

RADIO TEST REPORT

FCC ID: 2A2VW-V8E

Product: Video Doorbell SE

Trade Mark: AOSU, DEKCO, Saato, Zoohi

Model No.: V8E2CA11

Family Model: V8E2CA12, V8E2CA13, V8E2CA14,
V8E2CA15, V8E2CA16, V8E2CA17,
V8E3CA11, V8E1CA11, V8E2DA11,
V8E2EA11, V8E12

Report No.: N26070701212E

Issue Date: Aug. 26, 2026

Prepared for

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Kong Cooperation Zone, Shenzhen, Guangdong, China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	Shenzhen Zhiling Technology Co., Ltd
Address	Room 201, Building A, No.1 Qianwan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong, China
Manufacturer's Name	Shenzhen Zhiling Technology Co., Ltd
Address	Room 201, Building A, No.1 Qianwan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong, China
Product description	
Product name	Video Doorbell SE
Trade Mark	AOSU, DEKCO, Saato, Zoohi
Model and/or type reference	V8E2CA11
Family Model	V8E2CA12,V8E2CA13,V8E2CA14,V8E2CA15, V8E2CA16,V8E2CA17 ,V8E3CA11,V8E1CA11,V8E2DA11, V8E2EA11,V8E12
Test Sample number	S240514049005 S2607070263-1#
Date of Test	May 15, 2024~ Jun 13, 2024 Jul. 07, 2026~ Aug. 26, 2026

Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 558074 D01 KDB 178919 D01	Complied

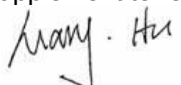
This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

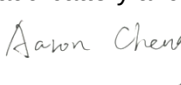
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The test results of this report relate only to the tested sample identified in this report.

Note: A Part of test data of this report are based on the original test report S24051404905002, dated by Jun 13, 2024.

This report is supplement to report S24051404905002 add battery and re-test TX RSE, PSD and power

Prepared By : 
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(Project Engineer)

Reviewed By : 
Aaron Cheng
(Supervisor)

Approved By : 
Alex Li
(Manager)

2 SUMMARY OF TEST RESULTS**FCC Part15 (15.247), Subpart C**

Standard Section	Test Item	Verdict	Remark
15.247 (b)	Peak Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.
2. All test items were verified and recorded according to the standards and without any deviation during the test.
3. This report is supplement to original report (S24051404905002, Issued Date: Jun 13, 2024 Issued By: GAI Technological Center, S.A. (APPLUS), add battery and re-test TX RSE, PSD and power

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier: CN0074

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where the expanded uncertainty U is obtained by multiplying the standard uncertainty by a coverage factor $k=2$, corresponding to a confidence level of approximately 95%.

Item	Uncertainty
Power Spectral Density, conducted	0.91dB
Radiated Spurious Emissions(1GHz ~ 18GHz)	4.9dB
Radiated Spurious Emissions(9kHz ~ 30MHz)	5.26dB
Radiated Spurious Emissions(30MHz ~ 1GHz)	5.1dB
Radiated Spurious Emissions(18GHz ~ 40GHz)	5.76dB
RF power, conducted	1.34dB
Spurious emissions, conducted	2.71dB
Occupied Bandwidth	1.00%
Radio Frequency	0.2ppm
Time	5%
Temperature	1°C
Humidity	5%

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Video Doorbell SE
Trade Mark	AOSU, DEKCO, Saato, Zoohi
FCC ID	2A2VW-V8E
Model No.	V8E2CA11
Family Model	V8E2CA12,V8E2CA13,V8E2CA14,V8E2CA15,V8E2CA16,V8E2CA17, V8E3CA11,V8E1CA11,V8E2DA11,V8E2EA11,V8E12
Model Difference	All models have the same circuit and RF module, except battery rating of model V8E12 is different. Model V8E12 battery rating is DC 3.59V 5400mAh 19.386Wh, Wi-Fi module equipped with a shielding cover, missing a flash chip The remaining battery rating are DC 3.7V, 4600mAh, 17.02Wh, Wi-Fi module equipped without a shielding cover, has two flash chip
Operating Frequency	BLE 1M: 2402~2480 MHz BLE 2M: 2402~2480 MHz
Modulation	GFSK
Number of Channels	Please refer channel list
Antenna Type	built-in steel plate antenna
Antenna Gain	2.91 dBi
Adapter	N/A
Battery	Battery1 Rating: DC 3.7V, 4600mAh, 17.02Wh Battery2 Rating: DC 3.59V, 5400mAh, 19.386Wh
Power supply	DC 3.7V from battery1 or DC 3.59V from battery2 or DC 5V from USB Port.
HW Version	N/A
SW Version	N/A

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

Revision History

[illegible]

5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps/2Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

BLE(1M)/ BLE(2M)	
Channel	Frequency (MHz)
00	2402
01	2404
.....	
19	2440
.....	
38	2478
39	2480

Note: $f_c = 2402\text{MHz} + k \times 2\text{MHz}$ $k=0$ to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases	
Test Item	Data Rate/ Modulation
AC Conducted Emission	Mode 1: normal link mode
Radiated Test Cases	Mode 1: normal link mode
	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/ GFSK Tx Ch01_2402MHz_2Mbps
	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/ GFSK Tx Ch38_2480MHz_2Mbps
Conducted Test Cases	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/ GFSK Tx Ch01_2402MHz_2Mbps
	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/ GFSK Tx Ch38_2480MHz_2Mbps

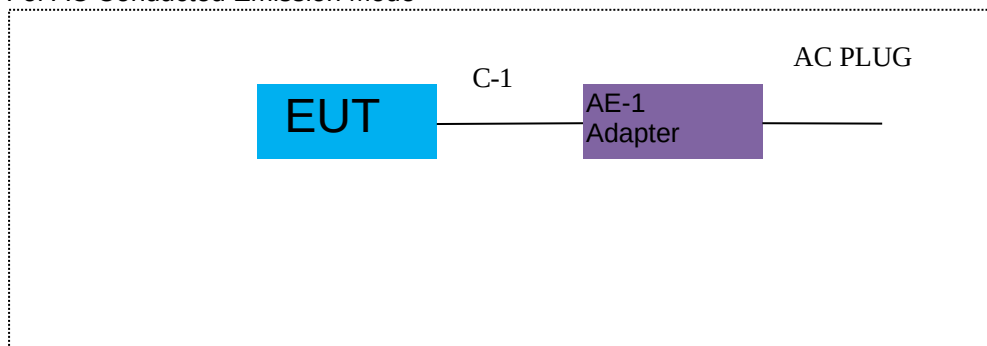
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. AC power line Conducted Emission was tested under maximum output power.
3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
4. EUT built-in battery-powered, the battery is fully-charged.

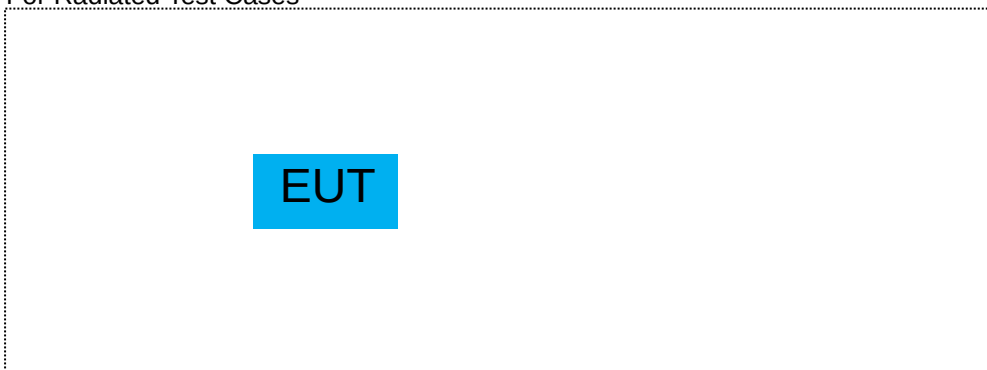
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

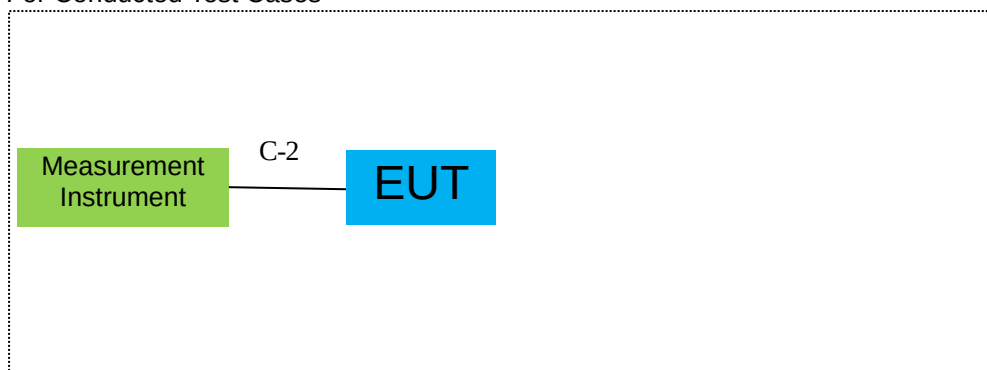
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Type-C Cable	NO	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2026.04.15	2027.04.14	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2026.04.08	2027.04.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2026.04.08	2027.04.07	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2816	2024.05.12	2027.05.11	3 year
6	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2027.05.12	2027.05.11	3 year
7	Amplifier	EMC	EMC051835 SE	980246	2026.04.08	2027.04.07	1 year
8	Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
9	Power Meter	DARE	RPR3006W	15I00041SN O84	2026.04.08	2027.04.07	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2024.05.06	2027.05.05	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2024.05.06	2027.05.05	3 year
12	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2024.05.06	2027.05.05	3 year
13	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list



7 TEST REQUIREMENTS

7.1 RADIATED SPURIOUS EMISSION

7.1.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

7.1.2 Conformance Limit

According to FCC Part 15.247(d): 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)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	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			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

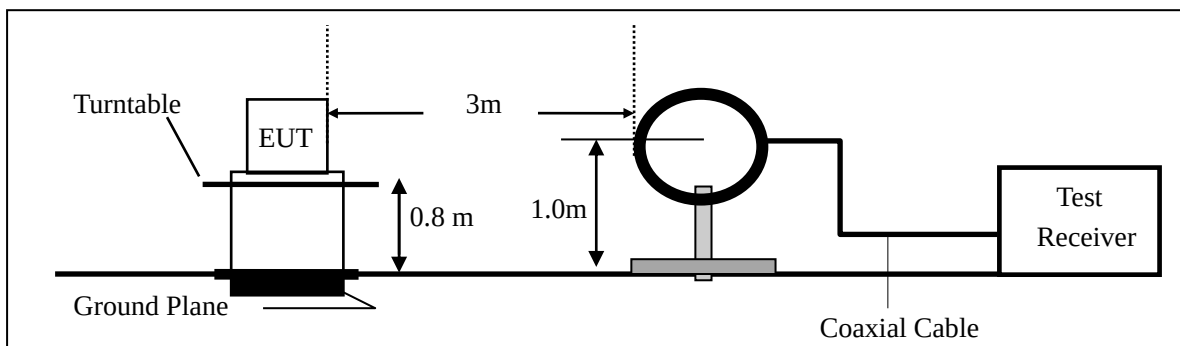
3. For Frequency 9kHz~30MHz: Distance extrapolation factor = $40\log(\text{Specific distance}/\text{test distance})(\text{dB})$; Limit line = Specific limits(dBuV) + distance extrapolation factor.
For Frequency above 30MHz: Distance extrapolation factor = $20\log(\text{Specific distance}/\text{test distance})(\text{dB})$; Limit line = Specific limits(dBuV) + distance extrapolation factor.

7.1.3 Measuring Instruments

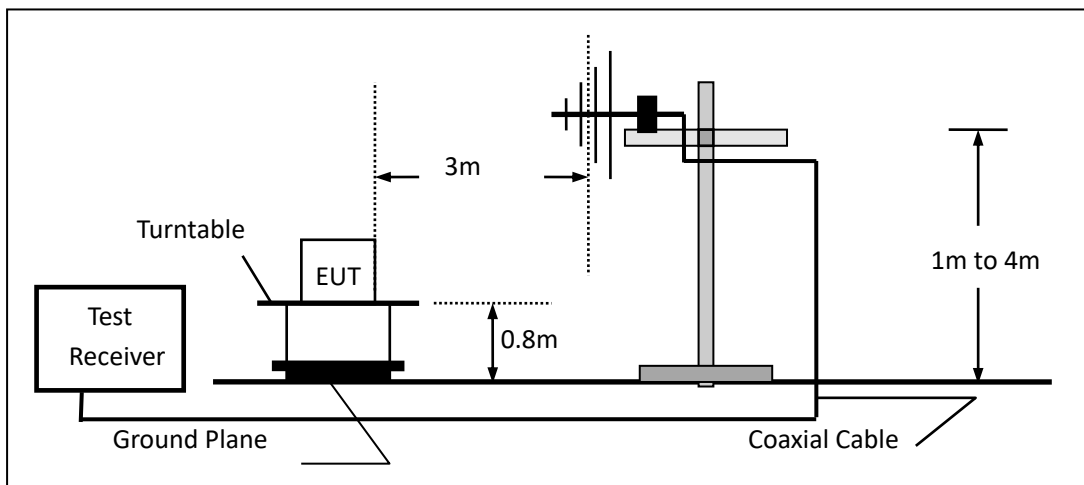
The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration

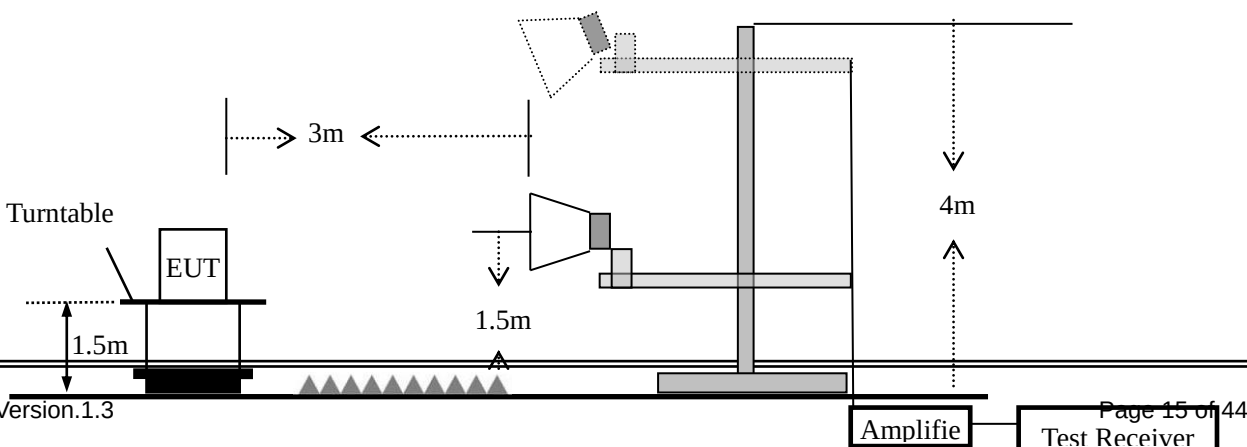
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



7.1.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 . The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 and CAN/CSA-CEI/IEC CISPR 22. This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.1.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Video Doorbell SE	Model Name :	V8E2CA11
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Mary Hu

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

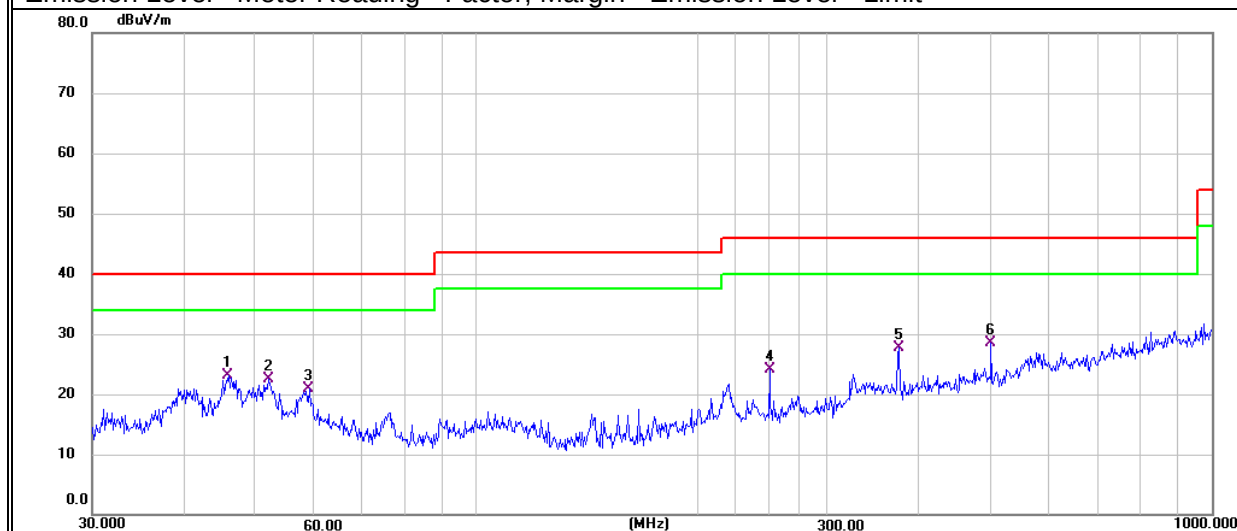
■ Spurious Emission below 1GHz (30MHz to 1GHz)

EUT:	Video Doorbell SE	Model Name :	V8E12
Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 3
Test Voltage :	DC 3.59V- Battery DC 3.59V 5400mAh 19.386Wh.		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	46.0160	3.63	19.55	23.18	40.00	-16.82	QP
V	52.2080	2.64	19.93	22.57	40.00	-17.43	QP
V	59.2320	1.97	19.02	20.99	40.00	-19.01	QP
V	250.3010	4.94	19.08	24.02	46.00	-21.98	QP
V	375.9390	5.76	21.86	27.62	46.00	-18.38	QP
V	501.1790	4.48	24.08	28.56	46.00	-17.44	QP

Remark

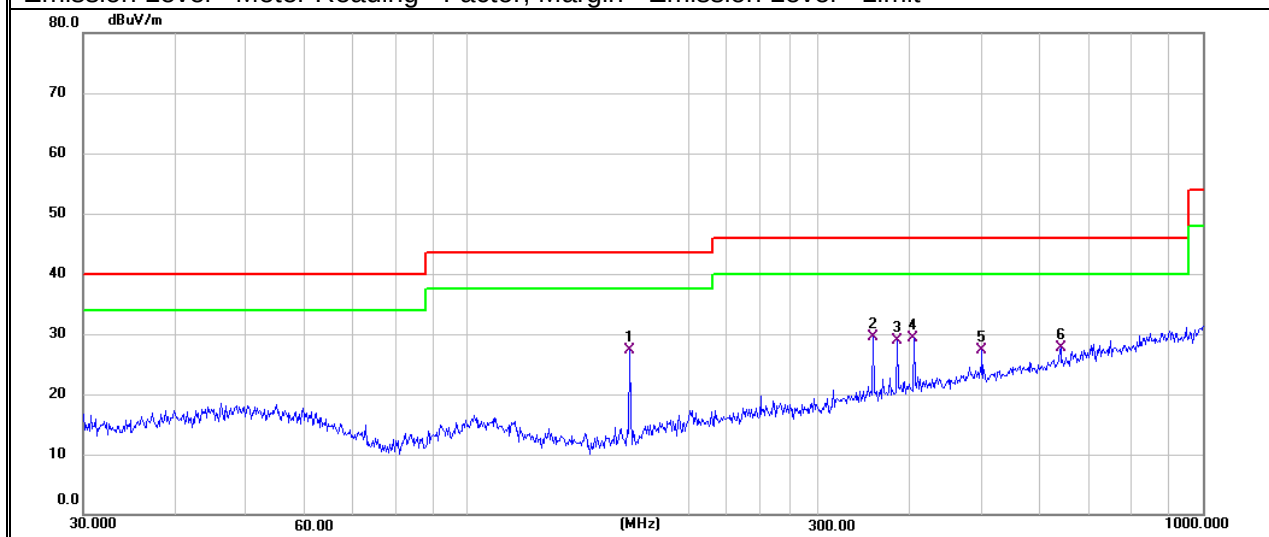
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	166.0680	12.43	14.94	27.37	43.50	-16.13	QP
H	356.6760	8.28	21.29	29.57	46.00	-16.43	QP
H	383.9320	7.11	21.87	28.98	46.00	-17.02	QP
H	404.6660	6.67	22.67	29.34	46.00	-16.66	QP
H	501.1790	3.31	24.08	27.39	46.00	-18.61	QP
H	640.6110	1.46	26.15	27.61	46.00	-18.39	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



■ Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	Video Doorbell SE	Model Name :	V8E12
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

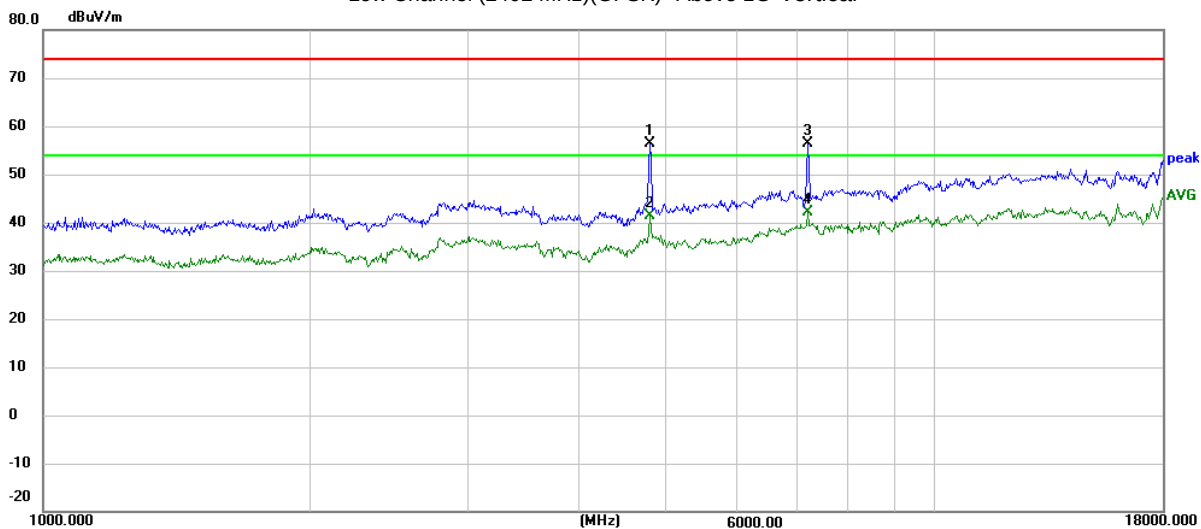
TEST BY POWER DC 3.59V- Battery DC 3.59V 5400mAh 19.386Wh.

Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Comment
Low Channel (2412 MHz)(GFSK)--Above 1G							
4803.750	63.39	-7.03	56.36	74.00	-17.64	Pk	Vertical
4803.750	48.48	-7.03	41.45	54.00	-12.55	AV	Vertical
7206.700	58.48	-2.08	56.40	74.00	-17.60	Pk	Vertical
7206.700	44.14	-2.08	42.06	54.00	-11.94	AV	Vertical
4804.175	64.77	-7.02	57.75	74.00	-16.25	Pk	Horizontal
4804.175	51.03	-7.02	44.01	54.00	-9.99	AV	Horizontal
7206.700	57.64	-2.08	55.56	74.00	-18.44	Pk	Horizontal
7206.700	46.86	-2.08	44.78	54.00	-9.22	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)--Above 1G							
4881.525	62.70	-7.25	55.45	74.00	-18.55	Pk	Vertical
4881.525	47.81	-7.25	40.56	54.00	-13.44	AV	Vertical
7332.500	57.28	-1.97	55.31	74.00	-18.69	Pk	Vertical
7332.500	43.81	-1.97	41.84	54.00	-12.16	AV	Vertical
4879.825	62.07	-7.23	54.84	74.00	-19.16	Pk	Horizontal
4879.825	47.84	-7.23	40.61	54.00	-13.39	AV	Horizontal
7319.750	59.71	-2.11	57.60	74.00	-16.40	Pk	Horizontal
7319.750	44.13	-2.11	42.02	54.00	-11.98	AV	Horizontal
High Channel (2480 MHz)(GFSK)--Above 1G							
4960.575	62.09	-6.07	56.02	74.00	-17.98	Pk	Vertical
4960.575	46.83	-6.07	40.76	54.00	-13.24	AV	Vertical
7429.825	59.04	-2.64	56.40	74.00	-17.60	Pk	Vertical
7429.825	45.91	-2.64	43.27	54.00	-10.73	AV	Vertical
4960.575	61.99	-6.07	55.92	74.00	-18.08	Pk	Horizontal
4960.575	46.03	-6.07	39.96	54.00	-14.04	AV	Horizontal
7414.100	59.33	-2.82	56.51	74.00	-17.49	Pk	Horizontal
7414.100	45.86	-2.82	43.04	54.00	-10.96	AV	Horizontal

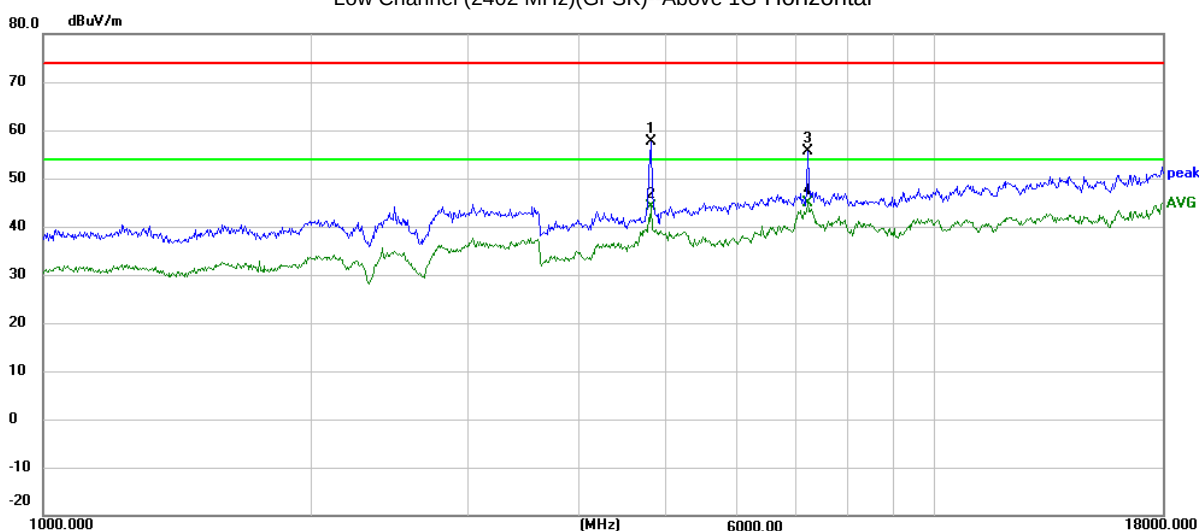
Note:

- (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
- (2) All other emissions more than 20dB below the limit.
- (3) Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst

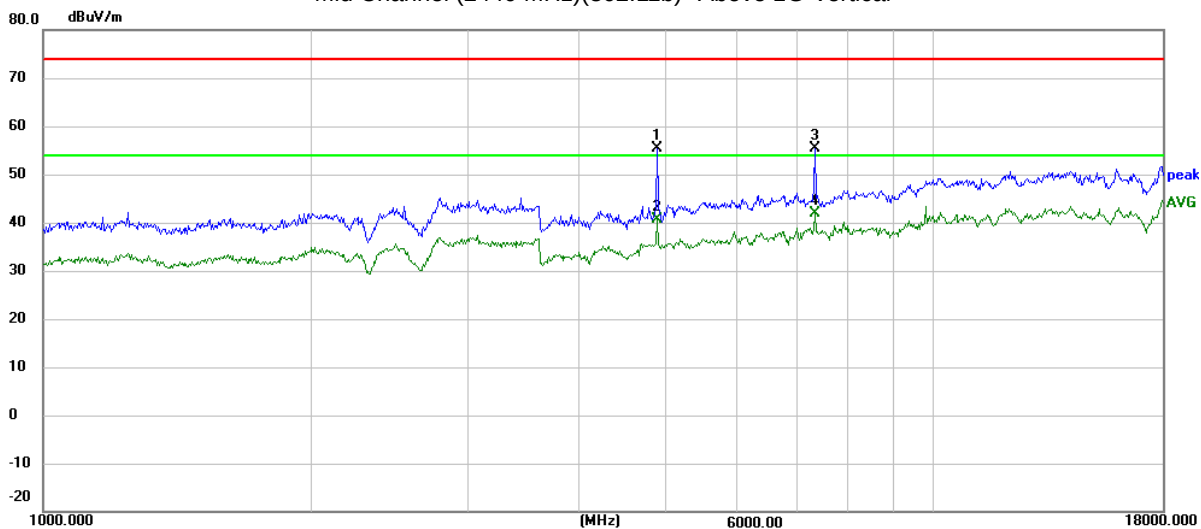
Low Channel (2402 MHz)(GFSK)--Above 1G Vertical



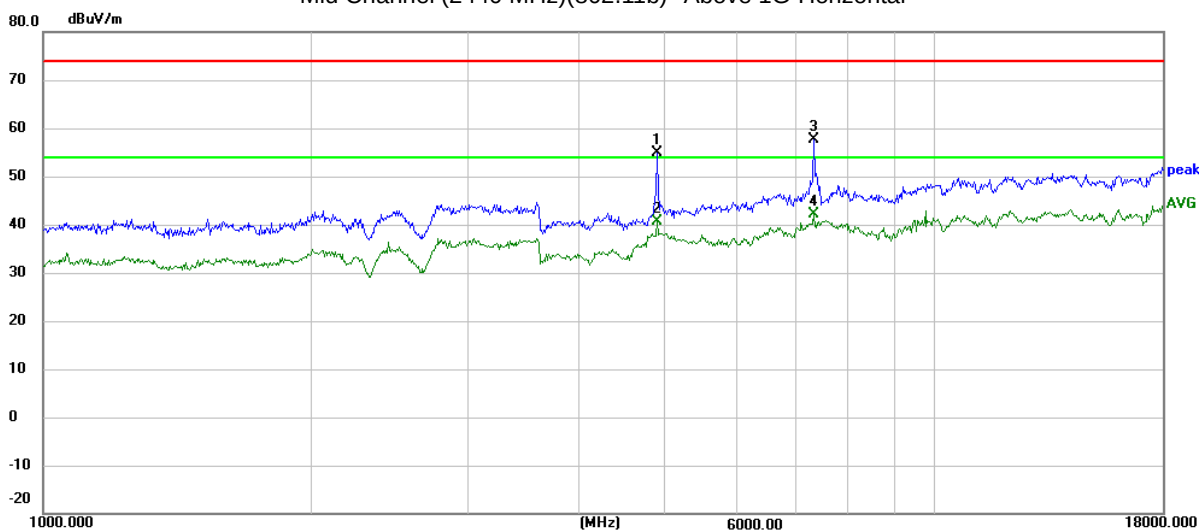
Low Channel (2402 MHz)(GFSK)--Above 1G Horizontal



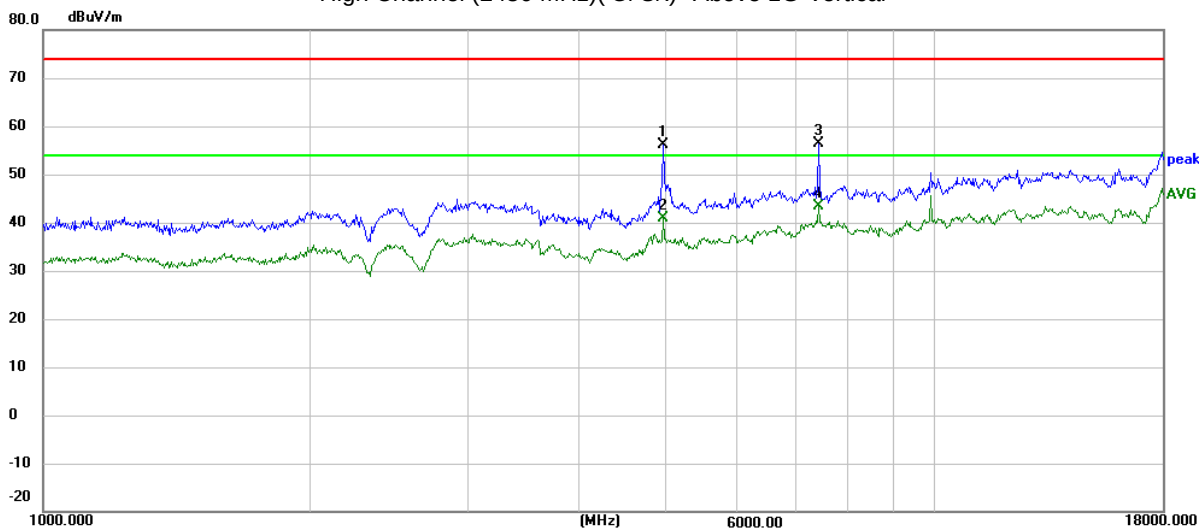
Mid Channel (2440 MHz)(802.11b)--Above 1G Vertical



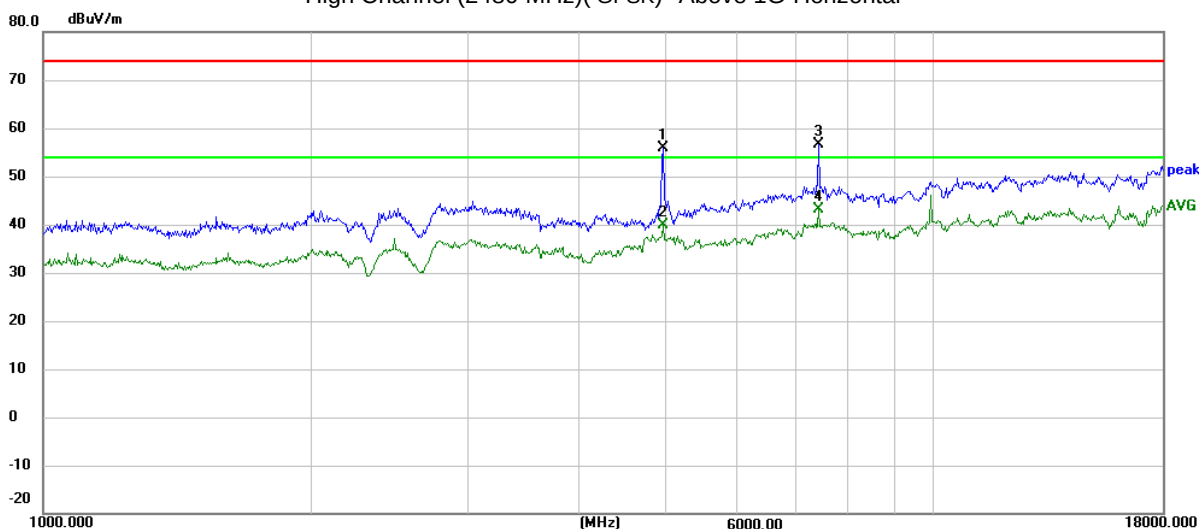
Mid Channel (2440 MHz)(802.11b)--Above 1G Horizontal



High Channel (2480 MHz)(GFSK)--Above 1G Vertical



High Channel (2480 MHz)(GFSK)--Above 1G Horizontal



7.2 PEAK OUTPUT POWER

7.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Setup

Please refer to Section 6.1 of this test report.

7.2.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set the RBW $\geq$ DTS bandwidth.

Set VBW = 3*RBW.

Set the span $\geq$ 3*RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

7.2.6 Test Results

EUT:	Video Doorbell SE	Model Name :	V8E2CA11
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

7.3 POWER SPECTRAL DENSITY

7.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5*DTS bandwidth.

c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

d) Set the VBW $\geq 3 \text{ RBW}$.

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.3.6 Test Results

EUT:	Video Doorbell SE	Model Name :	V8E2CA11
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

7.4 SPURIOUS RF CONDUCTED EMISSIONS

7.4.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.4.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.3 Test Setup

Please refer to Section 6.1 of this test report.

7.4.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.4.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

Test data reference attachment.

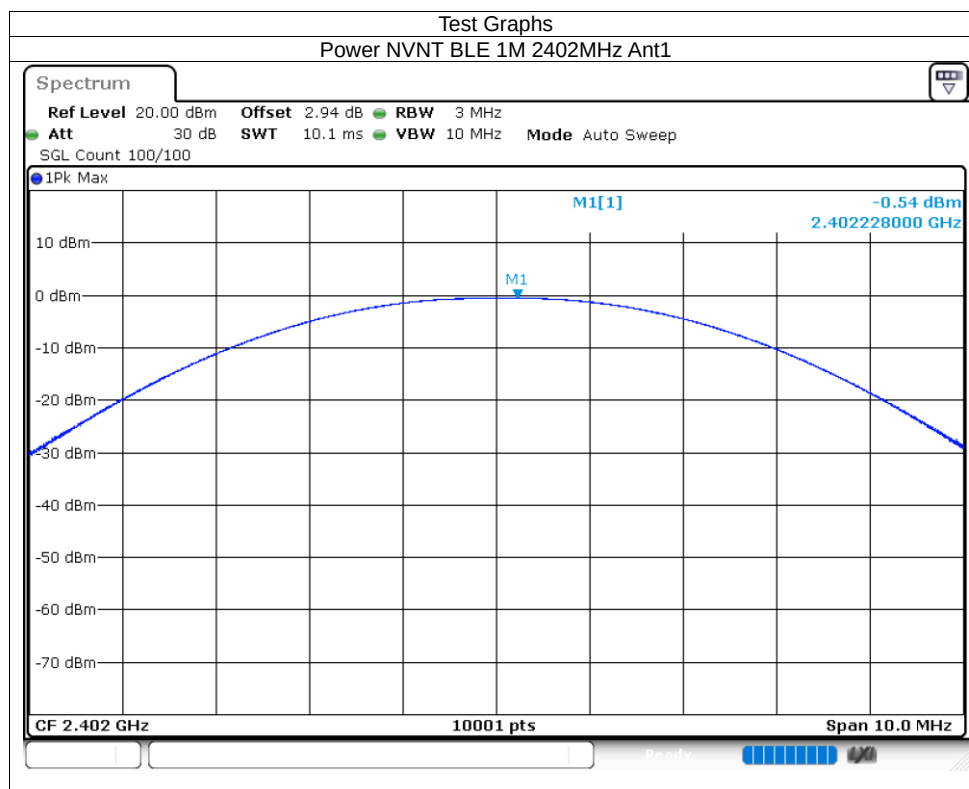


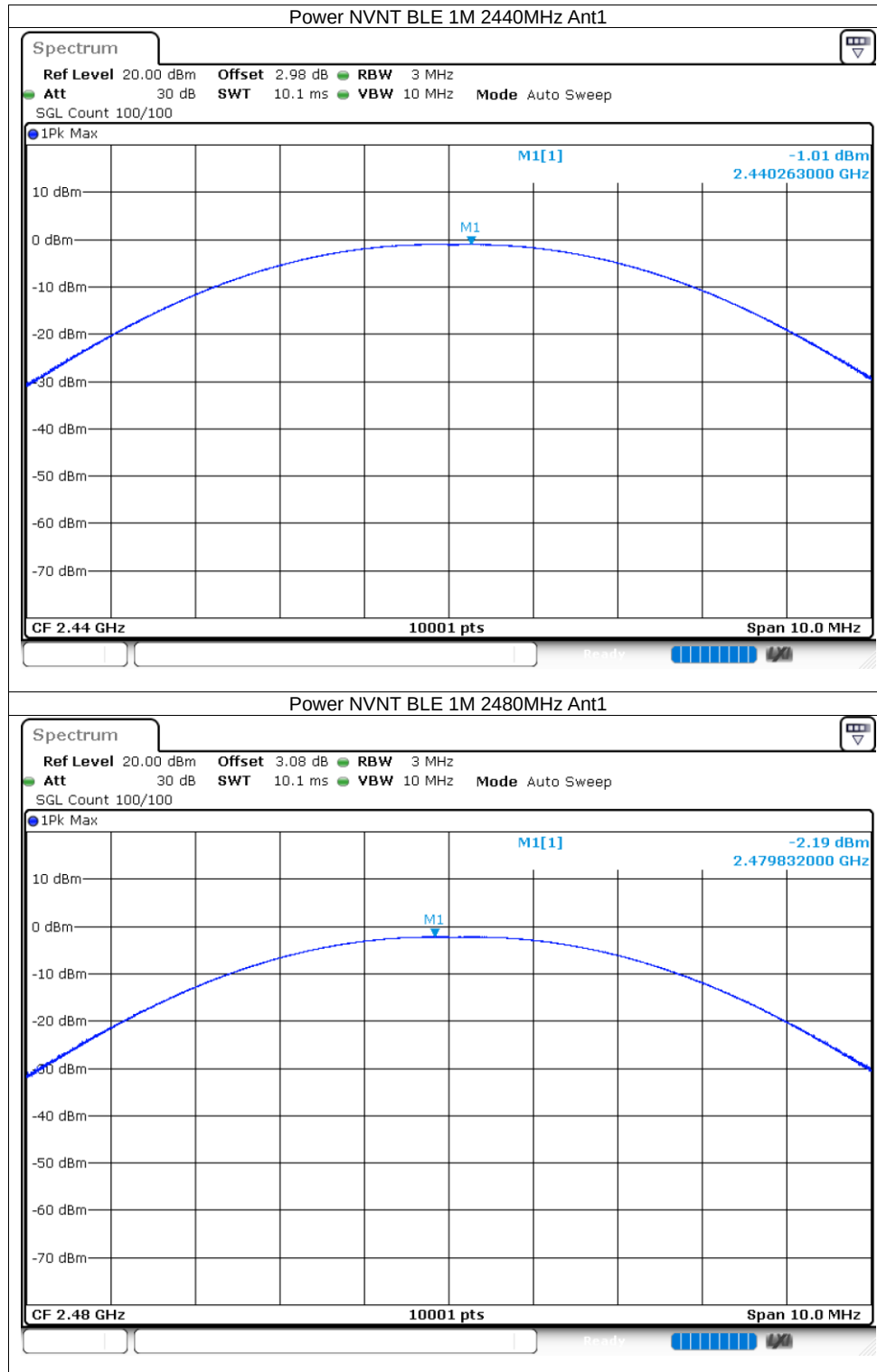
8 TEST RESULTS

8.1 BLE 1M TEST BY POWER DC 3.59V- BATTERY DC 3.59V 5400MAH 19.386WH.

8.1.1 Maximum Conducted Output Power

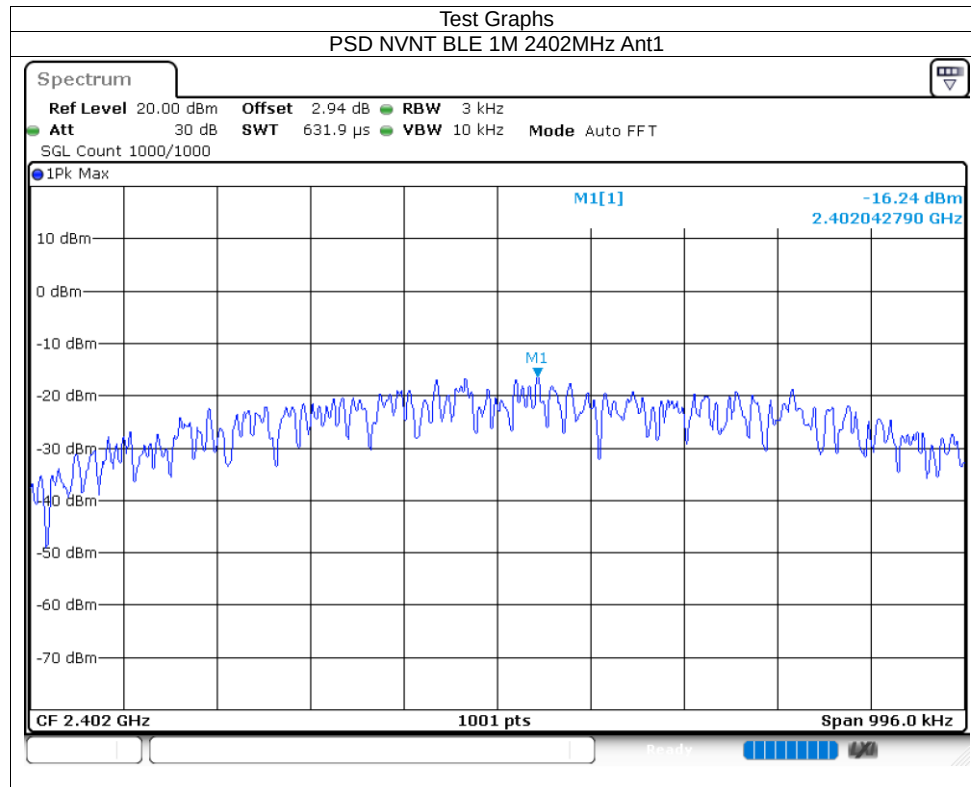
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.54	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.01	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.19	30	Pass

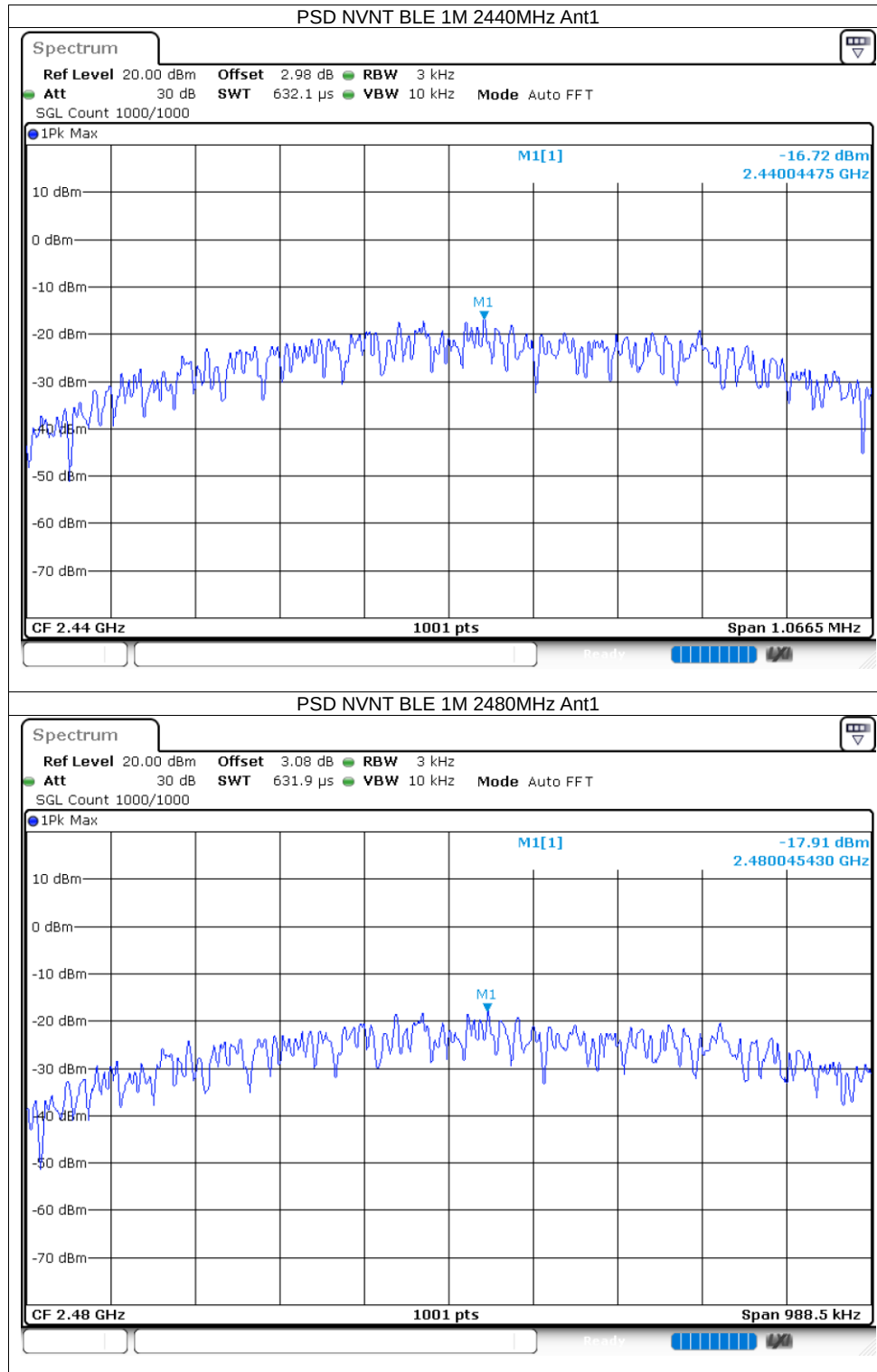




8.1.2 Maximum Power Spectral Density Level

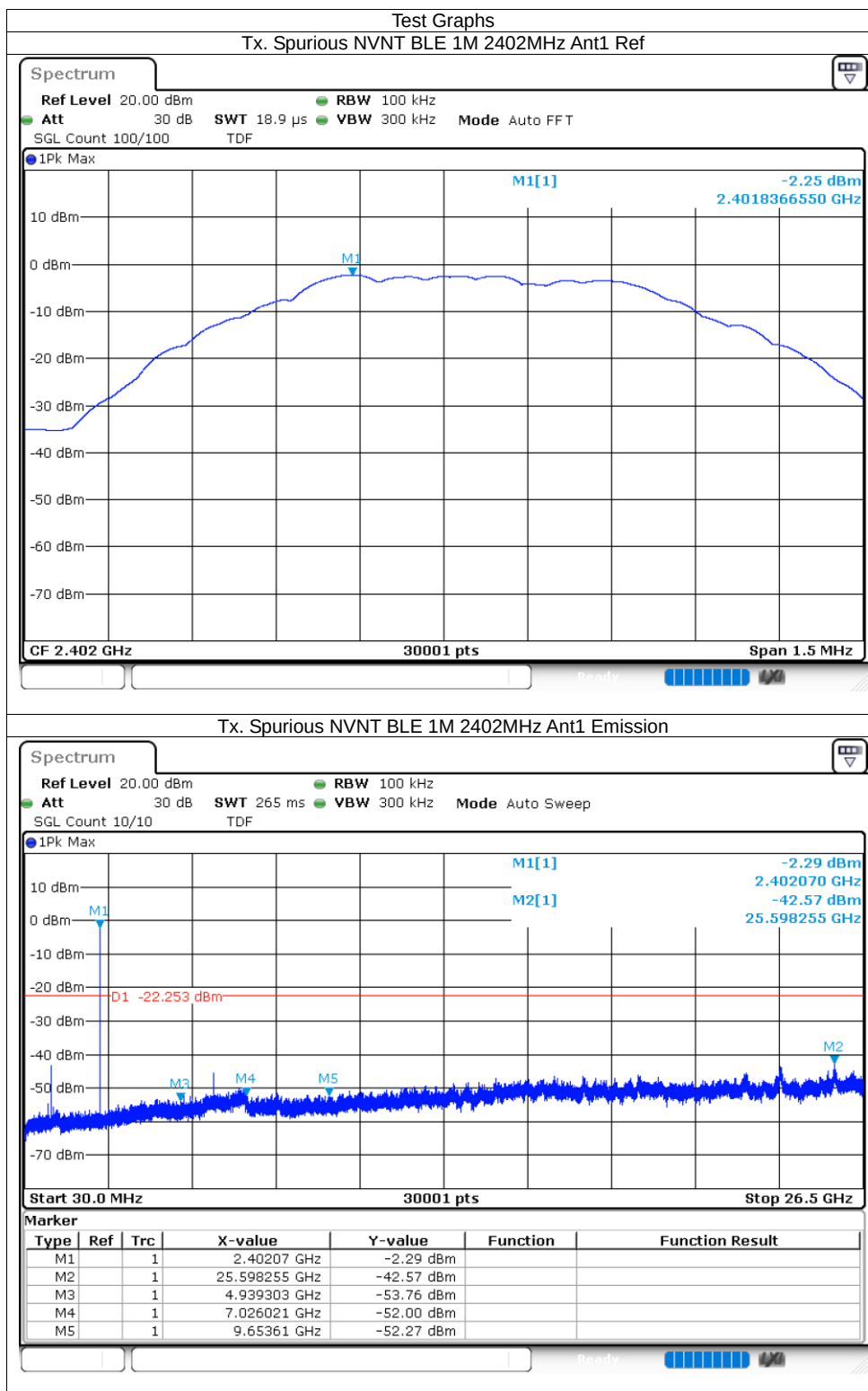
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.24	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.72	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.91	8	Pass

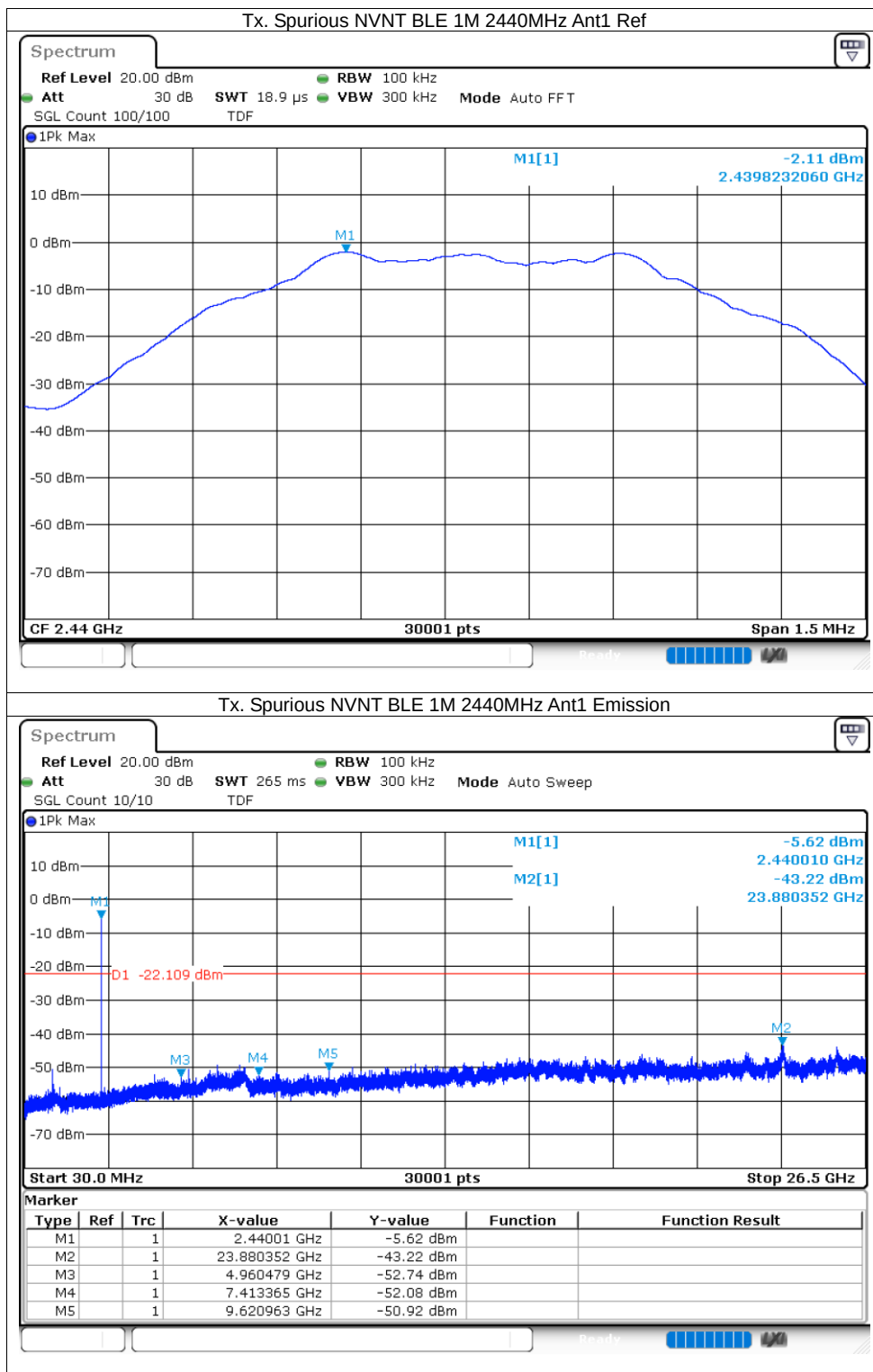


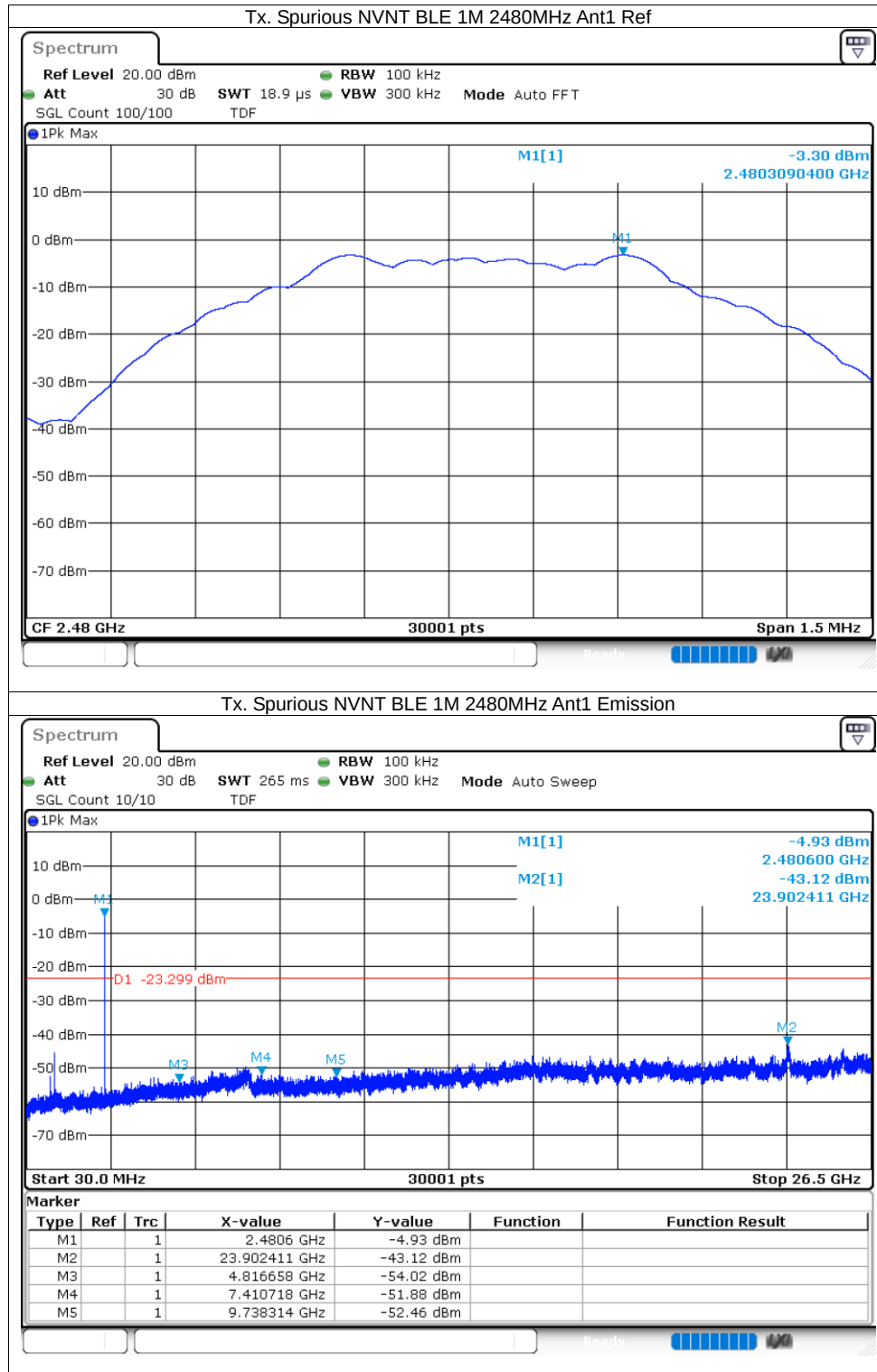


8.1.3 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-40.32	-20	Pass
NVNT	BLE 1M	2440	Ant1	-41.11	-20	Pass
NVNT	BLE 1M	2480	Ant1	-39.81	-20	Pass



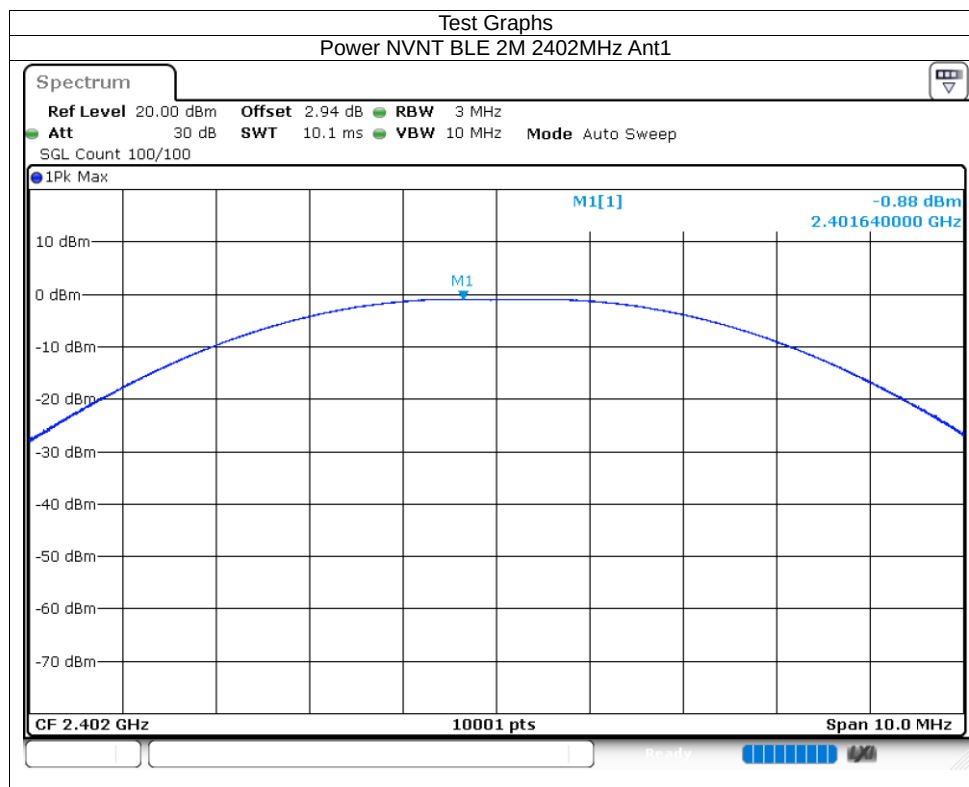


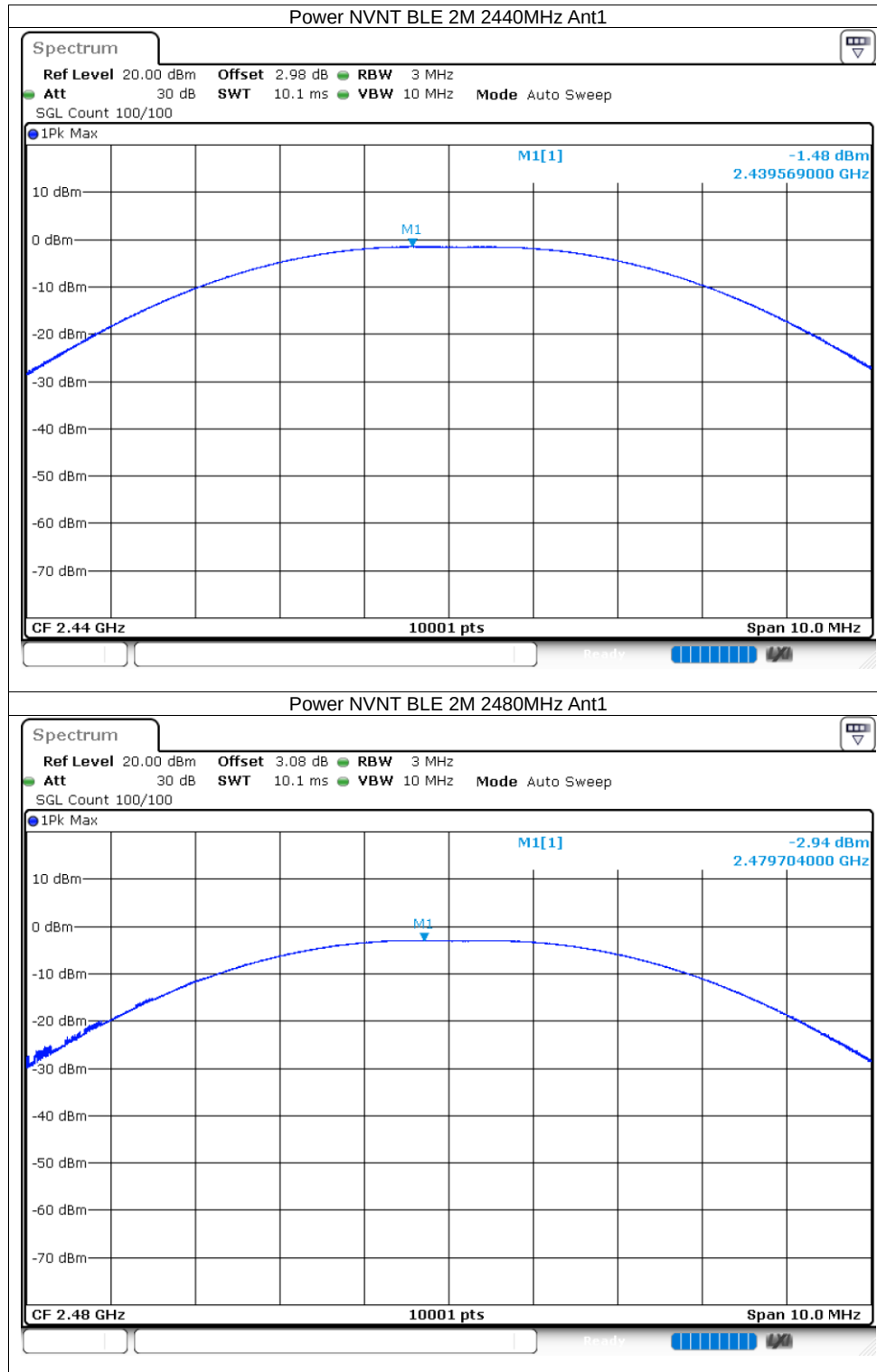


8.2 BLE 2M TEST BY POWER DC 3.59V- BATTERY DC 3.59V 5400MAH 19.386WH.

8.2.1 Maximum Conducted Output Power

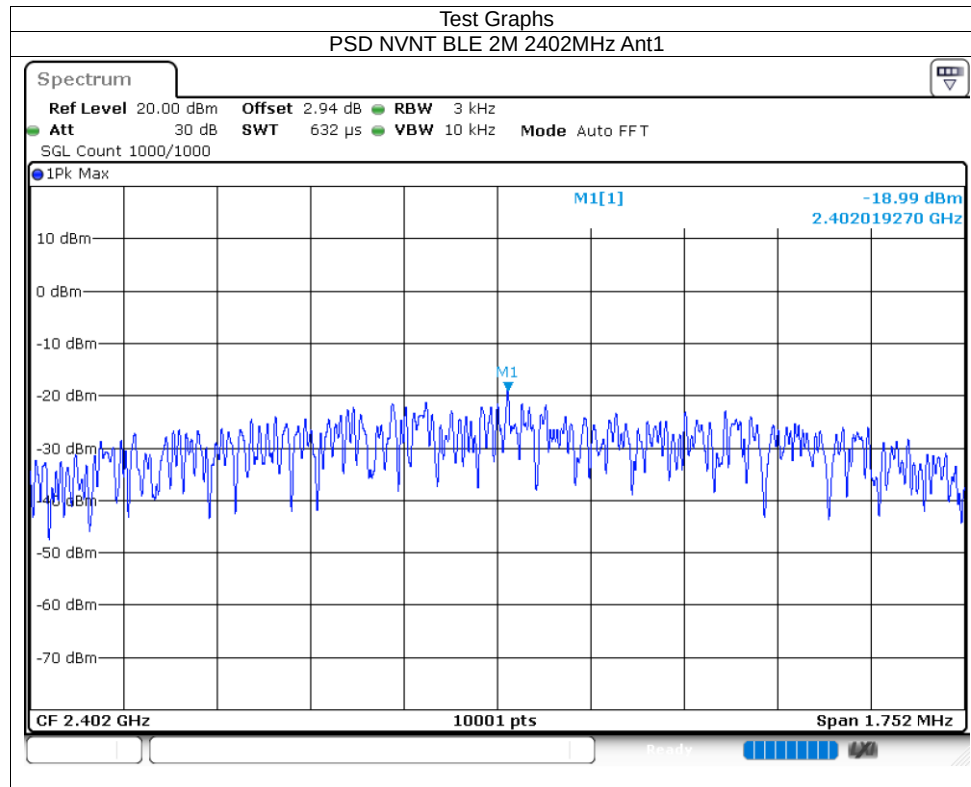
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-0.88	30	Pass
NVNT	BLE 2M	2440	Ant1	-1.48	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.94	30	Pass

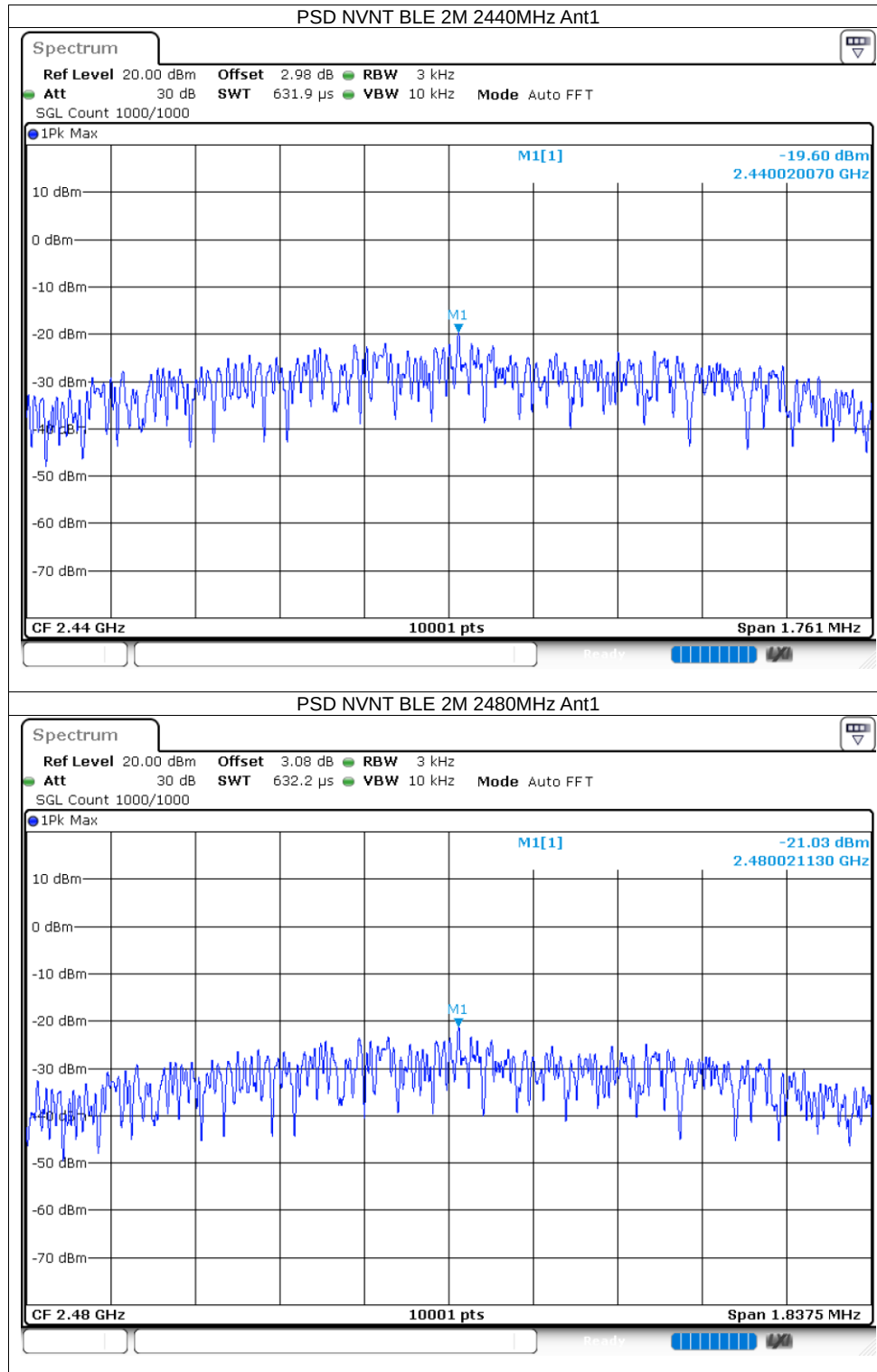




8.2.2 Maximum Power Spectral Density Level

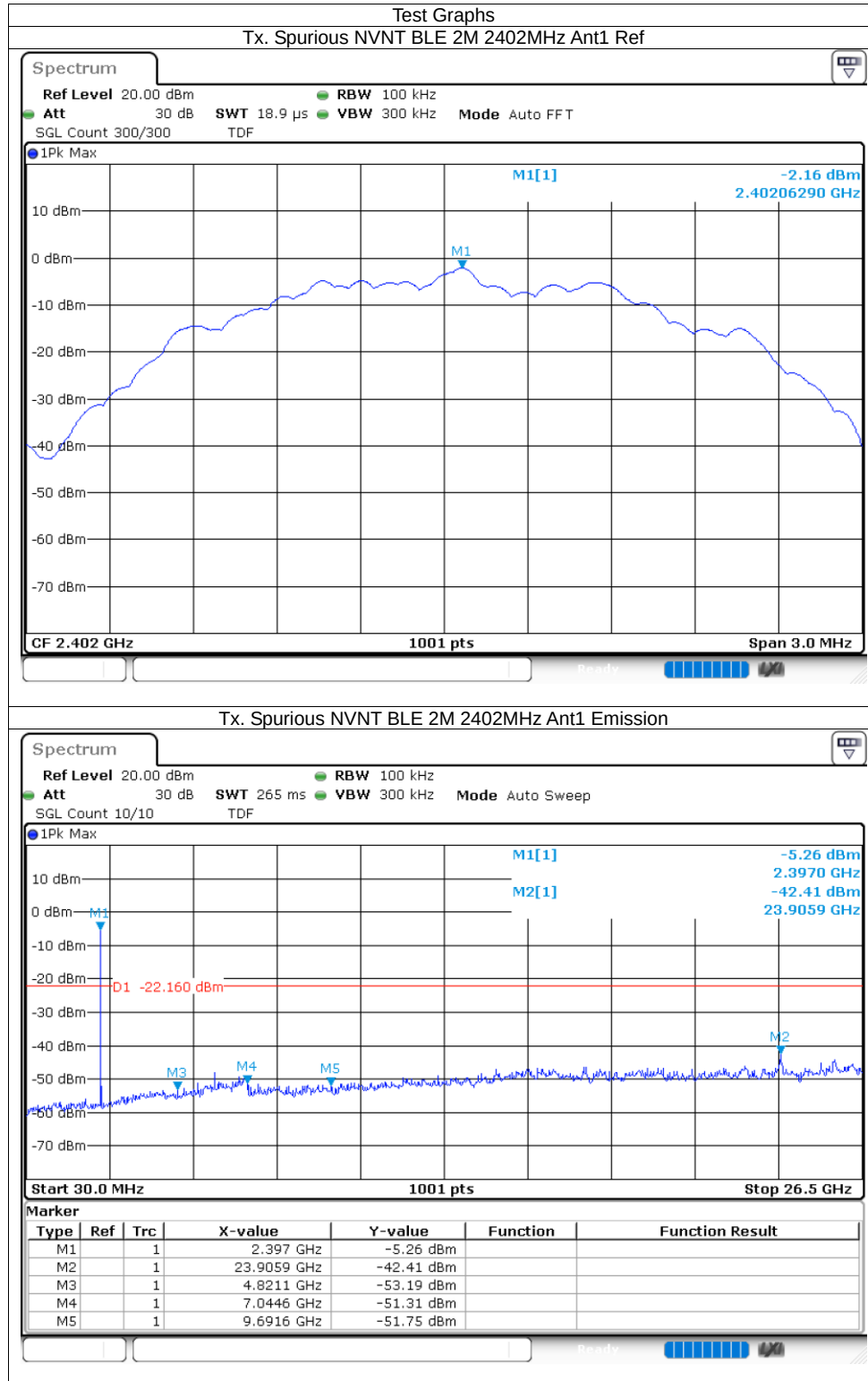
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 2M	2402	Ant1	-18.99	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.6	8	Pass
NVNT	BLE 2M	2480	Ant1	-21.03	8	Pass

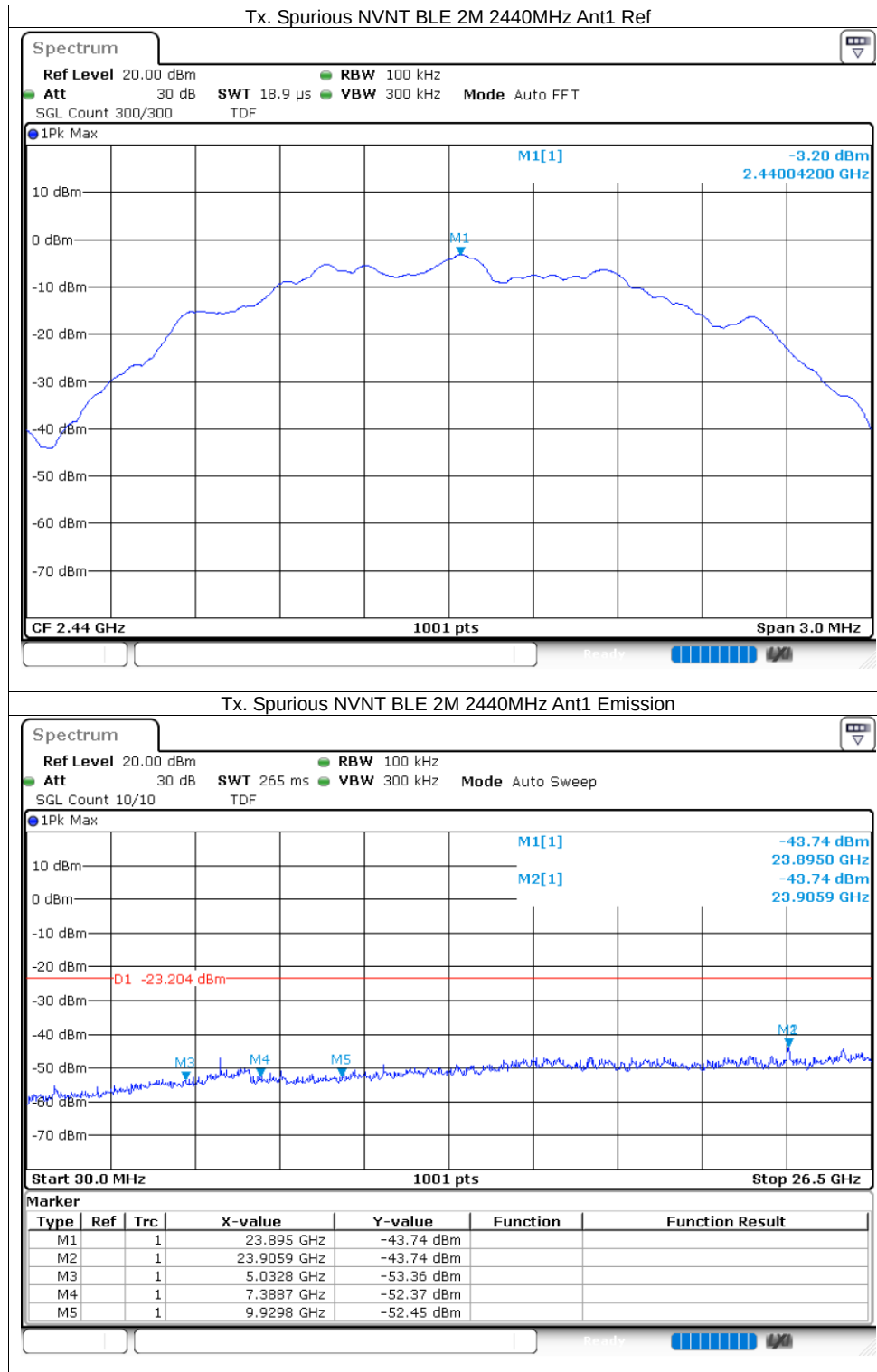


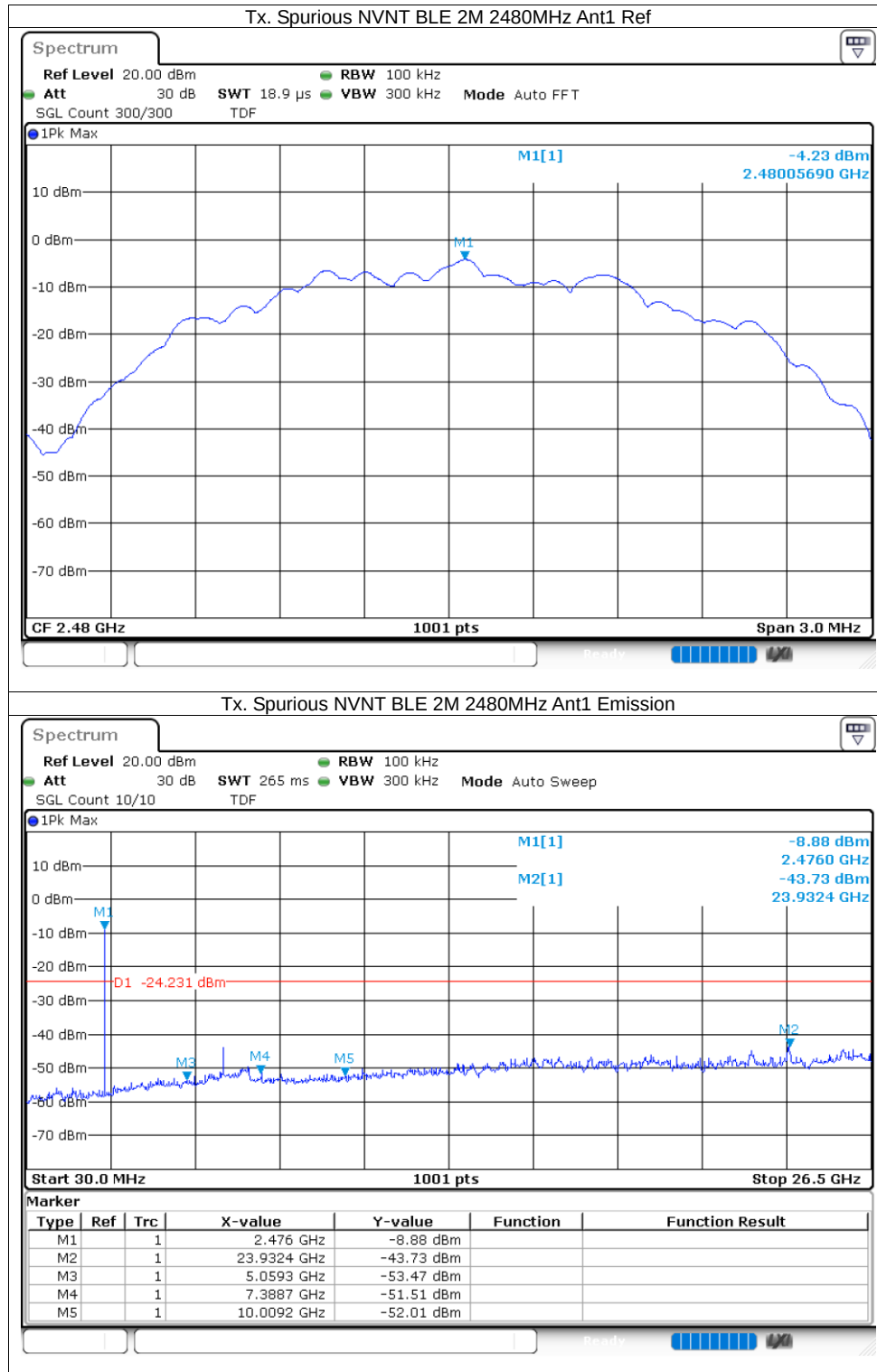


8.2.3 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-40.24	-20	Pass
NVNT	BLE 2M	2440	Ant1	-40.53	-20	Pass
NVNT	BLE 2M	2480	Ant1	-39.5	-20	Pass







END OF REPORT