

Test report

Number T251-0559/26 M1

Project file: C20261042

Date: 2026-07-28

Pages: 53

Product: RFID reader Sled

Type reference: CT47 SLED HF/UHF RFID Reader

Ratings: Supplied from handheld device:
5 V d.c.; 3 A; Class III

Trademark:

Honeywell

Applicant: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, 29707 South Carolina, USA

Manufacturer: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, 29707 South Carolina, USA

Place of manufacture: Micro-Sensys GmbH
In der Hochstedter Ecke 2, 99098 Erfurt, Germany

Summary of testing

Testing method: 47 CFR Part 15, Subpart C (Clause 15.247)
RSS-Gen (Issue 5), RSS-247 (Issue 4)
last amended 2024-08-08 in conjunction with ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

Testing location: SIQ Ljubljana
Mašera-Spasičeva ulica 10, SI-1000 Ljubljana, Slovenia
FCC Registration number: 241065
FCC and CAB Designation number: SI0001

Remarks: Date of receipt of test items: 2026-04-29
Number of items tested: 1
Date of performance of tests: 2026-04-30 – 2026-06-24
The test results presented in this report relate only to the items tested.
The test items were tested in the condition as received.
The product complies with the requirements of the testing methods.

Tested by: Luka Cvajnar

Approved by: Marjan Mak



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CONTENTS	page
1 GENERAL	3
1.1 EQUIPMENT UNDER TEST	3
1.2 GENERAL PRODUCT INFORMATION	4
1.3 MEASUREMENT UNCERTAINTY	6
1.4 APPLICATION OF DECISION RULE	6
2 TEST EQUIPMENT	7
3 TEST SUMMARY	8
3.1 OPERATING VOLTAGES/FREQUENCIES USED FOR TESTING	8
4 EMISSION TESTS (INTENTIONAL RADIATORS)	9
4.1 §15.203 ANTENNA REQUIREMENTS	9
4.2 §15.207 AC LINE CONDUCTED EMISSION	10
4.3 §15.247 (A) (1) 20 dB BANDWIDTH	11
4.4 §15.247 (A) (1) TIME OF OCCUPANCY (DWELL TIME)	15
4.5 §15.247 (A) (1) NUMBER OF HOPPING FREQUENCIES	19
4.6 §15.247 (A) (1) CARRIER FREQUENCY SEPARATION	21
4.7 §15.247 (B) PEAK POWER OUTPUT	24
4.8 §15.247 (C) SPURIOUS RF CONDUCTED EMISSIONS	28
4.9 §15.247 RADIATED SPURIOUS EMISSIONS	35
4.10 §15.247 (D) BAND-EDGE COMPLIANCE	46
5 ANNEX I – ADDITIONAL DATA	50
5.1 OCCUPIED BANDWIDTH (99% EMISSION BANDWIDTH)	51

1 GENERAL

History sheet			
Date	Report No.	Change	Revision
2026-07-09	T251-0559/26	Initial Test Report issued.	--
2026-07-28	T251-0559/26 M1	This test report substitutes previously issued test report T251-0589/26, dated 2026-07-24, due to amendment of the test report with modified type and marking plate, where FVIN was added. No additional testing was performed.	1.0

Environmental conditions:

Ambient temperature: 15°C to 35°C

Relative humidity: 30% to 60%

Atmospheric pressure: 860 mbar to 1060 mbar

1.1 Equipment under test

RFID reader Sled

Type: **CT47 SLED HF/UHF RFID Reader**

FCC ID: **HD5-CT47HFUHF**

IC: **1693B-CT47HFUHF**

Equipment marking plates

(The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.)





1.2 General product information

The EUT is a rugged accessory for the Honeywell CT47 mobile computer which enables HF and UHF reading. Reader is supplied from mobile computer CT47.

Product	RFID reader Sled
Type / Model (PMN)	CT47 SLED HF/UHF RFID Reader
Supply voltage of transmitter	5 V d.c.
Operating frequency	915.50 MHz – 927.70 MHz
Number of channels	50
Antenna type	Ceramic Patch Antenna
Modulation type	AM
Hardware version (HVIN):	F580
Firmware version (FVIN):	00 07

Channel list:

Channel	Centre frequency(kHz)	Channel	Centre frequency(kHz)
1	915450	26	921700
2	915700	27	921950
3	915950	28	922200
4	916200	29	922450
5	916450	30	922700
6	916700	31	922950
7	916950	32	923200
8	917200	33	923450
9	917450	34	923700
10	917700	35	923950
11	917950	36	924200
12	918200	37	924450
13	918450	38	924700
14	918700	39	924950
15	918950	40	925200
16	919200	41	925450
17	919450	42	925700
18	919700	43	925950
19	919950	44	926200
20	920200	45	926450
21	920450	46	926700
22	920700	47	926950
23	920950	48	927200
24	921200	49	927450
25	921450	50	927700

Test mode	Description
1	915.50 MHz
2	921.70 MHz
3	927.70 MHz
4	Hopping through all channels enabled

NOTE: The information in this section has been provided by the applicant.

1.3 Measurement uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the product, as specified in ETSI TR 100 028-2 and C63.23. This represents an expanded uncertainty expressed at 95% confidence level using a coverage factor $k=2$.

Measurements	U_{LAB}	$U_{ETSI\ TR\ 100\ 028-2}$	$U_{C63.23}$
AC Line Conducted Emission	3.2 dB	/	$\pm 4,13$
Spurious emission 30 – 300 MHz	4.2 dB	± 6	/
Spurious emission 300 – 1000 MHz	4.4 dB	± 6	/
Occupied bandwidth (99% emission bandwidth)	< 2%	$\pm 5\%$	/

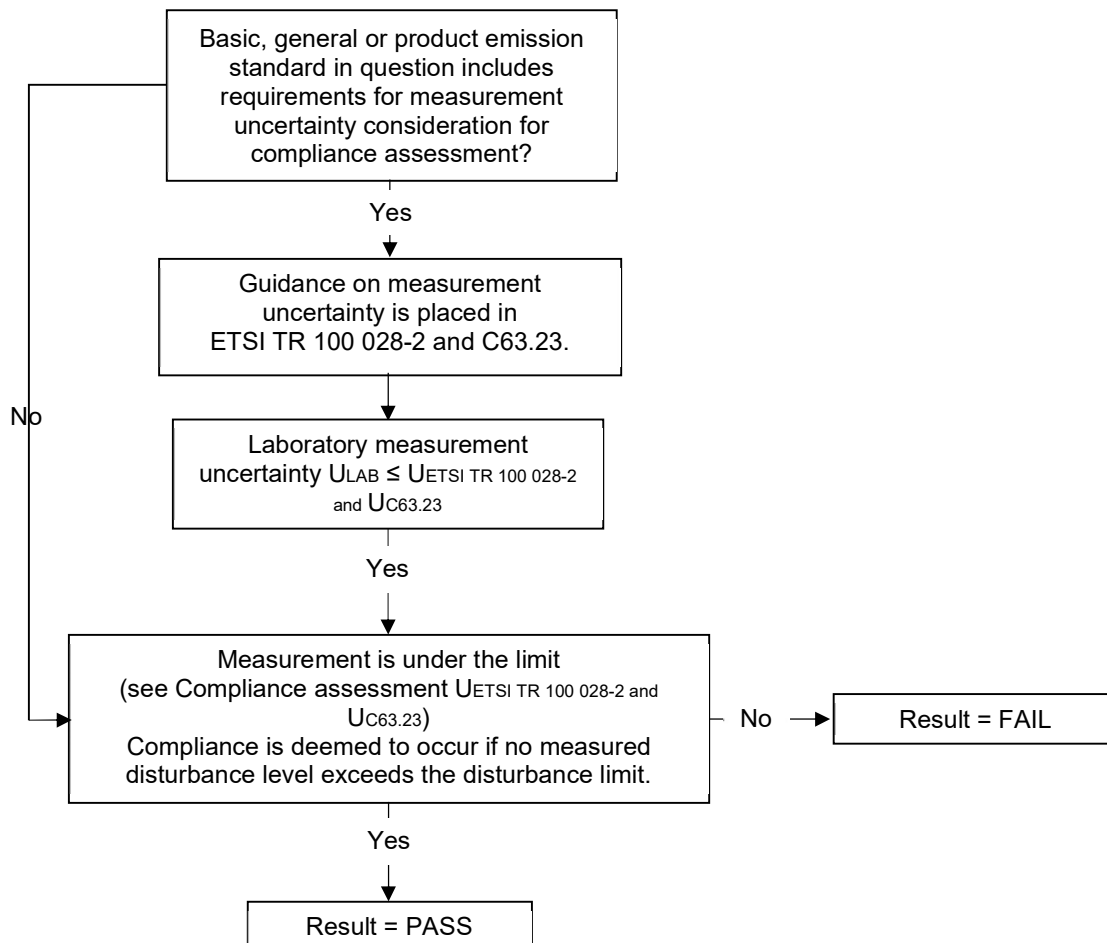
Note: Measurement uncertainty calculated in accordance with ETSI TR 100 028-2 and C63.23.

1.4 Application of decision rule

Application of decision rule and statement of conformity is defined in document TN023 Decision rule and measurement uncertainty.

As a general rule Pass/Fail decisions are based on simple acceptance rule and acceptance limits chosen based on simple acceptance ($w = 0$, $AL = TL$) except if a decision rule is governed by particular standard or guidance document.

Decision rule:



2 TEST EQUIPMENT

Equipment used					
<i>Conducted measurements</i>					
Equipment	Type	Inventory number	Manufacturer	Last calibration	Calibration due date
Spectrum analyser	FSV40	101848	Rohde & Schwarz	2024-11-08	2026-11-08
<i>Radiated measurements</i>					
EMI test receiver	ESW 44		R&S	2026-03-10	2026-09-10
Semi-anechoic chamber	SAC 3m	109071	Comtest engineering	2025-03-24	2028-03-24
Ultra-Broadband Antenna	HL562E	/	Rohde & Schwarz	2023-09-26	2026-09-26
Horn Antenna	HF907	102508	Rohde & Schwarz	2023-08-22	2026-08-22
Active loop antenna	FMZB 1519		Schwarzbeck	2025-10-21	2027-04-21
Digital Multimeter	179	106728	Fluke	2026-01-28	2027-01-28
Highpass filter	WHKX12	/	Wainwright	2025-02-20	2027-02-20
Band reject Filter, Tunable	WTRCT5 - 850-950	/	Wainwright	Verification prior measurement	
Turn table (2 m diameter)	TT 2.0 SI	/	Maturo	N/A	
Bore-sight antenna mast	BAM-4.0-P	/	Maturo	N/A	
Multi-channel positioning equipment	Maturo NCD	/	Maturo	N/A	



3 TEST SUMMARY

STANDARD	Tested	Sample	
	yes pass	no	pass not
FCC 47 CFR Part 15, Subpart C, §15.247			
Note: All tests were conducted using ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024	☒	☐	☒

Test	Section within the report	Conclusion
§15.203 Antenna requirements	4.1	PASS
§15.207 AC Line Conducted emission	4.2	N/A
§15.247 (a) (1) 20 dB Bandwidth	4.3	PASS
§15.247 (a) (1) Time of Occupancy (Dwell Time)	4.4	PASS
§15.247 (a) (1) Number of Hopping Frequencies	4.5	PASS
§15.247 (a) (1) Carrier Frequency Separation	4.6	PASS
§15.247 (a) (1) Pseudorandom Frequency Hopping Sequence and Equal Hooping Frequency Use	4.7	PASS
§15.247 (b) Maximum Peak Power Output	4.8	PASS
§15.247 (d) Spurious RF Conducted Emissions	4.9	PASS
§15.247 Radiated Spurious Emissions	4.10	PASS
§15.247 (d) Band-edge Compliance of RF Conducted Emissions	4.11	PASS

3.1 Operating voltages/frequencies used for testing

Test	Operating conditions
§15.207 AC Line Conducted emission	/
§15.247 (a) (1) 20 dB Bandwidth	5 V d.c.
§15.247 (a) (1) Time of Occupancy (Dwell Time)	5 V d.c.
§15.247 (a) (1) Number of Hopping Frequencies	5 V d.c.
§15.247 (a) (1) Carrier Frequency Separation	5 V d.c.
§15.247 (b) Peak Power Output	5 V d.c.
§15.247 (d) Spurious RF Conducted Emissions	5 V d.c.
§15.247 Radiated Spurious Emissions	5 V d.c.
§15.247 (d) Band-edge Compliance of RF Conducted Emissions	5 V d.c.
99 % Bandwidth	5 V d.c.

4 EMISSION TESTS (Intentional Radiators)

4.1 §15.203 Antenna requirements

Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Conclusion:

PASS

- Antenna is connected to the U.FL connector on PCB within the housing.



4.2 §15.207 AC Line Conducted emission

Requirement

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15–0.5	66 to 56*	56 to 46
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Conclusion: Not applicable.

*EUT employs only battery power. During changing radio transmissions are not activated.

Declared by the manufacturer.

4.3 §15.247 (a) (1) 20 dB Bandwidth

Requirement

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test procedure:

As per Clause 6.9.2 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

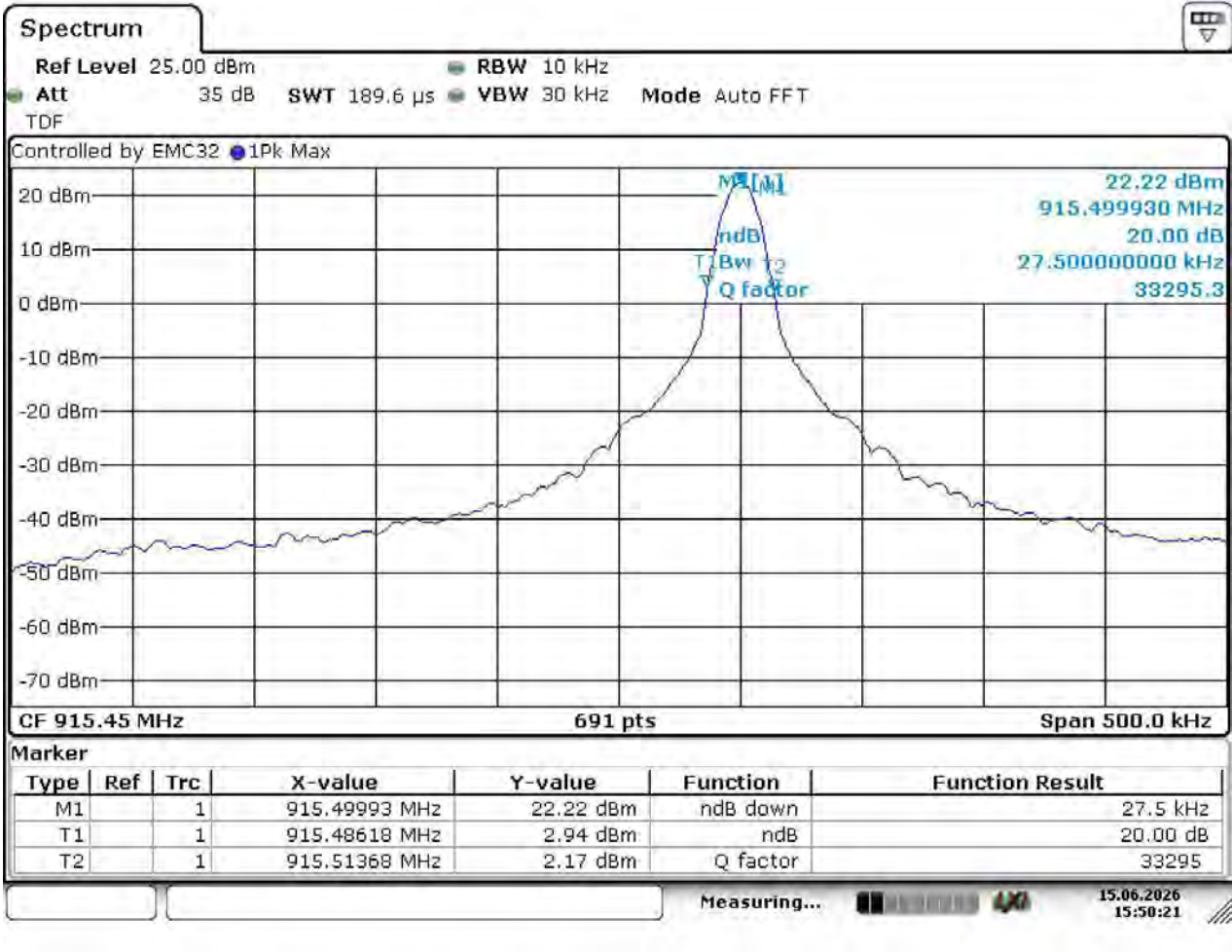
Tabulated test results

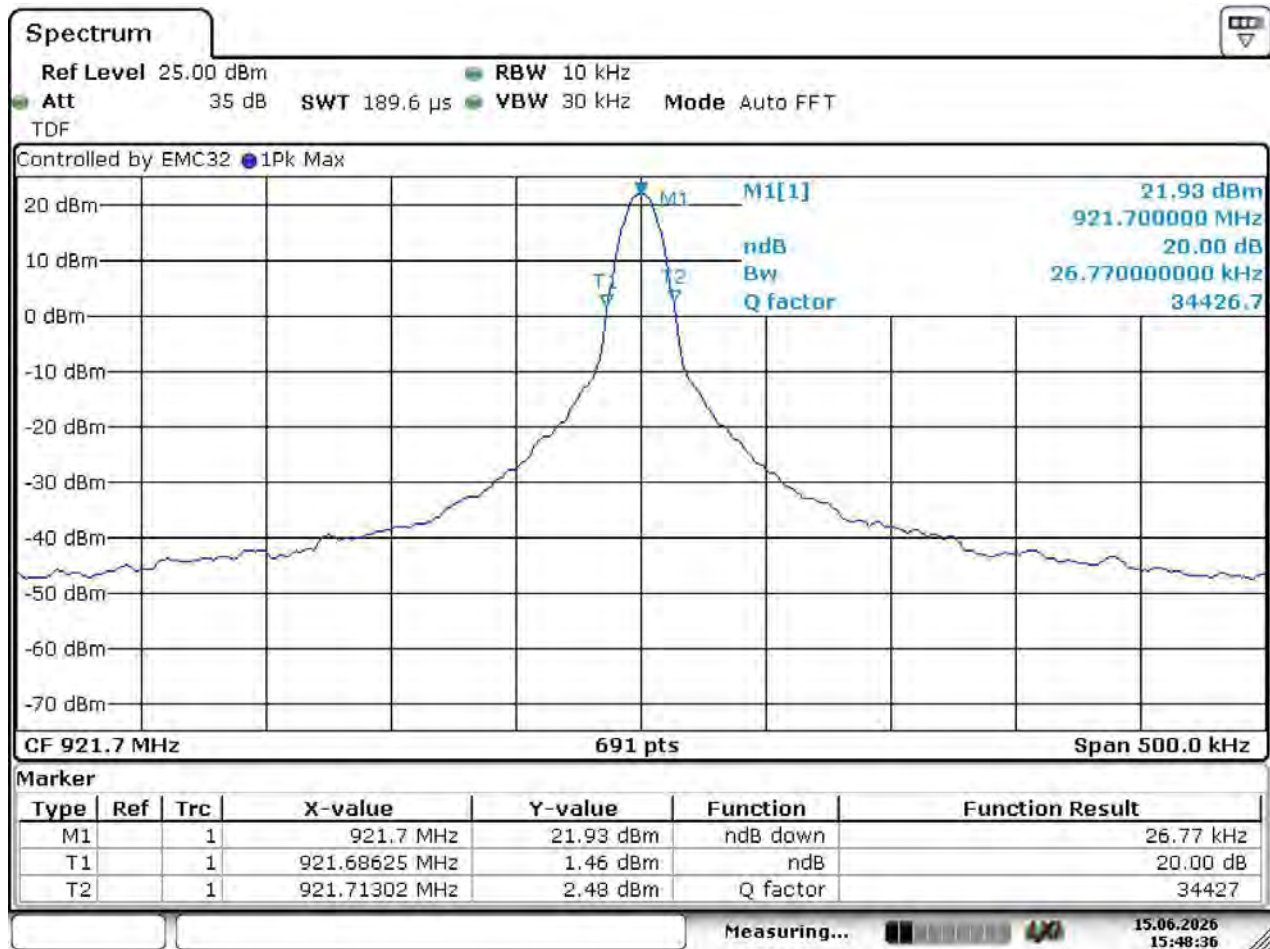
Frequency (MHz)	Occupied bandwidth (kHz)	Limit (kHz)	Conclusion
915.50	27.50	500	PASS
921.70	26.77	500	PASS
927.70	29.67	500	PASS

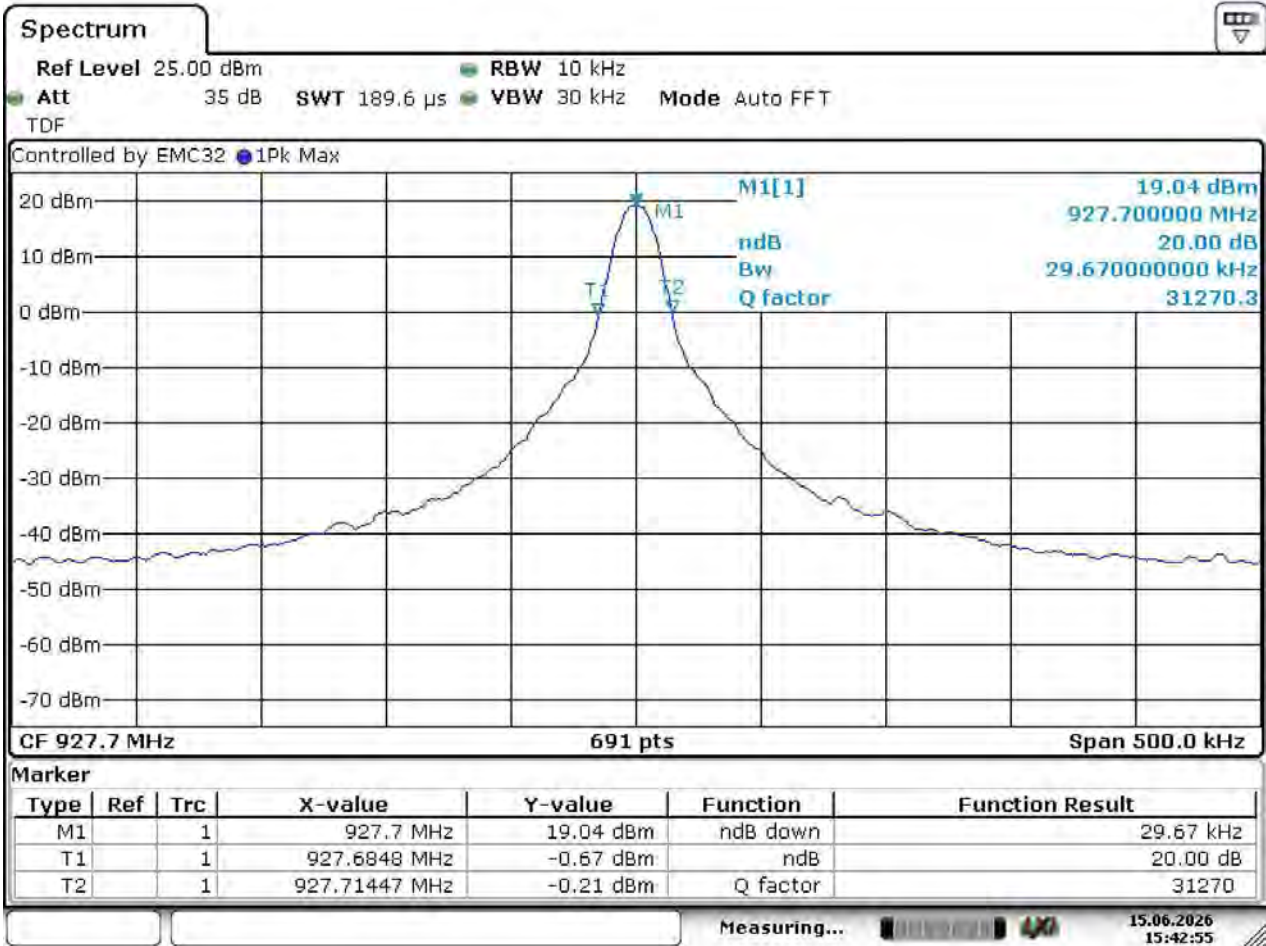
Conclusion: PASS



4.3.1 Test results:







4.4 §15.247 (a) (1) Time of Occupancy (Dwell Time)

Requirement

If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Test procedure:

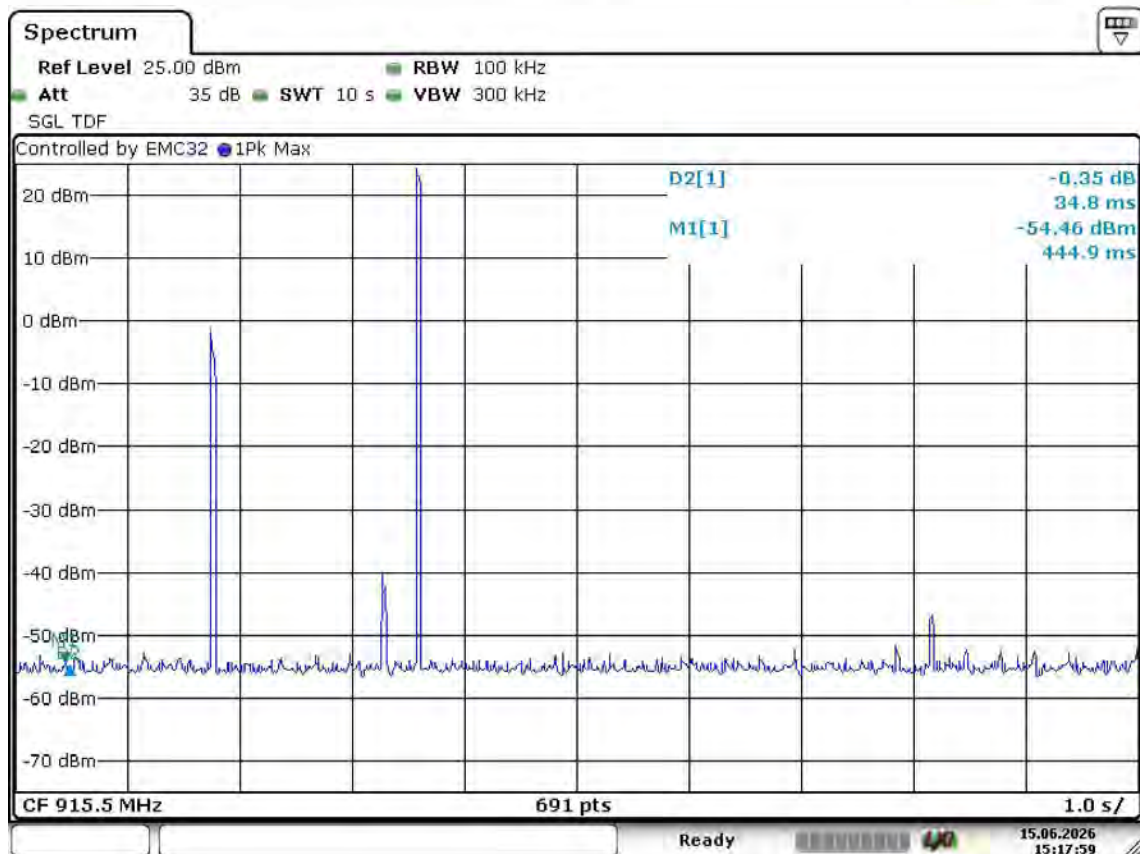
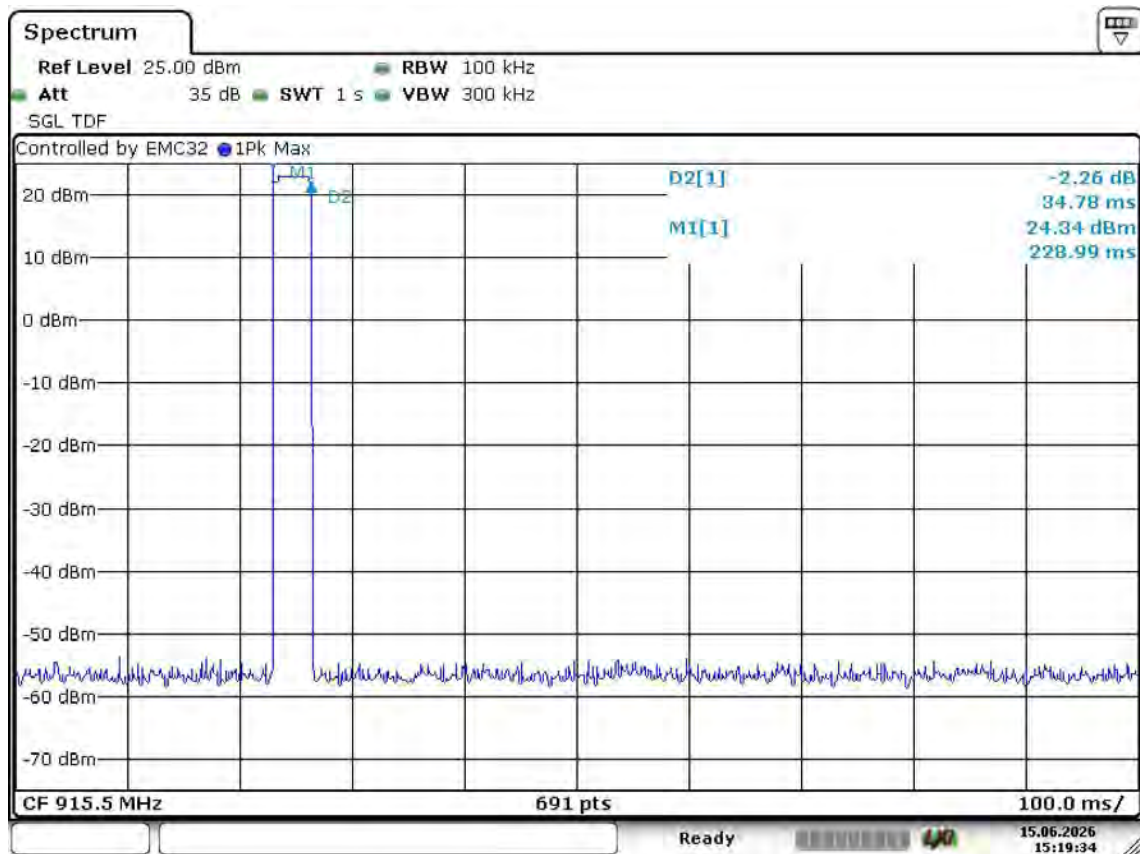
As per Clause 7.8.4 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

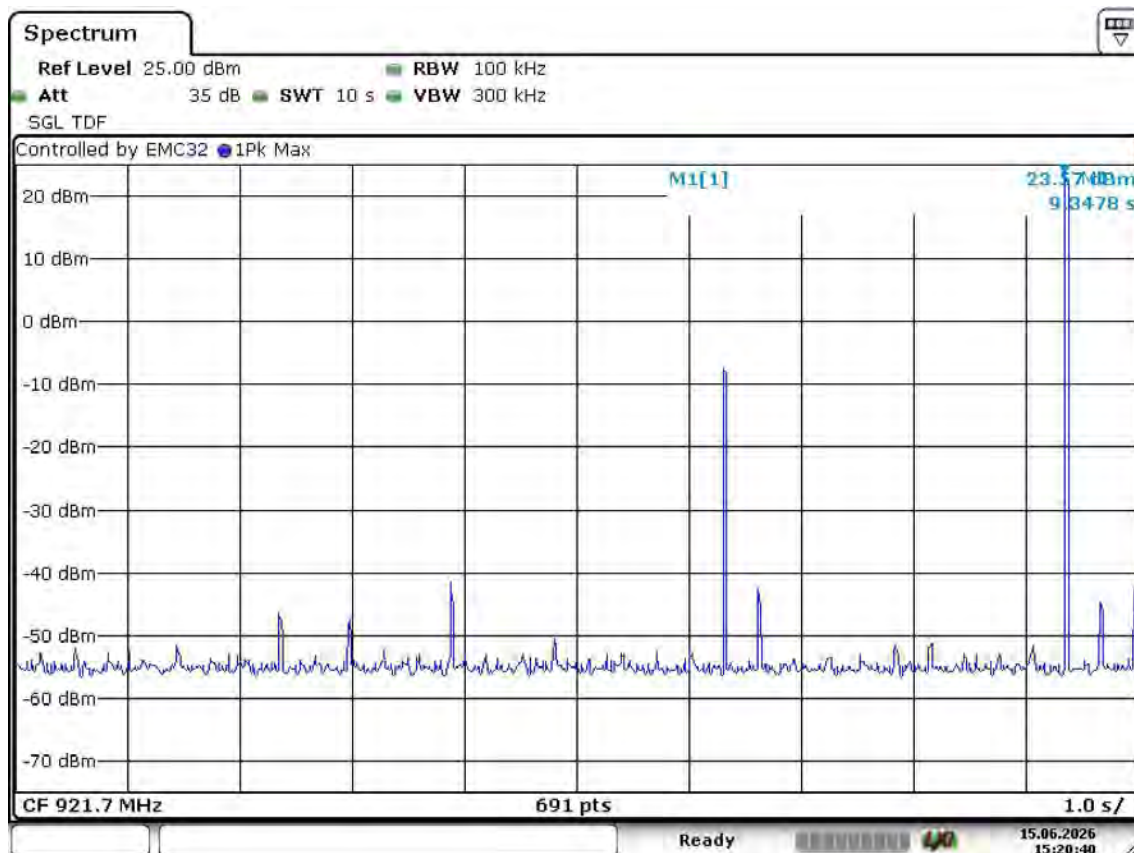
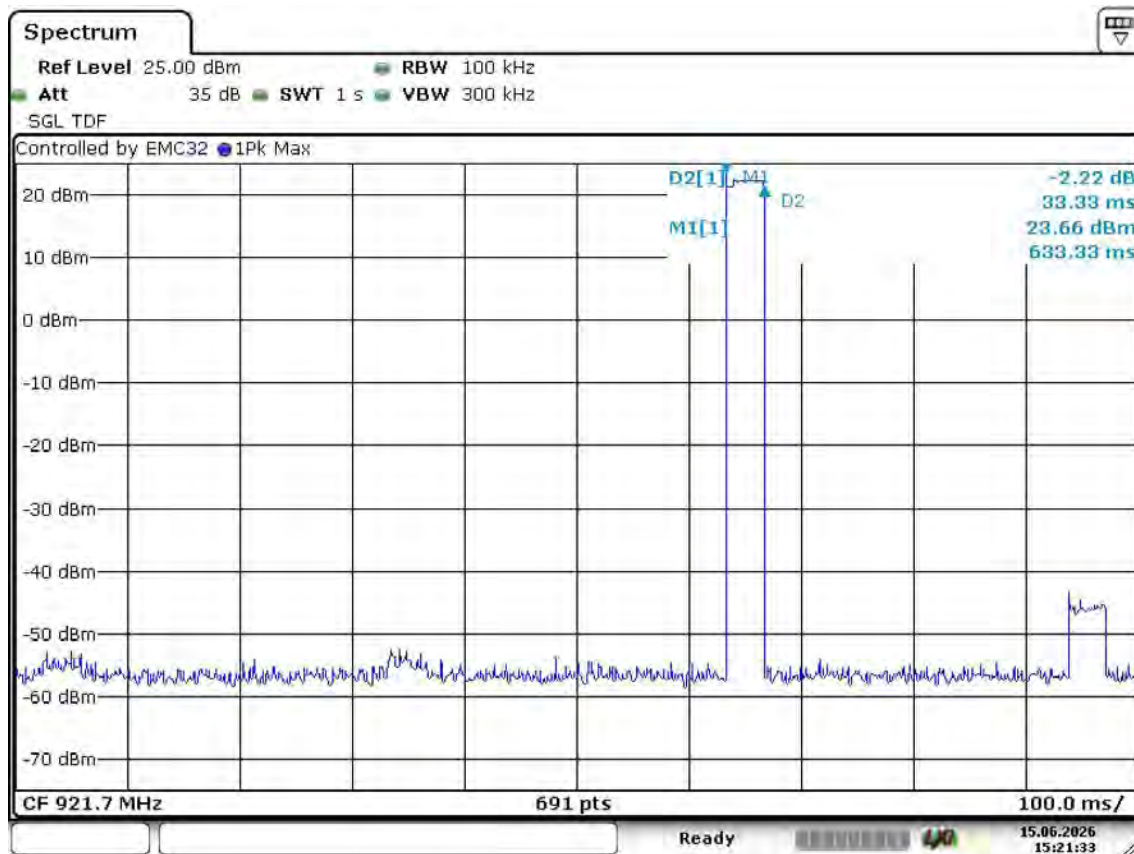
Conclusion: PASS

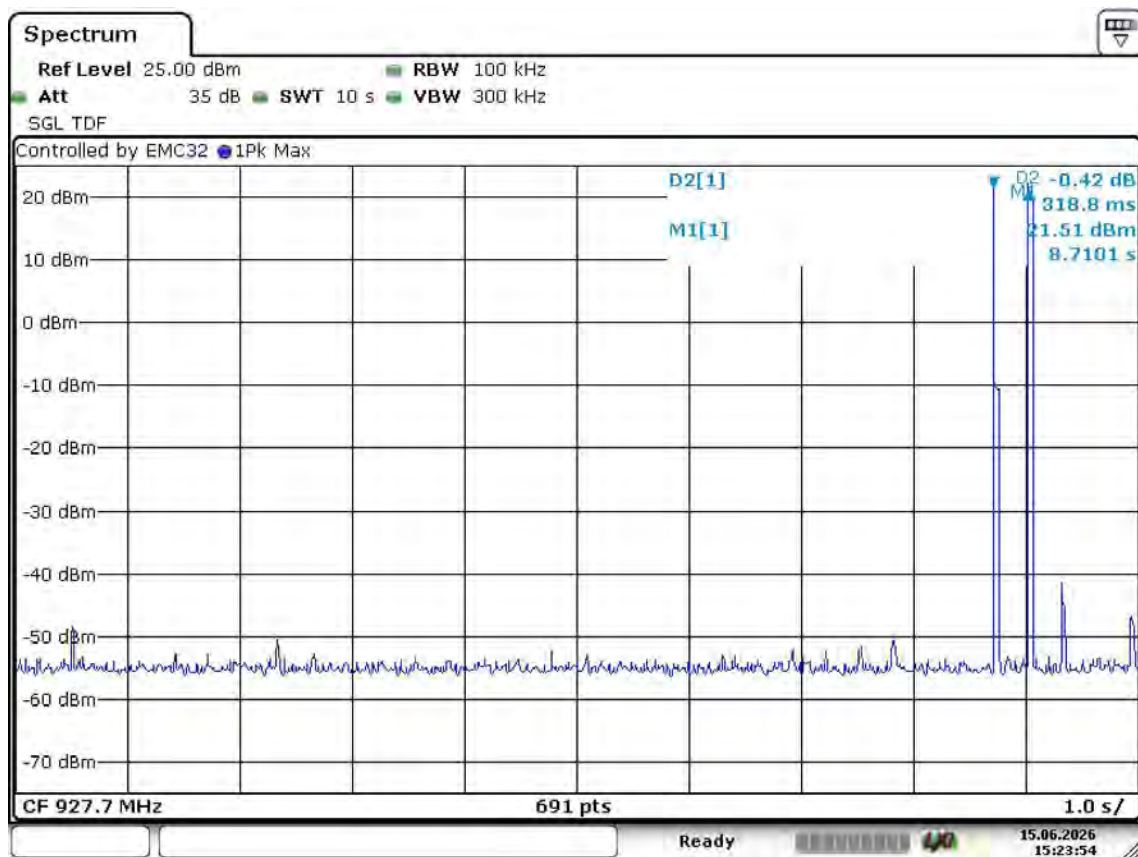
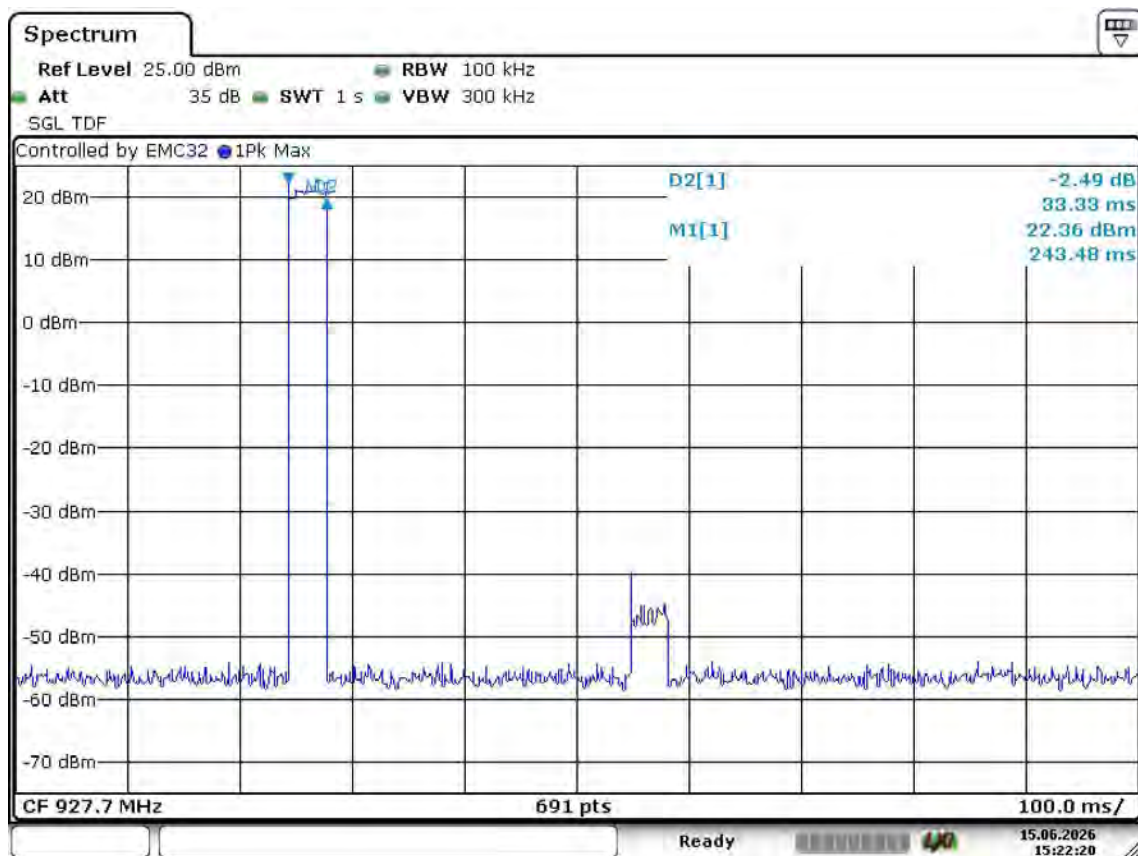
Tabulated test results

Frequency (MHz)	Measured Dwell time (ms)	Maximum occupied dwell time of each frequency (ms)	Limit	Conclusion
915.50	34.78	139.12	400 ms in 20 s period	PASS
921.70	33.33	133.32	400 ms in 20 s period	PASS
927.70	33.33	133.32	400 ms in 20 s period	PASS

4.4.1 Test results:







4.5 §15.247 (a) (1) Number of Hopping Frequencies

Requirement

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies

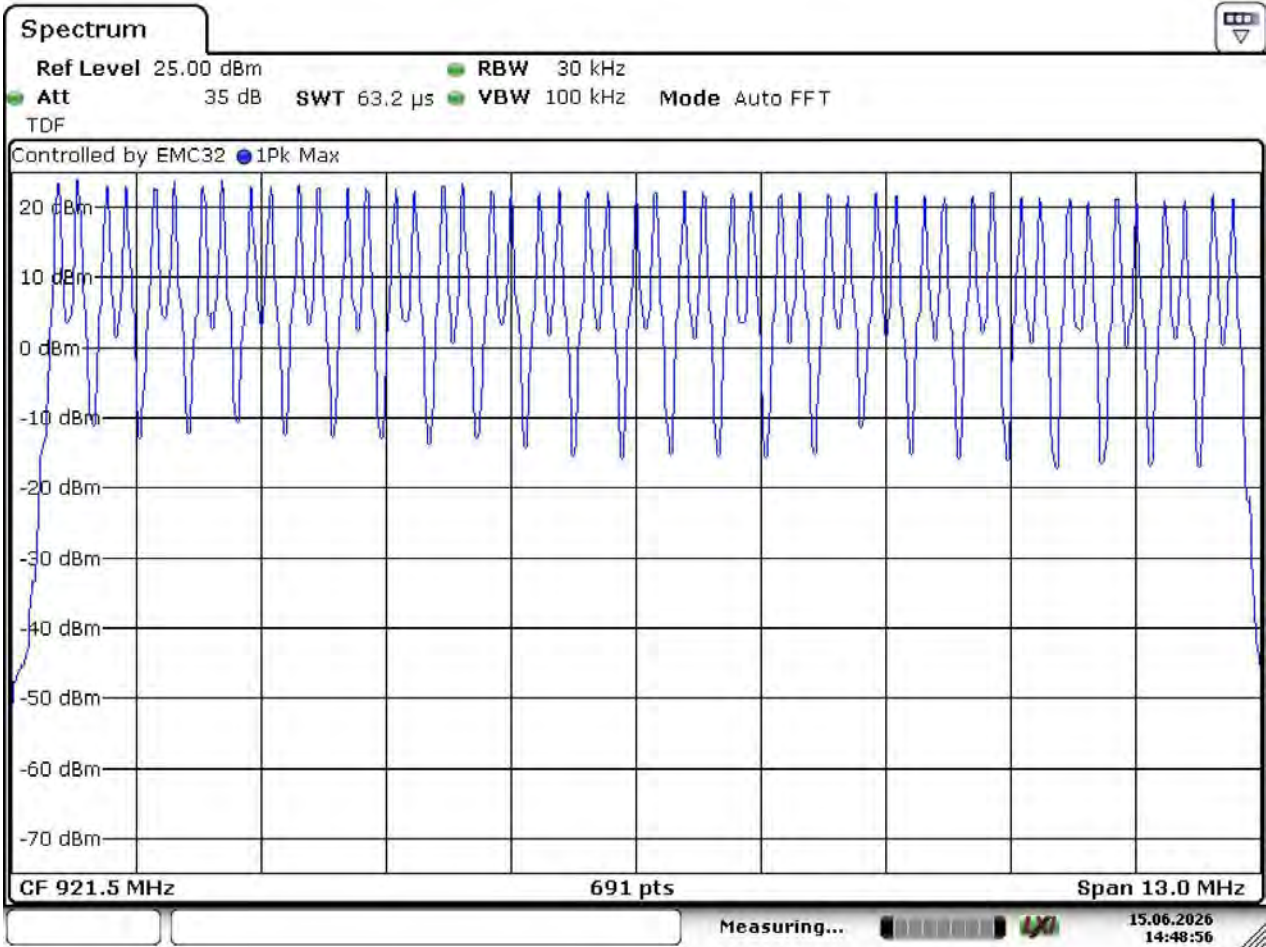
Test procedure:

As per Clause 7.8.3 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

Conclusion: PASS



4.5.1 Test results



4.6 §15.247 (a) (1) Carrier Frequency Separation

Requirement

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Procedure

As per Clause 7.8.2 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

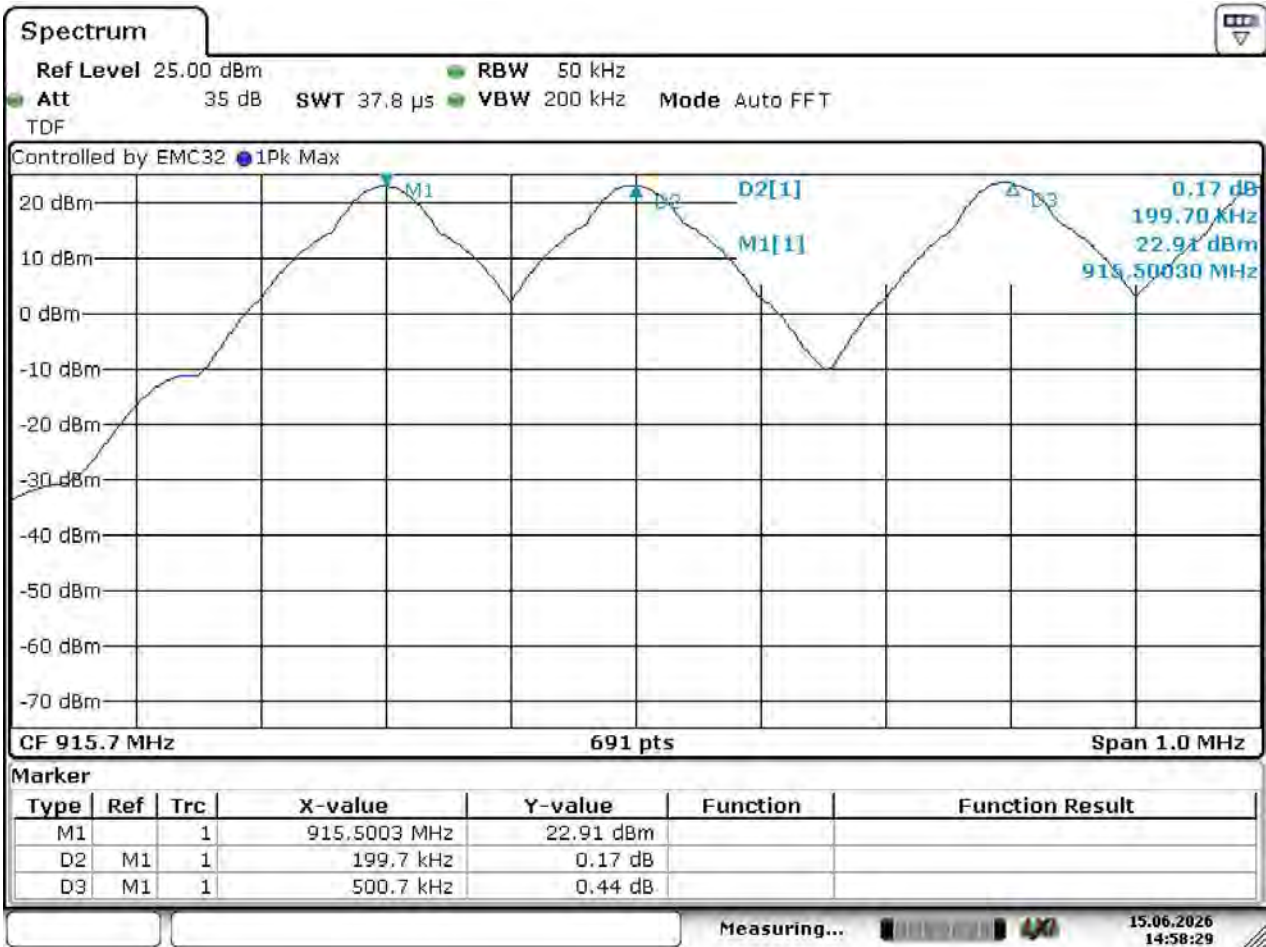
Conclusion: PASS

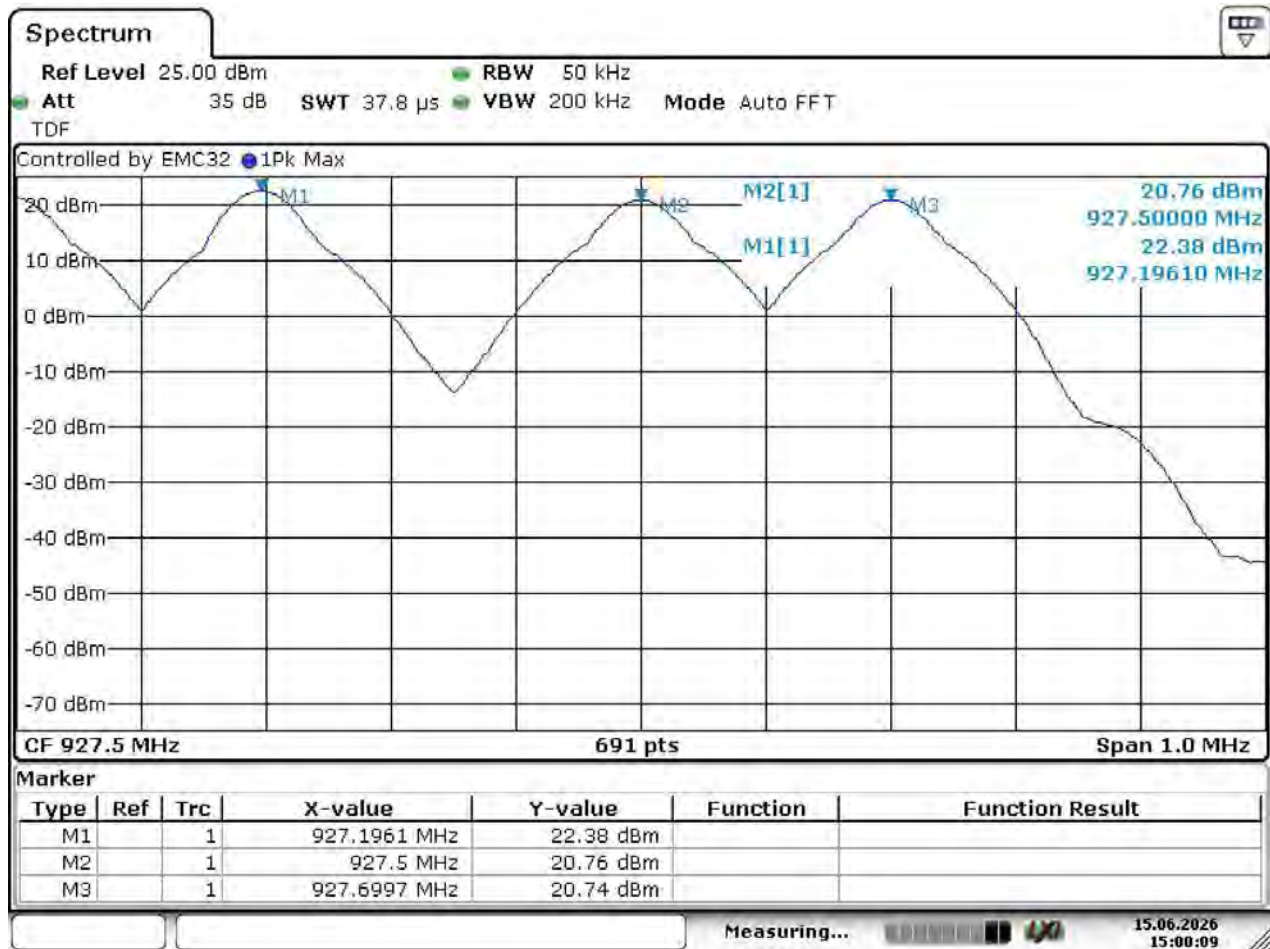
Tabulated test results

Frequency (MHz)	Channel separation (kHz)	Limit (kHz)	Conclusion
915.50	199.7	29.67	PASS
927.70	199.7	29.67	PASS



4.6.1 Test results







4.7 §15.247 (b) Peak Power Output

Requirement

The maximum peak conducted output power of the intentional radiator shall not exceed the following:
For frequency hopping systems operating in the 902-928 MHz band: 1 watt (30 dBm) for systems employing at least 50 hopping channels.

Test Procedure

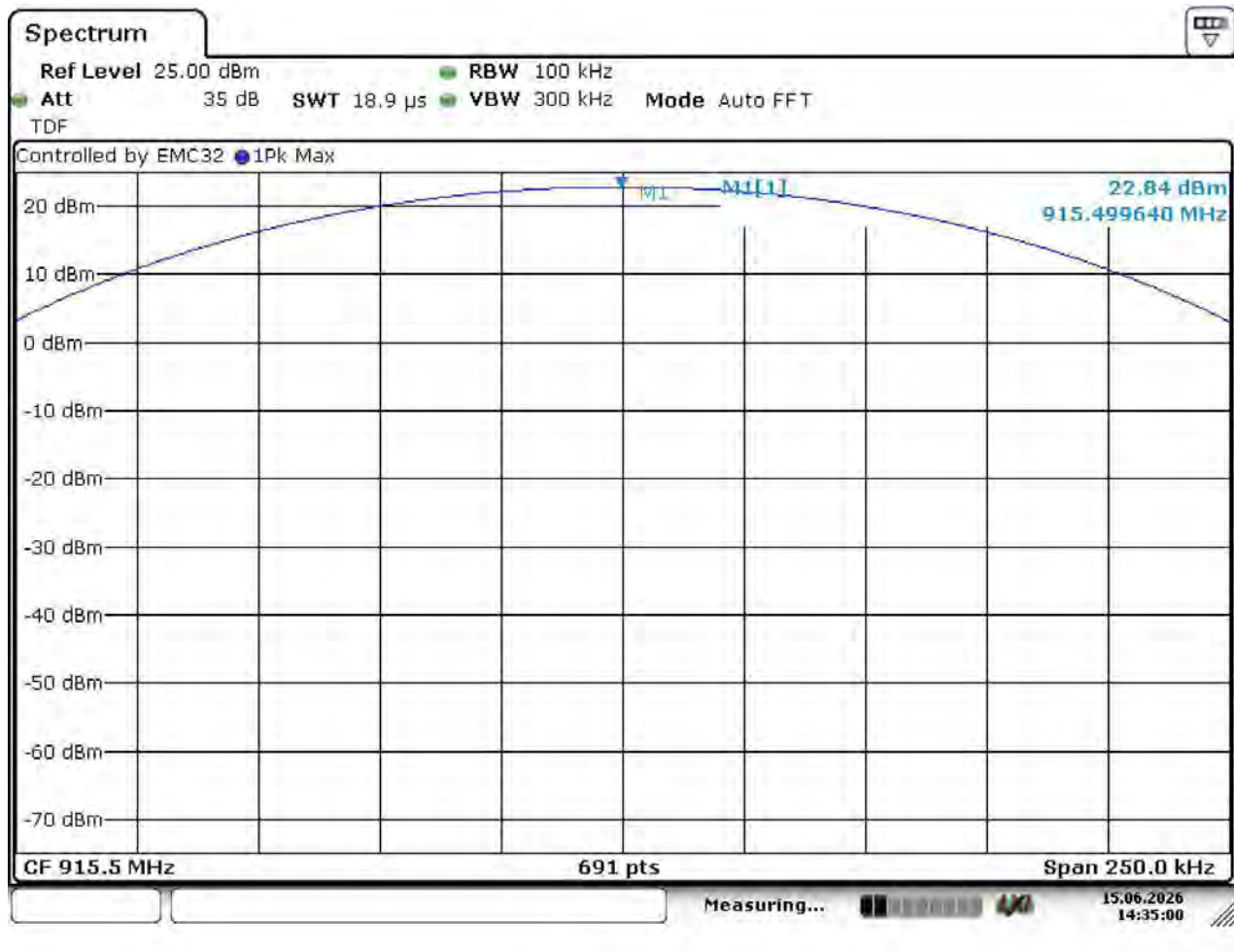
As per Clause 7.8.5 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

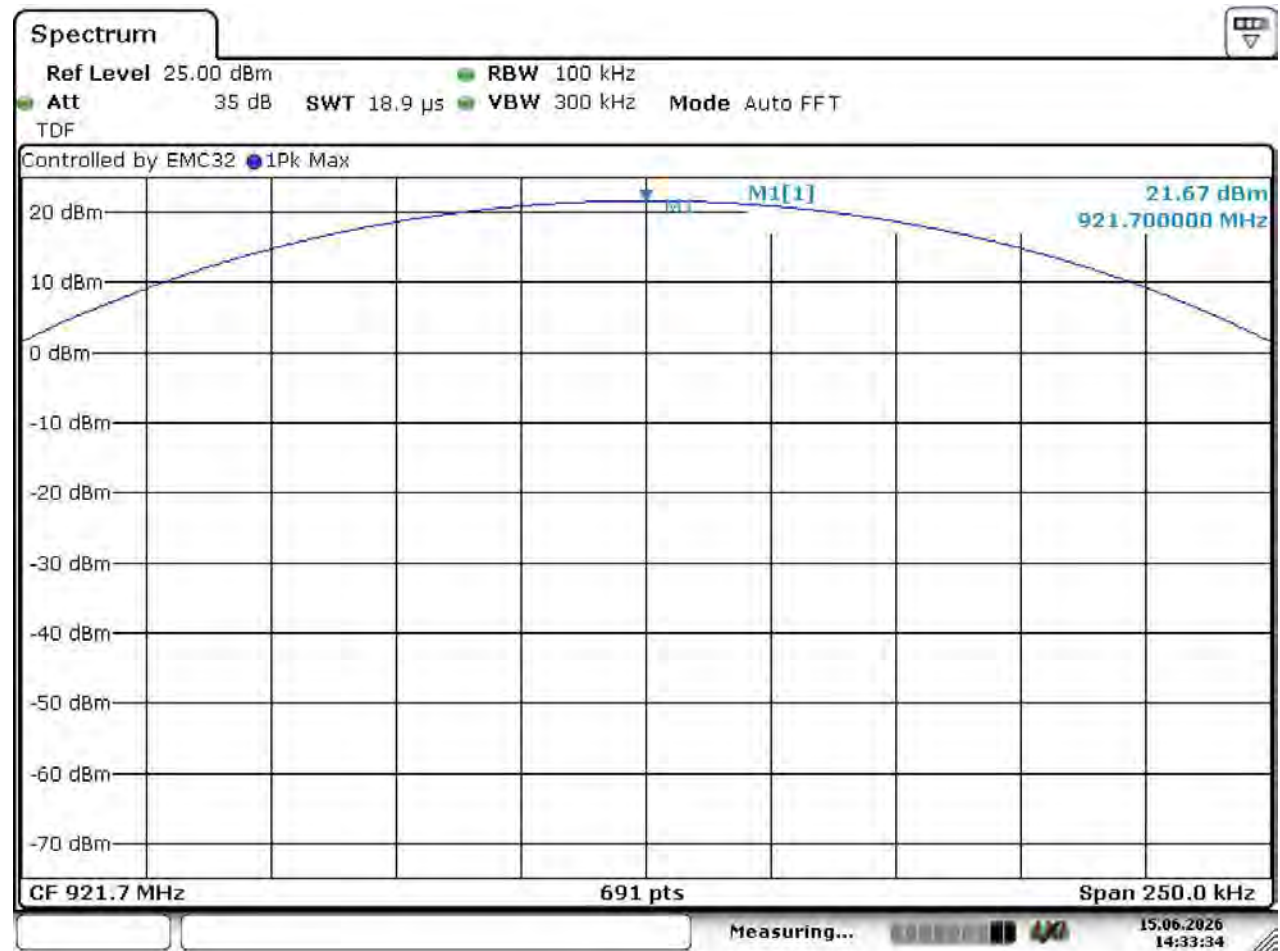
Conclusion: PASS

Tabulated test results

Frequency (MHz)	Receiver reading (dBm)	Peak conducted output power (W)	Limit (W)	Conclusion
915.50	22.84	0.1923	1	PASS
921.70	21.67	0.1469	1	PASS
927.70	19.83	0.0962	1	PASS

4.7.1 Test results









4.8 §15.247 (c) Spurious RF Conducted Emissions

Requirement:

In any 100 kHz bandwidth outside the frequency band in which the 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.

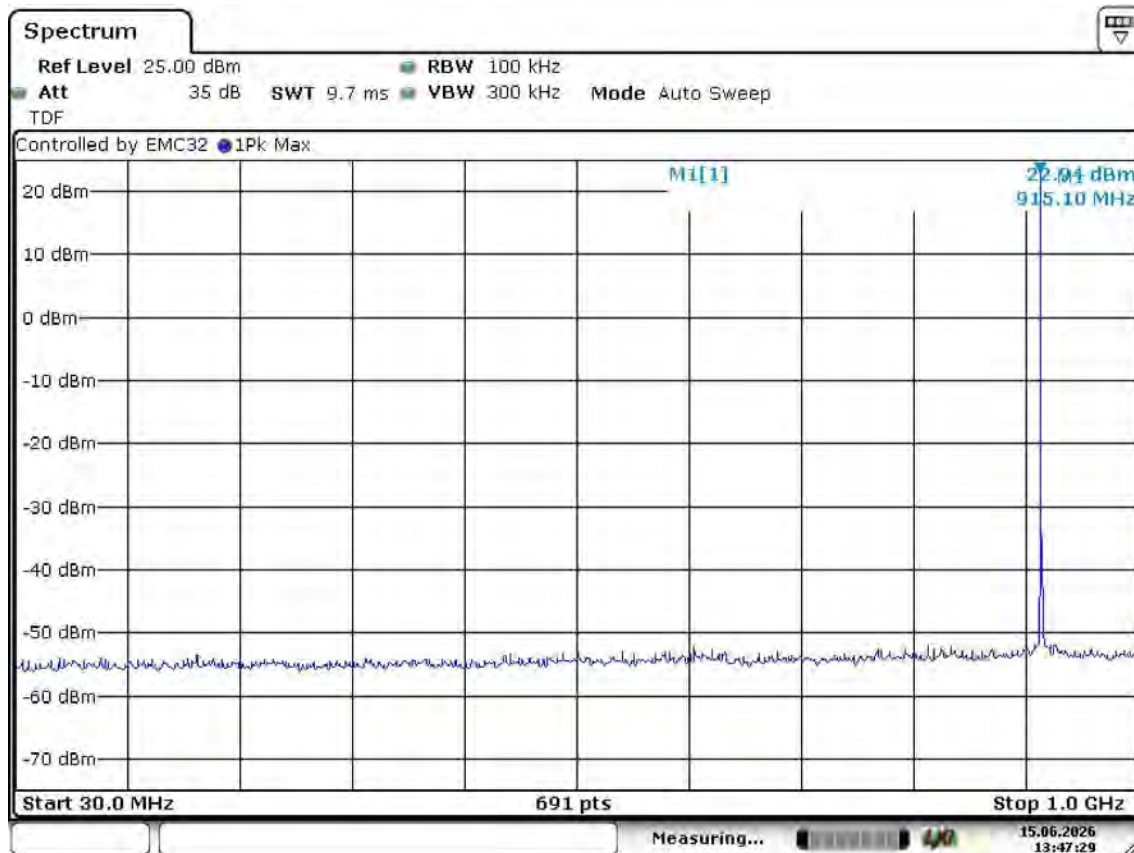
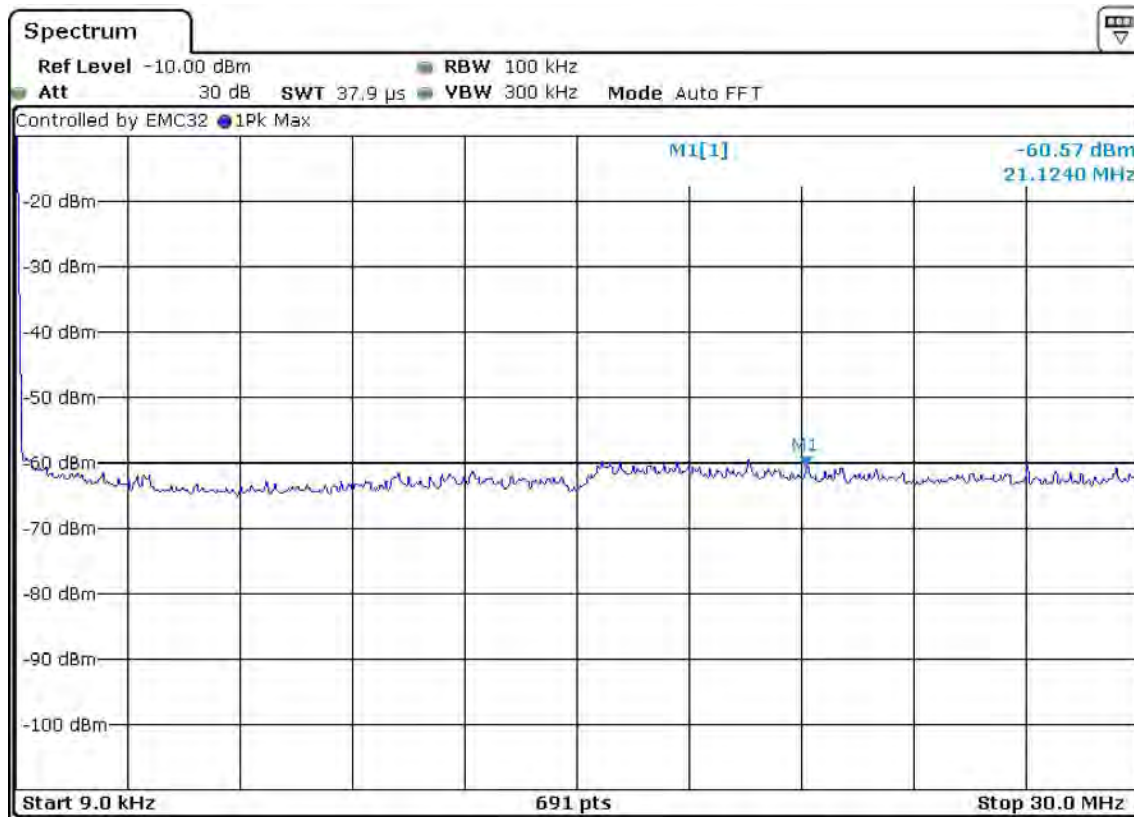
Test Procedure

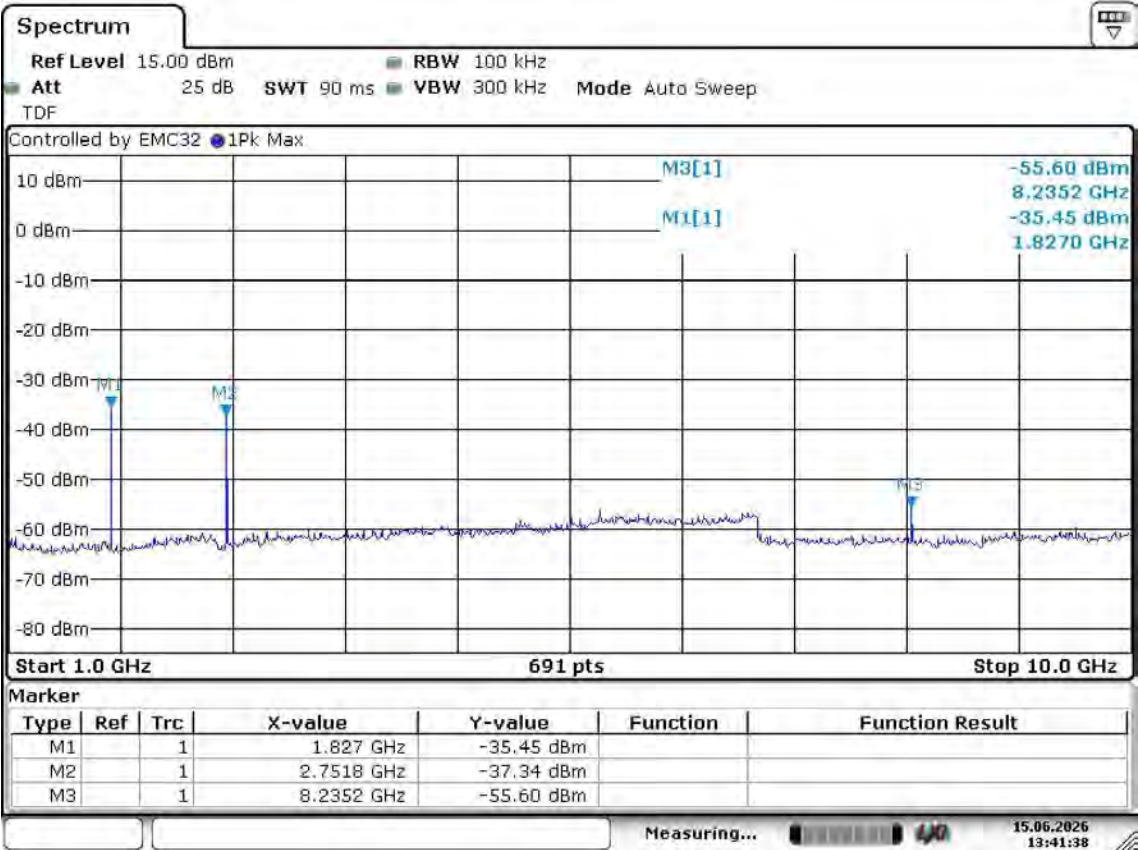
As per Clause 7.8.8 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

Conclusion: PASS

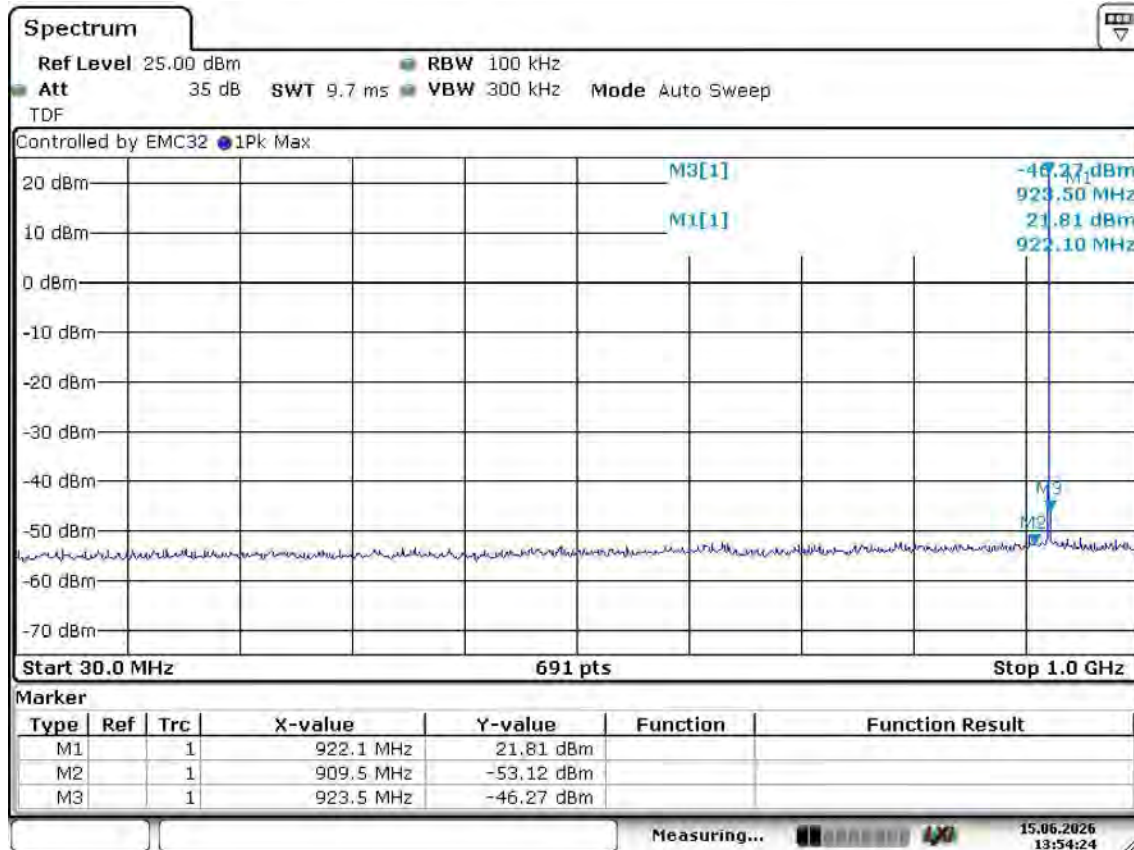
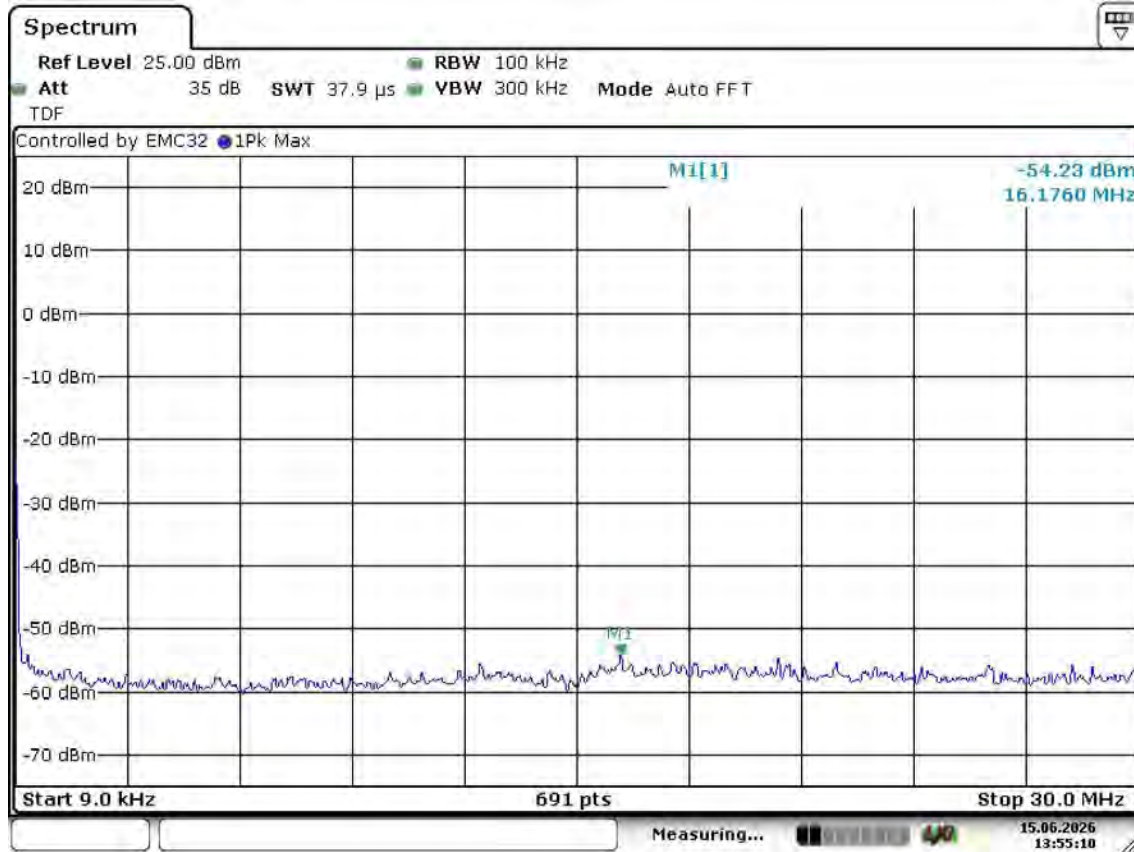
4.8.1 Test results

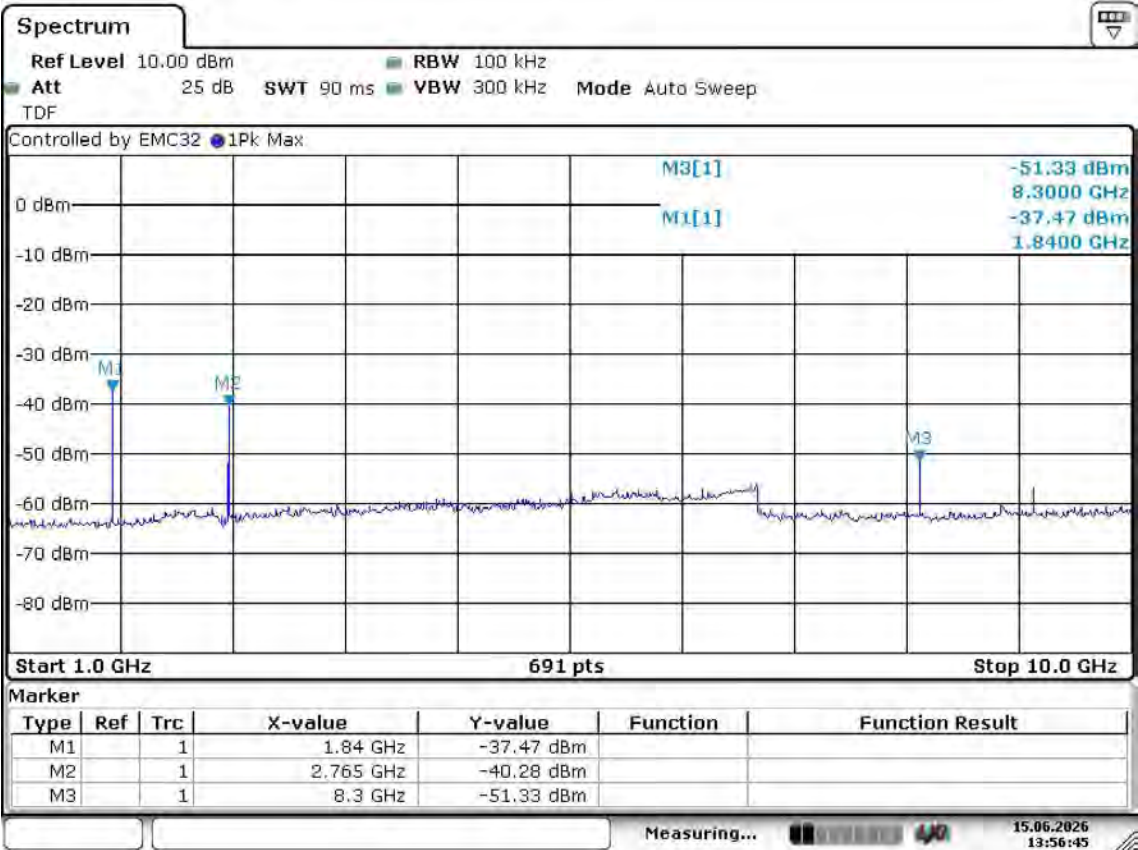
915.50 MHz



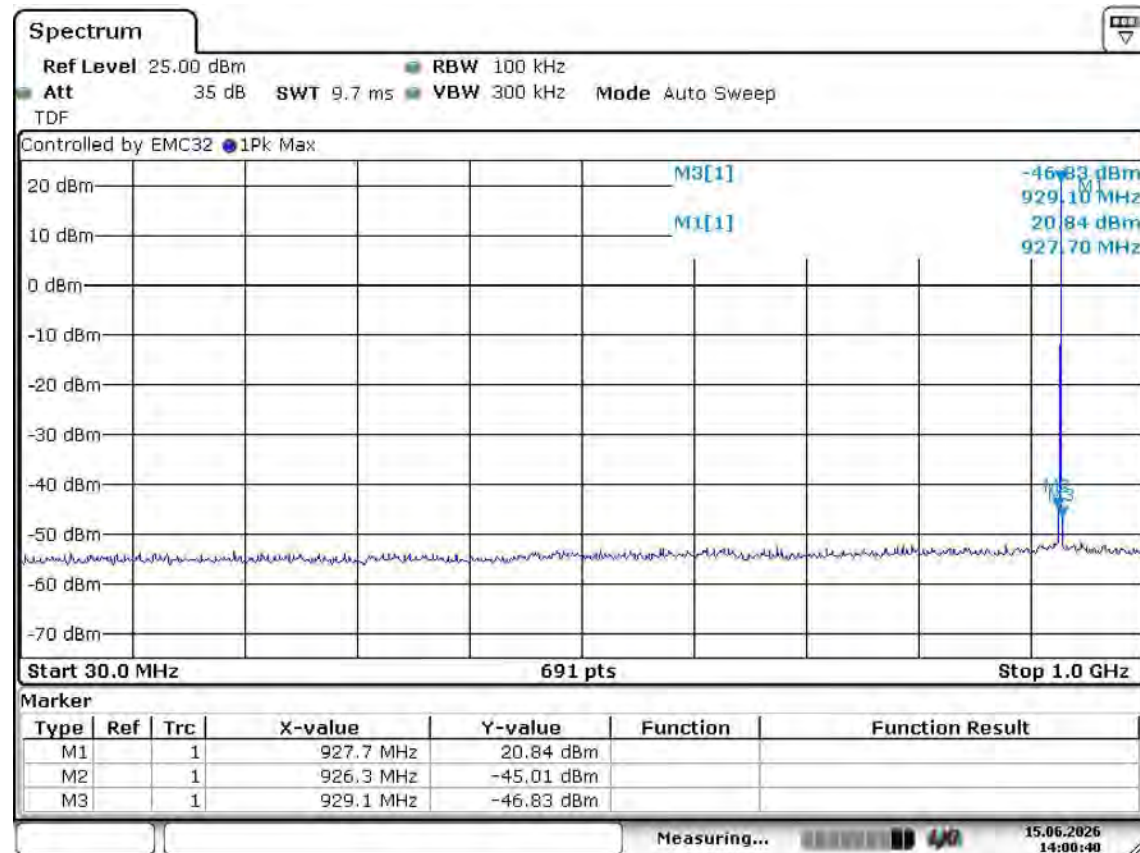
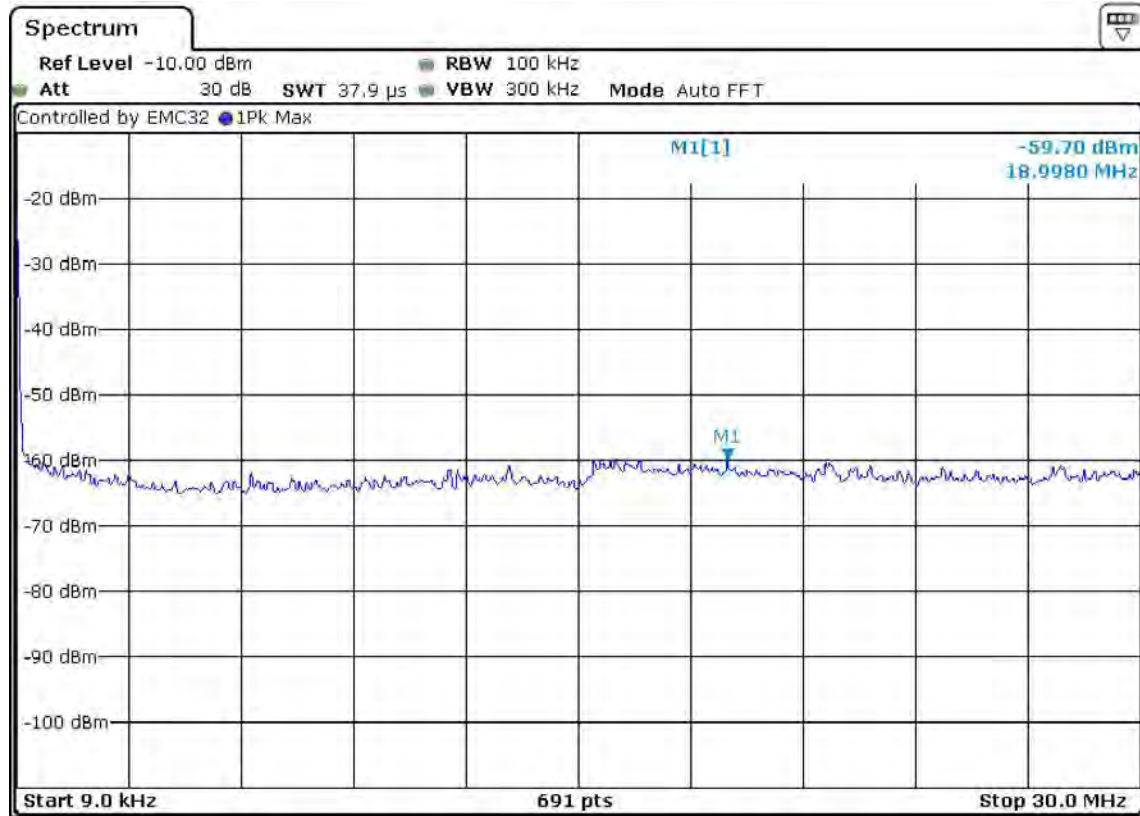


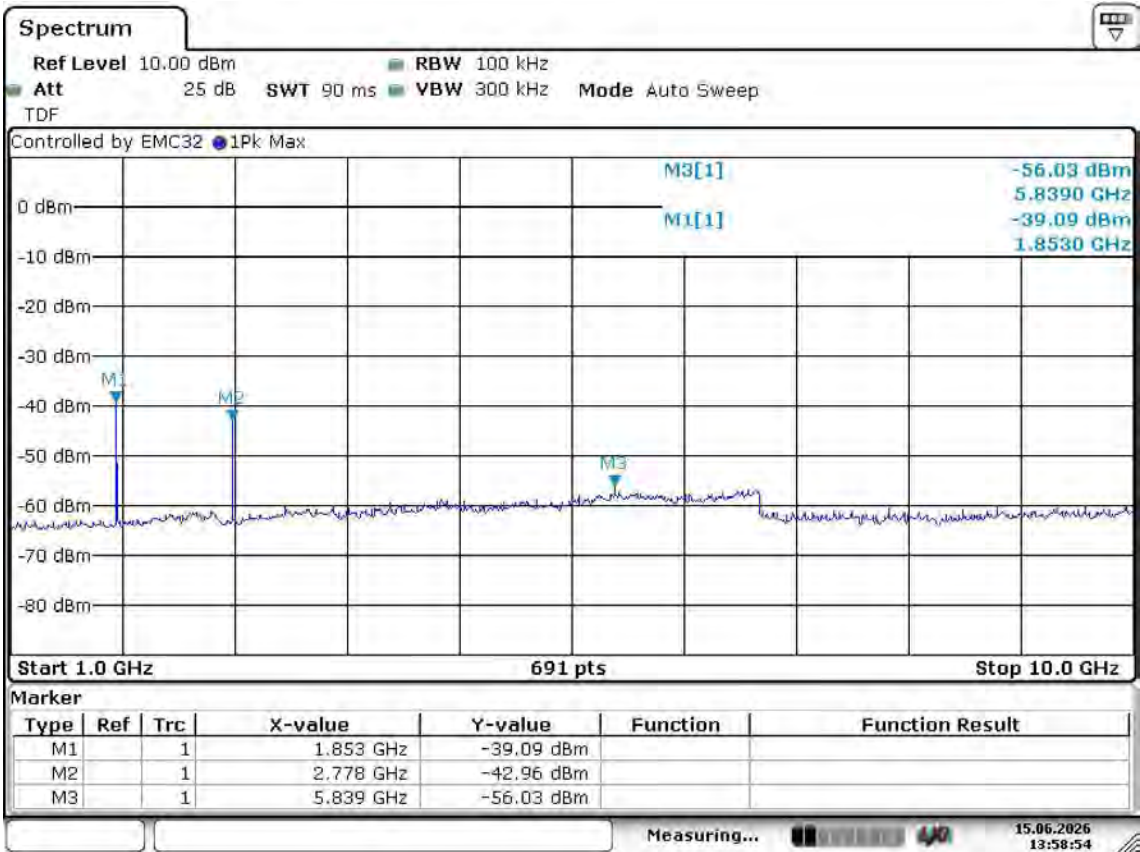
921.70 MHz





927.70 MHz





4.9 §15.247 Radiated Spurious Emissions

Requirements

§15.35 Measurement detector functions and bandwidths

(b) Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz. When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519 of this part, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device, e.g., the total peak power level. Note that the use of a pulse desensitization correction factor may be needed to determine the total peak emission level. The instruction manual or application note for the measurement instrument should be consulted for determining pulse desensitization factors, as necessary.

§15.209 Radiated emission limit

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency Range (MHz)	Limits (dBµV/m)	Test distance (m)
0,009 to 0,490	$20 \cdot \log(2400/F(\text{kHz}))$	300
0,490 to 1,705	$20 \cdot \log(24000/F(\text{kHz}))$	30
1,705 to 30,0	30	30
30 to 88	40**	3
88 to 216	43.5**	3
216 to 960	46**	3
Above 960	54	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.



§15.205 Restricted bands of operation

Requirement

Except as shown in paragraph (d) of §15.205 only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

Test procedure

As per Clauses 6.3, 6.4, 6.5 and 6.6 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

Conclusion: PASS

4.9.1 Test results

915.50 MHz

EUT Information

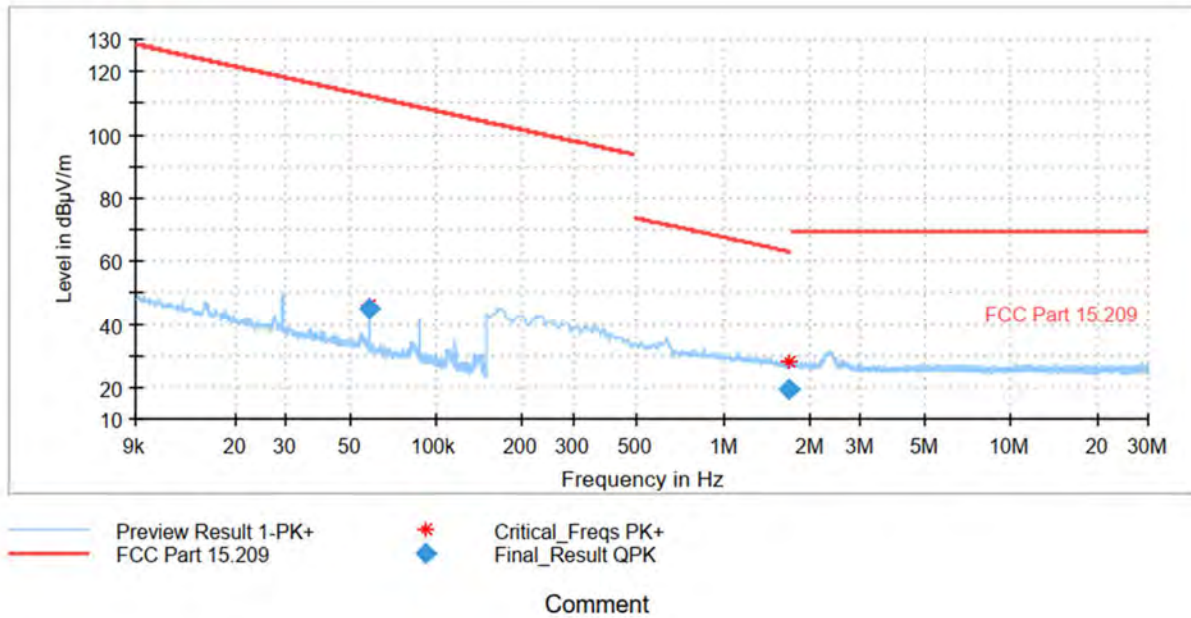
EUT:

CT47SLED

Operating mode:

TX 915,50 MHz

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.058600	44.77	112.24	67.47	1000.0	0.200	100.0	H	40.0	17.4
1.693500	19.31	63.06	43.75	1000.0	9.000	100.0	H	228.0	17.1

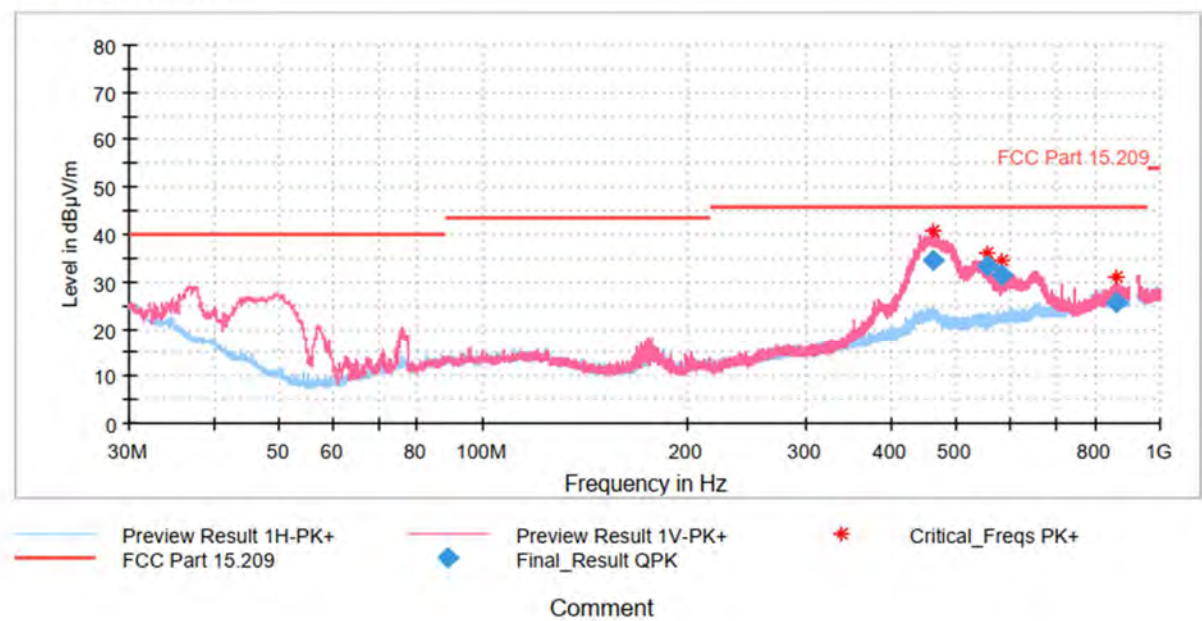


EUT Information

EUT:
Operating mode:

CT47SLED
TX 915,50 MHz

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
461.070000	34.48	---	46.00	11.52	100.0	V	149.0
555.960000	33.44	---	46.00	12.56	100.0	V	102.0
583.080000	31.38	---	46.00	14.62	100.0	V	41.0
864.000000	25.61	---	46.00	20.39	100.0	V	75.0

EUT Information

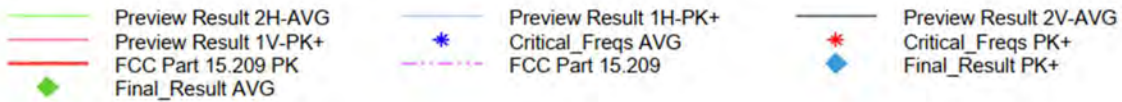
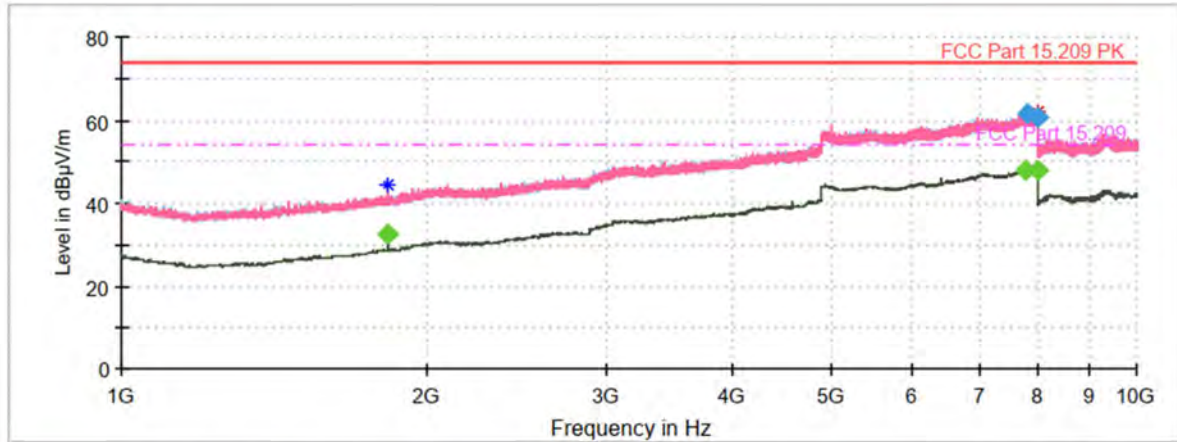
EUT:

CT47SLED

Operating mode:

TX 915,50 MHz

Full Spectrum



Comment

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1831.000000	---	32.42	54.00	21.58	158.0	V	0.0
7749.500000	---	47.78	54.00	6.22	185.0	V	356.0
7813.500000	61.32	---	74.00	12.68	147.0	V	303.0
7996.000000	60.48	---	74.00	13.52	185.0	H	64.0
7998.250000	---	47.89	54.00	6.11	166.0	H	64.0



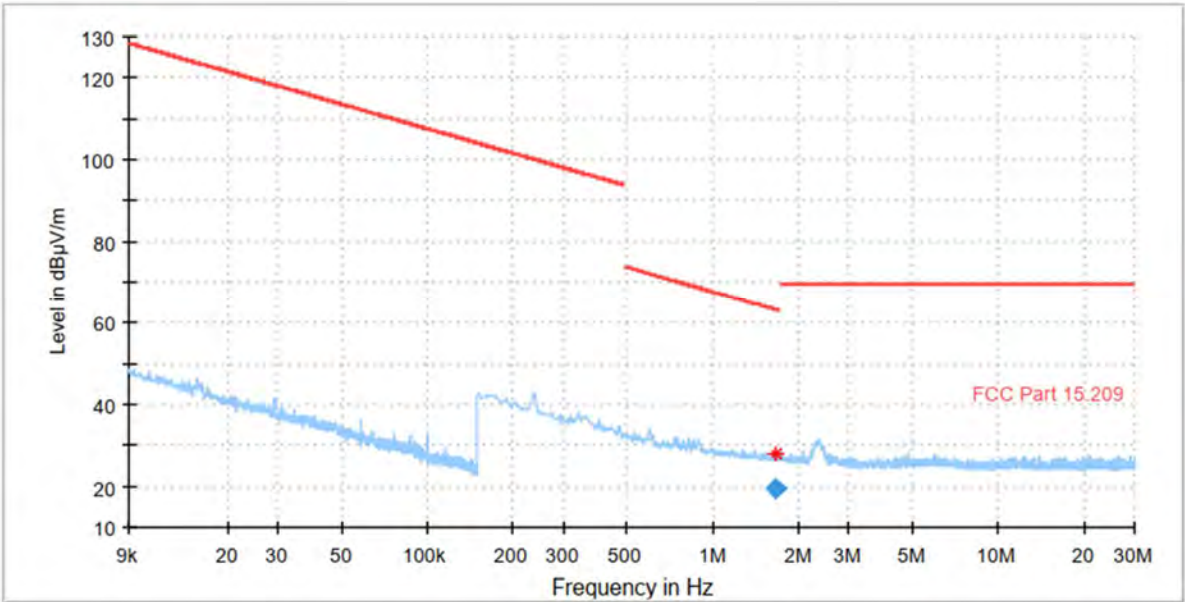
921.70 MHz

EUT Information

EUT:
Operating mode:

CT47SLED
TX 921,70 MHz

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1.671000	19.19	63.17	43.99	1000.0	9.000	100.0	H	12.0	17.1

EUT Information

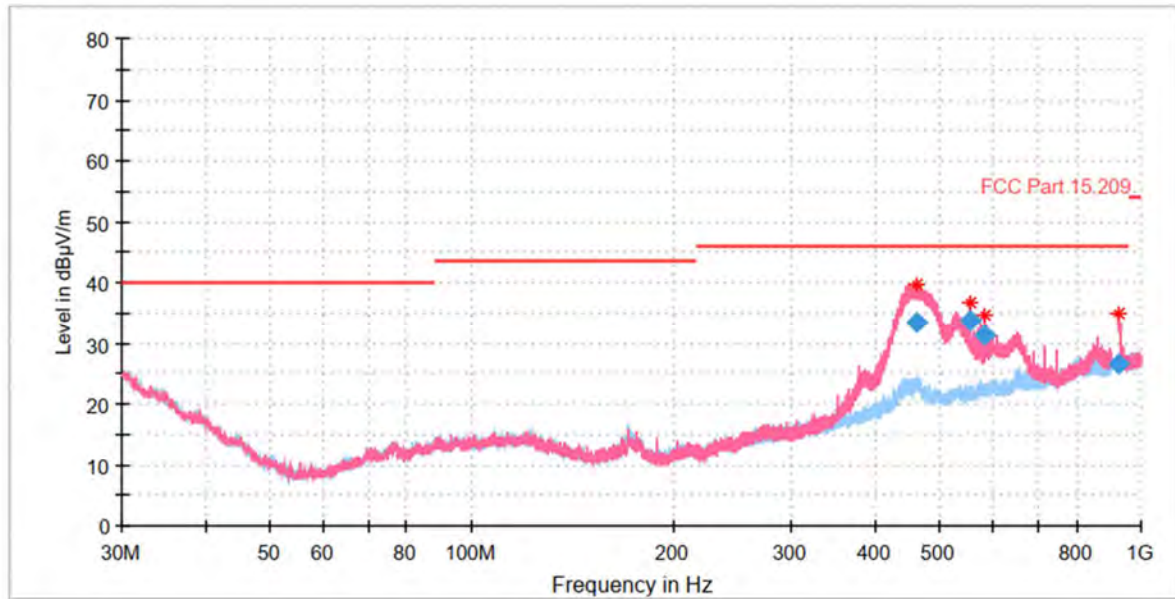
EUT:

CT47SLED

Operating mode:

TX 921,70 MHz

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	DET 2 (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
462.510000	33.31	---	46.00	12.69	100.0	V	178.0
555.960000	33.60	---	46.00	12.40	100.0	V	148.0
583.080000	31.20	---	46.00	14.80	100.0	V	49.0
928.090000	26.66	---	46.00	19.34	100.0	V	153.0

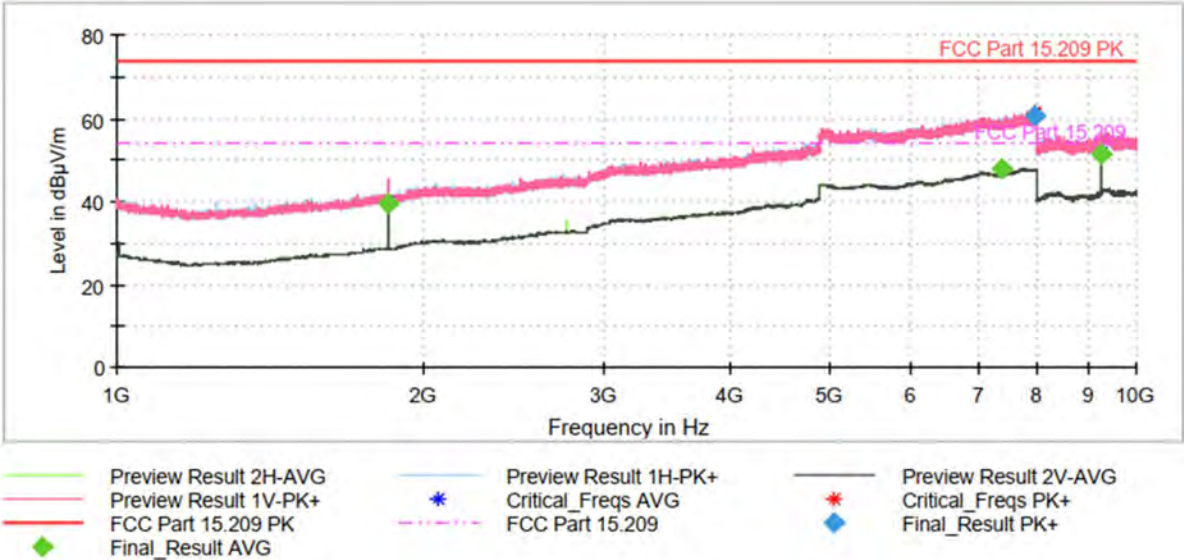


EUT Information

EUT:
Operating mode:

CT47SLED
TX 921,70 MHz

Full Spectrum



Comment

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1843.500000	---	39.69	54.00	14.31	139.0	V	135.0
7373.500000	---	47.75	54.00	6.25	146.0	H	54.0
7961.500000	60.57	---	74.00	13.43	139.0	H	357.0
9217.000000	---	51.48	54.00	2.52	175.0	H	138.0

927.70 MHz

EUT Information

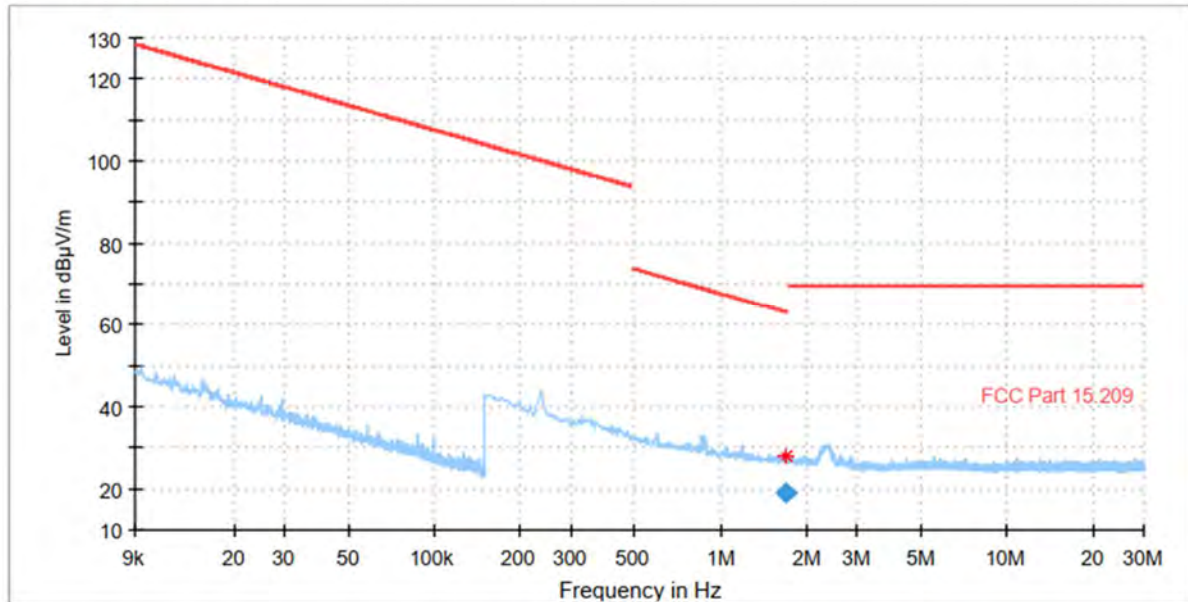
EUT:

CT47SLED

Operating mode:

TX 927,70 MHz

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1.677750	18.96	63.14	44.18	1000.0	9.000	100.0	H	19.0	17.1

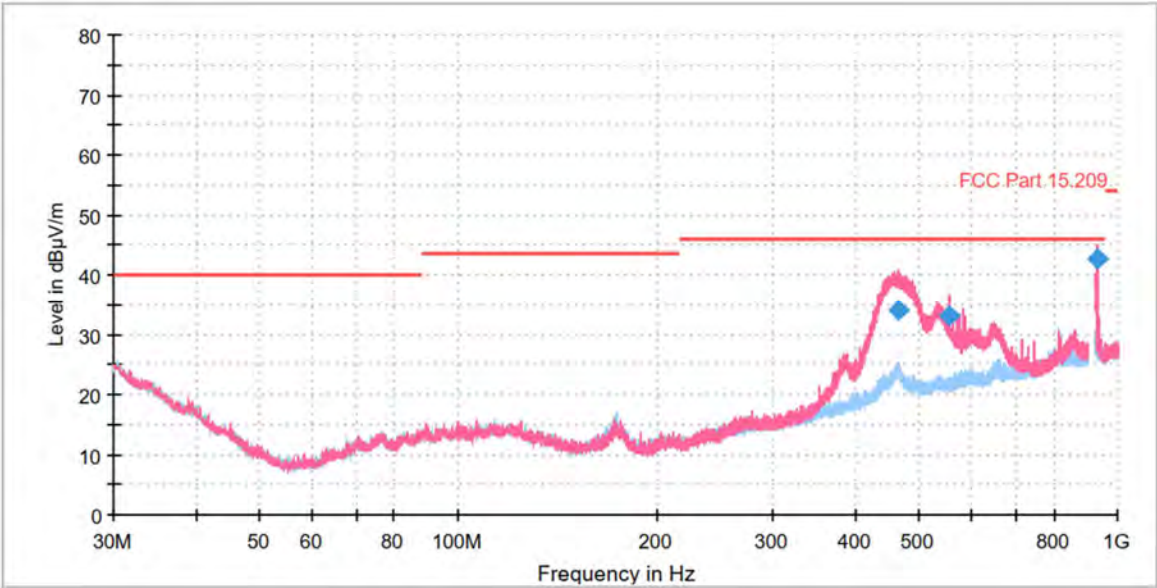


EUT Information

EUT:
Operating mode:

CT47SLED
TX 927,70 MHz

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
466.830000	33.99	---	46.00	12.01	106.0	V	104.0
555.960000	33.14	---	46.00	12.86	100.0	V	104.0
929.230000	42.71	---	46.00	3.29	103.0	V	180.0

EUT Information

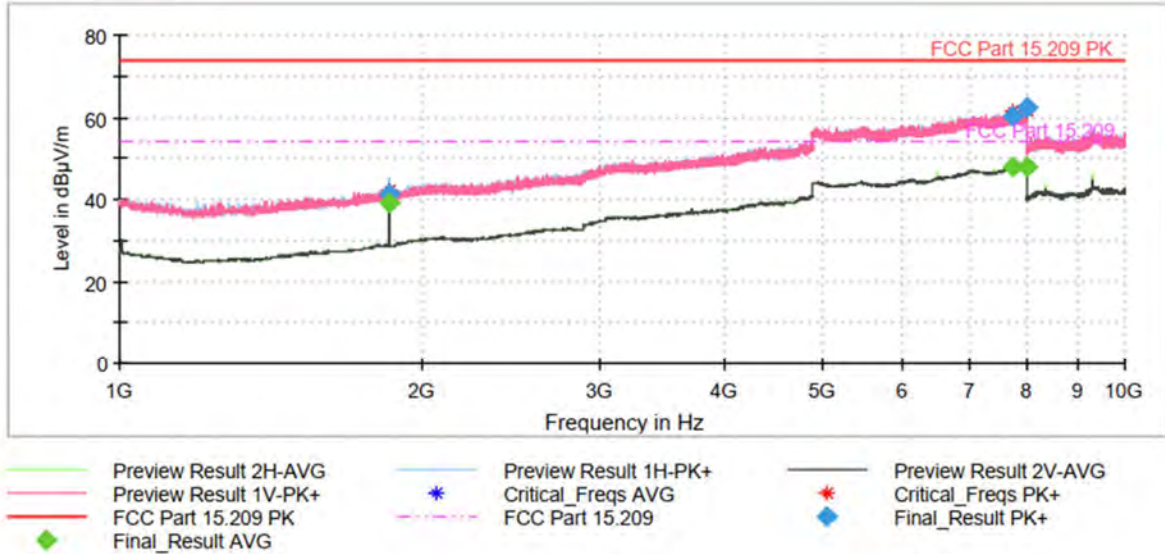
EUT:

CT47SLED

Operating mode:

TX 927,70 MHz

Full Spectrum



Comment

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1855.500000	41.39	---	74.00	32.61	176.0	H	22.0
1855.500000	---	39.07	54.00	14.93	176.0	H	22.0
7717.750000	60.35	---	74.00	13.65	148.0	H	100.0
7748.000000	---	47.84	54.00	6.16	164.0	V	223.0
7996.250000	62.48	---	74.00	11.52	181.0	H	100.0
7998.250000	---	47.96	54.00	6.04	139.0	H	100.0



4.10 §15.247 (d) Band-edge Compliance

Requirement

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 §15.209(a) is not required. 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) (see §15.205(c)).

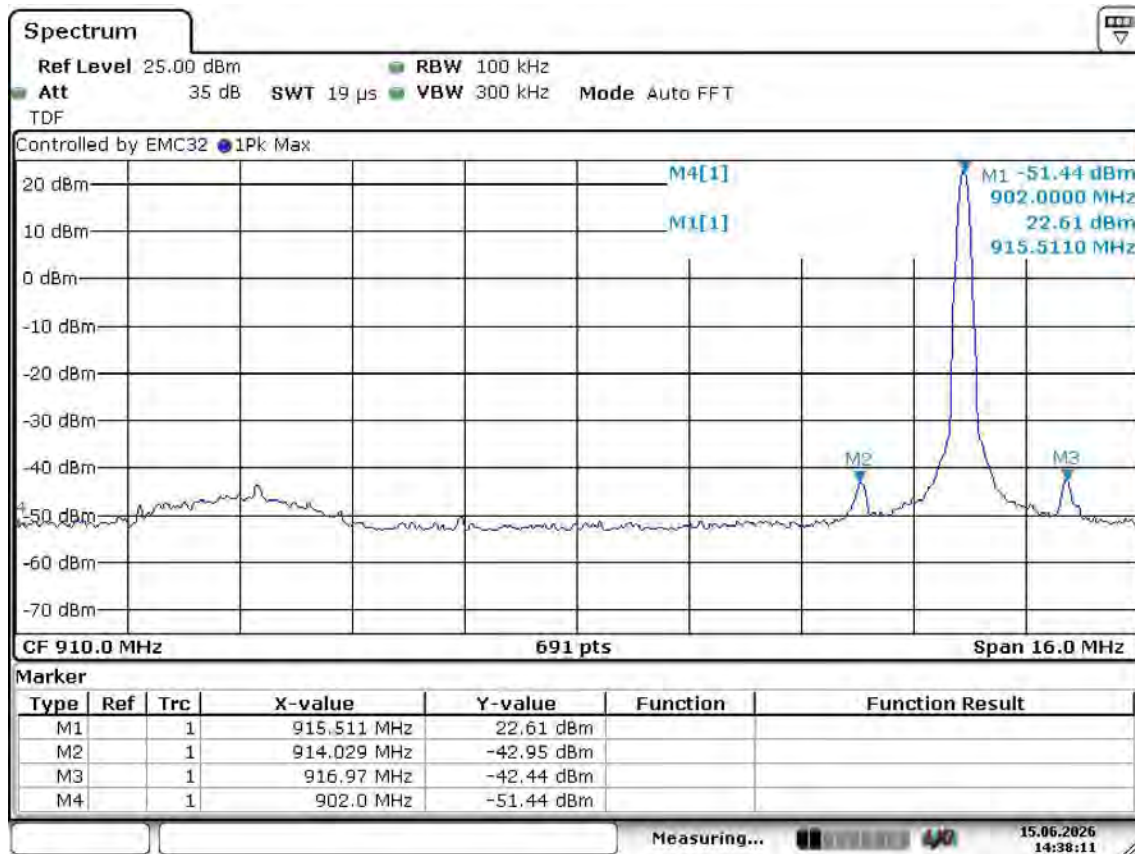
Test Procedure

As per Clause 7.8.6 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

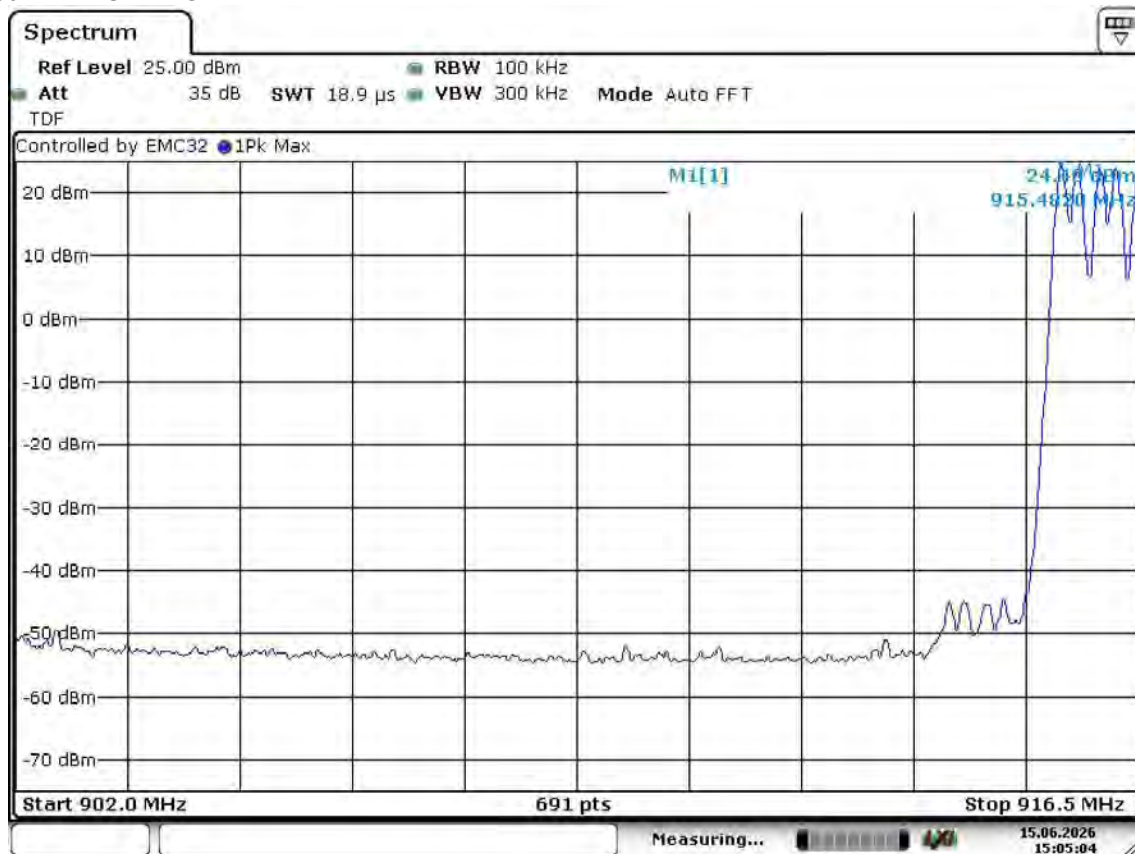
Conclusion: PASS

4.10.1 Conducted measurement

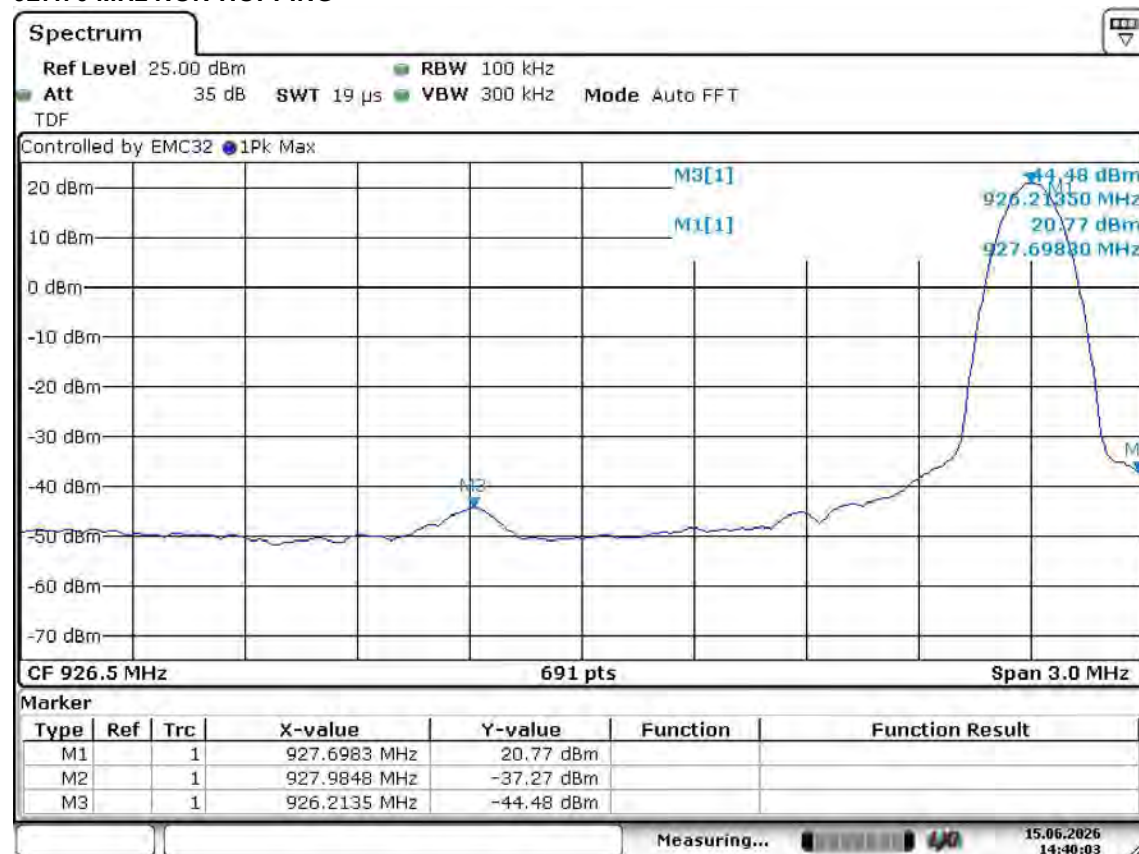
915.50 MHz NON-HOPPING



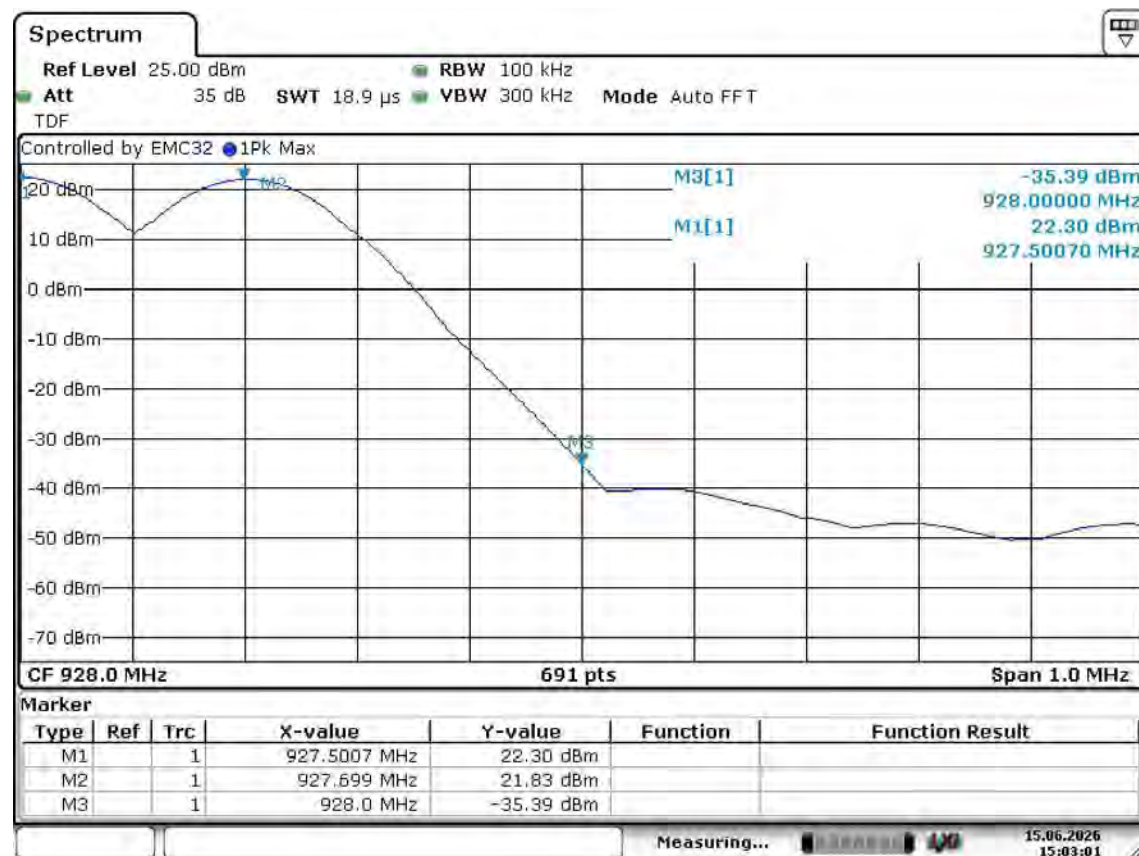
915.50 MHz HOPPING



927.70 MHz NON-HOPPING

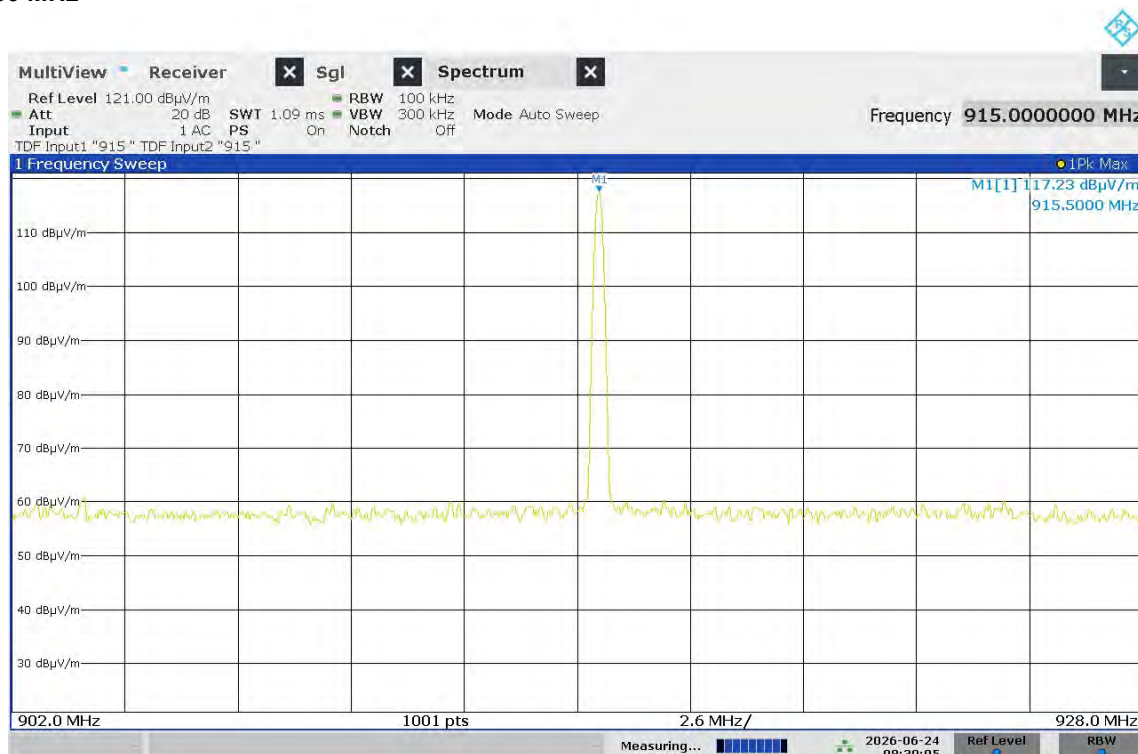


927.70 MHz HOPPING



4.10.2 Radiated measurement

915.50 MHz



08:30:06 AM 06/24/2026

927.70 MHz



01:00:47 PM 06/24/2026



5 Annex I – Additional data

Cross-reference table				
Test	47 CFR requirements	IC requirements	Section within the report	Conclusion
Antenna Requirement	§ 15.203	RSS-Gen Issue 5 §6.8	4.1	PASS
AC Line Conducted Emission	§ 15.207 (a)	RSS-Gen Issue 5 §8.8	4.2	PASS
20 dB Bandwidth	§ 15.247 (a) (1)	RSS-247 Issue 4 §6.2.2.1	4.3	PASS
Time of occupancy(Dwell time)	§ 15.247 (a) (1)	RSS-247 Issue 4 §6.2.2.1	4.4	PASS
Number of hopping frequencies	§ 15.247 (a) (1)	RSS-247 Issue 4 §6.2.2.1	4.5	PASS
Carrier frequency separation	§ 15.247 (a) (1)	RSS-247 Issue 4 §6.2.2.1	4.6	PASS
Pseudorandom Frequency Hopping Sequence and Equal Hooping Frequency Use	§ 15.247 (a) (1)	RSS-247 Issue 4 §6.2.2.1	4.7	PASS
Maximum peak output power	§ 15.247 (b) (3)	RSS-247 Issue 4 §6.2.2.1	4.8	PASS
Spurious emission	§ 15.205, § 15.209, § 15.247 (d)	RSS-Gen Issue 5 §8.9* RSS-Gen Issue 5 §8.10* RSS-247 Issue 4 §6.6*	4.9 4.10	PASS
100 kHz Bandwidth of Frequency Band Edge	§ 15.247 (d)	RSS-247 Issue 4 §6.6	4.11	PASS
*Note: Radiated measurements performed in laboratory recognized by ISED Canada: – CAB identifier: SI0001 – ISED#: 21434				

5.1 Occupied bandwidth (99% emission bandwidth)

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained.

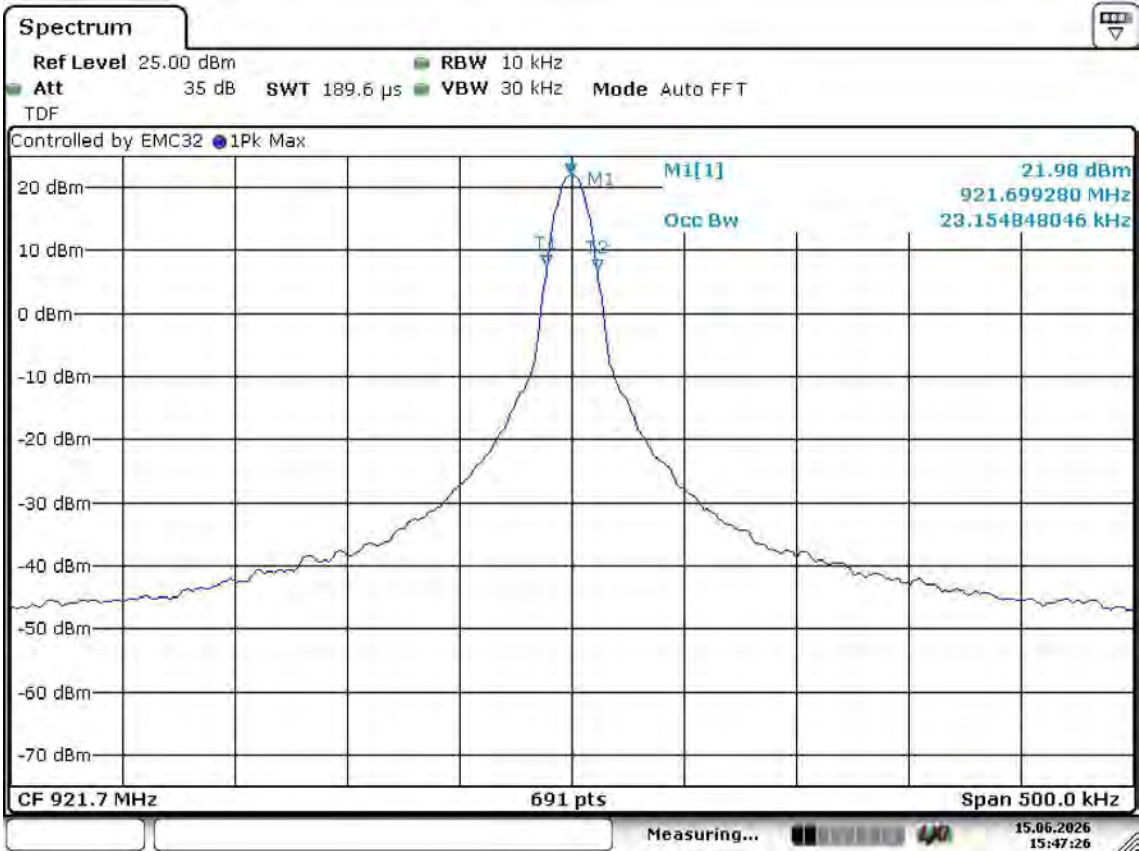
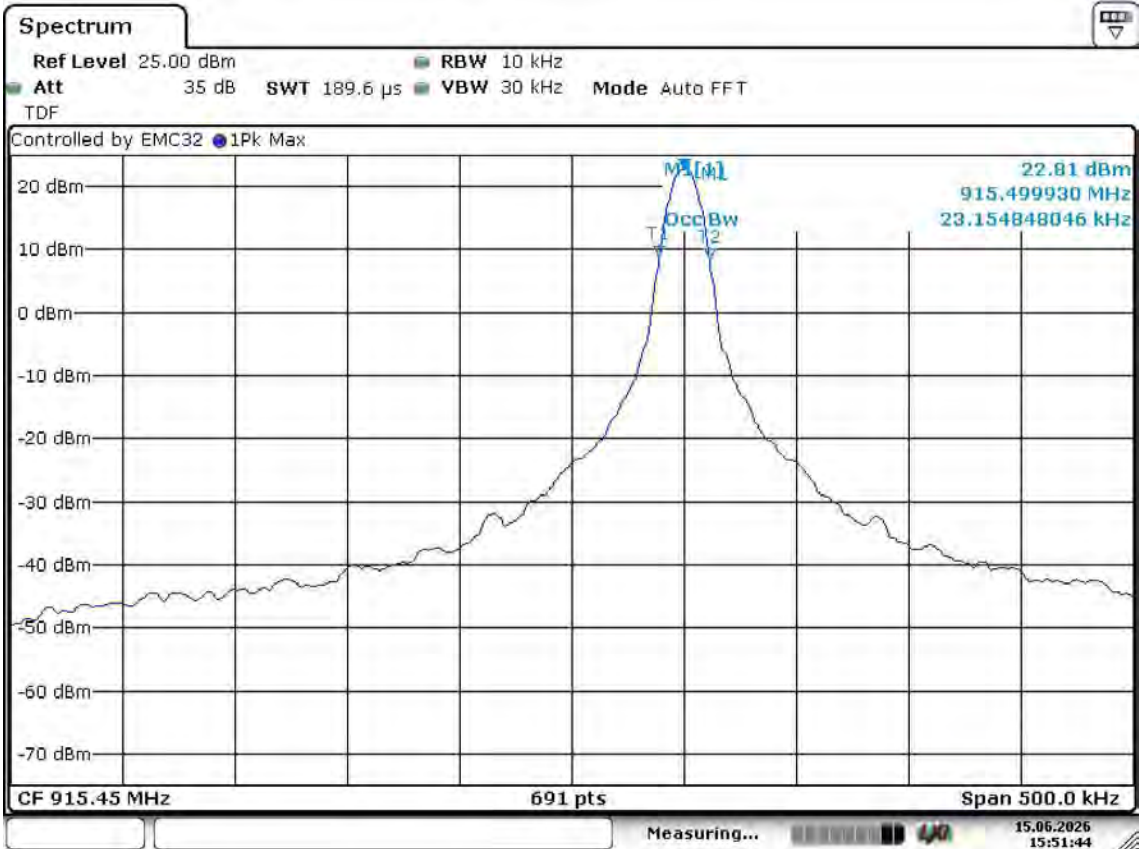
Test procedure

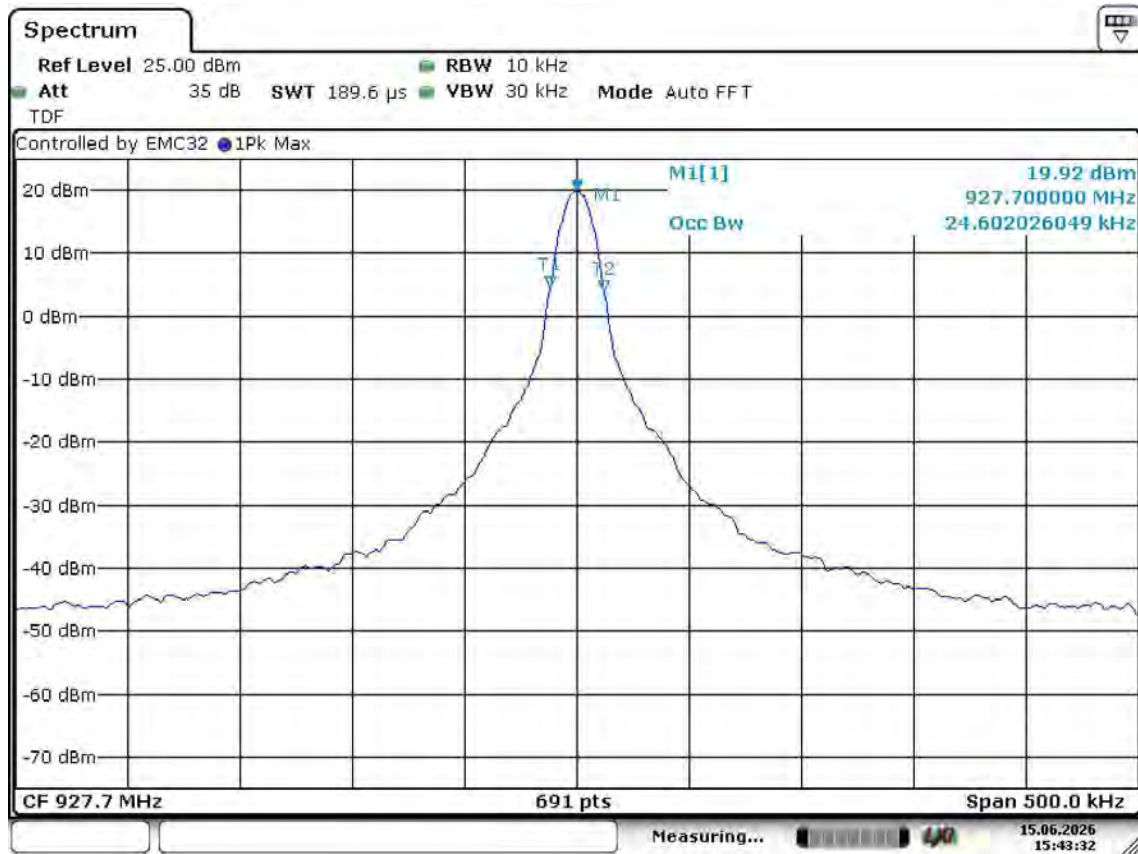
According to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyser marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyser and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



5.1.1 Test results





-----END OF TEST REPORT-----