

Test Report



INTENTIONAL RADIATOR TESTS ACCORDING TO FCC PART 15 C AND ISED CANADA REQUIREMENTS

Equipment Under Test: Radio module

Model: TR400900

Type: UHF Radio Module

Manufacturer: Trimble Inc.
4450 Gibson Drive
Tipp City, Ohio 45371
United States

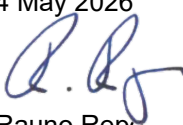
Customer: Trimble Inc.
4450 Gibson Drive
Tipp City, Ohio 45371
United States

FCC Rule Part: 15.247
IC Rule Part: RSS-247, Issue 4, 2024
RSS-GEN Issue 5 Amendment 2, 2021

KDB: 558074 D01 15.247 Meas Guidance v05r02
Guidance for Compliance Measurements on Digital Transmission Systems,
Frequency Hopping Spread Spectrum System, and Hybrid System Devices
Operating Under §15.247 of the FCC rules
(April 2, 2019)

- *partial testing, see test suite for details*

Date: 4 May 2026

Issued by: 
Rauno Repo
Senior EMC Specialist

Date: 4 May 2026

Checked by: 
Henri Mäki
Testing Engineer

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GENERAL REMARKS

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

RELEASE HISTORY

Version	Changes	Issued
1.0	Initial release	12 June 2024
1.1	Reference to RSS-247 Issue 3 updated to RSS-247 Issue 4.	4 May 2026

PRODUCT DESCRIPTION

Equipment Under Test

Trade mark:	Trimble
Model:	TR400900
Type:	UHF Radio Module
Serial no:	6403C01901
FCC ID:	S9E123130
IC:	5817A-123130

General Description

The equipment under test is a dual-band radio module using 410-470 MHz / 902-928 MHz bands. Only one of the bands can be operated at a time. This test report contains the results for 900 MHz radio. The results for 400 MHz radio are presented in Test Report HELEM2405000173-1.

Classification

Fixed device	☒
Mobile Device (Human body distance > 20cm)	☒
Portable Device (Human body distance < 20cm)	☐

Ports and cables

Cable / Port	Description
Serial port RS232	Device configuration and data communication. Unshielded
DC input port	9 – 16 VDC (12 V used during testing)
Antenna port	50Ω TNC (female)

Specifications

Frequency range:	902 – 928 MHz
Channels:	50
Channel separation:	510 kHz
Transmission technique:	FHSS
Modulation:	BPSK
Power supply:	3.8 – 4.4 VDC (tested with 4.1 V regulated by the evaluation board)

Mechanical Size of the EUT

Height: 6.7 mm	Width: 36 mm	Length: 57 mm	Weight: 0.02 kg
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Peripherals

Peripheral	Description / Usage
Test PC	Device configuration and monitoring with programs supplied by customer.
Whip Antenna	McGill Microwave Systems, MM-ANT-NM-915-6DBI (6 dBi nominal gain). Reference antenna used during testing, supplied by customer.
Yagi Antenna	CompleTech, CA930Y-TNC (6 dBi nominal gain). Reference antenna used during testing, supplied by customer.

SUMMARY OF TESTING

Test Specification	Description of Test	Result
§15.203	Antenna requirement	PASS
§15.207(a) / RSS-GEN 8.8	AC Power-Line Conducted Emissions	N/T
§15.247(a)(1)(i) / RSS-247 5.1 a)	20 dB Bandwidth	N/T
§15.247(a)(1) / RSS-247 5.1 b)	Carrier Frequency Separation	N/T
§15.247(a)(1)(i) / RSS-247 5.1 c)	Number of Hopping Channels	N/T
§15.247(a)(1)(i) / RSS-247 5.1 c)	Average Time of Occupancy	N/T
§15.247(b)(2) / RSS-247 5.4 a)	Transmitter Output Power	PASS
KDB Publication 558074 D02	Duty Cycle	N/T
§15.247(d) / RSS-247 5.5	Unwanted Emissions (radiated)	PASS
§15.247(d) / RSS-247 5.5	Band-Edge Measurement and Unwanted Emissions (conducted)	PASS
RSS-GEN 6.7	99% Occupied Bandwidth	N/T

The decision rule applied for the tests results stated in this test report is according to the requirements of section 1.3 of ANSI C63.10-2013.

EUT Test Conditions during Testing

The EUT was in continuous transmit mode during all the tests. The EUT was configured into the wanted channel using software provided by the manufacturer ("TypeApproval_Mikimoto_UI_V046_14052023.exe"). During the tests the EUT was mounted on an evaluation kit provided by the manufacturer (model M3-TR3 Evaluation kit). The radiated tests were performed with two different reference antennas provided by the customer.

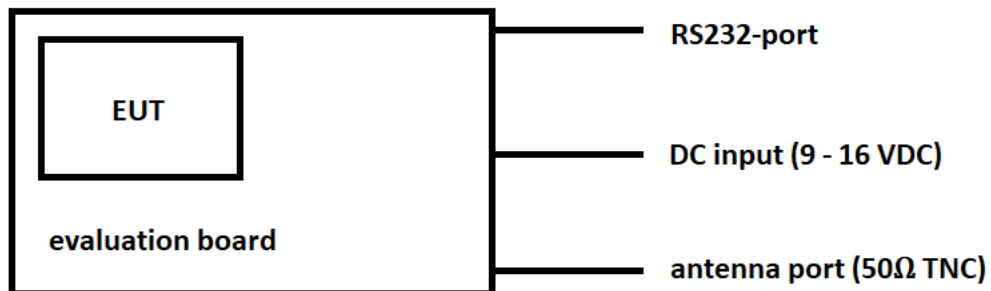


Figure 1: Test setup block diagram

Table 1: Test frequencies

Channel	Frequency (MHz)
LOW	902.621429
MID	914.850000
HIGH	927.588095

Test Facility

Testing Laboratory / address: FCC designation number: FI0002 ISED CAB identifier: T004	SGS Fimko Ltd Karakaarenkuja 4 FI-02610, ESPOO FINLAND
Test Site:	☐ K10LAB, ISED Canada registration number: 8708A-1 ☒ K5LAB, ISED Canada registration number: 8708A-2 ☐ T10LAB

TEST RESULTS

Antenna requirement

Standard: FCC Rule §15.203
Tested by: LAS
Date: 20 May 2024

FCC Rule: 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Specification	Requirement (at least one of the following shall be applied)	Conclusion
§15.203	1. Permanently attached antenna 2. Unique coupling to the intentional radiator 3. Professionally installed radio. The installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	PASS
Note	Option 2 is used	

Transmitter Output Power

Transmitter Output Power

Standard: ANSI C63.10 (2013)
Tested by: LAS
Date: 30 May 2024
Temperature: 21 °C
Humidity: 47 %RH
Measurement uncertainty: $\pm 2.87\text{dB}$ Level of confidence 95 % ($k = 2$)

FCC Rule: 15.247(b)(2) RSS-247 5.4 a)

For frequency hopping systems operating in the 902-928 MHz band, the maximum peak conducted output power shall not exceed 1.0 W, and the e.i.r.p. shall not exceed 4 W if the hop set uses 50 or more hopping channels.

Measured values are peak values.

Test results

Table 2: Maximum conducted output power

Channel	Conducted Power [dBm]	Limit [dBm]	Margin [dBm]	Result
LOW	29.12	30	0.88	PASS
MID	29.00	30	1.00	PASS
HIGH	28.27	30	1.73	PASS

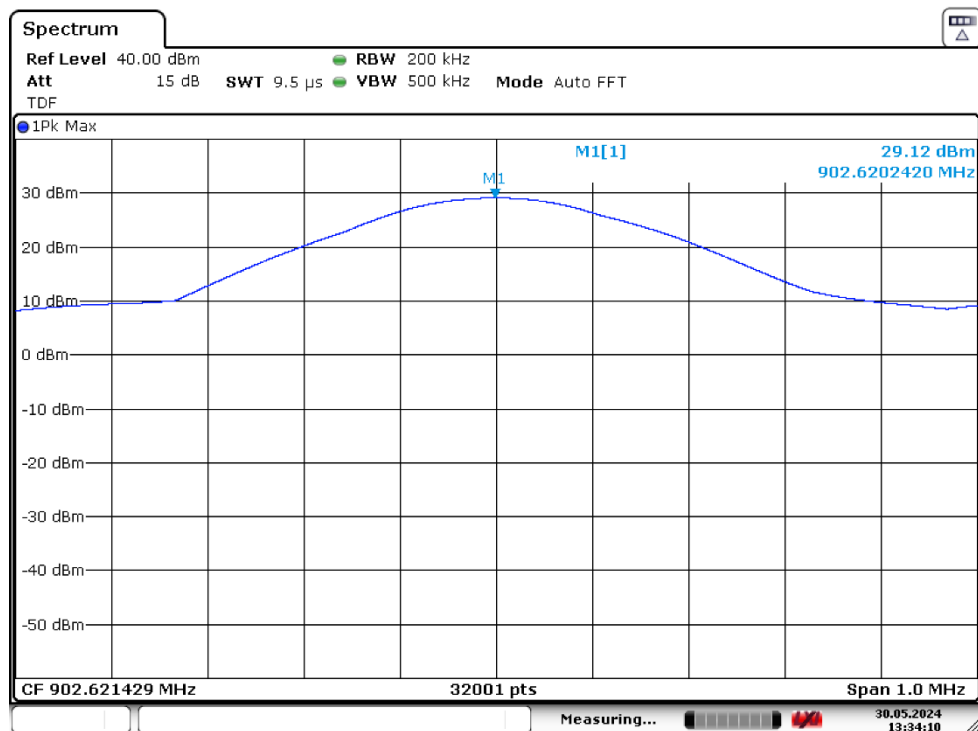


Figure 2: Transmitter output power, LOW channel

Transmitter Output Power

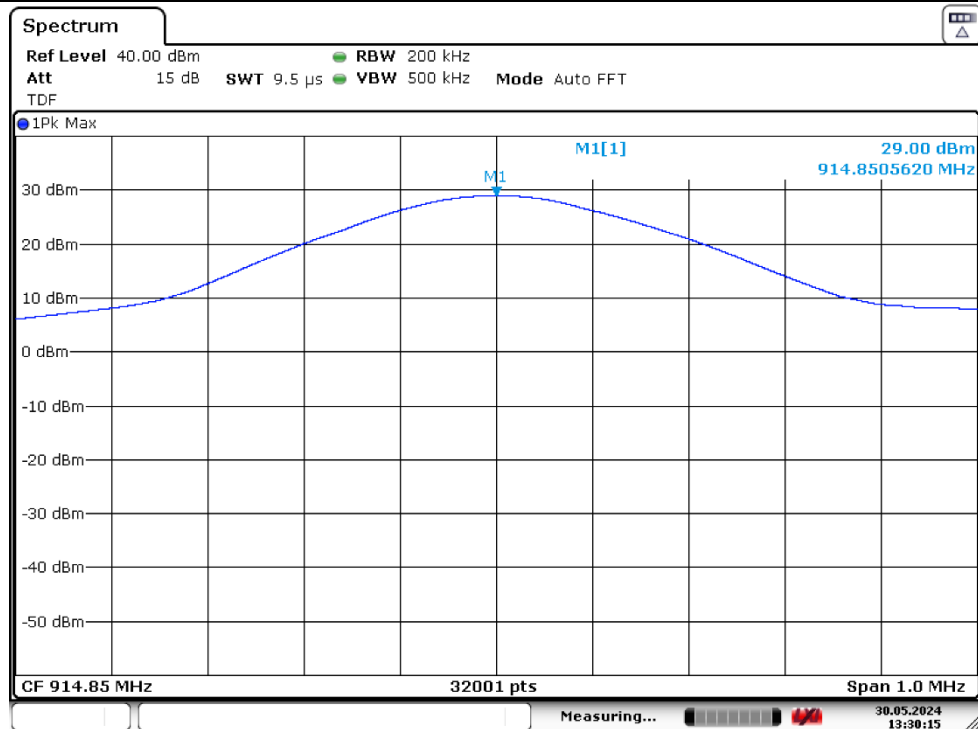


Figure 3: Transmitter output power, MID channel

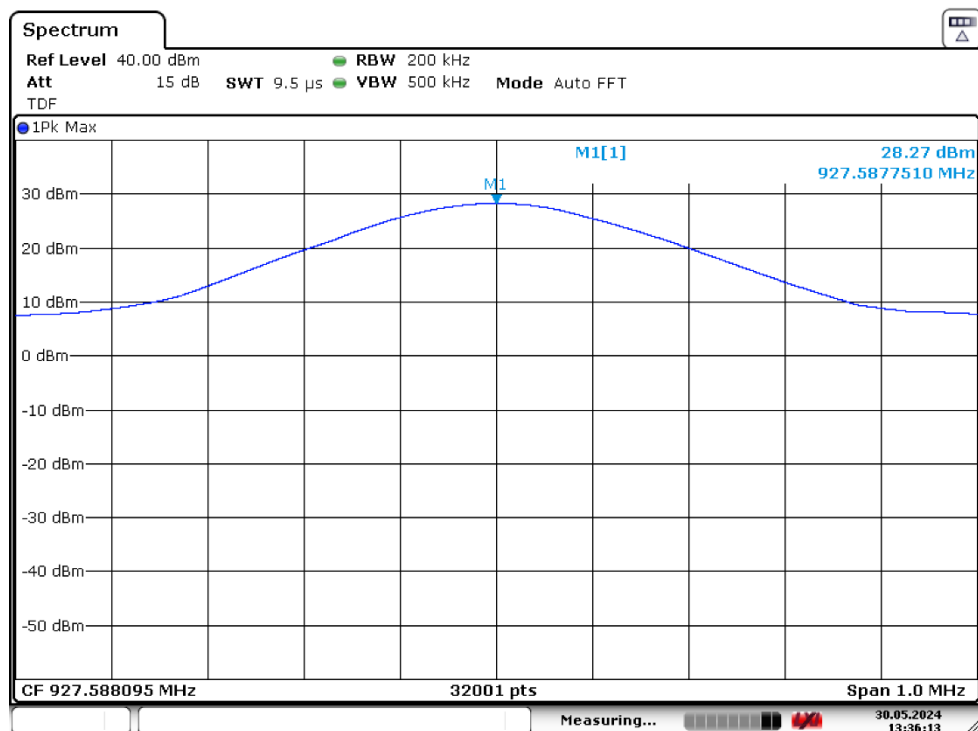


Figure 4: Transmitter output power, HIGH channel

Unwanted Emissions (radiated)

Unwanted Emissions (radiated)

Standard:	ANSI C63.10	(2020)	
Tested by:	HEM	HEM	LAS, HEM
Date:	20 May 2024	21 May 2024	22 May 2024
Temperature:	23 °C	22 °C	23 °C
Humidity:	19 %RH	35 %RH	37 %RH
Measurement uncertainty:	± 4.51 dB	Level of confidence 95 % (k = 2)	

FCC Rule: 15.247(d), 15.205(a), 15.209(a)

RSS-247 3.3, 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum of digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Exploratory measurements are performed in order to find the orientation that produces the highest emissions. The final measurements are performed with the worst orientation.

The measurements are performed with two types of reference antennas (whip antenna and Yagi antenna).

Unwanted Emissions (radiated)

Results LOW channel whip antenna

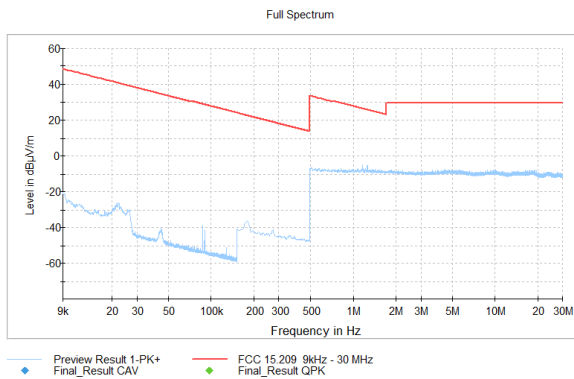


Figure 5: LOW channel (9 kHz – 30 MHz)

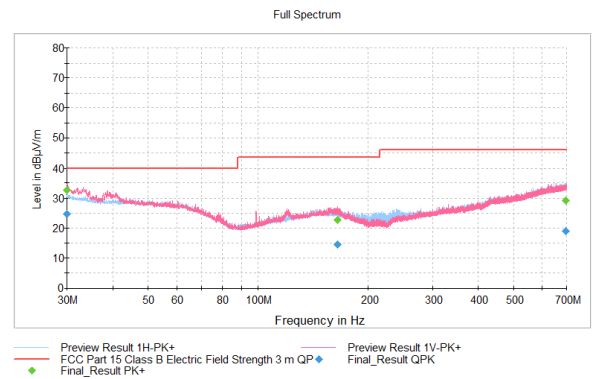


Figure 6: LOW channel (30 MHz – 700 MHz)

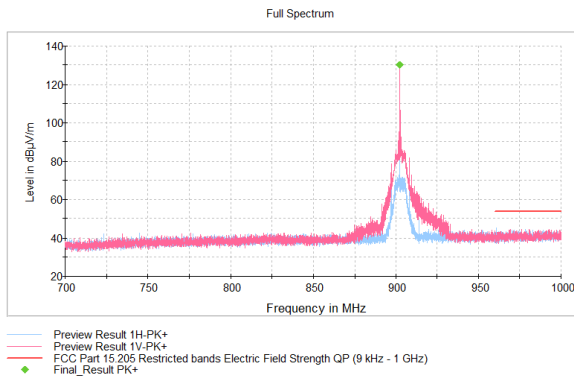


Figure 7: LOW channel (700 – 1000 MHz)

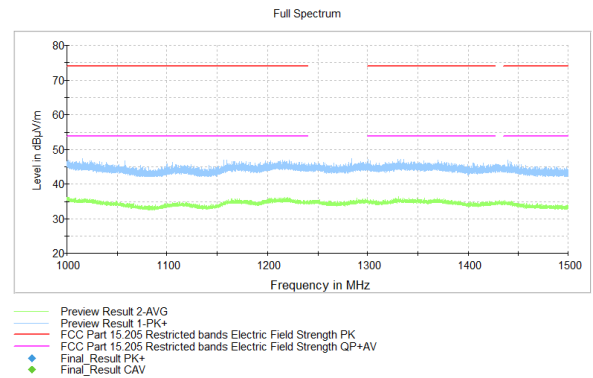


Figure 8: LOW channel (1 – 1.5 GHz)

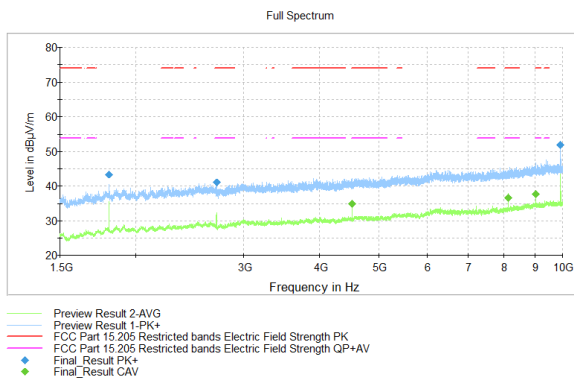


Figure 9: LOW channel (1.5 – 10 GHz)

Unwanted Emissions (radiated)

Table 3: Peak results LOW channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
902.620000	129.96	---	---	1000.0	120.000	105.0	V	164.0	47.5
1805.350000	43.45	109.96*)	66.51	1000.0	1000.000	166.0	V	9.0	3.6
2707.850000	41.10	74.00	32.90	1000.0	1000.000	343.0	H	231.0	4.7
9928.850000	51.71	109.96*)	58.25	1000.0	1000.000	186.0	V	31.0	15.4

*) -20 dBc

Table 4: Average results LOW channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4513.025000	35.04	54.00	18.96	1000.0	1000.000	244.0	V	329.0	6.9
8123.625000	36.72	54.00	17.28	1000.0	1000.000	146.0	V	335.0	12.1
9026.125000	37.67	54.00	16.33	1000.0	1000.000	204.0	V	350.0	14.2

Table 5: Quasi-peak results LOW channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.040000	24.89	40.00	15.11	1000.0	120.000	112.0	V	263.0	16.9
165.570000	14.63	43.50	28.87	1000.0	120.000	255.0	V	93.0	18.2
698.200000	18.99	46.00	27.01	1000.0	120.000	155.0	H	129.0	28.3

Unwanted Emissions (radiated)

Results MID channel whip antenna

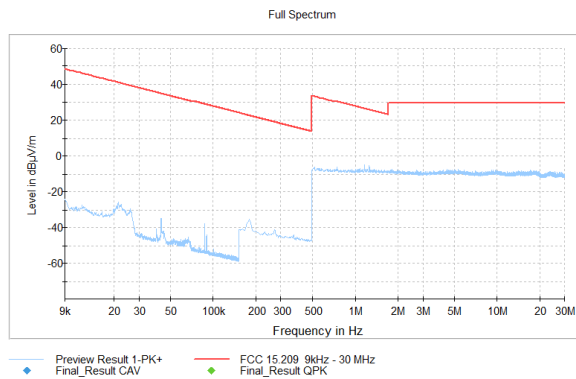


Figure 10: MID channel (9 kHz – 30 MHz)

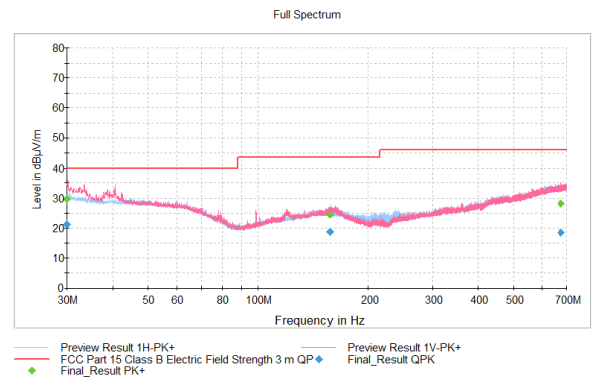


Figure 11: MID channel (30 MHz – 700 MHz)

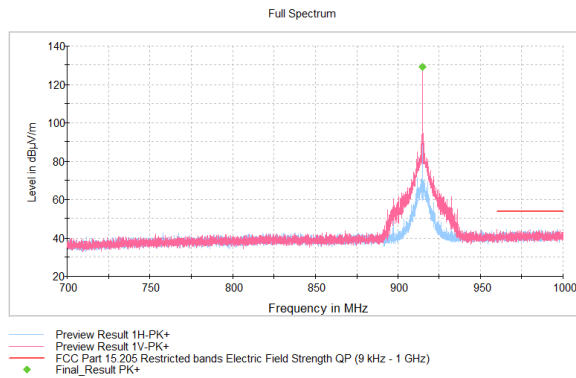


Figure 12: MID channel (700 – 1000 MHz)

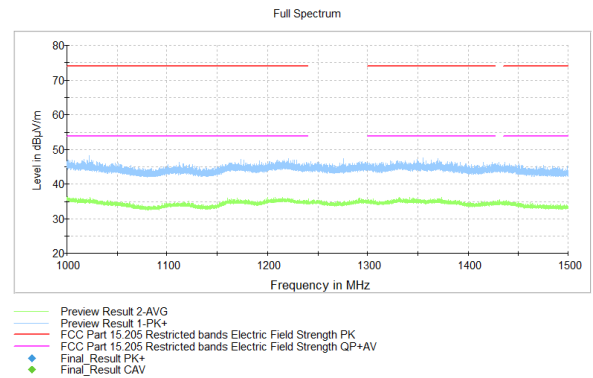


Figure 13: MID channel (1 – 1.5 GHz)

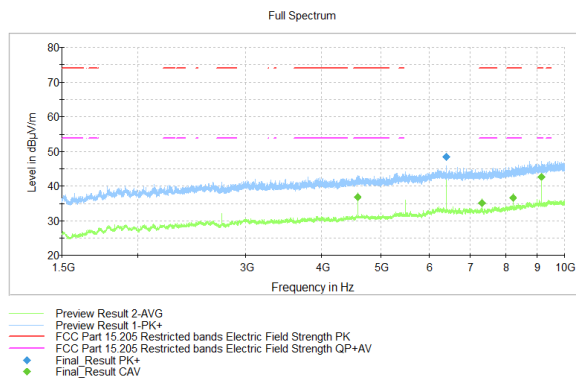


Figure 14: MID channel (1.5 – 10 GHz)

Unwanted Emissions (radiated)

Table 6: Peak results MID channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
914.860000	129.09	---	---	1000.0	120.000	100.0	V	169.0	47.8
6403.875000	48.47	109.09*)	60.62	1000.0	1000.000	100.0	V	344.0	10.5

*) -20 dBc

Table 7: Average results MID channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4574.225000	36.76	54.00	17.24	1000.0	1000.000	245.0	V	346.0	7.5
7318.875000	35.10	54.00	18.90	1000.0	1000.000	100.0	V	350.0	11.7
8233.700000	36.59	54.00	17.41	1000.0	1000.000	191.0	V	334.0	12.2
9148.525000	42.76	54.00	11.24	1000.0	1000.000	100.0	V	334.0	14.2

Table 8: Quasi-peak results MID channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.000000	21.21	40.00	18.79	1000.0	120.000	239.0	V	225.0	16.9
157.950000	18.67	43.50	24.83	1000.0	120.000	100.0	V	340.0	18.5
675.630000	18.48	46.00	27.52	1000.0	120.000	212.0	V	338.0	27.8

Unwanted Emissions (radiated)

Results HIGH channel whip antenna

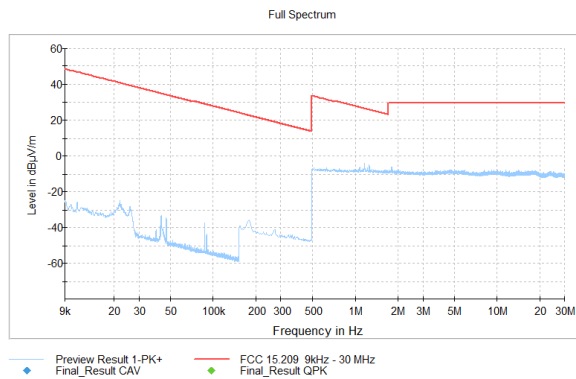


Figure 15: HIGH channel (9 kHz – 30 MHz)

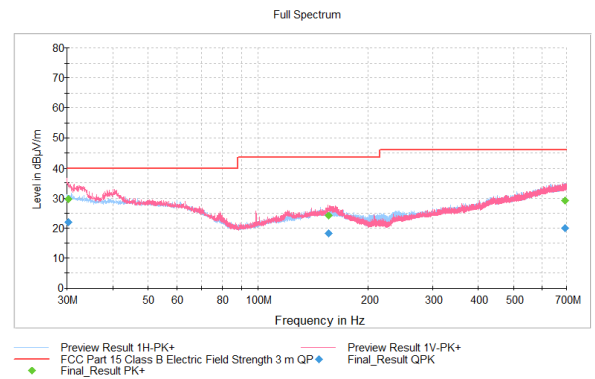


Figure 16: HIGH channel (30 MHz – 700 MHz)

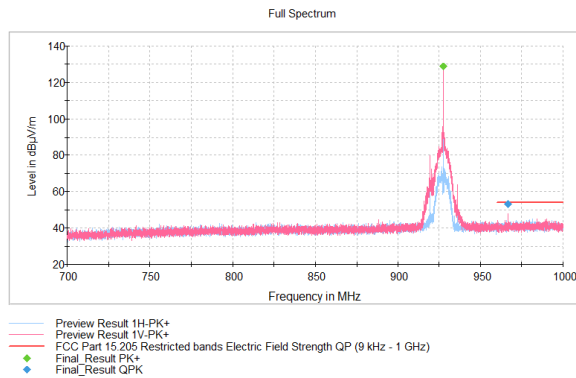


Figure 17: HIGH channel (700 – 1000 MHz)

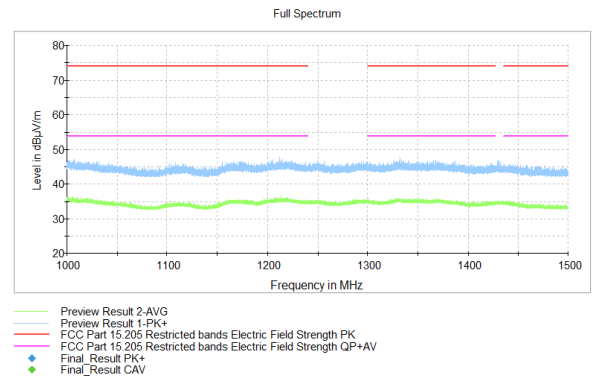


Figure 18: HIGH channel (1 – 1.5 GHz)

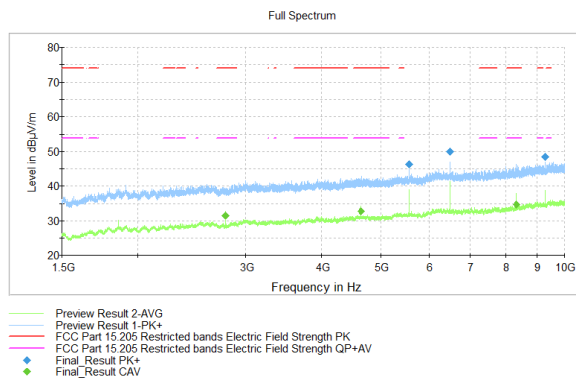


Figure 19: HIGH channel (1.5 – 10 GHz)

Unwanted Emissions (radiated)

Table 9: Peak results HIGH channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
927.580000	128.84	---	---	1000.0	120.000	159.0	V	166.0	48.1
5565.525000	46.23	108.84*)	62.61	1000.0	1000.000	205.0	V	136.0	8.6
6493.100000	50.00	108.84*)	58.84	1000.0	1000.000	100.0	H	44.0	10.6
9275.800000	48.37	108.84*)	60.47	1000.0	1000.000	127.0	V	38.0	14.4

*) -20 dBc

Table 10: Average results HIGH channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2782.850000	31.61	54.00	22.39	1000.0	1000.000	166.0	V	186.0	4.6
4637.975000	32.79	54.00	21.21	1000.0	1000.000	205.0	V	0.0	7.6
8348.250000	34.70	54.00	19.30	1000.0	1000.000	146.0	V	12.0	12.6

Table 11: Quasi-peak results HIGH channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.320000	21.84	40.00	18.16	1000.0	120.000	139.0	V	312.0	16.9
156.450000	18.27	43.50	25.23	1000.0	120.000	100.0	V	325.0	18.6
693.800000	19.88	46.00	26.12	1000.0	120.000	112.0	H	106.0	28.2
966.590000	53.32	53.98	0.66	1000.0	120.000	166.0	V	171.0	48.2

Unwanted Emissions (radiated)

Radiated lower and upper band edge results whip antenna

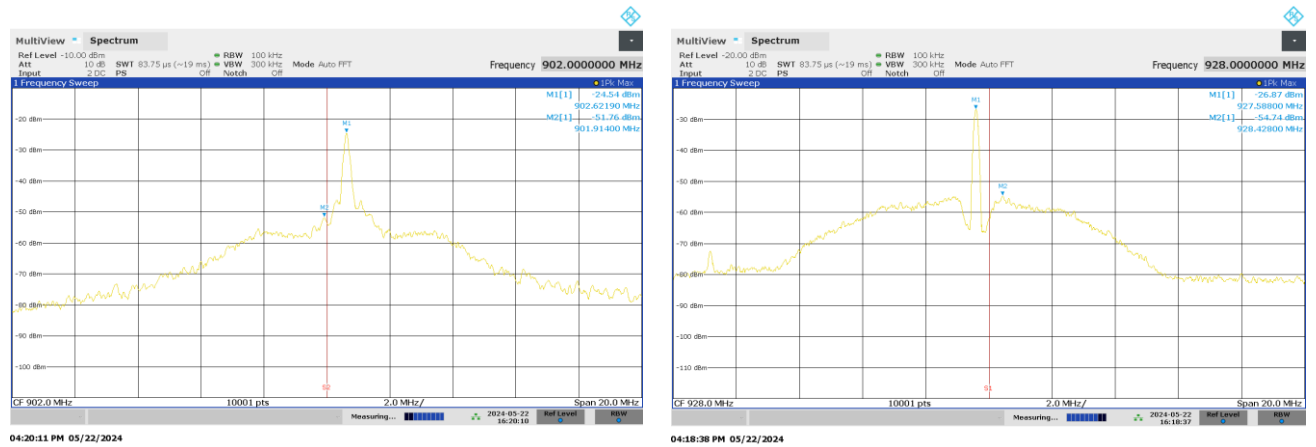


Figure 20: Radiated lower and upper band edge results whip antenna

The correction factor in the final result table contains the sum of the transducers (antenna + amplifier + cables). The result value is the measured value corrected with the correction factor.

Unwanted Emissions (radiated)

Results LOW channel Yagi antenna

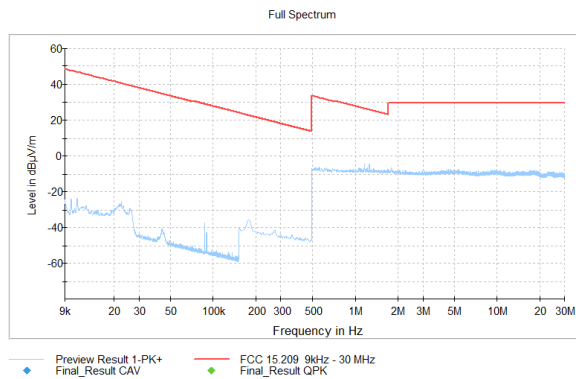


Figure 21: LOW channel (9 kHz – 30 MHz)

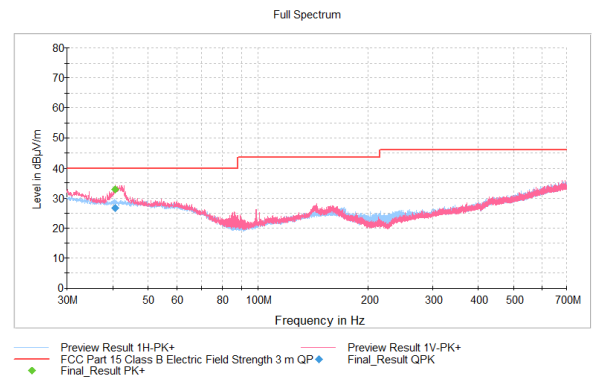


Figure 22: LOW channel (30 MHz – 700 MHz)

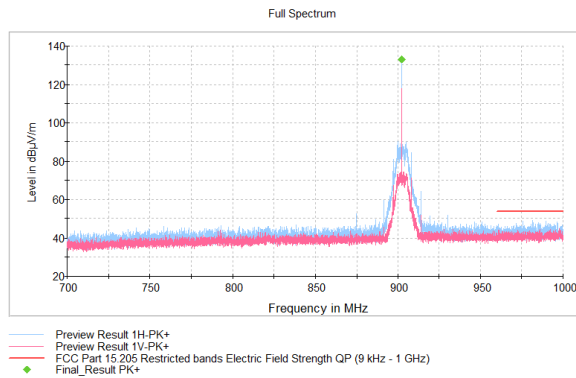


Figure 23: LOW channel (700 – 1000 MHz)

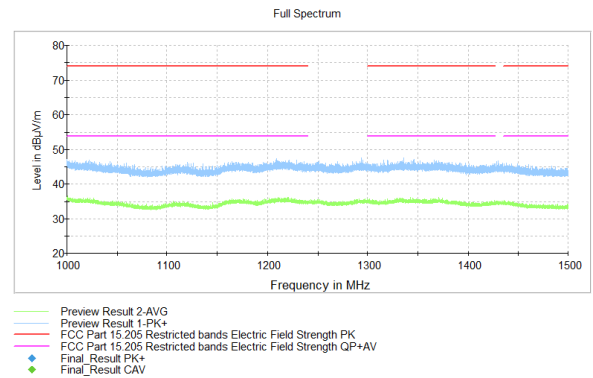


Figure 24: LOW channel (1 – 1.5 GHz)

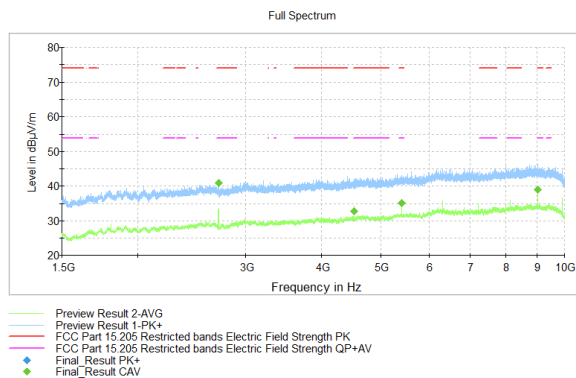


Figure 25: LOW channel (1.5 – 10 GHz)

Unwanted Emissions (radiated)

Table 12: Peak results LOW channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
902.620000	133.19	---	---	1000.0	120.000	159.0	H	349.0	47.5

Table 13: Average results LOW channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2707.850000	40.84	54.00	13.16	1000.0	1000.000	100.0	H	119.0	4.7
4513.025000	32.85	54.00	21.15	1000.0	1000.000	205.0	V	312.0	6.9
5415.725000	35.10	54.00	18.90	1000.0	1000.000	100.0	H	103.0	8.3
9026.125000	38.86	54.00	15.14	1000.0	1000.000	166.0	H	297.0	14.2

Table 14: Quasi-peak results LOW channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.710000	26.72	40.00	13.28	1000.0	120.000	119.0	V	115.0	17.3

Unwanted Emissions (radiated)

Results MID channel Yagi antenna

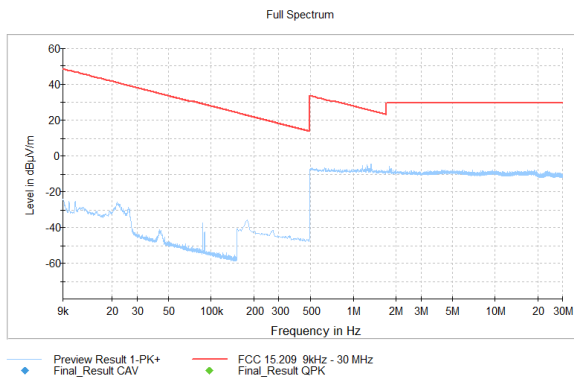


Figure 26: MID channel (9 kHz – 30 MHz)

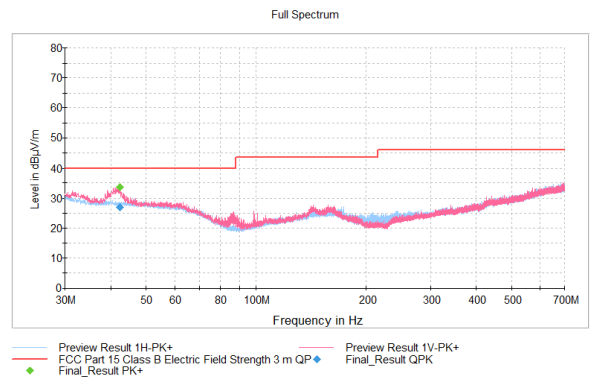


Figure 27: MID channel (30 MHz – 700 MHz)

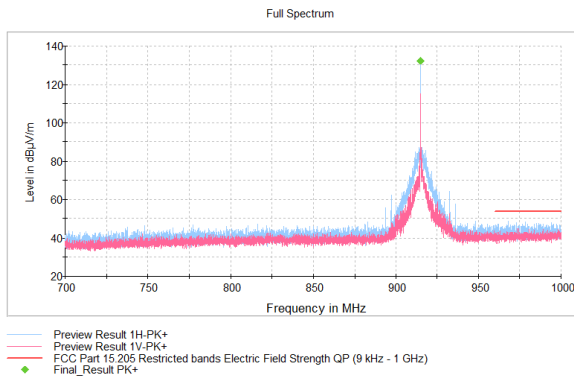


Figure 28: MID channel (700 – 1000 MHz)

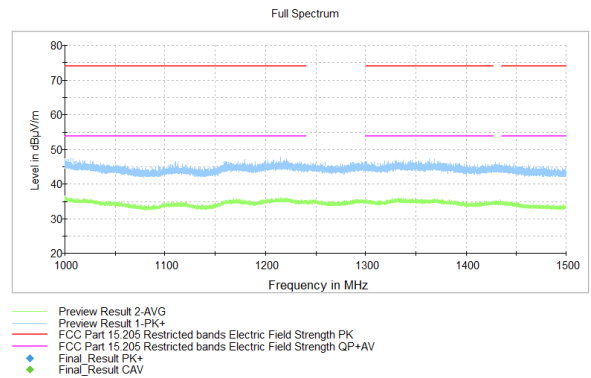


Figure 29: MID channel (1 – 1.5 GHz)

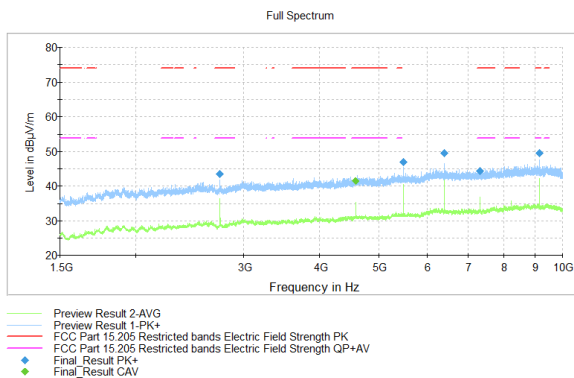


Figure 30: MID channel (1.5 – 10 GHz)

Unwanted Emissions (radiated)

Table 15: Peak results MID channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
914.840000	132.57	---	---	1000.0	120.000	152.0	H	351.0	47.8
2744.800000	43.53	74.00	30.47	1000.0	1000.000	186.0	H	124.0	4.9
5489.250000	46.88	112.57*)	65.69	1000.0	1000.000	107.0	H	102.0	8.6
6403.875000	49.49	112.57*)	63.08	1000.0	1000.000	304.0	V	327.0	10.5
7319.175000	44.34	74.00	29.66	1000.0	1000.000	186.0	V	188.0	11.7
9148.725000	49.55	74.00	24.45	1000.0	1000.000	205.0	H	52.0	14.2

*) -20 dBc

Table 16: Average results MID channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4574.225000	41.43	54.00	12.57	1000.0	1000.000	400.0	V	339.0	7.5

Table 17: Quasi-peak results MID channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.260000	26.87	40.00	13.13	1000.0	120.000	112.0	V	14.0	17.4

Unwanted Emissions (radiated)

Results HIGH channel Yagi antenna

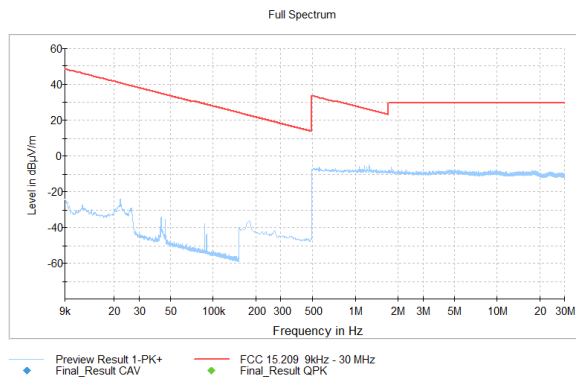


Figure 31: HIGH channel (9 kHz – 30 MHz)

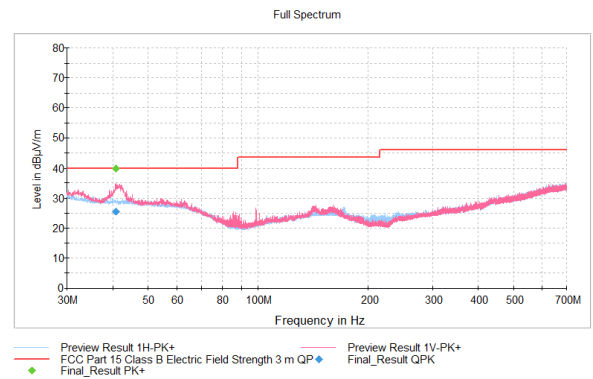


Figure 32: HIGH channel (30 MHz – 700 MHz)

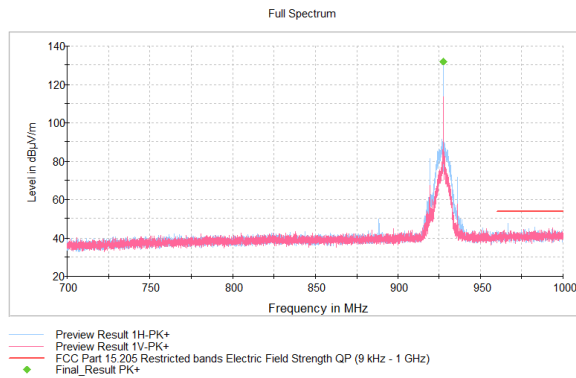


Figure 33: HIGH channel (700 – 1000 MHz)

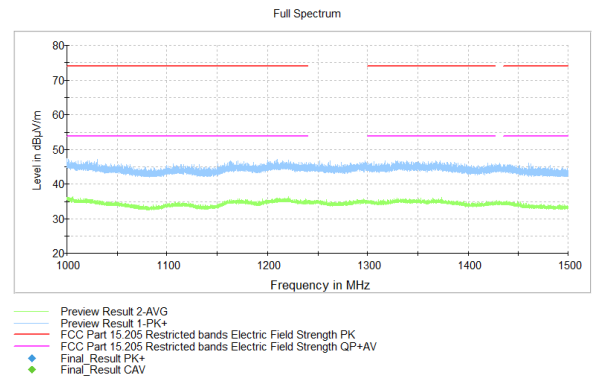


Figure 34: HIGH channel (1 – 1.5 GHz)

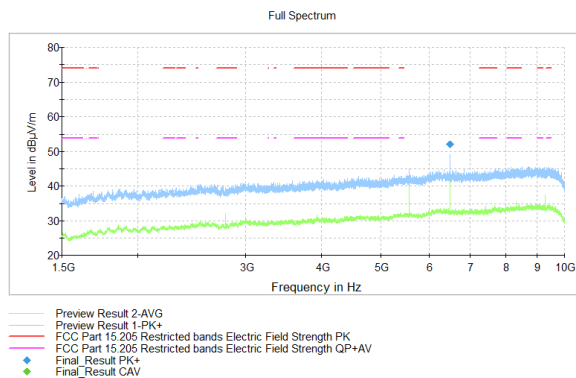


Figure 35: HIGH channel (1.5 – 10 GHz)

Unwanted Emissions (radiated)

Table 18: Peak results HIGH channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
927.580000	132.07	---	---	1000.0	120.000	159.0	H	351.0	48.1
6493.100000	51.99	112.07*)	60.08	1000.0	1000.000	100.0	V	332.0	10.6

*) -20 dBc

Table 19: Quasi-peak results HIGH channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.760000	25.58	40.00	14.42	1000.0	120.000	119.0	V	92.0	17.2

Unwanted Emissions (radiated)

Radiated lower and upper band edge results Yagi antenna

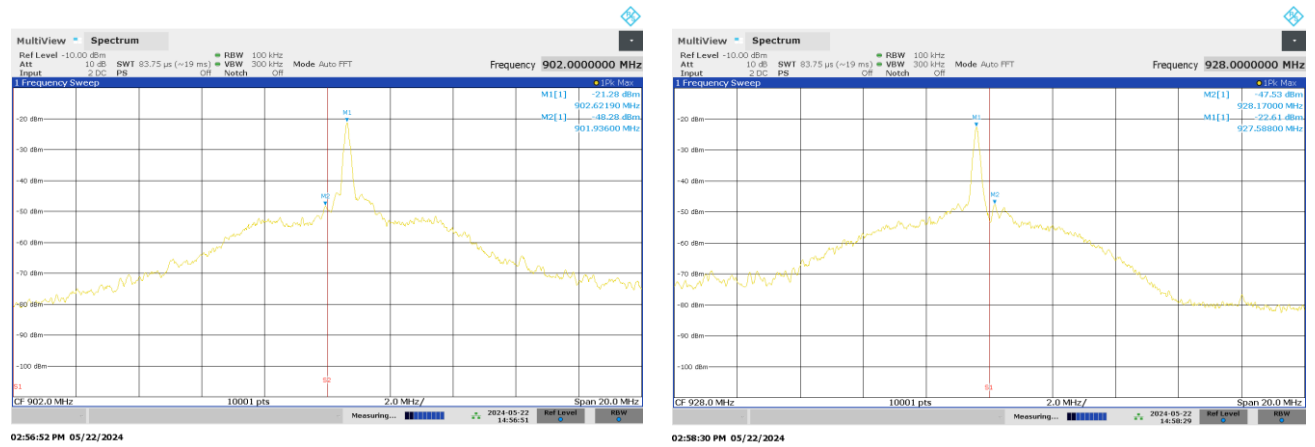


Figure 36: Radiated lower and upper band edge results Yagi antenna

The correction factor in the final result table contains the sum of the transducers (antenna + amplifier + cables). The result value is the measured value corrected with the correction factor.

Band-Edge Measurement and Unwanted Emissions (conducted)

Band-Edge Measurement and Unwanted Emissions (conducted)

Standard: ANSI C63.10 (2013)
Tested by: LAS
Date: 30 May 2024
Temperature: 21 °C
Humidity: 47 %RH
Measurement uncertainty: ± 2.87 dB Level of confidence 95 % (k = 2)

FCC Rule: 15.247(d), 15.205(a), 15.209(a)
RSS-247 3.3, 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test results

Table 20: Band edge attenuation

Band Edge Attenuation	
Lower Band Edge	Upper Band Edge
-28.48	-27.34
Limit: -20 dBc	

Band-Edge Measurement and Unwanted Emissions (conducted)

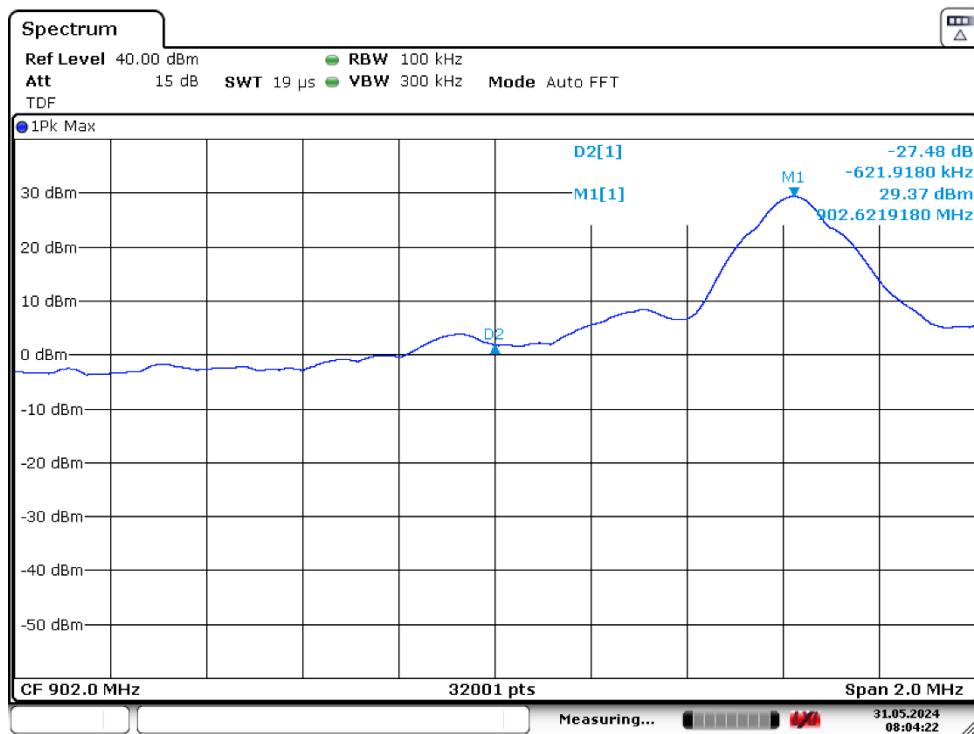


Figure 37: Lower Band-Edge

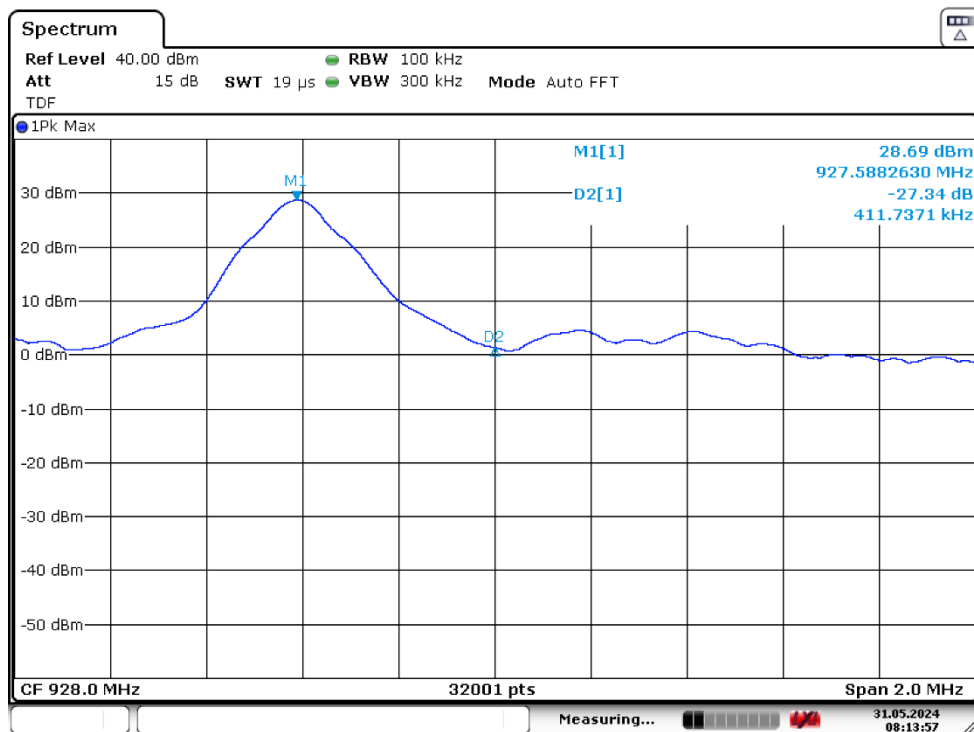


Figure 38: Upper Band-Edge

Band-Edge Measurement and Unwanted Emissions (conducted)

Unwanted emissions LOW channel

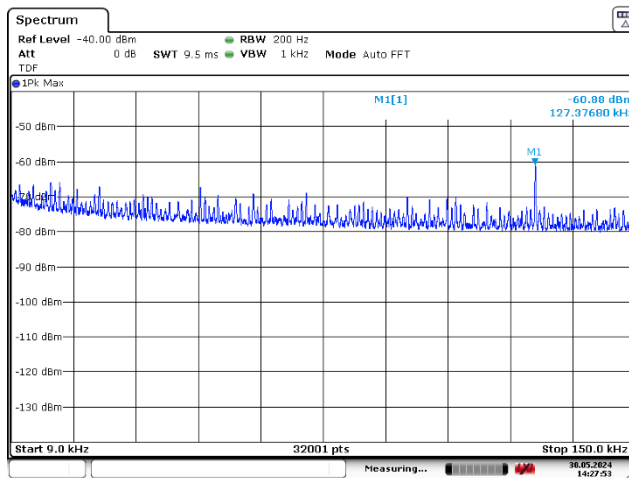


Figure 39: TX LOW channel (9 kHz – 150 kHz)

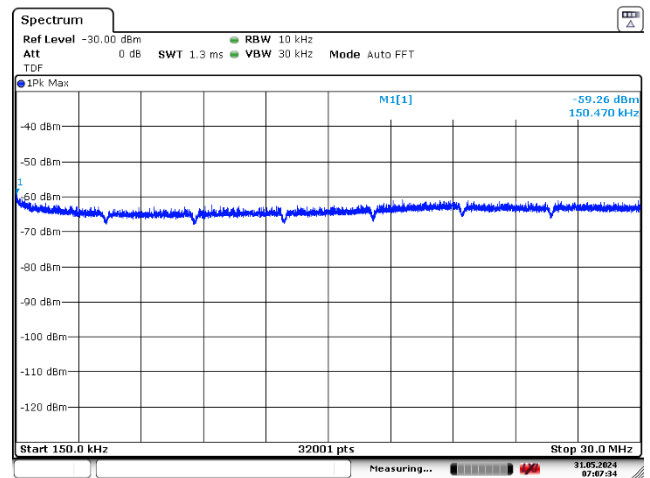


Figure 40: TX LOW channel (150 kHz – 30 MHz)

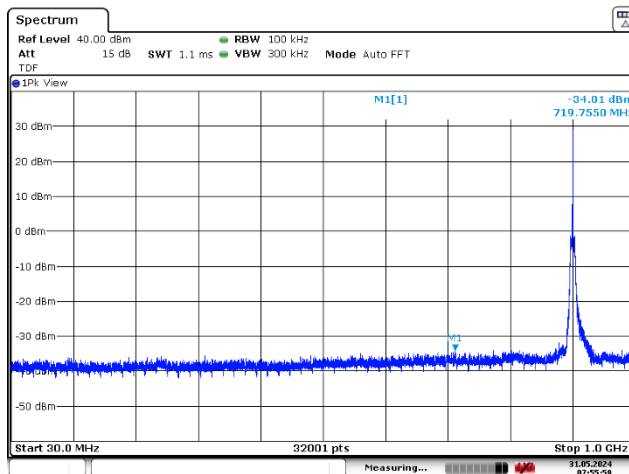


Figure 41: TX LOW channel (30 MHz – 1 GHz)

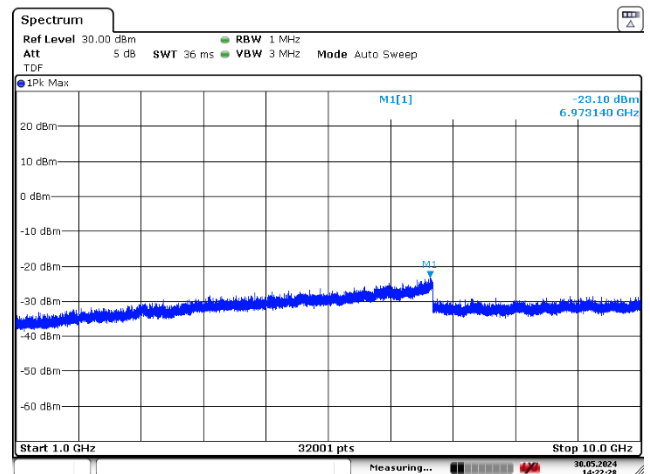


Figure 42: TX LOW channel (1 GHz – 10 GHz)

Band-Edge Measurement and Unwanted Emissions (conducted)

Unwanted Emissions MID channel

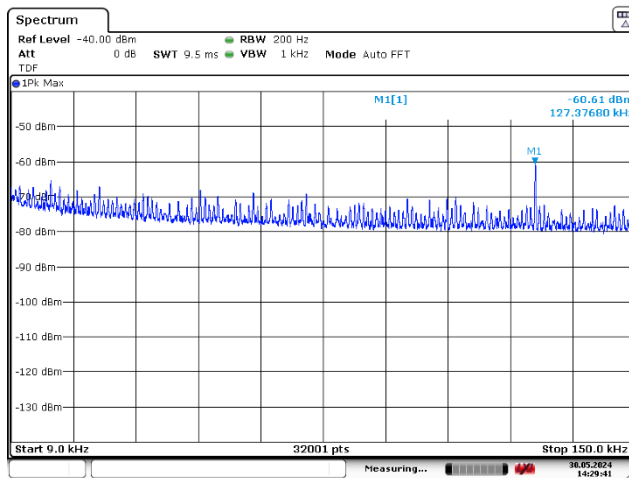


Figure 43: TX MID channel (9 kHz – 150 kHz)

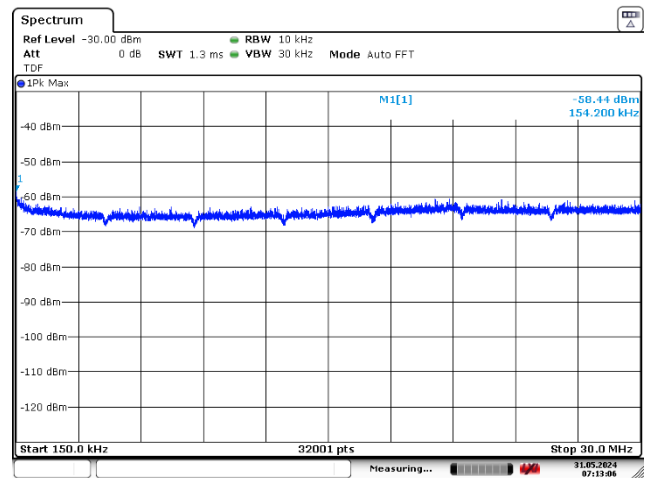


Figure 44: TX MID channel (150 kHz – 30 MHz)

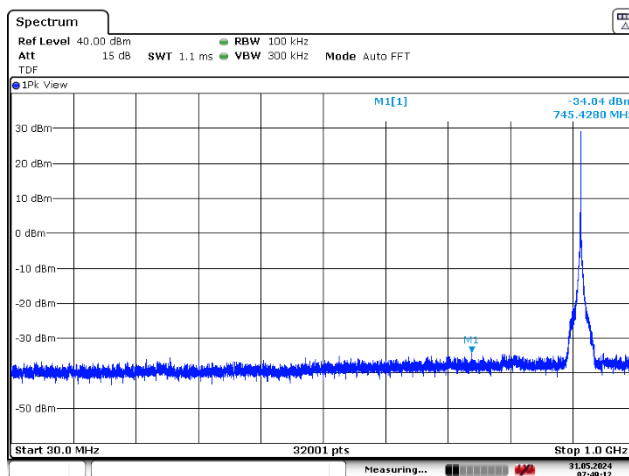


Figure 45: TX MID channel (30 MHz – 1 GHz)

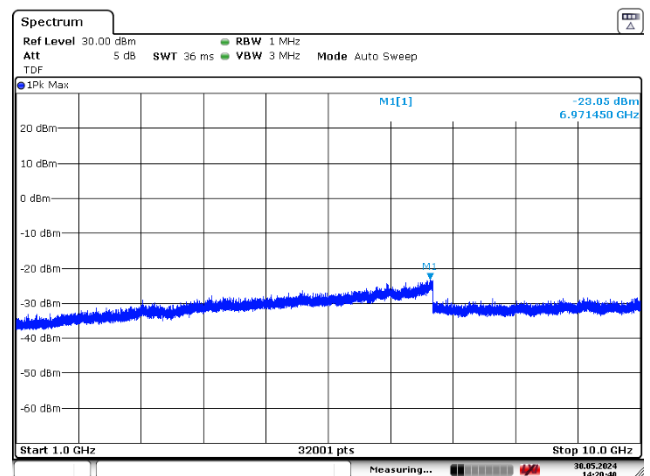


Figure 46: TX MID channel (1 GHz – 10 GHz)

Band-Edge Measurement and Unwanted Emissions (conducted)

Unwanted Emissions HIGH channel

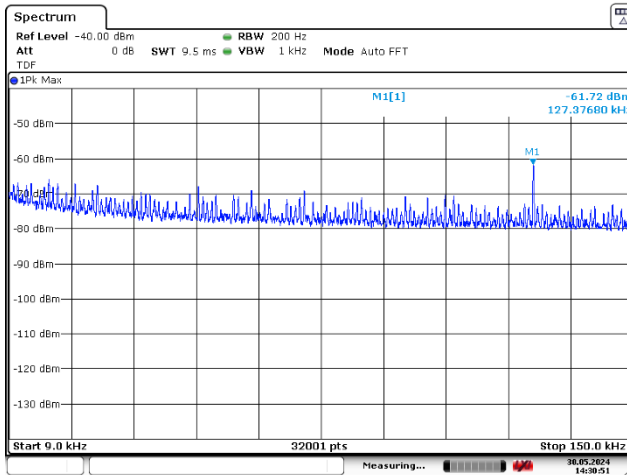


Figure 47: TX HIGH channel (9 kHz – 150 kHz)

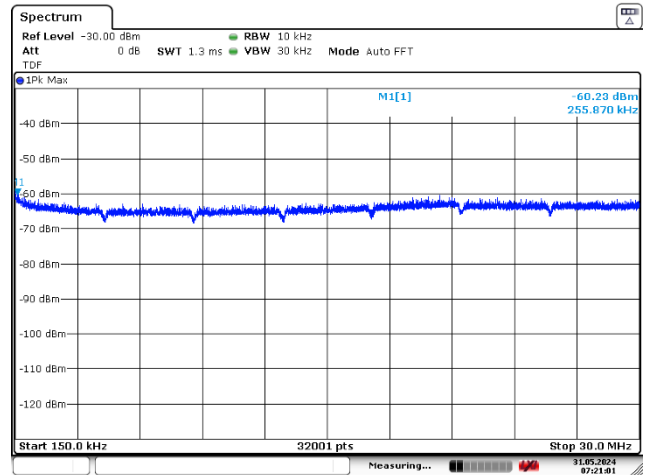


Figure 48: TX HIGH channel (150 kHz – 30 MHz)

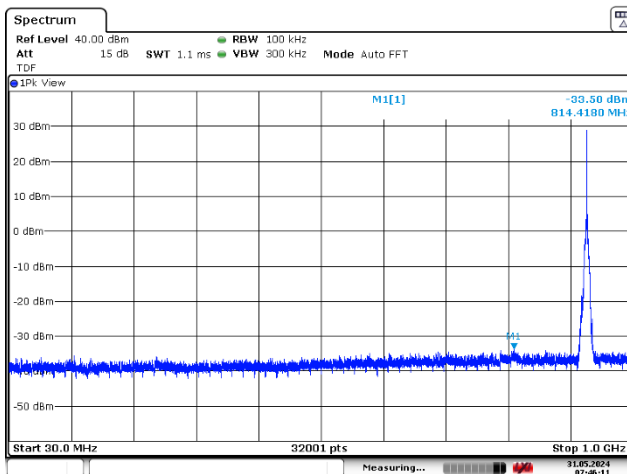


Figure 49: TX HIGH channel (30 MHz – 1 GHz)

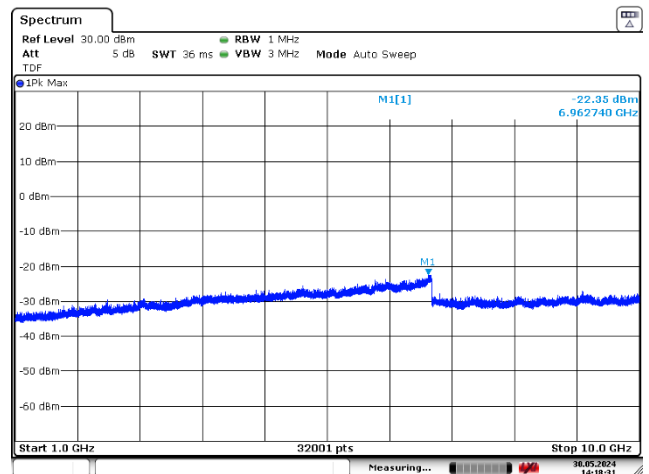


Figure 50: TX HIGH channel (1 GHz – 10 GHz)

TEST EQUIPMENT

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
ANTENNA	EMCO	3117, emi 1-18GHz	inv. 7293	2022-06-16	2024-06-16
ANTENNA	ROHDE & SCHWARZ	HFH2-Z2 , 335.4711.52	inv. 8013	2022-10-25	2024-10-25
ANTENNA	SCHWARZBECK	VULB 9168	inv. 8911	2022-11-29	2024-11-29
ANTENNA MAST	MATURO	TAM 4.0E	inv. 10181	NA	NA
ATTENUATOR	PASTERNAK	PE 7004-4 (4dB)	inv. 10126	2024-02-16	2025-02-16
ATTENUATOR	HUBER&SUHNER	6806.17.B (6dB)	sn. A101	2023-01-04	2025-01-04
ATTENUATOR	HUBER&SUHNER	6810.17.B (10dB)	sn. A102	2023-01-04	2025-01-04
ATTENUATOR	NARDA	757 C – 20 dB	sn. A111	2023-07-13	2025-07-13
ATTENUATOR	NARDA	771 C - 20 dB	sn. A116	2023-01-04	2025-01-04
ATTENUATOR	PASTERNAK	10 dB, DC-40 GHz	sn. A1	2023-03-20	2025-03-20
FILTER	WAINWRIGHT	HP, WHKX1.0/15G-10SS	inv:8267	2023-01-09	2025-01-09
FILTER	WAINWRIGHT	HP, WHKX1.5/15G-12SS	inv. 10608	2023-01-09	2025-01-09
FILTER	WAINWRIGHT	LP, WLKS700-9SS	inv. 10606	2023-01-09	2025-01-09
CABLE	SUHNER	SUCOFLEX 126E 1-18GHz	inv. C137	2024-04-05	2025-04-05
CABLE	SUHNER	SUCOTEST	inv. C051	1)	
CABLE	SUHNER	SUCOTEST	inv. C120	2023-07-13	2025-07-13
COAX CHAIN K5 EMI < 1GHz	-	C053+FP3AirC+C138	-	2024-03-28	2025-03-28
COAX CHAIN K5 EMI 1GHz-26.5GHz	-	C135+C149	-	2024-03-28	2025-03-28
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW26	inv. 10679	2023-12-15	2024-12-15
SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSV40	inv. 9093	2023-06-16	2024-06-19
MAST & TURNTABLE CONTROLLER	MATURO	NCD	inv. 10183	NA	NA
POWER SUPPLY	DELTA	SM 130-25D	inv. 10406	-	-
POWER SUPPLY	THANDAR	PL330TP	inv. 9787	NCR	NCR
RF PREAMPLIFIER	CIAO	CA118-3123	inv. 10278	2023-09-15	2024-09-15
TEMPERATURE/ HUMIDITY SENSOR	EDS	OW-ENV-TH, K5 SAC	inv. 10517	2023-10-30	2024-10-30
TEMPERATURE/ HUMIDITY METER	VAISALA	HMT 333	inv:8638	2023-09-08	2024-09-08
TEST SOFTWARE	ROHDE & SCHWARZ	EMC-32	-	-	-
TURNTABLE	MATURO	DS430 UPGRADED	inv. 10182	NA	NA

1) The equipment was calibrated for this test case

NCR = No calibration required

END OF REPORT