FCC Test Report

FCC ID	:	**SUFIFT27PL4A**
Equipment	:	**InfoTag 7.3 G3 COLOUR** **InfoTag 7.5 G3 COLOUR**
Model No.	:	**InfoTag 7.3 ; InfoTag 7.5 G3**
Brand Name	:	**DIGI**
Applicant	:	**DIGI SINGAPORE PTE. LTD.**
Address	:	**4 Leng Kee Rd, #05-03/04/05&11, SIS Building, Singapore 159088**
Standard	:	**47 CFR FCC Part 15.249**
Received Date	:	**May 04, 2023**
Tested Date	:	**May 08 ~ May 09, 2023**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:	**Approved by:**
Along Chen / Assistant Manager	**Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
FR291201-01	Rev. 01	Initial issue	May 30, 2023
FR291201-01	Rev. 02	Adding Attenuator and filter into the Equipment List.	Jun. 13, 2023
FR291201-01	Rev. 03	Updating model name	Jun. 30, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	Note[1]	N/A
15.249(a)	Field Strength of Fundamental	Meet the requirement of limit	Pass
15.249(a)(d)	Field Strength of Harmonics and Emissions Radiated outside of the Specified Frequency Bands	Meet the requirement of limit	Pass
15.215(c)	20dB bandwidth	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

N/A means Not Applicable.
Note[1]: The EUT consumes DC power from battery, so the test is not required.

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:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
DIGI	InfoTag 7.3	InfoTag 7.3 G3 COLOUR	Using same PCBA, only panel size different.
DIGI	InfoTag 7.5 G3	InfoTag 7.5 G3 COLOUR	

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	**Modulation**	**Ch. Freq. (MHz)**	**Channel Number**	**Data Rate**
2402-2480	GFSK	2402-2480	0-78 [79]	250kbps

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	DIGI SINGAPORE PTE. LTD.	DIGI2.4GIFA	PCB ANTENNA	LAYOUT ON PCB BOARD	+3.3dB

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Type	3Vdc from battery (Coin Battery x6)

1.1.5 Accessories

N/A

1.1.6 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	SmartRF_Studio_7, Version: 7.0	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	42.77	3.69

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
GFSK	Default	Default	Default

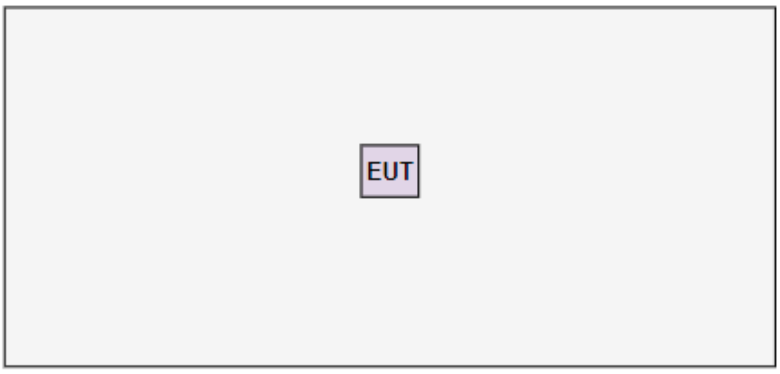
1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Laptop	DELL	Latitude 5400	DoC	---
2	Fixture	DIGI	SmartRF05EB	---	Provided by applicant.

Note: The support laptop and fixture are disconnected from EUT and removed from testing table after sending command from laptop to control EUT to transmit and receive continuously.

1.3 Test Setup Chart

Test Setup Diagram



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	May 08 ~ May 09, 2023				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Spectrum Analyzer	R&S	FSV40	101499	Mar. 16, 2023	Mar. 15, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 15, 2022	Dec. 14, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980897	Aug. 01, 2022	Jul. 31, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Sep. 23, 2022	Sep. 22, 2023
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 23, 2022	Sep. 22, 2023
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 23, 2022	Sep. 22, 2023
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 23, 2022	Sep. 22, 2023
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 23, 2022	Sep. 22, 2023
Attenuator	woken	PE7013-10	10-1	Oct. 14, 2022	Oct. 13, 2023
HIGHPASS FILTER	WI	WHK3.1-18G-10SS	43	Sep. 28, 2022	Sep. 27, 2023
Measurement Software	Sporton	SENSE-15247_DTS	V5.11.3	NA	NA
Measurement Software	Sporton	SENSE-EMI	V5.10.8	NA	NA
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.249
ANSI C63.10-2013

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Unwanted Emission ≤ 1GHz	±3.96 dB
Unwanted Emission > 1GHz	±4.51 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Mode
Unwanted Emissions ≤ 1GHz	GFSK	2440	250 kbps	1
		2402		2
Unwanted Emissions > 1GHz	GFSK	2402, 2440, 2480	250 kbps	1
Field Strength of Fundamental	GFSK	2402, 2440, 2480	250 kbps	1
20dB bandwidth	GFSK	2402, 2440, 2480	250 kbps	1

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. Test modes are listed as follows:
   1) Test mode 1: model: InfoTag 7.3
   2) Test mode 2: model: InfoTag 7.5 G3

3 Transmitter Test Results

3.1 Unwanted Emission

This section includes field strength of fundamental, field strength of harmonics and emissions radiated outside of the operating frequency bands.

3.1.1 Limit of field strength of fundamental and field strength of harmonics

Fundamental Frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400–2483.5 MHz	50	500

3.1.2 Limit of Unwanted Emissions

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in below table, whichever is the lesser attenuation.

Radiated emission limits			
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:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.3 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

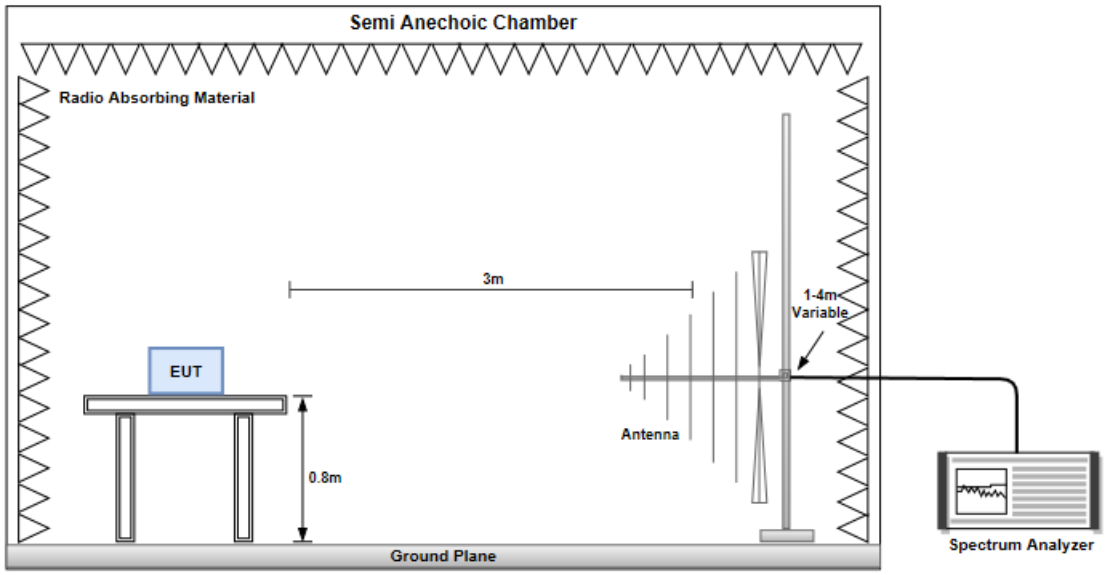
1. Radiated emission below 1GHz
   120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission
2. Radiated emission above 1GHz / Peak value except fundamental
   RBW=1MHz, VBW=3MHz and Peak detector
3. Radiated emission above 1GHz / Average value for field strength of fundamental and harmonics
   The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

$$20\log(\text{Duty cycle}) = 20\log\frac{0.66087\text{x}3\text{ms}}{100\text{ ms}} = -34.06\text{dB}$$

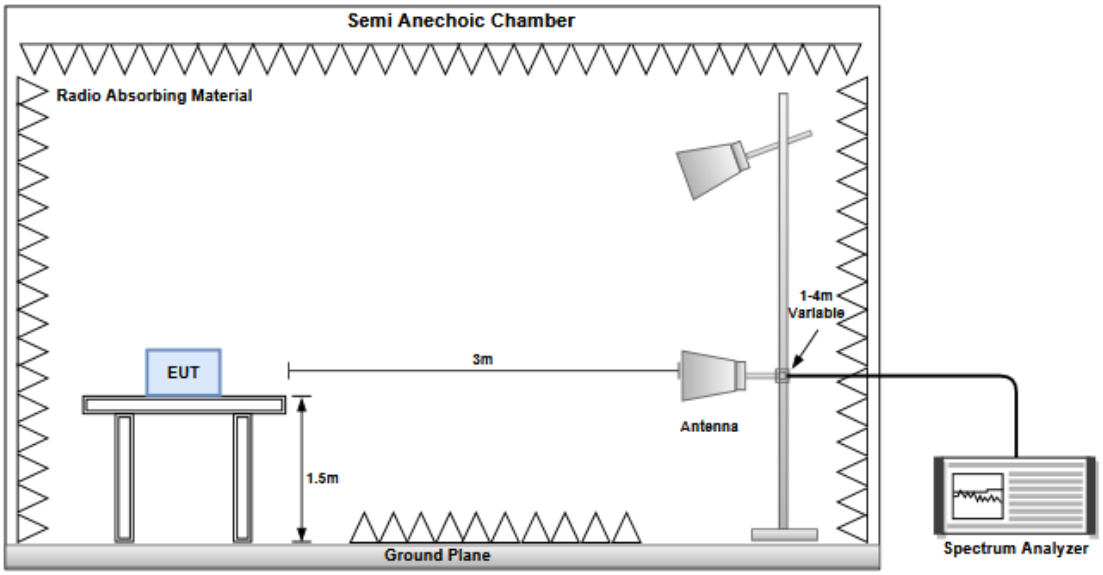
4. Radiated emission above 1GHz / Average value for other emissions
   RBW=1MHz, VBW=1/T and Peak detector
5. Radiated emission Peak value for fundamental
   RBW=2MHz, VBW=10MHz and Peak detector

3.1.4 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.5 Test Results

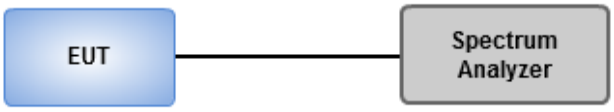
Refer to Appendix A.

3.2 20dB and Occupied Bandwidth

3.2.1 Test Procedures

1. Set resolution bandwidth (RBW) = 10 kHz, Video bandwidth = 30 kHz.
2. Detector = Peak, Trace mode = max hold
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.
5. Use the occupied measurement function of specturm analyzer to measure 99% occupied bandwidth.

3.2.2 Test Setup



3.2.3 Test Results

Ambient Condition	24°C / 65%	**Tested By**	Paul Lin

Refer to Appendix B.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

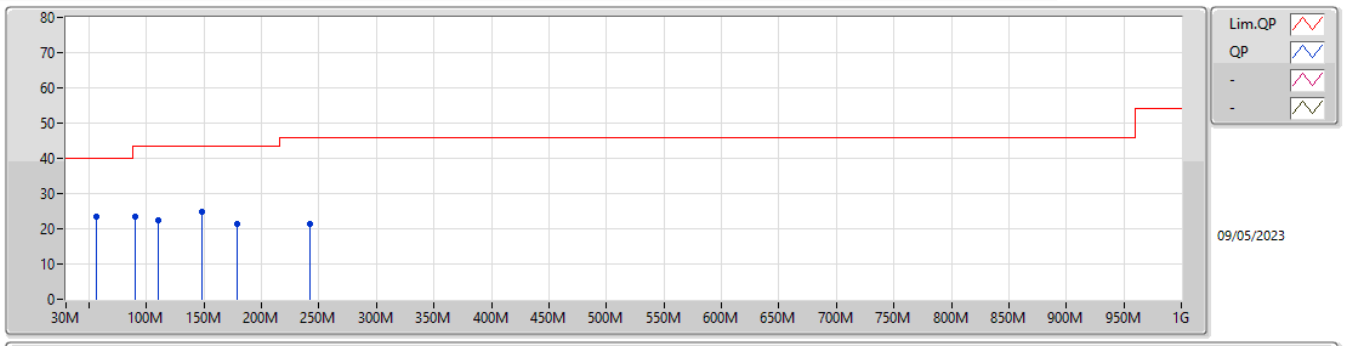
Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

==END==

Summary

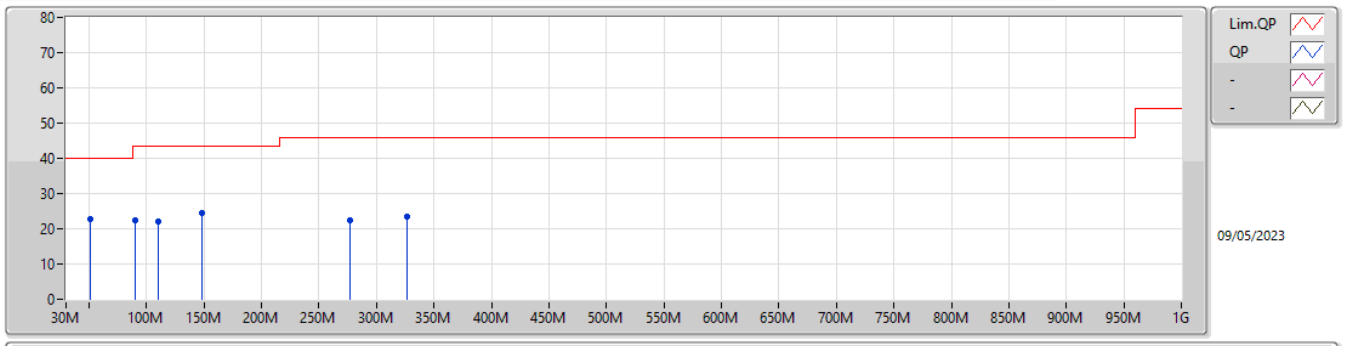
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	56.71M	23.44	40.00	-16.56	Vertical
Mode 2	Pass	PK	48.28M	23.03	40.00	-16.97	Vertical

Mode 1



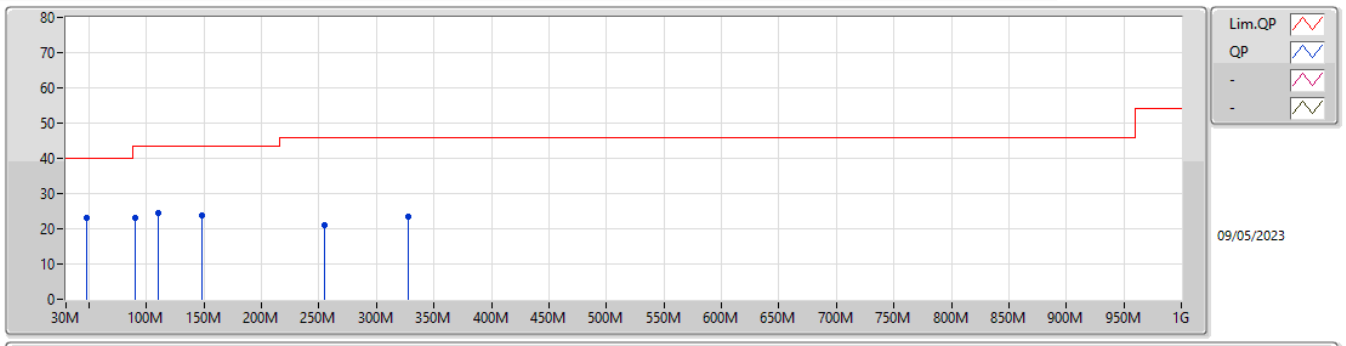
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	90.45M	23.49	43.50	-20.01	-14.54	3	Vertical	-	-	-	38.03	12.64	0.89	28.07
PK	56.71M	23.44	40.00	-16.56	-8.68	3	Vertical	-	-	-	32.12	18.53	0.73	27.94
PK	110.13M	22.37	43.50	-21.13	-11.98	3	Vertical	-	-	-	34.35	15.10	1.02	28.10
PK	148.09M	24.83	43.50	-18.67	-8.63	3	Vertical	-	-	-	33.46	18.31	1.21	28.15
PK	179.01M	21.53	43.50	-21.97	-9.92	3	Vertical	-	-	-	31.45	16.90	1.36	28.18
PK	242.28M	21.55	46.00	-24.45	-9.81	3	Vertical	-	-	-	31.36	16.75	1.63	28.19

Mode 1



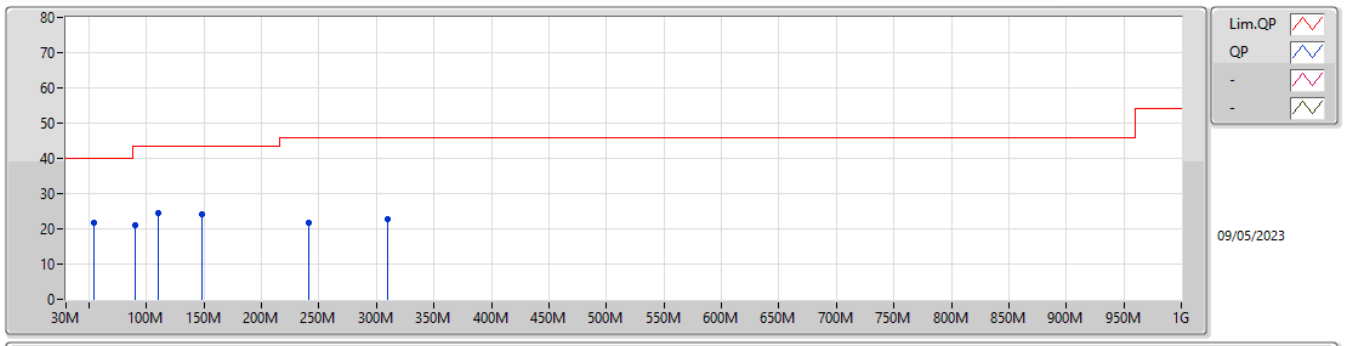
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	51.09M	22.67	40.00	-17.33	-8.22	3	Horizontal	-	-	-	30.89	18.98	0.71	27.91
PK	90.45M	22.50	43.50	-21.00	-14.54	3	Horizontal	-	-	-	37.04	12.64	0.89	28.07
PK	110.13M	22.07	43.50	-21.43	-11.98	3	Horizontal	-	-	-	34.05	15.10	1.02	28.10
PK	148.09M	24.56	43.50	-18.94	-8.63	3	Horizontal	-	-	-	33.19	18.31	1.21	28.15
PK	277.42M	22.27	46.00	-23.73	-8.53	3	Horizontal	-	-	-	30.80	17.85	1.80	28.18
PK	326.62M	23.62	46.00	-22.38	-6.98	3	Horizontal	-	-	-	30.60	19.13	2.02	28.13

Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	48.28M	23.03	40.00	-16.97	-8.31	3	Vertical	-	-	-	31.34	18.90	0.70	27.91
PK	90.45M	23.15	43.50	-20.35	-14.54	3	Vertical	-	-	-	37.69	12.64	0.89	28.07
PK	110.13M	24.41	43.50	-19.09	-11.98	3	Vertical	-	-	-	36.39	15.10	1.02	28.10
PK	148.09M	23.96	43.50	-19.54	-8.63	3	Vertical	-	-	-	32.59	18.31	1.21	28.15
PK	254.93M	20.96	46.00	-25.04	-9.50	3	Vertical	-	-	-	30.46	17.00	1.69	28.19
PK	328.03M	23.43	46.00	-22.57	-6.95	3	Vertical	-	-	-	30.38	19.16	2.02	28.13

Mode 2



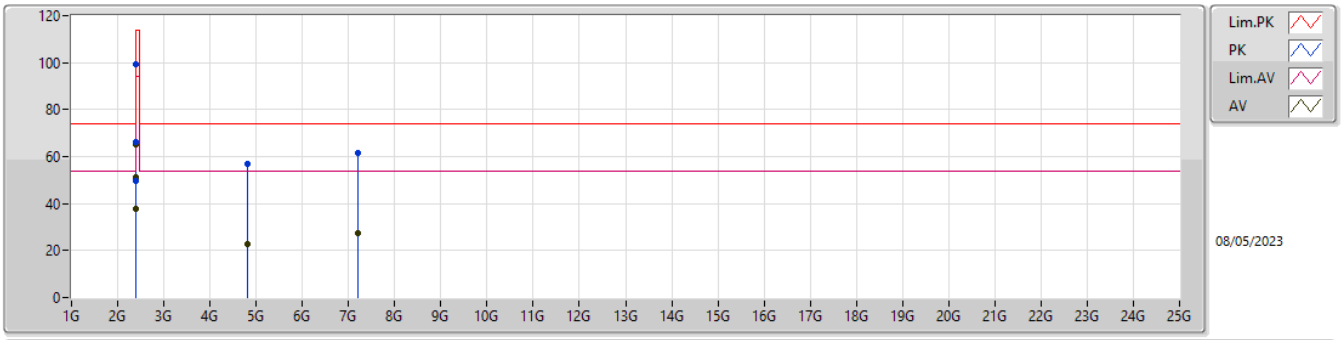
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	110.13M	24.50	43.50	-19.00	-11.98	3	Horizontal	-	-	-	36.48	15.10	1.02	28.10
PK	90.45M	21.15	43.50	-22.35	-14.54	3	Horizontal	-	-	-	35.69	12.64	0.89	28.07
PK	53.9M	21.67	40.00	-18.33	-8.41	3	Horizontal	-	-	-	30.08	18.80	0.72	27.93
PK	148.09M	24.28	43.50	-19.22	-8.63	3	Horizontal	-	-	-	32.91	18.31	1.21	28.15
PK	240.87M	21.57	46.00	-24.43	-9.84	3	Horizontal	-	-	-	31.41	16.72	1.63	28.19
PK	309.75M	22.60	46.00	-23.40	-7.52	3	Horizontal	-	-	-	30.12	18.69	1.95	28.16
								-						

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	-	-	-	-	-	-	-	-	-	-	-
SRD	Pass	AV	2.4G	51.97	54.00	-2.03	3	Horizontal	142	1.60	-

2.4-2.4835GHz_SRD

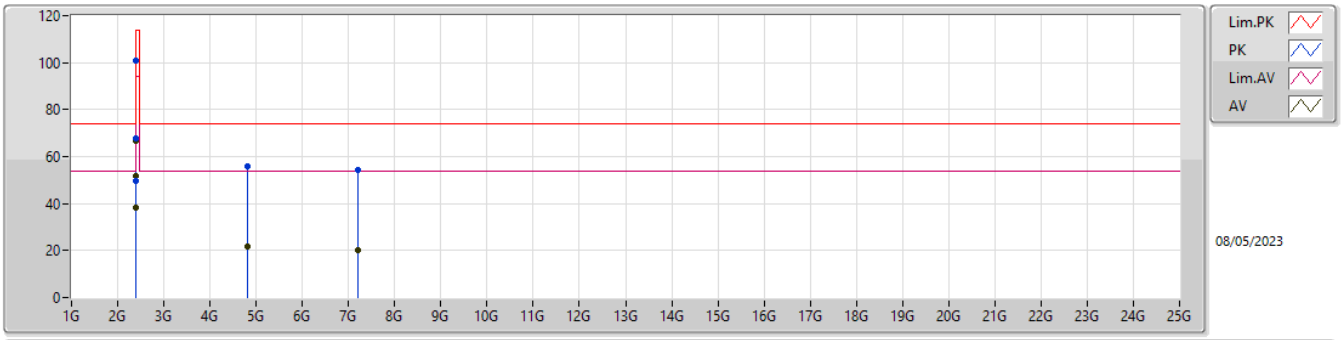
2402MHz_TX



Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	49.88	74.00	-24.12	53.67	3	Vertical	88	3.06	-	27.96	4.78	36.53
AV	2.39G	37.66	54.00	-16.34	41.45	3	Vertical	88	3.06	-	27.96	4.78	36.53
PK	2.4G	66.34	74.00	-7.66	70.20	3	Vertical	88	3.06	-	27.90	4.78	36.54
AV	2.4G	51.09	54.00	-2.91	54.95	3	Vertical	88	3.06	-	27.90	4.78	36.54
PK	2.402G	99.35	114.00	-14.65	103.21	3	Vertical	88	3.06	-	27.90	4.78	36.54
AV	2.402G	65.29	94.00	-28.71	-	3	Vertical	88	3.06	-	-	-	-
PK	4.804G	56.69	74.00	-17.31	58.35	3	Vertical	145	1.65	-	30.47	3.07	35.20
AV	4.804G	22.63	54.00	-31.37	-	3	Vertical	145	1.65	-	-	-	-
PK	7.206G	61.41	74.00	-12.59	55.49	3	Vertical	173	1.30	-	36.61	8.53	39.22
AV	7.206G	27.35	54.00	-26.65	-	3	Vertical	173	1.30	-	-	-	-

2.4-2.4835GHz_SRD

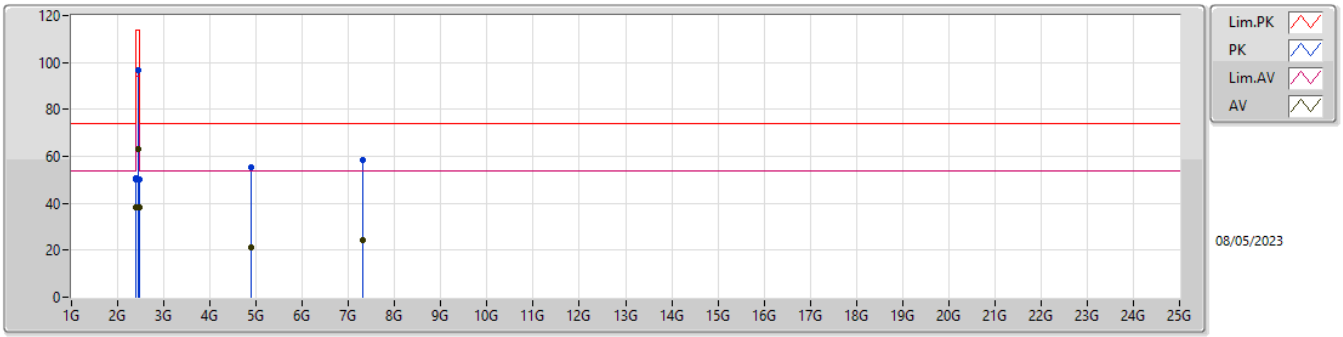
2402MHz_TX



Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	49.70	74.00	-24.30	53.49	3	Horizontal	142	1.60	-	27.96	4.78	36.53
AV	2.39G	38.07	54.00	-15.93	41.86	3	Horizontal	142	1.60	-	27.96	4.78	36.53
PK	2.4G	67.72	74.00	-6.28	71.58	3	Horizontal	142	1.60	-	27.90	4.78	36.54
AV	2.4G	51.97	54.00	-2.03	55.83	3	Horizontal	142	1.60	-	27.90	4.78	36.54
PK	2.402G	100.9	114.00	-13.1	104.76	3	Horizontal	142	1.60	-	27.90	4.78	36.54
AV	2.402G	66.84	94.00	-27.16	-	3	Horizontal	142	1.60	-	-	-	-
PK	4.804G	56.04	74.00	-17.96	57.70	3	Horizontal	210	1.42	-	30.47	3.07	35.20
AV	4.804G	21.98	54.00	-32.02	-	3	Horizontal	210	1.42	-	-	-	-
PK	7.206G	54.35	74.00	-19.65	48.43	3	Horizontal	184	1.00	-	36.61	8.53	39.22
AV	7.206G	20.29	54.00	-33.71	-	3	Horizontal	184	1.00	-	-	-	-

2.4-2.4835GHz_SRD

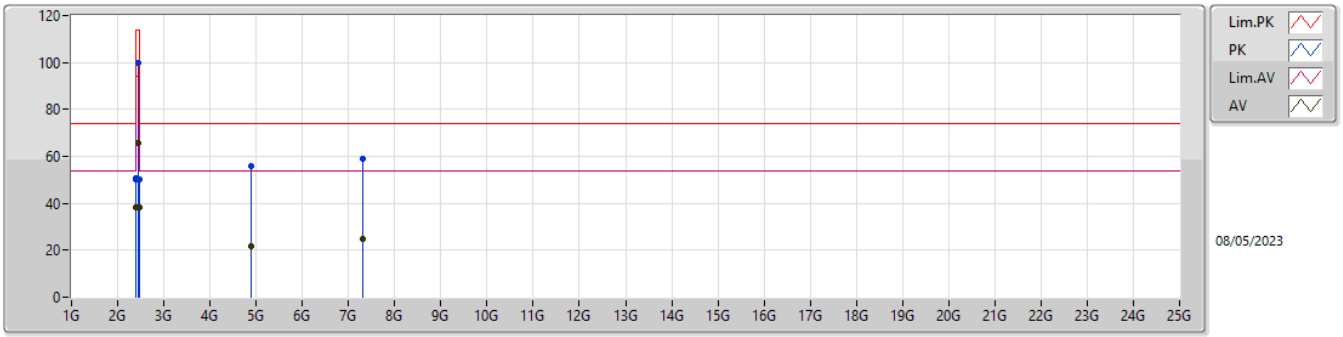
2440MHz_TX



Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	50.02	74.00	-23.98	53.81	3	Vertical	96	2.64	-	27.96	4.78	36.53
AV	2.39G	38.27	54.00	-15.73	42.06	3	Vertical	96	2.64	-	27.96	4.78	36.53
PK	2.4G	50.81	74.00	-23.19	54.67	3	Vertical	96	2.64	-	27.90	4.78	36.54
AV	2.4G	38.29	54.00	-15.71	42.15	3	Vertical	96	2.64	-	27.90	4.78	36.54
PK	2.44G	96.97	114.00	-17.03	100.94	3	Vertical	96	2.64	-	27.82	4.79	36.58
AV	2.44G	62.91	94.00	-31.09	-	3	Vertical	96	2.64	-	-	-	-
PK	2.4835G	50.27	74.00	-23.73	54.36	3	Vertical	96	2.64	-	27.73	4.80	36.62
AV	2.4835G	38.22	54.00	-15.78	42.31	3	Vertical	96	2.64	-	27.73	4.80	36.62
PK	4.88G	55.28	74.00	-18.72	55.18	3	Vertical	142	1.31	-	31.58	6.89	38.37
AV	4.88G	21.22	54.00	-32.78	-	3	Vertical	142	1.31	-	-	-	-
PK	7.32G	58.26	74.00	-15.74	52.35	3	Vertical	171	1.21	-	36.66	8.59	39.34
AV	7.32G	24.20	54.00	-29.8	-	3	Vertical	171	1.21	-	-	-	-

2.4-2.4835GHz_SRD

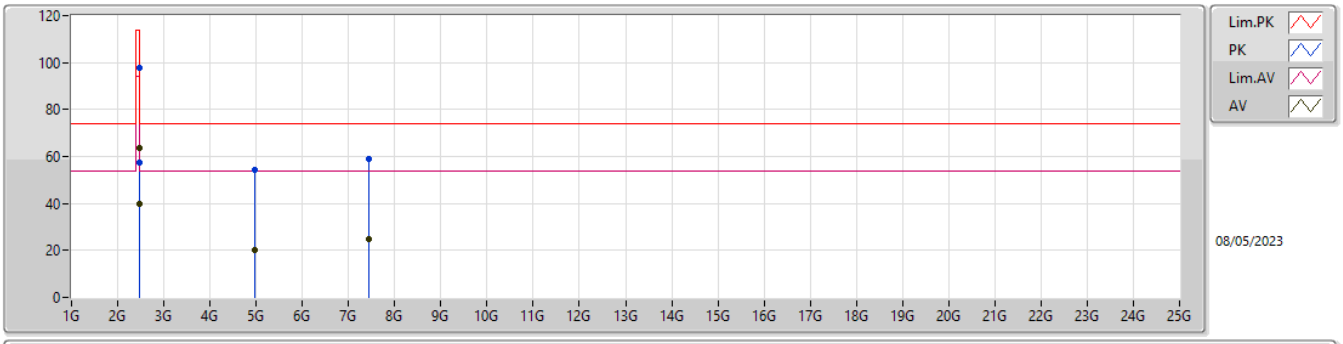
2440MHz_TX



Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	50.18	74.00	-23.82	53.97	3	Horizontal	142	1.56	-	27.96	4.78	36.53
AV	2.39G	38.44	54.00	-15.56	42.23	3	Horizontal	142	1.56	-	27.96	4.78	36.53
PK	2.4G	50.63	74.00	-23.37	54.49	3	Horizontal	142	1.56	-	27.90	4.78	36.54
AV	2.4G	38.34	54.00	-15.66	42.20	3	Horizontal	142	1.56	-	27.90	4.78	36.54
PK	2.44G	99.60	114.00	-14.40	103.57	3	Horizontal	142	1.56	-	27.82	4.79	36.58
AV	2.44G	65.54	94.00	-28.46	-	3	Horizontal	142	1.56	-	-	-	-
PK	2.4835G	50.33	74.00	-23.67	54.42	3	Horizontal	142	1.56	-	27.73	4.80	36.62
AV	2.4835G	38.41	54.00	-15.59	42.50	3	Horizontal	142	1.56	-	27.73	4.80	36.62
PK	4.88G	55.79	74.00	-18.21	55.69	3	Horizontal	211	2.23	-	31.58	6.89	38.37
AV	4.88G	21.73	54.00	-32.27	-	3	Horizontal	211	2.23	-	-	-	-
PK	7.32G	59.11	74.00	-14.89	53.20	3	Horizontal	184	1.43	-	36.66	8.59	39.34
AV	7.32G	25.05	54.00	-28.95	-	3	Horizontal	184	1.43	-	-	-	-

2.4-2.4835GHz_SRD

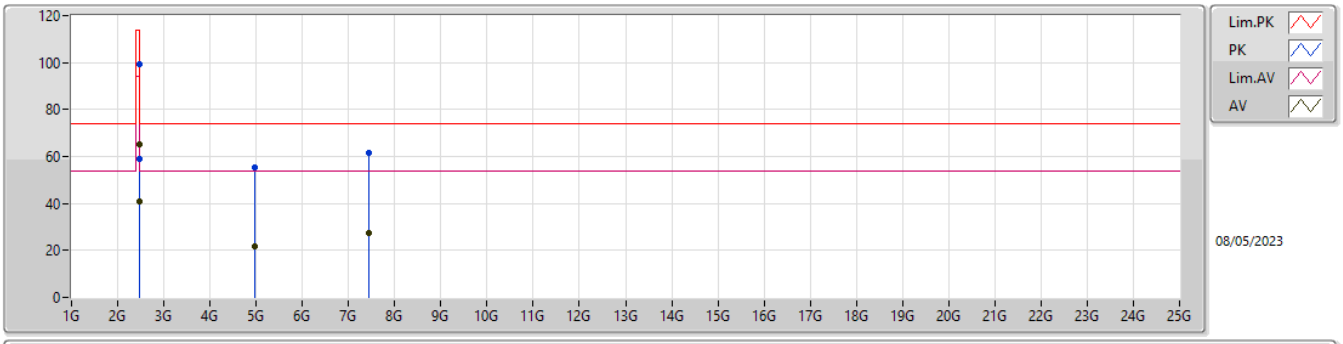
2480MHz_TX



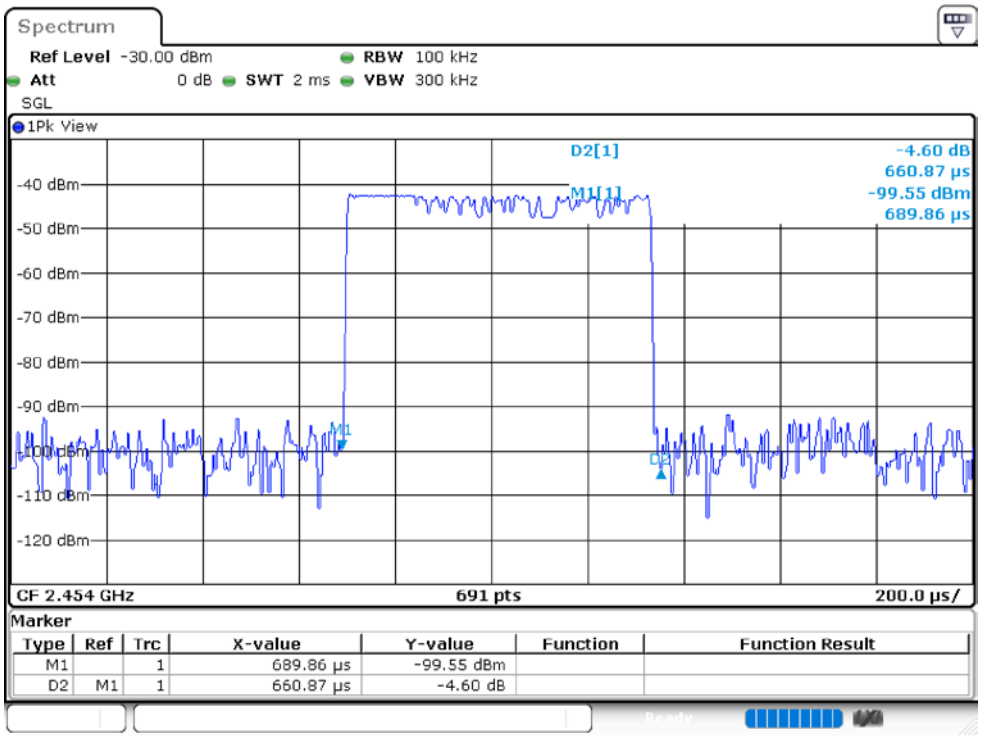
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.48G	97.63	114.00	-16.37	101.71	3	Vertical	121	2.97	-	27.74	4.80	36.62
AV	2.48G	63.57	94.00	-30.43	-	3	Vertical	121	2.97	-	-	-	-
PK	2.4835G	57.22	74.00	-16.78	61.31	3	Vertical	121	2.97	-	27.73	4.80	36.62
AV	2.4835G	39.86	54.00	-14.14	43.95	3	Vertical	121	2.97	-	27.73	4.80	36.62
PK	4.96G	54.16	74.00	-19.84	53.98	3	Vertical	132	1.00	-	31.64	6.96	38.42
AV	4.96G	20.10	54.00	-33.9	-	3	Vertical	132	1.00	-	-	-	-
PK	7.44G	59.02	74.00	-14.98	53.06	3	Vertical	183	1.03	-	36.78	8.64	39.46
AV	7.44G	24.96	54.00	-29.04	-	3	Vertical	183	1.03	-	-	-	-

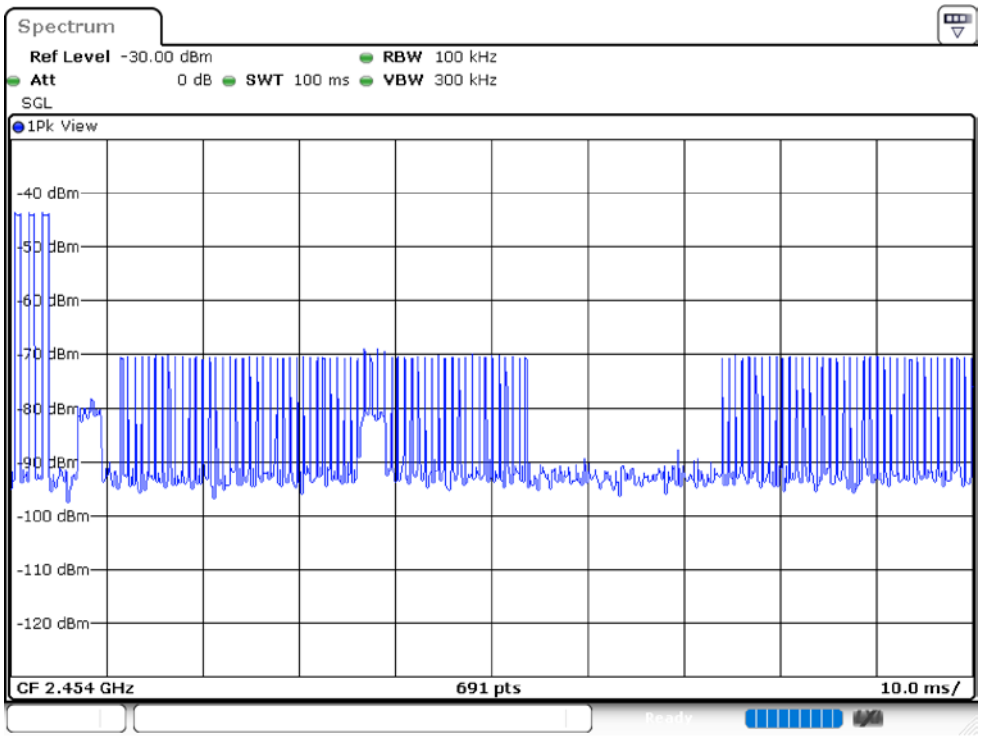
2.4-2.4835GHz_SRD

2480MHz_TX



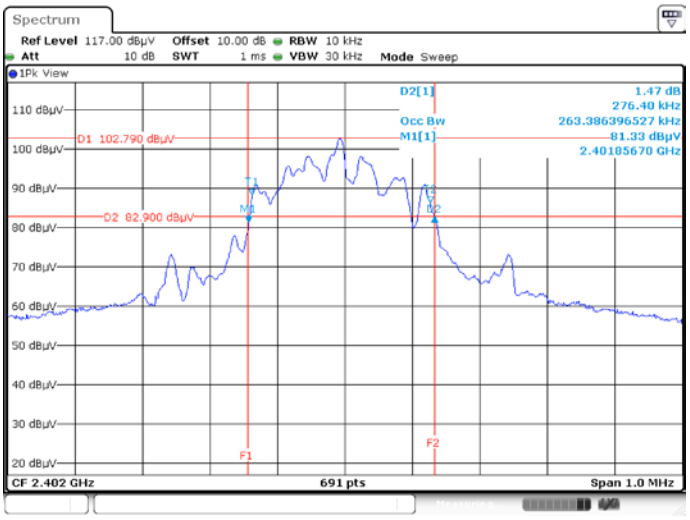
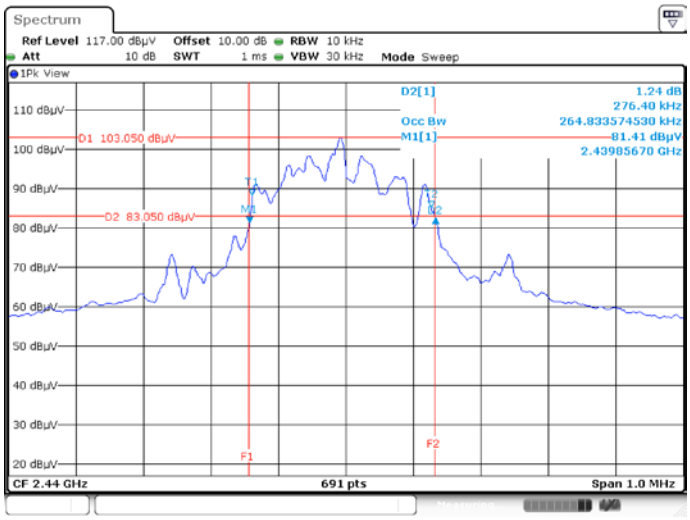
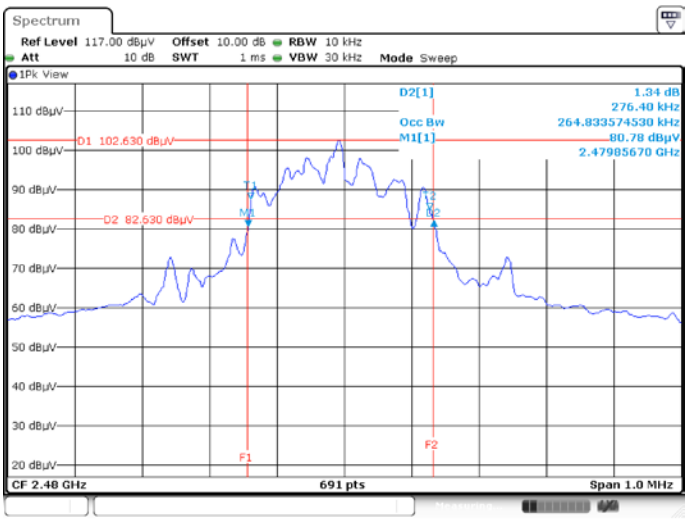
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.48G	99.49	114.00	-14.51	103.57	3	Horizontal	144	1.48	-	27.74	4.80	36.62
AV	2.48G	65.43	94.00	-28.57	-	3	Horizontal	144	1.48	-	-	-	-
PK	2.4835G	58.75	74.00	-15.25	62.84	3	Horizontal	144	1.48	-	27.73	4.80	36.62
AV	2.4835G	40.97	54.00	-13.03	45.06	3	Horizontal	144	1.48	-	27.73	4.80	36.62
PK	4.96G	55.56	74.00	-18.44	55.38	3	Horizontal	211	2.41	-	31.64	6.96	38.42
AV	4.96G	21.50	54.00	-32.5	-	3	Horizontal	211	2.41	-	-	-	-
PK	7.44G	61.57	74.00	-12.43	55.61	3	Horizontal	182	1.28	-	36.78	8.64	39.46
AV	7.44G	27.51	54.00	-26.49	-	3	Horizontal	182	1.28	-	-	-	-





$$20\log(\text{Duty cycle}) = 20\log\frac{0.66087\text{x}3\text{ ms}}{100\text{ ms}} = -34.06\text{dB}$$

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
2402	0.276	0.263
2440	0.276	0.265
2480	0.276	0.265

2402 MHz	2440 MHz
	
2480 MHz	--
	--