

FCC Test Report (WLAN)

Report No.: RF150107E06

FCC ID: PPD-QCNFA344A

Test Model: QCNFA344A

Received Date: Jan. 07, 2015

Test Date: Feb. 16 to 24, 2015

Issued Date: Mar. 11, 2015

Applicant: Qualcomm Atheros, Inc.

Address: 1700 Technology Drive, San Jose, CA 95110

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin
Chu Hsien 307, Taiwan R.O.C.

Test Location (1): No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin
Chu Hsien 307, Taiwan R.O.C.

Test Location (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin
Chu Hsien 307, Taiwan R.O.C.



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Release Control Record

Issue No.	Description	Date Issued
RF150107E06	Original release.	Mar. 11, 2015



1 Certificate of Conformity

Product: 802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand: Qualcomm Atheros
Test Model: QCNFA344A
Sample Status: R&D SAMPLE
Applicant: Qualcomm Atheros, Inc.
Test Date: Feb. 16 to 24, 2015
Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2009

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :  , **Date:** Mar. 11, 2015
Lori Chung / Specialist

Approved by :  , **Date:** Mar. 11, 2015
May Chen / Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (SECTION 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -16.00dB at 2.01953MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -3.3dB at 4874.00MHz & 4944.00MHz.
15.247(d)	Antenna Port Emission	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is IPEX not a standard connector.

NOTE: 1. For WLAN: The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 2400 ~ 2483.5MHz. For the 5.15~5.35GHz, 5.47~5.725GHz and 5.725~5.850GHz RF parameters was recorded in another test report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.86 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.43 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	3.72 dB
	6GHz ~ 18GHz	4.00 dB
	18GHz ~ 40GHz	4.11 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

Product	802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand	Qualcomm Atheros
Test Model	QCNFA344A
Status of EUT	R&D SAMPLE
Power Supply Rating	3.3Vdc form host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT (20/40) mode in 2.4GHz
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n : up to 300Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	For 15.407 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.50 ~ 5.72GHz, 5.745 ~ 5.825GHz For 15.247 2.412 ~ 2.472GHz
Number of Channel	For 15.407 25 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 12 for 802.11n (HT40), 802.11ac (VHT40) 6 for 802.11ac (VHT80) For 15.247 13 for 802.11b/g, 802.11n (HT20), VHT20 9 for 802.11n (HT40), VHT40
Output Power	For 15.407 802.11a: 73.721mW 802.11ac (VHT20): 73.119mW 802.11ac (VHT40): 60.324mW 802.11ac (VHT80): 47.178mW For 15.247 802.11b: 302.764mW 802.11g: 524.318mW VHT20: 503.893mW VHT40: 483.605mW
Antenna Type	See item 3.2
Antenna Connector	See item 3.2
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. There are Bluetooth technology and WLAN technology used for the EUT.
2. The EUT incorporates a 2T2R function.

2.4GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11b	1 ~ 11Mbps	2TX	2RX
802.11g	6 ~ 54Mbps	2TX	2RX
802.11n (HT20)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
802.11n (HT40)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
VHT20	MCS 0~8, Nss=1	2TX	2RX
	MCS 0~8, Nss=2	2TX	2RX
VHT40	MCS 0~9, Nss=1	2TX	2RX
	MCS 0~9, Nss=2	2TX	2RX
5GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11a	6 ~ 54Mbps	2TX	2RX
802.11n (HT20)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
802.11n (HT40)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
802.11ac (VHT20)	MCS 0~8, Nss=1	2TX	2RX
	MCS 0~8, Nss=2	2TX	2RX
802.11ac (VHT40)	MCS 0~9, Nss=1	2TX	2RX
	MCS 0~9, Nss=2	2TX	2RX
802.11ac (VHT80)	MCS 0~9, Nss=1	2TX	2RX
	MCS 0~9, Nss=2	2TX	2RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.3.1)

3. The EUT was pre-tested under the following modes:

Test Mode	Data rate
Mode A	400ns GI
Mode B	800ns GI

From the above modes, the worst case was found in **Mode B**. Therefore only the test data of the mode was recorded in this report.

4. WLAN/BT coexistence mode:

◆ 2x2 WLAN + BT:

- 5GHz 802.11a/an (or 11ac) transmit concurrent with BT.
- 2.4GHz: timely shared coexistence.

5. The emission (conducted & radiated emission) of the simultaneous operation (WiFi <5GHz> & Bluetooth) have been evaluated and no non-compliance found. The detail combinations of transmitters / frequencies / modes as below table

Mode	Available Channel	Tested Channel	Modulation Technology
5 GHz (802.11a)	36 to 165	157	OFDM
+ Bluetooth (GFSK)	0 to 78	39	FHSS

6. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Antenna

The antenna gain was declared by client; please refer to the following table:

Transmitter Circuit	Brand	Model	Ant. Type	2.4GHz Gain with cable loss (dBi)	5GHz Gain with cable loss (dBi)	2.4GHz Cable Loss (dBi)	5G Cable Loss (dBi)	Connector Type	Cable Length (mm)
Chain (0)	WNC	81-EBJ15.005	PIFA	3.00	Band 1&2: 2.56	1.15	Band 1&2: 1.70	IPEX	300
					Band 3: 4.76		Band 3: 1.74		
					Band 4: 4.76		Band 4: 1.79		
Chain (1)	WNC	81-EBJ15.005	PIFA	3.62	Band 1&2: 3.08	1.15	Band 1&2: 1.70	IPEX	300
					Band 3: 3.31		Band 3: 1.74		
					Band 4: 2.42		Band 4: 1.79		

Note: 1. Above antenna gains of antenna are Total (H+V).

3.3 Description of Test Modes

13 channels are provided for 802.11b, 802.11g and 802.11n (HT20), VHT20:

Channel	Frequency	Channel	Frequency
1	2412MHz	8	2447MHz
2	2417MHz	9	2452MHz
3	2422MHz	10	2457MHz
4	2427MHz	11	2462MHz
5	2432MHz	12	2467MHz
6	2437MHz	13	2472MHz
7	2442MHz		

9 channels are provided for 802.11n (HT40), VHT40:

Channel	Frequency	Channel	Frequency
3	2422MHz	8	2447MHz
4	2427MHz	9	2452MHz
5	2432MHz	10	2457MHz
6	2437MHz	11	2462MHz
7	2442MHz		

3.3.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	UE≥1G	UE<1G	PLC	APCM	
-	√	√	√	√	-

Where **UE ≥ 1G**: Unwanted Emission above 1GHz **UE < 1G**: Unwanted Emission below 1GHz

PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE: For Below 1GHz: The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

Unwanted Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	1
802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	6
VHT20	1 to 13	1, 6, 11, 12, 13	OFDM	6.5
VHT40	3 to 11	3, 6, 9, 10, 11	OFDM	13.5

Unwanted Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11g	1 to 13	6	OFDM	6

Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11g	1 to 13	6	OFDM	6

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	1
802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	6
VHT20	1 to 13	1, 6, 11, 12, 13	OFDM	6.5
VHT40	3 to 11	3, 6, 9, 10, 11	OFDM	13.5

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
UE \geq 1G	23deg. C, 73%RH	120Vac, 60Hz	Tim Ho
UE $<$ 1G	21deg. C, 70%RH	120Vac, 60Hz	Gary Cheng
PLC	20deg. C, 60%RH	120Vac, 60Hz	Barry Lee
APCM	15deg. C, 57%RH	120Vac, 60Hz	Anderson Chen

3.4 Duty Cycle of Test Signal

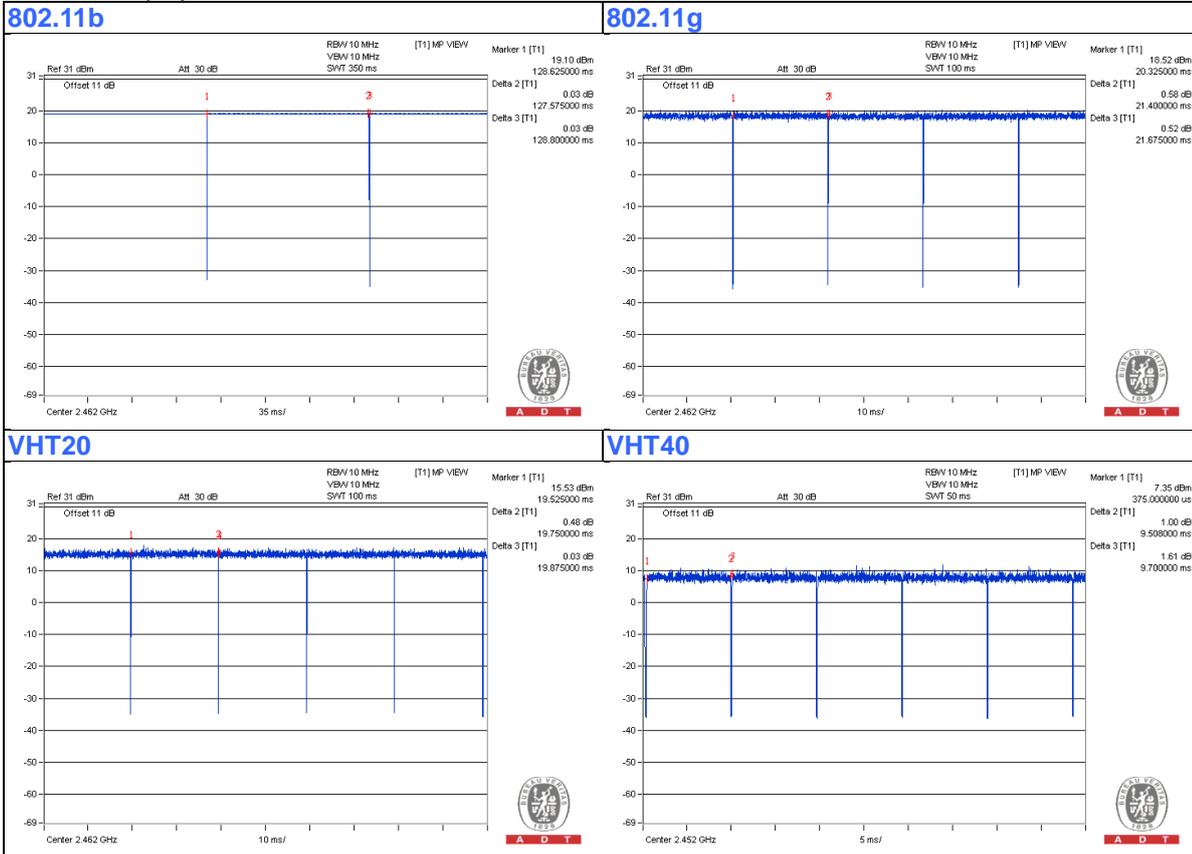
Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

802.11b: Duty cycle = $127.575 \text{ ms} / 128.8 \text{ ms} = 0.99$

802.11g: Duty cycle = $21.4 \text{ ms} / 21.675 \text{ ms} = 0.987$

VHT20: Duty cycle = $19.75 \text{ ms} / 19.875 \text{ ms} = 0.994$

VHT40: Duty cycle = $9.508 \text{ ms} / 9.7 \text{ ms} = 0.98$



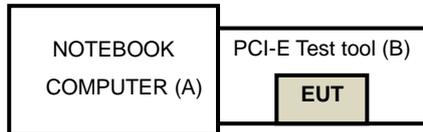
3.5 Description of Support Units

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.

No.	Product	Brand	Model No.	Serial No.	FCC ID	Remark
A	NOTEBOOK COMPUTER	DELL	E5430	HYV4VY1	FCC DoC	Provided by Lab
B	PCI-E Test tool	Qualcomm Atheros	NA	NA	NA	Supplied by Client

NOTE: All power cords of the above support units are non-shielded (1.8 m).

3.5.1 Configuration of System under Test



3.6 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)

558074 D01 DTS Meas Guidance v03r02

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Conducted Output Power Measurement

4.1.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

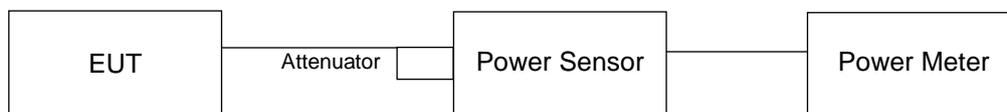
Array Gain = 0 dB (i.e., no array gain) for NANT \leq 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths \geq 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT \geq 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

4.1.2 Test Setup



4.1.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power Meter Anritsu	ML2495A	1014008	Apr. 30, 2014	Apr. 29, 2015
Power Sensor Anritsu	MA2411B	0917122	Apr. 30, 2014	Apr. 29, 2015

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date : Feb. 24, 2015

4.1.4 Test Procedures

The peak / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / average power sensor. Record the power level.

4.1.5 Deviation from Test Standard

No deviation.

4.1.6 EUT Operating Conditions

The software (QCART Version: 3.0.33.0) provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.1.7 Test Results

FOR PEAK POWER

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.49	21.15	271.246	24.33	29.37	Pass
6	2437	21.88	21.72	302.764	24.81	29.37	Pass
11	2462	21.53	21.04	269.290	24.30	29.37	Pass
12	2467	16.24	16.35	85.225	19.31	29.37	Pass
13	2472	12.56	12.35	35.209	15.47	29.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, therefore the limit needs to reduce, so the power limit shall be reduced to $30-(6.63-6) = 29.37\text{dBm}$.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.20	22.47	385.534	25.86	29.37	Pass
6	2437	24.26	24.11	524.318	27.20	29.37	Pass
11	2462	23.08	22.54	382.709	25.83	29.37	Pass
12	2467	19.23	19.32	169.260	22.29	29.37	Pass
13	2472	8.23	7.70	12.541	10.98	29.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, therefore the limit needs to reduce, so the power limit shall be reduced to $30-(6.63-6) = 29.37\text{dBm}$.

VHT20

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.58	21.65	290.098	24.63	29.37	Pass
6	2437	23.74	24.27	503.893	27.02	29.37	Pass
11	2462	21.24	21.35	269.503	24.31	29.37	Pass
12	2467	19.93	19.91	196.350	22.93	29.37	Pass
13	2472	6.97	6.25	9.194	9.64	29.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, therefore the limit needs to reduce, so the power limit shall be reduced to $30-(6.63-6) = 29.37\text{dBm}$.

VHT40

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	18.35	18.33	136.468	21.35	29.37	Pass
6	2437	24.03	23.63	483.605	26.84	29.37	Pass
9	2452	16.22	16.53	86.857	19.39	29.37	Pass
10	2457	16.84	16.91	97.397	19.89	29.37	Pass
11	2462	8.25	7.97	12.949	11.12	29.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, therefore the limit needs to reduce, so the power limit shall be reduced to $30 - (6.63 - 6) = 29.37\text{dBm}$.

FOR AVERAGE POWER
802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	19.06	18.86	157.451	21.97
6	2437	19.60	19.53	180.944	22.58
11	2462	19.19	18.77	158.321	22.00
12	2467	13.88	14.01	49.611	16.96
13	2472	10.02	10.05	20.162	13.05

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	16.79	16.23	89.729	19.53
6	2437	18.54	18.46	141.596	21.51
11	2462	16.55	16.34	88.239	19.46
12	2467	13.42	13.53	44.521	16.49
13	2472	1.73	1.53	2.911	4.64

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	15.17	15.47	68.122	18.33
6	2437	18.58	19.12	153.769	21.87
11	2462	14.64	14.79	59.237	17.73
12	2467	13.14	13.02	40.651	16.09
13	2472	0.09	-0.22	1.972	2.95

VHT40

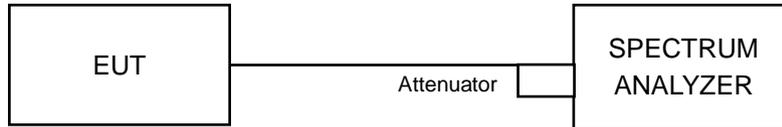
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
3	2422	11.65	11.28	28.050	14.48
6	2437	17.55	17.49	112.990	20.53
9	2452	9.46	9.59	17.930	12.54
10	2457	10.04	10.01	20.116	13.04
11	2462	1.17	1.14	2.609	4.16

4.2 Power Spectral Density Measurement

4.2.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

4.2.2 Test Setup



4.2.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSP 40	100060	May 08, 2014	May 07, 2015

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date :Feb. 24, 2015

4.2.4 Test Procedures

1. Set the RBW = 3 kHz, VBW =10 kHz, Detector = peak.
2. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
3. Use the peak marker function to determine the maximum amplitude level.

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

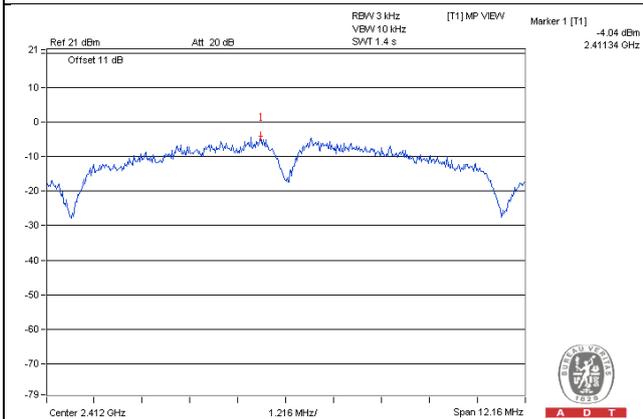
4.2.7 Test Results

802.11b

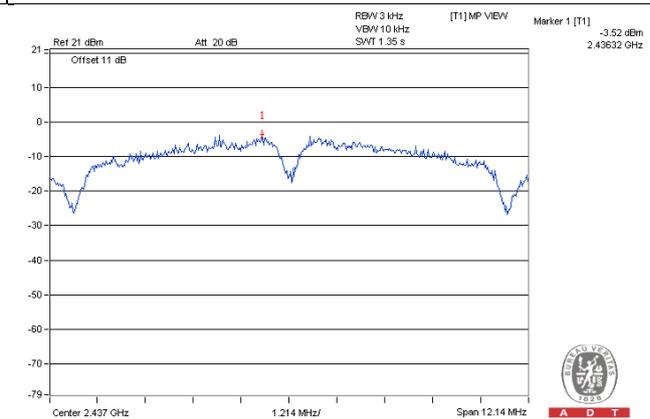
TX chain	Channel	Freq. (MHz)	PSD (dBm)	10 log (N=2) dB	Total PSD (dBm)	Limit (dBm)	Pass /Fail
0	1	2412	-4.04	3.01	-1.03	7.37	Pass
	6	2437	-3.52	3.01	-0.51	7.37	Pass
	11	2462	-4.85	3.01	-1.84	7.37	Pass
	12	2467	-10.07	3.01	-7.06	7.37	Pass
	13	2472	-13.71	3.01	-10.70	7.37	Pass
1	1	2412	-5.26	3.01	-2.25	7.37	Pass
	6	2437	-4.12	3.01	-1.11	7.37	Pass
	11	2462	-6.37	3.01	-3.36	7.37	Pass
	12	2467	-9.87	3.01	-6.86	7.37	Pass
	13	2472	-14.08	3.01	-11.07	7.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.63-6) = 7.37\text{dBm}$.

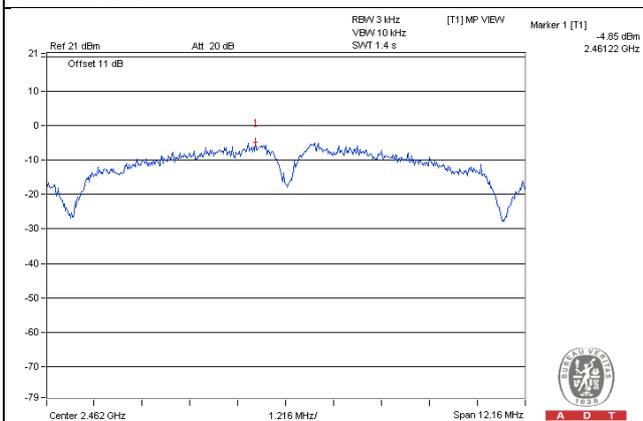
Chain 0 / CH1



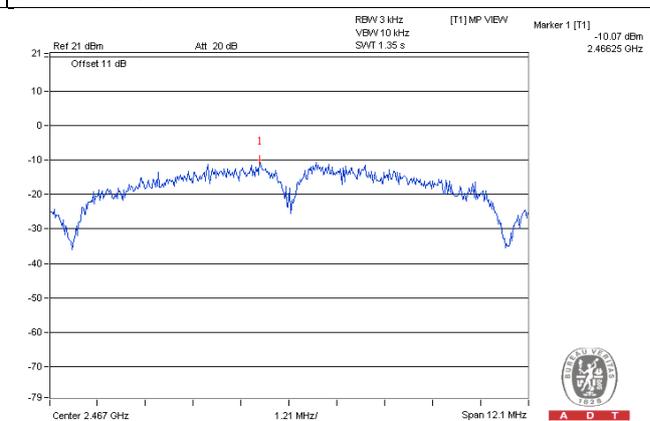
Chain 0 / CH6



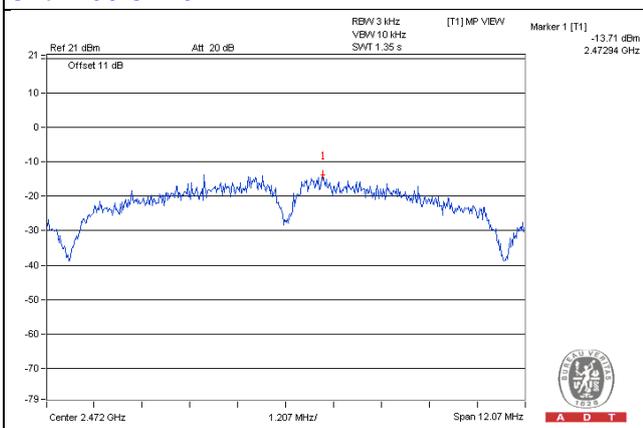
Chain 0 / CH11



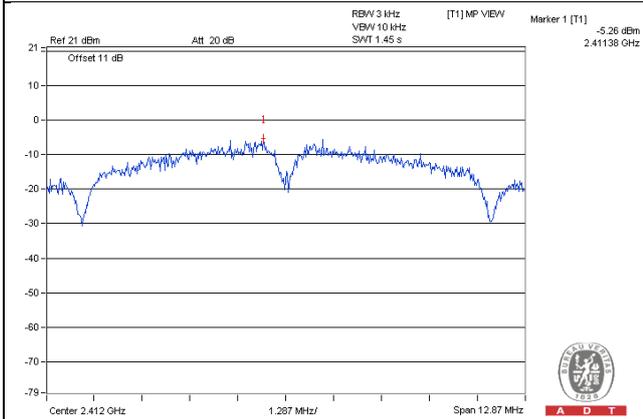
Chain 0 / CH12



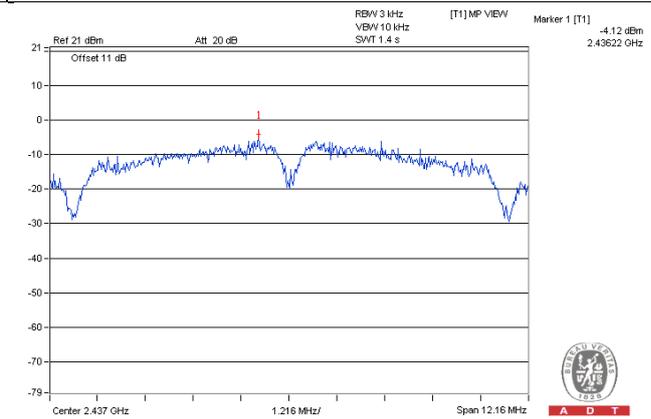
Chain 0 / CH13



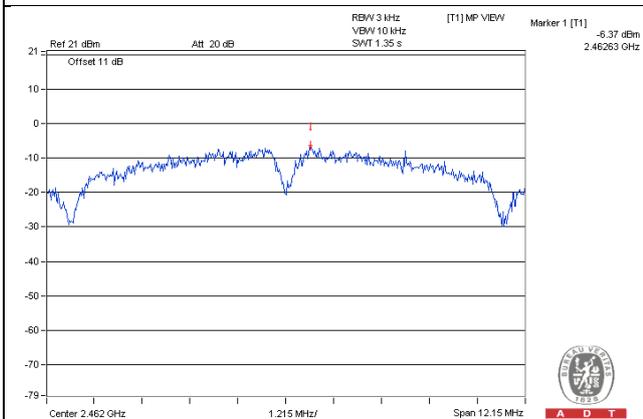
Chain 1 / CH1



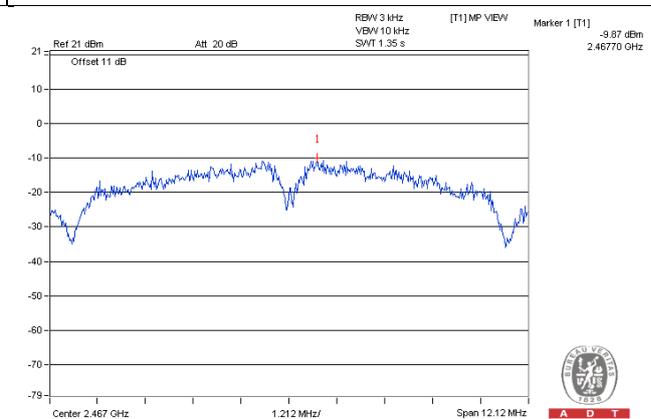
Chain 1 / CH6



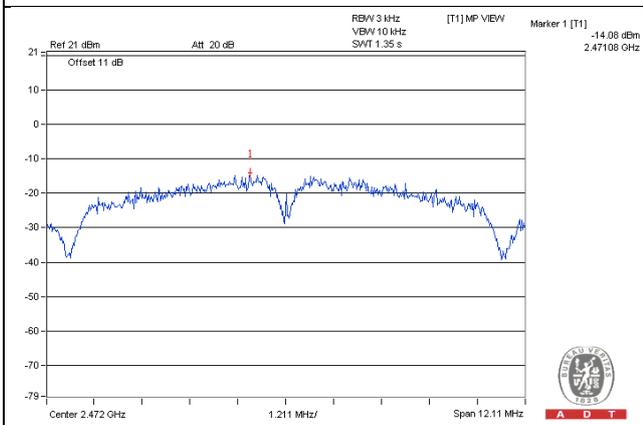
Chain 1 / CH11



Chain 1 / CH12



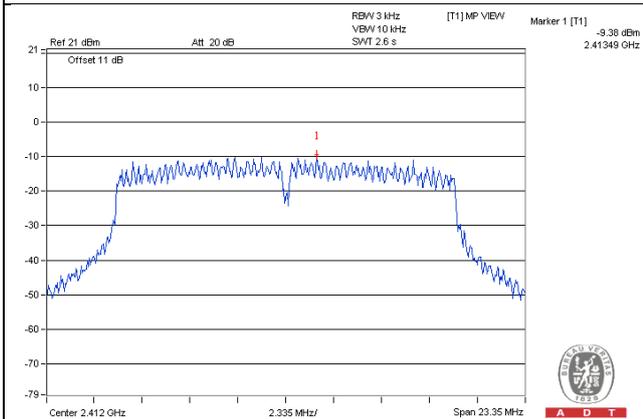
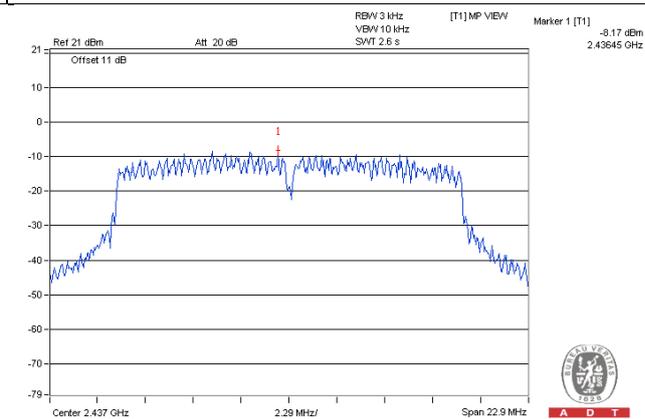
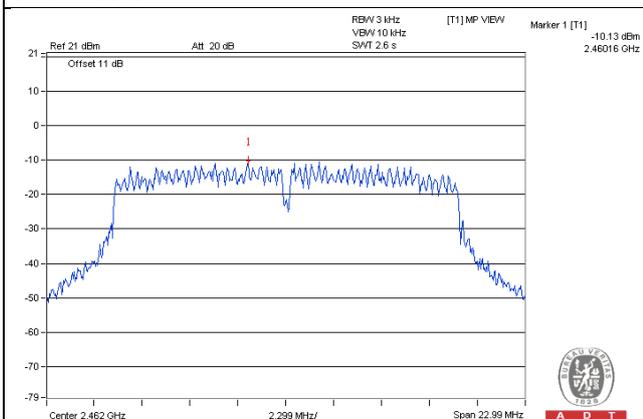
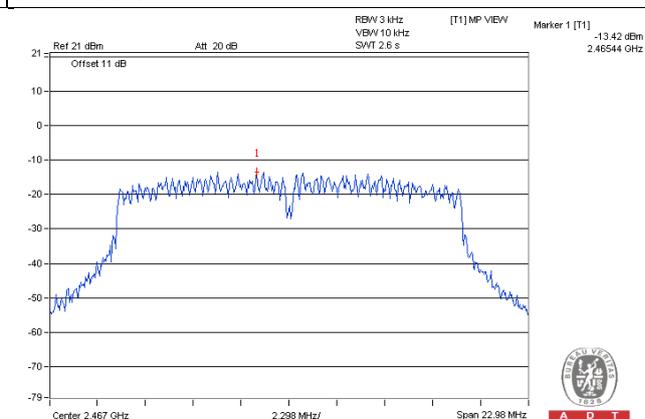
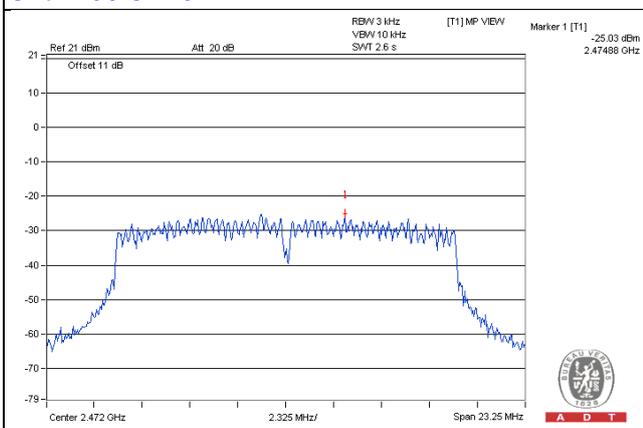
Chain 1 / CH13

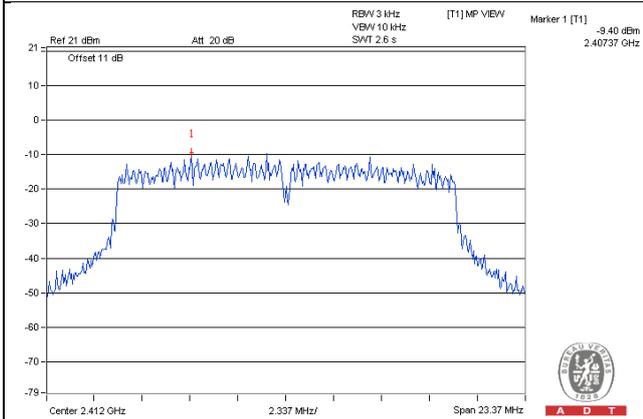
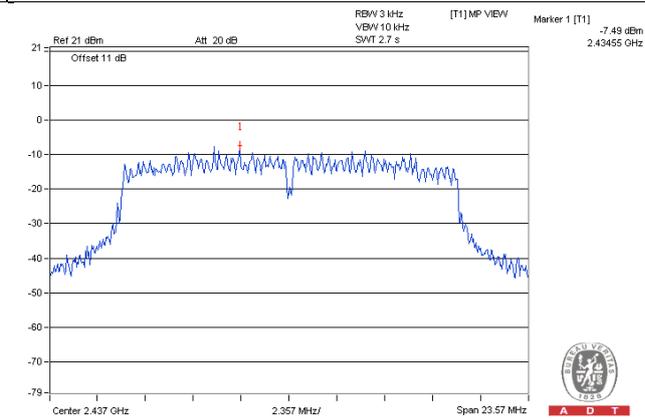
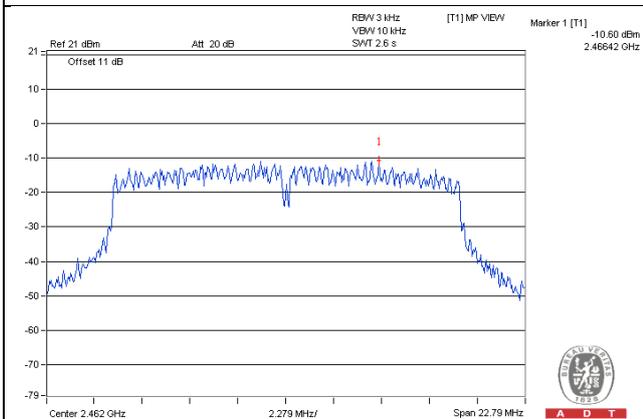
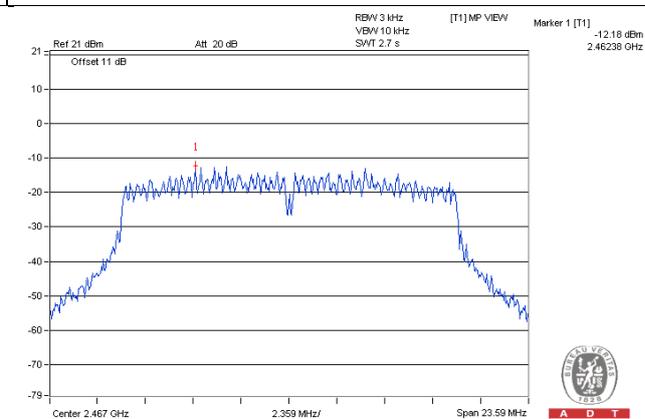
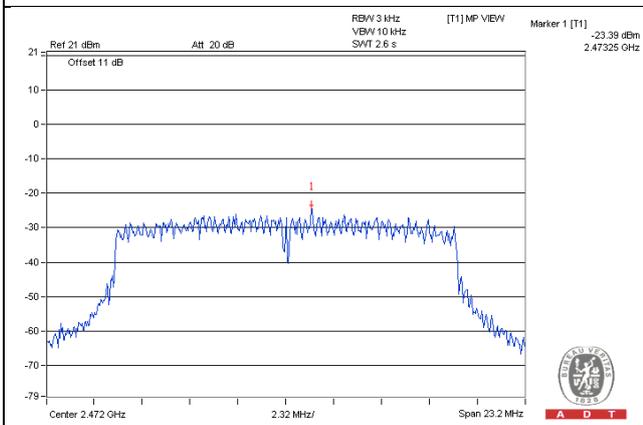


802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm)	10 log (N=2) dB	Total PSD (dBm)	Limit (dBm)	Pass /Fail
0	1	2412	-9.38	3.01	-6.37	7.37	Pass
	6	2437	-8.17	3.01	-5.16	7.37	Pass
	11	2462	-10.13	3.01	-7.12	7.37	Pass
	12	2467	-13.42	3.01	-10.41	7.37	Pass
	13	2472	-25.03	3.01	-22.02	7.37	Pass
1	1	2412	-9.40	3.01	-6.39	7.37	Pass
	6	2437	-7.49	3.01	-4.48	7.37	Pass
	11	2462	-10.60	3.01	-7.59	7.37	Pass
	12	2467	-12.18	3.01	-9.17	7.37	Pass
	13	2472	-23.39	3.01	-20.38	7.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.63-6) = 7.37\text{dBm}$.

Chain 0 / CH1**Chain 0 / CH6****Chain 0 / CH11****Chain 0 / CH12****Chain 0 / CH13**

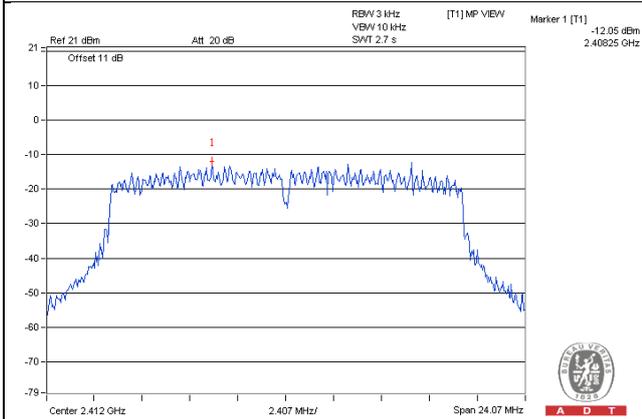
Chain 1 / CH1

Chain 1 / CH6

Chain 1 / CH11

Chain 1 / CH12

Chain 1 / CH13


VHT20

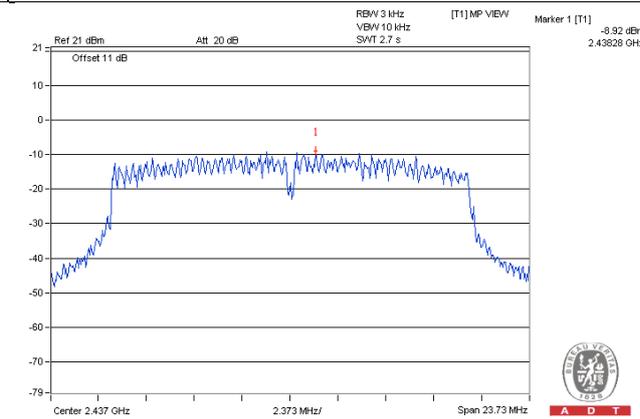
TX chain	Channel	Freq. (MHz)	PSD (dBm)	10 log (N=2) dB	Total PSD (dBm)	Limit (dBm)	Pass /Fail
0	1	2412	-12.05	3.01	-9.04	7.37	Pass
	6	2437	-8.92	3.01	-5.91	7.37	Pass
	11	2462	-12.89	3.01	-9.88	7.37	Pass
	12	2467	-13.05	3.01	-10.04	7.37	Pass
	13	2472	-26.64	3.01	-23.63	7.37	Pass
1	1	2412	-13.22	3.01	-10.21	7.37	Pass
	6	2437	-9.58	3.01	-6.57	7.37	Pass
	11	2462	-13.71	3.01	-10.70	7.37	Pass
	12	2467	-14.11	3.01	-11.10	7.37	Pass
	13	2472	-27.22	3.01	-24.21	7.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.63-6) = 7.37\text{dBm}$.

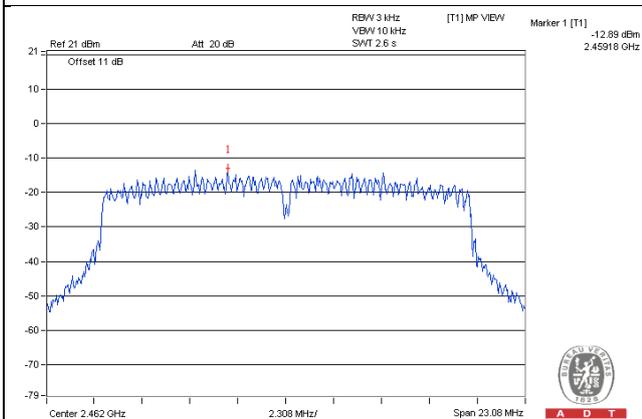
Chain 0 / CH1



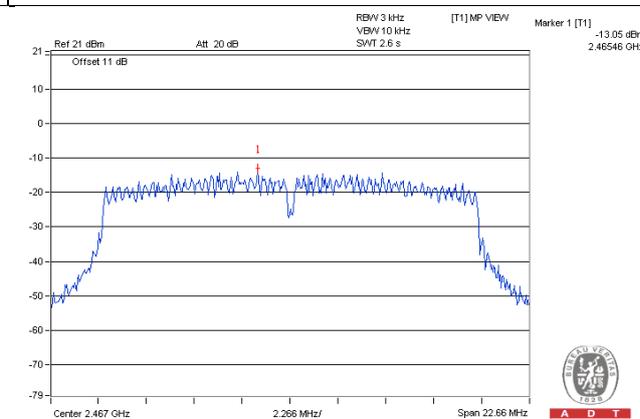
Chain 0 / CH6



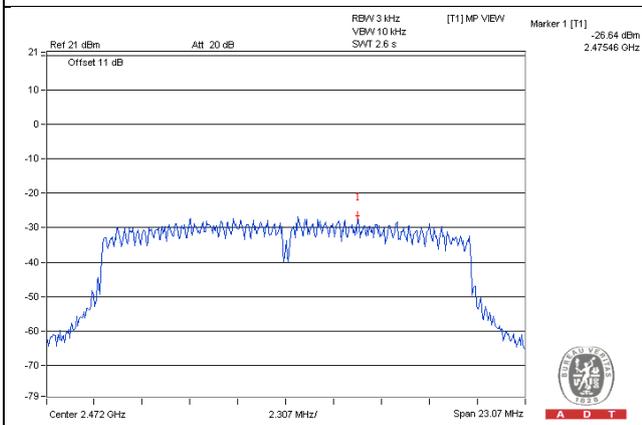
Chain 0 / CH11

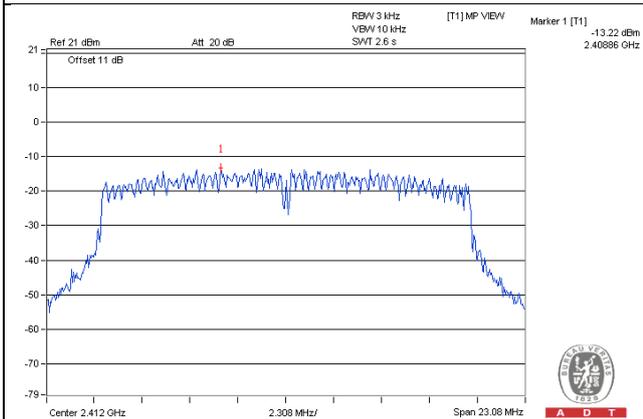
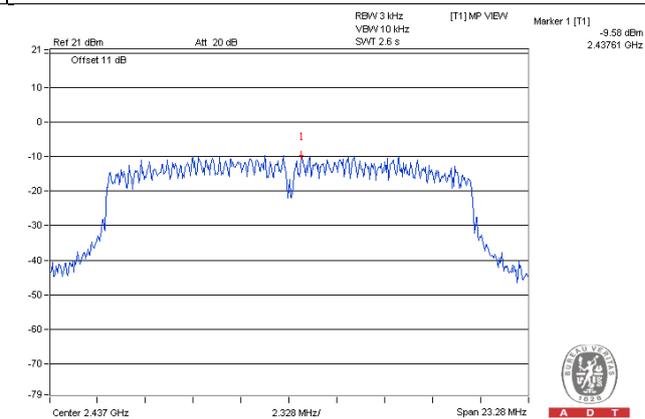
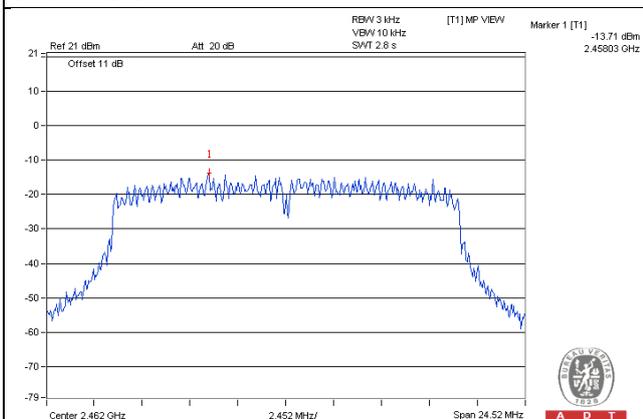
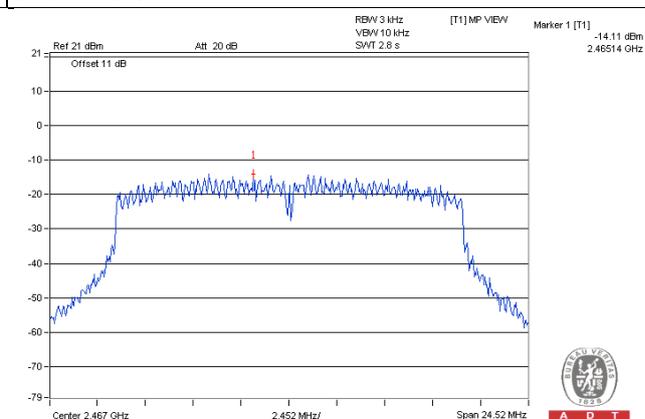
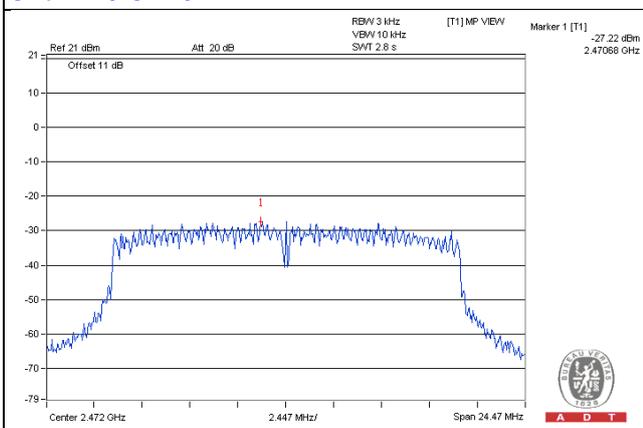


Chain 0 / CH12



Chain 0 / CH13



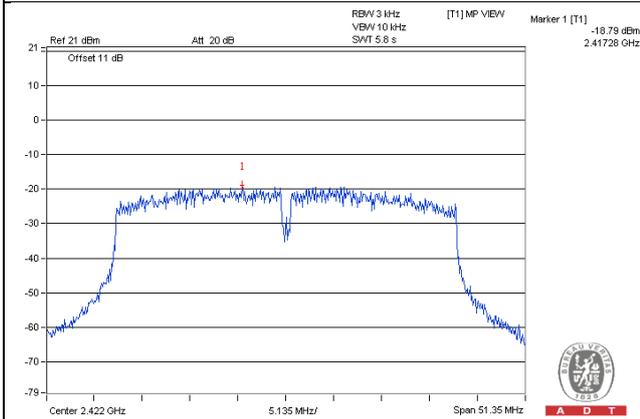
Chain 1 / CH1**Chain 1 / CH6****Chain 1 / CH11****Chain 1 / CH12****Chain 1 / CH13**

VHT40

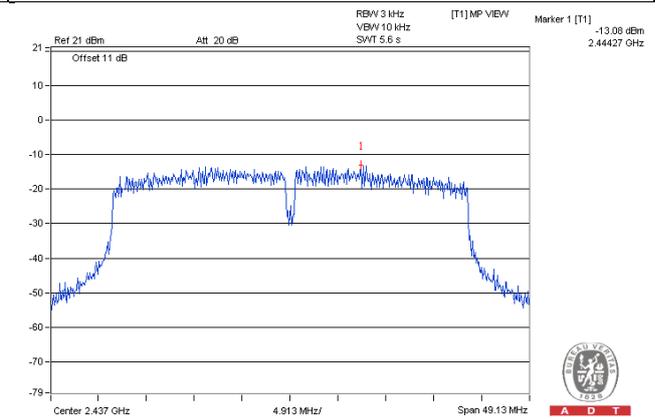
TX chain	Channel	Freq. (MHz)	PSD (dBm)	10 log (N=2) dB	Total PSD (dBm)	Limit (dBm)	Pass /Fail
0	3	2422	-18.79	3.01	-15.78	7.37	Pass
	6	2437	-13.08	3.01	-10.07	7.37	Pass
	9	2452	-21.00	3.01	-17.99	7.37	Pass
	10	2457	-18.85	3.01	-15.84	7.37	Pass
	11	2462	-26.98	3.01	-23.97	7.37	Pass
1	3	2422	-18.46	3.01	-15.45	7.37	Pass
	6	2437	-12.92	3.01	-9.91	7.37	Pass
	9	2452	-19.51	3.01	-16.50	7.37	Pass
	10	2457	-19.09	3.01	-16.08	7.37	Pass
	11	2462	-27.14	3.01	-24.13	7.37	Pass

NOTE: Directional gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.63-6) = 7.37\text{dBm}$.

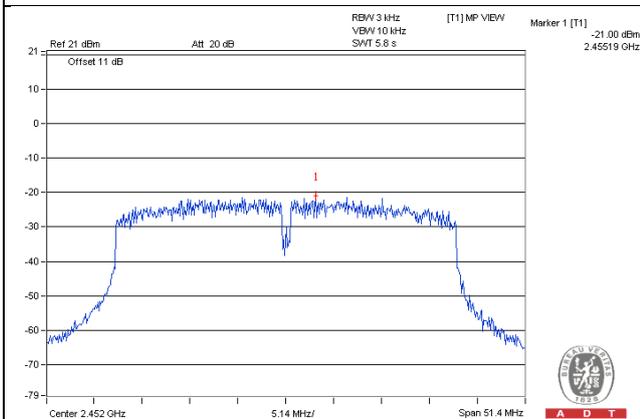
Chain 0 / CH3



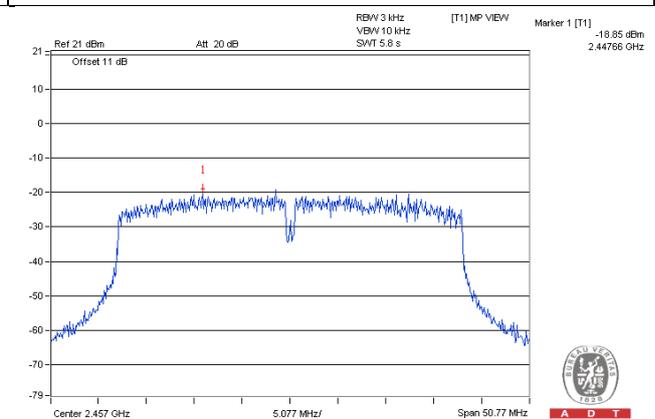
Chain 0 / CH6



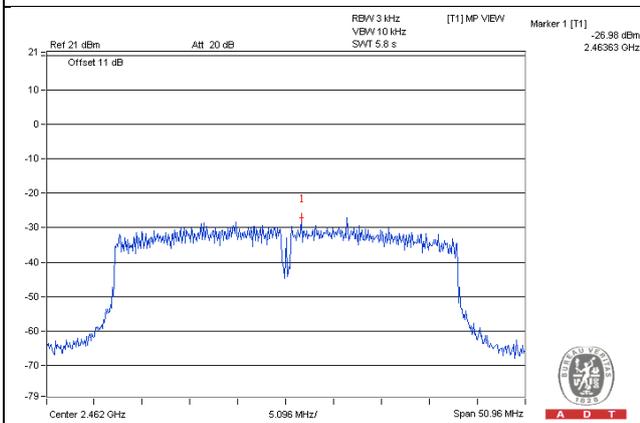
Chain 0 / CH9

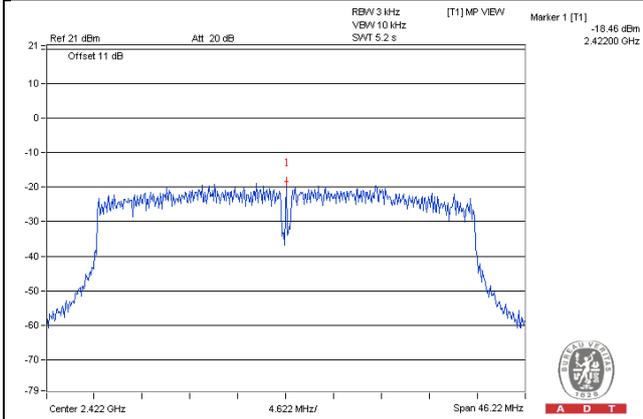
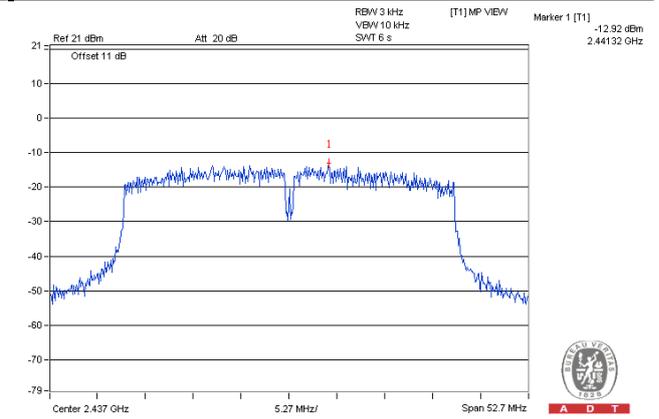
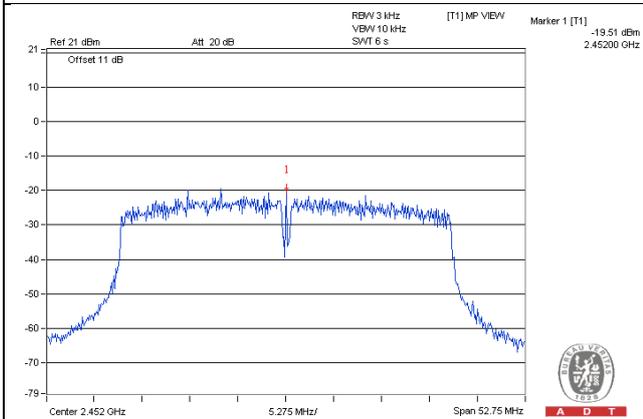
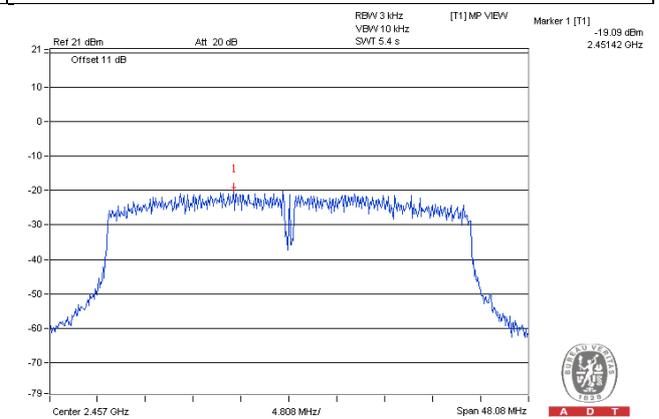
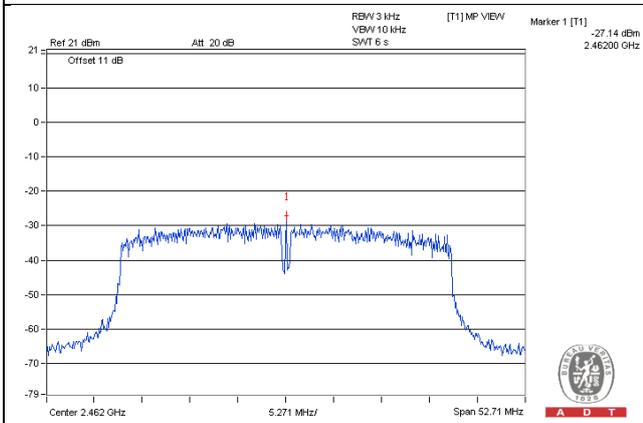


Chain 0 / CH10



Chain 0 / CH11



Chain 1 / CH3**Chain 1 / CH6****Chain 1 / CH9****Chain 1 / CH10****Chain 1 / CH11**

4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSP 40	100060	May 08, 2014	May 07, 2015

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date :Feb. 24, 2015

4.3.4 Test Procedures

- a. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

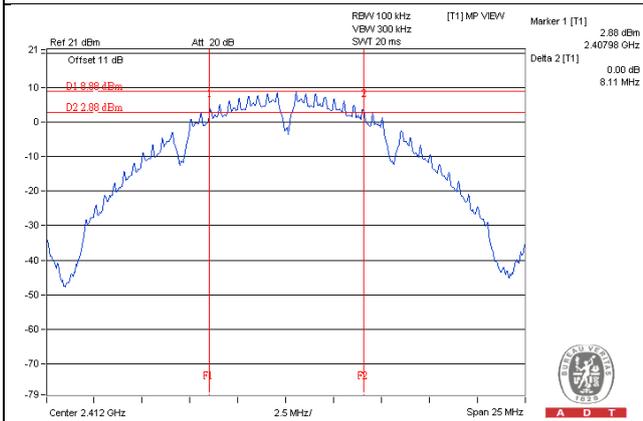
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results

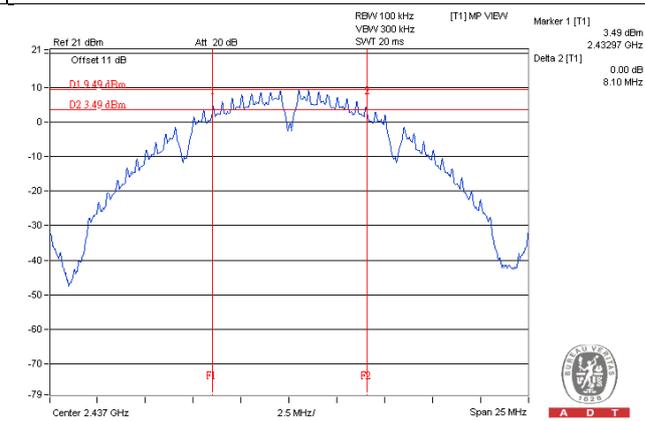
802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.11	8.58	0.5	Pass
6	2437	8.10	8.11	0.5	Pass
11	2462	8.11	8.10	0.5	Pass
12	2467	8.07	8.08	0.5	Pass
13	2472	8.05	8.08	0.5	Pass

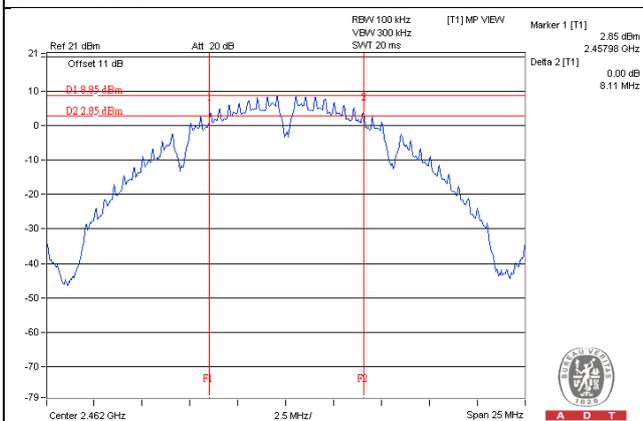
Chain 0 / CH1



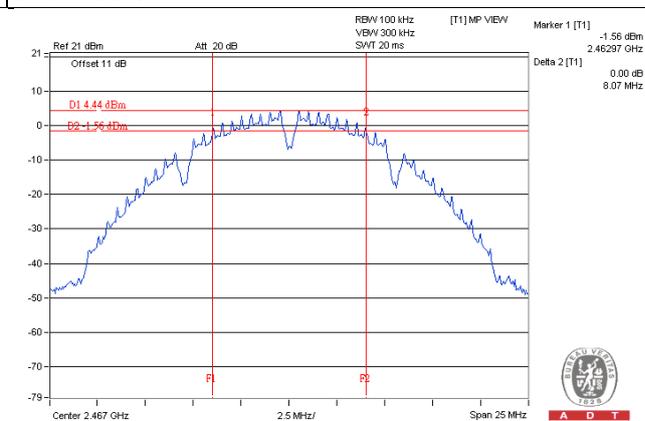
Chain 0 / CH6



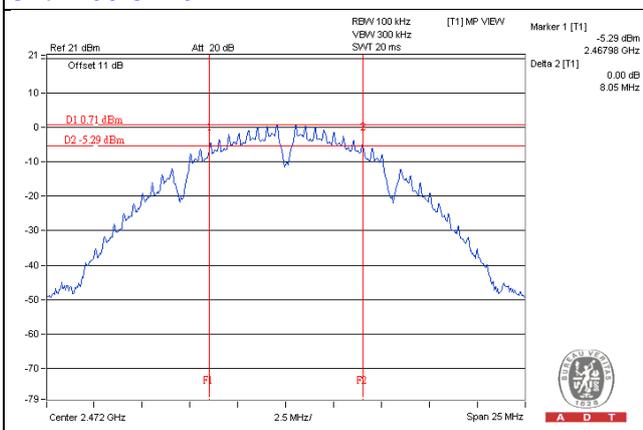
Chain 0 / CH11



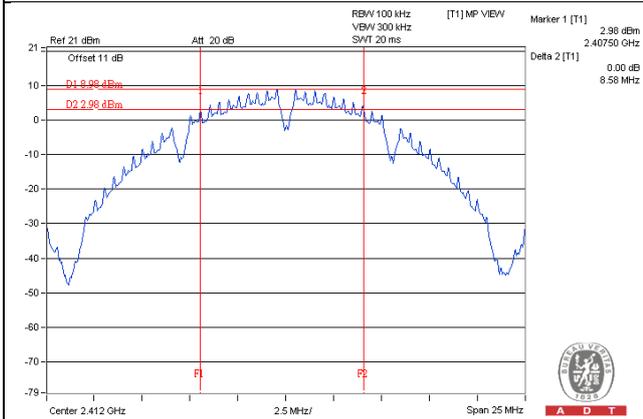
Chain 0 / CH12



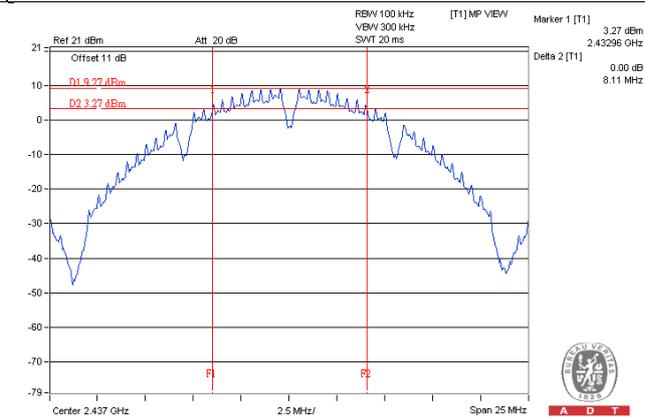
Chain 0 / CH13



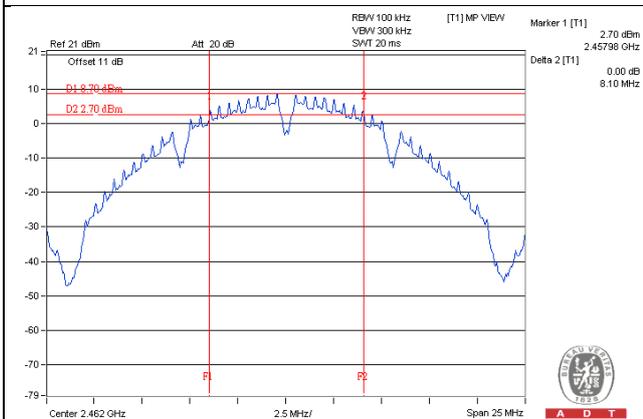
Chain 1 / CH1



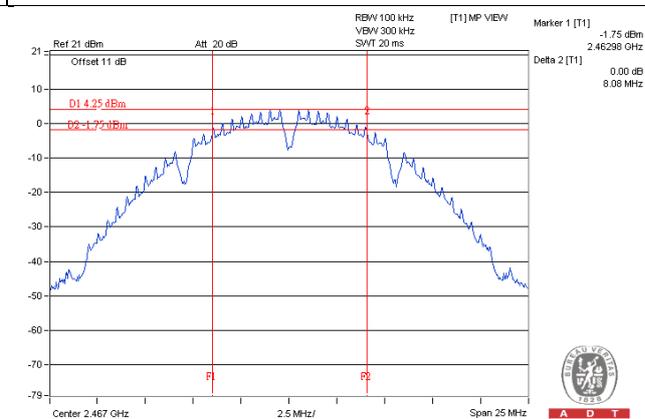
Chain 1 / CH6



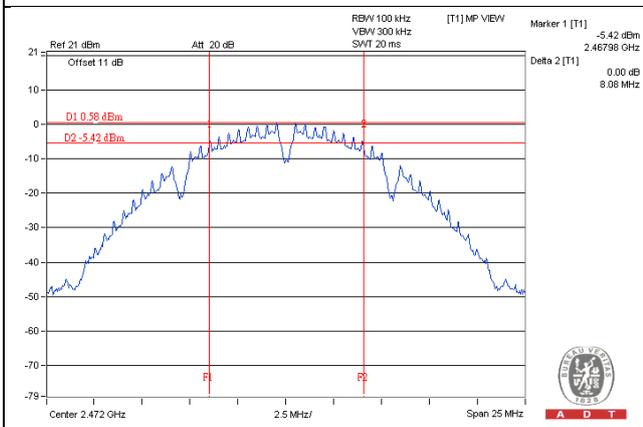
Chain 1 / CH11



Chain 1 / CH12



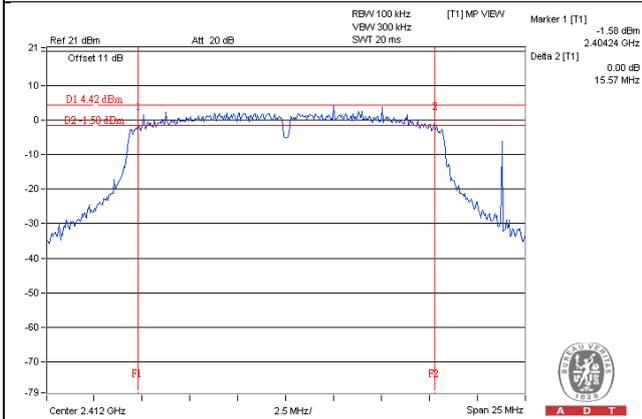
Chain 1 / CH13



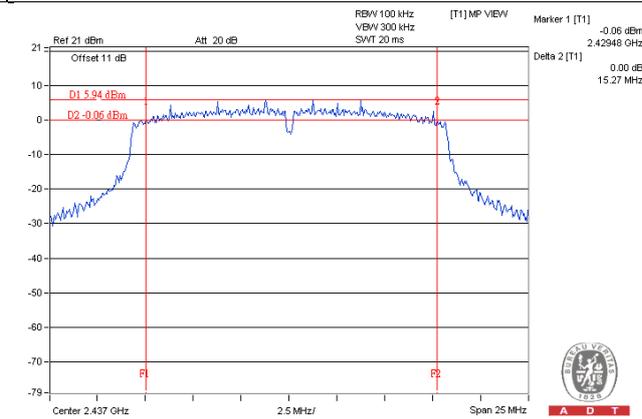
802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	15.57	15.58	0.5	Pass
6	2437	15.27	15.72	0.5	Pass
11	2462	15.33	15.19	0.5	Pass
12	2467	15.33	15.73	0.5	Pass
13	2472	15.51	15.47	0.5	Pass

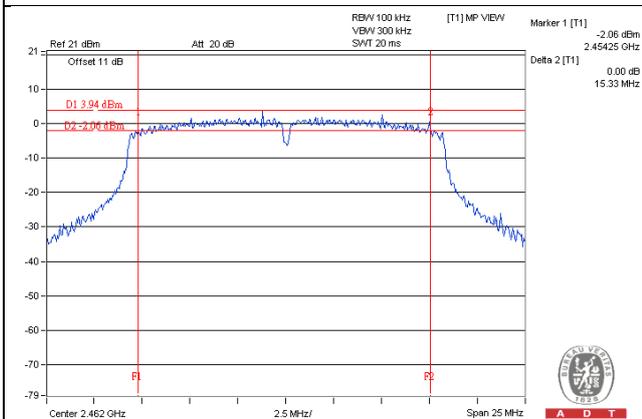
Chain 0 / CH1



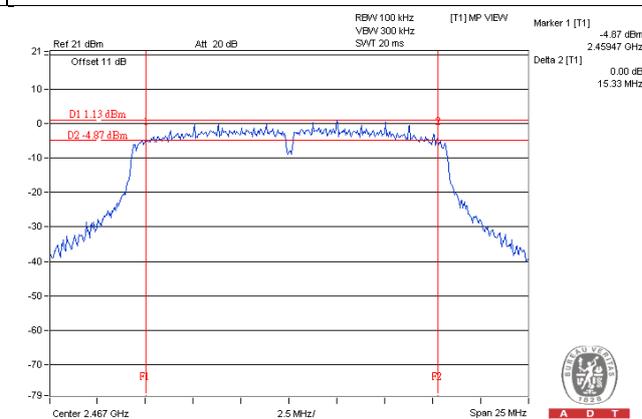
Chain 0 / CH6



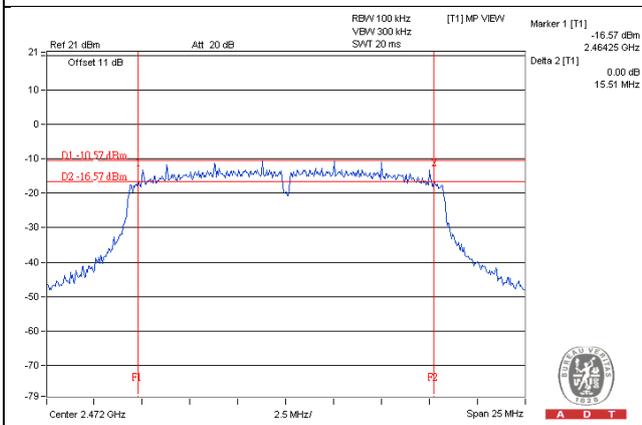
Chain 0 / CH11

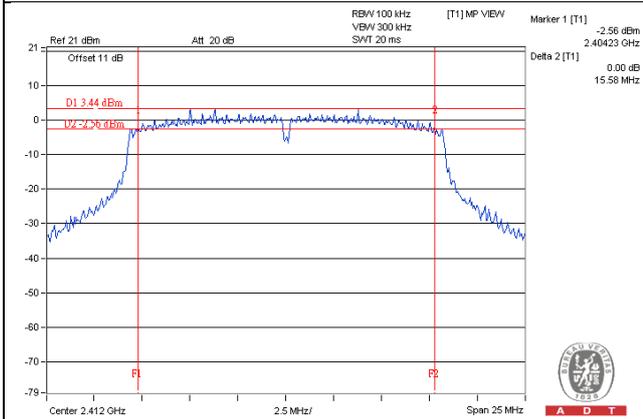
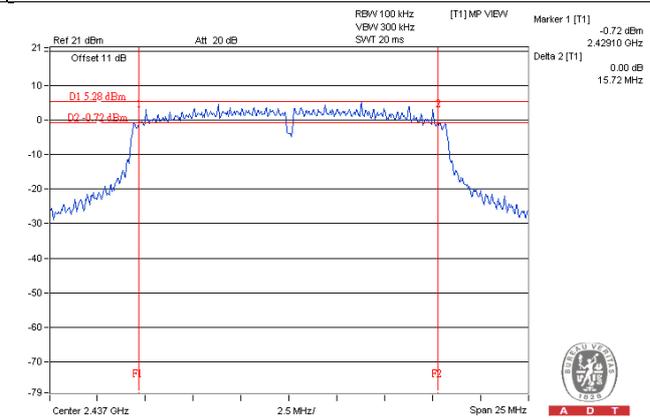
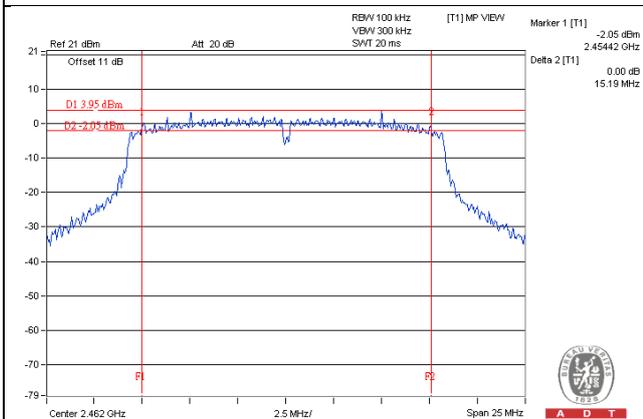
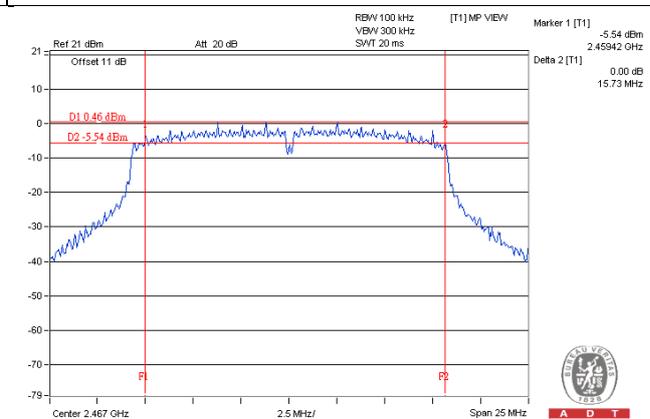
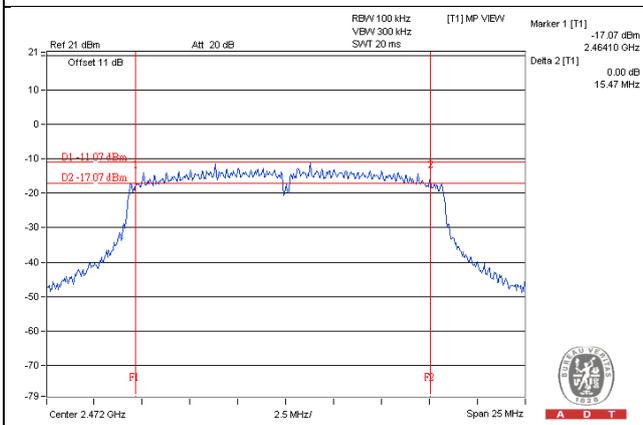


Chain 0 / CH12



Chain 0 / CH13

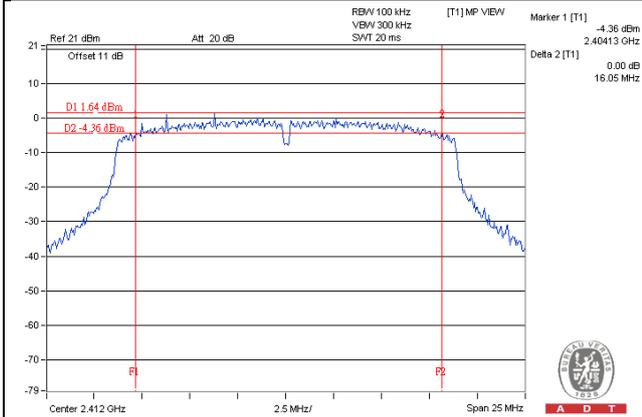


Chain 1 / CH1

Chain 1 / CH6

Chain 1 / CH11

Chain 1 / CH12

Chain 1 / CH13


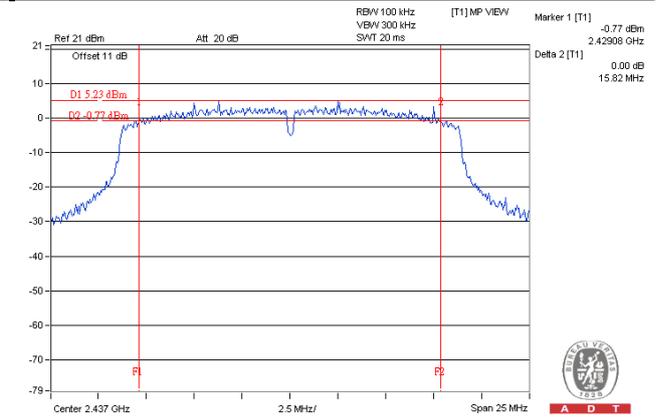
VHT20

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.05	15.39	0.5	Pass
6	2437	15.82	15.52	0.5	Pass
11	2462	15.39	16.35	0.5	Pass
12	2467	15.11	16.35	0.5	Pass
13	2472	15.38	16.32	0.5	Pass

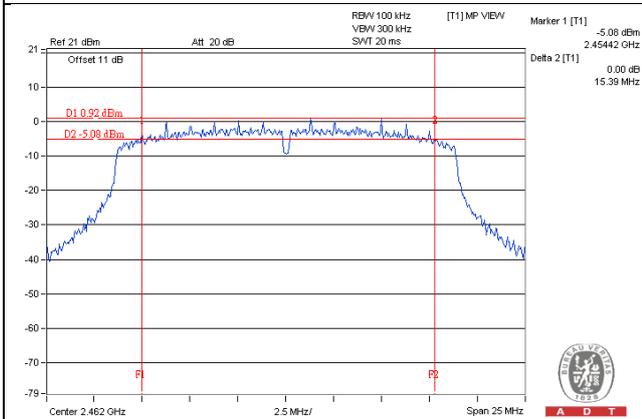
Chain 0 / CH1



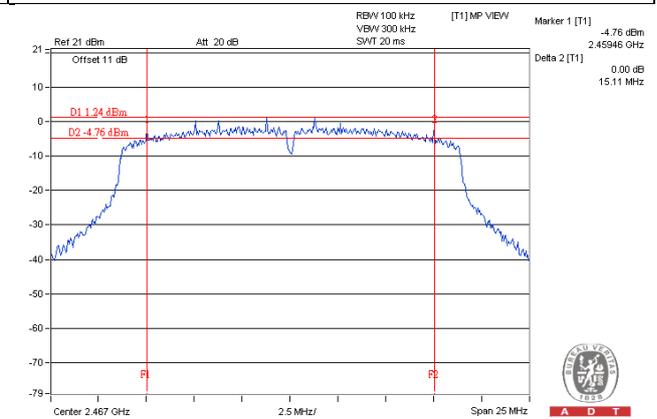
Chain 0 / CH6



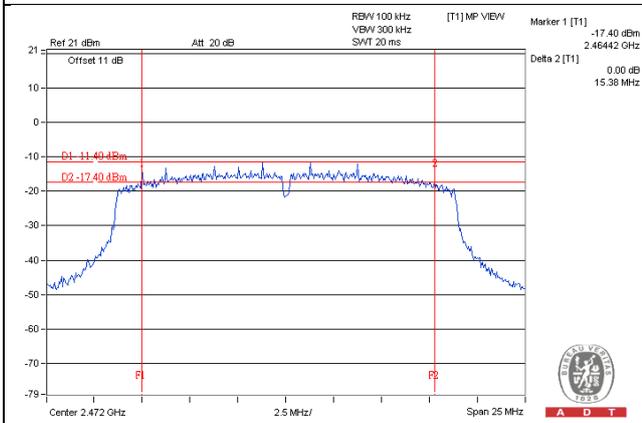
Chain 0 / CH11

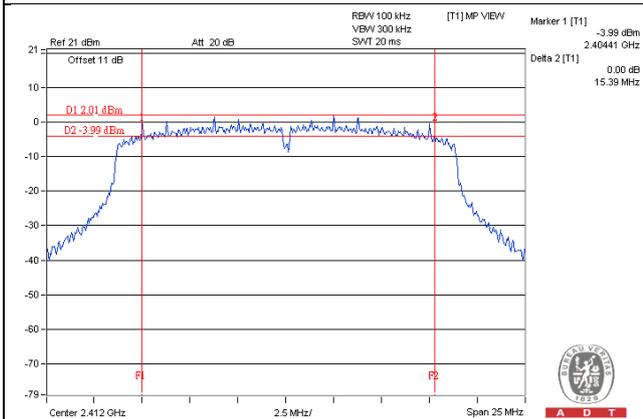
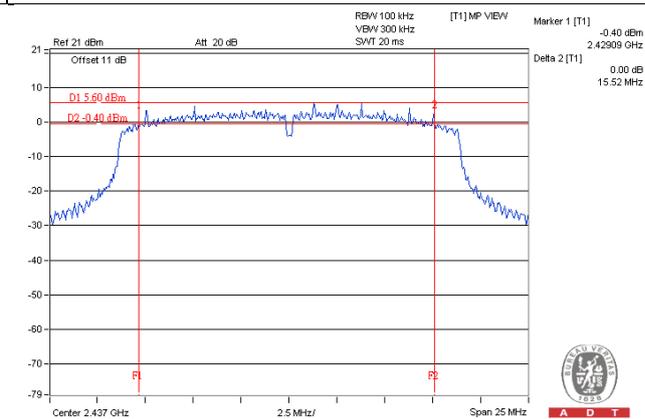
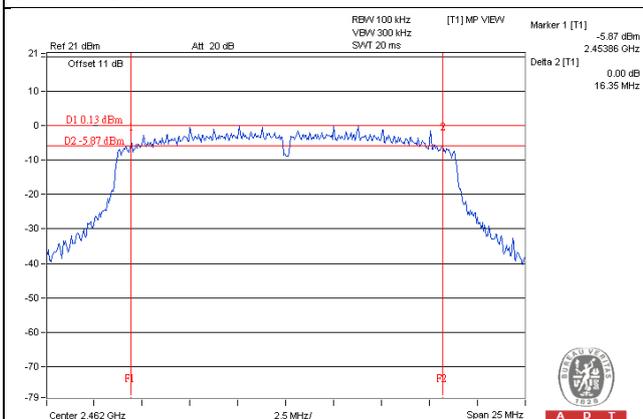
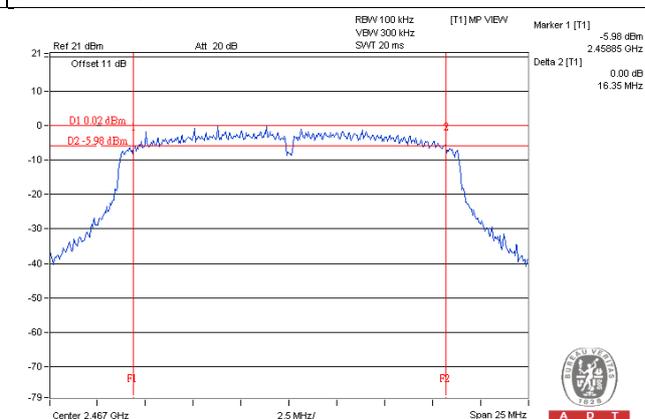
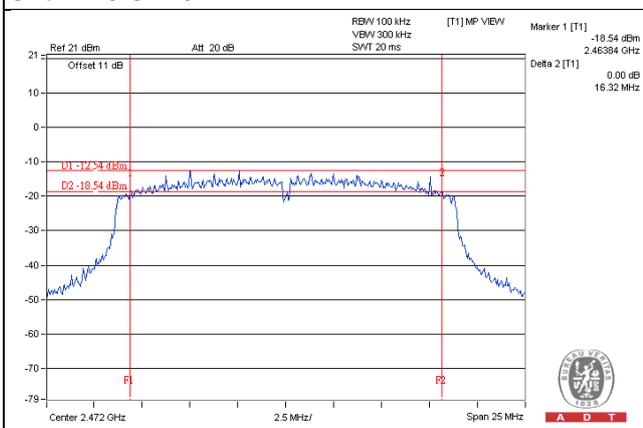


Chain 0 / CH12



Chain 0 / CH13

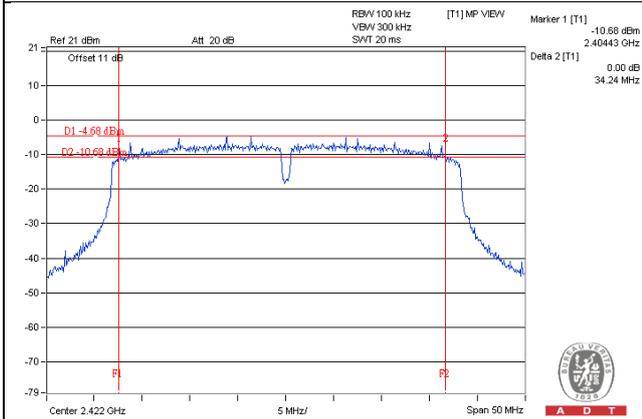


Chain 1 / CH1

Chain 1 / CH6

Chain 1 / CH11

Chain 1 / CH12

Chain 1 / CH13


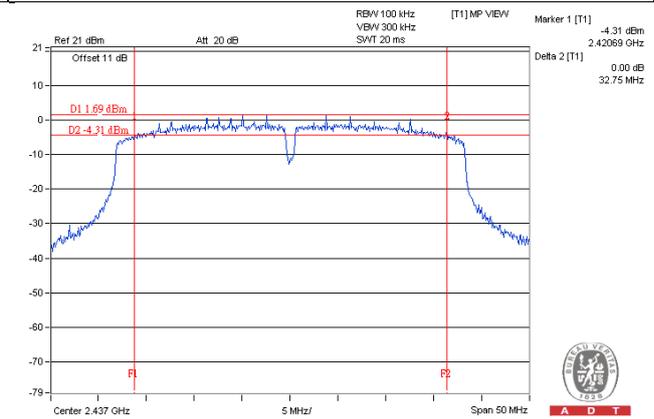
VHT40

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	34.24	30.81	0.5	Pass
6	2437	32.75	35.14	0.5	Pass
9	2452	34.27	35.17	0.5	Pass
10	2457	33.85	32.06	0.5	Pass
11	2462	33.98	35.15	0.5	Pass

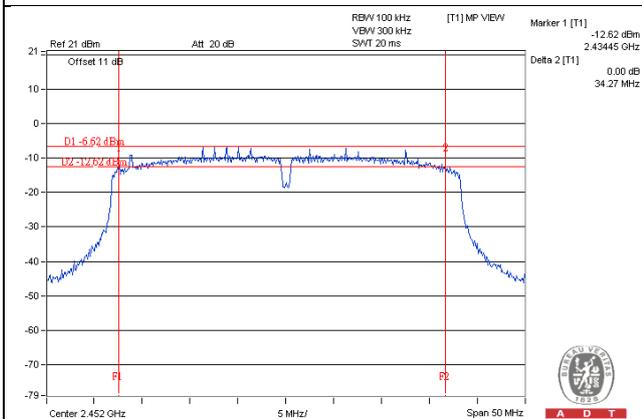
Chain 0 / CH3



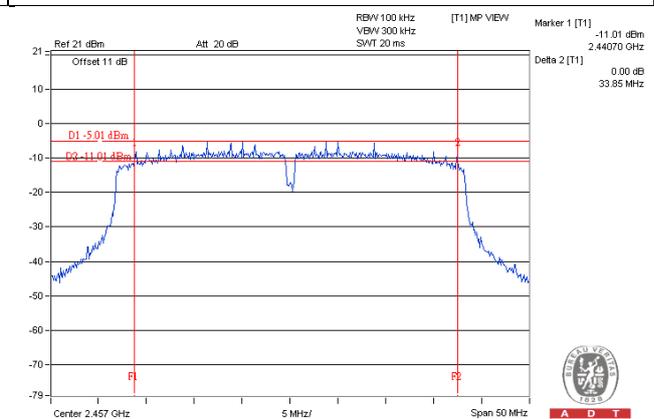
Chain 0 / CH6



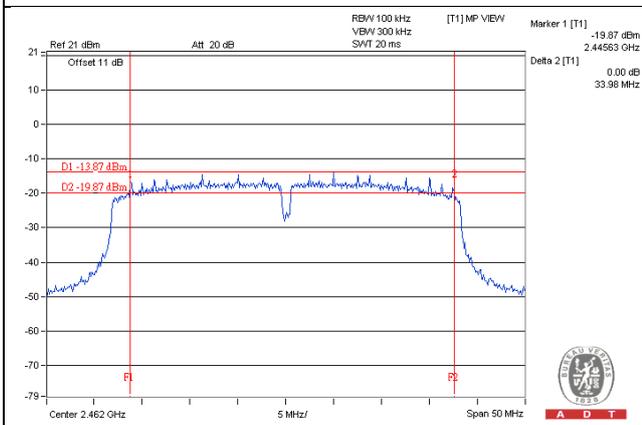
Chain 0 / CH9



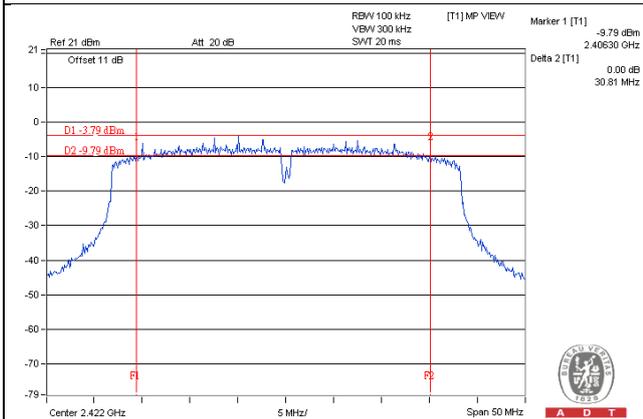
Chain 0 / CH10



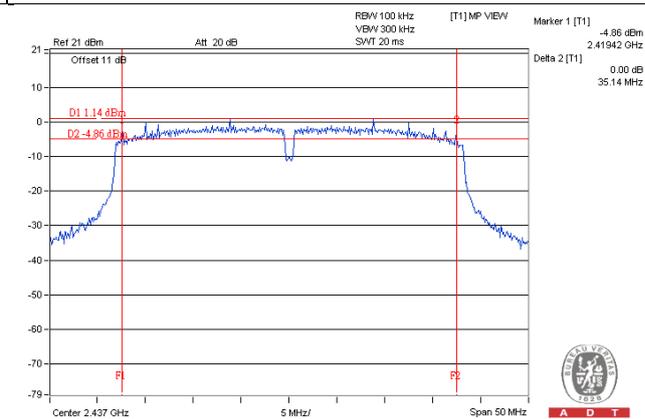
Chain 0 / CH11



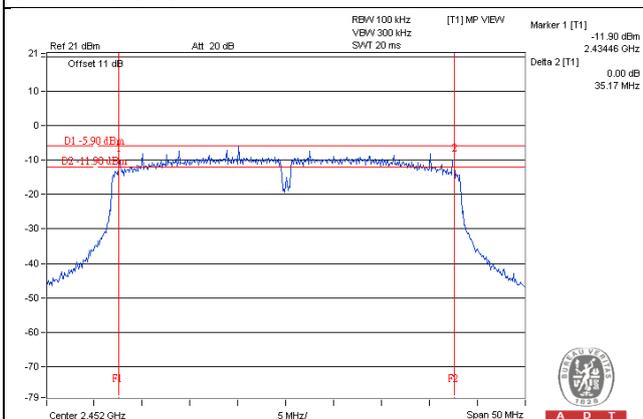
Chain 1 / CH3



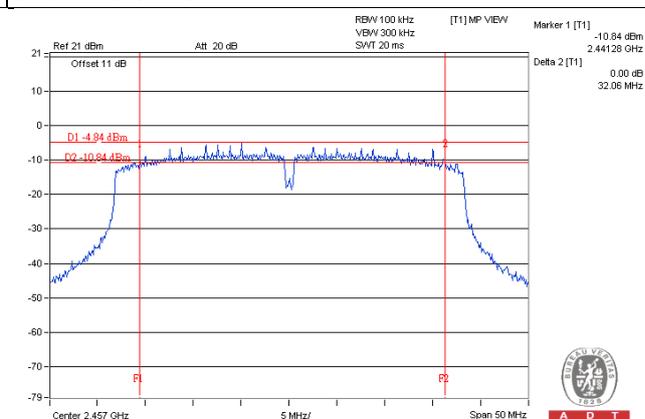
Chain 1 / CH6



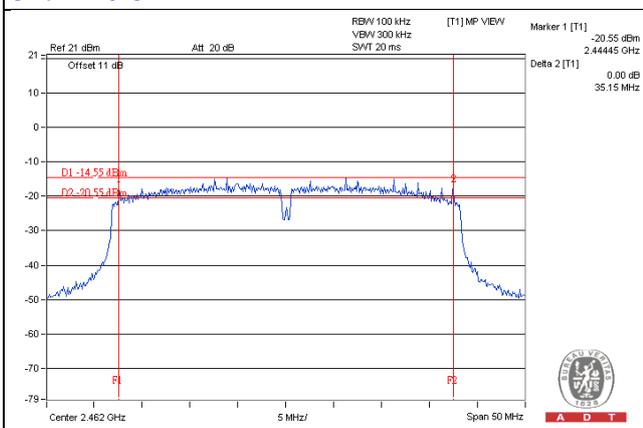
Chain 1 / CH9



Chain 1 / CH10



Chain 1 / CH11

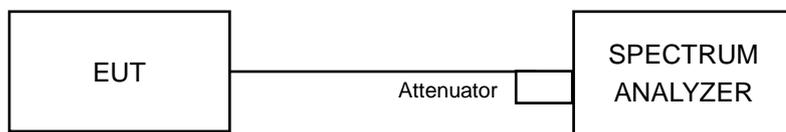


4.4 Conducted Out of Band Emission Measurement

4.4.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.4.2 Test Setup



4.4.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSP 40	100060	May 08, 2014	May 07, 2015

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date :Feb. 24, 2015

4.4.4 Test Procedures

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW ≥ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW ≥ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

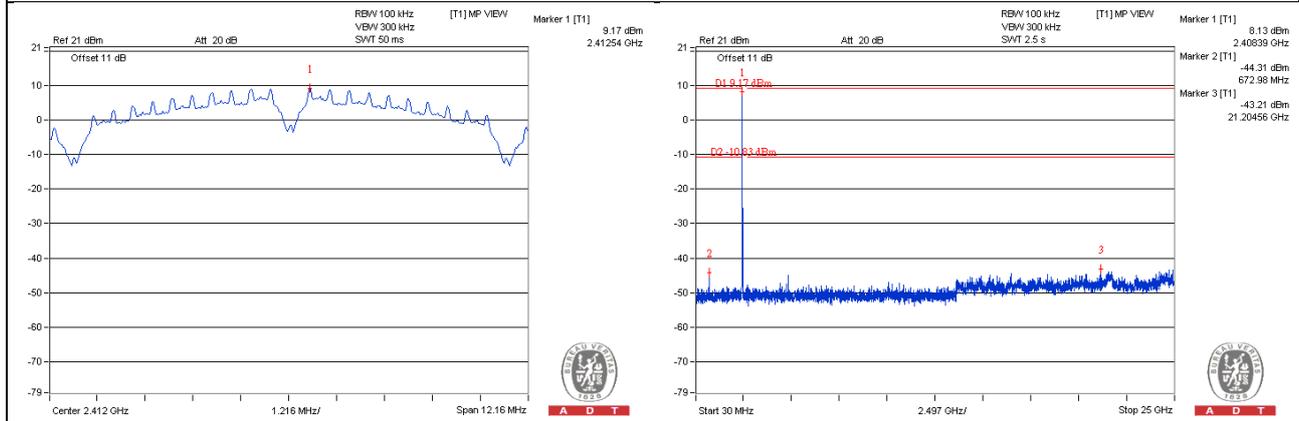
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.7 Test Results

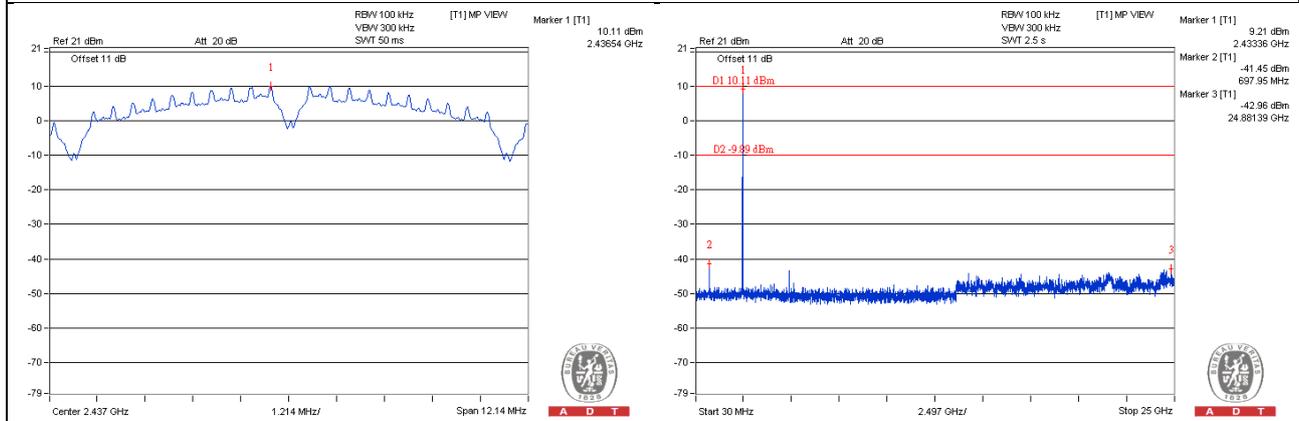
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

802.11b
Chain 0

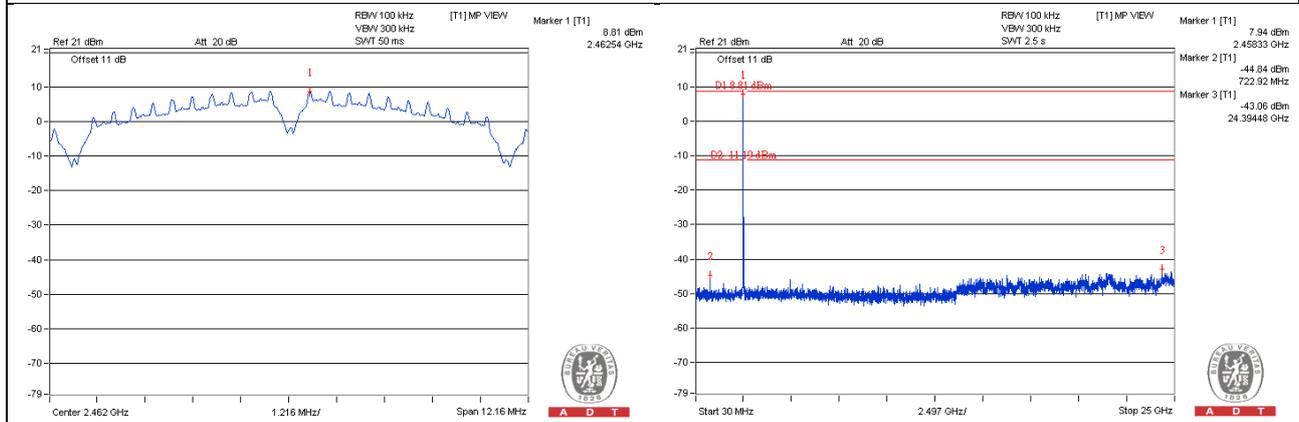
CH 1



CH 6

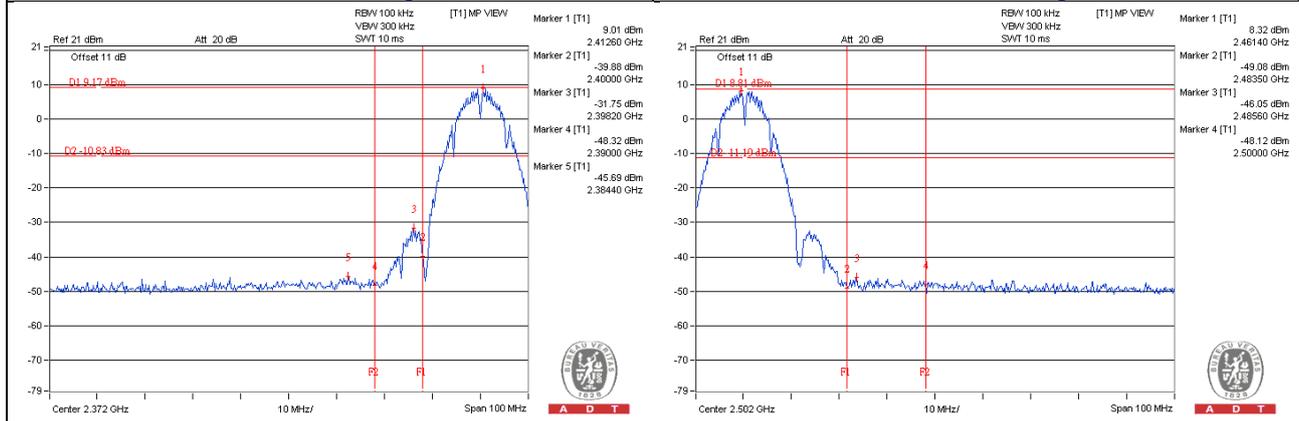


CH 11

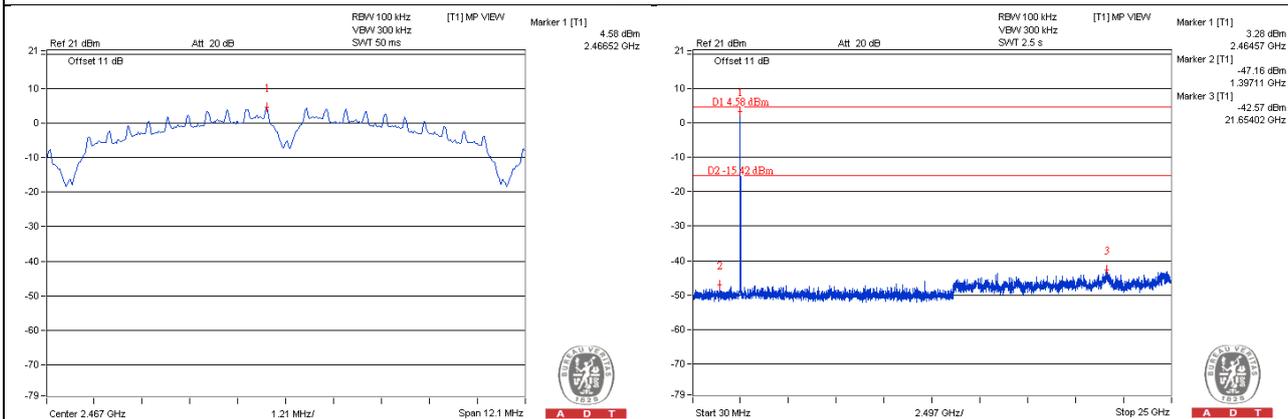


CH 1 Band edge

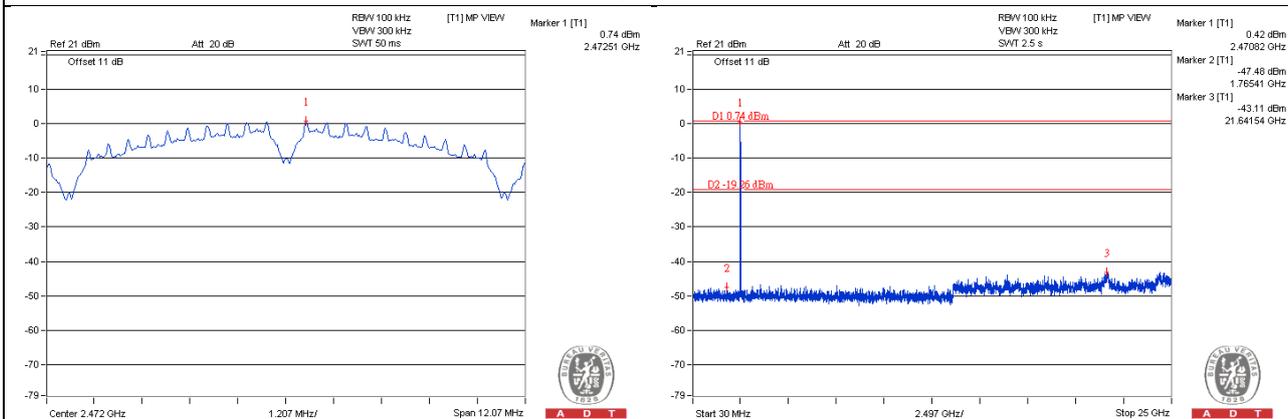
CH 11 Band edge



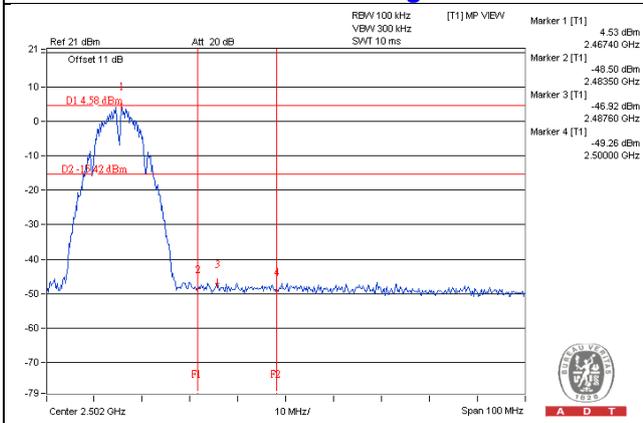
CH 12



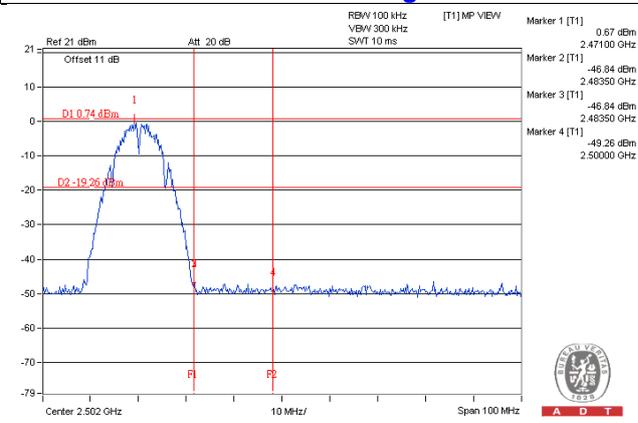
CH 13



CH 12 Band edge

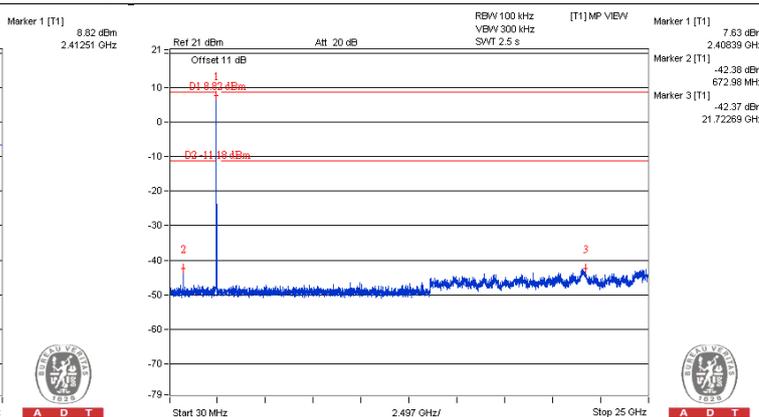
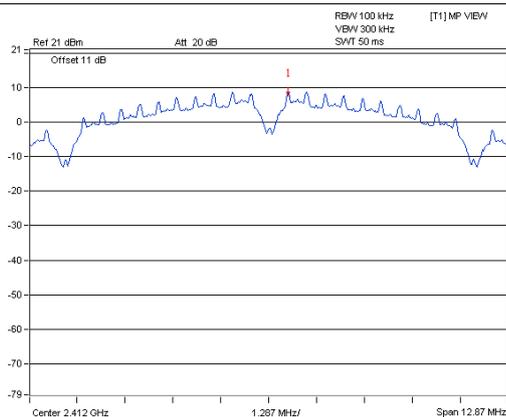


CH 13 Band edge

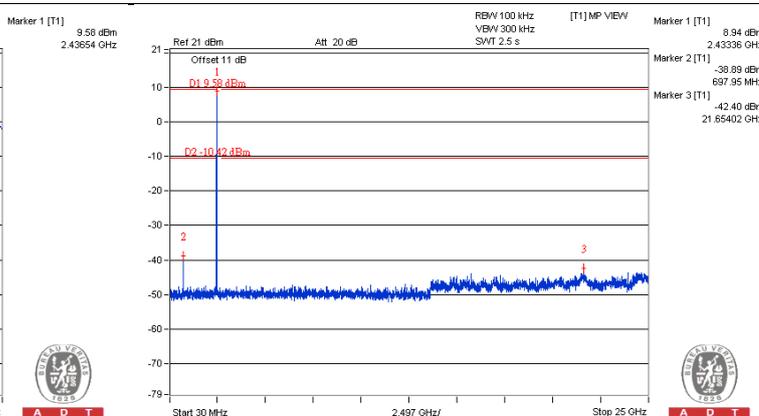
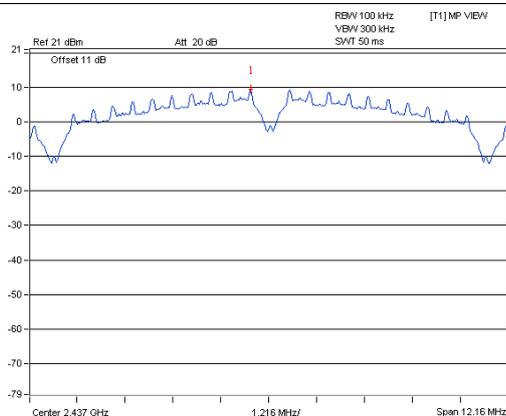


Chain 1

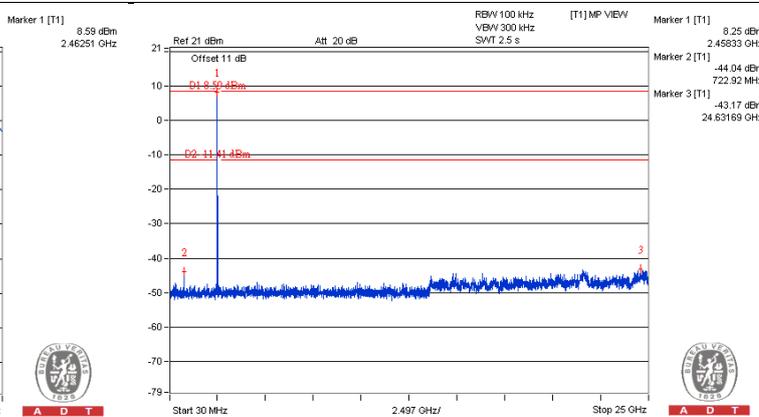
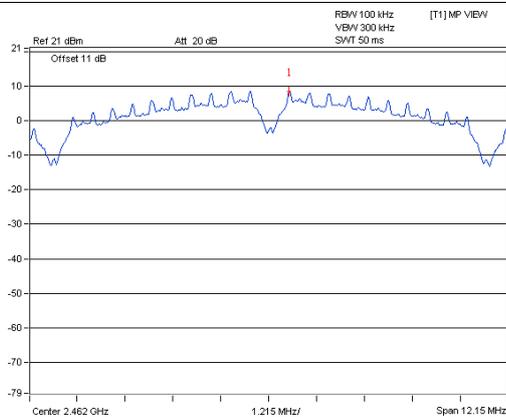
CH 1



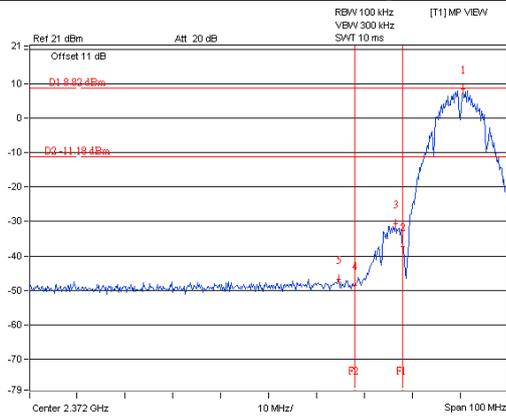
CH 6



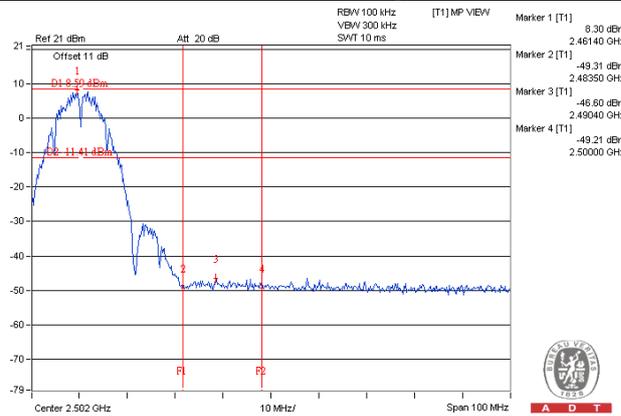
CH 11



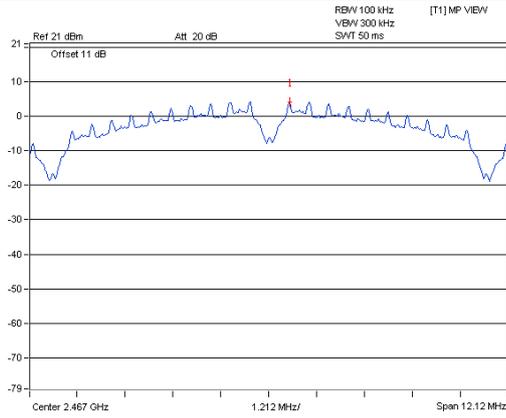
CH 1 Band edge



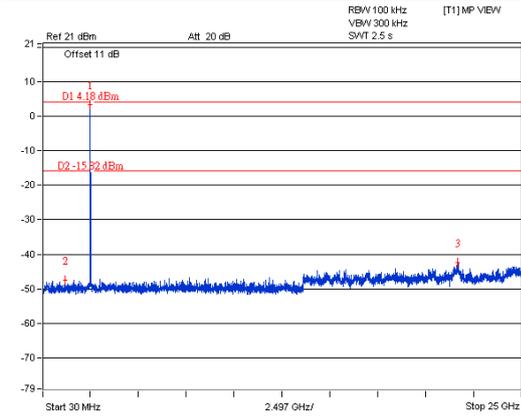
CH 11 Band edge



CH 12

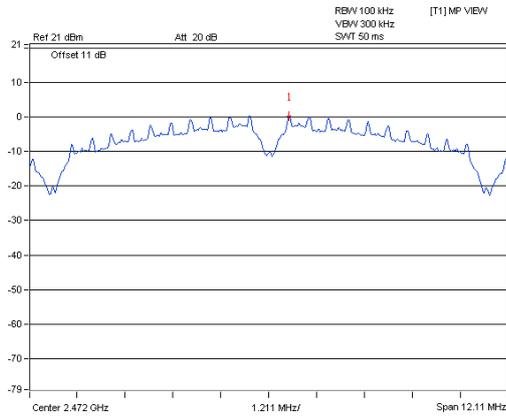


A D T

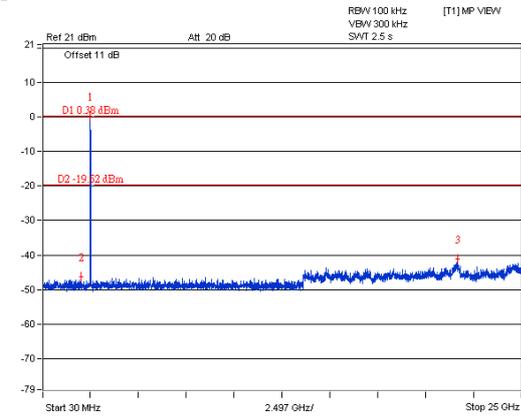


A D T

CH 13

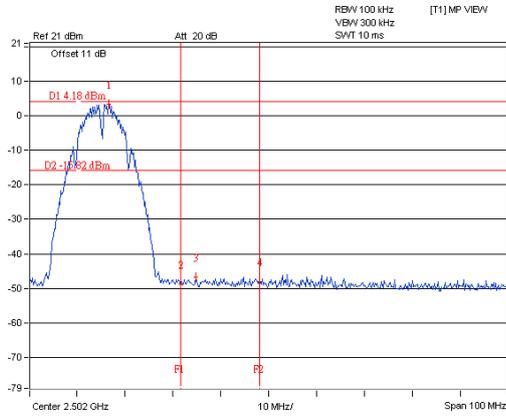


A D T



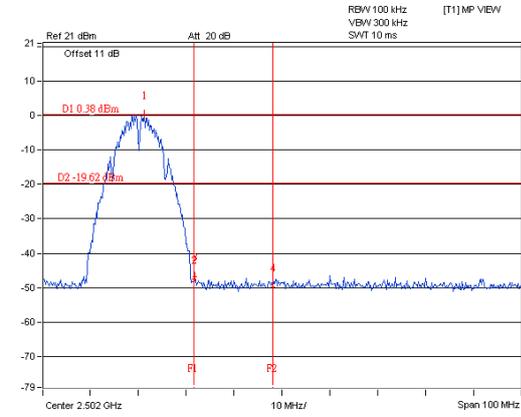
A D T

CH 12 Band edge



A D T

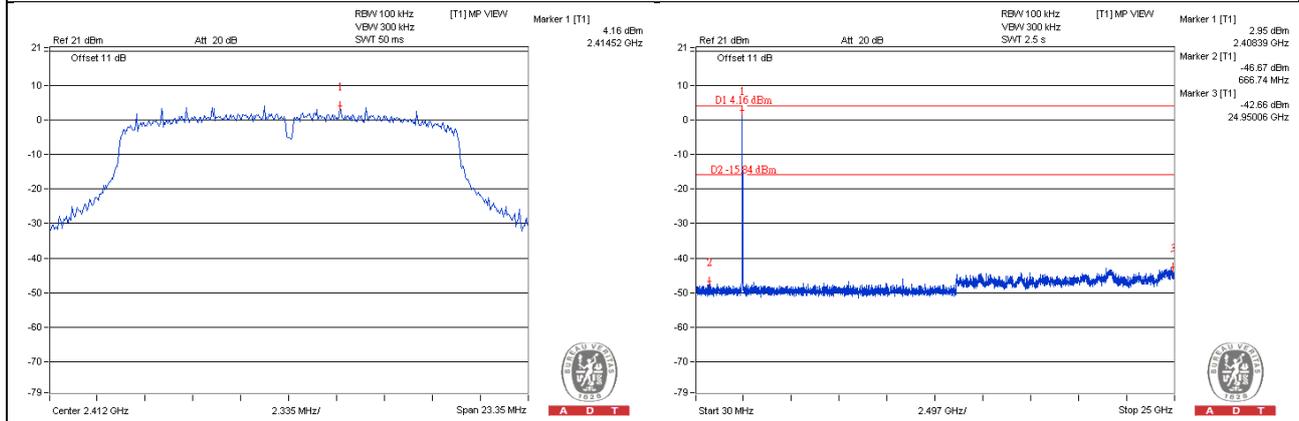
CH 13 Band edge



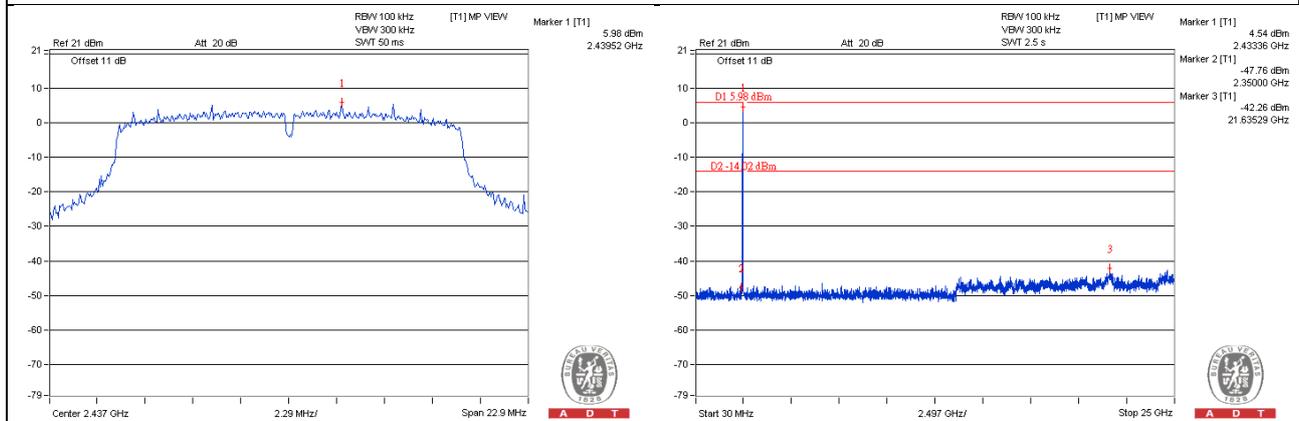
A D T

802.11g
Chain 0

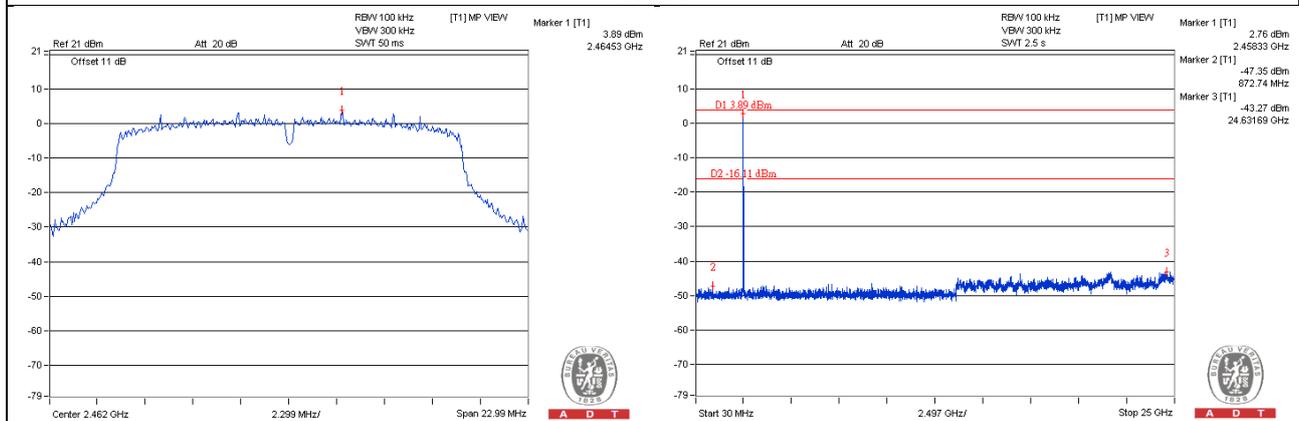
CH 1



CH 6

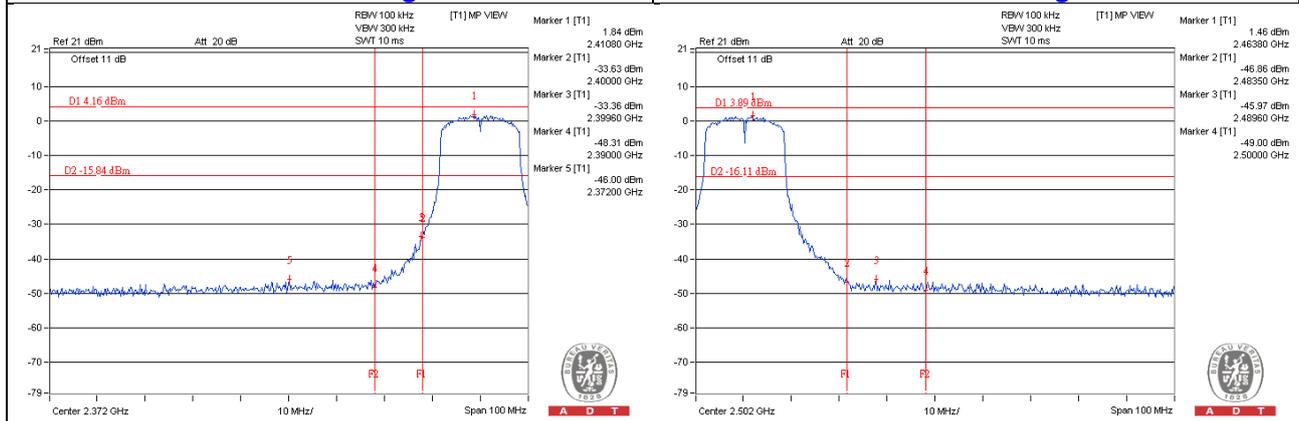


CH 11

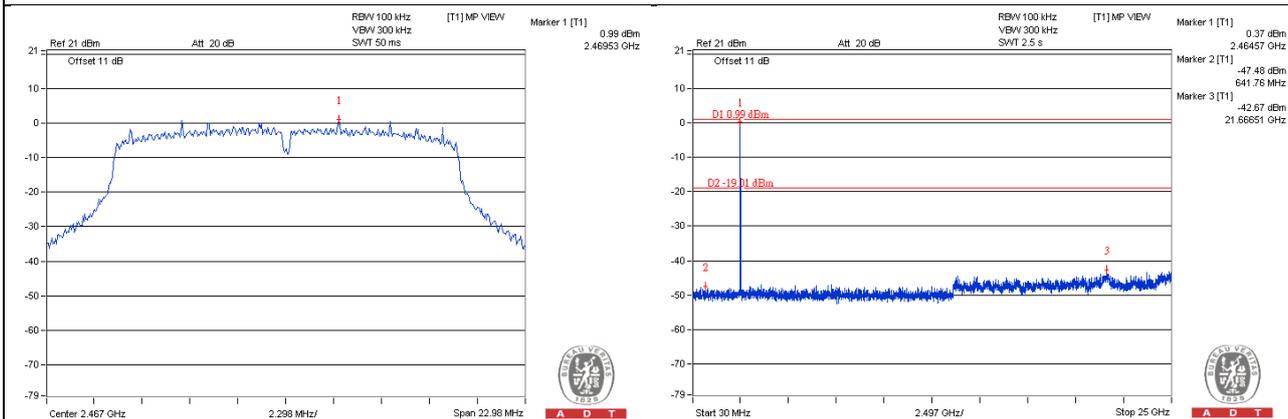


CH 1 Band edge

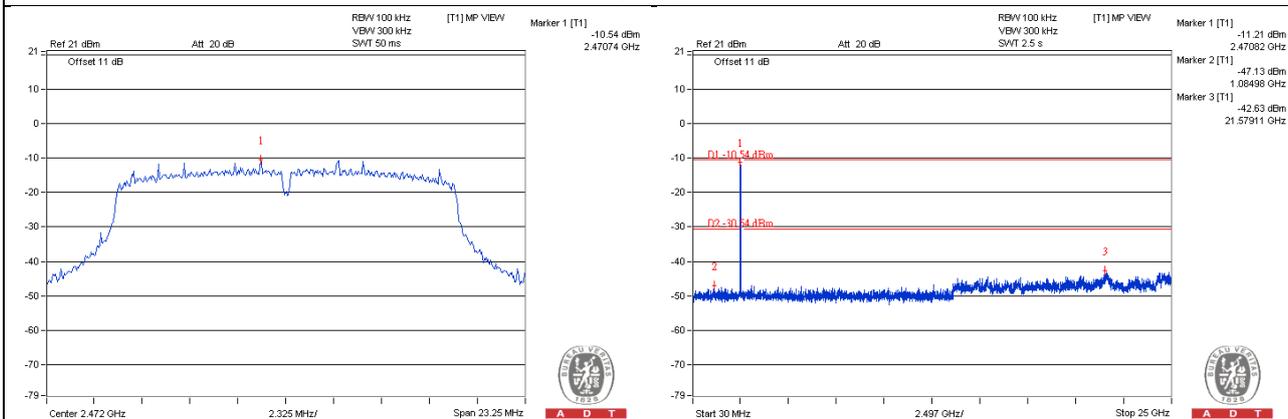
CH 11 Band edge



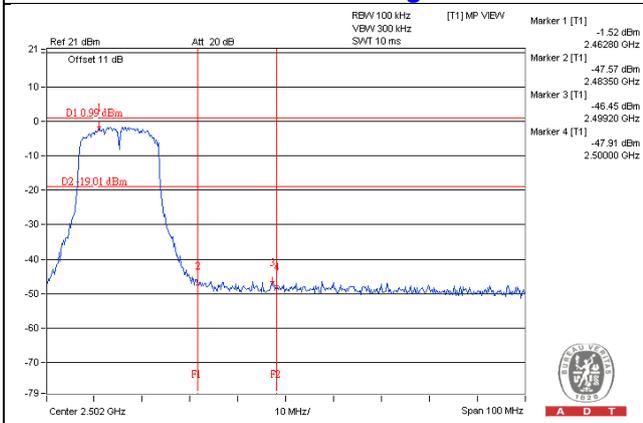
CH 12



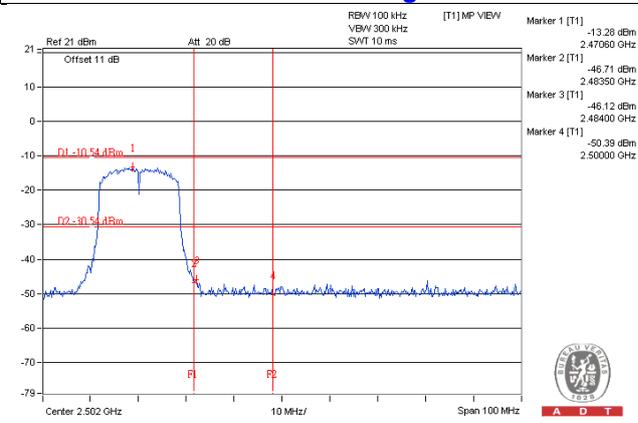
CH 13



CH 12 Band edge

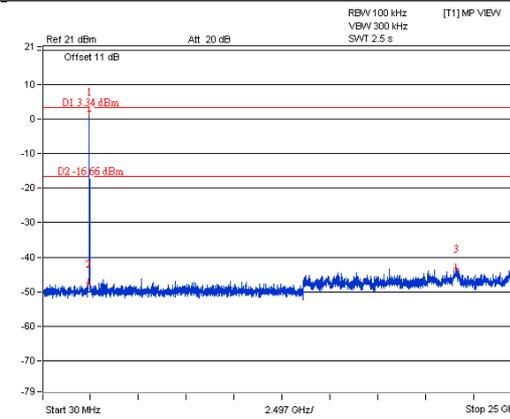
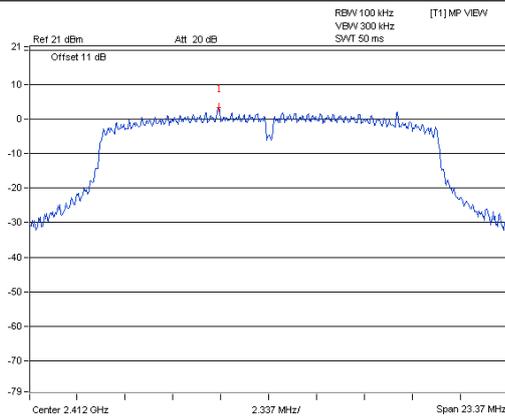


CH 13 Band edge

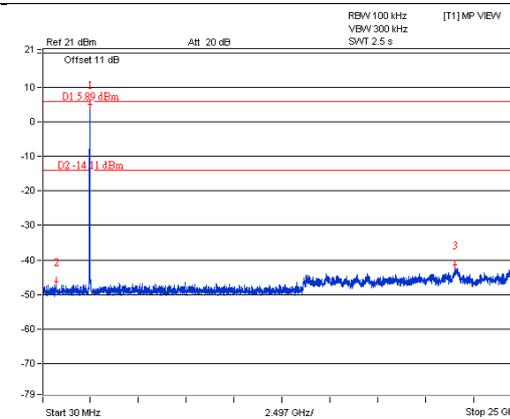
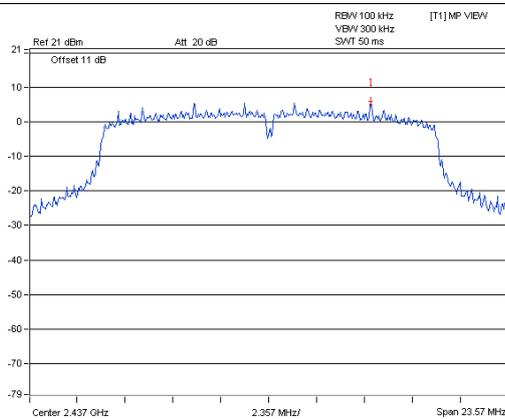


Chain 1

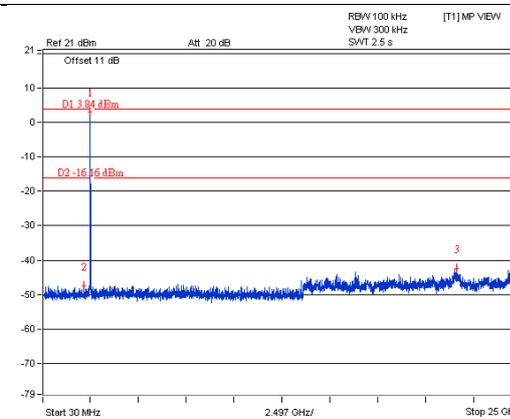
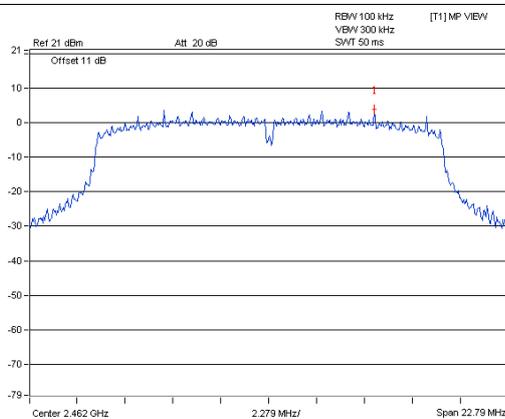
CH 1



CH 6

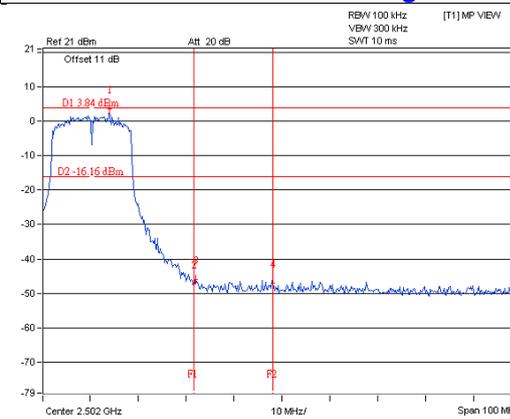
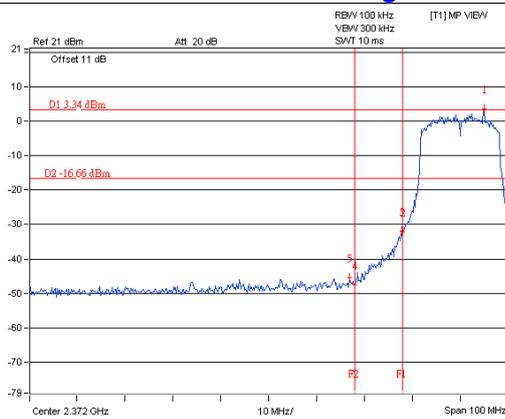


CH 11

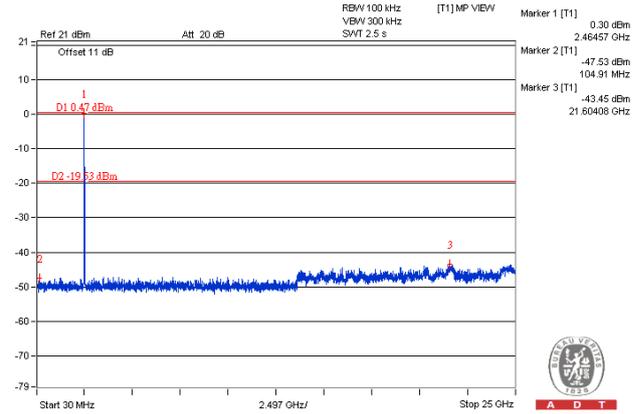
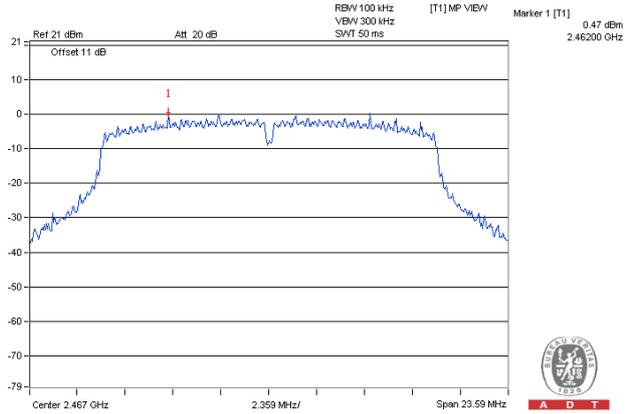


CH 1 Band edge

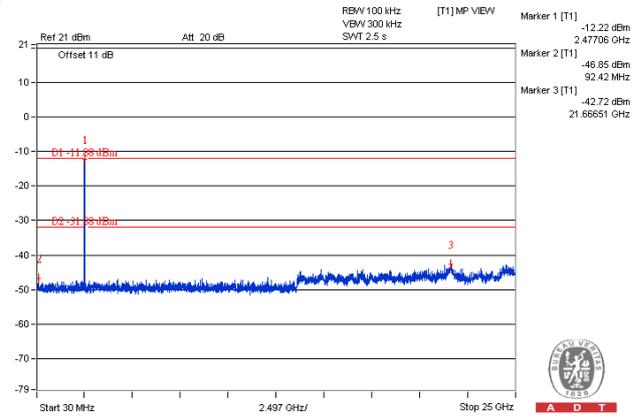
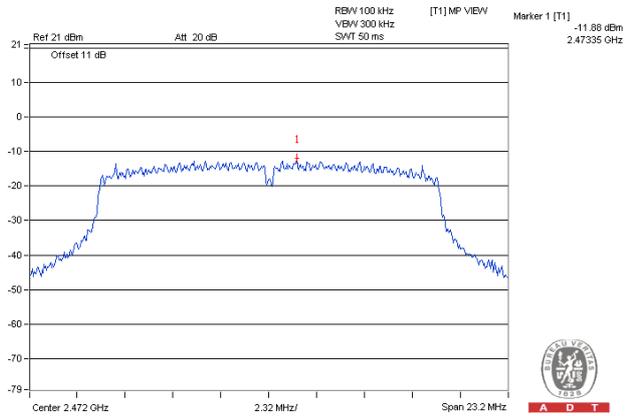
CH 11 Band edge



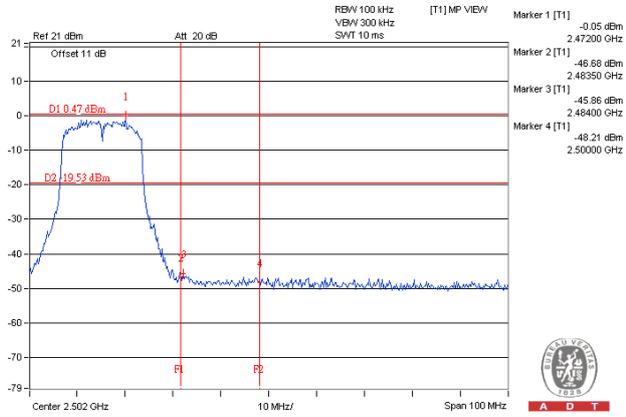
CH 12



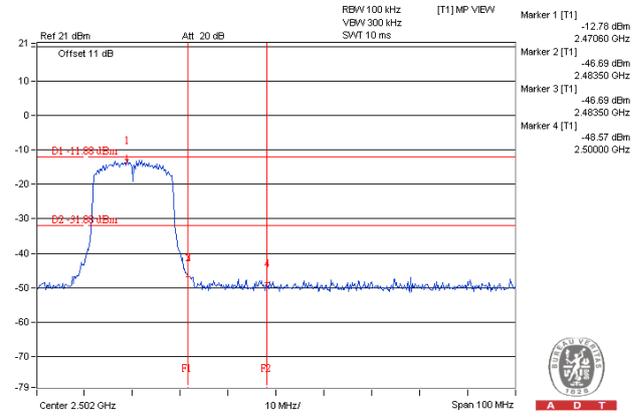
CH 13



CH 12 Band edge

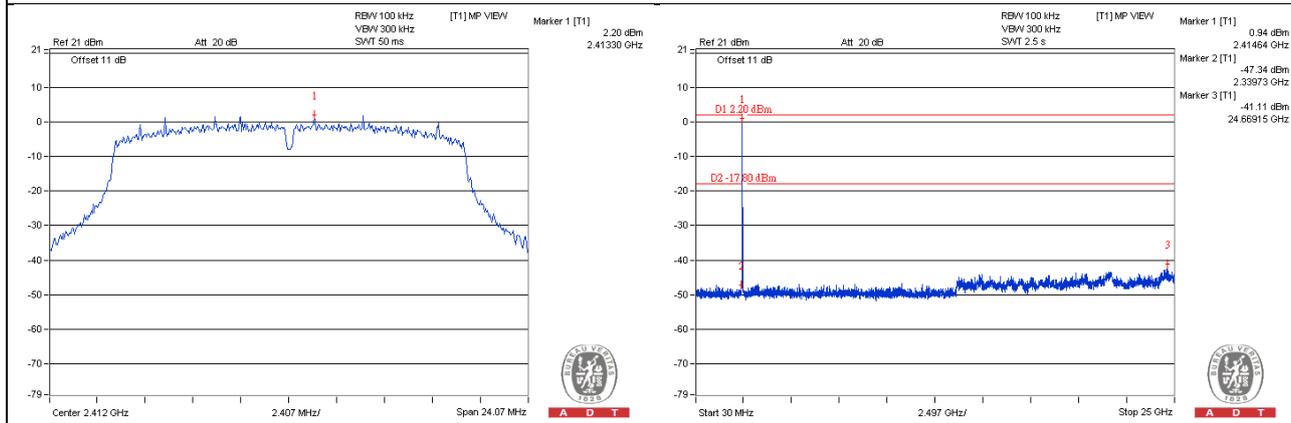


CH 13 Band edge

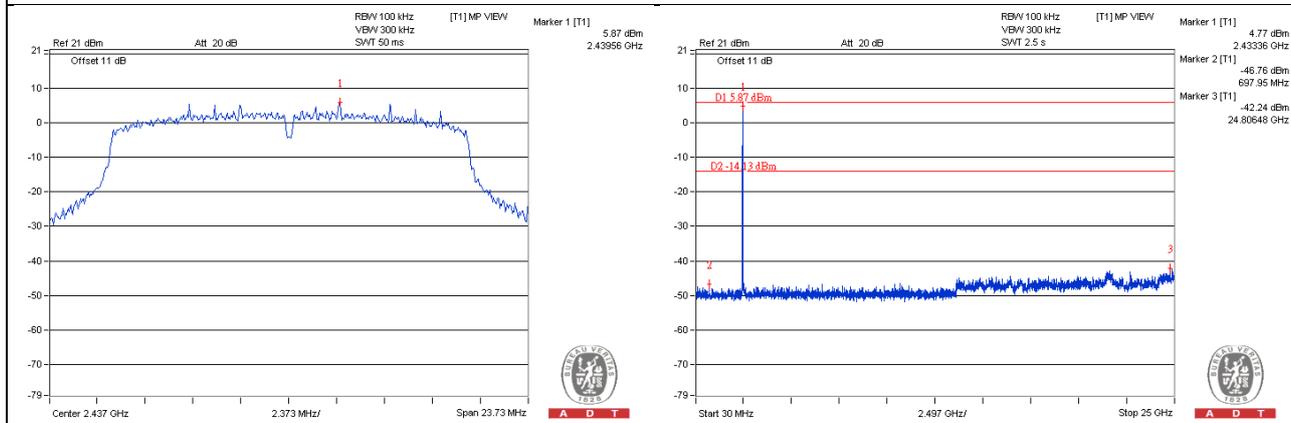


VHT20
Chain 0

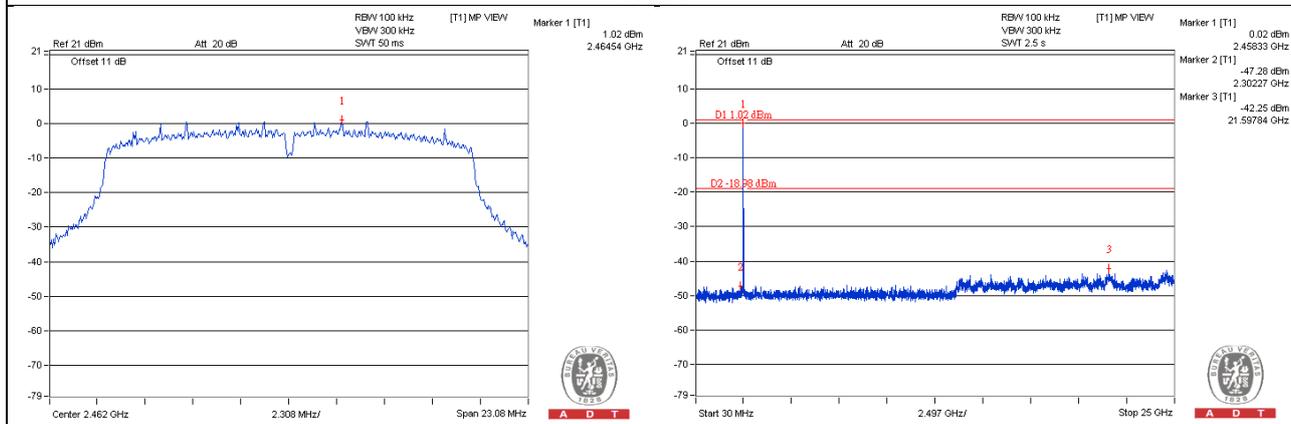
CH 1



CH 6

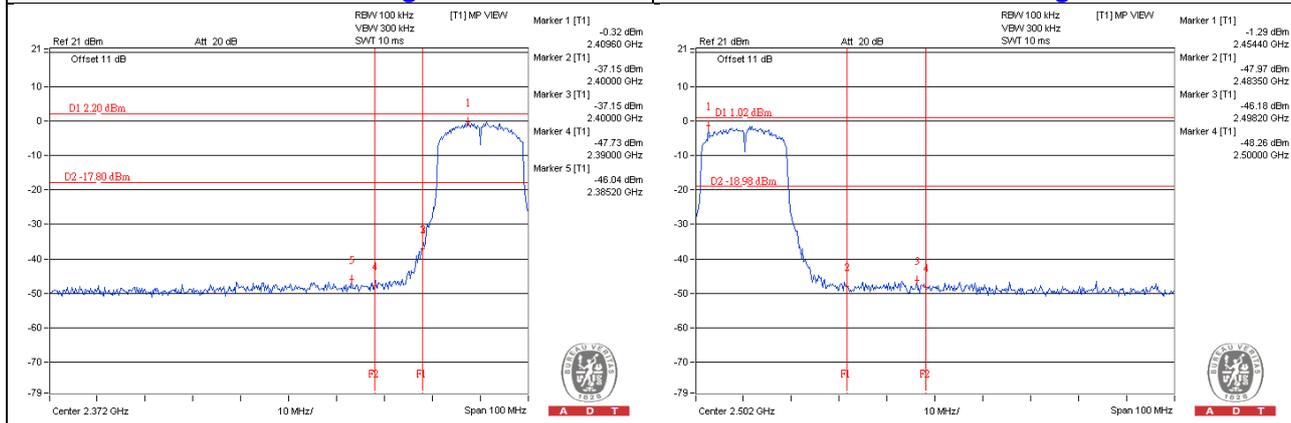


CH 11

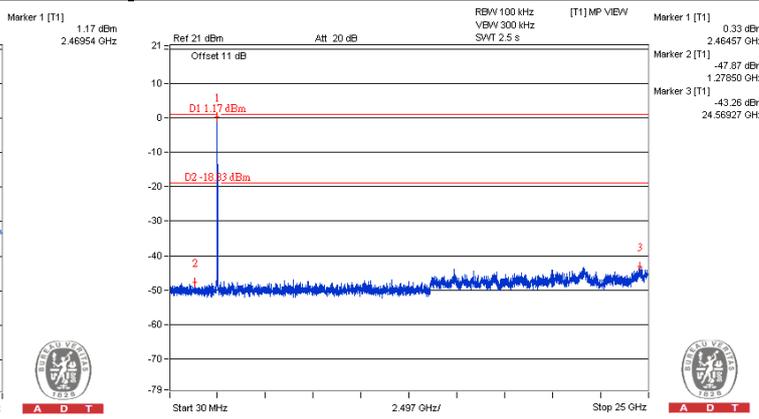
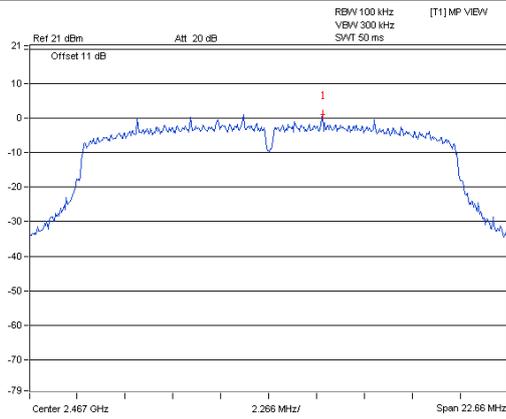


CH 1 Band edge

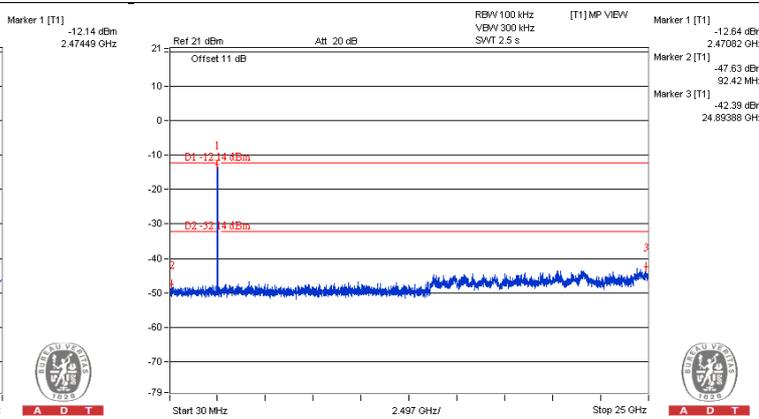
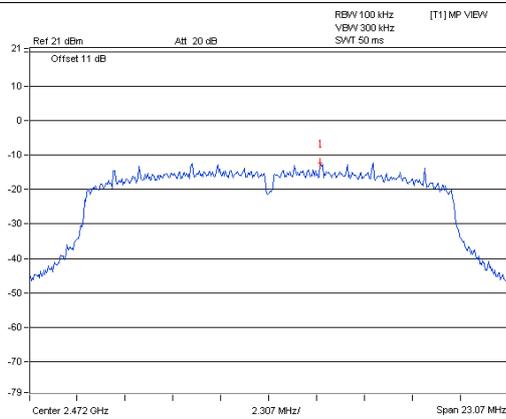
CH 11 Band edge



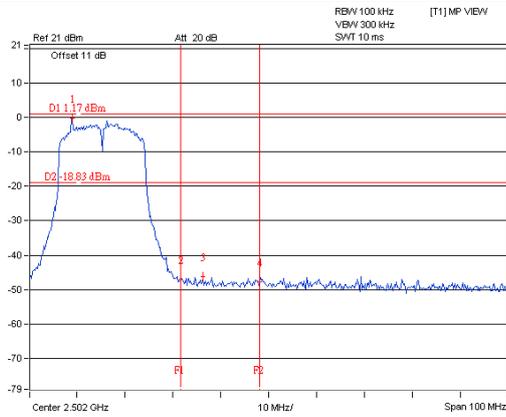
CH 12



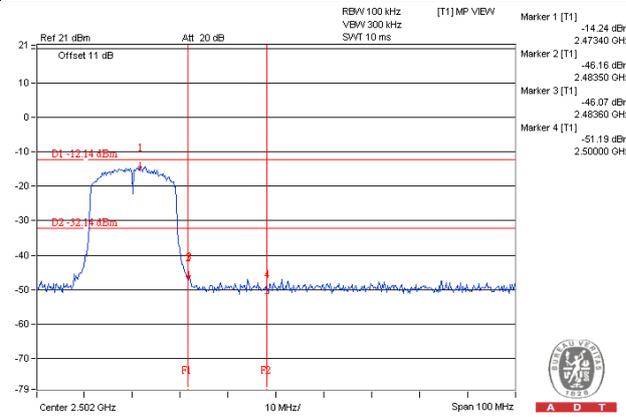
CH 13



CH 12 Band edge

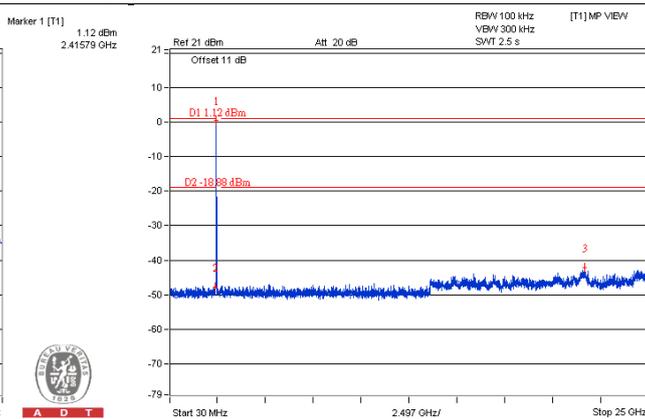
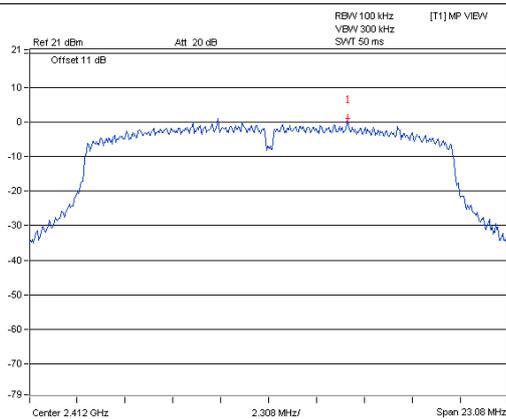


CH 13 Band edge



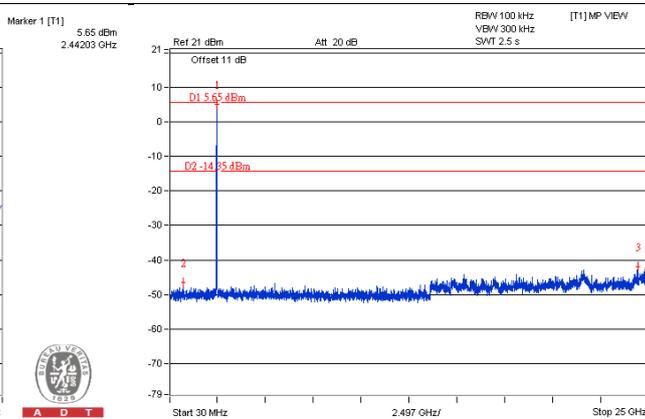
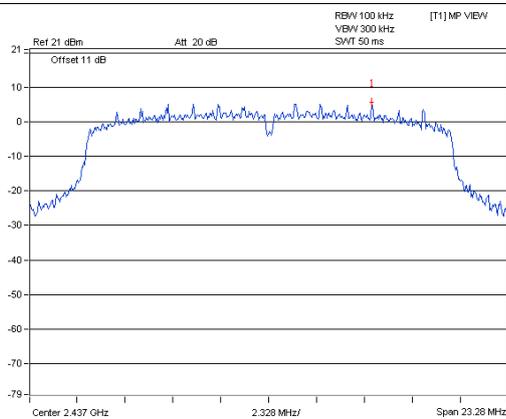
Chain 1

CH 1



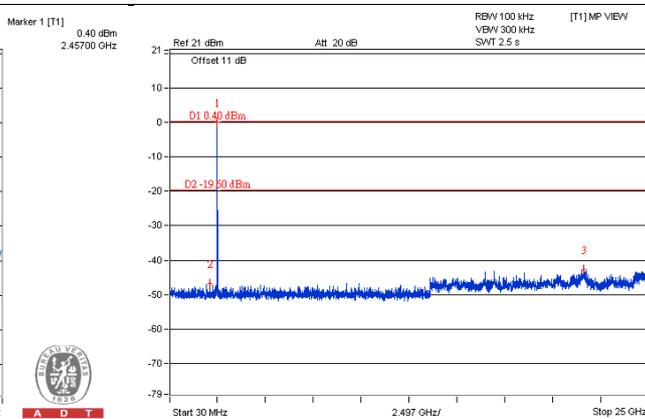
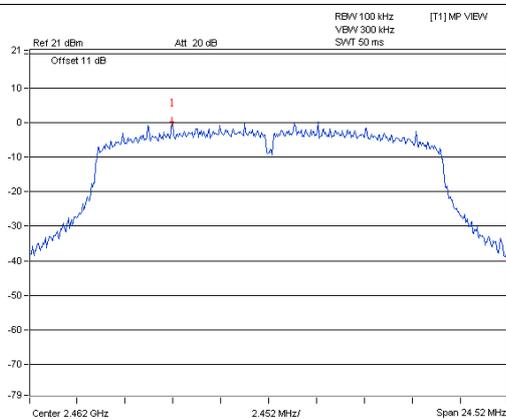
Marker 1 [T1]	0.54 dBm	2.40839 GHz
Marker 2 [T1]	-47.70 dBm	2.35000 GHz
Marker 3 [T1]	-42.21 dBm	21.71645 GHz

CH 6



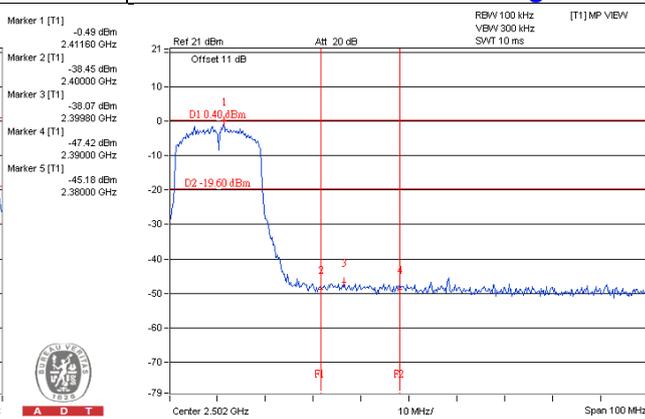
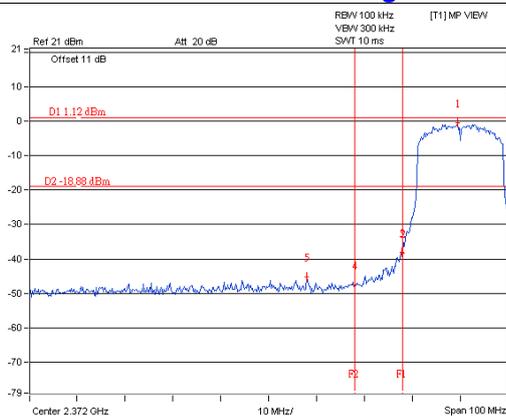
Marker 1 [T1]	5.27 dBm	2.43336 GHz
Marker 2 [T1]	-46.43 dBm	637.95 MHz
Marker 3 [T1]	-41.84 dBm	24.50060 GHz

CH 11



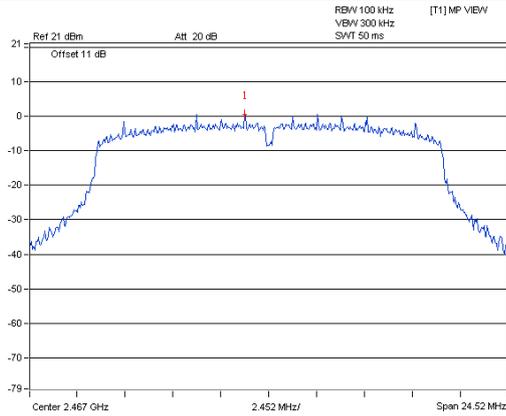
Marker 1 [T1]	0.01 dBm	2.45833 GHz
Marker 2 [T1]	-46.75 dBm	2.08378 GHz
Marker 3 [T1]	-42.79 dBm	21.83529 GHz

CH 1 Band edge

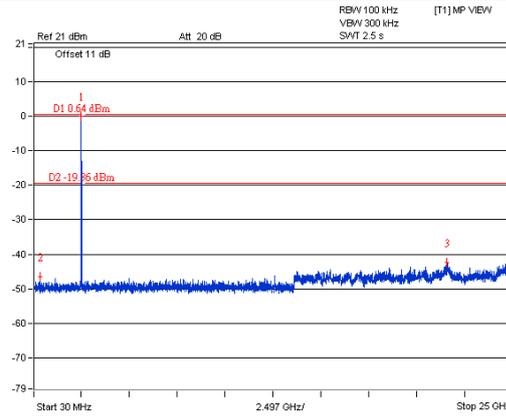


Marker 1 [T1]	0.09 dBm	2.46320 GHz
Marker 2 [T1]	-48.76 dBm	2.48350 GHz
Marker 3 [T1]	-46.75 dBm	2.48840 GHz
Marker 4 [T1]	-48.72 dBm	2.50000 GHz

CH 12

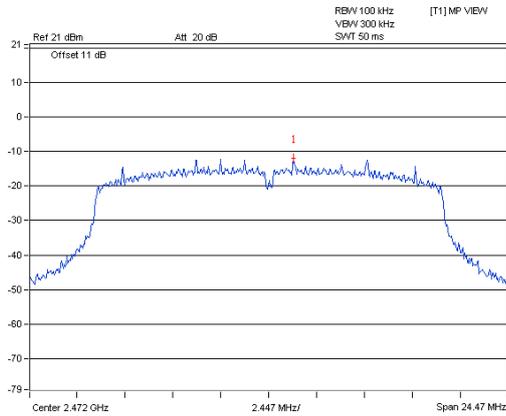


A D T

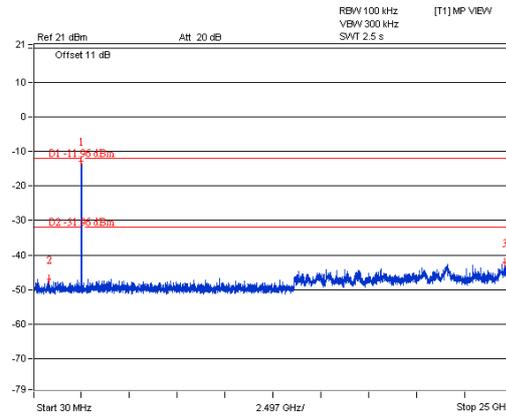


A D T

CH 13

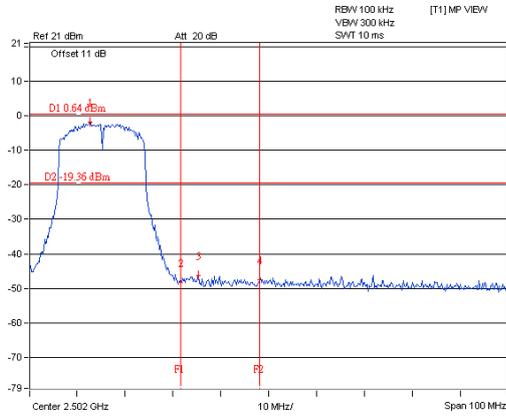


A D T



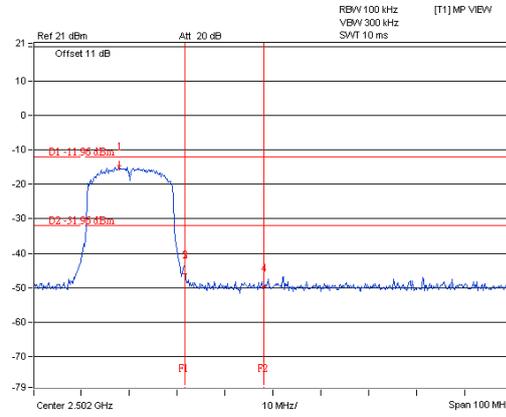
A D T

CH 12 Band edge



A D T

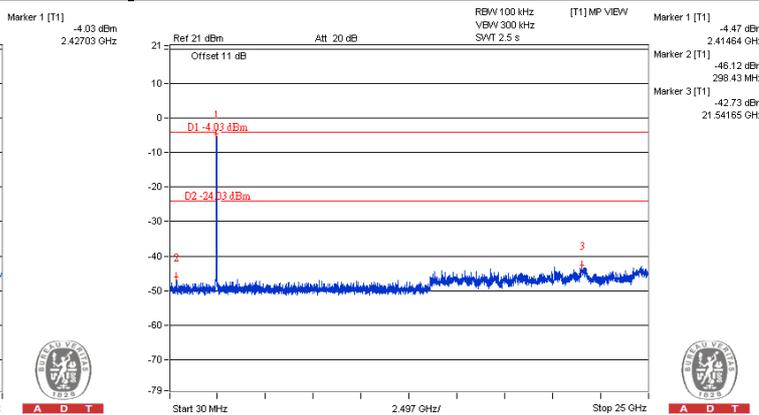
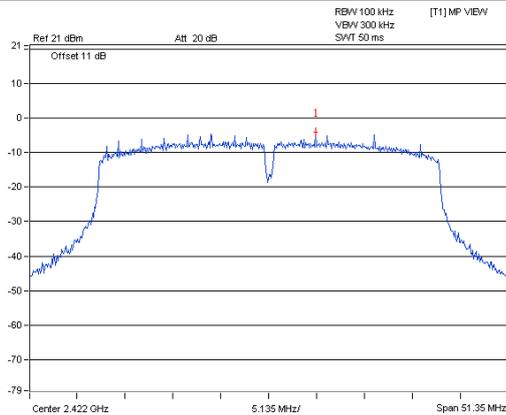
CH 13 Band edge



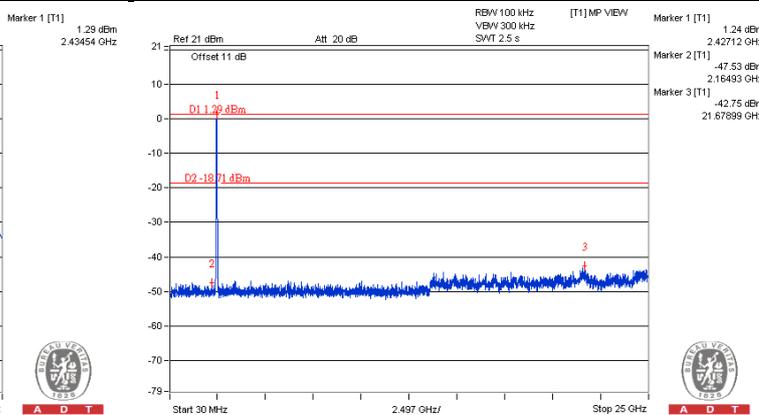
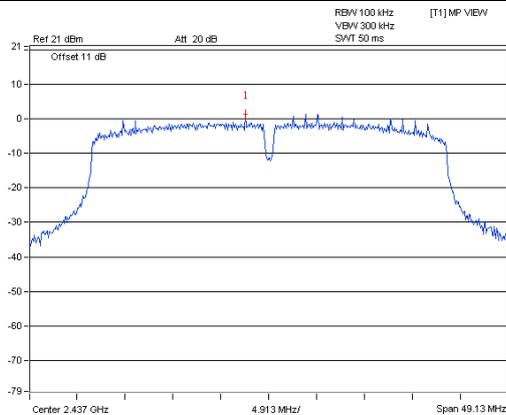
A D T

VHT40
Chain 0

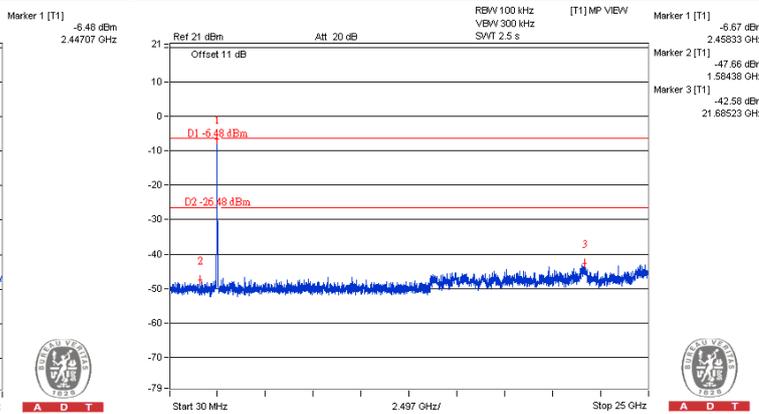
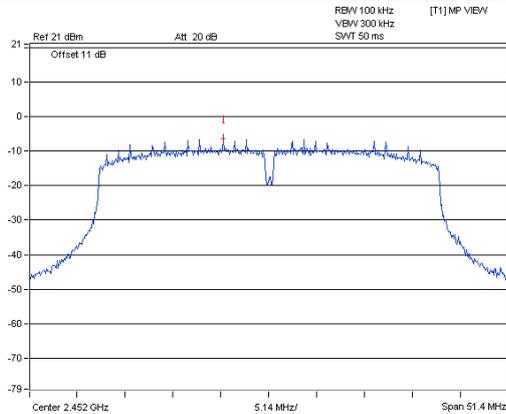
CH 3



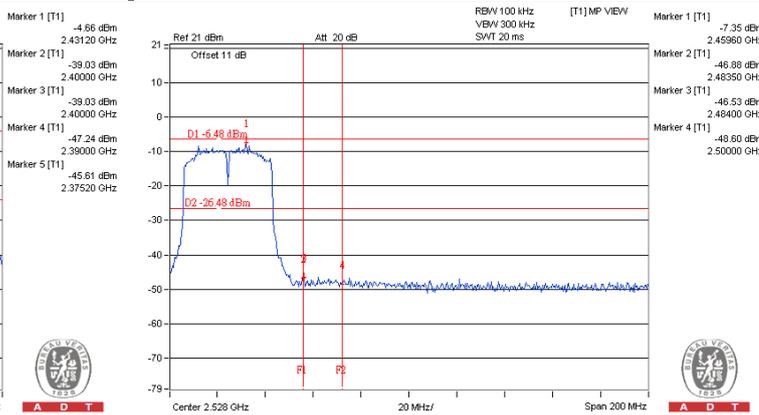
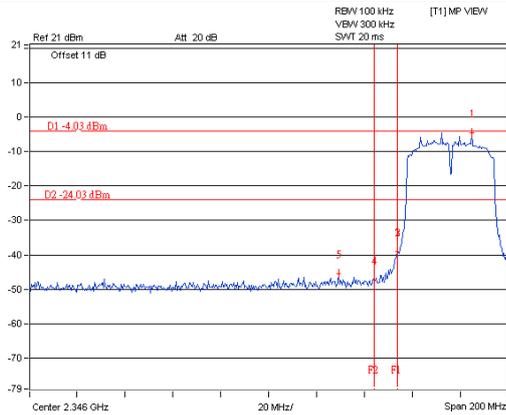
CH 6



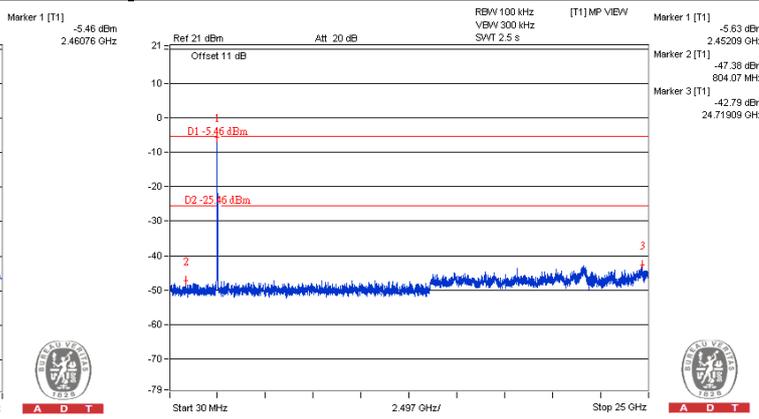
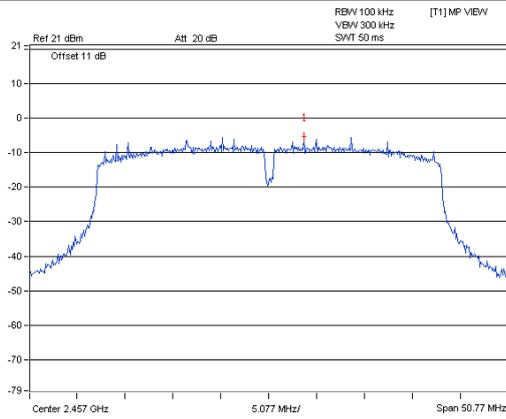
CH 9



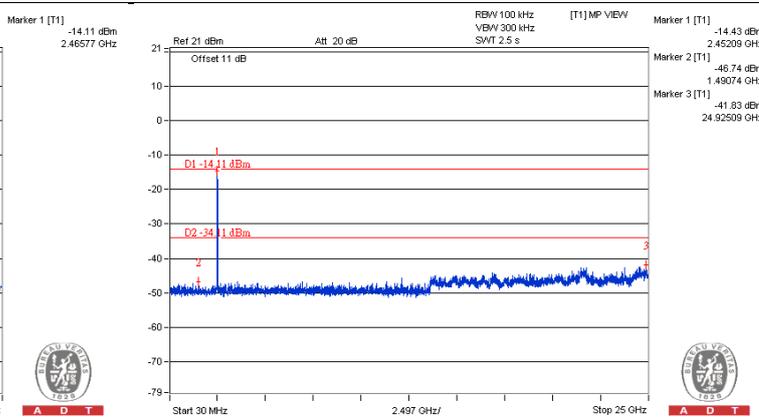
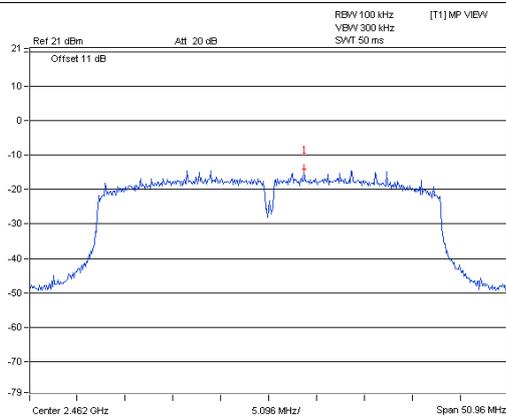
CH 3 Band edge



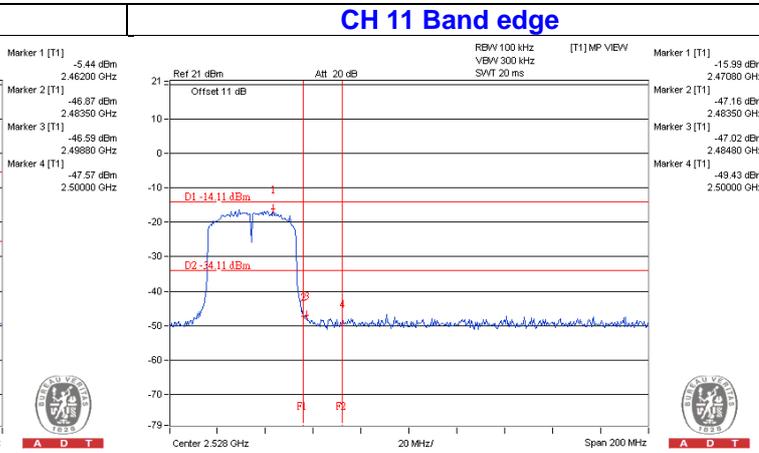
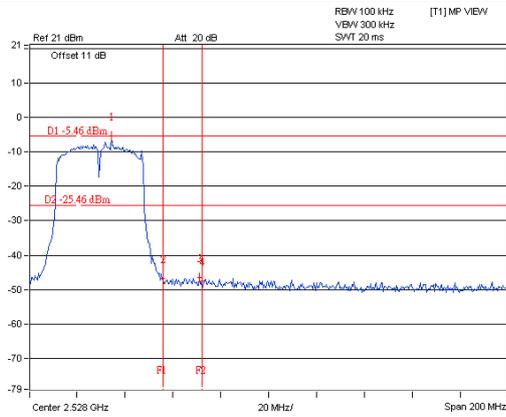
CH 10



CH 11

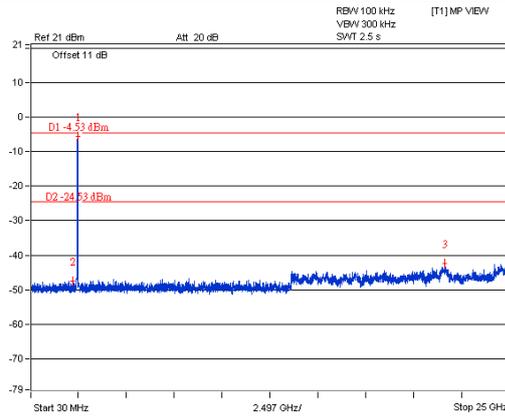
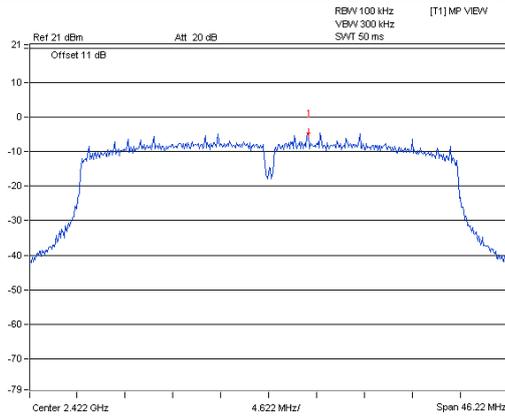


CH 10 Band edge

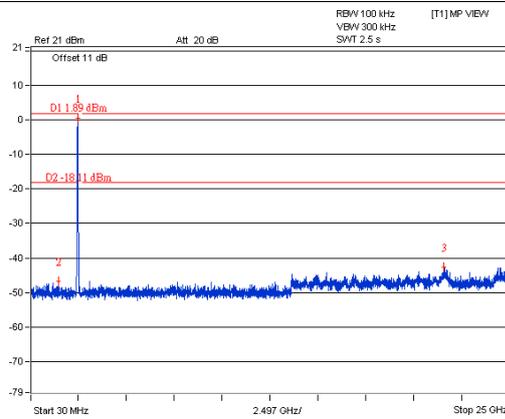
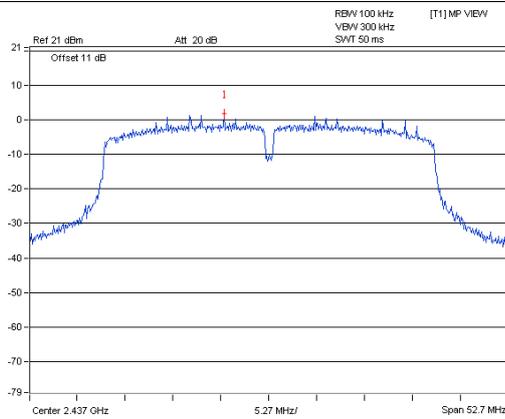


Chain 1

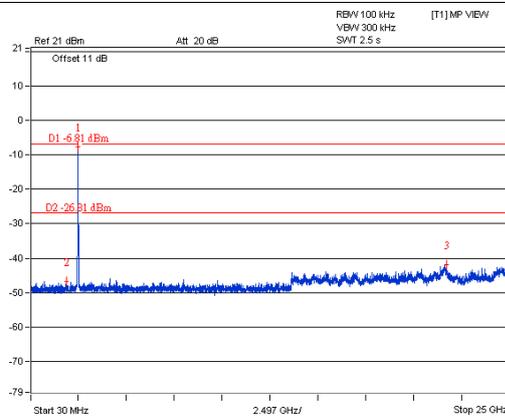
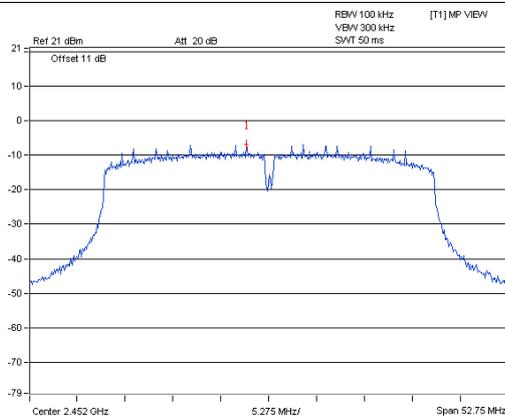
CH 3



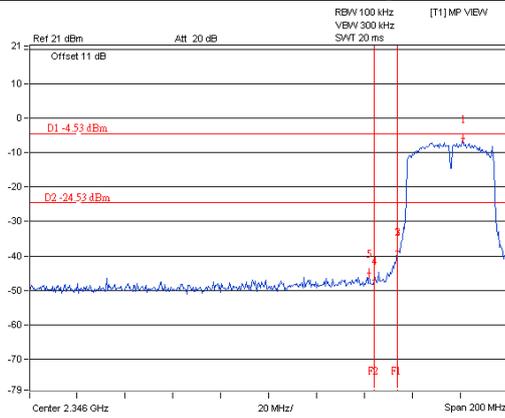
CH 6



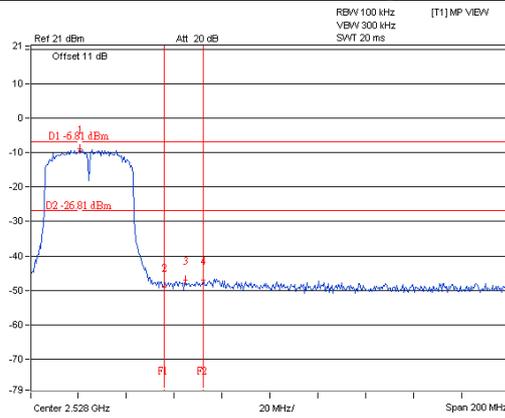
CH 9



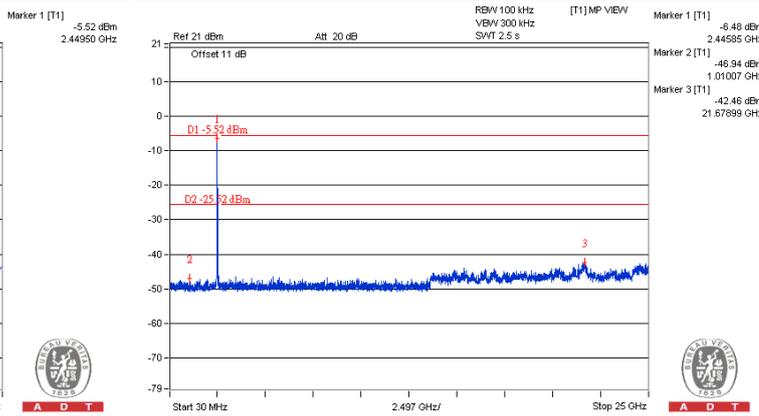
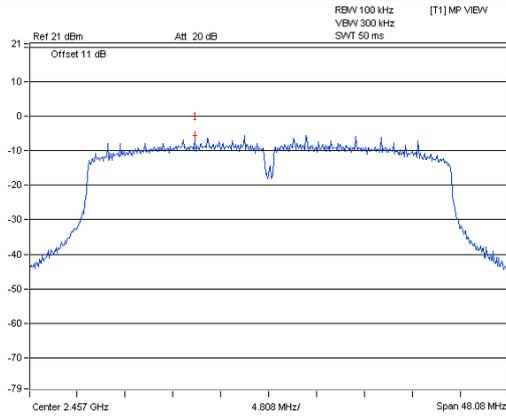
CH 3 Band edge



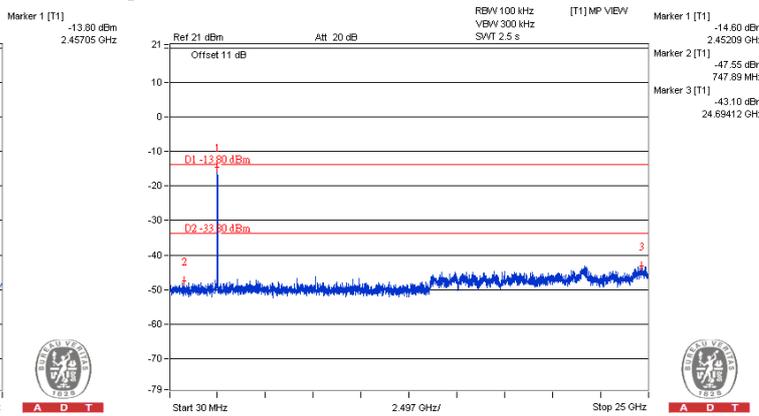
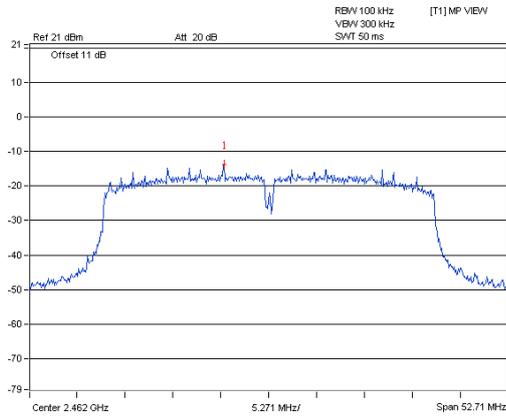
CH 9 Band edge



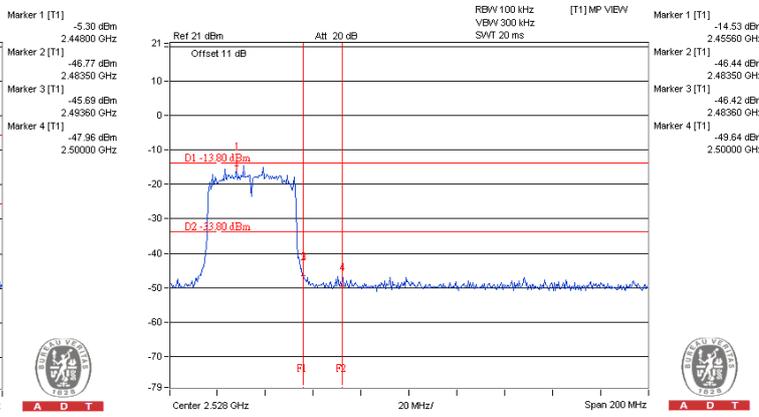
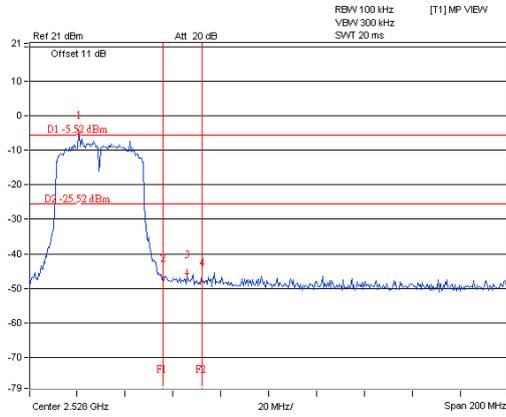
CH 10



CH 11



CH 10 Band edge



4.5 Unwanted Emission Measurement (Radiated Versus Conducted)

4.5.1 Limits of Unwanted Emission Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.5.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY50010156	Aug. 11, 2014	Aug. 10, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 12, 2014	Nov. 11, 2015
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Feb. 27, 2014	Feb. 26, 2015
RF Cable	NA	CHHCAB_001	Oct. 05, 2014	Oct. 04, 2015
Horn_Antenna AISI	AIH.8018	0000220091110	Aug. 26, 2014	Aug. 25, 2015
Pre-Amplifier Agilent	8449B	300801923	Oct. 28, 2014	Oct. 27, 2015
RF Cable	NA	131206 131215 SNMY23685/4	Jan. 16, 2015	Jan. 15, 2016
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Pre-Amplifier EMCI	EMC184045	980143	Jan. 16, 2015	Jan. 15, 2016
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Aug. 26, 2014	Aug. 25, 2015
RF Cable	NA	RF104-121 RF104-204	Dec. 11, 2014	Dec. 10, 2015
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: Feb. 16, 2015

4.5.3 Test Procedures

Following FCC KDB 558074 D01 DTS Meas. Guidance :

Radiated versus Conducted Measurements.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test
 - e-1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
 - e-2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - e-3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - e-4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - e-5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - e-6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

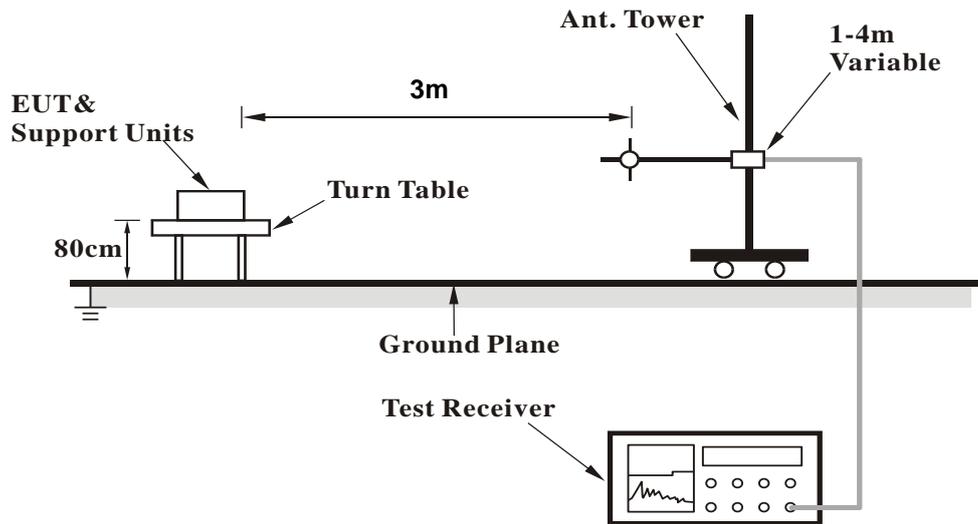
4.5.4 Deviation from Test Standard

No deviation.

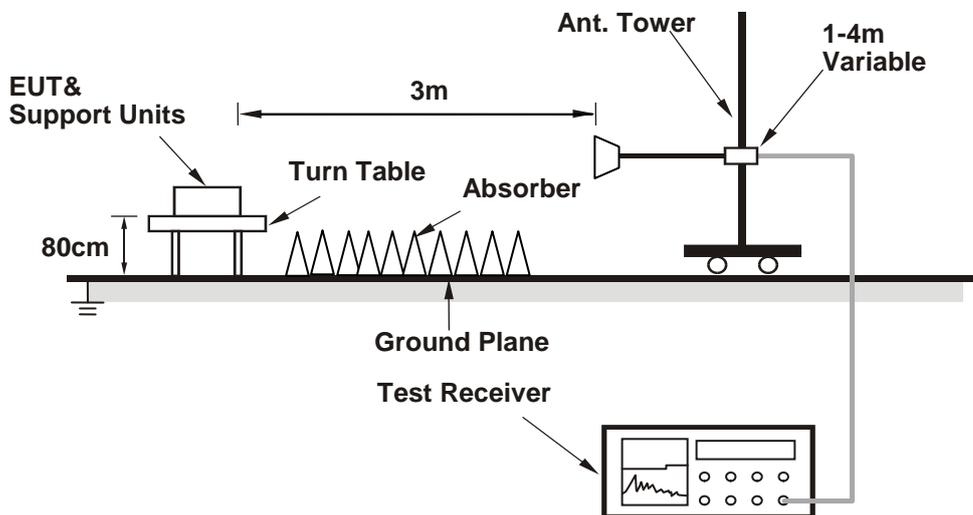
4.5.5 Test Setup

For radiated configuration:

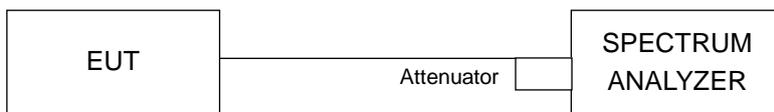
<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For conducted configuration:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.5.6 EUT Operating Conditions

1. Connect the EUT with the support unit A (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program "QCART Version: 3.0.33.0" to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.5.7 Test Results (Radiated Measurement)

Radiated versus Conducted Measurement	
<input type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation)	
<u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	

Radiated test was done with 50ohm terminator on antenna port

Above 1GHz Data

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	52.5 PK	74.0	-21.5	1.48 H	64	45.29	7.21
2	4824.00	48.2 AV	54.0	-5.8	1.48 H	64	40.99	7.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	53.0 PK	74.0	-21.0	1.60 V	43	45.79	7.21
2	4824.00	49.0 AV	54.0	-5.0	1.60 V	43	41.79	7.21

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	53.4 PK	74.0	-20.6	1.67 H	41	46.19	7.21
2	4874.00	49.8 AV	54.0	-4.2	1.67 H	41	42.59	7.21
3	7311.00	53.5 PK	74.0	-20.5	1.01 H	236	41.78	11.72
4	7311.00	40.5 AV	54.0	-13.5	1.01 H	236	28.78	11.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	54.4 PK	74.0	-19.6	1.70 V	55	47.19	7.21
2	4874.00	50.7 AV	54.0	-3.3	1.70 V	55	43.49	7.21
3	7311.00	53.3 PK	74.0	-20.7	1.07 V	274	41.58	11.72
4	7311.00	40.9 AV	54.0	-13.1	1.07 V	274	29.18	11.72

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	53.5 PK	74.0	-20.5	1.65 H	51	46.28	7.22
2	4924.00	50.2 AV	54.0	-3.8	1.65 H	51	42.98	7.22
3	7386.00	53.4 PK	74.0	-20.6	1.02 H	237	41.48	11.92
4	7386.00	40.4 AV	54.0	-13.6	1.02 H	237	28.48	11.92

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	53.6 PK	74.0	-20.4	1.60 V	42	46.38	7.22
2	4924.00	49.5 AV	54.0	-4.5	1.60 V	42	42.28	7.22
3	7386.00	54.6 PK	74.0	-19.4	1.06 V	235	42.68	11.92
4	7386.00	41.7 AV	54.0	-12.3	1.06 V	235	29.78	11.92

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 12	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4934.00	53.2 PK	74.0	-20.8	1.54 H	29	45.98	7.22
2	4934.00	50.1 AV	54.0	-3.9	1.54 H	29	42.88	7.22
3	7401.00	53.4 PK	74.0	-20.6	1.00 H	240	41.44	11.96
4	7401.00	40.4 AV	54.0	-13.6	1.00 H	240	28.44	11.96

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4934.00	53.4 PK	74.0	-20.6	1.56 V	35	46.18	7.22
2	4934.00	49.2 AV	54.0	-4.8	1.56 V	35	41.98	7.22
3	7401.00	53.7 PK	74.0	-20.3	1.10 V	215	41.74	11.96
4	7401.00	41.1 AV	54.0	-12.9	1.10 V	215	29.14	11.96

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 13	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4944.00	53.0 PK	74.0	-21.0	1.67 H	44	45.77	7.23
2	4944.00	49.7 AV	54.0	-4.3	1.67 H	44	42.47	7.23
3	7416.00	53.5 PK	74.0	-20.5	1.02 H	236	41.50	12.00
4	7416.00	40.2 AV	54.0	-13.8	1.02 H	236	28.20	12.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4944.00	53.7 PK	74.0	-20.3	1.62 V	27	46.47	7.23
2	4944.00	49.6 AV	54.0	-4.4	1.62 V	27	42.37	7.23
3	7416.00	55.0 PK	74.0	-19.0	1.03 V	237	43.00	12.00
4	7416.00	42.0 AV	54.0	-12.0	1.03 V	237	30.00	12.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

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CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	48.8 PK	74.0	-25.2	1.47 H	56	41.59	7.21
2	4824.00	35.2 AV	54.0	-18.8	1.47 H	56	27.99	7.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	48.1 PK	74.0	-25.9	1.45 V	42	40.89	7.21
2	4824.00	34.8 AV	54.0	-19.2	1.45 V	42	27.59	7.21

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	51.8 PK	74.0	-22.2	1.41 H	44	44.59	7.21
2	4874.00	38.6 AV	54.0	-15.4	1.41 H	44	31.39	7.21
3	7311.00	53.4 PK	74.0	-20.6	1.00 H	237	41.68	11.72
4	7311.00	40.4 AV	54.0	-13.6	1.00 H	237	28.68	11.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	51.0 PK	74.0	-23.0	1.47 V	78	43.79	7.21
2	4874.00	37.8 AV	54.0	-16.2	1.47 V	78	30.59	7.21
3	7311.00	53.4 PK	74.0	-20.6	1.00 V	242	41.68	11.72
4	7311.00	40.7 AV	54.0	-13.3	1.00 V	242	28.98	11.72

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	51.9 PK	74.0	-22.1	1.59 H	50	44.68	7.22
2	4924.00	38.6 AV	54.0	-15.4	1.59 H	50	31.38	7.22
3	7386.00	54.6 PK	74.0	-19.4	1.00 H	235	42.68	11.92
4	7386.00	41.4 AV	54.0	-12.6	1.00 H	235	29.48	11.92

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	51.5 PK	74.0	-22.5	1.44 V	54	44.28	7.22
2	4924.00	37.7 AV	54.0	-16.3	1.44 V	54	30.48	7.22
3	7386.00	53.5 PK	74.0	-20.5	1.00 V	248	41.58	11.92
4	7386.00	40.7 AV	54.0	-13.3	1.00 V	248	28.78	11.92

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 12	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4934.00	52.0 PK	74.0	-22.0	1.62 H	28	44.78	7.22
2	4934.00	39.0 AV	54.0	-15.0	1.62 H	28	31.78	7.22
3	7401.00	54.6 PK	74.0	-19.4	1.00 H	231	42.64	11.96
4	7401.00	41.5 AV	54.0	-12.5	1.00 H	231	29.54	11.96

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4934.00	51.3 PK	74.0	-22.7	1.49 V	63	44.08	7.22
2	4934.00	37.8 AV	54.0	-16.2	1.49 V	63	30.58	7.22
3	7401.00	53.1 PK	74.0	-20.9	1.00 V	246	41.14	11.96
4	7401.00	40.6 AV	54.0	-13.4	1.00 V	246	28.64	11.96

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 13	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4944.00	51.6 PK	74.0	-22.4	1.49 H	30	44.37	7.23
2	4944.00	38.5 AV	54.0	-15.5	1.49 H	30	31.27	7.23
3	7416.00	54.4 PK	74.0	-19.6	1.00 H	226	42.40	12.00
4	7416.00	41.0 AV	54.0	-13.0	1.00 H	226	29.00	12.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4944.00	51.3 PK	74.0	-22.7	1.40 V	54	44.07	7.23
2	4944.00	37.4 AV	54.0	-16.6	1.40 V	54	30.17	7.23
3	7416.00	53.2 PK	74.0	-20.8	1.00 V	241	41.20	12.00
4	7416.00	40.6 AV	54.0	-13.4	1.00 V	241	28.60	12.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

VHT20

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	48.1 PK	74.0	-25.9	1.54 H	60	40.89	7.21
2	4824.00	34.9 AV	54.0	-19.1	1.54 H	60	27.69	7.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	48.1 PK	74.0	-25.9	1.48 V	72	40.89	7.21
2	4824.00	35.1 AV	54.0	-18.9	1.48 V	72	27.89	7.21

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	51.4 PK	74.0	-22.6	1.57 H	65	44.19	7.21
2	4874.00	38.2 AV	54.0	-15.8	1.57 H	65	30.99	7.21
3	7311.00	53.4 PK	74.0	-20.6	1.00 H	196	41.68	11.72
4	7311.00	40.4 AV	54.0	-13.6	1.00 H	196	28.68	11.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	51.1 PK	74.0	-22.9	1.00 V	45	43.89	7.21
2	4874.00	37.7 AV	54.0	-16.3	1.00 V	45	30.49	7.21
3	7311.00	53.6 PK	74.0	-20.4	1.00 V	249	41.88	11.72
4	7311.00	40.7 AV	54.0	-13.3	1.00 V	249	28.98	11.72

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	52.1 PK	74.0	-21.9	1.51 H	39	44.88	7.22
2	4924.00	38.8 AV	54.0	-15.2	1.51 H	39	31.58	7.22
3	7386.00	53.7 PK	74.0	-20.3	1.00 H	218	41.78	11.92
4	7386.00	40.4 AV	54.0	-13.6	1.00 H	218	28.48	11.92

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	50.7 PK	74.0	-23.3	1.45 V	25	43.48	7.22
2	4924.00	37.6 AV	54.0	-16.4	1.45 V	25	30.38	7.22
3	7386.00	54.4 PK	74.0	-19.6	1.00 V	250	42.48	11.92
4	7386.00	41.6 AV	54.0	-12.4	1.00 V	250	29.68	11.92

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 12	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4934.00	51.8 PK	74.0	-22.2	1.49 H	39	44.58	7.22
2	4934.00	38.5 AV	54.0	-15.5	1.49 H	39	31.28	7.22
3	7401.00	53.2 PK	74.0	-20.8	1.00 H	216	41.24	11.96
4	7401.00	40.1 AV	54.0	-13.9	1.00 H	216	28.14	11.96

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4934.00	50.5 PK	74.0	-23.5	1.49 V	45	43.28	7.22
2	4934.00	37.2 AV	54.0	-16.8	1.49 V	45	29.98	7.22
3	7401.00	53.7 PK	74.0	-20.3	1.00 V	241	41.74	11.96
4	7401.00	41.2 AV	54.0	-12.8	1.00 V	241	29.24	11.96

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 13	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4944.00	51.4 PK	74.0	-22.6	1.55 H	53	44.17	7.23
2	4944.00	38.0 AV	54.0	-16.0	1.55 H	53	30.77	7.23
3	7416.00	53.8 PK	74.0	-20.2	1.00 H	197	41.80	12.00
4	7416.00	40.6 AV	54.0	-13.4	1.00 H	197	28.60	12.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4944.00	51.7 PK	74.0	-22.3	1.44 V	41	44.47	7.23
2	4944.00	38.2 AV	54.0	-15.8	1.44 V	41	30.97	7.23
3	7416.00	53.9 PK	74.0	-20.1	1.00 V	253	41.90	12.00
4	7416.00	41.1 AV	54.0	-12.9	1.00 V	253	29.10	12.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

VHT40

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	48.7 PK	74.0	-25.3	1.53 H	59	41.49	7.21
2	4844.00	35.0 AV	54.0	-19.0	1.53 H	59	27.79	7.21
3	7266.00	54.3 PK	74.0	-19.7	1.10 H	204	42.69	11.61
4	7266.00	40.9 AV	54.0	-13.1	1.10 H	204	29.29	11.61

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	48.1 PK	74.0	-25.9	1.46 V	57	40.89	7.21
2	4844.00	34.8 AV	54.0	-19.2	1.46 V	57	27.59	7.21
3	7266.00	53.6 PK	74.0	-20.4	1.00 V	258	41.99	11.61
4	7266.00	41.1 AV	54.0	-12.9	1.00 V	258	29.49	11.61

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	48.7 PK	74.0	-25.3	1.54 H	62	41.49	7.21
2	4874.00	34.8 AV	54.0	-19.2	1.54 H	62	27.59	7.21
3	7311.00	54.6 PK	74.0	-19.4	1.06 H	212	42.88	11.72
4	7311.00	41.4 AV	54.0	-12.6	1.06 H	212	29.68	11.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	48.0 PK	74.0	-26.0	1.38 V	54	40.79	7.21
2	4874.00	35.0 AV	54.0	-19.0	1.38 V	54	27.79	7.21
3	7311.00	52.5 PK	74.0	-21.5	1.00 V	248	40.78	11.72
4	7311.00	40.0 AV	54.0	-14.0	1.00 V	248	28.28	11.72

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	48.9 PK	74.0	-25.1	1.61 H	49	41.69	7.21
2	4904.00	35.4 AV	54.0	-18.6	1.61 H	49	28.19	7.21
3	7356.00	54.5 PK	74.0	-19.5	1.07 H	220	42.65	11.85
4	7356.00	41.3 AV	54.0	-12.7	1.07 H	220	29.45	11.85

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	48.0 PK	74.0	-26.0	1.34 V	56	40.79	7.21
2	4904.00	34.8 AV	54.0	-19.2	1.34 V	56	27.59	7.21
3	7356.00	52.2 PK	74.0	-21.8	1.00 V	225	40.35	11.85
4	7356.00	39.7 AV	54.0	-14.3	1.00 V	225	27.85	11.85

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 10	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4914.00	48.9 PK	74.0	-25.1	1.52 H	71	41.69	7.21
2	4914.00	35.4 AV	54.0	-18.6	1.52 H	71	28.19	7.21
3	7371.00	54.4 PK	74.0	-19.6	1.05 H	196	42.52	11.88
4	7371.00	41.3 AV	54.0	-12.7	1.05 H	196	29.42	11.88

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4914.00	48.3 PK	74.0	-25.7	1.37 V	62	41.09	7.21
2	4914.00	35.3 AV	54.0	-18.7	1.37 V	62	28.09	7.21
3	7371.00	51.9 PK	74.0	-22.1	1.00 V	243	40.02	11.88
4	7371.00	39.7 AV	54.0	-14.3	1.00 V	243	27.82	11.88

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	48.5 PK	74.0	-25.5	1.55 H	78	41.28	7.22
2	4924.00	34.8 AV	54.0	-19.2	1.55 H	78	27.58	7.22
3	7386.00	54.7 PK	74.0	-19.3	1.08 H	200	42.78	11.92
4	7386.00	41.3 AV	54.0	-12.7	1.08 H	200	29.38	11.92

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	47.6 PK	74.0	-26.4	1.40 V	39	40.38	7.22
2	4924.00	34.7 AV	54.0	-19.3	1.40 V	39	27.48	7.22
3	7386.00	52.7 PK	74.0	-21.3	1.00 V	258	40.78	11.92
4	7386.00	40.2 AV	54.0	-13.8	1.00 V	258	28.28	11.92

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Below 1GHz Data:
802.11g

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	166.29	36.6 QP	43.5	-6.9	1.50 H	89	49.85	-13.24
2	240.01	41.3 QP	46.0	-4.7	1.00 H	96	55.40	-14.07
3	252.95	35.4 QP	46.0	-10.6	1.00 H	74	49.23	-13.83
4	257.27	34.4 QP	46.0	-11.6	1.00 H	89	48.13	-13.71
5	335.99	36.4 QP	46.0	-9.6	1.00 H	171	47.19	-10.80
6	608.80	36.2 QP	46.0	-9.9	1.00 H	80	40.71	-4.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	134.66	22.1 QP	43.5	-21.4	2.00 V	118	35.85	-13.73
2	166.29	32.2 QP	43.5	-11.3	1.00 V	32	45.42	-13.24
3	240.01	30.8 QP	46.0	-15.2	1.00 V	30	44.83	-14.07
4	335.40	31.5 QP	46.0	-14.5	2.00 V	124	42.34	-10.80
5	608.80	28.4 QP	46.0	-17.6	1.00 V	81	32.97	-4.56
6	611.18	27.6 QP	46.0	-18.4	1.00 V	84	32.09	-4.51

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.5.8 Test Results (Conducted Measurement)

Radiated versus Conducted Measurement	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation)	
<u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	

Conducted Measurement Factor
<p>a. The composite gain will be used when signal support the correlated signal. (Composite gain = $3.62\text{dBi} + 10\log(2) = 6.63\text{dBi}$)</p> <p>b. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.</p> <p>c. For the band edge the gain for the specific band may have been used.</p> <p>d. In restricted bands below 1000 MHz, add upper bound on ground plane reflection: For $f = 30 - 1000$ MHz, add 4.7 dB.</p> <p>Note: The conducted emission test was considered some factor to compute test result.</p>

Above 1GHz Data
802.11b - Channel 1

Conducted spurious emission table

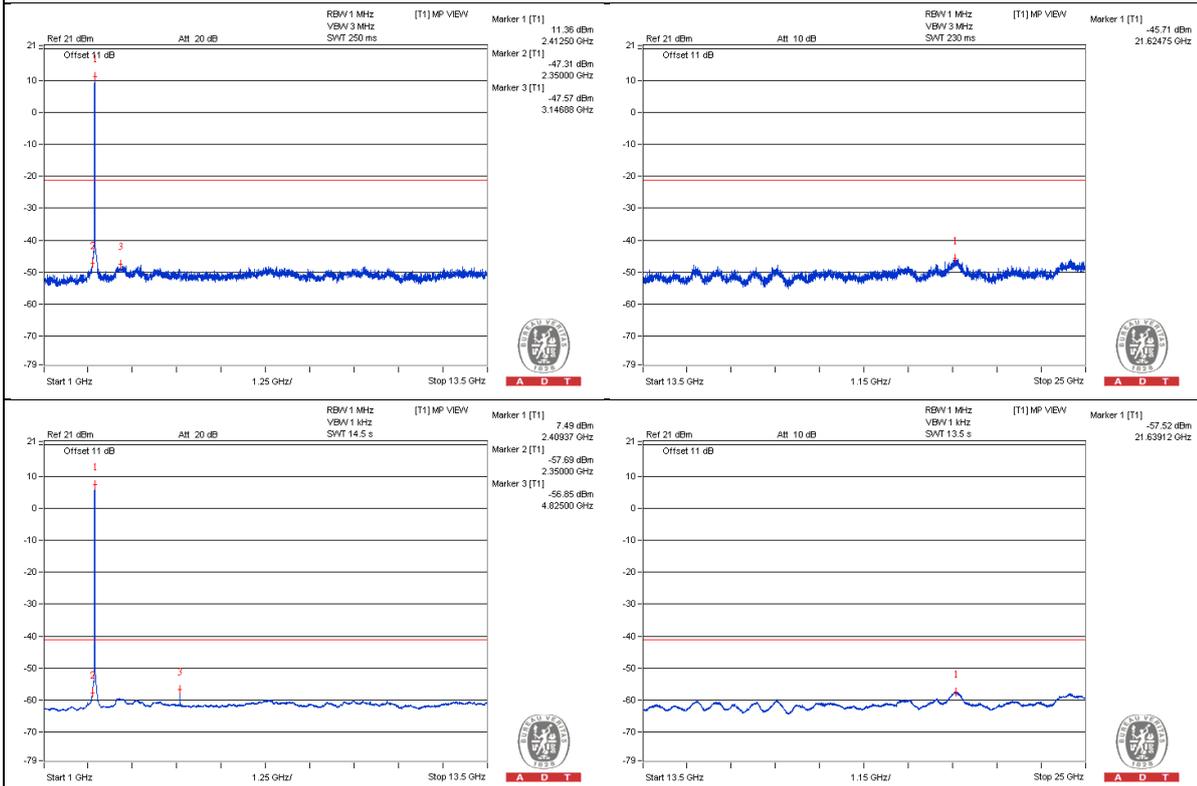
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1609.375 PK	52.02	74	-21.98	-53.43	-52.4	6.63	-43.24
2	1609.375 AV	41.69	54	-12.31	-63.19	-63.24	6.63	-53.57
3	4825 PK	54.82	74	-19.18	-49.3	-51.02	6.63	-40.44
4	4825 AV	46.7	54	-7.3	-56.85	-60.16	6.63	-48.56

Note :

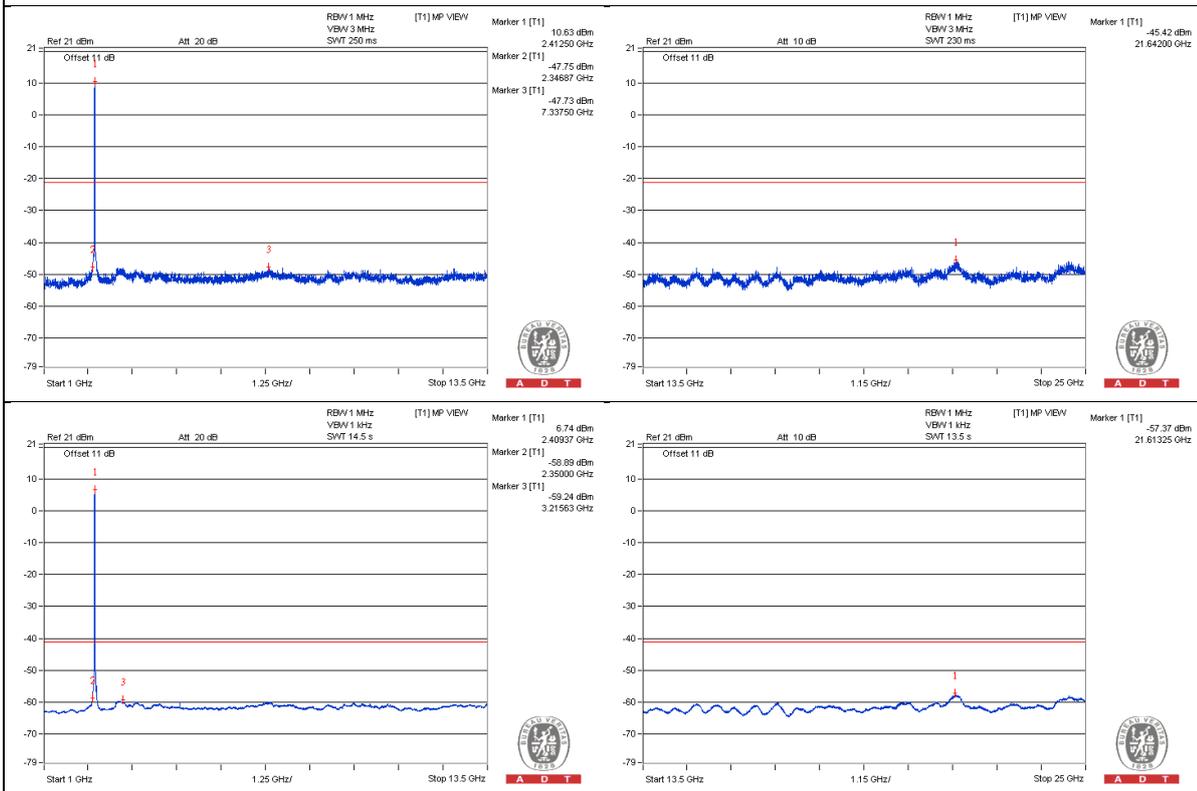
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

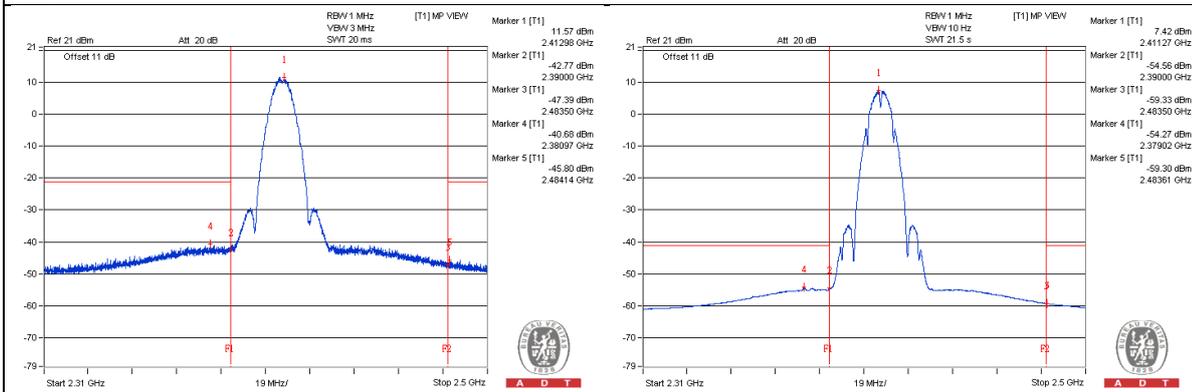
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2385.2875 PK	63.34	74	-10.66	-41.84	-41.29	6.63	-31.92
2	2387.1875 AV	50.31	54	-3.69	-54.84	-54.35	6.63	-44.95
3	2484.135 PK	58.74	74	-15.26	-45.8	-46.56	6.63	-36.52
4	2483.6125 AV	44.99	54	-9.01	-59.3	-60.61	6.63	-50.27

Note :

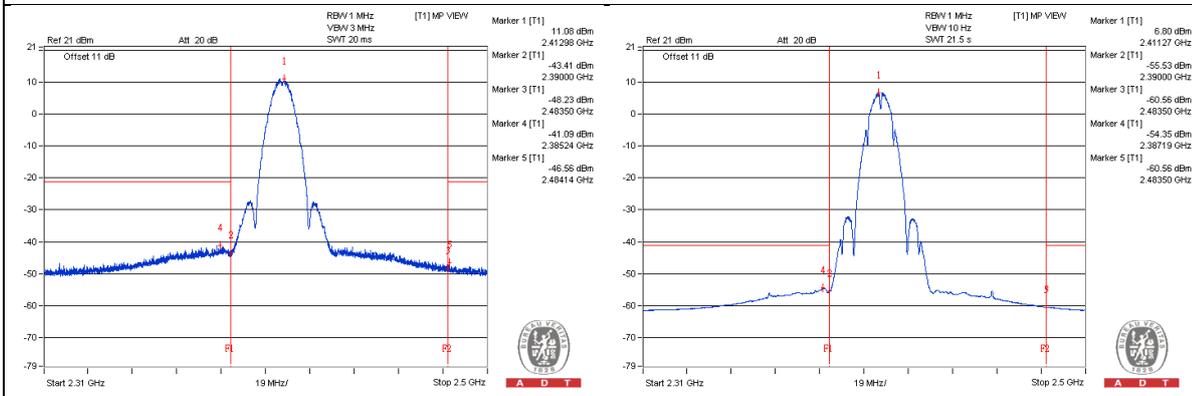
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11b - Channel 6
Conducted spurious emission table

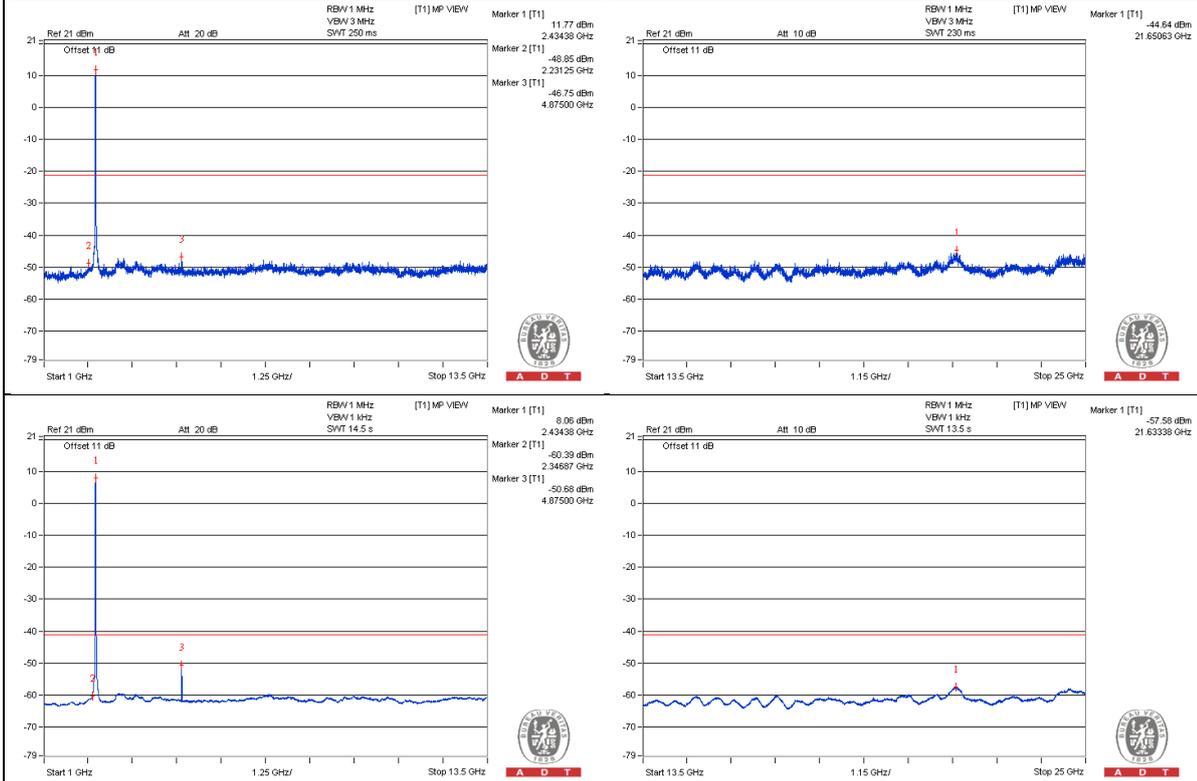
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	52	74	-22	-52.86	-52.95	6.63	-43.26
2	1625 AV	41.76	54	-12.24	-63.16	-63.13	6.63	-53.5
3	4875 PK	56.45	74	-17.55	-46.75	-51.29	6.63	-38.81
4	4875 AV	51.58	54	-2.42	-50.68	-61.18	6.63	-43.68
5	7306.25 PK	54.94	74	-19.06	-49.46	-50.52	6.63	-40.32
6	7312.5 AV	44.61	54	-9.39	-60.24	-60.34	6.63	-50.65

Note :

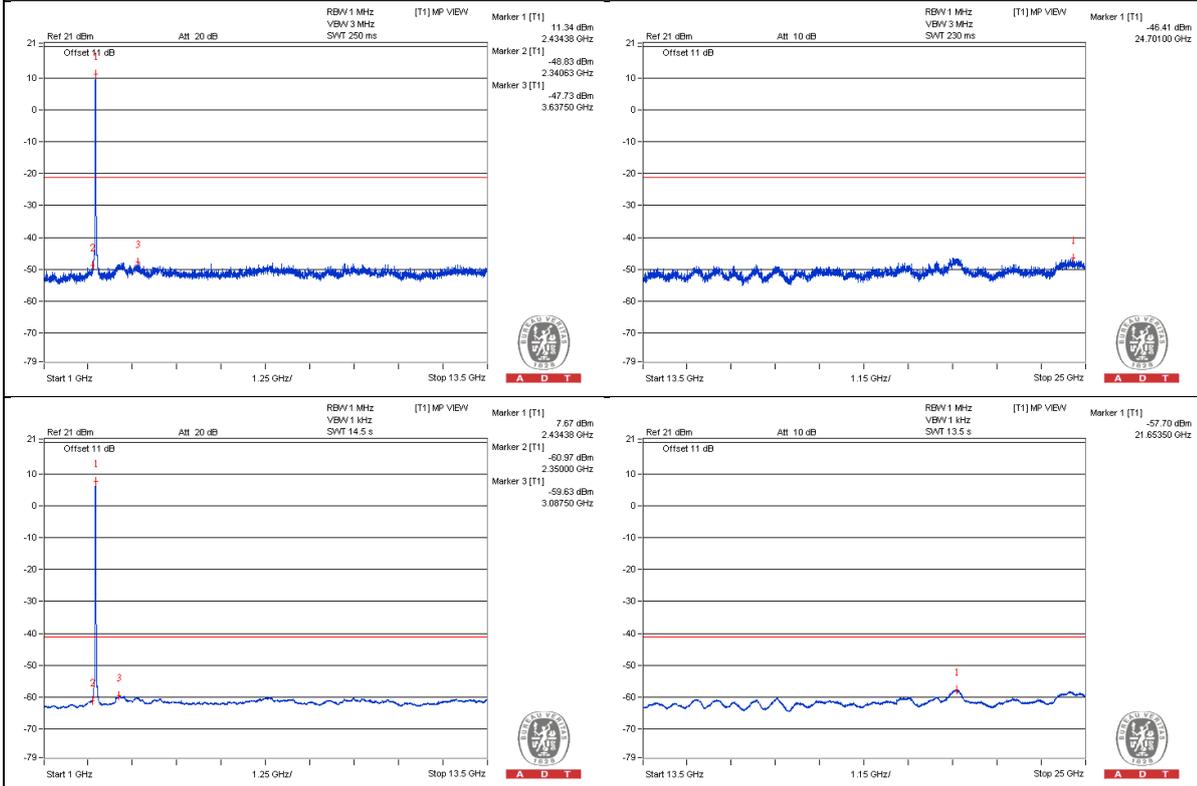
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

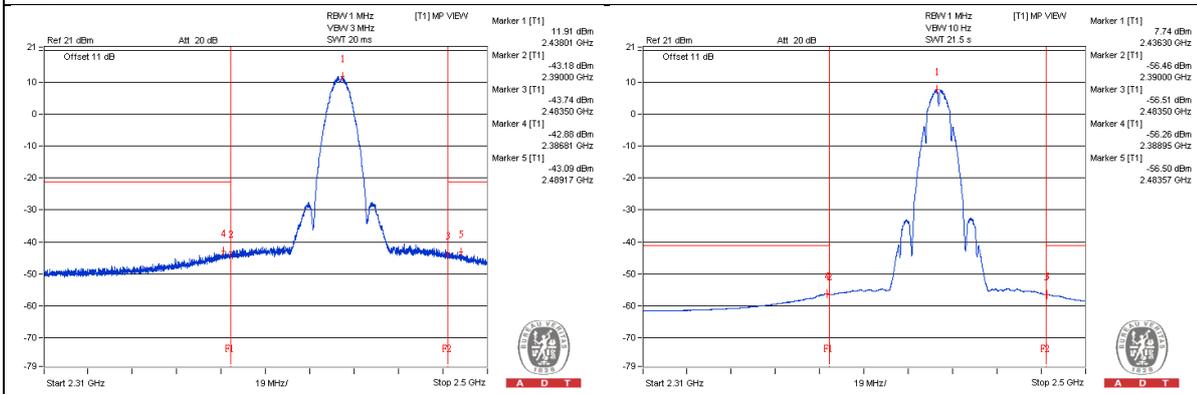
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.99 PK	61.13	74	-12.87	-43.09	-44.57	6.63	-34.13
2	2388.945 AV	48.39	54	-5.61	-56.26	-56.78	6.63	-46.87
3	2484.0875 PK	61.13	74	-12.87	-44.09	-43.48	6.63	-34.13
4	2485.0375 AV	48.88	54	-5.12	-56.67	-55.45	6.63	-46.38

Note :

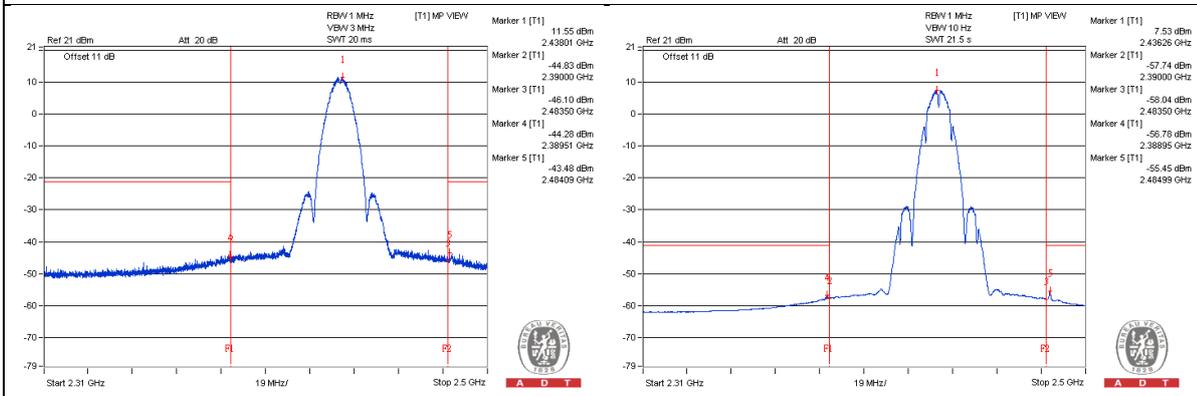
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11b - Channel 11
Conducted spurious emission table

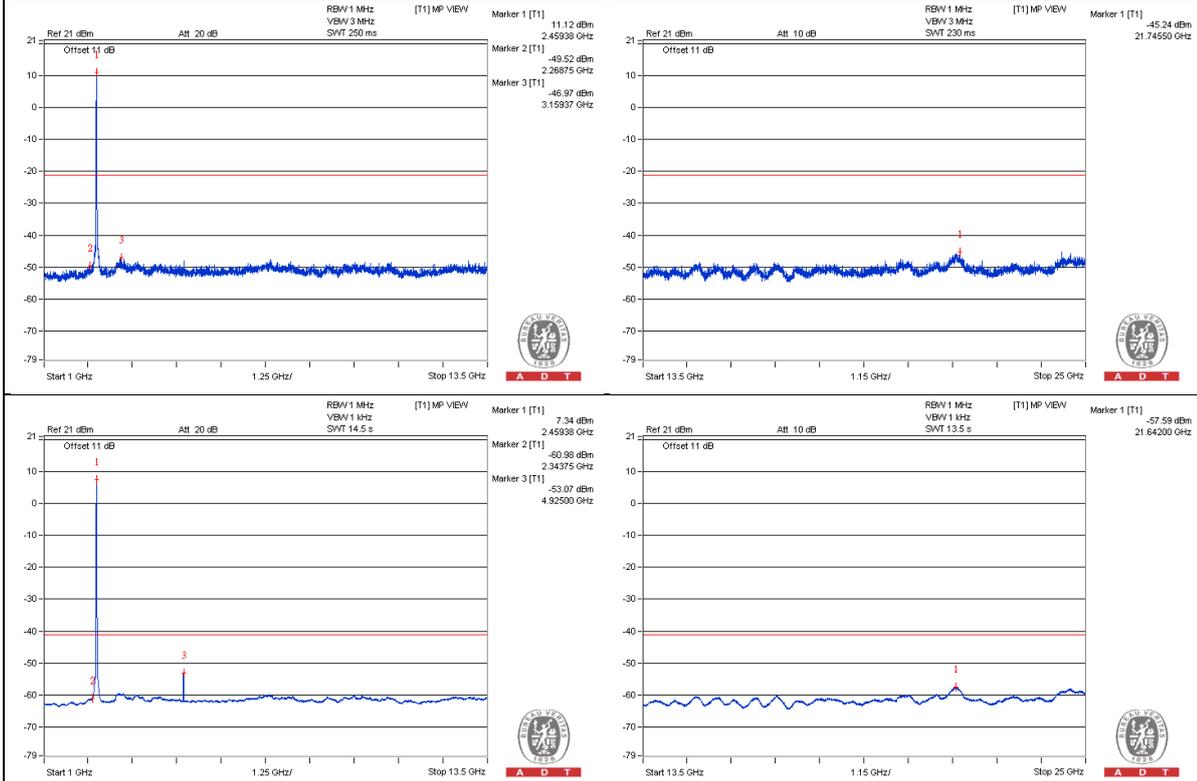
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4925 PK	55.51	74	-18.49	-48.11	-51.2	6.63	-39.75
2	4925 AV	49.59	54	-4.41	-53.07	-60.21	6.63	-45.67
3	7384.375 PK	55.81	74	-18.19	-48.61	-49.64	6.63	-39.45
4	7387.5 AV	44.49	54	-9.51	-60.44	-60.39	6.63	-50.77

Note :

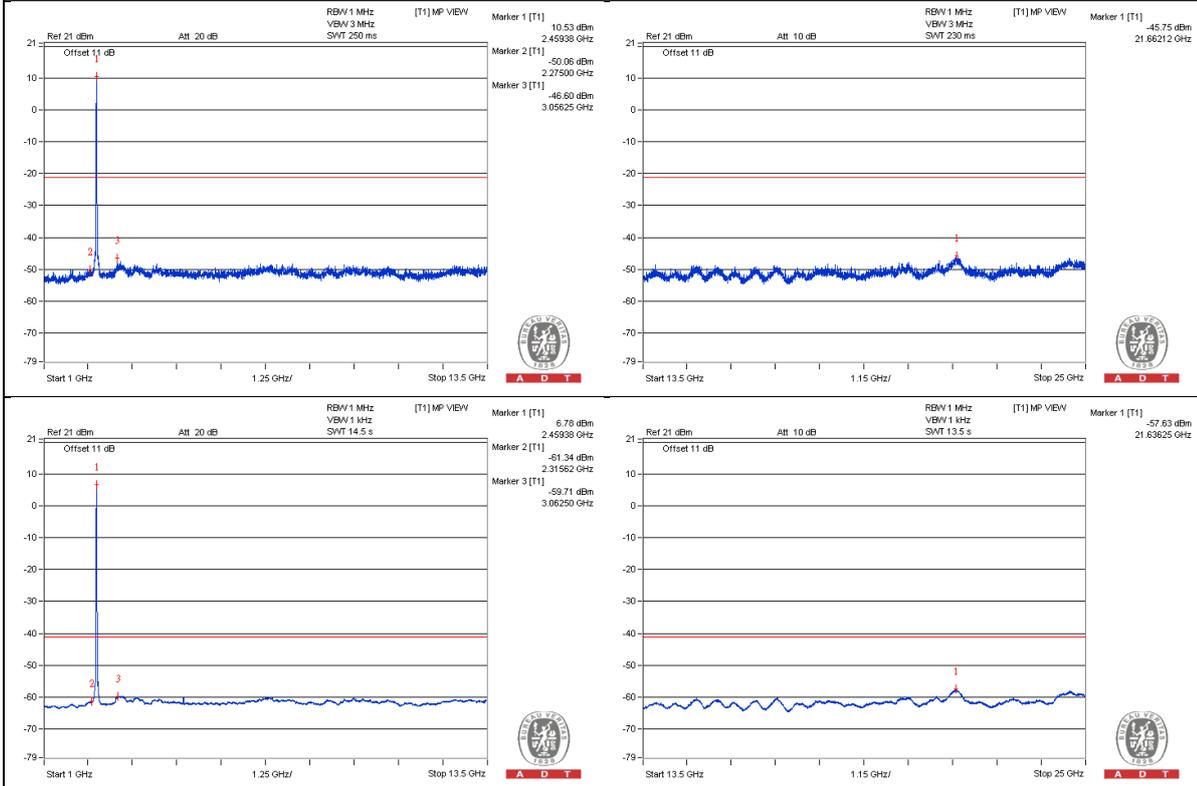
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

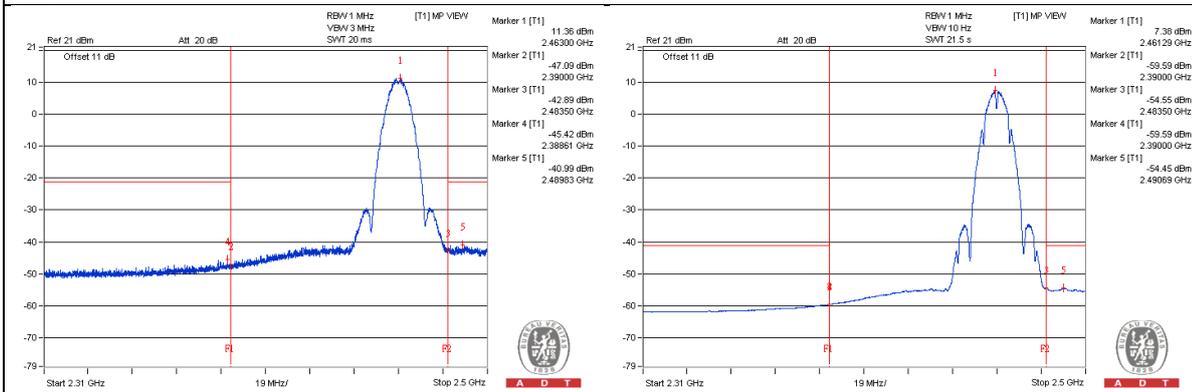
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.6125 PK	57.89	74	-16.11	-45.42	-49.56	6.63	-37.37
2	2389.99 AV	44.81	54	-9.19	-59.59	-60.65	6.63	-50.45
3	2484.2775 PK	62.64	74	-11.36	-41.23	-43.61	6.63	-32.62
4	2485.8925 AV	49.6	54	-4.4	-55.39	-55.21	6.63	-45.66

Note :

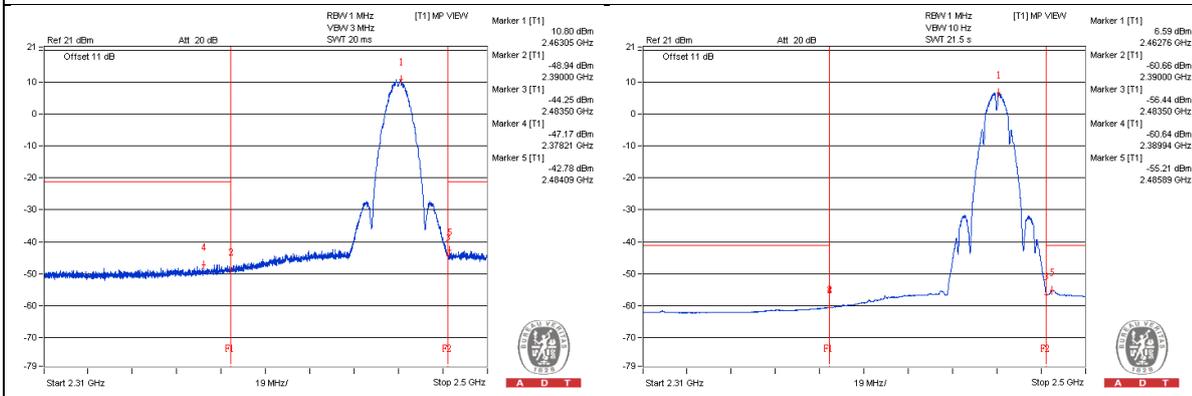
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11b - Channel 12
Conducted spurious emission table

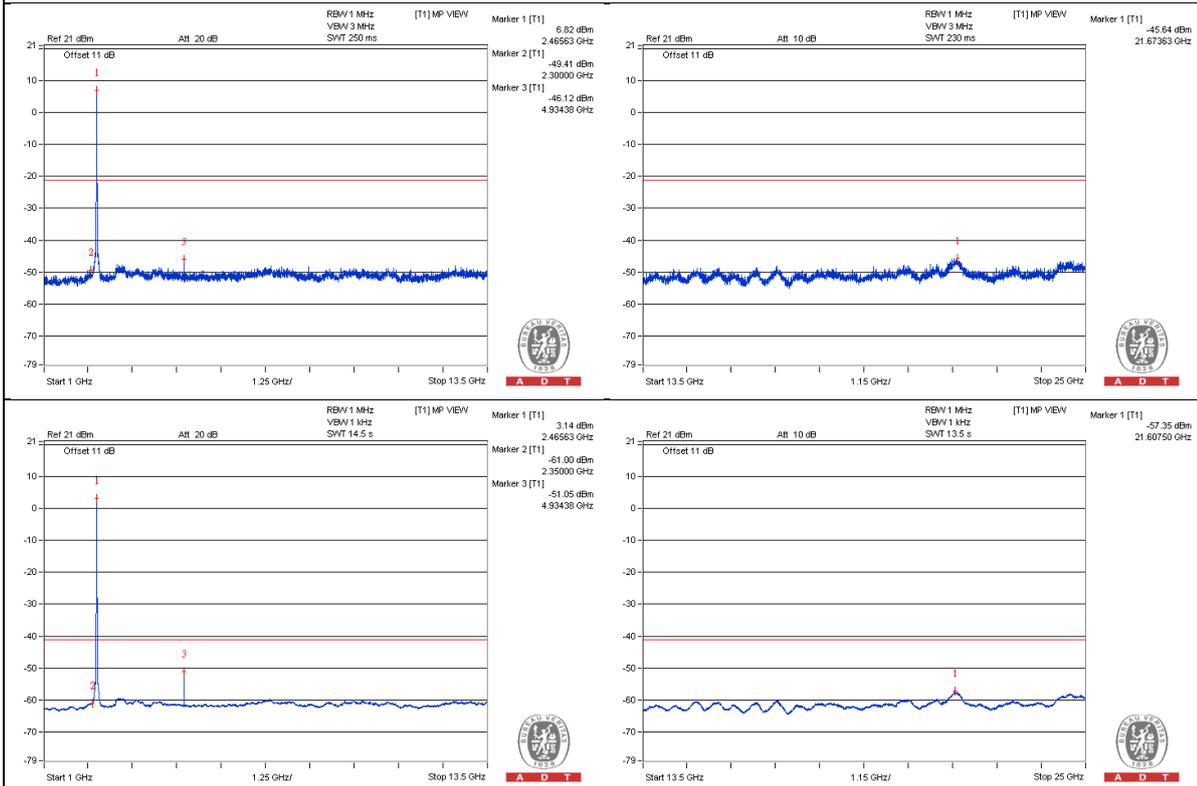
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4934.375 PK	56.9	74	-17.1	-46.12	-51.41	6.63	-38.36
2	4934.375 AV	51.3	54	-2.7	-51.05	-60.53	6.63	-43.96
3	7396.875 PK	56.03	74	-17.97	-47.93	-50.07	6.63	-39.23
4	7396.875 AV	44.48	54	-9.52	-60.39	-60.46	6.63	-50.78

Note :

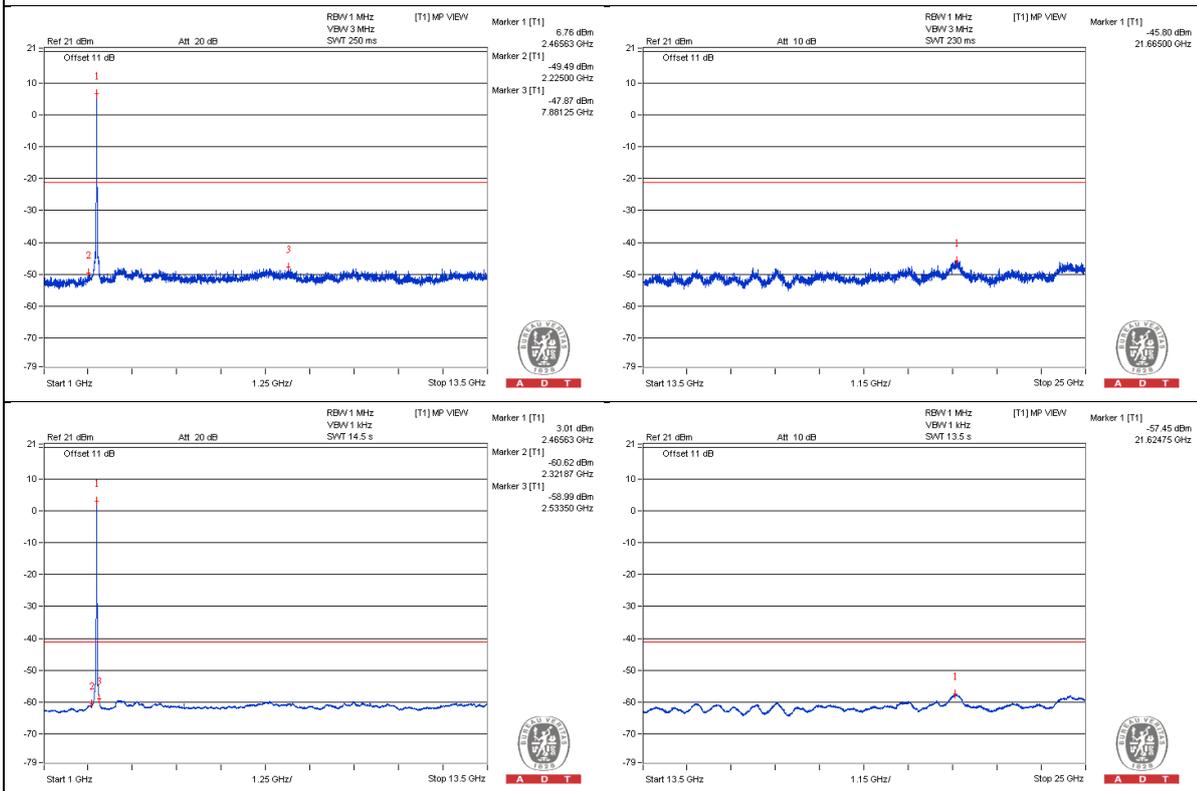
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

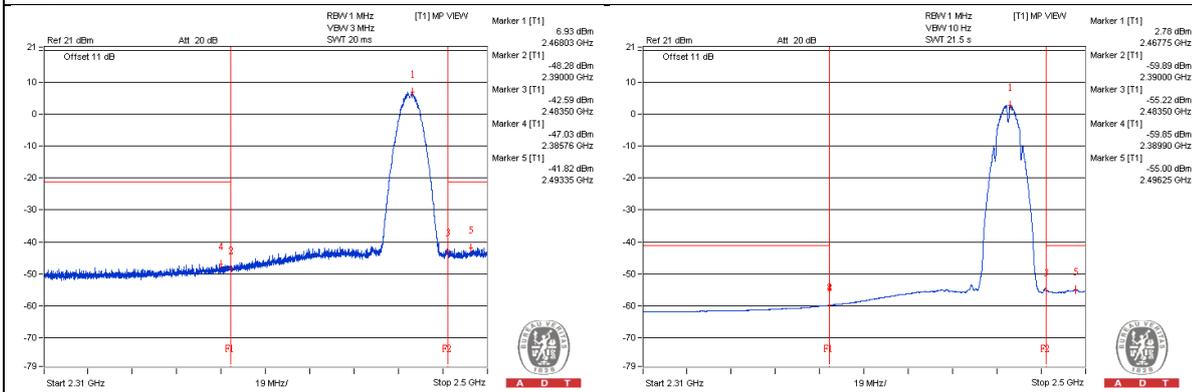
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.895 PK	57.48	74	-16.52	-47.9	-46.99	6.63	-37.78
2	2389.9425 AV	45.16	54	-8.84	-59.86	-59.62	6.63	-50.1
3	2500 PK	62.44	74	-11.56	-43.12	-41.89	6.63	-32.82
4	2496.295 AV	49.98	54	-4.02	-55.01	-54.83	6.63	-45.28

Note :

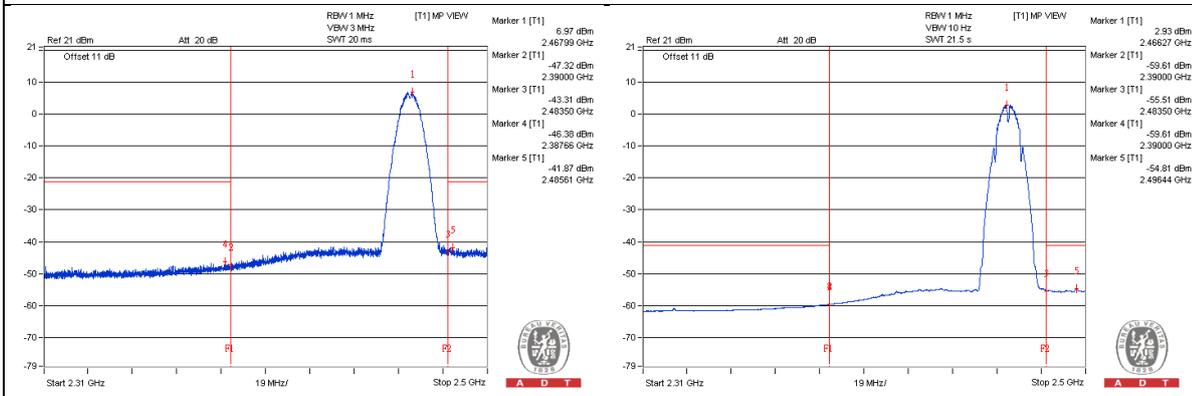
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11b - Channel 13
Conducted spurious emission table

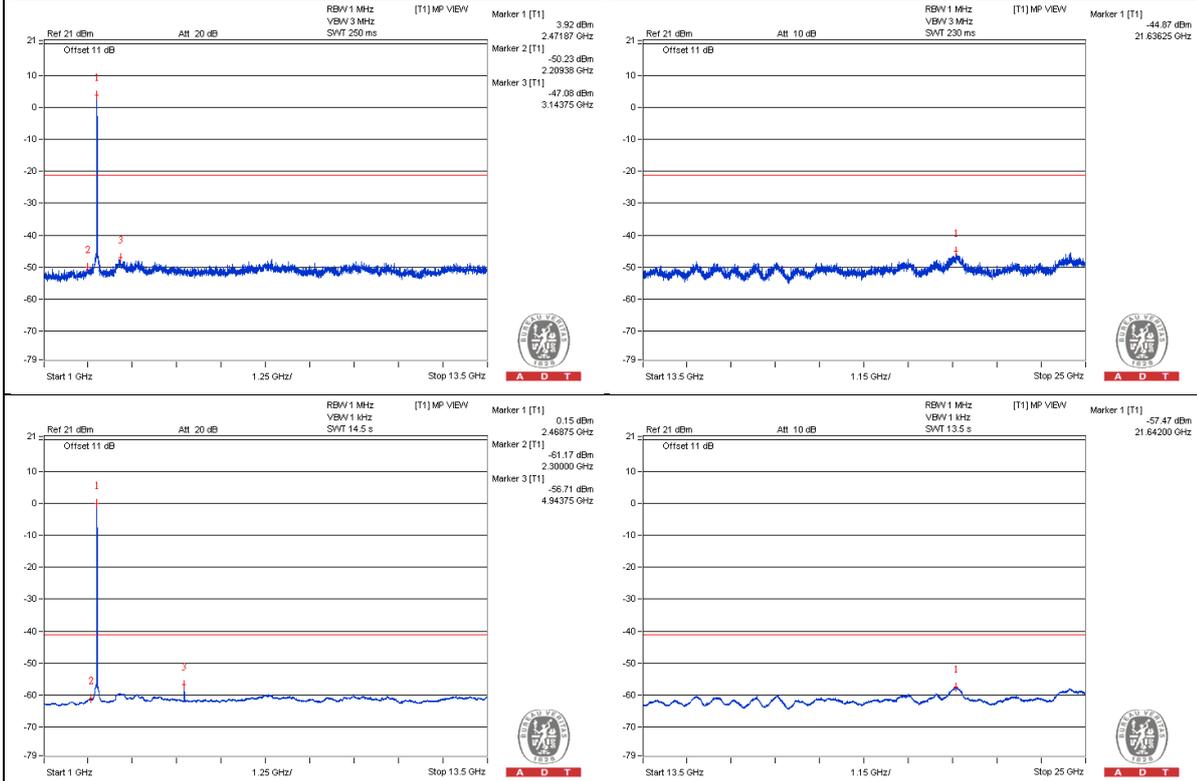
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4943.75 PK	54.01	74	-19.99	-50.55	-51.26	6.63	-41.25
2	4943.75 AV	46.46	54	-7.54	-56.71	-61.35	6.63	-48.8
3	7415.625 PK	55.78	74	-18.22	-49.25	-48.99	6.63	-39.48
4	7415.625 AV	44.71	54	-9.29	-60.24	-60.15	6.63	-50.55

Note :

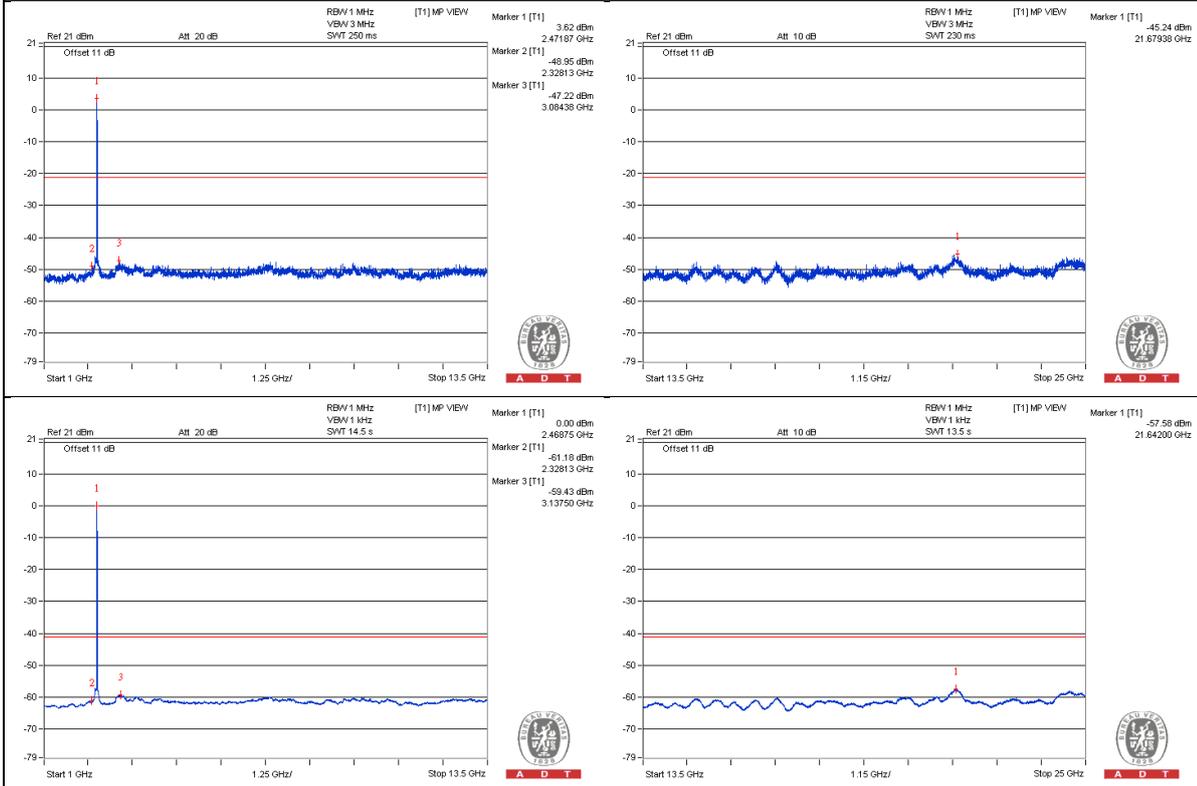
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

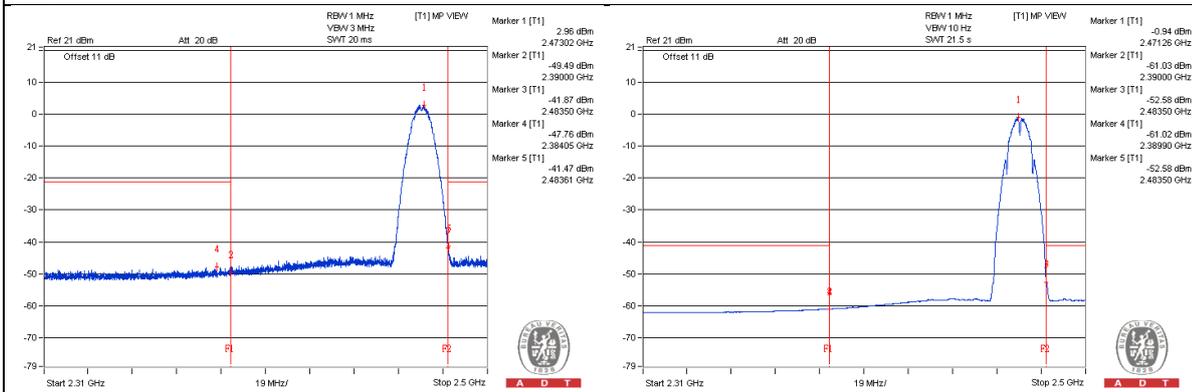
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2385.7625 PK	56.27	74	-17.73	-48.59	-48.68	6.63	-38.99
2	2389.895 AV	43.85	54	-10.15	-61.02	-61.08	6.63	-51.41
3	2483.6125 PK	63.03	74	-10.97	-41.47	-42.32	6.63	-32.23
4	2483.5175 AV	52	54	-2	-52.65	-53.17	6.63	-43.26

Note :

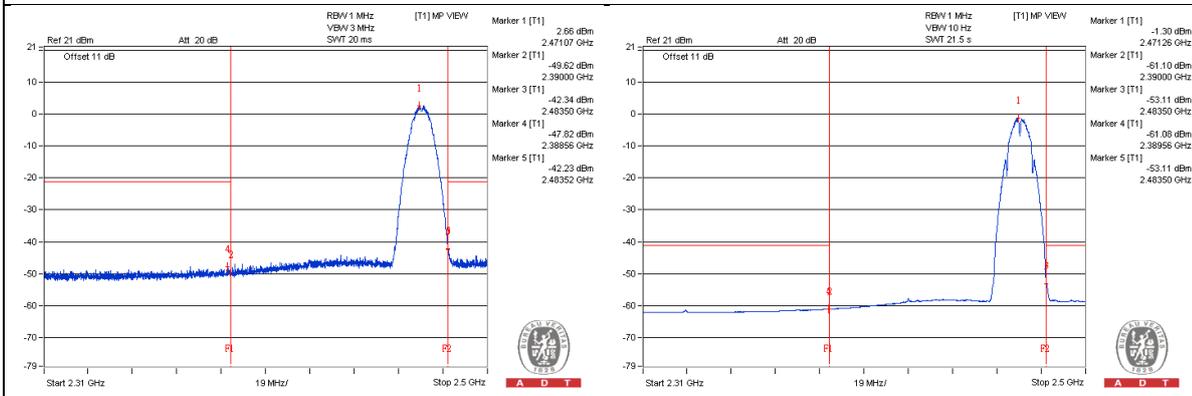
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11g - Channel 1**Conducted spurious emission table**

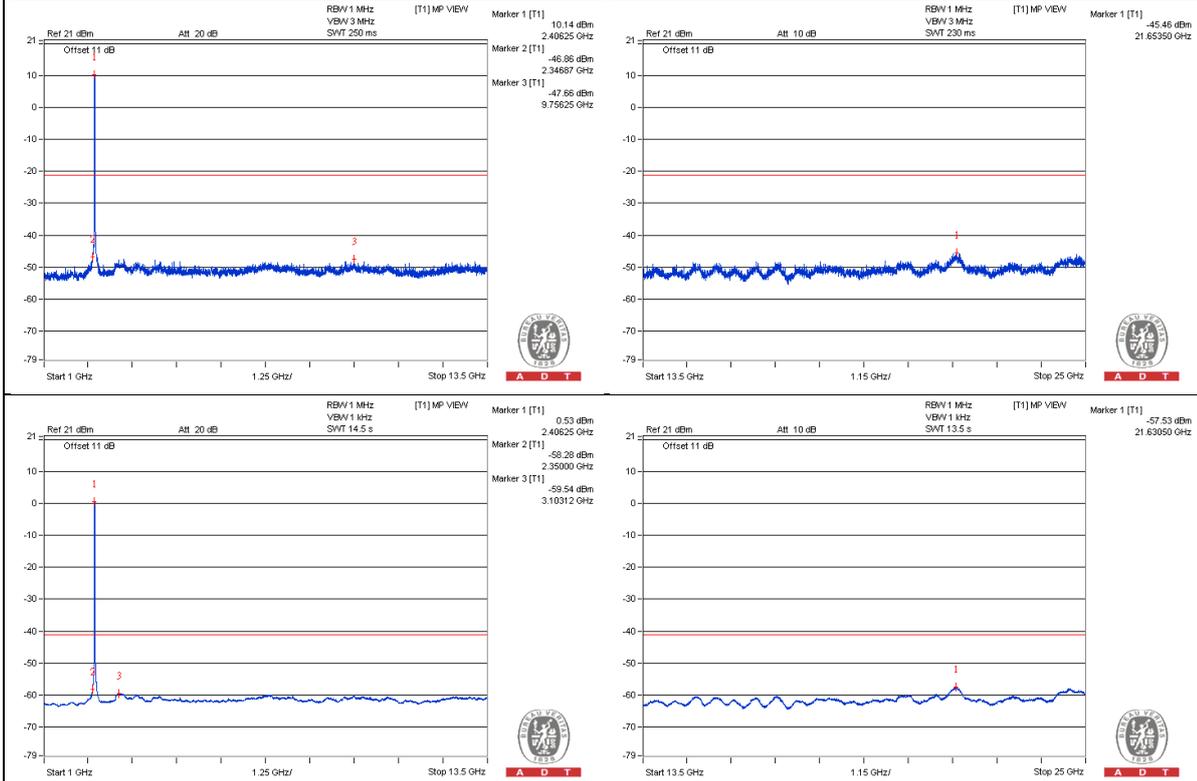
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1609.375 PK	52.59	74	-21.41	-52.76	-51.91	6.63	-42.67
2	1609.375 AV	41.81	54	-12.19	-63.1	-63.09	6.63	-53.45
3	4828.125 PK	55.33	74	-18.67	-48.31	-51.34	6.63	-39.93
4	4825 AV	43.83	54	-10.17	-60.73	-61.45	6.63	-51.43

Note :

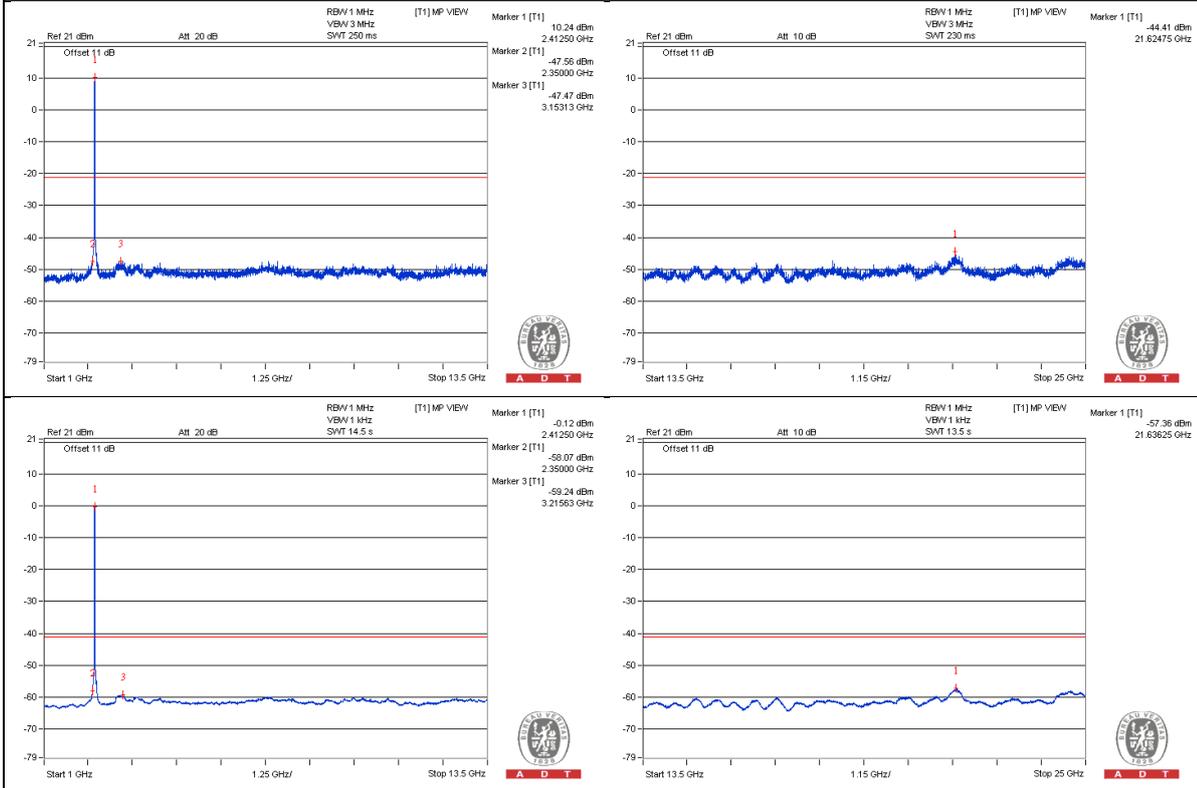
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

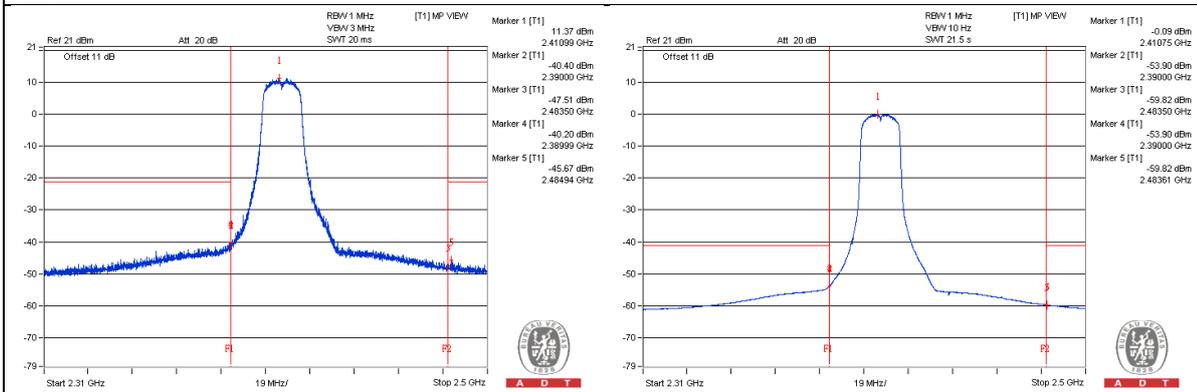
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.4675 PK	65.66	74	-8.34	-40.34	-38.37	6.63	-29.6
2	2389.99 AV	51.71	54	-2.29	-53.91	-52.57	6.63	-43.55
3	2485.56 PK	58.02	74	-15.98	-47.31	-46.49	6.63	-37.24
4	2483.6125 AV	44.94	54	-9.06	-59.82	-60.1	6.63	-50.32

Note :

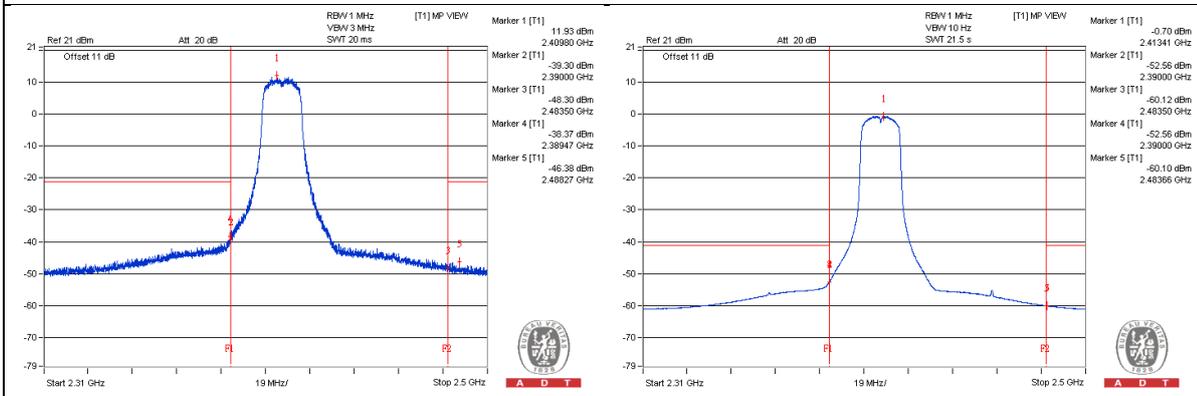
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11g - Channel 6
Conducted spurious emission table

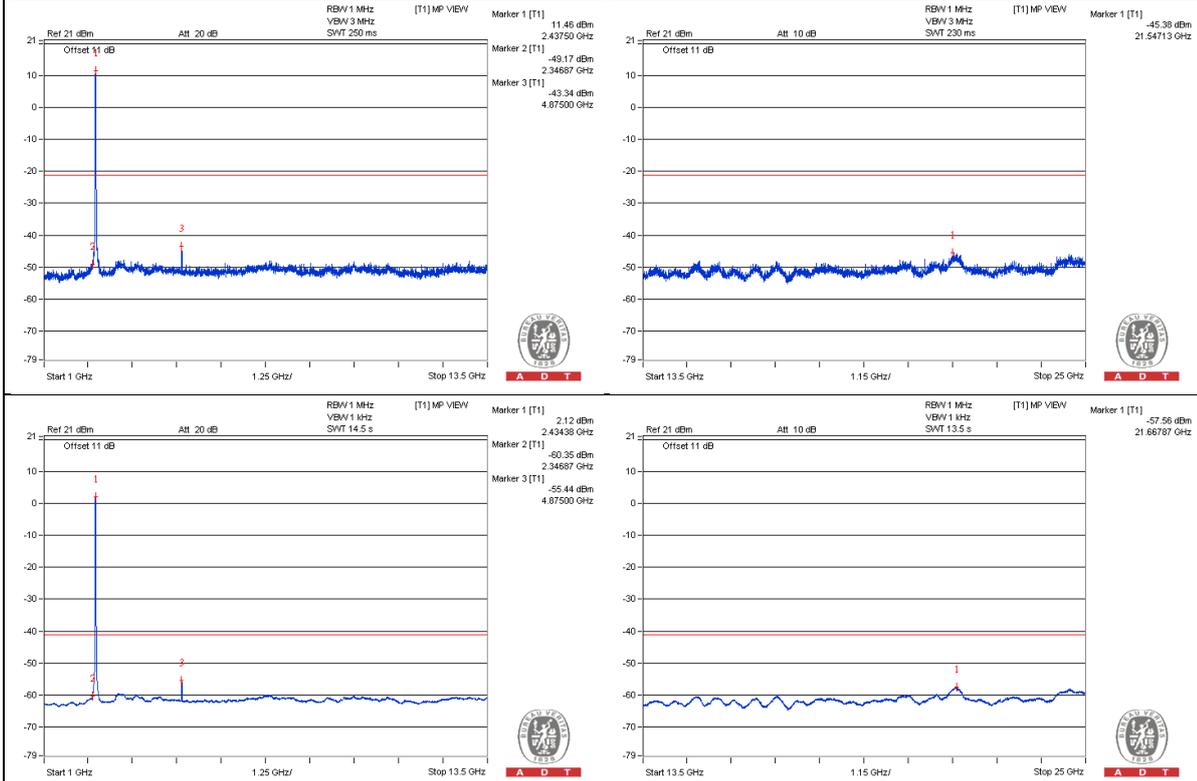
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	52.01	74	-21.99	-52.88	-52.91	6.63	-43.25
2	1625 AV	41.8	54	-12.2	-63.08	-63.13	6.63	-53.46
3	4875 PK	59.27	74	-14.73	-43.34	-50.79	6.63	-35.99
4	4875 AV	47.39	54	-6.61	-55.44	-61.59	6.63	-47.87
5	7315.625 PK	55.36	74	-18.64	-50.42	-48.81	6.63	-39.9
6	7315.625 AV	44.44	54	-9.56	-60.45	-60.47	6.63	-50.82

Note :

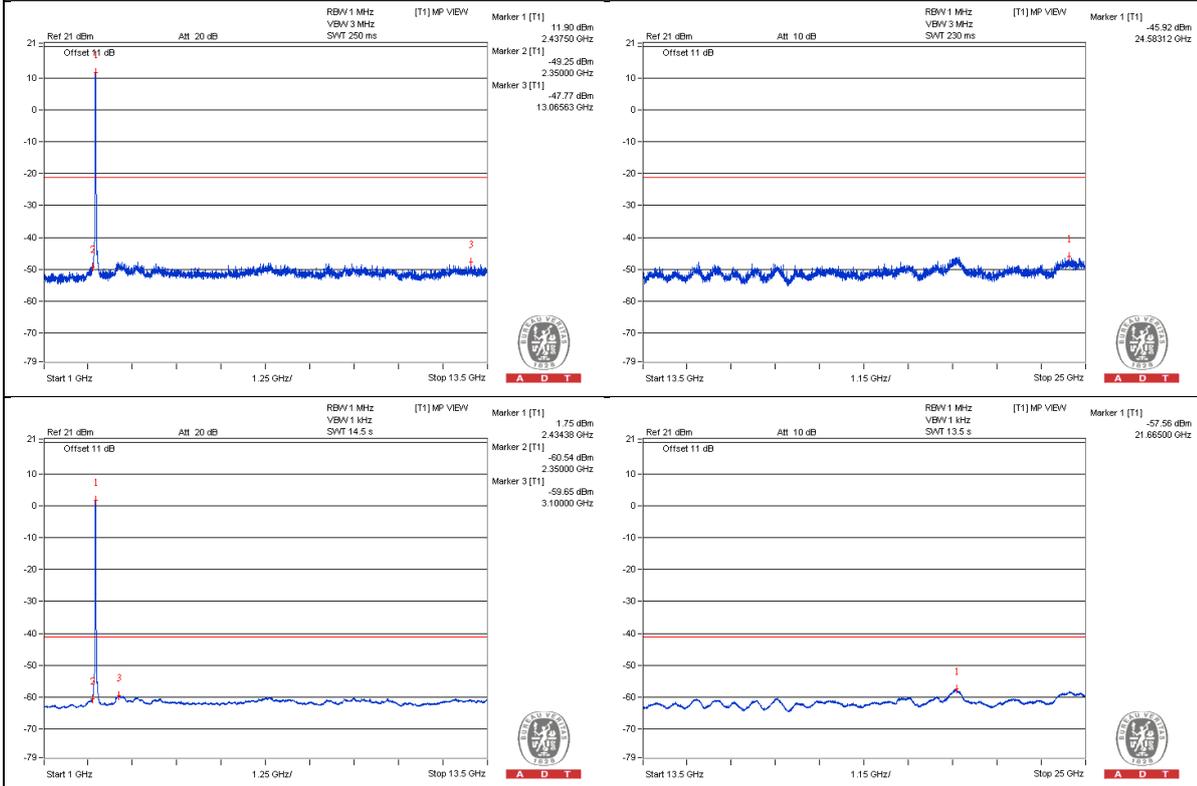
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

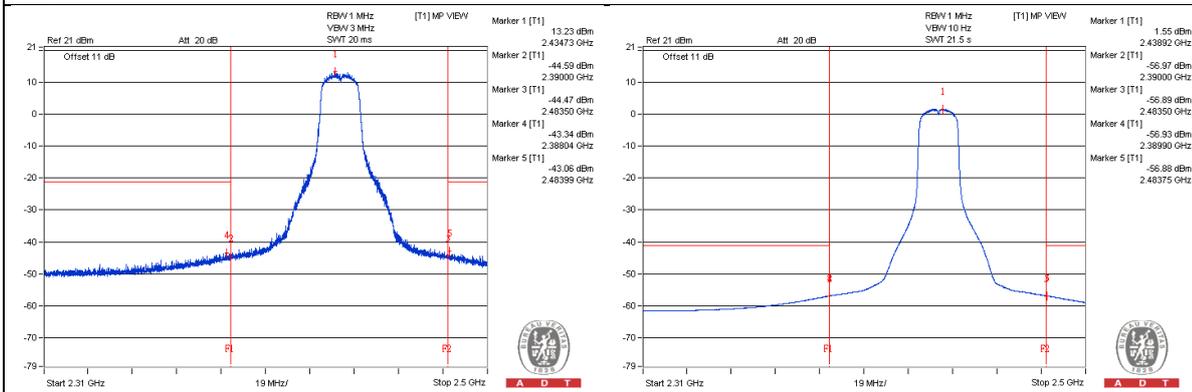
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.3725 PK	61.12	74	-12.88	-44.2	-43.4	6.63	-34.14
2	2388.945 AV	48.29	54	-5.71	-57.1	-56.17	6.63	-46.97
3	2483.9925 PK	62.06	74	-11.94	-43.06	-42.64	6.63	-33.2
4	2485.0375 AV	48.7	54	-5.3	-57.07	-55.48	6.63	-46.56

Note :

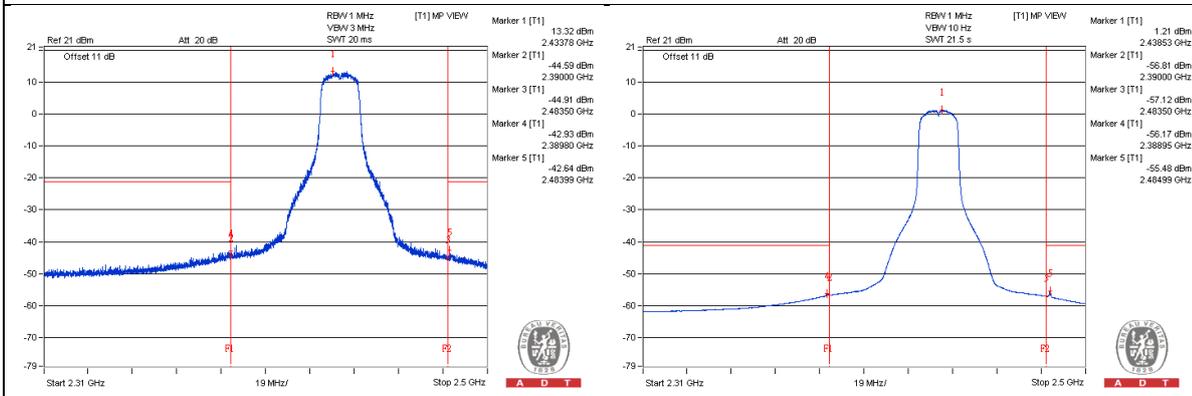
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11g - Channel 11**Conducted spurious emission table**

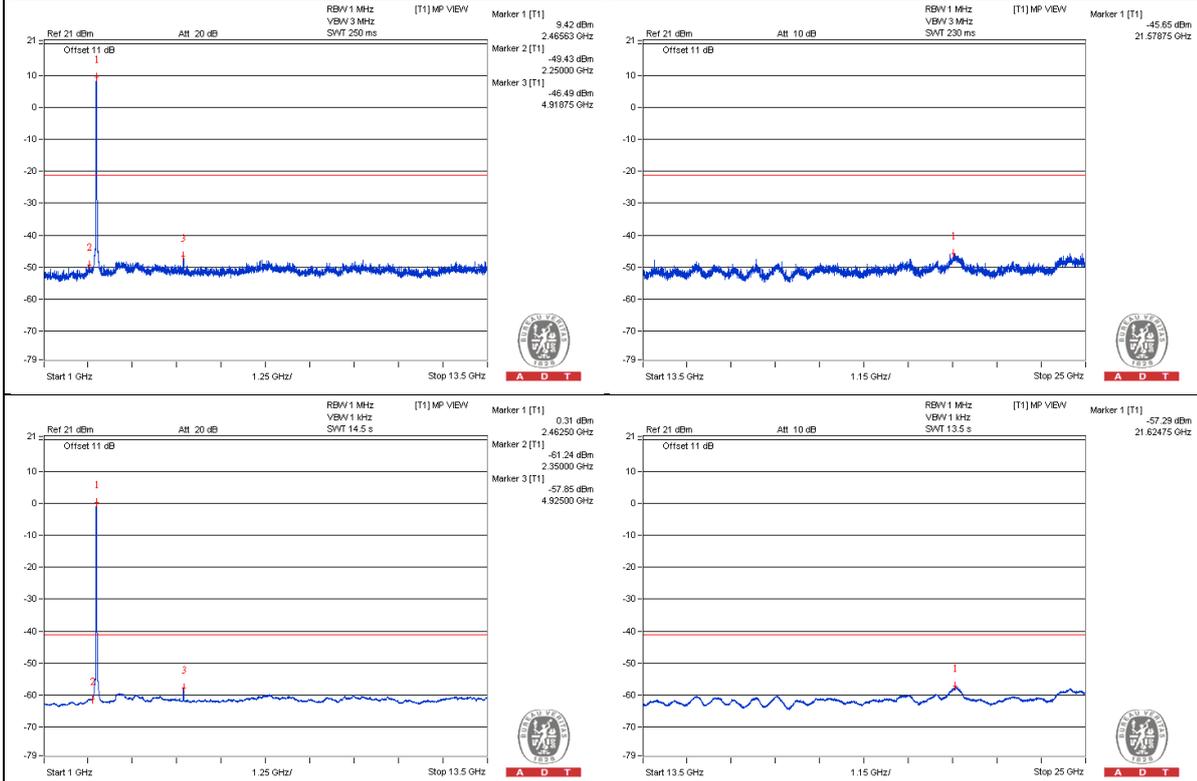
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4925 PK	55.96	74	-18.04	-47.22	-51.82	6.63	-39.3
2	4925 AV	45.54	54	-8.46	-57.85	-61.69	6.63	-49.72
3	7387.5 PK	55.02	74	-18.98	-49.8	-49.96	6.63	-40.24
4	7381.25 AV	44.6	54	-9.4	-60.34	-60.26	6.63	-50.66

Note :

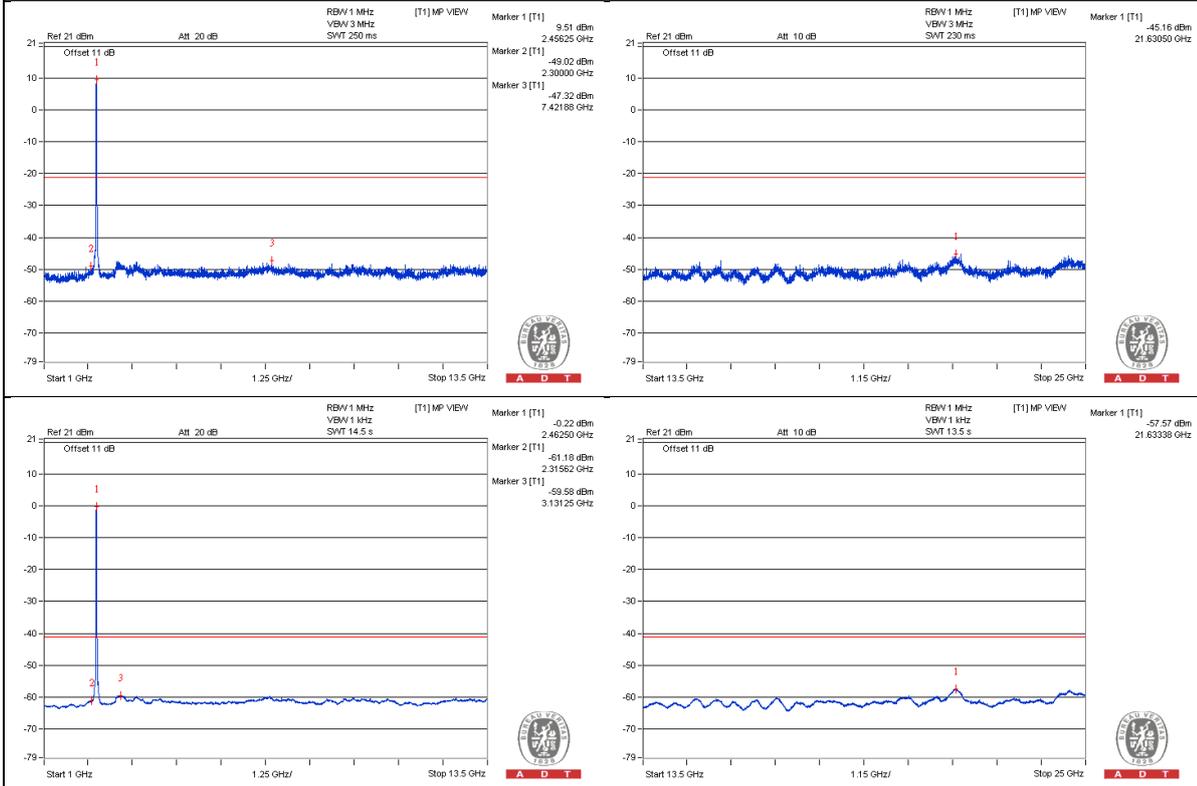
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

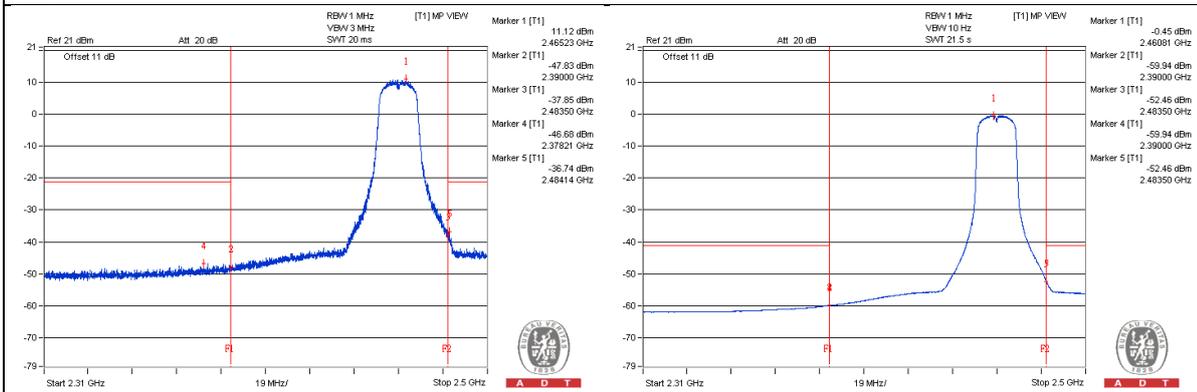
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.7075 PK	57.44	74	-16.56	-48.98	-46.33	6.63	-37.82
2	2389.99 AV	45	54	-9	-59.94	-59.87	6.63	-50.26
3	2483.5175 PK	67.28	74	-6.72	-37.18	-38.1	6.63	-27.98
4	2483.5175 AV	52.1	54	-1.9	-52.49	-53.14	6.63	-43.16

Note :

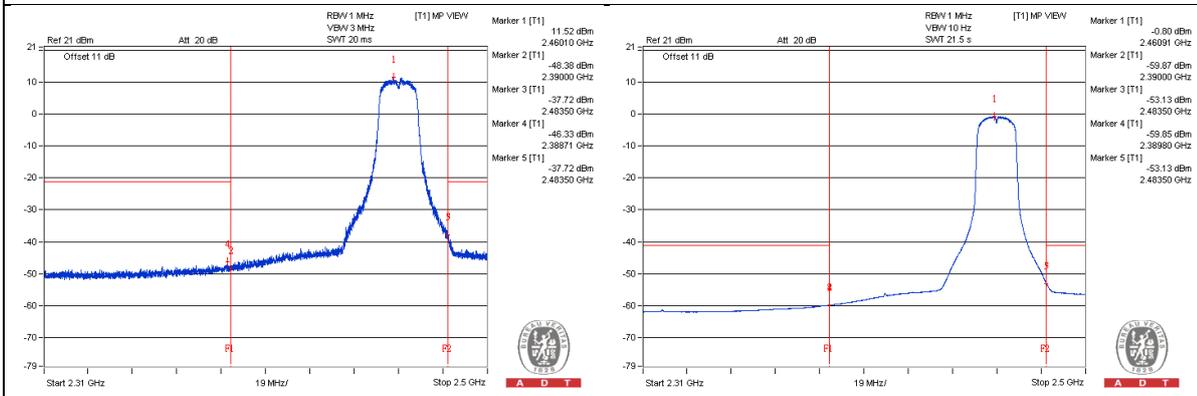
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11g - Channel 12**Conducted spurious emission table**

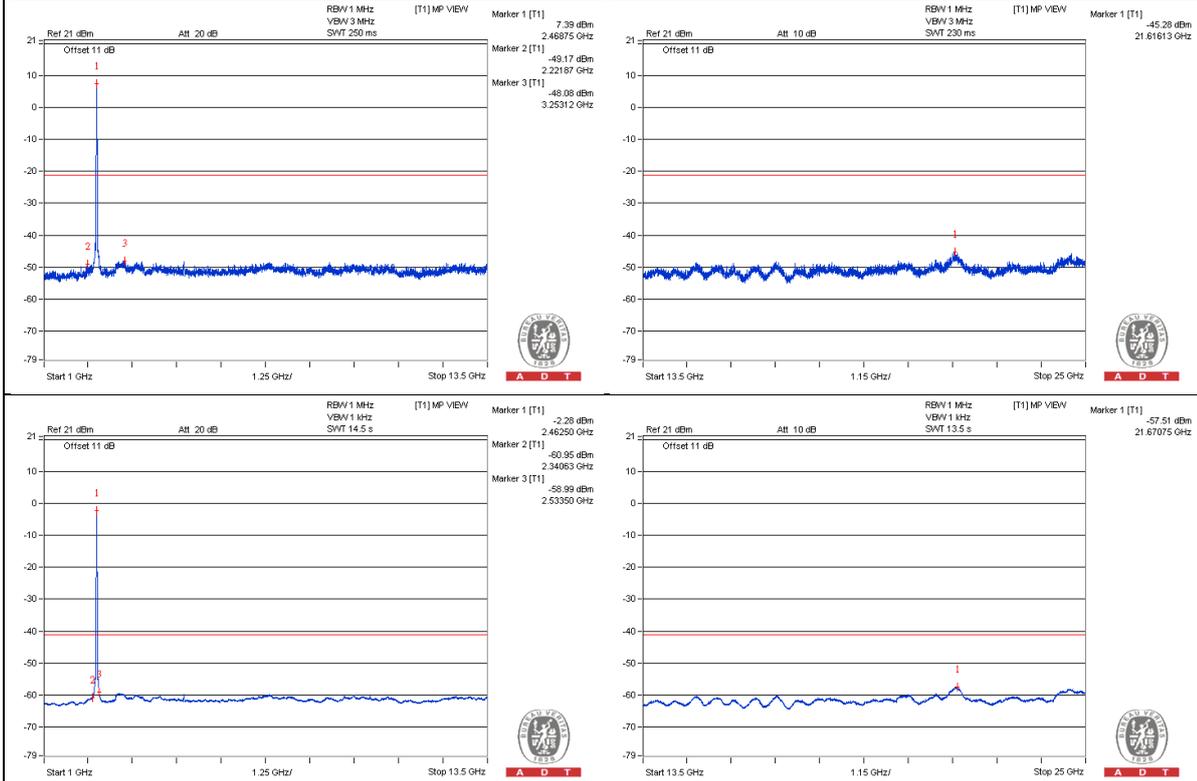
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4934.375 PK	55.15	74	-18.85	-48.78	-51	6.63	-40.11
2	4934.375 AV	44.29	54	-9.71	-59.85	-61.54	6.63	-50.97
3	7396.875 PK	55.44	74	-18.56	-48.79	-50.26	6.63	-39.82
4	7403.125 AV	44.48	54	-9.52	-60.53	-60.32	6.63	-50.78

Note :

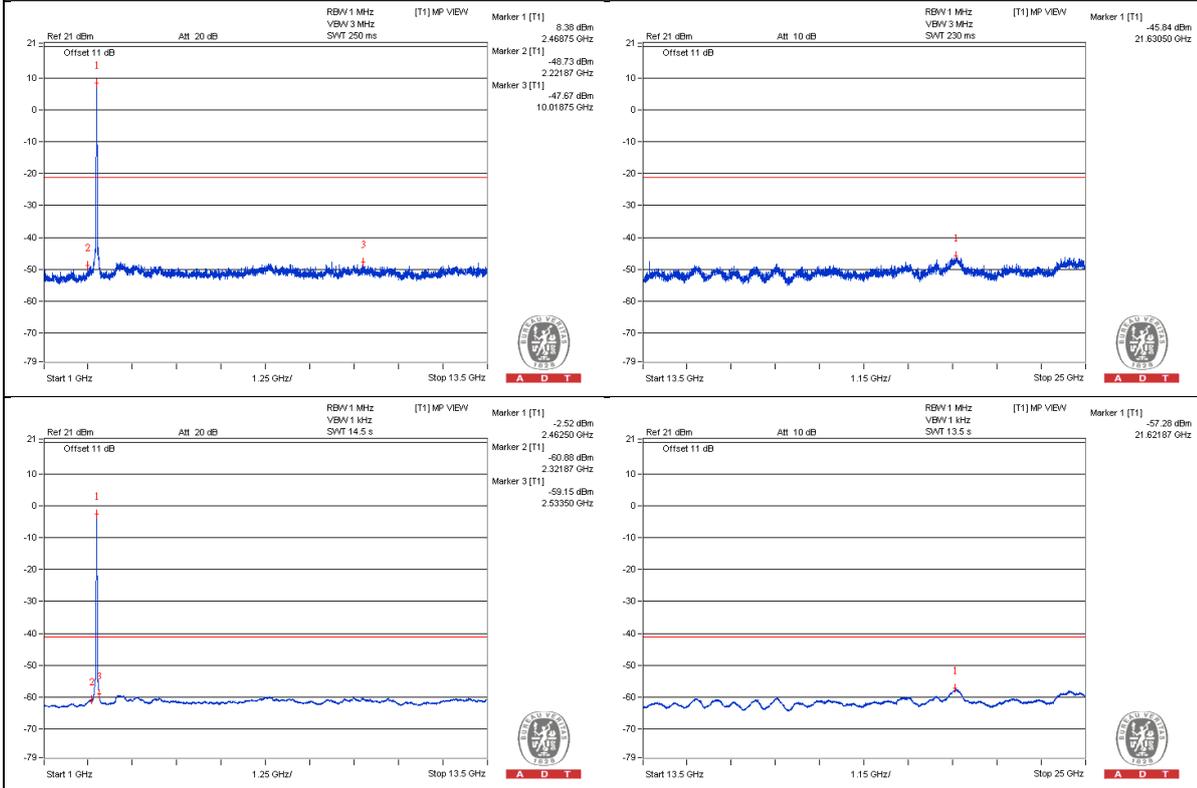
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

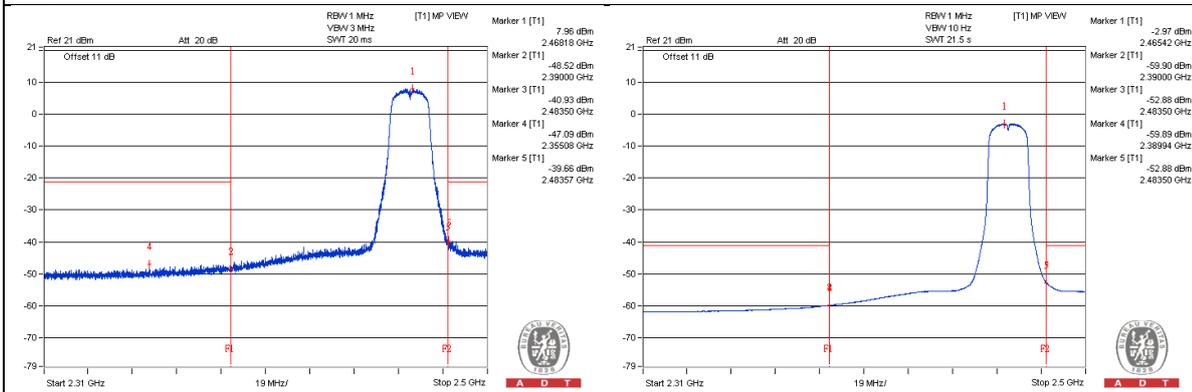
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.4225 PK	57.85	74	-16.15	-47.98	-46.28	6.63	-37.41
2	2389.9425 AV	45.09	54	-8.91	-59.89	-59.73	6.63	-50.17
3	2484.135 PK	64.57	74	-9.43	-41.43	-39.45	6.63	-30.69
4	2483.5175 AV	51.62	54	-2.38	-52.88	-53.72	6.63	-43.64

Note :

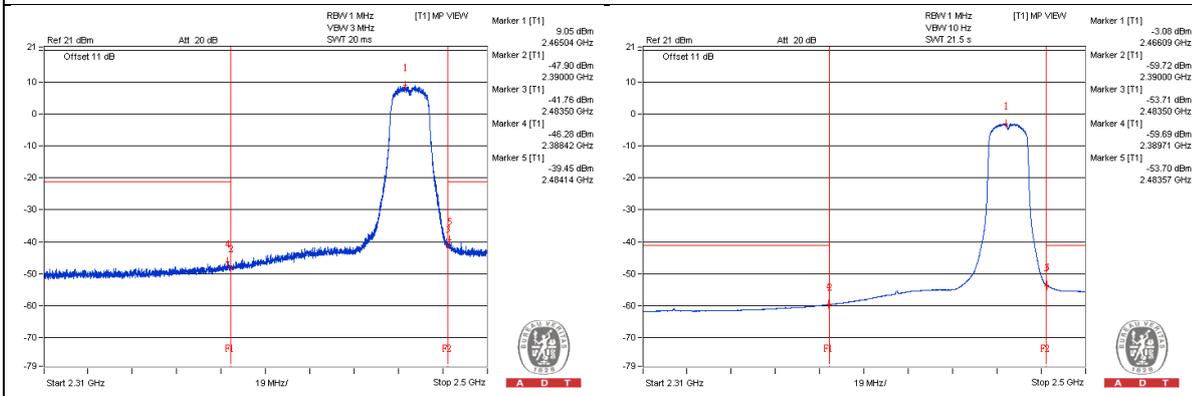
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11g - Channel 13
Conducted spurious emission table

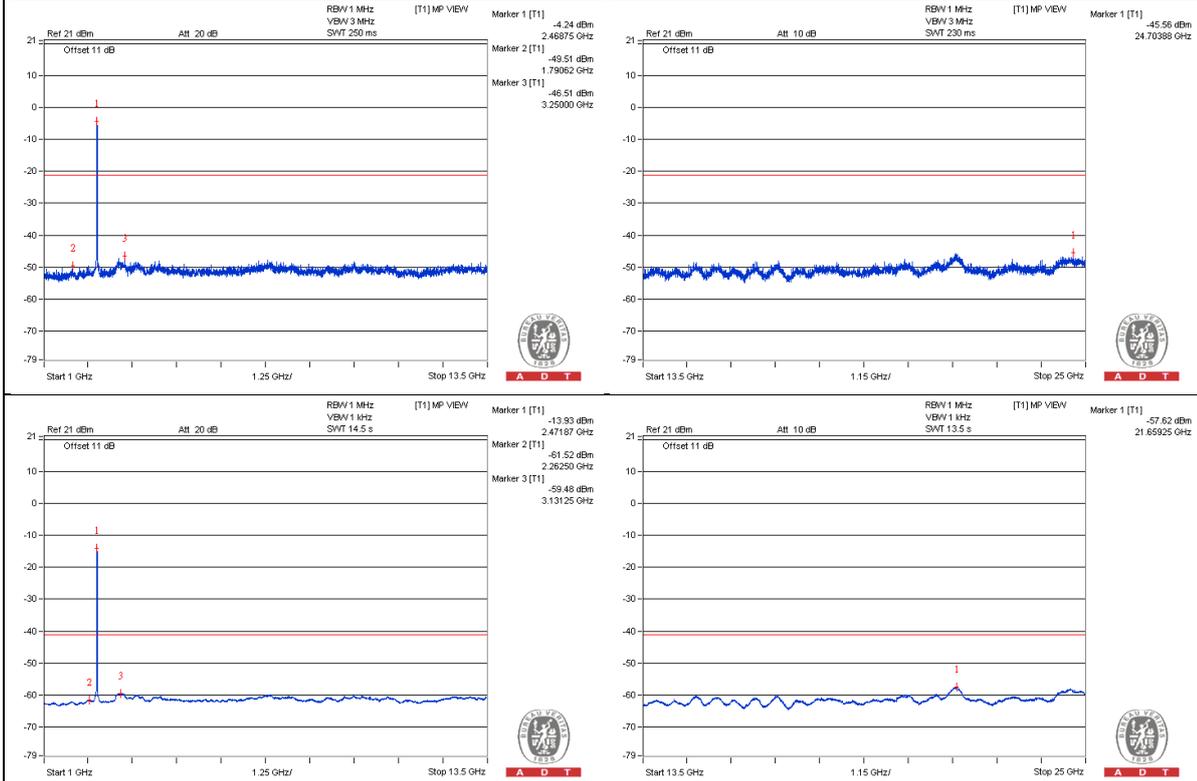
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4940.625 PK	53.36	74	-20.64	-51.52	-51.57	6.63	-41.9
2	4943.75 AV	43.13	54	-10.87	-61.68	-61.87	6.63	-52.13
3	7415.625 PK	55.46	74	-18.54	-48.42	-50.77	6.63	-39.8
4	7418.75 AV	44.77	54	-9.23	-60.14	-60.12	6.63	-50.49

Note :

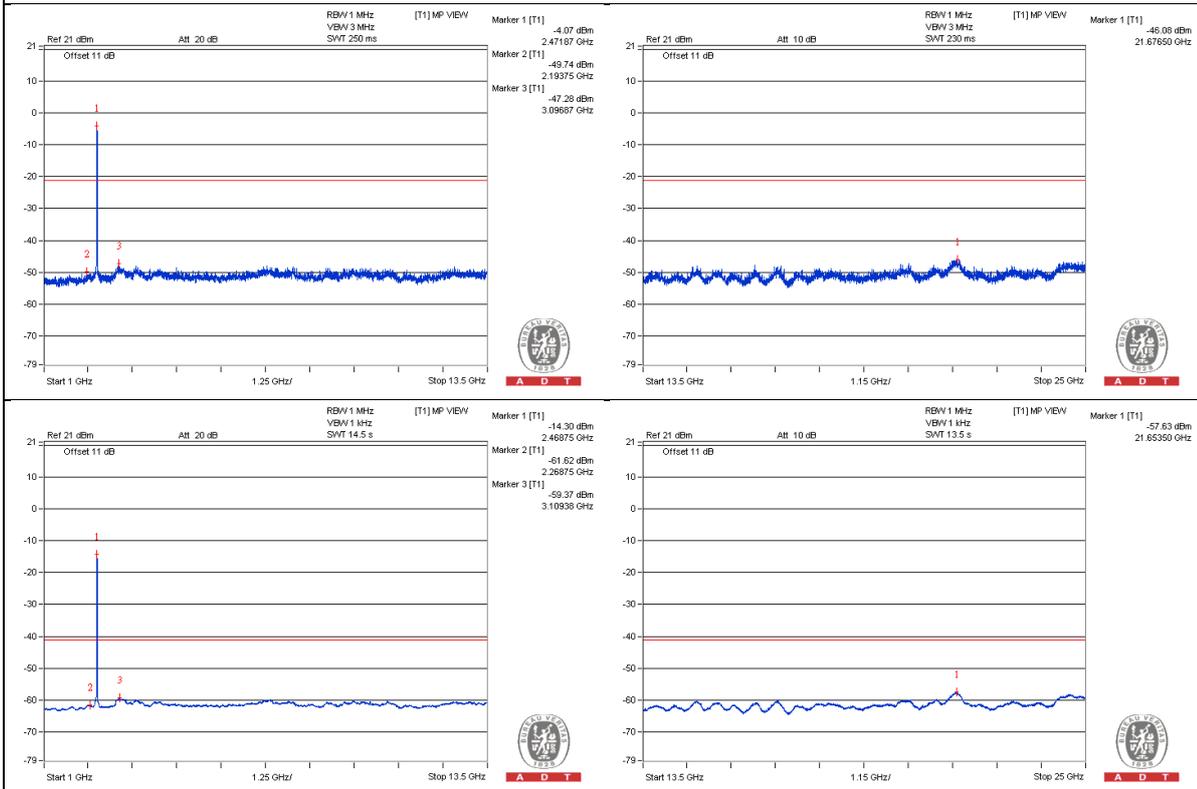
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

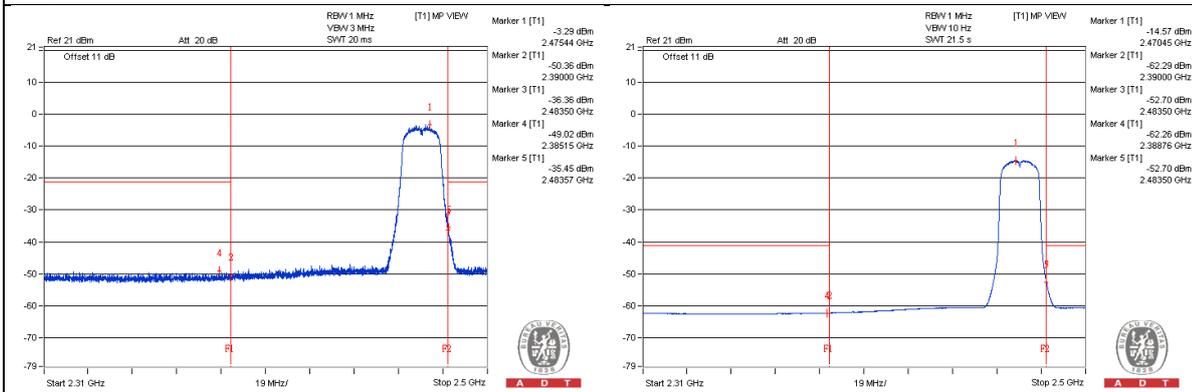
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2385.145 PK	55.17	74	-18.83	-49.02	-50.57	6.63	-40.09
2	2388.755 AV	42.64	54	-11.36	-62.26	-62.27	6.63	-52.62
3	2483.6125 PK	68.87	74	-5.13	-36.35	-35.74	6.63	-26.39
4	2483.5175 AV	51.95	54	-2.05	-52.79	-53.11	6.63	-43.31

Note :

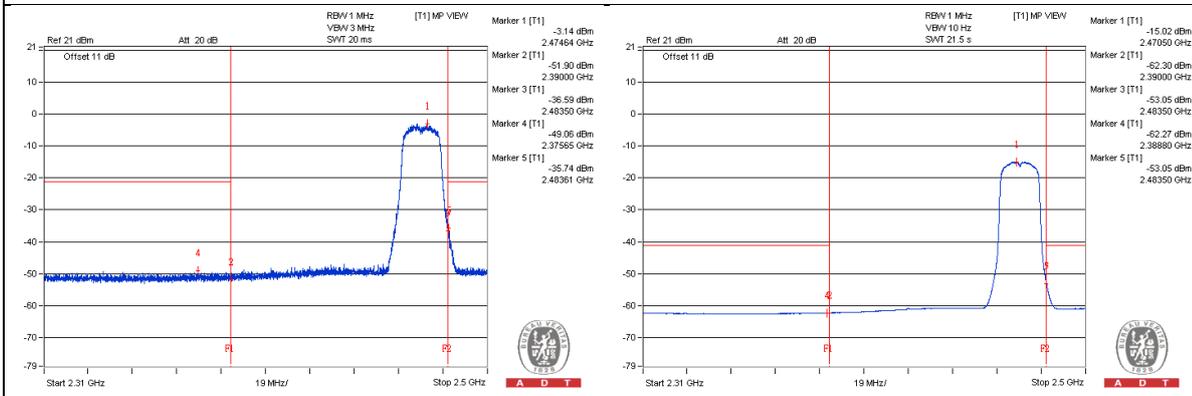
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT20 - Channel 1
Conducted spurious emission table

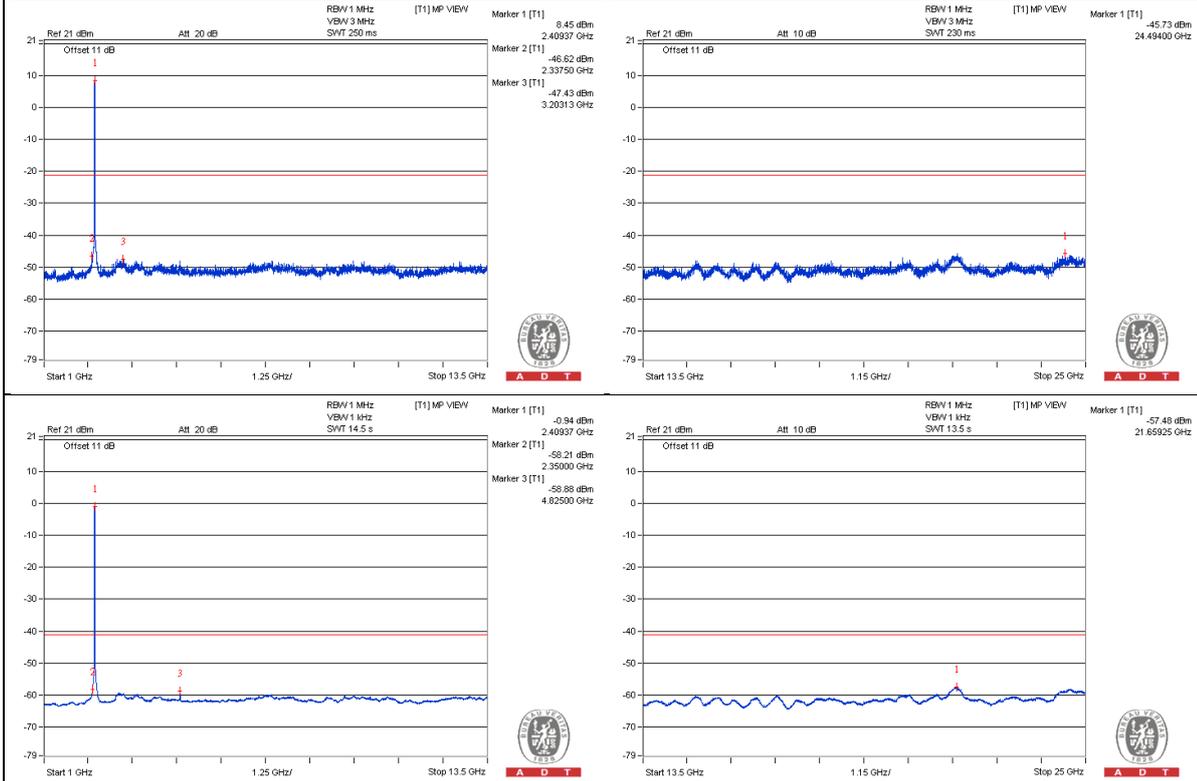
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1609.375 PK	51.91	74	-22.09	-52.64	-53.38	6.63	-43.35
2	1606.25 AV	41.88	54	-12.12	-62.95	-63.09	6.63	-53.38
3	4825 PK	55.46	74	-18.54	-48.08	-51.43	6.63	-39.8
4	4825 AV	44.88	54	-9.12	-58.88	-61.58	6.63	-50.38

Note :

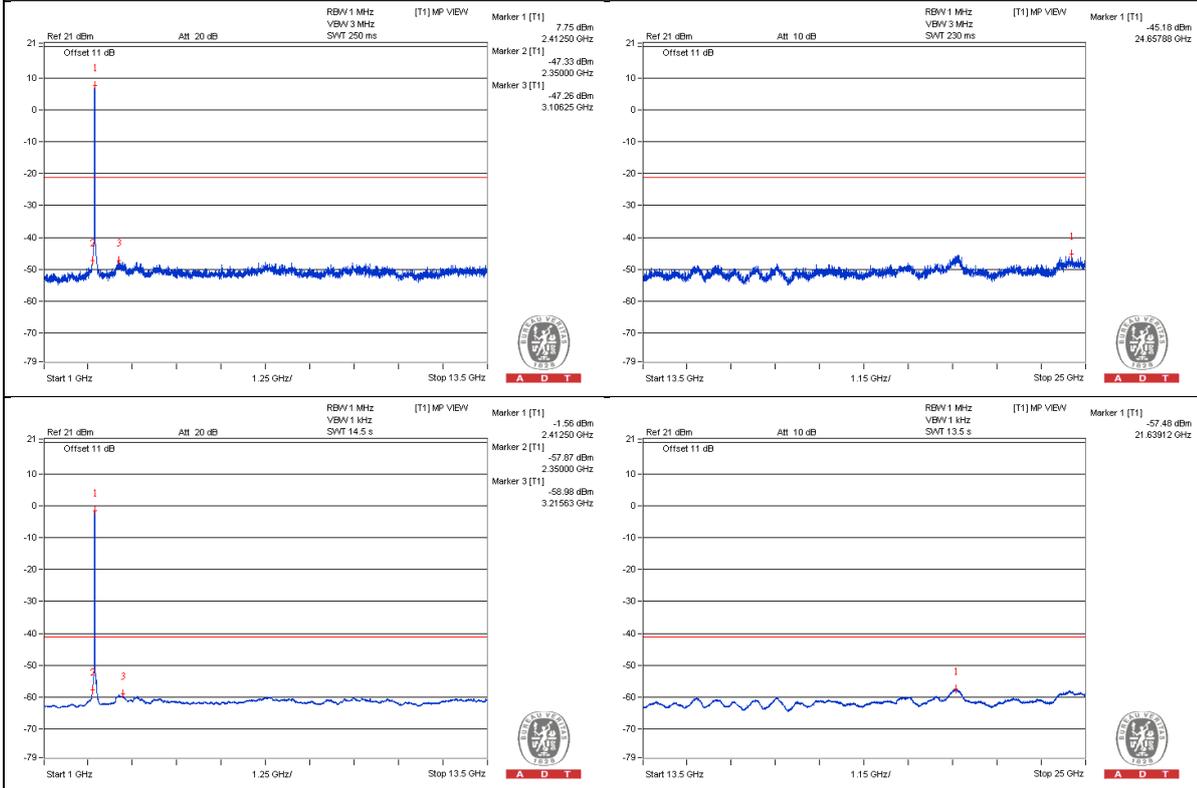
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

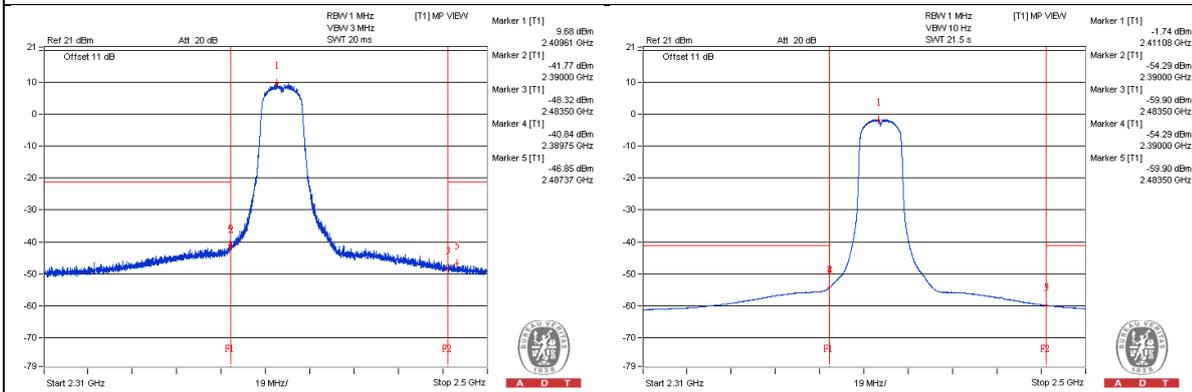
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.9425 PK	64.61	74	-9.39	-42.4	-38.88	6.63	-30.65
2	2389.99 AV	51.15	54	-2.85	-54.31	-53.26	6.63	-44.11
3	2484.04 PK	57.51	74	-16.49	-47.77	-47.04	6.63	-37.75
4	2483.5175 AV	44.88	54	-9.12	-59.9	-60.15	6.63	-50.38

Note :

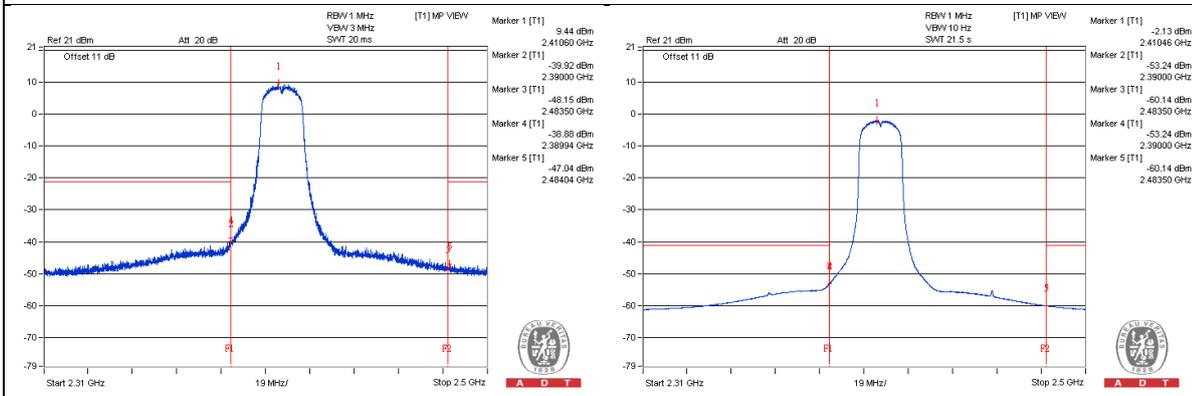
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT20 - Channel 6
Conducted spurious emission table

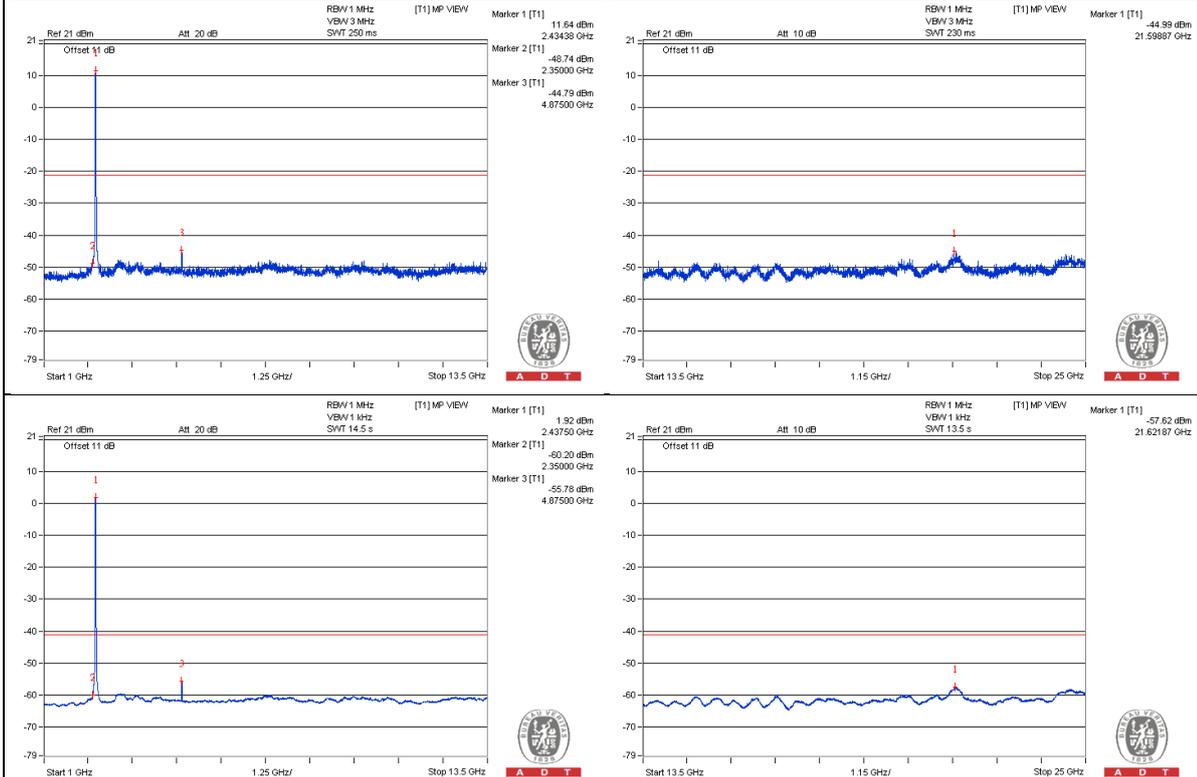
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	51.65	74	-22.35	-53.94	-52.65	6.63	-43.61
2	1625 AV	41.66	54	-12.34	-63.29	-63.2	6.63	-53.6
3	4875 PK	58.02	74	-15.98	-44.79	-51.05	6.63	-37.24
4	4875 AV	47.11	54	-6.89	-55.78	-61.64	6.63	-48.15
5	7315.625 PK	54.97	74	-19.03	-49.81	-50.06	6.63	-40.29
6	7315.625 AV	44.42	54	-9.58	-60.45	-60.52	6.63	-50.84

Note :

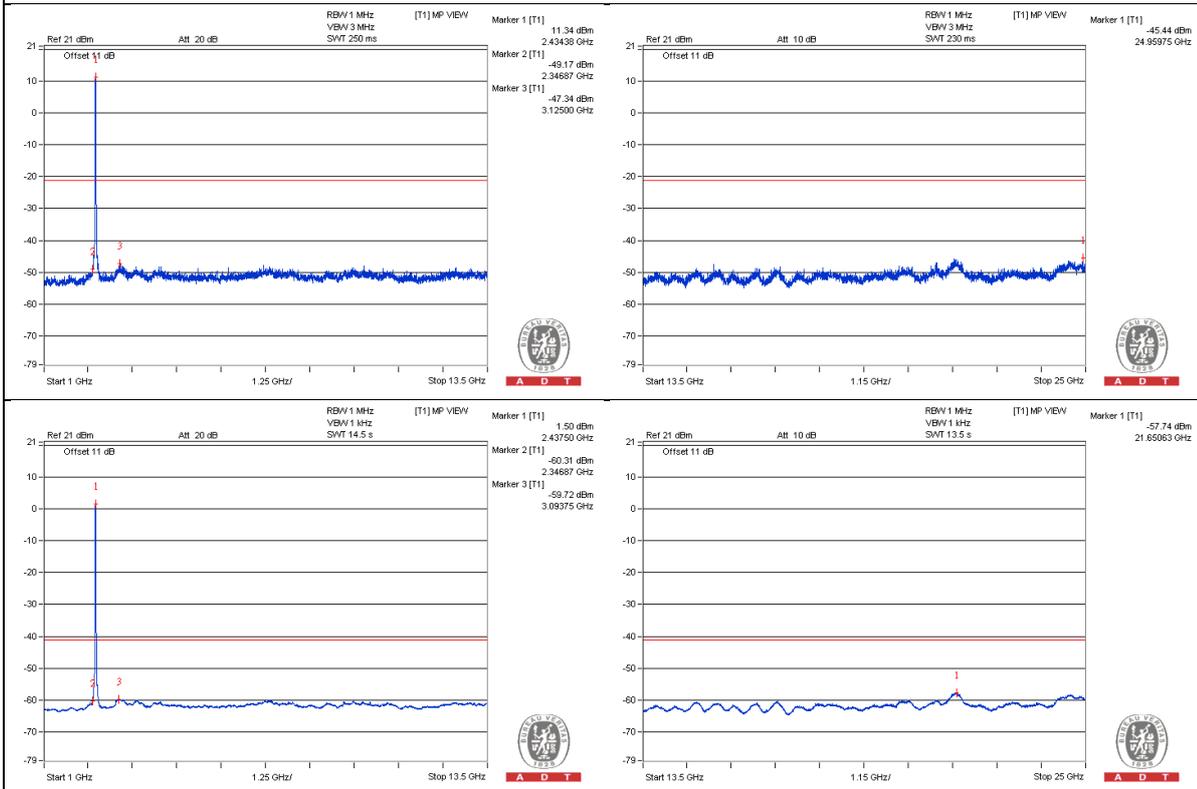
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

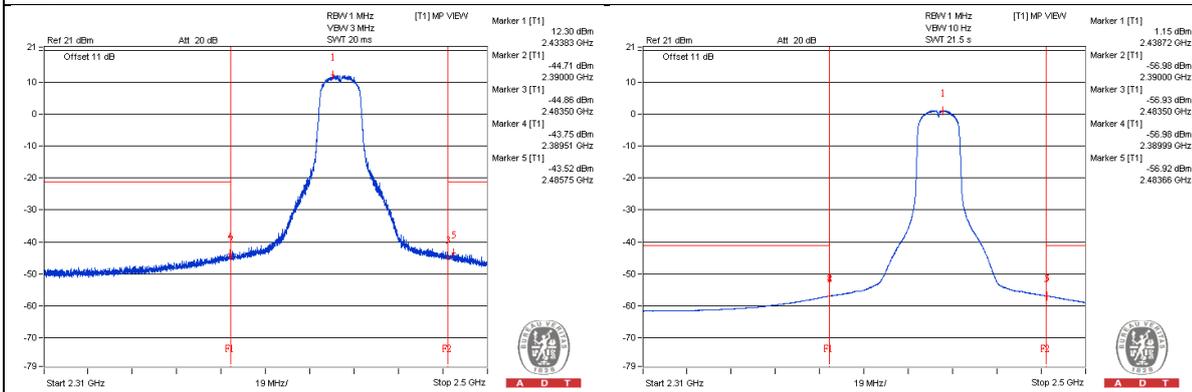
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.7075 PK	61.47	74	-12.53	-45.39	-42.09	6.63	-33.79
2	2389.04 AV	48.3	54	-5.7	-57.11	-56.14	6.63	-46.96
3	2484.8 PK	61.02	74	-12.98	-44.49	-43.34	6.63	-34.24
4	2485.085 AV	48.66	54	-5.34	-57.08	-55.54	6.63	-46.6

Note :

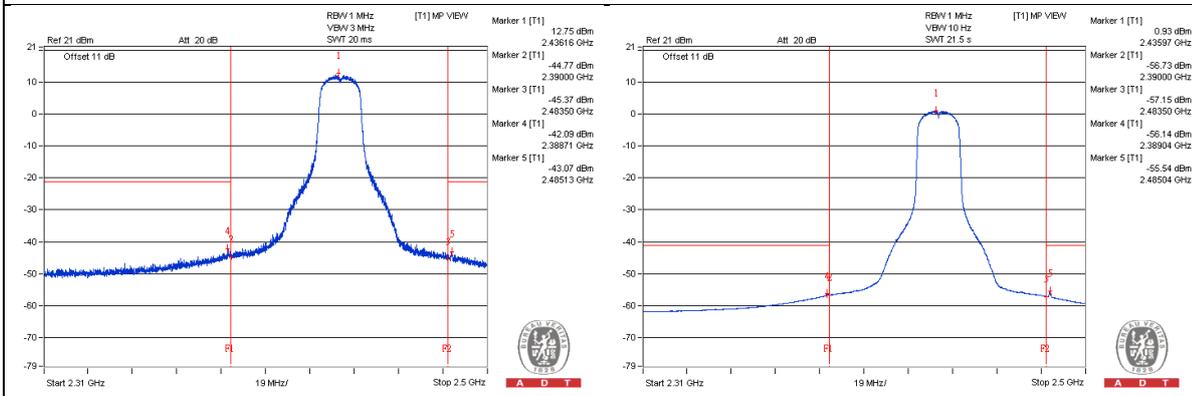
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT20 - Channel 11
Conducted spurious emission table

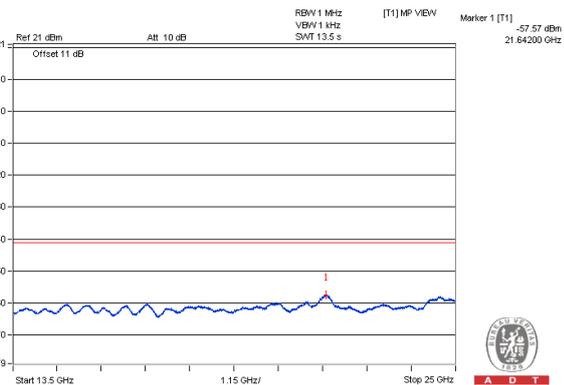
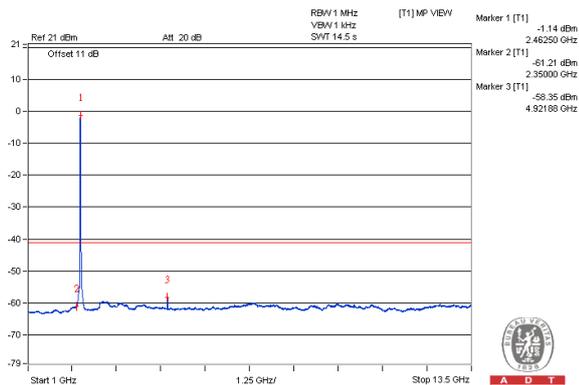
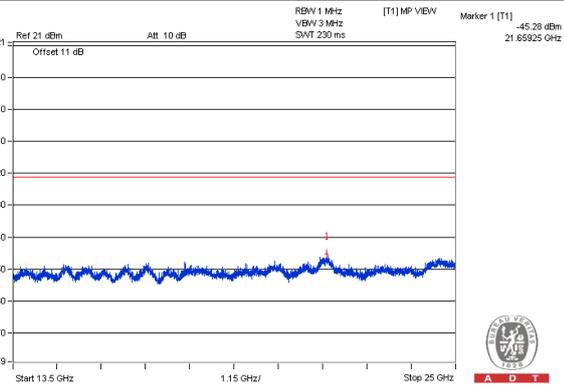
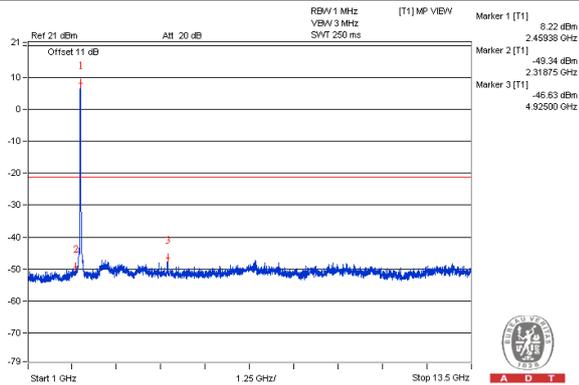
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4925 PK	56.51	74	-17.49	-46.63	-51.38	6.63	-38.75
2	4921.875 AV	45.2	54	-8.8	-58.35	-61.68	6.63	-50.06
3	7381.25 PK	56.12	74	-17.88	-48.03	-49.68	6.63	-39.14
4	7381.25 AV	44.69	54	-9.31	-60.14	-60.29	6.63	-50.57

Note :

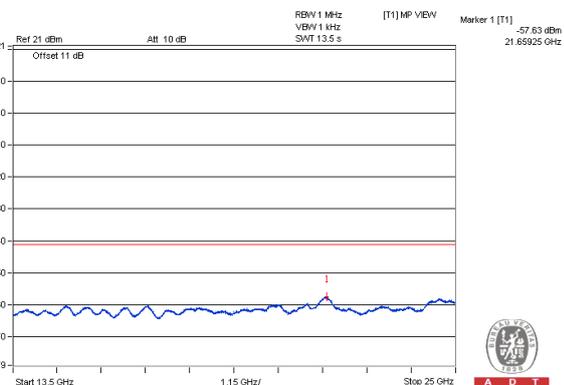
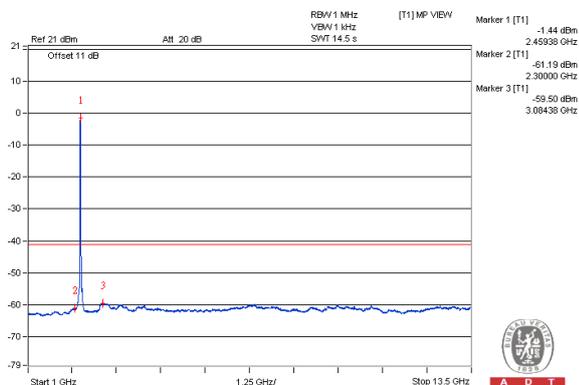
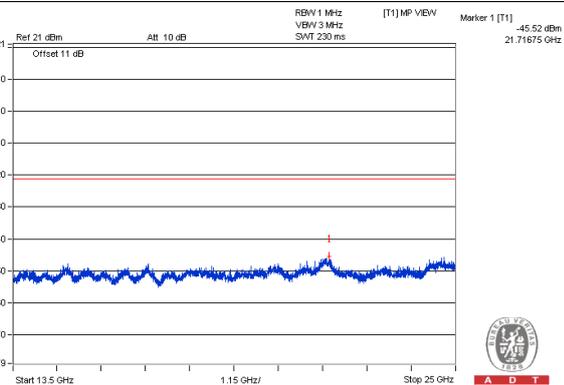
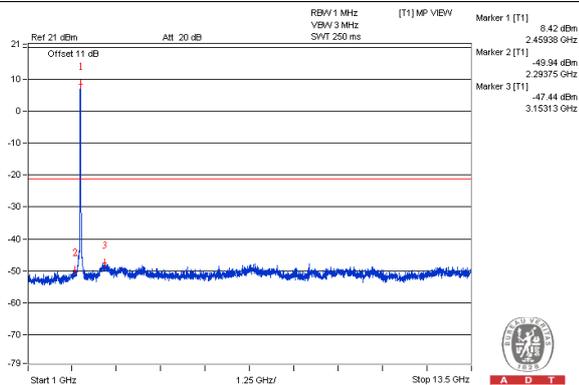
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

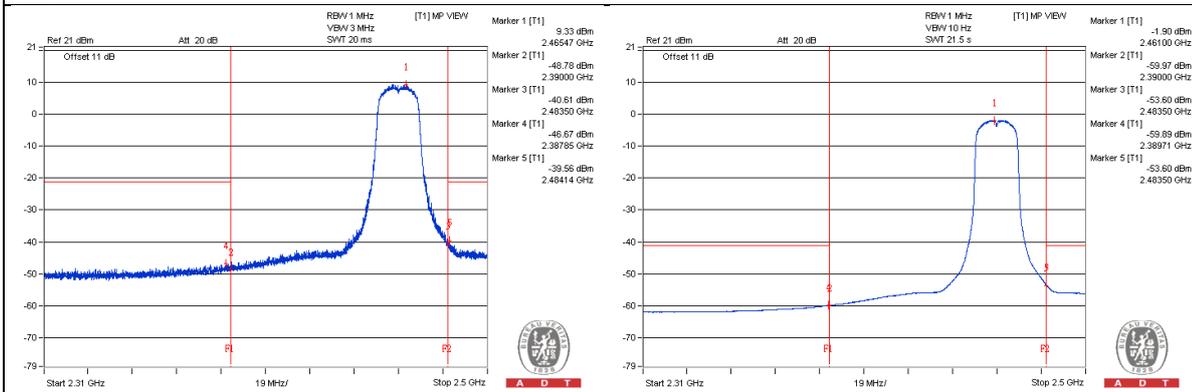
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.61 PK	57.68	74	-16.32	-48.45	-46.27	6.63	-37.58
2	2389.7525 AV	45.05	54	-8.95	-59.9	-59.8	6.63	-50.21
3	2483.5175 PK	64.28	74	-9.72	-40.61	-40.64	6.63	-30.98
4	2483.5175 AV	51.15	54	-2.85	-53.64	-53.87	6.63	-44.11

Note :

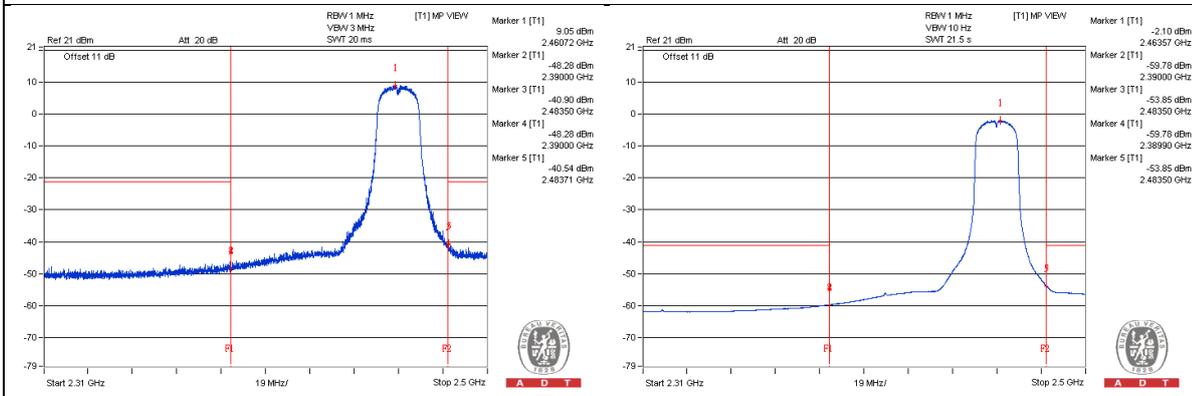
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT20 - Channel 12
Conducted spurious emission table

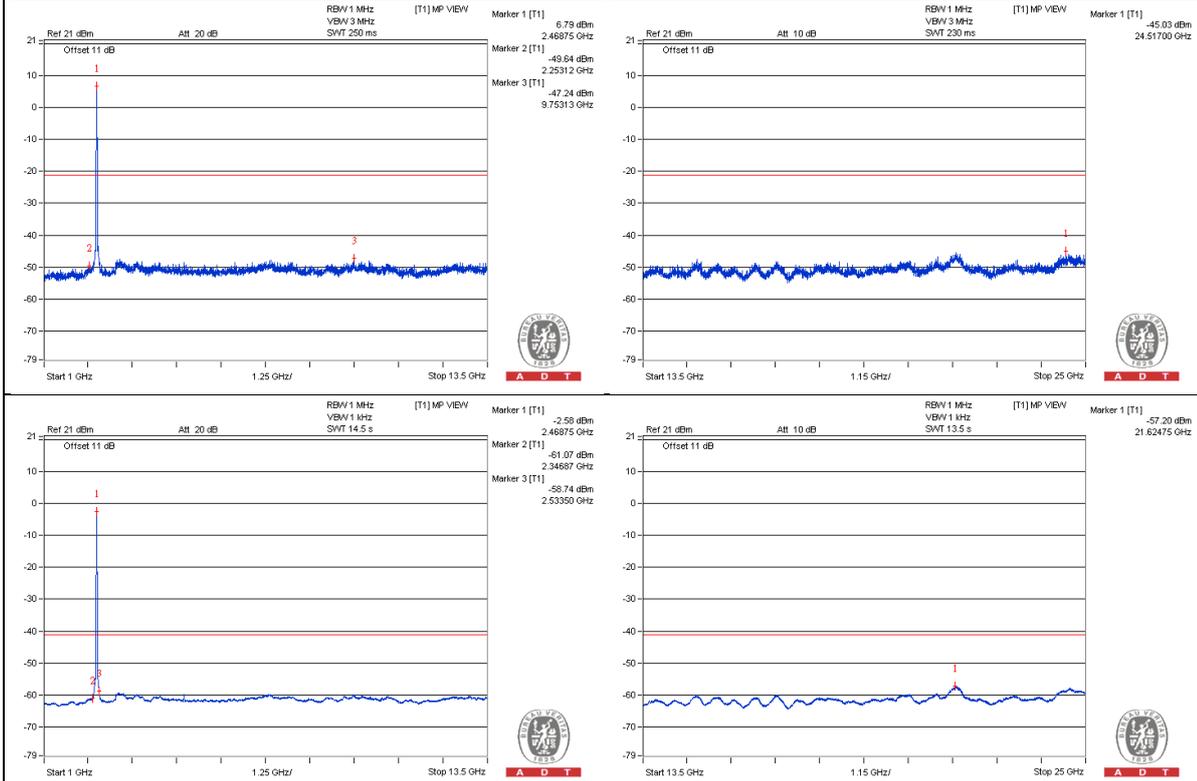
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4934.375 PK	55.08	74	-18.92	-48.55	-51.63	6.63	-40.18
2	4934.375 AV	44.27	54	-9.73	-59.92	-61.47	6.63	-50.99
3	7403.125 PK	56.46	74	-17.54	-47.86	-49.12	6.63	-38.8
4	7403.125 AV	44.5	54	-9.5	-60.3	-60.51	6.63	-50.76

Note :

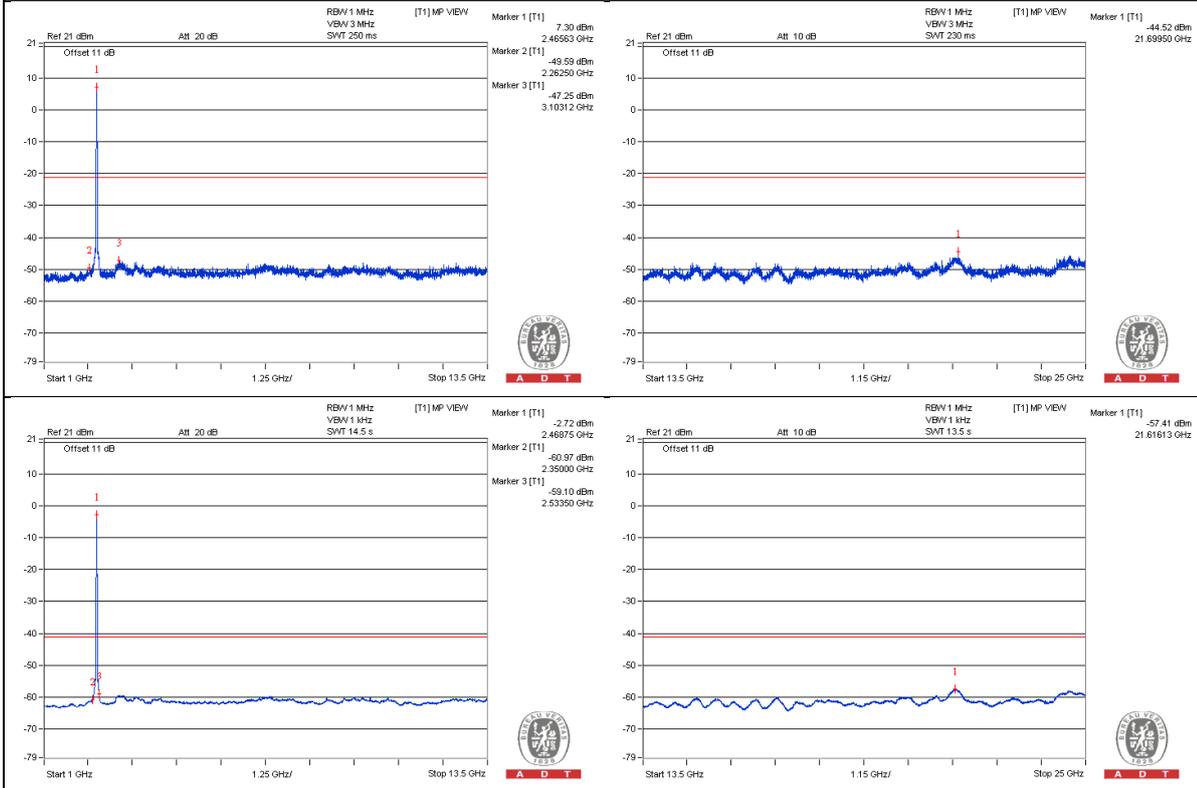
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

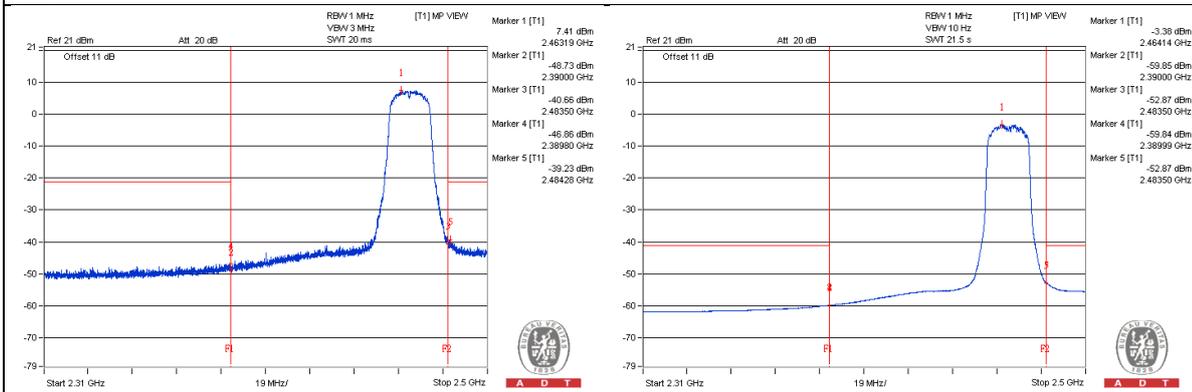
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2387.3775 PK	58.26	74	-15.74	-46.99	-46.32	6.63	-37
2	2389.99 AV	45.12	54	-8.88	-59.84	-59.72	6.63	-50.14
3	2484.2775 PK	64.87	74	-9.13	-39.23	-41.02	6.63	-30.39
4	2483.5175 AV	51.68	54	-2.32	-52.88	-53.6	6.63	-43.58

Note :

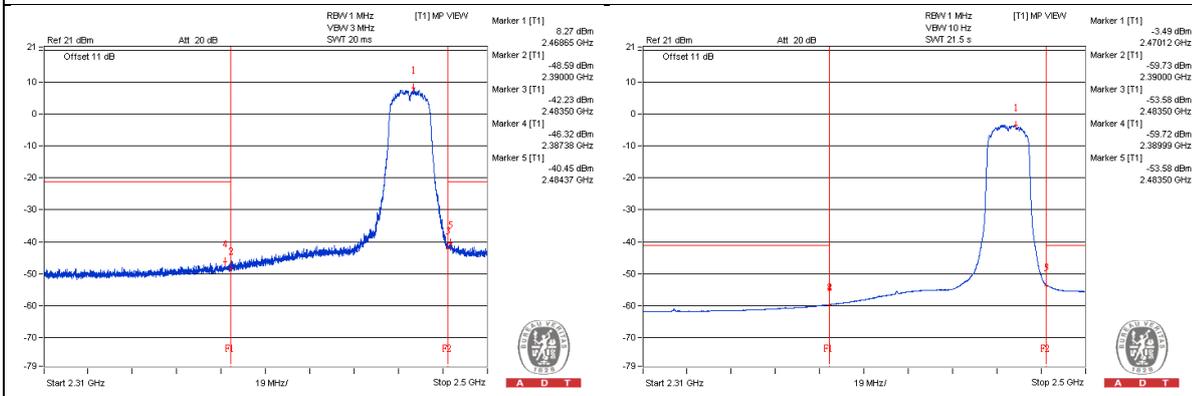
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT20 - Channel 13**Conducted spurious emission table**

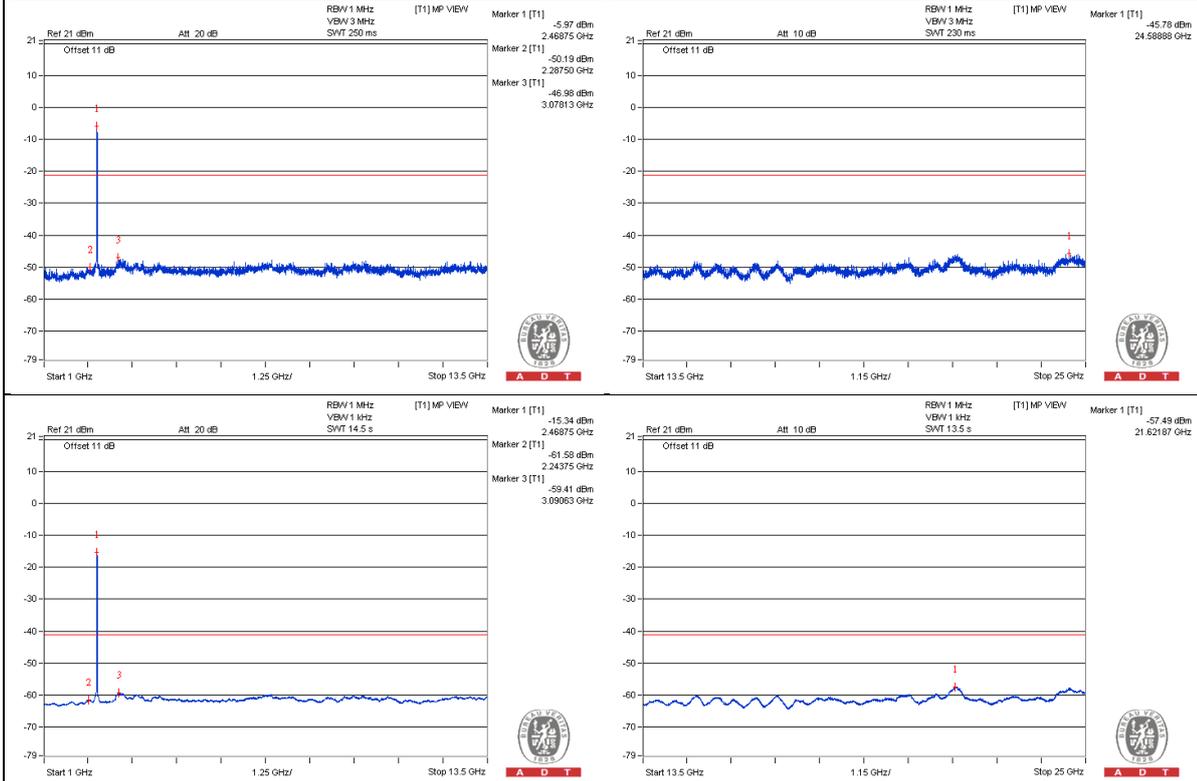
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4943.75 PK	53.46	74	-20.54	-50.94	-52.01	6.63	-41.8
2	4943.75 AV	43.23	54	-10.77	-61.66	-61.68	6.63	-52.03
3	7418.75 PK	55.97	74	-18.03	-47.92	-50.25	6.63	-39.29
4	7418.75 AV	44.84	54	-9.16	-59.91	-60.22	6.63	-50.42

Note :

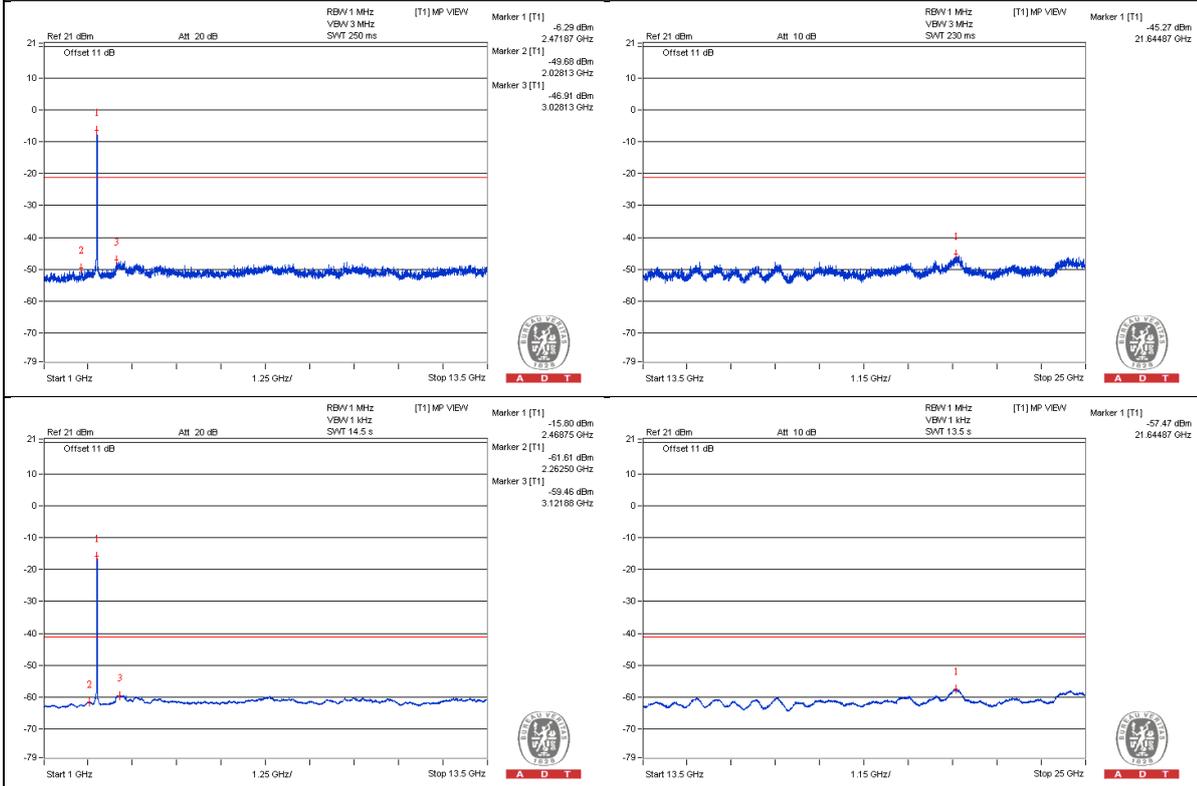
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

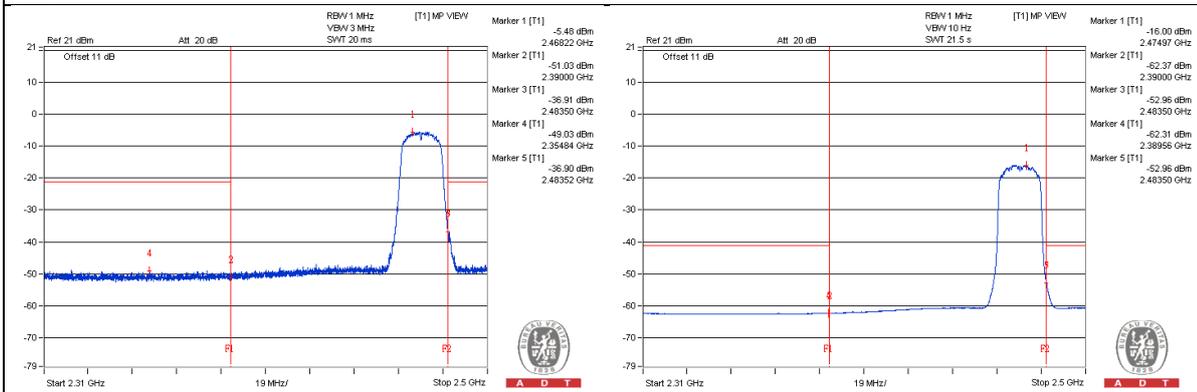
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2312.09 PK	55.46	74	-18.54	-49.26	-49.63	6.63	-39.8
2	2388.565 AV	42.57	54	-11.43	-62.33	-62.34	6.63	-52.69
3	2483.5175 PK	67.63	74	-6.37	-36.9	-37.67	6.63	-27.63
4	2483.5175 AV	51.75	54	-2.25	-53	-53.3	6.63	-43.51

Note :

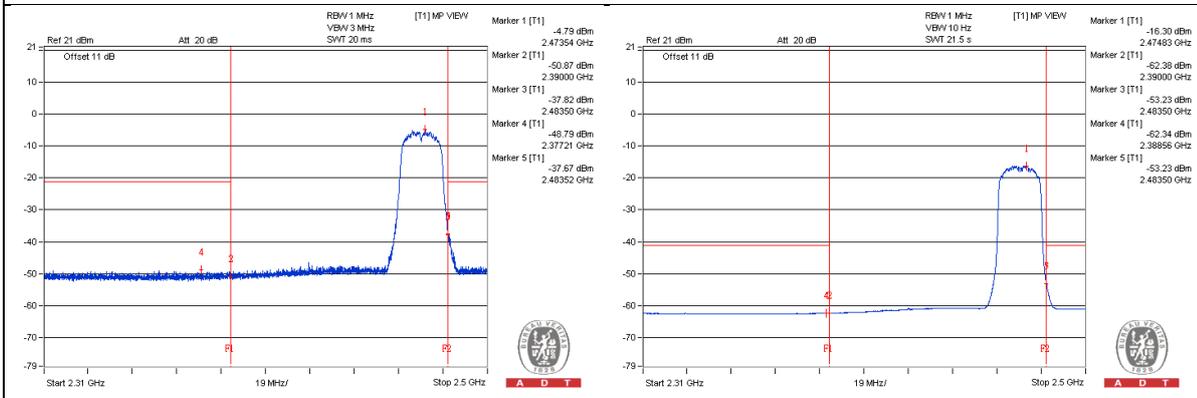
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT40 - Channel 3
Conducted spurious emission table

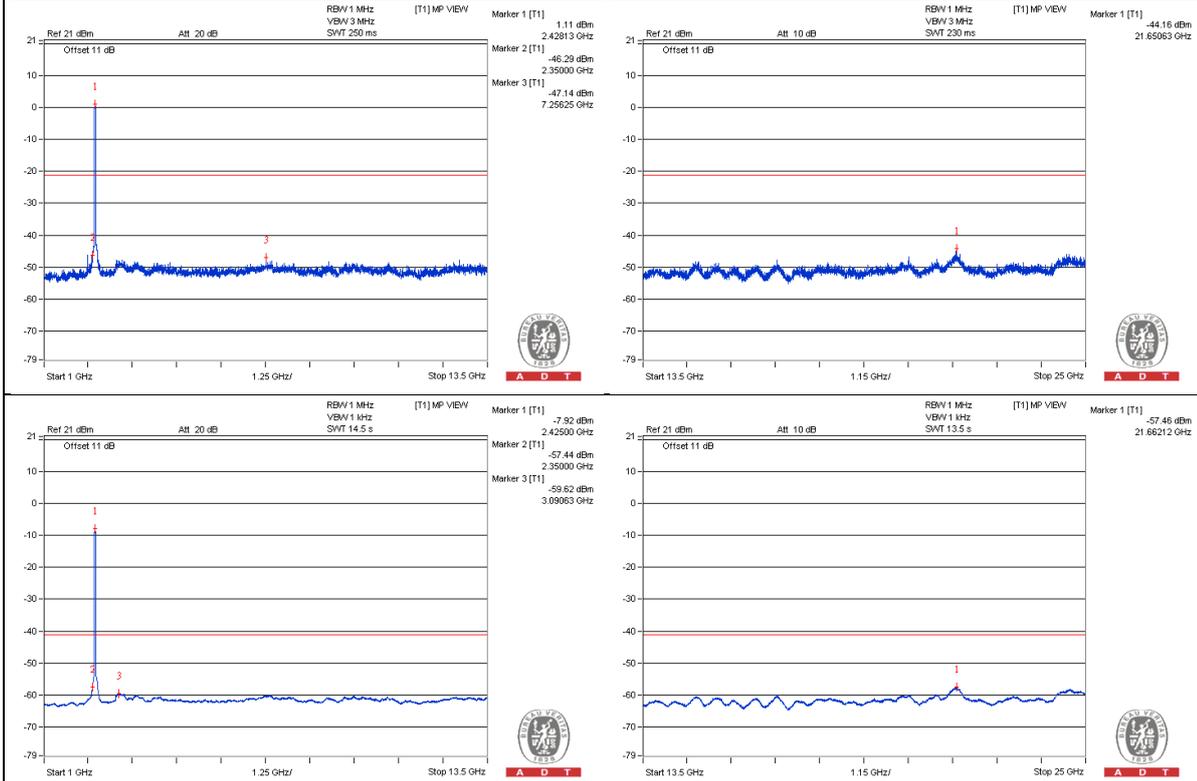
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1615.625 PK	51.7	74	-22.3	-53.26	-53.15	6.63	-43.56
2	1615.625 AV	41.73	54	-12.27	-63.11	-63.24	6.63	-53.53
3	4840.625 PK	54.35	74	-19.65	-51.78	-49.59	6.63	-40.91
4	4843.75 AV	43.34	54	-10.66	-61.33	-61.8	6.63	-51.92
5	7268.75 PK	56.04	74	-17.96	-48.66	-49.07	6.63	-39.22
6	7265.625 AV	44.49	54	-9.51	-60.36	-60.46	6.63	-50.77

Note :

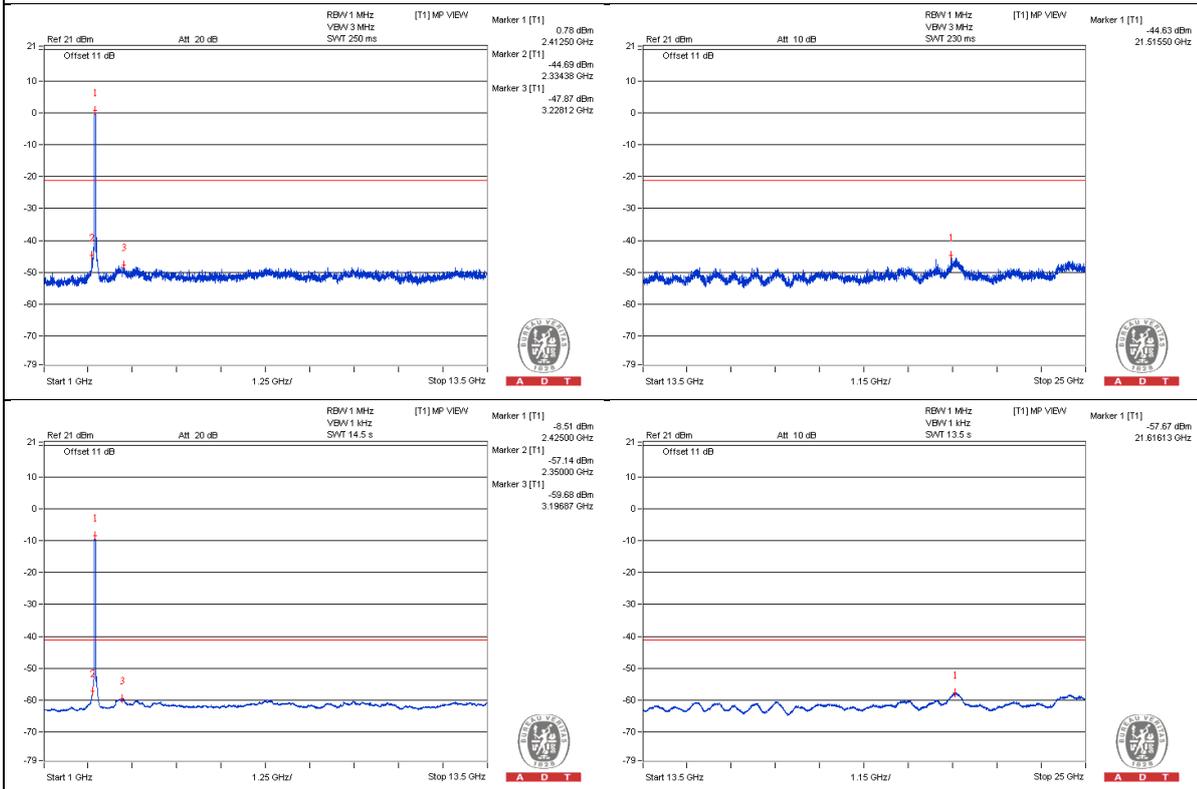
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

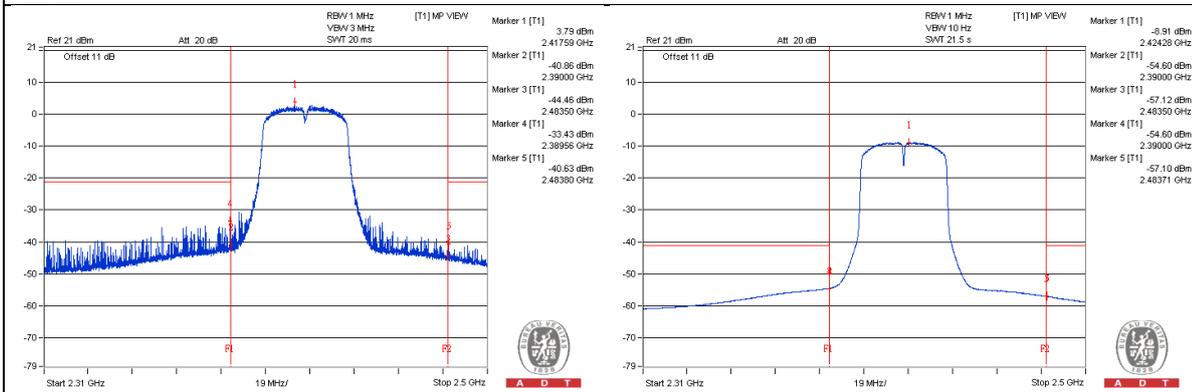
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2382.39 PK	69.25	74	-4.75	-44.11	-32.96	6.63	-26.01
2	2389.99 AV	50.62	54	-3.38	-54.6	-53.99	6.63	-44.64
3	2483.8025 PK	62.64	74	-11.36	-40.63	-44.91	6.63	-32.62
4	2483.6125 AV	47.71	54	-6.29	-57.11	-57.28	6.63	-47.55

Note :

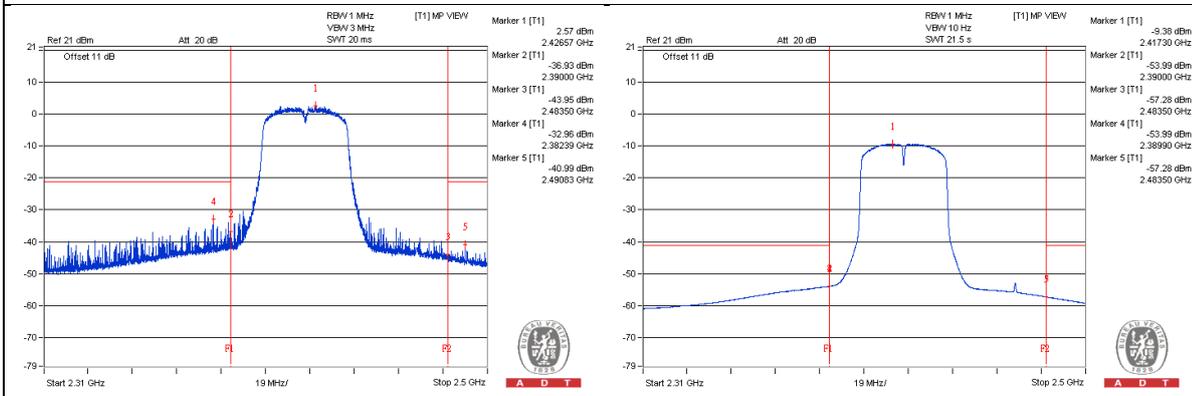
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT40 - Channel 6
Conducted spurious emission table

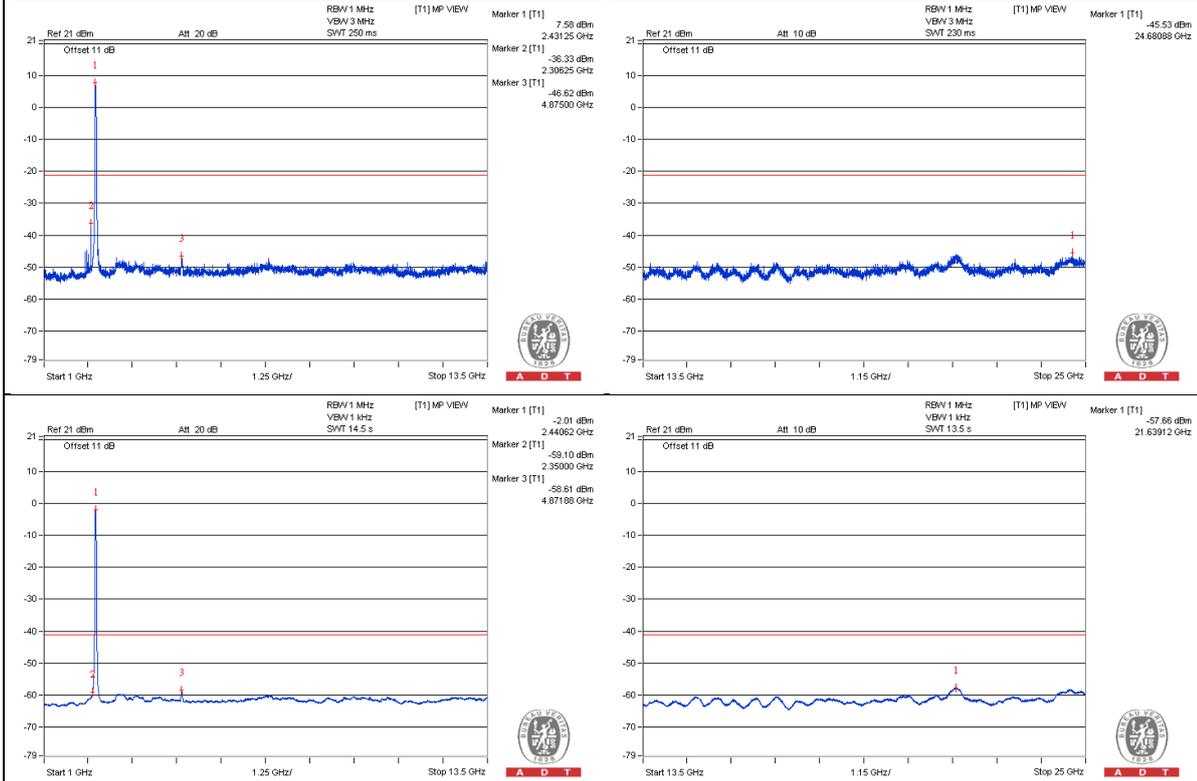
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	1625 PK	51.6	74	-22.4	-53	-53.63	6.63	-43.66
2	1625 AV	41.43	54	-12.57	-63.34	-63.6	6.63	-53.83
3	4875 PK	56.28	74	-17.72	-46.62	-52.44	6.63	-38.98
4	4871.875 AV	44.89	54	-9.11	-58.61	-62.1	6.63	-50.37
5	7306.25 PK	55.21	74	-18.79	-49.84	-49.55	6.63	-40.05
6	7315.625 AV	44.37	54	-9.63	-60.33	-60.75	6.63	-50.89

Note :

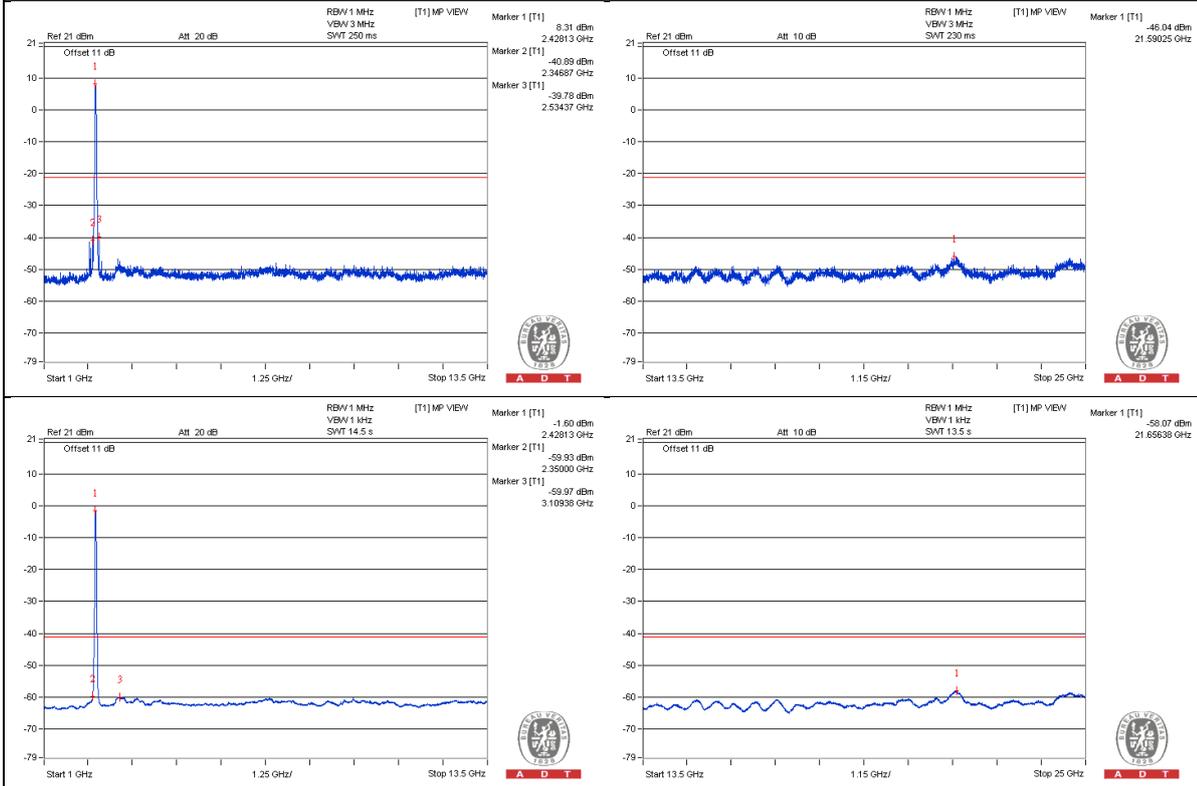
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.895 PK	74.85	74	* 0.85	-33.76	-28.08	6.63	-20.41
2	2389.9425 AV	58.92	54	* 4.92	-49.38	-44.1	6.63	-36.34
3	2484.515 PK	73.45	74	-0.55	-38.09	-28.94	6.63	-21.81
4	2483.5175 AV	58.21	54	* 4.21	-50.49	-44.7	6.63	-37.05

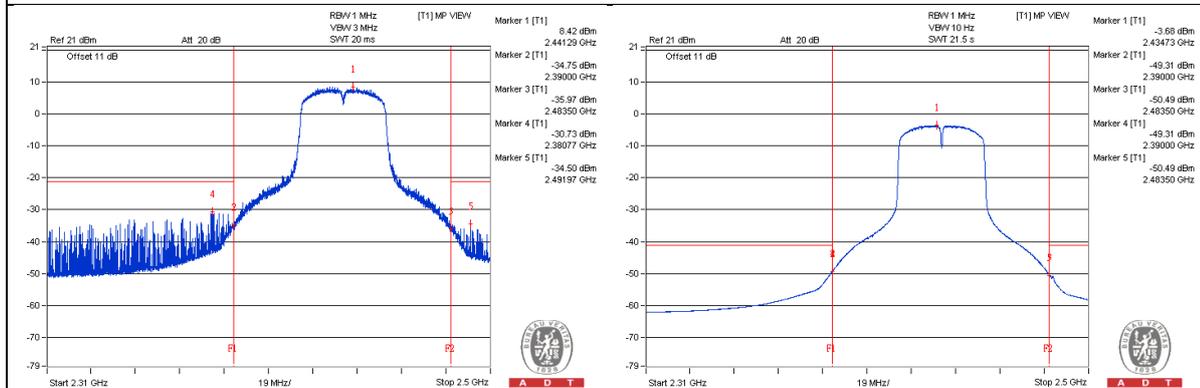
Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

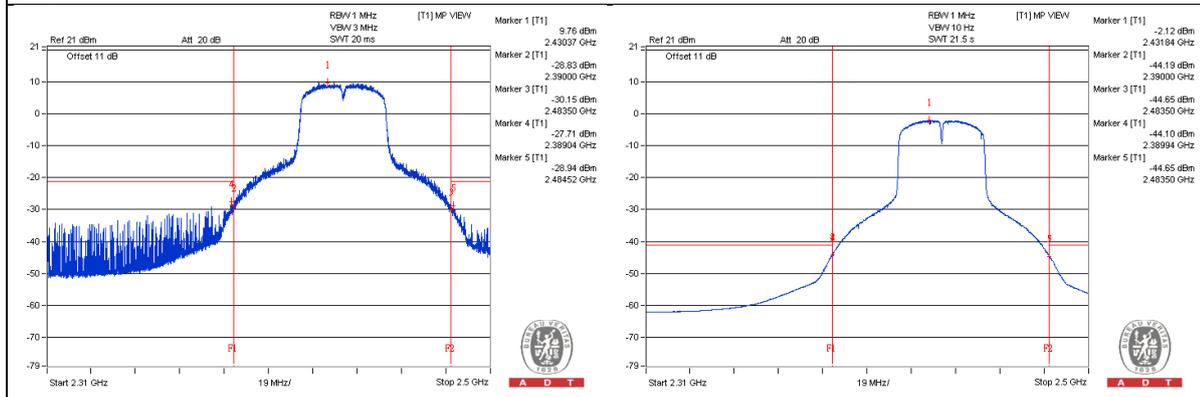
d = measurement distance in 3 meters.

* The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer APPENDIX A)

Chain 0



Chain 1



VHT40 - Channel 9
Conducted spurious emission table

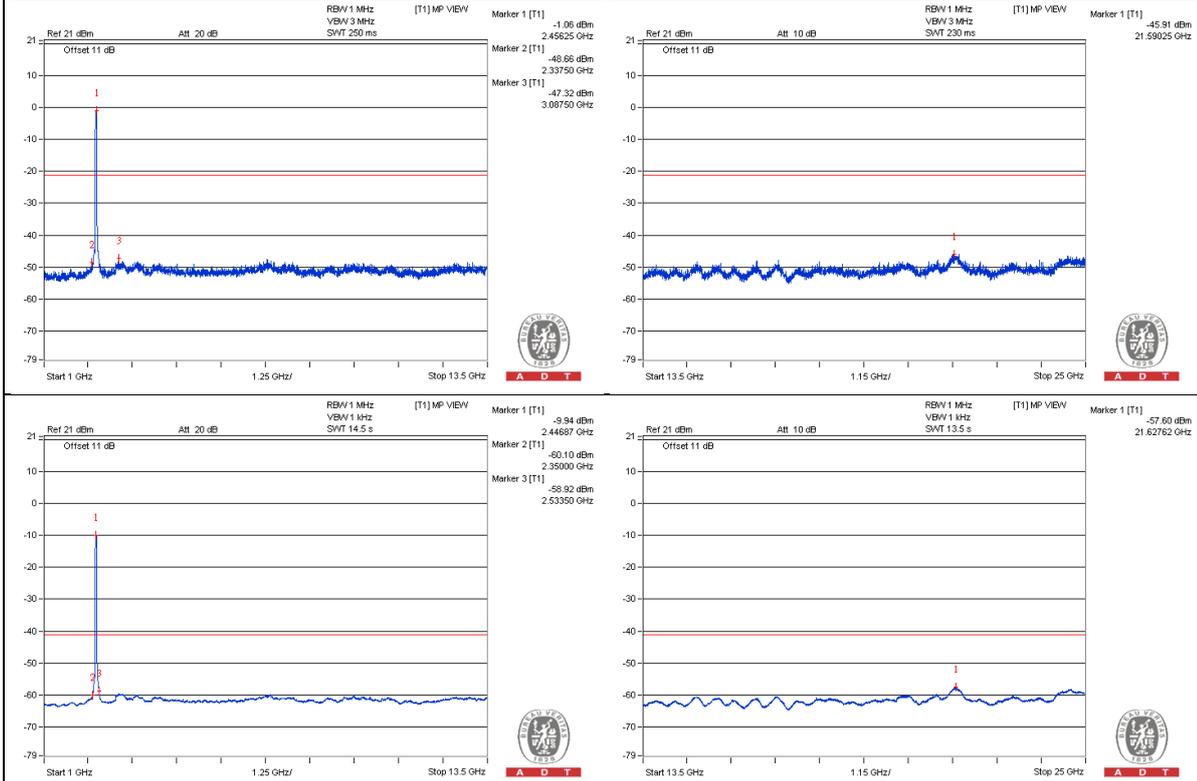
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4906.25 PK	53.81	74	-20.19	-51.47	-50.75	6.63	-41.45
2	4903.125 AV	43.11	54	-10.89	-61.45	-62.17	6.63	-52.15
3	7359.375 PK	55.36	74	-18.64	-50.02	-49.11	6.63	-39.9
4	7359.375 AV	44.72	54	-9.28	-60.02	-60.34	6.63	-50.54

Note :

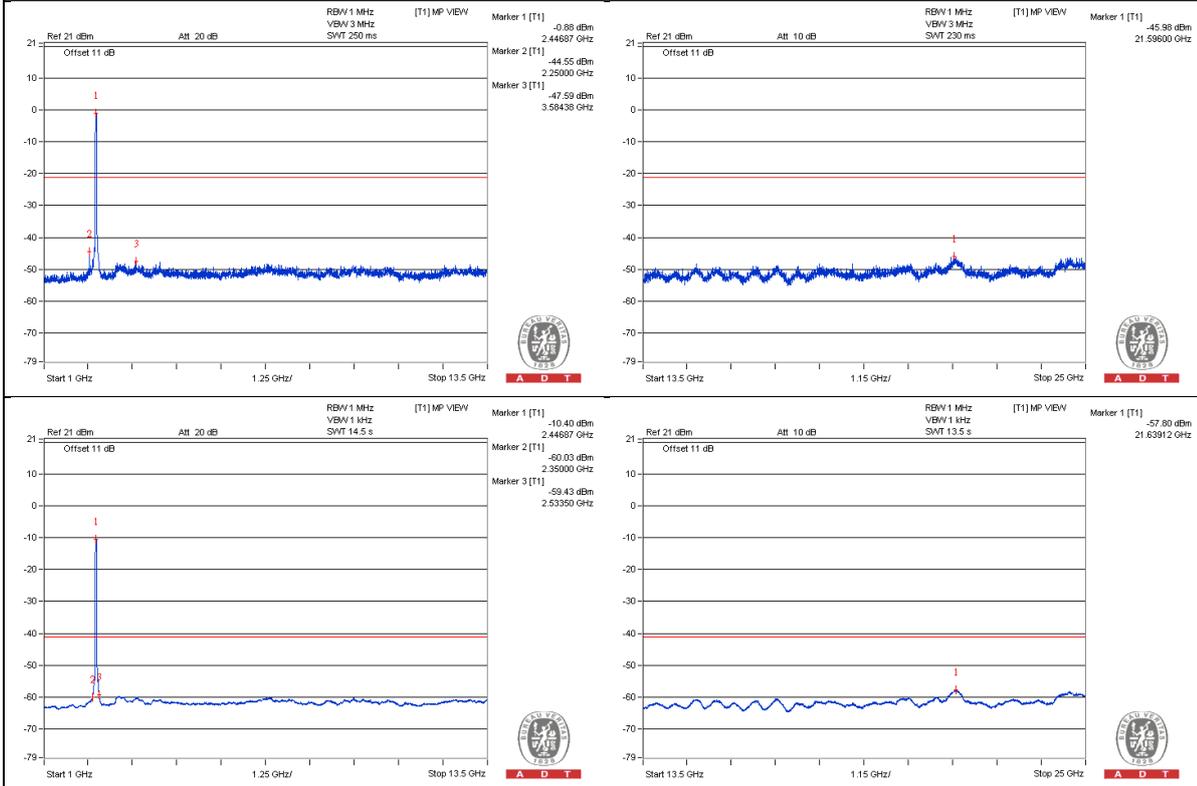
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

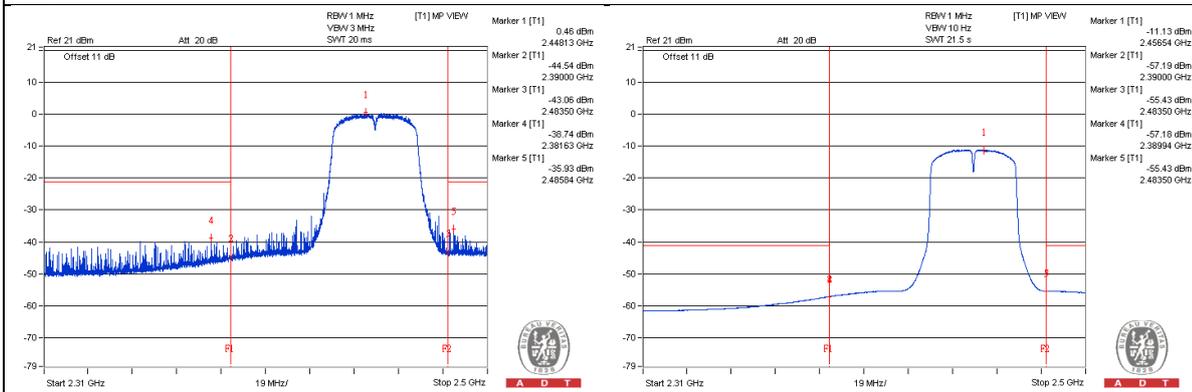
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2381.63 PK	63.85	74	-10.15	-38.74	-46.29	6.63	-31.41
2	2389.8 AV	47.87	54	-6.13	-57.2	-56.86	6.63	-47.39
3	2485.845 PK	67.34	74	-6.66	-35.93	-40.19	6.63	-27.92
4	2500 AV	50.49	54	-3.51	-55.97	-53.26	6.63	-44.77

Note :

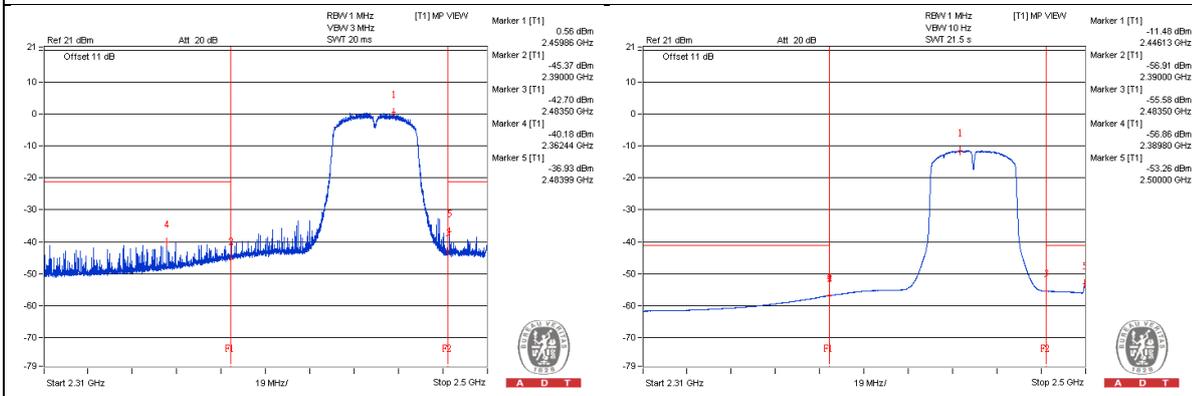
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT40 - Channel 10
Conducted spurious emission table

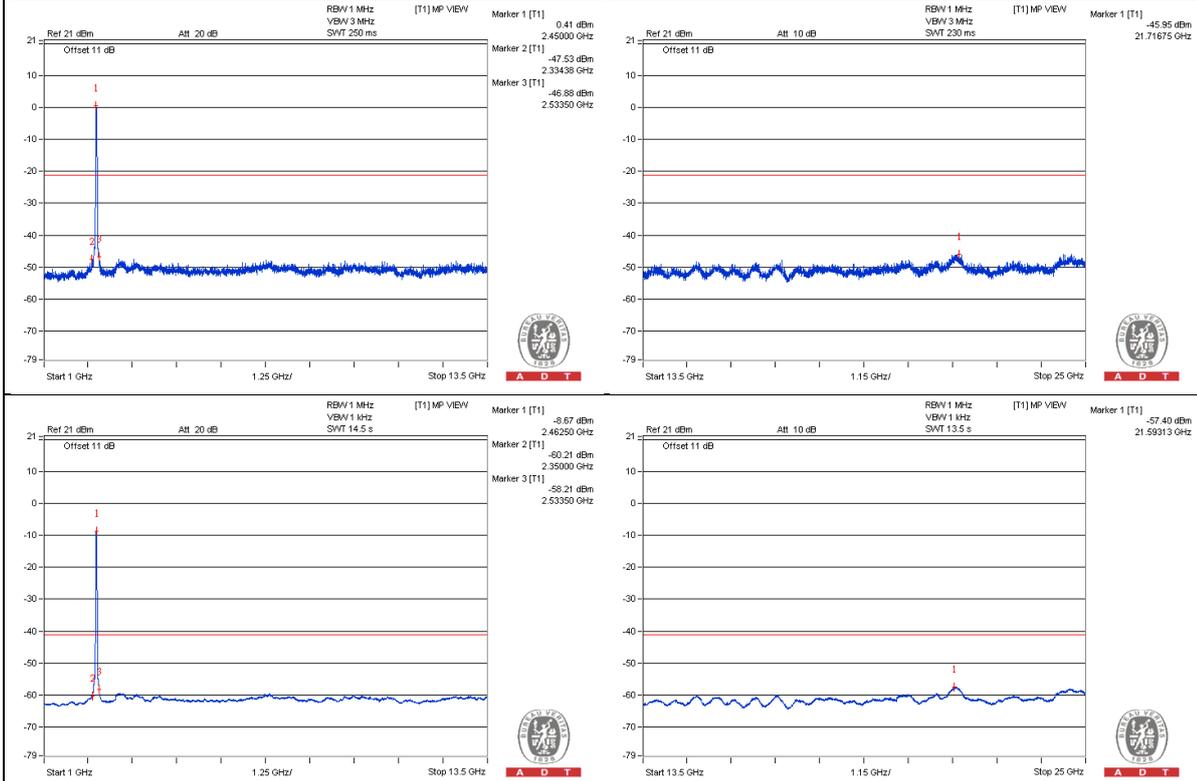
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4918.75 PK	53.96	74	-20.04	-50.35	-51.63	6.63	-41.3
2	4912.5 AV	43.46	54	-10.54	-61.27	-61.62	6.63	-51.8
3	7371.875 PK	55.9	74	-18.1	-48.76	-49.26	6.63	-39.36
4	7368.75 AV	44.94	54	-9.06	-59.98	-59.95	6.63	-50.32

Note :

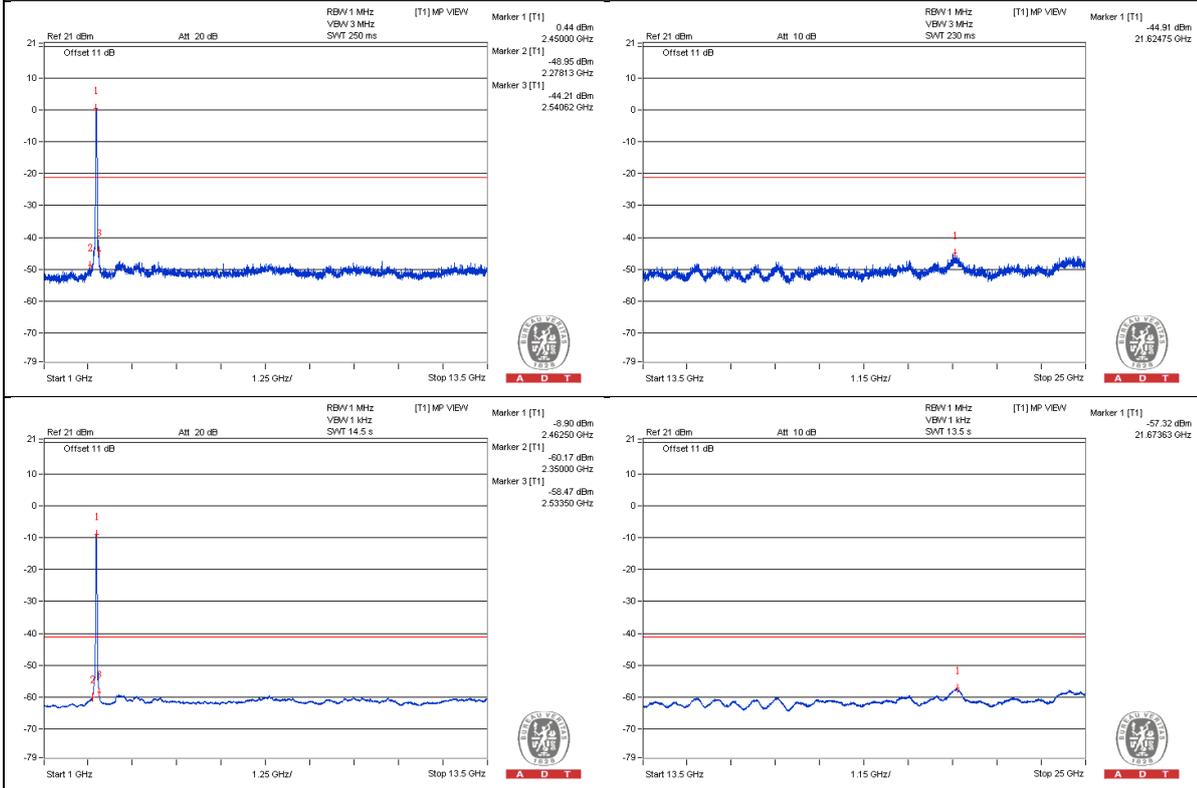
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

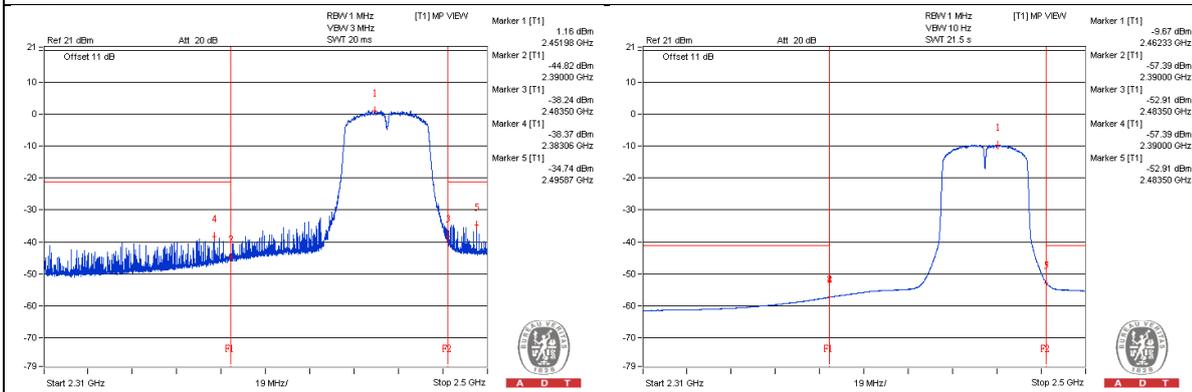
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2383.055 PK	64.38	74	-9.62	-38.37	-44.96	6.63	-30.88
2	2389.9425 AV	47.74	54	-6.26	-57.39	-56.95	6.63	-47.52
3	2484.6575 PK	70.53	74	-3.47	-40.91	-31.87	6.63	-24.73
4	2483.5175 AV	51.84	54	-2.16	-52.96	-53.16	6.63	-43.42

Note :

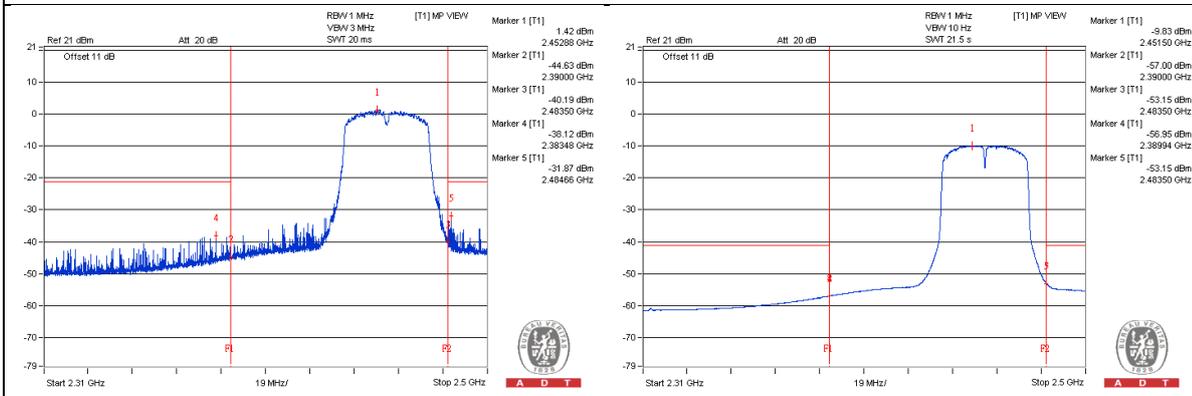
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain 0



Chain 1



VHT40 - Channel 11**Conducted spurious emission table**

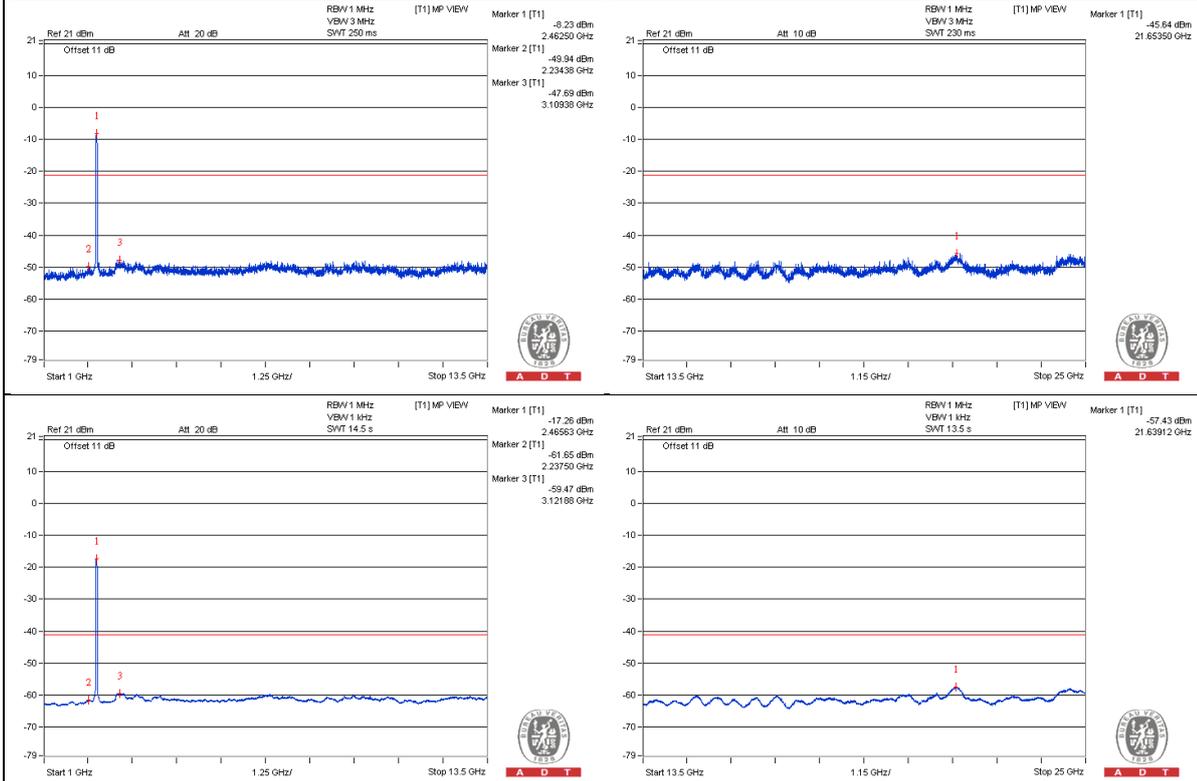
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4925 PK	54.47	74	-19.53	-49.87	-51.08	6.63	-40.79
2	4925 AV	43.04	54	-10.96	-61.69	-62.04	6.63	-52.22
3	7384.375 PK	55.51	74	-18.49	-49.92	-48.91	6.63	-39.75
4	7381.25 AV	44.78	54	-9.22	-60.16	-60.09	6.63	-50.48

Note :

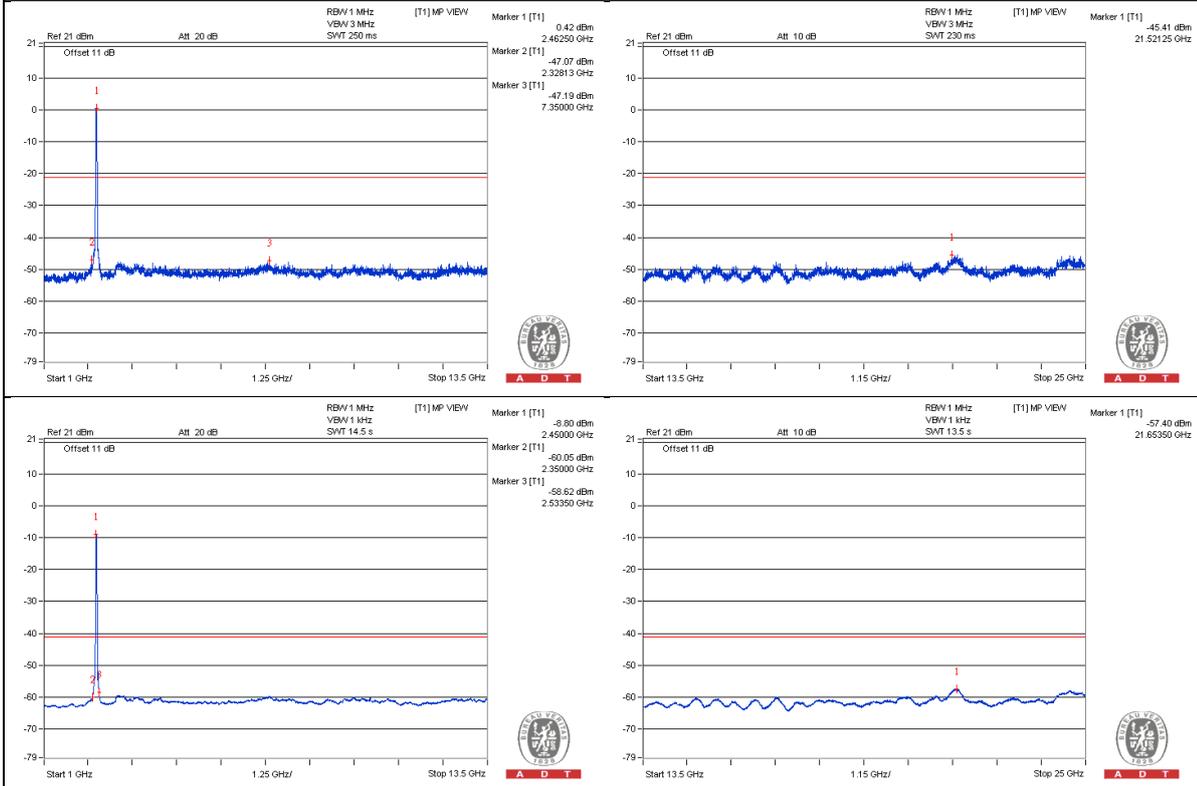
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

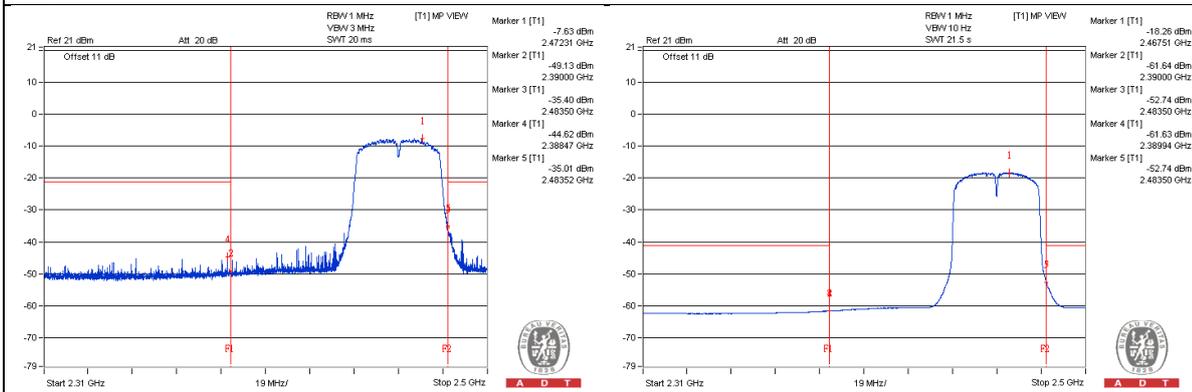
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2387.9475 PK	63.79	74	-10.21	-50.05	-38.39	6.63	-31.47
2	2389.99 AV	46.13	54	-7.87	-61.64	-57.06	6.63	-49.13
3	2485.085 PK	68.77	74	-5.23	-40.16	-34.08	6.63	-26.49
4	2483.5175 AV	51.96	54	-2.04	-52.8	-53.09	6.63	-43.3

Note :

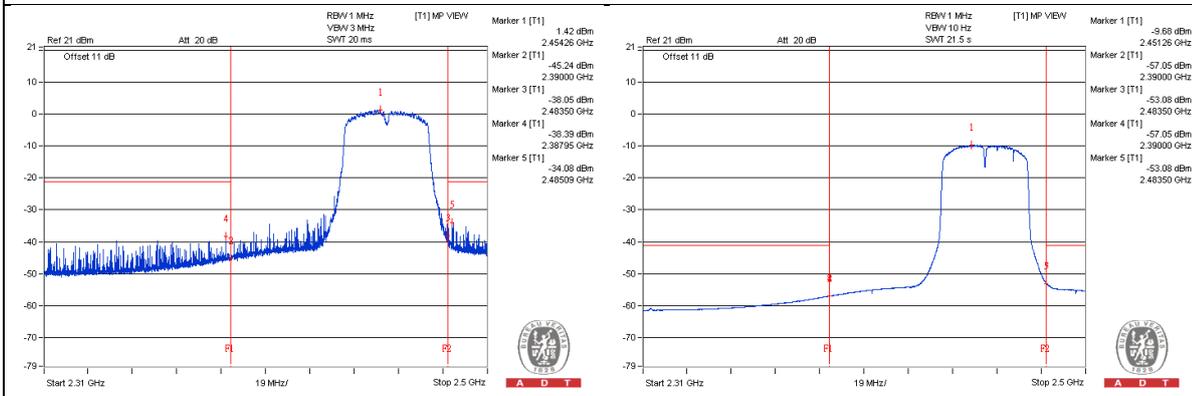
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Below 1GHz Data
802.11g - Channel 6

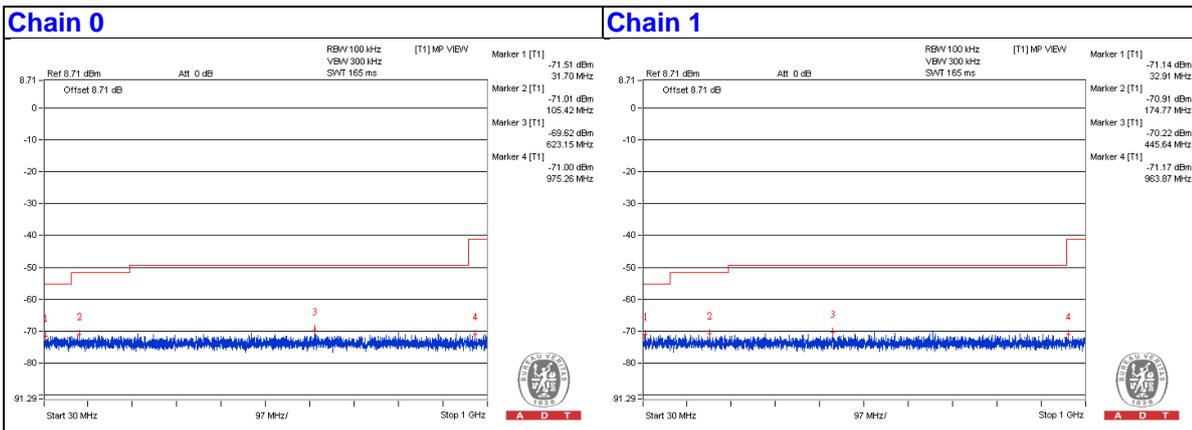
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	65.405	33.11	40	-6.89	-72.32	-71.31	6.63	-62.15
2	208.7225	32.93	43.5	-10.57	-72.8	-71.28	6.63	-62.33
3	296.5075	33.39	46	-12.61	-72.37	-70.8	6.63	-61.87
4	482.99	33.28	46	-12.72	-70.53	-73.09	6.63	-61.98
5	623.155	33.75	46	-12.25	-69.62	-73.53	6.63	-61.51
6	856.925	33.33	46	-12.67	-72.53	-70.79	6.63	-61.93

Note :

$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.



4.6 Conducted Emission Measurement

4.6.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.6.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS 30	100375	Apr. 29, 2014	Apr. 28, 2015
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK-8127	8127-522	Sep. 15, 2014	Sep. 14, 2015
Line-Impedance Stabilization Network (for Peripheral) ROHDE & SCHWARZ	ENV216	100071	Nov. 10, 2014	Nov. 09, 2015
RF Cable (JYEBAO)	5DFB	COCCAB-001	Mar. 10, 2014	Mar. 09, 2015
50 ohms Terminator	N/A	EMC-03	Sep. 22, 2014	Sep. 21, 2015
50 ohms Terminator	N/A	EMC-02	Sep. 30, 2014	Sep. 29, 2015
Software ADT	BV ADT_Cond_V7.3.7. 3	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: Feb. 17, 2015

4.6.3 Test Procedures

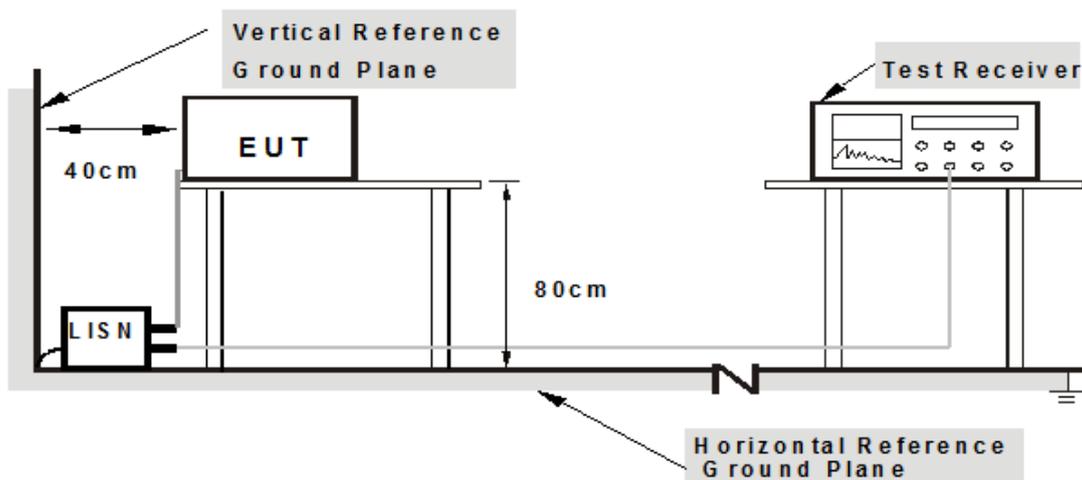
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.6.4 Deviation from Test Standard

No deviation.

4.6.5 Test Setup



Note: 1. Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.6.6 EUT Operating Conditions

Same as 4.5.6.

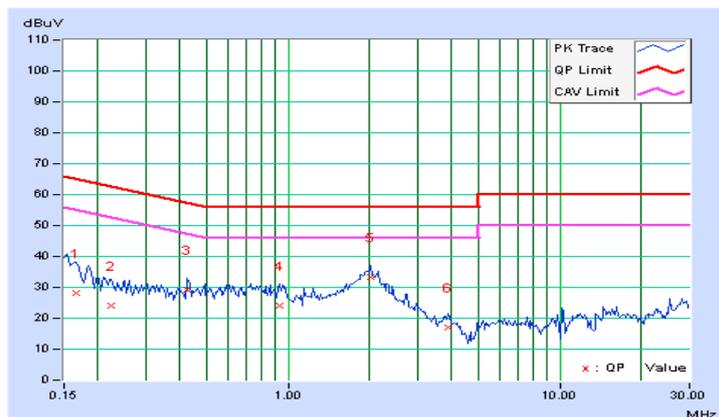
4.6.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.07	27.92	22.48	27.99	22.55	65.18	55.18	-37.19	-32.63
2	0.22422	0.07	24.06	20.93	24.13	21.00	62.66	52.66	-38.53	-31.66
3	0.42734	0.09	29.13	25.55	29.22	25.64	57.30	47.30	-28.08	-21.66
4	0.92734	0.13	24.12	22.07	24.25	22.20	56.00	46.00	-31.75	-23.80
5	2.01953	0.18	33.24	29.82	33.42	30.00	56.00	46.00	-22.58	-16.00
6	3.86328	0.25	16.79	12.43	17.04	12.68	56.00	46.00	-38.96	-33.32

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

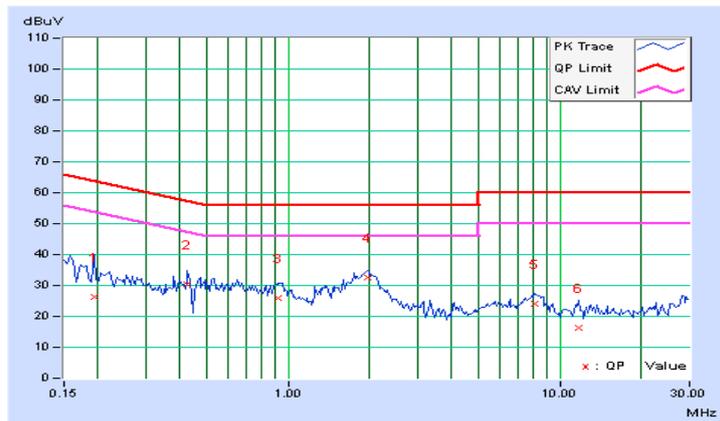


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBUV)		Emission Level (dBUV)		Limit (dBUV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19297	0.06	26.38	22.06	26.44	22.12	63.91	53.91	-37.47	-31.79
2	0.42734	0.09	30.35	25.65	30.44	25.74	57.30	47.30	-26.86	-21.56
3	0.91563	0.12	25.86	21.72	25.98	21.84	56.00	46.00	-30.02	-24.16
4	1.95703	0.18	32.49	29.52	32.67	29.70	56.00	46.00	-23.33	-16.30
5	8.10156	0.40	23.74	20.51	24.14	20.91	60.00	50.00	-35.86	-29.09
6	11.74609	0.51	15.91	10.67	16.42	11.18	60.00	50.00	-43.58	-38.82

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

6 Appendix A – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

7 Appendix B – Radiated Emission Measurement

7.1.1 Limits of Radiated Emission Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

7.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY50010156	Aug. 11, 2014	Aug. 10, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 12, 2014	Nov. 11, 2015
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Feb. 27, 2014	Feb. 26, 2015
RF Cable	NA	CHHCAB_001	Oct. 05, 2014	Oct. 04, 2015
Horn_Antenna AISI	AIH.8018	0000220091110	Aug. 26, 2014	Aug. 25, 2015
Pre-Amplifier Agilent	8449B	300801923	Oct. 28, 2014	Oct. 27, 2015
RF Cable	NA	131206 131215 SNMY23685/4	Jan. 16, 2015	Jan. 15, 2016
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Pre-Amplifier EMCI	EMC184045	980143	Jan. 16, 2015	Jan. 15, 2016
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Aug. 26, 2014	Aug. 25, 2015
RF Cable	NA	RF104-121 RF104-204	Dec. 11, 2014	Dec. 10, 2015
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: Feb. 16, 2015

7.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

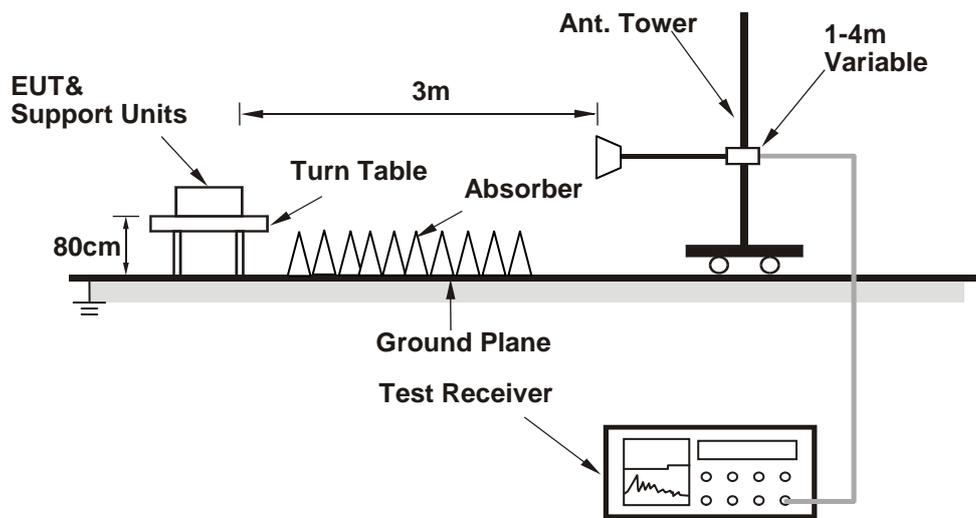
NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

7.1.4 Deviation from Test Standard

No deviation

7.1.5 Test Setup



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.1.6 EUT Operating Conditions

Same as 4.5.6.

7.1.7 Test Results

The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

VHT40

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2389.99	65.3 PK	74.0	-8.7	1.02 H	78	67.79	-2.49
2	2389.99	46.3 AV	54.0	-7.7	1.02 H	78	48.79	-2.49
3	2483.50	65.8 PK	74.0	-8.2	1.00 H	130	67.98	-2.18
4	2483.50	47.4 AV	54.0	-6.6	1.00 H	130	49.58	-2.18

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2389.99	62.5 PK	74.0	-11.5	1.10 V	173	64.99	-2.49
2	2389.99	43.2 AV	54.0	-10.8	1.10 V	173	45.69	-2.49
3	2483.50	61.2 PK	74.0	-12.8	1.33 V	122	63.38	-2.18
4	2483.50	45.5 AV	54.0	-8.5	1.33 V	122	47.68	-2.18

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value

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