

FCC Radio Test Report

FCC ID : 2AD37JIKMW115M
Equipment : Wireless Mouse
Brand Name : j5create
Model Name : JIKMW115-M
Applicant : KAIJET TECHNOLOGY INTERNATIONAL CORPORATION
8F., No.109, Zhongcheng Rd., Tucheng Dist.,
New Taipei City 236, Taiwan, R.O.C.
Manufacturer : Magic Control Technology Corporation
10F., No.123, Zhongcheng Rd., Tucheng Dist.,
New Taipei City 236, Taiwan R.O.C.
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 26, 2021, and testing was started from Sep. 17, 2021 and completed on Sep. 22, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT3

SUMMARY OF TEST RESULT4

1 GENERAL DESCRIPTION5

1.1 Information.....5

1.2 Testing Applied Standards7

1.3 Testing Location Information7

1.4 Measurement Uncertainty7

2 TEST CONFIGURATION OF EUT.....8

2.1 Test Channel Mode8

2.2 The Worst Case Measurement Configuration8

2.3 Support Equipment.....9

2.4 Test Setup Diagram10

3 TRANSMITTER TEST RESULT11

3.1 DTS Bandwidth.....11

3.2 Maximum Conducted Output Power12

3.3 Power Spectral Density14

3.4 Emissions in Non-restricted Frequency Bands15

3.5 Emissions in Restricted Frequency Bands.....16

4 TEST EQUIPMENT AND CALIBRATION DATA20

APPENDIX A. TEST RESULTS OF DTS BANDWIDTH

APPENDIX B. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER

APPENDIX C. TEST RESULTS OF POWER SPECTRAL DENSITY

APPENDIX D. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

APPENDIX E. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS

APPENDIX F. TEST PHOTOS

PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR172603-04AC	01	Initial issue of report	Oct. 08, 2021



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Only employ battery power.
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Jenny Yang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number
2400-2483.5	GFSK	2403.85-2479.85	0-15 [16]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	GFSK	1	1TX

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2403.85	8	2441.85
1	2407.85	9	2445.85
2	2414.85	10	2453.85
3	2419.85	11	2459.85
4	2422.85	12	2463.85
5	2426.85	13	2466.85
6	2436.85	14	2473.85
7	2439.85	15	2479.85

Note:

- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	MCT	MA0D	PCB	N/A	0

Note 1: The EUT has one antenna.

For SRD 2.4GHz function:

For SRD 2.4GHz mode (1TX/1RX)

Only Ant. 1 can be used as transmitting/receiving.



1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Battery			
EUT Function	<input type="checkbox"/>	Point-to-multipoint	<input checked="" type="checkbox"/>	Point-to-point
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Type of EUT				
<input checked="" type="checkbox"/>	Stand-alone			
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:		...	
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:		...	
<input type="checkbox"/>	Other:			

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
GFSK	0.016	17.96	125u	10k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013

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

- ◆ KDB 558074 D01 v05r02
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Barry Hsiao	24.9~25.7°C / 55~64%	22/Sep/2021
Radiated	03CH02-HY	Daniel Lin	20.5~26.3°C / 52~63%	17/Sep/2021~18/Sep/2021
<input type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode




Test Software Version	N/A
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Note: The EUT transmits RF signal continuously by itself

Mode	Power Setting
GFSK	-
2403.85MHz	default
2441.85MHz	default
2479.85MHz	default

2.2 The Worst Case Measurement Configuration

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		
1	Battery mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

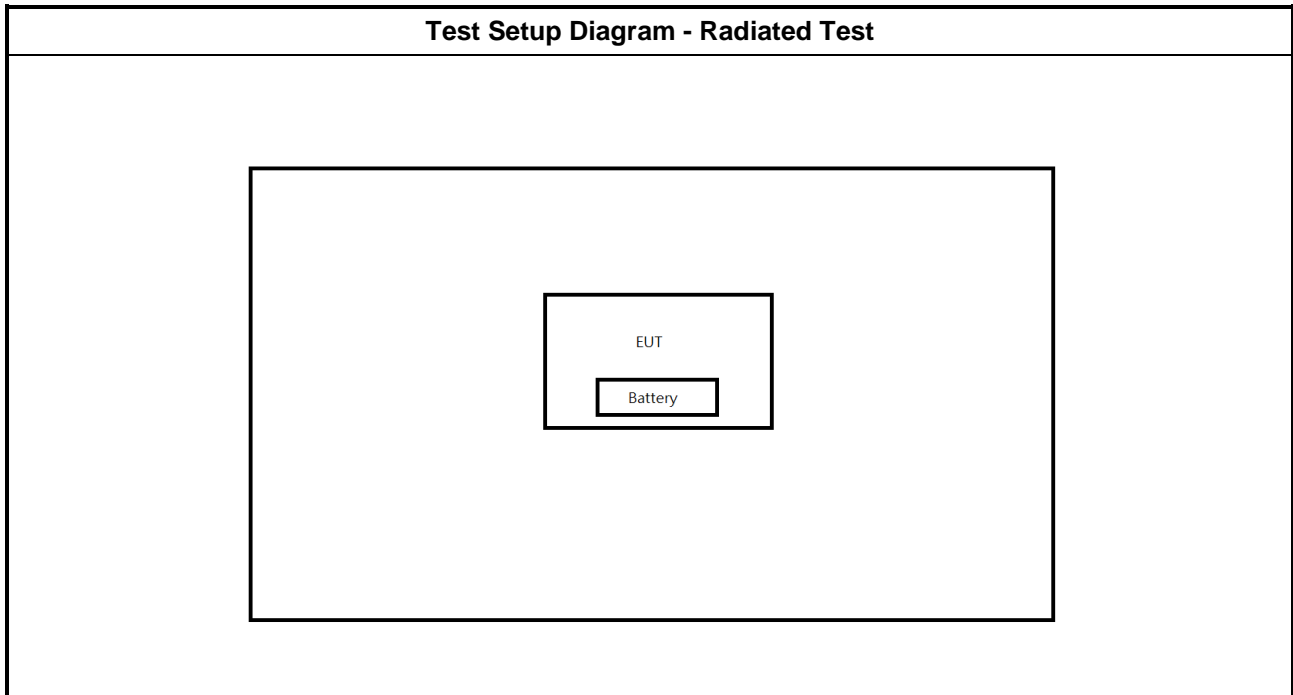


2.3 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Battery	FUJITSU	R6	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Battery	FUJITSU	R6	-	-

2.4 Test Setup Diagram



3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

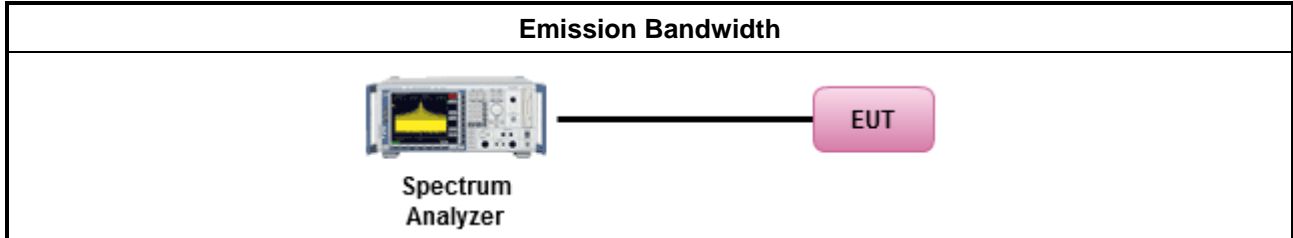
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/> Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.	

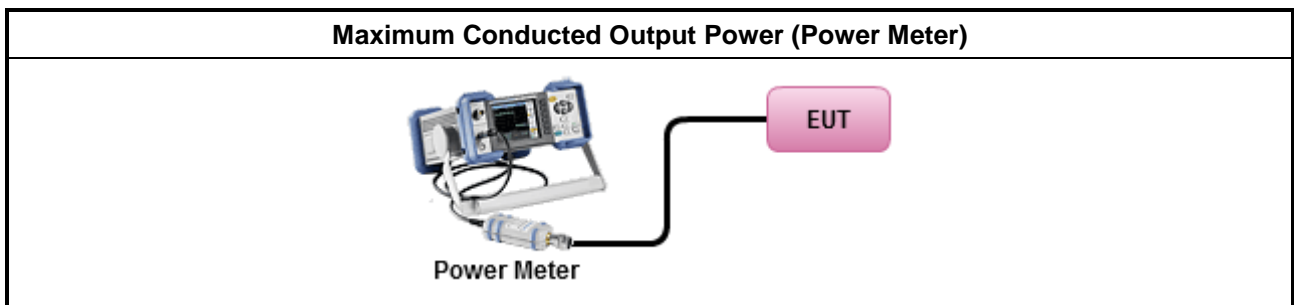
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as 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. 	
<ul style="list-style-type: none"> ▪ 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]) $EIRP_{total} = P_{total} + DG$ 	

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

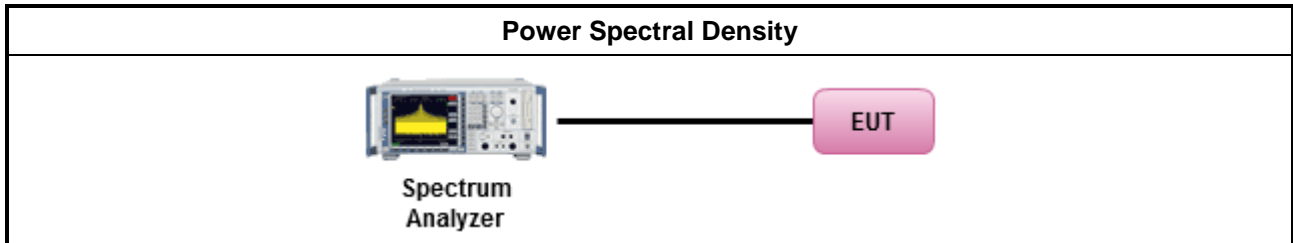
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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).
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as 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.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
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 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 level.

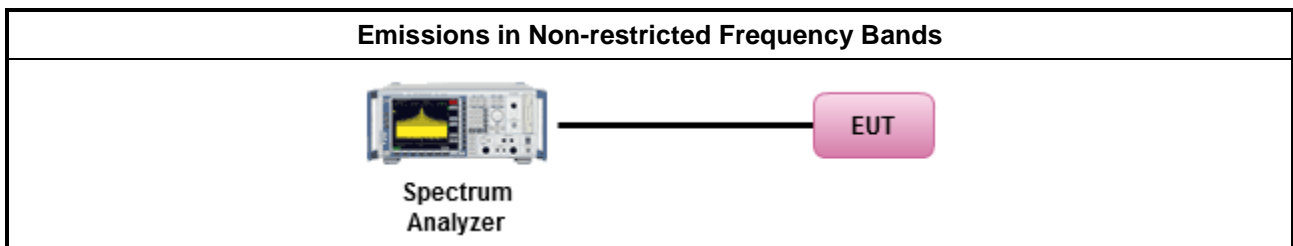
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D



3.5 Emissions in Restricted Frequency Bands

3.5.1 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.

3.5.2 Measuring Instruments

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



3.5.3 Test Procedures

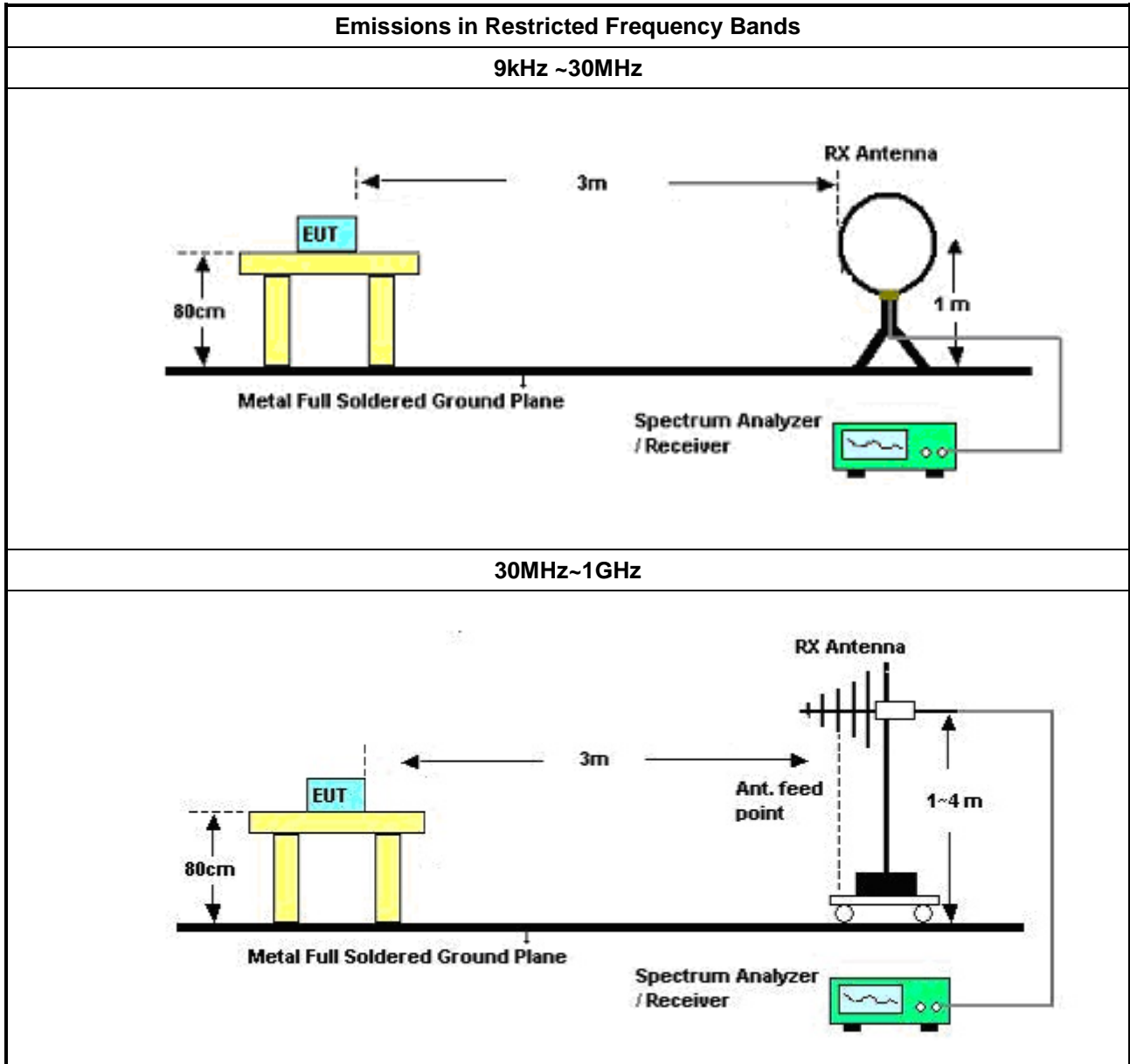
Test Method	
	<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> Refer as KDB 558074 clause 8.7.1, 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.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<ul style="list-style-type: none"> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

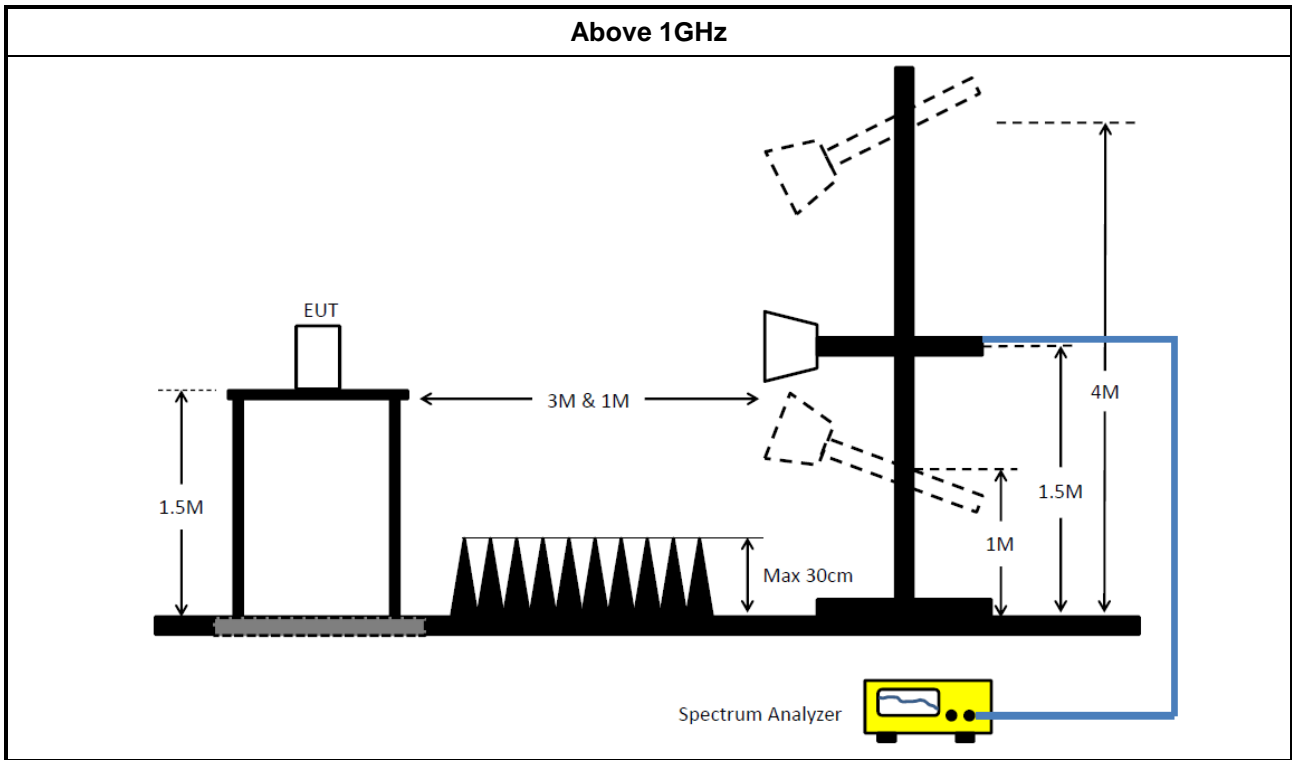
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX1 04	805193/4+805192/4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
GFSK	1.8M	2.156M	2M16F1D	1.443M	2.139M

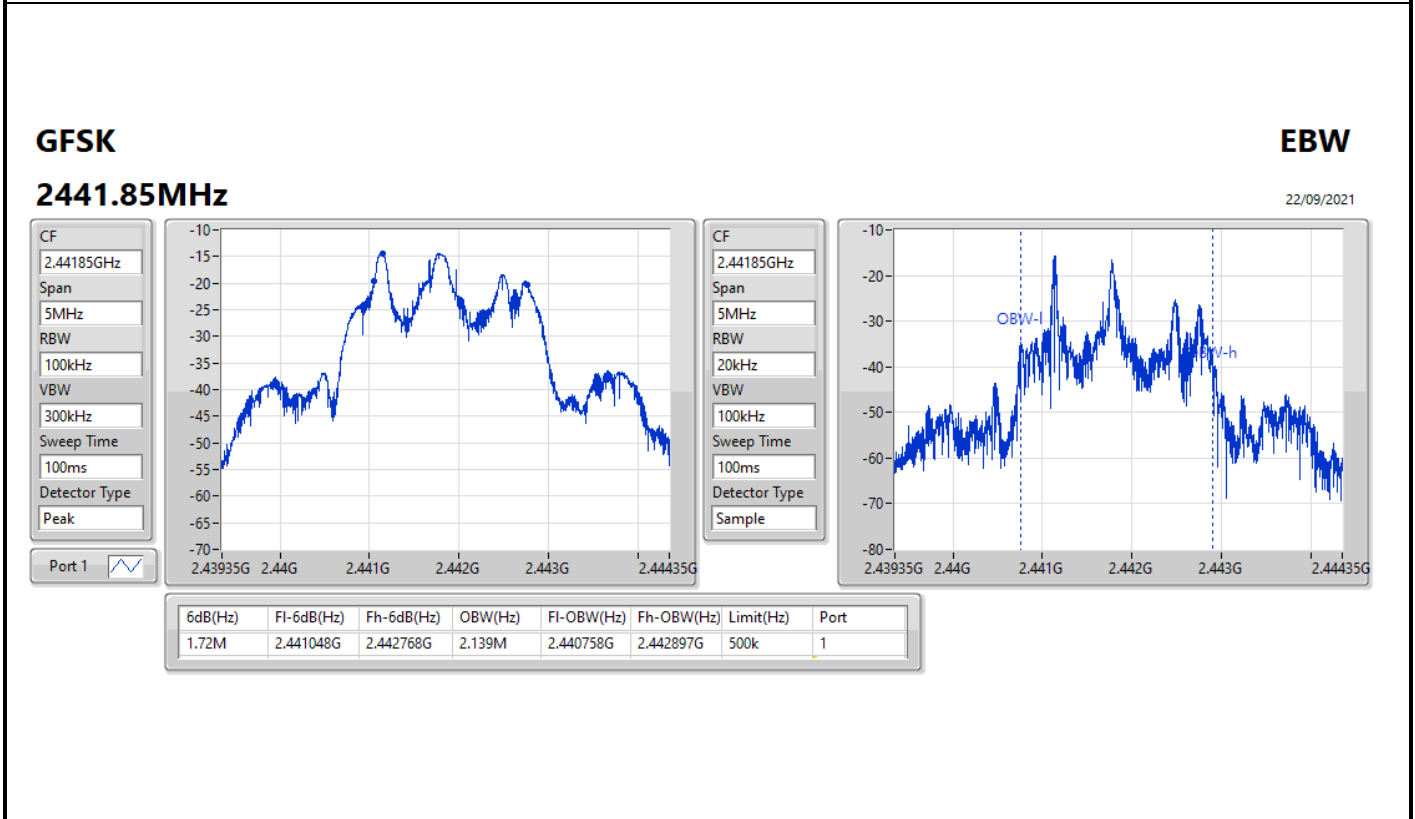
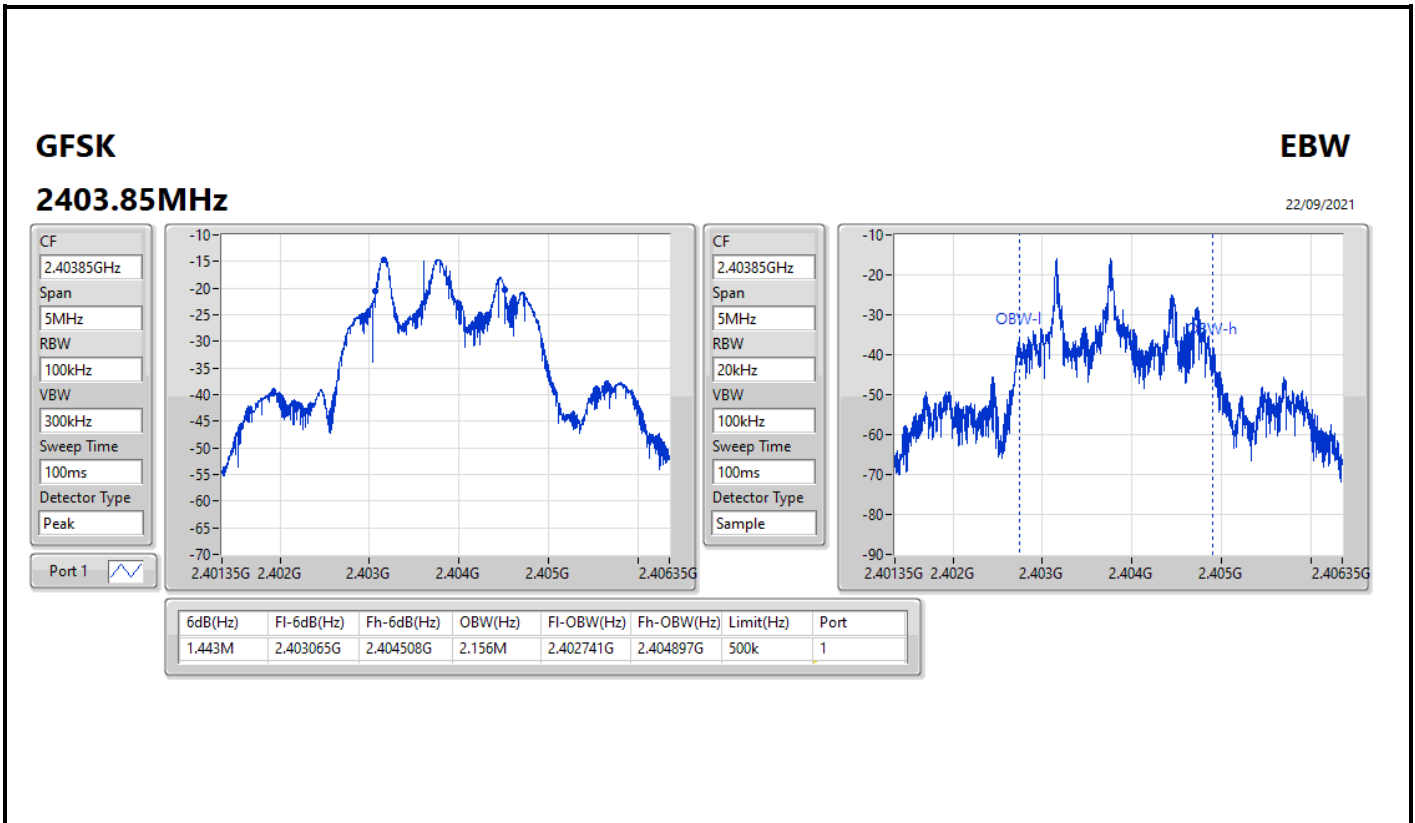
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

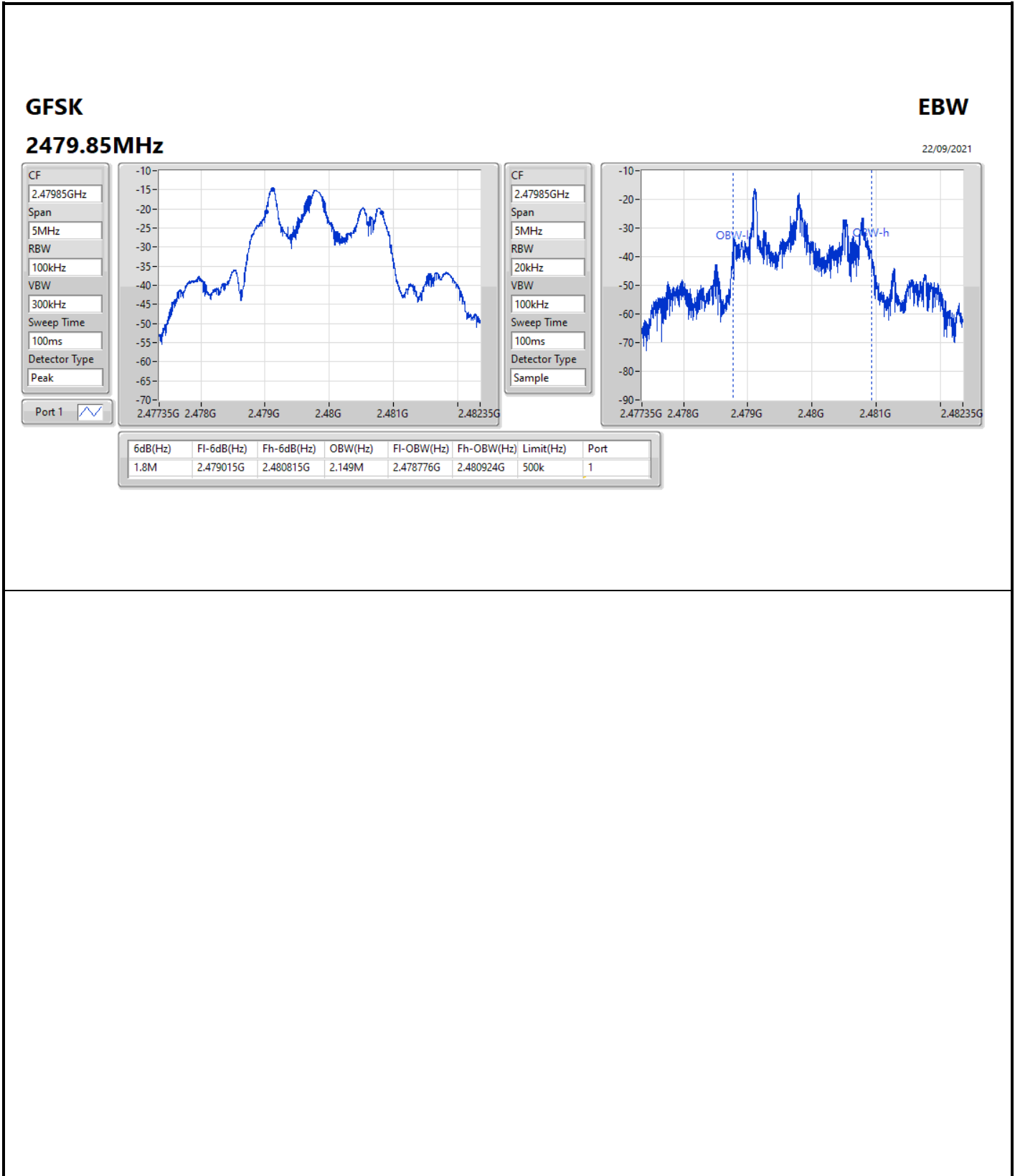


Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
GFSK	-	-	-	-
2403.85MHz	Pass	500k	1.443M	2.156M
2441.85MHz	Pass	500k	1.72M	2.139M
2479.85MHz	Pass	500k	1.8M	2.149M

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







Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
GFSK	-15.22	0.00003



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
GFSK	-	-	-	-	-
2403.85MHz	Pass	0.00	-15.40	-15.40	30.00
2441.85MHz	Pass	0.00	-15.22	-15.22	30.00
2479.85MHz	Pass	0.00	-16.10	-16.10	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
GFSK	-27.96

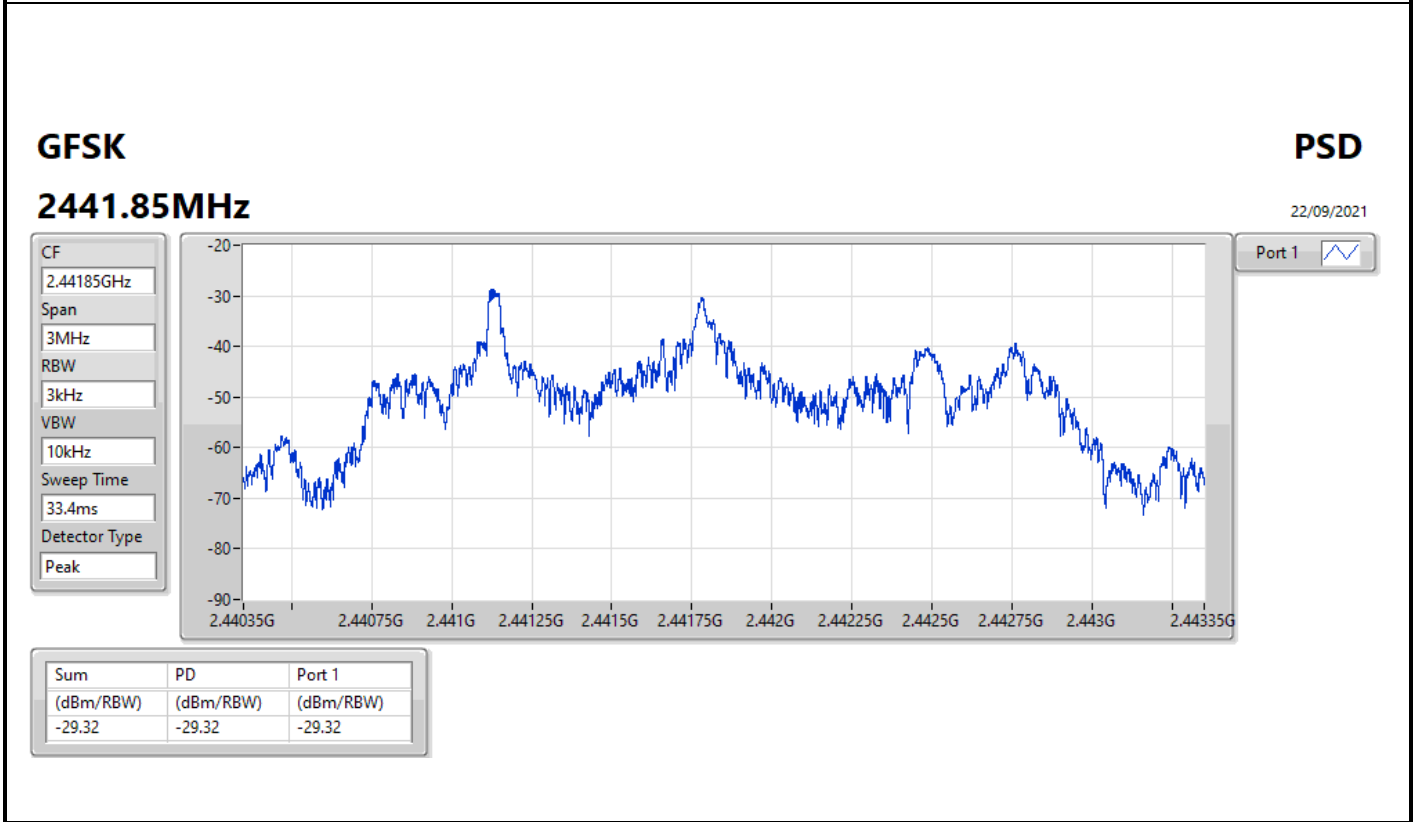
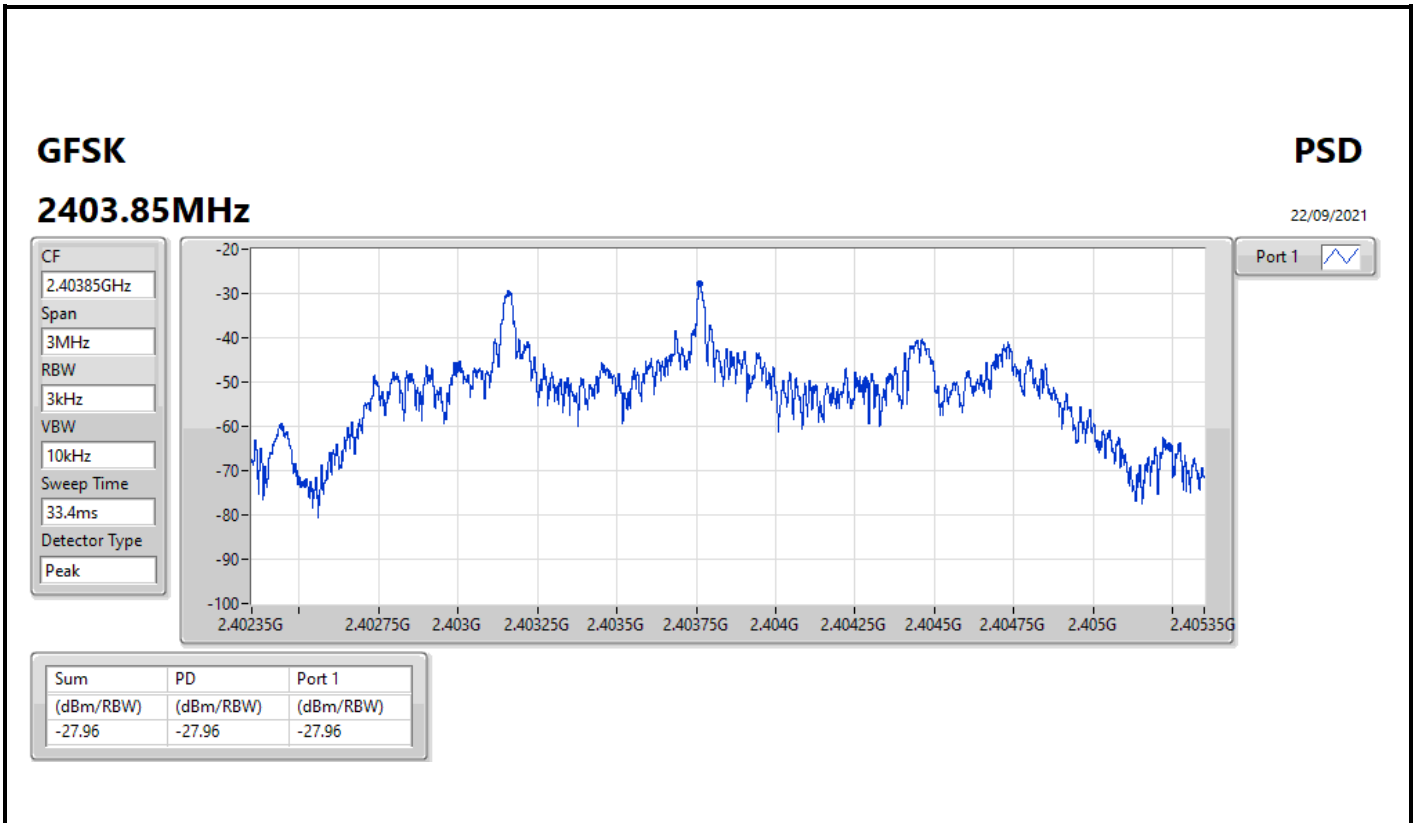
RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
GFSK	-	-	-	-	-
2403.85MHz	Pass	0.00	-27.96	-27.96	8.00
2441.85MHz	Pass	0.00	-29.32	-29.32	8.00
2479.85MHz	Pass	0.00	-29.48	-29.48	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;



GFSK

PSD

2479.85MHz

22/09/2021

CF
2.47985GHz

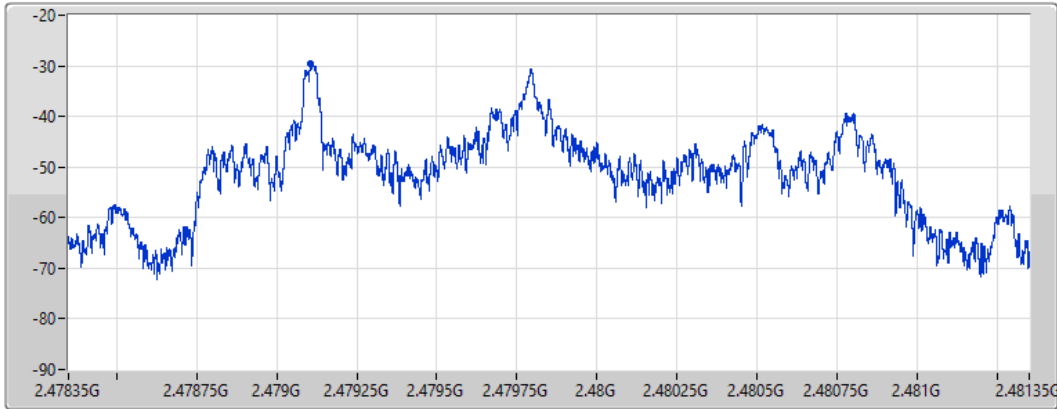
Span
3MHz


RBW
3kHz

VBW
10kHz

Sweep Time
33.4ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-29.48	-29.48	-29.48



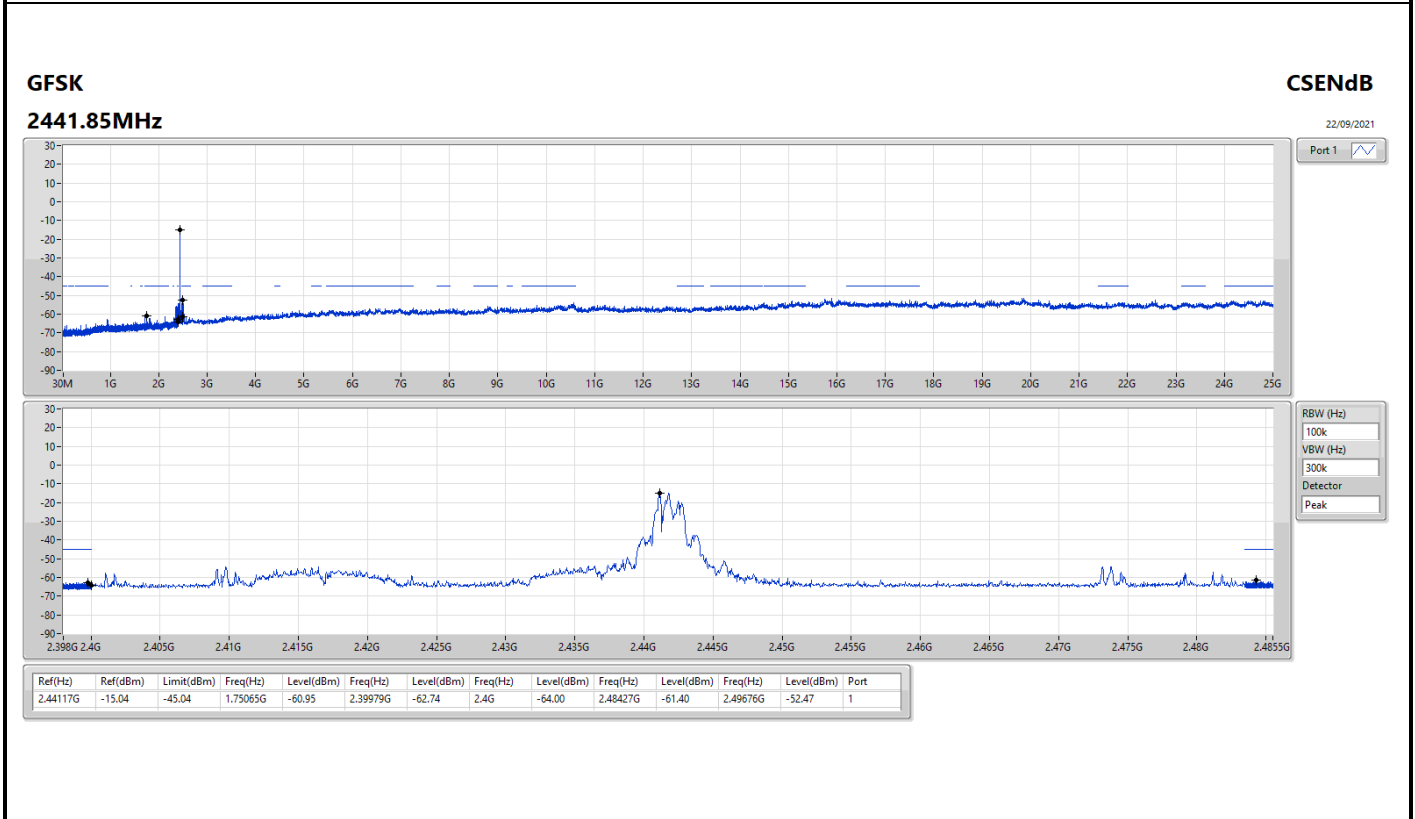
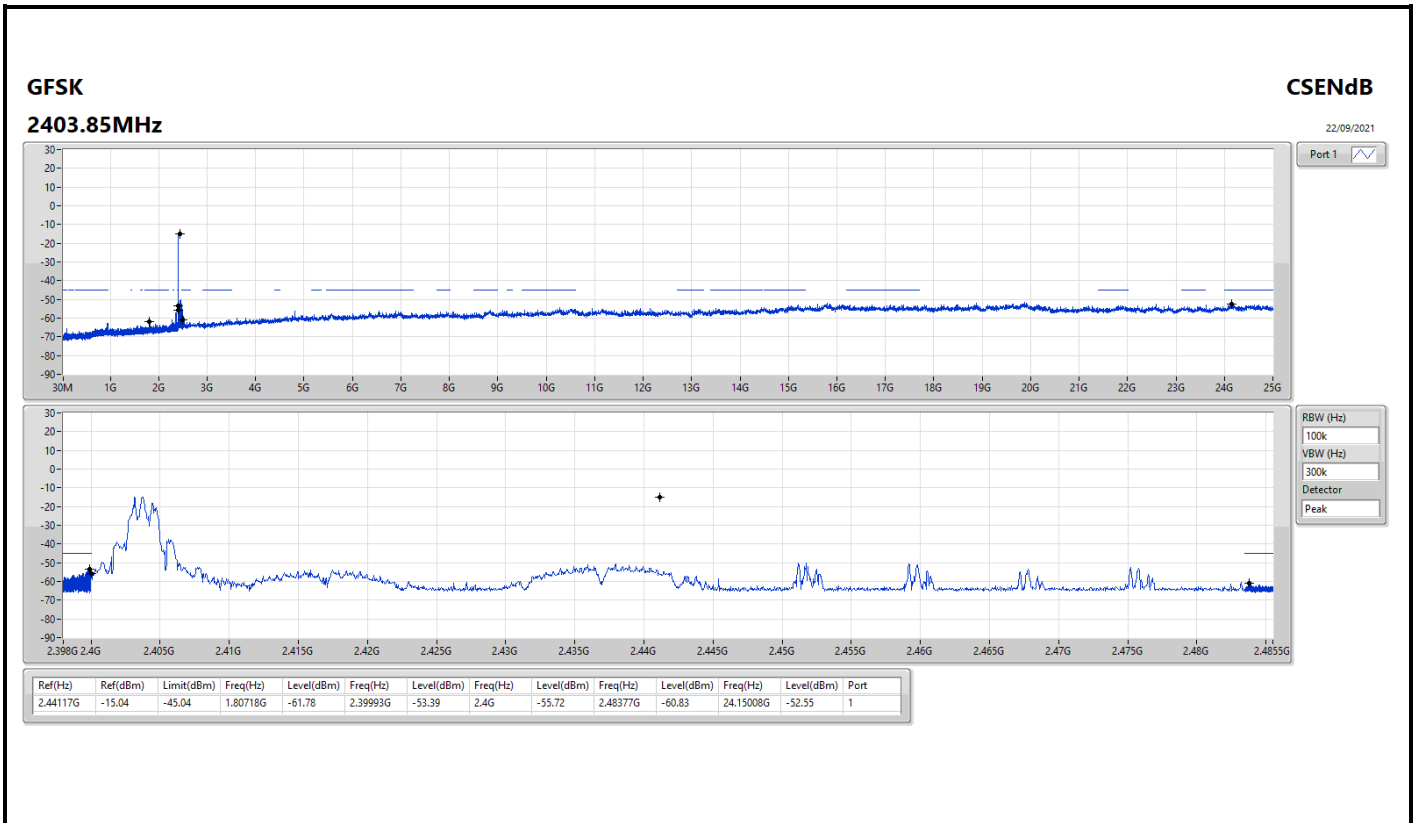
Summary

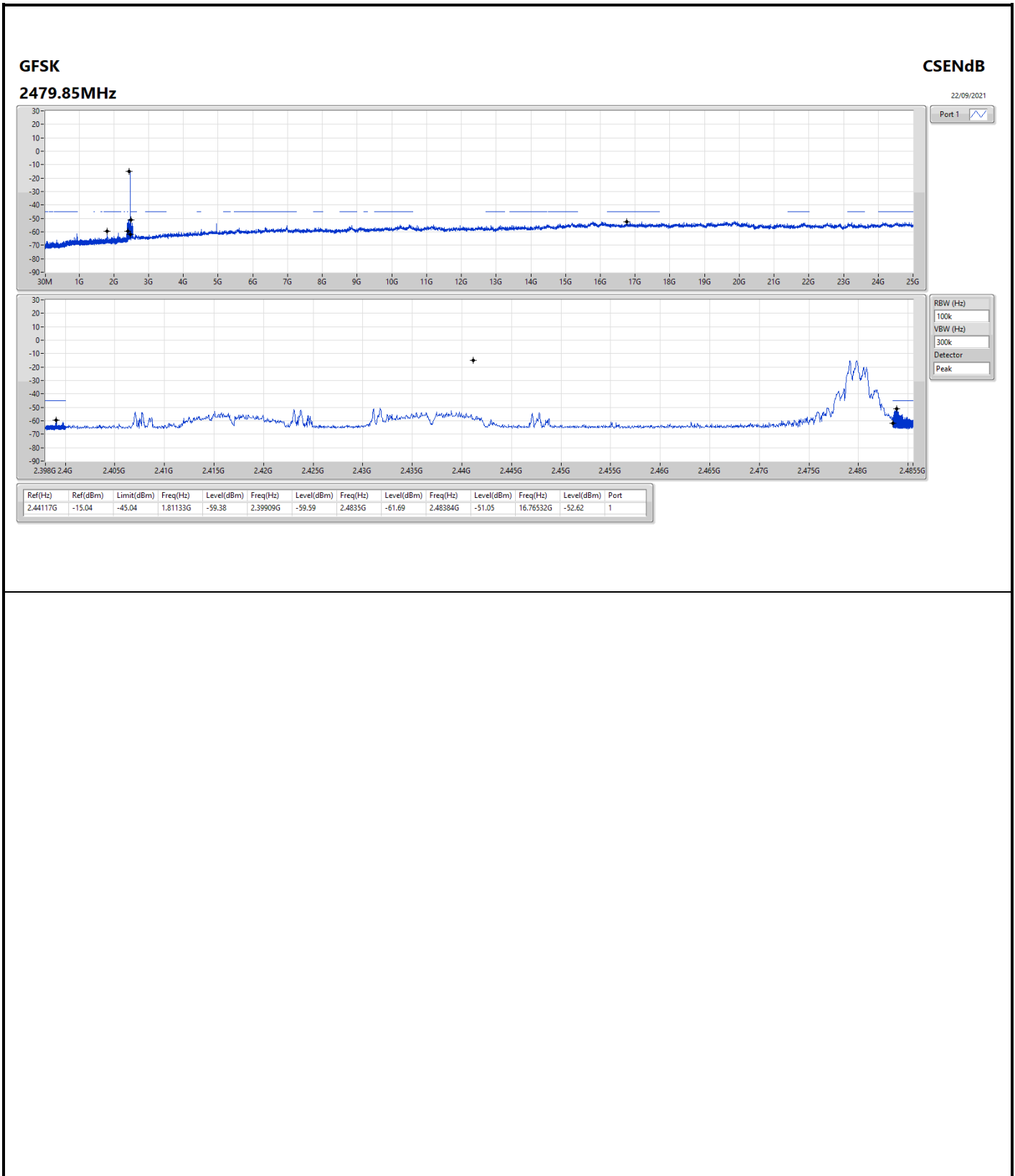
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFSK	Pass	2.44117G	-15.04	-45.04	1.81133G	-59.38	2.39909G	-59.59	2.4835G	-61.69	2.48384G	-51.05	16.76532G	-52.62	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
GFSK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2403.85MHz	Pass	2.44117G	-15.04	-45.04	1.80718G	-61.78	2.39993G	-53.39	2.4G	-55.72	2.48377G	-60.83	24.15008G	-52.55	1
2441.85MHz	Pass	2.44117G	-15.04	-45.04	1.75065G	-60.95	2.39979G	-62.74	2.4G	-64.00	2.48427G	-61.40	2.49676G	-52.47	1
2479.85MHz	Pass	2.44117G	-15.04	-45.04	1.81133G	-59.38	2.39909G	-59.59	2.4835G	-61.69	2.48384G	-51.05	16.76532G	-52.62	1







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	-	-	-	-	-	-	-	-	-	-	-
GFSK	Pass	PK	30M	30.09	40.00	-9.91	3	Vertical	0	1.00	-

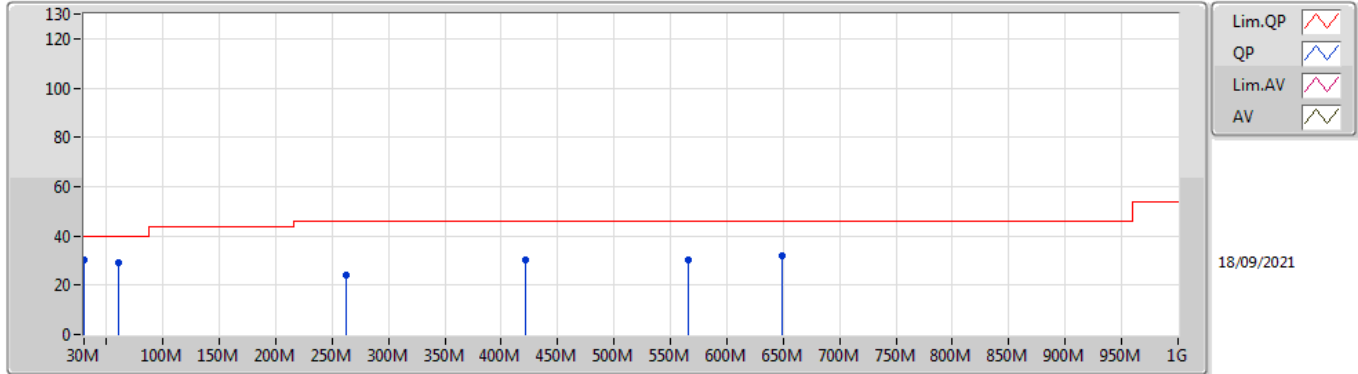


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
GFSK	-	-	-	-	-	-	-	-	-	-	-
2441.85MHz	Pass	PK	30M	30.09	40.00	-9.91	3	Vertical	0	1.00	-
2441.85MHz	Pass	PK	61.04M	29.22	40.00	-10.78	3	Vertical	0	1.00	-
2441.85MHz	Pass	PK	262.8M	24.28	46.00	-21.72	3	Vertical	0	1.00	-
2441.85MHz	Pass	PK	421.88M	30.26	46.00	-15.74	3	Vertical	0	1.00	-
2441.85MHz	Pass	PK	565.44M	30.53	46.00	-15.47	3	Vertical	0	1.00	-
2441.85MHz	Pass	PK	648.86M	32.07	46.00	-13.93	3	Vertical	0	1.00	-
2441.85MHz	Pass	PK	30M	27.89	40.00	-12.11	3	Horizontal	360	1.00	-
2441.85MHz	Pass	PK	39.7M	25.23	40.00	-14.77	3	Horizontal	360	1.00	-
2441.85MHz	Pass	PK	125.06M	22.65	43.50	-20.85	3	Horizontal	360	1.00	-
2441.85MHz	Pass	PK	324.88M	24.85	46.00	-21.15	3	Horizontal	360	1.00	-
2441.85MHz	Pass	PK	385.02M	25.99	46.00	-20.01	3	Horizontal	360	1.00	-
2441.85MHz	Pass	PK	509.18M	28.76	46.00	-17.24	3	Horizontal	360	1.00	-

GFSK

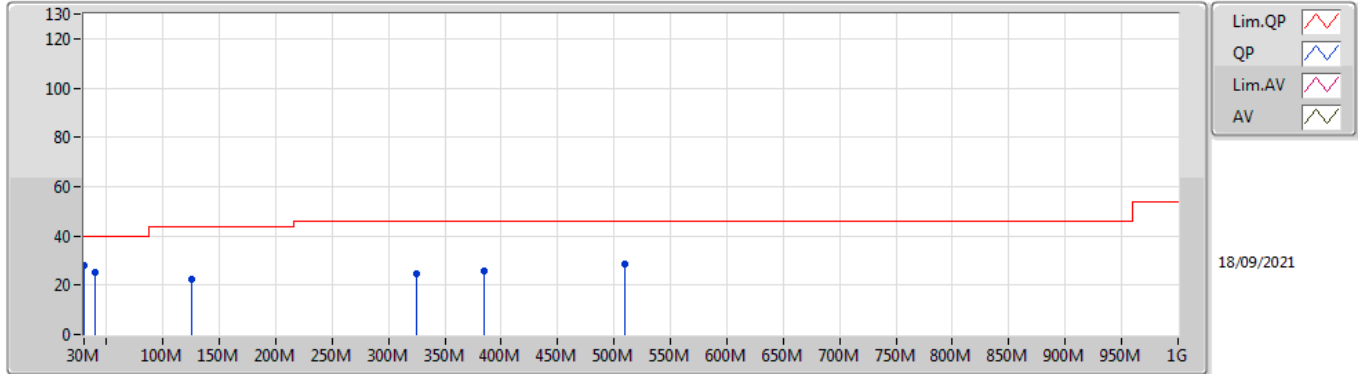
2441.85MHz_Battery



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	30M	30.09	40.00	-9.91	-2.87	3	Vertical	0	1.00	-	32.96	23.26	0.86	26.99
PK	61.04M	29.22	40.00	-10.78	-15.11	3	Vertical	0	1.00	-	44.33	11.52	1.15	27.78
PK	262.8M	24.28	46.00	-21.72	-6.16	3	Vertical	0	1.00	-	30.44	18.67	2.20	27.03
PK	421.88M	30.26	46.00	-15.74	-3.30	3	Vertical	0	1.00	-	33.56	21.80	2.81	27.91
PK	565.44M	30.53	46.00	-15.47	-1.15	3	Vertical	0	1.00	-	31.68	23.95	3.25	28.35
PK	648.86M	32.07	46.00	-13.93	-0.56	3	Vertical	0	1.00	-	32.63	24.20	3.45	28.21

GFSK

2441.85MHz_Battery



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	30M	27.89	40.00	-12.11	-2.87	3	Horizontal	360	1.00	-	30.76	23.26	0.86	26.99
PK	39.7M	25.23	40.00	-14.77	-8.49	3	Horizontal	360	1.00	-	33.72	17.92	0.96	27.37
PK	125.06M	22.65	43.50	-20.85	-8.85	3	Horizontal	360	1.00	-	31.50	17.33	1.57	27.75
PK	324.88M	24.85	46.00	-21.15	-5.92	3	Horizontal	360	1.00	-	30.77	18.82	2.45	27.19
PK	385.02M	25.99	46.00	-20.01	-4.71	3	Horizontal	360	1.00	-	30.70	20.26	2.68	27.65
PK	509.18M	28.76	46.00	-17.24	-2.56	3	Horizontal	360	1.00	-	31.32	22.68	3.10	28.34



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	-	-	-	-	-	-	-	-	-	-	-
GFSK	Pass	AV	4.95824G	52.81	54.00	-1.19	3	Vertical	102	2.03	-

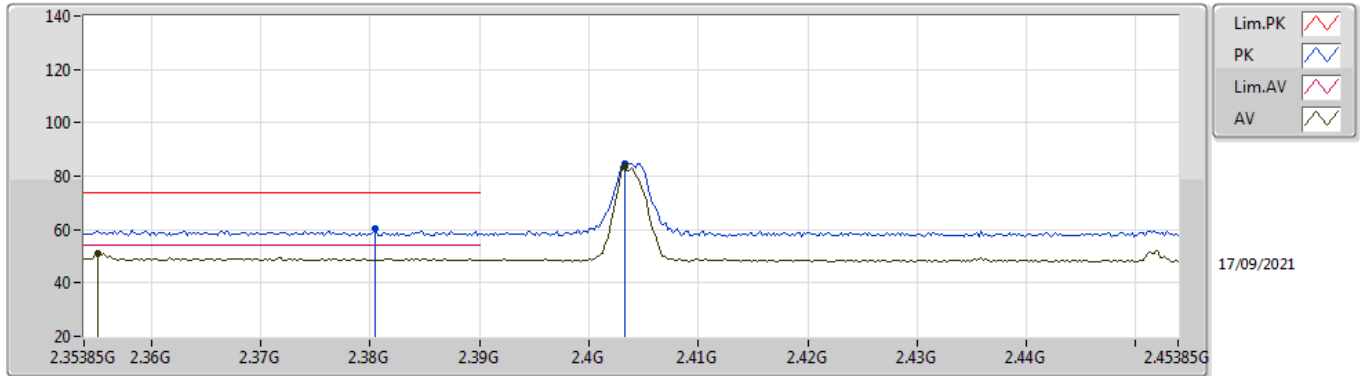


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
GFSK	-	-	-	-	-	-	-	-	-	-	-
2403.85MHz	Pass	AV	2.35505G	51.07	54.00	-2.93	3	Vertical	312	2.14	-
2403.85MHz	Pass	AV	2.40325G	83.50	Inf	-Inf	3	Vertical	312	2.14	-
2403.85MHz	Pass	PK	2.38045G	60.09	74.00	-13.91	3	Vertical	312	2.14	-
2403.85MHz	Pass	PK	2.40325G	84.83	Inf	-Inf	3	Vertical	312	2.14	-
2403.85MHz	Pass	AV	2.35505G	49.64	54.00	-4.36	3	Horizontal	360	1.17	-
2403.85MHz	Pass	AV	2.40325G	80.66	Inf	-Inf	3	Horizontal	360	1.17	-
2403.85MHz	Pass	PK	2.35545G	59.78	74.00	-14.22	3	Horizontal	360	1.17	-
2403.85MHz	Pass	PK	2.40325G	82.07	Inf	-Inf	3	Horizontal	360	1.17	-
2403.85MHz	Pass	AV	4.8075G	51.07	54.00	-2.93	3	Vertical	107	1.93	-
2403.85MHz	Pass	PK	4.80754G	53.63	74.00	-20.37	3	Vertical	107	1.93	-
2403.85MHz	Pass	AV	4.80631G	47.10	54.00	-6.90	3	Horizontal	331	1.50	-
2403.85MHz	Pass	PK	4.80748G	50.37	74.00	-23.63	3	Horizontal	331	1.50	-
2441.85MHz	Pass	AV	2.37785G	49.33	54.00	-4.67	3	Vertical	327	1.94	-
2441.85MHz	Pass	AV	2.44145G	81.14	Inf	-Inf	3	Vertical	327	1.94	-
2441.85MHz	Pass	AV	2.48945G	50.21	54.00	-3.79	3	Vertical	327	1.94	-
2441.85MHz	Pass	PK	2.38265G	60.08	74.00	-13.92	3	Vertical	327	1.94	-
2441.85MHz	Pass	PK	2.44185G	82.45	Inf	-Inf	3	Vertical	327	1.94	-
2441.85MHz	Pass	PK	2.48945G	59.80	74.00	-14.20	3	Vertical	327	1.94	-
2441.85MHz	Pass	AV	2.34465G	49.49	54.00	-4.51	3	Horizontal	0	1.00	-
2441.85MHz	Pass	AV	2.44145G	81.12	Inf	-Inf	3	Horizontal	0	1.00	-
2441.85MHz	Pass	AV	2.48985G	50.29	54.00	-3.71	3	Horizontal	0	1.00	-
2441.85MHz	Pass	PK	2.34185G	59.55	74.00	-14.45	3	Horizontal	0	1.00	-
2441.85MHz	Pass	PK	2.44185G	82.46	Inf	-Inf	3	Horizontal	0	1.00	-
2441.85MHz	Pass	PK	2.49585G	58.74	74.00	-15.26	3	Horizontal	0	1.00	-
2441.85MHz	Pass	AV	4.88234G	52.23	54.00	-1.77	3	Vertical	106	2.00	-
2441.85MHz	Pass	AV	7.32758G	39.48	54.00	-14.52	3	Vertical	1	1.50	-
2441.85MHz	Pass	PK	4.88355G	54.63	74.00	-19.37	3	Vertical	106	2.00	-
2441.85MHz	Pass	PK	7.32333G	50.43	74.00	-23.57	3	Vertical	1	1.50	-
2441.85MHz	Pass	AV	4.88229G	47.78	54.00	-6.22	3	Horizontal	320	1.01	-
2441.85MHz	Pass	AV	7.325G	39.58	54.00	-14.42	3	Horizontal	111	1.36	-
2441.85MHz	Pass	PK	4.8823G	51.08	74.00	-22.92	3	Horizontal	320	1.01	-
2441.85MHz	Pass	PK	7.32627G	50.70	74.00	-23.30	3	Horizontal	111	1.36	-
2479.85MHz	Pass	AV	2.47925G	80.73	Inf	-Inf	3	Vertical	345	1.50	-
2479.85MHz	Pass	AV	2.48465G	48.71	54.00	-5.29	3	Vertical	345	1.50	-
2479.85MHz	Pass	PK	2.47985G	82.31	Inf	-Inf	3	Vertical	345	1.50	-
2479.85MHz	Pass	PK	2.49805G	59.74	74.00	-14.26	3	Vertical	345	1.50	-
2479.85MHz	Pass	AV	2.47905G	81.62	Inf	-Inf	3	Horizontal	2	1.22	-
2479.85MHz	Pass	AV	2.49425G	48.97	54.00	-5.03	3	Horizontal	2	1.22	-
2479.85MHz	Pass	PK	2.47985G	83.02	Inf	-Inf	3	Horizontal	2	1.22	-
2479.85MHz	Pass	PK	2.4835G	60.17	74.00	-13.83	3	Horizontal	2	1.22	-
2479.85MHz	Pass	AV	4.95824G	52.81	54.00	-1.19	3	Vertical	102	2.03	-
2479.85MHz	Pass	AV	7.4379G	39.65	54.00	-14.35	3	Vertical	18	1.54	-
2479.85MHz	Pass	PK	4.95951G	55.21	74.00	-18.79	3	Vertical	102	2.03	-
2479.85MHz	Pass	PK	7.44003G	50.68	74.00	-23.32	3	Vertical	18	1.54	-
2479.85MHz	Pass	AV	4.95826G	47.64	54.00	-6.36	3	Horizontal	321	1.00	-
2479.85MHz	Pass	AV	7.44055G	39.11	54.00	-14.89	3	Horizontal	115	1.85	-
2479.85MHz	Pass	PK	4.95958G	51.21	74.00	-22.79	3	Horizontal	321	1.00	-
2479.85MHz	Pass	PK	7.44029G	49.60	74.00	-24.40	3	Horizontal	115	1.85	-

GFSK

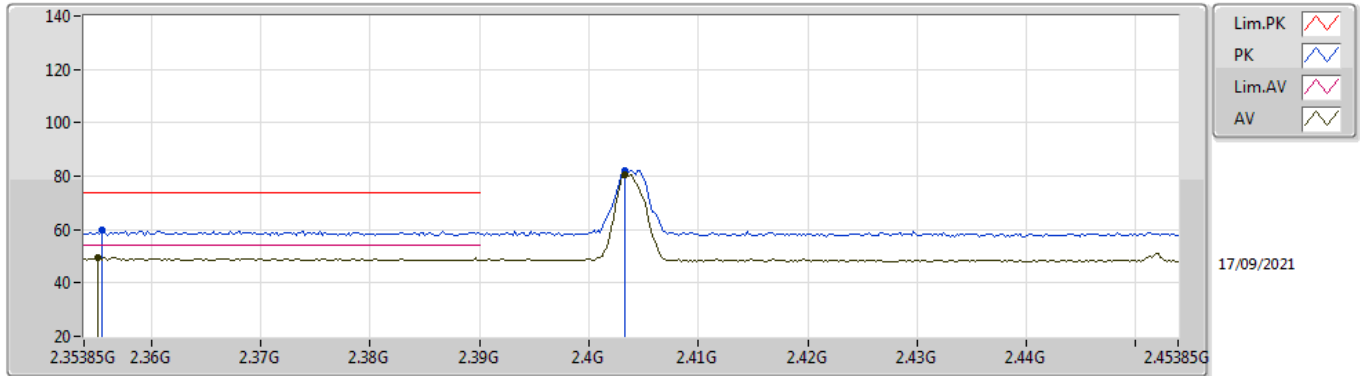
2403.85MHz_TX



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)
AV	2.35505G	51.07	54.00	-2.93	35.03	3	Vertical	312	2.14	-	16.04	27.79	7.24	-
AV	2.40325G	83.50	Inf	-Inf	34.94	3	Vertical	312	2.14	-	48.56	27.68	7.26	-
PK	2.38045G	60.09	74.00	-13.91	34.99	3	Vertical	312	2.14	-	25.10	27.74	7.25	-
PK	2.40325G	84.83	Inf	-Inf	34.94	3	Vertical	312	2.14	-	49.89	27.68	7.26	-

GFSK

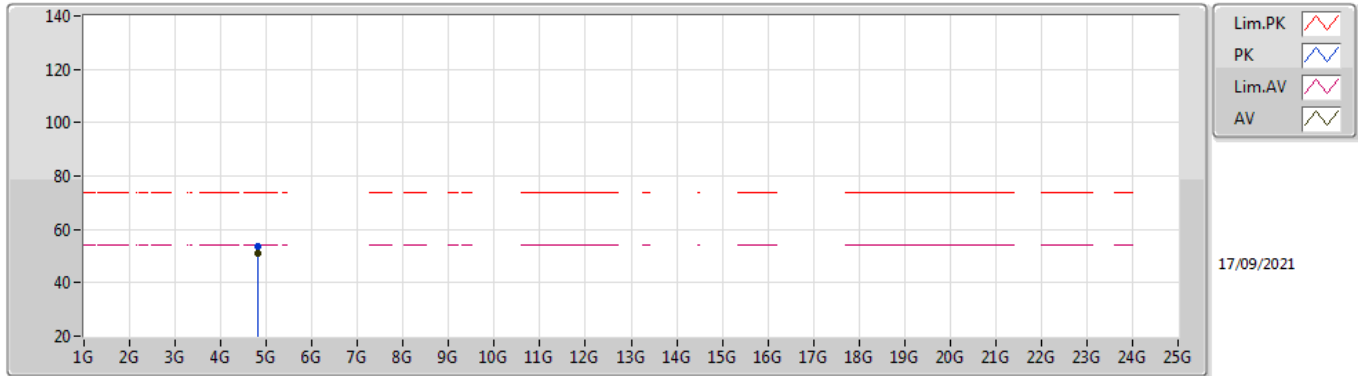
2403.85MHz_TX



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)
AV	2.35505G	49.64	54.00	-4.36	35.03	3	Horizontal	360	1.17	-	14.61	27.79	7.24	-
AV	2.40325G	80.66	Inf	-Inf	34.94	3	Horizontal	360	1.17	-	45.72	27.68	7.26	-
PK	2.35545G	59.78	74.00	-14.22	35.03	3	Horizontal	360	1.17	-	24.75	27.79	7.24	-
PK	2.40325G	82.07	Inf	-Inf	34.94	3	Horizontal	360	1.17	-	47.13	27.68	7.26	-

GFSK

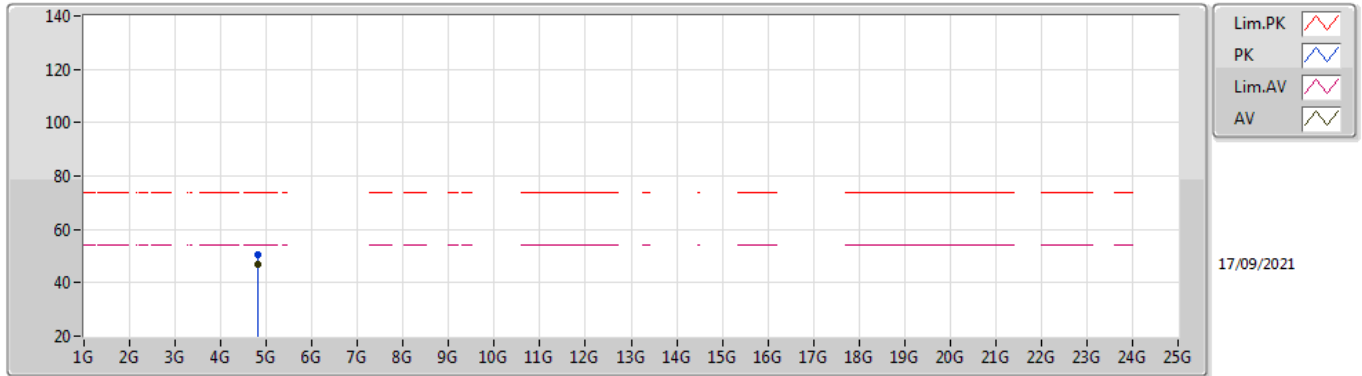
2403.85MHz_TX



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)
AV	4.8075G	51.07	54.00	-2.93	5.74	3	Vertical	107	1.93	-	45.33	31.12	8.91	34.29
PK	4.80754G	53.63	74.00	-20.37	5.74	3	Vertical	107	1.93	-	47.89	31.12	8.91	34.29

GFSK

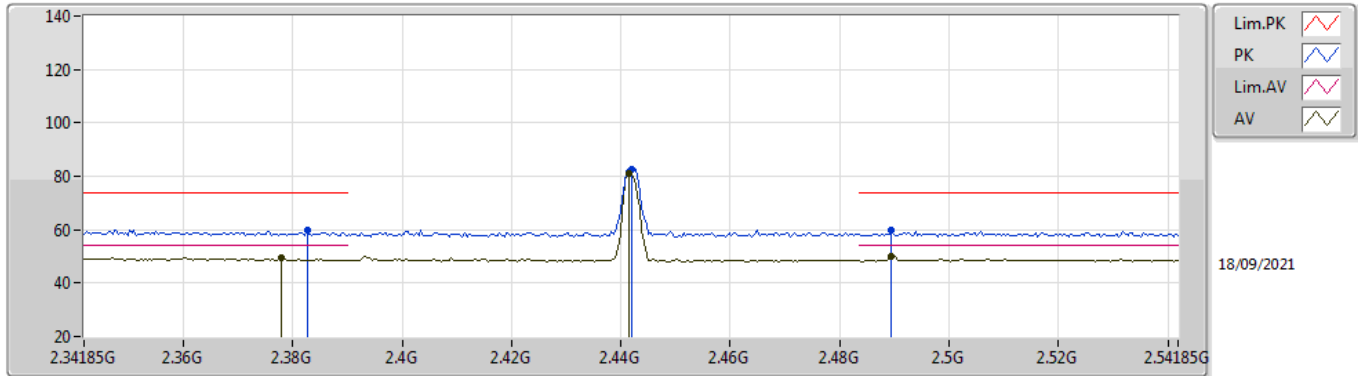
2403.85MHz_TX



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)
AV	4.80631G	47.10	54.00	-6.90	5.72	3	Horizontal	331	1.50	-	41.38	31.11	8.90	34.29
PK	4.80748G	50.37	74.00	-23.63	5.73	3	Horizontal	331	1.50	-	44.64	31.11	8.91	34.29

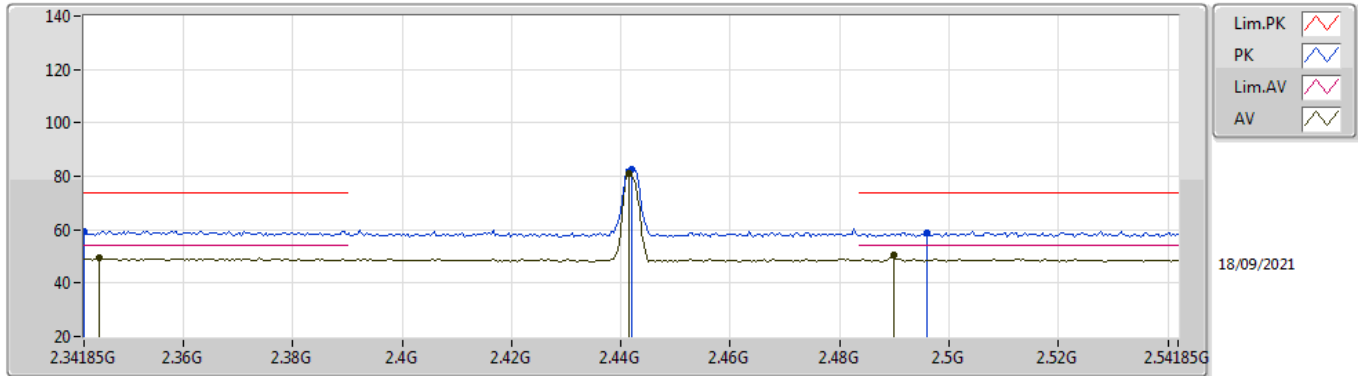
GFSK

2441.85MHz_TX



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)
AV	2.37785G	49.33	54.00	-4.67	34.99	3	Vertical	327	1.94	-	14.34	27.74	7.25	-
AV	2.44145G	81.14	Inf	-Inf	34.74	3	Vertical	327	1.94	-	46.40	27.45	7.29	-
AV	2.48945G	50.21	54.00	-3.79	34.73	3	Vertical	327	1.94	-	15.48	27.40	7.33	-
PK	2.38265G	60.08	74.00	-13.92	34.98	3	Vertical	327	1.94	-	25.10	27.73	7.25	-
PK	2.44185G	82.45	Inf	-Inf	34.74	3	Vertical	327	1.94	-	47.71	27.45	7.29	-
PK	2.48945G	59.80	74.00	-14.20	34.73	3	Vertical	327	1.94	-	25.07	27.40	7.33	-

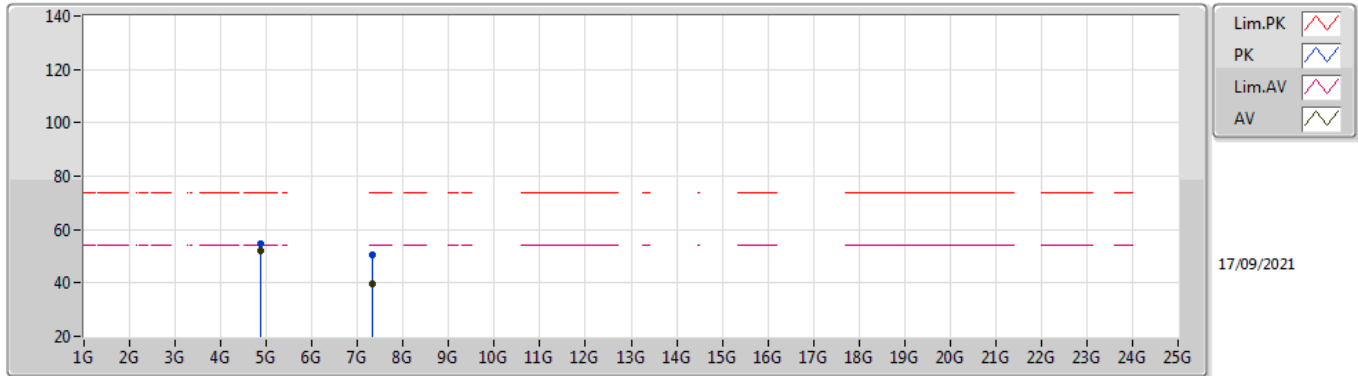
GFSK
2441.85MHz_TX



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)
AV	2.34465G	49.49	54.00	-4.51	35.05	3	Horizontal	0	1.00	-	14.44	27.81	7.24	-
AV	2.44145G	81.12	Inf	-Inf	34.74	3	Horizontal	0	1.00	-	46.38	27.45	7.29	-
AV	2.48985G	50.29	54.00	-3.71	34.73	3	Horizontal	0	1.00	-	15.56	27.40	7.33	-
PK	2.34185G	59.55	74.00	-14.45	35.05	3	Horizontal	0	1.00	-	24.50	27.82	7.23	-
PK	2.44185G	82.46	Inf	-Inf	34.74	3	Horizontal	0	1.00	-	47.72	27.45	7.29	-
PK	2.49585G	58.74	74.00	-15.26	34.74	3	Horizontal	0	1.00	-	24.00	27.40	7.34	-

GFSK

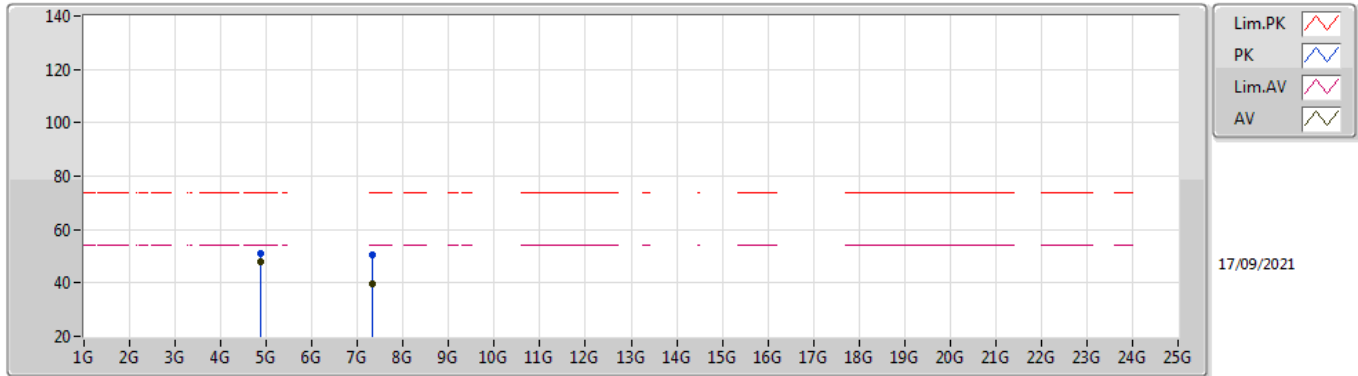
2441.85MHz_TX



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)
AV	4.88234G	52.23	54.00	-1.77	5.90	3	Vertical	106	2.00	-	46.33	31.20	8.96	34.26
AV	7.32758G	39.48	54.00	-14.52	12.40	3	Vertical	1	1.50	-	27.08	36.34	10.64	34.58
PK	4.88355G	54.63	74.00	-19.37	5.90	3	Vertical	106	2.00	-	48.73	31.20	8.96	34.26
PK	7.32333G	50.43	74.00	-23.57	12.40	3	Vertical	1	1.50	-	38.03	36.35	10.63	34.58

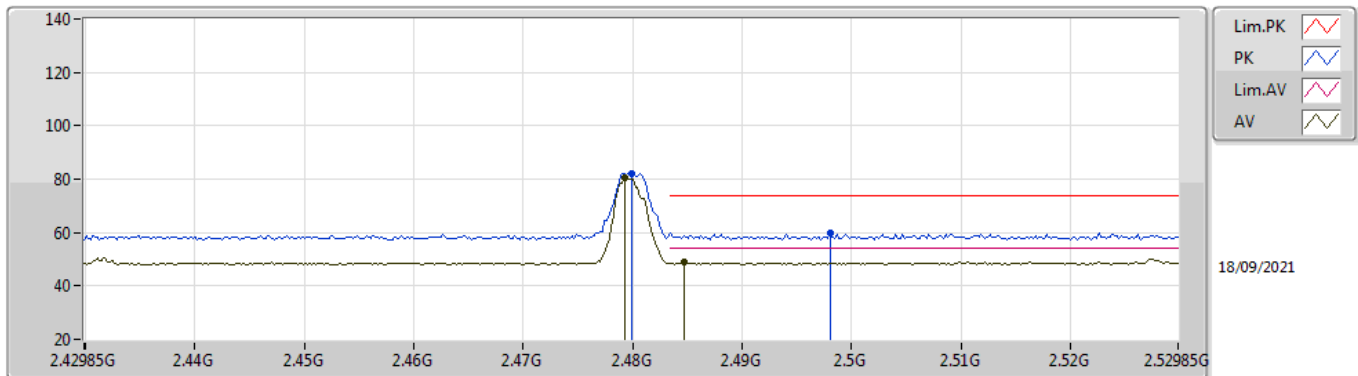
GFSK

2441.85MHz_TX



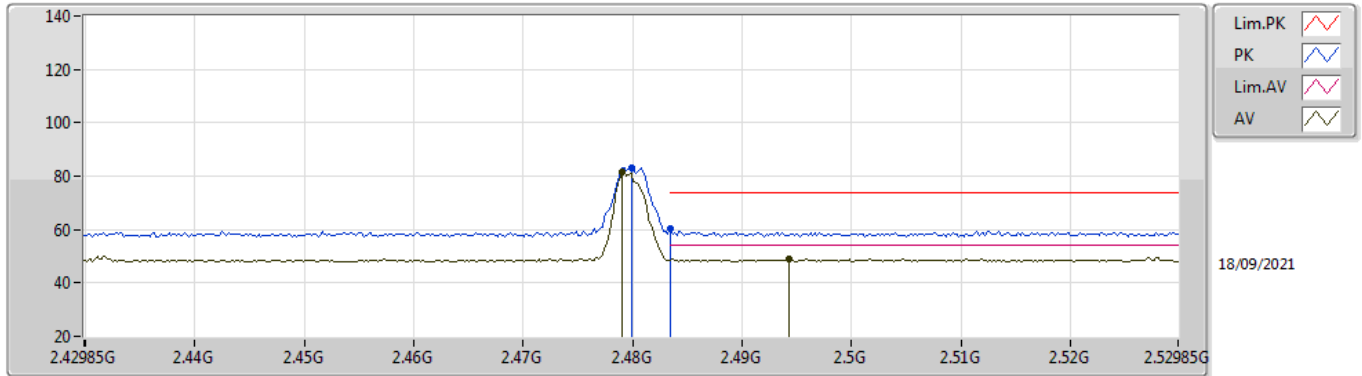
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88229G	47.78	54.00	-6.22	5.90	3	Horizontal	320	1.01	-	41.88	31.20	8.96	34.26
AV	7.325G	39.58	54.00	-14.42	12.40	3	Horizontal	111	1.36	-	27.18	36.35	10.63	34.58
PK	4.8823G	51.08	74.00	-22.92	5.90	3	Horizontal	320	1.01	-	45.18	31.20	8.96	34.26
PK	7.32627G	50.70	74.00	-23.30	12.41	3	Horizontal	111	1.36	-	38.29	36.35	10.64	34.58

GFSK
2479.85MHz_TX



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)
AV	2.47925G	80.73	Inf	-Inf	34.72	3	Vertical	345	1.50	-	46.01	27.40	7.32	-
AV	2.48465G	48.71	54.00	-5.29	34.73	3	Vertical	345	1.50	-	13.98	27.40	7.33	-
PK	2.47985G	82.31	Inf	-Inf	34.72	3	Vertical	345	1.50	-	47.59	27.40	7.32	-
PK	2.49805G	59.74	74.00	-14.26	34.74	3	Vertical	345	1.50	-	25.00	27.40	7.34	-

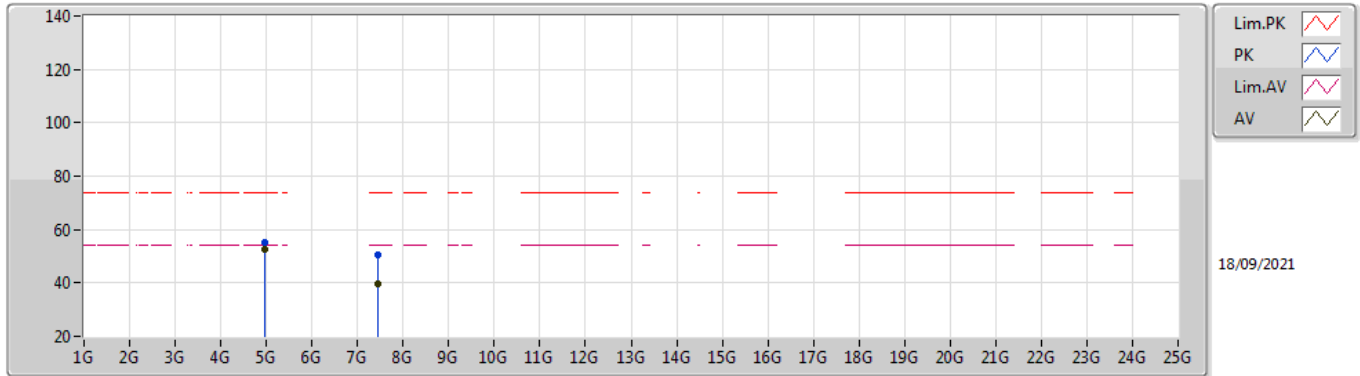
GFSK
2479.85MHz_TX



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)
AV	2.47905G	81.62	Inf	-Inf	34.72	3	Horizontal	2	1.22	-	46.90	27.40	7.32	-
AV	2.49425G	48.97	54.00	-5.03	34.74	3	Horizontal	2	1.22	-	14.23	27.40	7.34	-
PK	2.47985G	83.02	Inf	-Inf	34.72	3	Horizontal	2	1.22	-	48.30	27.40	7.32	-
PK	2.4835G	60.17	74.00	-13.83	34.73	3	Horizontal	2	1.22	-	25.44	27.40	7.33	-

GFSK

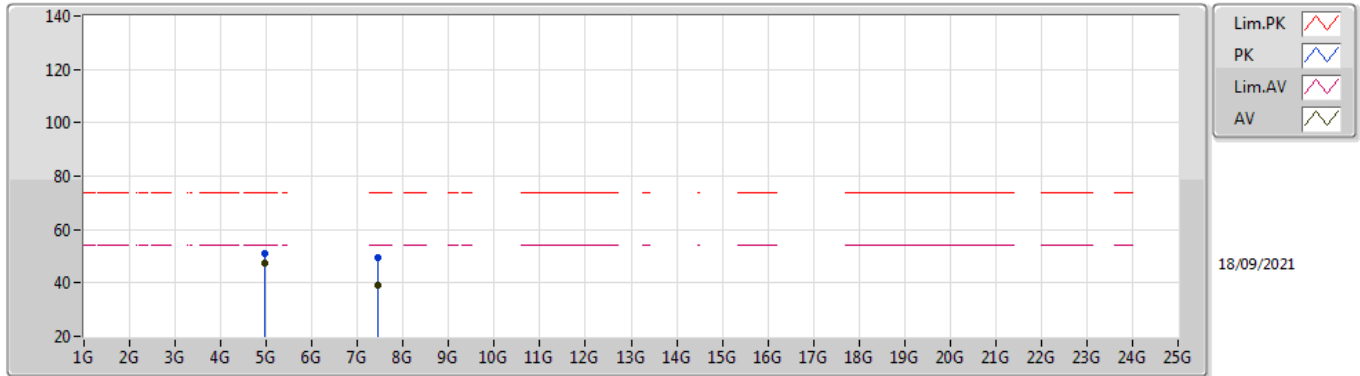
2479.85MHz_TX



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)
AV	4.95824G	52.81	54.00	-1.19	6.21	3	Vertical	102	2.03	-	46.60	31.42	9.02	34.23
AV	7.4379G	39.65	54.00	-14.35	12.41	3	Vertical	18	1.54	-	27.24	36.28	10.72	34.59
PK	4.95951G	55.21	74.00	-18.79	6.21	3	Vertical	102	2.03	-	49.00	31.42	9.02	34.23
PK	7.44003G	50.68	74.00	-23.32	12.41	3	Vertical	18	1.54	-	38.27	36.28	10.72	34.59

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2479.85MHz_TX



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)
AV	4.95826G	47.64	54.00	-6.36	6.21	3	Horizontal	321	1.00	-	41.43	31.42	9.02	34.23
AV	7.44055G	39.11	54.00	-14.89	12.41	3	Horizontal	115	1.85	-	26.70	36.28	10.72	34.59
PK	4.95958G	51.21	74.00	-22.79	6.21	3	Horizontal	321	1.00	-	45.00	31.42	9.02	34.23
PK	7.44029G	49.60	74.00	-24.40	12.41	3	Horizontal	115	1.85	-	37.19	36.28	10.72	34.59