

Test Report

REP105950

Date of issue: July 17, 2025

Applicant:

Leonardo S.p.a

Piazza Montegrappa 4 Roma, 00195 Italy

Product:

Compact TETRA Base Station

Model:

DTA Node 470 L/2 C 2D

FCC ID:

2ATWB-DTAT47L22C01

Specifications:

- ◆ FCC 47 CFR Part 90 Subpart I
Private Land Mobile Radio Services

Test location

Company name	Nemko S.p.A.
Address	Via Del Carroccio, 4
City	Biassono
Province	MB
Postal code	20853
Country	Italy
Telephone	+39 039 220 12 01
Facsimile	+39 039 220 12 21
Website	www.nemko.com
Site number	FCC: 682159

Tested by	Daniele Guarnone
Test engineer signature	
Reviewed by	Paolo Barbieri
Reviewer signature	

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko S.p.A. ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Leonardo S.p.a
Address	Piazza Montegrappa 4 Roma, 00195 Italy
City	Roma
Province/State	RM
Postal/Zip code	00195
Country	Italy

1.2 Test specifications

47 CFR Part 90 Subpart I (July 9, 2025)	Private Land Mobile Radio Services
FCC 11-63	Federal Communications Commission

1.3 Test methods

ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
FCC 47 CFR Part 2, Subpart J	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems
ANSI C63.10 v2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

1.4 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.5 Exclusions

None

1.6 Test report revision history

Revision #	Details of changes made to test report
REP105950	Original report issued

Section 2. Summary of test results

2.1 FCC Part 90 test results

Part	Test description	Verdict
90.205(a)(b)	Power and antenna height limits.	Pass
90.207	Modulation characteristics	Not applicable
90.209	Bandwidth Limitations	Pass
90.210(a)	Emission limits, emission mask	Not applicable
90.210(a)	Emission limits, conducted method	Pass
90.210(a)	Emission limits, radiated method	Pass
90.221	Adjacent channel power limits.	Pass
90.213(a)	Transmitter frequency stability	Pass
90.214	Transient frequency behavior.	Not applicable

Notes: None

Section 3. Equipment under test (EUT) details

3.1 Sample information

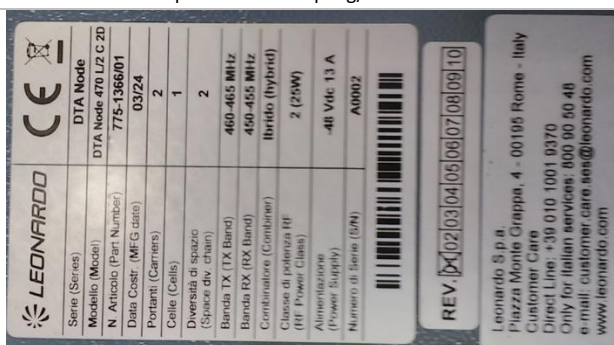
Receipt date	July 11, 2025
Nemko sample ID number	A0002

3.2 EUT information

Product name	Compact TETRA Base Station
Model	DTA Node 470 L/2 C 2D
Model variant	--
Serial number	A0002
Part number	775-1366/01
Software and/or firmware information	baseline SW = 1.0.3.15

3.3 Technical information

Frequency band	460 MHz ÷ 465 MHz
Frequency Min (MHz)	460.0 MHz
Frequency Max (MHz)	465 MHz
RF power Max (W), Conducted	44.21 dBm (TX1), 44.21 dBm (TX2)
Field strength, Units @ distance	N/A
Measured BW (kHz) (6 dB / 20 dB)	--
Measured BW (kHz) (99%)	21.2 kHz
Calculated BW (kHz), as per TRC-43	N/A
Type of modulation	$\pi/4$ DQPSK
Emission classification (F1D, G1D, D1D)	21K2D1W
Transmitter spurious, Units @ distance	-57.7 dBm, 925 MHz, 3 m
Power requirements	2 X (48 Vdc, 13 A)
Antenna information	The EUT uses a unique antenna coupling/ non-detachable antenna to the intentional radiator.

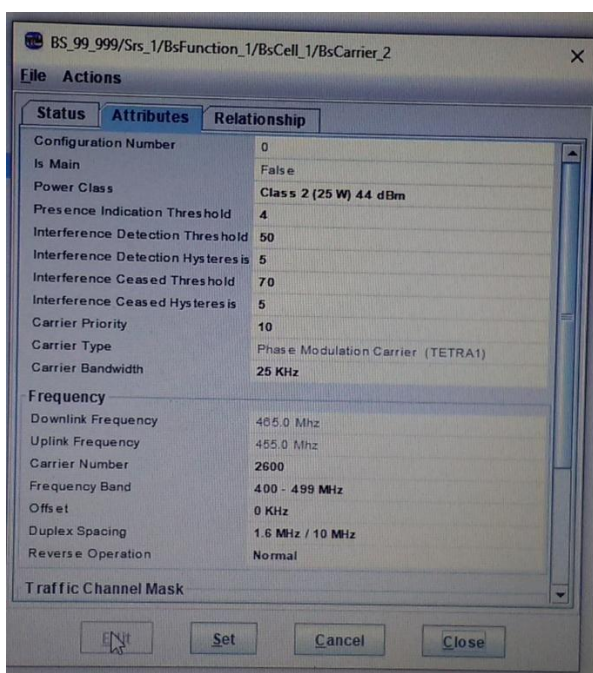
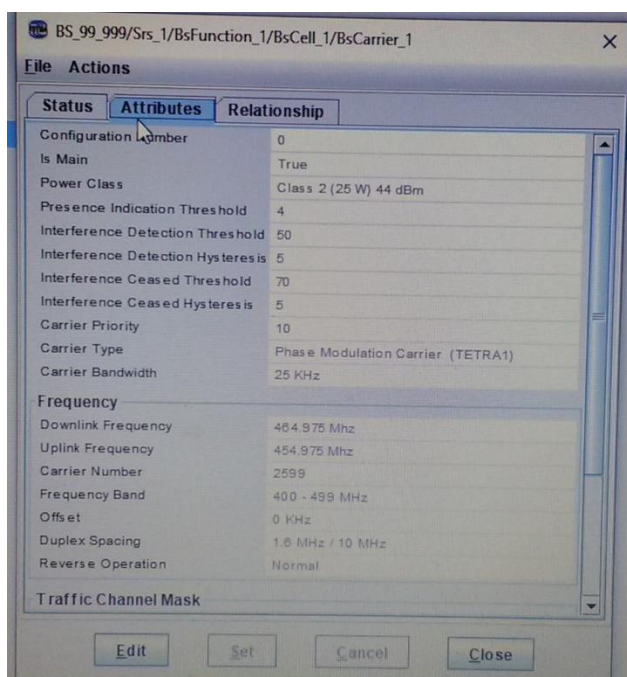
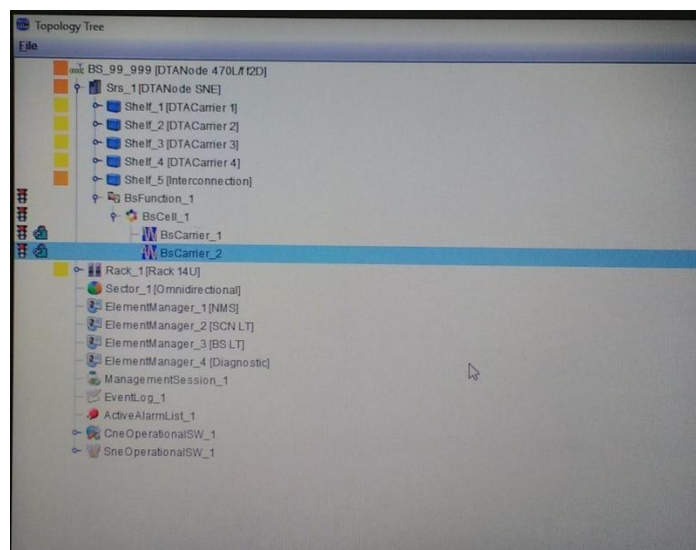
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3.4 Product description and theory of operation

The equipment under test is a TETRA radio base station (BS).

The radio base station provides the interface between the radio peripherals (hand-portable, vehicular station, fixed station, etc.) located within the area covered by the BS, and the Switching and Control Node (SCN). The interface to the mobiles is obtained by radio coverage through the TETRA air interface protocol, as defined in the TETRA ETSI standard.

3.5 EUT exercise details



3.6 EUT setup diagram

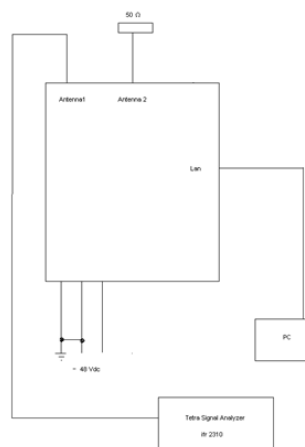


Figure 3.6-1: Setup diagram: conducted measurements

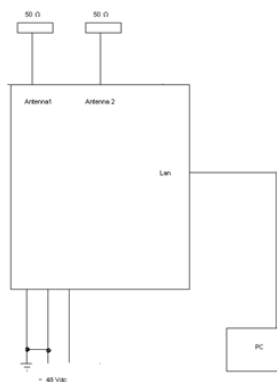


Figure 3.6-2: Setup diagram: radiated measurements

3.7 EUT sub assemblies

Table 3.7-1: EUT sub assemblies

Description	Brand name	Model/Part number	Serial number
--	--	--	--

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	18–33 °C
Relative humidity	20–70 %
Air pressure	860–1060 mbar

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

The following instruments are used to monitor the environmental conditions:

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Data logger	Testo	175-H2	20013013/305	2025-01	2027-01
Data logger	Testo	175-H2	20013013/305	2025-01	2027-01
Barometer	Castle	GBP 3300	072015	2025-03	2026-03

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

The measurement uncertainty was calculated for each test and quantity listed in this test report, according to CISPR 16-4-2, ETSI TR 100 028-1, ETSI TR 100 028-2 and other specific test standards and is documented in Nemko Spa working manuals WML1002 and WML0078.

The assessment of conformity for each test performed on the equipment is performed not taking into account the measurement uncertainty. The two following possible verdicts are stated in the report:

P (Pass) - The measured values of the equipment respect the specification limit at the points tested. The specific risk of false accept is up to 50% when the measured result is close to the limit.

F (Fail) - One or more measured values of the equipment do not respect the specification limit at the points tested. The specific risk of false reject is up to 50% when the measured result is close to the limit.

Hereafter Nemko's measurement uncertainties are reported:

EUT	Type	Test	Range	Measurement Uncertainty	Notes
Transmitter	Conducted	Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)
		Carrier power RF Output Power	0.009 MHz ÷ 30 MHz	1.1 dB	(1)
			30 MHz ÷ 18 GHz	1.5 dB	(1)
			18 MHz ÷ 40 GHz	3.0 dB	(1)
			40 MHz ÷ 140 GHz	5.0 dB	(1)
		Adjacent channel power	1 MHz ÷ 18 GHz	1.4 dB	(1)
		Conducted spurious emissions	0.009 MHz ÷ 18 GHz	3.0 dB	(1)
			18 GHz ÷ 40 GHz	4.2 dB	(1)
			40 GHz ÷ 220 GHz	6.0 dB	(1)
		Intermodulation attenuation	1 MHz ÷ 18 GHz	2.2 dB	(1)
		Attack time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Attack time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Release time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Release time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Transient behaviour of the transmitter– Transient frequency behaviour	1 MHz ÷ 18 GHz	0.2 kHz	(1)
		Transient behaviour of the transmitter – Power level slope	1 MHz ÷ 18 GHz	9%	(1)
		Frequency deviation - Maximum permissible frequency deviation	0.001 MHz ÷ 18 GHz	1.3%	(1)
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001 MHz ÷ 18 GHz	0.5 dB	(1)
		Dwell time	-	3%	(1)
		Hopping Frequency Separation	0.01 MHz ÷ 18 GHz	1%	(1)
		Occupied Channel Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)
		Modulation Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)
	Radiated	Radiated spurious emissions	0.009 MHz ÷ 26.5 GHz	6.0 dB	(1)
			26.5 GHz ÷ 66 GHz	8.0 dB	(1)
			66 GHz ÷ 220 GHz	10 dB	(1)
		Effective radiated power transmitter	10 kHz ÷ 26.5 GHz	6.0 dB	(1)
			26.5 GHz ÷ 66 GHz	8.0 dB	(1)
			66 GHz ÷ 220 GHz	10 dB	(1)

NOTES:

(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95 %

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-09	2025-09
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2025-01	2026-01
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-10	2027-10
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-05	2026-05
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2025-01	2026-01
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
3m Semi anechoic chamber	Comtest	SAC-3	1711-150	2024-09	2026-09
Software turntable and mast	Maturo	mcApp	8.1.0.5410	NCR	NCR
Coaxial cable	Rosenberger+Huber-Suhner	RE01+RE02	1.654+1.655	2025-01	2026-01
10m Semi anechoic chamber	Comtest	SAC-10	530		
Attenuator	Bird Electronic	500-WA-MFN-30	0124	2024-12	2025-12
Coaxial cable	Rosenberger+Huber-Suhner	RE03+RE04	1.510+1.511	2025-01	2026-01
Coaxial cable	Rosenberger+Huber-Suhner	RE04+RE05	1.511+1.512	2025-01	2026-01
Coaxial cable	Rosenberger	ST.ALO-02	1.650	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-01	1.649	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-09	1.648	2025-01	2026-01
Camera climatica	Tabai Espec	PSL 4F	5102130		

Notes: NCR - no calibration required, VOU - verify on use

Section 8. Testing data

8.1 FCC 90.205(a),(b) Power Limits

8.1.1 Definitions and limits

Applicants for licenses must request and use no more power than the actual power necessary for satisfactory operation. Except where otherwise specifically provided for, the maximum power that will be authorized to applicants whose license applications for new stations are filed after August 18, 1995 is as follows:

(h) 450-470 MHz.

(1) The maximum allowable station effective radiated power (ERP) is dependent upon the station's antenna HAAT and required service area and will be authorized in accordance with table 2.

Applicants requesting an ERP in excess of that listed in table 2 must submit an engineering analysis based upon generally accepted engineering practices and standards that includes coverage contours to demonstrate that the requested station parameters will not produce coverage in excess of that which the applicant requires.

(2) Applications for stations where special circumstances exist that make it necessary to deviate from the ERP and antenna heights in Table 2 will be submitted to the frequency coordinator accompanied by a technical analysis, based upon generally accepted engineering practices and standards, that demonstrates that the requested station parameters will not produce a signal strength in excess of 39 dBu at any point along the edge of the requested service area. The coordinator may then recommend any ERP appropriate to meet this condition.

(3) An applicant for a station with a service area radius greater than 32 km (20 mi) must justify the requested service area radius, which may be authorized only in accordance with table 2, note 4. For base stations with service areas greater than 80 km, all operations 80 km or less from the base station will be on a primary basis and all operations outside of 80 km from the base station will be on a secondary basis and will be entitled to no protection from primary operations.

8.1.2 Test summary

Verdict	Pass		
Tested by	Daniele Guarnone	Test date	July 15, 2025

8.1.3 Observations, settings and special notes

Test conditions

Audio input	--
Modulation	TETRA
Audio input	--
Modulation	TETRA

Test receiver settings:

Detector mode	RMS
Resolution bandwidth	> OBW
Video bandwidth	>RBW
Trace mode	Max Hold
Measurement time	Auto
H3E audio input tones (Hz)	--
3E audio input tone (Hz)	--

8.1.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-09	2025-09
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2025-01	2026-01
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-10	2027-10
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-05	2026-05
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2025-01	2026-01
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
3m Semi anechoic chamber	Comtest	SAC-3	1711-150	2024-09	2026-09
Software turntable and mast	Maturo	mcApp	8.1.0.5410	NCR	NCR
Coaxial cable	Rosenberger+Huber-Suhner	RE01+RE02	1.654+1.655	2025-01	2026-01
10m Semi anechoic chamber	Comtest	SAC-10	530		
Attenuator	Bird Electronic	500-WA-MFN-30	0124	2024-12	2025-12
Coaxial cable	Rosenberger+Huber-Suhner	RE03+RE04	1.510+1.511	2025-01	2026-01
Coaxial cable	Rosenberger+Huber-Suhner	RE04+RE05	1.511+1.512	2025-01	2026-01
Coaxial cable	Rosenberger	ST.ALO-02	1.650	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-01	1.649	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-09	1.648	2025-01	2026-01
spectrum analyzer	R&S	FSW8	101399	2025-01	2026-01
climatic chamber	ANGELANTONI	CH3900	7315	2025-02	2026-02

Notes: NCR - no calibration required, VOU - verify on use

8.1.5 Test data

Table 8.1-1: Output power measurement results

FCC outpower limit: rated power + 20% = 25 W+20%= 44.77 dBm

Carrier	Frequency, MHz	RF output power, dBm	Limit, dBm	Margin, dB
Tetra TX1	460.025	43.9	44.8	-0.9
Tetra TX1	462.500	44.2	44.8	-0.6
Tetra TX1	464.975	44.0	44.8	-0.8
Tetra TX2	460.025	43.9	44.8	-0.9
Tetra TX2	462.500	44.2	44.8	-0.6
Tetra TX2	464.975	44.0	44.8	-0.8

TABLE 2—450-470 MHz—MAXIMUM ERP/REFERENCE HAAT FOR A SPECIFIC SERVICE AREA RADIUS

	Service area radius (km)									
	3	8	13	16	24	32	40 ⁴	48 ⁴	64 ⁴	80 ⁴
Maximum ERP (w) ¹	2	100	² 500	² 500	² 500	² 500	² 500	² 500	² 500	² 500
Up to reference HAAT (m) ³	15	15	15	27	63	125	250	410	950	2700

¹ Maximum ERP indicated provides for a 39 dBu signal strength at the edge of the service area per FCC Report R-6602, Fig. 29 (See § 73.699, Fig. 10 b).

² Maximum ERP of 500 watts allowed. Signal strength at the service area contour may be less than 39 dBu.

³ When the actual antenna HAAT is greater than the reference HAAT, the allowable ERP will be reduced in accordance with the following equation: $ERP_{allow} = ERP_{max} \times (HAAT_{ref} / HAAT_{actual})$.

⁴ Applications for this service area radius may be granted upon specific request with justification and must include a technical demonstration that the signal strength at the edge of the service area does not exceed 39 dBu.

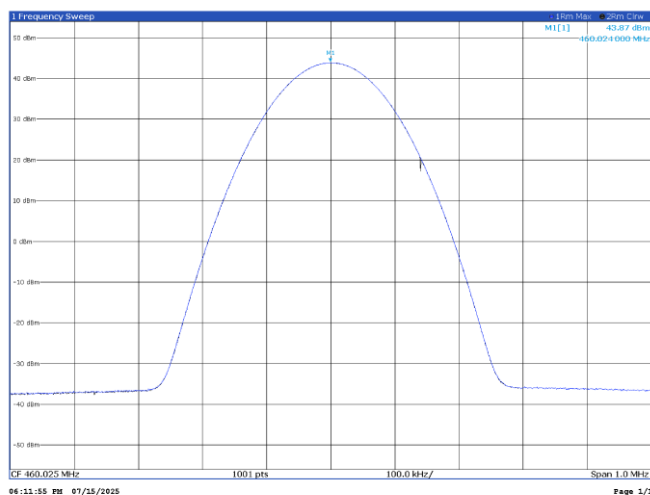


Figure 8.1-1: power TX1 low

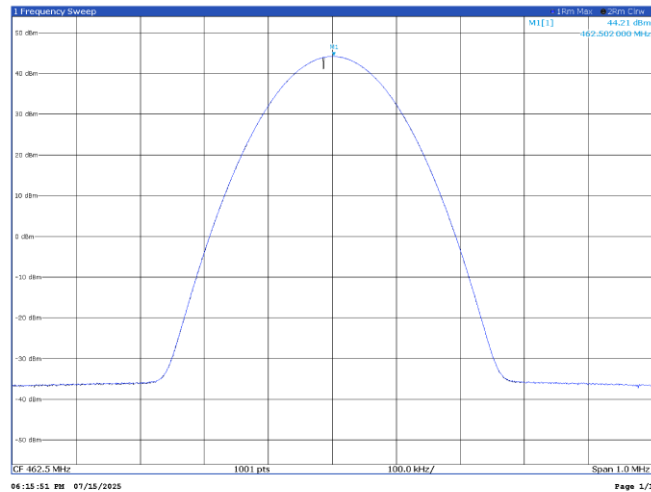


Figure 8.1-2: power TX1 mid

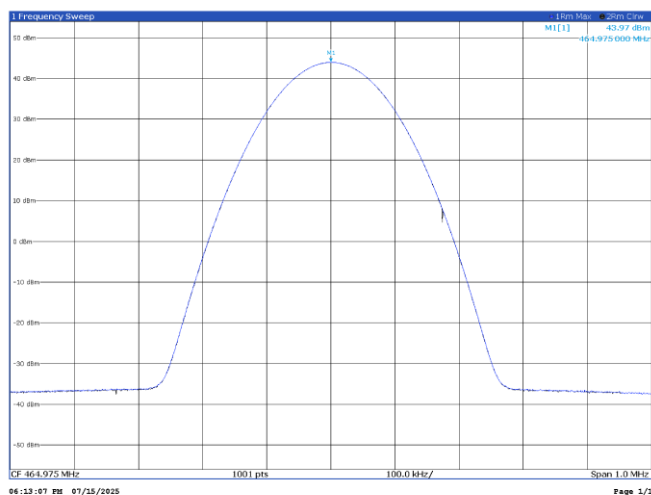


Figure 8.1-3: power TX1 high

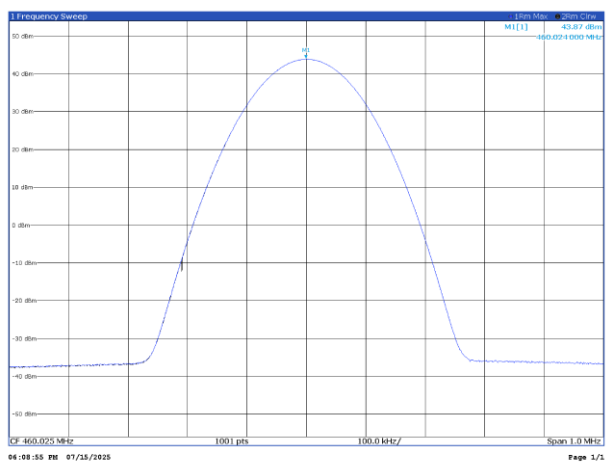


Figure 8.1-4: power TX2 low

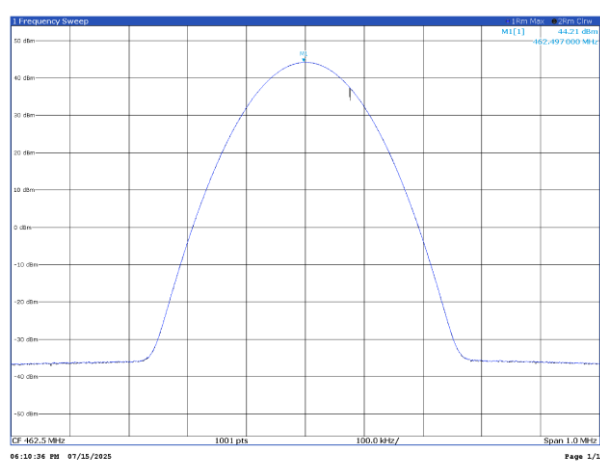


Figure 8.1-5: power TX2 mid

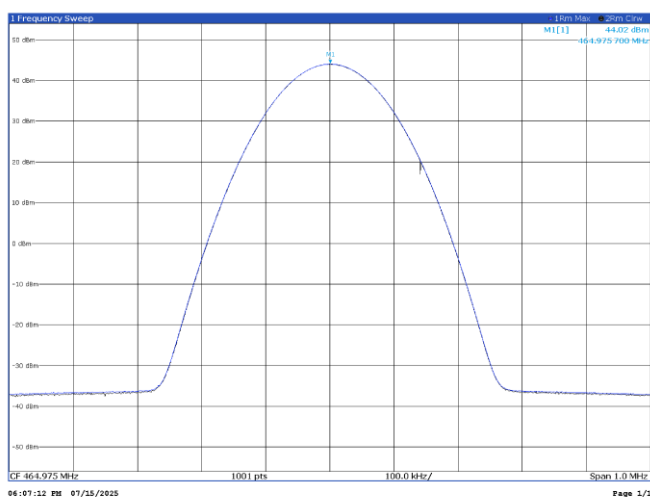


Figure 8.1-6: power TX2 high

8.2 Clause 90.209 Bandwidth limitations (*)

8.2.1 Definitions and limits

(a) Each authorization issued to a station licensed under this part will show an emission designator

(a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where § 2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

(b) The maximum authorized single channel bandwidth of emission corresponding to the type of emission specified in § 90.207 is as follows:

(1) For A1A or A1B emissions, the maximum authorized bandwidth is 0.25 kHz. The maximum authorized bandwidth for type A3E emission is 8 kHz.

(2) For operations below 25 MHz utilizing J3E emission, the bandwidth occupied by the emission shall not exceed 3000 Hz. The assigned frequency will be specified in the authorization. The authorized carrier frequency will be 1400 Hz lower in frequency than the assigned frequency. Only upper sideband emission may be used. In the case of regularly available double sideband radiotelephone channels, an assigned frequency for J3E emissions is available either 1600 Hz below or 1400 Hz above the double sideband radiotelephone assigned frequency.

(3) For all other types of emissions, the maximum authorized bandwidth shall not be more than that normally authorized for voice operations.

(4) Where a frequency is assigned exclusively to a single licensee, more than a single emission may be used within the authorized bandwidth. In such cases, the frequency stability requirements of § 90.213 must be met for each emission.

(5) Unless specified elsewhere, channel spacings and bandwidths that will be authorized in the following frequency bands are given in the following table.

TABLE 1 TO § 90.209(b)(5)—STANDARD CHANNEL SPACING/BANDWIDTH

Frequency band (MHz)	Channel spacing (kHz)	Authorized bandwidth (kHz)
Below 25 ²		
25-50	20	20
72-76	20	20
150-174	¹ 7.5	^{1 3} 20/11.25/6
216-220 ⁵	6.25	20/11.25/6
220-222	5	4
406-512 ²	¹ 6.25	^{1 3 6} 20/11.25/6
806-809/851-854	12.5	20
809-817/854-862	12.5	⁶ 20/11.25
817-824/862-869	25	⁶ 20
896-901/935-940	12.5	13.6
902-928 ⁴		
929-930	25	20
1427-1432 ⁵	12.5	12.5

¹ For stations authorized on or after August 18, 1995.

For stations authorized on or after August 18, 1995.

2 Bandwidths for radiolocation stations in the 420-450 MHz band and for stations operating in bands subject to this footnote will be reviewed and authorized on a case-by-case basis.

3 Operations using equipment designed to operate with a 25 kHz channel bandwidth will be authorized a 20 kHz bandwidth. Operations using equipment designed to operate with a 12.5 kHz channel bandwidth will be authorized a 11.25 kHz bandwidth. Operations using equipment designed to operate with a 6.25 kHz channel bandwidth will be authorized a 6 kHz bandwidth. All stations must operate on channels with a bandwidth of 12.5 kHz or less beginning January 1, 2013, unless the operations meet the efficiency standard of § 90.203(j)(3).

4 The maximum authorized bandwidth shall be 12 MHz for non-multilateration LMS operations in the band 909.75-921.75 MHz and 2 MHz in the band 902.00-904.00 MHz. The maximum authorized bandwidth for multilateration LMS operations shall be 5.75 MHz in the 904.00-909.75 MHz band; 2 MHz in the 919.75-921.75 MHz band; 5.75 MHz in the 921.75-927.25 MHz band and its associated 927.25-927.50 MHz narrowband forward link; and 8.00 MHz if the 919.75-921.75 MHz and 921.75-927.25 MHz bands and their associated 927.25-927.50 MHz and 927.50-927.75 MHz narrowband forward links are aggregated.

5 See § 90.259.

6 Operations using equipment designed to operate with a 25 kilohertz channel bandwidth may be authorized up to a 20 kilohertz bandwidth unless the equipment meets the Adjacent Channel Power limits of § 90.221 in which case operations may be authorized up to a 22 kilohertz bandwidth.

Operations using equipment designed to operate with a 12.5 kilohertz channel bandwidth may be authorized up to an 11.25 kilohertz bandwidth

8.2.2 Test summary

Test date	July 14, 2025	Verdict	Pass
Test engineer	Daniele Guarnone	Sample tested	

8.2.3 Observations, settings and special notes

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8.2.4 Test equipment used

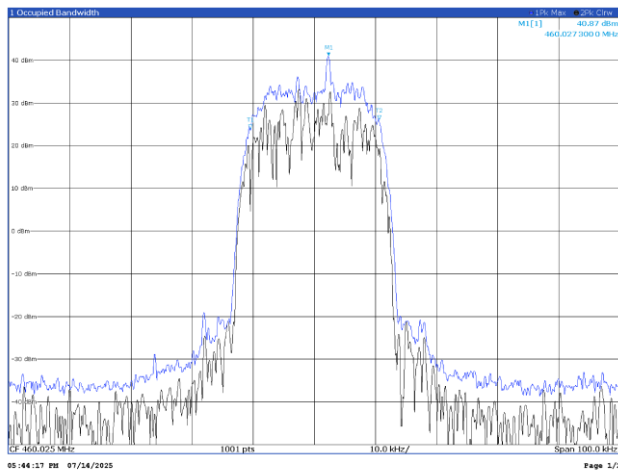
Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-09	2025-09
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2025-01	2026-01
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-10	2027-10
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-05	2026-05
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2025-01	2026-01
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
3m Semi anechoic chamber	Comtest	SAC-3	1711-150	2024-09	2026-09
Software turntable and mast	Maturo	mcApp	8.1.0.5410	NCR	NCR
Coaxial cable	Rosenberger+Huber-Suhner	RE01+RE02	1.654+1.655	2025-01	2026-01
10m Semi anechoic chamber	Comtest	SAC-10	530		
Attenuator	Bird Electronic	500-WA-MFN-30	0124	2024-12	2025-12
Coaxial cable	Rosenberger+Huber-Suhner	RE03+RE04	1.510+1.511	2025-01	2026-01
Coaxial cable	Rosenberger+Huber-Suhner	RE04+RE05	1.511+1.512	2025-01	2026-01
Coaxial cable	Rosenberger	ST.ALO-02	1.650	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-01	1.649	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-09	1.648	2025-01	2026-01

Notes: NCR - no calibration required, VOU - verify on use

8.2.5 Test data

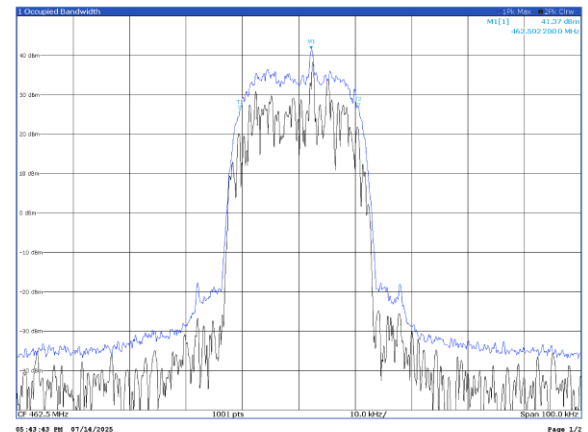
Table 8.2-1: 99% bandwidth results

Modulation	Frequency, MHz	99 % bandwidth, kHz	Limit, kHz	Margin, kHz
TX1	460.025	21.024	25	-4,0
	462.500	21.021	25	-4,0
	464.975	20.879	25	-4,1
TX2	460.025	21.195	25	-3,8
	462.500	21.094	25	-3,9
	464.975	21.134	25	-3,9



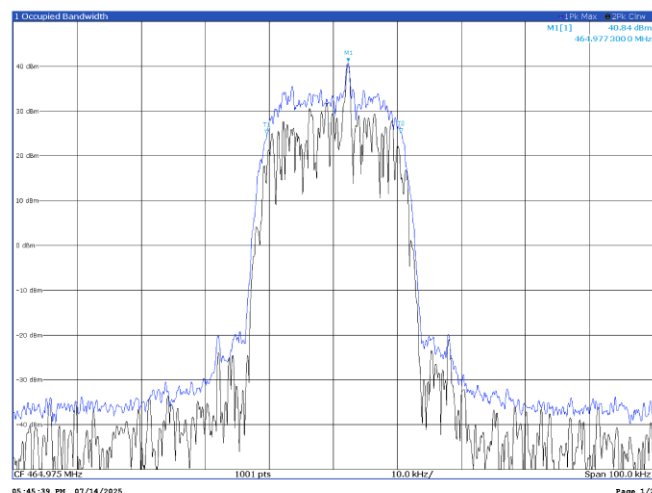
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		460.0273 MHz	40.87 dBm	Occ BW	21.024 367 554 kHz
T1	1		460.025000 MHz	20.05 dBm	Occ BW Centroid	460.025000000 MHz
T2	1		460.035000 MHz	26.05 dBm	Occ BW Freq Offset	75.362477064 Hz

Figure 8.2-1: Low channel, occupied bandwidth, TX1



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		462.5022 MHz	41.37 dBm	Occ BW	21.021 352 777 kHz
T1	1		462.499340 MHz	20.05 dBm	Occ BW Centroid	462.500000000 MHz
T2	1		462.510550 MHz	26.05 dBm	Occ BW Freq Offset	83.618095813 Hz

Figure 8.2-2: Mid channel, occupied bandwidth, TX1



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		464.9773 MHz	40.84 dBm	Occ BW	20.879 420 004 kHz
T1	1		464.964400 MHz	24.77 dBm	Occ BW Centroid	464.975000000 MHz
T2	1		464.985520 MHz	25.09 dBm	Occ BW Freq Offset	80.472878695 Hz

Figure 8.2-3: High channel, occupied bandwidth, TX1

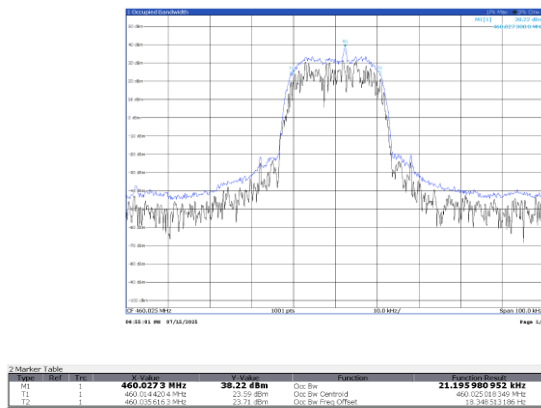


Figure 8.2-42: Low channel, occupied bandwidth, TX2

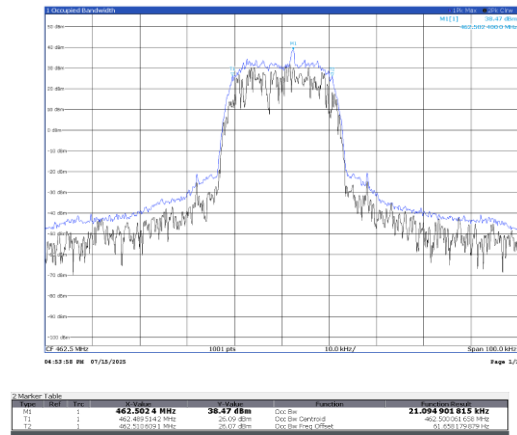


Figure 8.2-5: Mid channel, occupied bandwidth, TX2

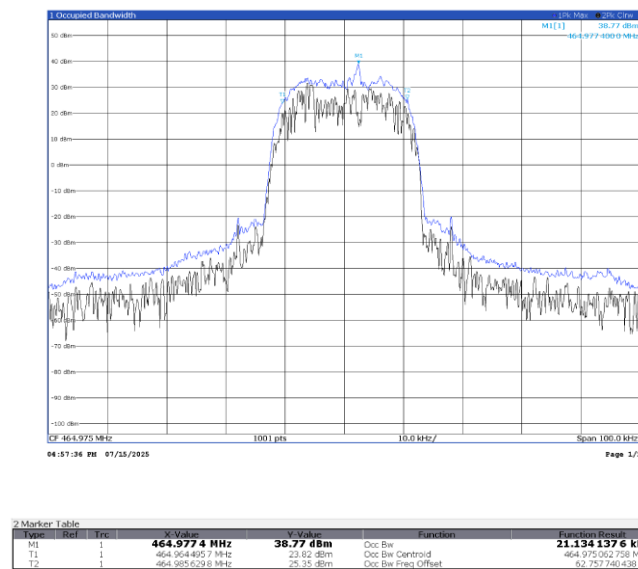


Figure 8.2 6: High channel, occupied bandwidth, TX2

8.3 90.210 Spectrum mask and spurious emissions

8.3.1 Definitions and limits

According to Federal Communications Commission FCC 11-63, **APPENDIX A**

APPLICABLE EMISSION MASKS

Frequency band (MHz)	Mask for equipment with Audio low pass filter	Mask for equipment without audio low pass filter

421–512 ^{2, 5}	B, D, or E	C, D, or E

809–824/854–869 ^{3, 5}	B	G

2 Equipment designed to operate with a 25 kHz channel bandwidth must meet the requirements of Emission Mask B or C, as applicable. Equipment designed to operate with a 12.5 kHz channel bandwidth must meet the requirements of Emission Mask D, and equipment designed to operate with a 6.25 kHz channel bandwidth must meet the requirements of Emission Mask E.

3 Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of § 90.691.

5 Equipment in the 450-470 MHz and 817-824/862-869 MHz bands may alternatively meet the Adjacent Channel Power Limits of § 90.221.

4. New Section 90.221 is added to read as follows

FCC §90.210:

Except as indicated elsewhere in this part, transmitters used in the radio services governed by this part must comply with the emission masks outlined in this section. Unless otherwise stated, per paragraphs (d)(4), (e)(4), and (o) of this section, measurements of emission power can be expressed in either peak or average values provided that emission powers are expressed with the same parameters used to specify the unmodulated transmitter carrier power. For transmitters that do not produce a full power unmodulated carrier, reference to the unmodulated transmitter carrier power refers to the total power contained in the channel bandwidth. Unless indicated elsewhere in this part, the table in this section specifies the emission masks for equipment operating under this part.

Notes: 1 Equipment designed to operate with a 25 kHz channel bandwidth must meet the requirements of Emission Mask B or C, as applicable. Equipment designed to operate with a 12.5 kHz channel bandwidth must meet the requirements of Emission Mask D, and equipment designed to operate with a 6.25 kHz channel bandwidth must meet the requirements of Emission Mask E.

2 Equipment designed to operate on 25 kilohertz bandwidth channels must meet the requirements of either Emission Mask B or G, whichever is applicable, while equipment designed to operate on 12.5 kilohertz bandwidth channels must meet the requirements of Emission Mask D.

Equipment designed to operate on 25 kilohertz bandwidth channels may alternatively meet the Adjacent Channel Power limits of §90.221.

(b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(c) Emission Mask C. For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier output power (P) as follows:

(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 5 kHz, but not more than 10 kHz: At least 83 log (fd/5) dB;

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 10 kHz, but not more than 250 percent of the authorized bandwidth: At least 29 log (fd/11) dB or 50 dB, whichever is the lesser attenuation;

(3) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(d) Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88)$ dB.
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

FCC §90.210:

(e) Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to 3.0 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 3.0 kHz but no more than 4.6 kHz: At least $30 + 16.67(f_d - 3)$ kHz or $55 + 10 \log(P)$ or 65 dB, whichever is the lesser attenuation.
- (3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least $55 + 10 \log(P)$ or 65 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

8.3.1 Test summary

Test date	July 14, 2025	Verdict	Pass
Test engineer	Daniele Guarnone	Sample tested	

8.3.2 Observations, settings and special notes

Spectrum analyser settings for radiated measurements within restricted bands below 1 GHz:

Resolution bandwidth:	100 kHz
Video bandwidth:	300 kHz
Detector mode:	Peak
Trace mode:	Max Hold

Spectrum analyser settings for peak radiated measurements within restricted bands above 1 GHz:

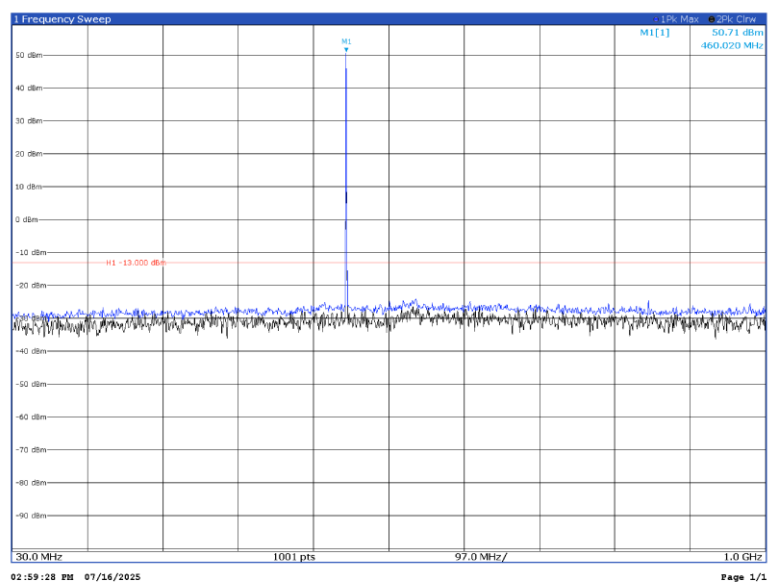
Resolution bandwidth:	1 MHz
Video bandwidth:	3 MHz
Detector mode:	Peak
Trace mode:	Max Hold

8.3.3 Test equipment used

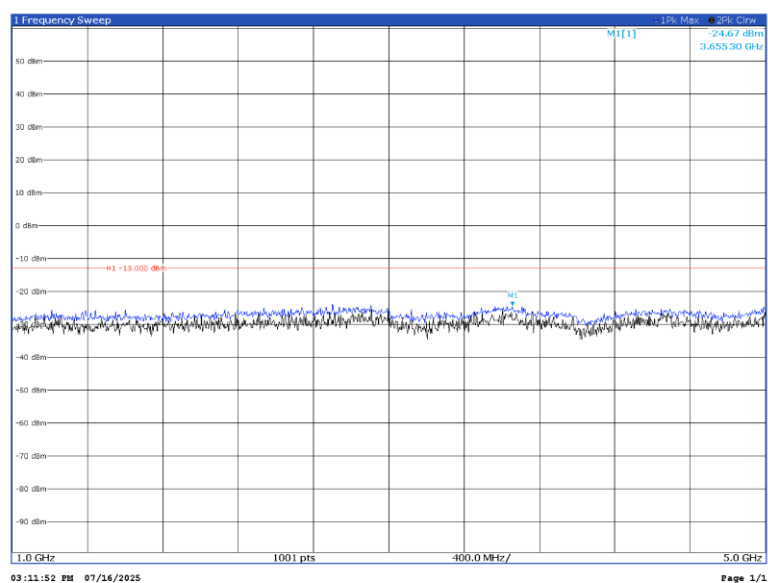
Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-09	2025-09
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2025-01	2026-01
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-10	2027-10
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-05	2026-05
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2025-01	2026-01
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
3m Semi anechoic chamber	Comtest	SAC-3	1711-150	2024-09	2026-09
Software turntable and mast	Maturo	mcApp	8.1.0.5410	NCR	NCR
Coaxial cable	Rosenberger+Huber-Suhner	RE01+RE02	1.654+1.655	2025-01	2026-01
10m Semi anechoic chamber	Comtest	SAC-10	530		
Attenuator	Bird Electronic	500-WA-MFN-30	0124	2024-12	2025-12
Coaxial cable	Rosenberger+Huber-Suhner	RE03+RE04	1.510+1.511	2025-01	2026-01
Coaxial cable	Rosenberger+Huber-Suhner	RE04+RE05	1.511+1.512	2025-01	2026-01
Coaxial cable	Rosenberger	ST.ALO-02	1.650	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-01	1.649	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-09	1.648	2025-01	2026-01

Notes: NCR - no calibration required, VOU - verify on use

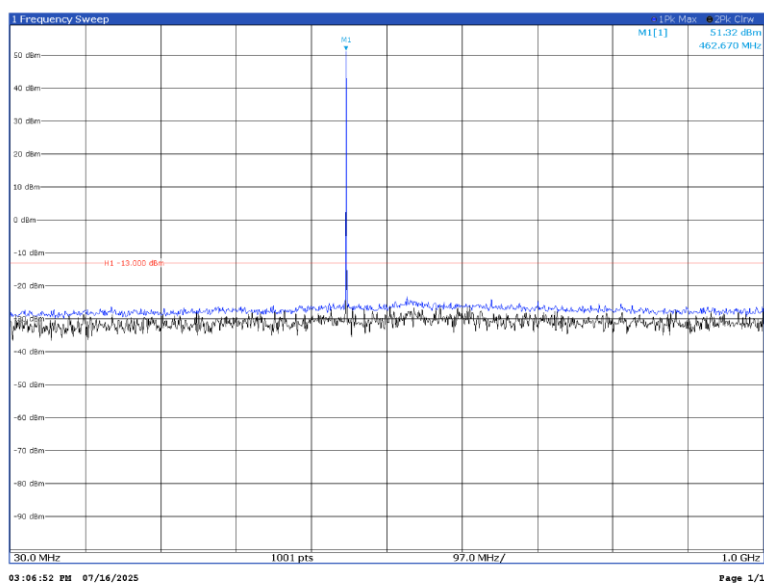
8.4.4 Test data



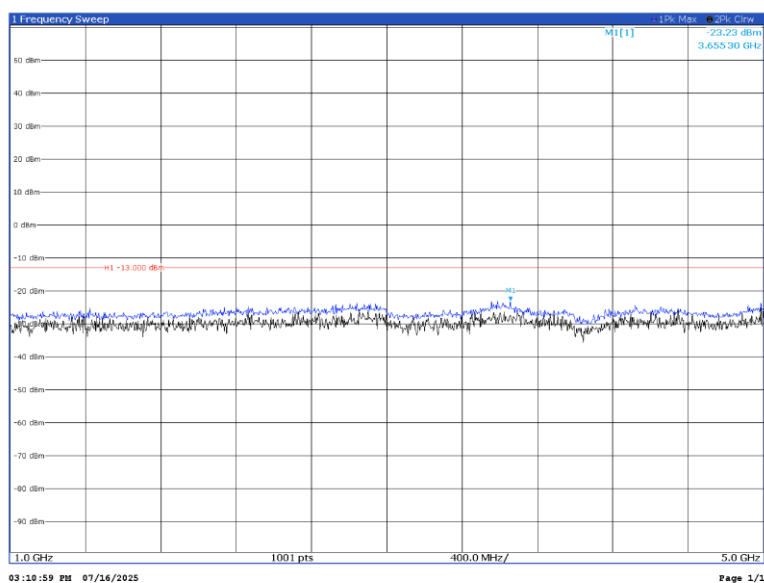
TX1 on 460.025 MHz, TX2 on 460.050 MHz conducted spurious at antenna terminal 30 MHz to 1GHz



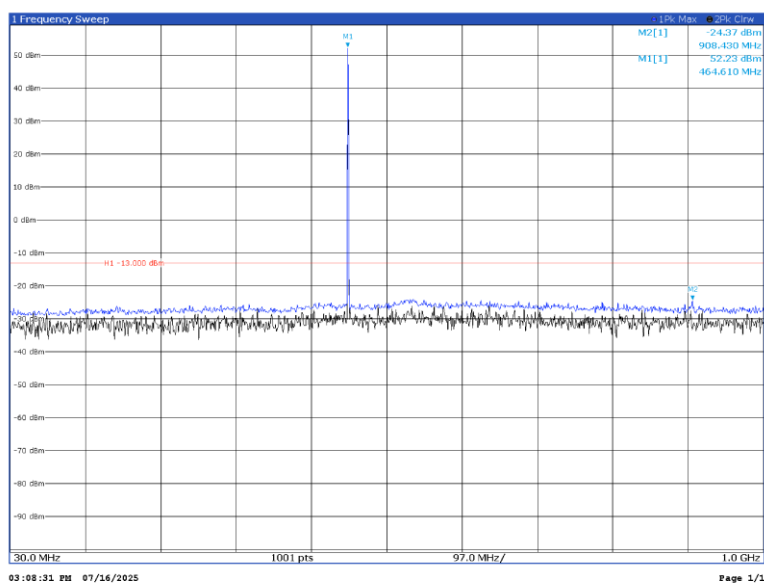
TX1 on 460.025 MHz, TX2 on 460.050 MHz conducted spurious at antenna terminal 1 GHz to 6 GHz



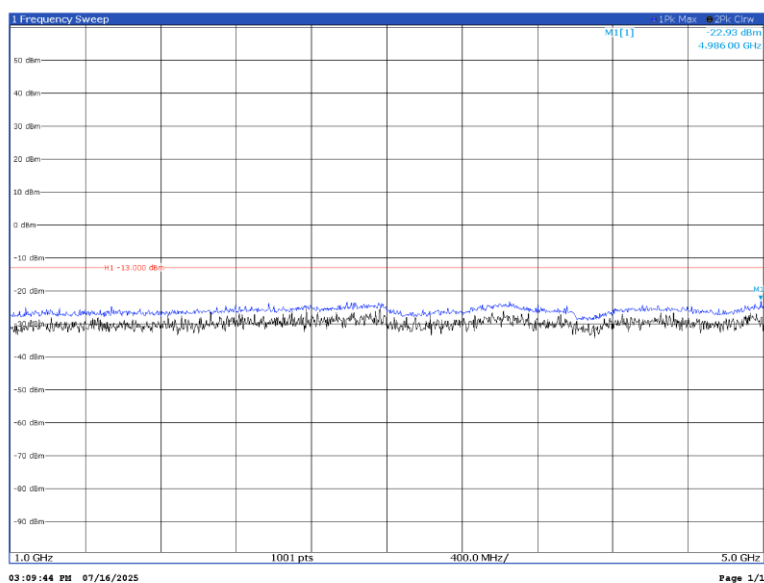
TX1 on 462.500 MHz, TX2 on 462.525 MHz conducted spurious at antenna terminal 30 MHz to 1GHz



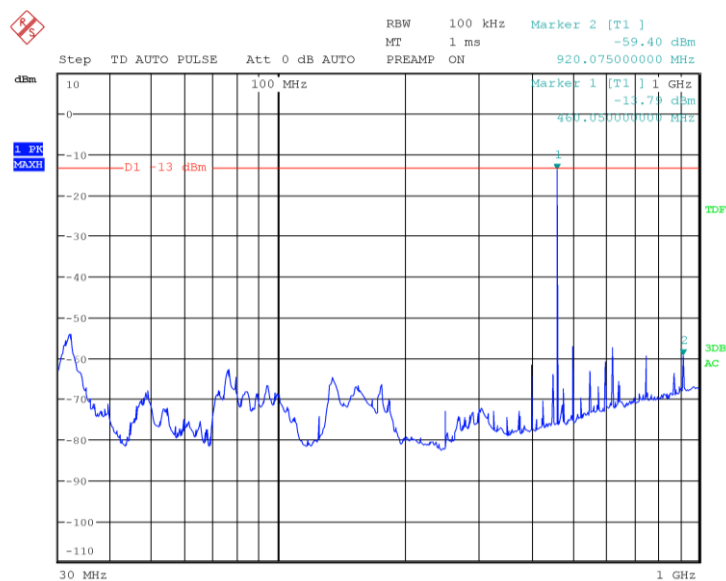
TX1 on 462.500 MHz, TX2 on 462.525 MHz conducted spurious at antenna terminal 1 GHz to 6 GHz



TX1 on 464.975 MHz, TX2 on 465.000 MHz conducted spurious at antenna terminal 30 MHz to 1 GHz

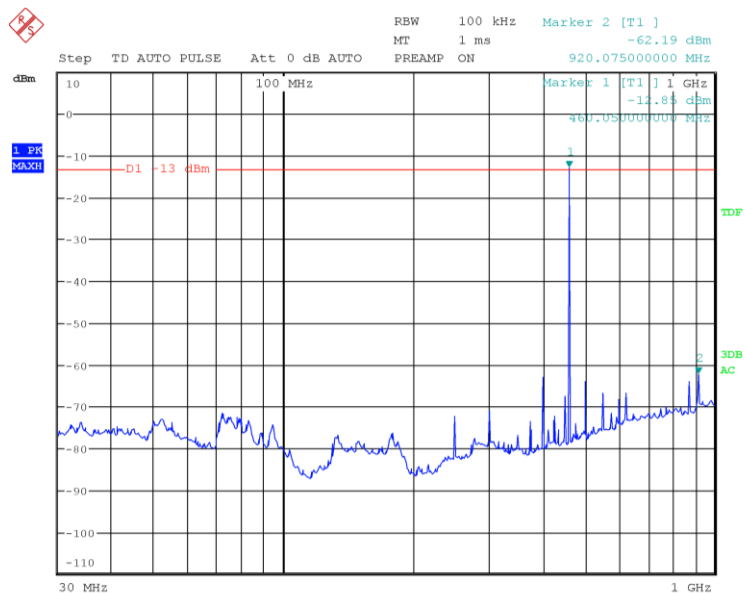


TX1 on 464.975 MHz, TX2 on 465.000 MHz conducted spurious at antenna terminal 1 GHz to 6 GHz



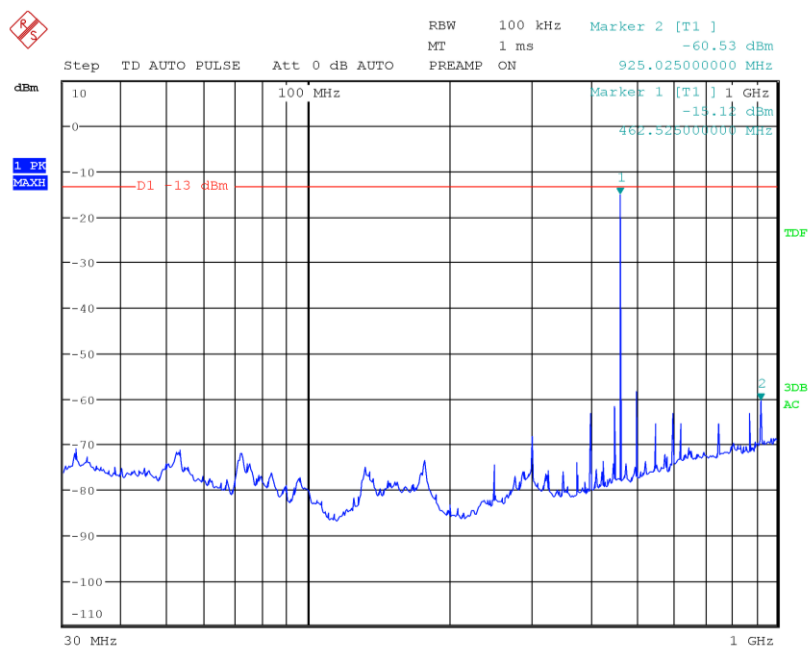
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TX1 on 460.025 MHz, TX2 on 460.050 MHz, radiated spurious, vertical polarization, 30 MHz to 1GHz



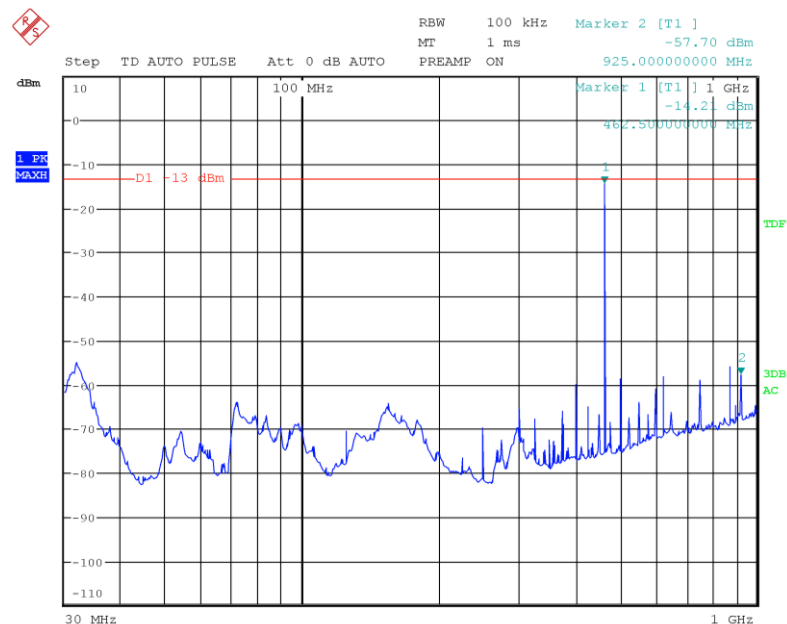
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TX1 on 460.025 MHz, TX2 on 460.050 MHz, radiated spurious, horizontal polarization, 30 MHz to 1GHz



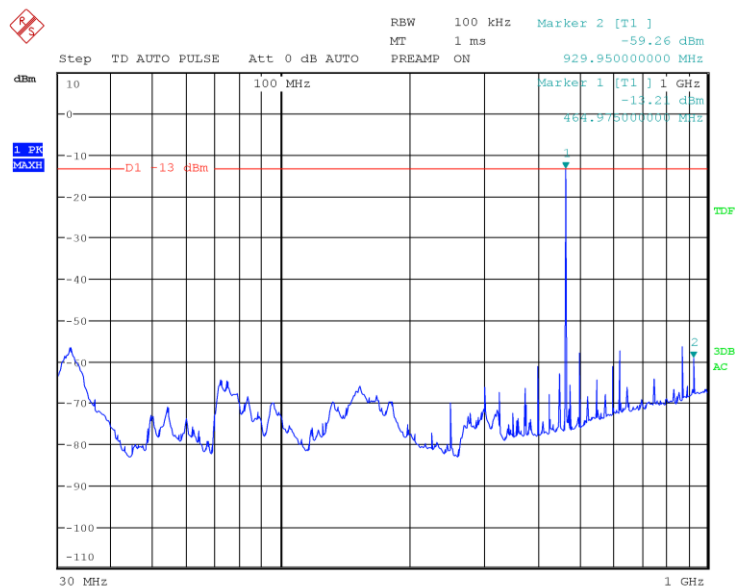
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TX1 on 462.500 MHz, TX2 on 462.525 MHz radiated spurious, horizontal polarization, 30 MHz to 1GHz



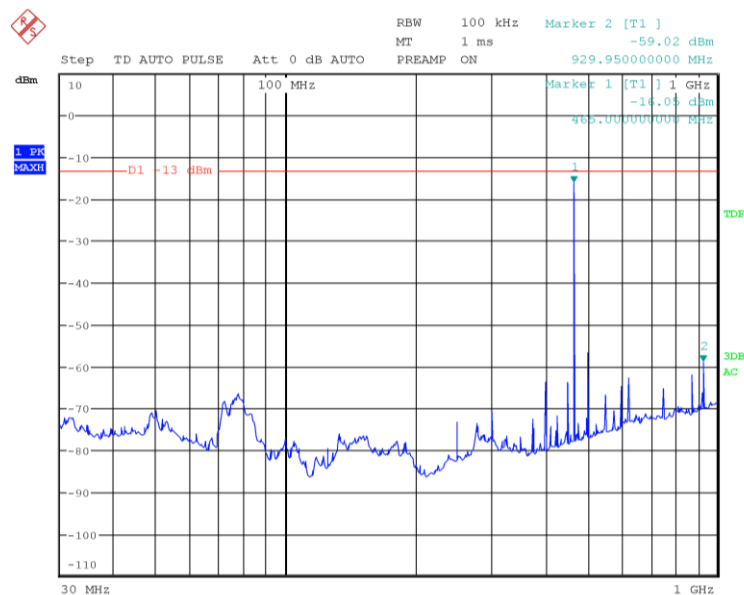
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TX1 on 462.500 MHz, TX2 on 462.525 MHz radiated spurious, vertical polarization, 30 MHz to 1GHz



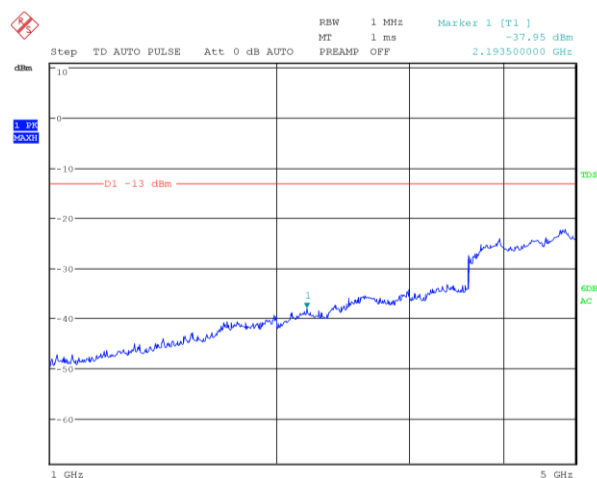
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TX1 on 464.975 MHz, TX2 on 465.000 MHz radiated spurious, vertical polarization, 30 MHz to 1GHz



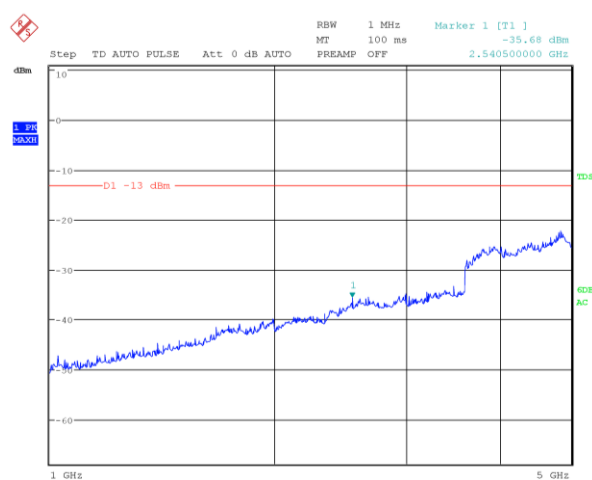
Date: 17.JUL.2025 16:08:10

TX1 on 464.975 MHz, TX2 on 465.000 MHz radiated spurious, horizontal polarization, 30 MHz to 1GHz



Date: 17.JUL.2025 17:41:14

TX1 on 460.025 MHz, TX2 on 460.050 MHz, radiated spurious, vertical polarization, 1 GHz to 5 GHz



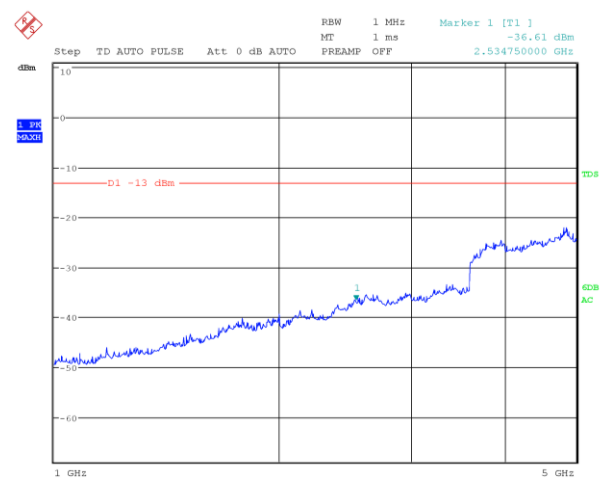
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TX1 on 460.025 MHz, TX2 on 460.050 MHz, radiated spurious, horizontal polarization, 1 GHz to 5 GHz



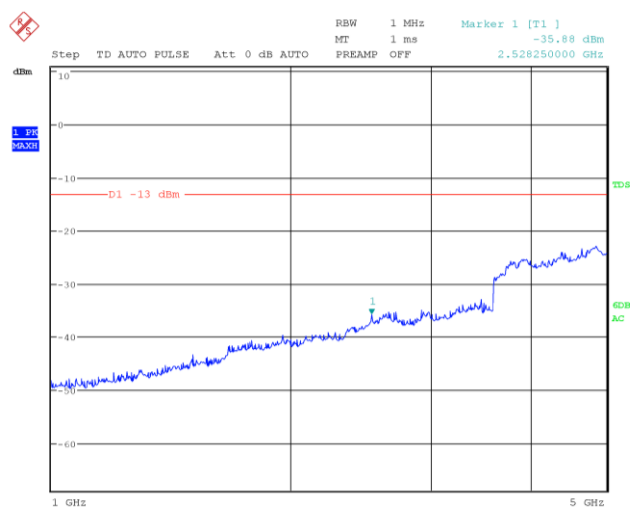
Date: 17.JUL.2025 17:52:53

TX1 on 462.500 MHz, TX2 on 462.525 MHz radiated spurious vertical polarization, 1 GHz to 5 GHz



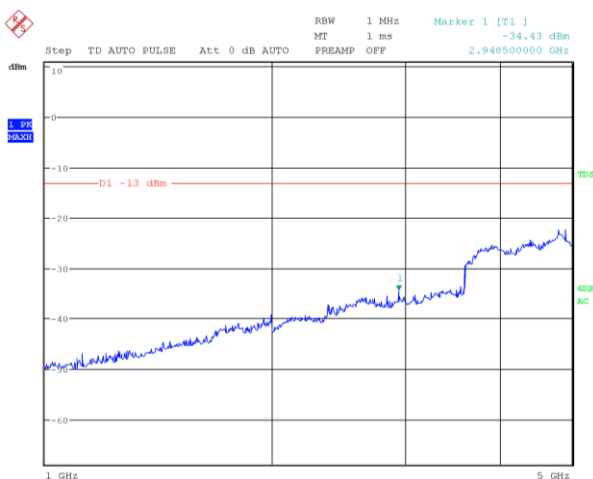
Date: 17.JUL.2025 17:50:59

TX1 on 462.500 MHz, TX2 on 462.525 MHz radiated spurious, horizontal polarization, 1 GHz to 5 GHz



Date: 17.JUL.2025 17:56:17

TX1 on 464.975 MHz, TX2 on 465.000 MHz radiated spurious vertical polarization, 1 GHz to 5 GHz



Date: 17.JUL.2025 17:57:51

TX1 on 464.975 MHz, TX2 on 465.000 MHz radiated spurious, horizontal polarization, 1 GHz to 5 GHz

8.4 90.221 Adjacent channel power limits.

8.4.1 Definitions and limits

(a) For the frequency bands indicated below, operations using equipment designed to operate with a 25 kHz channel bandwidth may be authorized up to a 22 kHz bandwidth if the equipment meets the adjacent channel power (ACP) limits below. The table specifies a value for the ACP as a function of the displacement from the channel center frequency and a measurement bandwidth of 18 kHz.

(b)

(1) Maximum adjacent power levels for frequencies in the 450-470 MHz band:

Frequency offset	Maximum ACP (dBc) for devices 1 watt and less	Maximum ACP (dBc) for devices above 1 watt
25 kHz	-55 dBc	-60 dBc
50 kHz	-70 dBc	-70 dBc
75 kHz	-70 dBc	-70 dBc

(2) In any case, no requirement in excess of -36 dBm shall apply.

(Test summary)

Test date	July 15, 2025	Verdict	Pass
Test engineer	Daniele Guarnone	Sample tested	

8.4.2 Observations, settings and special notes

The spectrum was set for Tetra adjacent power measurements

8.4.3 Test equipment used

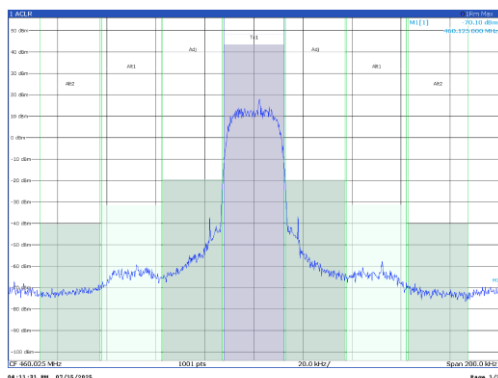
Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-09	2025-09
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2025-01	2026-01
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-10	2027-10
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-05	2026-05
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2025-01	2026-01
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
3m Semi anechoic chamber	Comtest	SAC-3	1711-150	2024-09	2026-09
Software turntable and mast	Maturo	mcApp	8.1.0.5410	NCR	NCR
Coaxial cable	Rosenberger+Huber-Suhner	RE01+RE02	1.654+1.655	2025-01	2026-01
10m Semi anechoic chamber	Comtest	SAC-10	530		
Attenuator	Bird Electronic	500-WA-MFN-30	0124	2024-12	2025-12
Coaxial cable	Rosenberger+Huber-Suhner	RE03+RE04	1.510+1.511	2025-01	2026-01
Coaxial cable	Rosenberger+Huber-Suhner	RE04+RE05	1.511+1.512	2025-01	2026-01
Coaxial cable	Rosenberger	ST.ALO-02	1.650	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-01	1.649	2024-12	2025-12
Coaxial cable	Rosenberger	ST.ALO-09	1.648	2025-01	2026-01

Notes: NCR - no calibration required, VOU - verify on use

8.4.4 Test data

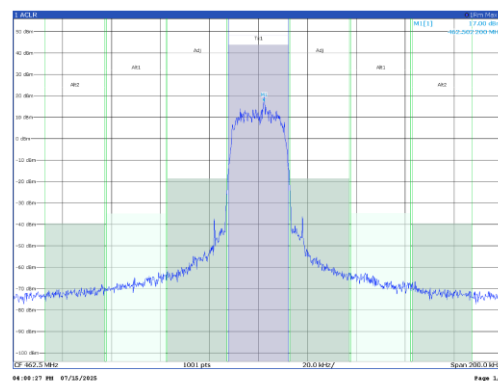
Table 8.4-1: Adjacent channel measurement results

Carrier	Frequency, MHz	Frequency offset (kHz)	Adjacent power dBc lower	Adjacent power dBc upper	Limit, dBc	Margin, dB
TX1 low	460.025	25	62.88	63.18	60	-2.88
	460.025	50	75.03	74.86	70	-4.86
	460.025	75	83.32	83.44	70	-13.32
TX1 mid	462.500	25	62.44	62.42	60	-2.42
	462.500	50	78.74	78.47	70	-8.47
	462.500	75	83.32	83.41	70	-13.32
TX1 high	464.975	25	62.53	62.52	60	-2.52
	464.975	50	78.19	78.26	70	-8.19
	464.975	75	83.49	83.37	70	-13.37
TX2 low	460.025	25	62.43	62.41	60	-2.41
	460.025	50	74.46	74.24	70	-4.24
	460.025	75	83.64	83.47	70	-13.47
TX2 mid	462.500	25	62.77	62.67	60	-2.67
	462.500	50	79.38	78.62	70	-8.62
	462.500	75	83.65	83.48	70	-13.48
TX2 high	464.975	25	61.96	62.75	60	-1.96
	464.975	50	77.97	78.30	70	-7.97
	464.975	75	83.58	83.06	70	-13.06



2 Result Summary				
TETRA				
Channel	Bandwidth	Offset	Power	Limit
TX1 low	25.000 kHz	25.000 kHz	43.40 dBm	43.40 dBm
Channel	Bandwidth	Offset	Power	Limit
AD	25.000 kHz	25.000 kHz	-62.88 dBc	-63.18 dBc
AD	25.000 kHz	50.000 kHz	-75.03 dBc	-74.86 dBc
AD	25.000 kHz	75.000 kHz	-83.32 dBc	-83.44 dBc

Figure 8.4-1: Adjacent power TX1 low



2 Result Summary		TETRA			
Channel	Bandwidth	Offset	Power		
Ts1 (Ref)	24.300 kHz		43.70 dBm		
Ts Total			43.70 dBm		
Channel	Bandwidth	Offset		Upper	
Ad1	24.300 kHz	25.000 kHz	-62.44 dBc	-62.42 dBc	
AR1	24.300 kHz	50.000 kHz	-78.74 dBc	-78.47 dBc	
AR2	24.300 kHz	75.000 kHz	-83.32 dBc	-83.44 dBc	

Figure 8.4-2: Adjacent power TX1 mid

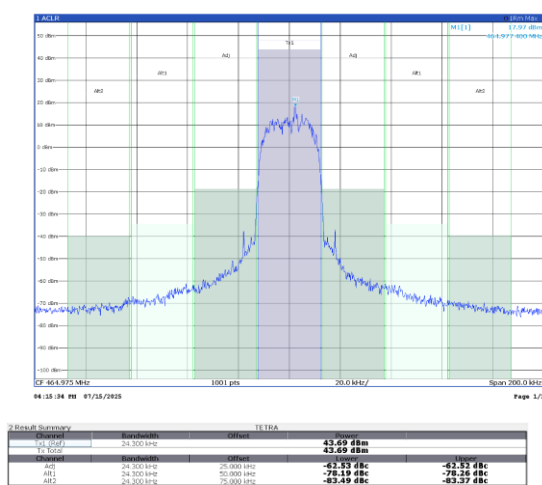


Figure 8.4-3: Adjacent power TX1 high

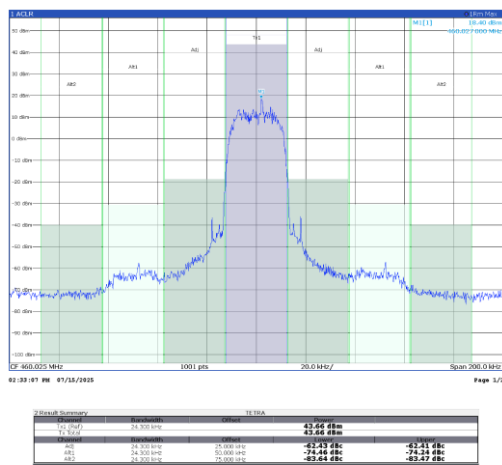


Figure 8.4-4: Adjacent power TX2 low

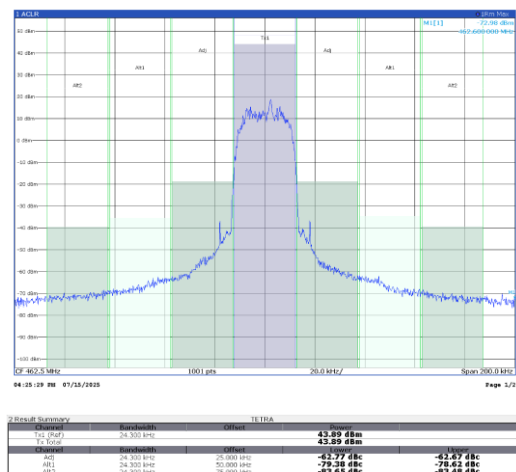


Figure 8.4-5: Adjacent power TX2 mid

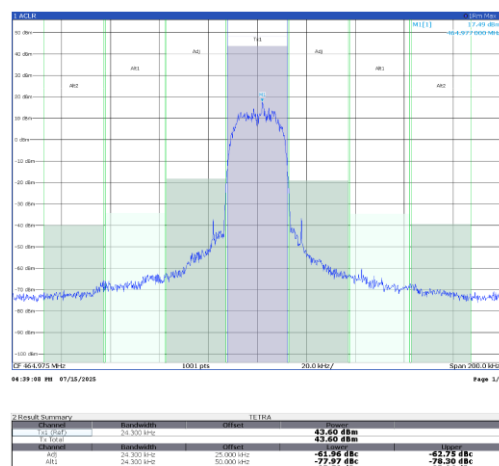


Figure 8.4-6: Adjacent power TX2 high

8.5 Transmitter frequency stability

8.5.1 Definitions and limits

FCC §90.213:

Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table

Table 21 - Minimum frequency stability

Frequency range (MHz)	Fixed and base stations	Mobile stations over 2 watts output power	Mobile stations 2 watts or less output power
421–512	$\pm 2.5 \text{ ppm}^1$	$\pm 5 \text{ ppm}^2$	$\pm 5 \text{ ppm}^2$

Notes: ¹In the 421–512 MHz band, fixed and base stations with a 12.5 kHz channel bandwidth must have a frequency stability of 1.5 ppm. Fixed and base stations with a 6.25 kHz channel bandwidth must have a frequency stability of 0.5 ppm.

²In the 421–512 MHz band, mobile stations designed to operate with a 12.5 kHz channel bandwidth must have a frequency stability of 2.5 ppm. Mobile stations designed to operate with a 6.25 kHz channel bandwidth must have a frequency stability of 1.0 ppm.

Test date	July 15, 2025	Verdict	Pass
Test engineer	Daniele Guarnone	Sample tested	

8.5.2 Observations, settings and special notes

The spectrum was set for Tetra adjacent power measurements

8.5.3 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
spectrum analyzer	R&S	FSW8	101399	2025-01	2026-01
climatic chamber	ANGELANTONI	CH3900	7315	2025-02	2026-02

Notes: NCR - no calibration required, VOU - verify on use

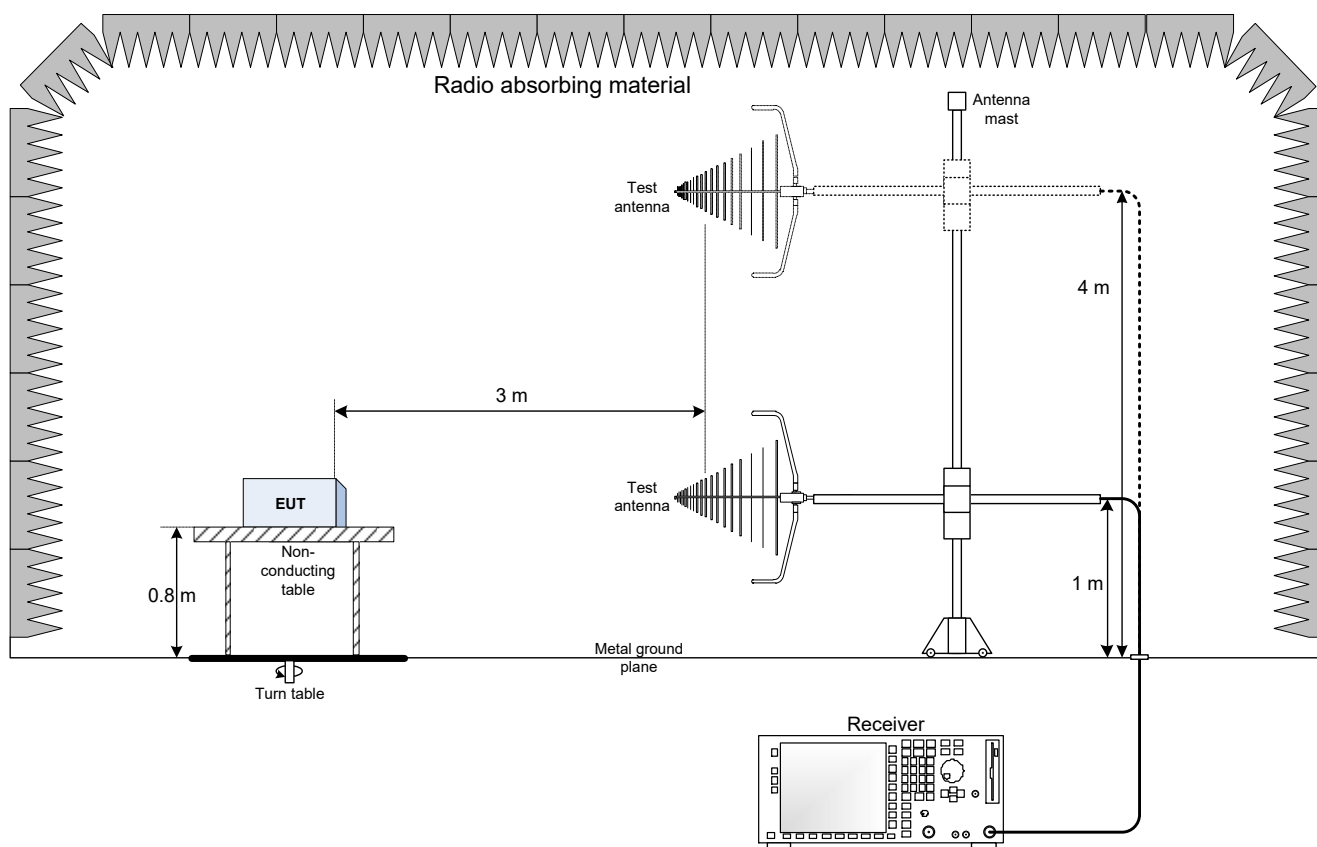
8.5.4 Test data

Table 8.5-1: Transmitter frequency stability results

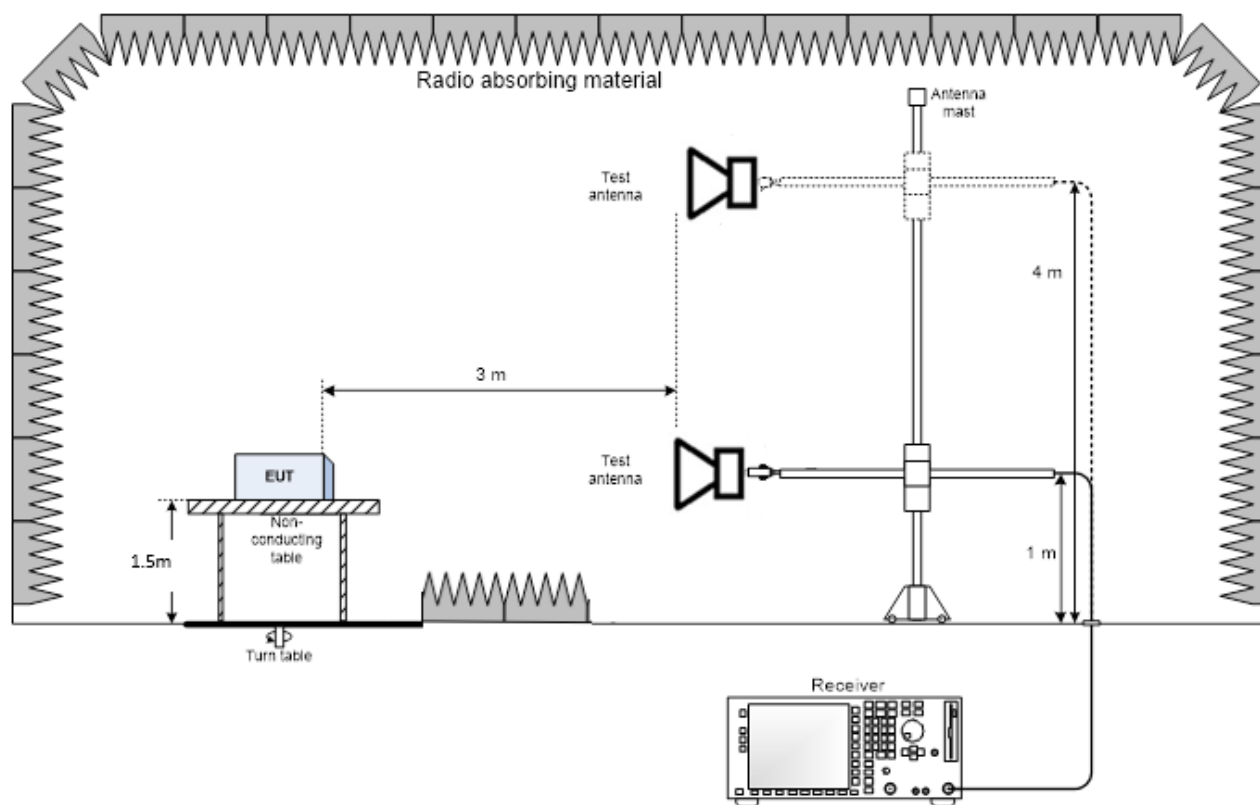
Conditions	Frequency (MHz)	Offset (ppm)
+60 °C nom.power	462,500014	0,029405
+50 °C nom.power	462,5000149	0,032216
+40 °C nom.power	462,5000163	0,035243
+30 °C nom.power	462,5000176	0,038054
+20 °C +15% power	462,5000184	0,039784
+20 °C nom.power	462,5000184	0,039784
+20 °C -15% power	462,5000185	0,040000
+10 °C nom.power	462,5000179	0,038703
0 °C nom.power	462,5000184	0,039784
-10 °C nom.power	462,5000178	0,038486
-20 °C nom.power	462,5000174	0,037622
-30 °C nom.power	462,5000154	0,033297

Section 9. Block diagrams of test set-ups

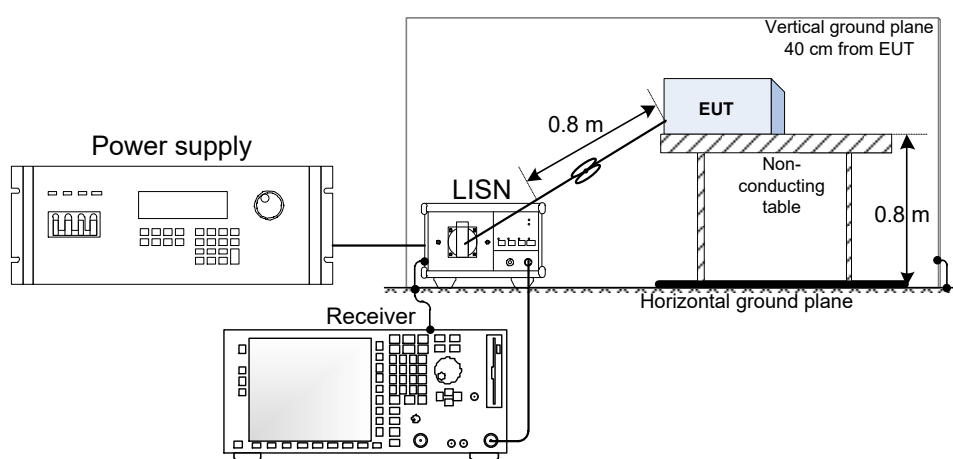
9.1 Radiated emissions set-up for frequencies below 1 GHz



9.2 Radiated emissions set-up for frequencies above 1 GHz



9.3 Conducted emissions set-up



Section 10. Photos

See “Annex A_EUT & Test Setup photos”.

End of report