-5A-66A_n77C, DC_2A-7A-7A_n5A, DC_2A-7A-7A_n25A, DC_2A-7A-7A_n66A,
DC_2A-7A-7A_n77A, DC_2A-7A-7A_n78A, DC_2A-7A-12A_n2A, DC_2A-7A-12A_n66A,
DC_2A-7A-12A_n78A, DC_2A-7A-13A_n66A, DC_2A-7C-13A_n66A, DC_2A-7A-29A_n78A,
DC_2A-7A-66A_n2A, DC_2A-7A-66A_n12A, DC_2A-7A-66A_n66A, DC_2A-7C-66A_n66A,
DC_2A-7A-66A_n71A, DC_2A-7A-66A_n77A, DC_2A-7C-66A_n77A, DC_2A-7A-66A_n78A,
DC_2A-7C-66A_n78A, DC_2A-12A-66A_n7A, DC_2A-12A-66A_n30A, DC_2A-12A-66A_n41A,
DC_2A-12A-66A_n78A, DC_2A-13A-48A_n77C, DC_2A-13A-48C_n77A, DC_2A-13A-48C_n77C,
DC_2A-13A-66A_n2A, DC_2A-13A-66A_n5A, DC_2A-13A-66A_n48A, DC_2A-13A-66A_n48B,
DC_2A-13A-66A_n77C, DC_2A-14A-66A_n30A, DC_2A-29A-66A_n30A, DC_2A-29A-66A_n78A,
DC_2A-30A-66A_n12A, DC_2A-48A-66A_n2A, DC_2A-48D-66A_n2A, DC_2A-48A-66A_n12A,



DC_2A-48A-66A_n66A, DC_2A-48D-66A_n66A, DC_2A-48A-66A_n71A, DC_2A-48A-66A_n77C,
DC_2A-48C-66A_n77C, DC_2A-66A-66A_n7A, DC_2A-66A-66A_n12A, DC_2A-66A-66A_n30A,
DC_2A-66A-66A_n38A, DC_2A-66A-66A_n48A, DC_2A-66A-66A_n48B, DC_2A-66A-66A_n77C,
DC_2A-66A-66A_n78A, DC_2A-66A-71A_n2A, DC_2A-66A-71A_n7A, DC_2A-66A-71A_n38A,
DC_2A-66A-71A_n41A, DC_2A-66A-71A_n66A, DC_2A-66A-71A_n78A, DC_5A-5A-66A_n2A,
DC_5A-5A-66A_n66A, DC_5A-7A-7A_n66A, DC_5A-7A-7A_n78A, DC_5A-7A-66A_n2A,
DC_5A-7A-66A_n66A, DC_5A-7C-66A_n66A, DC_5A-7A-66A_n78A, DC_5A-7C-66A_n78A,
DC_5A-48A-66A_n77A, DC_5A-48C-66A_n77A, DC_5A-48C-66A_n77C, DC_5A-66A-66A_n7A,
DC_5A-66A-66A_n48A, DC_5A-66A-66A_n48B, DC_5A-66A-66A_n77C, DC_5A-66A-66A_n78A,
DC_7A-7A-13A_n25A, DC_7A-7A-13A_n66A, DC_7A-7A-29A_n78A, DC_7A-7A-66A_n5A,
DC_7A-7A-66A_n25A, DC_7A-7A-66A_n66A, DC_7A-7A-66A_n77A, DC_7A-7A-66A_n78A,
DC_7A-12A-66A_n2A, DC_7A-12A-66A_n78A, DC_7A-13A-66A_n66A, DC_7C-13A-66A_n66A,
DC_7A-25A-66A_n77A, DC_7C-25A-66A_n77A, DC_7A-25A-66A_n78A, DC_7A-29A-66A_n78A,
DC_7A-66A-66A_n5A, DC_7C-66A-66A_n5A, DC_7A-66A-66A_n71A, DC_7A-66A-66A_n78A,
DC_7C-66A-66A_n78A, DC_12A-30A-66A_n5A, DC_12A-66A-66A_n5A, DC_12A-66A-66A_n30A,
DC_13A-48A-66A_n77C, DC_13A-48C-66A_n77A, DC_13A-48C-66A_n77C, DC_13A-66A-66A_n5A,
DC_13A-66A-66A_n48A, DC_13A-66A-66A_n48B, DC_13A-66A-66A_n77C, DC_14A-66A-66A_n2A,
DC_29A-66A-66A_n30A, DC_30A-66A-66A_n12A, DC_2A-2A-5A_n5A, DC_2A-2A-5A_n66A,
DC_2A-2A_n5A-n77A, DC_2A-2A-5A_n77A, DC_2A-2A-12A_n30A, DC_2A-2A-12A_n66A,
DC_2A-2A-12A_n77A, DC_2A-2A-13A_n77A, DC_2A-2A-14A_n30A, DC_2A-2A-14A_n77A,
DC_2A-2A-29A_n66A, DC_2A-2A-29A_n77A, DC_2A-2A-30A_n5A, DC_2A-2A-30A_n66A,
DC_2A-2A-30A_n77A, DC_2A-2A-66A_n5A, DC_2A-2A-66A_n66A, DC_2A-2A-66A_n77A,
DC_2A-2A_n66A-n77A, DC_2A-2A_n77(2A), DC_2A-5A_n2A-n77A, DC_2A-5A-30A_n2A,
DC_2A-5A-30A_n5A, DC_2A-5A-30A_n66A, DC_2A-5A-30A_n77A, DC_2A-5A-66A_n2A,
DC_2A-5B-66A_n2A, DC_2A-5A-66A_n5A, DC_2A-5A-66A_n66A, DC_2A-5B-66A_n66A,
DC_2A-5A-66A_n77A, DC_2A-5A_n5A-n77A, DC_2A-5A_n66A-n77A, DC_2A-5A_n77(2A),
DC_2A-12A-30A_n2A, DC_2A-12A-30A_n66A, DC_2A-12A-30A_n77A, DC_2A-12A-66A_n2A,
DC_2A-12A-66A_n66A, DC_2A-12A-66A_n77A, DC_2A-5A_n78(2A), DC_2A-7A_n66A-n77A,
DC_2A-7C_n66A-n77A, DC_2A-7A_n66A-n78A, DC_2A-7C_n66A-n78A, DC_2A-7A_n77(2A),
DC_2A-7C_n77(2A), DC_2A-7A_n78(2A), DC_2A-7C_n78(2A), DC_2A-12A_n77(2A),
DC_2A-12A_n78(2A), DC_2A-13A_n2A-n77A, DC_2A-13A-48A_n77A, DC_2A-13A-66A_n66A,
DC_2A-13A-66B_n66A, DC_2A-13A-66A_n77A, DC_2A-13A_n5A-n77A, DC_2A-13A_n66A-n77A,
DC_2A-14A-30A_n2A, DC_2A-14A-30A_n66A, DC_2A-14A-30A_n77A, DC_2A-14A-66A_n2A,
DC_2A-14A-66A_n66A, DC_2A-14A-66A_n77A, DC_2A-14A_n77(2A), DC_2A-29A-30A_n2A,
DC_2A-29A-30A_n66A, DC_2A-29A-30A_n77A, DC_2A-29A-30A_n77C, DC_2A-29A-66A_n2A,
DC_2A-29A-66A_n66A, DC_2A-29A-66A_n77A, DC_2A-29A_n77(2A), DC_2A-30A-66A_n2A,
DC_2A-30A-66A_n5A, DC_2A-30A-66A_n66A, DC_2A-30A-66A_n77A, DC_2A-30A_n5A-n77A,
DC_2A-30A_n77(2A), DC_2A-48A_n48A-n66A, DC_2A-48C-66A_n2A, DC_2A-48A-66A_n5A,
DC_2A-48C-66A_n5A, DC_2A-48D-66A_n5A, DC_2A-48C-66A_n66A, DC_2A-48A-66A_n77A,
DC_2A-48C-66A_n77A, DC_2A-48D-66A_n77A, DC_2A-66A_n2A-n77A, DC_2A-66A_n5A-n77A,
DC_2A-66A_n38A-n78A, DC_2A-66A_n41A-n41A, DC_2A-66A_n41A-n71A, DC_2A-66A-66A_n2A,
DC_2A-66A-66A_n5A, DC_2A-66A-66A_n71A, DC_2A-66A-66A_n77A, DC_2A-66A_n66A-n77A,
DC_2A-66A-71A_n71A, DC_2A-66C-71A_n71A, DC_2A-66A_n66A-n78A, DC_2A-66A_n77(2A),
DC_2A-66A_n78(2A), DC_5A-30A-66A_n2A, DC_5A-30A-66A_n5A, DC_5A-30A-66A_n66A,
DC_5A-30A-66A_n77A, DC_5A-30A_n77(2A), DC_5A-66A_n2A-n77A, DC_5A-66A-66A_n2A,
DC_5B-66A-66A_n2A, DC_5A-66A-66A_n5A, DC_5A-66A-66A_n30A, DC_5A-66A_n5A-n77A,
DC_5A-66A_n66A-n77A, DC_5A-66A-66A_n77A, DC_5A-66A_n77(2A), DC_5A-66A_n78(2A),
DC_7A-7A_n66A-n77A, DC_7A-7A_n66A-n78A, DC_7A-66A_n66A-n77A, DC_7C-66A_n66A-n77A,
DC_7A-66A_n66A-n78A, DC_7C-66A_n66A-n78A, DC_7A-66A_n77(2A), DC_7C-66A_n77(2A),
DC_7A-66A_n78(2A), DC_7C-66A_n78(2A), DC_12A-30A-66A_n2A, DC_12A-30A-66A_n66A,
DC_12A-30A-66A_n77A, DC_12A-30A_n77(2A), DC_12A-66A-66A_n2A, DC_12A-66A-66A_n77A,
DC_12A-66A_n77(2A), DC_13A-48A-66A_n77A, DC_13A-66A_n2A-n77A, DC_13A-66A-66A_n2A,
DC_13A-66A_n5A-n77A, DC_13A-66A_n66A-n77A, DC_13A-66A-66A_n77A, DC_14A-30A-66A_n2A,
DC_14A-30A-66A_n66A, DC_14A-30A-66A_n77A, DC_14A-30A_n77(2A), DC_14A-66A-66A_n30A,
DC_14A-66A-66A_n77A, DC_14A-66A_n77(2A), DC_29A-30A-66A_n2A, DC_29A-30A-66A_n66A,
DC_29A-30A-66A_n77A, DC_29A-30A_n77(2A), DC_29A-66A-66A_n2A, DC_29A-66A-66A_n77A,
DC_29A-66A_n77(2A), DC_30A-66A-66A_n2A, DC_30A-66A-66A_n5A, DC_30A-66A-66A_n77A,
DC_30A-66A_n5A-n77A, DC_30A-66A_n77(2A), DC_48A-66A_n25A-n48A, DC_66A-66A_n2A-n77A,
DC_66A-66A_n5A-n77A, DC_66A-66A_n7A-n78A, DC_66A-66A_n77(2A), DC_66A-66A_n78(2A),
DC_2A-2A-5A-30A_n5A, DC_2A-2A-5A-66A_n30A, DC_2A-2A-5A-66A_n66A, DC_2A-2A-5A-66A_n77C,
DC_2A-2A-7A-12A_n66A, DC_2A-2A-7A-66A_n12A, DC_2A-2A-7A-66A_n71A, DC_2A-2A-12A-66A_n7A,
DC_2A-2A-12A-66A_n30A, DC_2A-2A-13A-66A_n5A, DC_2A-2A-13A-66A_n66A,
DC_2A-2A-13A-66A_n77C, DC_2A-2A-14A-30A_n66A, DC_2A-2A-14A-66A_n30A,



DC_2A-2A-14A-66A_n66A, DC_2A-2A-29A-66A_n30A, DC_2A-2A-30A-66A_n12A,
DC_2A-2A-66A-66A_n5A, DC_2A-2A-66A-66A_n12A, DC_2A-2A-66A-66A_n71A,
DC_2A-2A-66A-71A_n41A, DC_2A-2A-66A-71A_n78A, DC_2A-5A-5A-66A_n2A,
DC_2A-5A-5A-66A_n66A, DC_2A-5A-7A-7A_n66A, DC_2A-5A-66A-66A_n2A, DC_2A-5A-66A-66A_n30A,
DC_2A-5A-66A-66A_n77C, DC_2A-7A-7A-13A_n66A, DC_2A-7A-13A-66A_n66A,
DC_2A-12A-66A-66A_n30A, DC_2A-13A-66A-66A_n2A, DC_2A-13A-66A-66A_n5A,
DC_2A-13A-66A-66A_n77C, DC_2A-14A-66A-66A_n2A, DC_2A-14A-66A-66A_n30A,
DC_2A-29A-66A-66A_n30A, DC_2A-30A-66A-66A_n12A, DC_5A-5A-66A-66A_n2A,
DC_5A-7A-66A-66A_n78A, DC_14A-30A-66A-66A_n2A, DC_2A-2A-5A-30A_n66A,
DC_2A-2A-5A-30A_n77A, DC_2A-2A-5A-66A_n5A, DC_2A-2A-5A-66A_n77A, DC_2A-2A-5A_n77(2A),
DC_2A-2A-12A-30A_n66A, DC_2A-2A-12A-30A_n77A, DC_2A-2A-12A-66A_n66A,
DC_2A-2A-12A-66A_n77A, DC_2A-2A-12A_n77(2A), DC_2A-2A-13A_n5A-n77A,
DC_2A-2A-13A_n66A-n77A, DC_2A-2A-13A-66A_n77A, DC_2A-2A-14A-66A_n77A,
DC_2A-2A-14A_n77(2A), DC_2A-2A-29A-30A_n66A, DC_2A-2A-29A-30A_n77A, DC_2A-2A-29A_n77(2A),
DC_2A-2A-30A-66A_n5A, DC_2A-2A-66A_n5A-n77A, DC_2A-5A-30A-66A_n2A,
DC_2A-5A-30A-66A_n66A, DC_2A-5A-30A-66A_n77A, DC_2A-5A-30A_n77(2A),
DC_2A-5A-66A_n2A-n77A, DC_2A-5B-66A-66A_n2A, DC_2A-5A-66A-66A_n5A,
DC_2A-5A-66A-66A_n77A, DC_2A-5A-66A_n5A-n77A, DC_2A-5A-66A_n66A-n77A,
DC_2A-5A-66A_n77(2A), DC_2A-12A-30A-66A_n2A, DC_2A-12A-30A-66A_n66A,
DC_2A-12A-30A-66A_n77A, DC_2A-12A-30A_n77(2A), DC_2A-12A-66A-66A_n2A,
DC_2A-12A-66A-66A_n77A, DC_2A-12A-66A_n77(2A), DC_2A-13A-66A_n2A-n77A,
DC_2A-13A-66A-66A_n77A, DC_2A-13A-66A_n5A-n77A, DC_2A-13A-66A_n66A-n77A,
DC_2A-14A-30A-66A_n2A, DC_2A-14A-30A-66A_n66A, DC_2A-14A-30A-66A_n77A,
DC_2A-14A-30A_n77(2A), DC_2A-14A-66A-66A_n77A, DC_2A-14A-66A_n77(2A),
DC_2A-29A-30A-66A_n2A, DC_2A-29A-30A-66A_n66A, DC_2A-29A-30A-66A_n77A,
DC_2A-29A-30A_n77(2A), DC_2A-29A-66A_n77(2A), DC_2A-30A-66A-66A_n5A,
DC_2A-66A-66A_n5A-n77A, DC_5A-30A-66A-66A_n2A, DC_5A-30A-66A-66A_n77A,
DC_5A-30A-66A_n77(2A), DC_5A-66A-66A_n2A-n77A, DC_5A-66A-66A_n5A-n77A,
DC_5A-66A-66A_n77(2A), DC_12A-30A-66A-66A_n2A, DC_12A-30A-66A-66A_n77A,
DC_12A-30A-66A_n77(2A), DC_12A-66A-66A_n77(2A), DC_13A-66A-66A_n2A-n77A,
DC_14A-30A-66A-66A_n77A, DC_13A-66A-66A_n5A-n77A, DC_14A-30A-66A_n77(2A),
DC_14A-66A-66A_n77(2A), DC_29A-30A-66A-66A_n2A, DC_29A-30A-66A_n77(2A),
DC_29A-66A-66A_n77(2A), DC_2A-2A-5A-66A-66A_n5A, DC_2A-2A-13A-66A-66A_n5A,
DC_2A-5A-5A-66A-66A_n2A, DC_2A-2A-13A-66A_n5A-n77A, DC_2A-5A-66A-66A_n5A-n77A,
DC_2A-13A-66A-66A_n5A-n77A, DC_2A-48A-48A-66A_n5A

Note: The above information was declared by manufacturer.

1.1.6 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
FortiExtenderWAN 50G-AMxxxxxxxxxx	Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only
FORTIEXTENDERWAN-50G-AMxxxxxxxxxx	
FEW-50G-AMxxxxxxxxxx	

Note 1: From the above models, model: FEW-50G-AM was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2020

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Ken Yeh	20.4~21.7 / 58~65	Dec. 19, 2025
Radiated (below 1GHz)	10CH01-CB	Allen Chung	22~23 / 56~57	Jan. 13, 2026~ Jan. 16, 2026
Radiated (above 1GHz)	03CH04-CB	Alex Kuo	21.4~22.6 / 57~61	Dec. 18, 2025
AC Conduction	CO01-CB	Allen Chung	21~22 / 53~54	Jan. 14, 2026~ Jan. 19, 2026

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.9 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
BT-LE(1Mbps)
2402MHz
2440MHz
2480MHz
BT-LE(2Mbps)
2402MHz
2440MHz
2478MHz
2480MHz

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	Normal Link
1	Normal Link_EUT(SMI 1)+BT+GNSS+WWAN mode(LTE CA 2A_71A)+LAN 1 Link+LAN 2 Link+console+Adapter
2	Normal Link_EUT(SMI 2)+BT+GNSS+WWAN mode(LTE CA 2A_71A) +LAN 1 Link+LAN 2 Link+console+Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 4 will follow this same test mode.	
3	Normal Link_EUT(SMI 1)+BT+GNSS+WWAN mode(5G NR CA n5B_n77C) +LAN 1 Link+LAN 2 Link+console +Adapter
4	Normal Link_EUT(SMI 1)+BT+GNSS+WWAN mode(ENDC 14A_n77A)+LAN 1 Link+LAN 2 Link+console+Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	Normal Link_EUT(SMI 1)+BT+GNSS+WWAN mode(LTE CA 2A_71A)+LAN 1 Link+LAN 2 Link+console+PoE
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
After evaluating, and the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	Normal Link_EUT at Z axis(SMI 1)+BT+GNSS+WWAN mode(LTE CA 2A_71A)+LAN 1 Link+LAN 2 Link+console+Adapter
2	Normal Link_EUT at Z axis(SMI 2)+BT+GNSS+WWAN mode(LTE CA 2A_71A)+LAN 1 Link+LAN 2 Link+console+Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~4 will follow this same test mode.	
3	Normal Link_EUT at Z axis(SMI 1)+BT+GNSS+WWAN mode(5G NR CA n5B_n77C)+LAN 1 Link+LAN 2 Link+console+Adapter
4	Normal Link_EUT at Z axis(SMI 1)+BT+GNSS+WWAN mode(ENDC 14A_n77A)+LAN 1 Link+ LAN 2 Link+console+Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	Normal Link_EUT at Z axis(SMI 1)+BT+GNSS+WWAN mode(LTE CA 2A_71A)+LAN 1 Link+ LAN 2 Link+console+PoE
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, and the worst case was found as below. So the measurement will follow this same test configuration.	
1	Place EUT in Y axis for bandedge / Place EUT in Z axis for harmonic

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Bluetooth+WWAN LTE
2	Bluetooth+WWAN 5GNR
Refer to Sporton Test Report No.: FA5D0601 for Co-location RF Exposure Evaluation.	

Note: The PoE is for measurement only, would not be marketed. PoE information as below:

Power	Brand	Model
PoE	PHIHONG	POE30U-ATA



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	APD	WB-24R12FU	INPUT: 100-240V~, 50-60Hz, 0.7A Max. OUTPUT: 12V, 2.0A
Other			
Wall Bracket*1			

2.5 Support Equipment

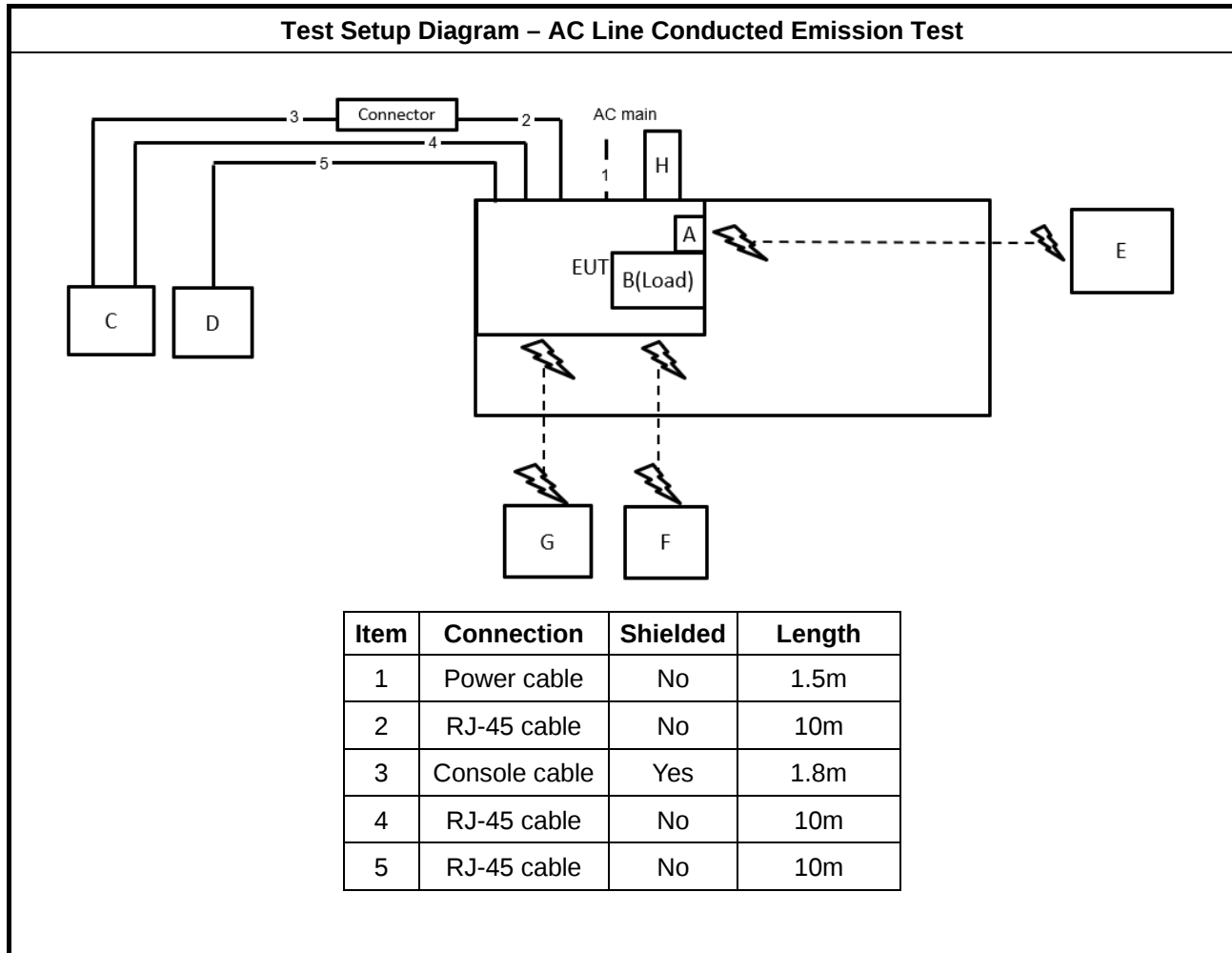
For AC Conduction and Radiated (below 1GHz):

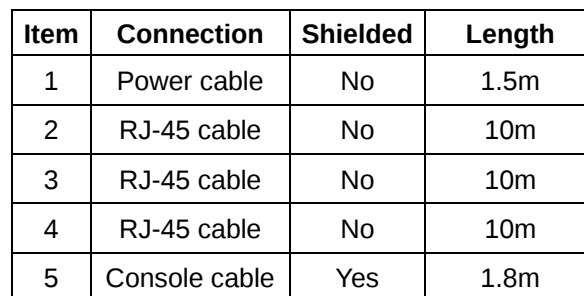
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	SIM Card	Anritsu	N/A	N/A
B	SIM Card	Anritsu	N/A	N/A
C	LAN1 PC	ASUS	S300TA	TX2-RTL8821CE
D	LAN2/PoE PC	ASUS	S300TA	TX2-RTL8821CE
E	WWAN Base station	Anritsu	MT8821C	N/A
F	Wireless Connectivity Tester	R&S	CMW270	N/A
G	GPS Simulator	WELNAVIGATE	GS-100	N/A
H	Flash disk3.0	Transcend	JetFlash-703	N/A

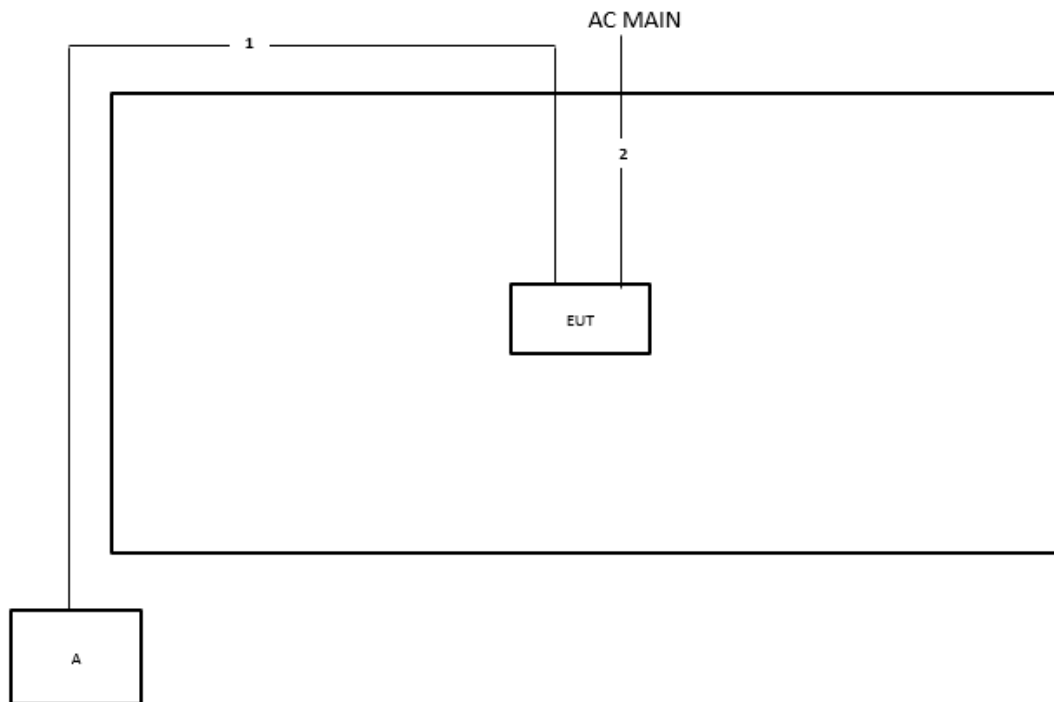
For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram





Test Setup Diagram - Radiated Test > 1GHz


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

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.

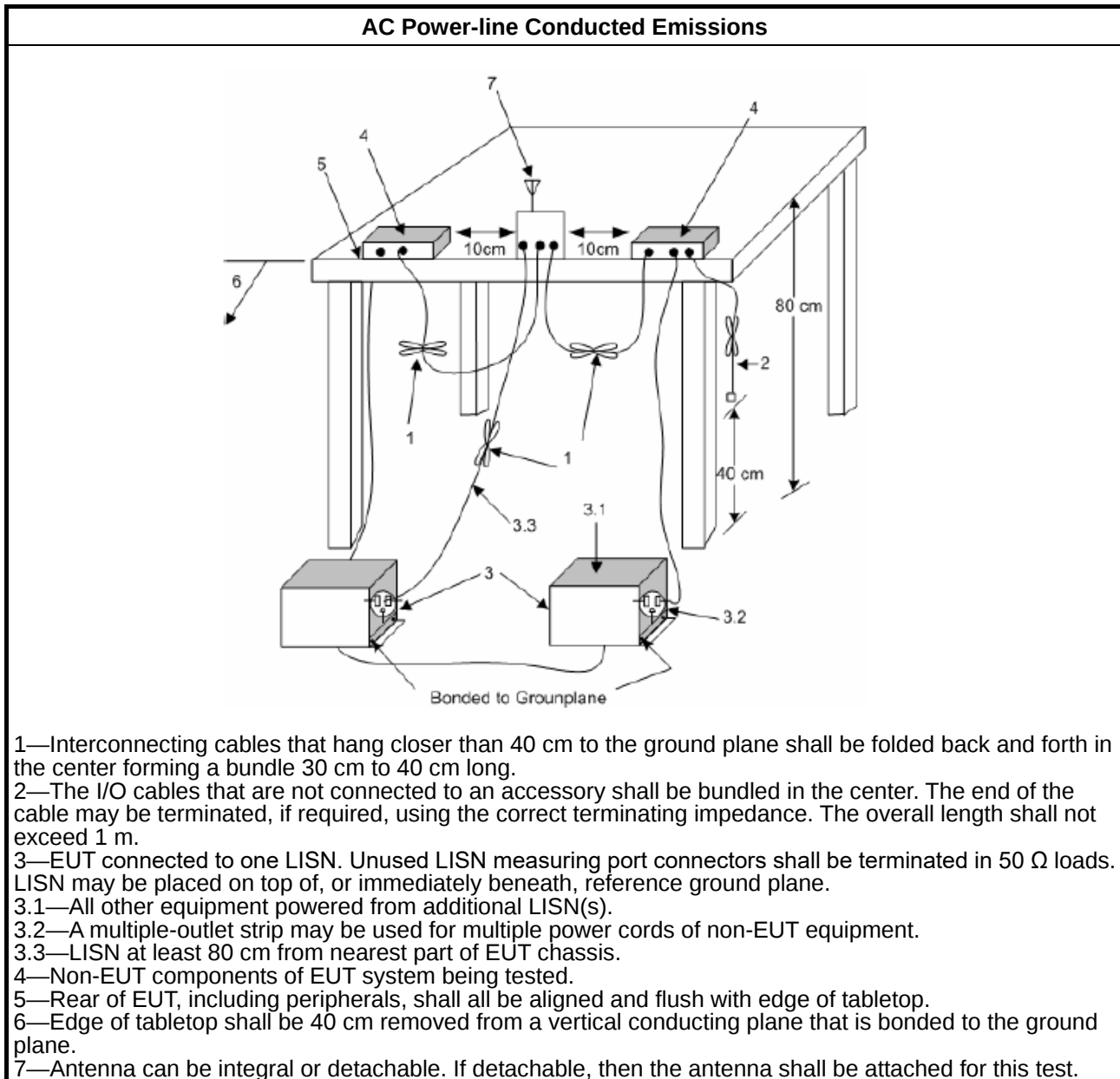
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2020, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

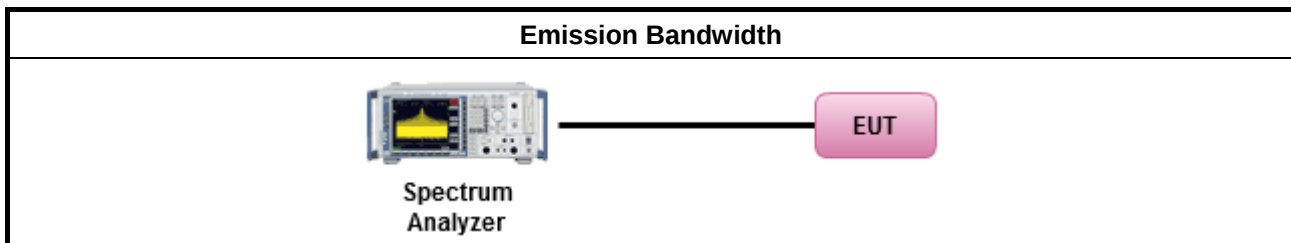
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

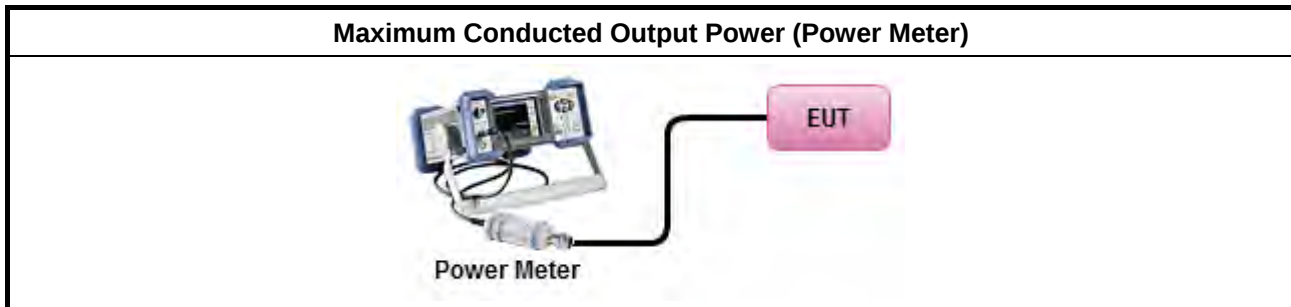
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

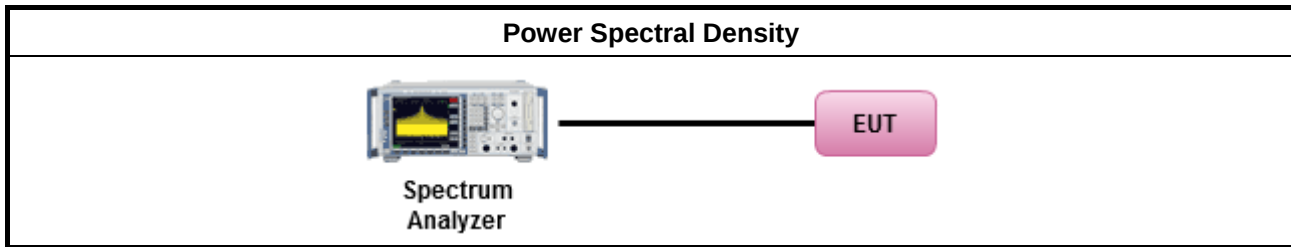
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle $\geq 98\%$ or external video / power trigger]
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

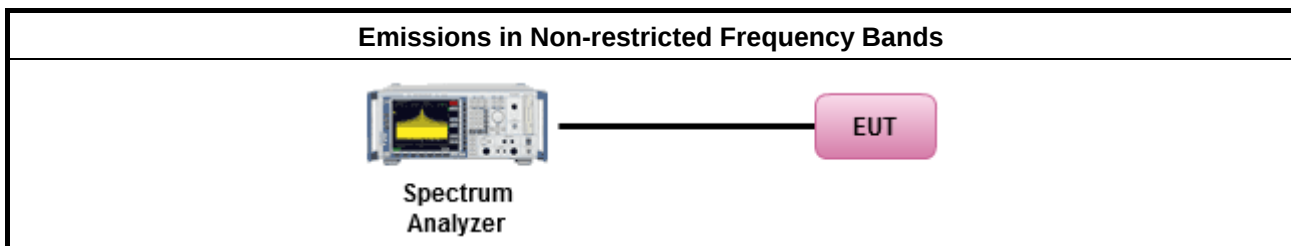
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions 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.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

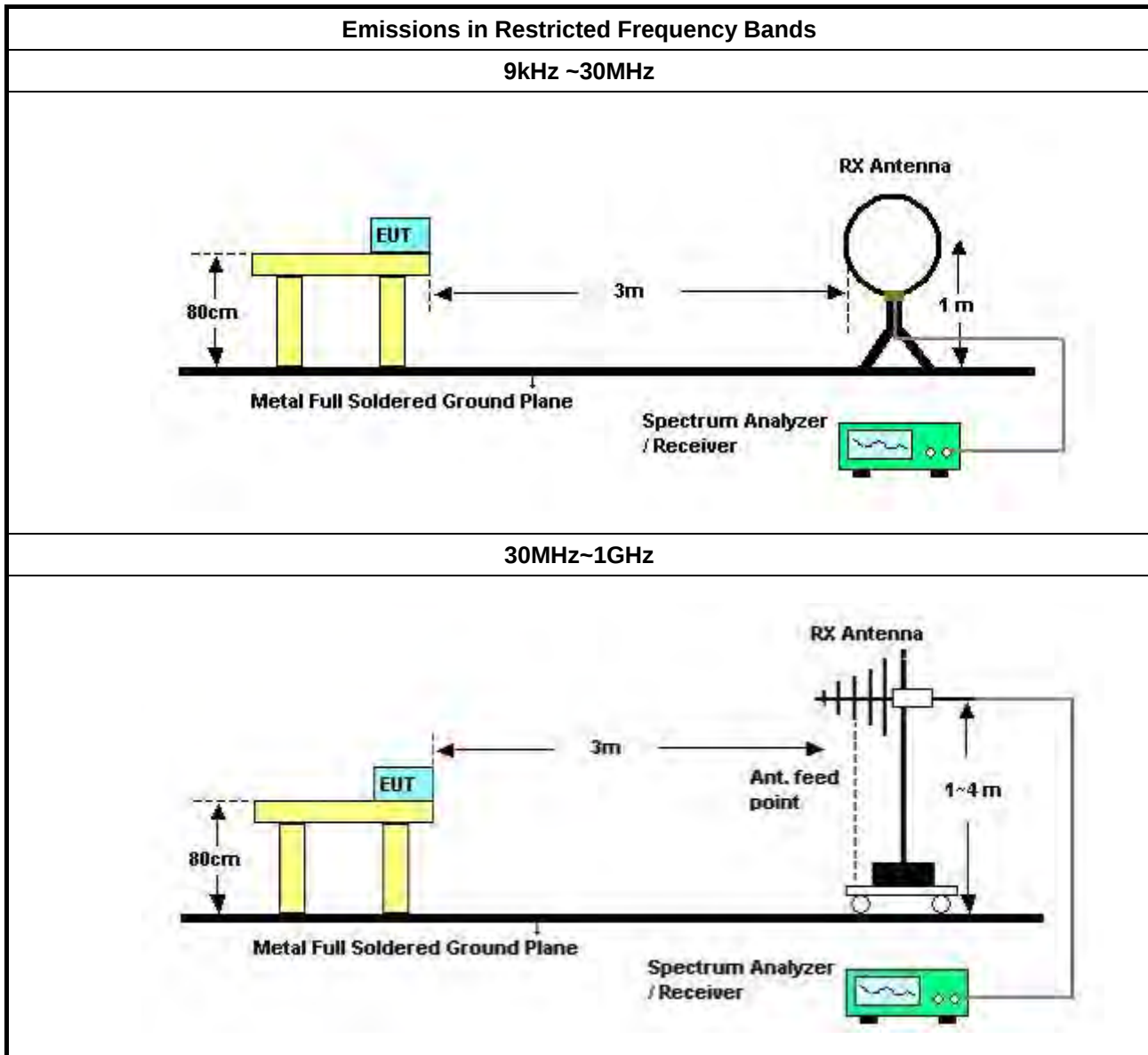
Refer a test equipment and calibration data table in this test report.

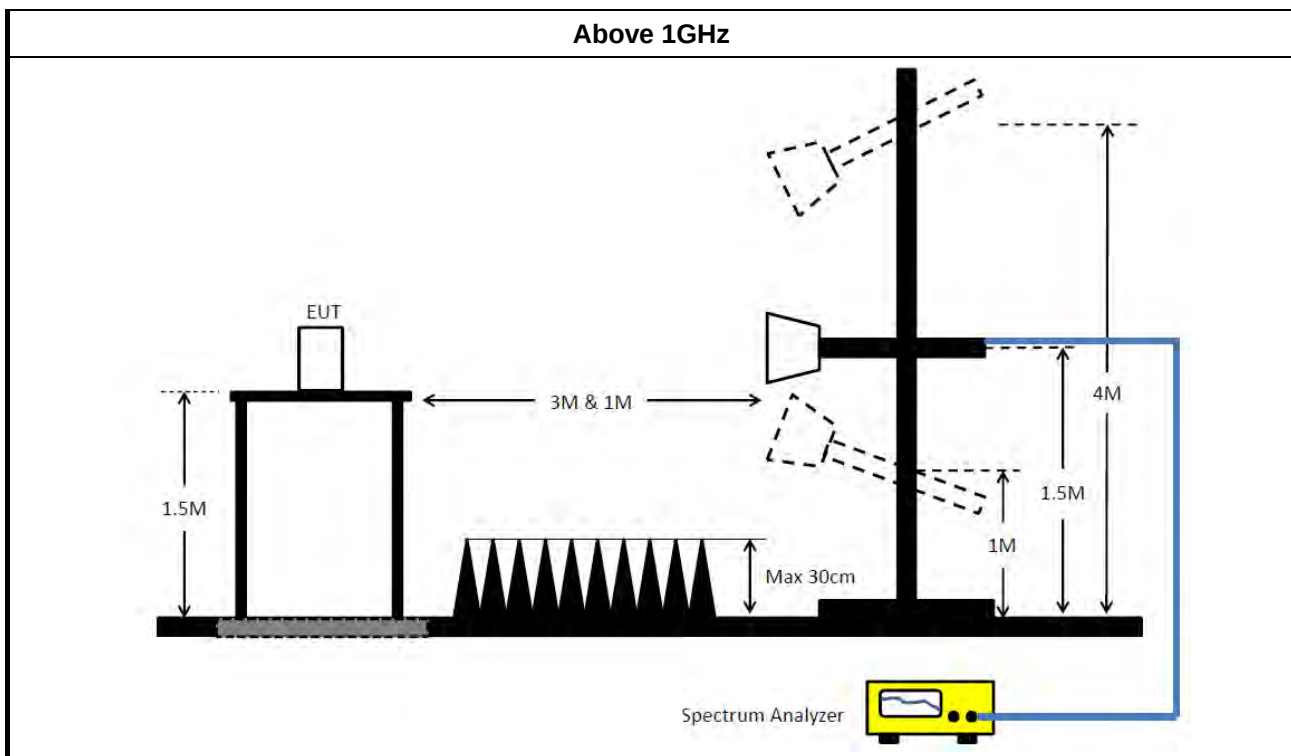


3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 06, 2025	Mar. 05, 2026	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 18, 2025	Feb. 17, 2026	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	May 10, 2025	May 09, 2026	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 15, 2025	Jan. 14, 2026	Radiation (10CH01-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 14, 2026	Jan. 13, 2027	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 08, 2025	Mar. 07, 2026	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 08, 2025	Mar. 07, 2026	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 14, 2025	Oct. 13, 2026	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 14, 2025	Oct. 13, 2026	Radiation (10CH01-CB)
EMI Test Receiver	Rohde& Schwarz	ESR7	103076	9kHz ~ 7GHz	Aug. 27, 2025	Aug. 26, 2026	Radiation (10CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Sep. 03, 2025	Sep. 02, 2026	Radiation (10CH01-CB)
Bilog Ant & 6dB Attenuator	SCHWARZBECK & EMCI	VULB 9168 & N-6-06	1469 & AT-N06021	30MHz ~ 1GHz	Jan. 08, 2026	Jan. 07, 2027	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 20, 2025	Oct. 19, 2026	Radiation (10CH01-CB)
Amplifier	EM	EM101	060703	10MHz ~ 1GHz	Oct. 15, 2025	Oct. 14, 2026	Radiation (10CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (10CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 21, 2025	Feb. 20, 2026	Radiation (03CH04-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz	Nov. 05, 2025	Nov. 04, 2026	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 16, 2025	Jan. 15, 2026	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz~40GHz	Nov. 21, 2025	Nov. 20, 2026	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 24, 2025	Mar. 23, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Nov. 13, 2025	Nov. 12, 2026	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz- 2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Sep. 03, 2025	Sep. 02, 2026	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 28, 2025	Oct. 27, 2026	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 28, 2025	Oct. 27, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1~18 GHz	Sep. 20, 2025	Sep. 19, 2026	Conducted (TH02-CB)



RADIO TEST REPORT

Report No. : FR5D0601

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



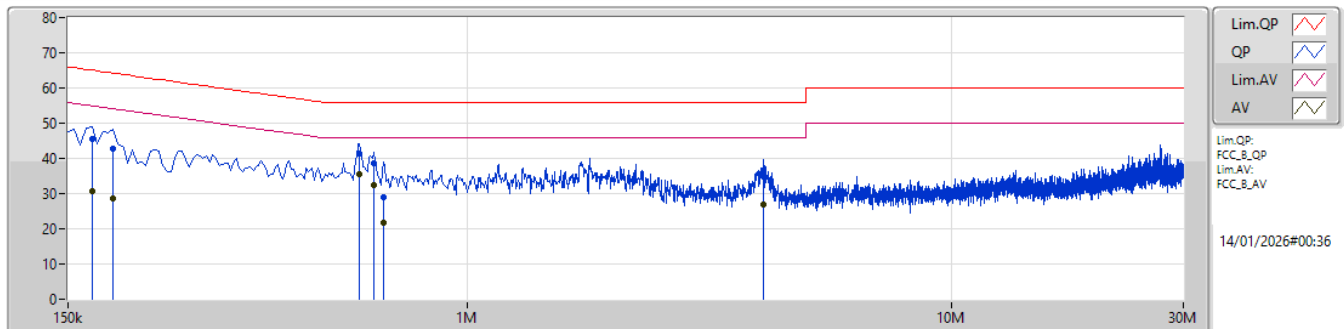
Conducted Emissions at Powerline

Appendix A

Summary

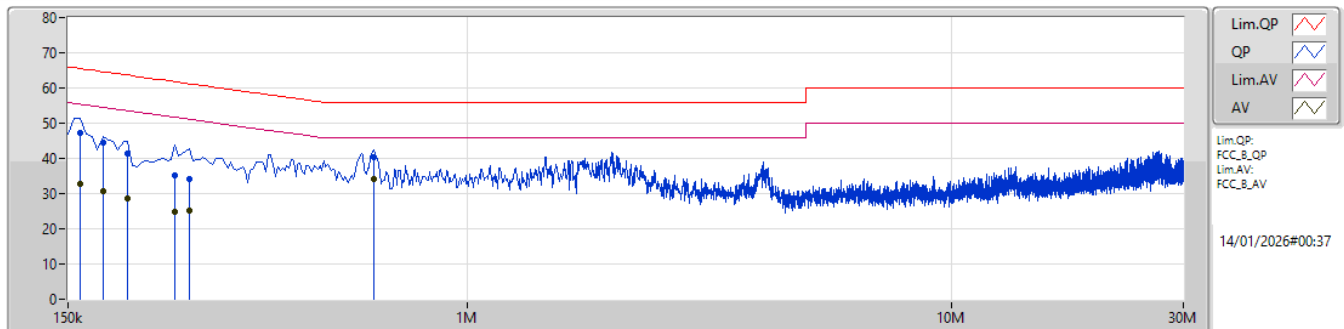
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	600k	35.44	46.00	-10.56	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	PA (dB)	AT (dB)				
QP	168k	45.60	65.06	-19.46	9.98	Line	-	35.62	0.05	0.08	-0.02	9.83				
AV	168k	30.77	55.06	-24.29	9.98	Line	-	20.79	0.05	0.08	-0.02	9.83				
QP	186k	42.67	64.20	-21.53	9.94	Line	-	32.73	0.06	0.07	-0.02	9.79				
AV	186k	28.74	54.20	-25.46	9.94	Line	-	18.80	0.06	0.07	-0.02	9.79				
QP	600k	41.31	56.00	-14.69	10.13	Line	-	31.18	0.06	0.13	-0.04	9.90				
AV	600k	35.44	46.00	-10.56	10.13	Line	"Worst"	25.31	0.06	0.13	-0.04	9.90				
QP	640.5k	38.68	56.00	-17.32	10.14	Line	-	28.54	0.07	0.14	-0.04	9.89				
AV	640.5k	32.47	46.00	-13.53	10.14	Line	-	22.33	0.07	0.14	-0.04	9.89				
QP	672k	29.04	56.00	-26.96	10.14	Line	-	18.90	0.07	0.14	-0.04	9.89				
AV	672k	21.64	46.00	-24.36	10.14	Line	-	11.50	0.07	0.14	-0.04	9.89				
QP	4.083M	34.92	56.00	-21.08	10.28	Line	-	24.64	0.13	0.14	-0.24	9.77				
AV	4.083M	26.96	46.00	-19.04	10.28	Line	-	16.68	0.13	0.14	-0.24	9.77				

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	PA (dB)	AT (dB)				
QP	159k	47.17	65.52	-18.35	10.07	Neutral	-	37.10	0.08	0.09	-0.05	9.85				
AV	159k	32.76	55.52	-22.76	10.07	Neutral	-	22.69	0.08	0.09	-0.05	9.85				
QP	177k	44.43	64.62	-20.19	10.02	Neutral	-	34.41	0.08	0.08	-0.05	9.81				
AV	177k	30.78	54.62	-23.84	10.02	Neutral	-	20.76	0.08	0.08	-0.05	9.81				
QP	199.5k	41.32	63.63	-22.31	9.95	Neutral	-	31.37	0.08	0.06	-0.05	9.76				
AV	199.5k	28.53	53.63	-25.10	9.95	Neutral	-	18.58	0.08	0.06	-0.05	9.76				
QP	249k	35.34	61.79	-26.45	10.01	Neutral	-	25.33	0.08	0.08	-0.05	9.80				
AV	249k	24.74	51.79	-27.05	10.01	Neutral	-	14.73	0.08	0.08	-0.05	9.80				
QP	267k	34.21	61.20	-26.99	10.04	Neutral	-	24.17	0.08	0.09	-0.05	9.82				
AV	267k	25.13	51.20	-26.07	10.04	Neutral	-	15.09	0.08	0.09	-0.05	9.82				
QP	640.5k	40.51	56.00	-15.49	10.20	Neutral	-	30.31	0.09	0.14	-0.08	9.89				
AV	640.5k	34.26	46.00	-11.74	10.20	Neutral	"Worst"	24.06	0.09	0.14	-0.08	9.89				

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	642.5k	1.012M	1M01F1D	611.25k	1.011M
BT-LE(2Mbps)	1.12M	2.026M	2M03F1D	1.025M	2.009M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

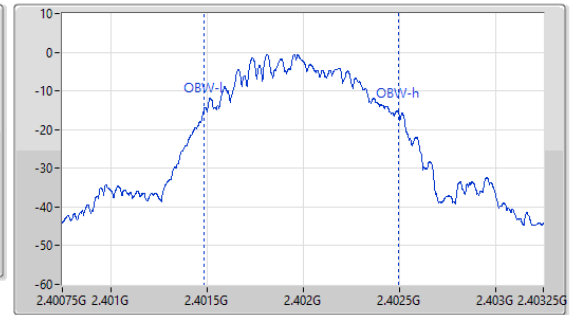
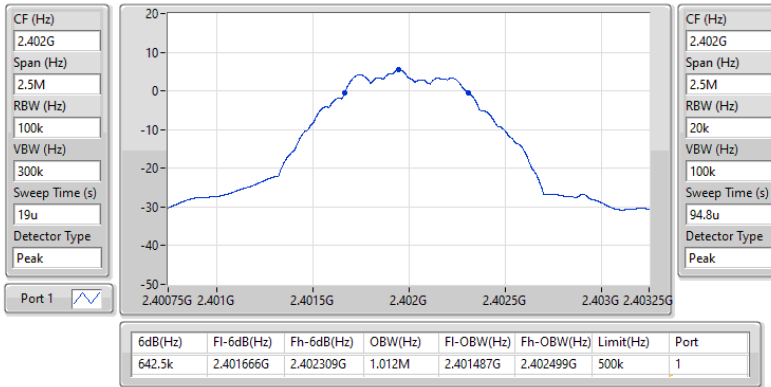
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	642.5k	1.012M
2440MHz	Pass	500k	635k	1.011M
2480MHz	Pass	500k	611.25k	1.011M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.025M	2.019M
2440MHz	Pass	500k	1.12M	2.026M
2480MHz	Pass	500k	1.028M	2.009M

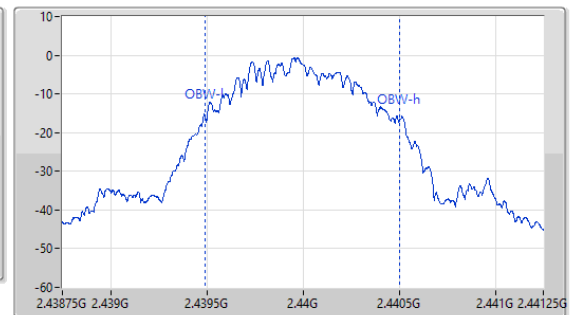
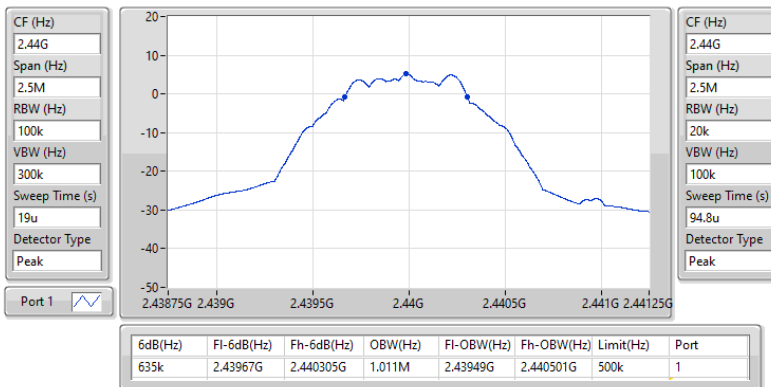
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2402MHz

19/12/2025

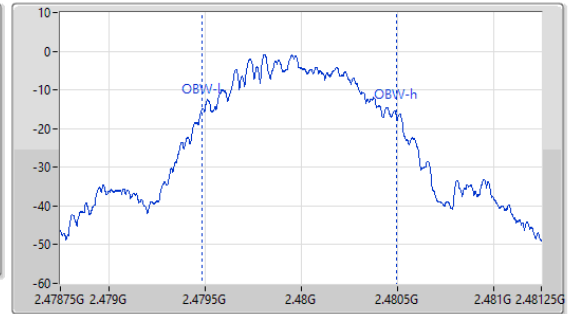
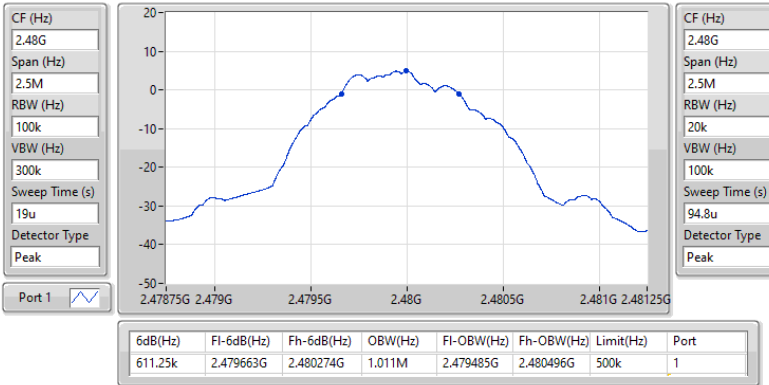

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

19/12/2025

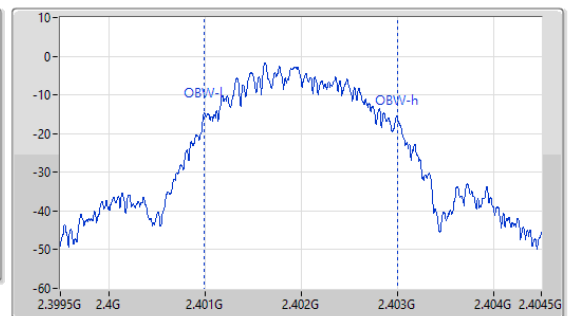
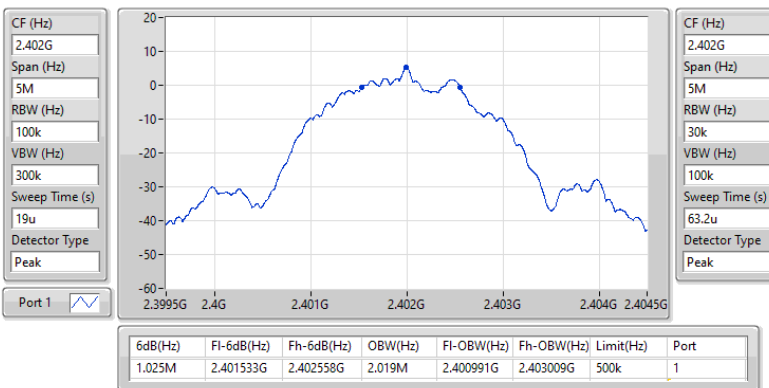


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2480MHz

19/12/2025

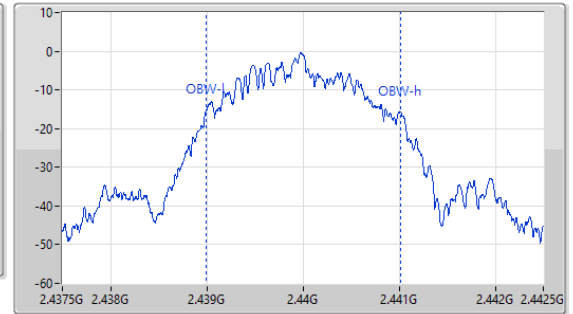
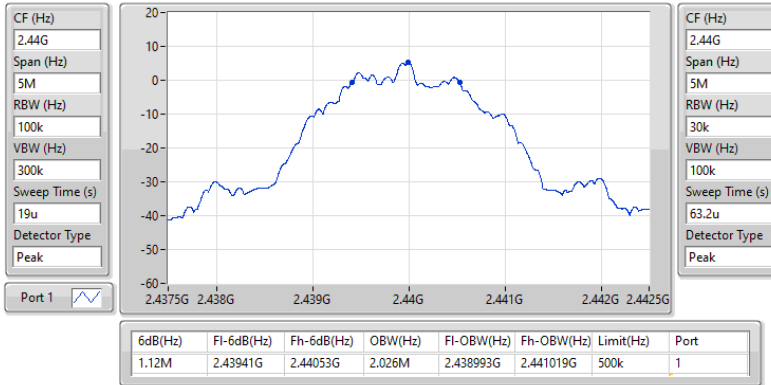

2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2402MHz

19/12/2025

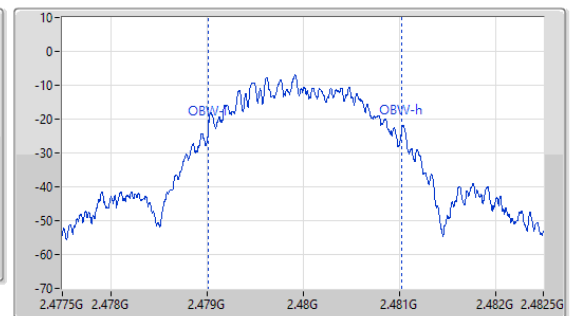
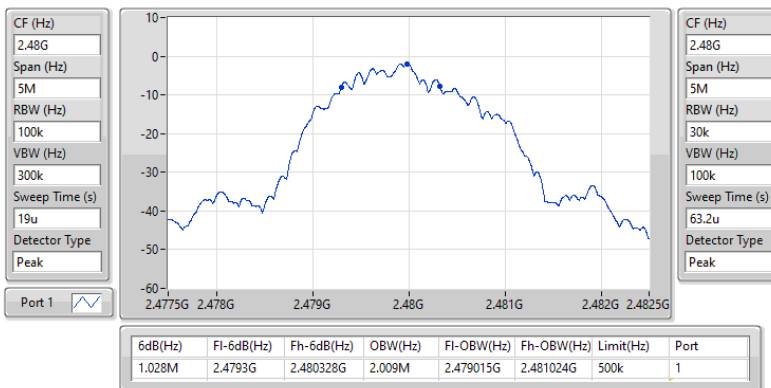


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

19/12/2025


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2480MHz

19/12/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	5.45	0.00351
BT-LE(2Mbps)	5.30	0.00339

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.53	5.45	30.00
2440MHz	Pass	3.53	5.38	30.00
2480MHz	Pass	3.53	4.96	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.53	5.30	30.00
2440MHz	Pass	3.53	5.16	30.00
2478MHz	Pass	3.53	4.90	30.00
2480MHz	Pass	3.53	-0.07	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-8.97
BT-LE(2Mbps)	-12.07

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.53	-8.97	8.00
2440MHz	Pass	3.53	-9.07	8.00
2480MHz	Pass	3.53	-9.51	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.53	-12.07	8.00
2440MHz	Pass	3.53	-12.09	8.00
2480MHz	Pass	3.53	-17.27	8.00

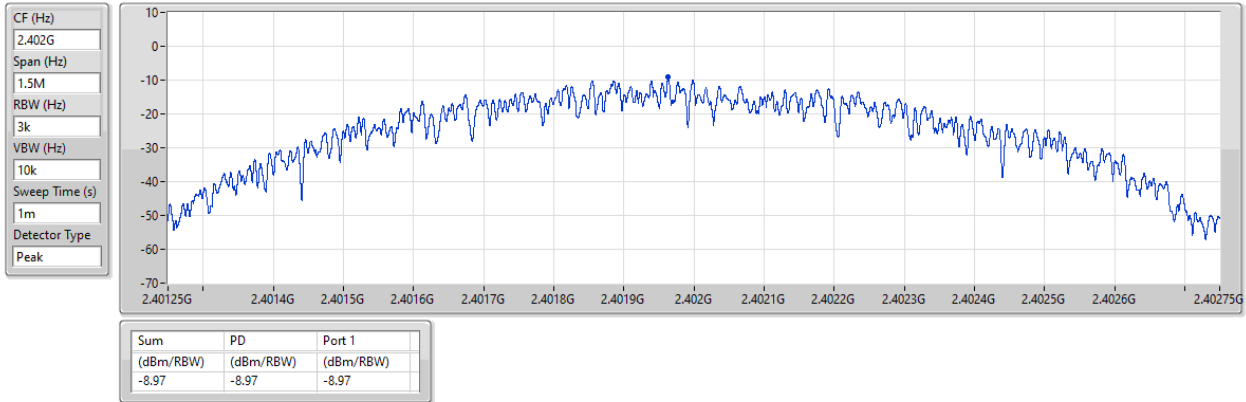
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

19/12/2025

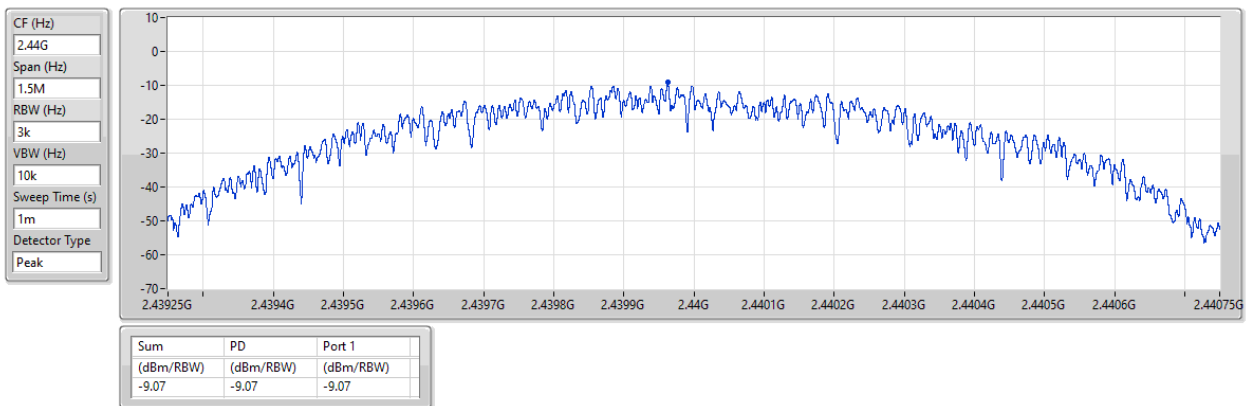


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

19/12/2025

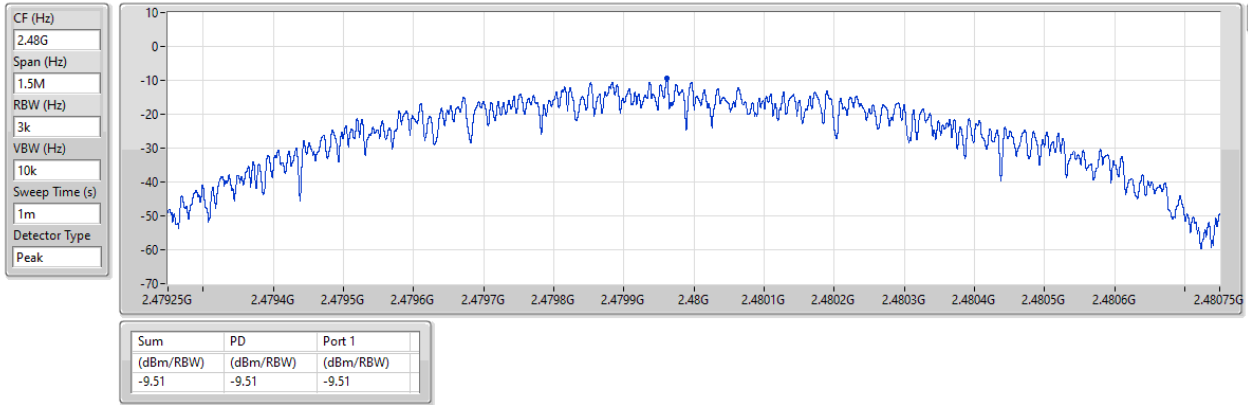


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

19/12/2025

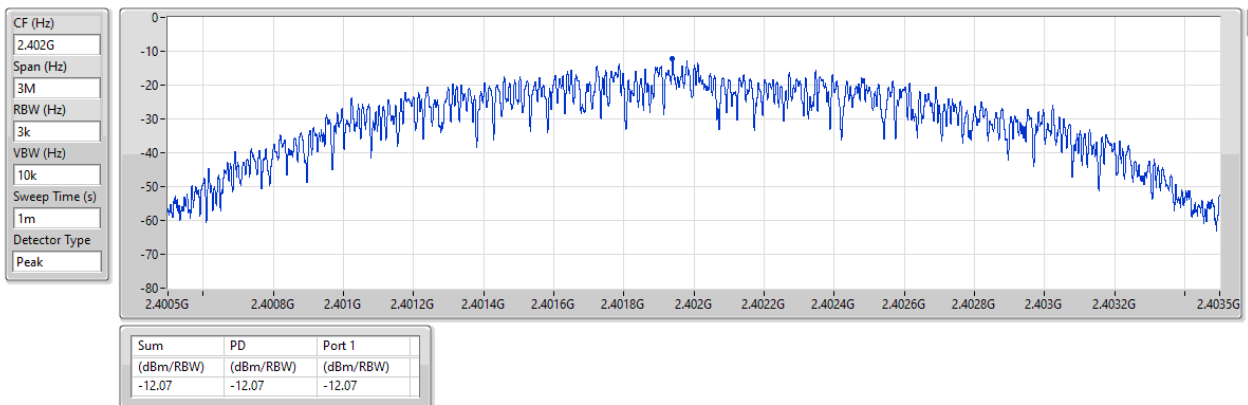


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

19/12/2025

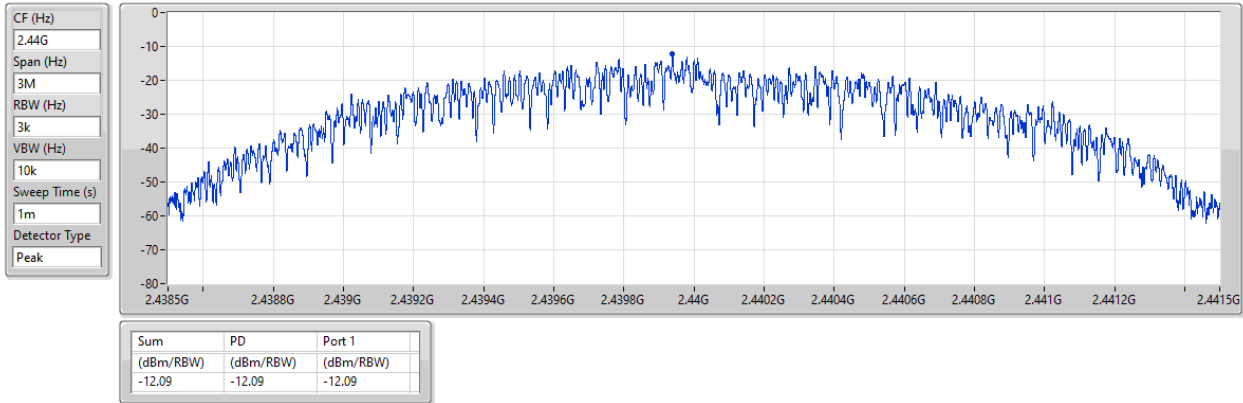


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

19/12/2025

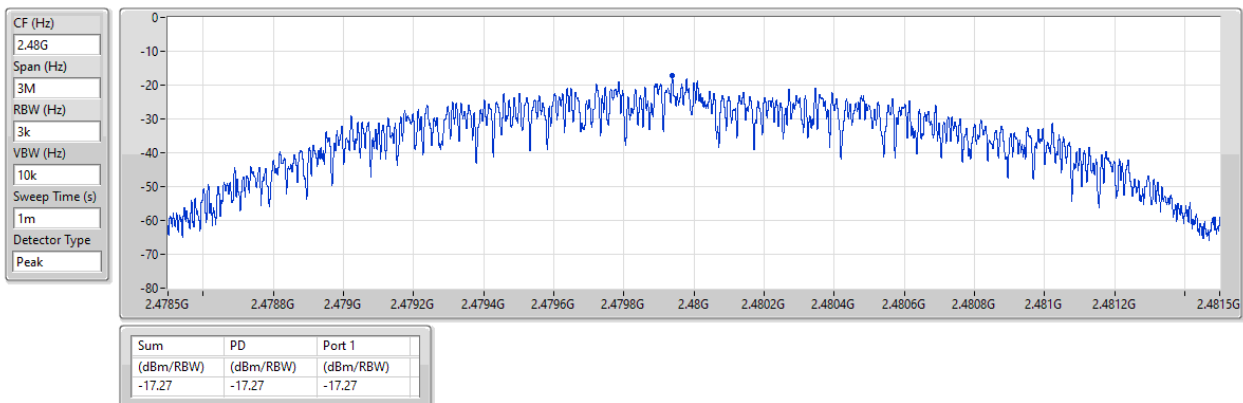


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

19/12/2025



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.402G	5.34	-24.66	911.25M	-52.31	2.4G	-37.08	2.4G	-35.71	2.50082G	-51.52	16.57506G	-42.49	1
BT-LE(2Mbps)	Pass	2.40184G	5.36	-24.64	867.78M	-51.92	2.39996G	-27.46	2.4G	-28.00	2.50322G	-51.16	24.56694G	-43.13	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	5.34	-24.66	911.25M	-52.31	2.4G	-37.08	2.4G	-35.71	2.50082G	-51.52	16.57506G	-42.49	1
2440MHz	Pass	2.402G	5.34	-24.66	1.79838G	-52.14	2.391G	-51.20	2.4G	-53.41	2.50194G	-51.90	16.20106G	-42.28	1
2480MHz	Pass	2.402G	5.34	-24.66	2.13795G	-52.47	2.39988G	-51.25	2.4G	-54.88	2.50194G	-51.39	16.58631G	-42.55	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	5.36	-24.64	867.78M	-51.92	2.39996G	-27.46	2.4G	-28.00	2.50322G	-51.16	24.56694G	-43.13	1
2440MHz	Pass	2.40184G	5.36	-24.64	861.9M	-52.00	2.39348G	-52.07	2.4G	-53.52	2.50154G	-51.29	16.44571G	-42.44	1
2480MHz	Pass	2.40184G	5.36	-24.64	918.3M	-52.10	2.39312G	-51.47	2.4G	-54.22	2.50318G	-51.39	17.64364G	-42.60	1

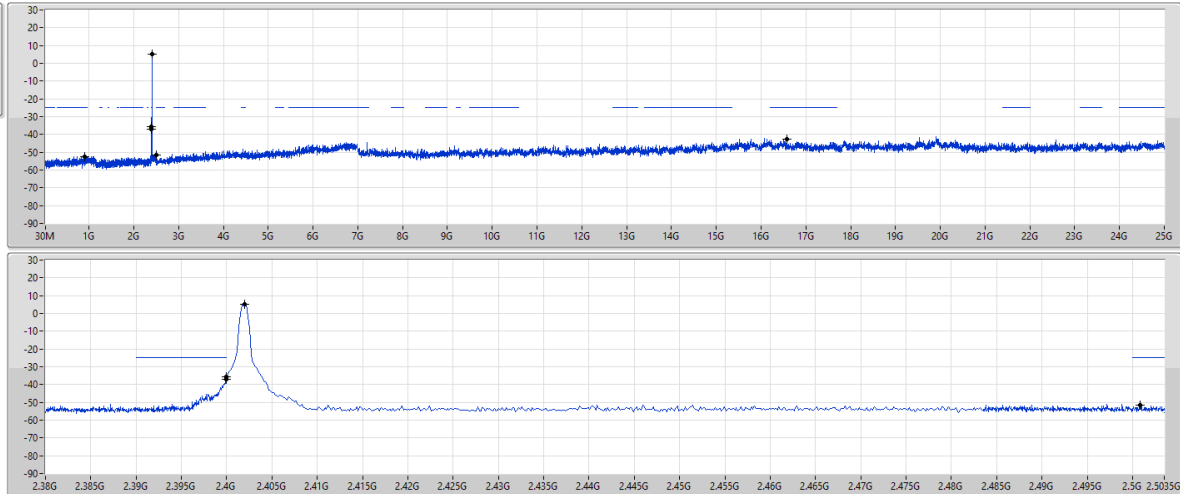
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

19/12/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	5.34	-24.66	911.25M	-52.31	2.4G	-37.08	2.4G	-35.71	2.50082G	-51.52	16.57506G	-42.49	1

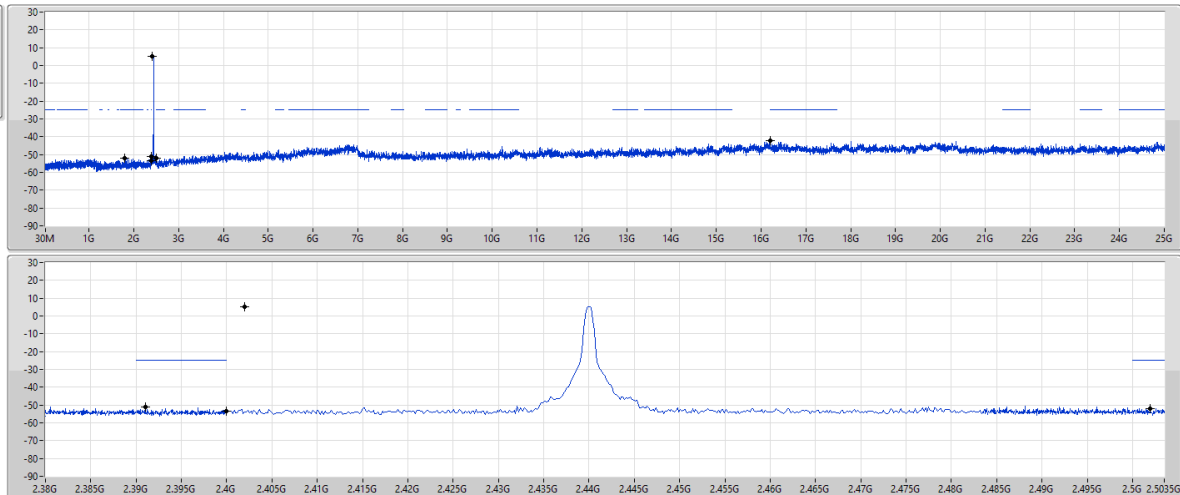
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

19/12/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

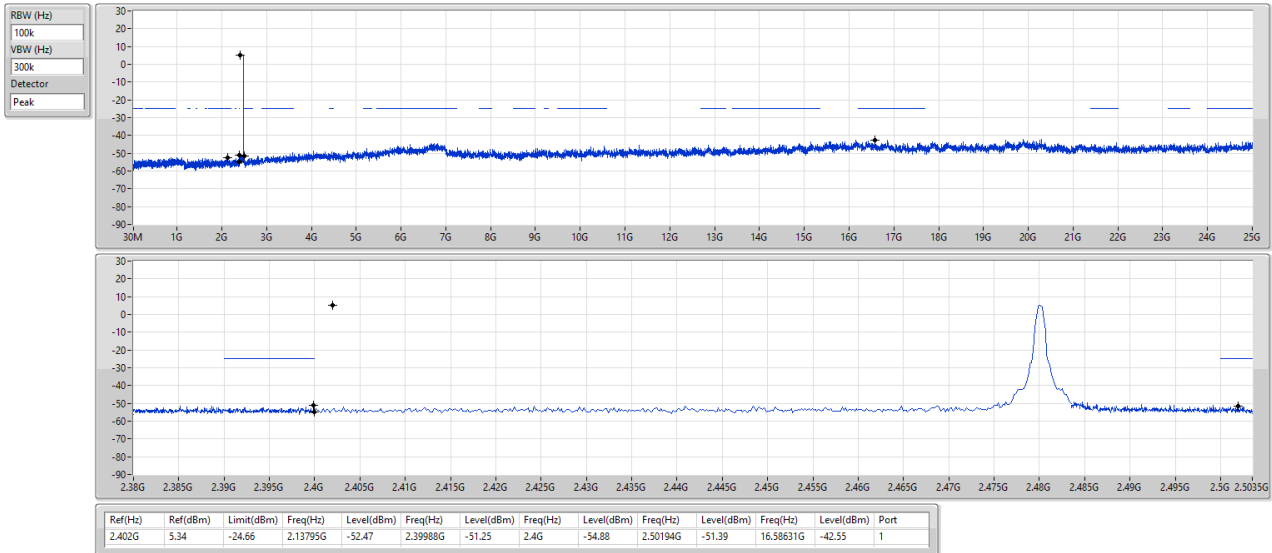


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	5.34	-24.66	1.79838G	-52.14	2.391G	-51.20	2.4G	-53.41	2.50194G	-51.90	16.20106G	-42.28	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

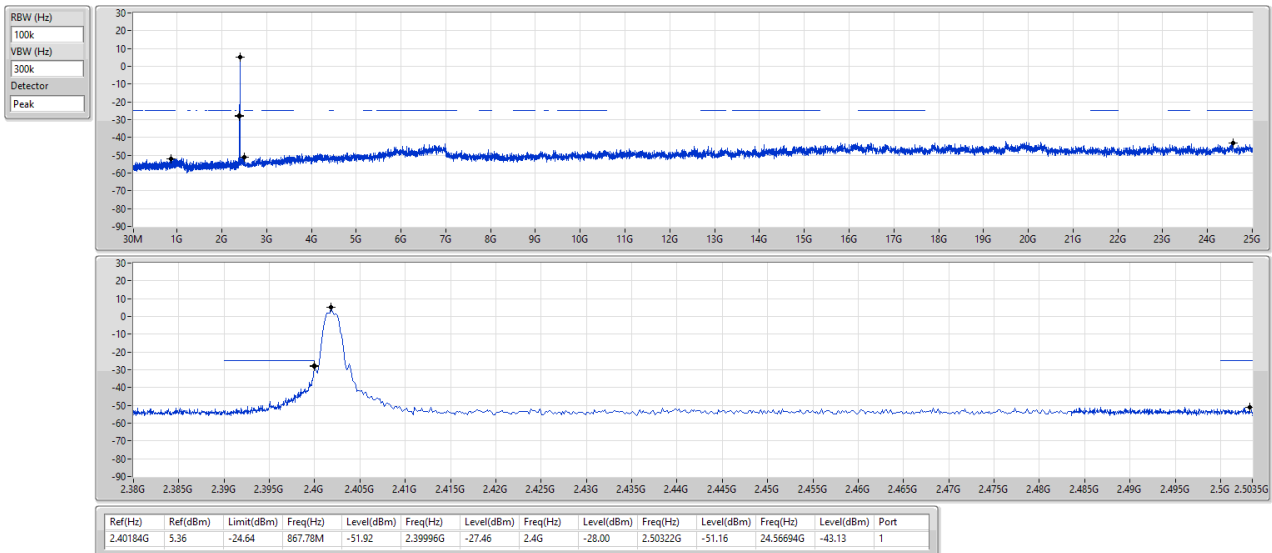
2480MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

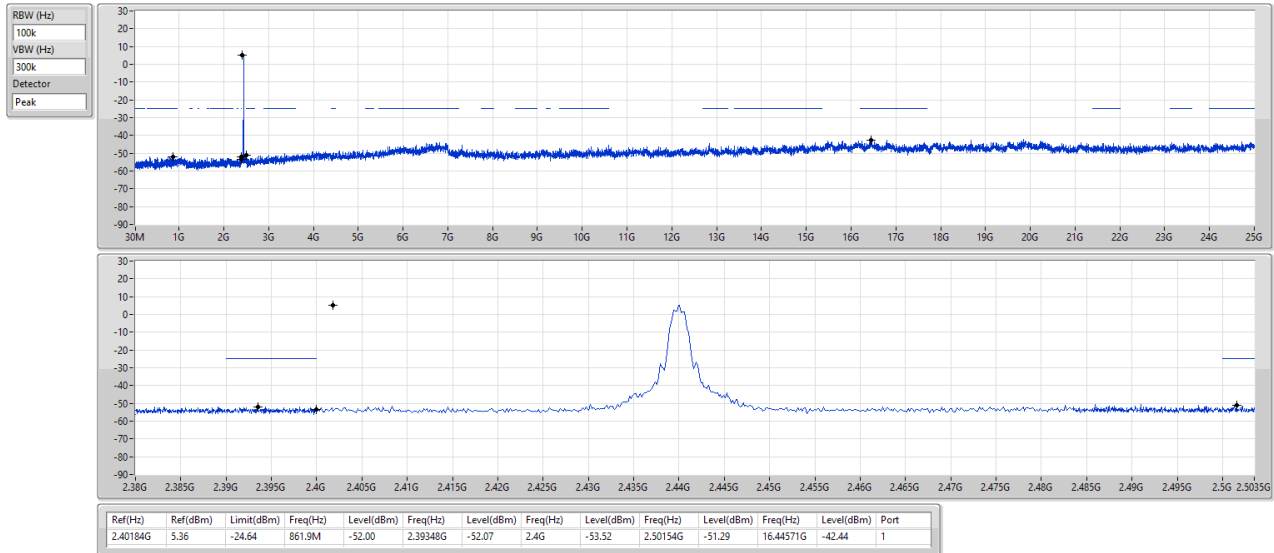


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2440MHz

19/12/2025

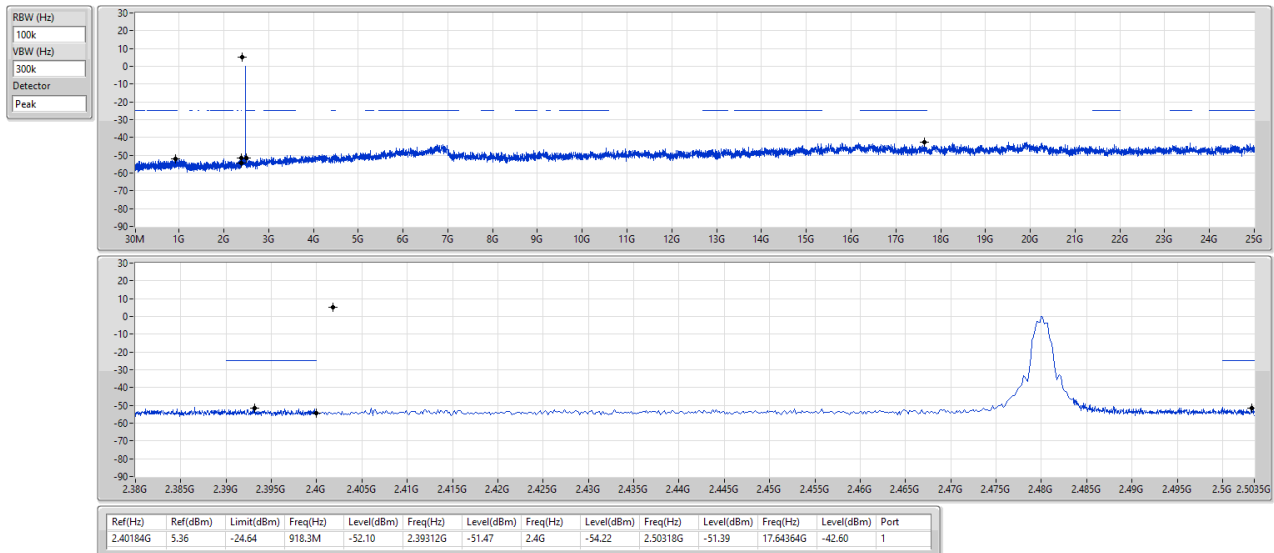


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz

19/12/2025





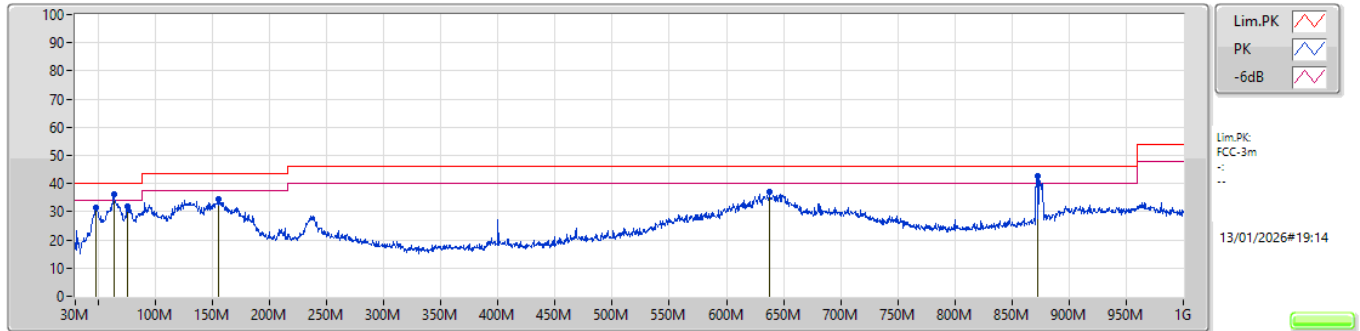
Radiated Emissions below 1GHz

Appendix F.1

Summary

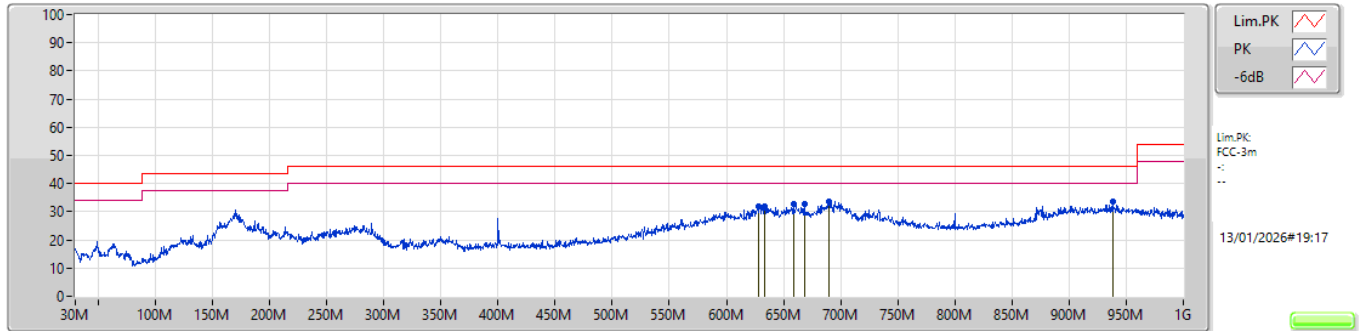
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	872.45M	42.87	46.00	-3.13	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
PK	47.95M	31.47	40.00	-8.53	-34.12	3	Vertical	68	1.00	-	65.59	19.58	0.30	54.00		
PK	63.95M	36.18	40.00	-3.82	-34.77	3	Vertical	79	1.00	-	70.95	18.50	0.72	53.99		
PK	76.08M	31.69	40.00	-8.31	-37.63	3	Vertical	261	1.00	-	69.32	15.67	0.67	53.97		
PK	155.62M	34.55	43.50	-8.95	-33.02	3	Vertical	83	2.00	-	67.57	19.23	1.48	53.73		
PK	637.71M	36.94	46.00	-9.06	-23.10	3	Vertical	131	2.00	-	60.04	26.18	3.59	52.87		
PK	872.45M	42.87	46.00	-3.13	-18.85	3	Vertical	52	1.00	"Worst"	61.72	28.54	4.45	51.84		

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
PK	628.01M	31.99	46.00	-14.01	-23.07	3	Horizontal	121	1.00	-	55.06	26.28	3.54	52.89		
PK	633.83M	31.72	46.00	-14.28	-23.02	3	Horizontal	69	1.00	-	54.74	26.29	3.57	52.88		
PK	658.56M	32.87	46.00	-13.13	-22.74	3	Horizontal	73	1.00	-	55.61	26.42	3.64	52.80		
PK	668.26M	32.78	46.00	-13.22	-22.67	3	Horizontal	213	1.00	-	55.45	26.43	3.65	52.75		
PK	689.6M	33.54	46.00	-12.46	-22.28	3	Horizontal	49	2.00	"Worst"	55.82	26.71	3.66	52.65		
PK	938.41M	33.52	46.00	-12.48	-17.61	3	Horizontal	299	1.00	-	51.13	29.57	4.54	51.72		

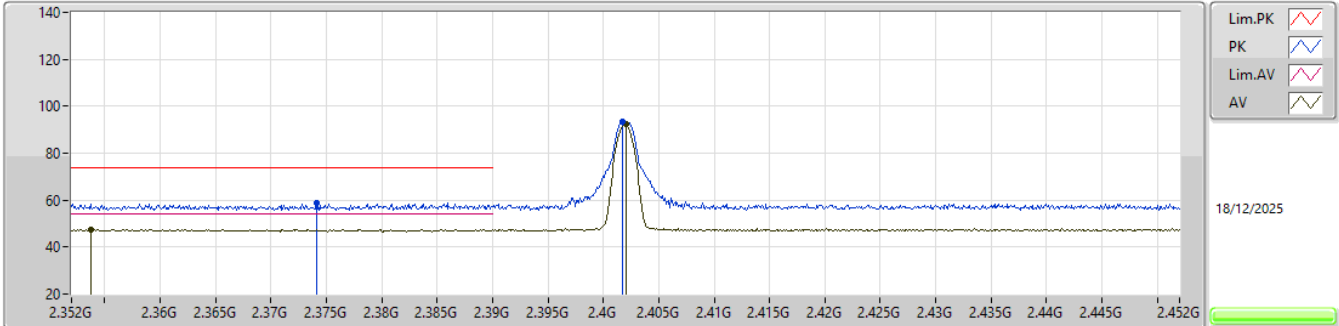


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	AV	2.4835G	53.49	54.00	-0.51	3	Horizontal	348	2.27	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

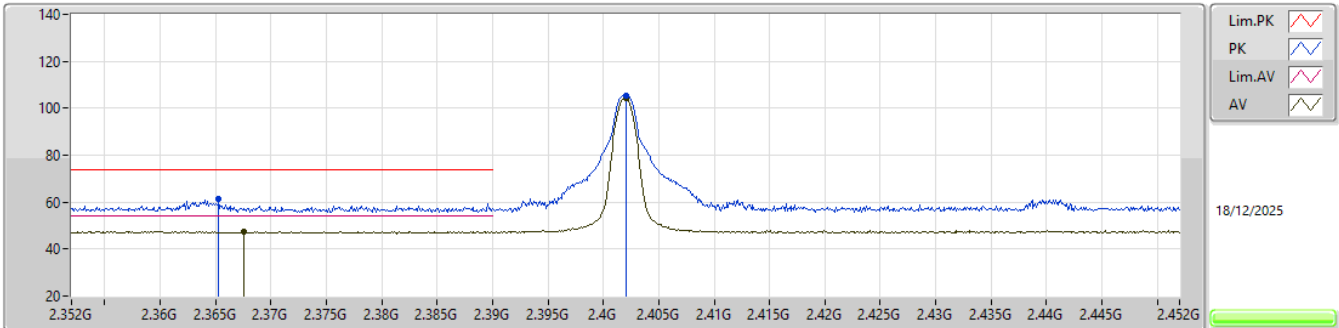


EUT Y_1TX
Setting 060
04-W-A-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.3741G	58.77	74.00	-15.23	25.65	3	Vertical	360	1.80	-	27.50	5.62	-				
AV	2.3537G	47.67	54.00	-6.33	14.37	3	Vertical	360	1.80	-	27.70	5.60	-				
PK	2.4017G	93.19	Inf	-Inf	59.85	3	Vertical	360	1.80	-	27.70	5.64	-				
AV	2.402G	92.33	Inf	-Inf	58.99	3	Vertical	360	1.80	-	27.70	5.64	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

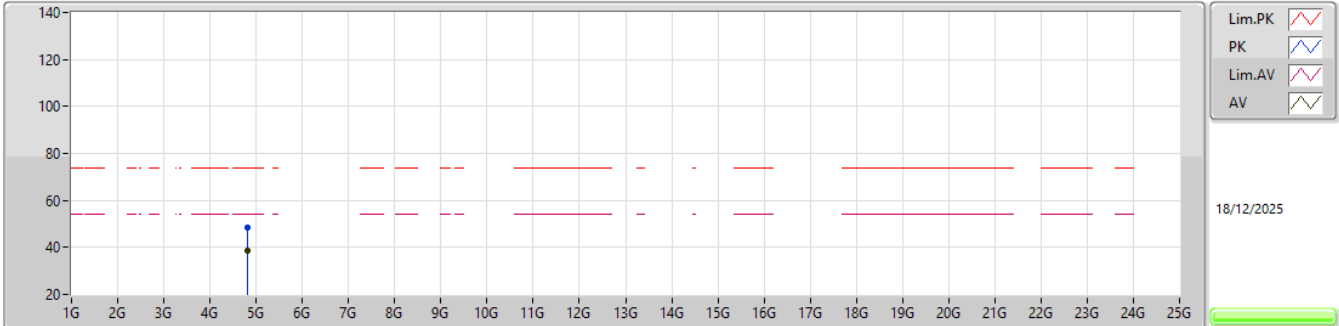


EUT_Y_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3653G	61.24	74.00	-12.76	28.04	3	Horizontal	329	1.00	-	27.59	5.61	-			
AV	2.3675G	47.59	54.00	-6.41	14.43	3	Horizontal	329	1.00	-	27.55	5.61	-			
PK	2.402G	105.19	Inf	-Inf	71.85	3	Horizontal	329	1.00	-	27.70	5.64	-			
AV	2.402G	104.42	Inf	-Inf	71.08	3	Horizontal	329	1.00	-	27.70	5.64	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

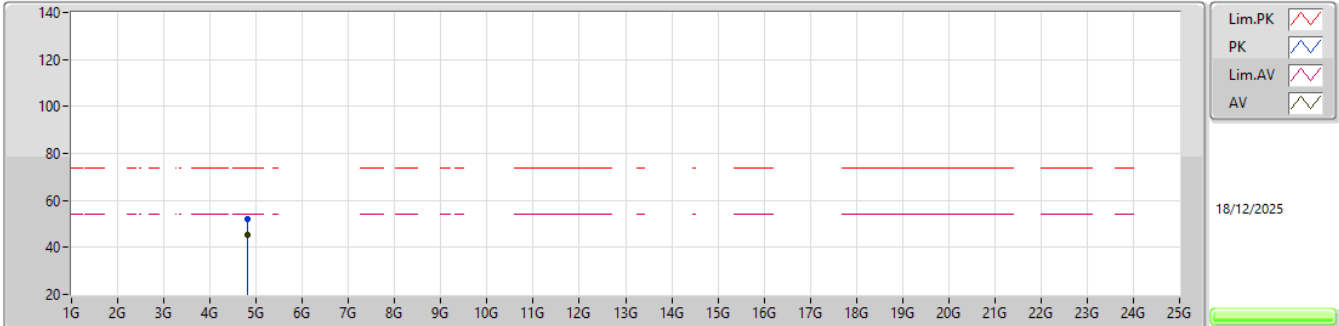


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.80329G	48.32	74.00	-25.68	51.62	3	Vertical	136	1.42	-	32.61	8.10	44.01			
AV	4.80352G	38.80	54.00	-15.20	42.10	3	Vertical	136	1.42	-	32.61	8.10	44.01			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

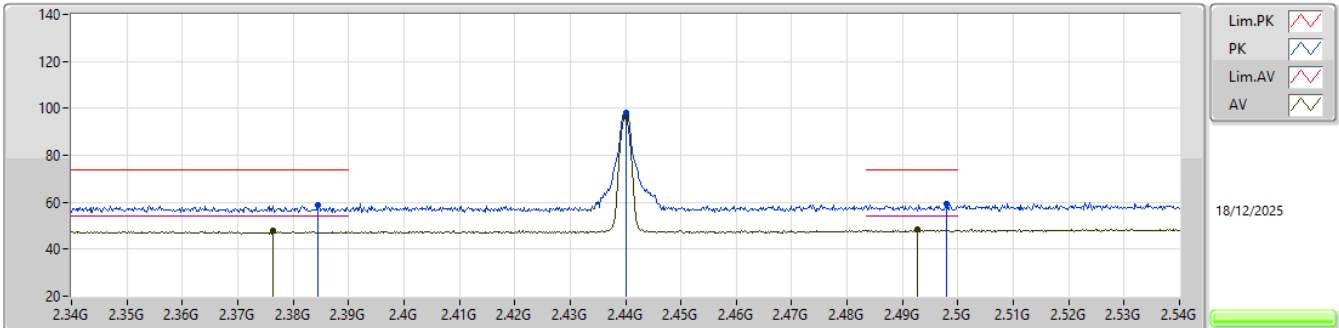


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.80354G	52.00	74.00	-22.00	55.30	3	Horizontal	294	2.57	-	32.61	8.10	44.01			
AV	4.80396G	45.15	54.00	-8.85	48.45	3	Horizontal	294	2.57	-	32.61	8.10	44.01			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

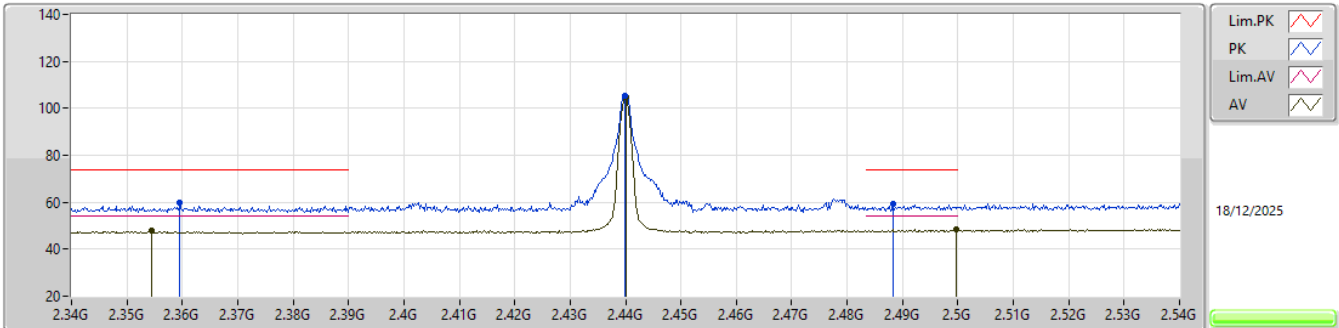


EUT_Y_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3844G	58.91	74.00	-15.09	25.74	3	Vertical	48	1.13	-	27.54	5.63	-				
AV	2.3764G	47.70	54.00	-6.30	14.58	3	Vertical	48	1.13	-	27.50	5.62	-				
PK	2.4402G	97.87	Inf	-Inf	64.50	3	Vertical	48	1.13	-	27.70	5.67	-				
AV	2.44G	96.73	Inf	-Inf	63.36	3	Vertical	48	1.13	-	27.70	5.67	-				
PK	2.498G	59.33	74.00	-14.67	25.53	3	Vertical	48	1.13	-	28.08	5.72	-				
AV	2.4926G	48.24	54.00	-5.76	14.49	3	Vertical	48	1.13	-	28.03	5.72	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

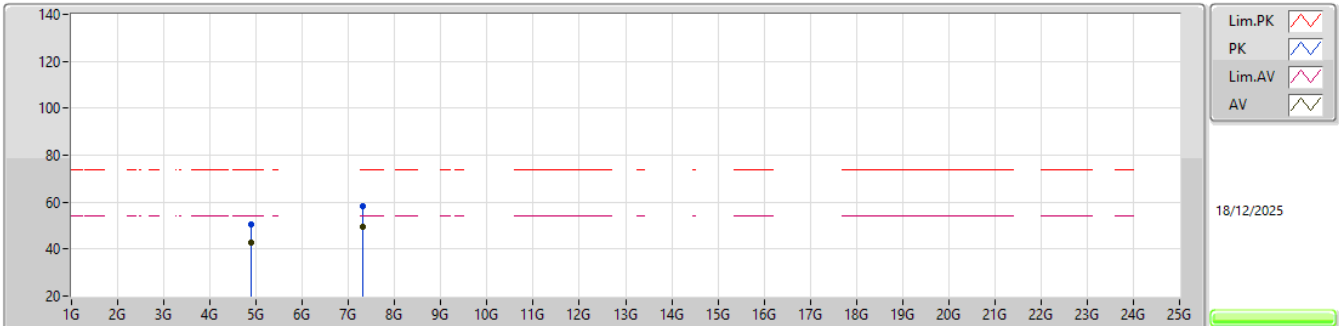


EUT_V_1TX
Setting 060
04-W-A-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.3596G	59.64	74.00	-14.36	26.33	3	Horizontal	348	2.33	-	27.70	5.61	-				
AV	2.3544G	47.73	54.00	-6.27	14.43	3	Horizontal	348	2.33	-	27.70	5.60	-				
PK	2.4398G	105.43	Inf	-Inf	72.06	3	Horizontal	348	2.33	-	27.70	5.67	-				
AV	2.44G	104.66	Inf	-Inf	71.29	3	Horizontal	348	2.33	-	27.70	5.67	-				
PK	2.4882G	59.34	74.00	-14.66	25.65	3	Horizontal	348	2.33	-	27.98	5.71	-				
AV	2.4998G	48.33	54.00	-5.67	14.51	3	Horizontal	348	2.33	-	28.10	5.72	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

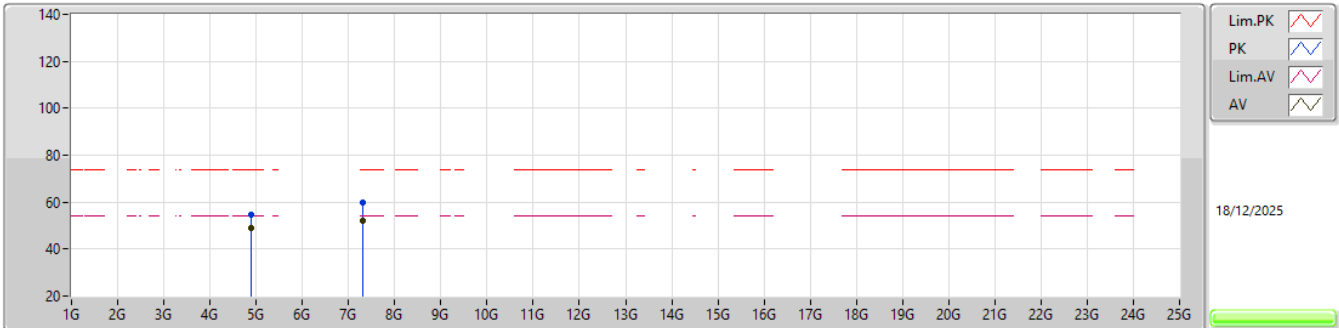


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.87948G	50.34	74.00	-23.66	53.33	3	Vertical	139	1.32	-	32.82	8.18	43.99				
AV	4.8799G	42.66	54.00	-11.34	45.65	3	Vertical	139	1.32	-	32.82	8.18	43.99				
PK	7.3194G	58.16	74.00	-15.84	52.72	3	Vertical	113	2.99	-	37.60	10.39	42.55				
AV	7.31938G	49.64	54.00	-4.36	44.20	3	Vertical	113	2.99	-	37.60	10.39	42.55				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

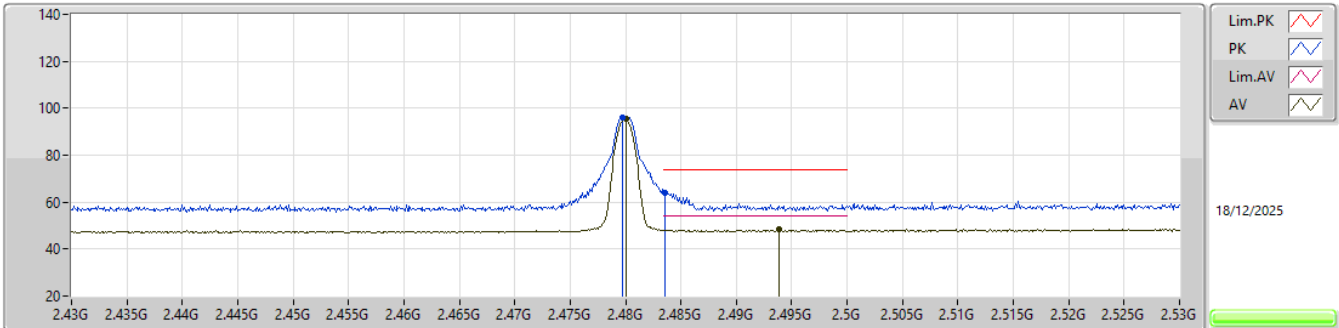


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.88043G	54.61	74.00	-19.39	57.60	3	Horizontal	290	2.71	-	32.82	8.18	43.99				
AV	4.87989G	49.12	54.00	-4.88	52.11	3	Horizontal	290	2.71	-	32.82	8.18	43.99				
PK	7.32053G	59.66	74.00	-14.34	54.22	3	Horizontal	216	1.80	-	37.60	10.39	42.55				
AV	7.3193G	52.06	54.00	-1.94	46.62	3	Horizontal	216	1.80	-	37.60	10.39	42.55				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

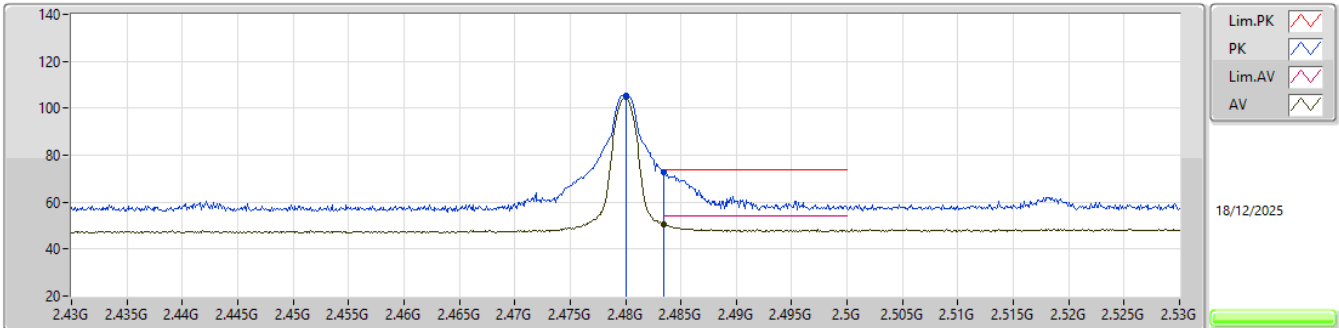


EUT_Y_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4797G	96.28	Inf	-Inf	62.67	3	Vertical	26	2.86	-	27.90	5.71	-				
AV	2.48G	95.47	Inf	-Inf	61.86	3	Vertical	26	2.86	-	27.90	5.71	-				
PK	2.4836G	64.06	74.00	-9.94	30.41	3	Vertical	26	2.86	-	27.94	5.71	-				
AV	2.4939G	48.33	54.00	-5.67	14.57	3	Vertical	26	2.86	-	28.04	5.72	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

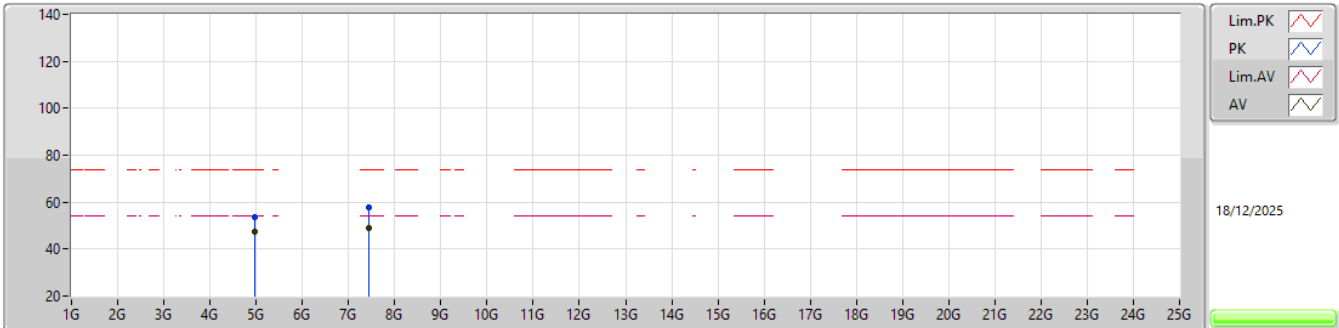


EUT Y_1TX
Setting 060
04-W-A-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.48G	105.44	Inf	-Inf	71.83	3	Horizontal	348	2.03	-	27.90	5.71	-				
AV	2.48G	104.70	Inf	-Inf	71.09	3	Horizontal	348	2.03	-	27.90	5.71	-				
PK	2.4835G	72.65	74.00	-1.35	39.00	3	Horizontal	348	2.03	-	27.94	5.71	-				
AV	2.4835G	50.49	54.00	-3.51	16.84	3	Horizontal	348	2.03	-	27.94	5.71	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

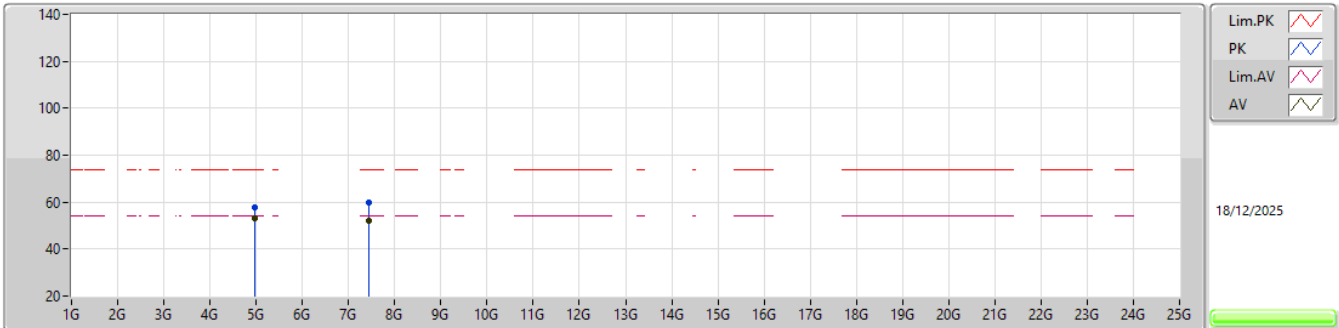


EUT_Z_1TX
Setting 055
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.96049G	53.65	74.00	-20.35	56.34	3	Vertical	288	1.01	-	33.00	8.27	43.96			
AV	4.95989G	47.17	54.00	-6.83	49.86	3	Vertical	288	1.01	-	33.00	8.27	43.96			
PK	7.43916G	57.95	74.00	-16.05	52.38	3	Vertical	116	2.93	-	37.60	10.45	42.48			
AV	7.43935G	48.89	54.00	-5.11	43.32	3	Vertical	116	2.93	-	37.60	10.45	42.48			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

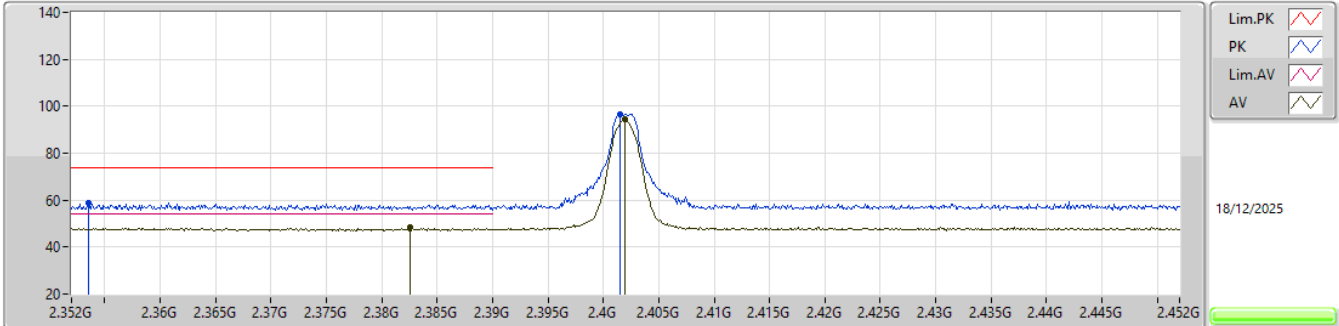


EUT_Z_1TX
Setting 055
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.96047G	57.73	74.00	-16.27	60.42	3	Horizontal	289	2.64	-	33.00	8.27	43.96				
AV	4.95985G	53.29	54.00	-0.71	55.98	3	Horizontal	289	2.64	-	33.00	8.27	43.96				
PK	7.43918G	59.65	74.00	-14.35	54.08	3	Horizontal	75	2.14	-	37.60	10.45	42.48				
AV	7.43934G	52.32	54.00	-1.68	46.75	3	Horizontal	75	2.14	-	37.60	10.45	42.48				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

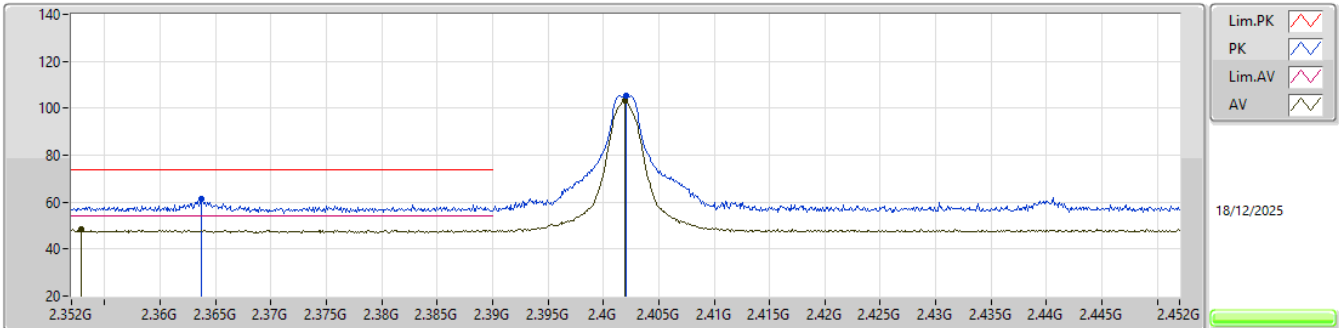


EUT_Y_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3535G	58.69	74.00	-15.31	25.39	3	Vertical	35	1.80	-	27.70	5.60	-				
AV	2.3826G	48.21	54.00	-5.79	15.05	3	Vertical	35	1.80	-	27.53	5.63	-				
PK	2.4015G	96.60	Inf	-Inf	63.26	3	Vertical	35	1.80	-	27.70	5.64	-				
AV	2.4019G	94.57	Inf	-Inf	61.23	3	Vertical	35	1.80	-	27.70	5.64	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

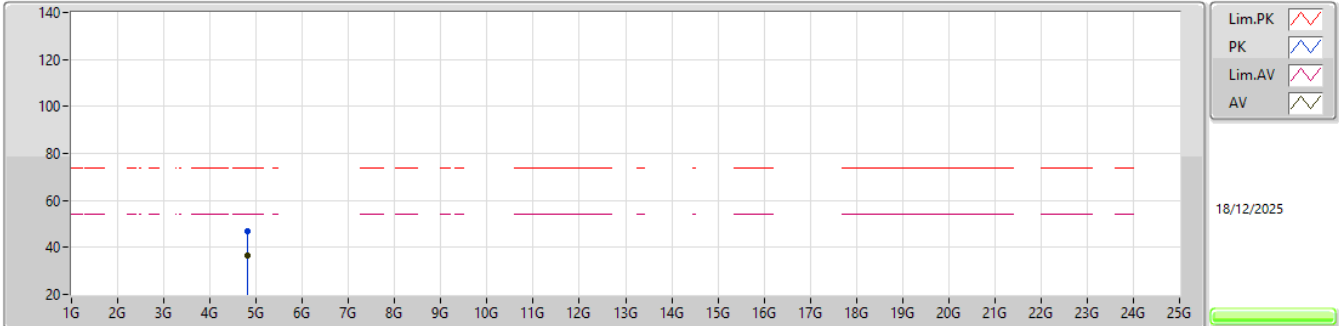


EUT_Y_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3637G	61.26	74.00	-12.74	28.02	3	Horizontal	337	1.08	-	27.63	5.61	-			
AV	2.3529G	48.28	54.00	-5.72	14.98	3	Horizontal	337	1.08	-	27.70	5.60	-			
PK	2.402G	105.15	Inf	-Inf	71.81	3	Horizontal	337	1.08	-	27.70	5.64	-			
AV	2.4019G	103.10	Inf	-Inf	69.76	3	Horizontal	337	1.08	-	27.70	5.64	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

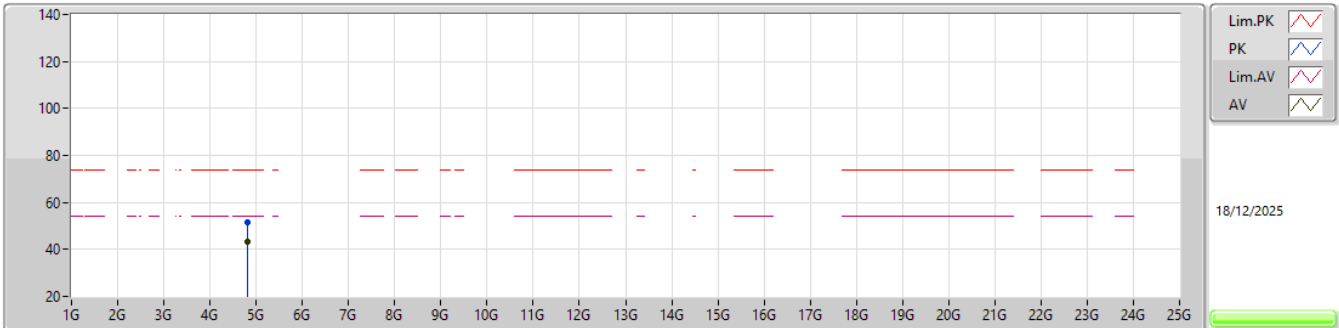


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.80395G	46.64	74.00	-27.36	49.94	3	Vertical	3	2.13	-	32.61	8.10	44.01			
AV	4.80294G	36.70	54.00	-17.30	40.00	3	Vertical	3	2.13	-	32.61	8.10	44.01			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

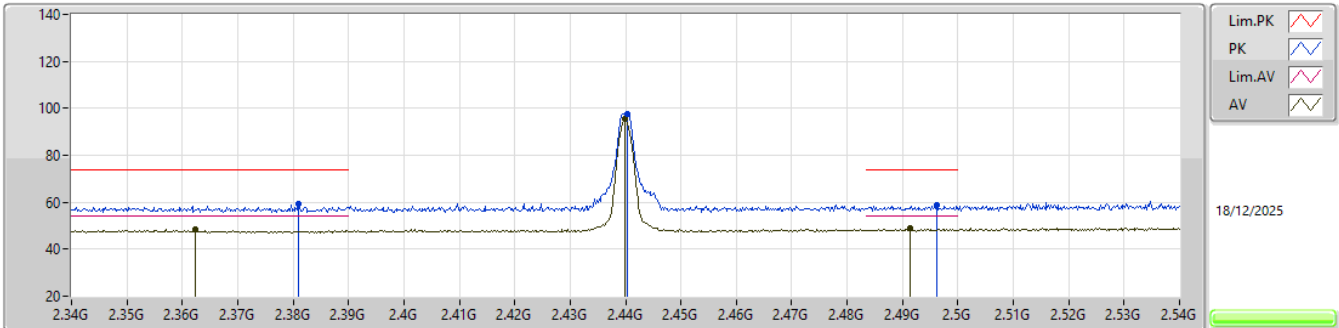


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.80285G	51.37	74.00	-22.63	54.67	3	Horizontal	297	2.85	-	32.61	8.10	44.01			
AV	4.80385G	43.14	54.00	-10.86	46.44	3	Horizontal	297	2.85	-	32.61	8.10	44.01			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

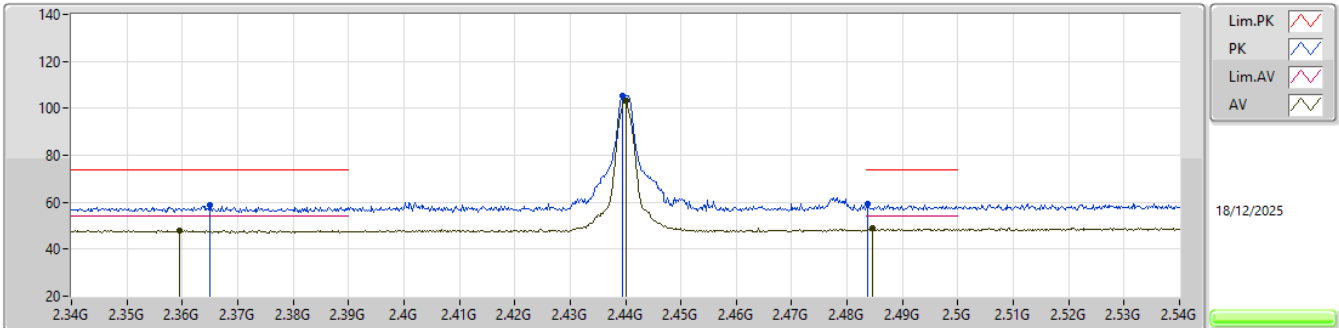


EUT_Y_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.381G	59.56	74.00	-14.44	26.43	3	Vertical	46	1.14	-	27.51	5.62	-				
AV	2.3624G	48.36	54.00	-5.64	15.10	3	Vertical	46	1.14	-	27.65	5.61	-				
PK	2.4404G	97.78	Inf	-Inf	64.41	3	Vertical	46	1.14	-	27.70	5.67	-				
AV	2.4398G	95.70	Inf	-Inf	62.33	3	Vertical	46	1.14	-	27.70	5.67	-				
PK	2.4962G	58.89	74.00	-15.11	25.11	3	Vertical	46	1.14	-	28.06	5.72	-				
AV	2.4914G	48.75	54.00	-5.25	15.02	3	Vertical	46	1.14	-	28.01	5.72	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

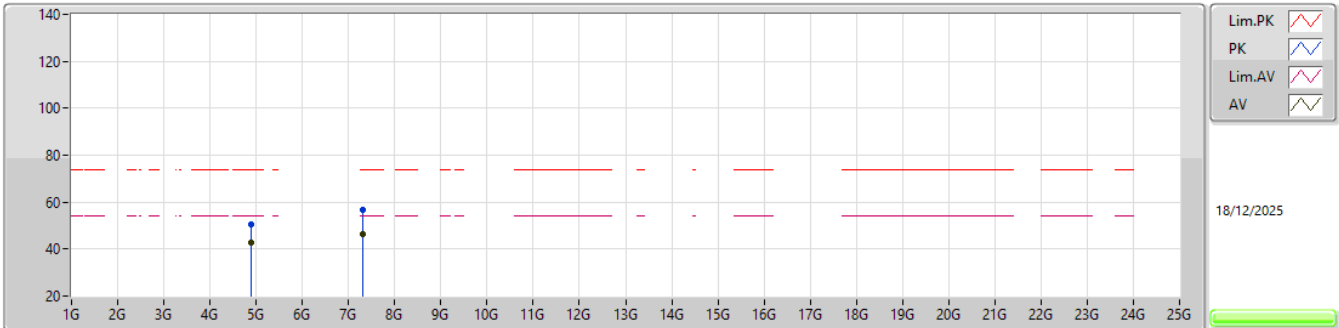


EUT_V_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.365G	58.59	74.00	-15.41	25.38	3	Horizontal	347	2.31	-	27.60	5.61	-			
AV	2.3594G	48.14	54.00	-5.86	14.83	3	Horizontal	347	2.31	-	27.70	5.61	-			
PK	2.4394G	105.52	Inf	-Inf	72.15	3	Horizontal	347	2.31	-	27.70	5.67	-			
AV	2.44G	103.49	Inf	-Inf	70.12	3	Horizontal	347	2.31	-	27.70	5.67	-			
PK	2.4838G	59.32	74.00	-14.68	25.67	3	Horizontal	347	2.31	-	27.94	5.71	-			
AV	2.4846G	48.83	54.00	-5.17	15.17	3	Horizontal	347	2.31	-	27.95	5.71	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

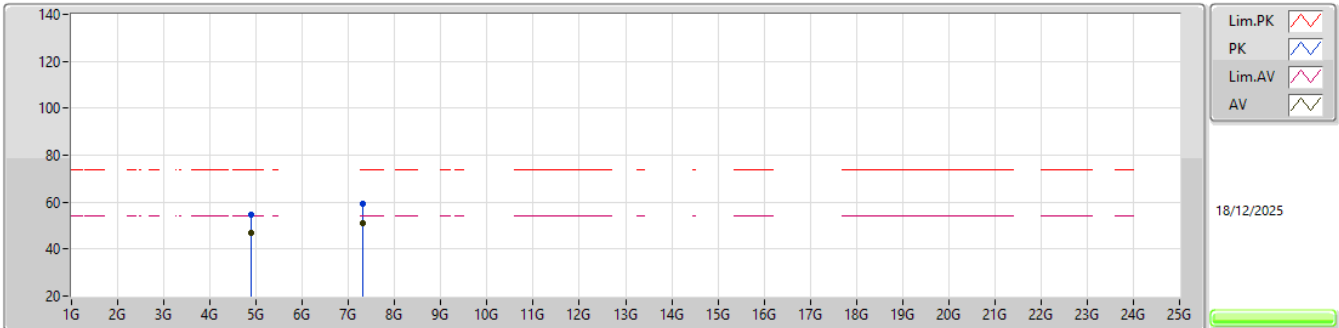


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88004G	50.34	74.00	-23.66	53.33	3	Vertical	316	1.06	-	32.82	8.18	43.99			
AV	4.87906G	42.57	54.00	-11.43	45.56	3	Vertical	316	1.06	-	32.82	8.18	43.99			
PK	7.31901G	56.57	74.00	-17.43	51.13	3	Vertical	136	2.65	-	37.60	10.39	42.55			
AV	7.31873G	46.15	54.00	-7.85	40.71	3	Vertical	136	2.65	-	37.60	10.39	42.55			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

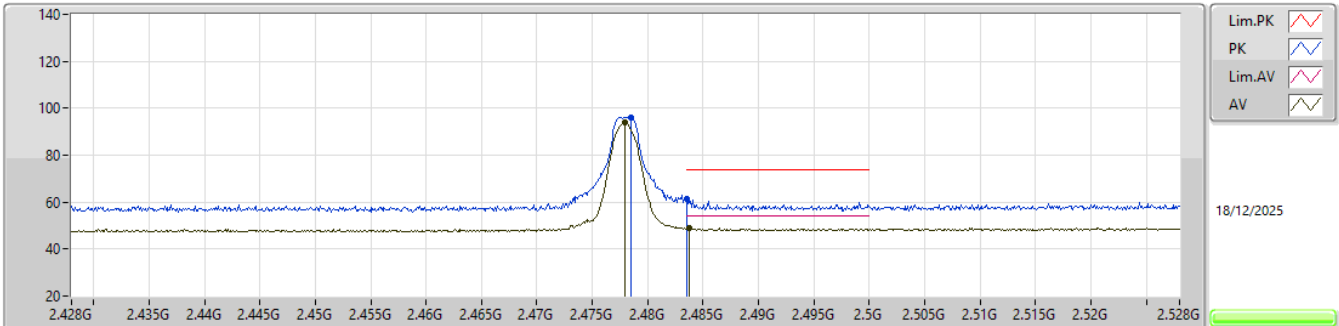


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87984G	54.42	74.00	-19.58	57.41	3	Horizontal	290	2.29	-	32.82	8.18	43.99			
AV	4.87902G	46.98	54.00	-7.02	49.97	3	Horizontal	290	2.29	-	32.82	8.18	43.99			
PK	7.3185G	59.52	74.00	-14.48	54.08	3	Horizontal	215	1.80	-	37.60	10.39	42.55			
AV	7.31873G	51.26	54.00	-2.74	45.82	3	Horizontal	215	1.80	-	37.60	10.39	42.55			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

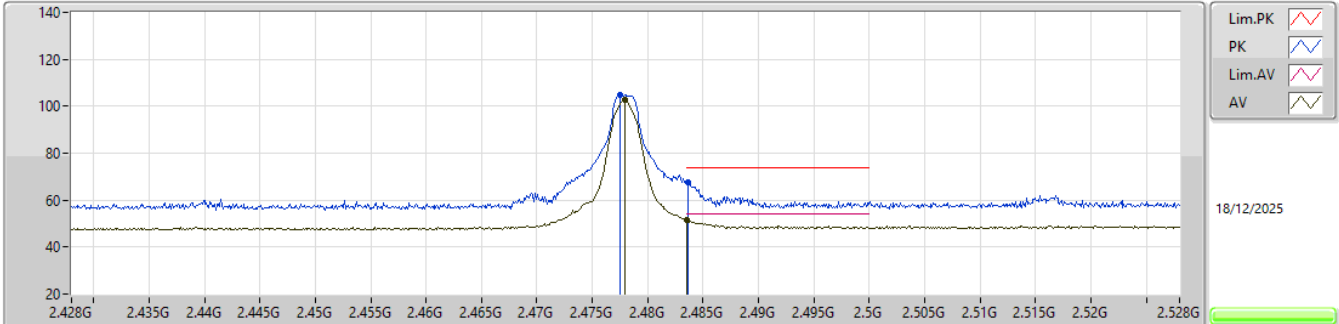


EUT_Y_1TX
Setting 060
04-W-A-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4785G	96.16	Inf	-Inf	62.57	3	Vertical	22	2.85	-	27.88	5.71	-				
AV	2.4779G	94.08	Inf	-Inf	60.49	3	Vertical	22	2.85	-	27.88	5.71	-				
PK	2.4835G	61.28	74.00	-12.72	27.63	3	Vertical	22	2.85	-	27.94	5.71	-				
AV	2.4837G	48.99	54.00	-5.01	15.34	3	Vertical	22	2.85	-	27.94	5.71	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

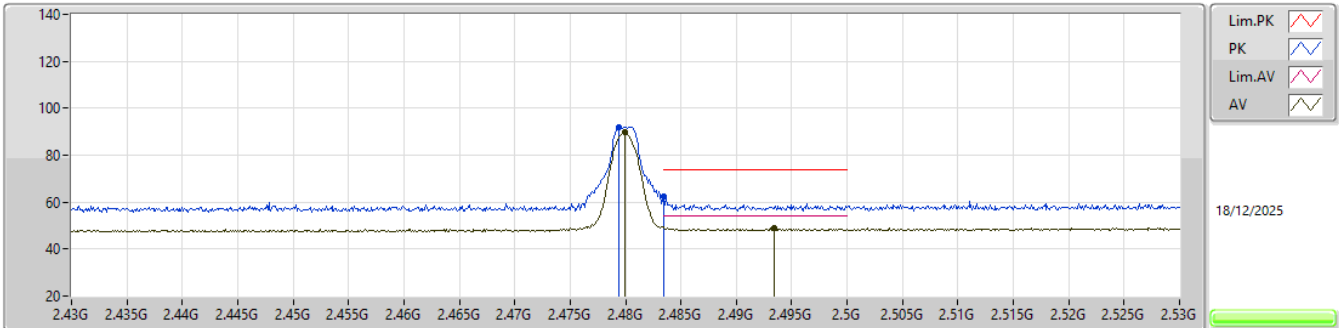


EUT Y_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4775G	104.71	Inf	-Inf	71.13	3	Horizontal	348	1.80	-	27.87	5.71	-				
AV	2.4779G	102.64	Inf	-Inf	69.05	3	Horizontal	348	1.80	-	27.88	5.71	-				
PK	2.4836G	67.74	74.00	-6.26	34.09	3	Horizontal	348	1.80	-	27.94	5.71	-				
AV	2.4835G	51.54	54.00	-2.46	17.89	3	Horizontal	348	1.80	-	27.94	5.71	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

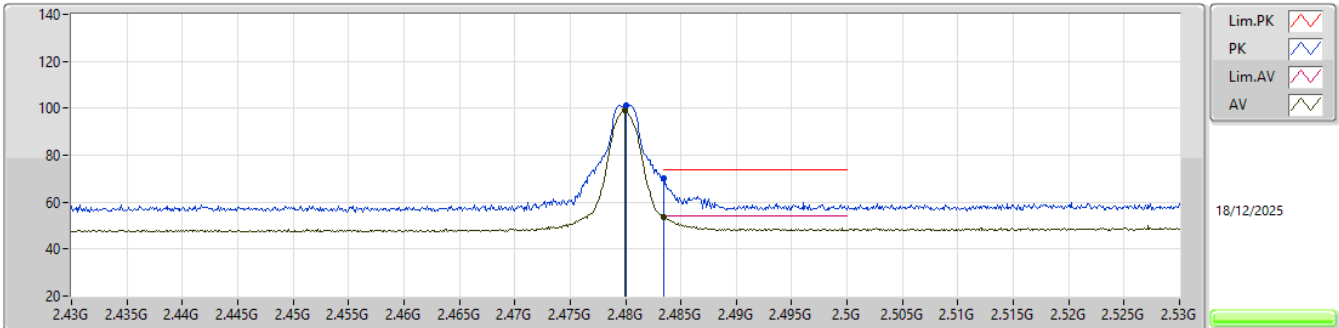


EUT_Y_1TX
Setting 005
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4794G	91.98	Inf	-Inf	58.38	3	Vertical	24	2.84	-	27.89	5.71	-				
AV	2.4799G	89.88	Inf	-Inf	56.27	3	Vertical	24	2.84	-	27.90	5.71	-				
PK	2.4835G	62.23	74.00	-11.77	28.58	3	Vertical	24	2.84	-	27.94	5.71	-				
AV	2.4934G	49.11	54.00	-4.89	15.36	3	Vertical	24	2.84	-	28.03	5.72	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

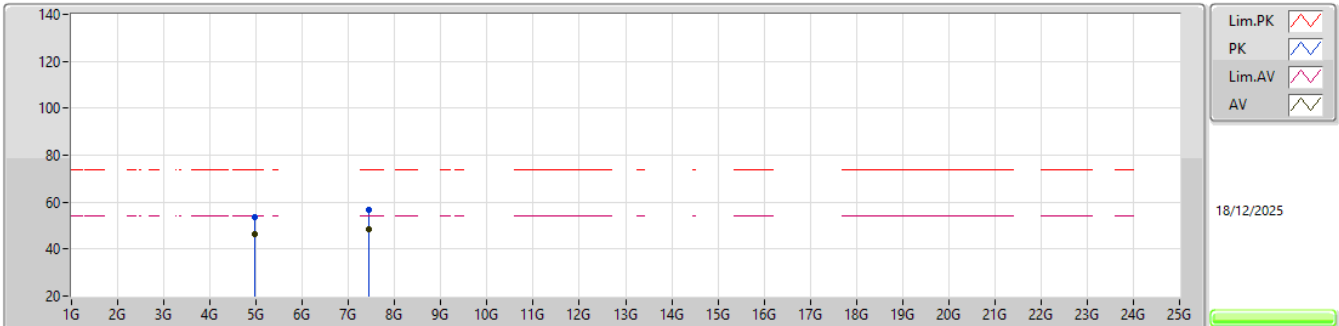


EUT Y_1TX
Setting 005
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.48G	101.08	Inf	-Inf	67.47	3	Horizontal	348	2.27	-	27.90	5.71	-				
AV	2.4799G	99.05	Inf	-Inf	65.44	3	Horizontal	348	2.27	-	27.90	5.71	-				
PK	2.4835G	69.96	74.00	-4.04	36.31	3	Horizontal	348	2.27	-	27.94	5.71	-				
AV	2.4835G	53.49	54.00	-0.51	19.84	3	Horizontal	348	2.27	-	27.94	5.71	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

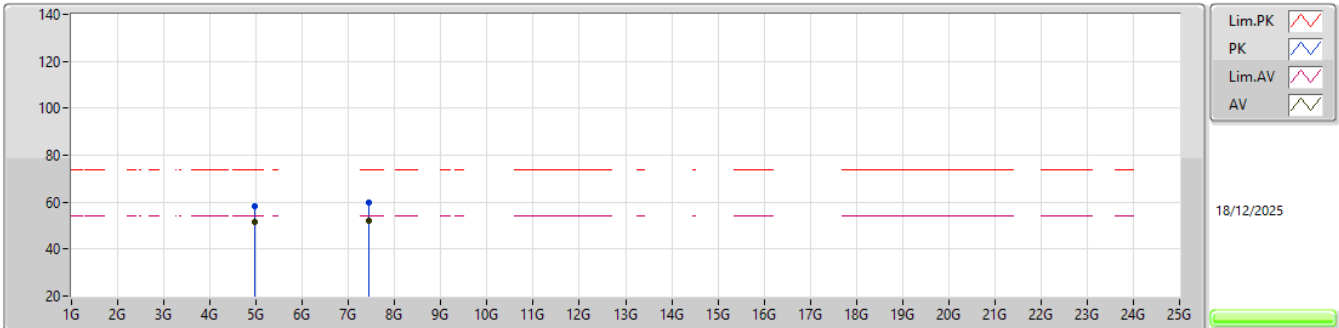


EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.95979G	53.85	74.00	-20.15	56.54	3	Vertical	288	1.00	-	33.00	8.27	43.96				
AV	4.95914G	46.21	54.00	-7.79	48.90	3	Vertical	288	1.00	-	33.00	8.27	43.96				
PK	7.43872G	56.50	74.00	-17.50	50.93	3	Vertical	324	2.19	-	37.60	10.45	42.48				
AV	7.43851G	48.61	54.00	-5.39	43.04	3	Vertical	324	2.19	-	37.60	10.45	42.48				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT_Z_1TX
Setting 060
04-W-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.95995G	58.35	74.00	-15.65	61.04	3	Horizontal	292	2.32	-	33.00	8.27	43.96			
AV	4.95897G	51.50	54.00	-2.50	54.19	3	Horizontal	292	2.32	-	33.00	8.27	43.96			
PK	7.43975G	59.84	74.00	-14.16	54.27	3	Horizontal	73	2.21	-	37.60	10.45	42.48			
AV	7.43859G	51.87	54.00	-2.13	46.30	3	Horizontal	73	2.21	-	37.60	10.45	42.48			