



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test Report No:
4604ERM.013A3

Partial Test report

USA FCC Part 15.207, 15.209, 15.247, 15.249, 15.31(h), 15.407, 22, 24, 27
CANADA RSS-Gen, RSS-130, RSS-132, RSS-133, RSS-139, RSS-247

(*) Identification of item tested	Connected 6-gas pumped gas detector
(*) Trademark	MSA- The Safety Company
(*) Model and /or type reference	ALTAIR io 6
Other identification of the product	FCC ID: P9R-MSAALTio6 IC ID: 324C-MSAALTio6 HVIN: ALT-GL-XX
(*) Features	RFID, GNSS, BLE 5.0, LTE-M, NB-IoT
Manufacturer	MSA Innovation, LLC 1000 Cranberry Woods Drive Cranberry Township, PA 16066, USA
Test method requested, standard	USA FCC Part 15.247 Edition (05-05-2025): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.407 Edition (05-05-2025): Unlicensed National Information Infrastructure Devices. General technical requirements. USA FCC Part 15.209 Edition (03-06-2025): Radiated emission limits; general requirements. FCC Part 22 (09-28-2020) Edition. Public Mobile Services FCC Part 24 (10-13-2020) Edition. Personal Communications Services FCC Part 27 (03-04-2024) Edition. Miscellaneous Wireless Communications Services CANADA RSS-247 Issue 4, July 2025. CANADA RSS-130 Issue 2, February 2019. CANADA RSS-132 Issue 4, January 2023. CANADA RSS-133 Issue 7, July 2024. CANADA RSS-139 Issue 4, September 2022/ AM (October 2022) CANADA RSS-Gen Issue 5 (April 2018)/A1 (March 2019)/A2 (February 2021). FCC KDB 971168 D01 v03r01 Power Meas License Digital Systems FCC KDB 558074 D01 15.247 Meas Guidance v05r02. Guidance for Compliance Measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under section §15.247 of the FCC Rules ANSI C63.10-2020/Cor1-2023+C63.10a-2024+Errata to C63.10a-2024: American National Standard for Testing Unlicensed Wireless Devices.
Summary	See Appendix A
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager 
Date of issue	2026-02-12
Report template No	FDT08_25 (*) "Data provided by the client"

Digitally signed by Domingo Galvez
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Acronyms

Acronym ID	Acronym Description
# of Tx Chains	Number of Transmission Chains
BEL	Band Edge Left
BER	Band Edge Right
DC	Duty Cycle
Freq	Frequency
Freq Rng	Frequency Range
Lvl Meas Pk	Level Pre Measurement Peak
MP	Measurement Point
MU	Medium Utilization Factor
Max EIRP	Maximum Burst EIRP
Max RMS	Maximum Burst RMS
Max Tx Seq	Maximum Transmission Sequence Time
Min Tx Gap	Minimum Transmission Gap Time
Mod	Modulation
Occ Ch BW	Occupied Channel Bandwidth
PSD	Power Spectrum Density
Port	Active Port
T	Temperature
Unwanted Freq	Unwanted Emissions Frequency
Unwanted Lvl	Unwanted Emissions Level
TC	Test Condition

Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the **Certificate 2764.01** and **CAB ID US0215**.

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Certification internal document PODT000.

Test case	Frequency (MHz)	U ($k=2$)	Units
Radiated Spurious Emission	30-180	4.27	dB
	180-1000	3.14	dB
	1000-18000	3.30	dB
	18000-40000	3.49	dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of the Altair io6 portable gas instrument is a 6 gas, pumped, and connected gas detector used to alert users to the presence of toxic or combustible gases within an area. The Altair io6 portable gas instrument has an on-board pump and will commonly be used with a sampling line of a certain length and a sampling probe to detect the presence of toxic or combustible gases some distance from the instrument operator. The Altair io6 is a connected instrument giving our customers the visibility to real time data, location, and alarms, adding to MSA's line of connected Altair io products.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples used for the test have been selected by: The client.

The sample(s) is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	4693/24	Gas Detection Wearable - RF	ALTAIR io 6	004D0050019301A8	2025/05/22	Element Under Test
S/01	4693/16	Debug board	--	--	2025/05/22	Accessory
S/01	4693/23	USB Type A - USB type C cable	--	--	2025/05/22	Accessory

Notes referenced to samples during the project:

Id	Note
S/01	Sample S/01 was used for: All test(s) indicated in appendix A

Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description		Cable				
			Specified length [m]	Attached during test	Shielded	Coupled to patient	
	Debug Port		.2	☒	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
Supplementary information to the ports..... :	See Procedure						
Rated power supply :	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 3.8V					
	☐	DC:					
Rated Power :	3.8W						
Clock frequencies :	No data Provided						
Other parameters..... :	No data Provided						
Software version :	1.5.23						
Hardware version..... :	1.0						
Dimensions (W x H x D)..... :	15.2cm x 8.2cm x 5.7cm						
Mounting position..... :	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☒	Hand-held equipment					
	☐	Other:					
Modules/parts :	Module/parts of test item		Type		Manufacturer		
	ANNA B112		BLE Module		UBlox		
	SARA R520M10		Cell Module		UBlox		
	CR95HF		RFID		STMicroelectronic		
							
							
Accessories (not part of the test item) :	Description		Type		Manufacturer		
	No Data Provided						
							
							
							
Documents as provided by the applicant :	Description		File name		Issue date		
	Procedure						
	UBlox Docs - end user test						
	Declaration Equipment Data		FDT30_19 Declaration Equipment Data_060925		2025-06-09		

⁽³⁾ Only for Medical Equipment

Identification of the client

MSA Innovation, LLC
1100 Cranberry Woods Drive
Cranberry Township, PA 16066,
USA

Testing period and place

Test Location	DEKRA Certification Inc. 405 Glenn Dr. Suite 12, Sterling, VA 20164 United States of America.
Date (start)	2025-06-03
Date (finish)	2025-06-12

Document history

Report number	Date	Description
4604ERM.013	2025-12-29	First release
4604ERM.013A1	2026-02-04	Second release. The template report has been updated; Missing Standards and regulations have been added. Summary was updated. Typo errors were fixed. This revised test report cancels and replaces Test Report 4604ERM.013.
4604ERM.013A2	2026-02-05	Third release. Typos were fixed in the cover. This revised test report cancels and replaces Test Report 4604ERM.013A1
4604ERM.013A3	2026-02-12	Fourth release. The test report is updated with HVIN number. This modified test report cancels and replaces the report 4604ERM.013A2

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi-anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Yuqi Wang, Fahim Tahiree, Juliana Cherry, Koji Nishimoto, and Victor Albrecht.

Testing verdicts

Fail	F
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

FCC PART 15C PARAGRAPH / RSS-247 (BTLE)		
Requirement – Test case	Verdict	Remark
RSS-Gen 8.8 / FCC 15.207 - Continuous conducted emission on Power leads	N/M	Refer 1
FCC 2.1049 / RSS-GEN 6.7 - 99dBw Occupied Channel Bandwidth 99%	N/M	Refer 1
FCC 15.247 (a) (2) / RSS-247 5.2 (a) - 6dB Bandwidth	N/M	Refer 1
FCC 15.247 (b) (3) / RSS-247 5.4 (d) - Maximum Peak Conducted output power & Antenna gain	N/M	Refer 1
FCC 15.247 (d) / RSS-247 5.5 - Band-edge emissions compliance (Transmitter) - Conducted	N/M	Refer 1
FCC 15.247 (d) / RSS-247 5.2 (b) - Power Spectral Density	N/M	Refer 1
FCC 15.247 (d) / RSS-247 5.5 - Emissions compliance (Transmitter) - Conducted	N/M	Refer 1
FCC 15.247 (d) / RSS-247 5.5 - Emissions compliance (Transmitter) - Radiated	P	N/A
<u>Supplementary information and remarks:</u>		
1. Only multi-transmitter radiated spurious emission test was requested.		

FCC PART 15C PARAGRAPH / RSS-247 (Operation within the band 13.110-14.010 MHz)		
Requirement – Test case	Verdict	Remark
RSS-Gen 8.8 / FCC 15.207 - Continuous conducted emission on Power leads	N/M	Refer 1
FCC 2.1049 / RSS-GEN 6.7 - 99dBw Occupied Channel Bandwidth 99%	N/M	Refer 1
FCC 15.225 (a) / RSS-210 B.6 (a) - Field Strength of emissions within the band 13.553 MHz - 13.567 MHz	N/M	Refer 1
FCC 15.225 (b) / RSS-210 B.6 (b) - Field Strength of emissions within the band 13.410 MHz - 13.553 MHz and 13.567 – 13.710 MHz	N/M	Refer 1
FCC 15.225 (c) / RSS-210 B.6 (c) - Field Strength of emissions within the band 13.110 MHz - 13.410 MHz and 13.710 – 14.010 MHz	N/M	Refer 1
FCC 15.225 (d) / RSS-210 B.6 (d) - Field Strength of emissions outside of the band 13.110 MHz - 14.010 MHz	P	N/A
FCC 15.225 (e) / RSS-210 B.6 - Frequency Tolerance of the carrier signal	N/M	Refer 1
<u>Supplementary information and remarks:</u>		
1. Only multi-transmitter radiated spurious emission test was requested.		

FCC PART 22/ IC RSS-132 PARAGRAPH - Public Mobile Services		
Requirement – Test case	Verdict	Remark
RSS-Gen 8.8 / FCC 15.207 - Continuous conducted emission on Power leads	N/M	Refer 1
FCC 2.1046 & 22.913/ RSS-132 Clause 5.4 RF Output power	N/M	Refer 1
FCC 2.1047 /RSS-132 Clause 5.2 Modulation characteristics	N/M	Refer 1
FCC 2.1055 & 22.355/ RSS-132 Clause 5.3 Frequency stability	N/M	Refer 1
FCC 2.1049 Occupied Bandwidth	N/M	Refer 1
FCC 2.1051 & 22.917/ RSS-132 Clause 5.5 Spurious emissions at antenna terminals	N/M	Refer 1
FCC 22.917/ RSS-132 Clause 5.5 Radiated Emissions	P	N/A
<u>Supplementary information and remarks:</u> 1. Only multi-transmitter radiated spurious emission test was requested.		

FCC PART 24/ IC RSS-133 PARAGRAPH - Personal Communications Services		
Requirement – Test case	Verdict	Remark
RSS-Gen 8.8 / FCC 15.207 - Continuous conducted emission on Power leads	N/M	Refer 1
FCC 24.232/ RSS-133 Clause 6.4 RF Output power	N/M	Refer 1
FCC 2.1047/ RSS-133 Clause 6.2 Modulation characteristics	N/M	Refer 1
FCC 24.235/ RSS-133 Clause 6.3 Frequency stability	N/M	Refer 1
FCC 2.1049 Occupied Bandwidth	N/M	Refer 1
FCC 24.238/ RSS-133 Clause 6.5 Spurious emissions at antenna terminals	N/M	Refer 1
FCC 24.238/ RSS-133 Clause 6.5 Radiated Emissions	P	N/A
<u>Supplementary information and remarks:</u> 1. Only multi-transmitter radiated spurious emission test was requested.		

FCC PART 27/ IC RSS-139/ IC RSS-130 PARAGRAPH – Miscellaneous Wireless Communications Services		
Requirement – Test case	Verdict	Remark
RSS-Gen 8.8 / FCC 15.207 - Continuous conducted emission on Power leads	N/M	Refer 1
FCC 27.50/ RSS-139 Clause 6.5/ RSS-130 Clause 4.4 RF Output power	N/M	Refer 1
FCC 2.1047/ RSS-139 Clause 6.2/ RSS-130 Clause 4.1 Modulation characteristics	N/M	Refer 1
FCC 27.54/ RSS-139 Clause 6.4/ RSS-130 Clause 4.3 Frequency stability	N/M	Refer 1
FCC 2.1049 Occupied Bandwidth	N/M	Refer 1
FCC 27.53/ RSS-139 Clause 6.6/ RSS-130 Clause 4.6 Spurious emissions at antenna terminals	N/M	Refer 1
FCC 27.53/ RSS-139 Clause 6.6/ RSS-130 Clause 4.6 Radiated Emissions	P	N/A
<u>Supplementary information and remarks:</u> 1. Only multi-transmitter radiated spurious emission test was requested.		

List of equipment used during the test

Radiated Measurements

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
01014	FSV40 SIGNAL ANALYZER 40GHZ	RHODE & SCHWARZ	101626	FSV40	2025-10-04
01056	3116C DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (18-40GHz)	ETS LINDGREN	00213179	3116C	2026-02-23
01057	3115 DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (750 MHz-18 GHz)	ETS LINDGREN	00211373	3115	2026-07-18
01062	ACTIVE LOOP ANTENNA	ETS LINDGREN	00208517	6502	2026-07-25
01065	3142E BICONILOG ANTENNA	ETS LINDGREN	00208587	3142E	2028-02-03
01108	ETHERNET SNMP THERMOMETER	HW GROUP	60038026954	HWg-STE Plain	2025-10-18
01111	ETHERNET SNMP THERMOMETER	HW GROUP	60038026577	HWg-STE Plain	2025-10-24
01179	SEMI-ANECHOIC CHAMBER	FRANKONIA	F169021	SAC 3plus 'L'	---
01217	FRANKONIA TRANSPARENT TEST TABLE 1	FRANKONIA	-	FFT-Square	---
01213	CONTROL ROOM	FRANKONIA	F169021-1	CR	---
01314	WIRELESS MEASUREMENT SOFTWARE R&S EMC32	RHODE & SCHWARZ	1040-OT102236	---	---
01374	ESR7 EMI TEST RECEIVER	ROHDE & SCHWARZ	102390	ESR7	2026-06-05
01472	ETHERNET SNMP THERMOMETER	HW GROUP	60038038794	HWg-STE Plain	2025-10-24
01473	ETHERNET SNMP THERMOMETER	HW GROUP	60038038777	HWg-STE Plain	2025-10-24
01481	SEMI-ANECHOIC CHAMBER	FRANKONIA	-	SAC-3 Square L	---
01547	FRANKONIA TRANSPARENT TEST TABLE 2	FRANKONIA	Table 2	FFT-Square	---
01564	CONTROL ROOM 2	FRANKONIA	F219025-1	CR	---

Appendix A: FCC Multi-transmitters Test Results

Appendix A

PRODUCT INFORMATION 14

TEST CONDITIONS 15

TEST A.1: EMISSION LIMITATIONS RADIATED (TRANSMITTER) 16

Product Information

The following information is provided by the client:

Information	Description
Modulation	BLE: GFSK (1 Mbps), GFSK (2 Mbps) RFID: ASK LTE: QPSK
Operation mode:	
Operating Frequency Range	BLE: 2402 - 2480 MHz RFID: 13.56 MHz LTE: 663-1980 MHz
Nominal Channel Bandwidth	BLE: 1, 2MHz RFID: 46k-1.7MHz LTE: Band 5, 10, 15, 20 / 0.2 MHz
RF Output Power	BLE: +4 dBm RFID: ≤ 17.5 dBm (55mW) LTE: 23 dBi
Antenna type	BLE: Chip RFID: Custom LDS LTE: LDS antenna
Antenna gain	BLE: +0.7 dBi
Nominal Voltage	
Supply Voltage	3.8V
Type of power source	Battery powered
Equipment type	Bluetooth Low Energy, RFID and Cellular

Test conditions

The following information is provided by the supplier

TEST CONDITIONS	DESCRIPTION				
TC/01 ⁽¹⁾	<u>Power supply (V):</u> 3.8 Vdc				
	<u>Test Frequencies for Radiated tests:</u>				
	Technology	Tested Frequency (MHz)	BW (MHz)	Modulation	Mode
	Cellular LTE	707.5	5	QPSK	Band 12
	RFID	13.56	--	ASK	--
	BTLE	2402	1	GFSK	1 Mbps
The test was performed with the equipment transmitting with Cellular LTE, RFID and BTLE radios simultaneously. These measurements have been performed in order to check the impact of the multi-transmitter of all radio interfaces that can be transmitting simultaneously.					

Note (1): The following tables and plots show the results for the worst case in Cellular LTE, RFID and BTLE

TEST A.1: EMISSION LIMITATIONS RADIATED (TRANSMITTER)

LIMITS:	Product standard:	USA FCC Part 15.207, 15.209, 15.247, 15.249, 15.407, Part 22,24,27 CANADA RSS-247, RSS-132,133,139,130, RSS-Gen
	Test standard:	Part 15 Subpart C §15.247 (d), 15.407 (b), FCC §2.1053 and §22.917, FCC §2.1046 and §24.232, FCC §2.1046 and §27.50 and RSS-Gen 8.9 and 8.10, RSS-132 Clause 5.5, RSS-133 Clause 6.4, RSS-139 Clause 6.6, RSS-130 Clause 4.6.

LIMITS

According to specification. the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. P in watts.

At P_o transmitting power. the specified minimum attenuation becomes $43+10\log (P_o)$. and the level in dBm relative P_o becomes:

$$P_o \text{ (dBm)} - [43 + 10 \log (P_o \text{ in mwatts}) - 30] = -13 \text{ dBm}$$

TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and 1-18 GHz (Double ridge horn antenna), and 1m for the frequency range 18 GHz- 40 GHz (Double ridge horn antenna).

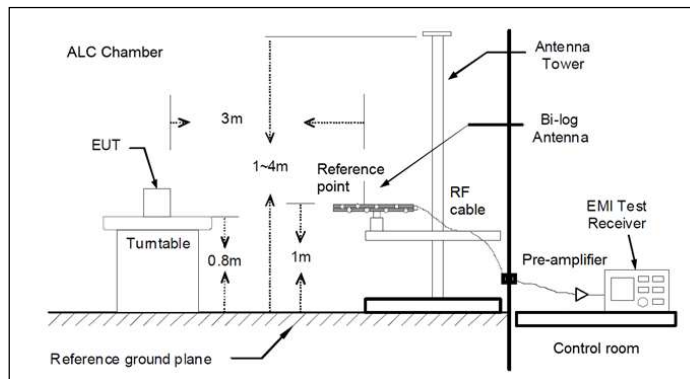
For radiated emissions in the range 18 - 40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

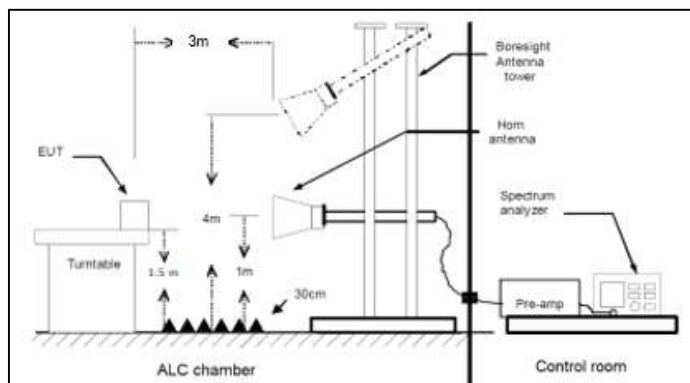
Measurements were made in both horizontal and vertical planes of polarization.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

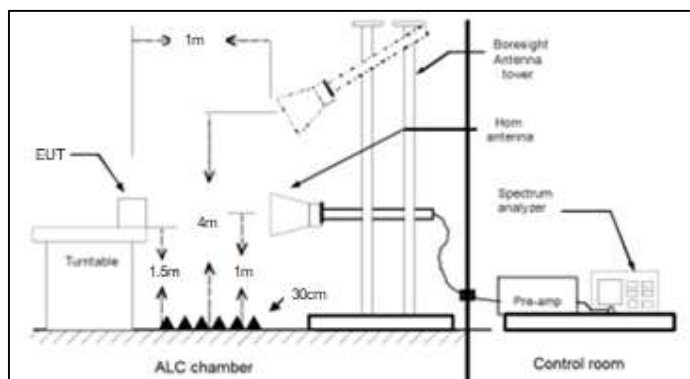
TEST SETUP (CONT.)



Radiated measurements Setup $f < 1$ GHz



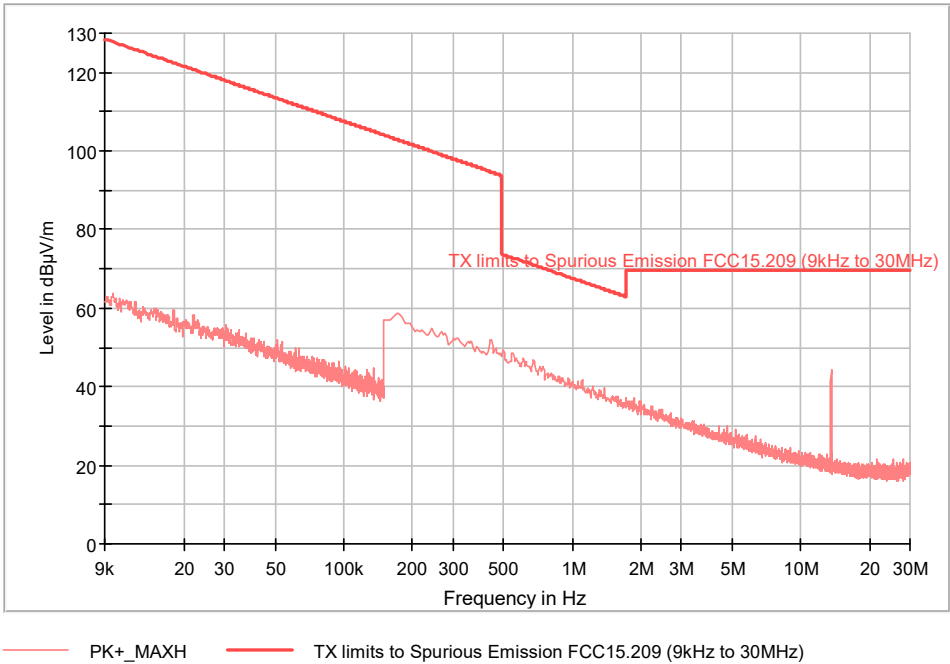
Radiated measurements setup $1 < f < 18$ GHz



Radiated measurements setup $f > 18$ GHz

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC/01
TEST RESULTS:	0.009 - 30 MHz
VERDICT:	P

Worst case detection Y axis

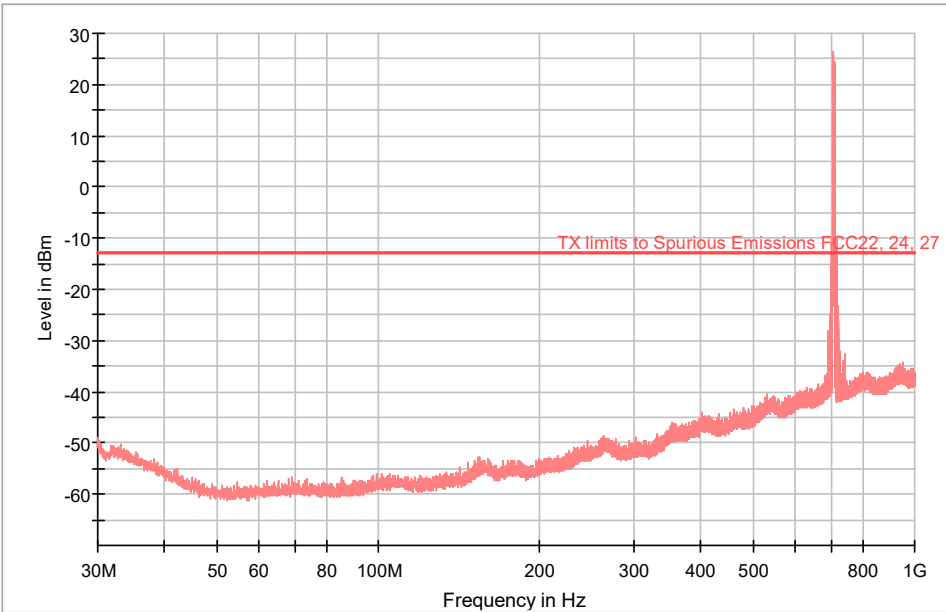


Frequency (MHz)	PK+_MAXH (dBµV/m)	Pol	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Comment
0.017996	59.6	H	62.9	122.5	
0.677350	46.7	H	24.3	71.0	
13.557625	44.4	H	---	---	RFID Fundamental

Spectrum Analyzer Parameters

Subrange	Detectors	Bandwidth	Preamp
9 kHz - 150 kHz	PK+	200 Hz	0 dB
150 kHz - 30 MHz	PK+	10 kHz	0 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC/01
TEST RESULTS:	0.030 - 1 GHz
VERDICT:	P



PK+_MAXH TX limits to Spurious Emissions FCC22, 24, 27

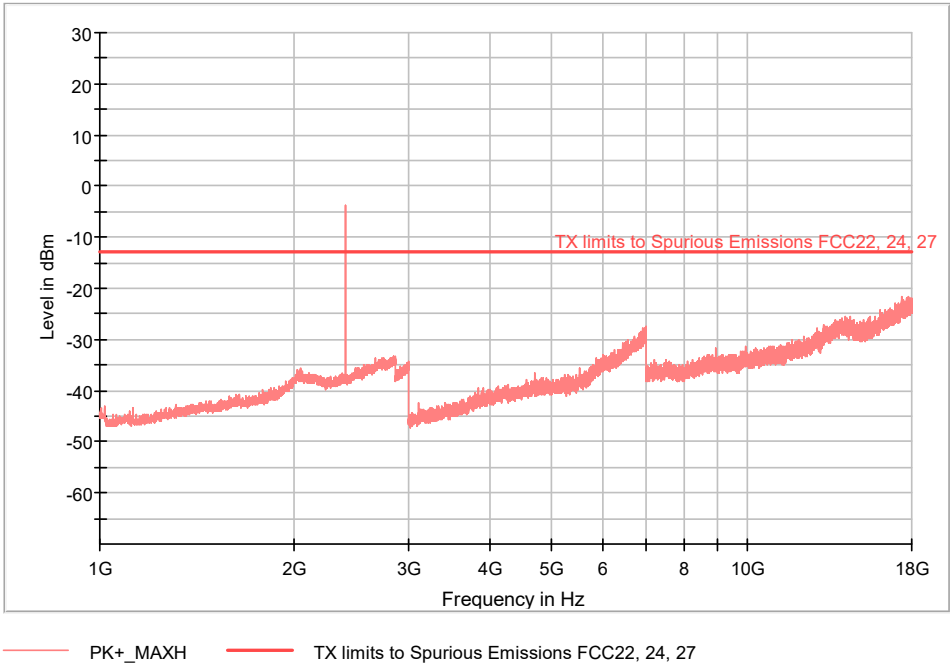
Frequency (MHz)	PK+_MAXH (dBm)	Pol	Margin - PK+ (dB)	Limit - PK+ (dBm)	Comment
33.039333	-50.2	H	37.2	-13.0	
705.799000	26.3	V	---	---	UL Fundamental
738.908333	-32.8	V	---	---	DL Fundamental

Spectrum Analyzer Parameters

Subrange	Detectors	Bandwidth	Preamp
30 MHz - 1 GHz	PK+	1 MHz	20 dB

TEST RESULTS (Cont.):

1 - 18 GHz



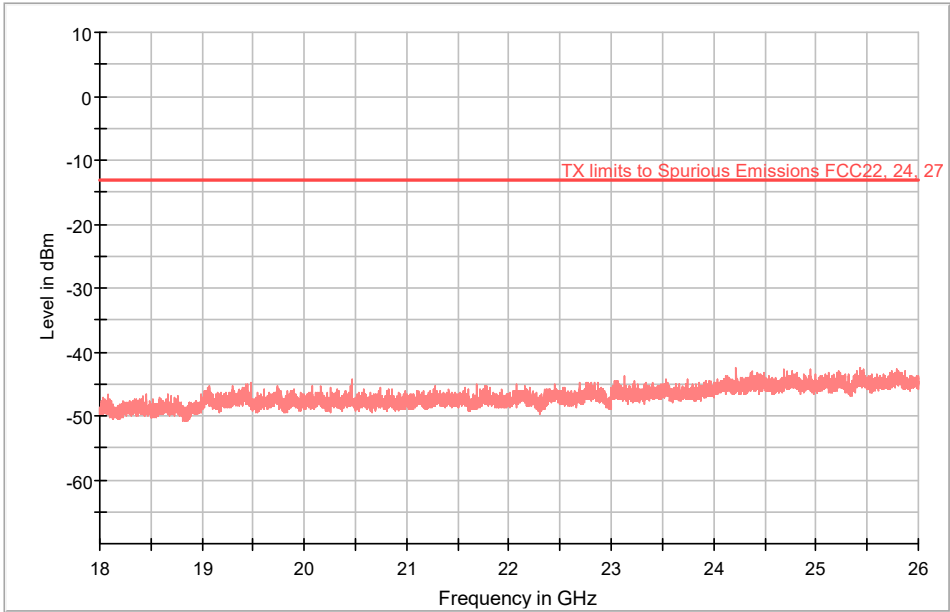
Frequency (MHz)	PK+_MAXH (dBm)	Pol	Margin - PK+ (dB)	Limit - PK+ (dBm)	Comment
2402.500000	-3.7	V	---	---	BTLE Fundamental
4711.500000	-36.6	H	23.6	-13.0	
14283.750000	-25.8	H	12.8	-13.0	

Spectrum Analyzer Parameters

Subrange	Detectors	Bandwidth	Preamp
1 GHz - 3 GHz	PK+	1 MHz	0 dB
3 GHz - 18 GHz	PK+	1 MHz	20 dB

TEST RESULTS (Cont.):

18 - 26 GHz



PK+_MAXH TX limits to Spurious Emissions FCC22, 24, 27

Frequency (MHz)	PK+_MAXH (dBm)	Pol	Margin - PK+ (dB)	Limit - PK+ (dBm)
23128.062500	-43.7	V	30.7	-13.0

Spectrum Analyzer Parameters

Subrange	Detectors	Bandwidth	Preamp
18 GHz - 26 GHz	PK+	1 MHz	20 dB