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Bluetooth Low Energy Template: Release November 19th, 2021

TEST REPORT

N°: 21903474-799667-A

Version : 02

Subject

Radio spectrum matters
tests according to standards:
47 CFR Part 15.247 & RSS-247 Issue 3 & RSS-Gen Issue 5

Issued to

DUNASYS Ingénierie
10 Rue de Penthievre
75008 - Paris
FRANCE

Apparatus under test

Product DCar-S
Trade mark DUNASYS
Manufacturer DUNASYS Ingénierie
Model under test DCar-S
Serial number VU105585300810 (Radiated) & VU948100380110 (Conducted)
FCC ID 2BKU6-DCARS
IC 33018-DCARS

Conclusion

See Test Program chapter

Test date

April 25, 2024 to April 30, 2024

Test location

Fontenay Aux Roses & Ecuelles

Test Site

6230B-1

Sample receipt date

April 22, 2024

Registration Number

197516

Designation Number

FR0010

Composition of document

57 pages

Document issued on

September 13, 2024

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PUBLICATION HISTORY

Version	Date	Author	Modification
01	July 9, 2024	Julien Palard	Creation of the document
02	September 13, 2024	Julien Palard	Update for modification of RSS 247 Issue and FCC ID & IC number Add "Test distance extrapolation– FCC/ISED" page 9.

Each new edition of this test report replaces and cancels the previous edition. The control of the old editions of report is under responsibility of client.



SUMMARY

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1. TEST PROGRAM

References

- 47 CFR Part 15.247
- RSS 247 Issue 3
- RSS Gen Issue 5
- KDB 558074 D01 DTS Meas Guidance v05r02
- ANSI C63.10-2013

Radio requirement:

Clause (47CFR Part 15.247 & RSS-247 Issue 3 & RSS-Gen Issue 5) Test Description	Test result - Comments
Occupied Bandwidth	☒ PASS ☐ FAIL ☐ NA ☐ NP(1)
6dB Bandwidth	☒ PASS ☐ FAIL ☐ NA() ☐ NP(1)
Duty Cycle	☒ PASS ☐ FAIL ☐ NA ☐ NP(1)
Maximum Conducted Output Power	☒ PASS ☐ FAIL ☐ NA ☐ NP(1)
Power Spectral Density	☒ PASS ☐ FAIL ☐ NA ☐ NP(1)
Conducted Spurious Emission at the Band Edge	☒ PASS ☐ FAIL ☐ NA() ☐ NP(1)
Unwanted Emissions into Non-Restricted Frequency Bands	☒ PASS ☐ FAIL ☐ NA() ☐ NP(1)
AC Power Line Conducted Emission	☐ PASS ☐ FAIL ☒ NA(2) ☐ NP(1)
Unwanted Emissions into Restricted Frequency Bands	☒ PASS ☐ FAIL ☐ NA ☐ NP(1)
Receiver Radiated emissions	☒ PASS ☐ FAIL ☒ NA ☐ NP(1)
This table is a summary of test report, see conclusion of each clause of this test report for detail.	

(1): Limited program

(2): EUT not directly or indirectly connected to the AC Power Public Network

PASS: EUT complies with standard's requirement

FAIL: EUT does not comply with standard's requirement

NA: Not Applicable

NP: Test Not Performed

2. EQUIPMENT UNDER TEST: CONFIGURATION (DECLARED BY PROVIDER)

2.1. HARDWARE IDENTIFICATION (EUT AND AUXILIARIES):

Equipment under test (EUT):

DUNASYS DCar-S

Serial Number: VU105585300810 (Radiated) & VU948100380110 (Conducted)



Radiated board



Conducted board

Equipment Under Test

Power supply:

Name	Type	Rating	Reference / Sn	Comments
Supply1	☐ AC ☒ DC ☐ Battery	12Vdc 0.15A	-	-

Inputs/outputs - Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
1	Main power supply cable	-	☒	☐	☐	-
2	Communication cable	-	☒	☐	☐	-
3	Communication cable	-	☒	☐	☐	-
4	USB cable	-	☒	☐	☐	-



Auxiliary equipment used during test:

Type	Reference	Sn	Comments
Laptop	DELL Inspiron 15 3511		Use to set the EUT (provided by Dunasys)

Equipment information:

Equipment Information:

Bluetooth LE Type:	☒ BLE	☐ v4.0	☐ v4.1	☒ v4.2	☒ v5.0
Chipset :	NORDIC nRF52840				
Frequency band:	[2400 – 2483.5] MHz				
Number of Channel:	40				
Spacing channel:	2MHz				
Channel bandwidth:	1MHz & 2MHz				
Antenna Type:	☒ Integral		☐ External		☐ Dedicated
Antenna connector:	☐ Yes		☐ No		☒ Temporary for test
Antenna Requirements §15.203	The transmitter uses an integral antenna and it permanently connected				
Transmit chains:	1				
	Single antenna				
Receiver chains	1				
Type of equipment:	☒ Stand-alone		☐ Plug-in		☐ Combined
Equipment arrangement:	☐ Tabletop		☐ Floor-standing		☒ Multiple orientations
Ad-Hoc mode:	☐ Yes			☒ No	
Duty cycle:	☒ Continuous duty		☐ Intermittent duty		☐ 100% duty
Equipment type:	☒ Production model			☐ Pre-production model	
Operating temperature range:	Tnom:		20°C		
Type of power source:	☐ AC power supply		☒ DC power supply		☐ Battery
Operating voltage range:	Vnom:		☐ 120V/60Hz		☒ 8-28 VDC
			☐ 240V/50Hz		☐ X VDC

Antenna Characteristic

Antenna assembly	Gain (dBi)	Frequency Band (MHz)	Impedance(Ω)
1	1.8 dBi	2400-2483.5	50

Hardware information

Hardware (if applicable):	V. :	V1.1.0
Software (if applicable):	V. :	-



CHANNEL PLAN			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
Cmin: 0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
Cmid: 19	2440	Cmax: 39	2480

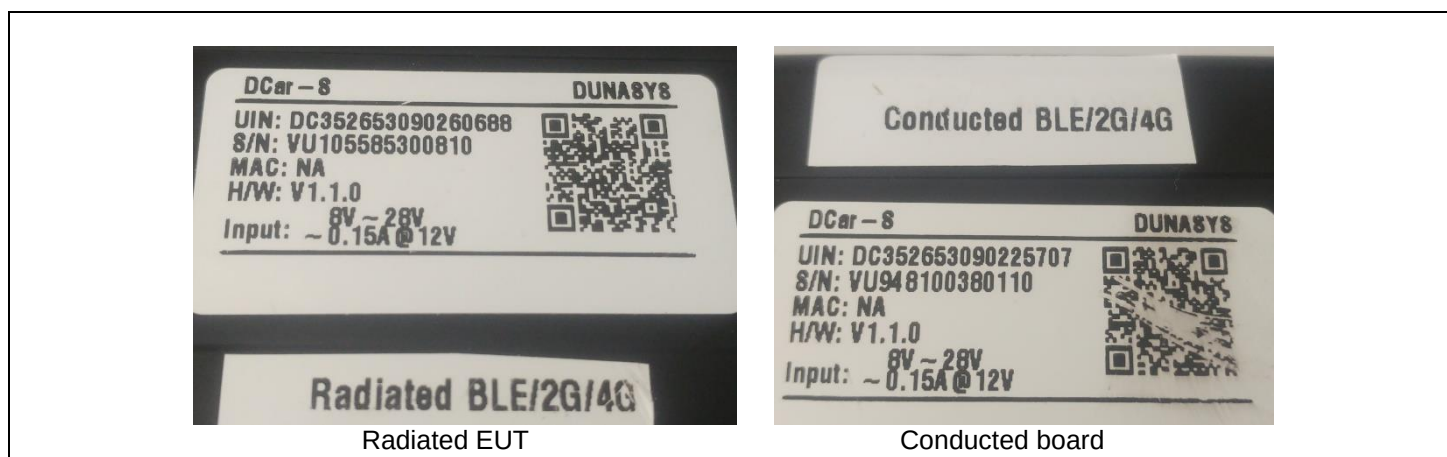
DATA RATE		
Data Rate (Mbps)	Modulation Type	Worst Case Modulation
1	GFSK	☒
2	GFSK	☒

2.2. RUNNING MODE

Test mode	Description of test mode
Test mode 1	Permanent emission with modulation on a fixed channel in the data rate that produced the highest power. Software power target has been set at 2 (6dBm)
Test mode 2	Permanent reception
Test	Running mode
Occupied Bandwidth	☒ Test mode 1 (1) ☐ Alternative test mode()
6dB Bandwidth	☒ Test mode 1 (1) ☐ Alternative test mode()
Duty Cycle	☒ Test mode 1 (1) ☐ Alternative test mode()
Maximum Conducted Output Power	☒ Test mode 1 (1) ☐ Alternative test mode()
Power Spectral Density	☒ Test mode 1 (1) ☐ Alternative test mode()
Conducted Spurious Emission at the Band Edge	☒ Test mode 1 (1) ☐ Alternative test mode()
Unwanted Emissions into Non-Restricted Frequency Bands	☒ Test mode 1 (1) ☐ Alternative test mode()
AC Power Line Conducted Emission	☒ Test mode 1 (1) ☐ Alternative test mode()
Unwanted Emissions into Restricted Frequency Bands	☒ Test mode 1 (1) ☐ Alternative test mode()

(1) Specific test software "BUSMASTER V3.2.2" has been used to set the product. Software power target has been set at 2 (6dBm)

2.3. EQUIPMENT LABELLING



2.4. EQUIPMENT MODIFICATION

☒ None ☐ Modification:

2.5. FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follow:

$$FS = RA + AF + CF - AG$$

Where
 FS = Field Strength
 RA = Receiver Amplitude
 AF = Antenna Factor
 CF = Cable Factor
 AG = Amplifier Gain

Assume a receiver reading of 52.5dB μ V is obtained. The antenna factor of 7.4 and a cable factor of 1.1 are added. The amplifier gain of 29dB is subtracted, giving a field strength of 32 dB μ V/m.

$$FS = 52.5 + 7.4 + 1.1 - 29 = 32 \text{ dB}\mu\text{V/m}$$

The 32 dB μ V/m value can be mathematically converted to its corresponding level in μ V/m.

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32\text{dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}.$$

2.6. TEST DISTANCE EXTRAPOLATION – FCC/ISED

The field strength is extrapolated to the new measurement distance using formula from FCC Part15.31 (f) and §6.5-6.6 RSS-GEN:

Below 30MHz,

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

Above 30MHz,

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

Where:

FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m

FS_{max} is the measured field strength, expressed in dB μ V/m

d_{measure} is the distance of the measurement point from the EUT

d_{limit} is the reference limit distance

2.7. CALIBRATION DATE

The calibration intervals are extended at 12+2 months. This extended interval is based on the fact that there is sufficient calibration data to statistically establish a trend or based on experience of use of the test equipment to assure good measurement results for a longer period.

3. OCCUPIED BANDWIDTH

3.1. TEST CONDITIONS

Test performed by : Julien Palard
Date of test : April 26, 2024
Ambient temperature : 24 °C
Relative humidity : 38 %

3.2. TEST SETUP

- The Equipment under Test is installed:

- ☒ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

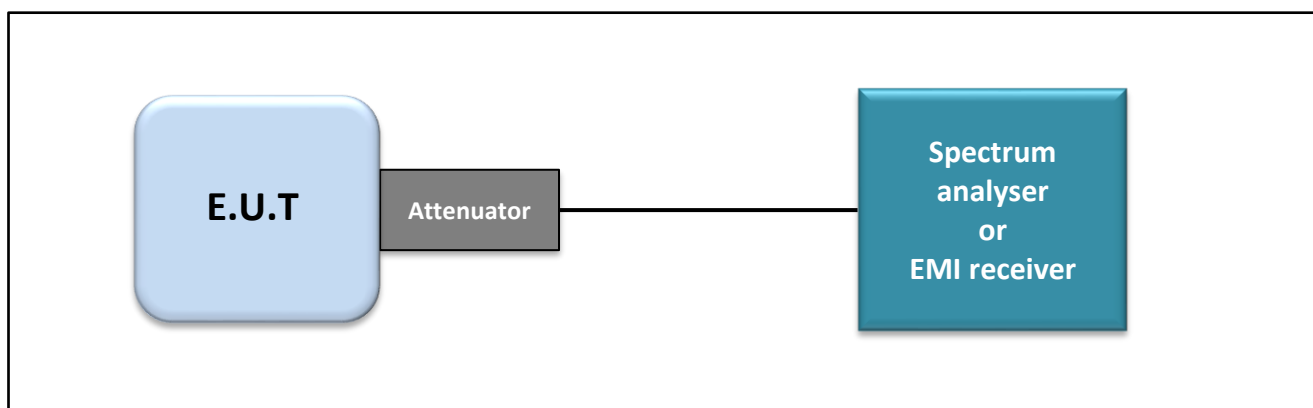
- ☒ Conducted Method
☐ Radiated Method

- Test Procedure:

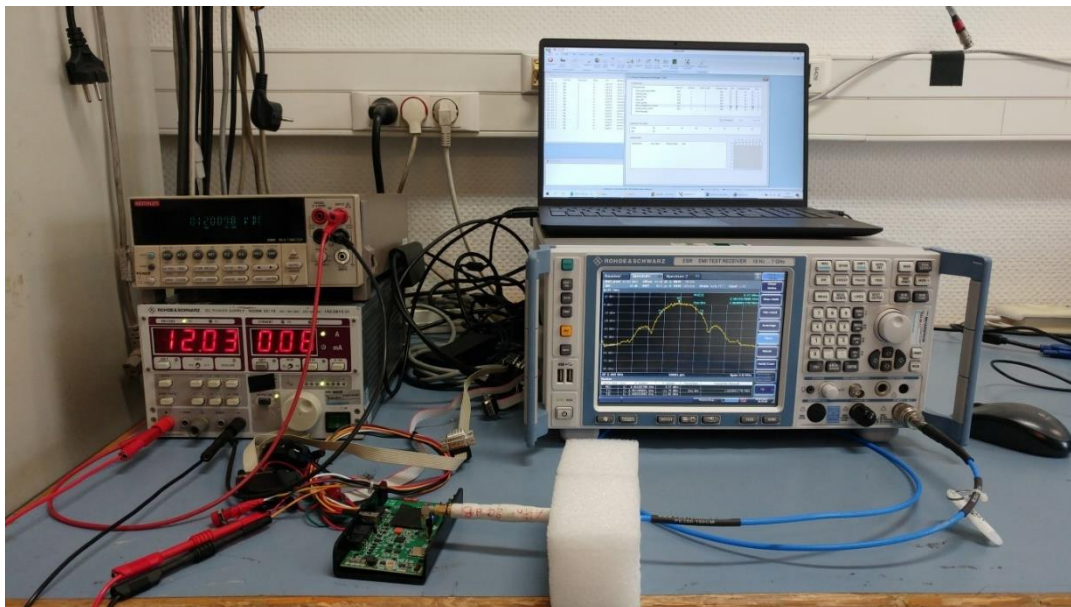
- ☐ RSS-Gen Issue 5 § 6.7
☒ ANSI C63.10 § 6.9.2

Measurement Procedure:

- RBW shall be in the range of 1% to 5% of the anticipated occupied bandwidth
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- SPAN = Capture all products of the modulation process
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- OBW 99% function of spectrum analyzer used



Test set up of Occupied Bandwidth



Photograph for Occupied bandwidth

3.3. LIMIT

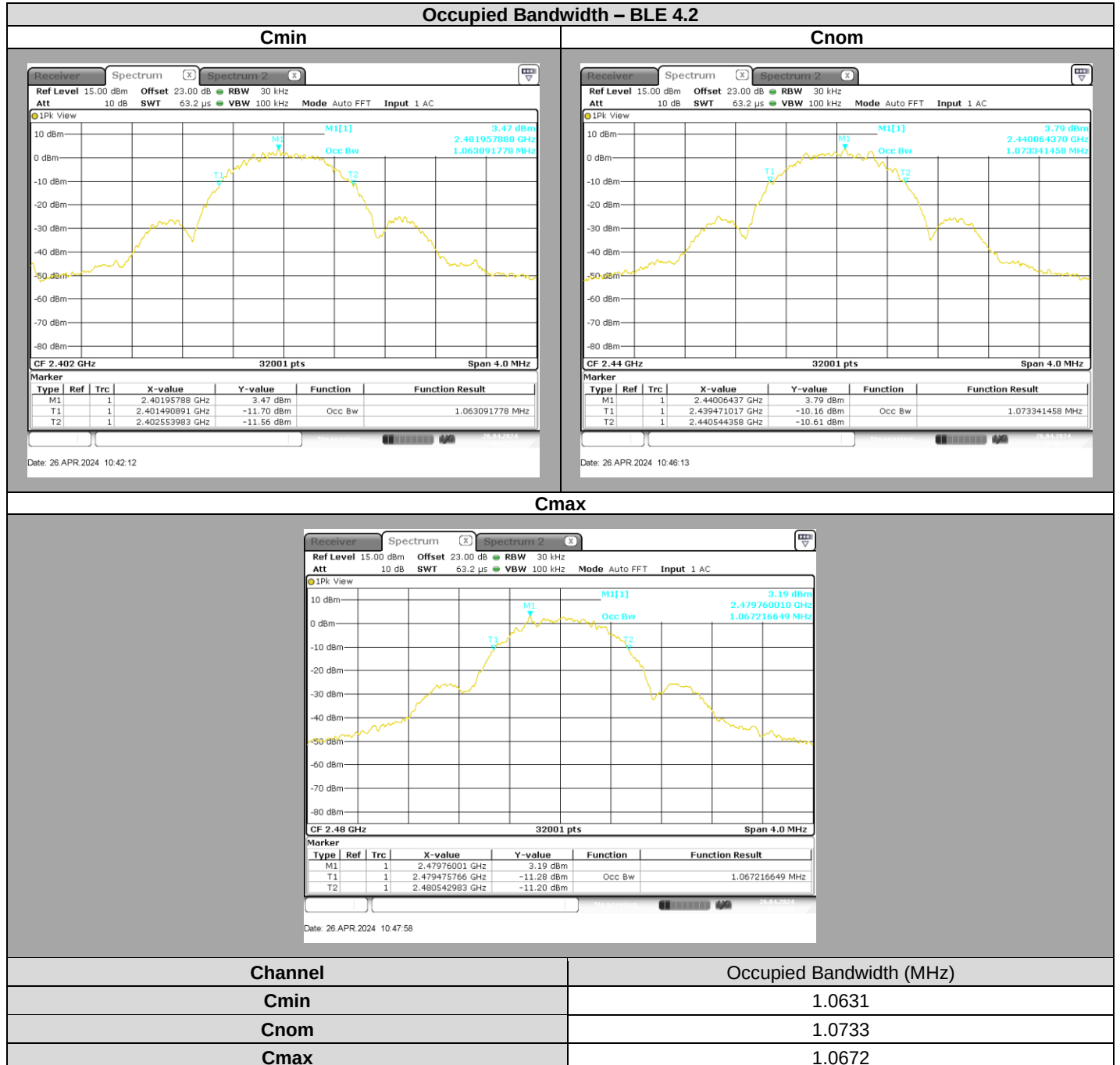
None

3.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
Thermo-Hygrometer	OREGON	-	B4204075	2022/03	2024/03
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2024/04	2026/04
Cable SONDE 027 + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329971	2024/04	2025/04
R&S Commander Software	ROHDE & SCHWARZ	Version 1.6.4	-	-	-
Power supply	ROHDE & SCHWARZ	NGSM 32/10	A7040074	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1241084	2023/05	2025/05

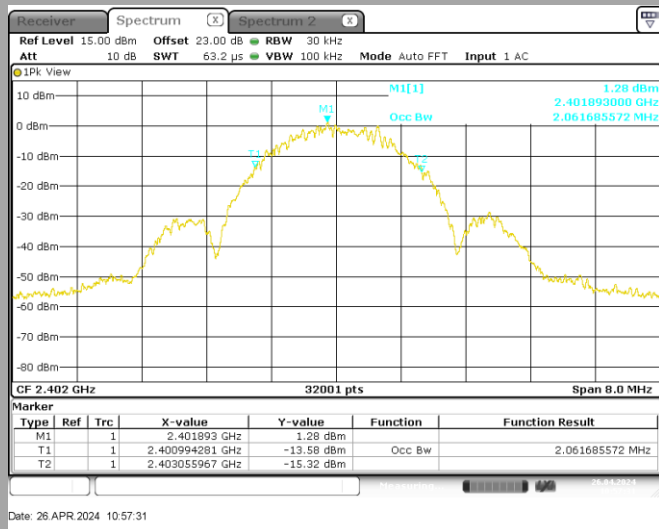
Note: In our quality system, the test equipment calibration due is more & less 2 months

3.5. RESULTS

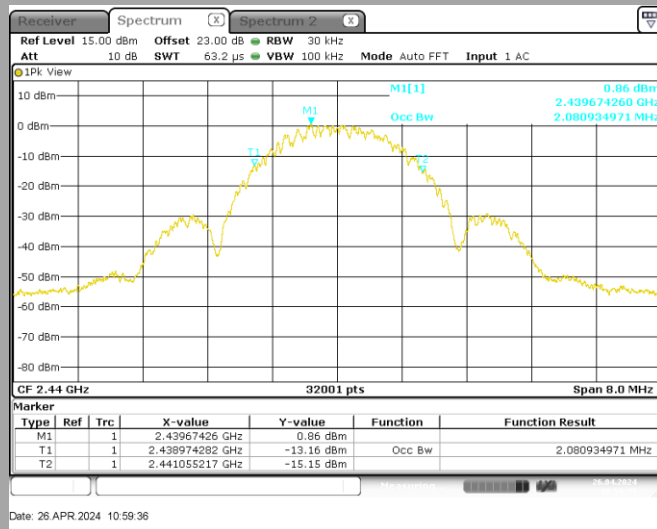


Occupied Bandwidth – BLE 5.0

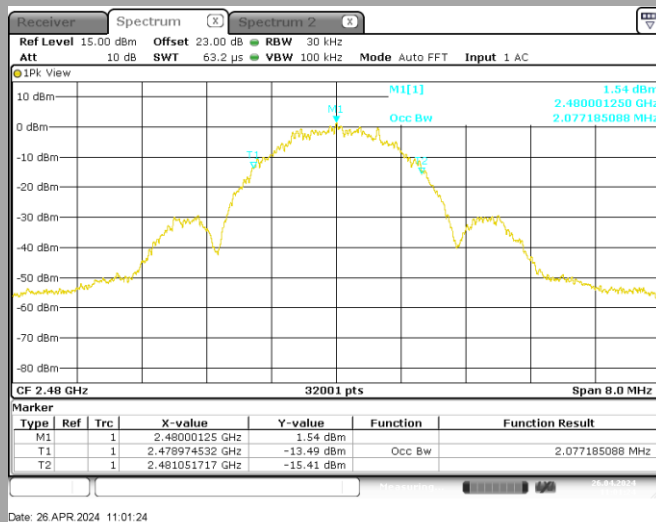
Cmin



Cnom



Cmax



Channel

Occupied Bandwidth (MHz)

Cmin

2.0617

Cnom

2.0809

Cmax

2.0772

3.6. CONCLUSION

Occupied Channel Bandwidth measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated) & VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS-GEN ISSUE 5** limits.

4. 6dB EMISSION BANDWIDTH

4.1. TEST CONDITIONS

Test performed by : Julien Palard
Date of test : April 26, 2024
Ambient temperature : 24 °C
Relative humidity : 38 %

4.2. TEST SETUP

- The Equipment under Test is installed:

- ☒ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

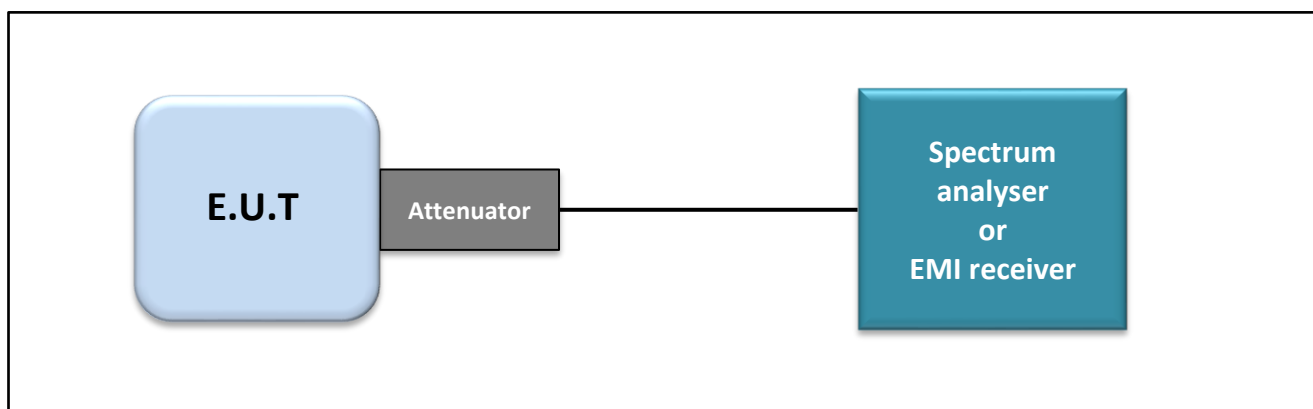
- ☒ Conducted Method
☐ Radiated Method

- Test Procedure:

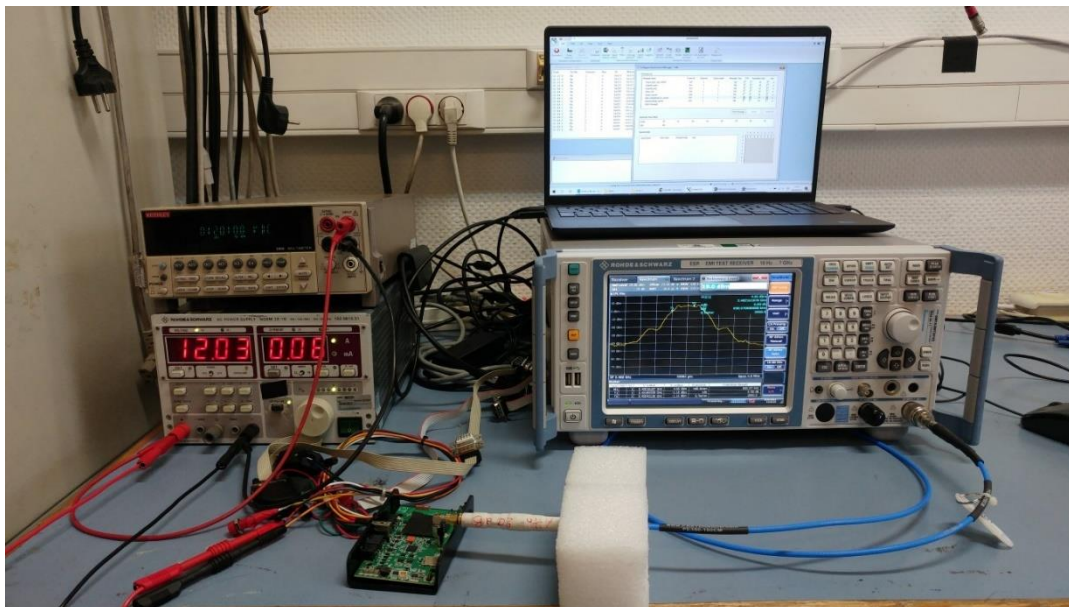
- ☒ ANSI C63.10 § 11.8.1
☐ ANSI C63.10 § 11.8.2

Measurement Procedure:

1. Set resolution bandwidth (RBW) = 100kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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 6 dB relative to the maximum level measured in the fundamental emission. Compare the resultant bandwidth with the RBW setting of the analyzer.



Test set up of 6dB Emission Bandwidth



Photograph for 6dB emission bandwidth

4.3. LIMIT

Frequency range	The 6dB bandwidth Limit
2400MHz to 2483.5MHz	$\geq 500\text{kHz}$

4.4. TEST EQUIPMENT LIST

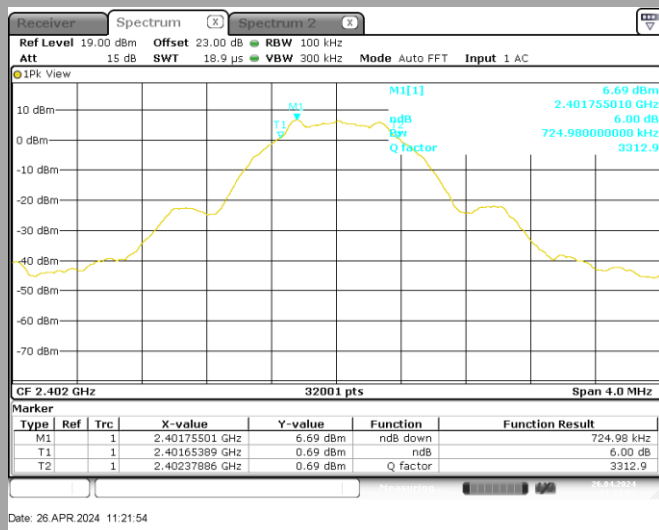
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
Thermo-Hygrometer	OREGON	-	B4204075	2022/03	2024/03
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2024/04	2026/04
Cable SONDE 027 + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329971	2024/04	2025/04
R&S Commander Software	ROHDE & SCHWARZ	Version 1.6.4	-	-	-
Power supply	ROHDE & SCHWARZ	NGSM 32/10	A7040074	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1241084	2023/05	2025/05

Note: In our quality system, the test equipment calibration due is more & less 2 months

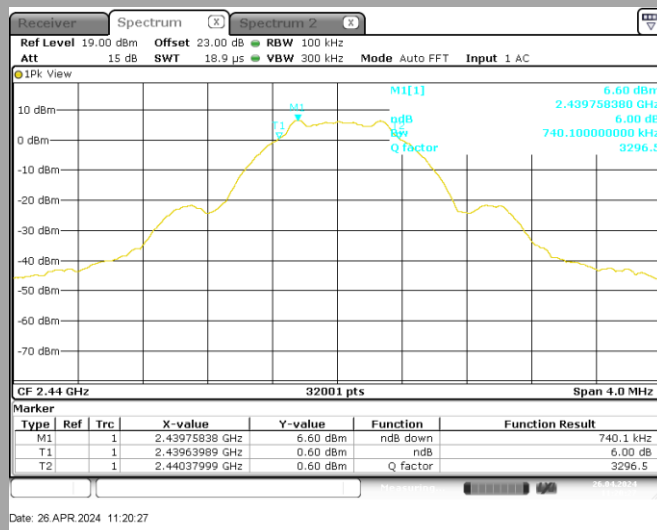
4.5. RESULTS

6dB Emission Bandwidth – BLE 4.2

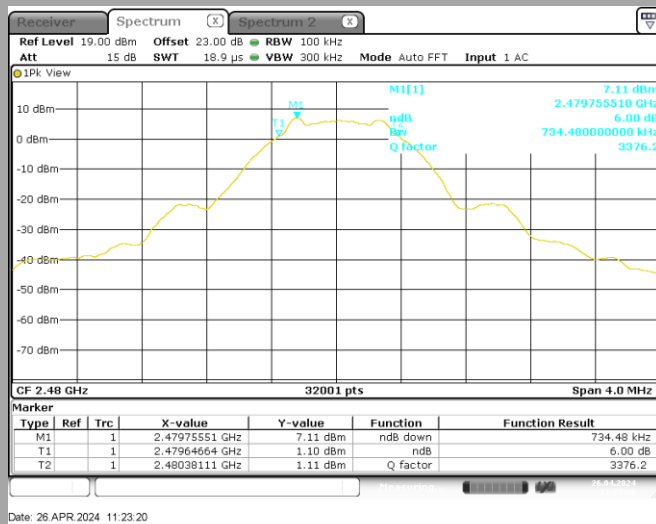
Cmin



Cnom



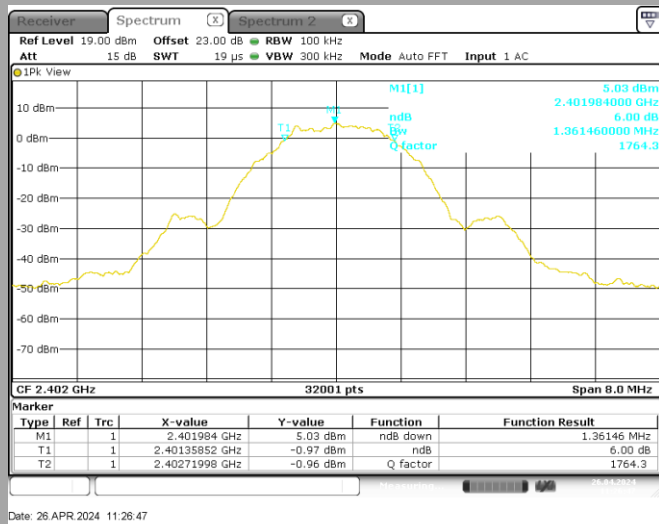
Cmax



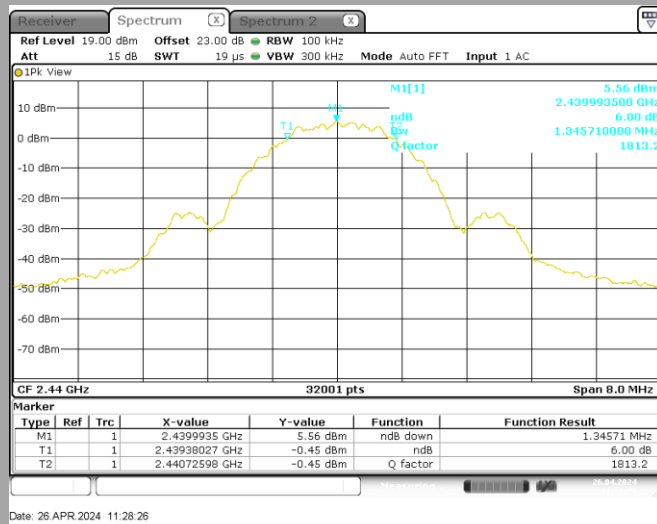
Channel	6dB Emission Bandwidth (MHz)	Limit (MHz)
Cmin	0.725	Minimum 0.5
Cnom	0.740	Minimum 0.5
Cmax	0.735	Minimum 0.5

6dB Emission Bandwidth – BLE 5.0

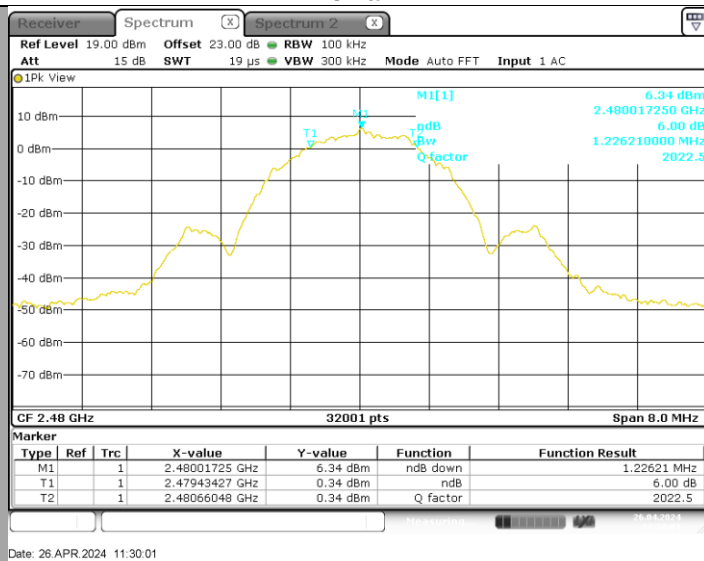
Cmin



Cnom



Cmax



Channel	6dB Emission Bandwidth (MHz)	Limit (MHz)
Cmin	1.3615	Minimum 0.5
Cnom	1.3457	Minimum 0.5
Cmax	1.2262	Minimum 0.5

4.6. CONCLUSION

6dB Emission Bandwidth measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated) & VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels compliant to the 47 CFR PART 15.247 & RSS 247 ISSUE 3 limits.

5. DUTY CYCLE

5.1. TEST CONDITIONS

Test performed by : Julien Palard
Date of test : April 26, 2024
Ambient temperature : 24 °C
Relative humidity : 38 %

5.2. TEST SETUP

- The Equipment under Test is installed:

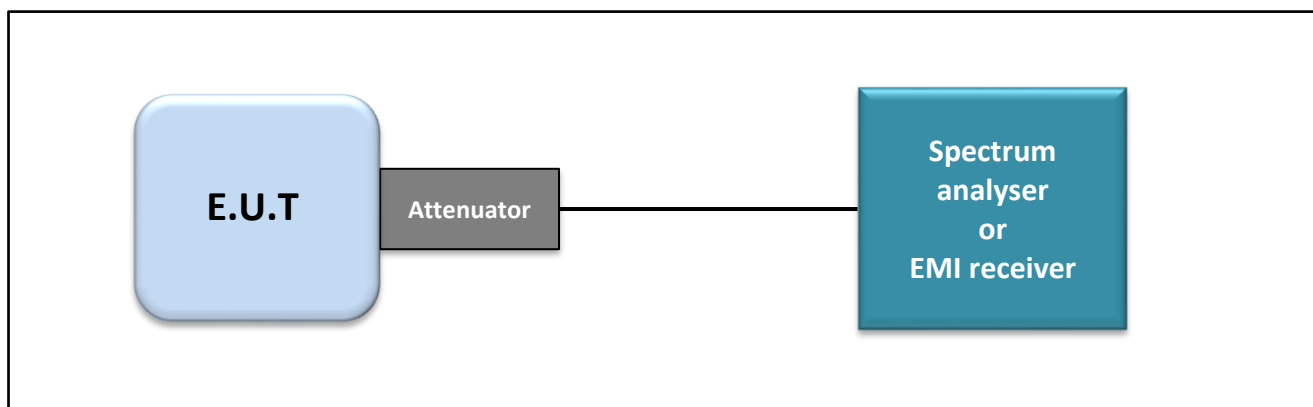
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

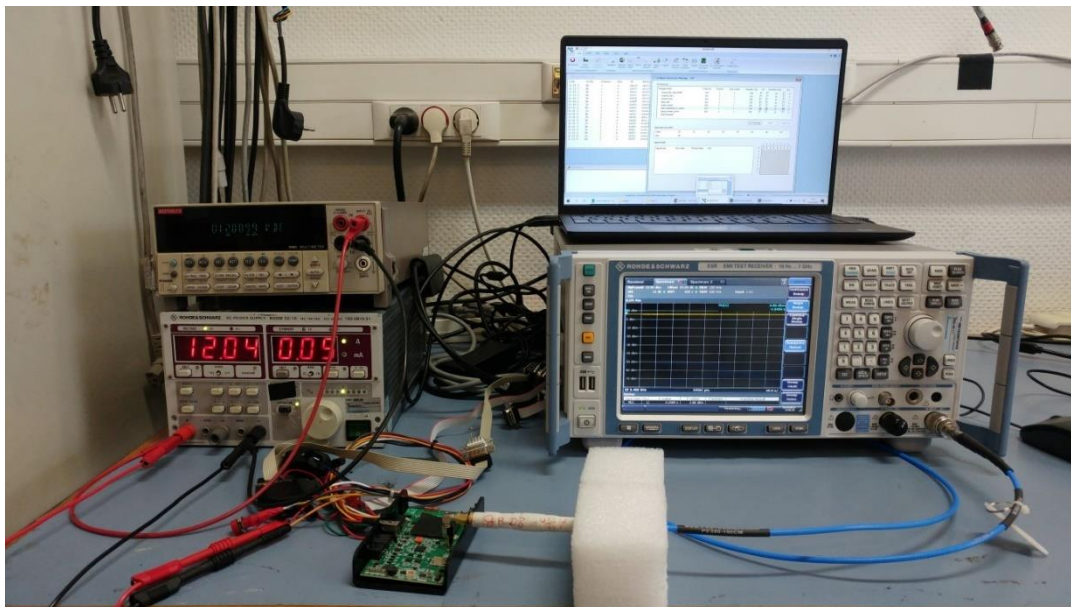
- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ ANSI C63.10 § 11.6



Test set up of Duty Cycle



Photograph for Duty Cycle

5.3. LIMIT

None

5.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
Thermo-Hygrometer	OREGON	-	B4204075	2022/03	2024/03
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2024/04	2026/04
Cable SONDE 027 + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329971	2024/04	2025/04
R&S Commander Software	ROHDE & SCHWARZ	Version 1.6.4	-	-	-
Power supply	ROHDE & SCHWARZ	NGSM 32/10	A7040074	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1241084	2023/05	2025/05

Note: In our quality system, the test equipment calibration due is more & less 2 months

5.5. RESULTS





5.6. CONCLUSION

Duty Cycle measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated)** & **VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS 247 ISSUE 3** limits.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1. TEST CONDITIONS

Test performed by : Julien Palard
Date of test : April 26, 2024
Ambient temperature : 24 °C
Relative humidity : 38 %

6.2. TEST SETUP

- The Equipment under Test is installed:

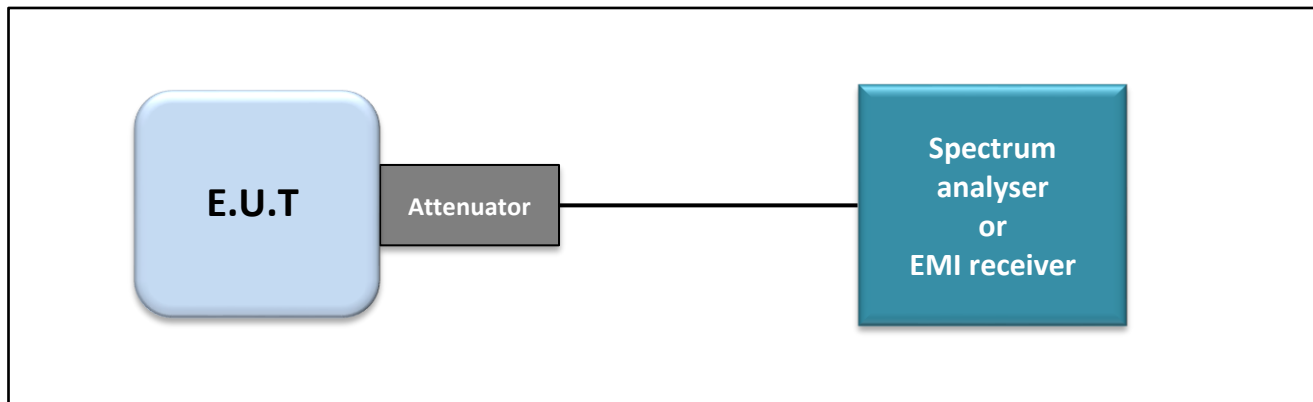
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

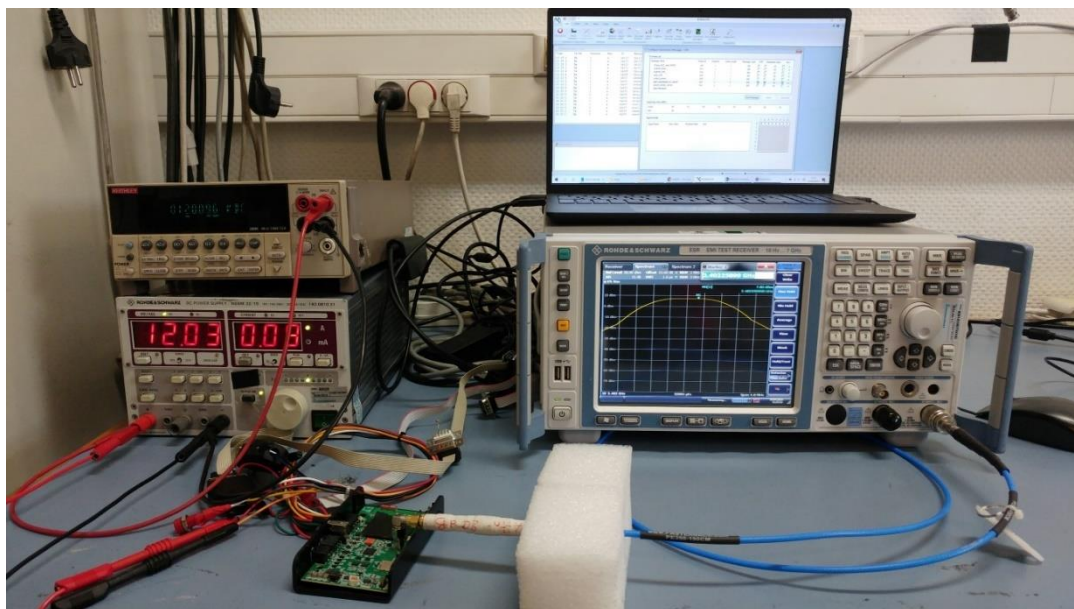
- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ ANSI C63.10 § 11.9.1.1
- ☐ ANSI C63.10 § 11.9.1.2
- ☐ ANSI C63.10 § 11.9.2.2.2 (Method AVGSA-1)
- ☐ ANSI C63.10 § 11.9.2.2.4 (Method AVGSA-2)



Test set up of Maximum Conducted Output Power



Photograph for Maximum Conducted Output Power

6.3. LIMIT

Frequency range	Maximum Conducted Output Power
2400MHz to 2483.5MHz	≤30dBm*

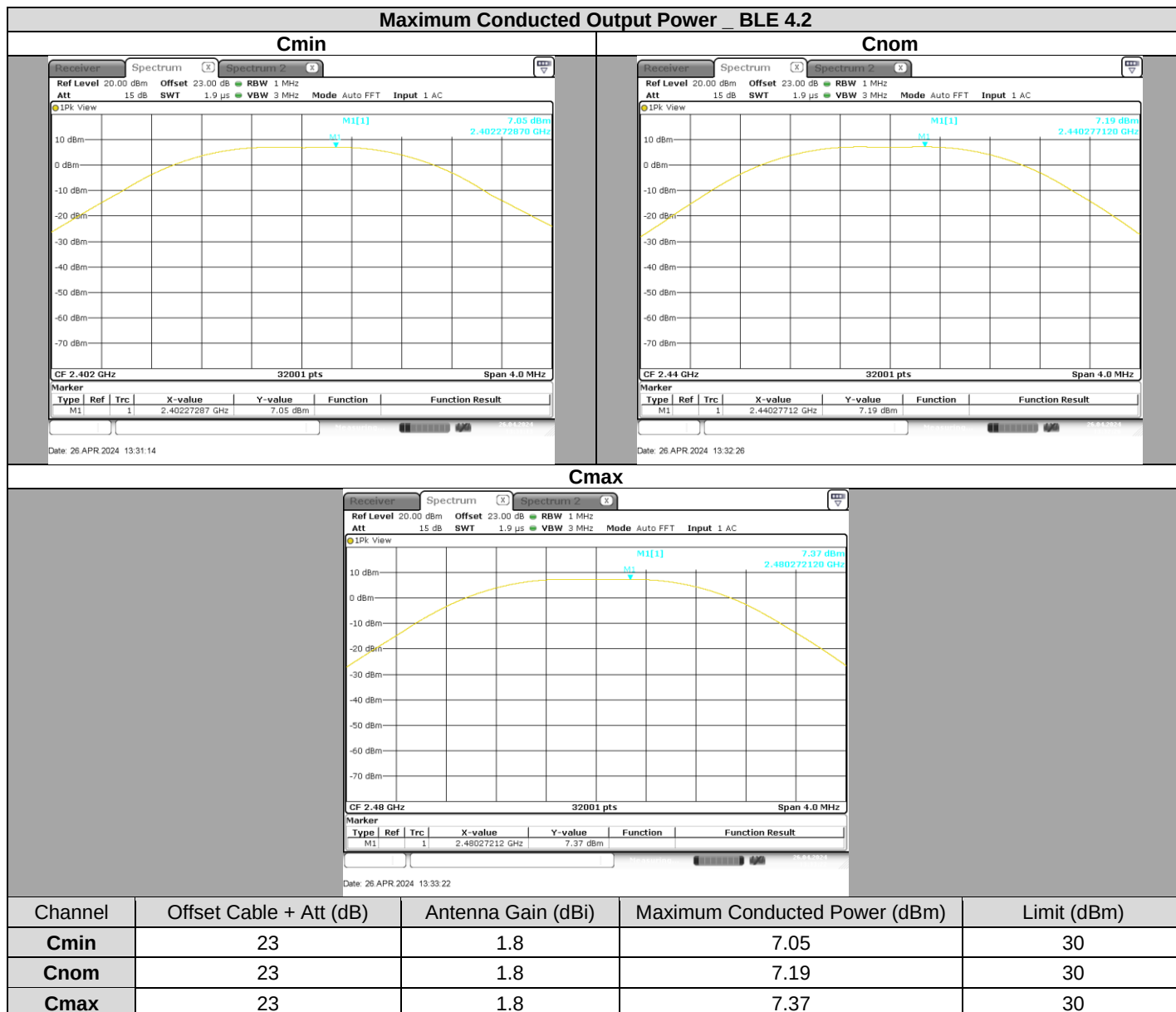
*Remark: Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

6.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal Date	Cal Due
Thermo-Hygrometer	OREGON	-	B4204075	2022/03	2024/03
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2024/04	2026/04
Cable SONDE 027 + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329971	2024/04	2025/04
R&S Commander Software	ROHDE & SCHWARZ	Version 1.6.4	-	-	-
Power supply	ROHDE & SCHWARZ	NGSM 32/10	A7040074	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1241084	2023/05	2025/05

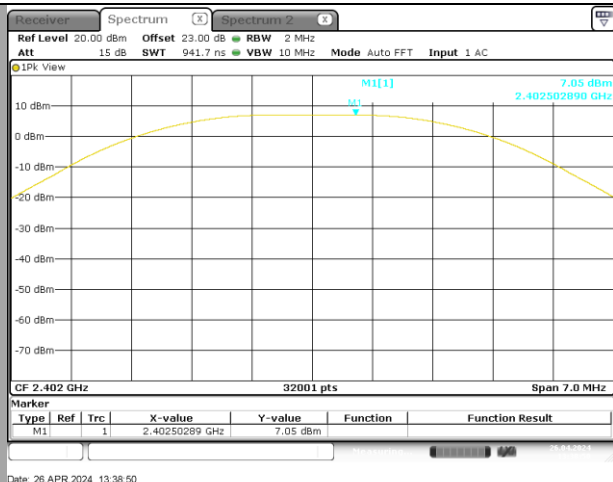
Note: In our quality system, the test equipment calibration due is more & less 2 months

6.5. RESULTS

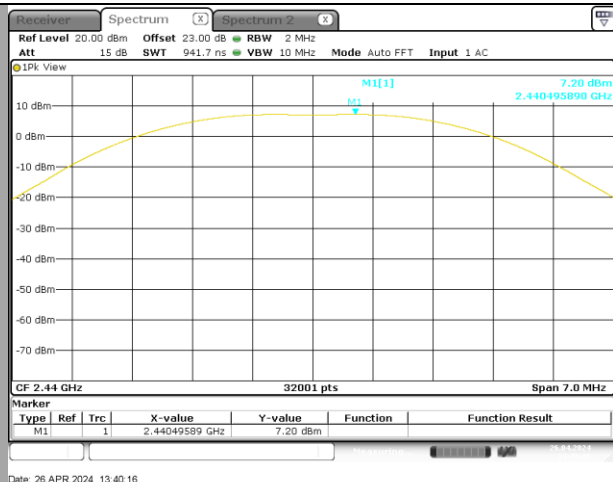


Maximum Conducted Output Power - BLE 5.0

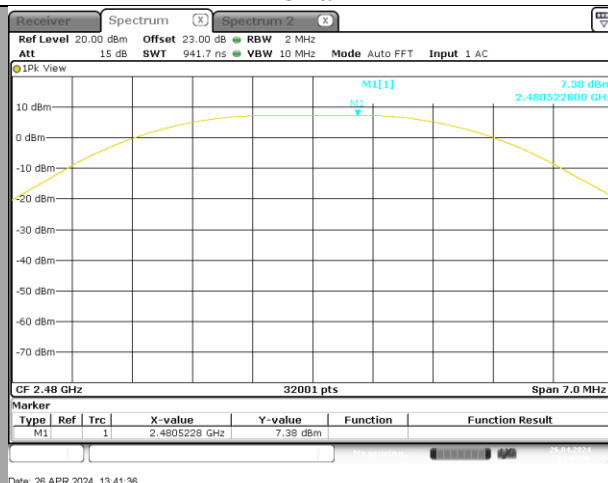
Cmin



Cnom



Cmax



Channel	Offset Cable + Att (dB)	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Limit (dBm)
Cmin	23	1.8	7.05	30
Cnom	23	1.8	7.20	30
Cmax	23	1.8	7.38	30

6.6. CONCLUSION

Maximum Conducted Output Power measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated) & VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS 247 ISSUE 3** limits.

7. POWER SPECTRAL DENSITY

7.1. TEST CONDITIONS

Test performed by : Julien Palard
Date of test : April 26, 2024
Ambient temperature : 24 °C
Relative humidity : 38 %

7.2. TEST SETUP

- The Equipment Under Test is installed:

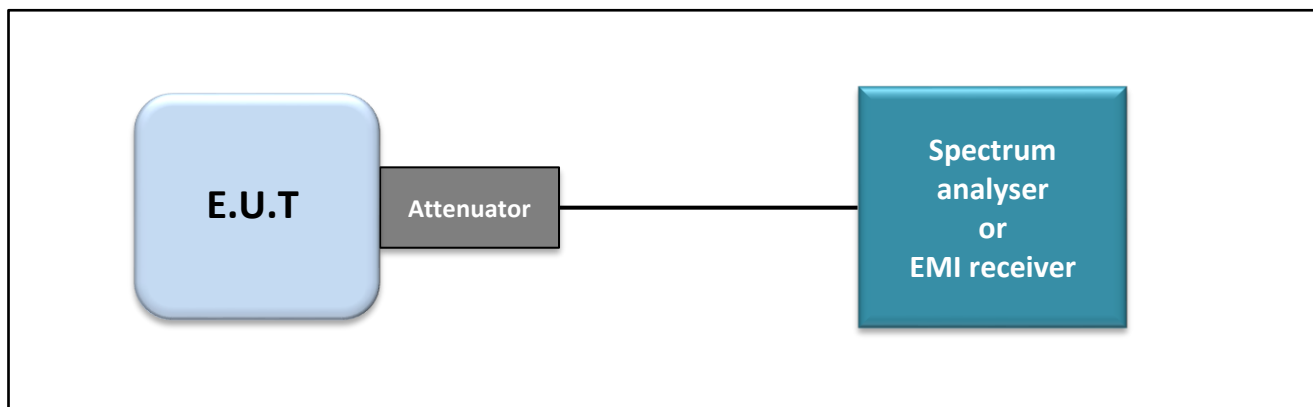
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

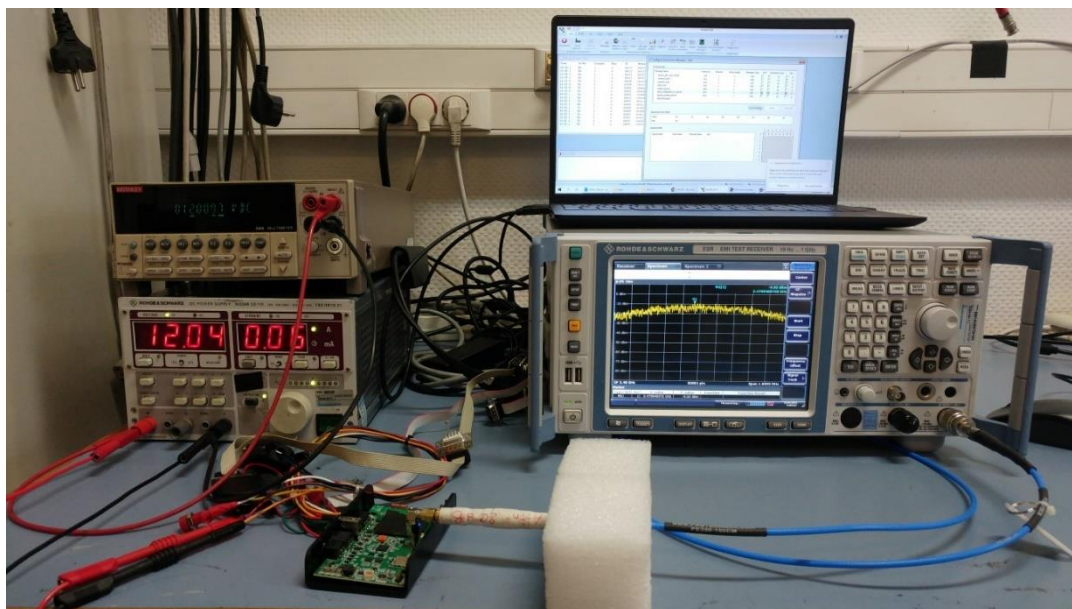
- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ ANSI C63.10 § 11.10.2 (Method PKPSD)
- ☐ ANSI C63.10 § 11.10.3 (Method AVGPSD-1)



Test set up of Power Spectral Density



Photograph for Power Spectral Density

7.3. LIMIT

Frequency range	Power Spectral Density
2400MHz to 2483.5MHz	≤8dBm/3kHz*

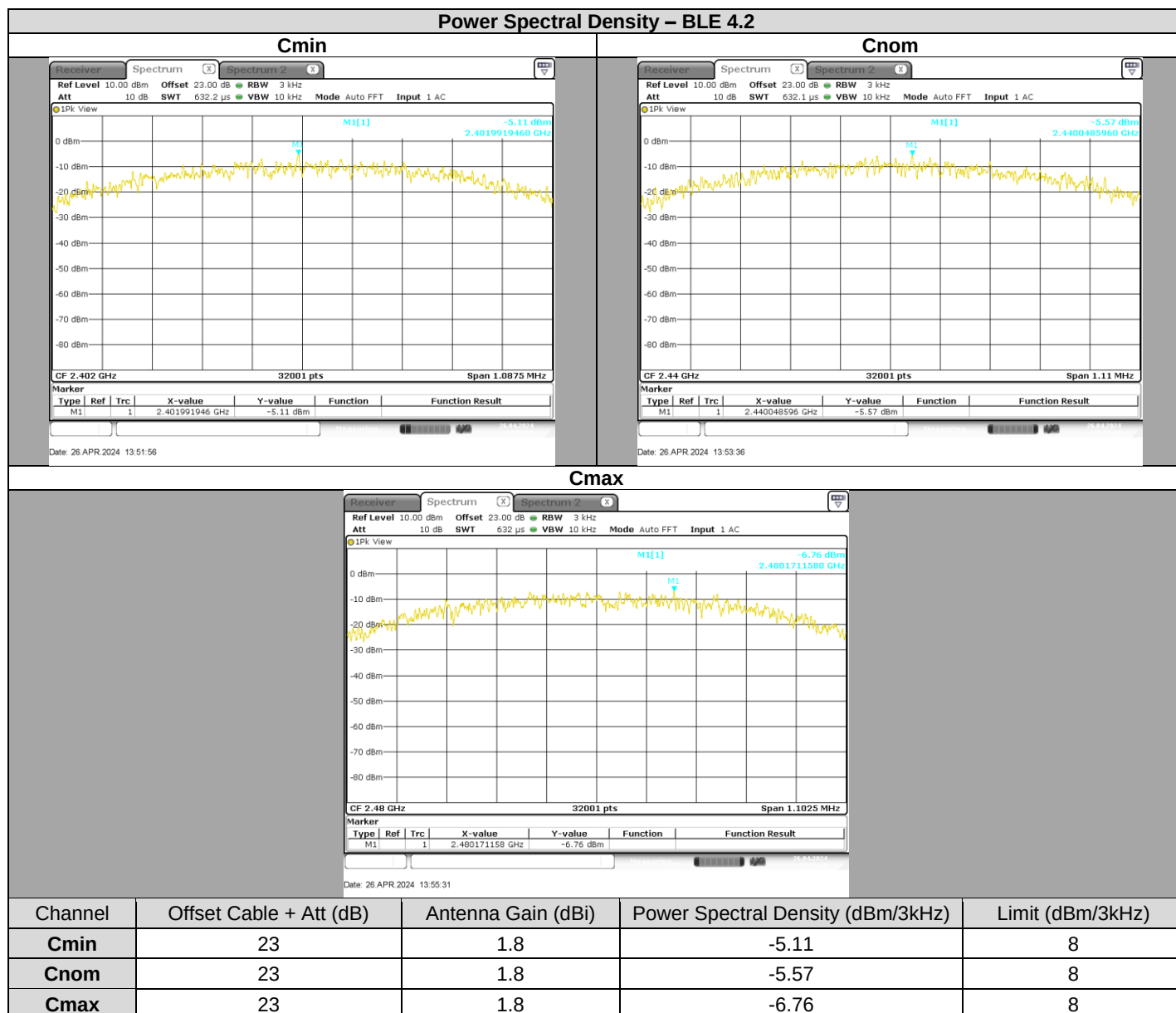
*Remark: Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

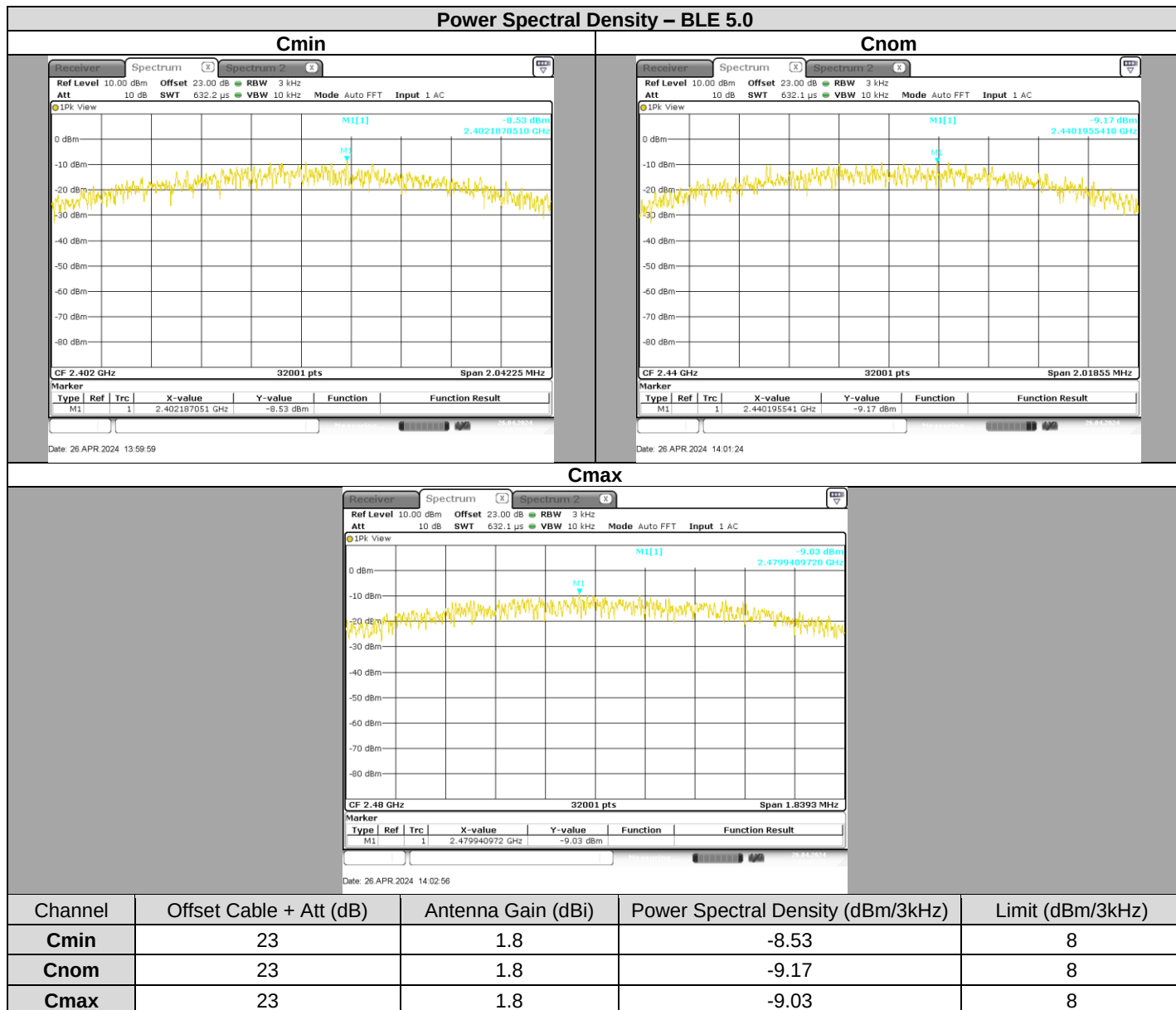
7.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal Date	Cal Due
Thermo-Hygrometer	OREGON	-	B4204075	2022/03	2024/03
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2024/04	2026/04
Cable SONDE 027 + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329971	2024/04	2025/04
R&S Commander Software	ROHDE & SCHWARZ	Version 1.6.4	-	-	-
Power supply	ROHDE & SCHWARZ	NGSM 32/10	A7040074	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1241084	2023/05	2025/05

Note: In our quality system, the test equipment calibration due is more & less 2 months

7.5. RESULTS





7.6. CONCLUSION

Power Spectral Density measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated) & VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels compliant to the 47 CFR PART 15.247 & RSS 247 ISSUE 3 limits.

8. UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS AT THE BAND EDGE

8.1. TEST CONDITIONS

Test performed by : Julien Palard
Date of test : April 26, 2024
Ambient temperature : 24 °C
Relative humidity : 38 %

8.2. TEST SETUP

- The Equipment Under Test is installed:

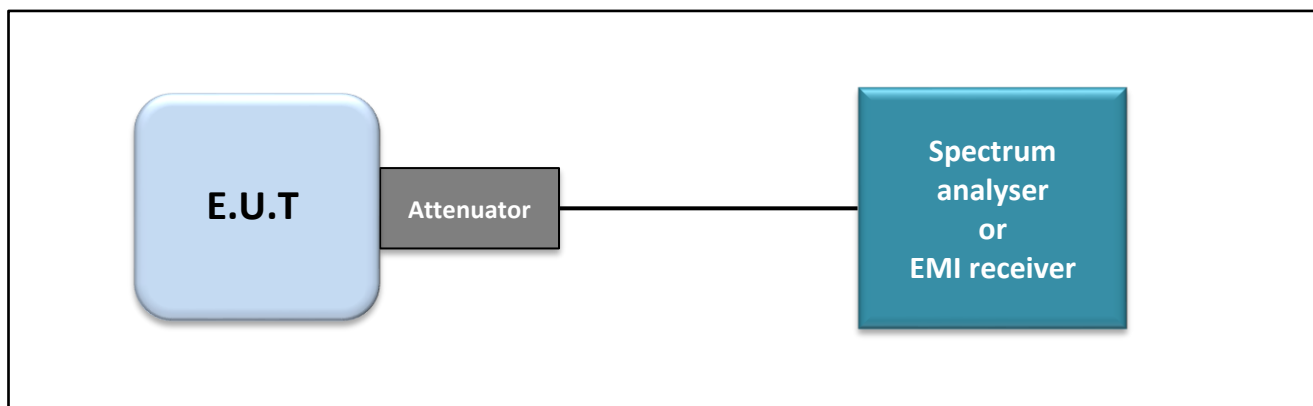
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ ANSI C63.10 § 11.11



Test set up of Unwanted Emissions into Non-Restricted Frequency Bands at the Band Edge



Photograph for Unwanted Emission into non-restricted frequency bands at the band edge

8.3. LIMIT

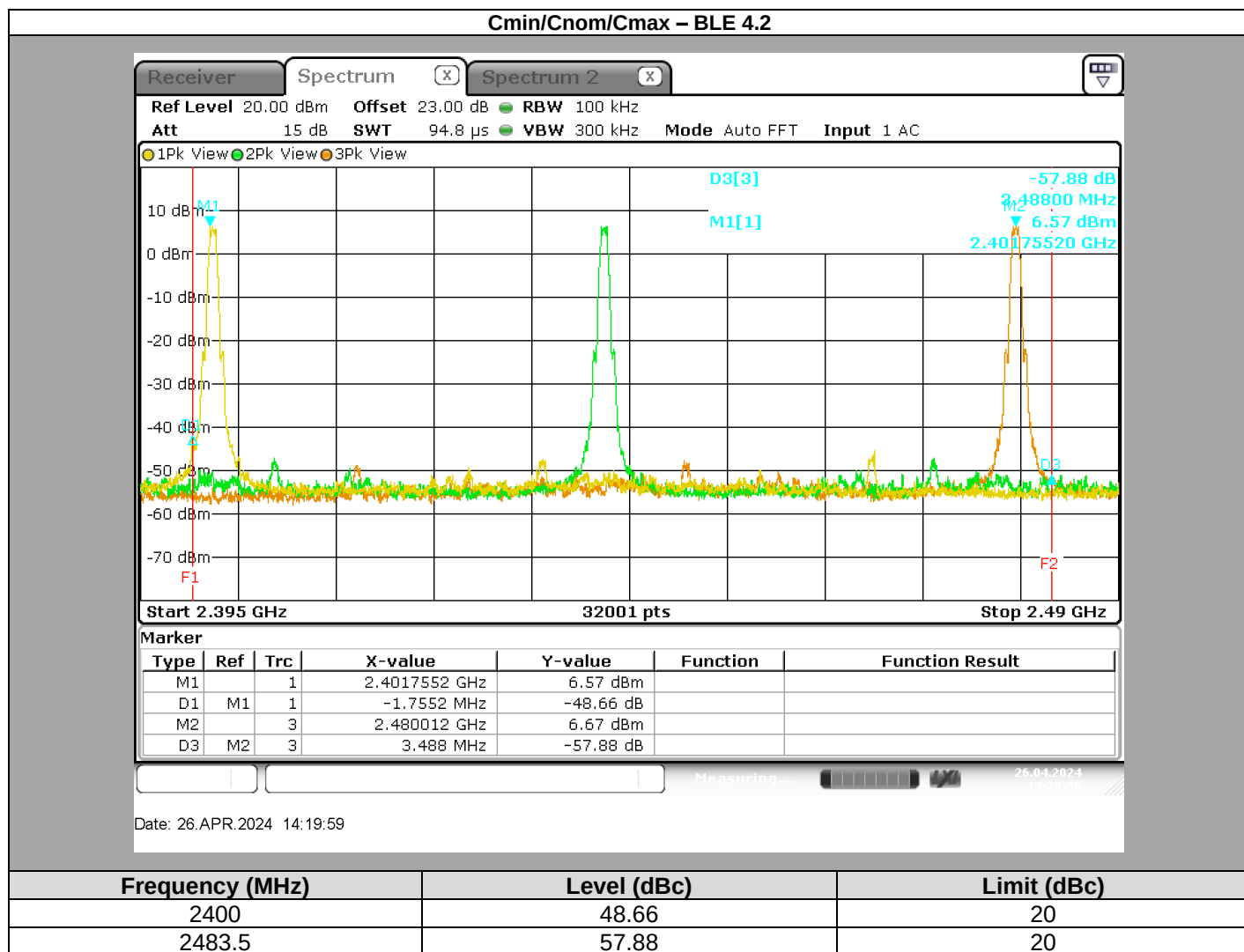
All Spurious Emissions must be at least 20dB (Maximum Conduced Power) below the Fundamental Radiator Level at the Band Edge "2400MHz & 2483,5MHz"

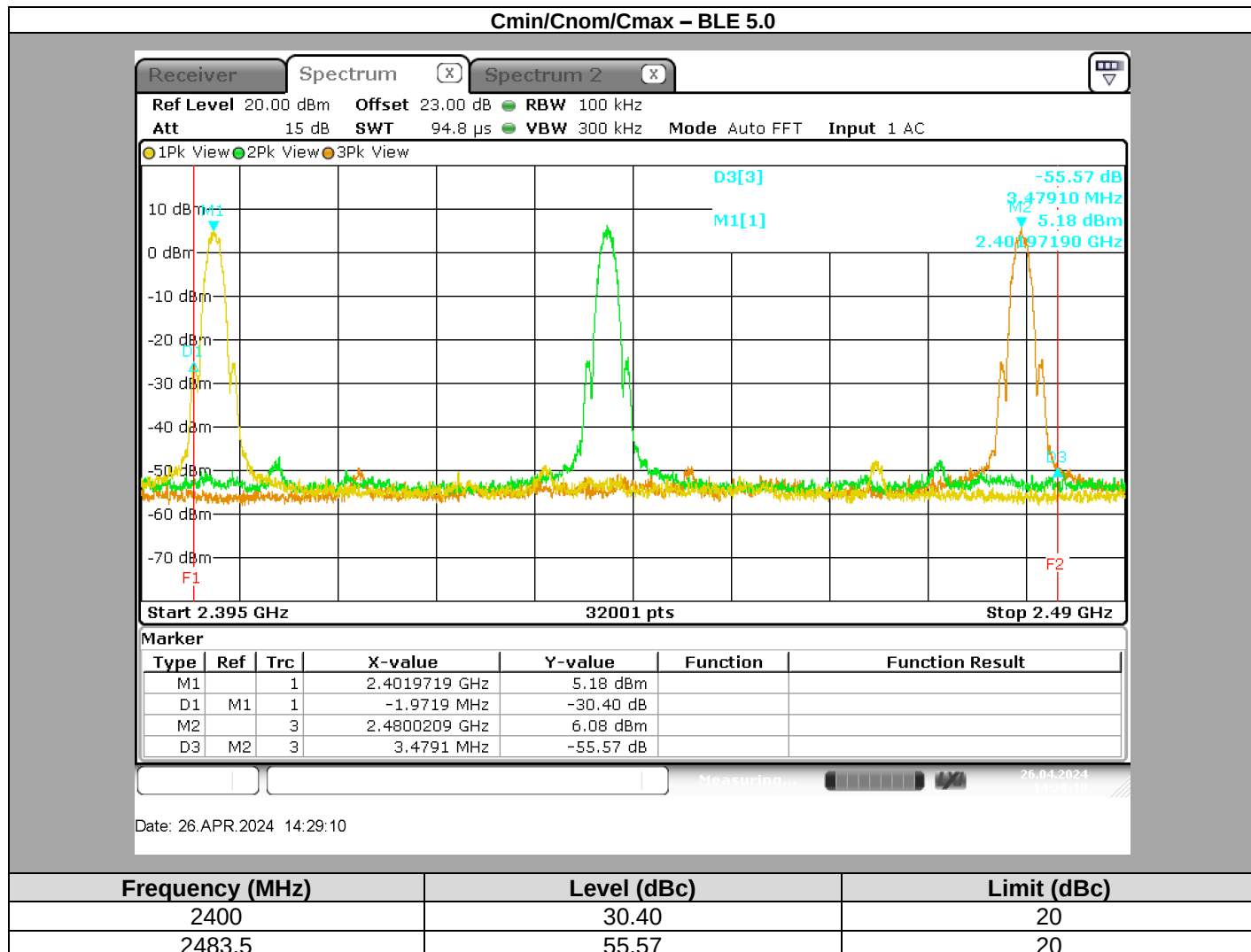
8.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
Thermo-Hygrometer	OREGON	-	B4204075	2022/03	2024/03
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2024/04	2026/04
Cable SONDE 027 + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329971	2024/04	2025/04
R&S Commander Software	ROHDE & SCHWARZ	Version 1.6.4	-	-	-
Power supply	ROHDE & SCHWARZ	NGSM 32/10	A7040074	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1241084	2023/05	2025/05

Note: In our quality system, the test equipment calibration due is more & less 2 months

8.5. RESULTS





8.6. CONCLUSION

Unwanted Emission into non-restricted frequency bands at the band edge measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated) & VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS 247 ISSUE 3** limits.

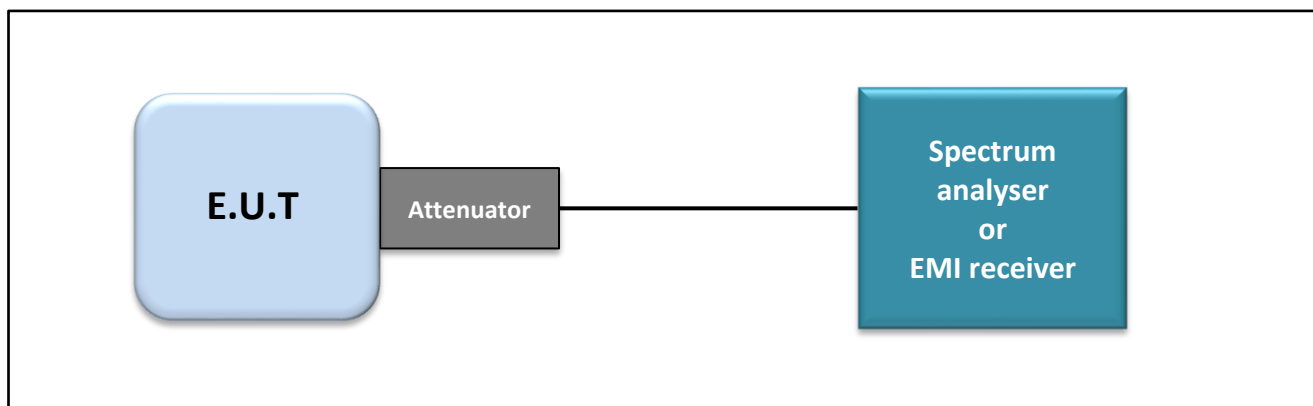
9. UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS

9.1. TEST CONDITIONS

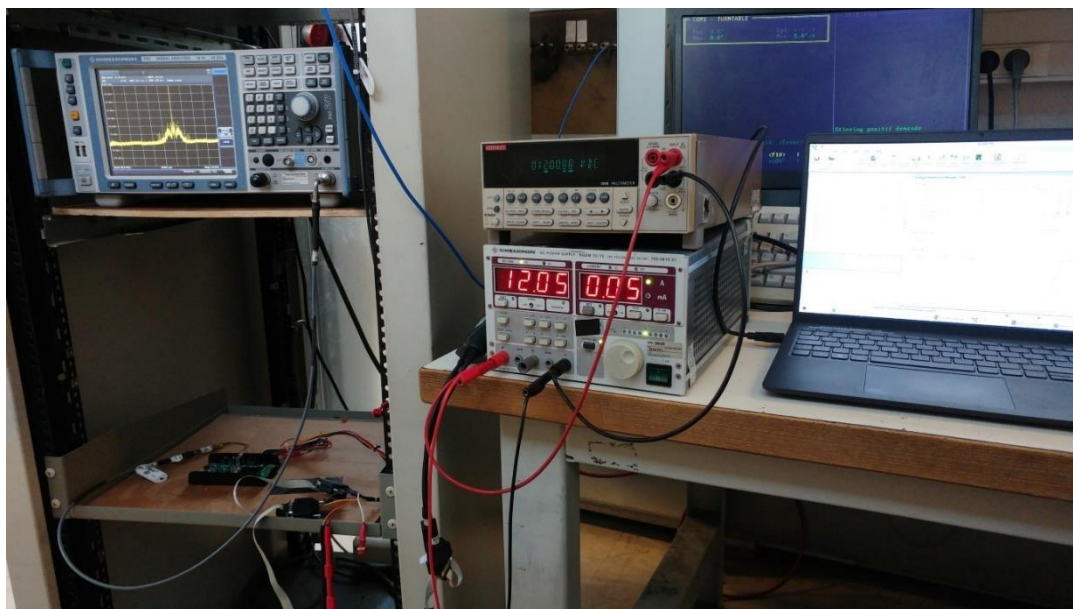
Test performed by : Julien Palard
Date of test : April 25, 2024
Ambient temperature : 23 °C
Relative humidity : 38 %

9.2. TEST SETUP

- The Equipment under Test is installed:
 - ☒ On a table
 - ☐ In an anechoic chamber
- Measurement is performed with a spectrum analyzer in:
 - ☒ Conducted Method
 - ☐ Radiated Method
- Test Procedure:
 - ☒ ANSI C63.10 § 11.11



Test set up of Unwanted Emissions into Non-Restricted Frequency Bands



Photograph for Unwanted Emission into non-restricted frequency bands

9.3. LIMIT

All Spurious Emissions must be at least 20dB (Maximum Conducted Power) below the Fundamental Radiator Level

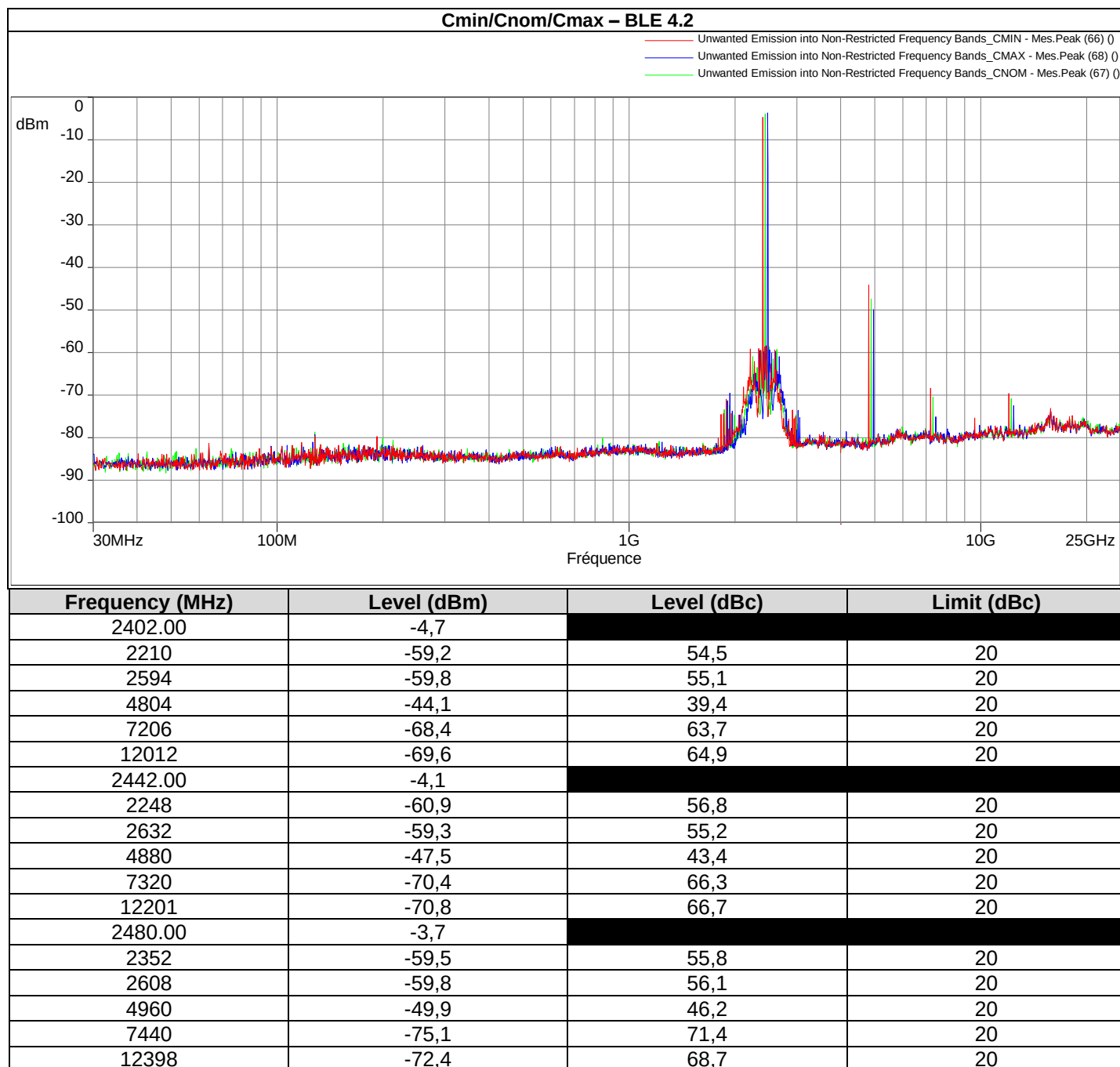


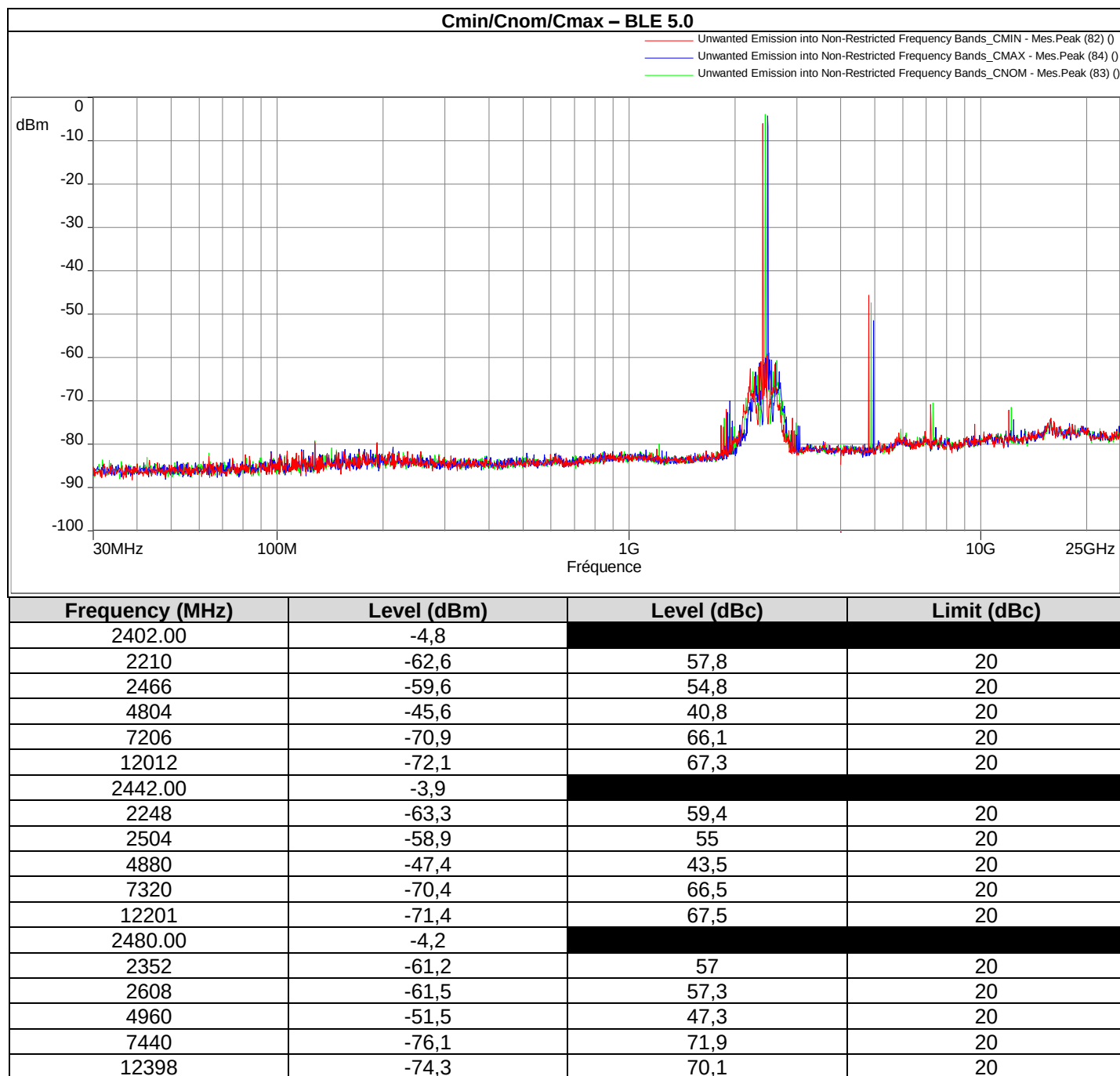
9.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal Date	Cal Due
BAT EMC Software	NEXIO	Version 3.19.1.21	-	-	-
EMI receiver	ROHDE & SCHWARZ	FSV40GHz	A4060061	2022/02	2024/02
Cable S36 chamber	PASTERNAK	PE360-1500CM	A5329940	2023/08	2024/08
Attenuator 3dB Cable Spurious Conducted	-	WA54-3-12	A7122223	2024/01	2026/01
High Pass Filter 2,4GHz	WAINWRIGHT	WHK12-2494	A7484068	2024/01	2026/01
Power supply	ROHDE & SCHWARZ	NGSM 32/10	A7040074	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1241084	2023/05	2025/05

Note: In our quality system, the test equipment calibration due is more & less 2 months

9.5. RESULTS





9.6. CONCLUSION

Unwanted Emission into non-restricted frequency bands measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated) & VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS 247 ISSUE 3** limits.



10. UNWANTED EMISSIONS IN RESTRICTED FREQUENCY BANDS

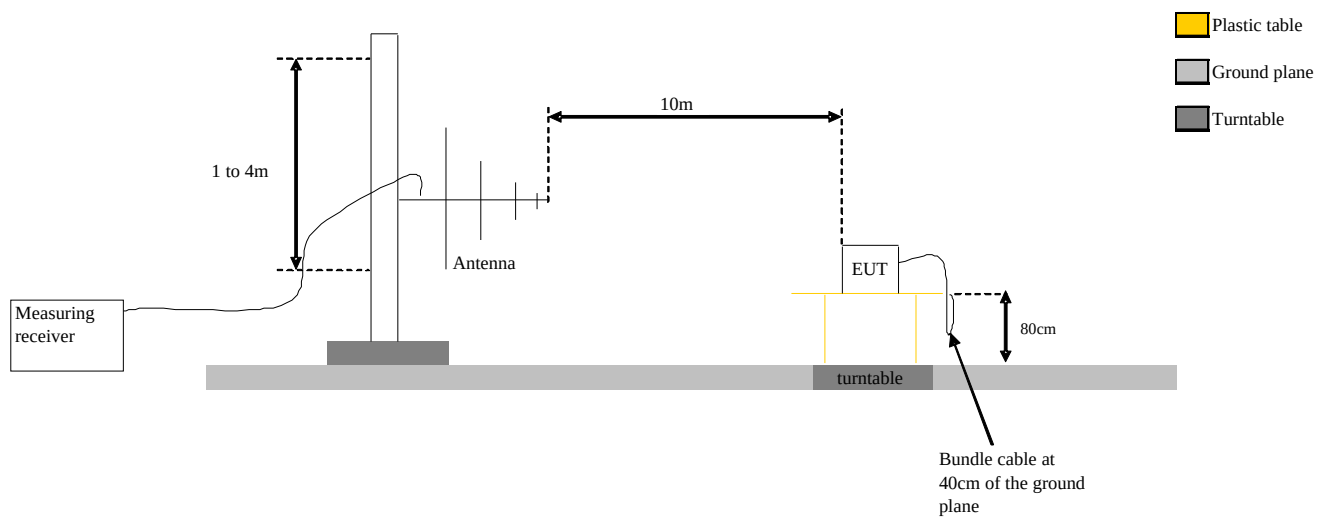
10.1. TEST CONDITIONS

Test performed by : Laurent DENEUX
Date of test : April 30, 2024
Ambient temperature : 18 °C
Relative humidity : 37 %

10.2. TEST SETUP

The product has been tested according to ANSI C63.10 and FCC part 15 subpart C:

Frequency range :	Below 30MHz	From 30MHz to 1GHz	Above 1GHz
Antenna Polarization :	Parallel, Perpendicular And Ground parallel	Horizontal And Vertical	Horizontal And Vertical
Antenna Height :	1m	Varied from 1m to 4m	Centered on EUT (§6.6.5 ANSI C63-10)
Antenna Type :	Loop	Biconical & Bi-Log	Horn
RBW Filter :	200Hz below 150kHz 9kHz above 150kHz	120kHz	1MHz
Maximization :	Turntable rotation of 360 degrees range		
EUT height :	0.8m		1.5m
Test site :	Open Aera Test Site	Open Aera Test Site	Open Aera Test Site
Distance EUT-Antenna :	3m	10m	3m



Test Set up for radiated measurement in open area test site



Photograph for Unwanted Emission in restricted frequency bands

10.3. LIMIT

Measure at 300m		
Frequency range	Level	Detector
9kHz-490kHz	67.6dB μ V/m /F(kHz)	QPeak
Measure at 30m		
Frequency range	Level	Detector
490kHz-1.705MHz	87.6dB μ V/m /F(kHz)	QPeak
1.705MHz-30MHz	29.5dB μ V/m	QPeak
Measure at 10m		
Frequency range	Level	Detector
30MHz to 88MHz	29.5dB μ V/m	QPeak
88MHz to 216MHz	33dB μ V/m	QPeak
216MHz to 960MHz	35.5B μ V/m	QPeak
960MHz to 1000MHz	43.5dB μ V/m	QPeak
Above 1000MHz	63.5dB μ V/m	Peak
	43.5dB μ V/m	Average
Measure at 3m		
Frequency range	Level	Detector
30MHz to 88MHz	40dB μ V/m	QPeak
88MHz to 216MHz	43.5dB μ V/m	QPeak
216MHz to 960MHz	46B μ V/m	QPeak
960MHz to 1000MHz	54dB μ V/m	QPeak
Above 1000MHz	74dB μ V/m	Peak
	54dB μ V/m	Average



10.4. TEST EQUIPMENT LIST

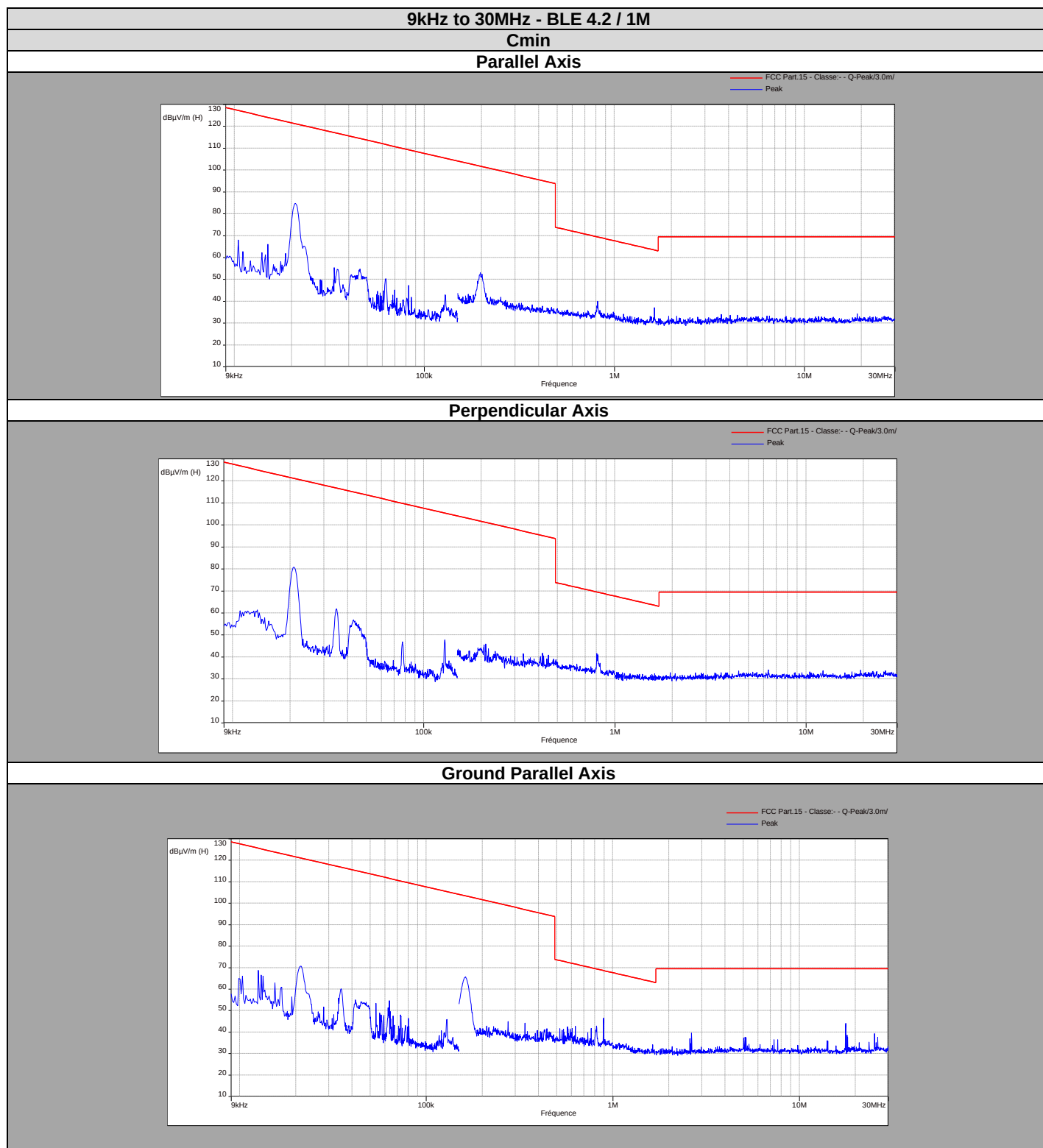
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
BAT EMC Software	NEXIO	Version 3.19.1.21	-	-	-
Preamplifier	LCIE	LCIE-ALB-001	A7080073	2023/05	2025/05
Logperiodic antenna	ROHDE & SCHWARZ	HL223	C2040174	2023/09	2025/09
Horn antenna	AH SYSTEMS	SAS 571	C2042041	2022/02	2024/02
Horn antenna (18-26,5GHz)	PASTERNAK	PE9852/2F-20	C2042048	2024/06	2026/06
EMI receiver	ROHDE & SCHWARZ	FSV40GHz	A4060061	2022/02	2024/02
Cable S36 chamber	PASTERNAK	PE360-3000CM	A5329872	2023/08	2024/08
Cable S36 chamber	PASTERNAK	PE360-1000CM	A5329939	2023/08	2024/08
Cable S36 chamber	PASTERNAK	PE360-1500CM	A5329940	2023/08	2024/08
High Pass Filter 2,4GHz	WAINWRIGHT	WHK12-2494	A7484068	2024/01	2026/01
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
OATS	-	-	F2000400	2024/03	2025/03
Receiver	ROHDE & SCHWARZ	ESU	A2642018	2023/03	2025/03
Preamplifier	BONN	BLNA 3018-8F305	A7080053	2023/11	2025/11
Antenna bilog	Schwarzbeck	VULB9160	C2040150	2023/09	2025/09
Horn antenna	ETS	3115	C2042016	2023/09	2025/09
Cable	-	-	A5329449	2023/11	2024/11
Cable	-	-	A5330070	2023/05	2024/05
Cable	-	-	A5330072	2023/05	2024/05
biconic antenna	Schwarzbeck	VHBB9124 + BBA 9106	C2040295	2023/02	2025/02
Cable	-	-	A5330071	2023/05	2024/05
Loop antenna	R&S	HFH2-Z2	C2040269	2022/12	2024/12
Cable	-	-	A5329442	2023/11	2024/11
Filter	-	-	A7484037	2023/04	2025/04
Software V3.21.0.9	NEXIO	BAT-EMC	-	-	-

Note: In our quality system, the test equipment calibration due is more & less 2 months

10.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

☒ None ☐ Divergence:

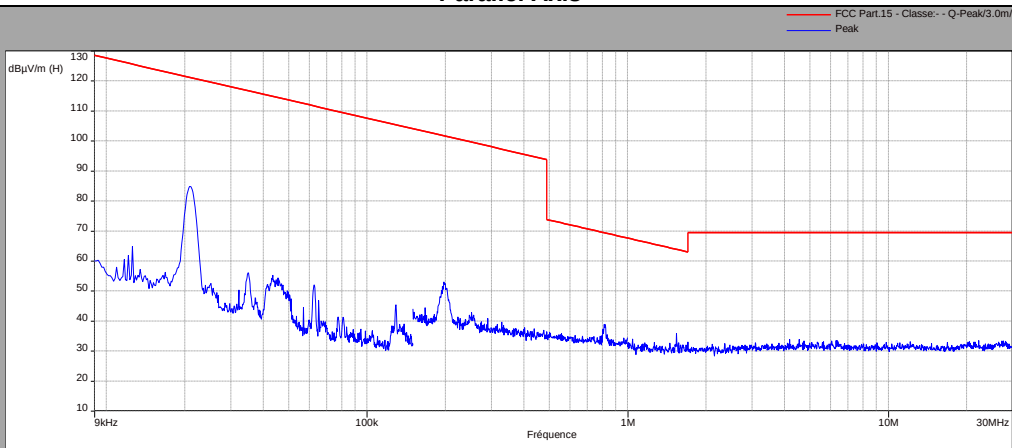
10.6. RESULTS



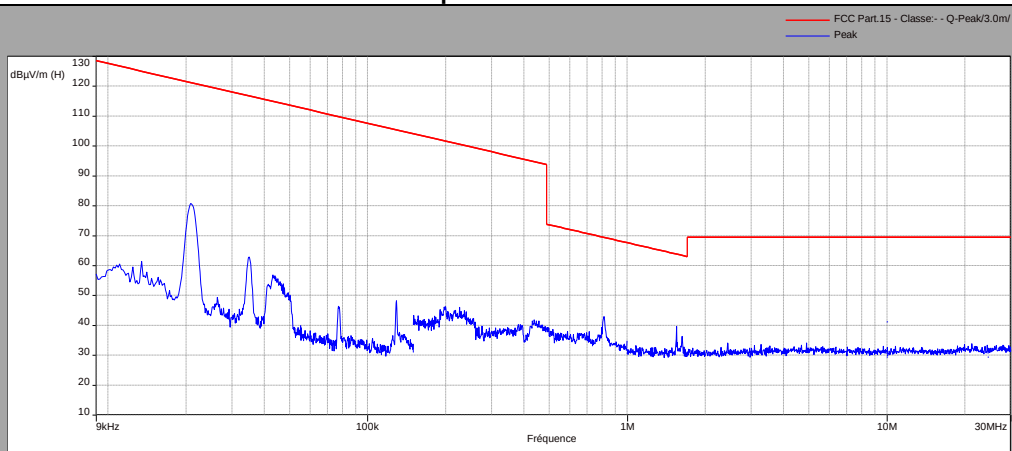
9kHz to 30MHz - BLE 5.0 / 2M

Cmin

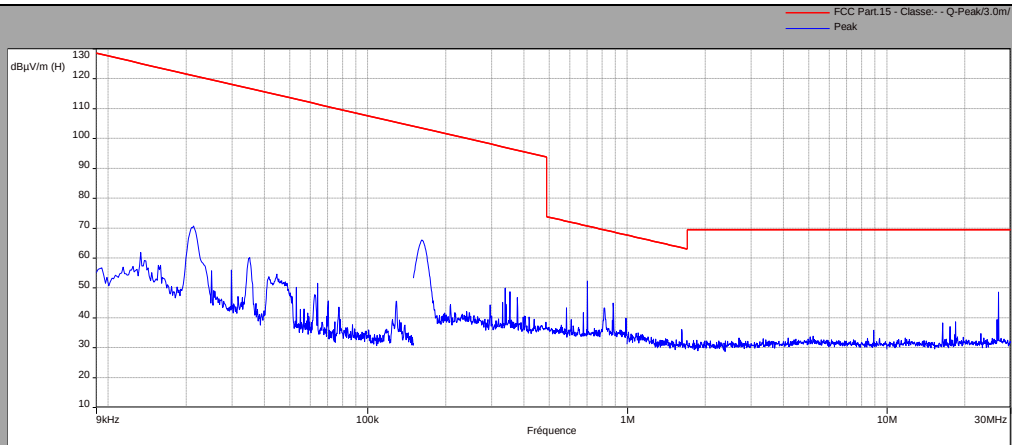
Parallel Axis

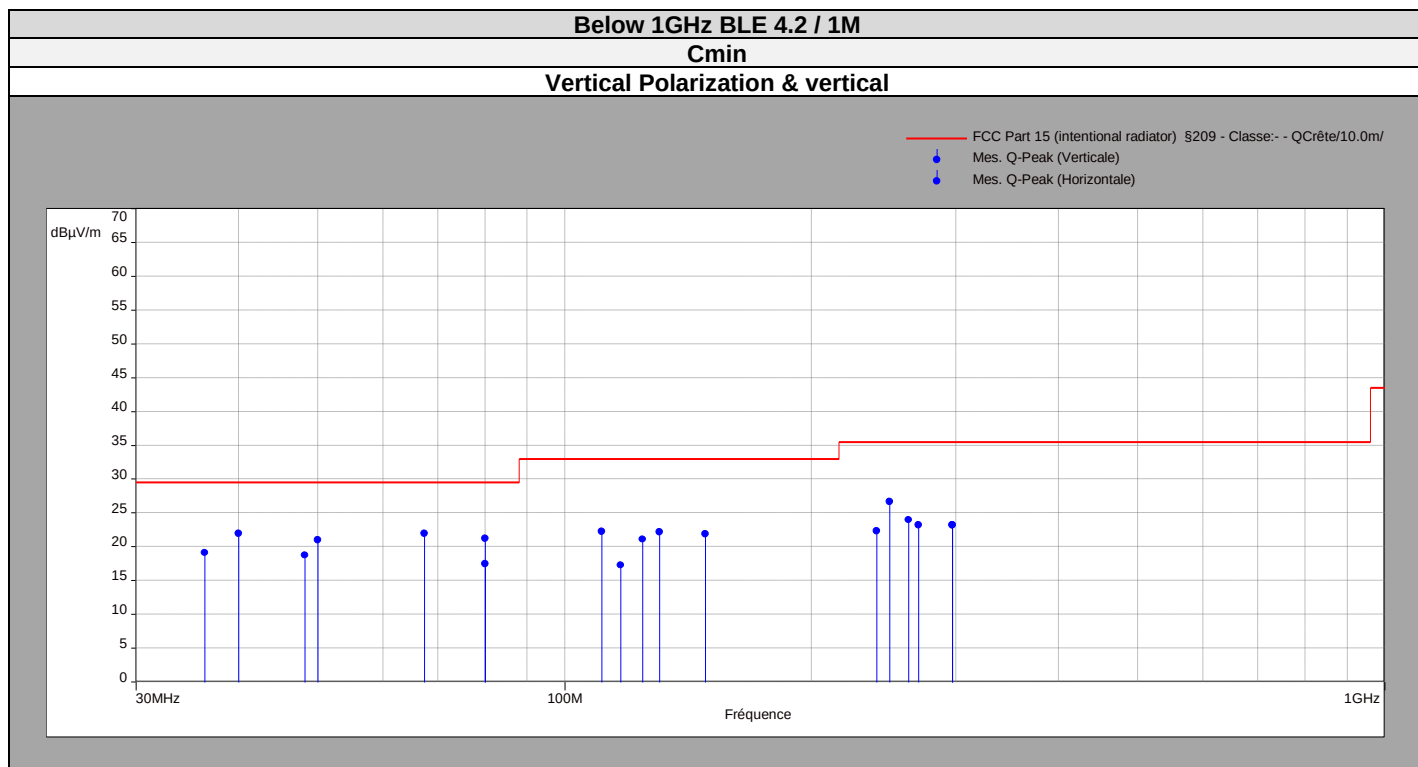


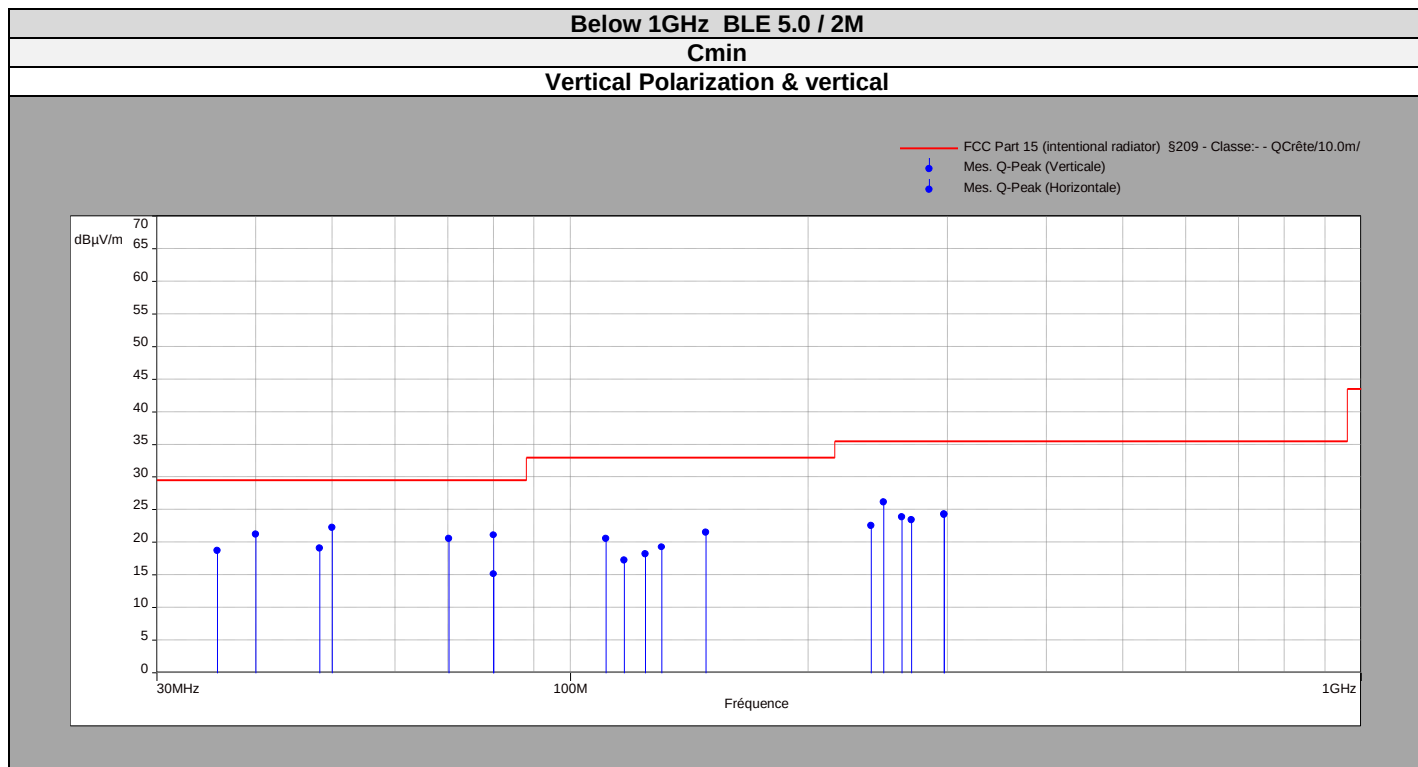
Perpendicular Axis



Ground Parallel Axis







bove 1GHz Zoom 2310MHz-2500MHz BLE 4.2 / 1M

Cmin/Cnom/Cmax

Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Avg_C0 - Verticale (Verticale)
- Mes.Peak_C0 - Verticale (Verticale)
- Mes.Avg_C20 - Verticale (Verticale)
- Mes.Peak_C20 - Verticale (Verticale)
- Mes.Avg_C39 - Verticale (Verticale)
- Mes.Peak_C39 - Verticale (Verticale)

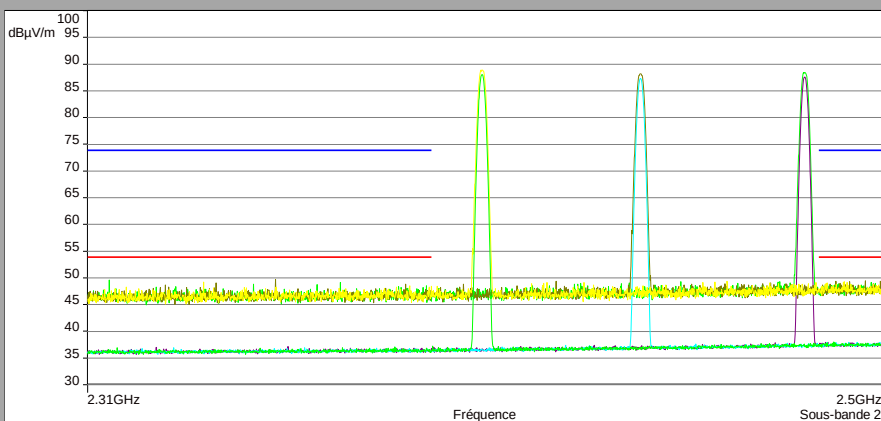
Description Sous-bande 2

Fréquences: 2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Pream

Polarisation: Verticale

Distance: 3 m



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Avg_C0 - Horizontale (Horizontale)
- Mes.Peak_C0 - Horizontale (Horizontale)
- Mes.Avg_C20 - Horizontale (Horizontale)
- Mes.Peak_C20 - Horizontale (Horizontale)
- Mes.Avg_C39 - Horizontale (Horizontale)
- Mes.Peak_C39 - Horizontale (Horizontale)

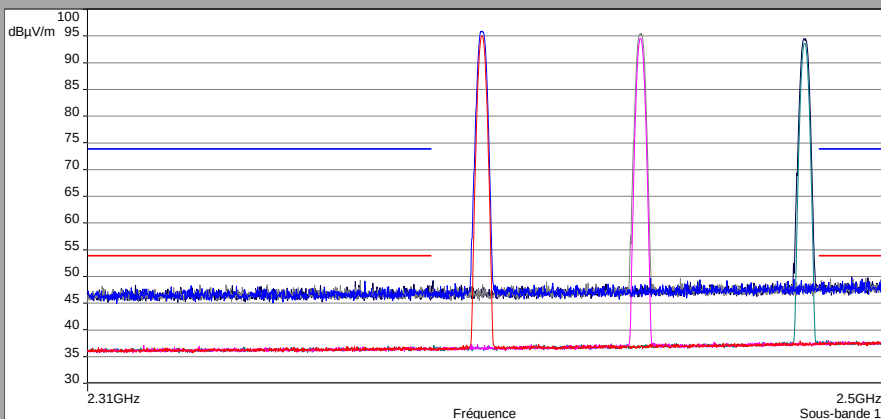
Description Sous-bande 1

Fréquences: 2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Pream

Polarisation: Horizontale

Distance: 3 m

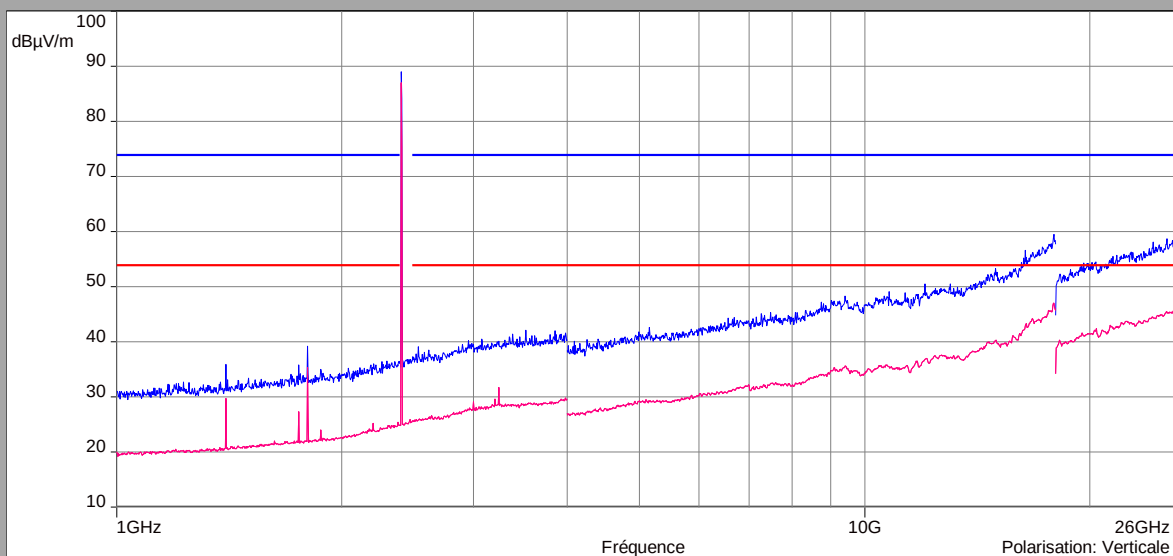


Above 1GHz BLE 4.2 / 1M

Cmin

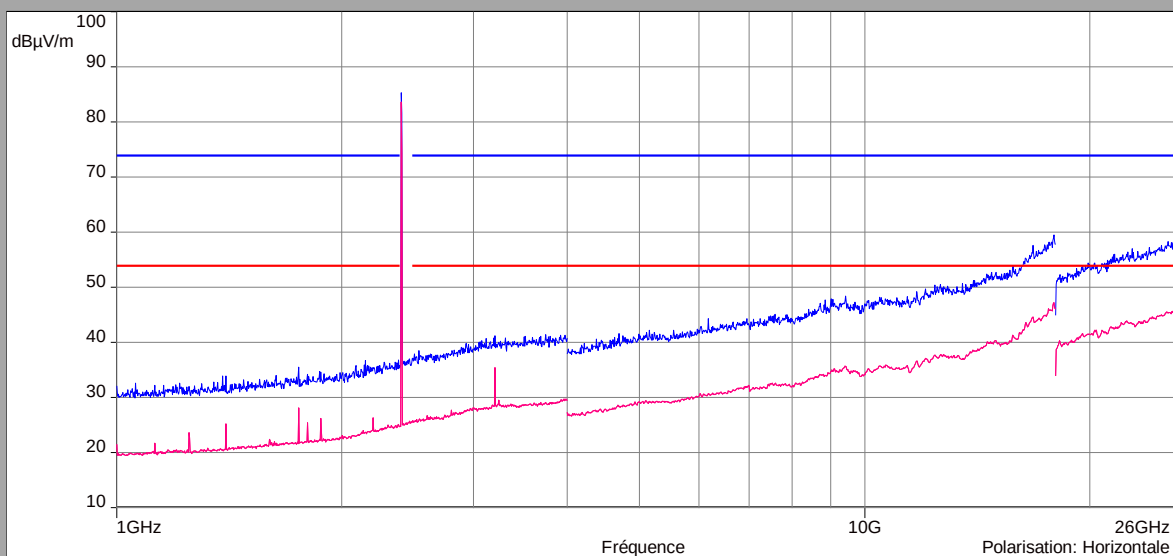
Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Verticale)
- Mes.Avg (Verticale)



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Horizontale)
- Mes.Avg (Horizontale)

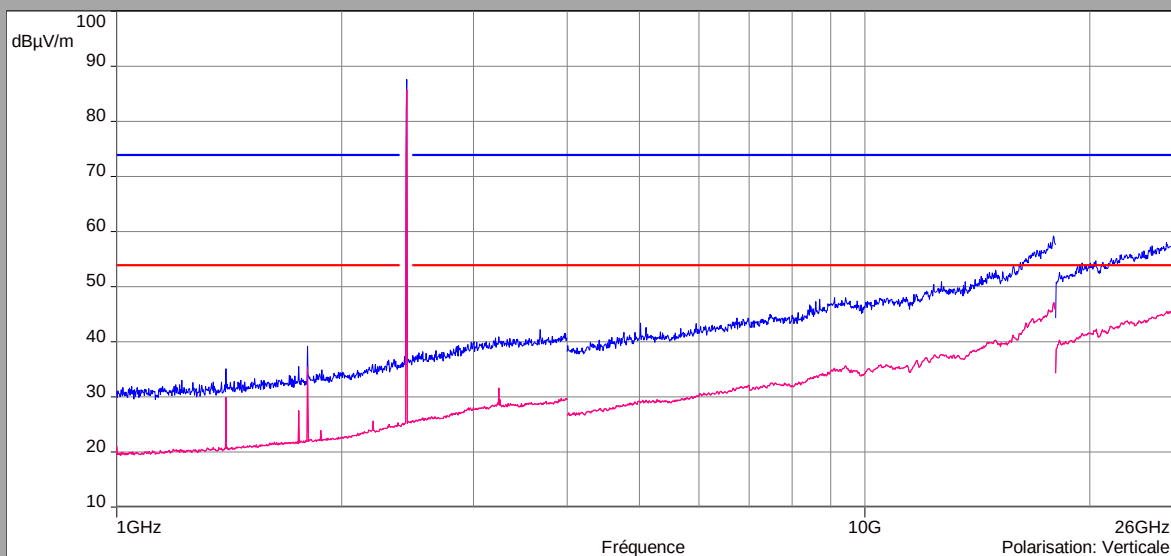


Above 1GHz_BLE 4.2 / 1M

Cnom

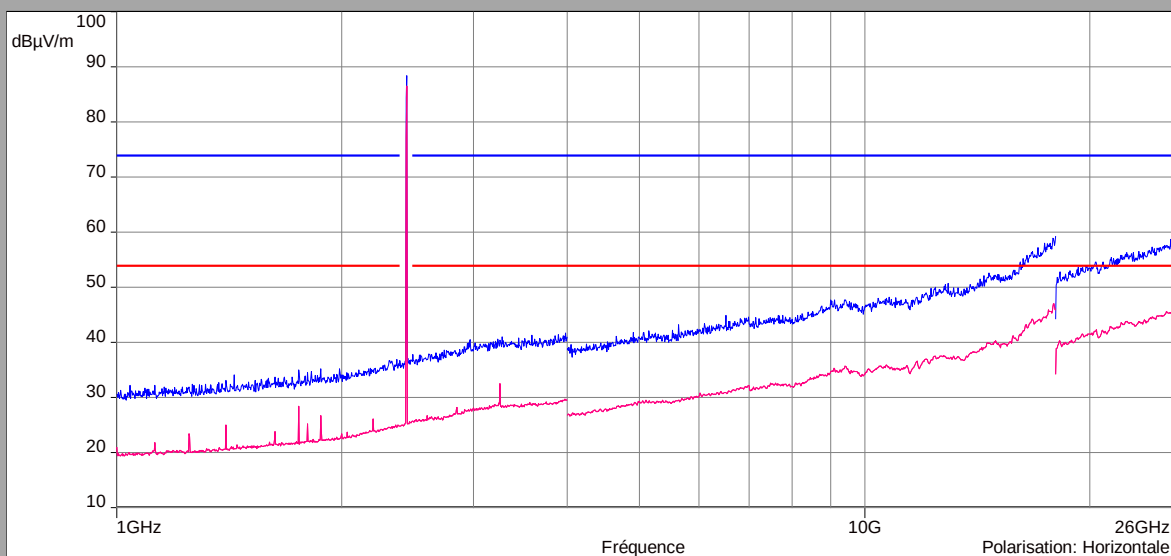
Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Verticale)
- Mes.Avg (Verticale)



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Horizontale)
- Mes.Avg (Horizontale)

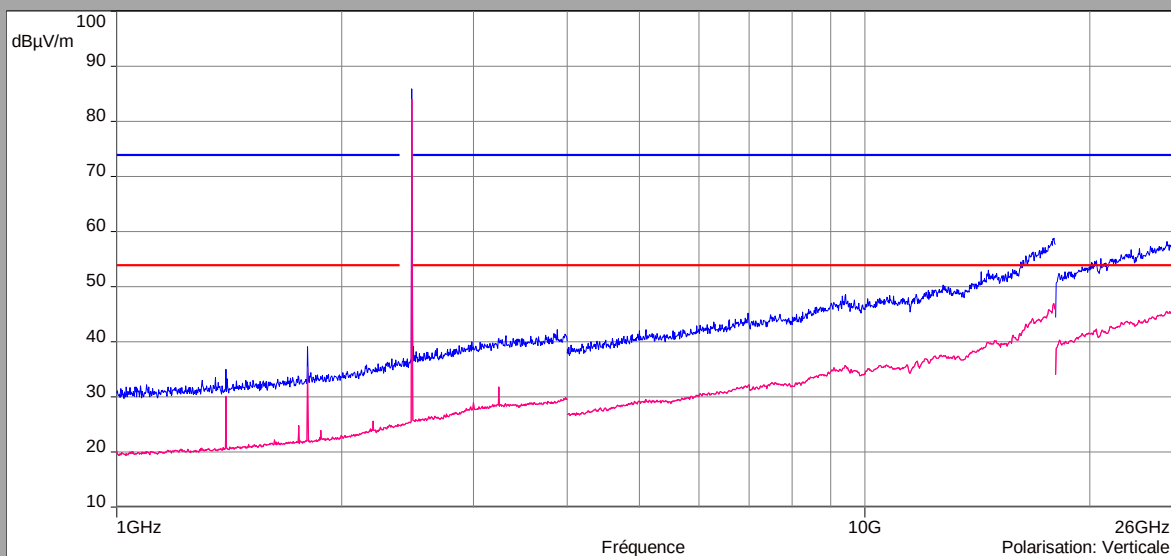


Above 1GHz BLE 4.2 / 1M

Cmax

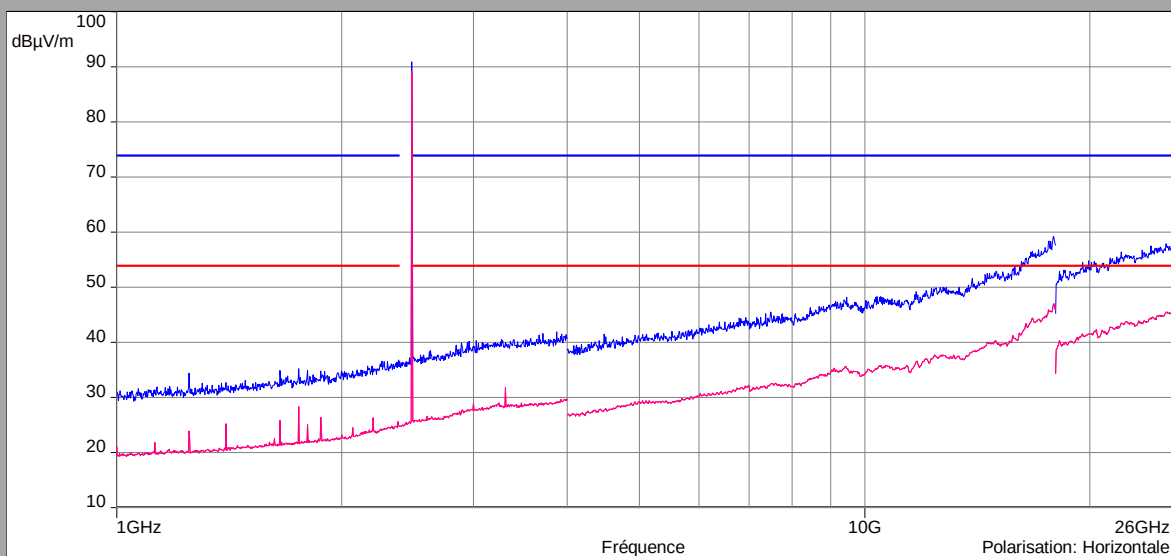
Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Verticale)
- Mes.Avg (Verticale)



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Horizontale)
- Mes.Avg (Horizontale)



Above 1GHz Zoom 2310MHz-2500MHz BLE 5.0 / 2M

Cmin/Cnom/Cmax

Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Avg_C0 - Verticale (Verticale)
- Mes.Peak_C0 - Verticale (Verticale)
- Mes.Avg_C20 - Verticale (Verticale)
- Mes.Peak_C20 - Verticale (Verticale)
- Mes.Avg_C39 - Verticale (Verticale)
- Mes.Peak_C39 - Verticale (Verticale)

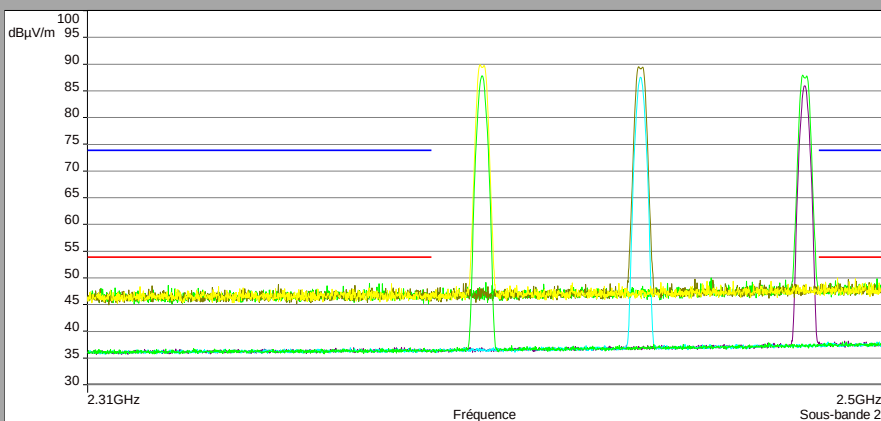
Description Sous-bande 2

Fréquences: 2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Pream

Polarisation: Verticale

Distance: 3 m



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Avg_C0 - Verticale (Verticale)
- Mes.Peak_C0 - Verticale (Verticale)
- Mes.Avg_C20 - Verticale (Verticale)
- Mes.Peak_C20 - Verticale (Verticale)
- Mes.Avg_C39 - Verticale (Verticale)
- Mes.Peak_C39 - Verticale (Verticale)

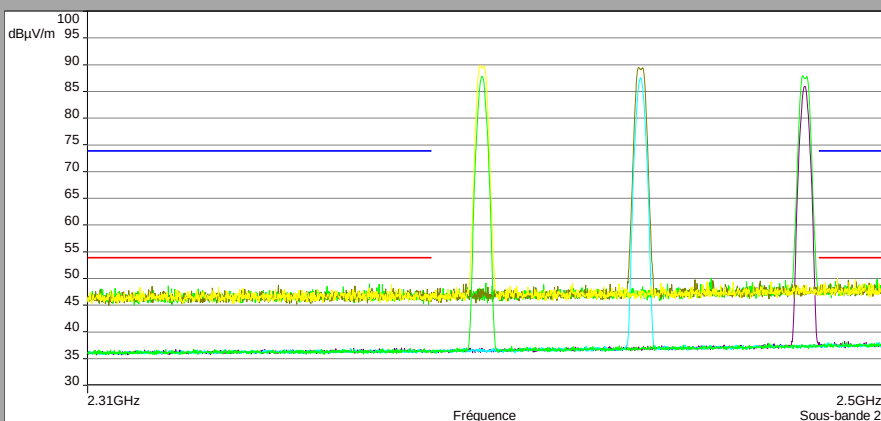
Description Sous-bande 2

Fréquences: 2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Pream

Polarisation: Verticale

Distance: 3 m

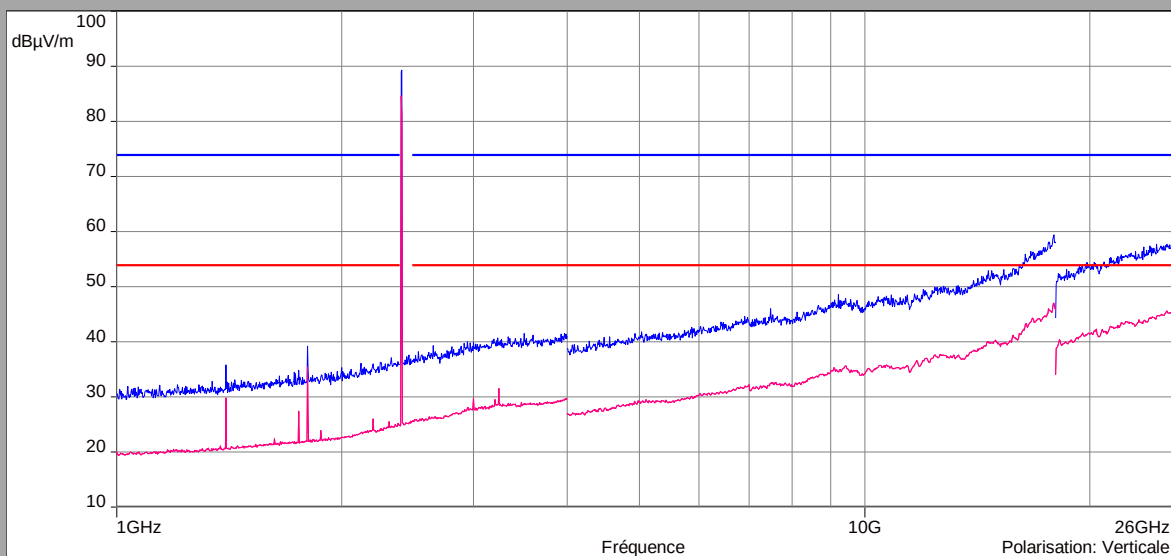


Above 1GHz_BLE 5.0 / 2M

Cmin

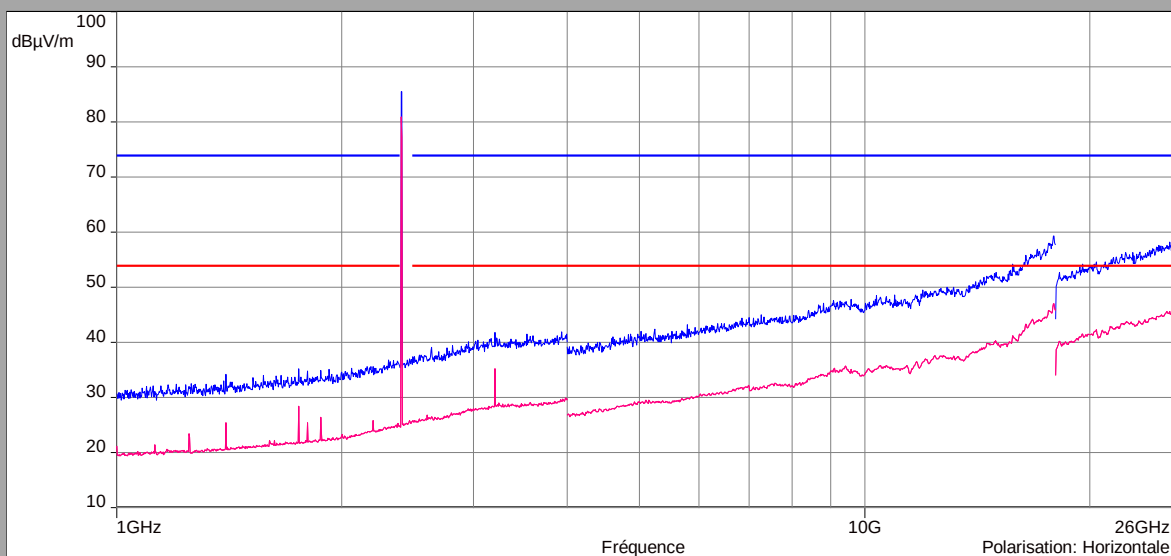
Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Verticale)
- Mes.Avg (Verticale)



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Horizontale)
- Mes.Avg (Horizontale)

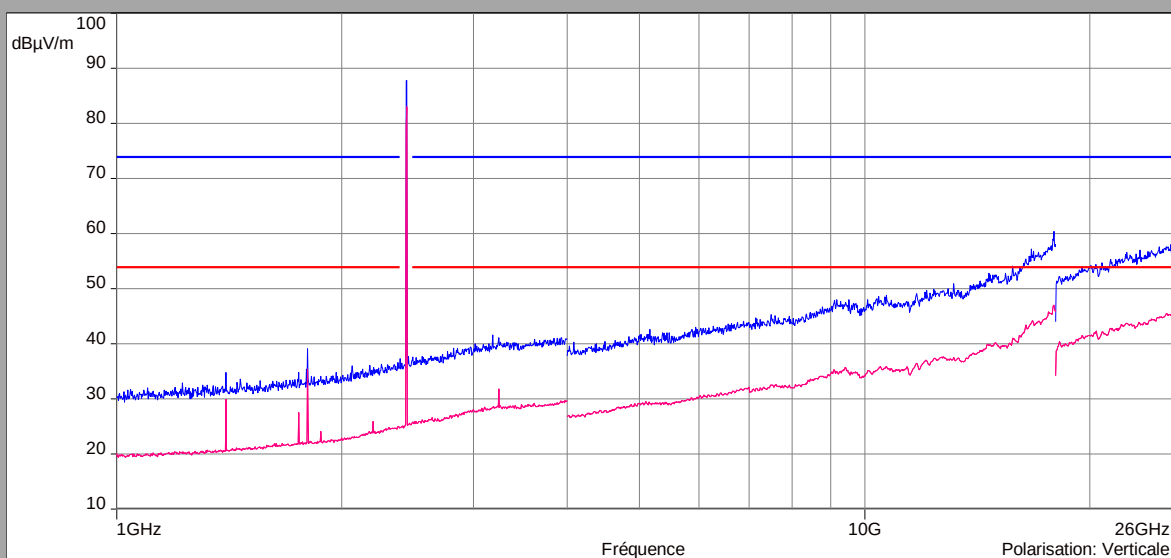


Above 1GHz_BLE 5.0 / 2M

Cnom

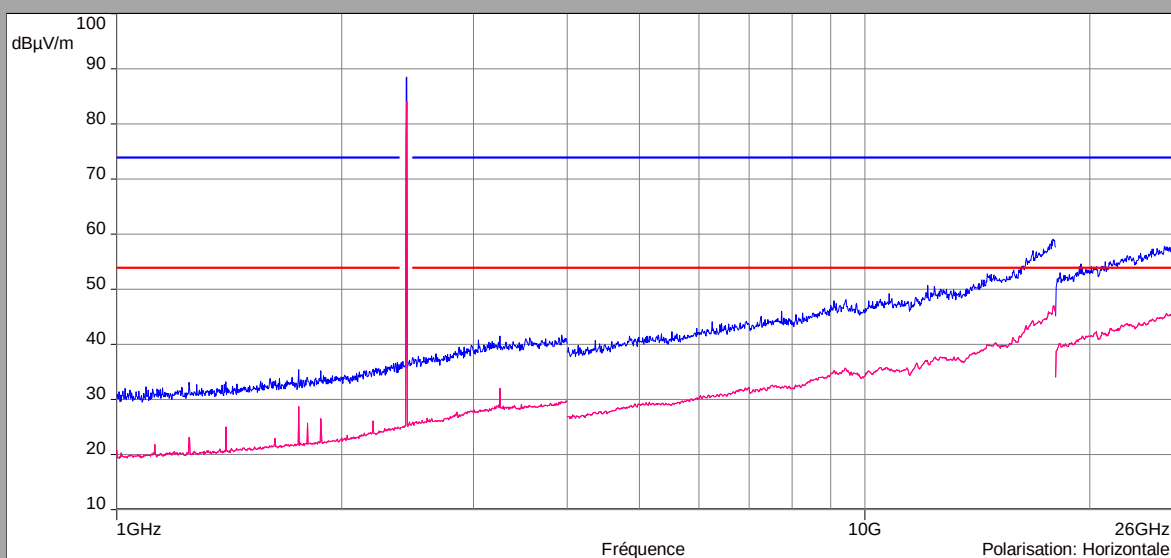
Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Verticale)
- Mes.Avg (Verticale)



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Horizontale)
- Mes.Avg (Horizontale)

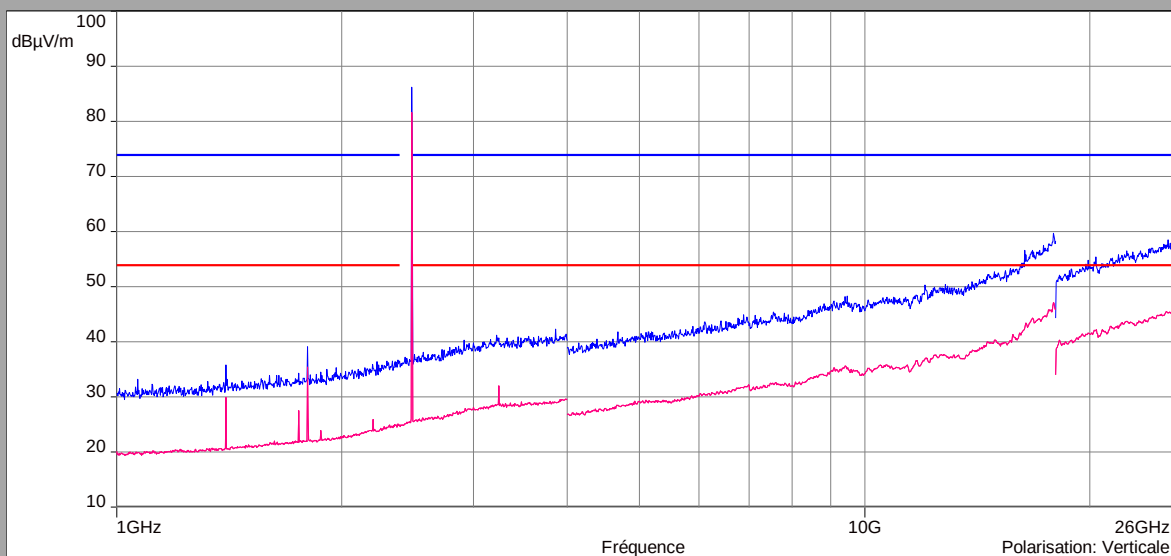


Above 1GHz BLE 5.0 / 2M

Cmax

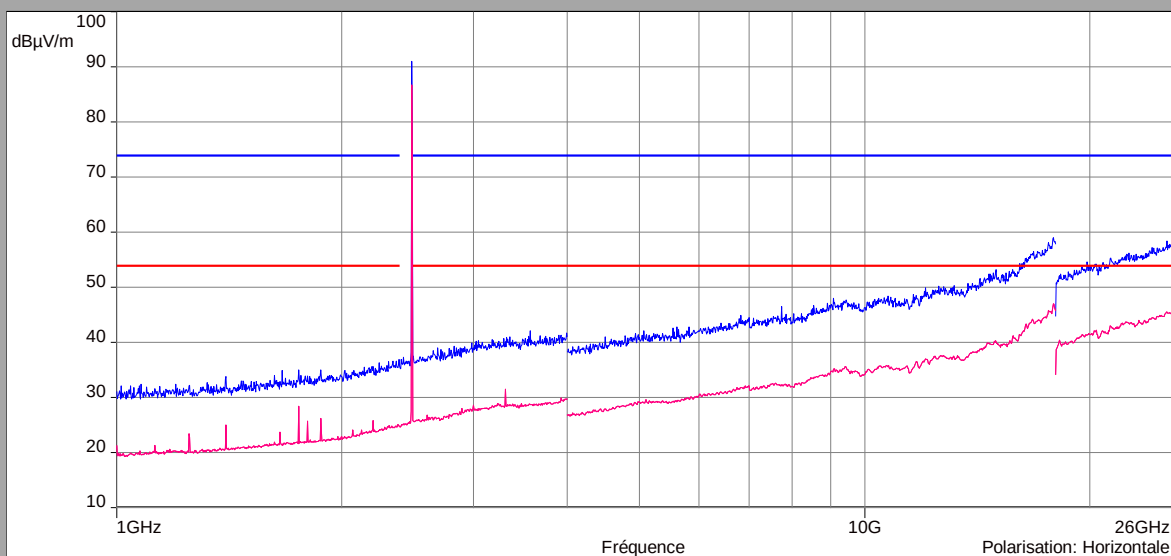
Vertical Polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Verticale)
- Mes.Avg (Verticale)



Horizontal polarization

- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - QCrête/3.0m/
- FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
- Mes.Peak (Horizontale)
- Mes.Avg (Horizontale)



9kHz to 30MHz - BLE 4.2 / 1M & BLE 5.0 / 2M				
Polarization	Frequency (MHz)	Peak Level (dBµV/m)	QPeak Level (dBµV/m)	Limit (dBµV/m)
all emissions were greater than 20 dB below the limit				

Below 1GHz - BLE 4.2 / 1M					
Polarization	Frequency (MHz)	Peak Level (dBµV/m)	QPeak Level (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)
Vertical	40	-	21.93	29.5	7.57
Vertical	50	-	20.96	29.5	8.54
Vertical	67.362949	-	21.92	29.5	7.58
Vertical	80	-	21.21	29.5	8.29
Horizontal	111	-	22.25	33	10.75
Horizontal	124.5	-	21.17	33	11.83
Horizontal	130.5	-	22.18	33	10.82

Below 1GHz - BLE 5.0 / 2M					
Polarization	Frequency (MHz)	Peak Level (dBµV/m)	QPeak Level (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)
Vertical	50	-	22.24	29.5	7.26
Vertical	70.2	-	20.53	29.5	8.97
Vertical	80	-	21.12	29.5	8.38
Vertical	249	-	26.12	35.5	9.38
Horizontal	111	-	20.56	33	12.44
Horizontal	262.7	-	23.88	35.5	11.62
Horizontal	297.01	-	24.4	35.5	11.1

Above 1GHz_BLE 4.2 / 1M								
Cmin/Cnom/Cmax								
Polarization	Frequency (MHz)	Average Level (dBμV/m)	Average Level + Duty Cycle Factor (dBμV/m)	Average Limit (dBμV/m)	Average Margin Level (dBμV/m)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin Level (dBμV/m)
Verticale	1399	27,7	27,7	54	26,3	35,9	74	38,1
Verticale	1749	27,3	27,3	54	26,7	35,8	74	38,2
Verticale	1799	35,3	35,3	54	18,7	39,2	74	34,8
Horizontale	3203	35,5	35,5	54	18,5	41,2	74	32,8
Horizontale	2390	37,0	37,0	54	17,0	49,1	74	24,9
Verticale	2390	36,9	36,9	54	17,1	49,2	74	24,8
Horizontale	2483.5	38,0	38,0	54	16,0	49,9	74	24,1
Verticale	2483.5	37,9	37,9	54	16,1	49,1	74	24,9

Above 1GHz_BLE 5.0 / 2M								
Cmin/Cnom/Cmax								
Polarization	Frequency (MHz)	Average Level (dBμV/m)	Average Level + Duty Cycle Factor (dBμV/m)	Average Limit (dBμV/m)	Average Margin Level (dBμV/m)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin Level (dBμV/m)
Verticale	1399	27,5	27,5	54	26,5	36,0	74	38,0
Verticale	1751	27,8	27,8	54	26,2	35,7	74	38,3
Verticale	1800	35,6	35,6	54	18,4	39,3	74	34,7
Horizontale	3202	35,8	35,8	54	18,2	41,1	74	32,9
Horizontale	2390	36,8	36,8	54	17,2	48,6	74	25,4
Verticale	2390	36,7	36,7	54	17,3	48,1	74	25,9
Horizontale	2483.5	37,9	37,9	54	16,1	49,2	74	24,8
Verticale	2483.5	37,8	37,8	54	16,2	49,0	74	25,0

10.7. CONCLUSION

Unwanted Emission in restricted frequency bands measurement performed on the sample of the product **DUNASYS DCar-S**, SN: **VU105585300810 (Radiated) & VU948100380110 (Conducted)**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS 247 ISSUE 3** limits.

11. UNCERTAINTIES CHART

47 CFR Part 15.209 & 15.207 Kind of test	Wide uncertainty laboratory (k=2) $\pm x(\text{dB}) / (\text{Hz}) / \text{ms}$	Uncertainty limit
Measurement of conducted disturbances in voltage on the AC power port (9 kHz – 150 kHz)	2,67	3.8
Measurement of conducted disturbances in voltage on the AC power port (150 kHz – 30 MHz)	2,67	3.4
Measurement of conducted disturbances in voltage on the telecommunication port. (AAN)	3,67	5.0
Measurement of conducted disturbances in current (current clamp)	2,73	2.9
Measurement of disturbance power	2,67	4.5
Measurement of radiated magnetic field from 10kHz to 30MHz in SAC V01	4,48	/
Measurement of radiated magnetic field from 10kHz to 30MHz in SAC C01	4,48	/
Measurement of radiated electric field from 30 to 1000MHz in horizontal position on the OATS (Ecuelles)	4,88	6.3
Measurement of radiated electric field from 1 to 18GHz on the Ecuelles site	5.16	/
Measurement of radiated electric field from 30 to 1000MHz in vertical position on the OATS (Ecuelles)	4,99	6.3
Measurement of radiated electric field from 30 to 1000MHz in horizontal position in SAC C01	5,08	6.3
Measurement of radiated electric field from 30 to 1000MHz in vertical position in SAC C01	5,16	6.3
Measurement of radiated electric field from 30 to 1000MHz in horizontal position in SAC V01	5,08	6.3
Measurement of radiated electric field from 30 to 1000MHz in vertical position in SAC V01	5,15	6.3
Measurement of radiated electric field from 1 to 6 GHz C01	5,1	5.2
Measurement of radiated electric field from 1 to 6 GHz V01	4,85	5.2
Measurement of radiated magnetic field from 10kHz to 30MHz on the OATS (Ecuelles)	4,48	/

The uncertainty values calculated by the laboratory are lower than limit uncertainty values defined by the CISPR. The conformity of the sample is directly established by the applicable limits values. This table includes all uncertainties maximum feasible for testing in the laboratory, whether or not made in this report