



RADIO TEST REPORT

FCC ID : TLZ-CU668
Equipment : IEEE802.11 a/b/g/n/ac/ax and Bluetooth LE 5.4 LGA Module
Brand Name : AzureWave
Model Name : AW-CU668, AW-CU680, AW-CU712
Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City ,
Taiwan 231
Manufacturer : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City ,
Taiwan 231
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 03, 2025, and testing was started from Jul. 14, 2025 and completed on Oct. 04, 2025. 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: Rex Liao

Sporton International Inc. Hsinchu Laboratory

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TEL : 886-3-656-9065
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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: Sophia Shiung



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
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500Kb/s)	1.0	1TX
2.4-2.4835GHz	BT-LE(125Kb/s)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						WLAN 2.4GHz / Bluetooth	WLAN 5GHz / 6GHz
1	1	ARISTOTLE	RFA-27-JP326MHF4C198	PIFA	I-Pex	3.5	5
2	-		RFA-27-JP326-C198				

Note 1: The Ant. 1 and Ant. 2 are identical in type and gain, and the Ant. 1 was selected as representative antenna for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

Note 3: **For WLAN 2.4GHz function:**

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

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

For WLAN 5GHz function:

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

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

For WLAN 6GHz function:

For IEEE 802.11 ax (1TX/1RX):

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

For Bluetooth function (1TX/1RX):

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

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
2.4-2.4835GHz_BT-LE(1Mbps)	0.626	2.03	391.875u	3k
2.4-2.4835GHz_BT-LE(2Mbps)	0.313	5.04	195.937u	10k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From host system (3.3 VDC)			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	ARIOC Bluetooth Test and Debug Tool Ver 1.4			
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 for Multiple Listing

Model Name	Chipset	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth
AW-CU668	CYW55913	✓	✓	✓	✓
AW-CU680	CYW55912	✓	✓	×	✓
AW-CU712	CYW55911	✓	×	×	✓

Note 1: The EUT has three model names that are identical in all aspects except for the supported wireless functionalities. The wireless differences are implemented solely through software configuration, with the firmware being the same and requiring no hardware changes.

Note 2: From the models above, model "AW-CU668" was selected to test.

Note 3: The EUT can only function WLAN 2.4GHz, 5GHz, 6GHz or Bluetooth at a time.

Note 4: 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	TH03-CB	Owen Hsu	21.7~23.1 / 58~61	Jul. 18, 2025~ Jul. 21, 2025
Radiated < 1GHz	03CH01-CB	Gordon Hung	22.1-23.1 / 60-62	Jul. 14, 2025~ Jul. 19, 2025
		Viola Huang		Jul. 17, 2025~ Aug. 14, 2025
Radiated > 1GHz	03CH01-CB	Viola Huang	22.1-23.1 / 60-62	Jul. 17, 2025~ Aug. 14, 2025
AC Conduction	CO01-CB	Tim Chen	23~24 / 61~62	Oct. 03, 2025~ Oct. 04, 2025



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)	4.7 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
2480MHz

Note:

- ♦ 1Mbps, 500Kb/s, and 125Kb/s modes were the same bandwidth. The 1Mbps mode generated the worst case; thus it was selected to test.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	EUT_WLAN 2.4GHz
2	EUT_WLAN 5GHz
3	EUT_WLAN 6GHz
4	EUT_Bluetooth
For operating, mode 1 is the worst case and it was recorded 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	CTX The EUT was performed at X axis, Y axis and Z axis positions for each band in Radiated measurement above 1GHz, and the worst cases were found as below. Thus, the measurement will follow these same test configurations.
1	EUT in Y axis_WLAN 2.4GHz
2	EUT in Z axis_WLAN 5GHz
3	EUT in Z axis_WLAN 6GHz
4	EUT in Y axis_Bluetooth
For operating, mode 3 is the worst case and it was recorded in this test report.	
Operating Mode > 1GHz	CTX The EUT was performed at X axis, Y axis and Z axis positions, and the worst case was found as below. Thus, the measurement will follow this same test configuration.
1	EUT in Y axis_Bluetooth



2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

2.5 Support Equipment

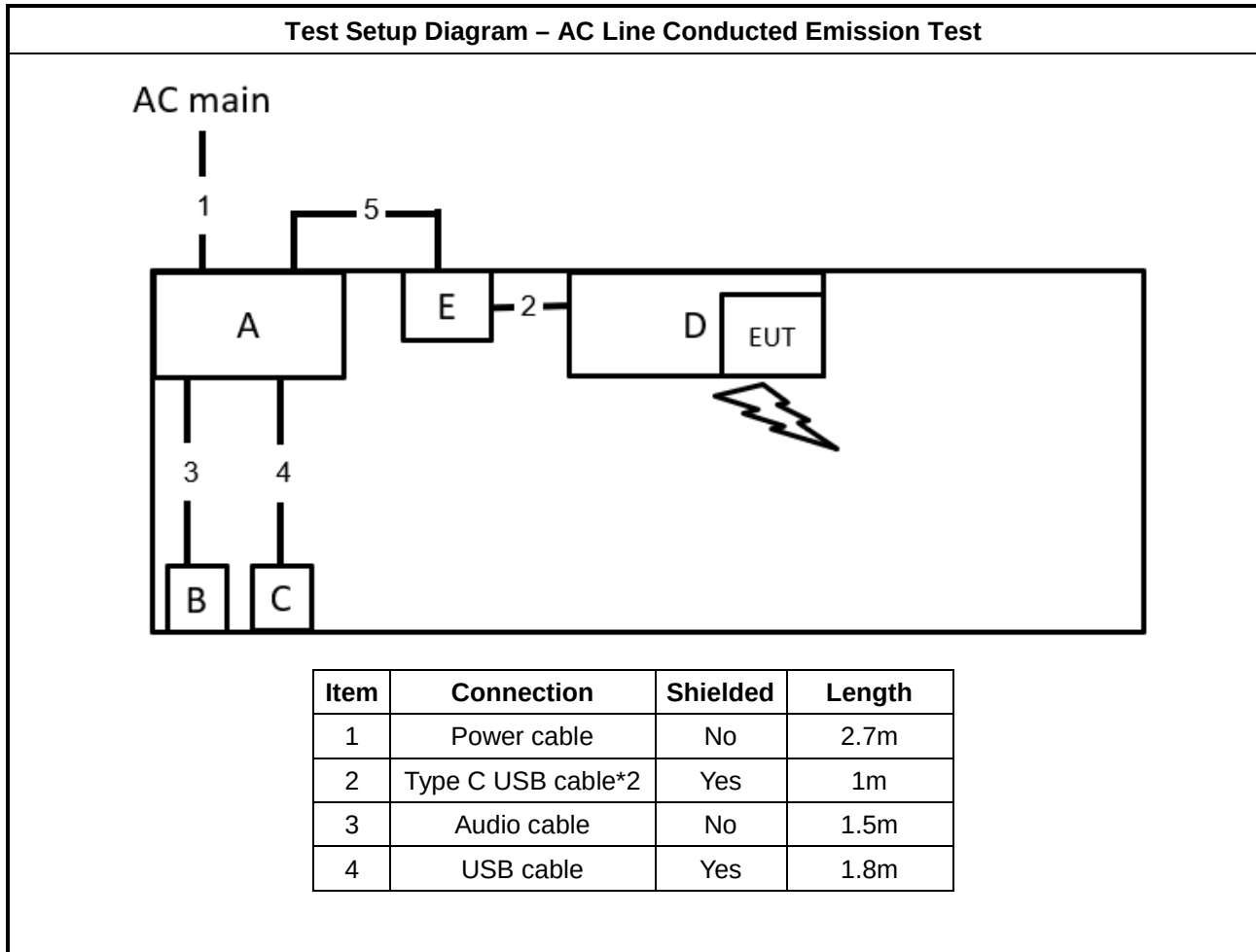
For AC Conduction:

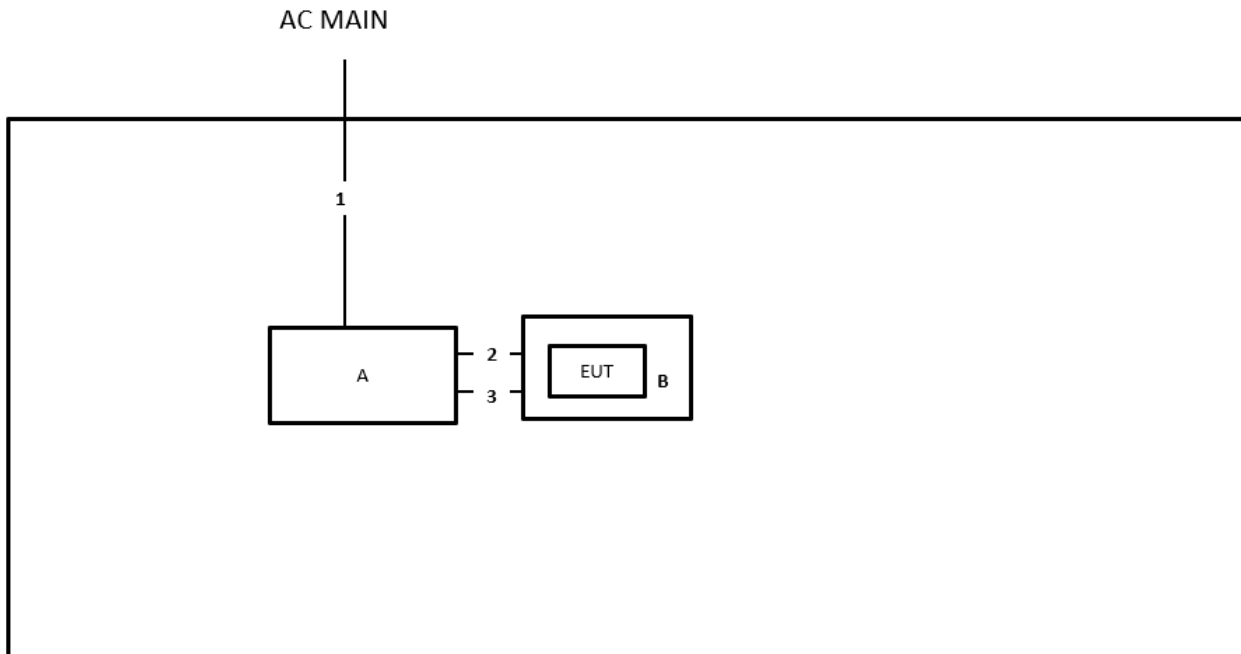
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Earphone	e-Power	GT-02	N/A
C	Mouse	acer	MOJFUO	N/A
D	Fixture	AzureWave	2668-I03	N/A
E	USB HUB	TekRepublic	TUN-310	N/A

For RF Conducted and Radiated:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Fixture	AzureWave	2668-I03	N/A

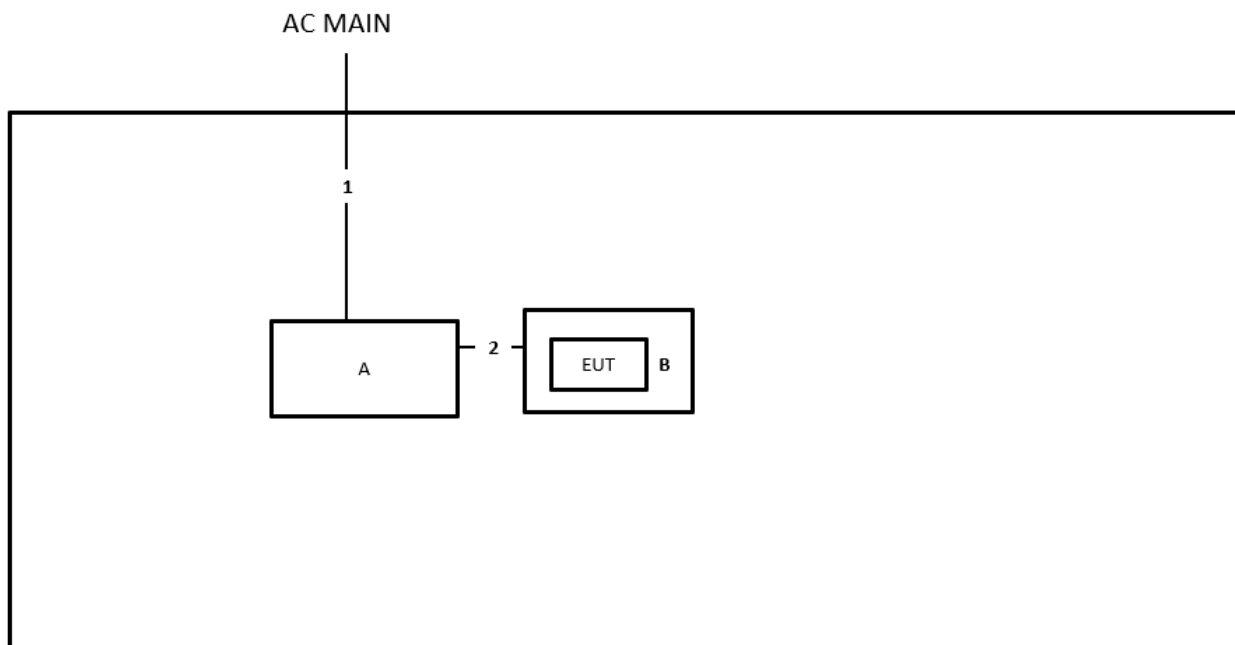
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	USB to TypeC cable	Yes	1m
3	USB to TypeC cable	Yes	1m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	USB to TypeC cable	Yes	1m



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.		

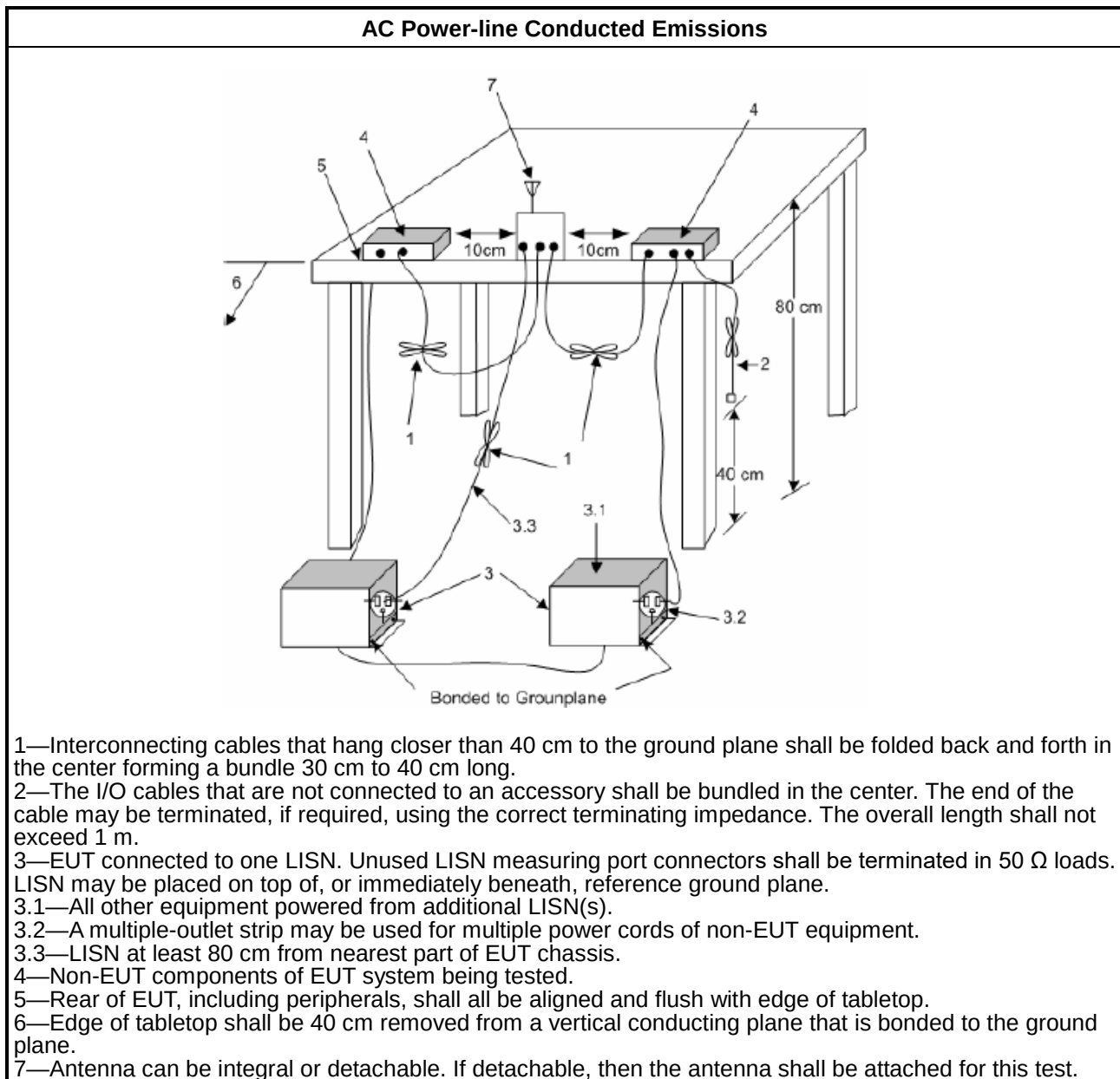
3.1.2 Measuring Instruments

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:

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

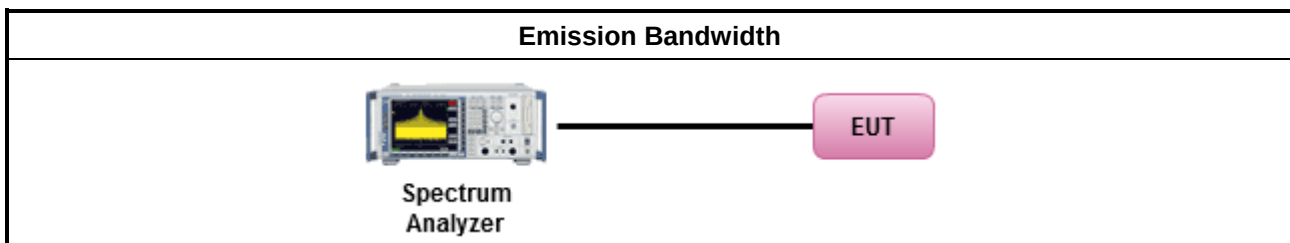
3.2.2 Measuring Instruments

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 $\geq$ 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 $\geq$ 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

Maximum Conducted Output Power (Power Meter)



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

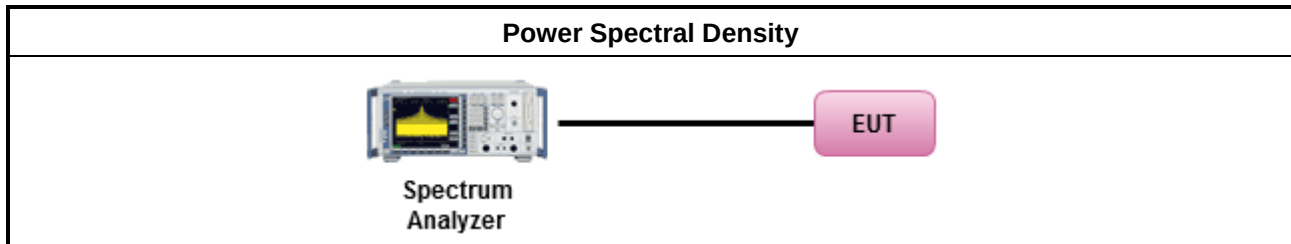
3.4.2 Measuring Instruments

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.	

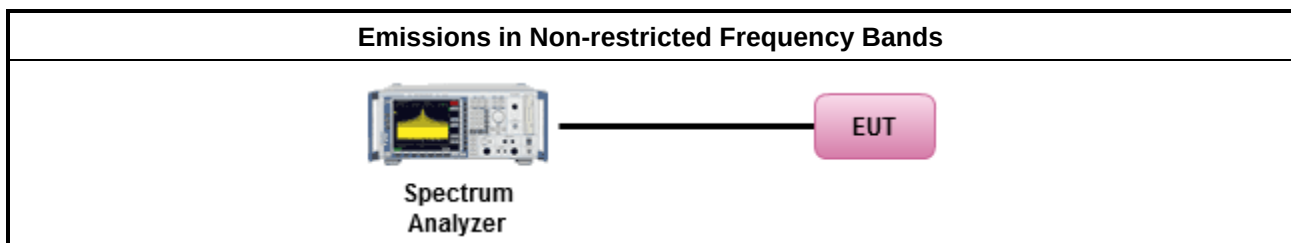
3.5.2 Measuring Instruments

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

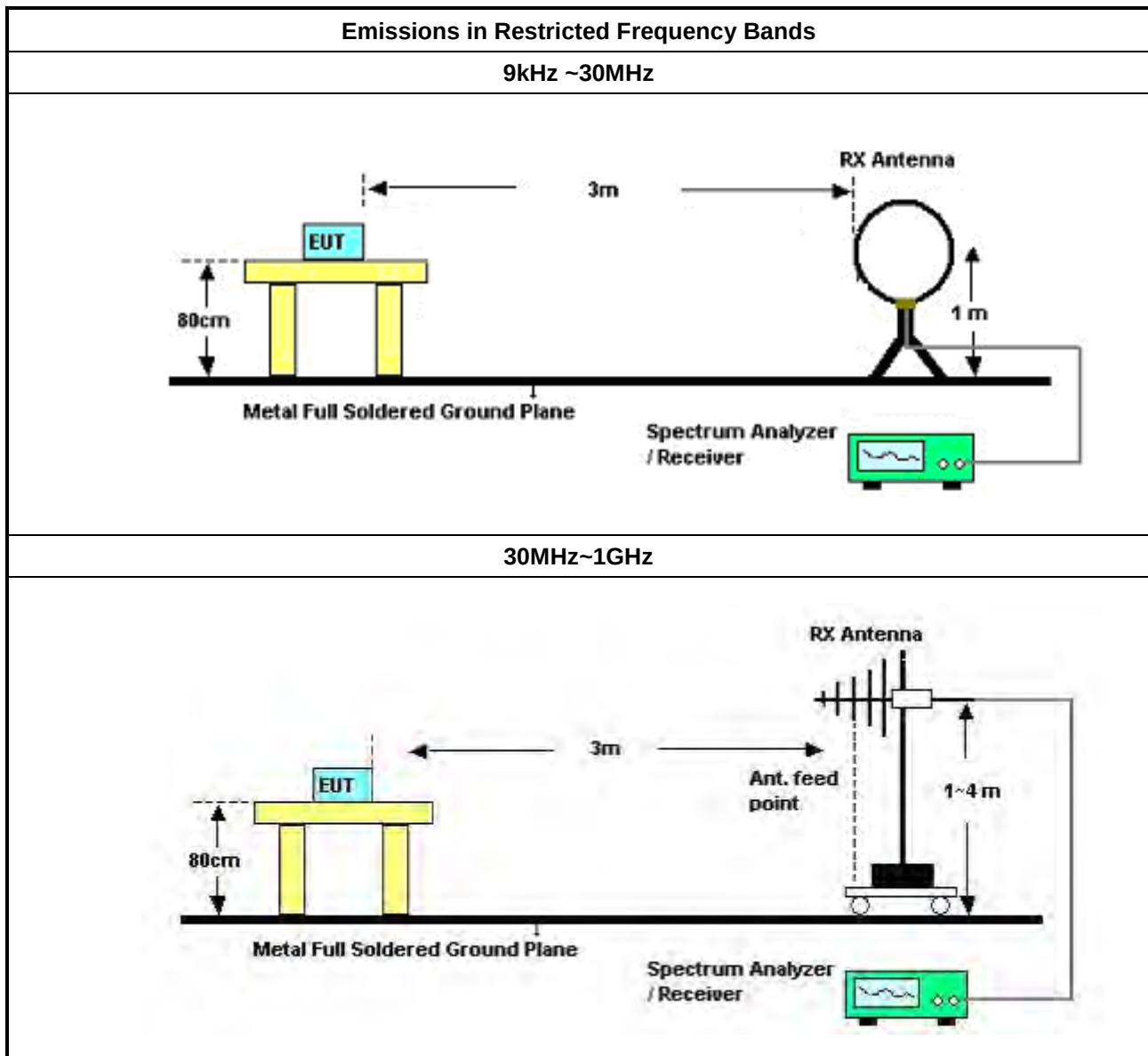
Refer a test equipment and calibration data table in this test report.

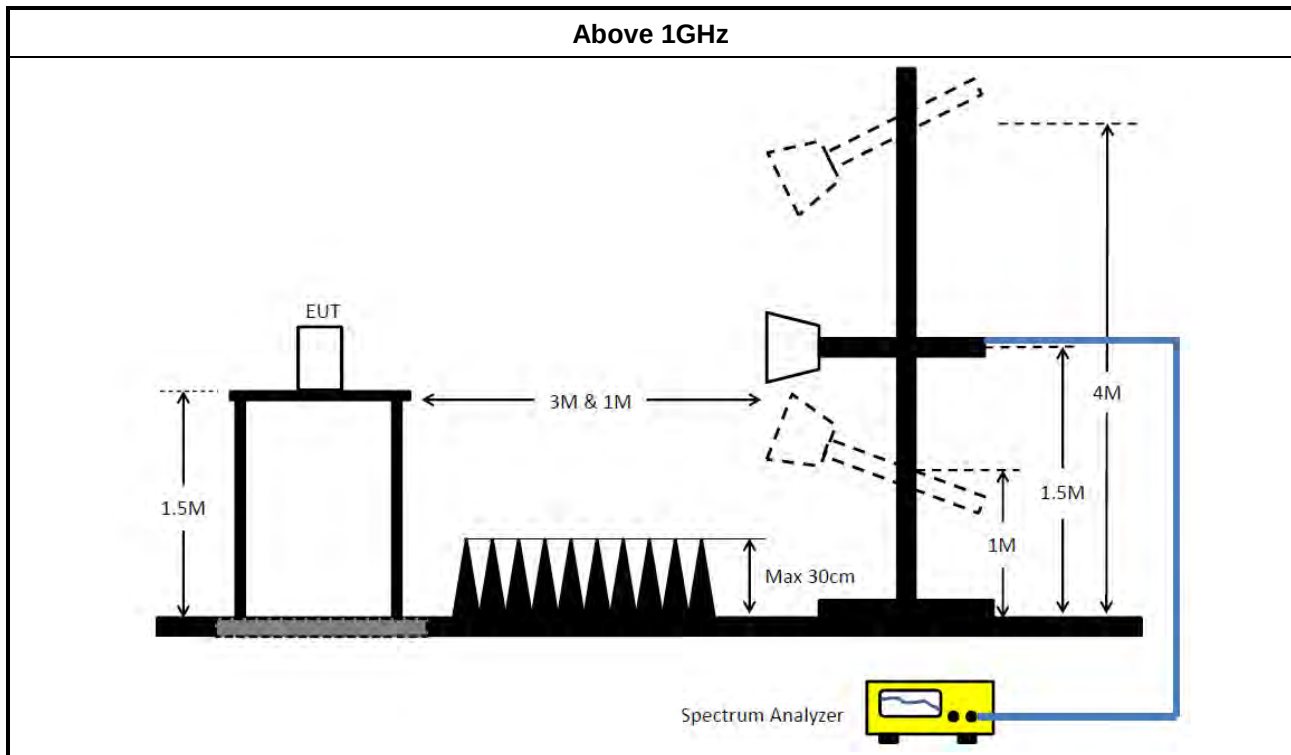


3.6.3 Test Procedures

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	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 17, 2024	Oct. 16, 2025	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 16, 2025	Jan. 15, 2026	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 03, 2025	May 02, 2026	Radiation (03CH01-CB)
Bilog Antenna with 6dB Attenuator	Schaffner & EMCI	CBL6112B& N-6-06	2888&AT-N060 5	30MHz ~ 1GHz	Jan. 17, 2025	Jan. 16, 2026	Radiation (03CH01-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz	Oct. 18, 2024	Oct. 17, 2025	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 21, 2025	Jun. 20, 2026	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 16, 2025	May 15, 2026	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Dec. 12, 2024	Dec. 11, 2025	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-31+32	30 MHz ~ 1 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 02, 2025	Jan. 01, 2026	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.



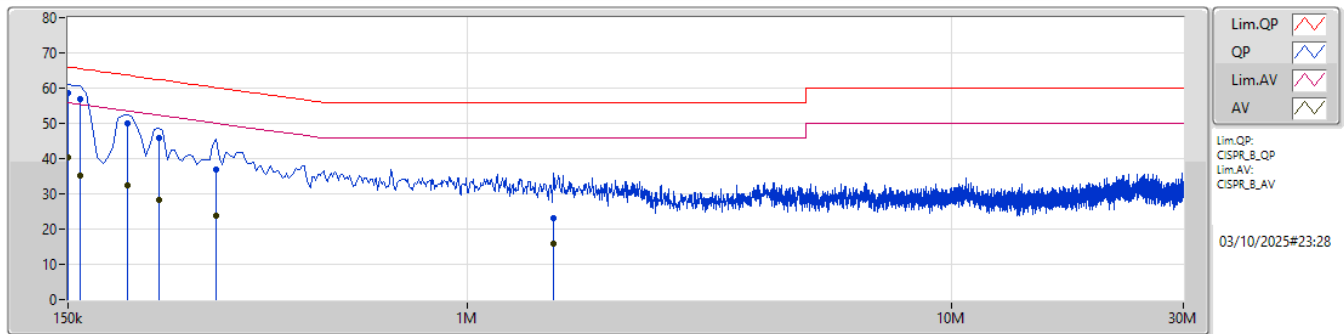
Conducted Emissions at Powerline

Appendix A

Summary

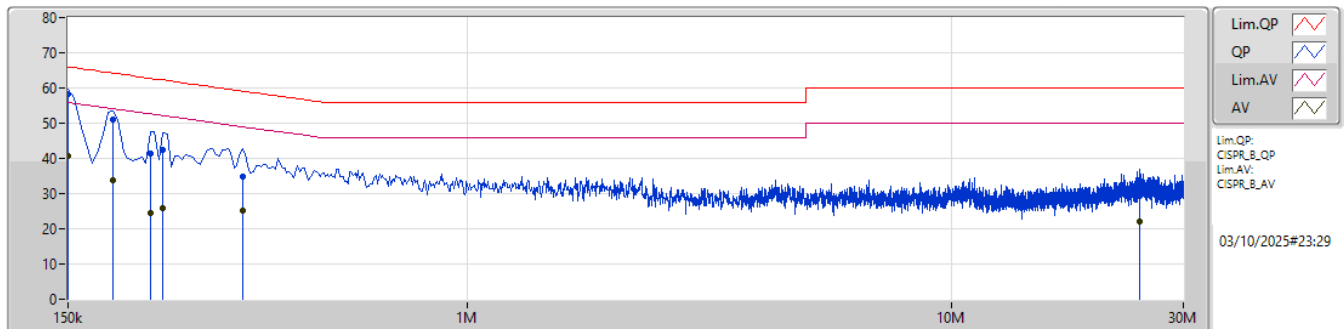
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	58.76	66.00	-7.24	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	58.76	66.00	-7.24	10.04	Line	"Worst"	48.72	0.05	0.08	9.91						
AV	150k	40.20	56.00	-15.80	10.04	Line	-	30.16	0.05	0.08	9.91						
QP	159k	56.96	65.52	-8.56	10.05	Line	-	46.91	0.05	0.08	9.92						
AV	159k	35.22	55.52	-20.30	10.05	Line	-	25.17	0.05	0.08	9.92						
QP	199.5k	50.09	63.63	-13.54	10.08	Line	-	40.01	0.06	0.07	9.95						
AV	199.5k	32.46	53.63	-21.17	10.08	Line	-	22.38	0.06	0.07	9.95						
QP	231k	45.85	62.41	-16.56	10.11	Line	-	35.74	0.06	0.08	9.97						
AV	231k	28.40	52.41	-24.01	10.11	Line	-	18.29	0.06	0.08	9.97						
QP	303k	36.98	60.17	-23.19	10.16	Line	-	26.82	0.05	0.09	10.02						
AV	303k	23.84	50.17	-26.33	10.16	Line	-	13.68	0.05	0.09	10.02						
QP	1.509M	23.22	56.00	-32.78	10.25	Line	-	12.97	0.09	0.12	10.04						
AV	1.509M	15.90	46.00	-30.10	10.25	Line	-	5.65	0.09	0.12	10.04						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	58.36	66.00	-7.64	10.07	Neutral	"Worst"	48.29	0.08	0.08	9.91						
AV	150k	40.62	56.00	-15.38	10.07	Neutral	-	30.55	0.08	0.08	9.91						
QP	186k	51.08	64.20	-13.12	10.09	Neutral	-	40.99	0.08	0.07	9.94						
AV	186k	33.74	54.20	-20.46	10.09	Neutral	-	23.65	0.08	0.07	9.94						
QP	222k	41.27	62.75	-21.48	10.12	Neutral	-	31.15	0.08	0.07	9.97						
AV	222k	24.63	52.75	-28.12	10.12	Neutral	-	14.51	0.08	0.07	9.97						
QP	235.5k	42.49	62.25	-19.76	10.14	Neutral	-	32.35	0.08	0.08	9.98						
AV	235.5k	25.90	52.25	-26.35	10.14	Neutral	-	15.76	0.08	0.08	9.98						
QP	343.5k	34.83	59.12	-24.29	10.21	Neutral	-	24.62	0.08	0.09	10.04						
AV	343.5k	25.34	49.12	-23.78	10.21	Neutral	-	15.13	0.08	0.09	10.04						
QP	24.315M	29.27	60.00	-30.73	10.65	Neutral	-	18.62	0.39	0.31	9.95						
AV	24.315M	22.14	50.00	-27.86	10.65	Neutral	-	11.49	0.39	0.31	9.95						

**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)	745k	1.062M	1M06F1D	642.5k	1.039M
BT-LE(2Mbps)	1.275M	2.073M	2M07F1D	1.07M	2.066M

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

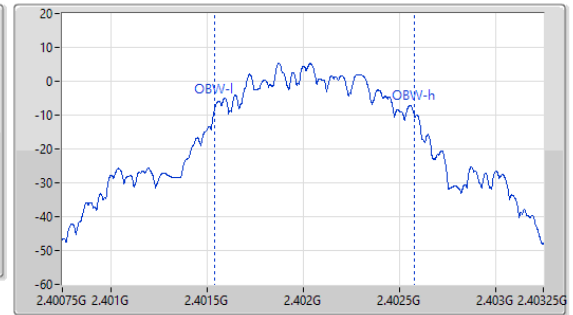
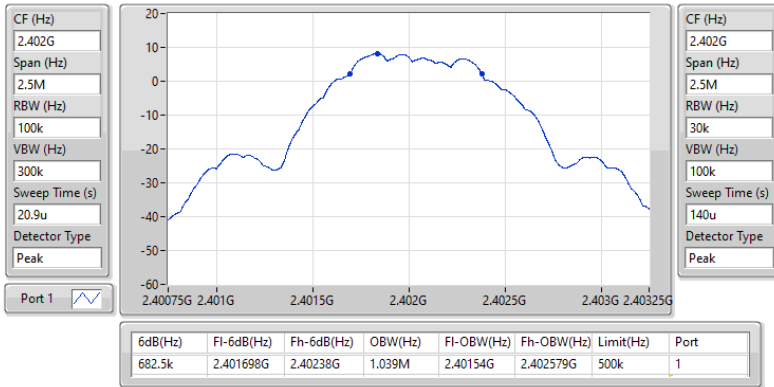
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	682.5k	1.039M
2440MHz	Pass	500k	642.5k	1.062M
2480MHz	Pass	500k	745k	1.053M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.21M	2.07M
2440MHz	Pass	500k	1.275M	2.073M
2480MHz	Pass	500k	1.07M	2.066M

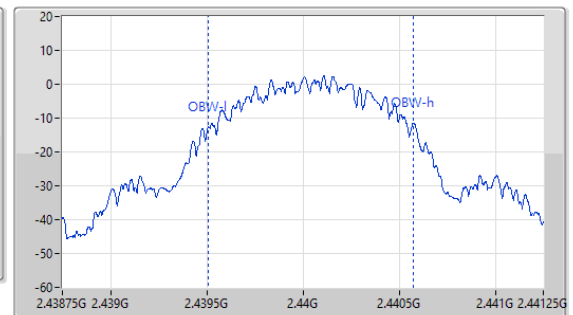
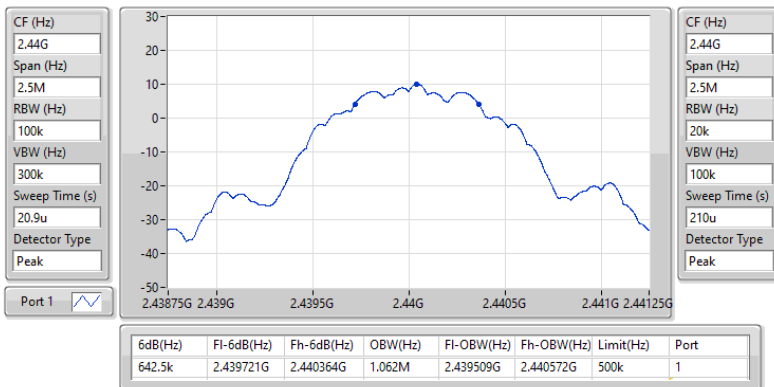
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

18/07/2025


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

18/07/2025

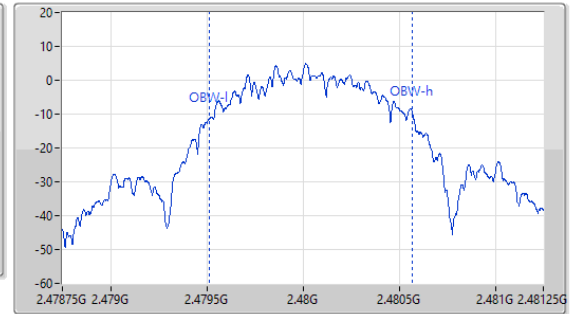
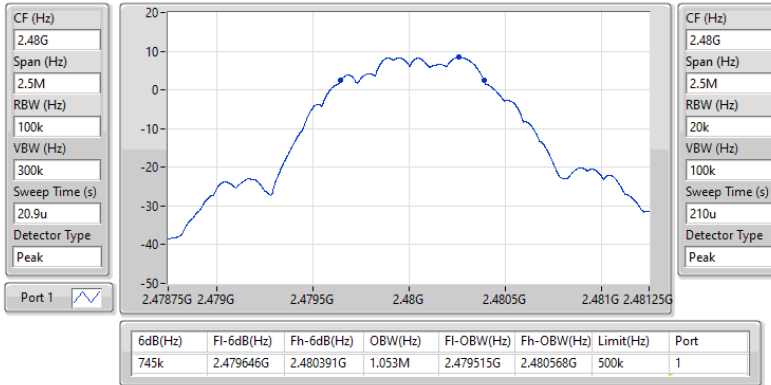


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

18/07/2025

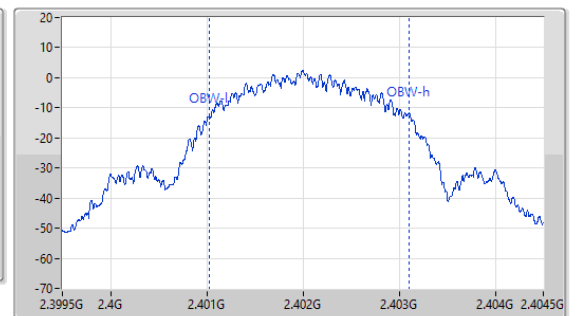
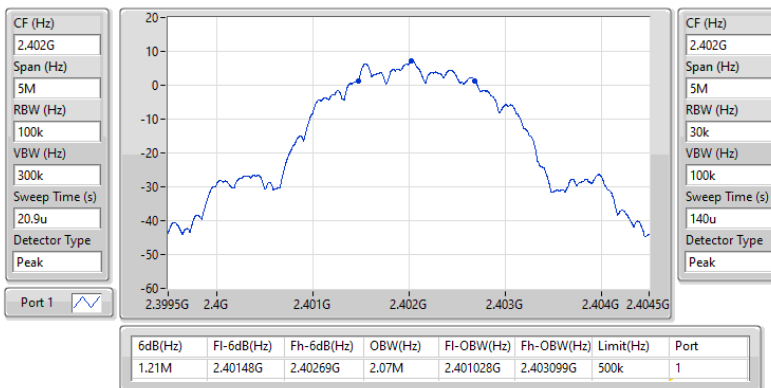


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2402MHz

18/07/2025

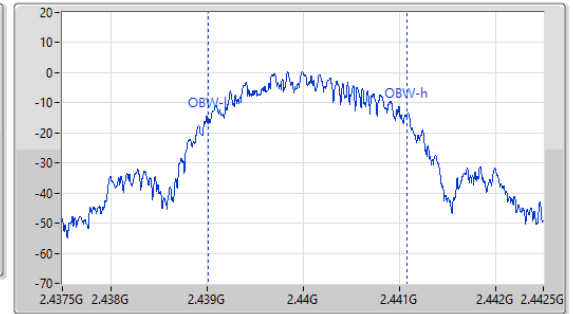
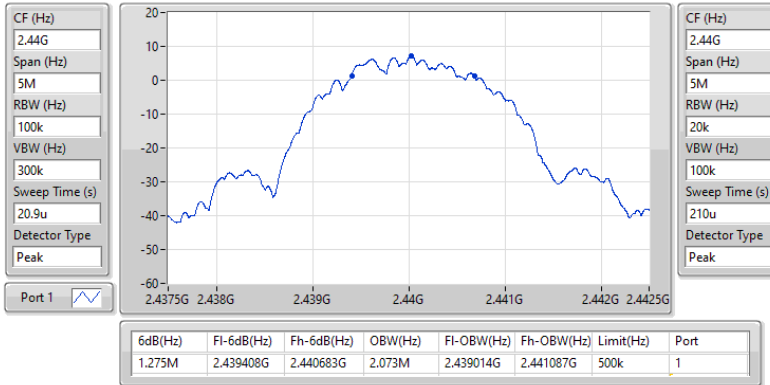


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

18/07/2025

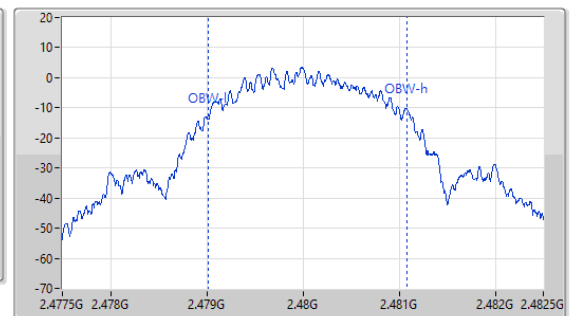
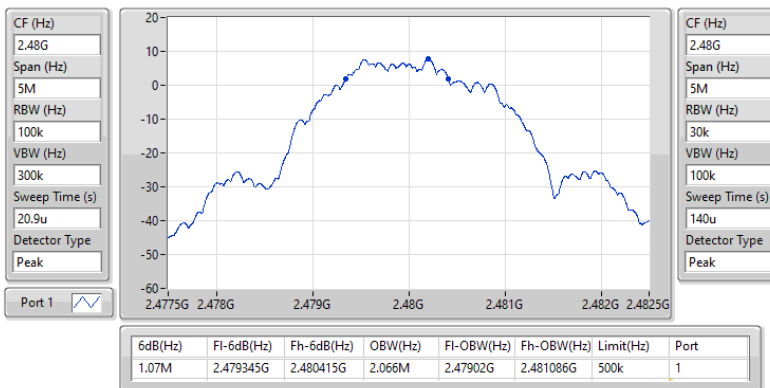


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

18/07/2025





Average Power-DTS

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	10.79	0.01199
BT-LE(2Mbps)	10.59	0.01146

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	10.47	30.00
2440MHz	Pass	3.50	10.48	30.00
2480MHz	Pass	3.50	10.79	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.50	10.30	30.00
2440MHz	Pass	3.50	10.30	30.00
2480MHz	Pass	3.50	10.59	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)	-4.56
BT-LE(2Mbps)	-8.43

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	-5.20	8.00
2440MHz	Pass	3.50	-5.36	8.00
2480MHz	Pass	3.50	-4.56	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.50	-8.43	8.00
2440MHz	Pass	3.50	-8.73	8.00
2480MHz	Pass	3.50	-8.85	8.00

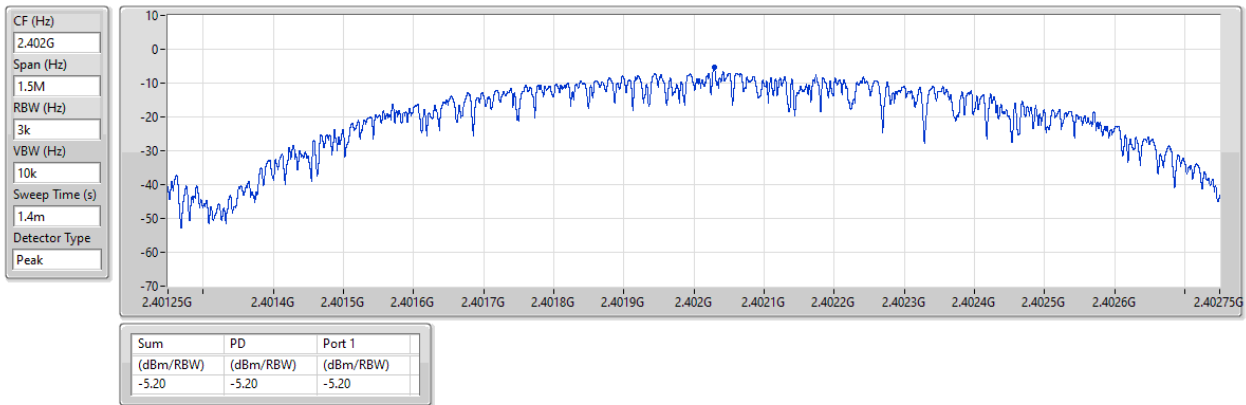
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

18/07/2025

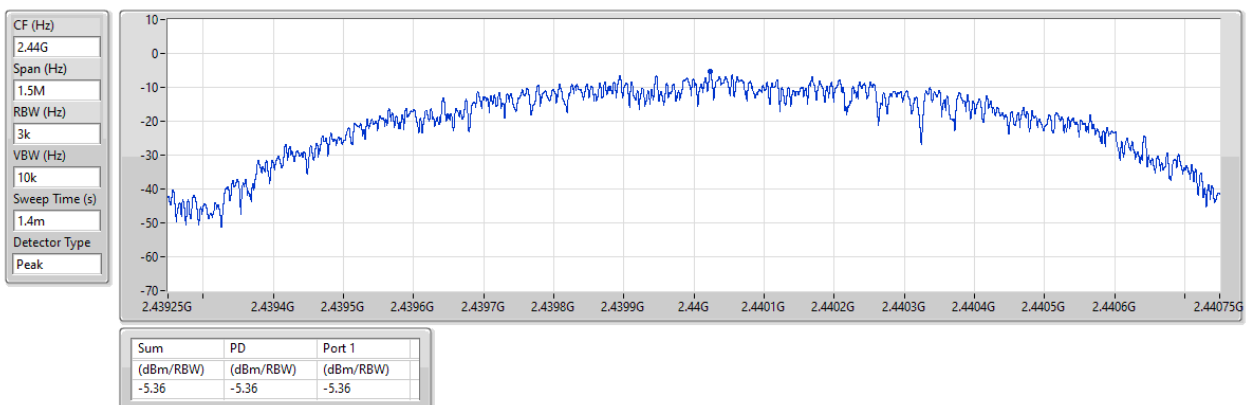


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

18/07/2025

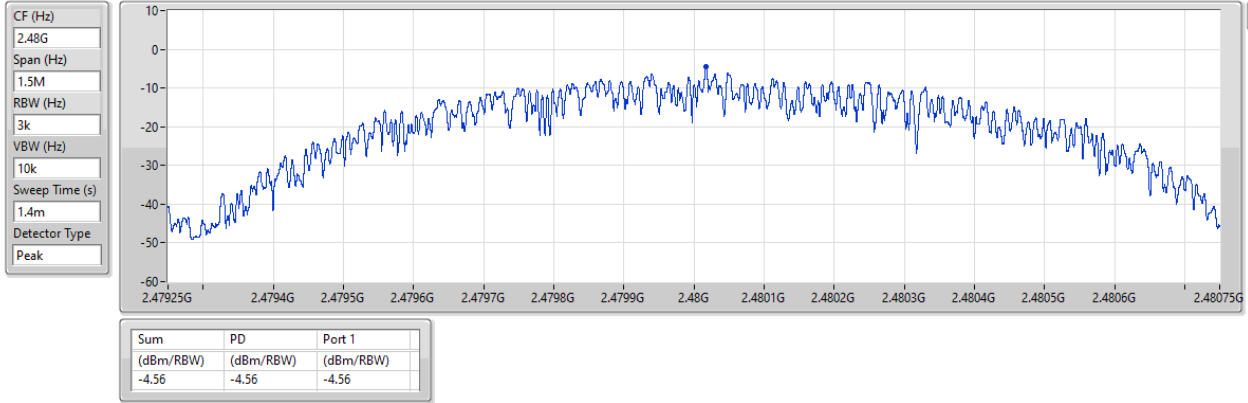


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

18/07/2025

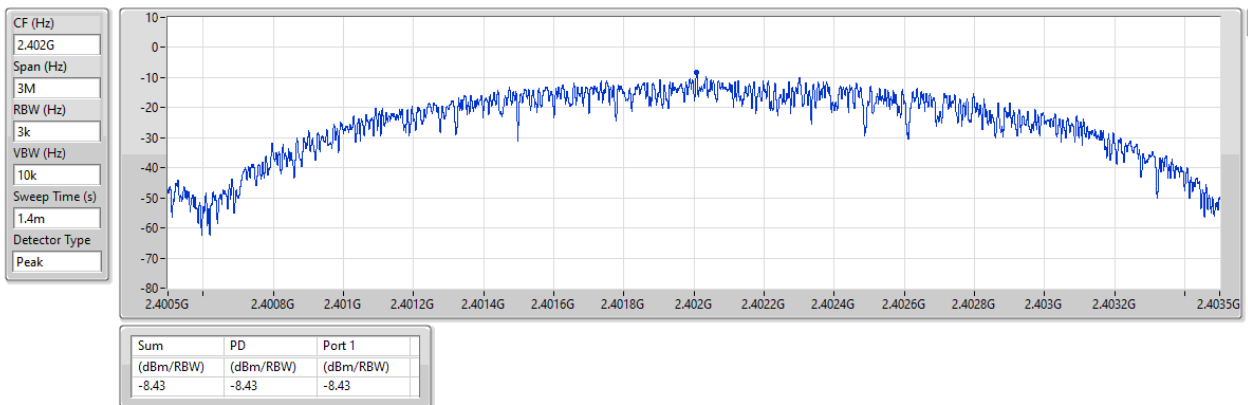


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

18/07/2025

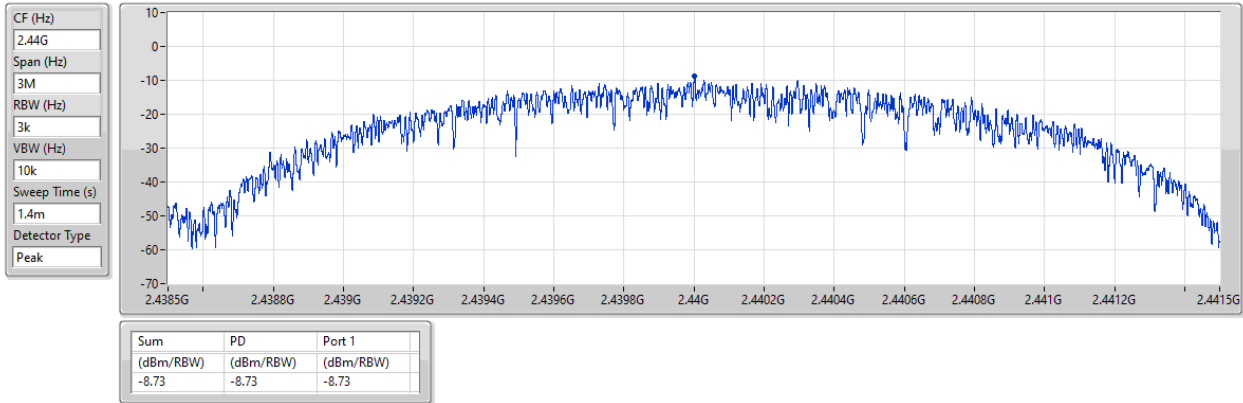


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

18/07/2025

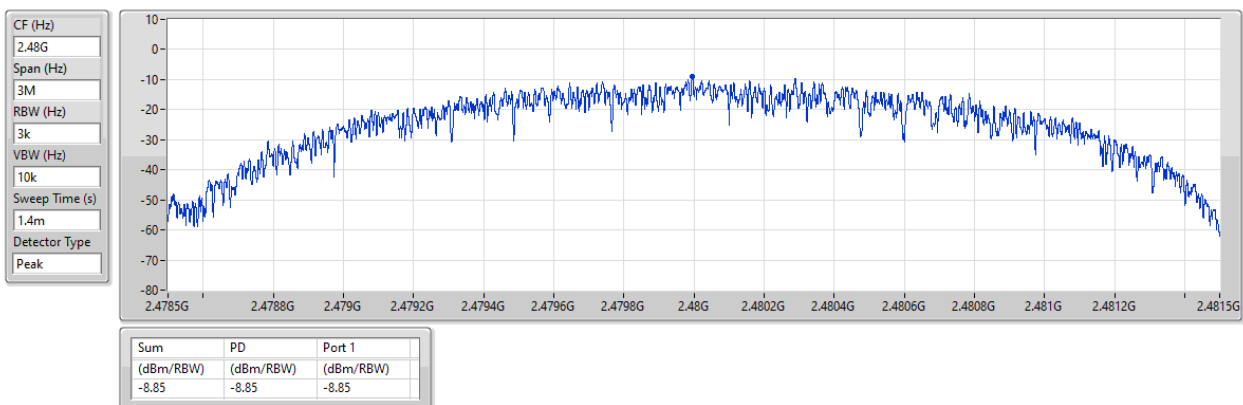


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

18/07/2025



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	2.48016G	10.44	-19.56	2.1262G	-53.66	2.39996G	-40.38	2.4G	-37.55	2.50202G	-54.39	21.97422G	-46.50	1
BT-LE(2Mbps)	Pass	2.48016G	9.33	-20.67	1.65855G	-53.71	2.4G	-26.16	2.4G	-24.45	2.50058G	-54.66	21.97422G	-46.86	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	2.48016G	10.44	-19.56	2.1262G	-53.66	2.39996G	-40.38	2.4G	-37.55	2.50202G	-54.39	21.97422G	-46.50	1
2440MHz	Pass	2.48016G	10.44	-19.56	1.9429G	-54.11	2.39212G	-54.35	2.4G	-55.29	2.5001G	-53.73	21.97141G	-47.11	1
2480MHz	Pass	2.48016G	10.44	-19.56	2.3095G	-53.58	2.39704G	-54.33	2.4G	-56.44	2.5021G	-53.76	21.70426G	-47.02	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48016G	9.33	-20.67	1.65855G	-53.71	2.4G	-26.16	2.4G	-24.45	2.50058G	-54.66	21.97422G	-46.86	1
2440MHz	Pass	2.48016G	9.33	-20.67	1.78428G	-54.08	2.39856G	-54.33	2.4G	-57.70	2.50238G	-54.74	23.17497G	-46.95	1
2480MHz	Pass	2.48016G	9.33	-20.67	1.86418G	-54.02	2.39804G	-54.18	2.4G	-54.49	2.50162G	-54.98	21.68177G	-46.57	1

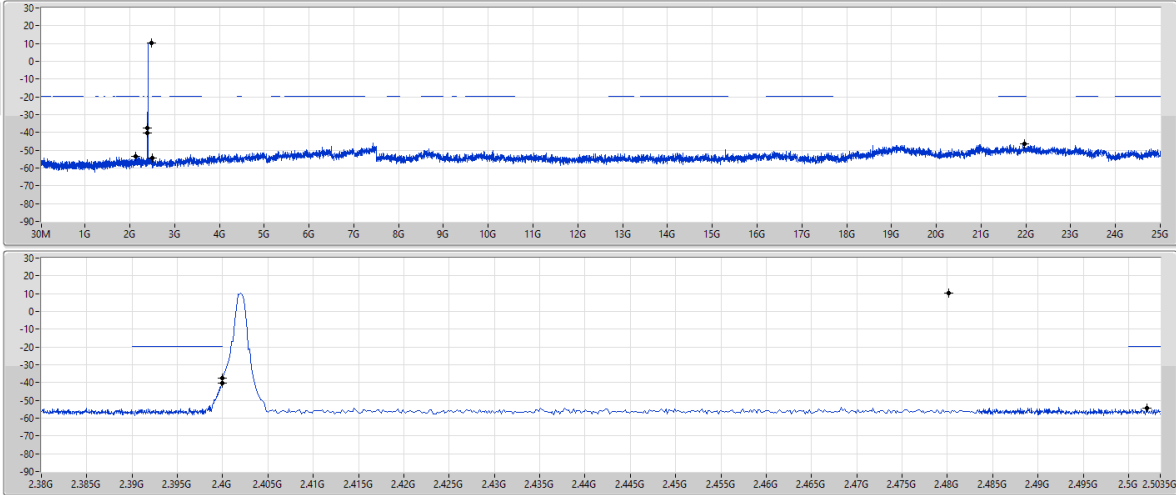
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

18/07/2025

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
2.48016G	10.44	-19.56	2.1262G	-53.66	2.39996G	-40.38	2.4G	-37.55	2.50202G	-54.39	2.197422G	-46.50	1

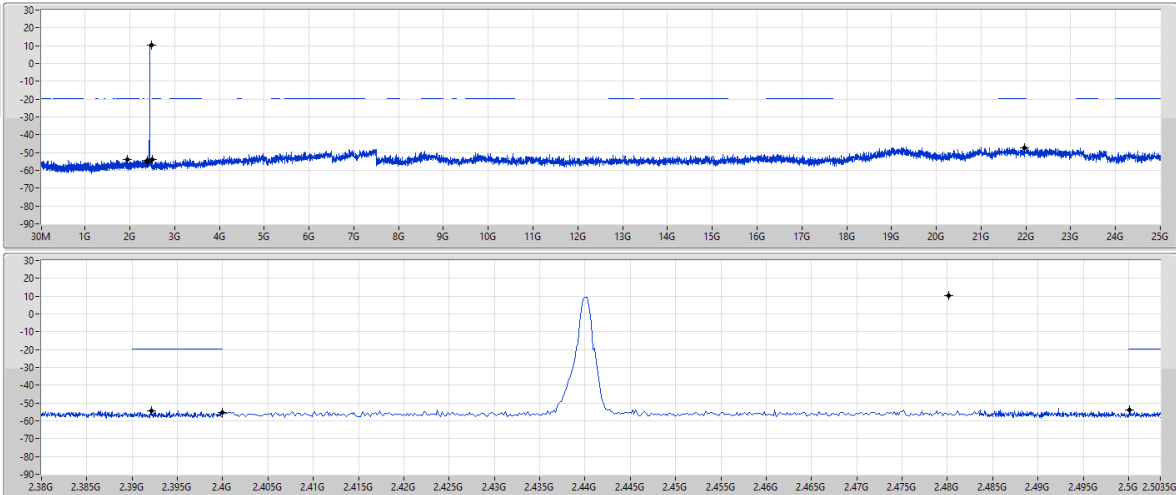
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

18/07/2025

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
2.48016G	10.44	-19.56	1.9429G	-54.11	2.39212G	-54.35	2.4G	-55.29	2.5001G	-53.73	2.197141G	-47.11	1

2.4-2.4835GHz_BT-LE(1Mbps)

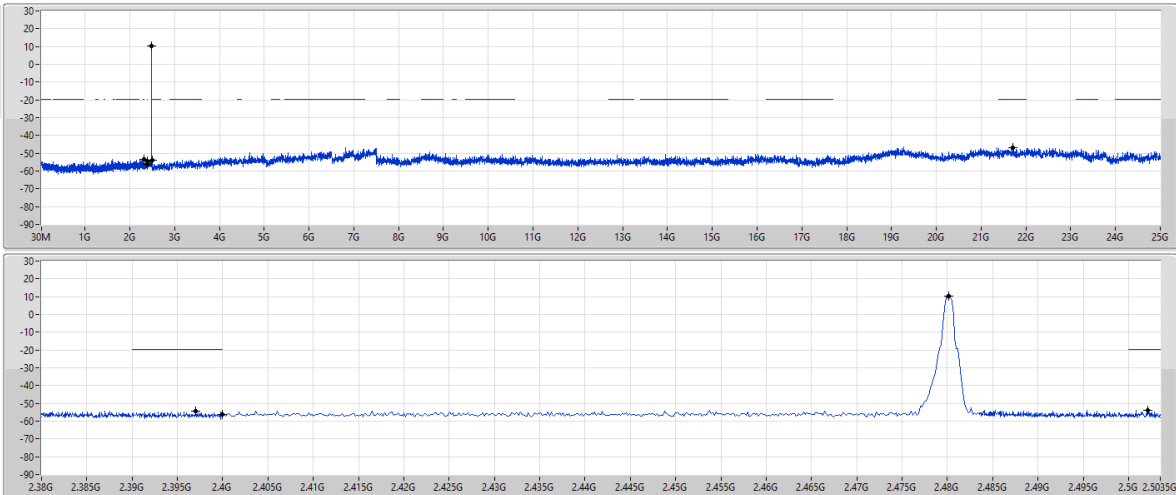
CSEndB-DTS

2480MHz

18/07/2025

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

Port 1



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
2.48016G	10.44	-19.56	2.3095G	-53.58	2.39704G	-54.33	2.4G	-56.44	2.5021G	-53.76	21.70426G	-47.02	1

2.4-2.4835GHz_BT-LE(2Mbps)

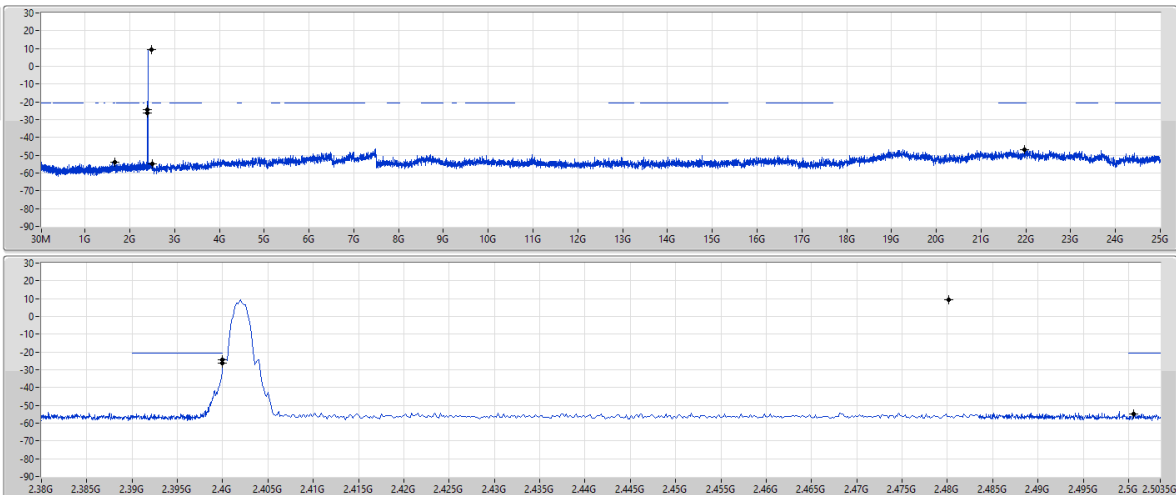
CSEndB-DTS

2402MHz

18/07/2025

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

Port 1



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
2.48016G	9.33	-20.67	1.65855G	-53.71	2.4G	-26.16	2.4G	-24.45	2.50058G	-54.66	21.97422G	-46.86	1

2.4-2.4835GHz_BT-LE(2Mbps)

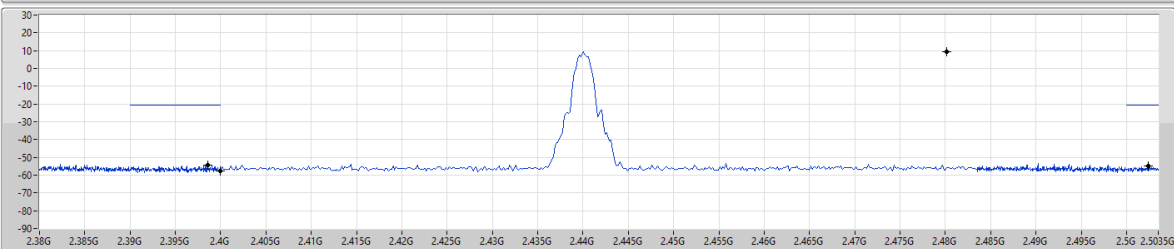
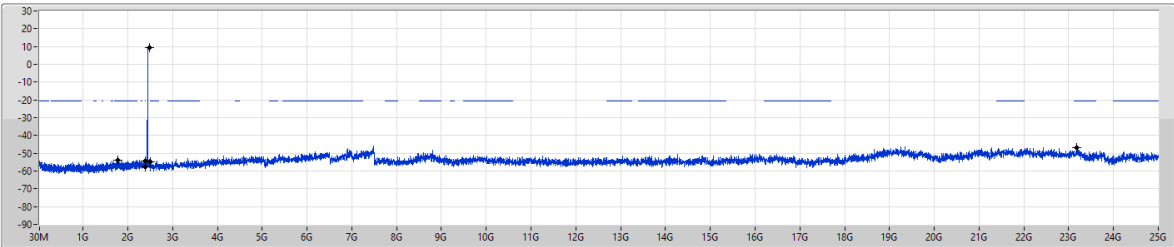
CSEndB-DTS

2440MHz

18/07/2025

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

Port 1



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
2.48016G	9.33	-20.67	1.78428G	-54.08	2.39856G	-54.33	2.4G	-57.70	2.50238G	-54.74	23.17497G	-46.95	1

2.4-2.4835GHz_BT-LE(2Mbps)

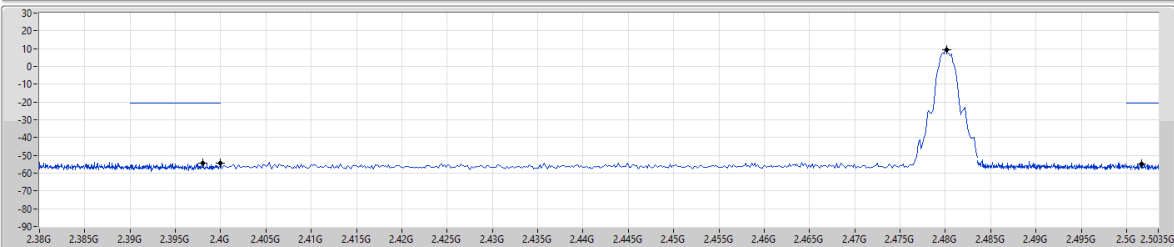
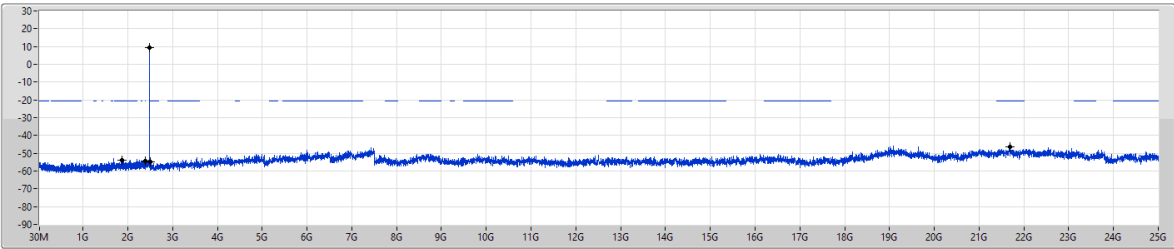
CSEndB-DTS

2480MHz

18/07/2025

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

Port 1



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
2.48016G	9.33	-20.67	1.86418G	-54.02	2.39804G	-54.18	2.4G	-54.49	2.50162G	-54.98	21.68177G	-46.57	1



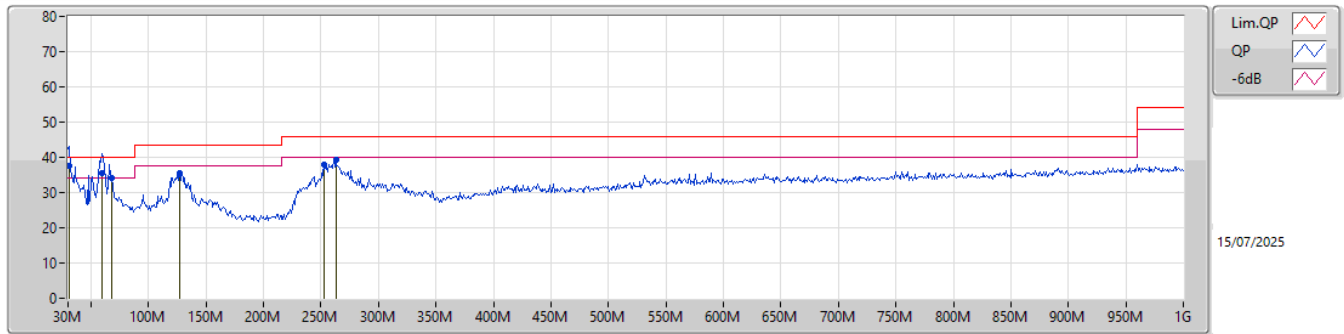
Radiated Emissions below 1GHz

Appendix F.1

Summary

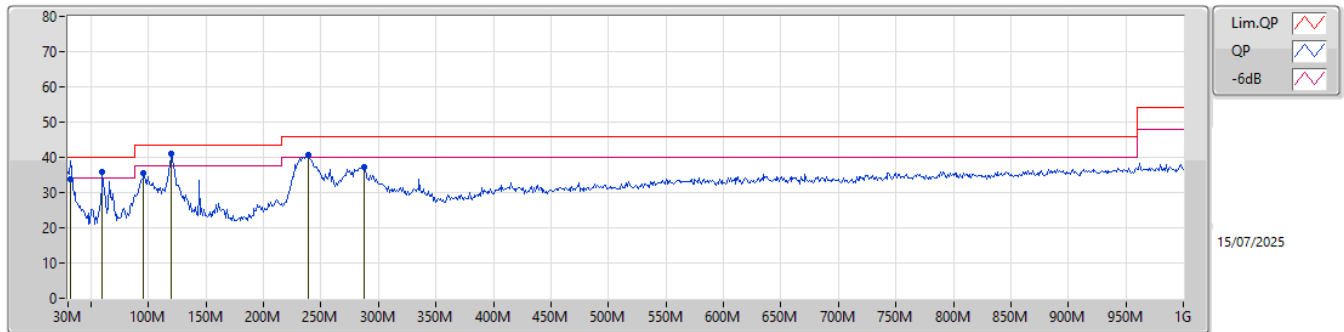
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	30.97M	37.69	40.00	-2.31	Vertical

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
QP	30.97M	37.69	40.00	-2.31	-19.76	3	Vertical	69	1.00	"Worst"	57.45	23.78	0.91	44.45		
QP	60.07M	35.52	40.00	-4.48	-30.95	3	Vertical	146	1.00	-	66.47	12.45	1.27	44.67		
PK	67.83M	34.05	40.00	-5.95	-31.10	3	Vertical	1	2.00	-	65.15	12.28	1.28	44.66		
PK	127M	35.59	43.50	-7.91	-25.00	3	Vertical	95	1.00	-	60.59	17.87	1.81	44.68		
PK	253.1M	37.86	46.00	-8.14	-23.04	3	Vertical	155	2.00	-	60.90	18.72	2.63	44.39		
PK	262.8M	39.44	46.00	-6.56	-22.00	3	Vertical	159	2.00	-	61.44	19.69	2.68	44.37		

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
QP	31.94M	33.87	40.00	-6.13	-20.12	3	Horizontal	174	1.25	"Worst"	53.99	23.42	0.92	44.46		
PK	60.07M	35.76	40.00	-4.24	-30.95	3	Horizontal	186	3.00	-	66.71	12.45	1.27	44.67		
PK	95.96M	35.61	43.50	-7.89	-27.06	3	Horizontal	187	2.00	-	62.67	16.00	1.55	44.61		
PK	120.21M	40.94	43.50	-2.56	-24.78	3	Horizontal	147	1.50	-	65.72	18.12	1.77	44.67		
PK	238.55M	40.58	46.00	-5.42	-24.80	3	Horizontal	37	1.50	-	65.38	17.07	2.55	44.42		
PK	288.02M	37.19	46.00	-8.81	-22.58	3	Horizontal	173	1.00	-	59.77	18.94	2.82	44.34		

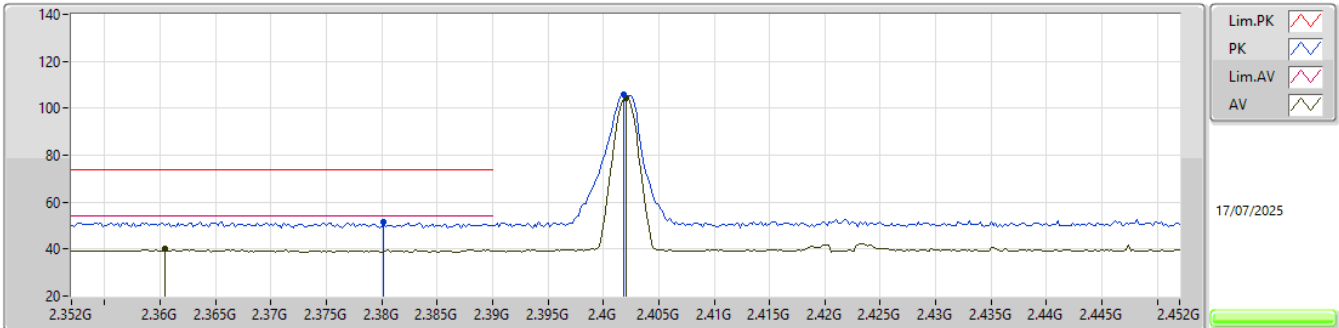


Summary

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	48.35	54.00	-5.65	3	Vertical	113	2.13	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

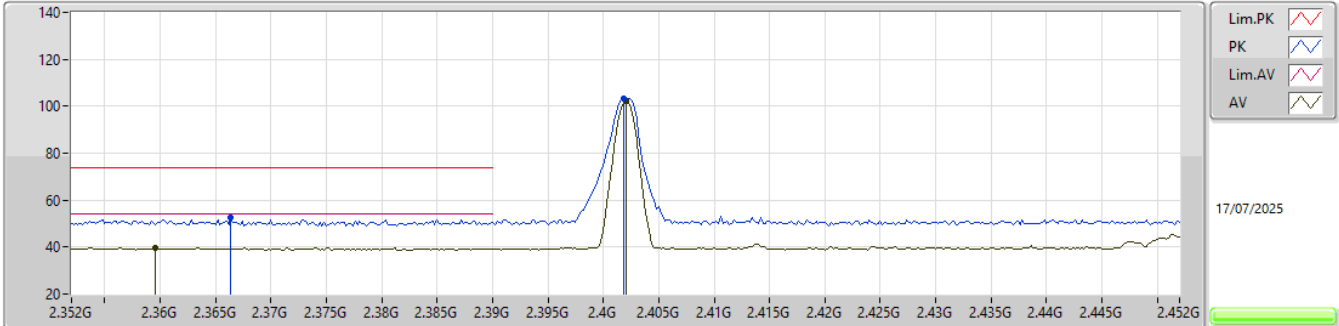


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3802G	51.78	74.00	-22.22	52.48	3	Vertical	107	1.80	-	27.30	4.92	32.92			
AV	2.3604G	39.98	54.00	-14.02	40.49	3	Vertical	107	1.80	-	27.50	4.91	32.92			
PK	2.4018G	105.66	Inf	-Inf	106.15	3	Vertical	107	1.80	-	27.50	4.93	32.92			
AV	2.402G	104.54	Inf	-Inf	105.03	3	Vertical	107	1.80	-	27.50	4.93	32.92			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

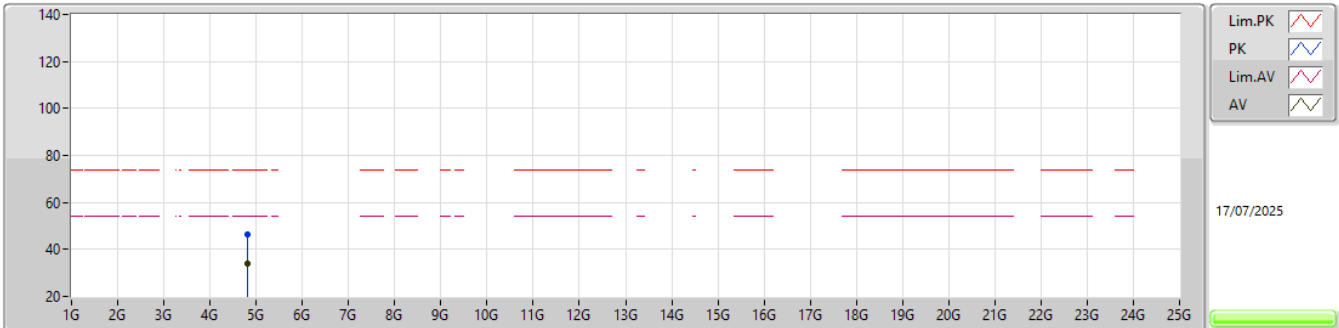


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3664G	52.82	74.00	-21.18	53.39	3	Horizontal	313	1.15	-	27.44	4.91	32.92				
AV	2.3596G	39.63	54.00	-14.37	40.14	3	Horizontal	313	1.15	-	27.50	4.91	32.92				
PK	2.4018G	103.08	Inf	-Inf	103.57	3	Horizontal	313	1.15	-	27.50	4.93	32.92				
AV	2.402G	101.99	Inf	-Inf	102.48	3	Horizontal	313	1.15	-	27.50	4.93	32.92				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

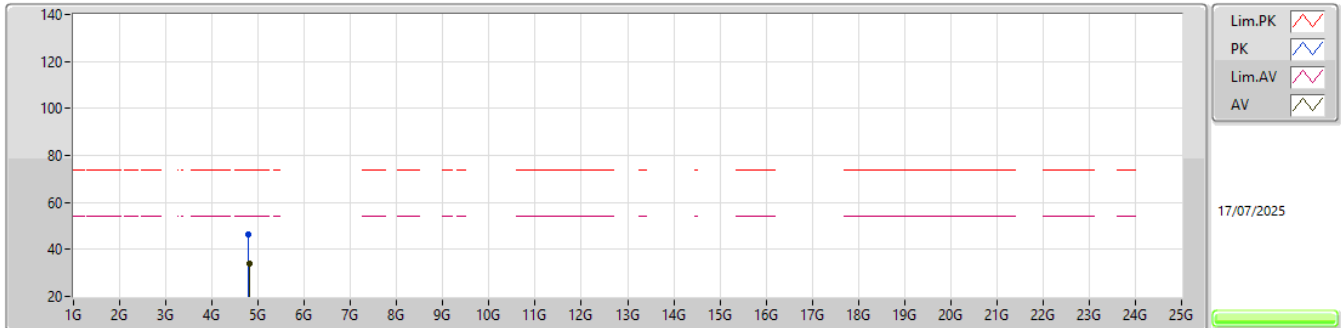


EUT_V_1TX
Setting Default
01-U-V-1

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	4.80256G	46.44	74.00	-27.56	40.10	3	Vertical	275	1.80	-	32.51	6.40	32.57			
AV	4.80778G	34.05	54.00	-19.95	27.68	3	Vertical	275	1.80	-	32.53	6.41	32.57			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

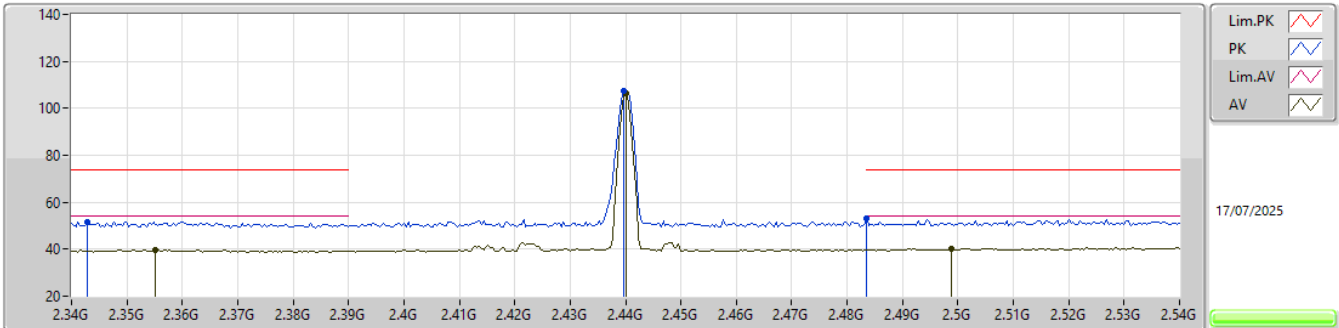


EUT_V_1TX
Setting Default
01-U-V-1

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	4.7977G	46.14	74.00	-27.86	39.81	3	Horizontal	6	1.50	-	32.50	6.40	32.57			
AV	4.81798G	34.21	54.00	-19.79	27.79	3	Horizontal	6	1.50	-	32.57	6.42	32.57			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

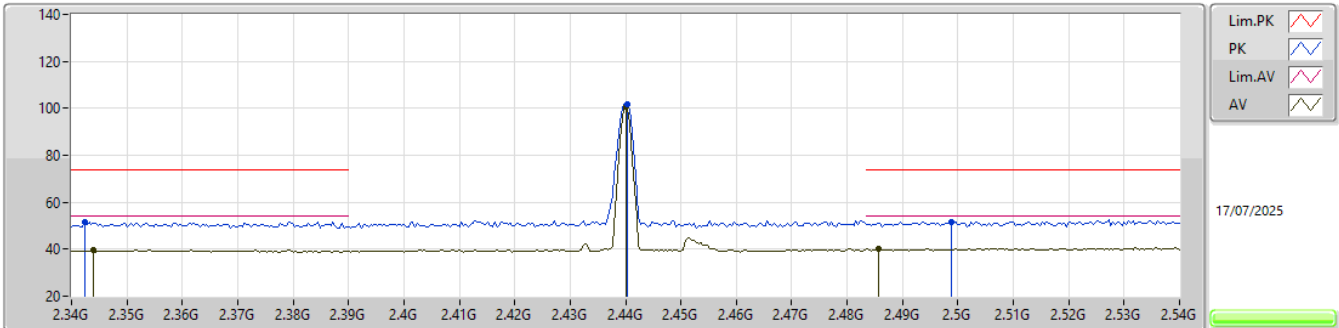


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3428G	51.81	74.00	-22.19	52.41	3	Vertical	107	1.71	-	27.43	4.90	32.93			
AV	2.3552G	39.88	54.00	-14.12	40.39	3	Vertical	107	1.71	-	27.50	4.91	32.92			
PK	2.4396G	107.56	Inf	-Inf	107.93	3	Vertical	107	1.71	-	27.60	4.94	32.91			
AV	2.44G	106.46	Inf	-Inf	106.83	3	Vertical	107	1.71	-	27.60	4.94	32.91			
PK	2.4835G	53.02	74.00	-20.98	53.13	3	Vertical	107	1.71	-	27.84	4.95	32.90			
AV	2.4988G	40.28	54.00	-13.72	40.24	3	Vertical	107	1.71	-	27.99	4.95	32.90			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

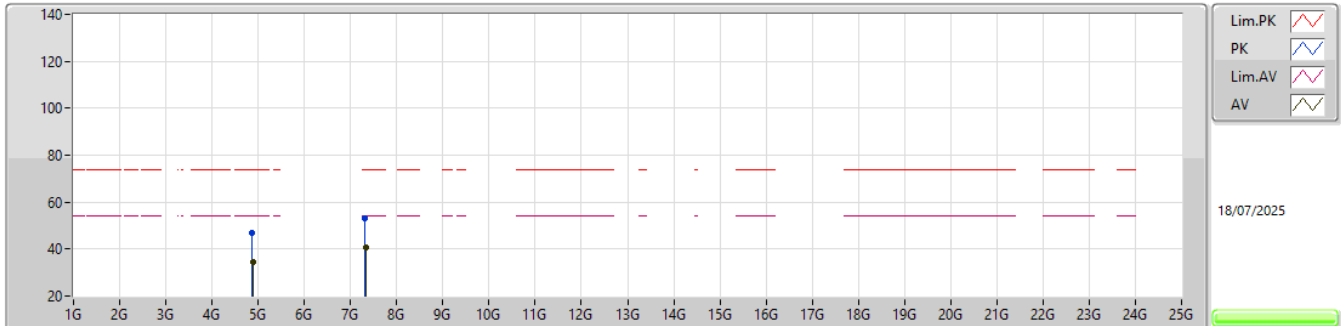


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3424G	51.59	74.00	-22.41	52.20	3	Horizontal	108	1.80	-	27.42	4.90	32.93			
AV	2.344G	39.63	54.00	-14.37	40.21	3	Horizontal	108	1.80	-	27.44	4.90	32.92			
PK	2.4404G	101.92	Inf	-Inf	102.29	3	Horizontal	108	1.80	-	27.60	4.94	32.91			
AV	2.44G	100.69	Inf	-Inf	101.06	3	Horizontal	108	1.80	-	27.60	4.94	32.91			
PK	2.4988G	51.59	74.00	-22.41	51.55	3	Horizontal	108	1.80	-	27.99	4.95	32.90			
AV	2.4856G	40.35	54.00	-13.65	40.44	3	Horizontal	108	1.80	-	27.86	4.95	32.90			

2.4-2.4835GHz_BT-LE(1Mbps)

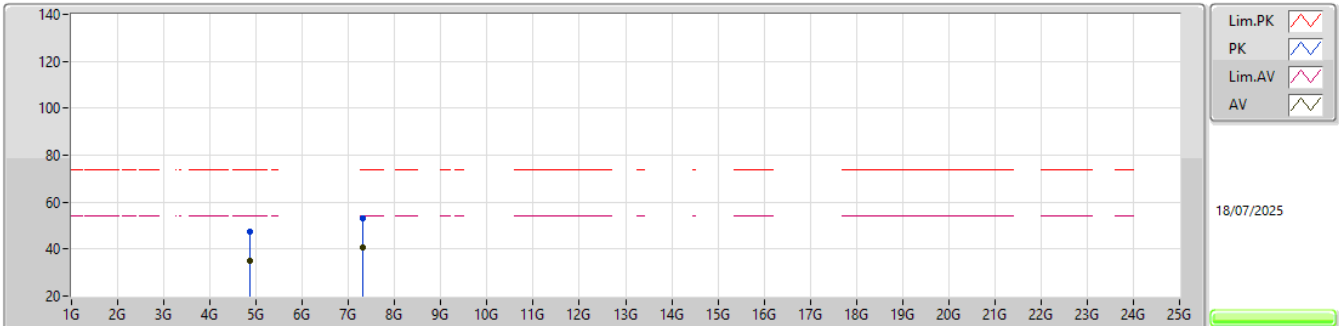
2440MHz_TX


EUT_Y_1TX
Setting Default
01-U-V-1

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	4.87658G	47.01	74.00	-26.99	40.28	3	Vertical	48	2.88	-	32.81	6.50	32.58				
AV	4.87964G	34.69	54.00	-19.31	27.94	3	Vertical	48	2.88	-	32.82	6.51	32.58				
PK	7.30836G	52.94	74.00	-21.06	40.08	3	Vertical	308	1.39	-	37.52	7.97	32.63				
AV	7.33308G	40.81	54.00	-13.19	27.88	3	Vertical	308	1.39	-	37.57	7.98	32.62				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

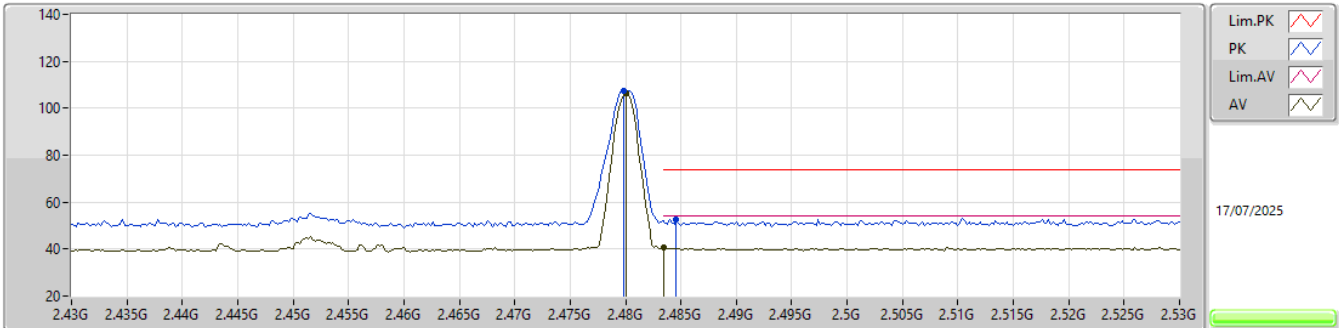


EUT_Y_1TX
Setting Default
01-U-V-1

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	4.8749G	47.41	74.00	-26.59	40.68	3	Horizontal	80	1.80	-	32.80	6.50	32.57			
AV	4.86536G	34.82	54.00	-19.18	28.14	3	Horizontal	80	1.80	-	32.76	6.49	32.57			
PK	7.31562G	52.97	74.00	-21.03	40.10	3	Horizontal	88	1.75	-	37.53	7.97	32.63			
AV	7.31376G	40.51	54.00	-13.49	27.64	3	Horizontal	88	1.75	-	37.53	7.97	32.63			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

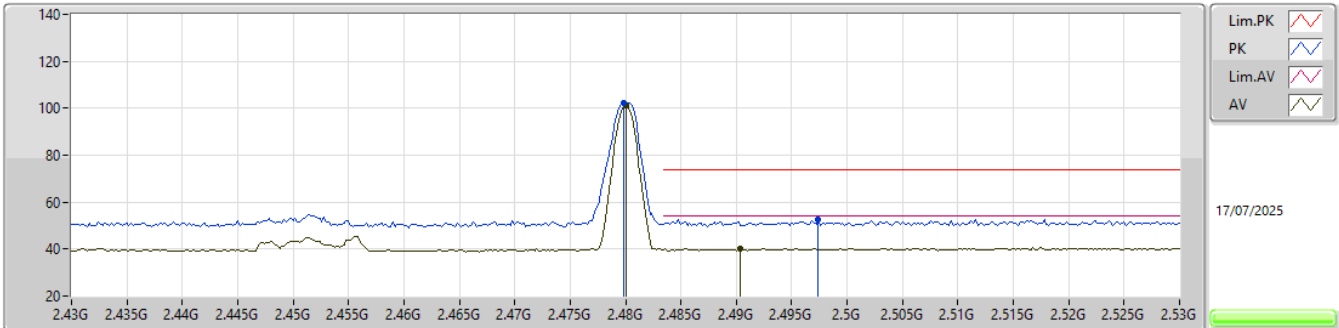


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.4798G	107.52	Inf	-Inf	107.67	3	Vertical	115	2.14	-	27.80	4.95	32.90			
AV	2.48G	106.35	Inf	-Inf	106.50	3	Vertical	115	2.14	-	27.80	4.95	32.90			
PK	2.4846G	52.77	74.00	-21.23	52.87	3	Vertical	115	2.14	-	27.85	4.95	32.90			
AV	2.4835G	40.57	54.00	-13.43	40.68	3	Vertical	115	2.14	-	27.84	4.95	32.90			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

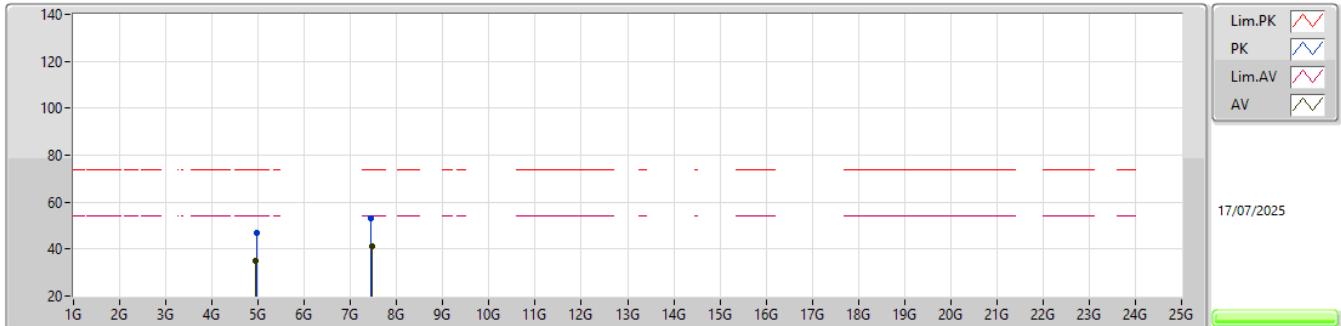


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.4798G	102.20	Inf	-Inf	102.35	3	Horizontal	110	2.32	-	27.80	4.95	32.90			
AV	2.48G	101.10	Inf	-Inf	101.25	3	Horizontal	110	2.32	-	27.80	4.95	32.90			
PK	2.4974G	52.82	74.00	-21.18	52.80	3	Horizontal	110	2.32	-	27.97	4.95	32.90			
AV	2.4904G	40.11	54.00	-13.89	40.16	3	Horizontal	110	2.32	-	27.90	4.95	32.90			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

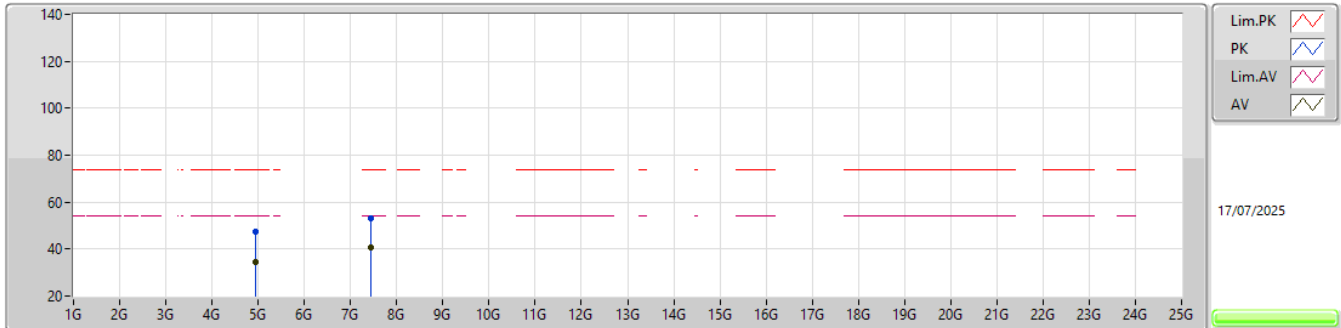


EUT_Y_1TX
Setting Default
01-U-V-1

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	4.97272G	47.10	74.00	-26.90	40.10	3	Vertical	227	1.80	-	32.95	6.63	32.58				
AV	4.94926G	34.79	54.00	-19.21	27.77	3	Vertical	227	1.80	-	33.00	6.60	32.58				
PK	7.43718G	52.90	74.00	-21.10	39.90	3	Vertical	179	1.03	-	37.53	8.05	32.58				
AV	7.45482G	41.33	54.00	-12.67	28.34	3	Vertical	179	1.03	-	37.49	8.08	32.58				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

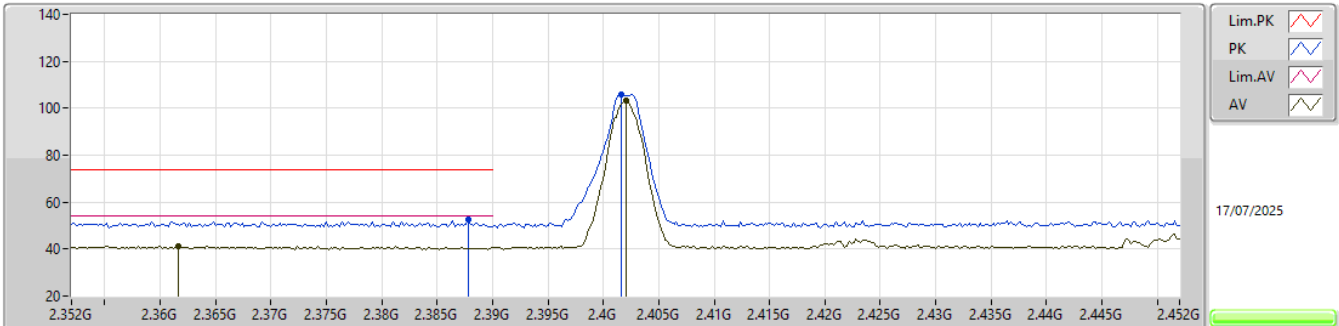


EUT_Y_1TX
Setting Default
01-U-V-1

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	4.94962G	47.46	74.00	-26.54	40.44	3	Horizontal	105	1.29	-	33.00	6.60	32.58				
AV	4.9462G	34.68	54.00	-19.32	27.67	3	Horizontal	105	1.29	-	32.99	6.60	32.58				
PK	7.44324G	52.98	74.00	-21.02	39.99	3	Horizontal	357	2.04	-	37.51	8.06	32.58				
AV	7.43178G	40.88	54.00	-13.12	27.89	3	Horizontal	357	2.04	-	37.54	8.04	32.59				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

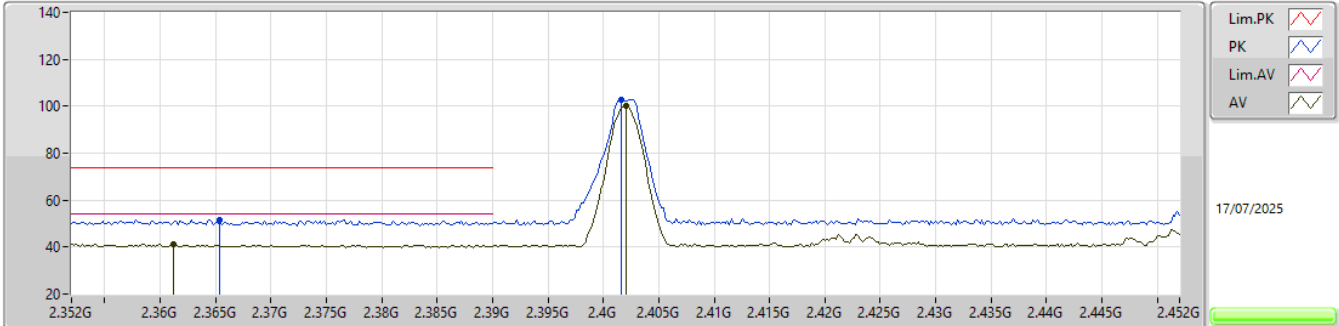


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3878G	52.38	74.00	-21.62	53.00	3	Vertical	107	1.80	-	27.38	4.92	32.92			
AV	2.3616G	41.36	54.00	-12.64	41.89	3	Vertical	107	1.80	-	27.48	4.91	32.92			
PK	2.4016G	105.72	Inf	-Inf	106.21	3	Vertical	107	1.80	-	27.50	4.93	32.92			
AV	2.402G	103.22	Inf	-Inf	103.71	3	Vertical	107	1.80	-	27.50	4.93	32.92			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

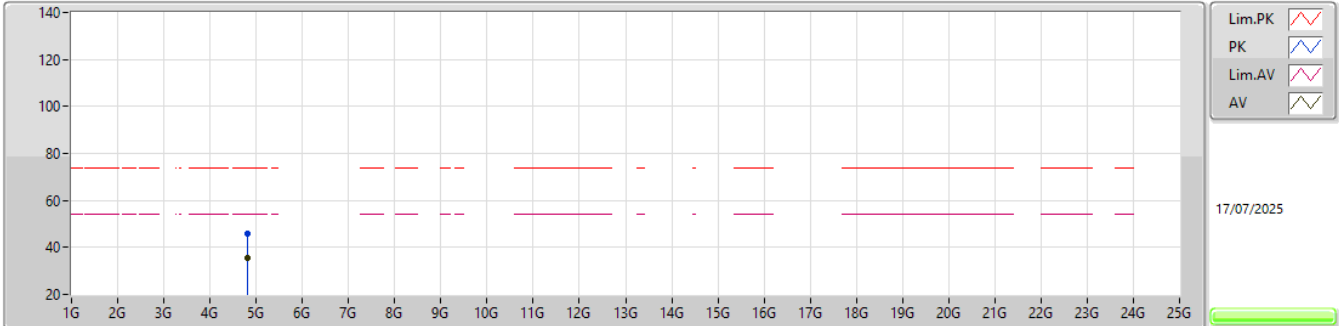


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3654G	51.74	74.00	-22.26	52.30	3	Horizontal	312	1.17	-	27.45	4.91	32.92				
AV	2.3612G	41.37	54.00	-12.63	41.89	3	Horizontal	312	1.17	-	27.49	4.91	32.92				
PK	2.4016G	102.85	Inf	-Inf	103.34	3	Horizontal	312	1.17	-	27.50	4.93	32.92				
AV	2.402G	100.39	Inf	-Inf	100.88	3	Horizontal	312	1.17	-	27.50	4.93	32.92				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

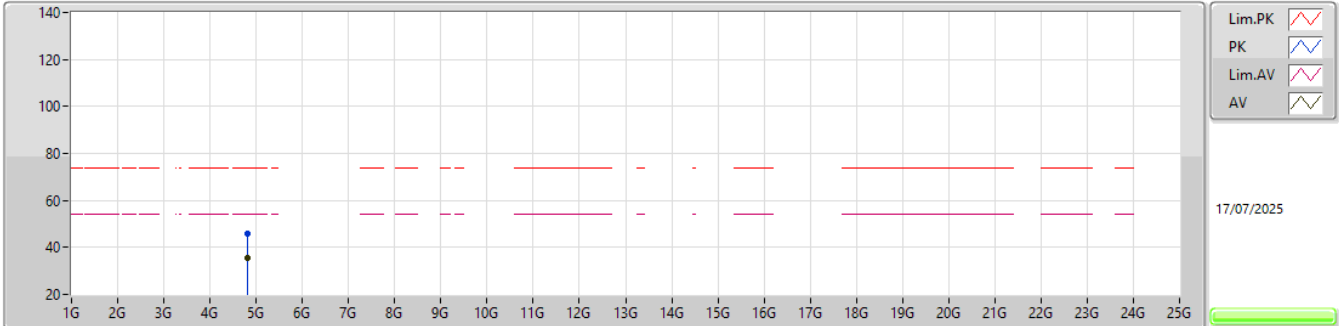


EUT_V_1TX
Setting Default
01-U-V-1

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	4.8184G	46.03	74.00	-27.97	39.61	3	Vertical	210	1.37	-	32.57	6.42	32.57			
AV	4.80262G	35.26	54.00	-18.74	28.92	3	Vertical	210	1.37	-	32.51	6.40	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

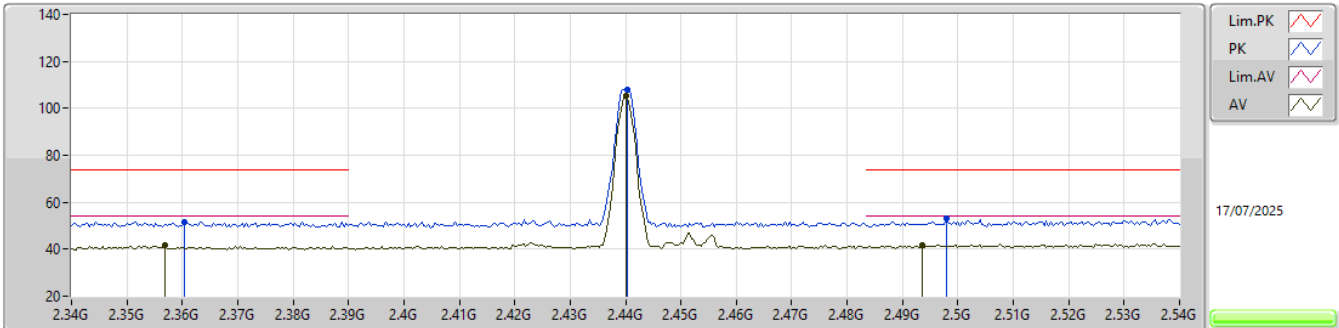


EUT_V_1TX
Setting Default
01-U-V-1

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	4.81126G	45.78	74.00	-28.22	39.38	3	Horizontal	71	1.53	-	32.55	6.42	32.57			
AV	4.80616G	35.53	54.00	-18.47	29.17	3	Horizontal	71	1.53	-	32.52	6.41	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

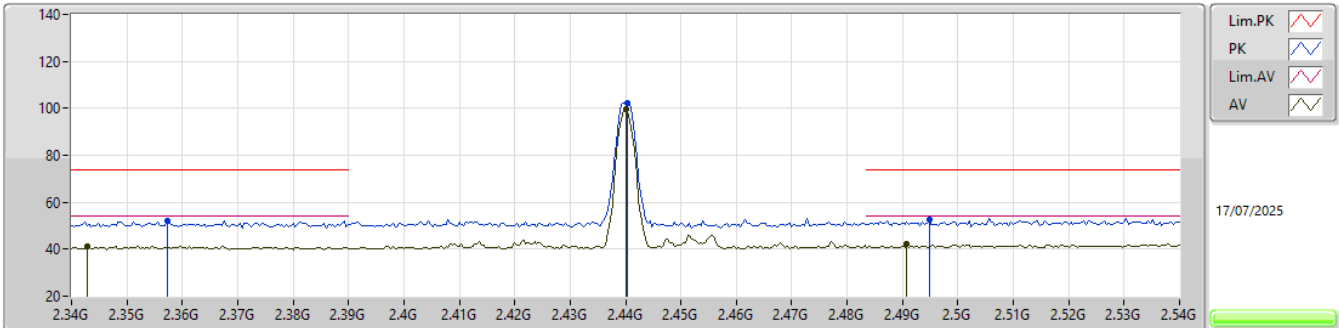


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3604G	51.60	74.00	-22.40	52.11	3	Vertical	109	1.72	-	27.50	4.91	32.92			
AV	2.3568G	41.48	54.00	-12.52	41.99	3	Vertical	109	1.72	-	27.50	4.91	32.92			
PK	2.4404G	107.95	Inf	-Inf	108.32	3	Vertical	109	1.72	-	27.60	4.94	32.91			
AV	2.44G	105.45	Inf	-Inf	105.82	3	Vertical	109	1.72	-	27.60	4.94	32.91			
PK	2.498G	53.23	74.00	-20.77	53.20	3	Vertical	109	1.72	-	27.98	4.95	32.90			
AV	2.4936G	41.98	54.00	-12.02	41.99	3	Vertical	109	1.72	-	27.94	4.95	32.90			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

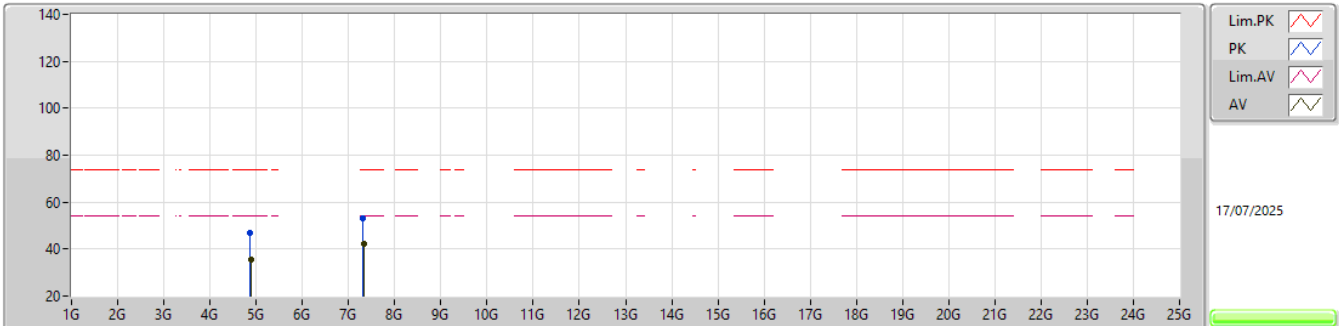


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.3572G	52.11	74.00	-21.89	52.62	3	Horizontal	107	1.80	-	27.50	4.91	32.92			
AV	2.3428G	41.28	54.00	-12.72	41.88	3	Horizontal	107	1.80	-	27.43	4.90	32.93			
PK	2.4404G	102.16	Inf	-Inf	102.53	3	Horizontal	107	1.80	-	27.60	4.94	32.91			
AV	2.44G	99.51	Inf	-Inf	99.88	3	Horizontal	107	1.80	-	27.60	4.94	32.91			
PK	2.4948G	52.68	74.00	-21.32	52.68	3	Horizontal	107	1.80	-	27.95	4.95	32.90			
AV	2.4908G	42.20	54.00	-11.80	42.24	3	Horizontal	107	1.80	-	27.91	4.95	32.90			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

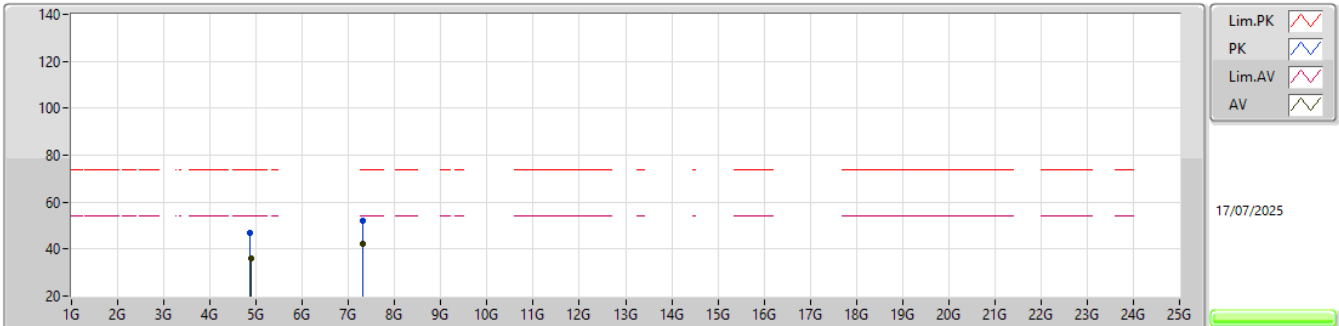


EUT_Y_1TX
Setting Default
01-U-V-1

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	4.87004G	46.86	74.00	-27.14	40.16	3	Vertical	218	1.59	-	32.78	6.49	32.57				
AV	4.88384G	35.77	54.00	-18.23	29.00	3	Vertical	218	1.59	-	32.84	6.51	32.58				
PK	7.31682G	53.12	74.00	-20.88	40.24	3	Vertical	301	1.70	-	37.53	7.98	32.63				
AV	7.32594G	42.09	54.00	-11.91	29.19	3	Vertical	301	1.70	-	37.55	7.98	32.63				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

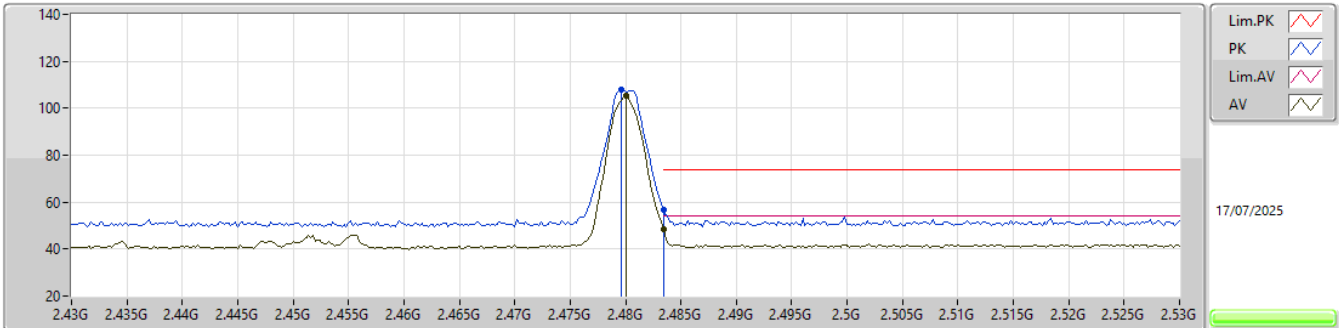


EUT_Y_1TX
Setting Default
01-U-V-1

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	4.86956G	46.89	74.00	-27.11	40.19	3	Horizontal	181	2.49	-	32.78	6.49	32.57			
AV	4.87784G	35.84	54.00	-18.16	29.10	3	Horizontal	181	2.49	-	32.81	6.51	32.58			
PK	7.3119G	52.28	74.00	-21.72	39.42	3	Horizontal	266	2.80	-	37.52	7.97	32.63			
AV	7.30548G	42.14	54.00	-11.86	29.29	3	Horizontal	266	2.80	-	37.51	7.97	32.63			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

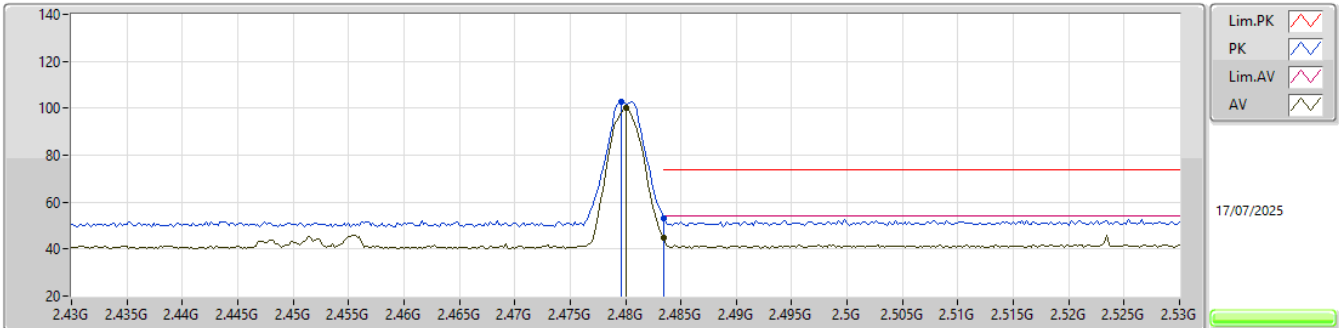


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.4796G	107.78	Inf	-Inf	107.93	3	Vertical	113	2.13	-	27.80	4.95	32.90			
AV	2.48G	105.15	Inf	-Inf	105.30	3	Vertical	113	2.13	-	27.80	4.95	32.90			
PK	2.4835G	56.95	74.00	-17.05	57.06	3	Vertical	113	2.13	-	27.84	4.95	32.90			
AV	2.4835G	48.35	54.00	-5.65	48.46	3	Vertical	113	2.13	-	27.84	4.95	32.90			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

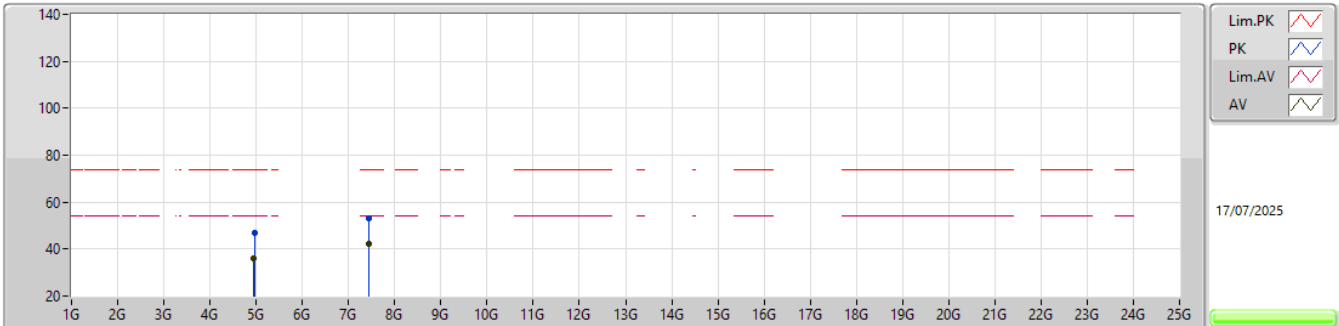


EUT_Y_1TX
Setting Default
01-U-V-1-10

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	2.4796G	102.57	Inf	-Inf	102.72	3	Horizontal	109	2.32	-	27.80	4.95	32.90			
AV	2.48G	99.97	Inf	-Inf	100.12	3	Horizontal	109	2.32	-	27.80	4.95	32.90			
PK	2.4835G	53.06	74.00	-20.94	53.17	3	Horizontal	109	2.32	-	27.84	4.95	32.90			
AV	2.4835G	44.65	54.00	-9.35	44.76	3	Horizontal	109	2.32	-	27.84	4.95	32.90			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

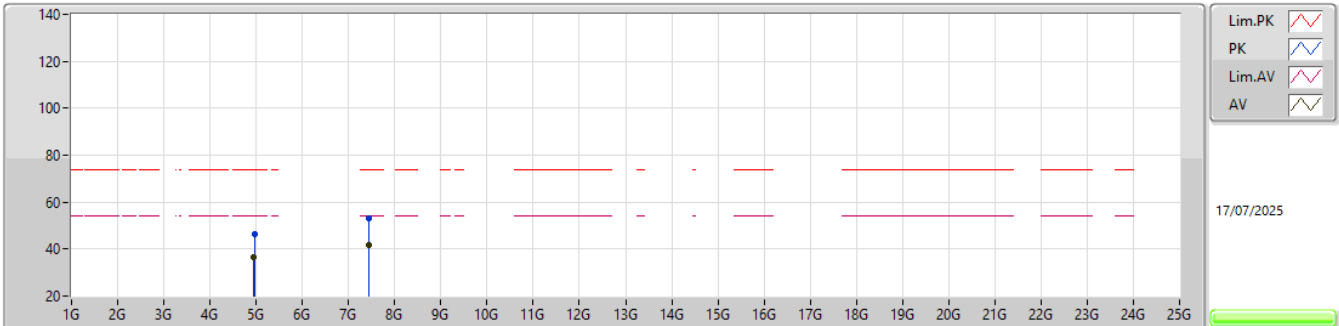


EUT_Y_1TX
Setting Default
01-U-V-1

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	4.97254G	46.74	74.00	-27.26	39.74	3	Vertical	81	1.86	-	32.95	6.63	32.58				
AV	4.94752G	35.88	54.00	-18.12	28.86	3	Vertical	81	1.86	-	33.00	6.60	32.58				
PK	7.45044G	53.33	74.00	-20.67	40.34	3	Vertical	196	1.87	-	37.50	8.07	32.58				
AV	7.42794G	42.22	54.00	-11.78	29.23	3	Vertical	196	1.87	-	37.54	8.04	32.59				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT_Y_1TX
Setting Default
01-U-V-1

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	4.96102G	46.25	74.00	-27.75	39.23	3	Horizontal	248	2.37	-	32.98	6.62	32.58				
AV	4.94776G	36.40	54.00	-17.60	29.38	3	Horizontal	248	2.37	-	33.00	6.60	32.58				
PK	7.45314G	52.85	74.00	-21.15	39.87	3	Horizontal	323	2.02	-	37.49	8.07	32.58				
AV	7.42986G	41.96	54.00	-12.04	28.97	3	Horizontal	323	2.02	-	37.54	8.04	32.59				