



■ Report No.: DDT-R21030810-3E01

■ Issued Date: Aug. 12, 2021

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	Jovision Technology Co., Ltd.
Address	:	Floor 12, Building No.3, Aosheng Square, No. 1166 Xinluo Street, Jinan, Shandong, China
Equipment under Test	:	Network Camera
Model No.	:	JVS-N95-X3, IP-SPS03, IP-B20, IP-B21, IP-BS22, IP-B52, IP-DS22, IP-D52, IP-B2W, IP-D2W, IP-PT2W, AHD-D01, AHD-H01, JVS-N955-HY, JVS-N935SL-HY, JVS-N945-HY, JVS-N925-HY, JVS-N816-YWS, JVS-N510-YWS, JVS-N513-K1-PE, JVS-N933-K1-PE, JVS-N513-K1, JVS-N933-K1, JVS-N43-Z25, JVS-N83-Z25, JVS-N3122SL, JVS-N5022, JVS-N916-KDL, JVS-N916-KDL-PE, JVS-N913-K1, JVS-N913-K1-PE, JVS-N910-LYT, JVS-N510-LYT, JVS-N510-DS-PE, JVS-N310-DS-PE, JVS-H930, JVS-H930E, JVS-HD301C
Trade Mark	:	/
FCC ID	:	2AEW9JVS-N95-X3
Manufacturer	:	Jovision Technology Co., Ltd.
Address	:	Floor 12, Building No.3, Aosheng Square, No. 1166 Xinluo Street, Jinan, Shandong, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

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REPORT

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Test Report Declare

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Trade Mark	:	/
Manufacturer	:	Jovision Technology Co., Ltd.
Address	:	Floor 12, Building No.3, Aosheng Square, No. 1166 Xinluo Street, Jinan, Shandong, China

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C.

Test procedure used: ANSI C63.10:2013, 558074 D01 15.247 Meas Guidance v05r02

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-R21030810-3E01		
Date of Receipt:	May 12, 2021	Date of Test:	May 12, 2021 ~ Aug. 12, 2021

Prepared By:

Sam Li

Sam Li/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Aug. 12, 2021	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6 dB Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2)	Pass
Conducted Output Power	FCC 15.247 (b) (3)	Pass
Power Spectral Density	FCC 15.247 (e)	Pass [®]
Band-edge and Spurious Emissions (Conducted)	FCC 15.247 (d)	Pass
Radiated Spurious Emissions	FCC 15.247 (d) FCC 15.209 FCC 15.205 [®]	Pass
Radiated Band Edge Compliance	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Power Line Conducted Emission	FCC 15.207	Pass
Antenna requirement	FCC 15.203	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	: Network Camera
Model Number	: JVS-N95-X3, IP-SPS03, IP-B20, IP-B21, IP-BS22, IP-B52, IP-DS22, IP-D52, IP-B2W, IP-D2W, IP-PT2W, AHD-D01, AHD-H01, JVS-N955-HY, JVS-N935SL-HY, JVS-N945-HY, JVS-N925-HY, JVS-N816-YWS, JVS-N510-YWS, JVS-N513-K1-PE, JVS-N933-K1-PE, JVS-N513-K1, JVS-N933-K1, JVS-N43-Z25, JVS-N83-Z25, JVS-N3122SL, JVS-N5022, JVS-N916-KDL, JVS-N916-KDL-PE, JVS-N913-K1, JVS-N913-K1-PE, JVS-N910-LYT, JVS-N510-LYT, JVS-N510-DS-PE, JVS-N310-DS-PE, JVS-H930, JVS-H930E, JVS-HD301C
Difference of models	: All models are identical except the model name, therefore JVS-N95-X3 was tested and recorded in this report.
EUT function description	: Please reference user manual of this device
Power Supply	: DC 12V2A powered by external adapter
Radio Technology	: IEEE 802.11b/g/n
Operation frequency	: IEEE 802.11b: 2412 MHz - 2462 MHz IEEE 802.11g: 2412 MHz - 2462 MHz IEEE 802.11n HT20: 2412 MHz - 2462 MHz IEEE 802.11n HT40: 2422 MHz - 2452 MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 Mbps IEEE 802.11n HT40: up to 150 Mbps
Antenna Type	: Dedicated antenna, maximum PK gain: 2.5 dBi
Serial Number	: N/A

Note: EUT is the abbreviation of equipment under test.

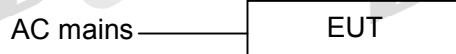
Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	Other
Notebook	Lenovo Beijing Co. Ltd.	ThinkPad	FCC/CE	TP00015A
AC ADAPTER	ShenZhen SOY Technology Co., Ltd.	KT12W050150B SO	N/A	INPUT: 100-240V~50/60Hz, 0.6A OUTPUT: DC 12V2A 7.5 W Unshielded, Length:1.00m

2.4. Block diagram of EUT configuration for test

Test software: PUTTY

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11b	13	1	LCH: CH1	2412
	13	1	MCH: CH6	2437
	13	1	HCH: CH11	2462
IEEE 802.11g	11	6	LCH: CH1	2412
	11	6	MCH: CH6	2437
	11	6	HCH: CH11	2462
IEEE 802.11n HT20	11	MCS0	LCH: CH1	2412
	11	MCS0	MCH: CH6	2437
	11	MCS0	HCH: CH11	2462
IEEE 802.11n HT40	9	MCS0	LCH: CH3	2422
	9	MCS0	MCH: CH6	2437
	9	MCS0	HCH: CH9	2452

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No deviation

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,
Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.86 dB (10 MHz $\leq$ f < 3.6 GHz); 1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz $\leq$ f < 3.6 GHz); 1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted Spurious Emissions	0.86 dB (10 MHz $\leq$ f < 3.6 GHz); 1.40 dB (3.6 GHz $\leq$ f < 8 GHz) 1.66 dB (8 GHz $\leq$ f < 22 GHz)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H) 4.10 dB (1 - 6 GHz)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	4.40 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.32 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

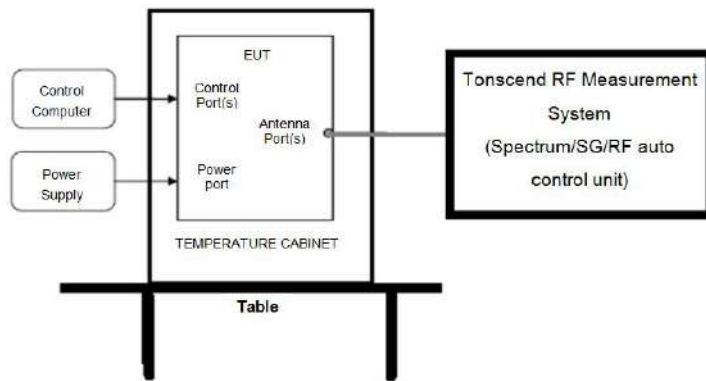
3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒ RF Connected Test (Tonscend RF Measurement System 1#)					
Spectrum analyzer	R&S	FSU26	200071	Sep. 25, 2020	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Sep. 24, 2020	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 01, 2021	1 Year
Power Sensor	Agilent	U2021XA	MY55150010	Jun. 01, 2021	1 Year
Power Sensor	Agilent	U2021XA	MY55150011	Jun. 01, 2021	1 Year
RF Cable	Micable	C10-01-01-1	100309	Sep. 28, 2020	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-15 0L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A
☐ RF Connected Test (Tonscend RF Measurement System 2#)					
Spectrum analyzer	R&S	FSU26	101472	Jun. 01, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Jan. 19, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	Jun. 01, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	DDT-ZC01449	Jun. 01, 2021	1 Year
RF Cable	Micable	C10-01-01-1	100309	Sep. 28, 2020	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-15 0L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A
☐ Radiation 1#chamber					
EMI Test Receiver	R&S	ESU8	100316	Sep. 24, 2020	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 13, 2020	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Nov. 18, 2020	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Nov. 13, 2020	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 07, 2021	1 Year
Pre-amplifier	A.H.	PAM-0118	360	Sep. 28, 2020	1 Year
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Sep. 24, 2020	1 Year
RF Cable	N/A	5m+6m+1m	06270619	Sep. 30, 2020	1 Year
MI Cable	HUBSER	C10-01-01-1 M	1091629	Sep. 30, 2020	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
☒ Radiation 2#chamber					
EMI Test Receiver	R&S	ESCI	101364	Sep. 28, 2020	1 Year

Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-994	Nov. 13, 2020	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Nov. 18, 2020	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 07, 2021	1 Year
Pre-amplifier	TERA-MW	TRLA-0040 G35	1013 03	Sep. 28, 2020	1 Year
RF Cable	N/A	14+1.5m	06270619	Sep. 28, 2020	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
□ Power Line Conducted Emissions Test 1#					
EMI Test Receiver	R&S	ESU8	100316	Sep. 24, 2020	1 Year
LISN 1	R&S	ENV216	101109	Sep. 28, 2020	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 28, 2020	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 24, 2020	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 24, 2020	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
☑ Power Line Conducted Emissions Test 2#					
Test Receiver	R&S	ESPI	101761	Sep. 24, 2020	1 Year
LISN 1	R&S	ENV216	101170	Sep. 28, 2020	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 28, 2020	1 Year
Pulse Limiter	R&S	KH43101	43101180156 8-12#	Jun. 01, 2021	1 Year
CE Cable 2	HUBSER	N/A	W11.02	Sep. 24, 2020	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. 6 dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

RBW: 300 kHz

VBW: 1 MHz

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(3) 6 dB Bandwidth set the spectrum analyzer as follows:

RBW: 100 kHz

VBW: 300 kHz

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(4) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

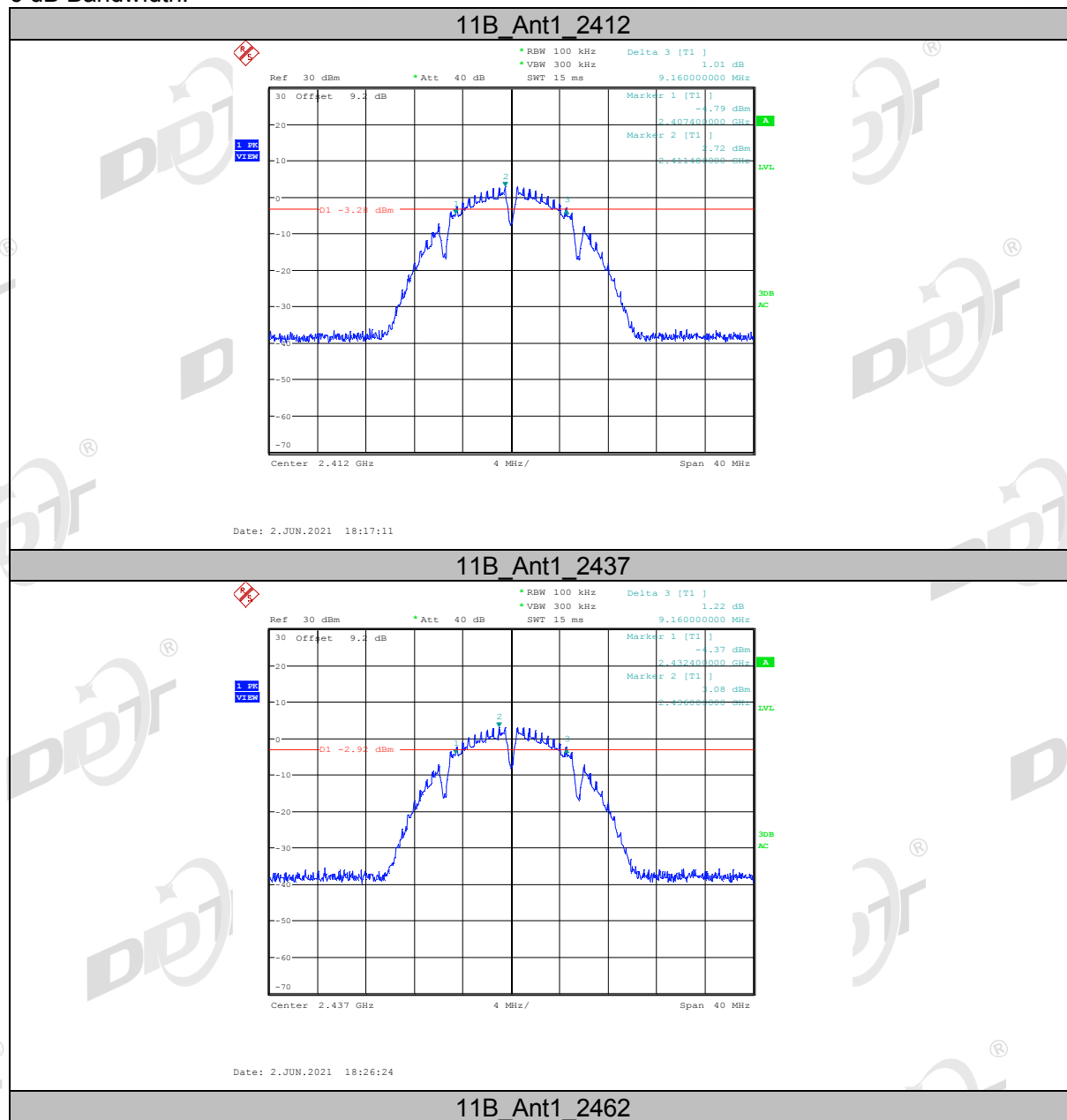
4.4. Test result

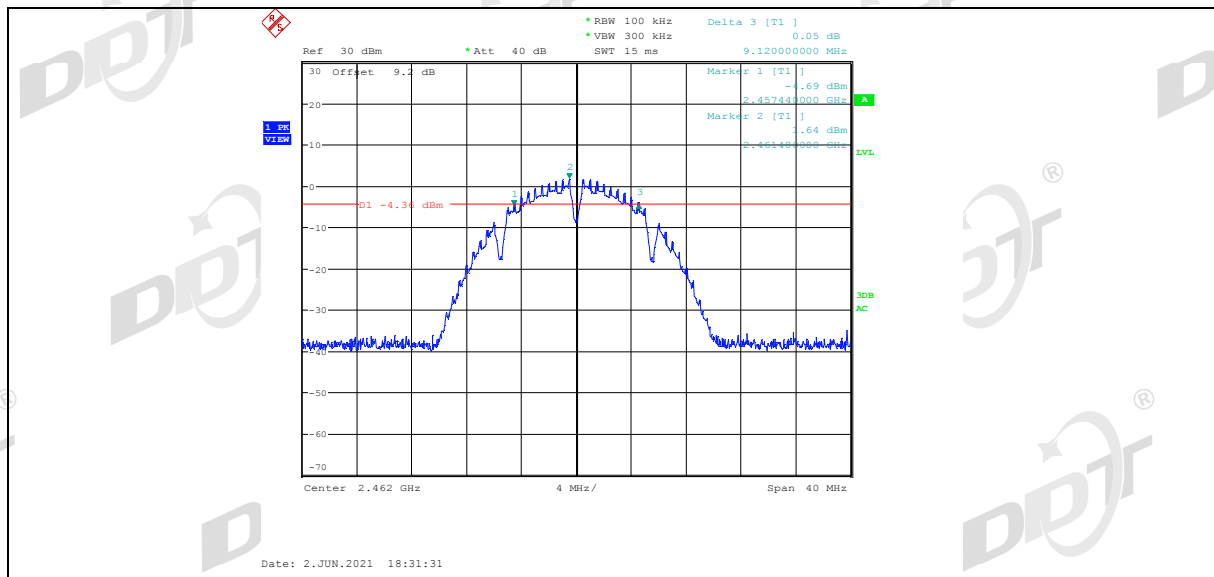
Test Mode	Test	Ant	6 dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	2412	Ant1	9.16	0.5	Pass
11B	2437	Ant1	9.16	0.5	Pass
11B	2462	Ant1	9.12	0.5	Pass
11G	2412	Ant1	16.60	0.5	Pass
11G	2437	Ant1	16.64	0.5	Pass
11G	2462	Ant1	16.64	0.5	Pass
11N20SISO	2412	Ant1	17.76	0.5	Pass
11N20SISO	2437	Ant1	17.76	0.5	Pass
11N20SISO	2462	Ant1	17.76	0.5	Pass
11N40SISO	2422	Ant1	36.72	0.5	Pass
11N40SISO	2437	Ant1	36.64	0.5	Pass
11N40SISO	2452	Ant1	36.64	0.5	Pass

Test Mode	Test	Ant	99% OBW [MHz]	Limit [MHz]	Verdict
11B	2412	Ant1	13.72	---	Pass
11B	2437	Ant1	13.88	---	Pass
11B	2462	Ant1	13.84	---	Pass
11G	2412	Ant1	17.44	---	Pass
11G	2437	Ant1	17.56	---	Pass
11G	2462	Ant1	17.44	---	Pass
11N20SISO	2412	Ant1	18.28	---	Pass
11N20SISO	2437	Ant1	18.32	---	Pass
11N20SISO	2462	Ant1	18.28	---	Pass
11N40SISO	2422	Ant1	36.96	---	Pass
11N40SISO	2437	Ant1	36.96	---	Pass
11N40SISO	2452	Ant1	36.96	---	Pass

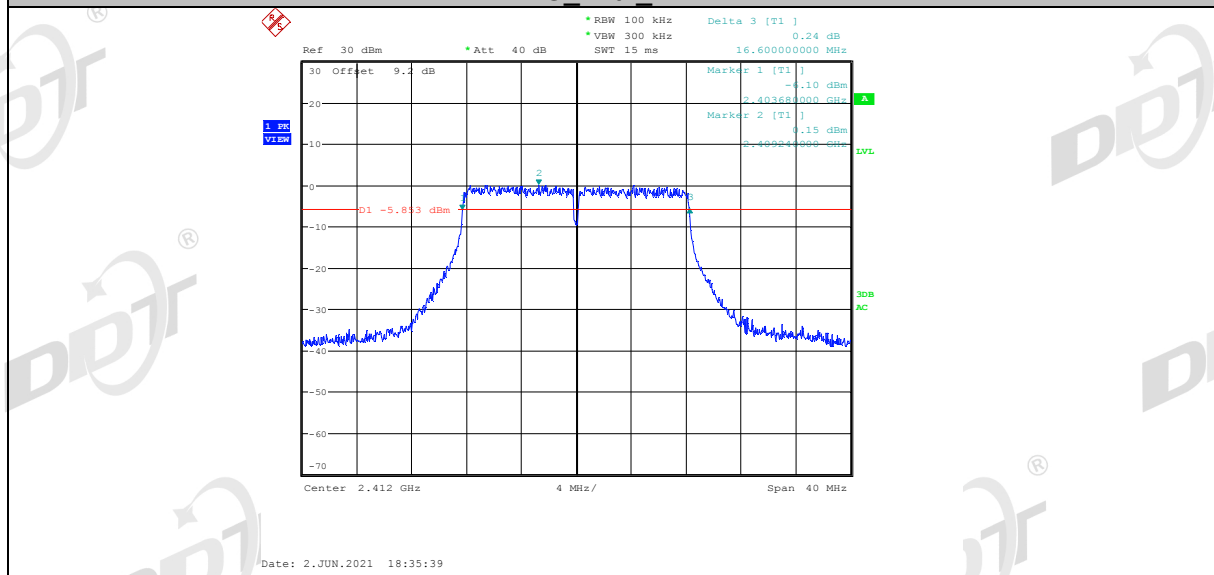
4.5. Original test data

6 dB Bandwidth:

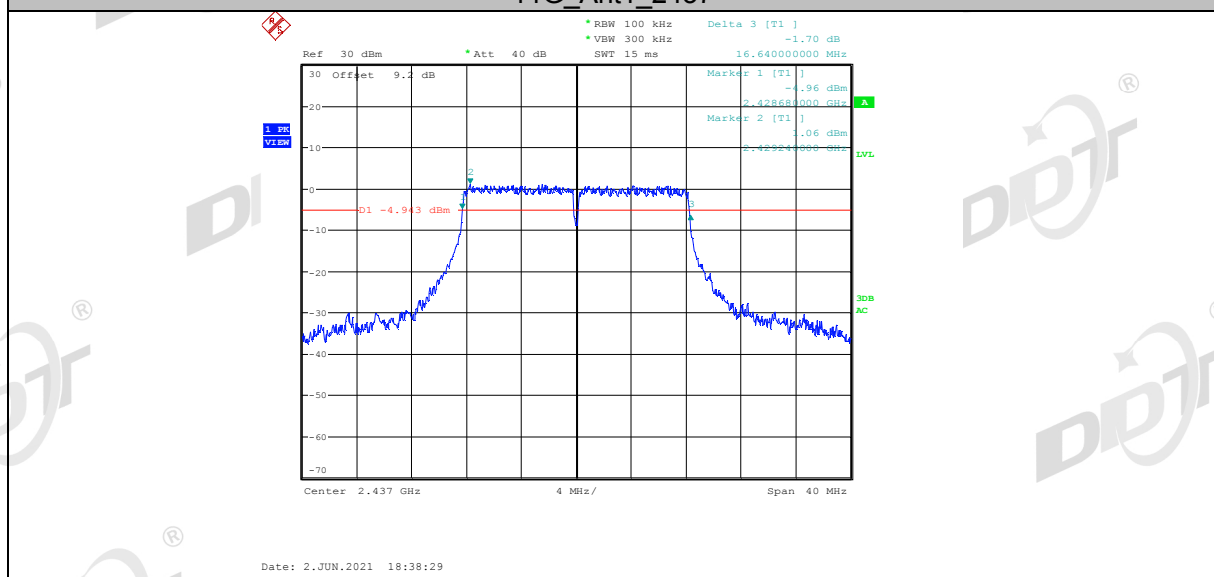




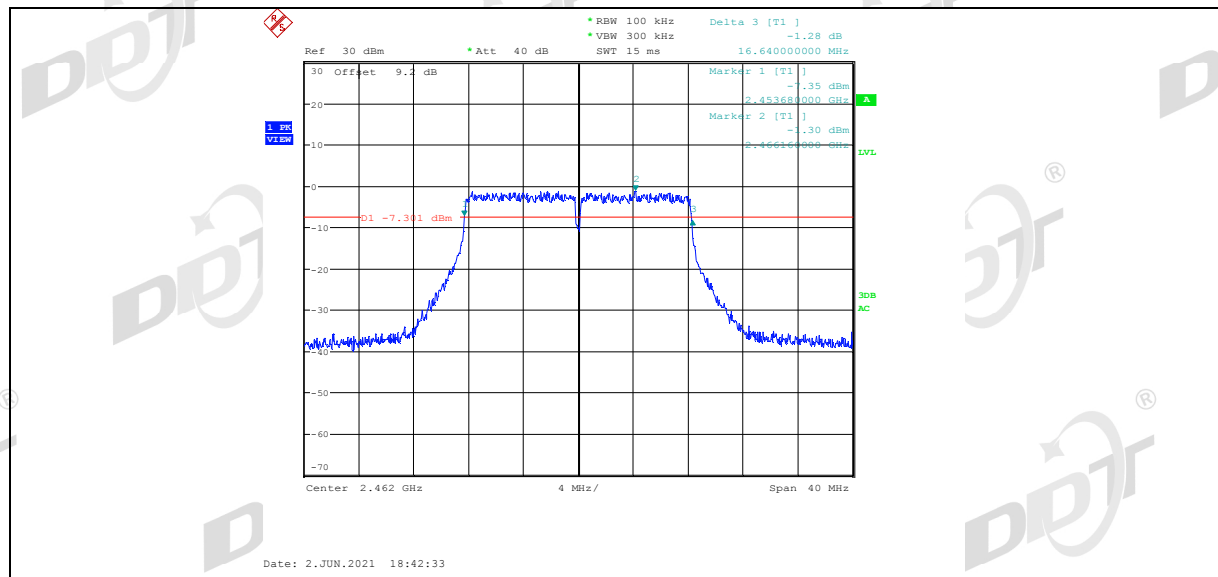
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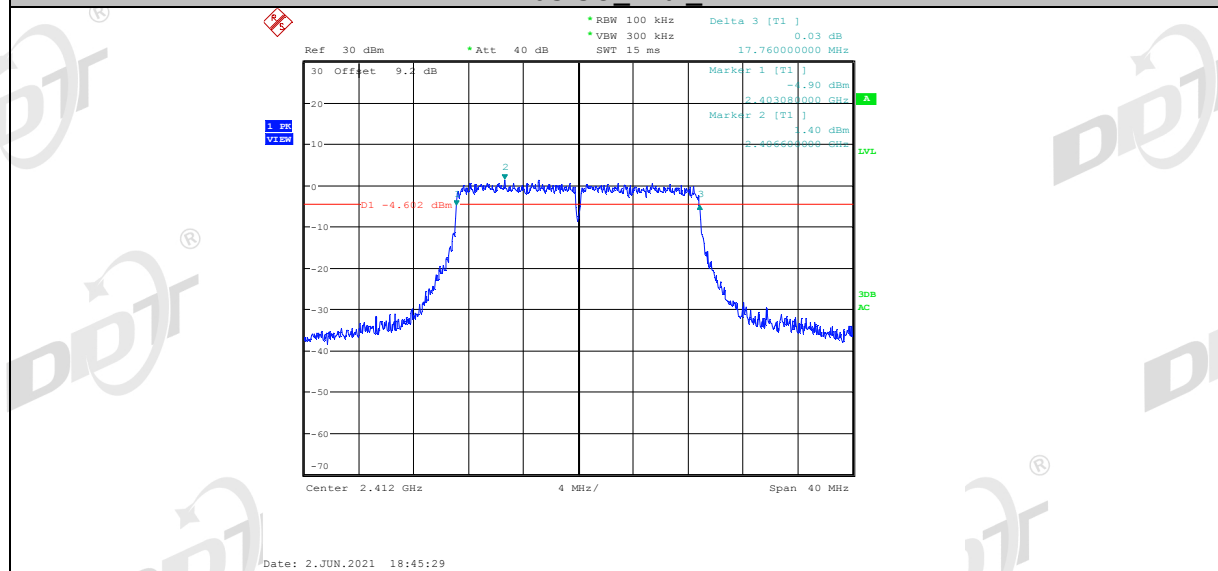
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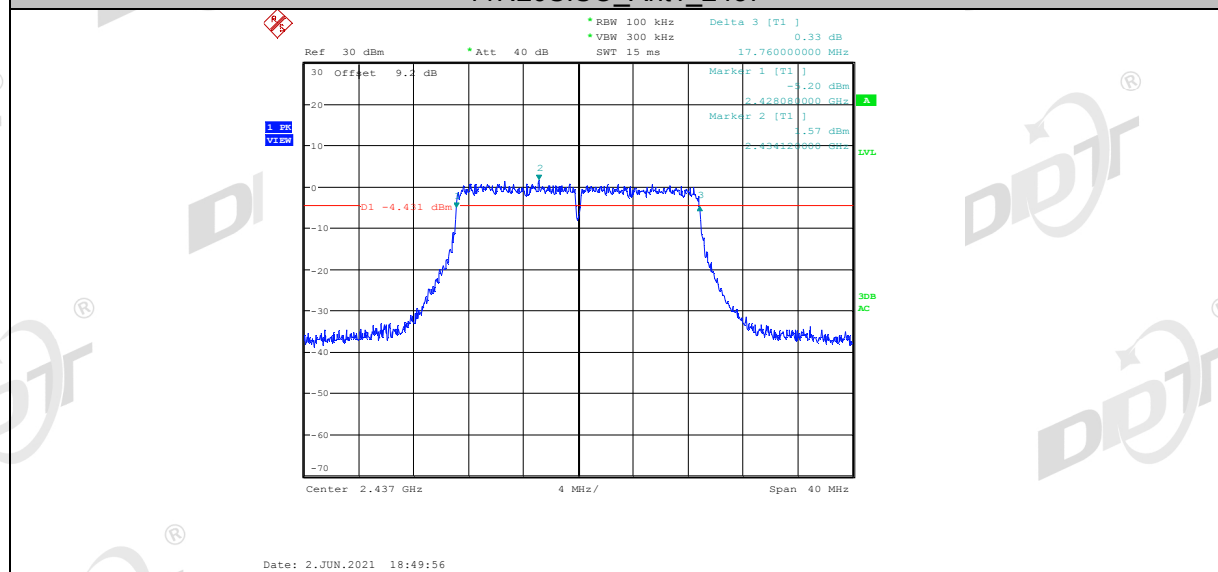
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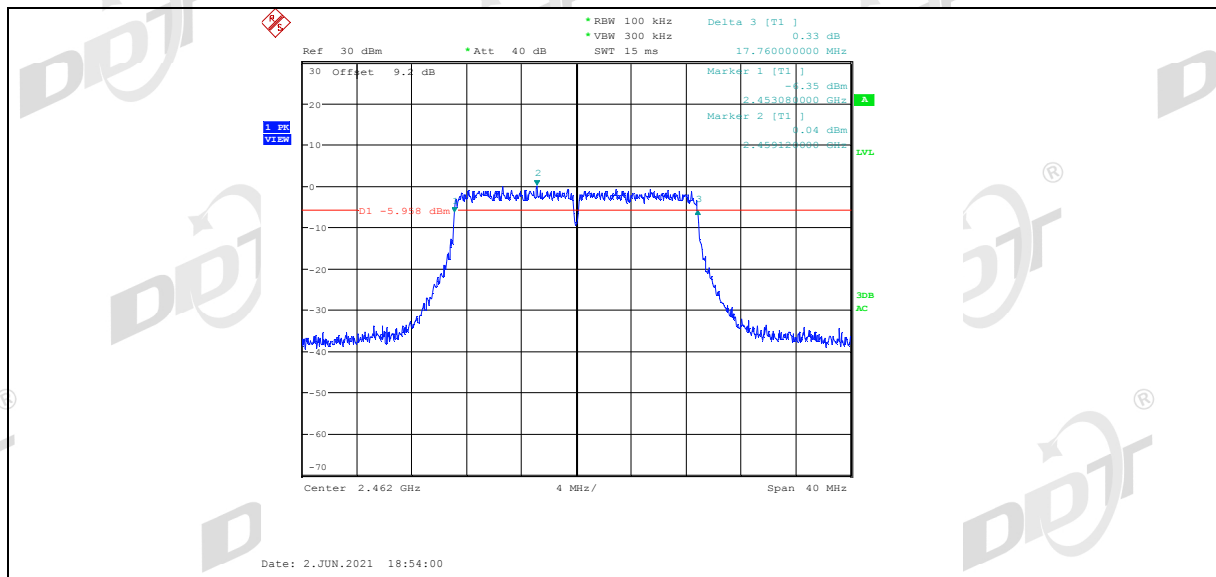
11N20SISO_Ant1_2412



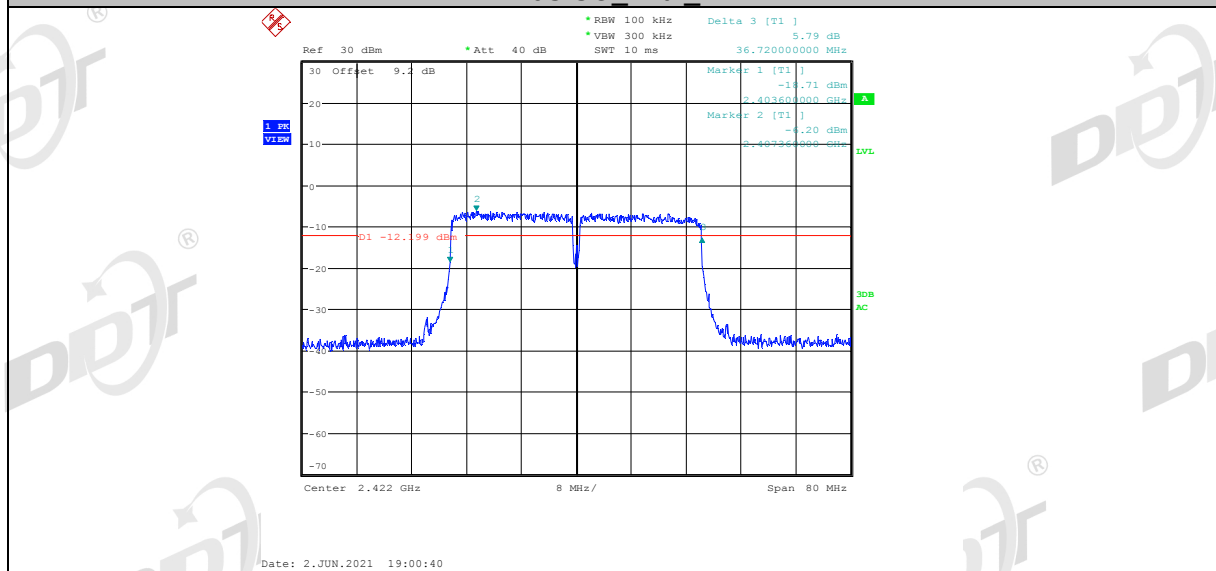
11N20SISO_Ant1_2437



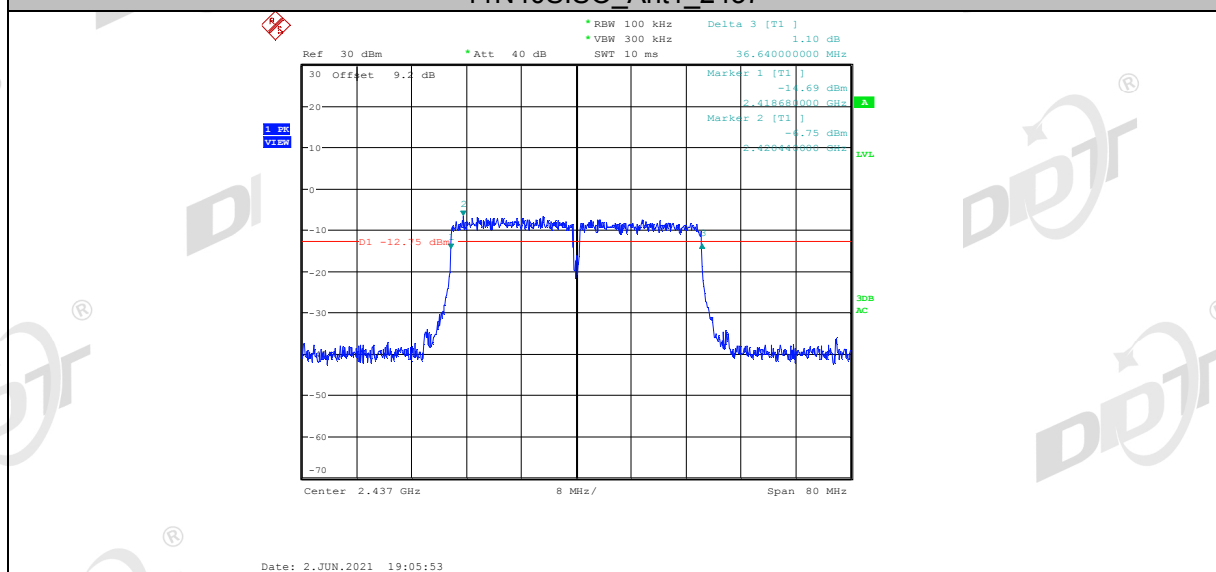
11N20SISO_Ant1_2462



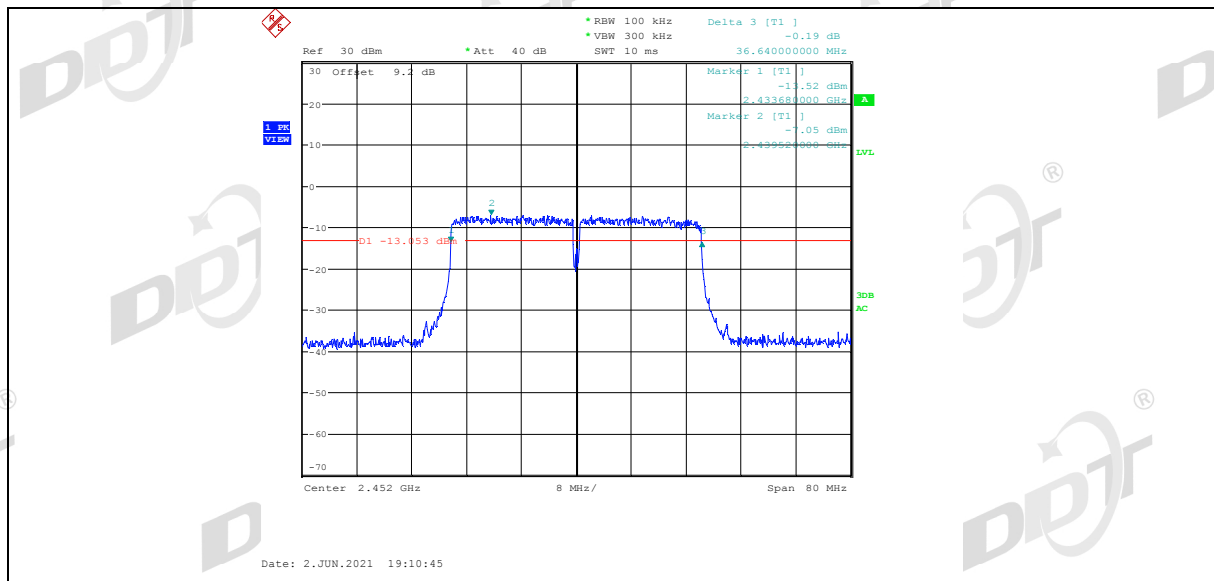
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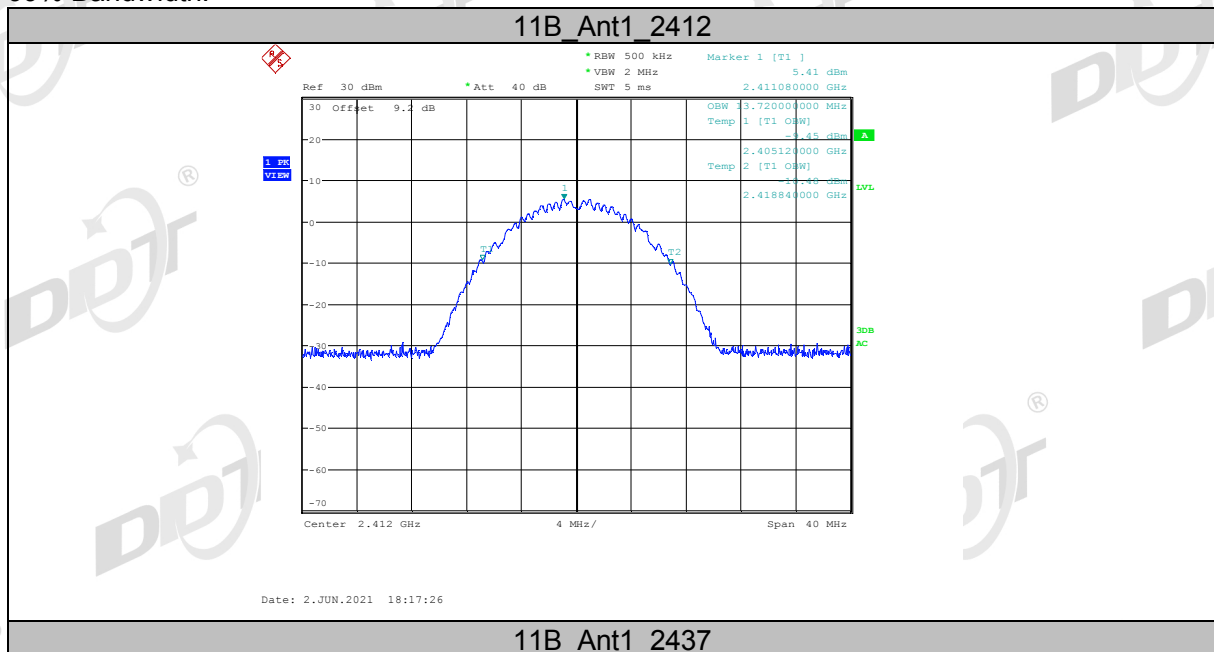
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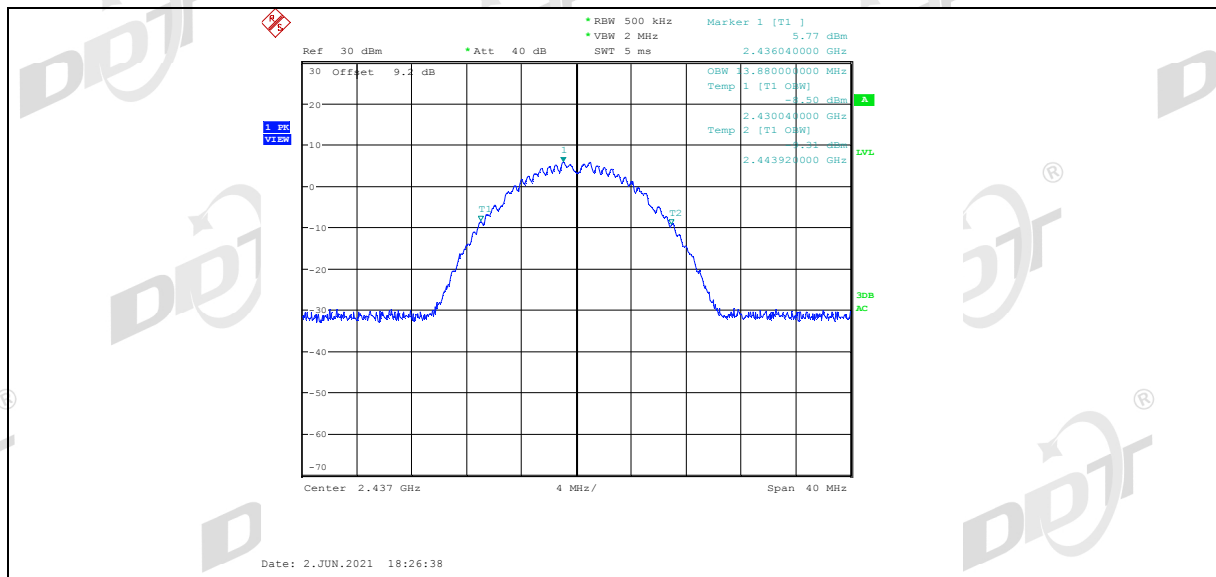


11N40SISO_Ant1_2452

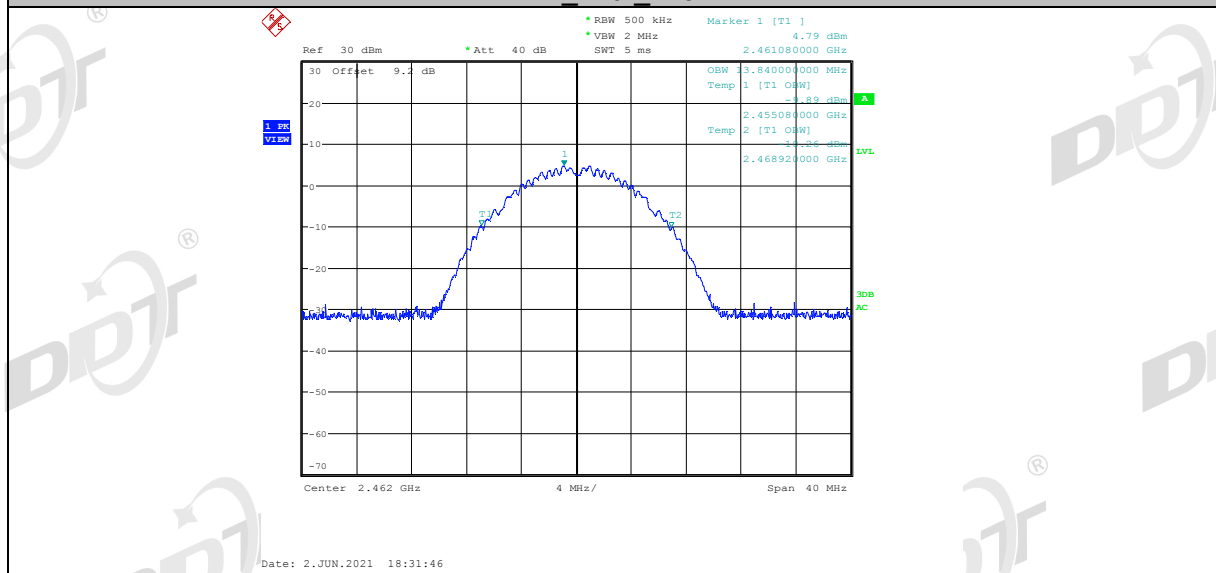


99% Bandwidth:

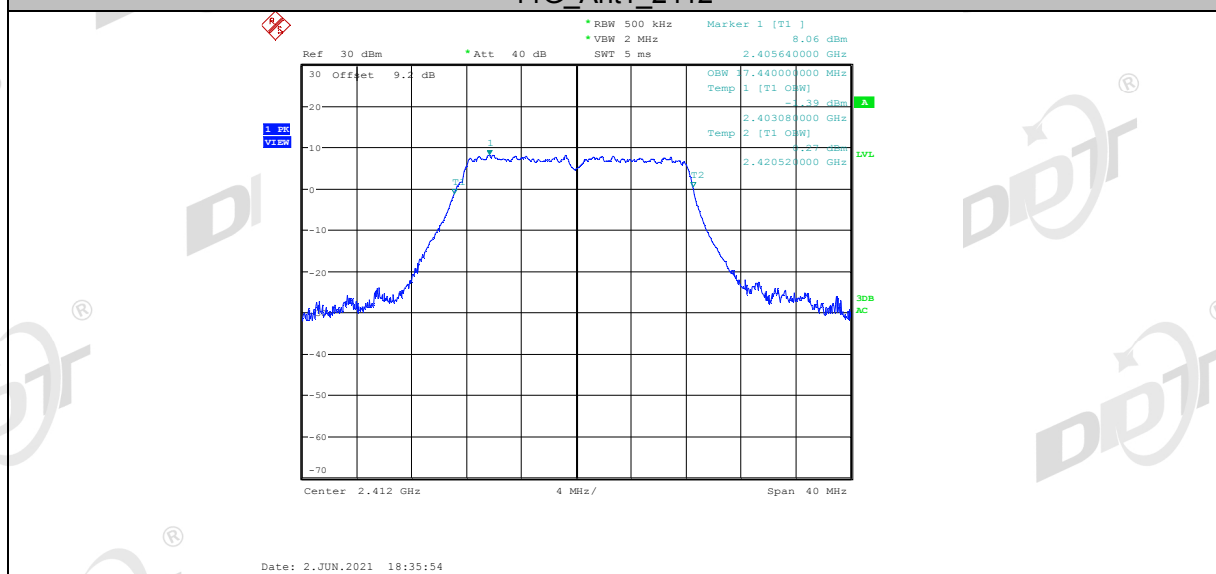




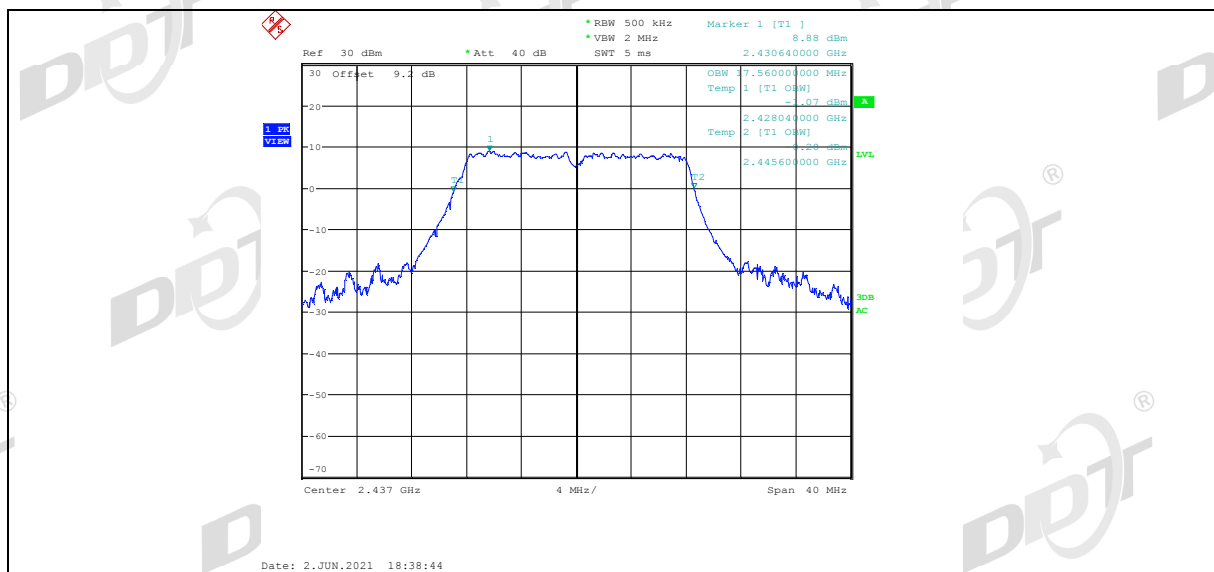
11B_Ant1_2462



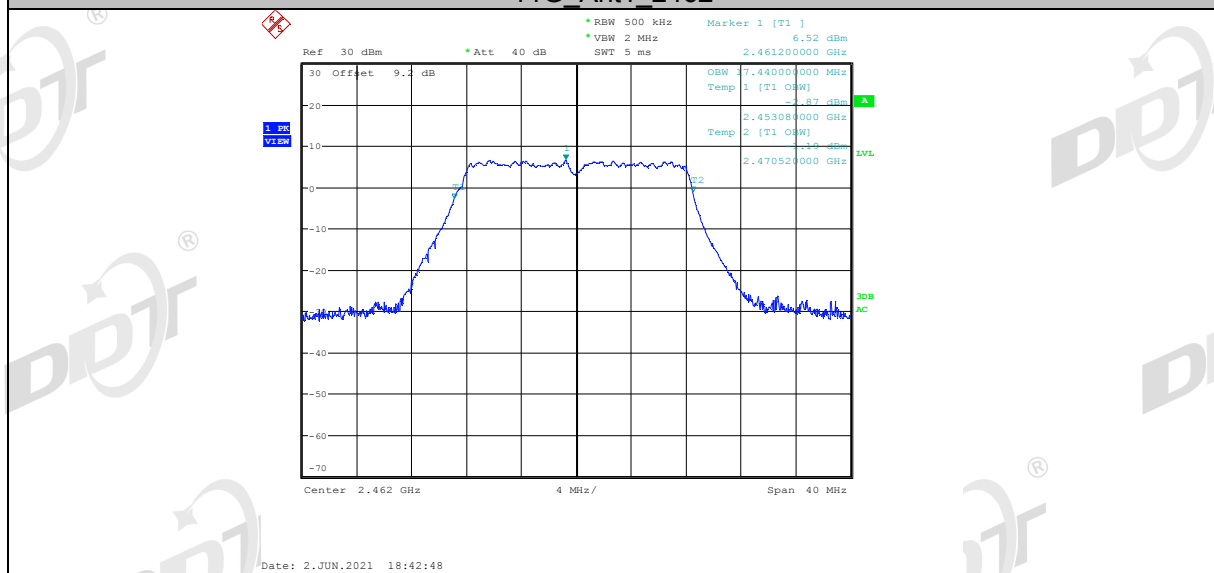
11G_Ant1_2412



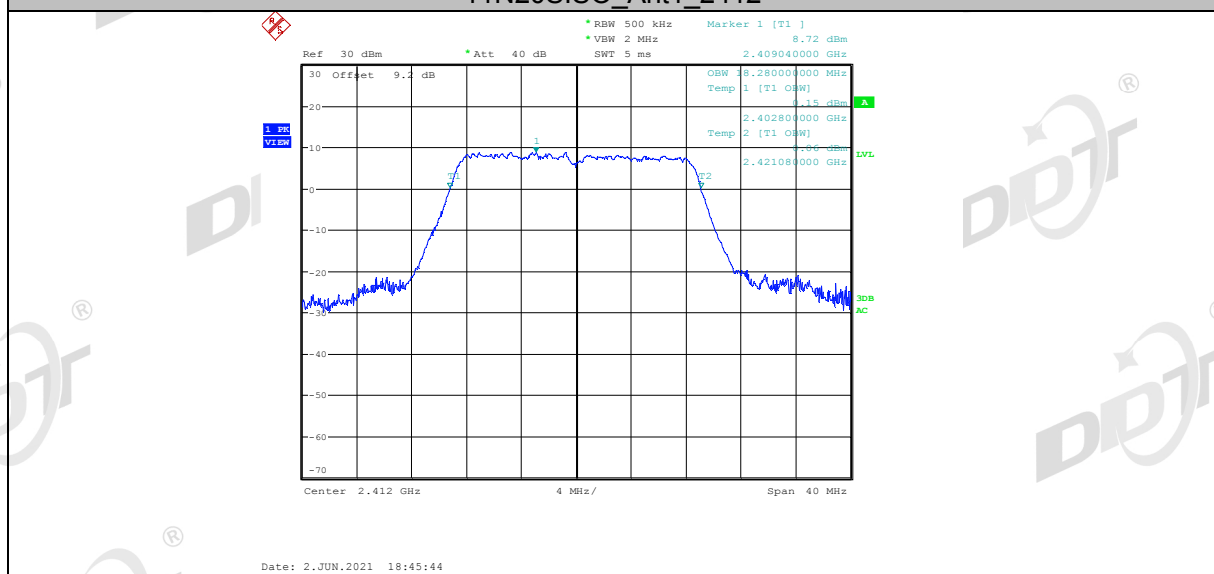
11G_Ant1_2437



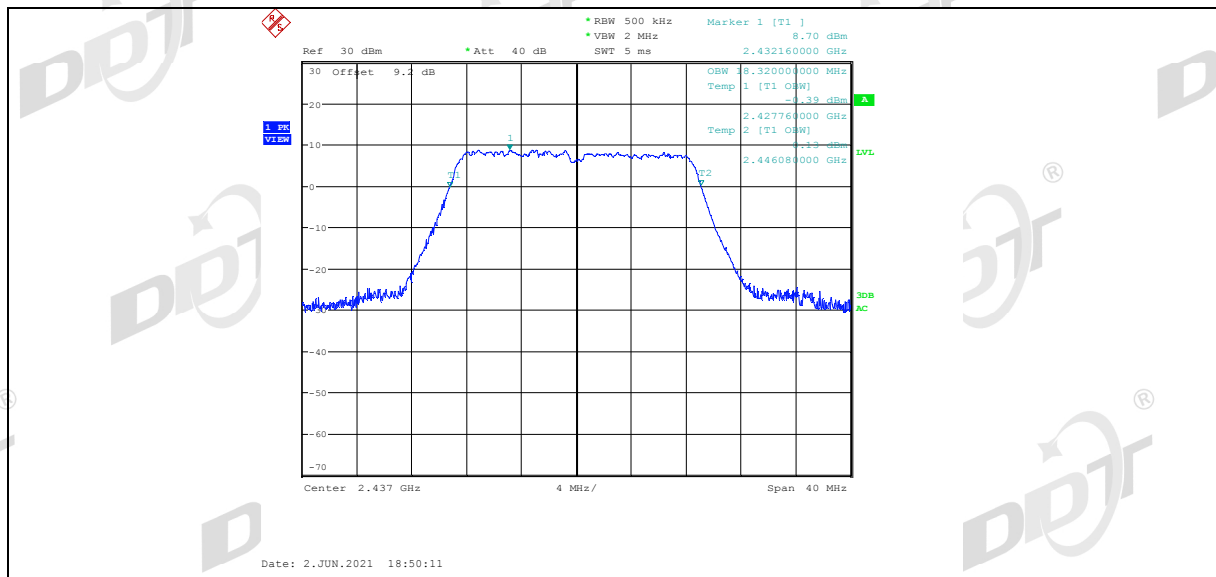
11G Ant1 2462



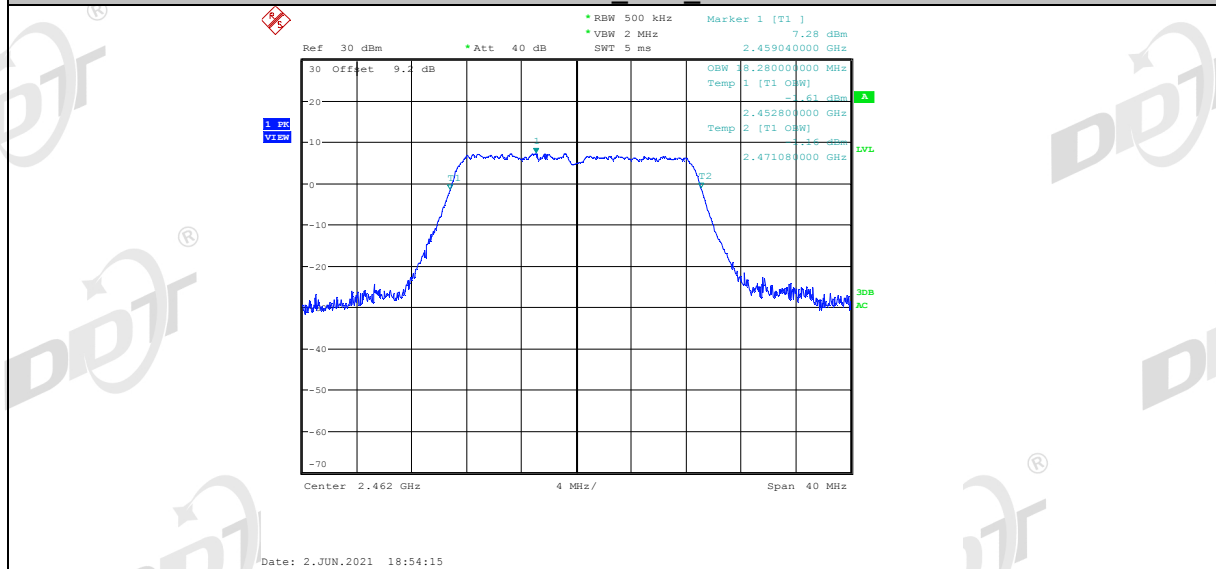
11N20SISO Ant1 2412



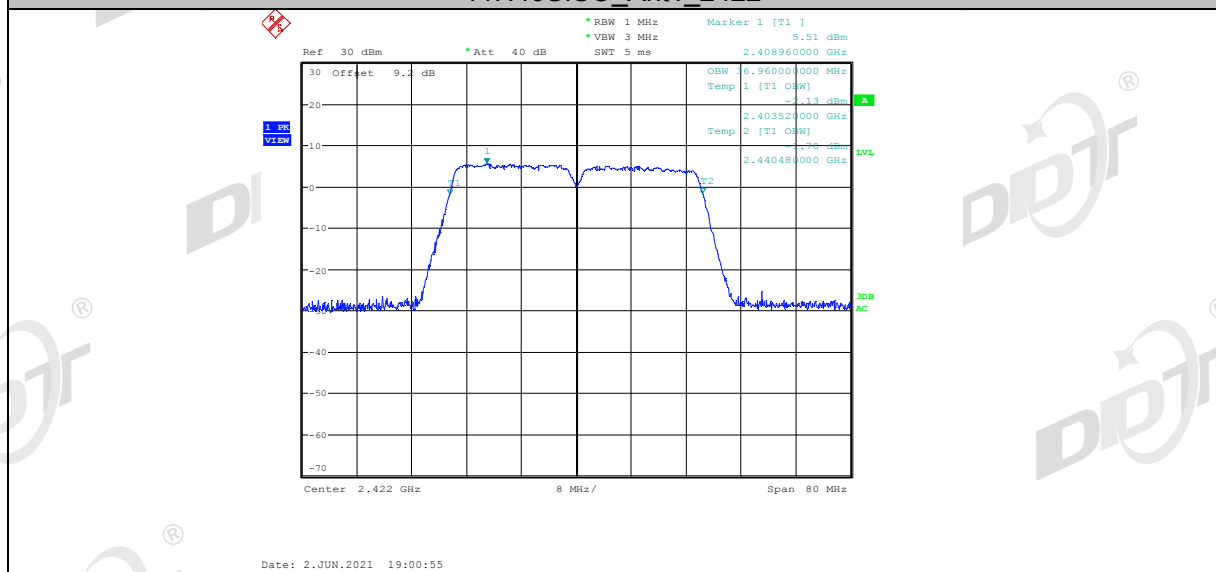
11N20SISO_Ant1_2437



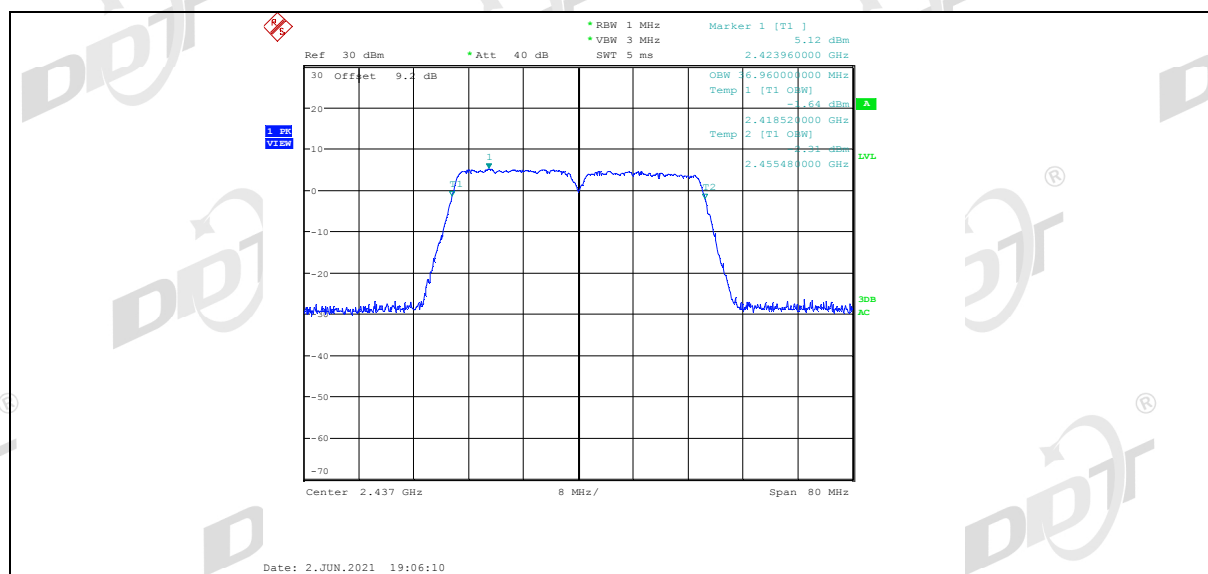
11N20SISO_Ant1_2462



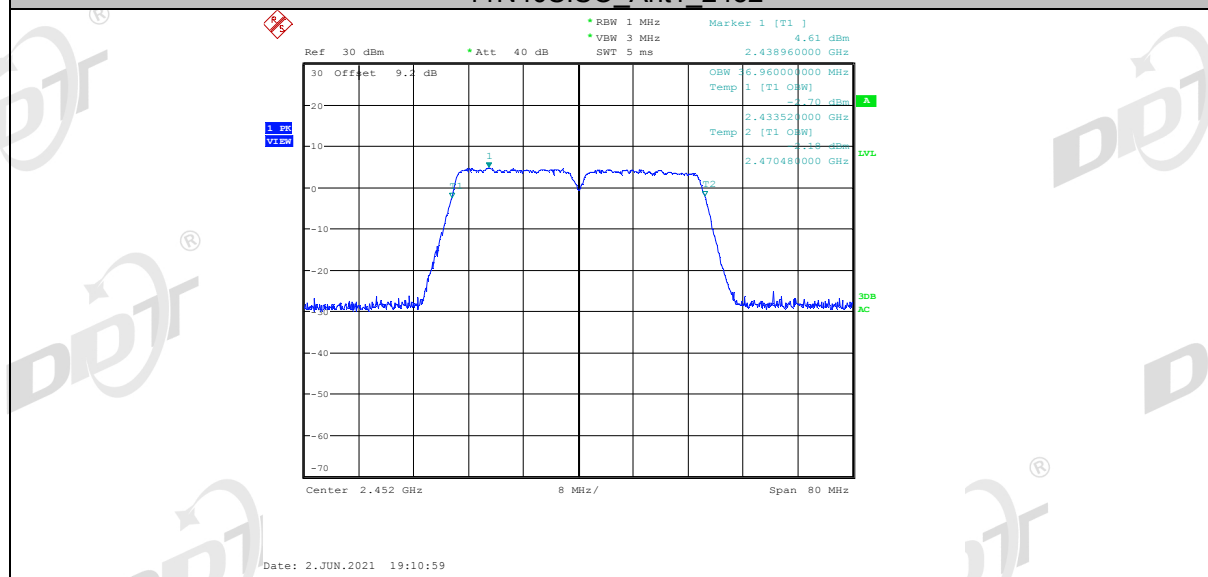
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO Ant1 2452



5. Conducted Peak Output Power

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

For systems using digital modulation in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the PK output power of each antenna port by power sensor

5.4. Test result

Test Mode	Test Channel	Ant	Power [dBm]	Limit [dBm]	Verdict
11B	2412	ANT1	14.22	30	Pass
11B	2437	ANT1	13.13	30	Pass
11B	2462	ANT1	12.36	30	Pass
11G	2412	ANT1	13.12	30	Pass
11G	2437	ANT1	11.98	30	Pass
11G	2462	ANT1	11.07	30	Pass
11N20SISO	2412	ANT1	14.06	30	Pass
11N20SISO	2437	ANT1	12.86	30	Pass
11N20SISO	2462	ANT1	11.89	30	Pass
11N40SISO	2422	ANT1	11.00	30	Pass
11N40SISO	2437	ANT1	10.41	30	Pass
11N40SISO	2452	ANT1	9.85	30	Pass

6. Power Spectral Density

6.1. Block diagram of test setup

Same as section 4.1

6.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	RMS
Sweep time:	auto
Trace mode	Max hold

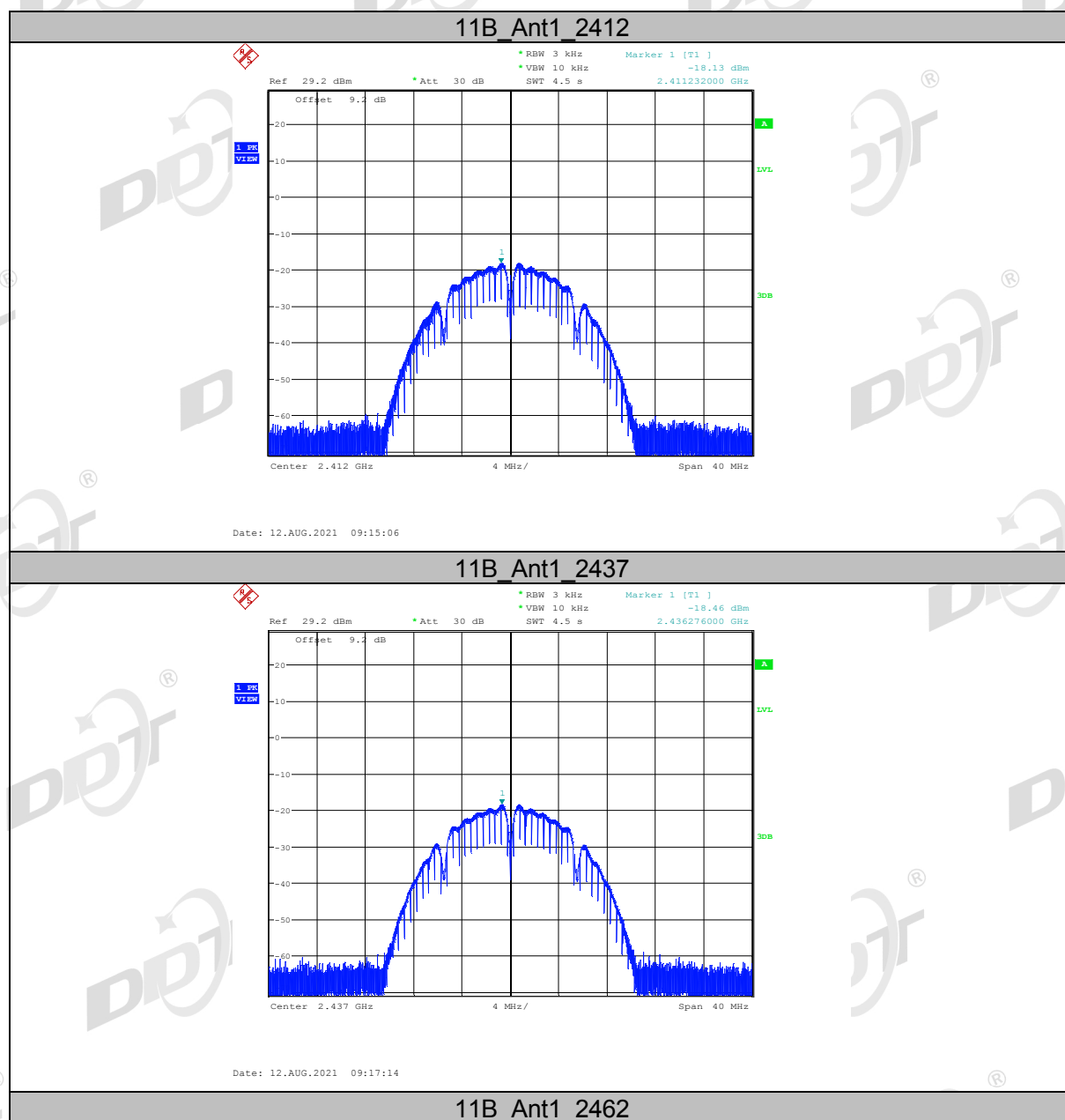
(3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.

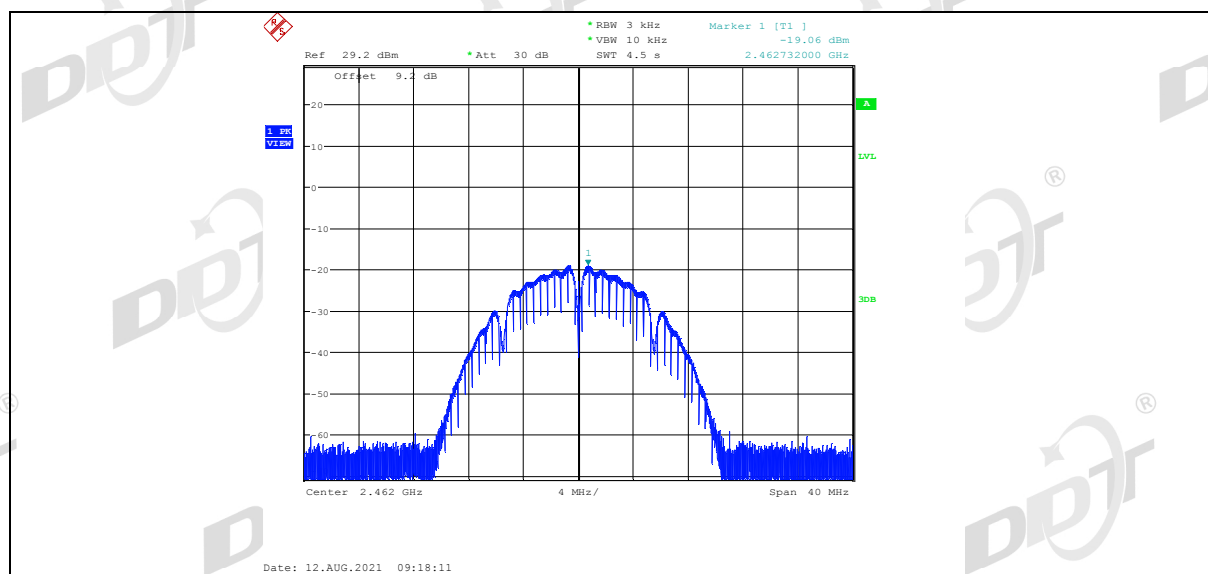
(4) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.4. Test result

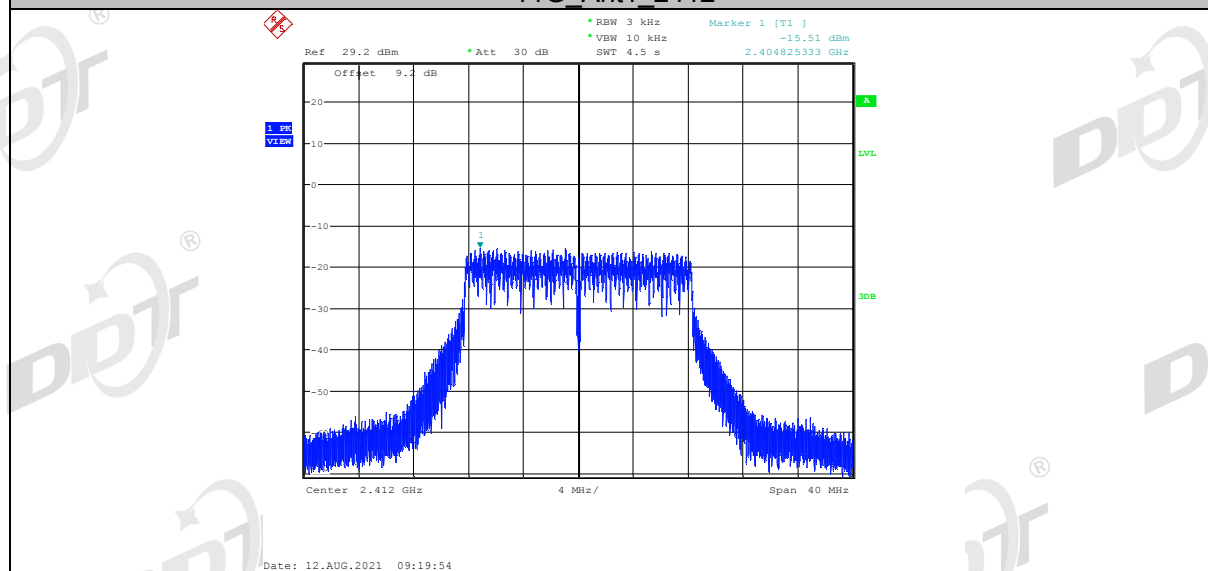
Test Mode	Antenna	Channel [MHz]	Result [dBm/ 3 kHz]	Limit [dBm/ 3 kHz]	Verdict
11B	ANT1	2412	-18.13	8	Pass
11B	ANT1	2437	-18.46	8	Pass
11B	ANT1	2462	-19.06	8	Pass
11G	ANT1	2412	-15.51	8	Pass
11G	ANT1	2437	-16.53	8	Pass
11G	ANT1	2462	-17.19	8	Pass
11N20SISO	ANT1	2412	-13.99	8	Pass
11N20SISO	ANT1	2437	-15.55	8	Pass
11N20SISO	ANT1	2462	-15.44	8	Pass
11N40SISO	ANT1	2422	-18.32	8	Pass
11N40SISO	ANT1	2437	-18.79	8	Pass
11N40SISO	ANT1	2452	-19.45	8	Pass

6.5. Original test data

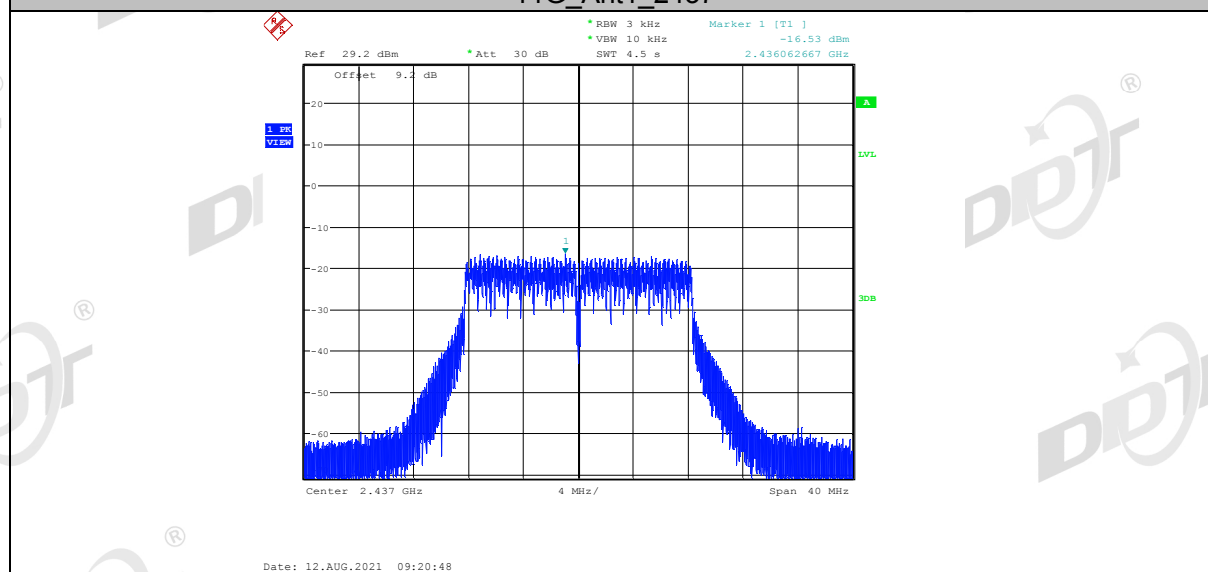




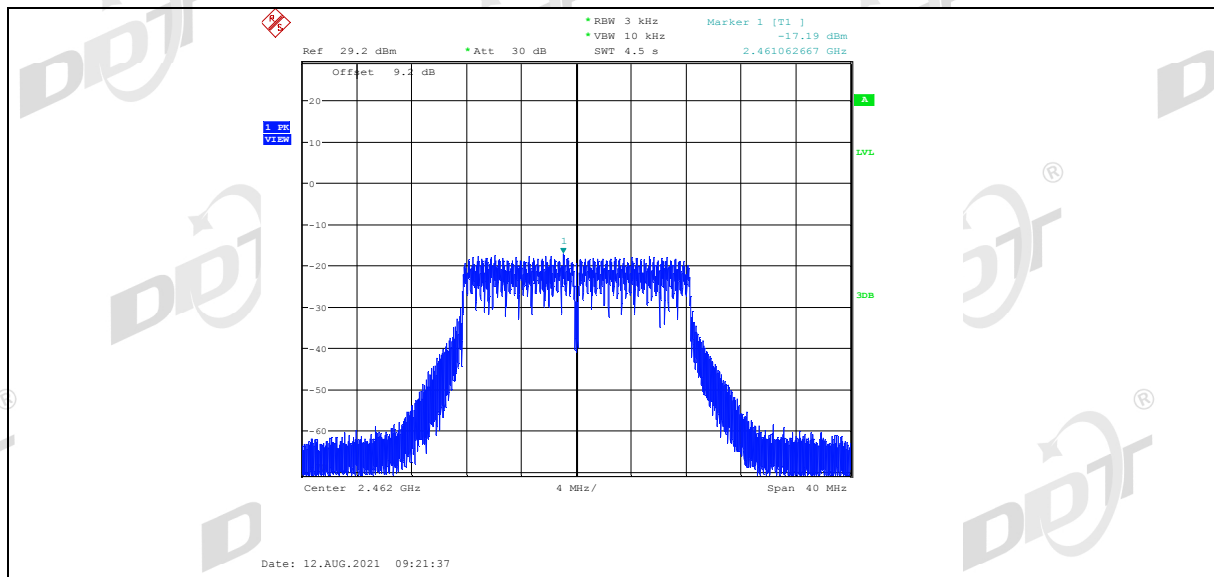
11G_Ant1_2412



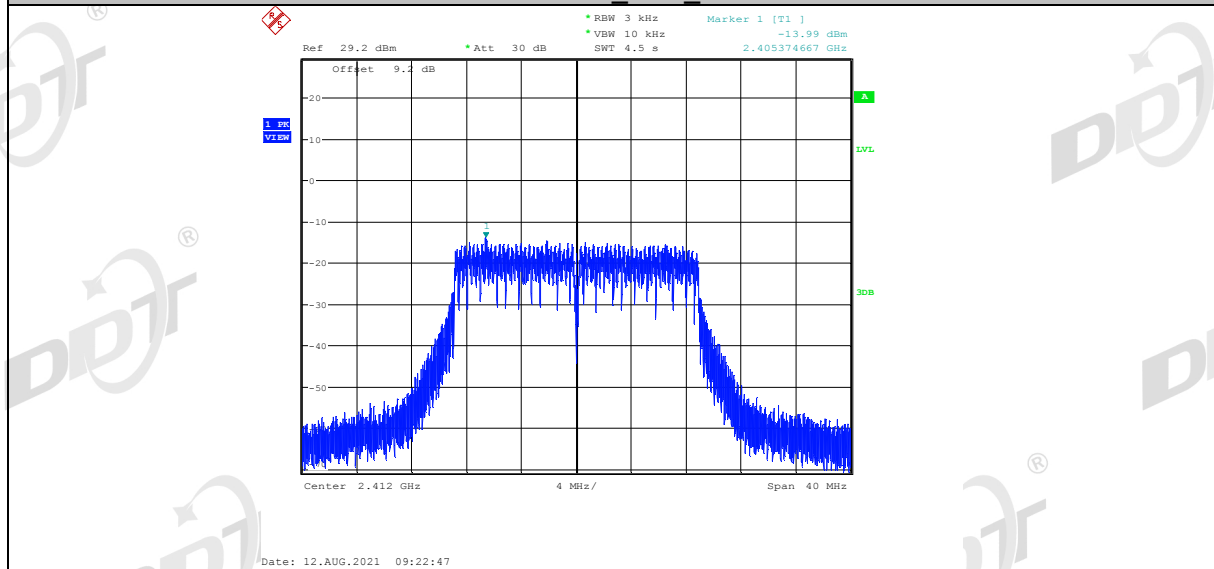
11G_Ant1_2437



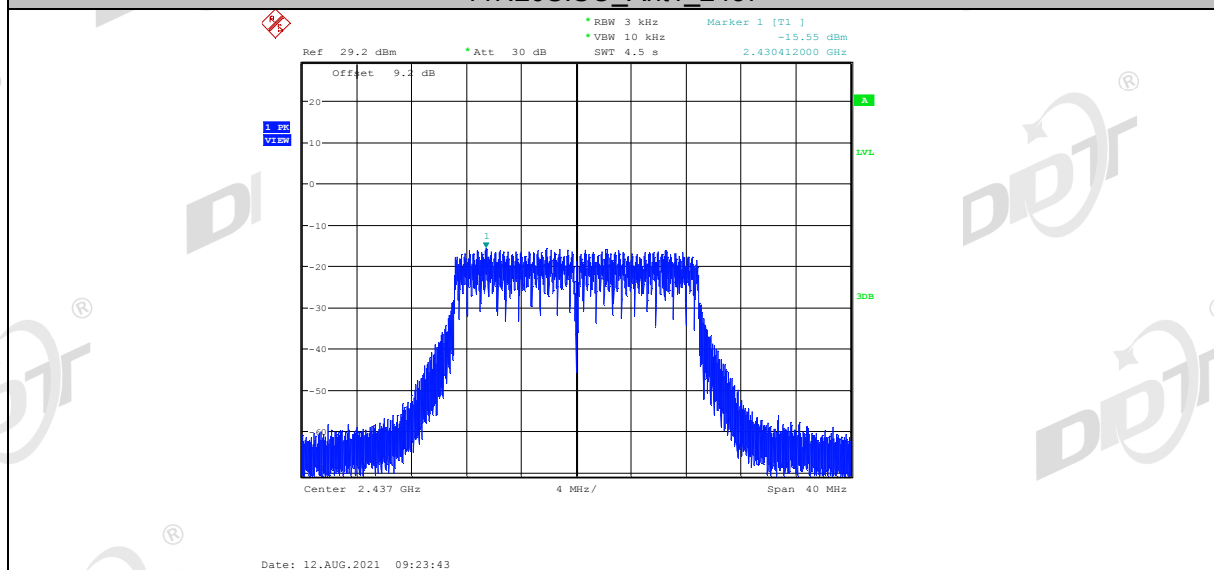
11G_Ant1_2462



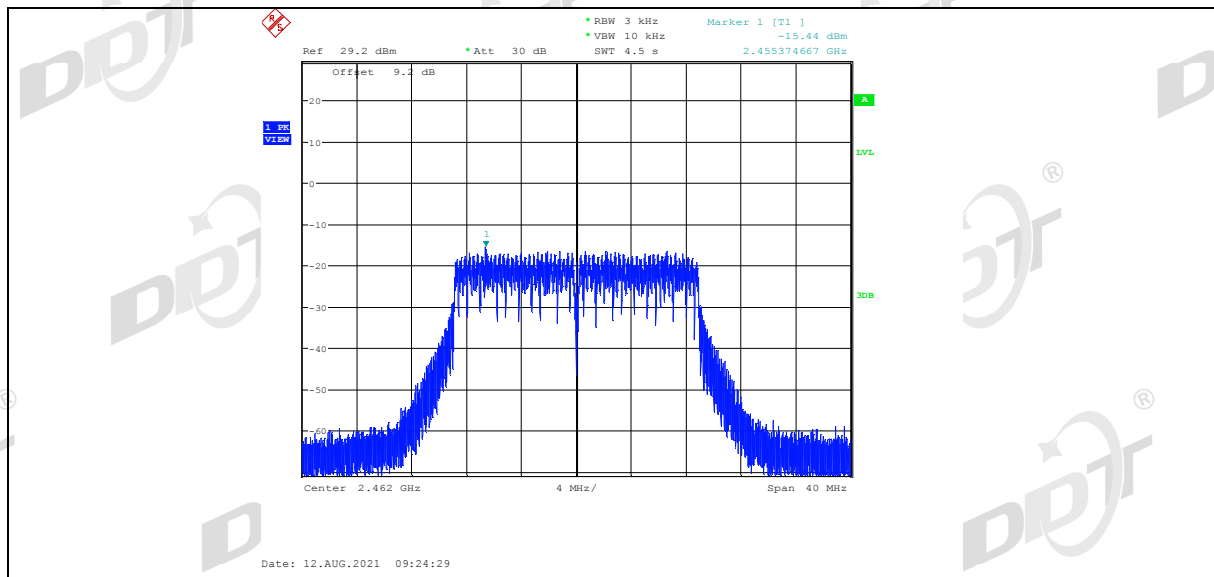
11N20SISO_Ant1_2412



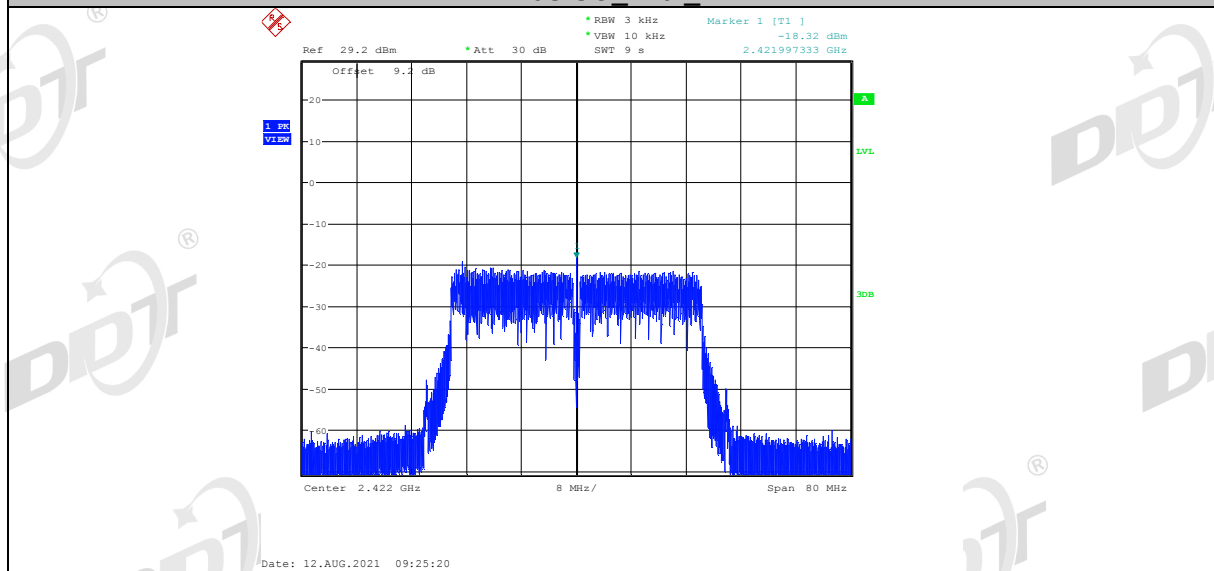
11N20SISO_Ant1_2437



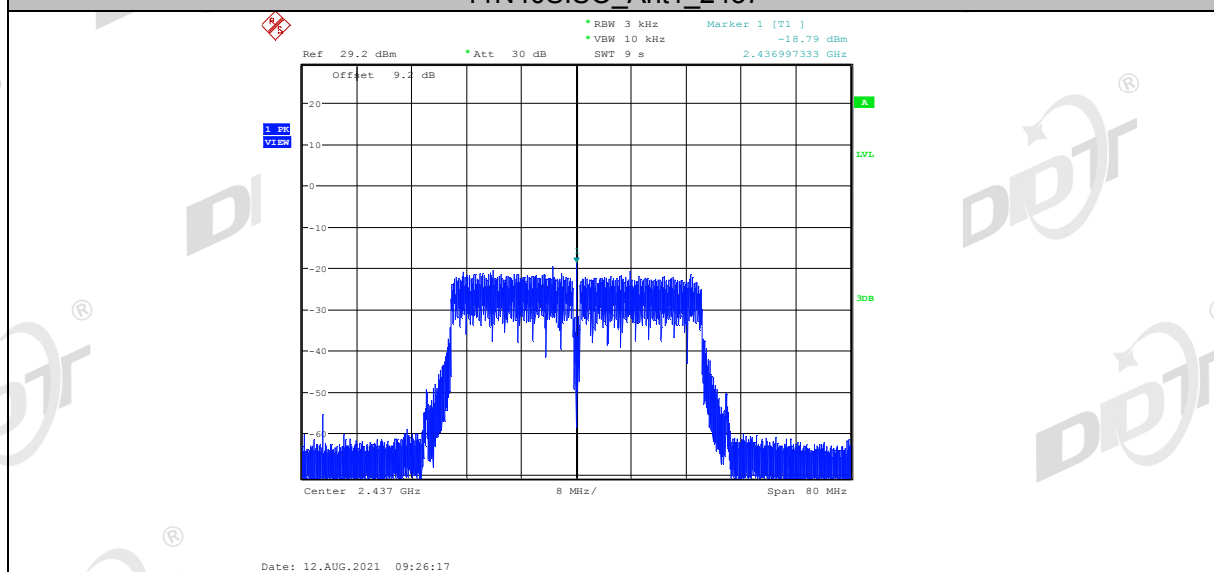
11N20SISO_Ant1_2462



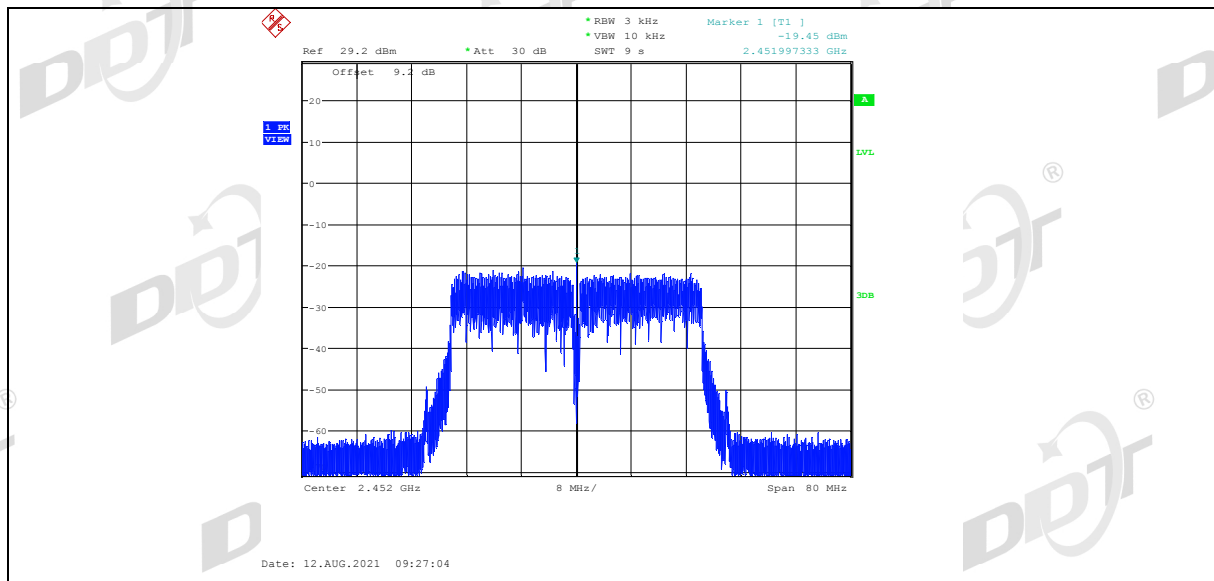
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



7. Band Edge and Spurious Emissions (Conducted)

7.1. Block diagram of test setup

Same as section 4.1

7.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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.

7.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	DTS Channel center frequency
RBW:	100 kHz
VBW:	300 kHz
Span	1.5 times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span/RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

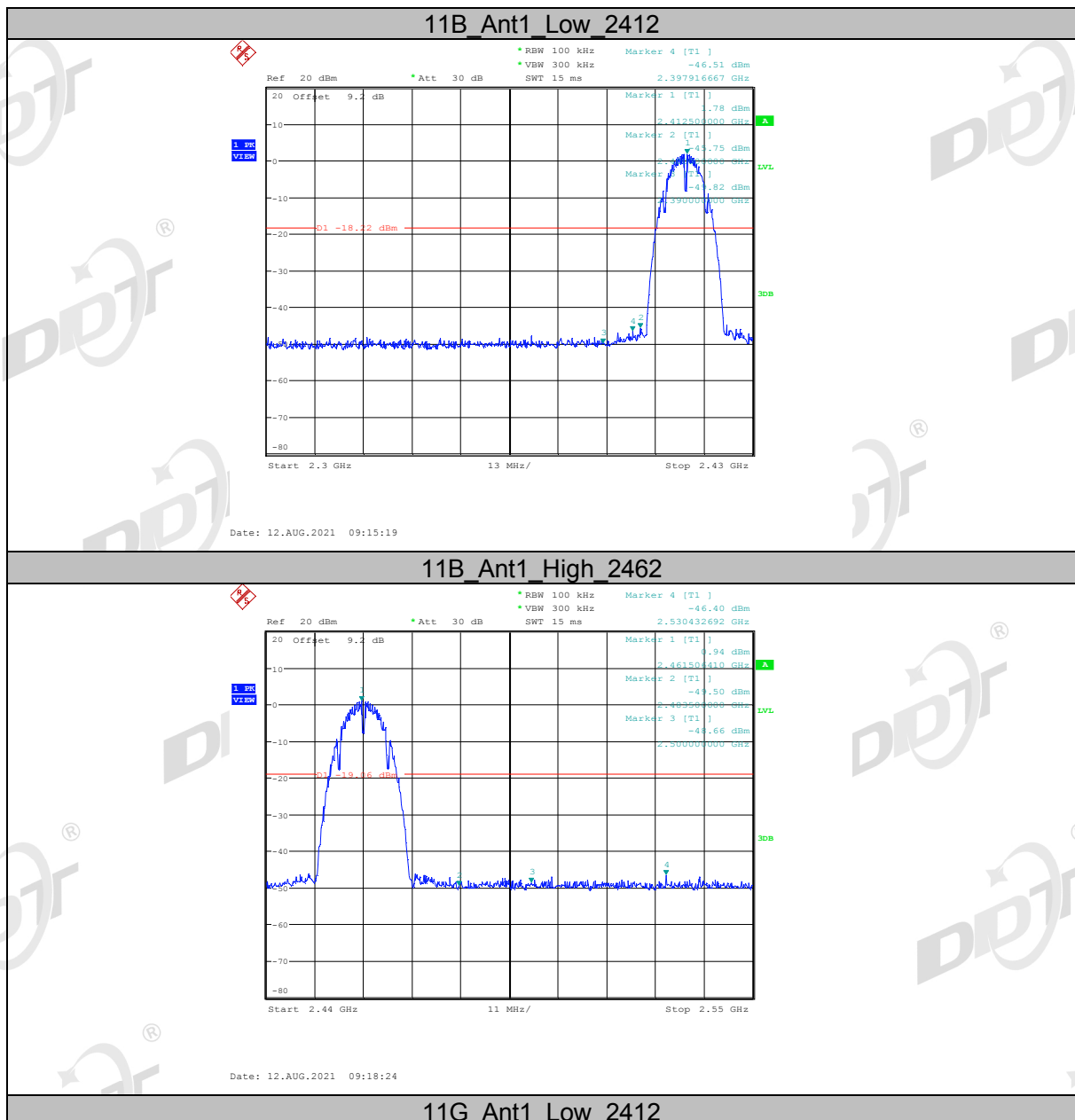
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

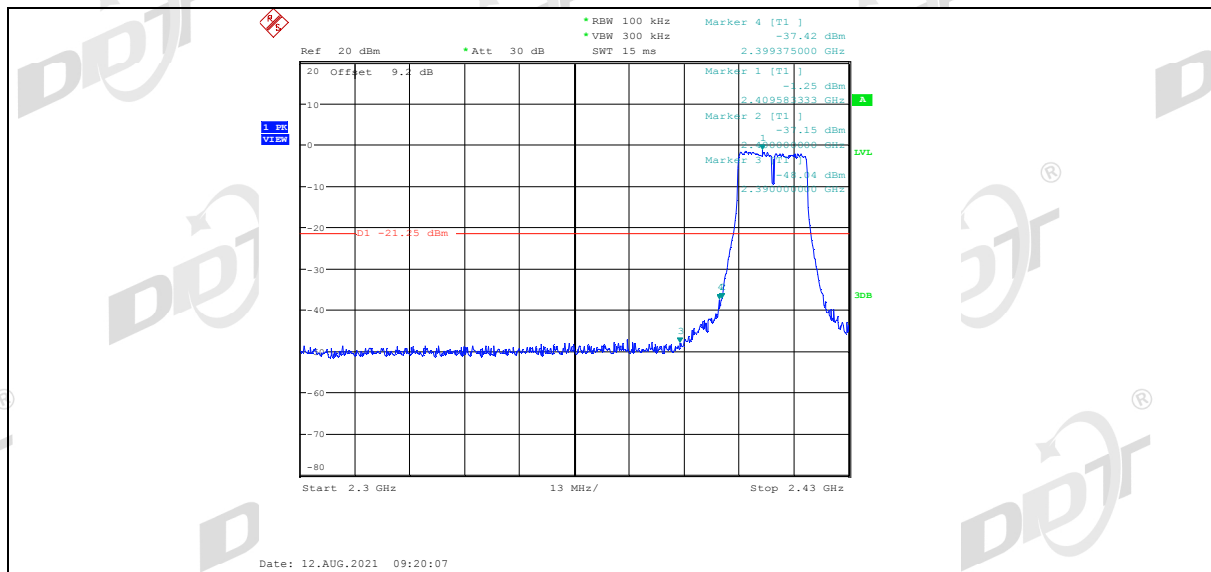
7.4. Test result

EUT Set Mode	CH or Frequency	Ant1 Result (dBm)	EUT Set Mode	CH or Frequency	Ant1 Result (dBm)
11b	CH1	Pass	11n HT 20	CH1	Pass
	CH6	Pass		CH6	Pass
	CH11	Pass		CH11	Pass
11g	CH1	Pass	11n HT 40	CH3	Pass
	CH6	Pass		CH6	Pass
	CH11	Pass		CH9	Pass

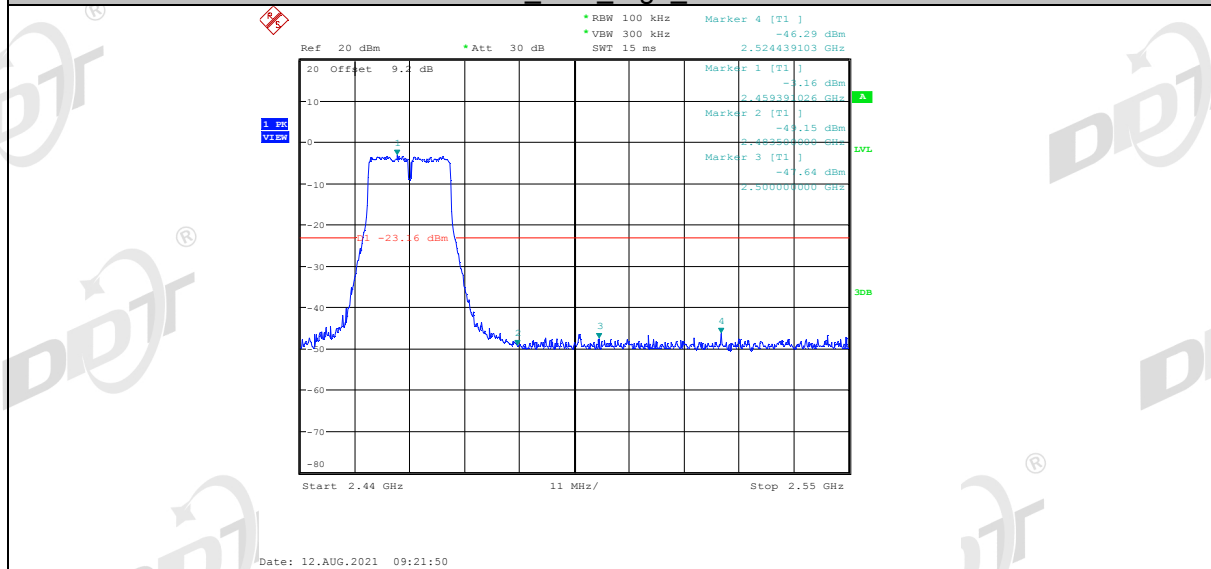
7.5. Original test data

Band Edge:

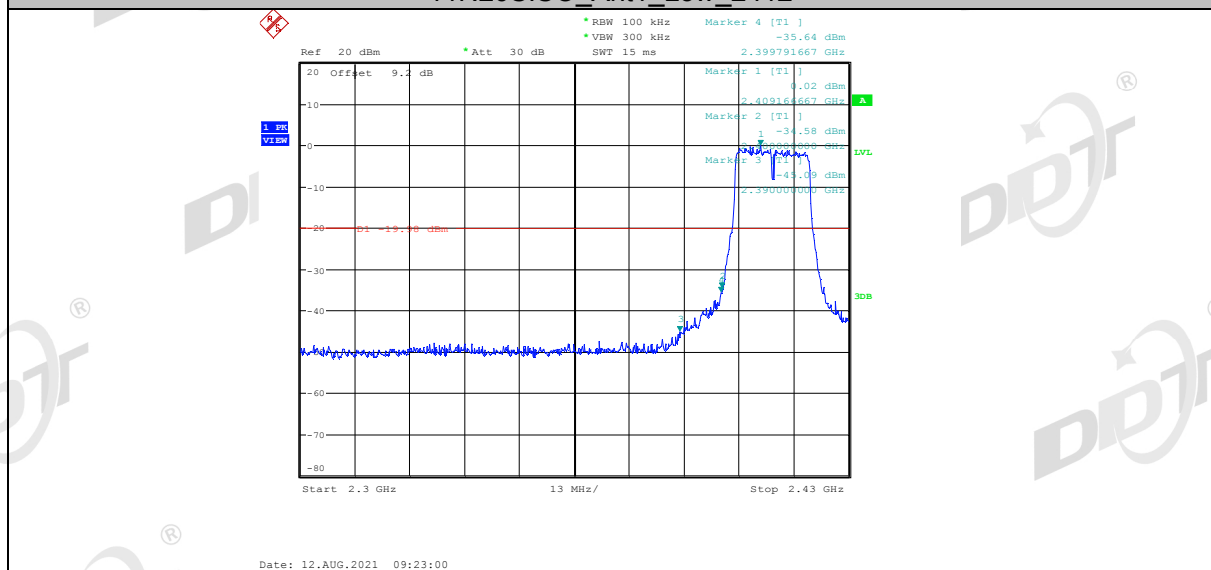




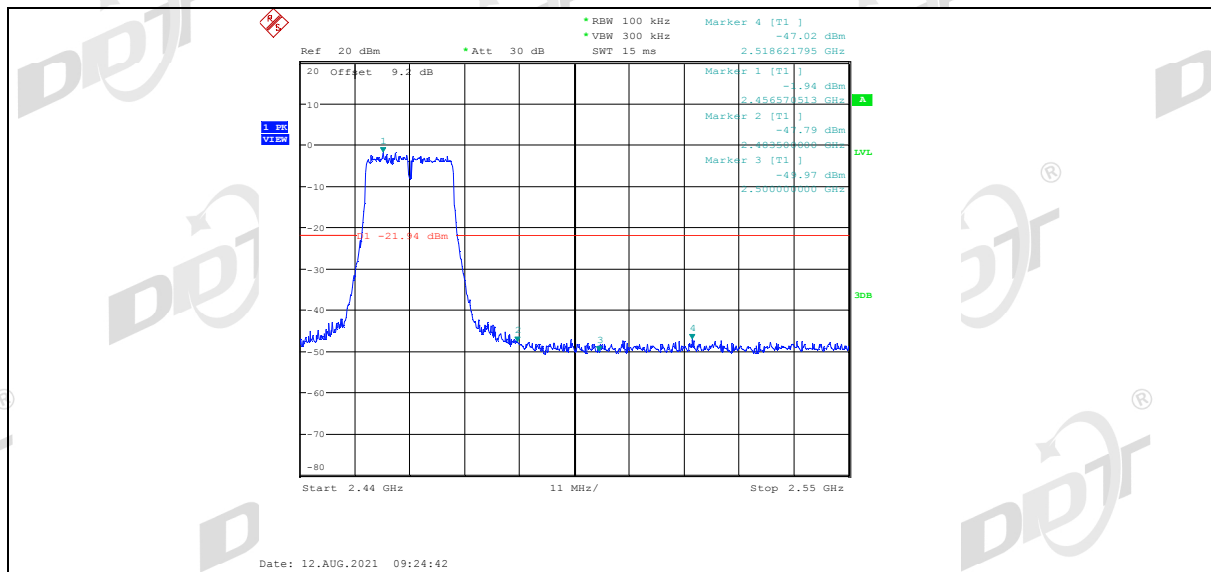
11G_Ant1_High_2462



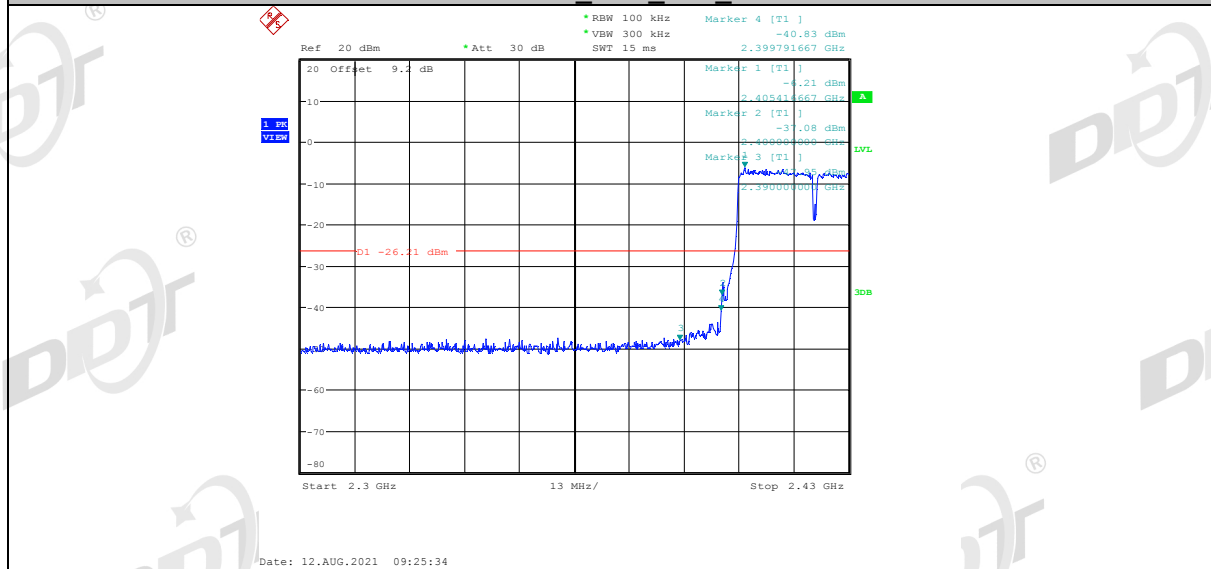
11N20SISO_Ant1_Low_2412



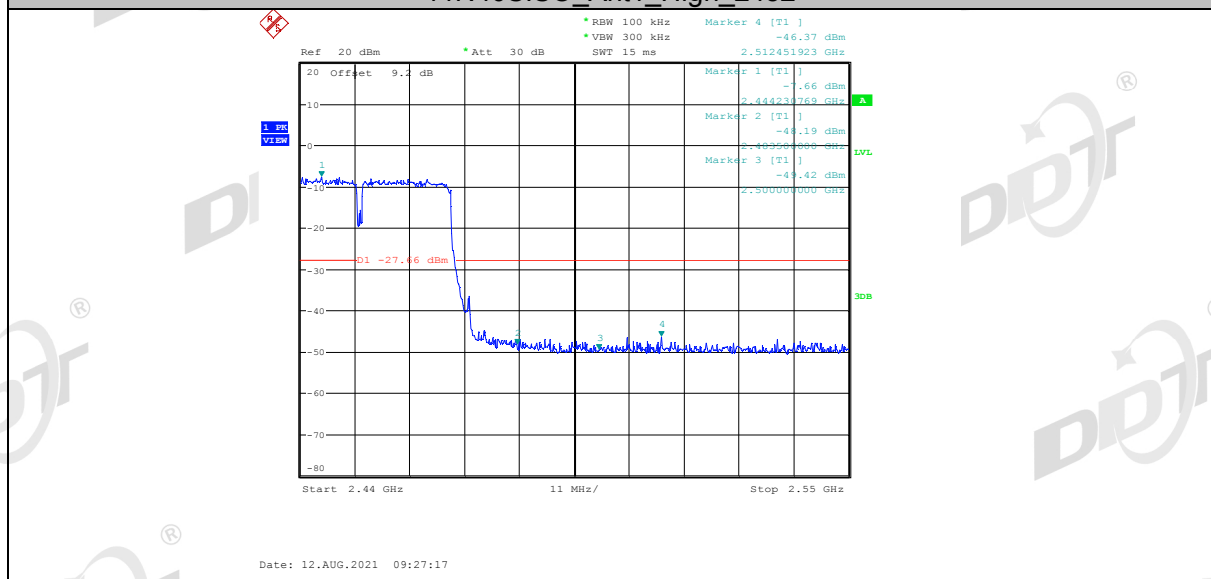
11N20SISO_Ant1_High_2462



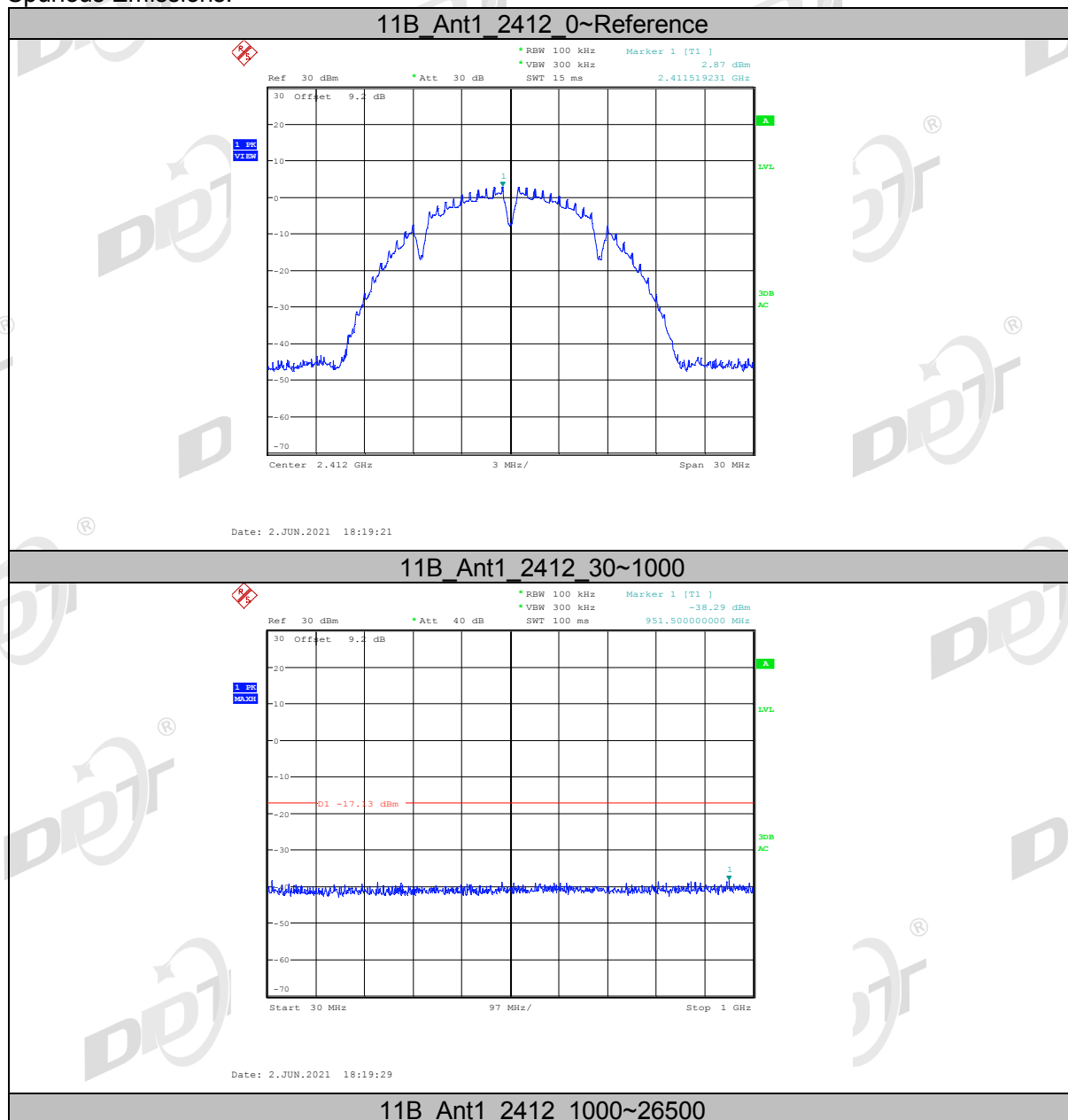
11N40SISO_Ant1_Low_2422

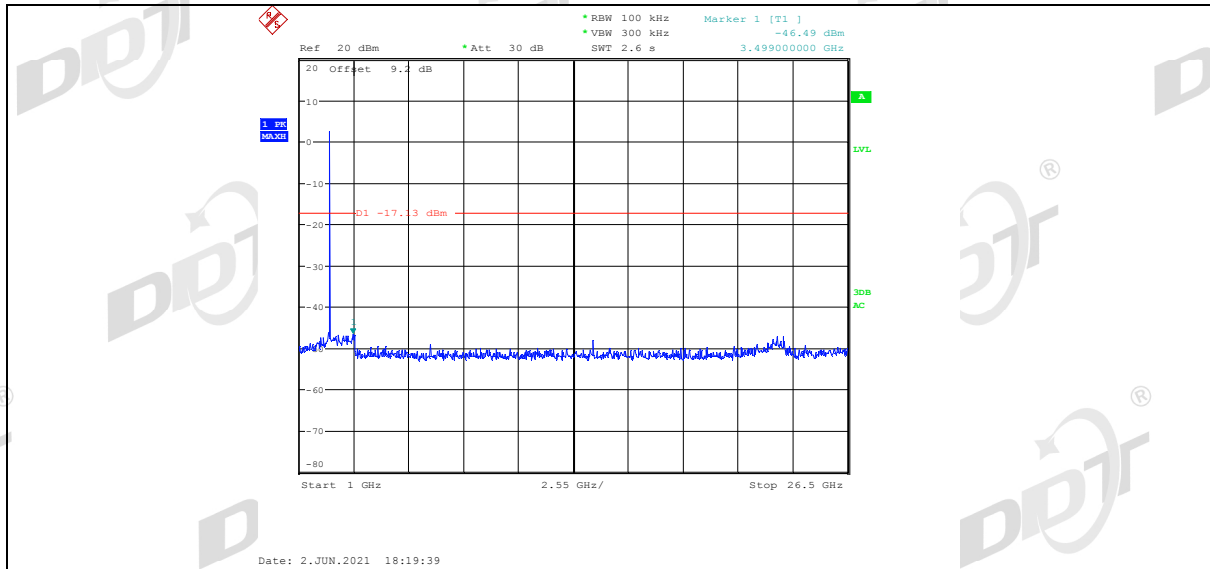


11N40SISO_Ant1_High_2452

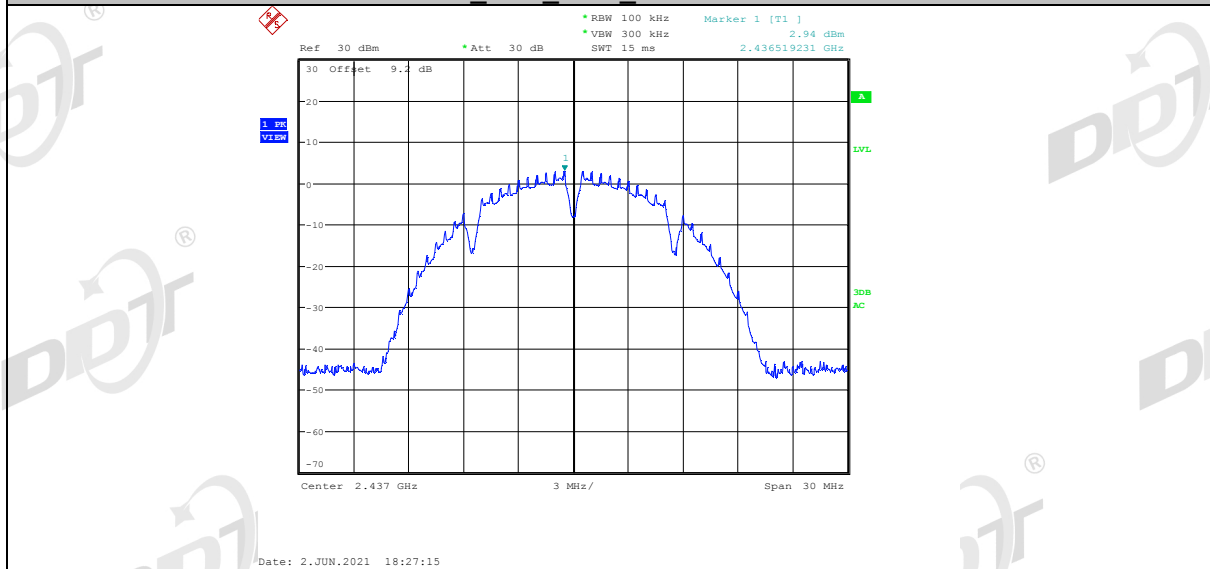


Spurious Emissions:

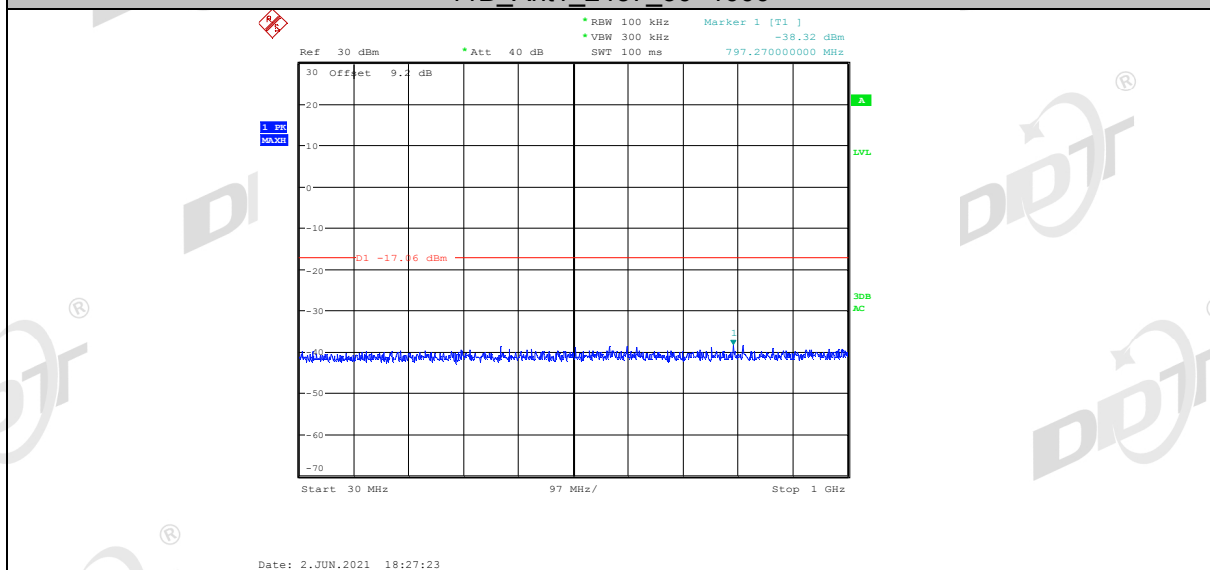




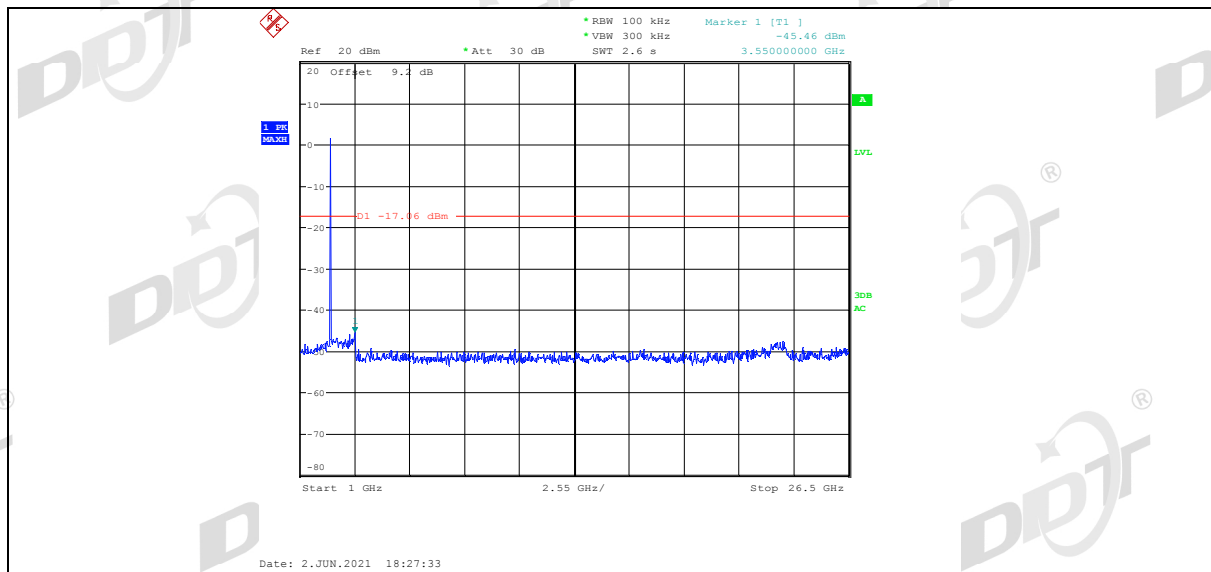
11B_Ant1_2437_0~Reference



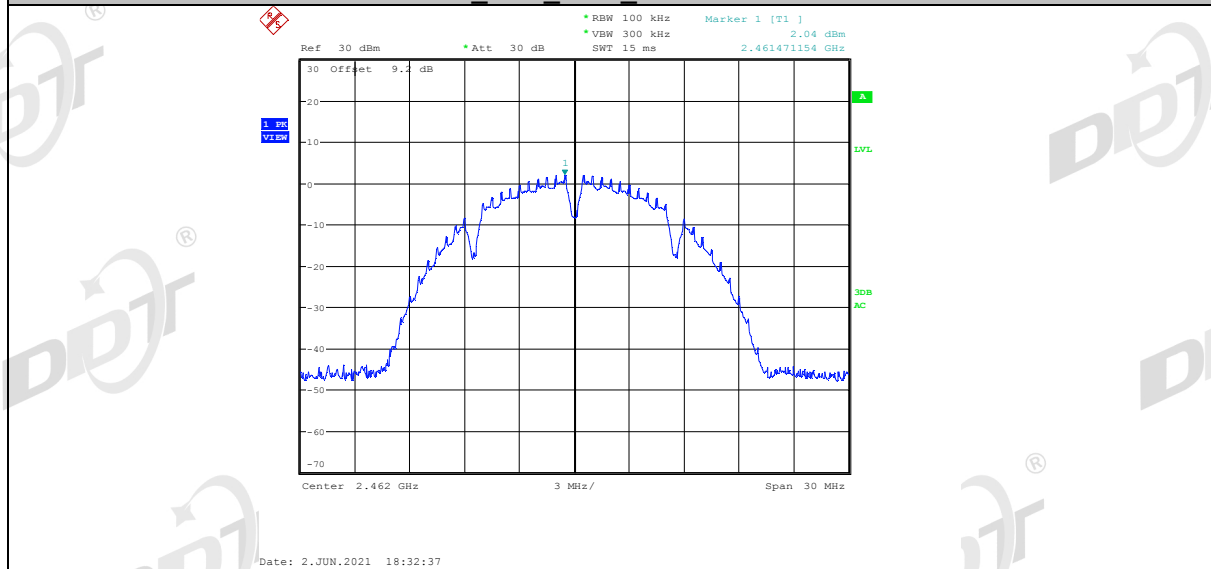
11B_Ant1_2437_30~1000



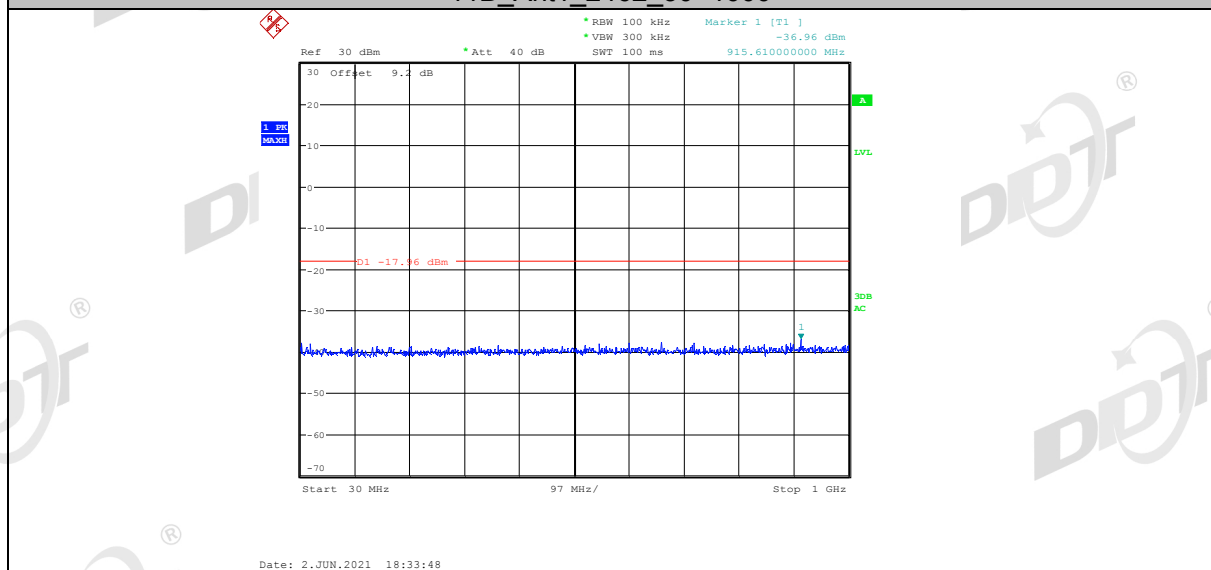
11B_Ant1_2437_1000~26500



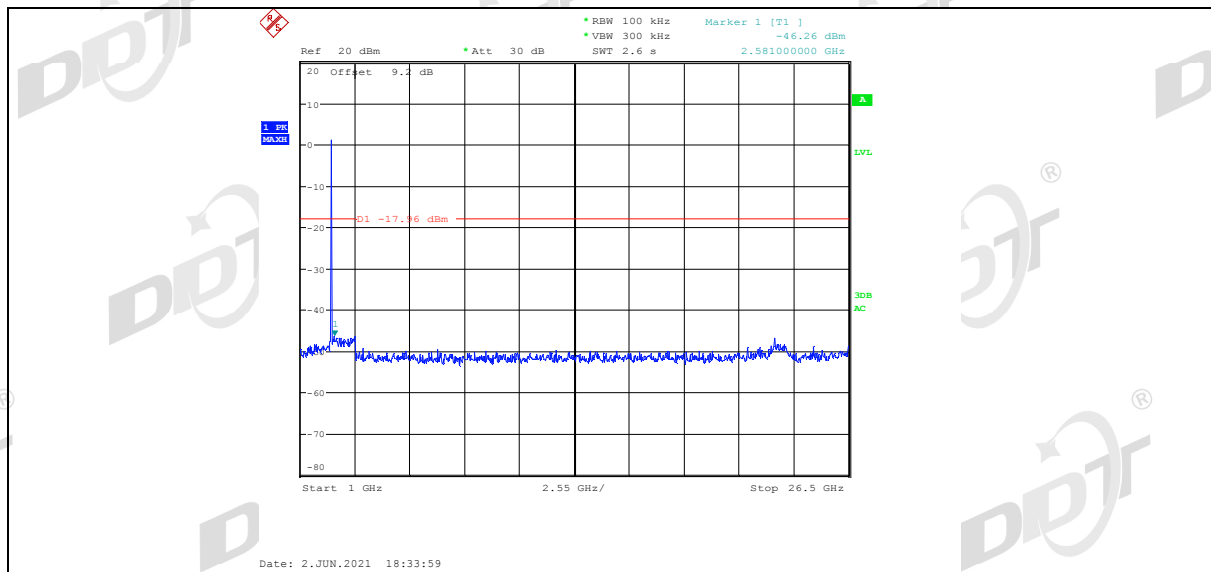
11B_Ant1_2462_0~Reference



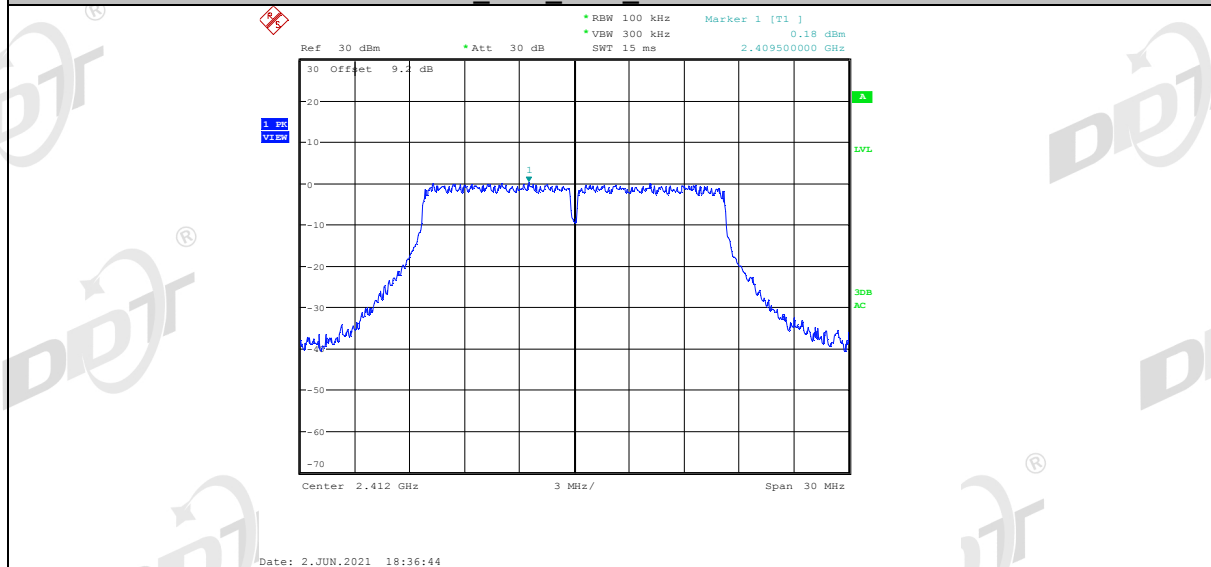
11B_Ant1_2462_30~1000



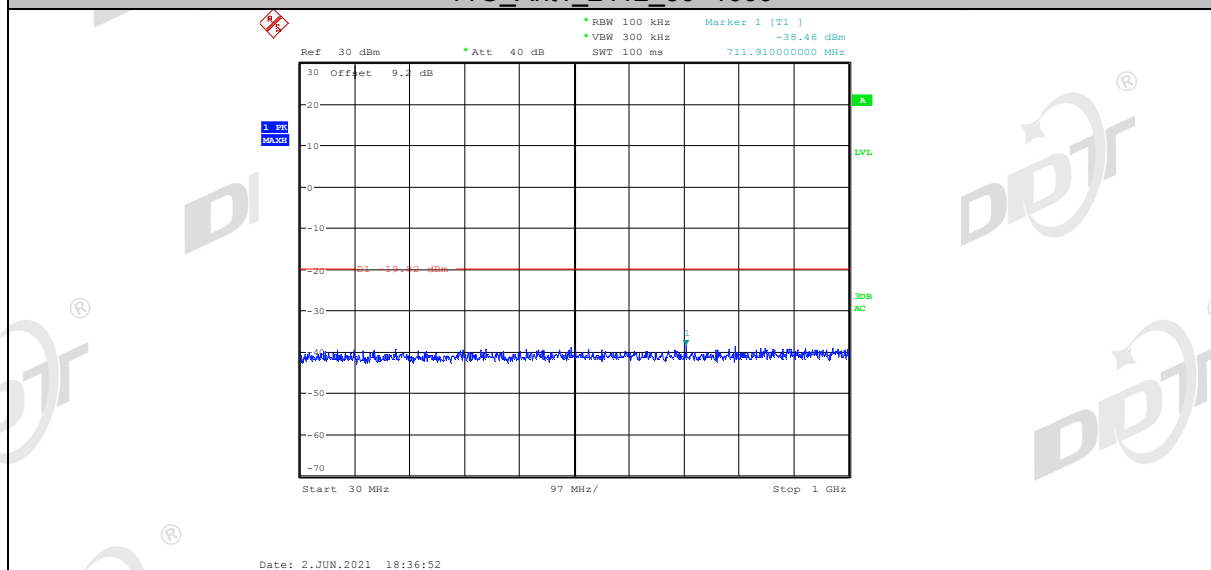
11B_Ant1_2462_1000~26500



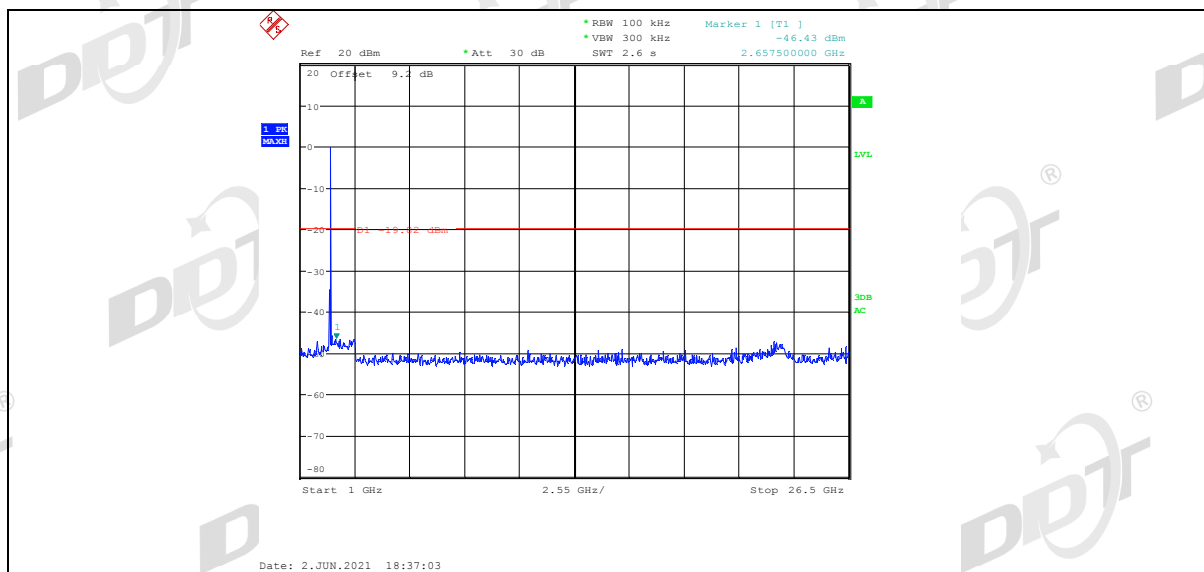
11G_Ant1_2412_0~Reference



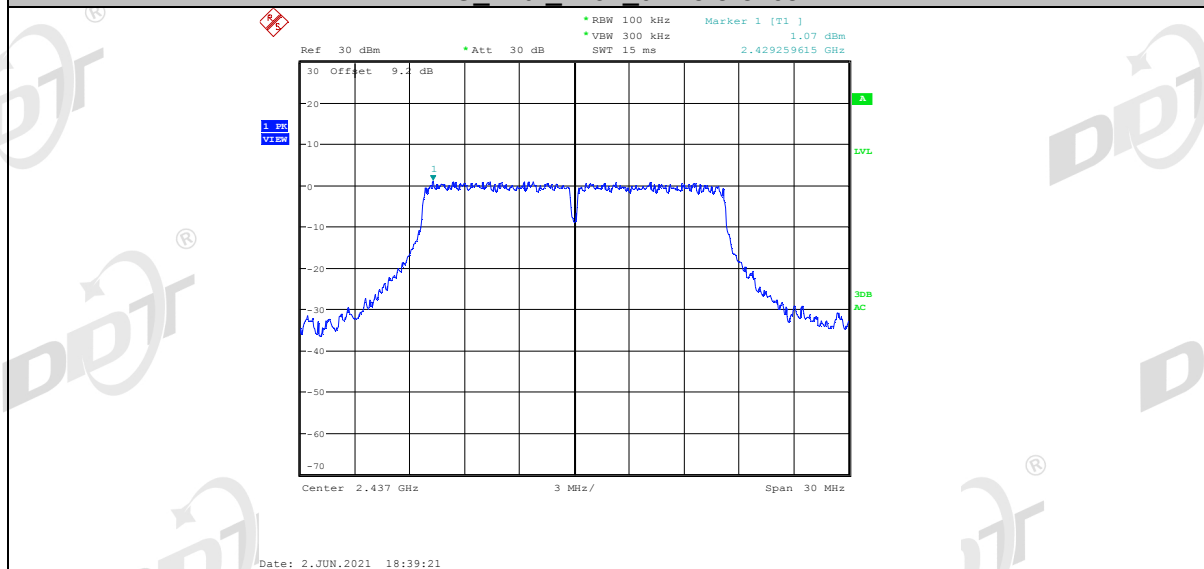
11G_Ant1_2412_30~1000



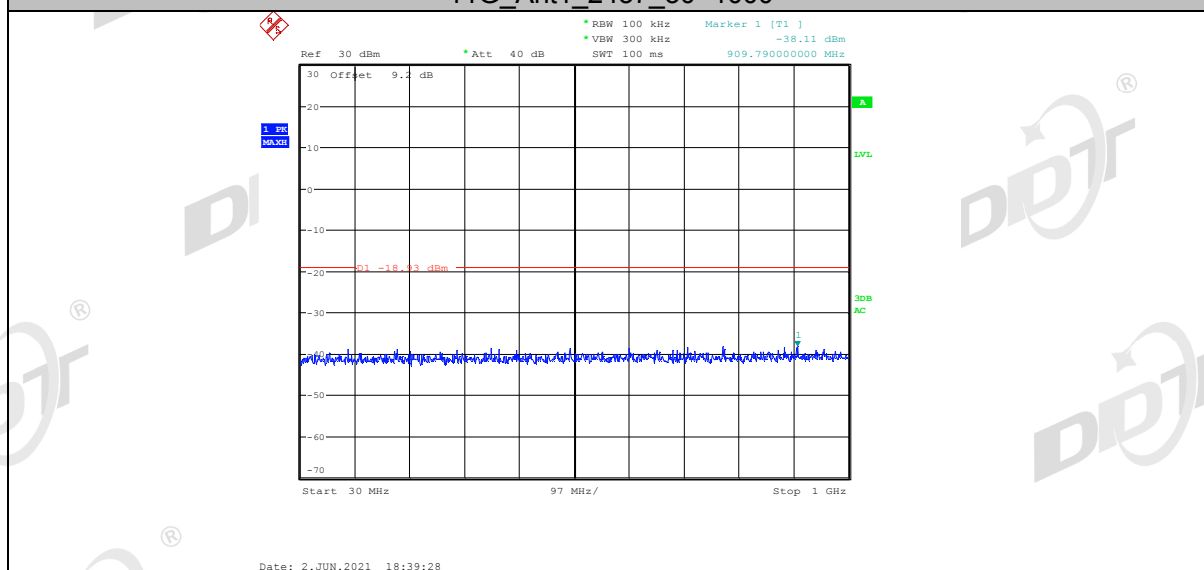
11G_Ant1_2412_1000~26500



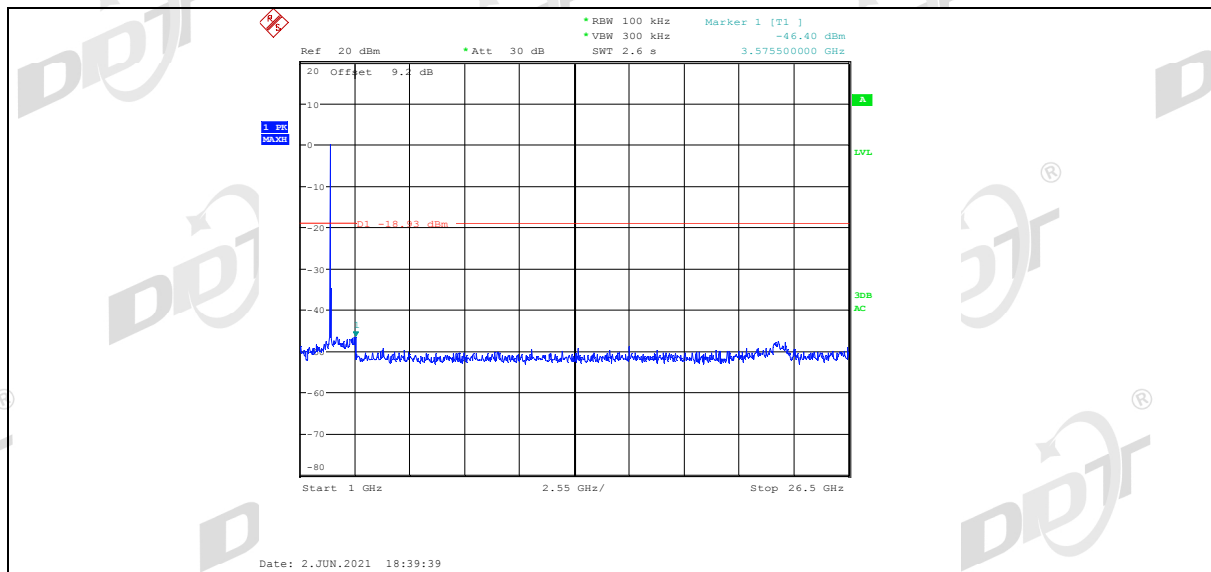
11G_Ant1_2437_0~Reference



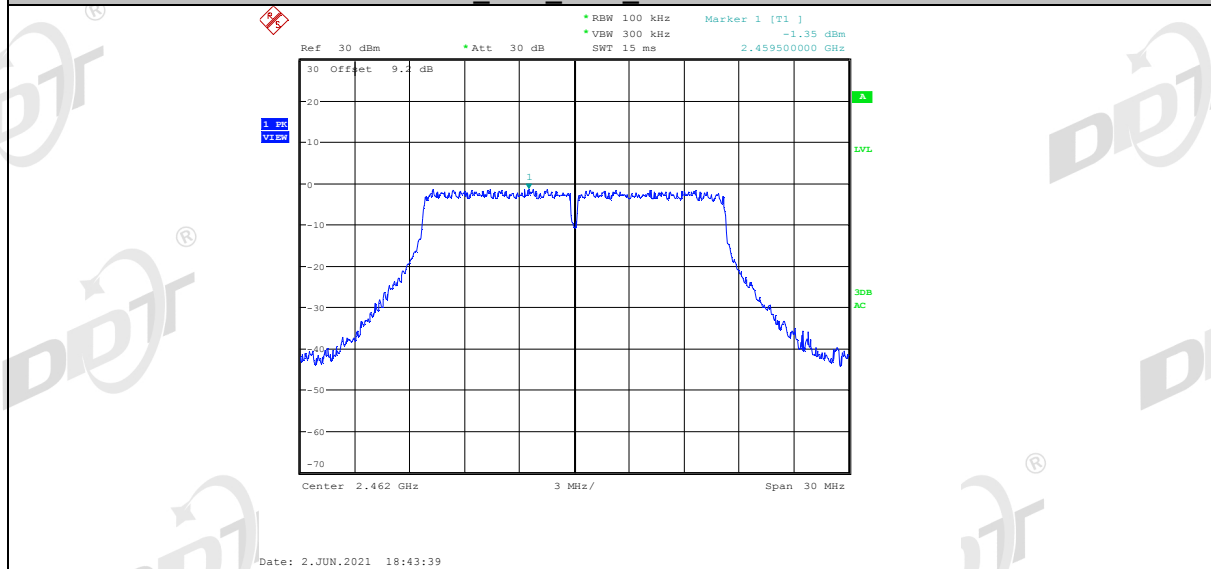
11G_Ant1_2437_30~1000



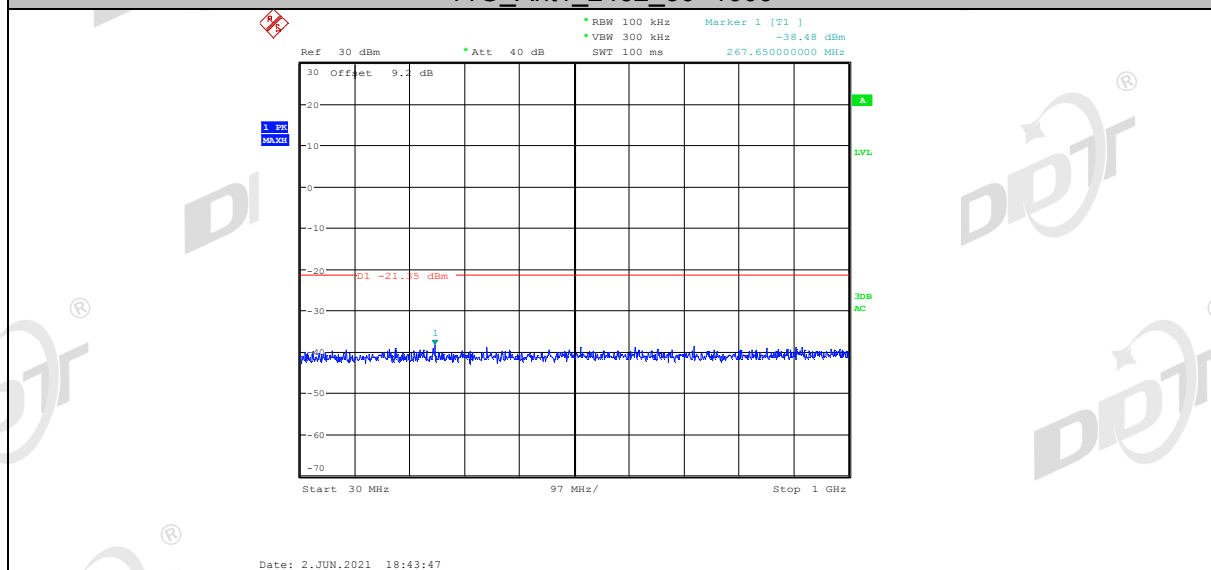
11G_Ant1_2437_1000~26500



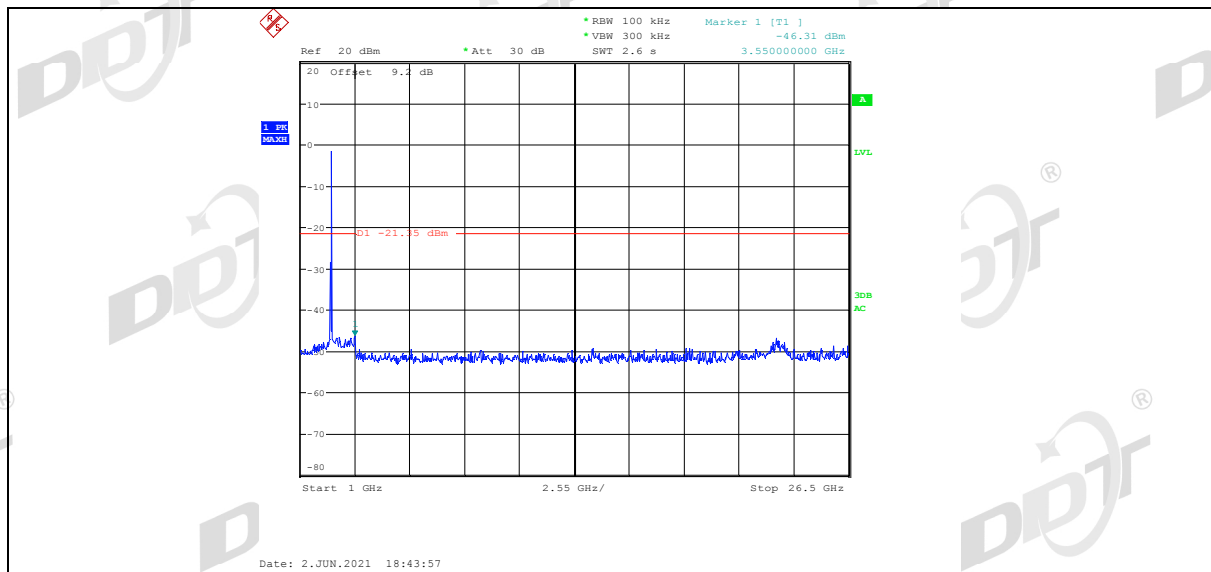
11G_Ant1_2462_0~Reference



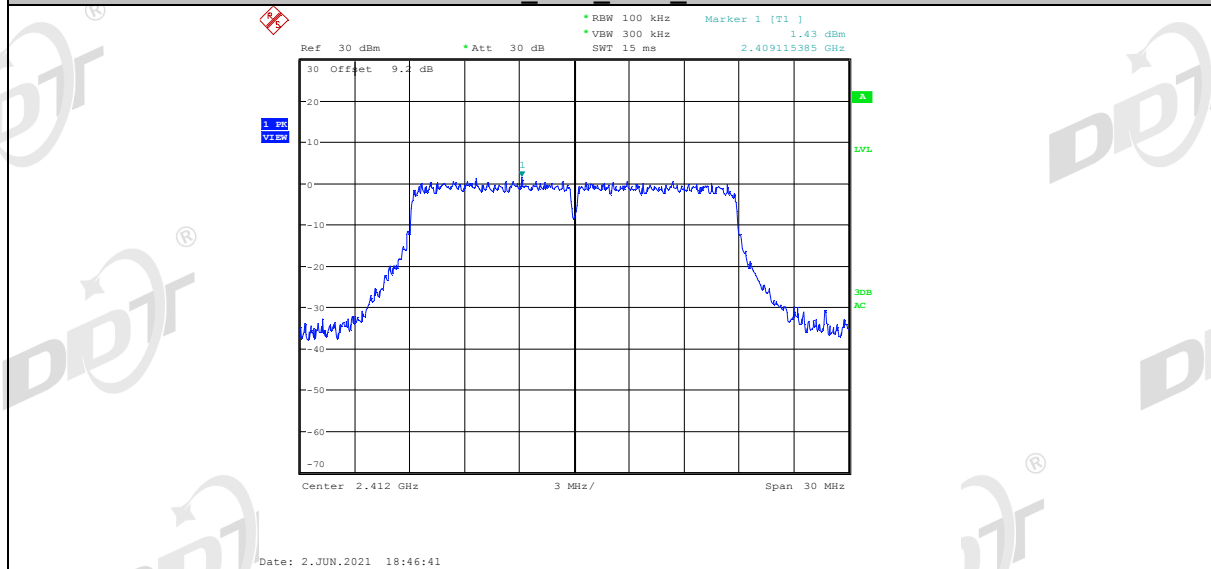
11G_Ant1_2462_30~1000



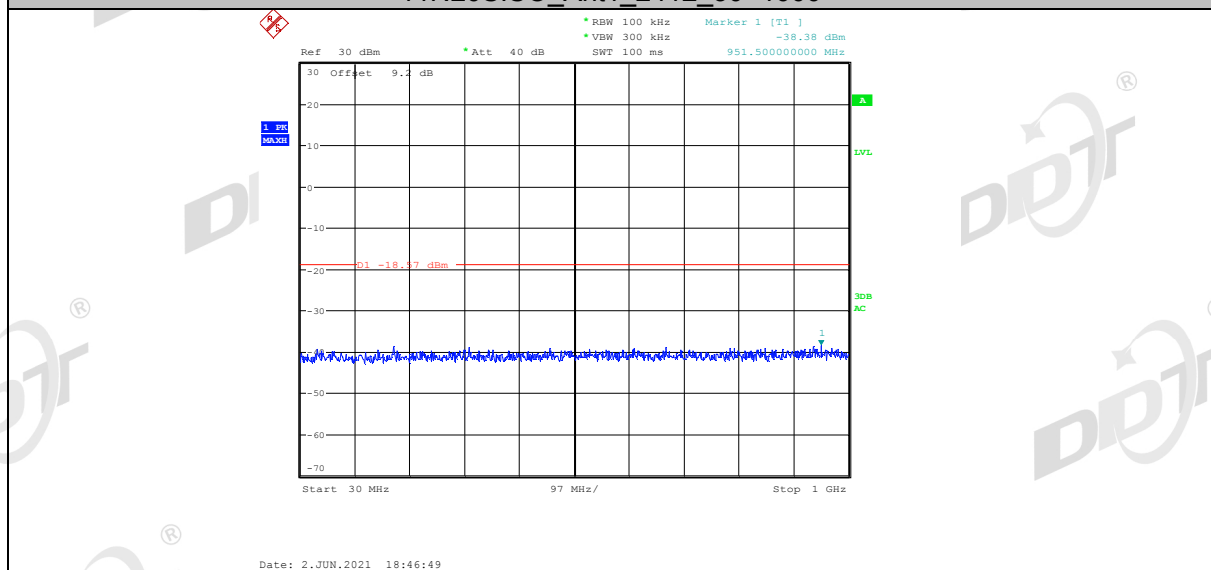
11G_Ant1_2462_1000~26500



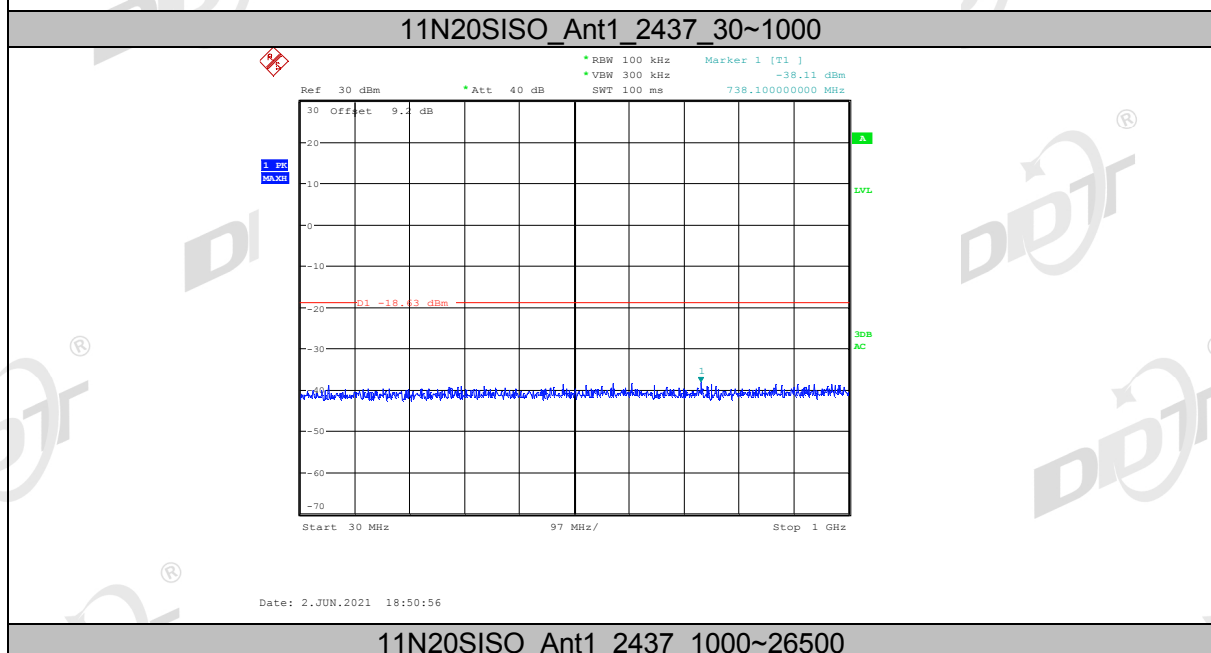
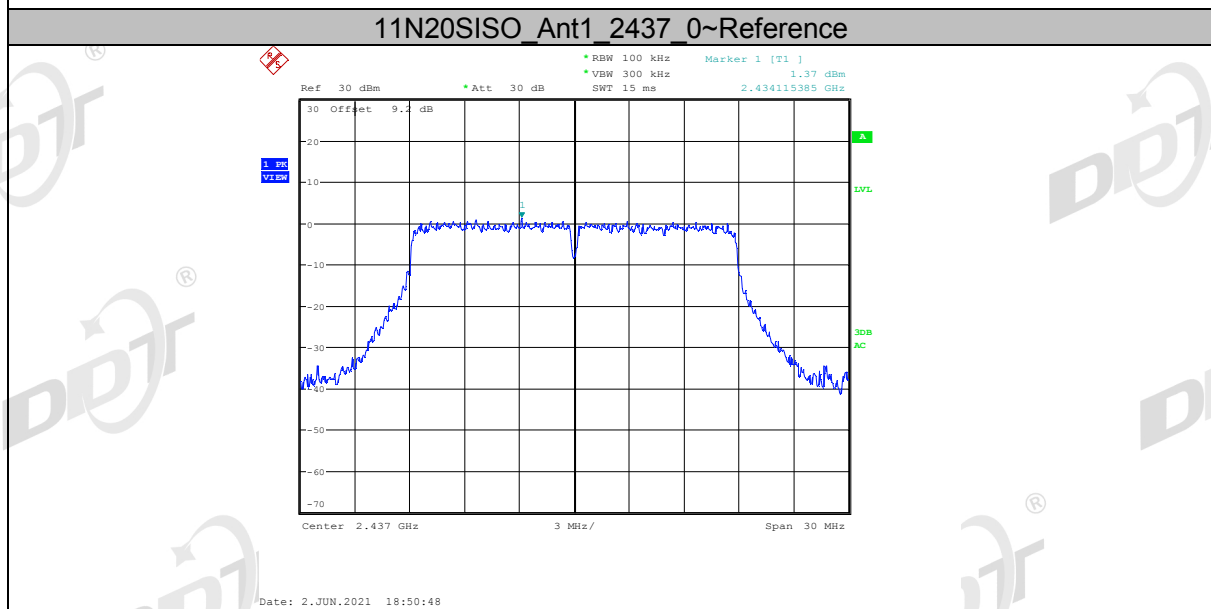
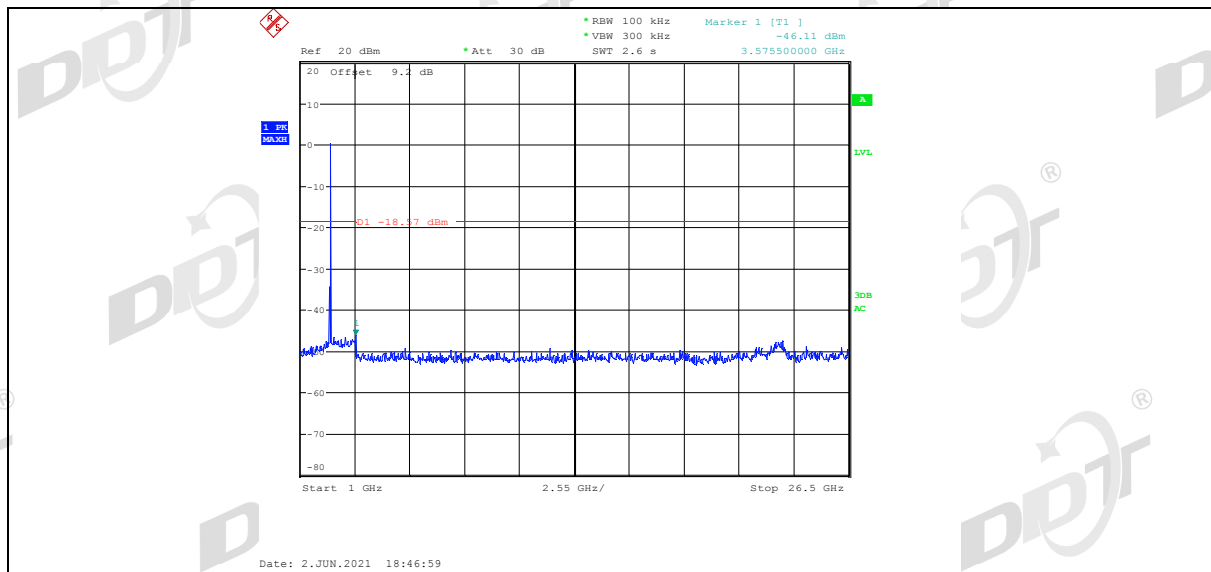
11N20SISO_Ant1_2412_0~Reference

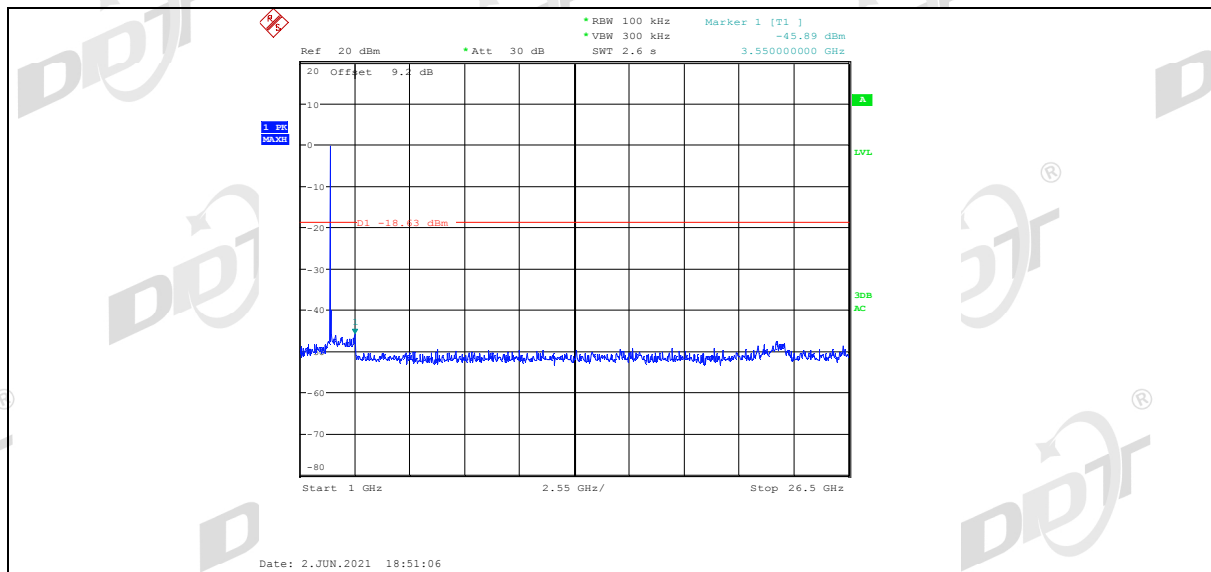


11N20SISO_Ant1_2412_30~1000

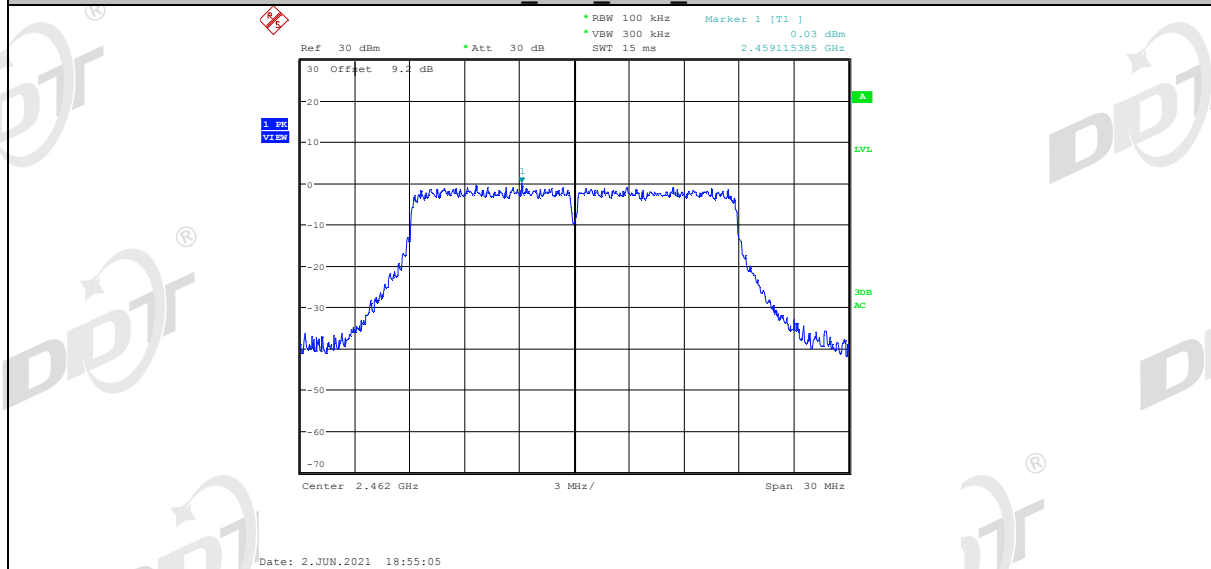


11N20SISO_Ant1_2412_1000~26500

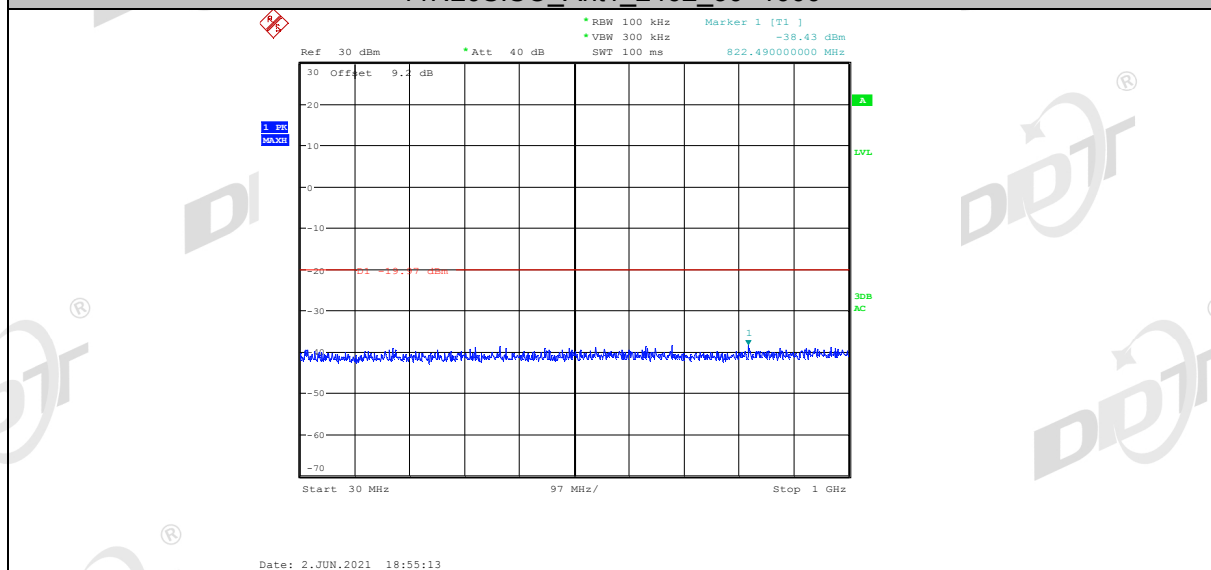




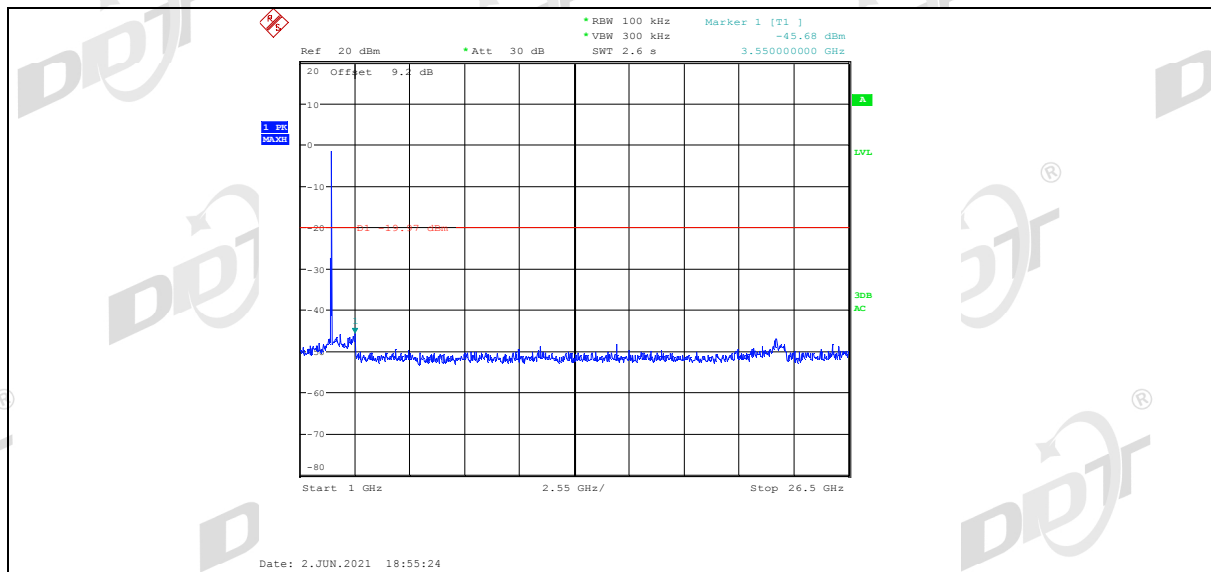
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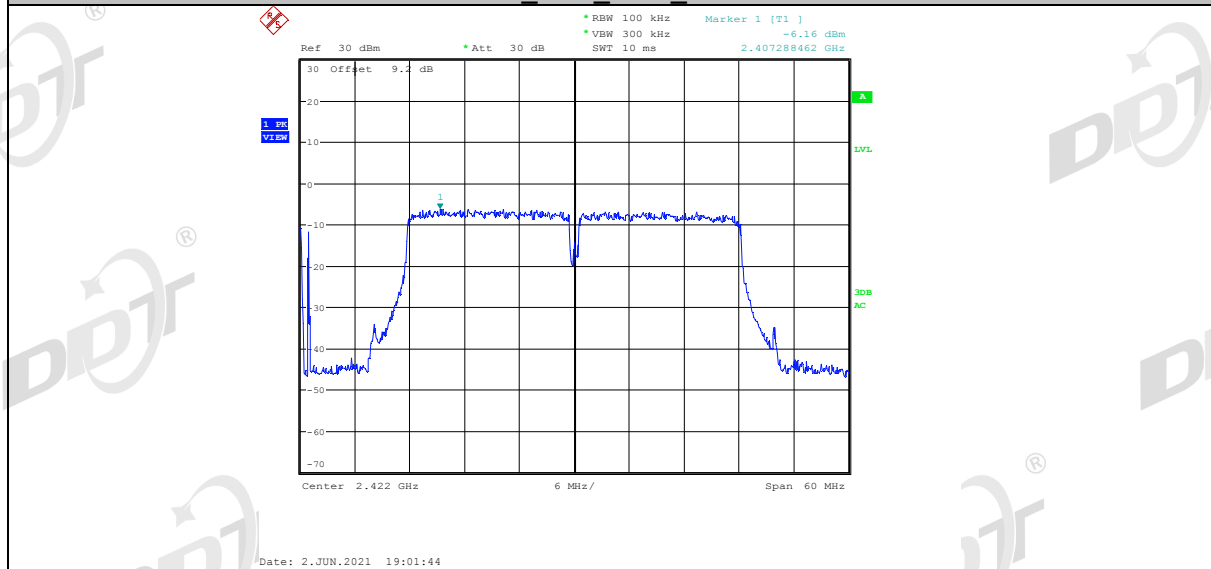
11N20SISO_Ant1_2462_30~1000



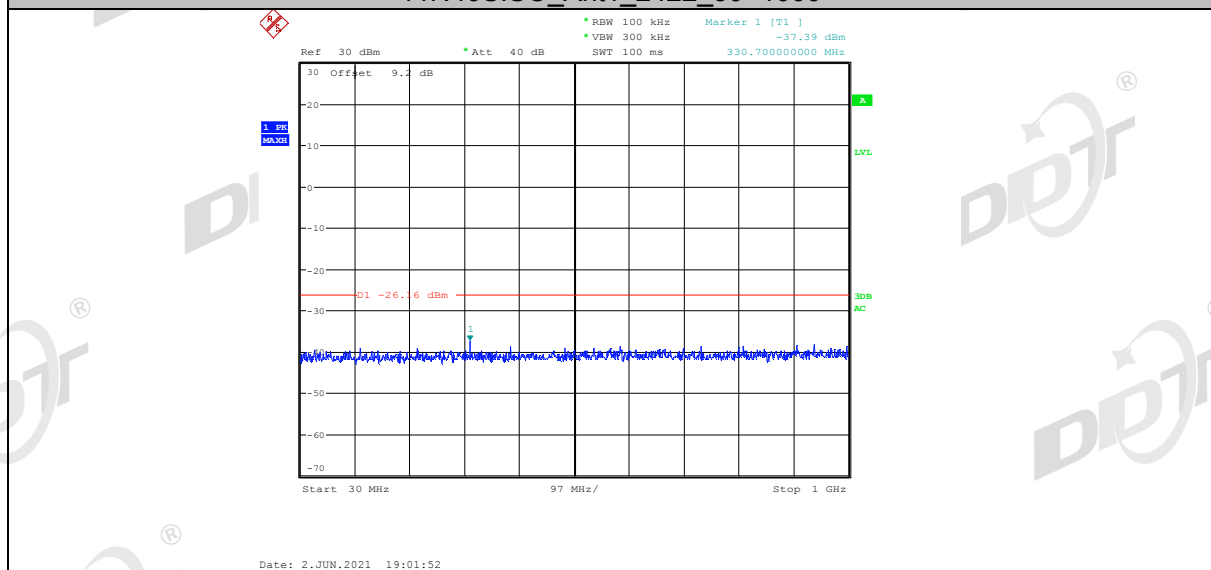
11N20SISO_Ant1_2462_1000~26500



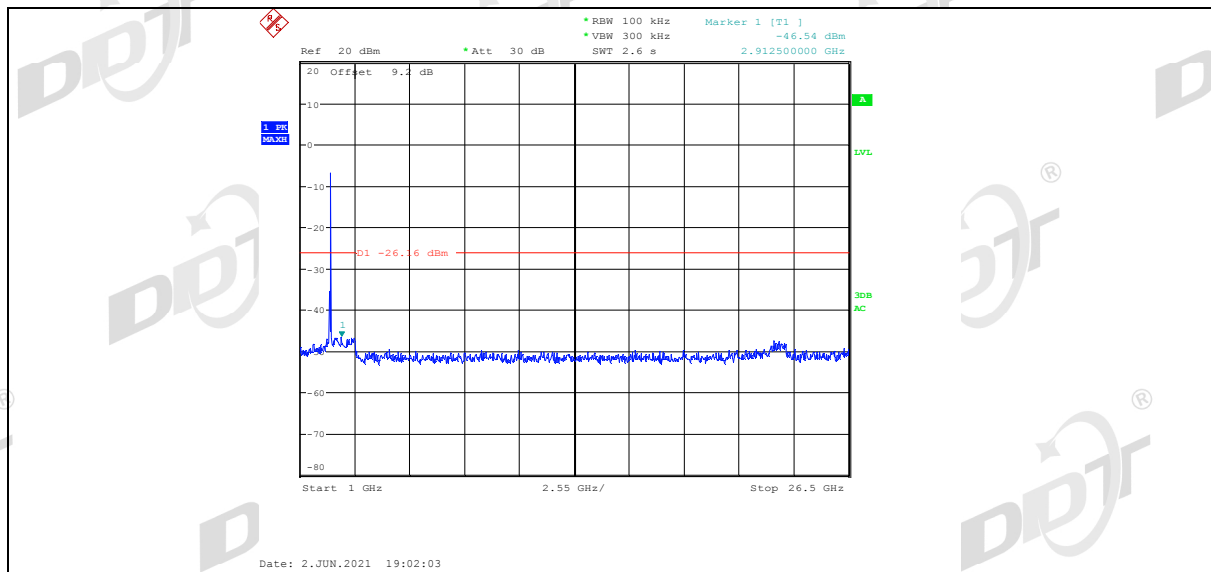
11N40SISO_Ant1_2422_0~Reference



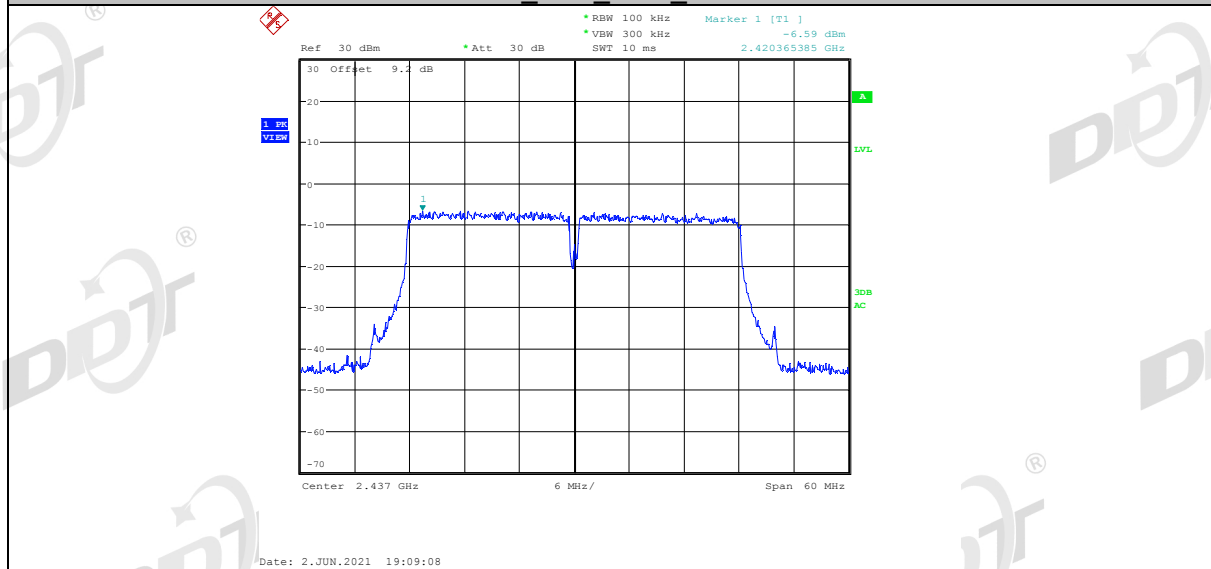
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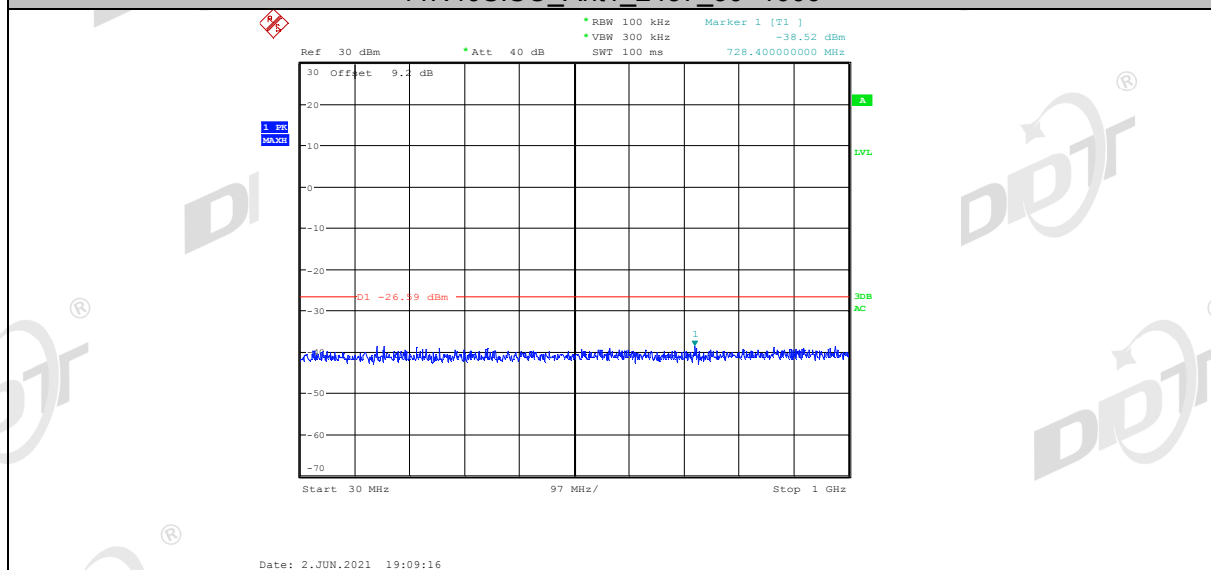
11N40SISO_Ant1_2422_1000~26500



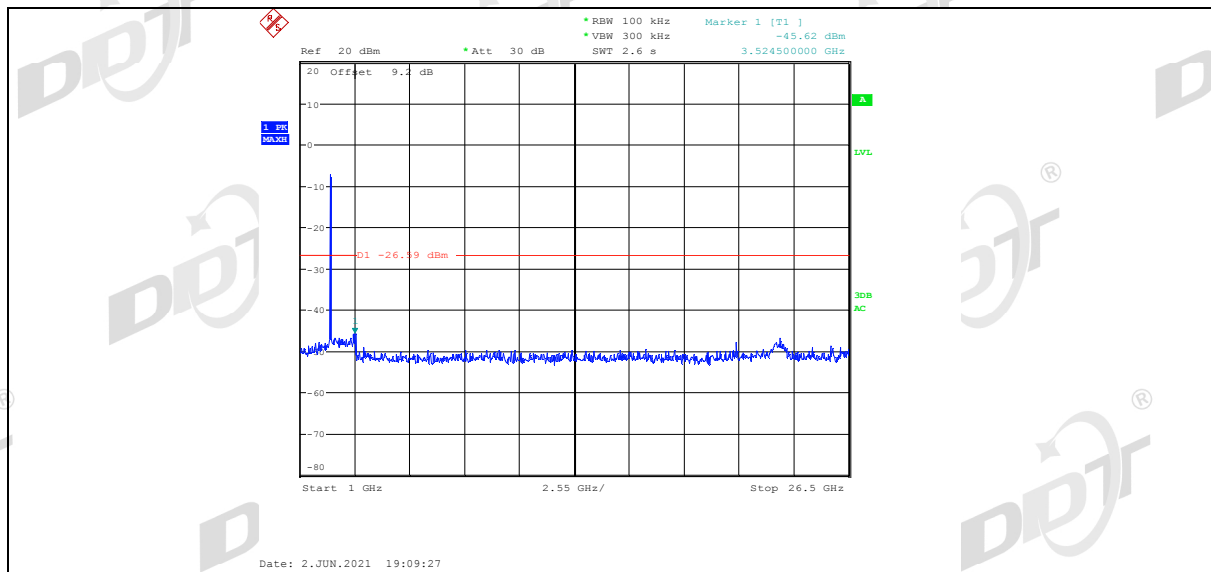
11N40SISO_Ant1_2437_0~Reference



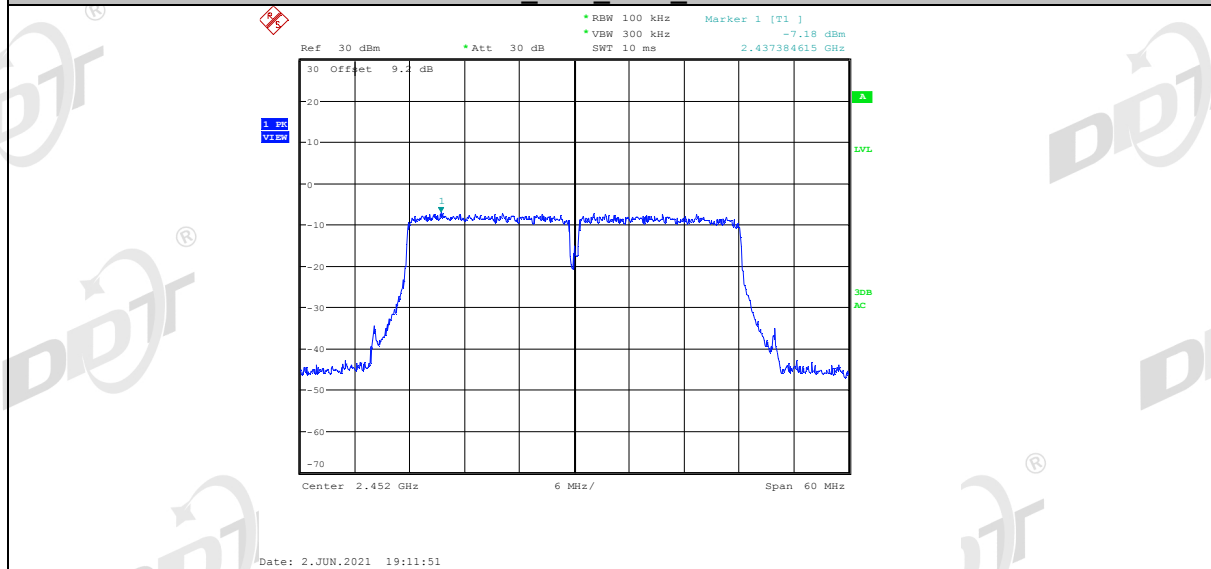
11N40SISO_Ant1_2437_30~1000



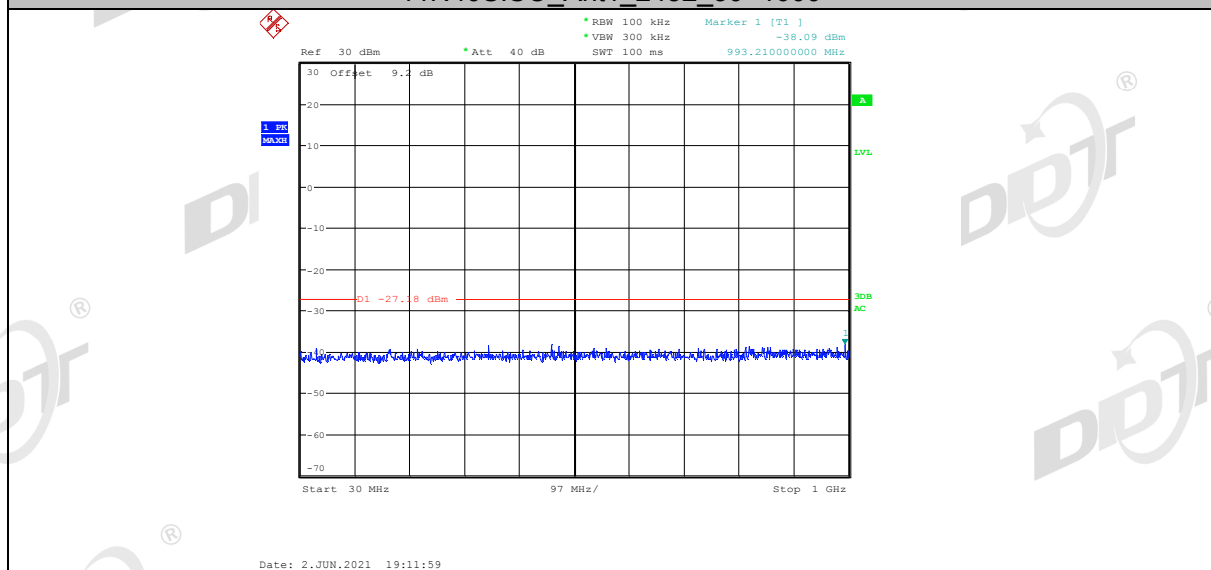
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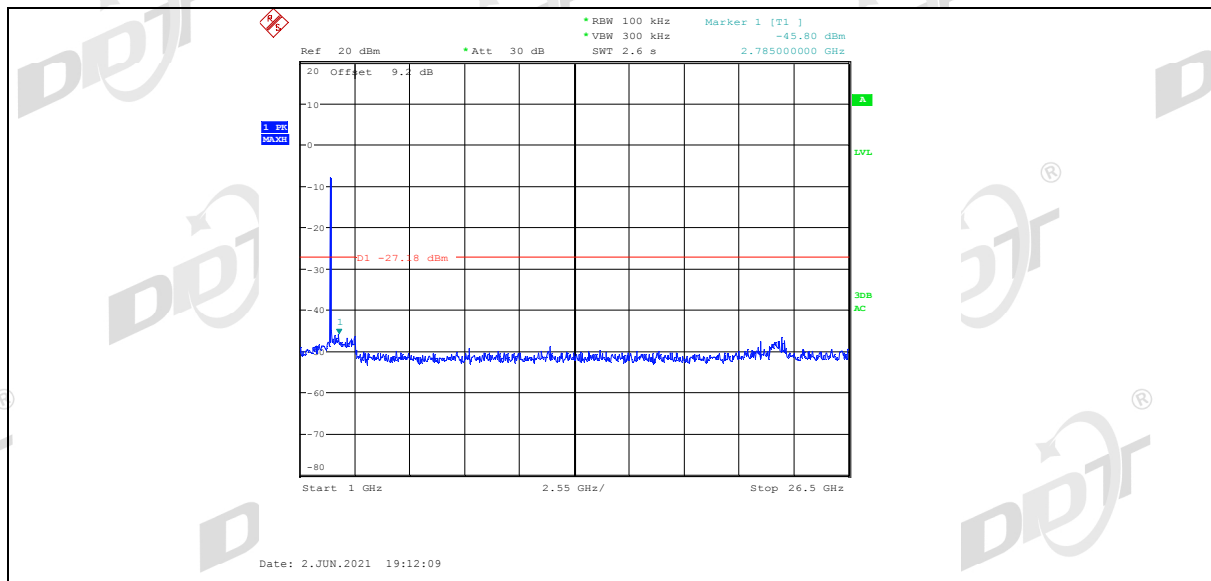
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



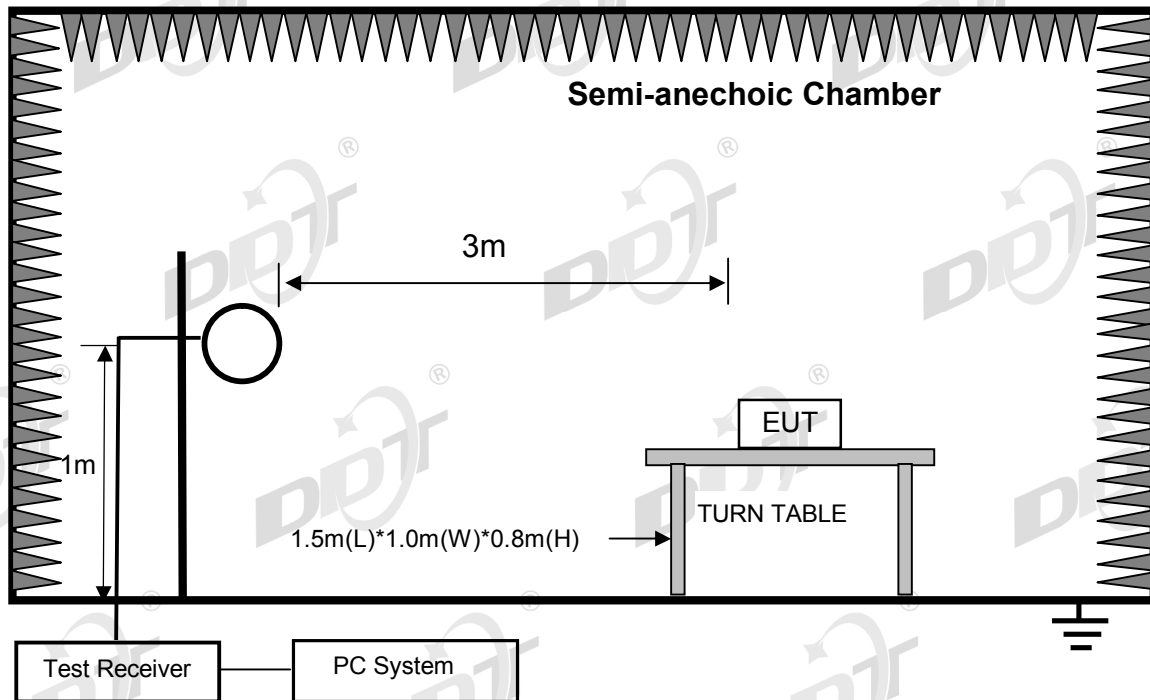
11N40SISO_Ant1_2452_1000~26500



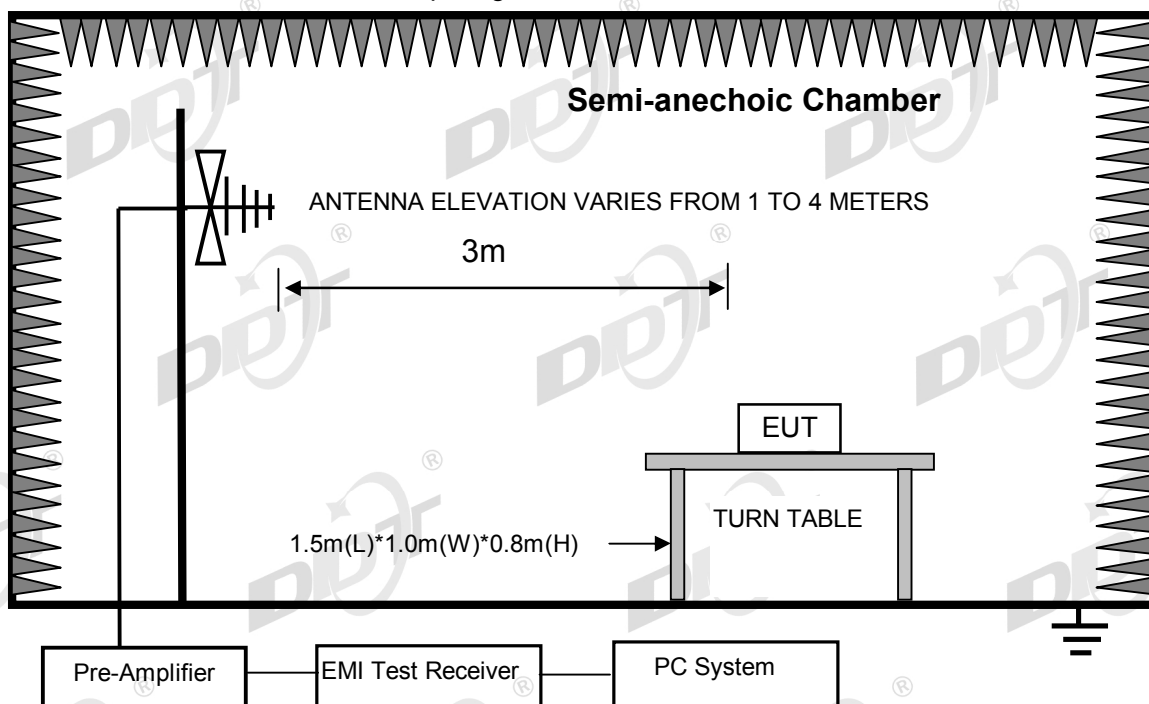
8. Radiated Spurious Emissions

8.1. Block diagram of test setup

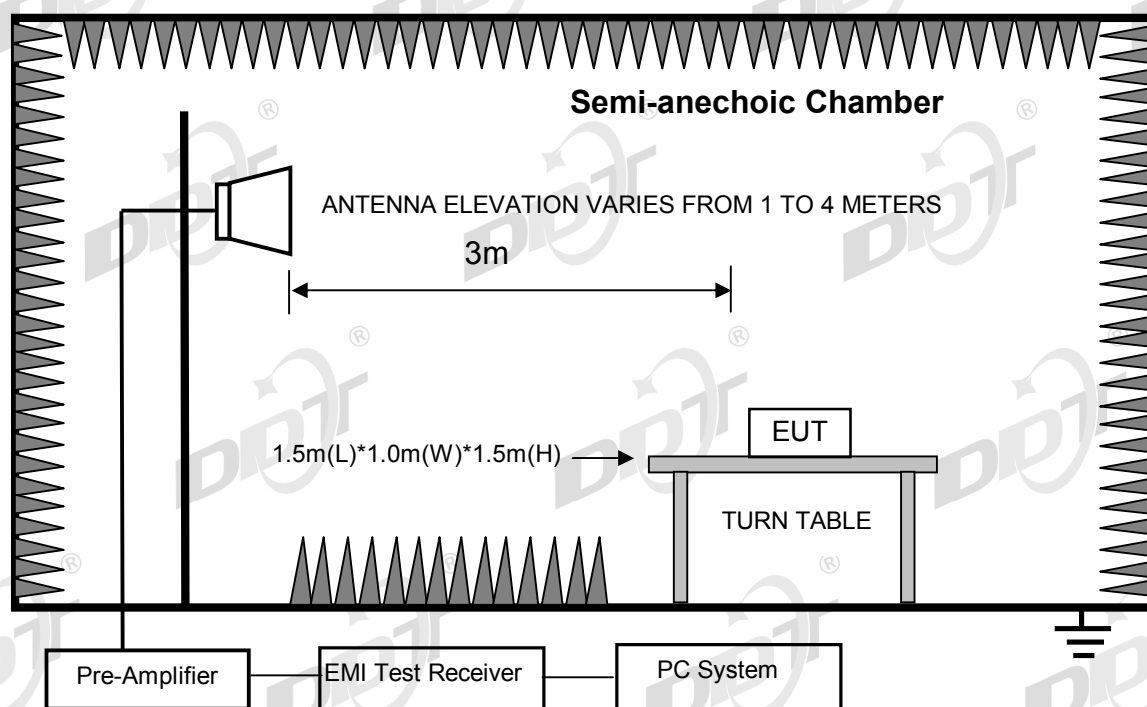
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

8.2.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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

²Above 38.6
8.2.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30m}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30m/3m)$$

8.2.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

8.3. Test procedure

(1) EUT height should be 0.8 m for below 1 GHz at a semi - anechoic chamber while EUT height should be 1.5 m for above 1 GHz at full chamber or semi - anechoic chamber ground with absorbers.

(2) The antenna used as below table.

Test frequency range	Test antenna used	Measuring distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical

axis for maximum response at each azimuth position around the EUT. And the loop antenna also is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. For measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW:

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; About

Average measure refer to ANSI C63.10:2013 clause 4.2.3.2.3 procedure.

8.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 11b, Tx CH1 mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
BELOW1G.EM6

Test Date : 2021-05-20

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

Power Supply : AC 120V/60Hz

Test Mode : Tx mode

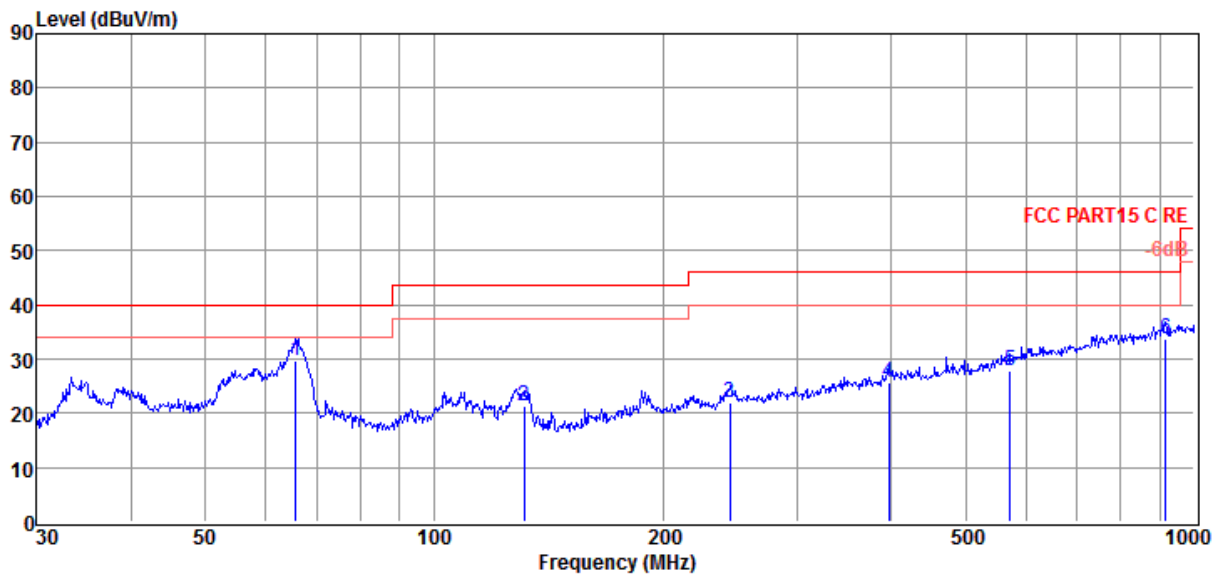
Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 VULB 9163 2#/3m/VERTICAL

Memo :

Data:

1



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	65.80	15.31	10.30	4.05	29.66	40.00	-10.34	QP	VERTICAL
2	131.30	8.96	7.60	4.64	21.20	43.50	-22.30	QP	VERTICAL
3	245.09	4.41	12.33	5.25	21.99	46.00	-24.01	QP	VERTICAL
4	396.24	4.33	15.37	5.91	25.61	46.00	-20.39	QP	VERTICAL
5	572.61	2.93	18.39	6.60	27.92	46.00	-18.08	QP	VERTICAL
6	916.07	4.04	21.93	7.75	33.72	46.00	-12.28	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
BELOW1G.EM6

Test Date : 2021-05-20

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

Power Supply : AC 120V/60Hz

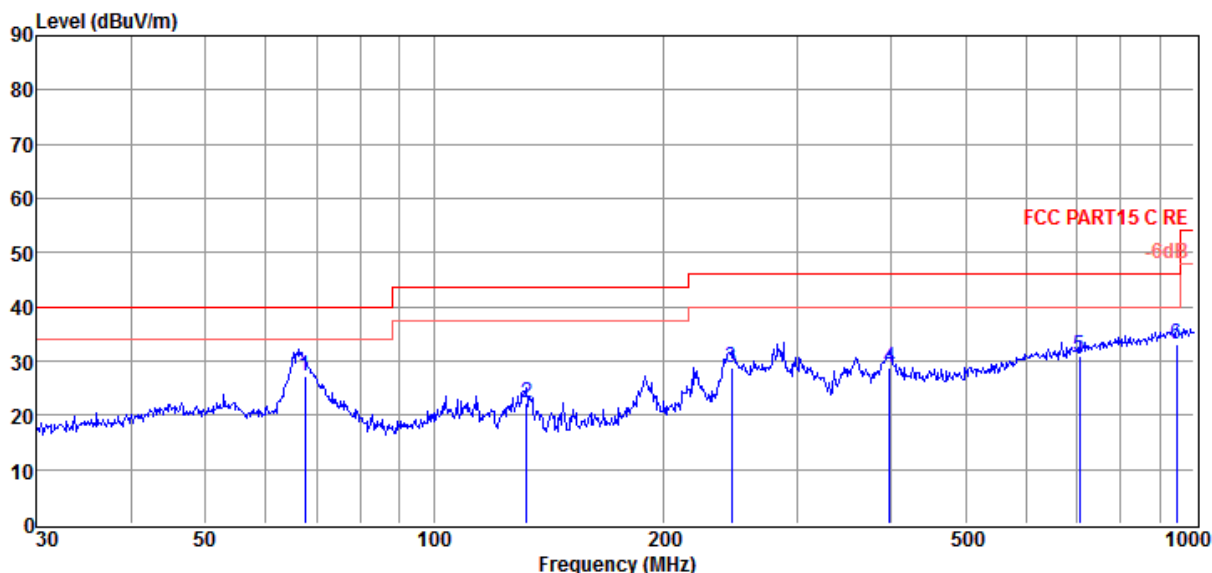
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 VULB 9163 2#/3m/HORIZONTAL

Memo :

Data:
2



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	67.68	13.72	9.56	4.08	27.36	40.00	-12.64	QP	HORIZONTAL
2	132.22	9.95	7.60	4.64	22.19	43.50	-21.31	QP	HORIZONTAL
3	245.95	11.18	12.33	5.25	28.76	46.00	-17.24	QP	HORIZONTAL
4	397.63	7.55	15.38	5.91	28.84	46.00	-17.16	QP	HORIZONTAL
5	706.70	3.88	19.85	7.08	30.81	46.00	-15.19	QP	HORIZONTAL
6	948.76	3.33	22.00	7.86	33.19	46.00	-12.81	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)

Freq. (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμV/ m)	Margin (dB)	Detector type	Polarization
CH1									
4824.00	51.12	32.35	43.33	6.82	46.96	74.00	-27.04	Peak	HORIZONTAL
7664.00	48.18	37.36	42.52	8.77	51.79	74.00	-22.21	Peak	HORIZONTAL
9585.00	46.66	38.80	42.04	9.77	53.19	74.00	-20.81	Peak	HORIZONTAL
11965.00	46.96	39.61	41.45	11.07	56.19	74.00	-17.81	Peak	HORIZONTAL
11965.00	40.13	39.61	41.45	11.07	49.36	54.00	-4.64	Average	HORIZONTAL
14481.00	47.56	41.31	42.11	12.05	58.81	74.00	-15.19	Peak	HORIZONTAL
14481.00	38.59	41.31	42.11	12.05	49.84	54.00	-4.16	Average	HORIZONTAL
17830.00	46.17	47.29	42.45	14.23	65.24	74.00	-8.76	Peak	HORIZONTAL
17830.00	30.48	47.29	42.45	14.23	49.55	54.00	-4.45	Average	HORIZONTAL
4824.00	56.54	32.35	43.33	6.82	52.38	74.00	-21.62	Peak	VERTICAL
7664.00	47.88	37.36	42.52	8.77	51.49	74.00	-22.51	Peak	VERTICAL
9925.00	46.38	38.80	42.17	10.19	53.20	74.00	-20.80	Peak	VERTICAL
11625.00	47.74	39.75	41.95	11.11	56.65	74.00	-17.35	Peak	VERTICAL
11625.00	39.77	39.75	41.95	11.11	48.68	54.00	-5.32	Average	VERTICAL
15144.00	47.62	40.17	41.79	12.88	58.88	74.00	-15.12	Peak	VERTICAL
15144.00	38.46	40.17	41.79	12.88	49.72	54.00	-4.28	Average	VERTICAL
17660.00	47.02	46.57	42.40	13.82	65.01	74.00	-8.99	Peak	VERTICAL
17660.00	30.17	46.57	42.40	13.82	48.16	54.00	-5.84	Average	VERTICAL
CH6									
4874.00	50.96	32.45	43.29	6.88	47.00	74.00	-27.00	Peak	HORIZONTAL
7596.00	46.19	37.25	42.57	8.80	49.67	74.00	-24.33	Peak	HORIZONTAL
9636.00	45.64	38.80	42.06	9.83	52.21	74.00	-21.79	Peak	HORIZONTAL
12866.00	45.48	39.49	42.79	11.41	53.59	74.00	-20.41	Peak	HORIZONTAL
15824.00	43.37	39.21	42.20	12.56	52.94	74.00	-21.06	Peak	HORIZONTAL
17830.00	42.35	47.29	42.45	14.23	61.42	74.00	-12.58	Peak	HORIZONTAL
17830.00	30.21	47.29	42.45	14.23	49.28	54.00	-4.72	Average	HORIZONTAL
4874.00	54.19	32.45	43.29	6.88	50.23	74.00	-23.77	Peak	VERTICAL
7494.00	46.82	37.09	42.64	8.83	50.10	74.00	-23.90	Peak	VERTICAL
9636.00	46.08	38.80	42.06	9.83	52.65	74.00	-21.35	Peak	VERTICAL
13036.00	45.02	39.78	42.98	11.19	53.01	74.00	-20.99	Peak	VERTICAL
16045.00	43.47	39.19	42.30	12.70	53.06	74.00	-20.94	Peak	VERTICAL
17932.00	42.18	47.71	42.48	14.47	61.88	74.00	-12.12	Peak	VERTICAL
17932.00	30.12	47.71	42.48	14.47	49.82	54.00	-4.18	Average	VERTICAL
CH11									
4924.00	49.77	32.55	43.25	6.95	46.02	74.00	-27.98	Peak	HORIZONTAL
7494.00	46.97	37.09	42.64	8.83	50.25	74.00	-23.75	Peak	HORIZONTAL
10299.00	45.74	39.28	42.42	10.33	52.93	74.00	-21.07	Peak	HORIZONTAL
12611.00	45.92	39.08	42.39	11.89	54.50	74.00	-19.50	Peak	HORIZONTAL
12611.00	39.06	39.08	42.39	11.89	47.64	54.00	-6.36	Average	HORIZONTAL
15144.00	44.81	40.17	41.79	12.88	56.07	74.00	-17.93	Peak	HORIZONTAL
15144.00	38.46	40.17	41.79	12.88	49.72	54.00	-4.28	Average	HORIZONTAL
17915.00	41.21	47.64	42.48	14.43	60.80	74.00	-13.20	Peak	HORIZONTAL
17915.00	30.08	47.64	42.48	14.43	49.67	54.00	-4.33	Average	HORIZONTAL

4924.00	52.26	32.55	43.25	6.95	48.51	74.00	-25.49	Peak	VERTICAL
7494.00	46.23	37.09	42.64	8.83	49.51	74.00	-24.49	Peak	VERTICAL
10129.00	45.57	39.01	42.29	10.30	52.59	74.00	-21.41	Peak	VERTICAL
13206.00	47.03	40.15	42.89	11.33	55.62	74.00	-18.38	Peak	VERTICAL
13206.00	38.16	40.15	42.89	11.33	46.75	54.00	-7.25	Average	VERTICAL
14889.00	43.36	40.60	41.79	12.86	55.03	74.00	-18.97	Peak	VERTICAL
14889.00	38.65	40.60	41.79	12.86	50.32	54.00	-3.68	Average	VERTICAL
17881.00	42.52	47.50	42.47	14.35	61.90	74.00	-12.10	Peak	VERTICAL
17881.00	30.28	47.50	42.47	14.35	49.66	54.00	-4.34	Average	VERTICAL
Result: Pass									

Note: 1.30 MHz ~ 25 GHz: (Scan with 11b mode, 11g mode, 11n HT20 and 11n HT40 mode, the worst case is 11b mode)

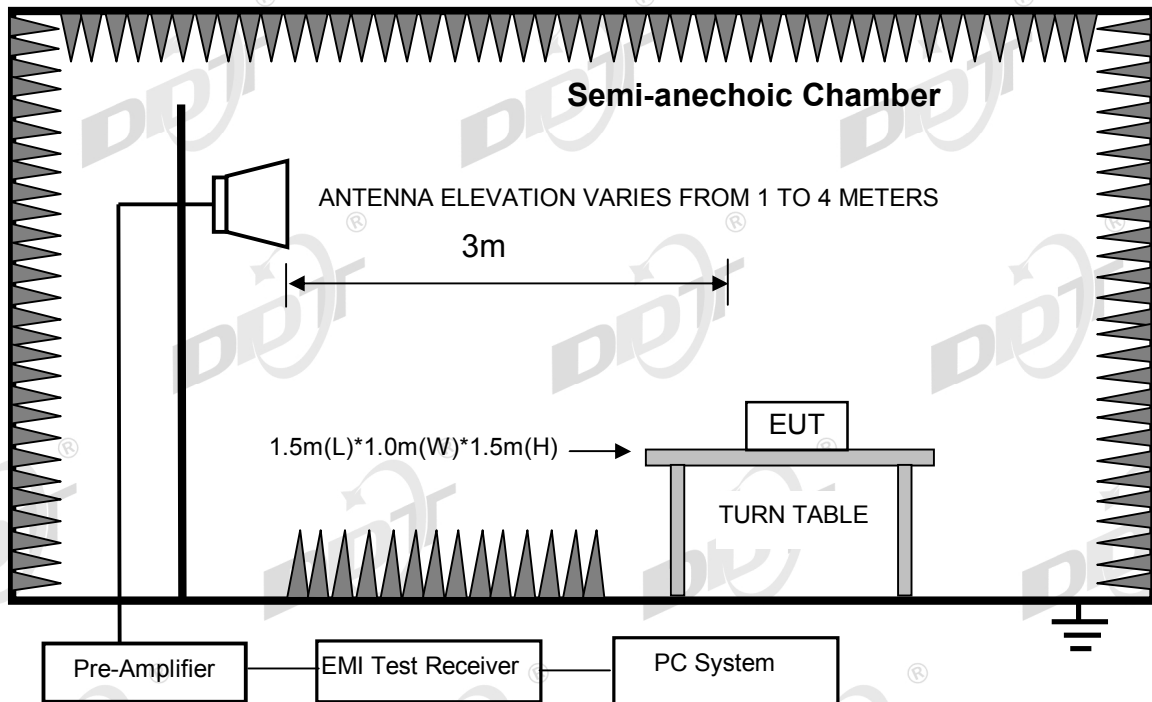
2. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit. All other emissions are attenuated 20 dB below the limits, so does not record.

9. Radiated Band Edge Compliance

9.1. Block diagram of test setup



9.2. Limit

All restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400 MHz to 2483.5 MHz shall be at least 20 dB below the fundamental emissions or comply with FCC 15.209 limits.

9.3. Test procedure

Same with clause 8.3 except change investigated frequency range from 2310 MHz to 2440 MHz and 2440 MHz to 2500 MHz, 2310 MHz to 2460 MHz and 2420 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

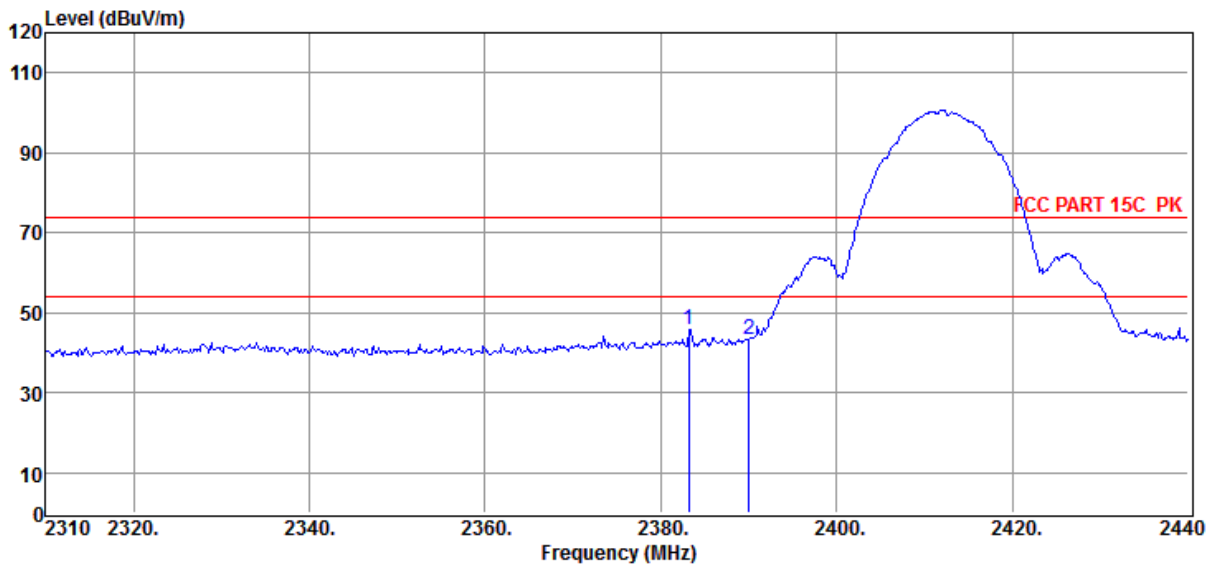
9.4. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6**Test Date** : 2021-06-01**Tested By** : Zora**EUT** : Network Camera**Model Number** : JVS-N95-X3**Power Supply** : AC 120V/60Hz**Test Mode** : Tx mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL**Memo** : 11B 2412

Data: 15



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2383.19	56.41	27.88	43.13	4.79	45.95	74.00	-28.05	Peak	HORIZONTAL
2	2390.00	53.86	27.89	43.14	4.80	43.41	74.00	-30.59	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

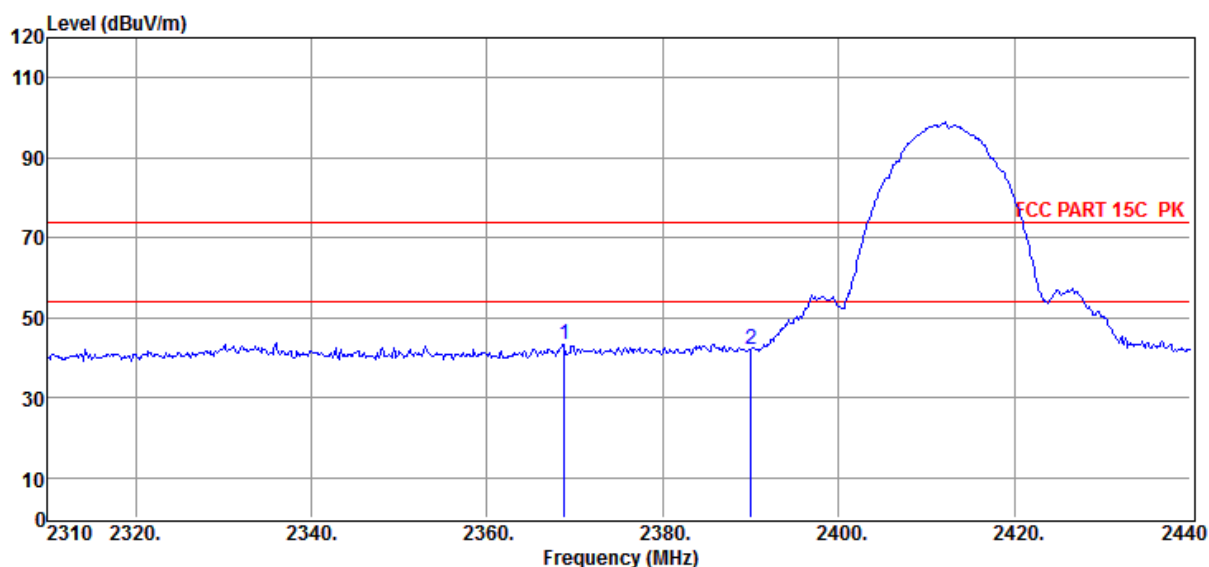
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6**Test Date** : 2021-06-01**Tested By** : Zora**EUT** : Network Camera**Model Number** : JVS-N95-X3**Power Supply** : AC 120V/60Hz**Test Mode** : Tx mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL**Memo** : 11B 2412

Data: 16



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2368.76	53.81	27.87	43.12	4.78	43.34	74.00	-30.66	Peak	VERTICAL
2	2390.00	52.38	27.89	43.14	4.80	41.93	74.00	-32.07	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

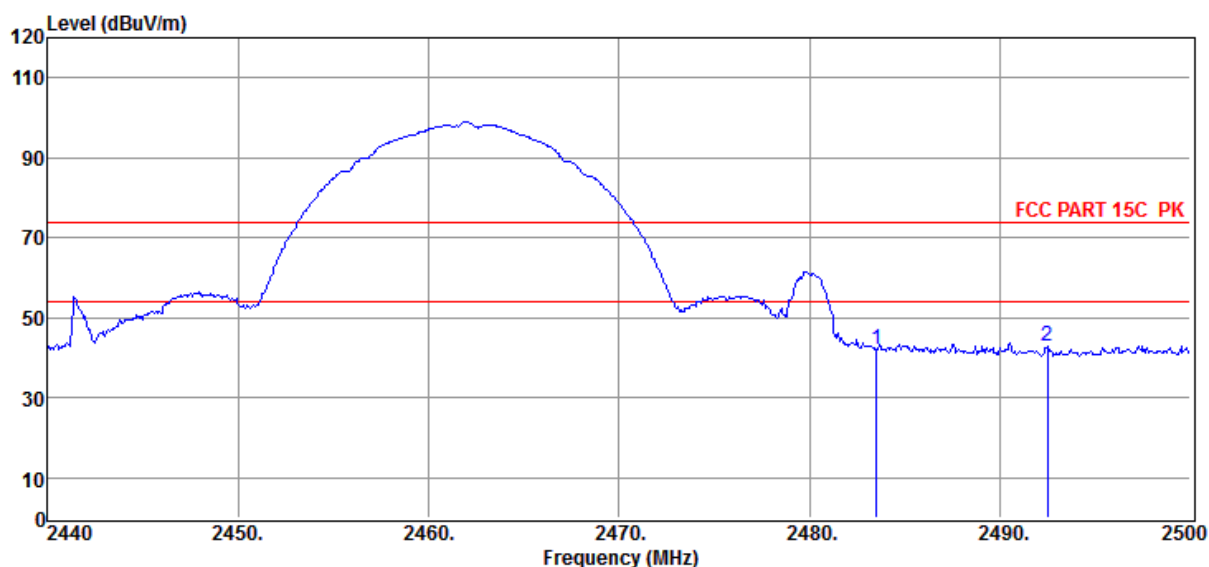
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6**Test Date** : 2021-06-01**Tested By** : Zora**EUT** : Network Camera**Model Number** : JVS-N95-X3**Power Supply** : AC 120V/60Hz**Test Mode** : Tx mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL**Memo** : 11B 2462

Data: 17



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	52.39	27.98	43.23	4.90	42.04	74.00	-31.96	Peak	VERTICAL
2	2492.50	53.19	27.99	43.24	4.91	42.85	74.00	-31.15	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

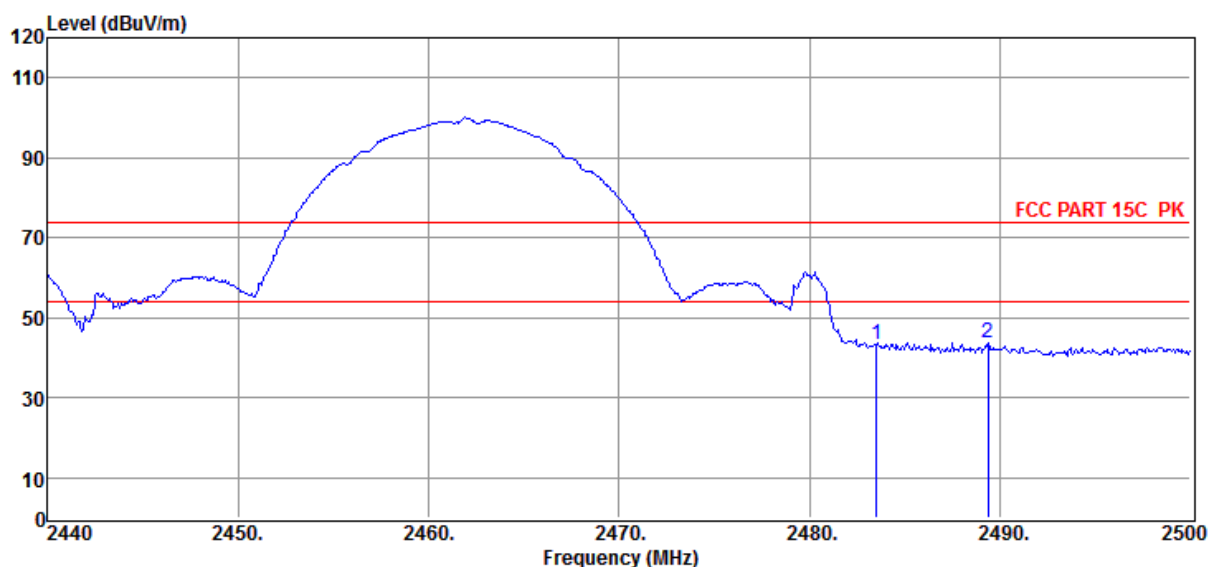
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6**Test Date** : 2021-06-01**Tested By** : Zora**EUT** : Network Camera**Model Number** : JVS-N95-X3**Power Supply** : AC 120V/60Hz**Test Mode** : Tx mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL**Memo** : 11B 2462

Data: 18



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	53.61	27.98	43.23	4.90	43.26	74.00	-30.74	Peak	HORIZONTAL
2	2489.38	54.20	27.99	43.24	4.91	43.86	74.00	-30.14	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

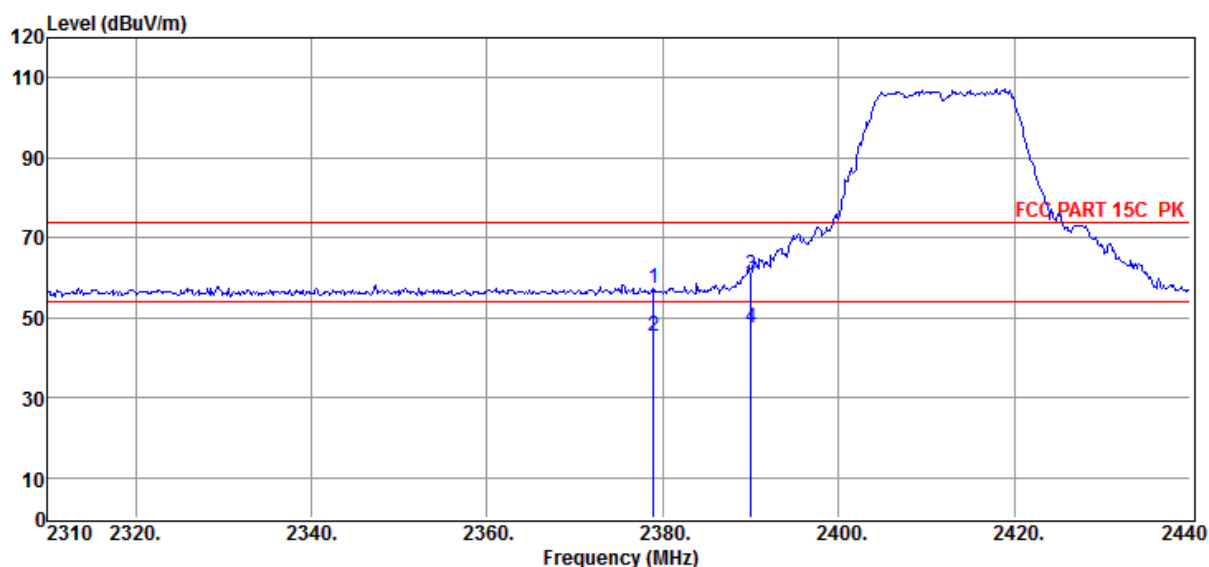
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6**Test Date** : 2021-06-01**Tested By** : Zora**EUT** : Network Camera**Model Number** : JVS-N95-X3**Power Supply** : AC 120V/60Hz**Test Mode** : Tx mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL**Memo** : 11G 2412

Data: 3



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2378.90	24.72	27.88	0.00	4.79	57.39	74.00	-16.61	Peak	VERTICAL
2	2378.90	12.87	27.88	0.00	4.79	45.54	54.00	-8.46	Average	VERTICAL
3	2390.00	27.87	27.89	0.00	4.80	60.56	74.00	-13.44	Peak	VERTICAL
4	2390.00	14.89	27.89	0.00	4.80	47.58	54.00	-6.42	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6

Test Date : 2021-06-01

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

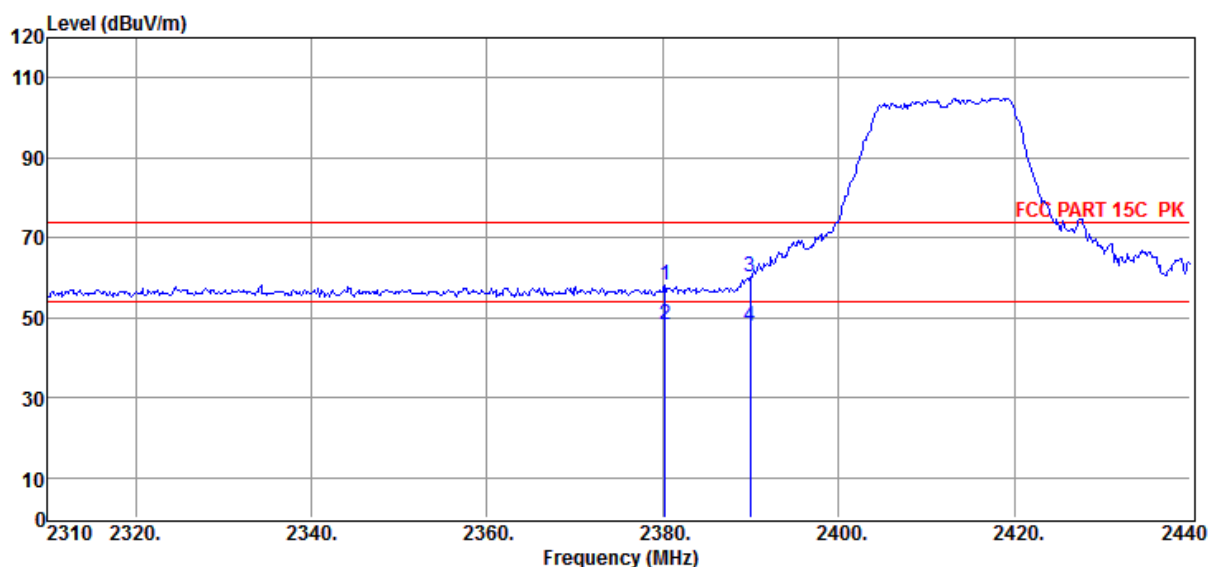
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

Memo : 11G 2412

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2380.20	25.48	27.88	0.00	4.79	58.15	74.00	-15.85	Peak	VERTICAL
2	2380.20	15.65	27.88	0.00	4.79	48.32	54.00	-5.68	Average	VERTICAL
3	2389.95	27.53	27.89	0.00	4.80	60.22	74.00	-13.78	Peak	VERTICAL
4	2389.95	15.21	27.89	0.00	4.80	47.90	54.00	-6.10	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

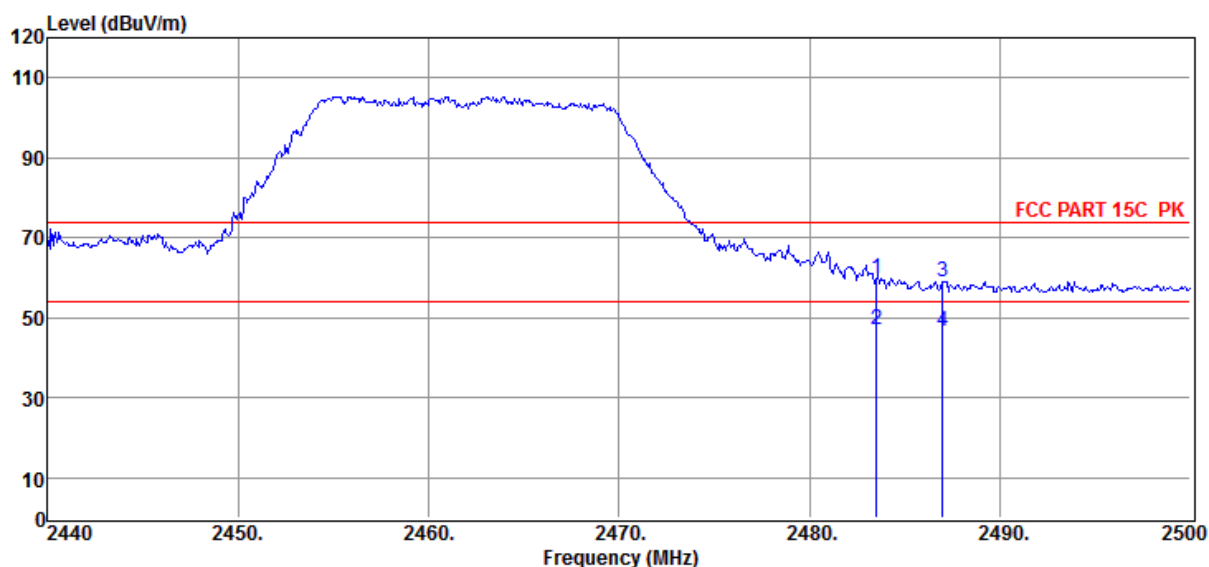
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6**Test Date** : 2021-06-01**Tested By** : Zora**EUT** : Network Camera**Model Number** : JVS-N95-X3**Power Supply** : AC 120V/60Hz**Test Mode** : Tx mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL**Memo** : 11G 2462

Data: 5



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	26.72	27.98	0.00	4.90	59.60	74.00	-14.40	Peak	VERTICAL
2	2483.50	14.01	27.98	0.00	4.90	46.89	54.00	-7.11	Average	VERTICAL
3	2486.98	26.17	27.99	0.00	4.91	59.07	74.00	-14.93	Peak	VERTICAL
4	2486.98	13.58	27.99	0.00	4.91	46.48	54.00	-7.52	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC ABOVE 1G.EM6

Test Date : 2021-06-01

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

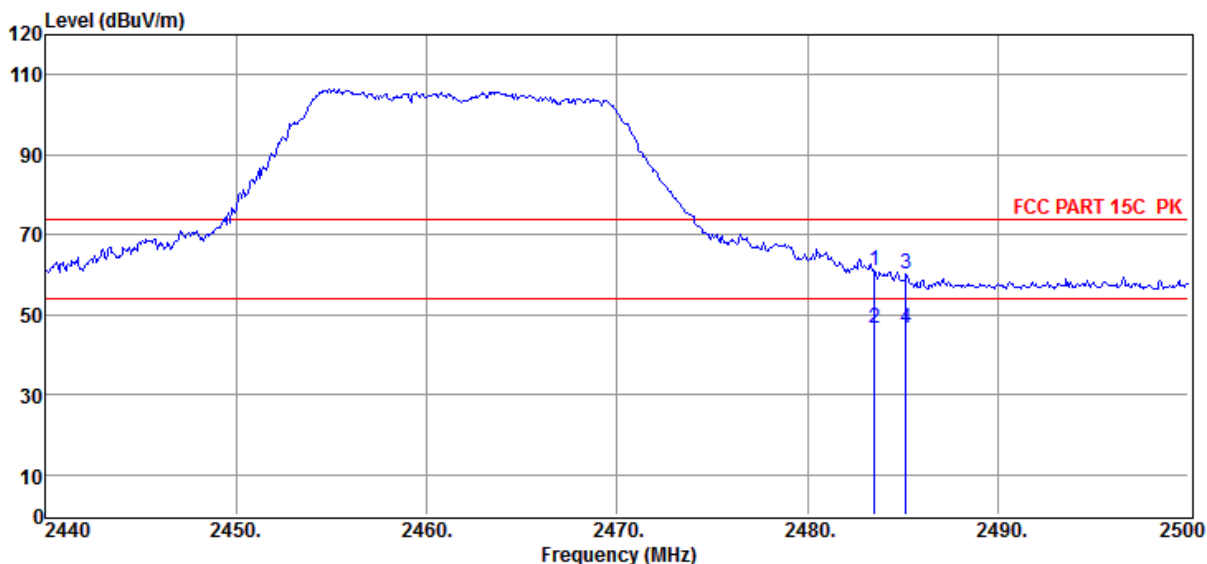
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11G 2462

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	28.00	27.98	0.00	4.90	60.88	74.00	-13.12	Peak	HORIZONTAL
2	2483.50	13.90	27.98	0.00	4.90	46.78	54.00	-7.22	Average	HORIZONTAL
3	2485.18	27.49	27.99	0.00	4.90	60.38	74.00	-13.62	Peak	HORIZONTAL
4	2485.18	13.66	27.99	0.00	4.90	46.55	54.00	-7.45	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6

Test Date : 2021-06-01

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

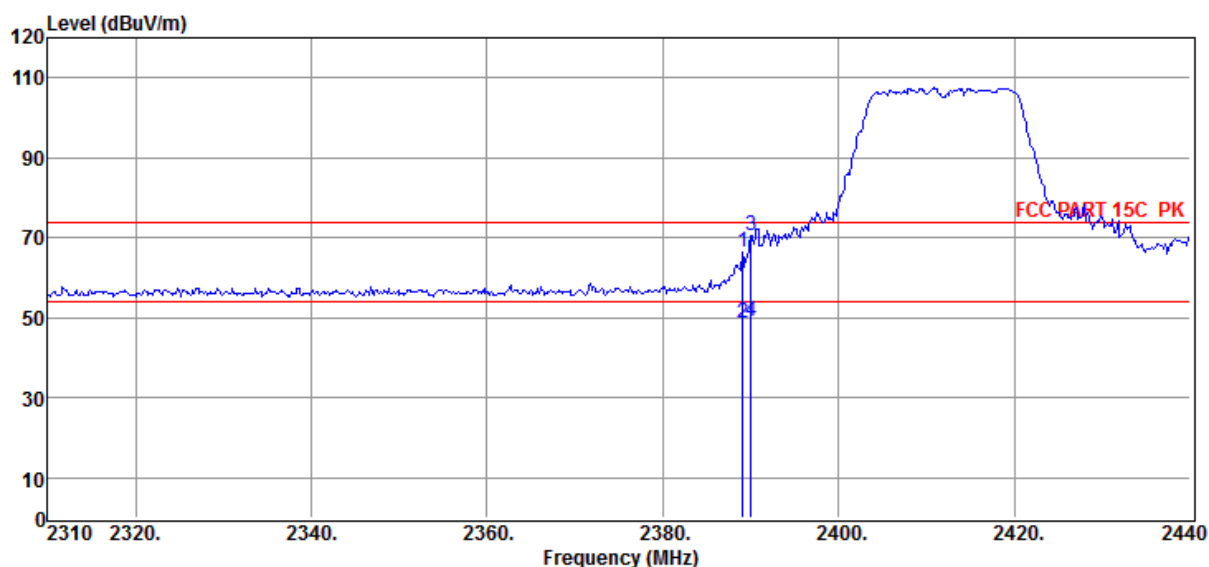
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11N20 2412

Data: 7



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2389.04	33.86	27.89	0.00	4.80	66.55	74.00	-7.45	Peak	HORIZONTAL
2	2389.04	15.78	27.89	0.00	4.80	48.47	54.00	-5.53	Average	HORIZONTAL
3	2390.00	37.81	27.89	0.00	4.80	70.50	74.00	-3.50	Peak	HORIZONTAL
4	2390.00	16.55	27.89	0.00	4.80	49.24	54.00	-4.76	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6

Test Date : 2021-06-01

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

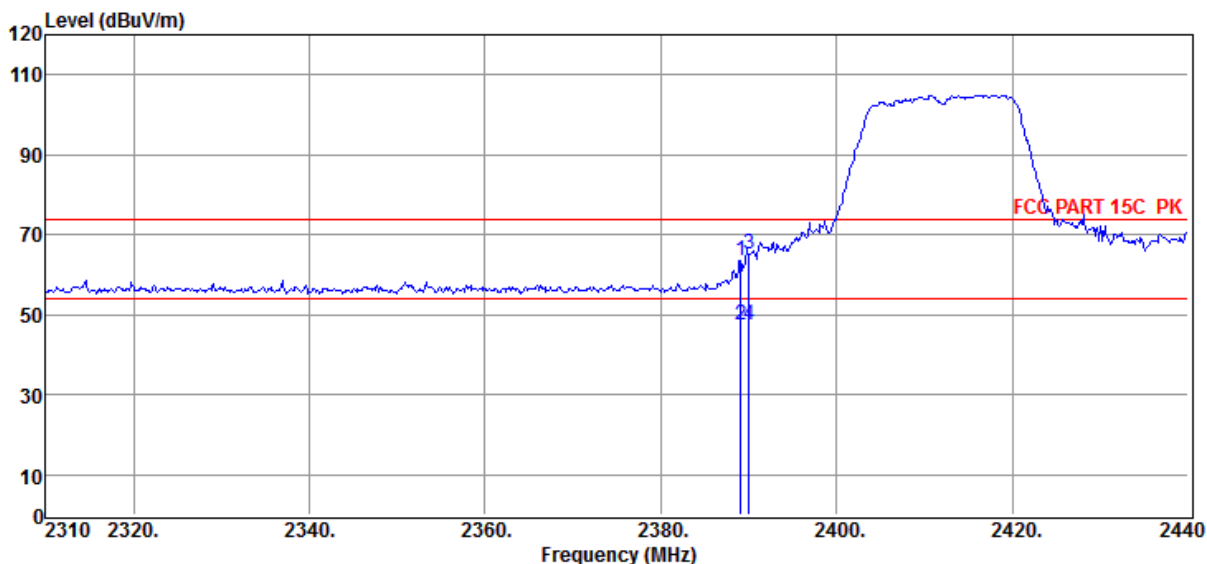
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

Memo : 11N20 2412

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2389.04	30.88	27.89	0.00	4.80	63.57	74.00	-10.43	Peak	VERTICAL
2	2389.04	14.66	27.89	0.00	4.80	47.35	54.00	-6.65	Average	VERTICAL
3	2390.00	32.30	27.89	0.00	4.80	64.99	74.00	-9.01	Peak	VERTICAL
4	2390.00	14.76	27.89	0.00	4.80	47.45	54.00	-6.55	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6

Test Date : 2021-06-01

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

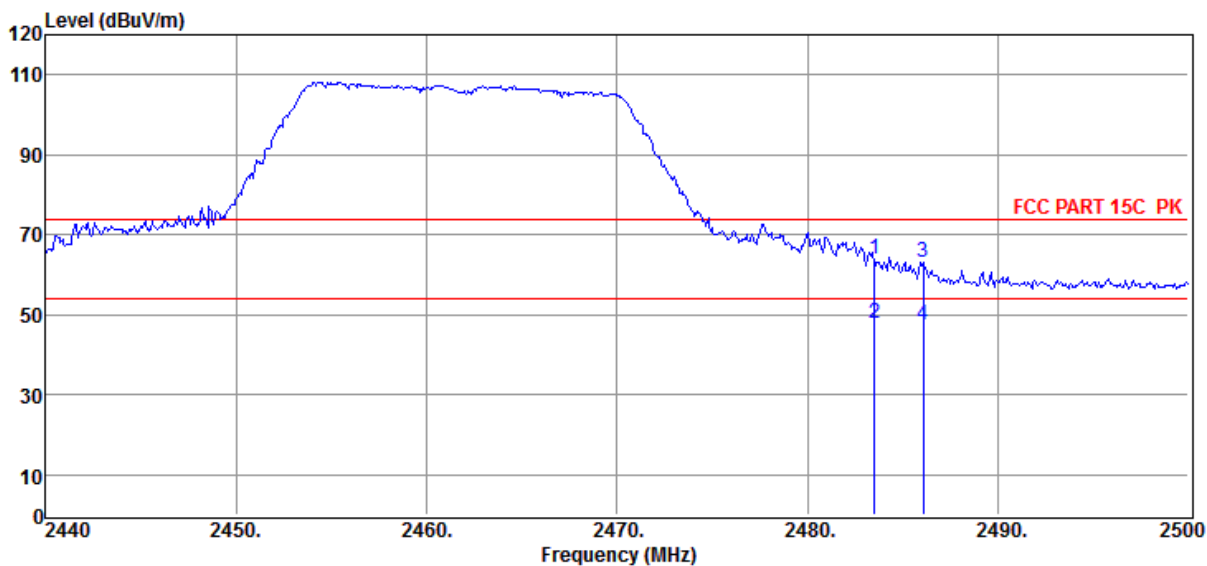
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11N20 2462

Data: 9



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	31.06	27.98	0.00	4.90	63.94	74.00	-10.06	Peak	HORIZONTAL
2	2483.50	15.09	27.98	0.00	4.90	47.97	54.00	-6.03	Average	HORIZONTAL
3	2486.08	30.23	27.99	0.00	4.90	63.12	74.00	-10.88	Peak	HORIZONTAL
4	2486.08	14.69	27.99	0.00	4.90	47.58	54.00	-6.42	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

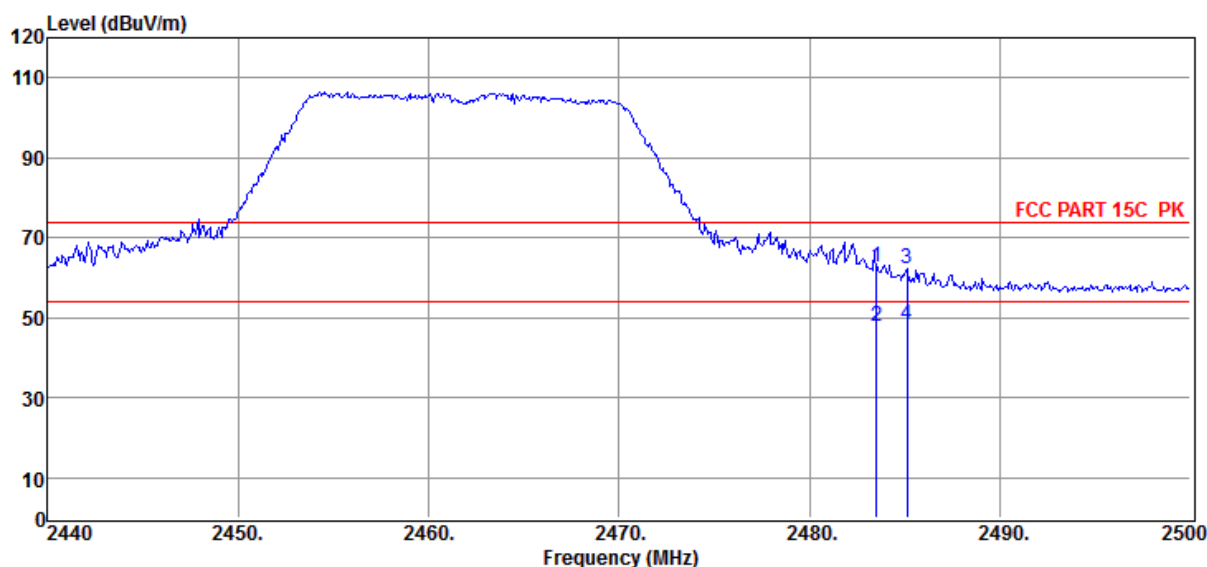
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6**Test Date** : 2021-06-01**Tested By** : Zora**EUT** : Network Camera**Model Number** : JVS-N95-X3**Power Supply** : AC 120V/60Hz**Test Mode** : Tx mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL**Memo** : 11N20 2462

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	29.97	27.98	0.00	4.90	62.85	74.00	-11.15	Peak	VERTICAL
2	2483.50	15.11	27.98	0.00	4.90	47.99	54.00	-6.01	Average	VERTICAL
3	2485.12	29.49	27.99	0.00	4.90	62.38	74.00	-11.62	Peak	VERTICAL
4	2485.12	15.26	27.99	0.00	4.90	48.15	54.00	-5.85	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6

Test Date : 2021-08-12

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

Power Supply : AC 120V/60Hz

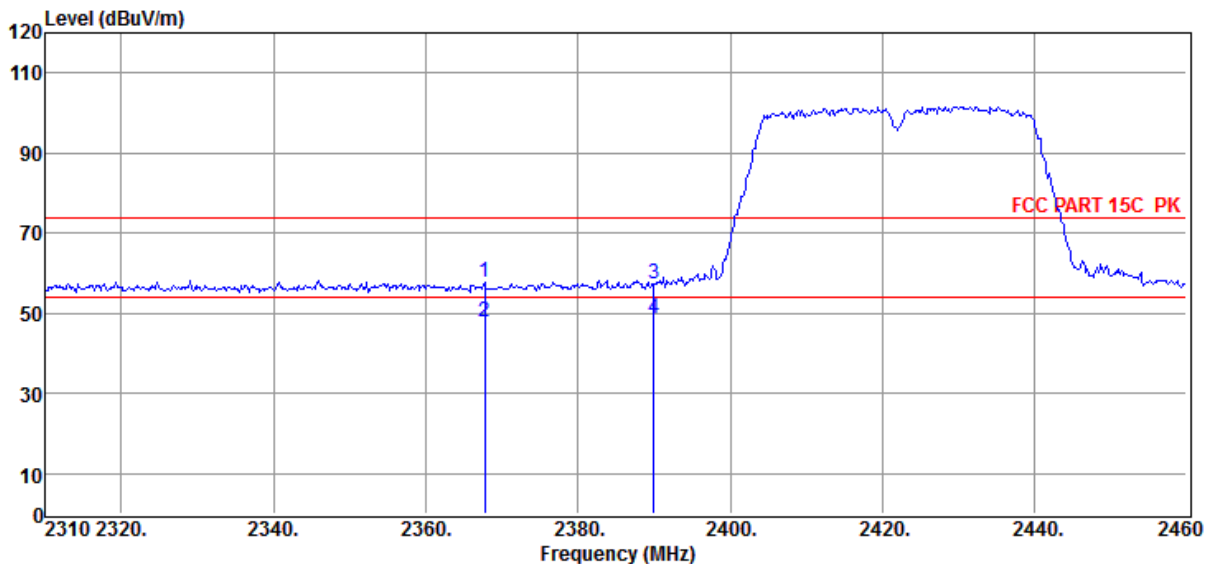
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11N40 2422

Data: 26



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2367.75	24.98	27.87	0.00	4.77	57.62	74.00	-16.38	Peak	VERTICAL
2	2367.75	15.00	27.87	0.00	4.77	47.64	54.00	-6.36	Average	VERTICAL
3	2389.95	24.46	27.89	0.00	4.80	57.15	74.00	-16.85	Peak	VERTICAL
4	2389.95	16.00	27.89	0.00	4.80	48.69	54.00	-5.31	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC
ABOVE 1G.EM6

Test Date : 2021-08-12

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

Power Supply : AC 120V/60Hz

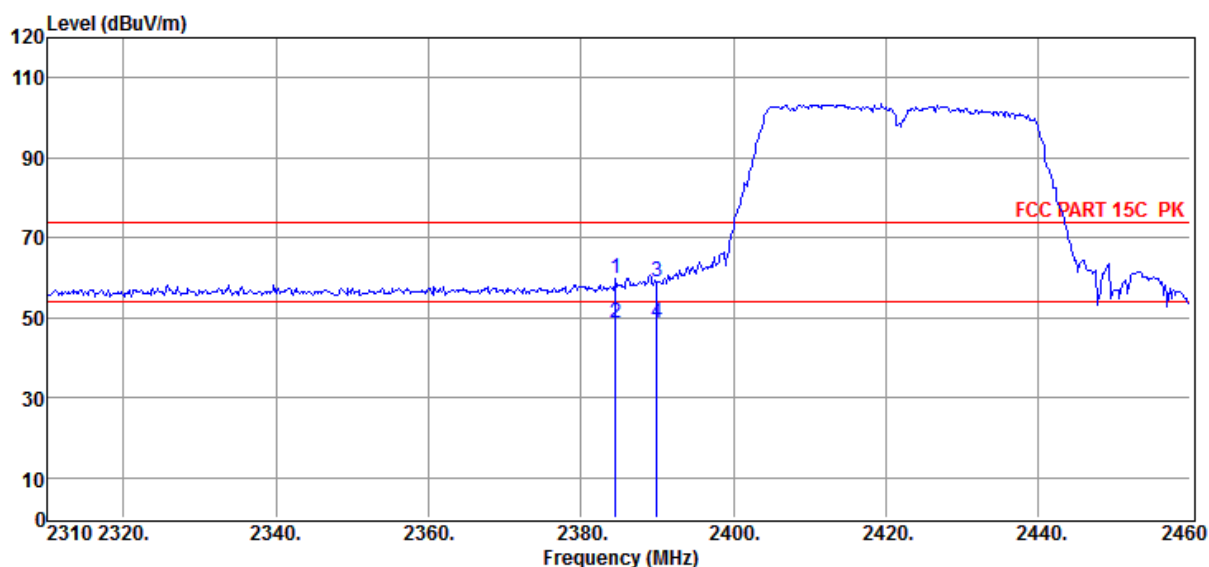
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11N40 2422

Data: 27



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2384.55	27.14	27.88	0.00	4.79	59.81	74.00	-14.19	Peak	HORIZONTAL
2	2384.55	16.01	27.88	0.00	4.79	48.68	54.00	-5.32	Average	HORIZONTAL
3	2390.00	26.39	27.89	0.00	4.80	59.08	74.00	-14.92	Peak	HORIZONTAL
4	2390.00	16.00	27.89	0.00	4.80	48.69	54.00	-5.31	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC ABOVE 1G.EM6

Test Date : 2021-06-01

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

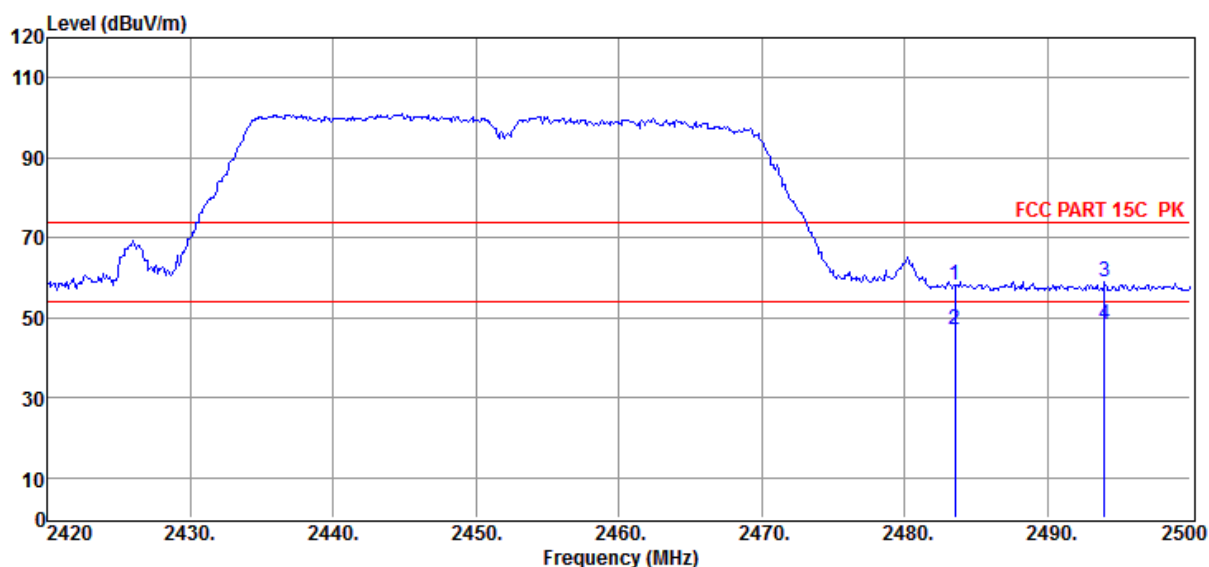
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11N40 2452

Data: 13



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	25.33	27.98	0.00	4.90	58.21	74.00	-15.79	Peak	HORIZONTAL
2	2483.50	14.25	27.98	0.00	4.90	47.13	54.00	-6.87	Average	HORIZONTAL
3	2494.00	26.03	27.99	0.00	4.91	58.93	74.00	-15.07	Peak	HORIZONTAL
4	2494.00	15.28	27.99	0.00	4.91	48.18	54.00	-5.82	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030810-3E JVS-X3\FCC ABOVE 1G.EM6

Test Date : 2021-06-01

Tested By : Zora

EUT : Network Camera

Model Number : JVS-N95-X3

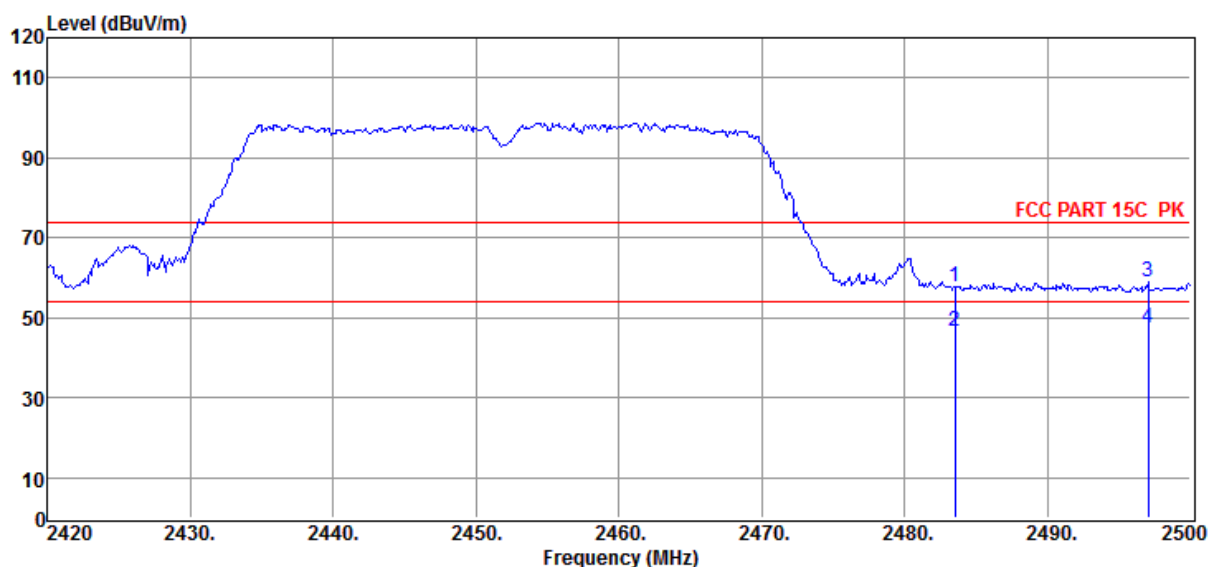
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11N40 2452

Data: 14



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	24.80	27.98	0.00	4.90	57.68	74.00	-16.32	Peak	VERTICAL
2	2483.50	13.80	27.98	0.00	4.90	46.68	54.00	-7.32	Average	VERTICAL
3	2497.04	25.95	28.00	0.00	4.92	58.87	74.00	-15.13	Peak	VERTICAL
4	2497.04	14.57	28.00	0.00	4.92	47.49	54.00	-6.51	Average	VERTICAL

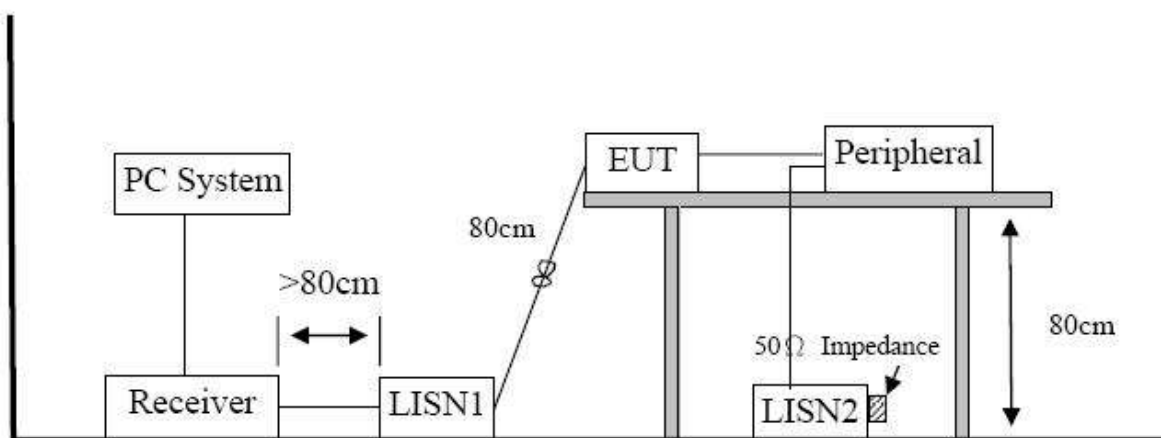
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

10. Power Line Conducted Emission

10.1. Block diagram of test setup



10.2. Power line conducted emission limits (Class B)

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

10.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

Ⓡ All support equipment power received from a second LISN.Ⓡ

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest

emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

10.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “-----” means peak detection; “-----” means average detection

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room

D:\2021 report data\Q21030810-1E\RF CE.EM6

Test Date : 2021-06-23

Tested By : Zora Zhang

EUT : Network Camera

Model Number : JVS-N95-X3

Power Supply : AC 120V/60Hz

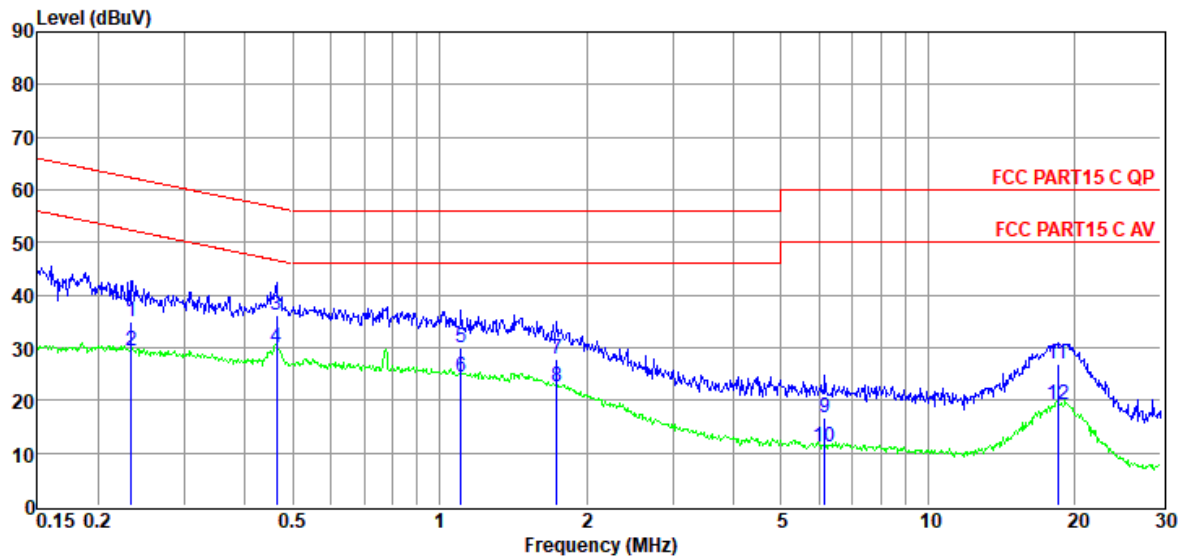
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55.5%,Press:101.4kPa

LISN : 2020 ENV 216 2#/NEUTRAL

Memo :

Data: 2



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBUV)	(dB)	(dB)	(dB)	(dBUV)	(dBUV)	(dB)		
1	0.23	15.58	9.39	0.02	10.01	35.00	62.30	-27.30	QP	NEUTRAL
2	0.23	9.99	9.39	0.02	10.01	29.41	62.30	-32.89	Average	NEUTRAL
3	0.46	16.72	9.40	0.02	10.01	36.15	56.63	-20.48	QP	NEUTRAL
4	0.46	10.50	9.40	0.02	10.01	29.93	56.63	-26.70	Average	NEUTRAL
5	1.11	10.63	9.41	0.03	10.01	30.08	56.00	-25.92	QP	NEUTRAL
6	1.11	5.08	9.41	0.03	10.01	24.53	56.00	-31.47	Average	NEUTRAL
7	1.73	8.36	9.41	0.05	10.01	27.83	56.00	-28.17	QP	NEUTRAL
8	1.73	3.13	9.41	0.05	10.01	22.60	56.00	-33.40	Average	NEUTRAL
9	6.15	-2.94	9.51	0.09	10.01	16.67	60.00	-43.33	QP	NEUTRAL
10	6.15	-8.33	9.51	0.09	10.01	11.28	60.00	-48.72	Average	NEUTRAL
11	18.43	7.10	9.59	0.15	10.02	26.86	60.00	-33.14	QP	NEUTRAL
12	18.43	-0.73	9.59	0.15	10.02	19.03	60.00	-40.97	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room

D:\2021 report data\Q21030810-1E\RF CE.EM6

Test Date : 2021-06-23

Tested By : Zora Zhang

EUT : Network Camera

Model Number : JVS-N95-X3

Power Supply : AC 120V/60Hz

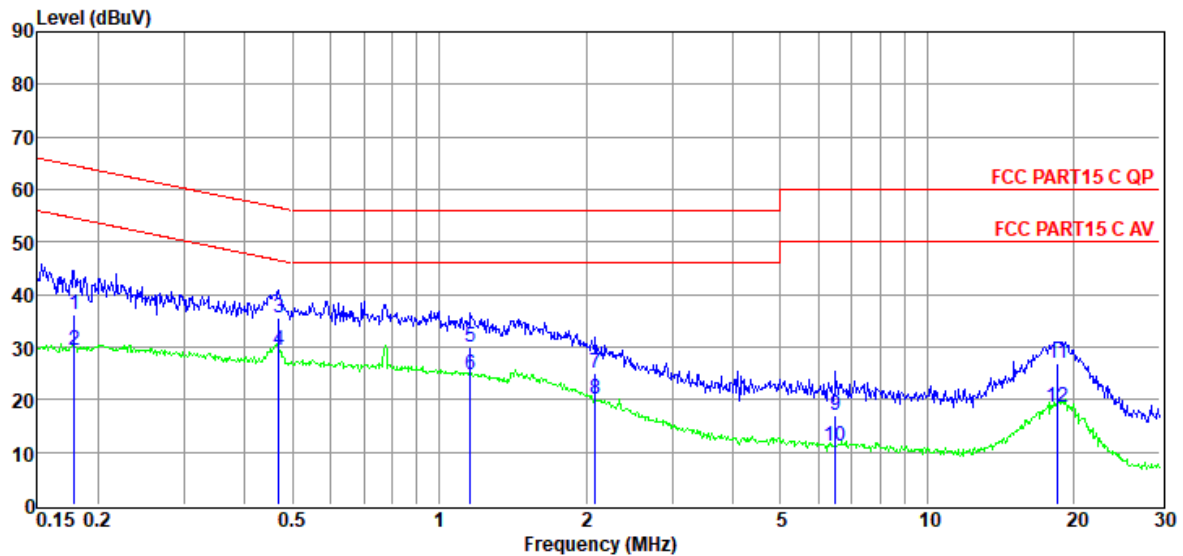
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55.5%,Press:101.4kPa

LISN : 2020 ENV 216 2#/LINE

Memo :

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.18	16.72	9.42	0.02	10.01	36.17	64.55	-28.38	QP	LINE
2	0.18	10.05	9.42	0.02	10.01	29.50	64.55	-35.05	Average	LINE
3	0.47	16.09	9.45	0.02	10.01	35.57	56.54	-20.97	QP	LINE
4	0.47	10.03	9.45	0.02	10.01	29.51	56.54	-27.03	Average	LINE
5	1.16	10.52	9.43	0.03	10.01	29.99	56.00	-26.01	QP	LINE
6	1.16	5.15	9.43	0.03	10.01	24.62	56.00	-31.38	Average	LINE
7	2.09	5.66	9.43	0.05	10.01	25.15	56.00	-30.85	QP	LINE
8	2.09	0.55	9.43	0.05	10.01	20.04	56.00	-35.96	Average	LINE
9	6.49	-2.53	9.53	0.09	10.01	17.10	60.00	-42.90	QP	LINE
10	6.49	-8.35	9.53	0.09	10.01	11.28	60.00	-48.72	Average	LINE
11	18.52	7.29	9.51	0.15	10.02	26.97	60.00	-33.03	QP	LINE
12	18.52	-1.15	9.51	0.15	10.02	18.53	60.00	-41.47	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2. Result

The antenna used for this product is Dedicated antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain is 2.5 dBi.

END OF REPORT