

RADIO TEST REPORT

REPORT NUMBER: M2306030-7

TEST STANDARD: (PARTIAL)

**FCC PART 15 SUBPART C
SECTION 15.247**

CLIENT: MESHED PTY LTD

DEVICE: N-COUNTER

MODEL: --

FCC ID: AU792U13A16858

DATE OF ISSUE: 18 OCTOBER 2023

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REVISION TABLE

Version	Sec/Para Changed	Change Made	Date
1		Initial issue of document	18/10/2023



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TEST CERTIFICATE

Device: n-Counter
Model: --
Serial Number: 03F271
PCB Version: nCounter V3 Rev 1.2
Firmware Version: Firmware: 4.1.6-debug-mbed60800
Library: 4.1.4-debug-mbed60800
MTS-Lora: 4.1.4-debug-mbed60800

Radio Module: 902.3 – 914.9 MHz LoRa (Multi-Tech Systems, Inc., MTXDOT-NA1)
FCC ID: AU792U13A16858

Tested for: Meshed Pty Ltd
Address: 4/655 Pacific Hwy, St Leonards, NSW 2065, Australia
Contact: Ashay Dhamdhare
Phone: +61 410 986 697
Email: ashay@meshed.com.au

Standard: FCC Part 15, Subpart C, Section 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz – Partial, §15.203, §15.209, §15.247(b) & (d)

Result: The n-Counter complied with the applicable requirements of the above standards. Refer to Report M2306030-7 for full details.

Test Date(s): 9-10 October 2023; 12-13 October 2023

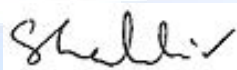
Issue Date: 18 October 2023

Test Engineer(s): Ashish Nath


Ian Paul Ng

Attestation: *I hereby certify that the device(s) described herein were tested as described in this report and that the data included is that which was obtained during such testing.*

Authorised Signatory: Shabbir Ahmed
Technical Director



Digitally signed by Shabbir Ahmed
Date: 2023.10.18 14:17:42 +11'00'

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RADIO TEST REPORT

1 TEST SUMMARY

Sec.	Description	FCC	Result(s)
6.1	Antenna Requirement	§15.203	Complied
6.2	Peak Output Power	§15.247(b)(3)	Complied
6.3	Radiated emission limits; general requirements	§15.209	Complied
6.4	Out-of-Band/Spurious Emissions	§15.247(d)	Complied
6.5	Band-Edge Emission Measurements	§15.247(d)	Complied

2 TEST FACILITY

2.1 General

EMC Technologies Pty Ltd is accredited by the FCC as a test laboratory able to perform compliance testing for the public. EMC Technologies Pty Ltd has also been designated as a Conformity Assessment Body (CAB) by Australian Communications and Media Authority (ACMA) under the APECTEL MRA and is designated to perform compliance testing on equipment subject to Declaration of Conformity (DoC) and Certification under Parts 15 and 18 of the FCC Commission's rules – **Registration Number 494713 & Designation number AU0001.**

EMC Technologies Pty Ltd is also an ISED Canada recognized testing laboratory – **ISED company number: 3569B and CAB identifier number: AU0001.**

2.2 Test Laboratory/Accreditations

NATA is the Australian National laboratory accreditation body and has accredited EMC Technologies to operate to the IEC/ISO17025 requirements. A major requirement for accreditation is the assessment of the company and its personnel as being technically competent in testing to the standards. This requires fully documented test procedures, continued calibration of all equipment to the National Standard at the National Measurements Institute (NMI) and an internal quality system similar to ISO 9002. NATA has mutual recognition agreements with the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Association for Laboratory Accreditation (A²LA).

All testing in this report has been conducted in accordance with EMC Technologies' scope of NATA accreditation to ISO 17025 for both testing and calibration and ISO 17020 for Inspection – **Accreditation Number 5292.**

The current full scope of accreditation can be found on the NATA website: www.nata.com.au



Accreditation No.5292

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3 TEST EQUIPMENT CALIBRATION

Measurement instrumentation and transducers were calibrated in accordance with the applicable standards by an independent NATA registered laboratory such as Keysight Technologies (Australia) Pty Ltd or the National Measurement Institute (NMI) or in-house. All equipment calibration is traceable to Australian national standards at the National Measurements Institute.

Equipment Type	Make/Model/Serial Number	Last Cal. dd/mm/yyyy	Due Date dd/mm/yyyy	Cal. Interval
Chamber	Frankonia SAC-3-2 (R-144)	01/09/2023	01/09/2026	3 Year* ¹
EMI Receiver	R&S ESW26 Sn: 101306 (R-143)	02/08/2023	02/08/2024	1 Year* ²
Antennas	EMCO 6502 Active Loop Antenna Sn: 2021 (A-310)	20/09/2022	20/09/2024	2 Year* ²
	SUNOL JB6 Sn: A061917 (A-434)	14/03/2023	14/03/2025	2 Year* ²
	EMCO 3115 Horn Antenna Sn: 9501-4398 (A-406)	10/01/2022	10/01/2025	3 Year* ¹
Cables* ³	Huber & Suhner Sucoflex 104A Sn: 503061/4A (CL131123)	25/11/2022	25/11/2023	1 Year* ¹

Note *1. Internal NATA calibration.

Note *2. External NATA / A2LA calibration.

Note *3. Cables are verified before measurements are taken.

4 MEASUREMENT UNCERTAINTY

EMC Technologies has evaluated the equipment and the methods used to perform the emissions testing. The estimated measurement uncertainties for emissions tests shown within this report are as follows:

Radiated Emissions:	9 kHz to 30 MHz	±4.1 dB
	30 MHz to 300 MHz	±5.1 dB
	300 MHz to 1000 MHz	±4.7 dB
	1 GHz to 18 GHz	±4.6 dB
	18 GHz to 40 GHz	±4.6 dB
Peak Output Power:		±1.5 dB

The above expanded uncertainties are based on standard uncertainties multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Application of measurement uncertainty for this report:

The referenced uncertainty standard specifies that determination of compliance shall be based on measurements without considering measurement instrumentation uncertainty. However, the measurement uncertainty shall appear in the test report.

5 Device Details

(Information supplied by the Client)

The device is a Wi-Fi hotspot smart phone counting device with LoRa transceiver.

5.1 EUT (Transmitter) Details

Radio:	Multi-Tech Systems, Inc., MTXDOT-NA1
FCC ID:	AU792U13A16858
Frequency band:	902.3 – 914.9 MHz
Number of Channels:	8
Operating Frequency:	Low Channel: 902.3 MHz Mid Channel: 908.5 MHz High Channel: 914.9 MHz
Modulation:	LoRa
Nominal Bandwidth:	125 kHz
Data Rate:	LoRa
Antenna:	Linx Technologies, ANT-916-HETH ¼-wave Monopole
Antenna Peak Gain:	6.4 dBi

5.2 EUT (Host) Details

Test Sample:	n-Counter
Model:	--
Serial Number:	03F271
PCB Version:	nCounter V3 Rev 1.2
Firmware Version:	Firmware: 4.1.6-debug-mbed60800 Library: 4.1.4-debug-mbed60800 MTS-Lora: 4.1.4-debug-mbed60800
Supply Rating:	Powered via laptop USB DC Input: 5VDC, 1A, 5.0W

5.3 Test Configuration

Testing was performed with the EUT's Transceiver set to transmit continuously at Low Channel (902.3 MHz), Mid Channel (908.5 MHz) and High Channel (914.9 MHz).

5.4 Modifications

No modifications were required to achieve compliance.

5.5 Deviations from the Standard

No deviation from the standard.



Accreditation No.5292

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6 RESULTS

6.1 §15.203 Antenna Requirement

The test sample's LoRa Transceiver incorporates a surface mount Antenna and cannot be replaced by another type.

Antenna Brand: Linx Technologies

Antenna Type: ANT-916-HETH, ¼-wave Monopole

Antenna Peak Gain: 6.4 dBi

Connector: Not Applicable

The above installation will prevent any unauthorised switching of antennas.

6.2 §15.209 Radiated Emission Limits; General Requirements

The provisions of the §15.205 restricted bands of operation and §15.209 radiated emissions limits have been met, refer to section 6.4.

6.3 §15.247(b)(3) Peak Output Power

6.3.1 Test Procedure

The maximum peak conducted output power was measured in accordance with ANSI C63.10: 2013 clause 11.9.1.1.

6.3.2 Limits

The maximum peak conducted output power at 902 - 928 MHz is 1 Watt or 30 dBm.

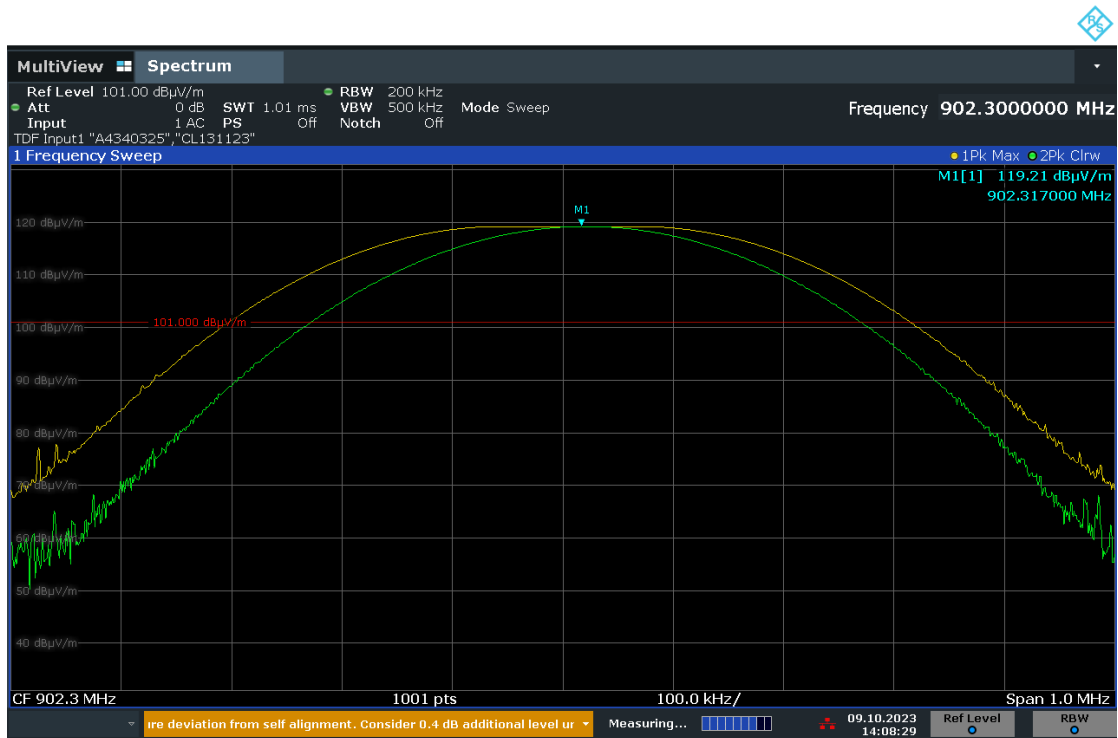
6.3.3 Results

Table 6-1: Maximum peak power

Freq. (MHz)	E-Field @ 3 m (dBµV/m)	EIRP (dBm)	Antenna Gain (dBi)	Equivalent Conducted Output Power (dBm)	Limit (dBm)	Results
902.3	119.21	23.98	6.4*	17.58	29.6*	Complied
908.5	119.37	24.14	6.4*	17.74	29.6*	Complied
914.9	119.57	24.34	6.4*	17.94	29.6*	Complied

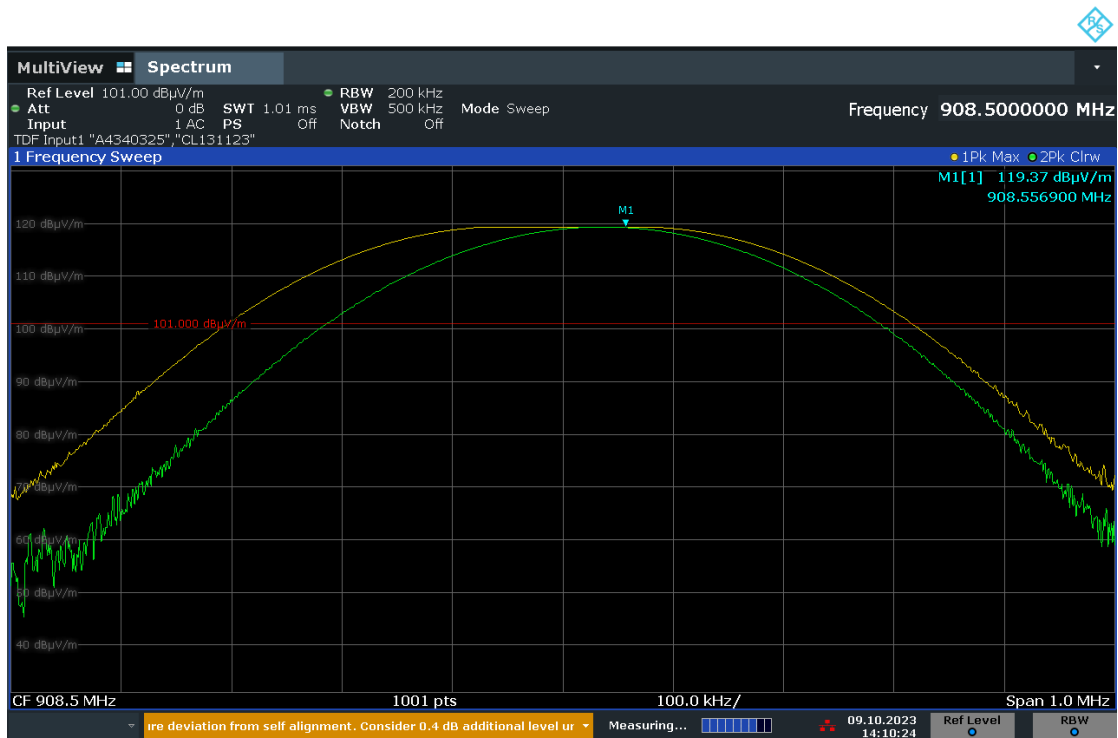
The measured radiated field strength is converted to equivalent conducted output power for checking compliance (KDB 558074 D01 Section 3).

*Note: As per §15.247(b)(4), if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



14:08:30 09.10.2023

Graph 6-1: Maximum EIRP, 902.3 MHz



14:10:24 09.10.2023

Graph 6-2: Maximum EIRP, 908.5 MHz



14:12:16 09.10.2023

Graph 6-3: Maximum EIRP, 914.9 MHz

6.4 §15.247(d) Out-of-Band/Spurious Emissions

6.4.1 Test procedure

Radiated spurious emissions measurements were performed in a semi-anechoic chamber compliant with ANSI C63.4: 2014.

The test frequency range was sub-divided into smaller bands with the defined resolution bandwidths to permit reliable display and identification of emissions.

Frequency range (MHz)	Measurement Bandwidth (kHz)	Measurement Distance (m)	Antenna
0.009 to 0.150	0.2	3	0.6 metre loop antenna
0.150 to 30	9	3	
30 to 1000	120	3	
1000 to 18 000	1000	3	Standard gain or broadband horn
18 000 to 40 000	1000	1	

EUT was set at a height of 0.8 m for measurements below 1000 MHz and set at a height of 1.5 m for measurements above 1000 MHz.

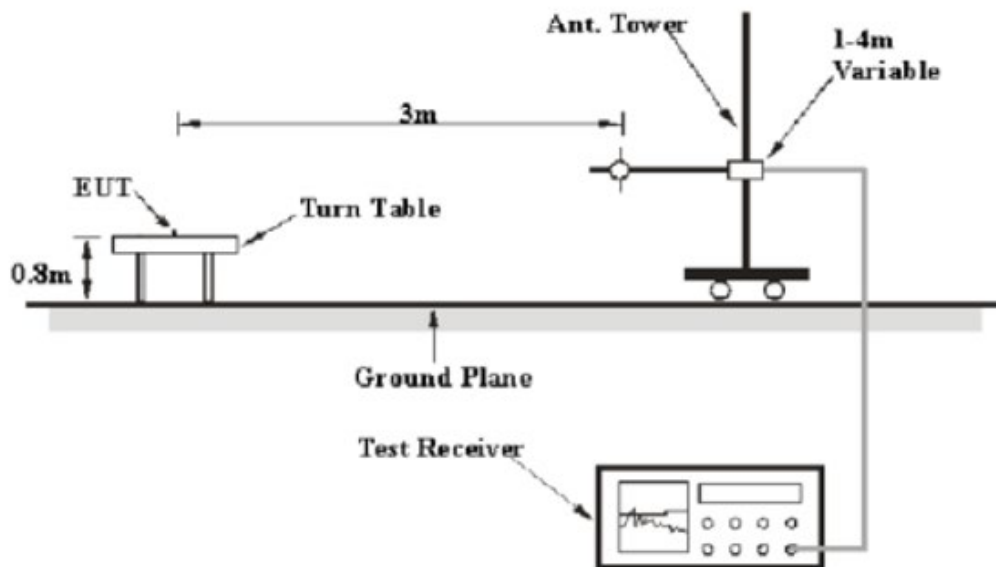
The sample was slowly rotated with the spectrum analyser set to Max-Hold. This was performed for at least two antenna heights. When an emission was located, it was positively identified, and its maximum level was found by rotating the automated turntable and by varying the antenna height. For below 1000 MHz the emissions were measured with a Quasi-Peak detector, and for above 1000 MHz the emissions were measured with Peak and Average detectors.

Measurements on the worst axis are presented.

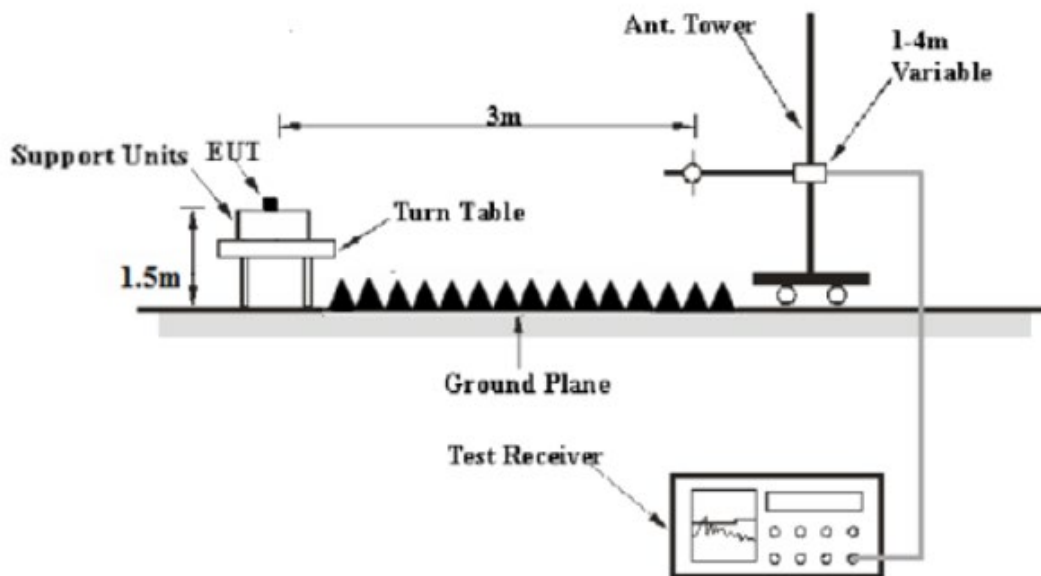
The measurement data for each frequency range was corrected for cable losses, antenna factors and preamplifier gain. This process was performed for both horizontal and vertical polarisations of the measurement antenna.

6.4.2 Test setup

Below 1 GHz:



Above 1GHz:



6.4.3 Evaluation of field strength

Field strengths were calculated automatically by the software using pre-stored calibration data. The method of calculation is shown below:

$$E = V + AF - G + L$$

Where: E = Radiated Field Strength in dB μ V/m.

V = EMI Receiver Voltage in dB μ V.

AF = Antenna Factor in dB/m (stored as a data array).

G = Preamplifier Gain in dB (stored as a data array).

L = Cable loss in dB (stored as a data array of Insertion Loss versus frequency).

6.4.4 Limits

The limit applied is in accordance with the out-of-band/spurious emissions limit defined in §15.247(d).

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.

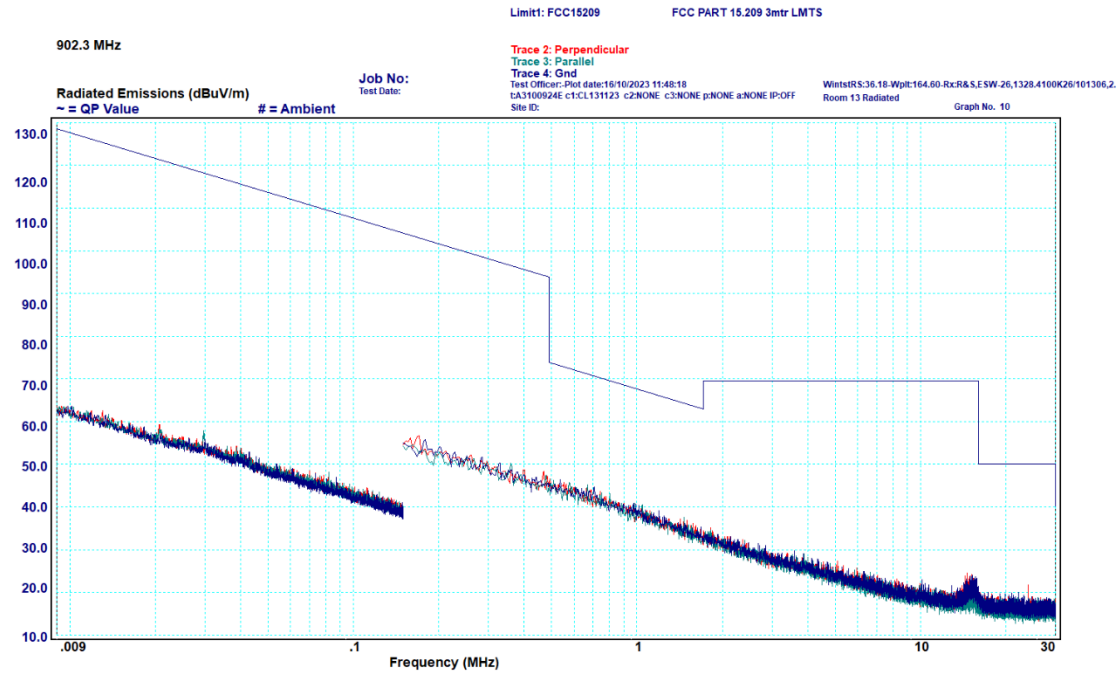
The in-band peak PSD in 100 kHz bandwidth were measured on all three channels. The maximum PSD level was used to establish the limit. However, the general limits of §15.209 apply for the restricted bands of operation defined in §15.205.

Table 6-2: 100 kHz reference level measurement

Freq. (MHz)	Peak at 3 m (dB μ V/m)	Established Limit @ 3 m (dB μ V/m)
914.9	119.58	99.58

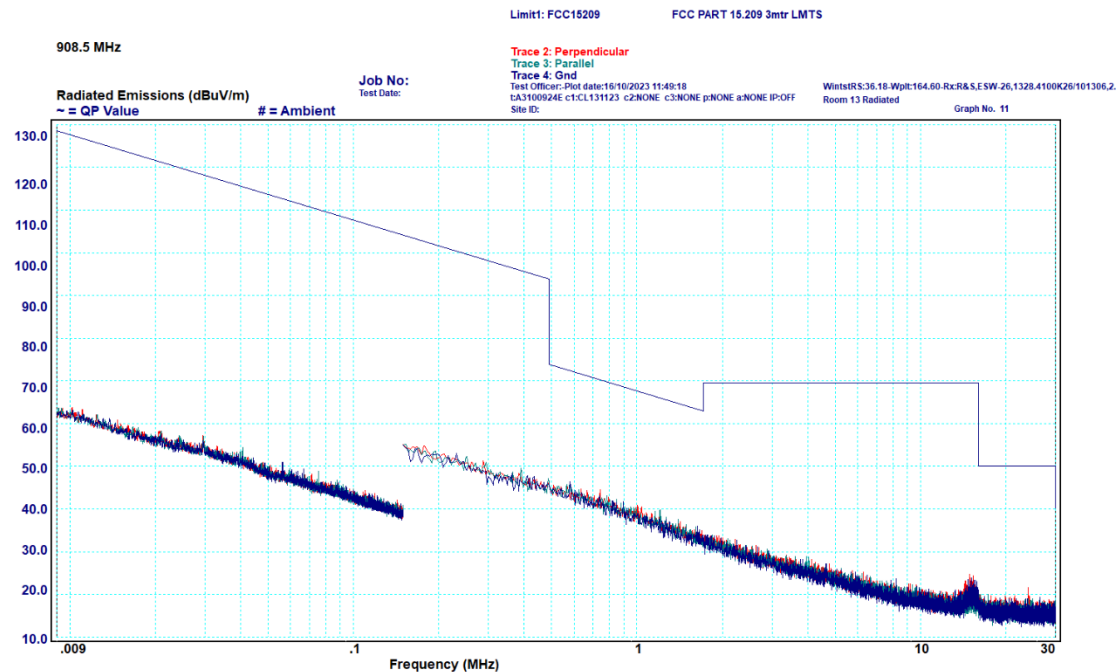
6.4.5 Transmitter Spurious Emissions: 9 kHz to 30 MHz

All emissions measured in the frequency band 9kHz - 30MHz complied with the requirements of the standard.



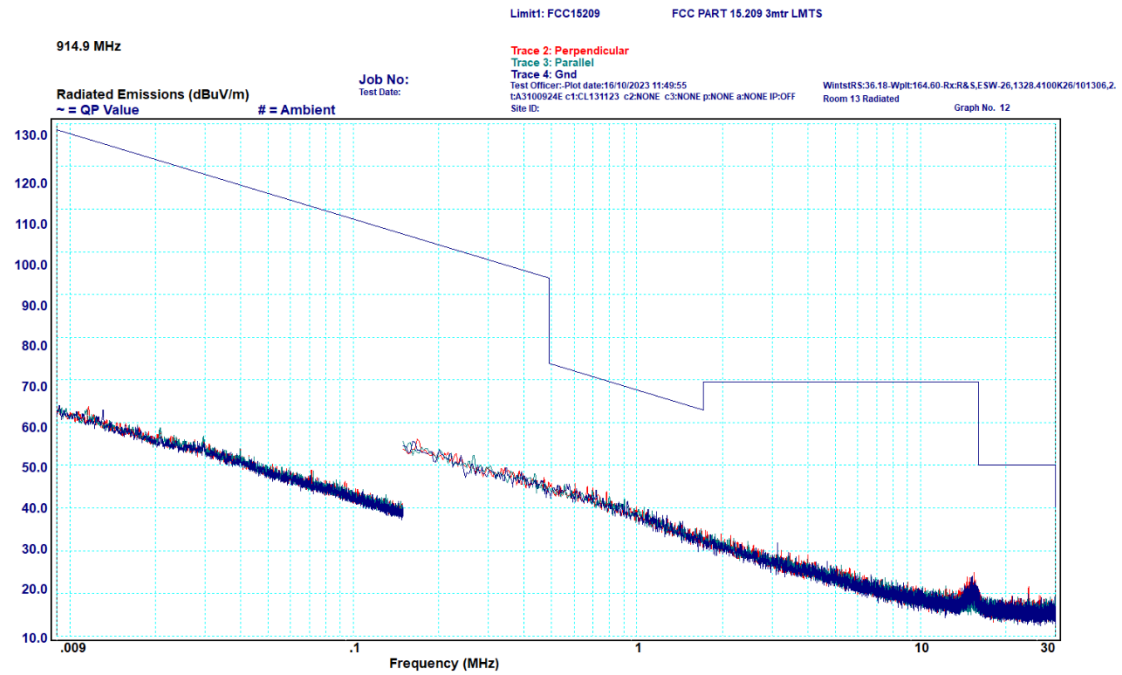
Graph 6-4: Transmitter Spurious Emissions, 9 kHz – 30 MHz, 902.3 MHz

No peaks were measured within 10 dB of the limit.



Graph 6-5: Transmitter Spurious Emissions, 9 kHz – 30 MHz, 908.5 MHz

No peaks were measured within 10 dB of the limit.

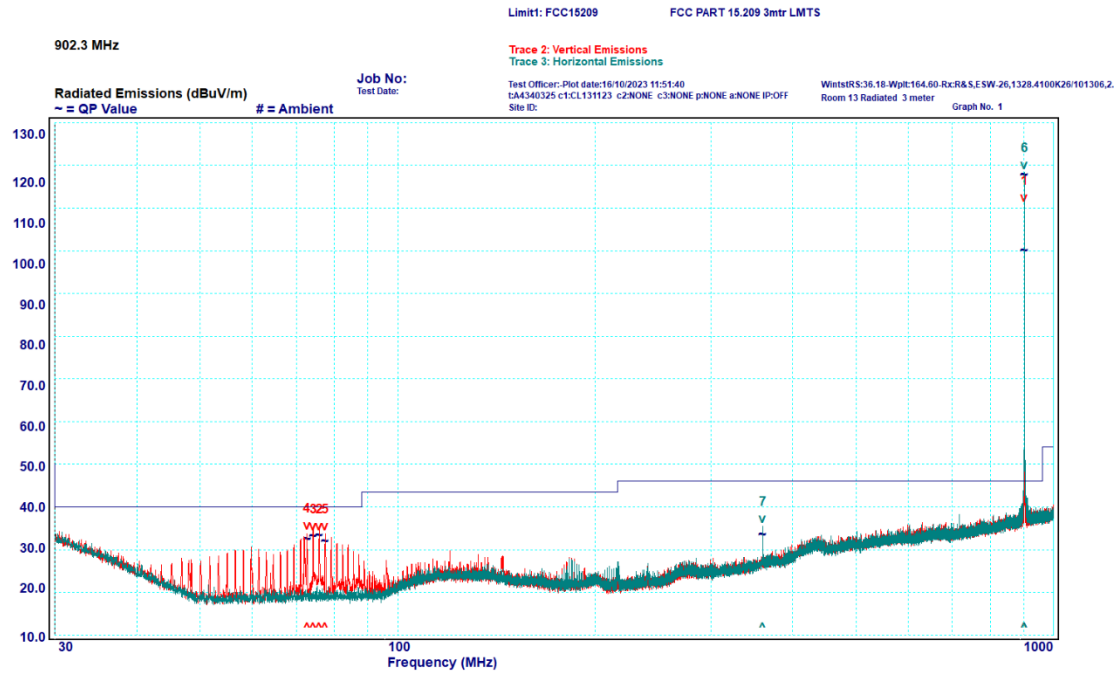


Graph 6-6: Transmitter Spurious Emissions, 9 kHz – 30 MHz, 914.9 MHz

No peaks were measured within 10 dB of the limit.

6.4.6 Transmitter Spurious Emissions: 30 - 1000 MHz

All emissions measured in the frequency band 30 – 1000 MHz complied with the requirements of the standard.

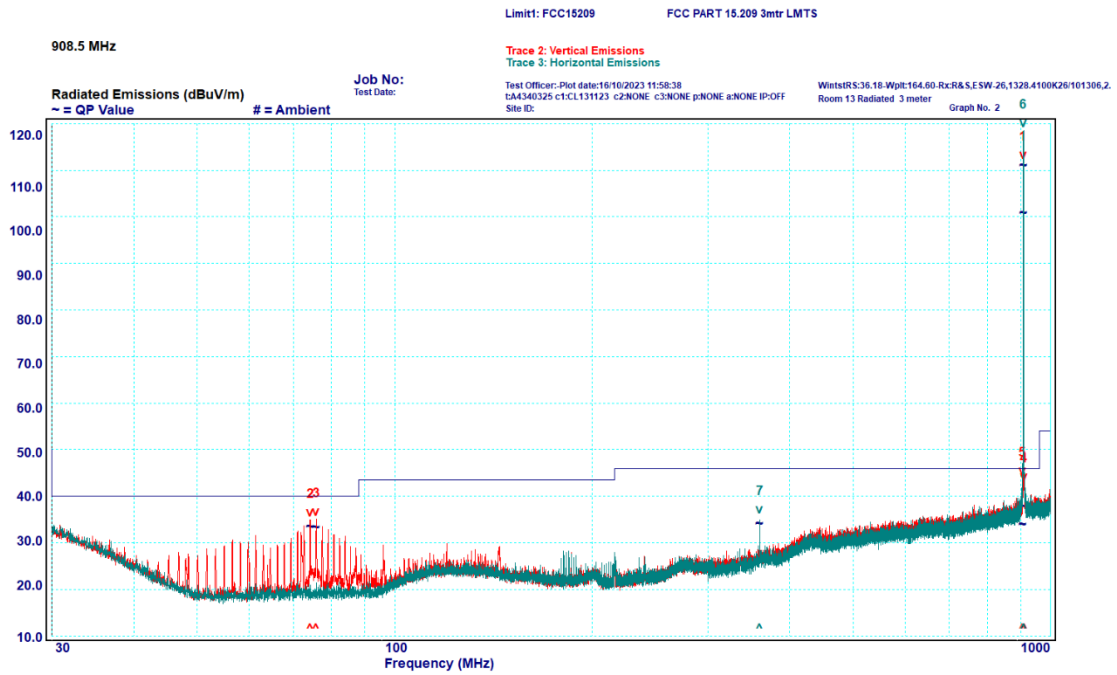


Graph 6-7: Transmitter Spurious Emissions, 30 – 1000 MHz, 902.3 MHz

Table 6-3: Transmitter Spurious Emissions, 30 – 1000 MHz, 902.3 MHz

Peak	Frequency (MHz)	Polarisation	Quasi-Peak		
			Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1*	902.34	Vertical	N/A	N/A	N/A
2	75.93	Vertical	33.8	40	-6.2
3	74.34	Vertical	33.6	40	-6.4
4	72.7	Vertical	33	40	-7
5	77.54	Vertical	32.4	40	-7.6
6*	902.31	Horizontal	N/A	N/A	N/A
7	360	Vertical	34	46	-12

*Note: Fundamental transmissions

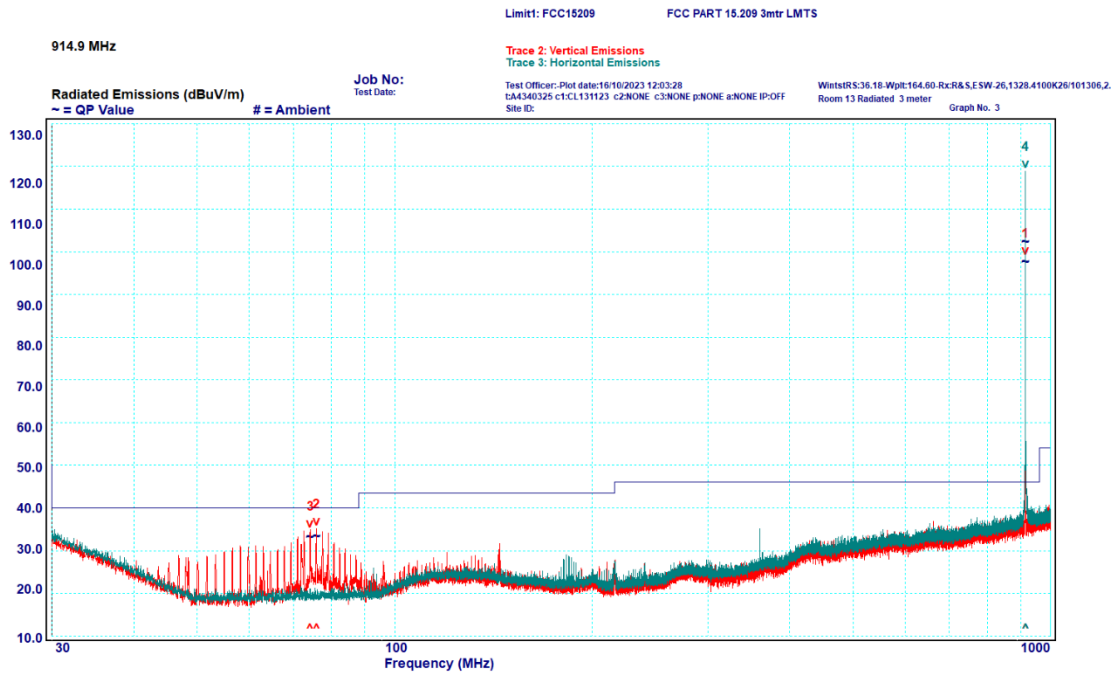


Graph 6-8: Transmitter Spurious Emissions, 30 – 1000 MHz, 908.5 MHz

Table 6-4: Transmitter Spurious Emissions, 30 – 1000 MHz, 908.5 MHz

Peak	Frequency (MHz)	Polarisation	Quasi-Peak		
			Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1*	908.45	Vertical	N/A	N/A	N/A
2	74.32	Vertical	33.9	40	-6.1
3	75.92	Vertical	33.8	40	-6.2
4	910.67	Vertical	38.3	46	-7.7
5	905.06	Vertical	34.4	46	-11.6
6*	908.55	Horizontal	N/A	N/A	N/A
7	360.04	Horizontal	34.6	46	-11.4

*Note: Fundamental transmissions



Graph 6-9: Transmitter Spurious Emissions, 30 – 1000 MHz, 914.9 MHz

Table 6-5: Transmitter Spurious Emissions, 30 – 1000 MHz, 914.9 MHz

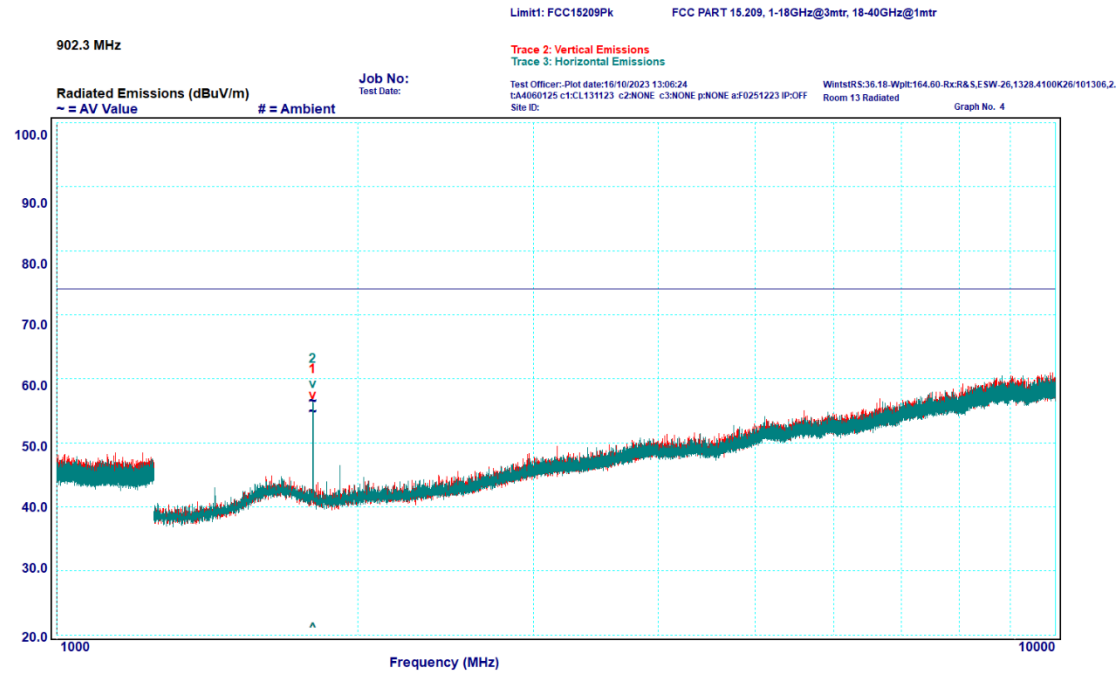
Peak	Frequency (MHz)	Polarisation	Quasi-Peak		
			Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1*	914.85	Vertical	N/A	N/A	N/A
2	75.98	Vertical	33.8	40	-6.2
3	74.34	Vertical	33.6	40	-6.4
4*	914.95	Horizontal	N/A	N/A	N/A

*Note: Fundamental transmissions

6.4.7 Transmitter Spurious Emissions: 1 - 10 GHz

All emissions measured in the frequency band 1 – 10 GHz complied with the requirements of the standard.

Peak Measurement:

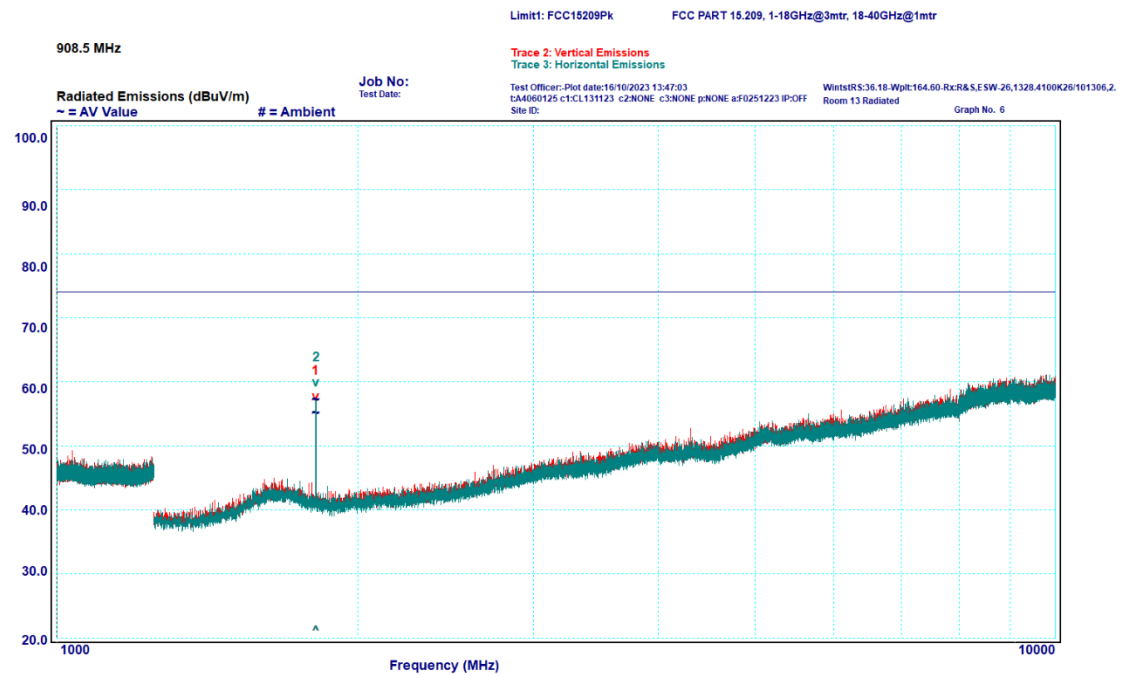


Graph 6-10: Transmitter Spurious Emissions, 1 – 10 GHz, 902.3 MHz, Peak

Table 6-6: Transmitter Spurious Emissions, 1 – 10 GHz, 902.3 MHz, Peak

Peak	Frequency (MHz)	Polarisation	Peak		
			Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1*	1804.63	Vertical	55.4	99.58	-43.85
2*	1804.42	Horizontal	57.0	99.58	-42.25

*Note: -20 dBc Peak limit applied for nonrestricted bands.

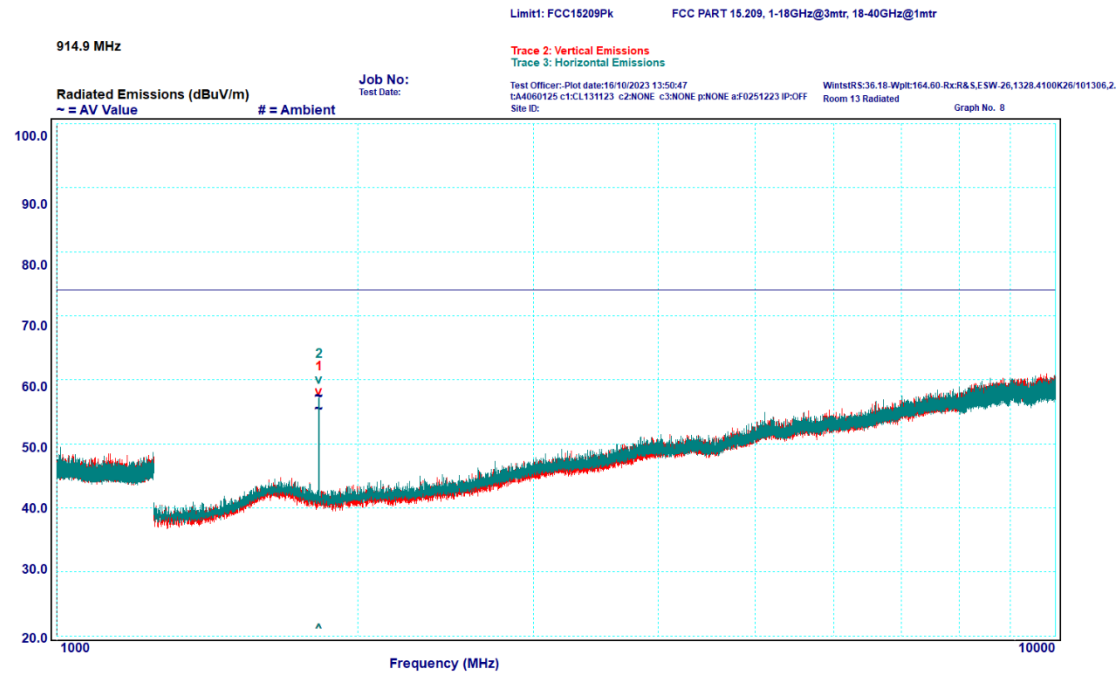


Graph 6-11: Transmitter Spurious Emissions, 1 – 10 GHz, 908.5 MHz, Peak

Table 6-7: Transmitter Spurious Emissions, 1 – 10 GHz, 908.5 MHz, Peak

Peak	Frequency (MHz)	Polarisation	Peak		
			Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1*	1816.91	Vertical	55.6	99.58	-43.98
2*	1817.13	Horizontal	57.7	99.58	-41.88

*Note: -20 dBc Peak limit applied for nonrestricted bands.



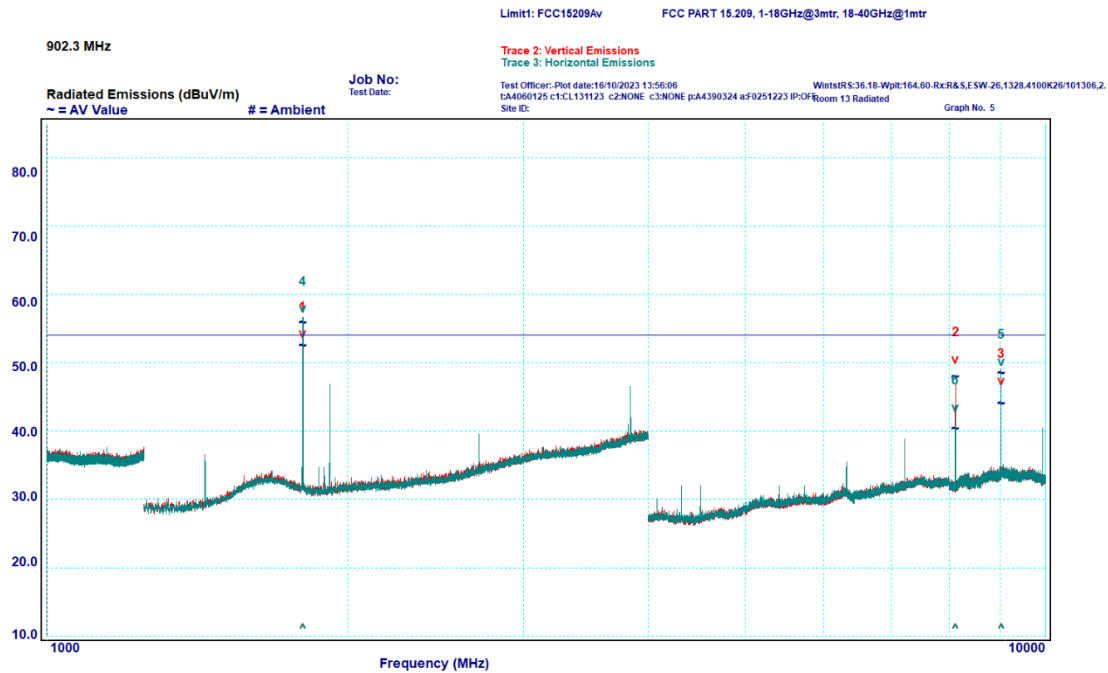
Graph 6-12: Transmitter Spurious Emissions, 1 – 10 GHz, 914.9 MHz, Peak

Table 6-8: Transmitter Spurious Emissions, 1 – 10 GHz, 914.9 MHz, Peak

Peak	Frequency (MHz)	Polarisation	Peak		
			Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1*	1829.87	Vertical	56.0	99.58	-43.58
2*	1830.00	Horizontal	57.9	99.58	-41.68

*Note: -20 dBc Peak limit applied for nonrestricted bands.

Average Measurement:

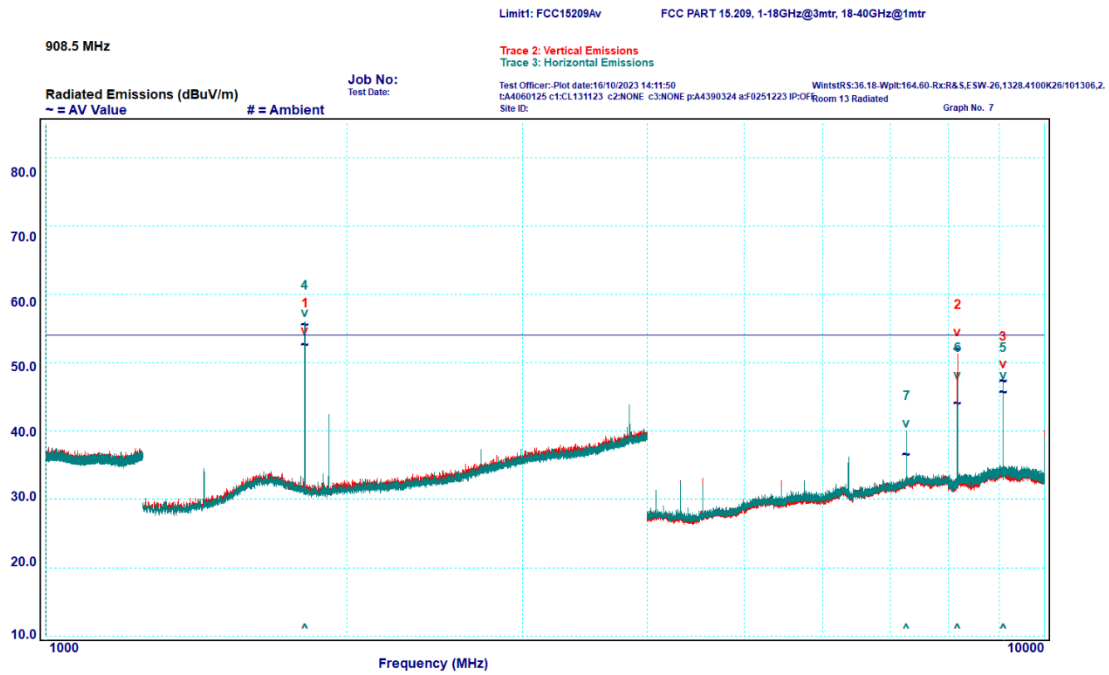


Graph 6-13: Transmitter Spurious Emissions, 1 – 10 GHz, 902.3 MHz, Average

Table 6-9: Transmitter Spurious Emissions, 1 – 10 GHz, 902.3 MHz, Average

Peak	Frequency (MHz)	Polarisation	Average		
			Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1*	1804.68	Vertical	N/A	N/A	N/A
2	8120.52	Vertical	48.4	54	-5.6
3	9022.36	Vertical	44.5	54	-9.5
4*	1804.57	Horizontal	N/A	N/A	N/A
5	9023.17	Horizontal	48.9	54	-5.1
6	8120.07	Horizontal	40.8	54	-13.2

*Note: -20 dBc Peak limit applied for nonrestricted bands as per 15.247(d)

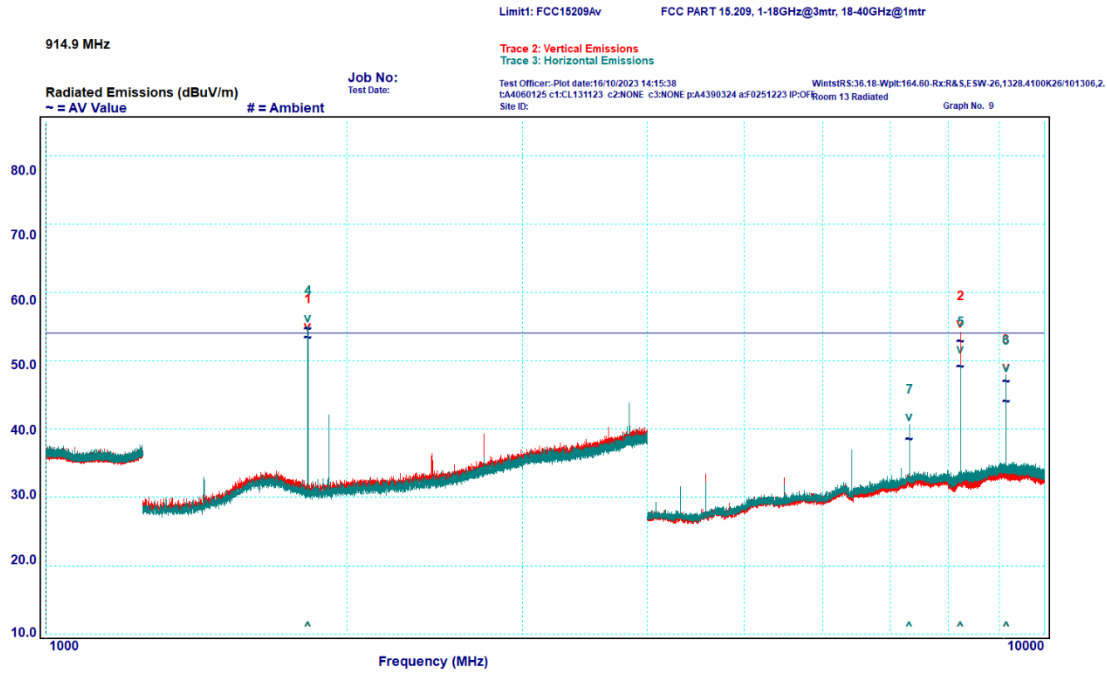


Graph 6-14: Transmitter Spurious Emissions, 1 – 10 GHz, 908.5 MHz, Average

Table 6-10: Transmitter Spurious Emissions, 1 – 10 GHz, 908.5 MHz, Average

Peak	Frequency (MHz)	Polarisation	Average		
			Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1*	1817.14	Vertical	N/A	N/A	N/A
2	8176.58	Vertical	52.4	54	-1.6
3	9085.13	Vertical	47.8	54	-6.2
4*	1816.86	Horizontal	N/A	N/A	N/A
5	9084.44	Horizontal	46.1	54	-7.9
6	8175.9	Horizontal	44.5	54	-9.5
7	7267.57	Horizontal	37	54	-17

*Note: -20 dBc Peak limit applied for nonrestricted bands as per 15.247(d)



Graph 6-15: Transmitter Spurious Emissions, 1 – 10 GHz, 914.9 MHz, Average

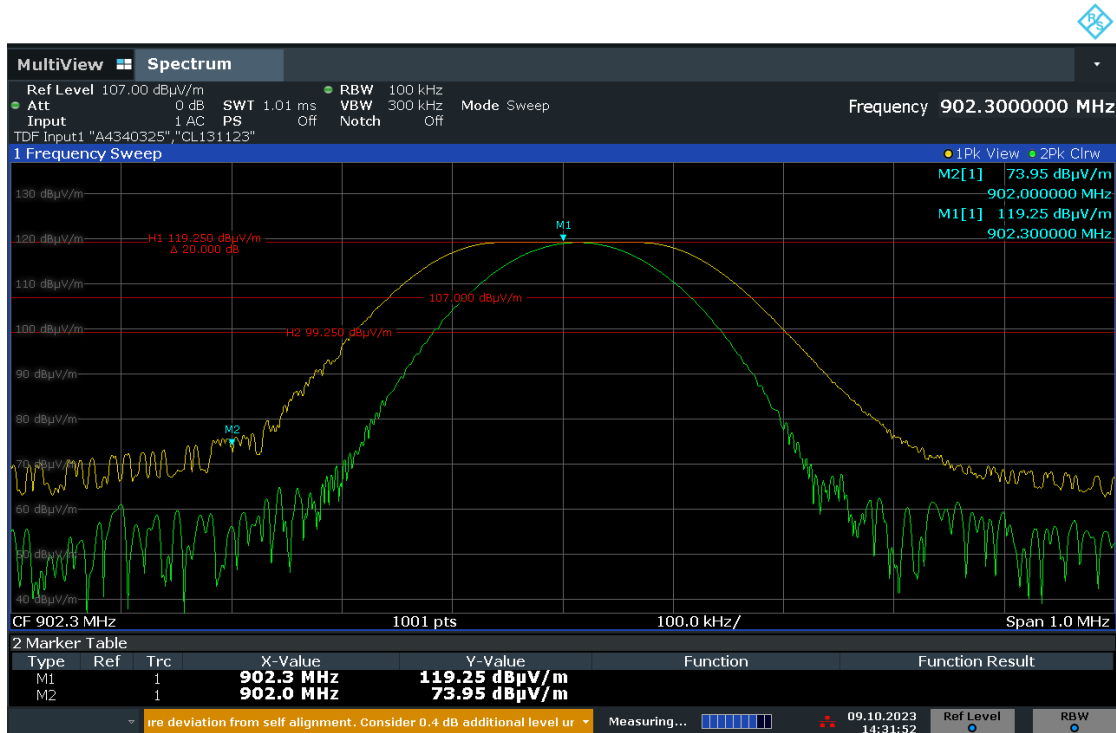
Table 6-11: Transmitter Spurious Emissions, 1 – 10 GHz, 914.9 MHz, Average

Peak	Frequency (MHz)	Polarisation	Average		
			Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1*	1829.73	Vertical	N/A	N/A	N/A
2	8233.72	Vertical	53.3	54	-0.7
3	9149.4	Vertical	47.4	54	-6.6
4*	1829.72	Horizontal	N/A	N/A	N/A
5	8233.72	Horizontal	49.6	54	-4.4
6	9148.93	Horizontal	44.6	54	-9.4
7	7319.37	Horizontal	39	54	-15

*Note: -20 dBc Peak limit applied for nonrestricted bands as per 15.247(d)

6.5 §15.247(d) Band Edge Emission Measurements

Band-edge radiated measurements were done in accordance with ANSI C63.10 clause 6.10. All emissions measured near the lower and higher band edge complied with the requirements of §15.247.

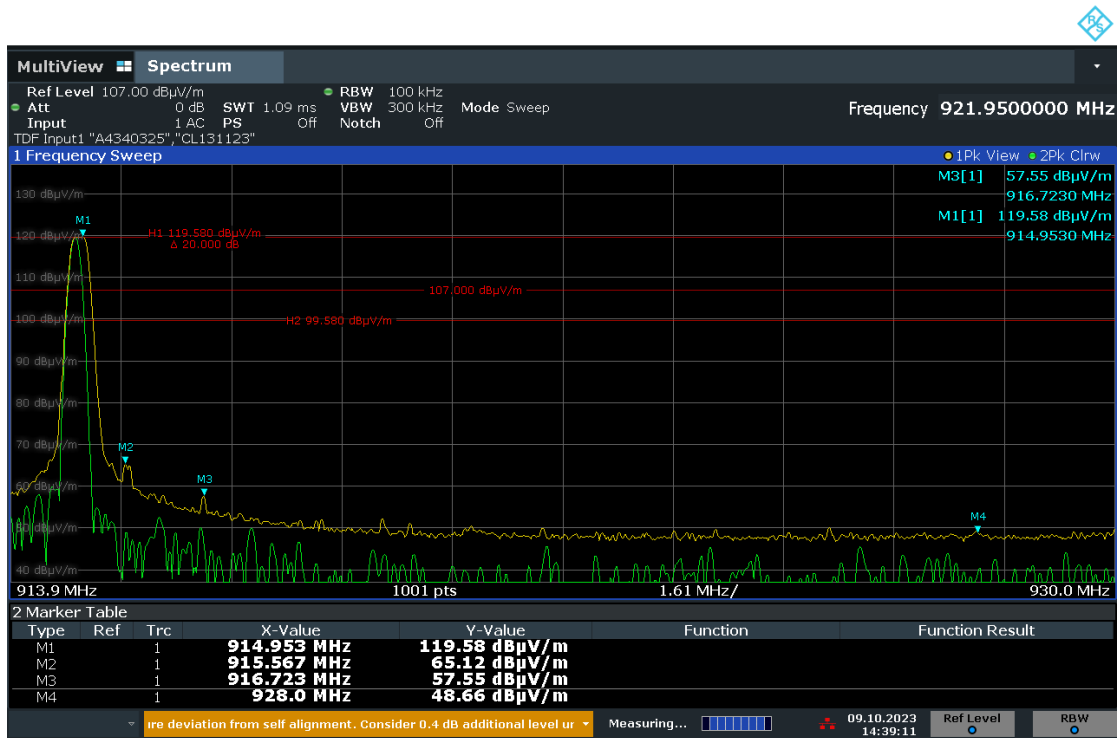


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Graph 6-16: Band Edge Emission, Lower Band-edge, 902 MHz

Table 6-12: Band Edge Emission, Lower Band-edge, 902 MHz

Marker	Measurement Type	Freq (MHz)	Measurement (dBμV/m)	Limit (dBμV/m)	Result
M2	Peak	902	73.95	99.58	Complied



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Graph 6-17: Band Edge Emission, Upper Band-edge, 928 MHz

Table 6-13: Band Edge Emission, Upper Band-edge, 928 MHz

Marker	Measurement Type	Freq (MHz)	Measurement (dBμV/m)	Limit (dBμV/m)	Result
M4	Peak	928	48.66	99.58	Complied

END OF REPORT