

FCC PART 15F TEST REPORT

For

**Wanma yun Electronic Technology (zhengzhou) Co.,
Ltd**

Intelligent Terminal Mobile Phone Industrial Park, Crossing at Xingang Avenue and Renmin
Road, Zhengzhou Airport District, P.R.China

FCC ID: 2AZQ7SLU-T1000


Report Type: Original Report	Product Type: UWB Tag
Report Number: <u>ATC210514-17256E-RF</u>	
Report Date: <u>2021-06-08</u>	
Reviewed By:	Ivan Cao Assistant Manager 
Prepared By:	Bay Area Compliance Laboratories Corp. (Dongguan) No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China. Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
TEST METHODOLOGY	3
MEASUREMENT UNCERTAINTY	3
SYSTEM TEST CONFIGURATION	5
DESCRIPTION OF TEST CONFIGURATION	5
EQUIPMENT MODIFICATIONS	5
EUT EXERCISE SOFTWARE	5
SUPPORT EQUIPMENT LIST AND DETAILS	5
EXTERNAL I/O CABLE	5
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
TEST EQUIPMENT LIST	8
§1.1310 & §2.1093 – RF EXPOSURE	9
APPLICABLE STANDARD	9
FCC §15.203, §15.517(a)(3) - ANTENNA REQUIREMENT	11
APPLICABLE STANDARD	11
ANTENNA CONNECTOR CONSTRUCTION	11
§15.503 (a)(d), §15.517(b) –UWB OPEARTION BANDWIDTH	12
APPLICABLE STANDARD	12
TEST PROCEDURE	12
TEST DATA	12
FCC §15.209, §15.517(c)(d)- SPURIOUS EMISSIONS	15
APPLICABLE STANDARD	15
EUT SETUP	15
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	16
TEST PROCEDURE	16
CORRECTED AMPLITUDE & MARGIN CALCULATION	17
TEST RESULTS SUMMARY	17
TEST DATA	17
§15.517(e) - PEAK EMISSION IN A 50 MHZ BANDWIDTH.....	32
APPLICABLE STANDARD	32
TEST PROCEDURE	32
TEST DATA	32

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	UWB Tag
Tested Model	SLU-T1000
Frequency	CH2: 3993.6MHz CH5: 6489.6MHz
Antenna Specification [▲]	CH2: 2.7dBi, CH5: 1.8dBi
Voltage Range	DC3.7V from Battery
Date of Test	2021-05-18 to 2021-05-22
Sample serial number	ATC210514-17256E-RF-S1
Received date	2021-05-14
Sample/EUT Status	Good condition

Objective

This report is prepared on behalf of Wanma yun Electronic Technology (zhengzhou) Co., Ltd in accordance with Part 2-Subpart J, Part 15-Subparts A and F of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart F, and section 15.203, 15.205, 15.207, 15.209 and 15.517 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	5 %
RF output power, conducted	0.61dB
Power Spectral Density, conducted	0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, conducted	1.5 dB
Temperature	1 °C
Humidity	5%
DC and low frequency voltages	0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 897218, the FCC Designation No.: CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

Radio	Channel	Frequency (MHz)	Rate (Mbps)	Power Setting [▲]
UWB	2	3993.6	6.8	Default
	5	6489.6	6.8	Default

Note: This product is indoor UWB systems, which declared by the manufacturer.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

No exercise software was used.

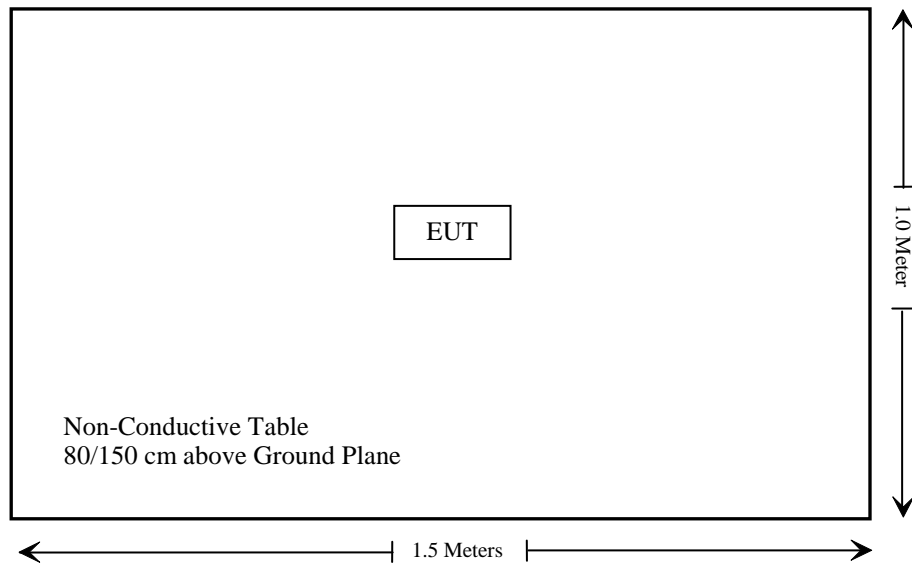
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310, §2.1093	RF Exposure	Compliance
§15.203, §15.517(a)(3)	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Not Applicable
§15.517(a)	Limited to UWB transmitters employed solely for indoor operation	Compliance*
§15.503 (a)(d), §15.517(b)	UWB Operation bandwidth	Compliance
§15.209, §15.517(c)(d)	Radiated Emissions	Compliance
§15.517(e)	Peak Emission in a 50 MHz bandwidth	Compliance

Not Applicable: The EUT is powered by battery.

Compliance*: Please refer to statement in the User manual, which declared by manufacturer.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
HP	Amplifier	8447D	2727A05902	2020-09-05	2021-09-05
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-05-06	2022-05-06
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
R&S	Spectrum Analyzer	FSP 38	100478	2020-07-07	2021-07-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2020-06-27	2021-06-27
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26 EA	2020-09-25	2021-09-25
Unknown	Coaxial Cable	C-SJ00-0010	C0010/04	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/04	Each time	N/A

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

§1.1310 & §2.1093 – RF EXPOSURE

Applicable Standard

For CH 2 (3993.6MHz):

According to FCC §2.1093, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Mode	Frequency (MHz)	Maximum Tune-up EIRP		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
UWB	3993.6	-53	0.00005	5	0.0	3.0	Yes

Result: Compliance

For CH 5 (6489.6MHz):

RF Exposure for devices that operate above 6 GHz (1.1310):

2.1093 (d): Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified 47 CFR 1.1310. Measurements and calculations to demonstrate compliance with MPE Field strength or power density limits for device operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

For worst case:

Frequency (MHz)	Tune up EIRP		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBm)	(mW)			
UWB CH5 (6489.6)	-51	0.000008	0.5	0.000003	1.0

Result: Compliance

FCC §15.203, §15.517(a)(3) - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
 - b. Antenna must use a unique type of connector to attach to the EUT.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

(3) The use of outdoor mounted antennas, e.g., antennas mounted on the outside of a building or on a telephone pole, or any other outdoors infrastructure is prohibited.

Antenna Connector Construction

The EUT has internal antenna arrangement which was permanently attached and the antenna gain is 2.7dBi(CH2) and 1.8dBi(CH5), fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

§15.503 (a)(d), §15.517(b) –UWB OPEARTION BANDWIDTH

Applicable Standard

(a) UWB bandwidth. For the purpose of this subpart, the UWB bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated f_H and the lower boundary is designated f_L . The frequency at which the highest radiated emission occurs is designated f_M .

(d) Ultra-wideband (UWB) transmitter. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

(b) The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

Test Procedure

Refer to the C63.10-2013 Section 10.1

Test Data**Environmental Conditions**

Temperature:	25°C
Relative Humidity:	52 %
ATM Pressure:	101.0kPa
Tester:	Joker Chen
Test Date:	2021-05-22

Test Result: Pass.

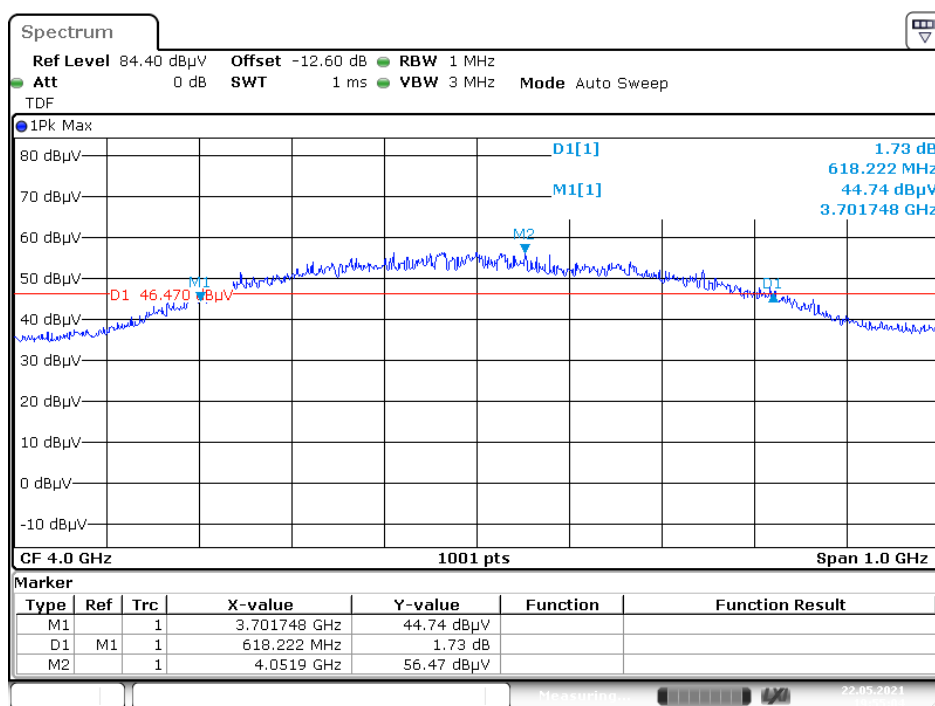
EUT operation mode: Transmitting

Please refer to the following table and plots.

Test distance is 0.7m.

CH2:

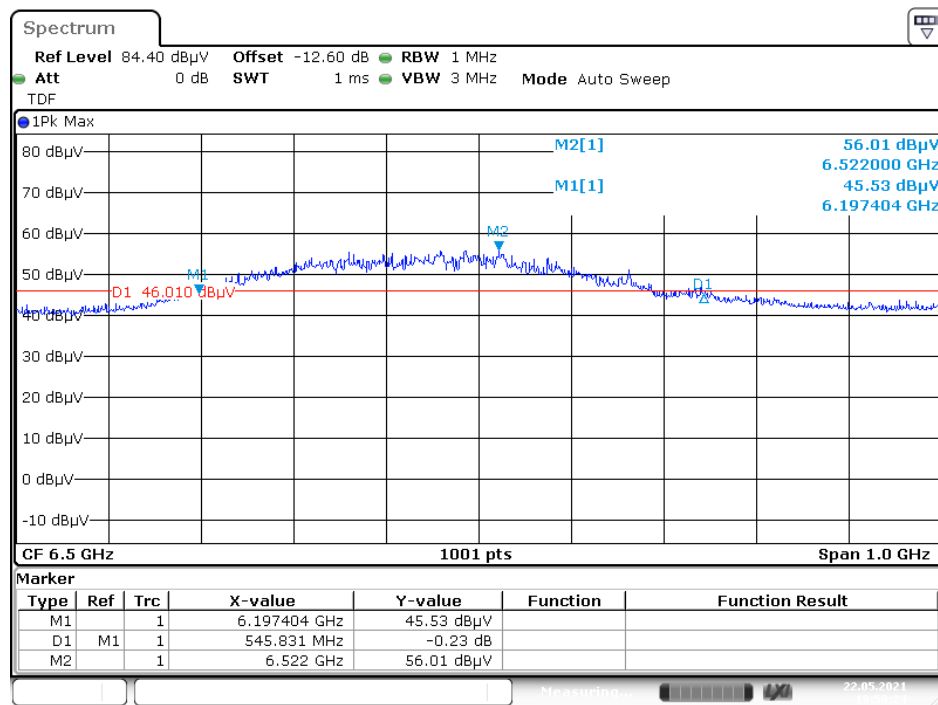
Item		Result	Limit (MHz)
f_M (MHz)	The highest emission frequency	4051.9	/
f_L (MHz)	10dB below the highest emission	3701.748	>3100
f_H (MHz)	10dB above the highest emission	4319.97	<10600
f_C (MHz)	$(f_H + f_L)/2$	4010.859	/
10dB bandwidth(MHz)	$f_H - f_L$	618.222	≥ 500
Fractional bandwidth	$2(f_H - f_L) / (f_H + f_L)$	0.154	/

10dB Bandwidth

Date: 22.MAY.2021 19:55:05

CH5:

Item		Result	Limit (MHz)
f_M (MHz)	The highest emission frequency	6522	/
f_L (MHz)	10dB below the highest emission	6197.404	>3100
f_H (MHz)	10dB above the highest emission	6743.235	<10600
f_C (MHz)	$(f_H + f_L)/2$	6470.32	/
10dB bandwidth(MHz)	$f_H - f_L$	545.831	≥ 500
Fractional bandwidth	$2(f_H - f_L) / (f_H + f_L)$	0.084	/

10dB Bandwidth

Date: 22.MAY.2021 19:50:24

FCC §15.209, §15.517(c)(d)- SPURIOUS EMISSIONS

Applicable Standard

FCC §15.209; §15.517(c)(d);

(c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

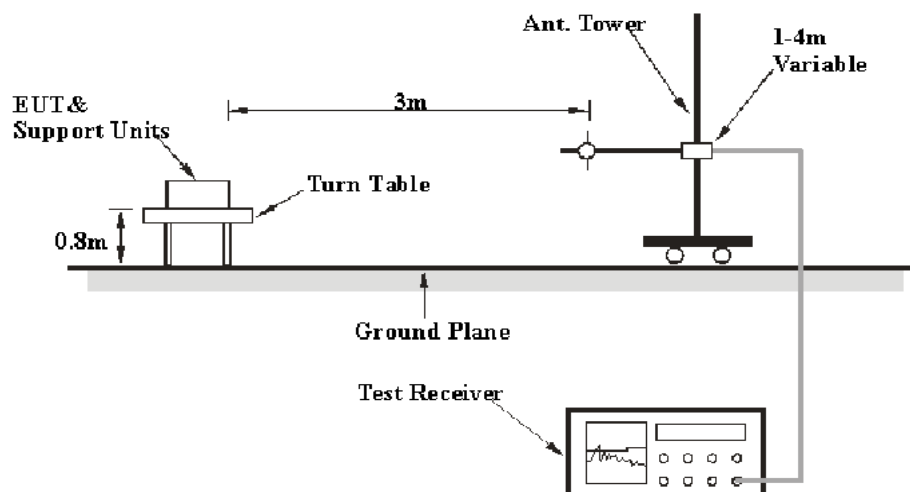
Frequency in MHz	EIRP in dBm
960-1610	-75.3
1610-1990	-53.3
1990-3100	-51.3
3100-10600	-41.3
Above 10600	-51.3

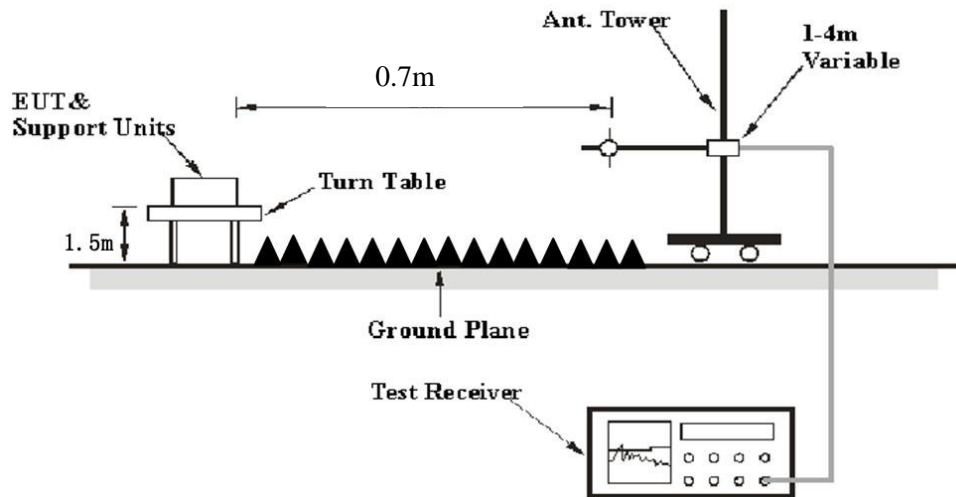
(d) In addition to the radiated emission limits specified in the table in paragraph (c) of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

EUT Setup

Below 960MHz:



Above 960MHz:

The radiated emission tests were performed in the 3 meters chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.517 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 960 MHz	100 kHz	300 kHz	120 kHz	QP
Above 960 MHz	1MHz	3 MHz	/	Average
	1kHz	3kHz	/	Average*

Note: * For the radiated spurious emission in the GPS band.

Test Procedure

Refer to the C63.10-2013 Section 10.2 & 10.3

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Result} - \text{Limit}$$

Test Results Summary

According to the EUT complied with the FCC Title 47, Part 15, Subpart F, section 15.205, 15.209 and 15.517.

Test Data

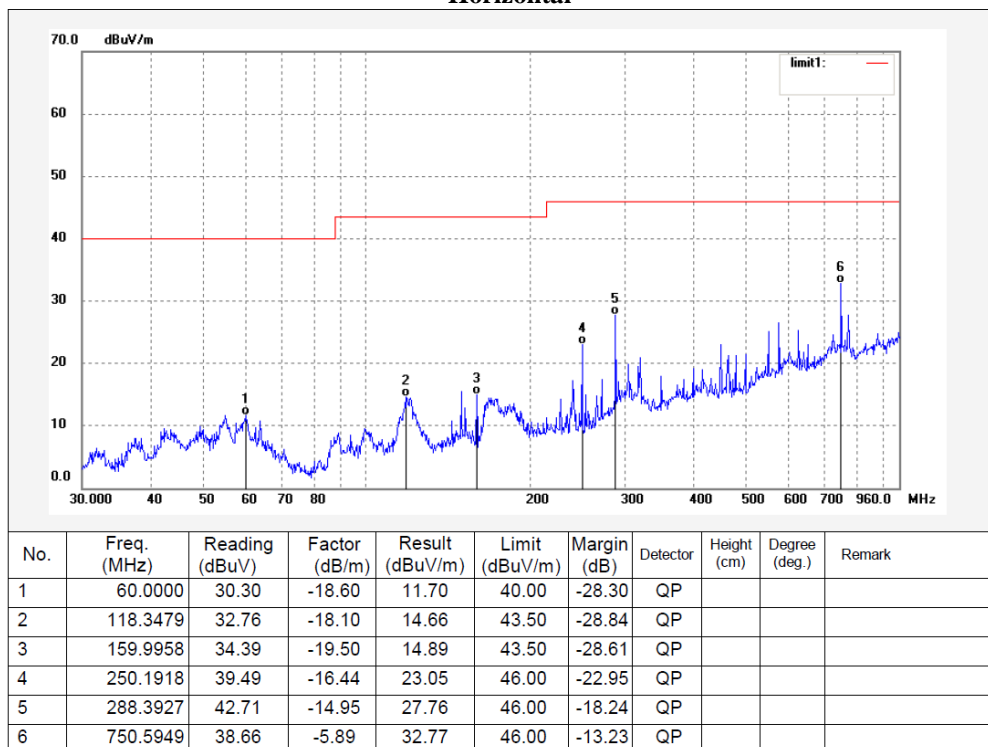
Environmental Conditions

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	27°C	27-28°C
Relative Humidity:	55%	56-58%
ATM Pressure:	101.0kPa	101.0kPa
Tester:	Jalon Liu	Joker Chen
Test Date:	2021-05-18	2021-05-18 ~ 2021-05-22

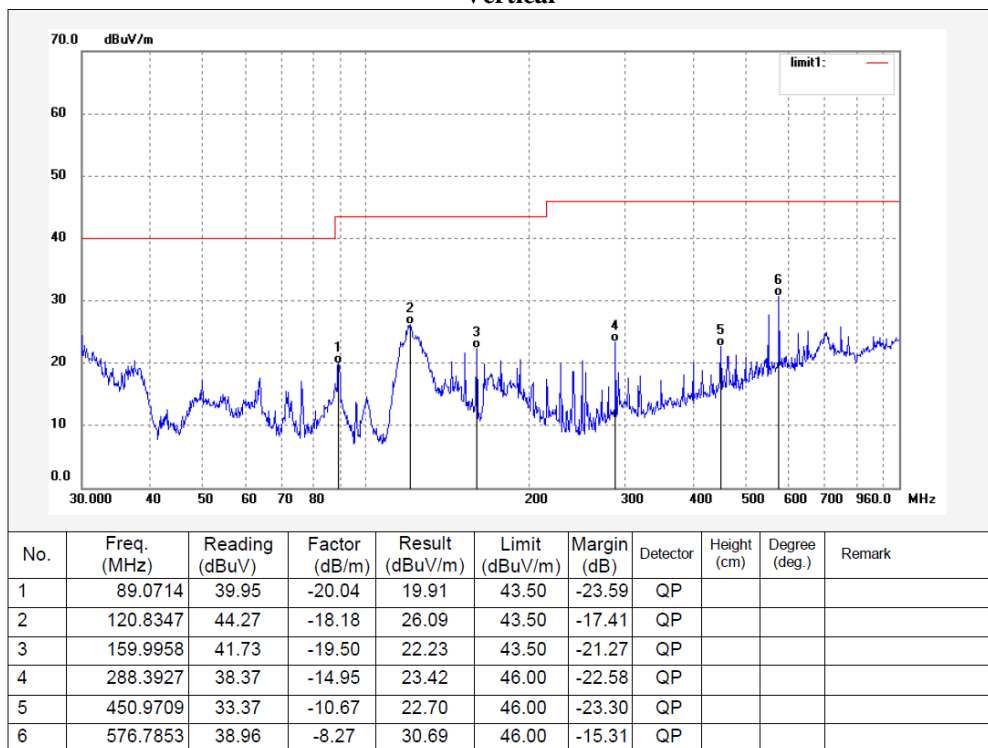
EUT operation mode: Transmitting

30 MHz~960MHz:
CH2:

Horizontal

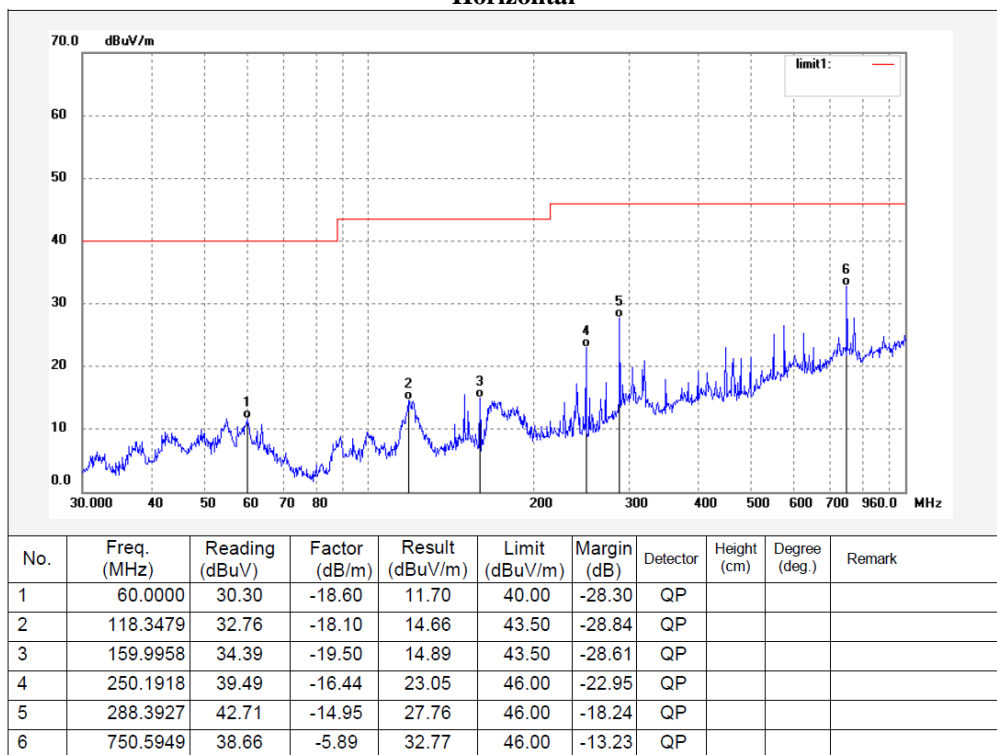


Vertical

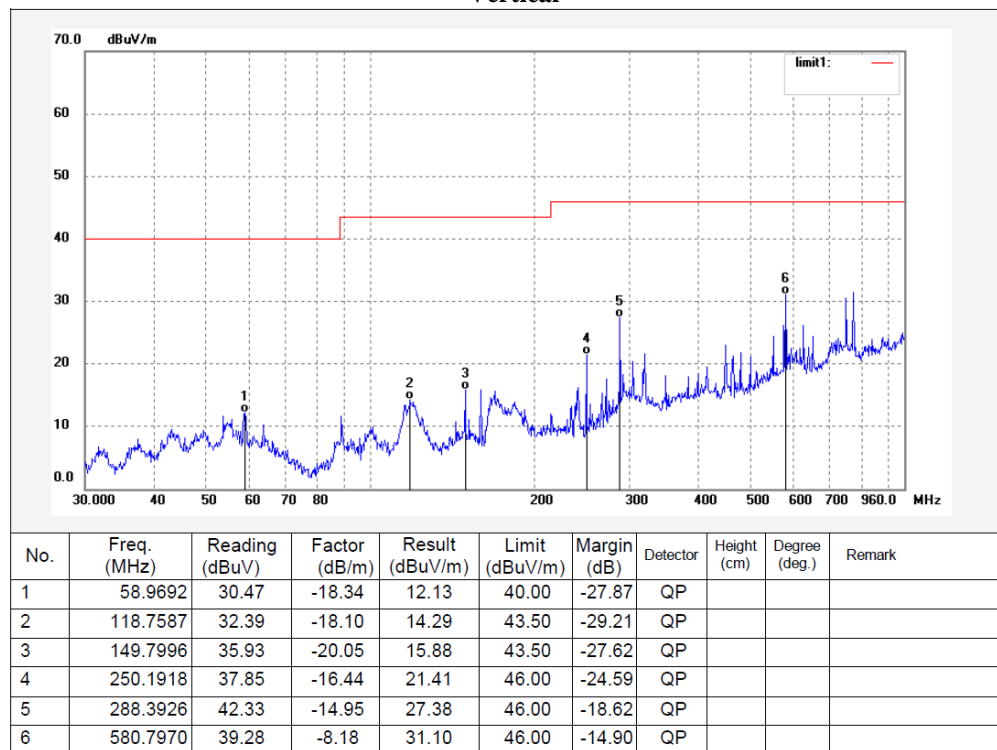


CH5:

Horizontal



Vertical



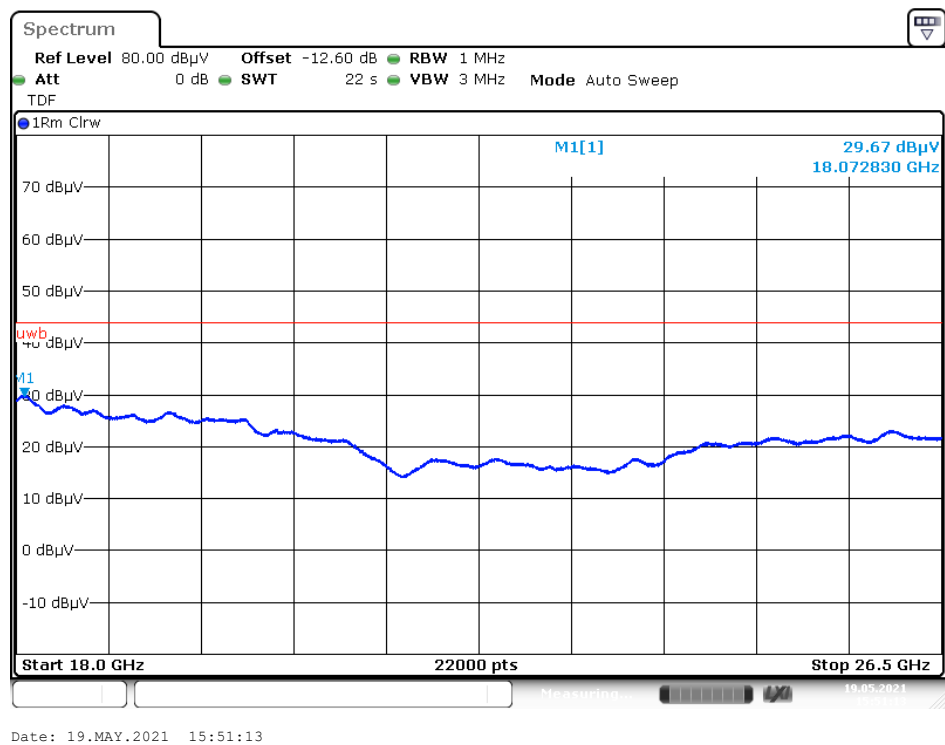
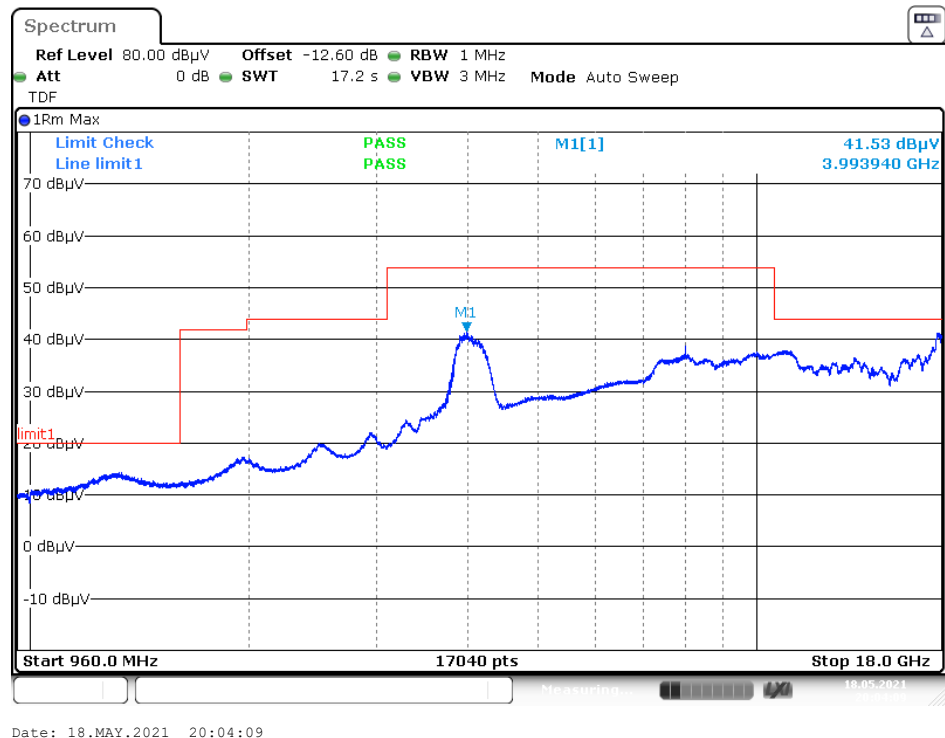
Spurious radiated emission above 960MHz in non GPS band:

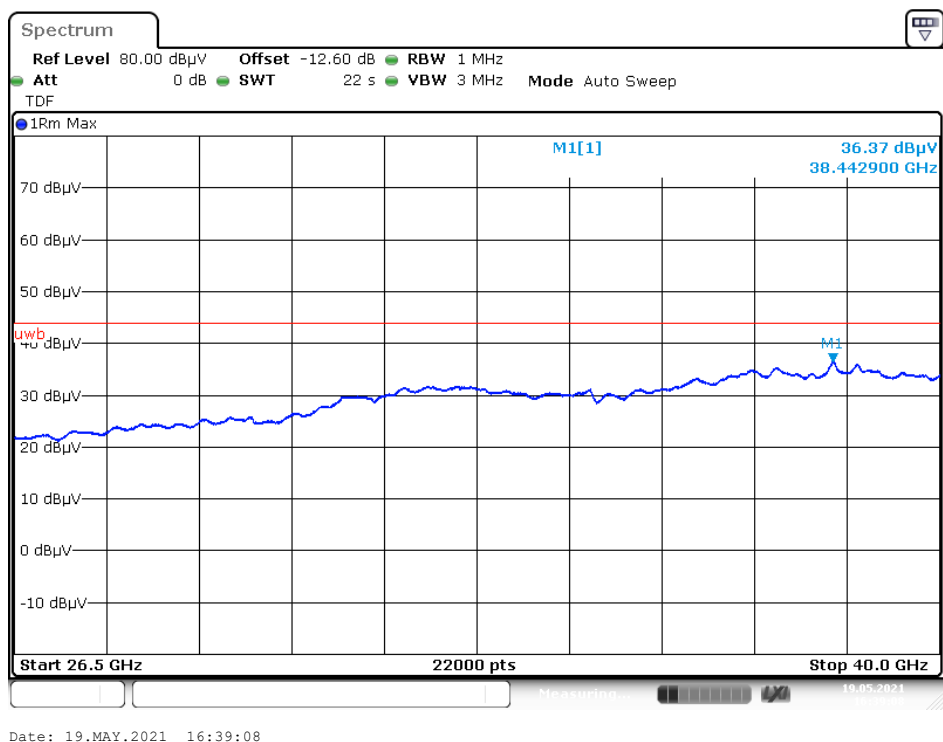
1. The test distance is 0.7m, so the correct factor from 3m to 0.7m is $20\log(3/0.7)=12.6\text{dB}$ which was added into the offset on the spectrum analyzer.
2. $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.
3. The antenna factor, cable loss and preamplifier gain have been entered into the analyzer as the transducer factor.

Frequency (MHz)	Corrected Amplitude (dB $\mu\text{V/m}$)	EIRP (dBm)	Detector	Turntable Degree	Rx Antenna		Part 15.517	
					Height (m)	Polar (H / V)	EIRP Limit (dBm)	Margin (dB)
CH2								
3993.94	41.53	-53.67	RMS	316	1.6	H	-41.30	12.37
18072.83	29.67	-65.53	RMS	251	1.5	H	-51.30	14.23
38442.90	36.37	-58.83	RMS	207	2.1	H	-51.30	7.53
4000.99	40.61	-54.59	RMS	119	1.8	V	-41.30	13.29
18061.63	29.97	-65.23	RMS	73	1.8	V	-51.30	13.93
38453.94	36.39	-58.81	RMS	161	1.5	V	-51.30	7.51
CH5								
6617.26	44.10	-51.10	RMS	75	1.6	H	-41.30	9.80
18073.60	30.03	-65.17	RMS	168	2.0	H	-51.30	13.87
38449.65	36.30	-58.90	RMS	91	1.8	H	-51.30	7.60
6620.68	44.10	-51.10	RMS	263	1.7	V	-41.30	9.80
18068.19	30.08	-65.12	RMS	109	1.5	V	-51.30	13.82
38444.74	36.40	-58.80	RMS	134	1.4	V	-51.30	7.50

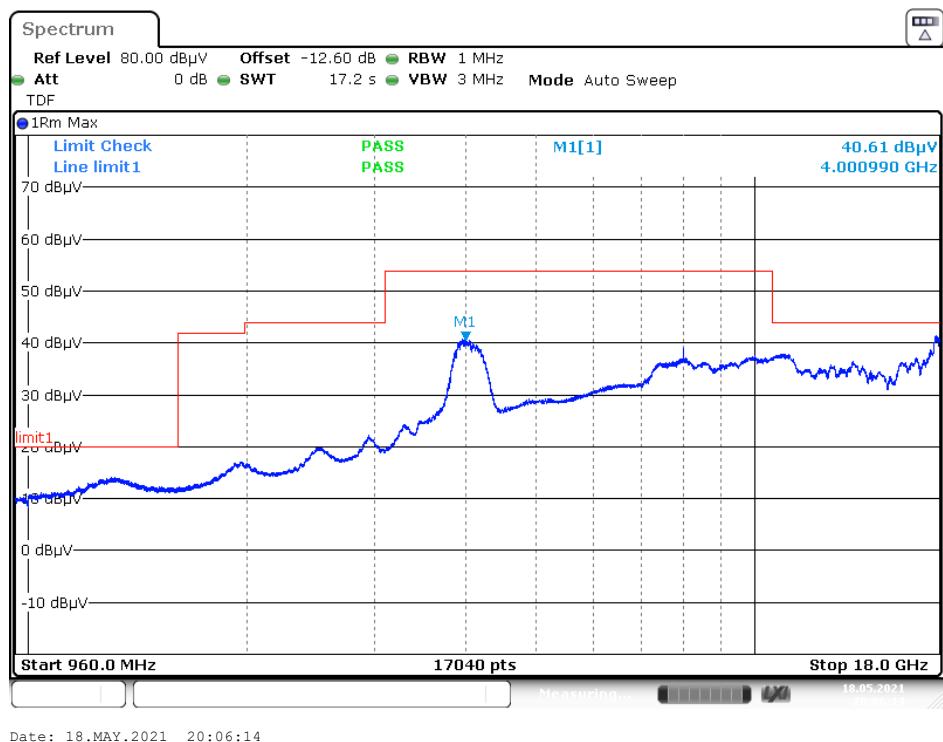
CH2

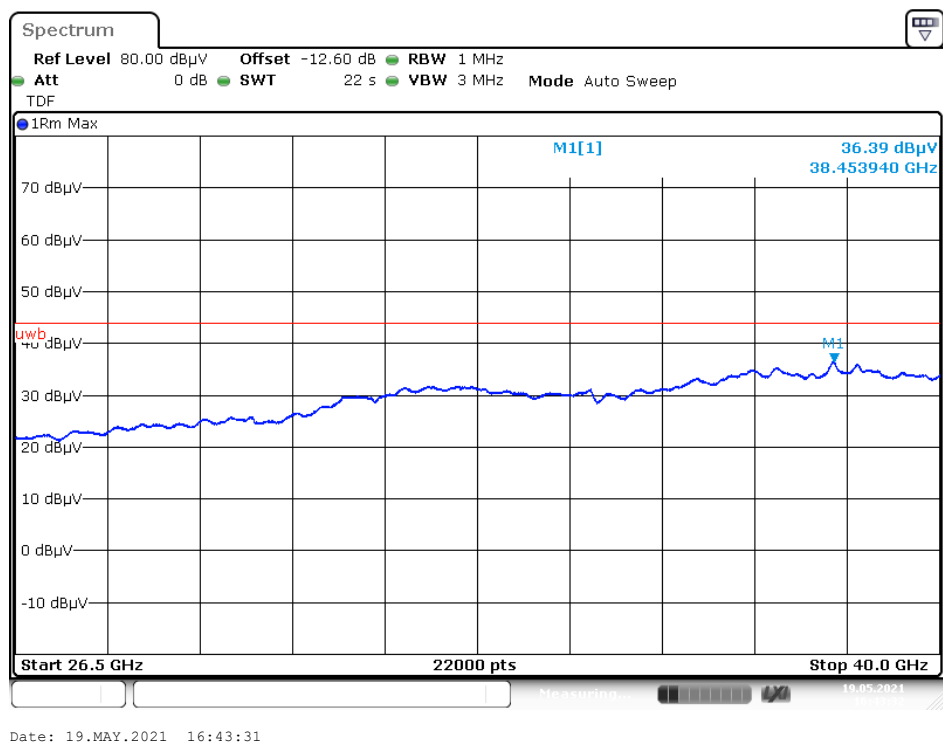
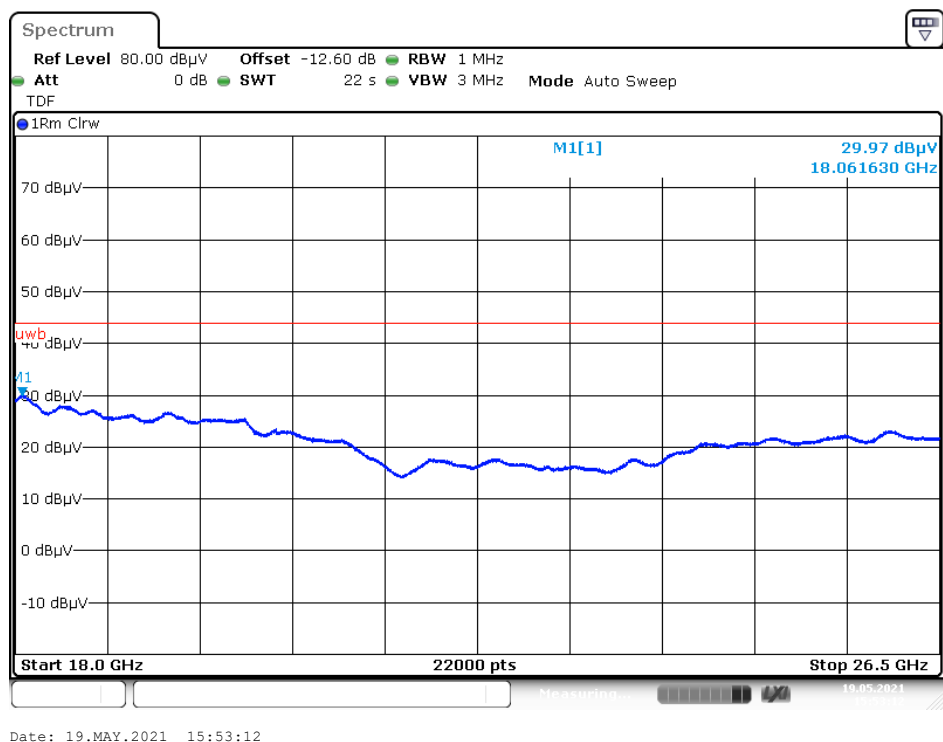
Horizontal





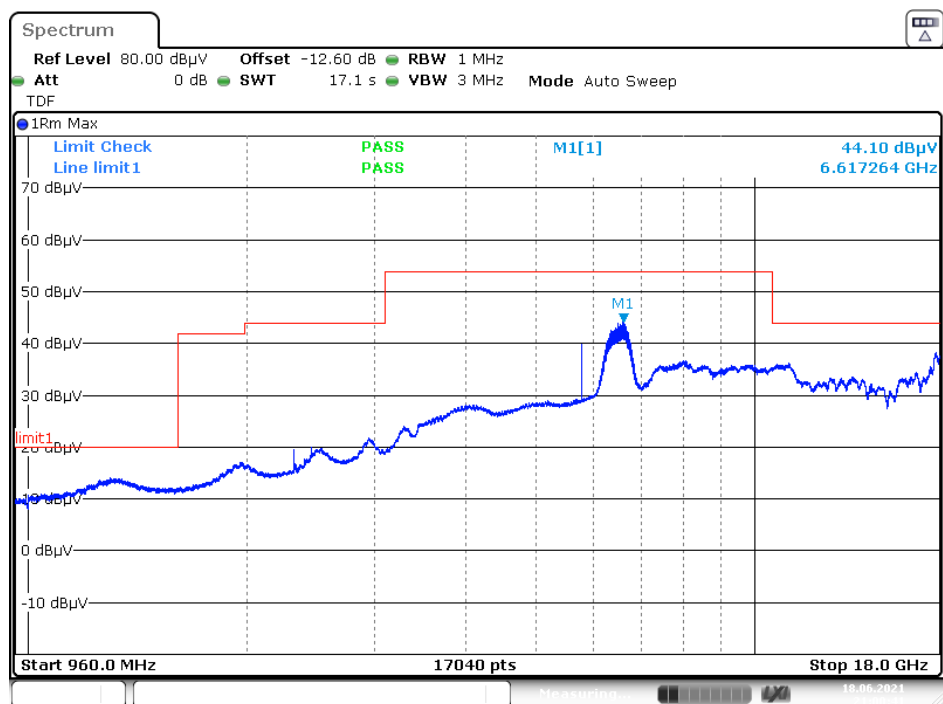
Vertical



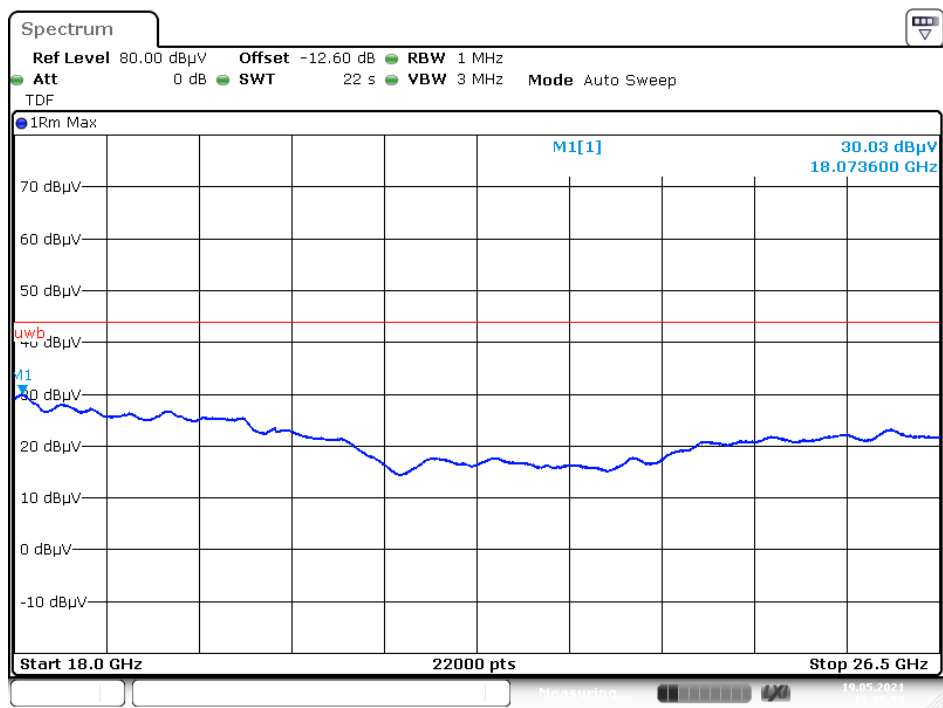


CH5

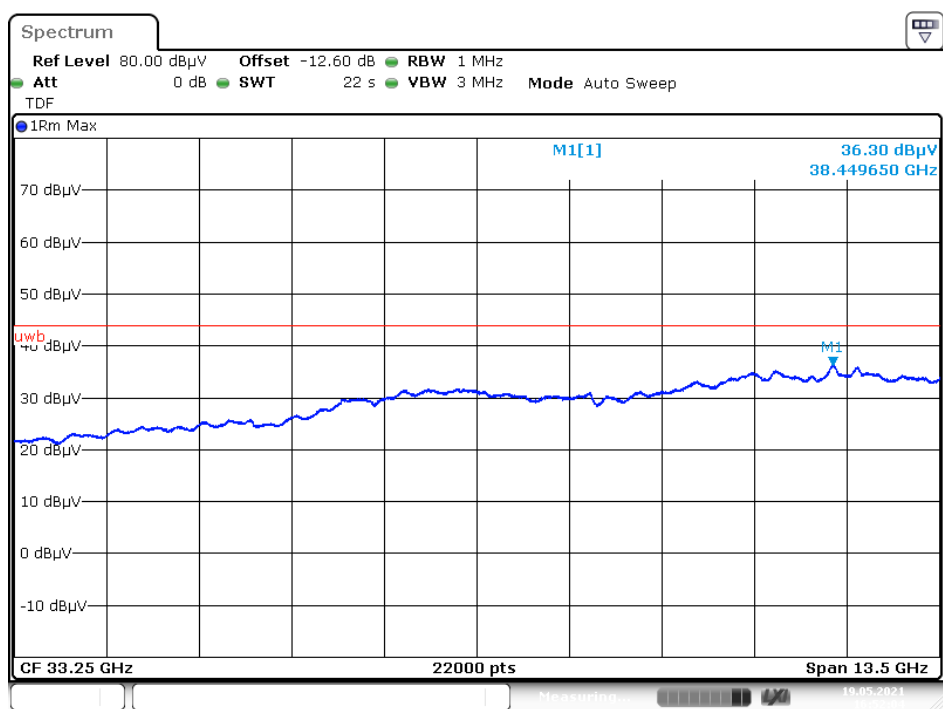
Horizontal



Date: 18.JUN.2021 21:00:41

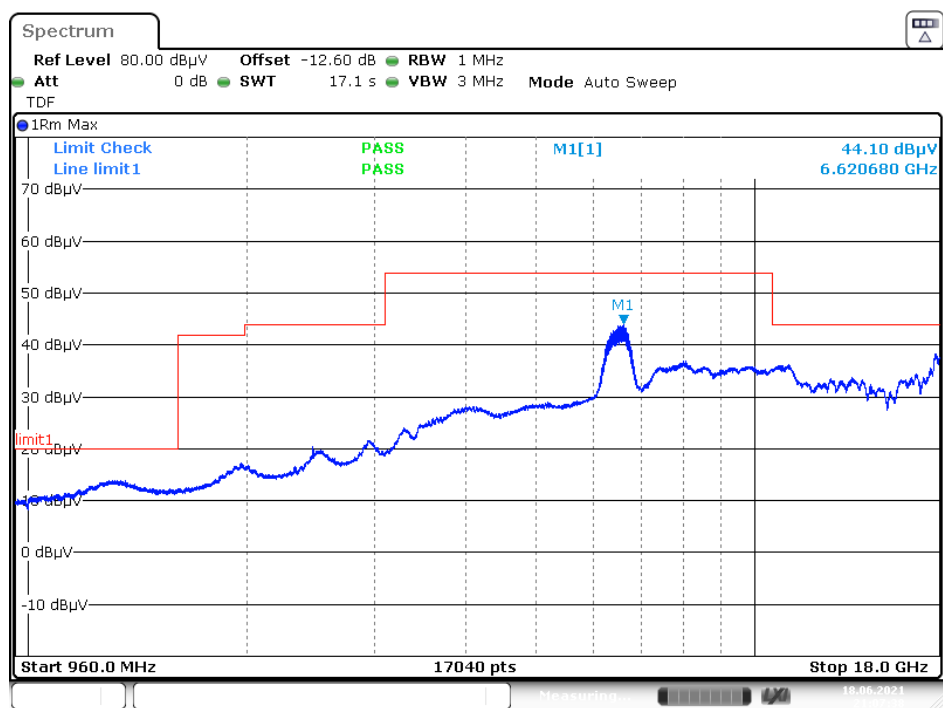


Date: 19.MAY.2021 15:55:53

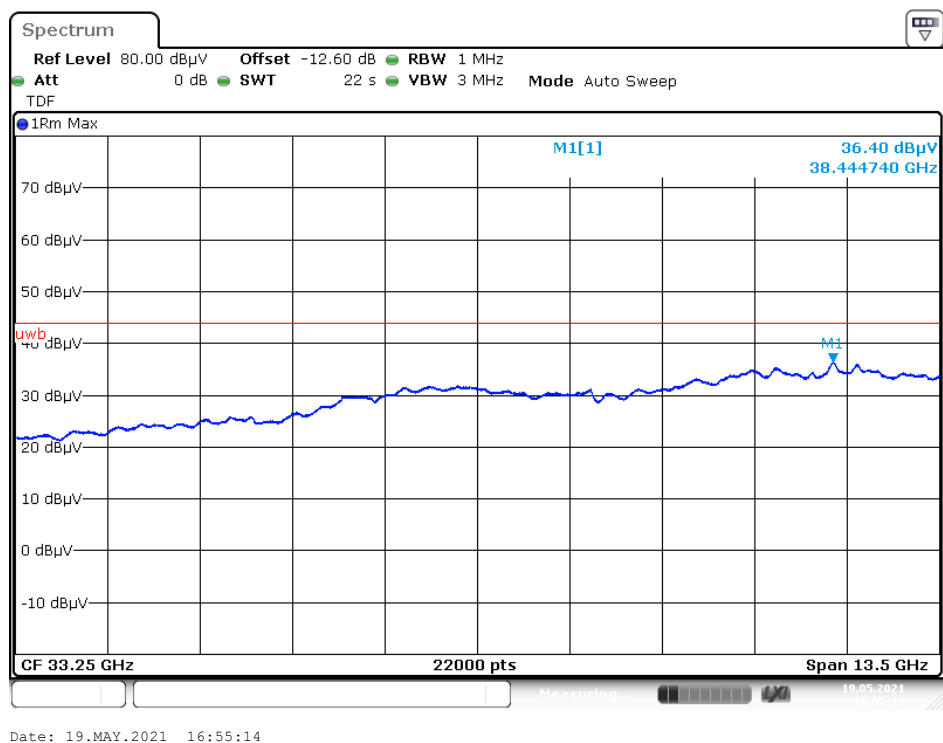
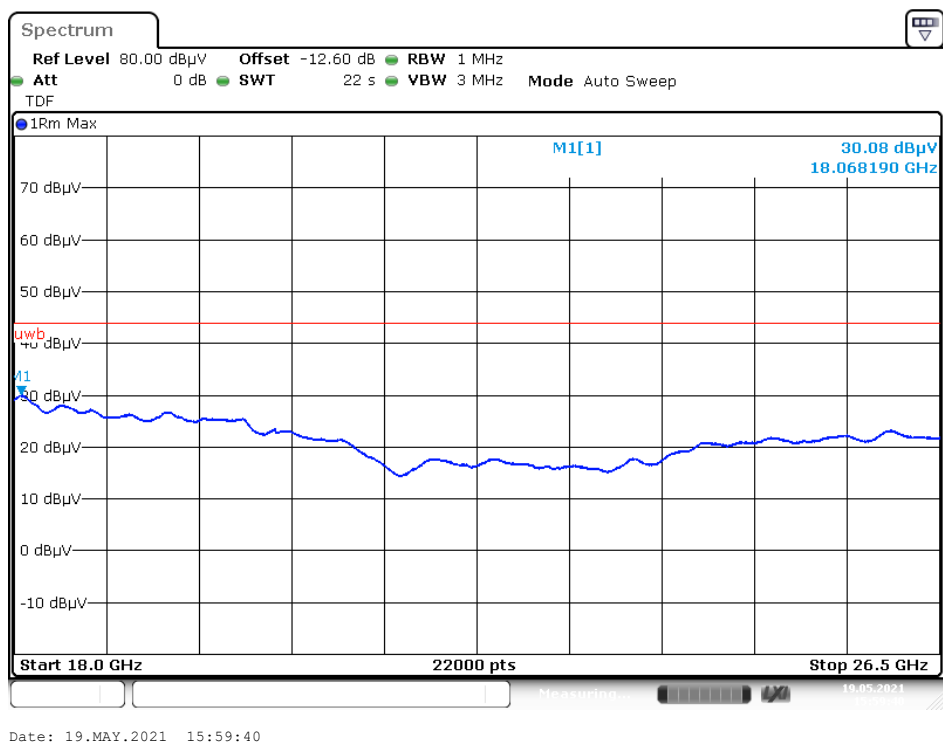


Date: 19.MAY.2021 16:52:04

Vertical



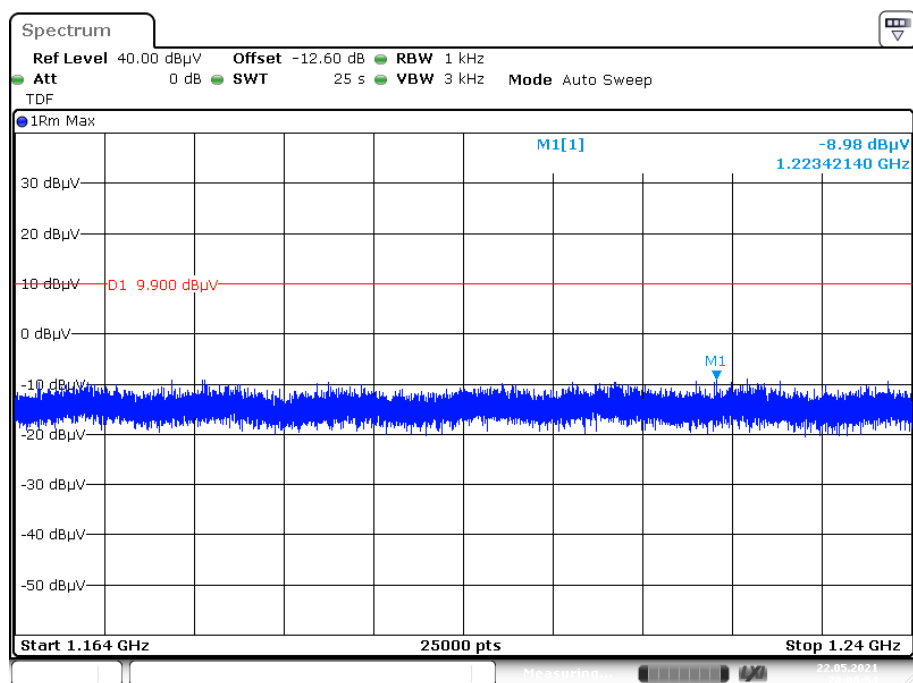
Date: 18.JUN.2021 21:07:38



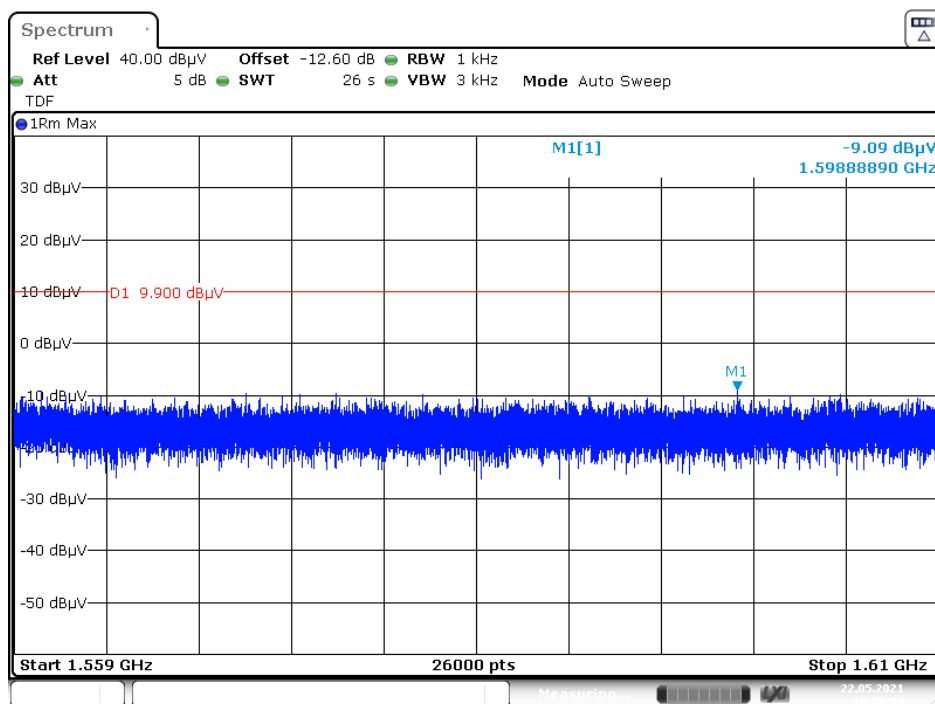
Spurious radiated emission above 960MHz in GPS band:

1. The test distance is 0.7m, so the correct factor from 3m to 0.7m is $20\log(3/0.7)=12.6\text{dB}$ which was added into the offset on the spectrum analyzer.
2. $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.
3. The antenna factor, cable loss and preamplifier gain have been entered into the analyzer as the transducer factor.

Frequency (MHz)	Corrected Amplitude (dB $\mu\text{V/m}$)	EIRP (dBm)	Detector	Turntable Degree	Rx Antenna Height (m)	Polar (H / V)	Part 15.17	
							EIRP Limit (dBm)	Margin (dB)
CH2								
1223.42	-8.98	-104.18	RMS	247	1.9	H	-85.3	18.88
1216.33	-8.65	-103.85	RMS	180	1.5	V	-85.3	18.55
1598.89	-9.09	-104.29	RMS	75	1.5	H	-85.3	18.99
1607.33	-8.30	-103.50	RMS	26	1.0	V	-85.3	18.20
CH5								
1180.92	-9.21	-104.41	RMS	52	1.8	H	-85.3	19.11
1214.46	-9.04	-104.24	RMS	18	1.3	V	-85.3	18.94
1577.39	-8.92	-104.12	RMS	140	2.3	H	-85.3	18.82
1601.79	-8.97	-104.17	RMS	84	1.2	V	-85.3	18.87

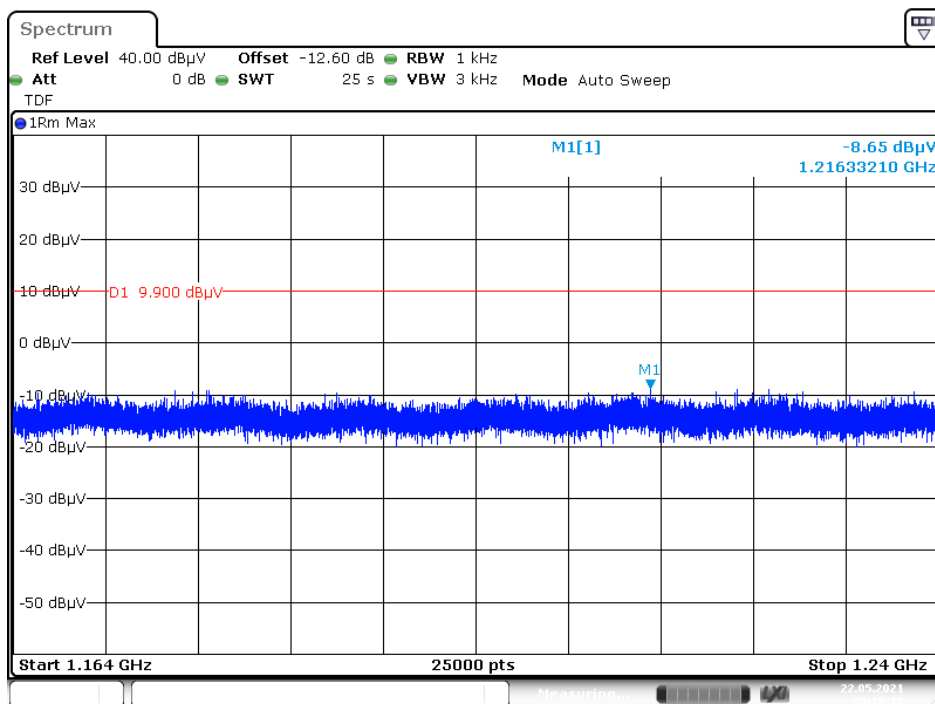
CH2:**Horizontal**

Date: 22.MAY.2021 20:08:54

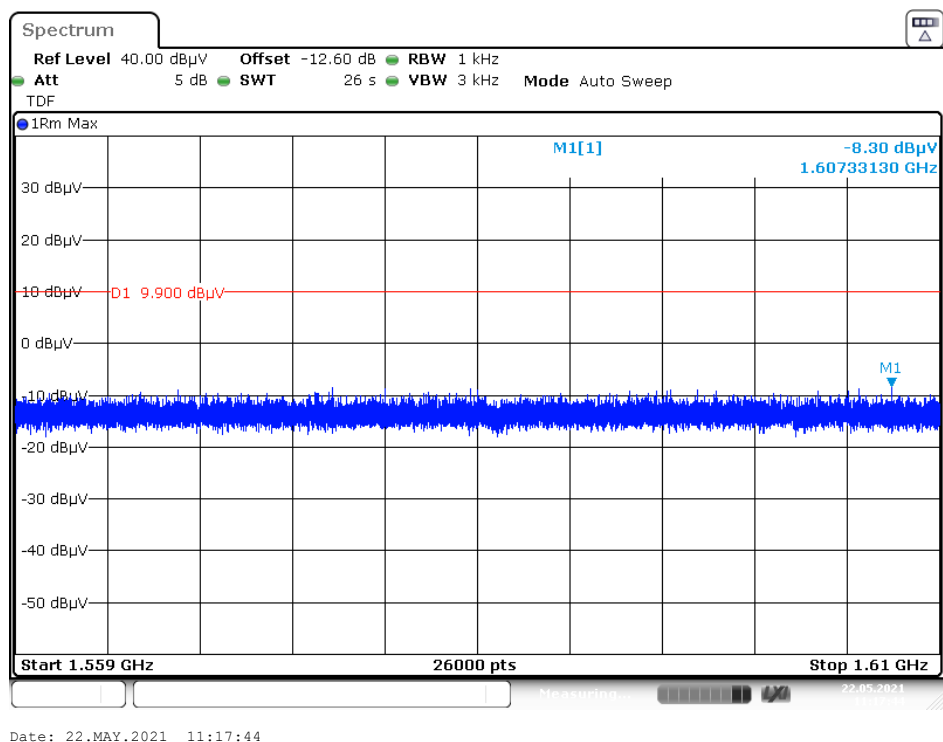


Date: 22.MAY.2021 10:55:04

Vertical

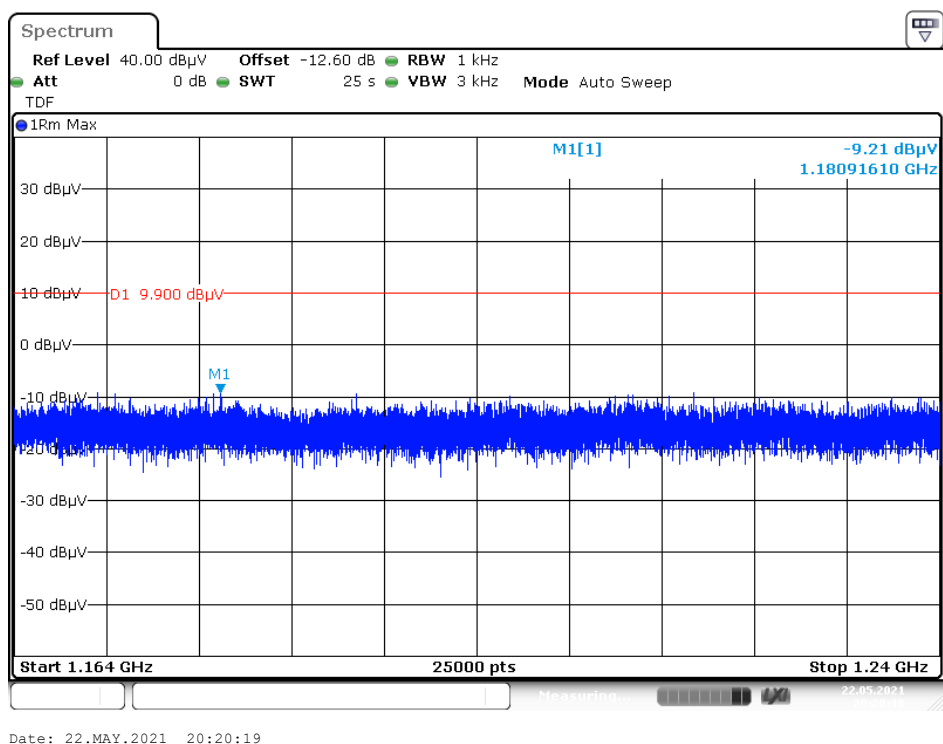


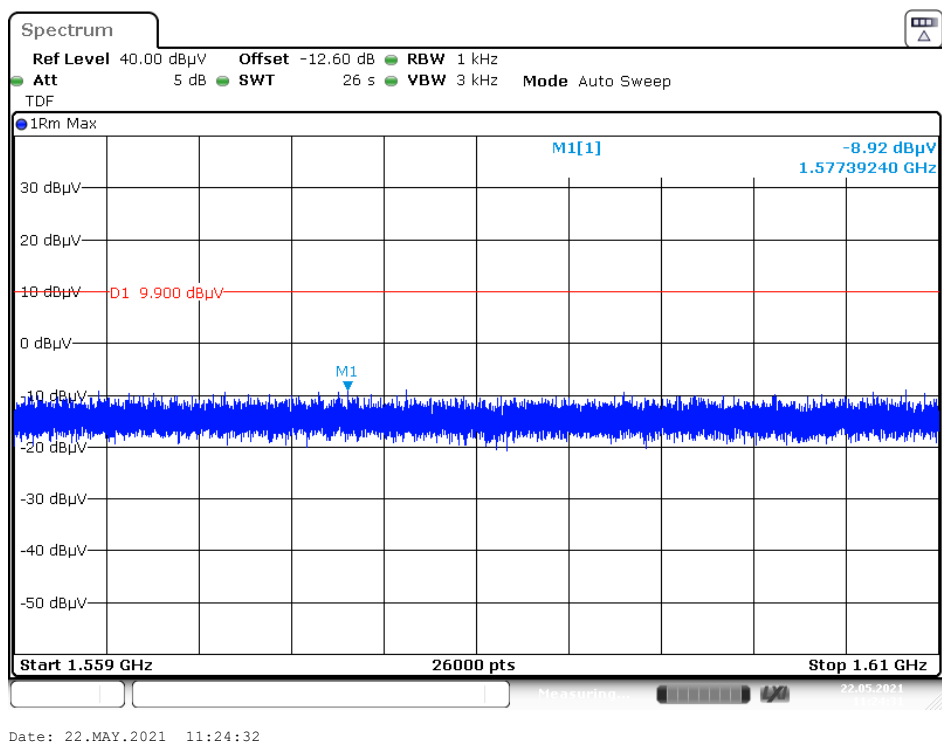
Date: 22.MAY.2021 20:15:13



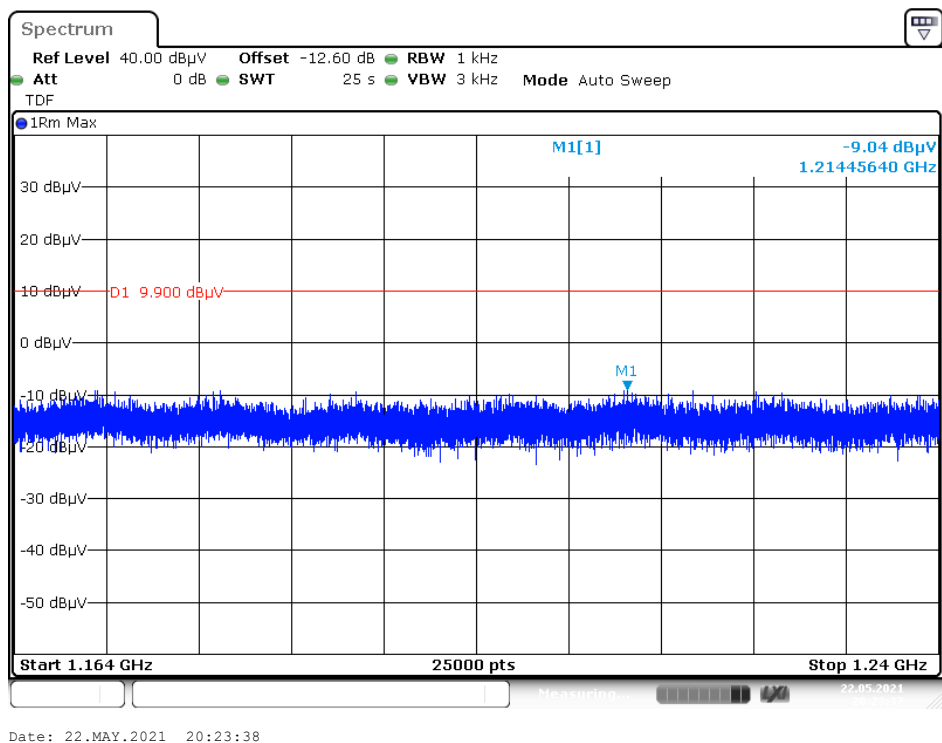
CH5:

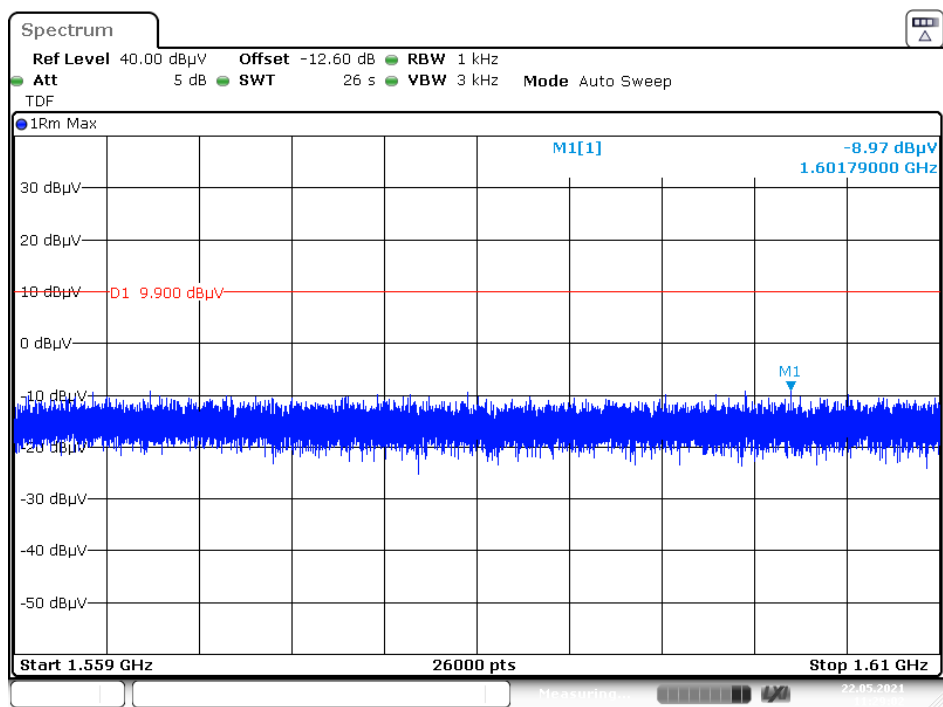
Horizontal





Vertical





Date: 22.MAY.2021 11:29:02

§15.517(e) - PEAK EMISSION IN A 50 MHZ BANDWIDTH

Applicable Standard

There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_M . That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in §15.521.

Test Procedure

Refer to the C63.10-2013 Section 10.3.5.

Test Data

Environmental Conditions

Temperature:	25°C
Relative Humidity:	52 %
ATM Pressure:	101.0kPa
Tester:	Joker Chen
Test Date:	2021-05-22

EUT operation mode: Transmitting

Frequency (MHz)	Reading level (dBμV/m) RBW=10MHz	EIRP (dBm/10MHz)	EIRP (dBm/50MHz)	Limit
				dBm/50MHz
3960.2	74.80	-20.4	-6.4	0
6488.0	71.98	-23.22	-9.22	0

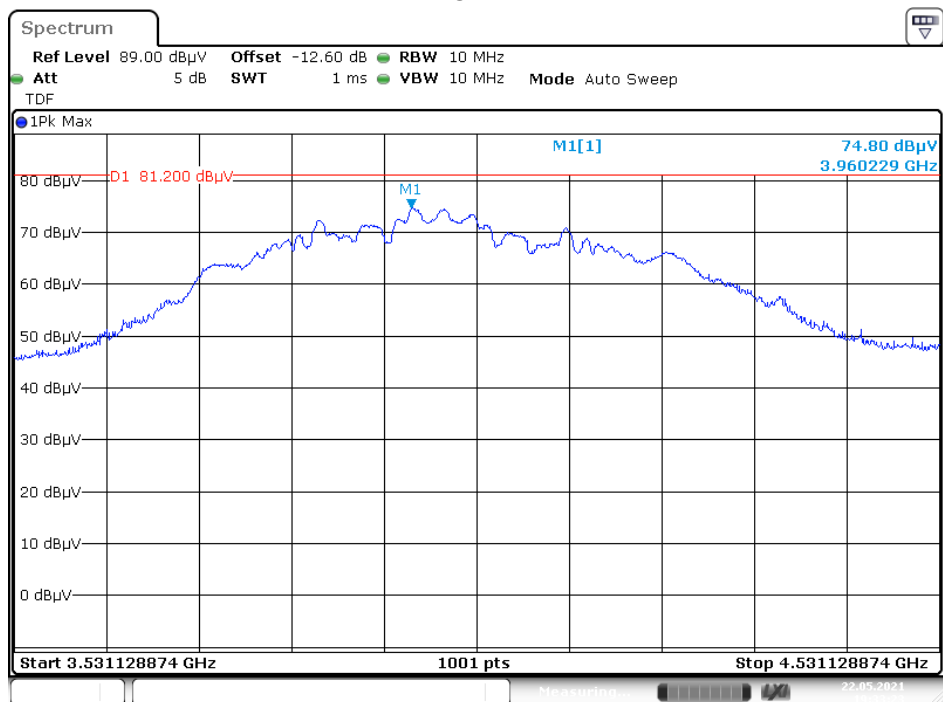
Note: 1. The test distance is 0.7m, so the correct factor from 3m to 0.7m is $20\log(3/0.7)=12.6\text{dB}$ which was added into the offset on the spectrum analyzer.

2. The correct factor of RBW 10MHz to 50MHz is $20\log(50\text{MHz}/10\text{MHz})=14$

3. $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.

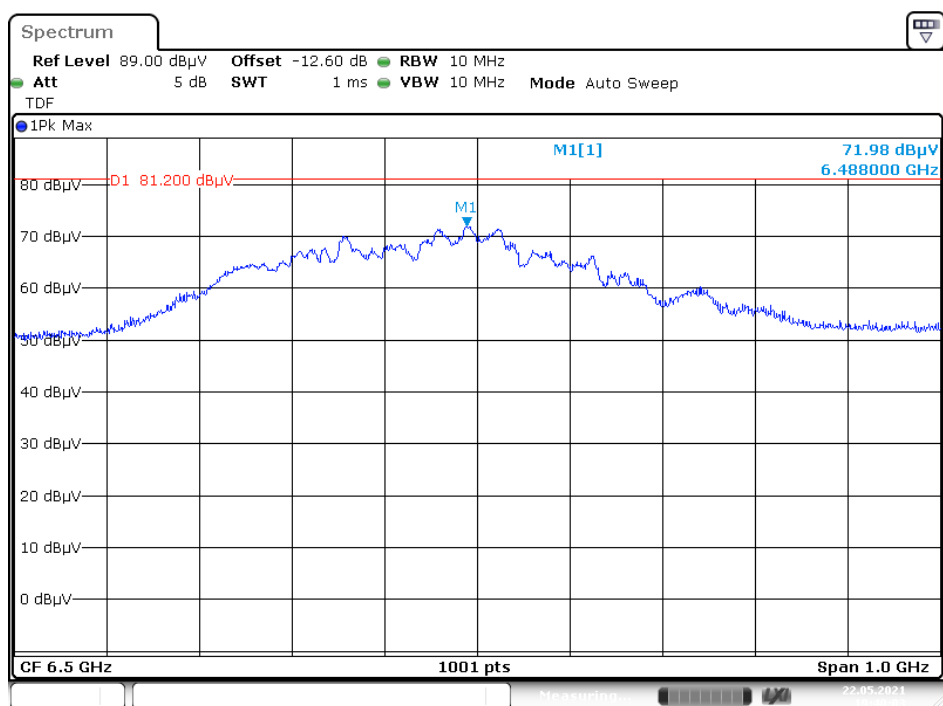
The antenna factor, cable loss and preamplifier gain have been entered into the analyzer as the transducer factor.

CH2



Date: 22.MAY.2021 19:33:23

CH5



Date: 22.MAY.2021 19:40:03

***** END OF REPORT *****