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FCC TEST REPORT (15.407)

REPORT NO.: RF980406H01B-1

MODEL NO.: AP-7131N

RECEIVED: Sep. 18, 2009

TESTED: Sep. 18 to 28, 2009

ISSUED: Oct. 06, 2009

APPLICANT: Motorola Inc.

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1. CERTIFICATION

PRODUCT: 11n Access-Point
BRAND NAME: Motorola
MODEL NO.: AP-7131N
TEST SAMPLE: R&D SAMPLE
TESTED: Sep. 18 to 28, 2009
APPLICANT: Motorola Inc.
STANDARDS: FCC Part 15, Subpart E (Section 15.407),
ANSI C63.4-2003

The above equipment (Model: AP-7131N) 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 : Midoli Peng , **DATE:** Oct. 06, 2009
(Midoli Peng, Specialist)

TECHNICAL ACCEPTANCE : Hank Chung , **DATE:** Oct. 06, 2009
Responsible for RF (Hank Chung, Deputy Manager)

APPROVED BY : May Chen , **DATE:** Oct. 06, 2009
(May Chen, Deputy Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

[For 802.11a](#)

APPLIED STANDARD: FCC Part 15, Subpart E (Section 15.407)			
Standard Section	Test Type	Result	Remark
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -13.46dB at 3.984MHz
15.407(b/1/2/3) (b)(5)	Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz	PASS	Meet the requirement of limit. Minimum passing margin is -0.50dB at 5725.00MHz
15.407(a/1/2/3)	Peak Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a/1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.



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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:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions	2.44 dB
Radiated emissions (30MHz-1GHz)	3.94 dB
Radiated emissions (1GHz -18GHz)	2.49 dB
Radiated emissions (18GHz -40GHz)	2.70 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	11n Access-Point
MODEL NO.	AP-7131N
FCC ID	UZ7AP7131N
POWER SUPPLY	DC 48V from Power Adapter or DC 55V from POE
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11 / 5.5 / 2 / 1Mbps 802.11g: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6Mbps 802.11a: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6Mbps Draft 802.11n (20MHz) (400ns GI): 144.4 / 130 / 115.6 / 86.7 / 72.2 / 65 / 57.8 / 43.3 / 28.9 / 21.7 / 14.4 / 7.2Mbps Draft 802.11n (40MHz) (400ns GI): 300 / 270 / 240 / 180 / 150 / 135 / 120 / 90 / 60 / 45 / 30 / 15Mbps Draft 802.11n (20MHz) (800ns GI): 130 / 117 / 104 / 78 / 65 / 58.5 / 52 / 39 / 26 / 19.5 / 13 / 6.5Mbps. Draft 802.11n (40MHz) (400ns GI): 270 / 243 / 216 / 162 / 135 / 121.5 / 108 / 81 / 54 / 40.5 / 27 / 13.5Mbps.
FREQUENCY RANGE	For 15.407 802.11a: 5.18 ~ 5.32GHz, 5.50 ~ 5.70GHz For 15.247 802.11b & 802.11g: 2412 ~ 2462MHz 802.11a: 5.745 ~ 5.825GHz
NUMBER OF CHANNEL	For 15.407 19 for 802.11a, draft 802.11n (20MHz) 9 for draft 802.11n (40MHz) For 15.247(2.4GHz) 11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz) For 15.247(5GHz) 5 for 802.11a, draft 802.11n (20MHz) 2 for draft 802.11n (40MHz)



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MAXIMUM OUTPUT POWER	Please see note 3
ANTENNA TYPE	Please see note 2
DATA CABLE	NA
I/O PORTS	RJ-45 port * 1 < Ethernet (10,100,1000Mbps) > RJ-45 port * 1 < POE / Ethernet (10,100, 1000Mbps) > RJ-45 port * 1 < Console >
ASSOCIATED DEVICES	Adapter x1 ; POE x1

NOTE:

1. This report is prepared for FCC class II permissive change. The difference compared with the Report No.: RF980406H01A design is as the following:

- u Add DFS band <5250~5350MHz & 5470~5725MHz>

2. There are twelve antennas provided to this EUT, please refer to the following table:

No	Brand	Model	Antenna Type	Connector Type (External only)	Frequency range (MHz)	Indoor or Outdoor
1	Symbol	ML-2499-BYGA2-01R	YAGI	Type N-Female	2400~2500	Indoor
2	Symbol	ML-2499-11PNA2-01R	Panel	RP-BNC-Female	2400~2500	Indoor
3	Symbol	ML-2452-APA2-01	Dipole	RP-SMA MALE	2400-2500, 5150-5850	Indoor
4	Motolora	ML-2452-PTA2M3X3-1	Embedded	RP-SMA-Male	2400-2500, 4900-5990	Indoor
5	Symbol	ML-5299-WPNA1-01R	Panel	RP-SMA-Female	5150-5875	Indoor
6	Symbol	ML-2499-HPA3-01R	Dipole	RP-BNC FEMALE	2400-2500	Indoor
7	Symbol	ML-5299-HPA1-01R	Dipole	RP-SMA FEMALE	5150-5875	Indoor
8	Motolora	ML-2452-PTA3M3-036	Patch	RP-SMA-Male	2400-2500, 4900-5990	Indoor
9	WHA YU	ML-2452-APA6J-01	Dipole	SMA Plug Reverse	2400-2500, 4900-5990	Indoor
10	Motolora	ML-2452-PNL9M3-036	Panel	Reverse SMA	2400-2500, 5150-5875	Indoor
11	Motolora	ML-5299-BYGA15-012	YAGI	Type N Female connector	4900-5800	Indoor
12	WHA YU	M25.90002.S01	Dipole	I-PEX	2400-2500, 5150-5850	Indoor
No	Brand	Model	Gain (dBi)	Cable Loss(dB) (External only, if any)	Net Gain (dB)	Cable Length (External only, if any)
1	Symbol	ML-2499-BYGA2-01R	14.2	0.3	13.9	12 inch
2	Symbol	ML-2499-11PNA2-01R	11.2	2.7	8.5	96 inch



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3	Symbol	ML-2452-APA2-01	3 / 4	N/A	3 / 4	N/A
4	Motolora	ML-2452-PTA2M3X3-1	1 / 2	N/A	1 / 2	N/A
5	Symbol	ML-5299-WPNA1-01R	14.2	1.2	13	36 inch
6	Symbol	ML-2499-HPA3-01R	4.6	1.3	3.3	48 inch
7	Symbol	ML-5299-HPA1-01R	5.9	0.84	5.06	36 inch
8	Motolora	ML-2452-PTA3M3-036	6/7	0.92 / 1.97	5.08 / 5.03	36 inch
9	WHA YU	ML-2452-APA6J-01	-6 / -6	N/A	2.4GHz Peak gain : -5.76dBi 5GHz Peak gain : band 1: -3.77dBi band 2: -3.38dBi band 3: -2.84dBi band 4: -2.94dBi	N/A
10	Motolora	ML-2452-PNL9M3-036	8 / 10.7	N/A	8 / 10.7	36 inch
11	Motolora	ML-5299-BYGA15-012	14.5	N/A	14.5	3 ft
12	WHA YU	M25.90002.S01	3.03 / 4.06	N/A	3.03 / 4.06	63mm

Note :

1. For Radio card 1: The antennas 1~4, 6 & 8-10 will be use, therefore antenna 1, 2, 4, 6, 8, were chosen for final test.
2. For Radio card 2: The antennas 3~5 & 7-11 will be use, therefore antenna 4, 5, 7, 8, 11, were chosen for final test.
3. For Radio card 3: The antenna 12 will be use only, therefore antenna 12 was chosen for final test.



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3. The maximum output power (Unit : mW) :

No.	Model No.	Operating Frequency (MHz)		
		5260 ~ 5320 MHz		
		802.11a	draft 802.11n (20MHz)	draft 802.11n (40MHz)
4	ML-2452-PTA2M3X3-1	45.447	44.902	41.744
5	ML-5299-WPNA1-01R	27.655	30.594	41.392
7	ML-5299-HPA1-01R	45.447	44.902	41.744
8	ML-2452-PTA3M3-036	45.447	44.902	41.744
11	ML-5299-BYGA15-012	23.218	22.298	30.723
12	M25.90002.S01	43.954	NA	NA

No.	Model No.	Operating Frequency (MHz)		
		5500 ~ 5700 MHz		
		802.11a	draft 802.11n (20MHz)	draft 802.11n (40MHz)
4	ML-2452-PTA2M3X3-1	43.097	43.755	43.707
5	ML-5299-WPNA1-01R	28.839	31.141	43.707
7	ML-5299-HPA1-01R	43.097	43.755	43.707
8	ML-2452-PTA3M3-036	43.097	43.755	43.707
11	ML-5299-BYGA15-012	22.165	22.979	33.519
12	M25.90002.S01	43.853	NA	NA

4. The EUT must be supplied with a power adapter or POE as below :

Adapter		
Brand	Model No.	Spec.
MOTOROLA	50-14000-247R	AC Input : 100-240V, 1A, 50-60Hz DC Output : 48V, 0.75A DC output cable : 1.9m, unshielded with one core

POE		
Brand	Model No.	Spec.
MOTOROLA	AP-PSBIAS-1P3-AFR	AC Input : 100-240V, 0.8A, 50 / 60Hz DC Output : 55V, 0.57A

5. The EUT has three radio cards inside the device.

Radio 1 operates all the time, with 3Tx MIMO, at 2.4 GHz.

Radio 2 operates all the time, with 3Tx MIMO at 5 GHz.

Radio 3 does not operate in 11n mode. In the 2.4GHz band, the radio 3 only transmits at 1Mbps which is 802.11b DSSS rate. In the 5GHz band, the radio 3 only transmits in 6Mbps which is 802.11a OFDM rate.

6. During normal operation, only radio 1 and 2 will transmit data, radio 3 will work as a sensor radio. Radio 3 is mostly Rx-only, though it does also transmit a low duty cycle signal at 2.4 GHz and 5 GHz. The radio 1 or radio 2 will transmit simultaneously with radio 3 when radio 3 detects signals.
7. Radio 1 and radio 2 will reduce 1dB automatically from maximum power when radio 3 detect signals and transmit signals.
8. The EUT incorporates CDD function with 802.11a, 802.11b, 802.11g and MIMO function with draft 802.11n.
9. The radio 1 and radio 2 are 3 * 3 spatial MIMO (3Tx & 3Rx) without beam forming function. The antenna configurations are three transmitter antennas and three receiver antennas. Spatial multiplexing modes for simultaneous transmission using 3 antennas, and for simultaneous receiver using 3 antennas.
10. 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 TEST MODES

Operated in 5250MHz ~ 5350MHz bands:

Four channels are provided for 802.11a and draft 802.11n (20MHz):

CHANNEL	FREQUENCY
5	5260 MHz
6	5280 MHz
7	5300 MHz
8	5320 MHz

Two channels are provided for draft 802.11n (40MHz):

CHANNEL	FREQUENCY
3	5270 MHz
4	5310 MHz

Operated in 5470MHz ~ 5725MHz bands:

Eleven channels are provided for 802.11a and draft 802.11n (20MHz):

CHANNEL	FREQUENCY
9	5500 MHz
10	5520 MHz
11	5540 MHz
12	5560 MHz
13	5580 MHz
14	5600 MHz
15	5620 MHz
16	5640 MHz
17	5660 MHz
18	5680 MHz
19	5700 MHz

Five channels are provided for draft 802.11n (40MHz):

CHANNEL	FREQUENCY
5	5510 MHz
6	5550 MHz
7	5590 MHz
8	5630 MHz
9	5670 MHz



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3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

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

Where PLC: Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ≥ 1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

ANTENNA COMBINATION MODE:

COMBINATION MODE	OPERATION MODE	TX CHAIN(0)	TX CHAIN(1)	TX CHAIN(2)
A	802.11 a	√		
B	802.11 a	√		√
C	802.11 a	√	√	√
D	DRAFT 802.11n(20MHz) for MCS0~7	√		
E	DRAFT 802.11n(20MHz) for MCS0~7	√		√
F	DRAFT 802.11n(20MHz) for MCS0~7	√	√	√
G	DRAFT 802.11n(20MHz) for MCS8~15	√		
H	DRAFT 802.11n(20MHz) for MCS8~15	√		√
I	DRAFT 802.11n(20MHz) for MCS8~15	√	√	√
J	DRAFT 802.11n(40MHz) for MCS0~7	√		
K	DRAFT 802.11n(40MHz) for MCS0~7	√		√
L	DRAFT 802.11n(40MHz) for MCS0~7	√	√	√
M	DRAFT 802.11n(40MHz) for MCS8~15	√		
N	DRAFT 802.11n(40MHz) for MCS8~15	√		√
O	DRAFT 802.11n(40MHz) for MCS8~15	√	√	√

Note:

1. The above information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.
2. Mode A (Radio card 3) the worst mode, was selected as representative mode for the report.
3. Mode C, F, L (Radio card 2) the worst modes, were selected as representative mode for the report.

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	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	5 to 19	8	OFDM	BPSK	6	A
For 5 GHz Draft 802.11n (40MHz)	3 to 9	7	OFDM	BPSK	6	C

- The EUT was Pre-tested as the following test modes:

Test Mode	Description
Mode 1	With Adapter
Mode 2	With POE

Mode 2, the worse case one, was chosen for final test.

RADIATED EMISSION TEST (BELOW 1 GHz):

- 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	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	5 to 19	8	OFDM	BPSK	6	A
For 5 GHz Draft 802.11n (40MHz)	3 to 9	7	OFDM	BPSK	6	C

- The EUT was Pre-tested as the following test modes:

Test Mode	Description
Mode 1	With Adapter
Mode 2	With POE

Mode 2, the worse case one, was chosen for final test.



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RADIATED EMISSION TEST (ABOVE 1 GHz):

- 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	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	5 to 19	5, 7, 8, 9, 14, 19	OFDM	BPSK	6	A
802.11a	5 to 19	5, 7, 8, 9, 14, 19	OFDM	BPSK	6	C
For 5 GHz Draft 802.11n (20MHz)	5 to 19	5, 7, 8, 9, 14, 19	OFDM	BPSK	6.5	F
For 5 GHz Draft 802.11n (40MHz)	3 to 9	3, 4, 5, 7, 9	OFDM	BPSK	13.5	L

BANDEDGE MEASUREMENT:

- 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	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	5 to 19	5, 8, 9, 19	OFDM	BPSK	6	A
802.11a	5 to 19	5, 8, 9, 19	OFDM	BPSK	6	C
For 5 GHz Draft 802.11n (20MHz)	5 to 19	5, 8, 9, 19	OFDM	BPSK	6.5	F
For 5 GHz Draft 802.11n (40MHz)	3 to 9	3, 4, 5, 9	OFDM	BPSK	13.5	L



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ANTENNA PORT CONDUCTED MEASUREMENT:

- 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	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	5 to 19	5, 7, 8, 9, 14, 19	OFDM	BPSK	6	A
802.11a	5 to 19	5, 7, 8, 9, 14, 19	OFDM	BPSK	6	C
For 5 GHz Draft 802.11n (20MHz)	5 to 19	5, 7, 8, 9, 14, 19	OFDM	BPSK	6.5	F
For 5 GHz Draft 802.11n (40MHz)	3 to 9	3, 4, 5, 7, 9	OFDM	BPSK	13.5	L



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3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 11n Access-Point. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

ANSI C63.4-2003

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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3.4 DESCRIPTION OF SUPPORT UNITS

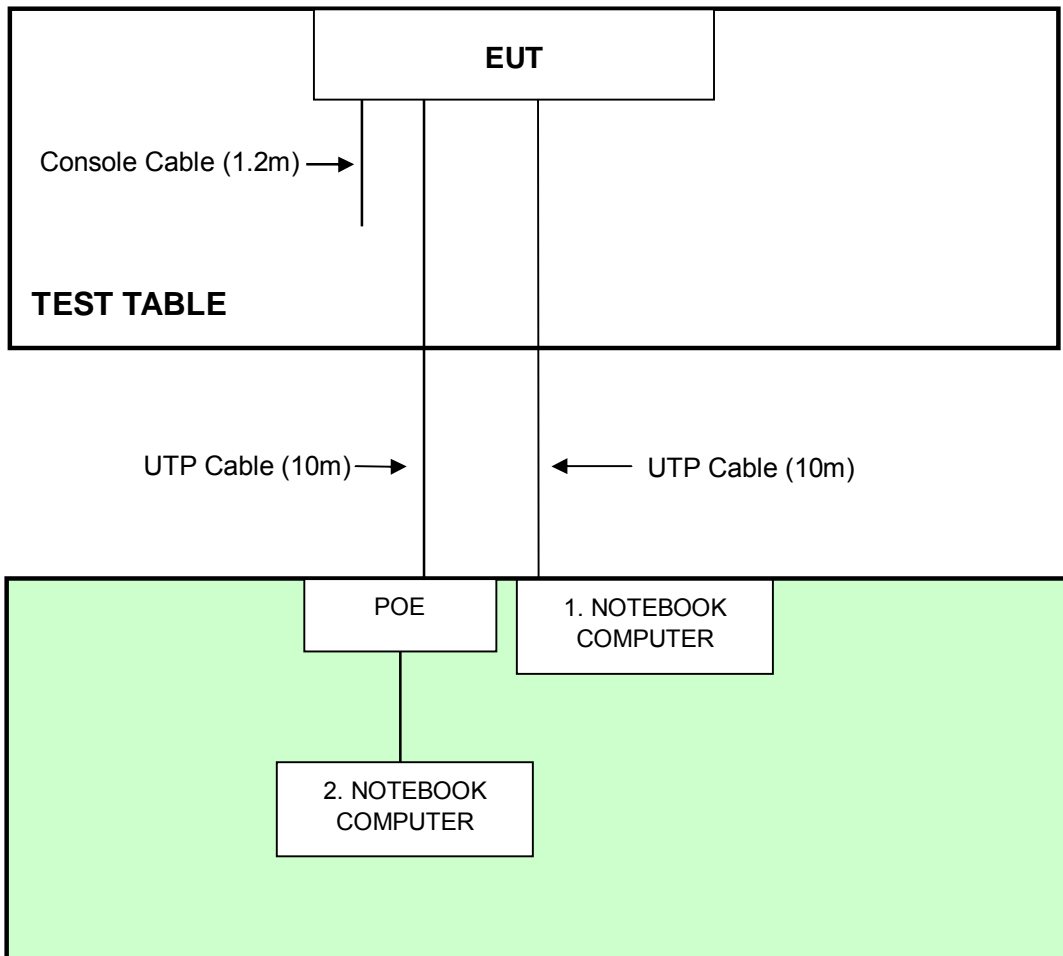
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	D531	CN-0XM006-48643-86L-4472	QDS-BRCM1019
2	NOTEBOOK COMPUTER	DELL	PP18L	6976685584	FCC DoC

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	UTP Cable (10m)
2	UTP Cable (10m)

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST





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4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	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 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver	ESCS 30	100375	Mar. 23, 2009	Mar. 22, 2010
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100071	Nov. 26, 2008	Nov. 25, 2009
Line-Impedance Stabilization Network (for EUT)	ESH3-Z5	848773/004	Nov. 05, 2008	Nov. 04, 2009
RF Cable (JYEBAO)	5DFB	COBCAB-001	Aug. 14, 2009	Aug. 13, 2010
50 ohms Terminator	50	3	Nov. 05, 2008	Nov. 04, 2009
Software	BV ADT_Cond_V7.3.7	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. B.
3. The VCCI Con B Registration No. is C-2193.



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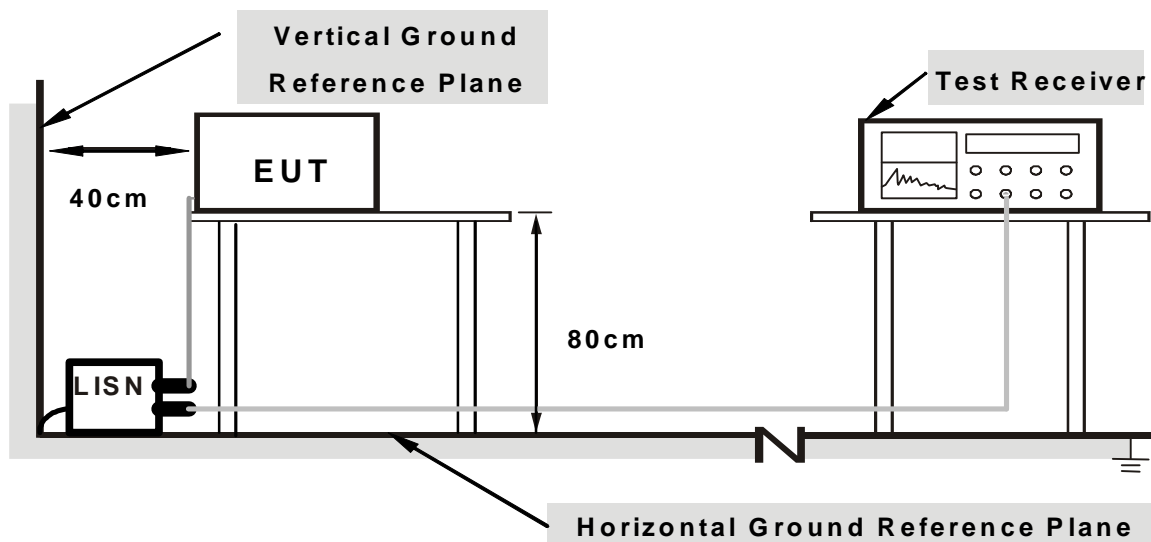
4.1.3 TEST PROCEDURES

- a. 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
- b. provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- c. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- d. The frequency range from 150kHz to 30MHz was searched. Emission level under (Limit – 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

1. Placed the EUT on the testing table.
2. Prepared other computer systems to act as a communication partner and placed them outside of testing area.
3. The communication partner run test program “AR5088nx MB82” to enable EUT under transmission/receiving condition continuously at specific channel frequency via UTP cables.

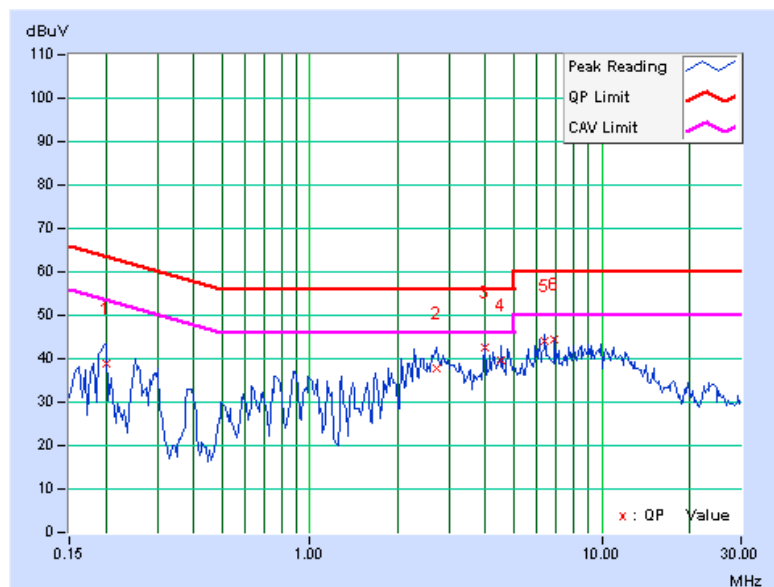
4.1.7 TEST RESULTS

802.11a OFDM MODULATION < Radio Card 3>:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	PHASE	Line (L)
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 965hPa	TESTED BY	Eagle Chen
TEST MODE	Radio Card 3		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.201	0.22	38.75	-	38.97	-	63.58	53.58	-24.61	-
2	2.727	0.47	37.32	-	37.79	-	56.00	46.00	-18.21	-
+3	3.984	0.58	41.96	-	42.54	-	56.00	46.00	-13.46	-
4	4.516	0.59	38.97	-	39.56	-	56.00	46.00	-16.44	-
5	6.375	0.63	43.34	-	43.97	-	60.00	50.00	-16.03	-
6	6.902	0.64	43.68	-	44.32	-	60.00	50.00	-15.68	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



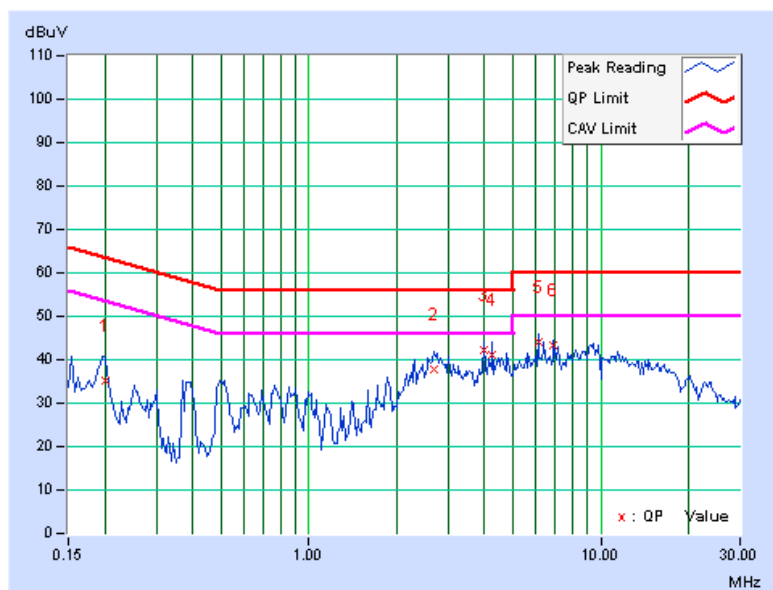


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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	PHASE	Neutral (N)
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 965hPa	TESTED BY	Eagle Chen
TEST MODE	Radio Card 3		

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.201	0.15	34.95	-	35.10	-	63.58	53.58	-28.48	-
2	2.668	0.39	37.56	-	37.95	-	56.00	46.00	-18.05	-
+3	3.984	0.51	41.68	-	42.19	-	56.00	46.00	-13.81	-
4	4.250	0.51	40.74	-	41.25	-	56.00	46.00	-14.75	-
5	6.105	0.53	43.72	-	44.25	-	60.00	50.00	-15.75	-
6	6.902	0.54	42.82	-	43.36	-	60.00	50.00	-16.64	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.





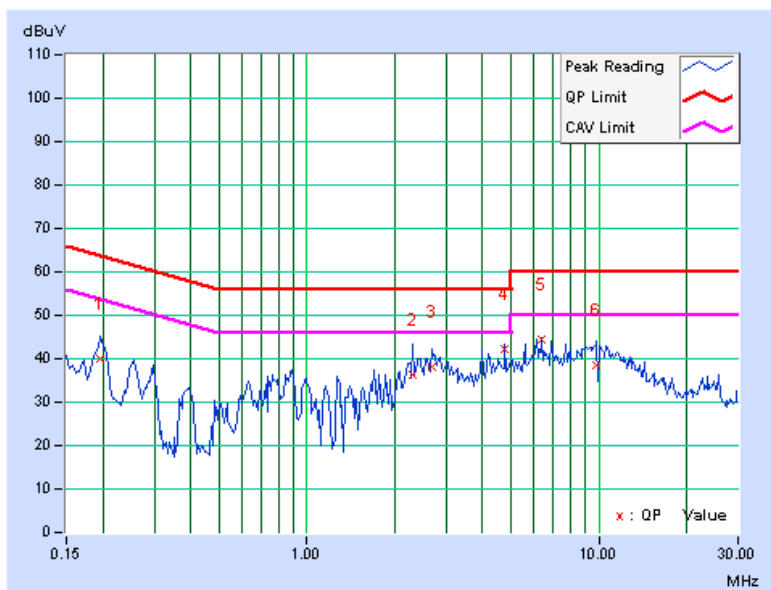
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DRAFT 802.11n (40MHz) OFDM MODULATION < Radio Card 2>:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line (L)
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 965hPa	TESTED BY	Eagle Chen
TEST MODE	Radio Card 2		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.22	39.75	-	39.97	-	63.74	53.74	-23.77	-
2	2.301	0.44	35.83	-	36.27	-	56.00	46.00	-19.73	-
3	2.680	0.47	37.56	-	38.03	-	56.00	46.00	-17.97	-
+4	4.777	0.60	41.53	-	42.13	-	56.00	46.00	-13.87	-
5	6.371	0.63	43.97	-	44.60	-	60.00	50.00	-15.40	-
6	9.863	0.71	37.89	-	38.60	-	60.00	50.00	-21.40	-

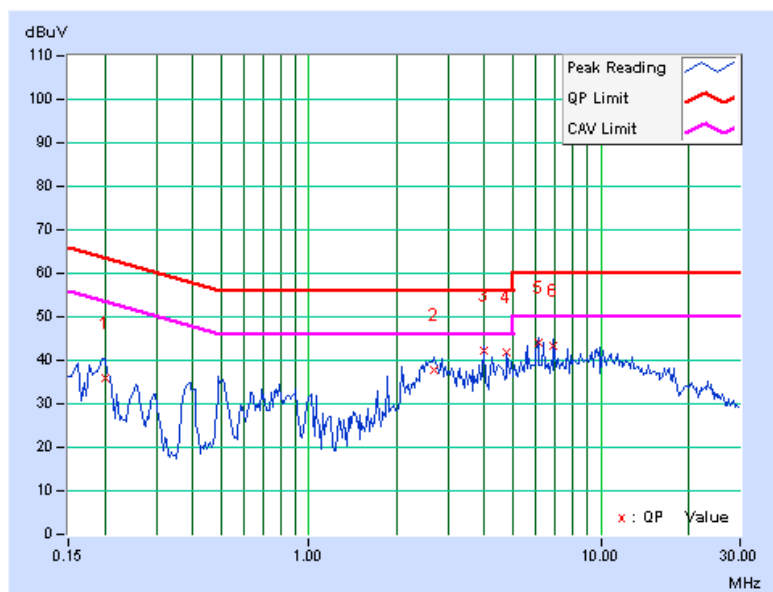
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Neutral (N)
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 965hPa	TESTED BY	Eagle Chen
TEST MODE	Radio Card 2		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.15	35.77	-	35.92	-	63.58
2	2.676	0.39	37.54	-	37.93	-	56.00	46.00	-18.07	-
+3	3.980	0.51	41.58	-	42.09	-	56.00	46.00	-13.91	-
4	4.777	0.52	41.26	-	41.78	-	56.00	46.00	-14.22	-
5	6.105	0.53	43.37	-	43.90	-	60.00	50.00	-16.10	-
6	6.902	0.54	42.87	-	43.41	-	60.00	50.00	-16.59	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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. As shown in 15.35(b), 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.



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4.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dB μ V/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

NOTE:

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$



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4.2.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 9, 2008	Dec. 8, 2009
HP Pre_Amplifier	8449B	3008A01923	Nov. 10, 2008	Nov. 9, 2009
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Aug. 28, 2009	Aug. 28, 2010
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	April 29, 2009	April 28, 2010
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 09, 2008	Dec. 08, 2009
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 22, 2009	Jan. 21, 2010
R&S Loop Antenna	HFH2-Z2	100070	Jan. 14, 2008	Jan. 13, 2010
RF Switches	EMH-011	08009	Oct. 07, 2008	Oct. 06, 2009
RF CABLE (Chaintek)	Sucoflex 106	28077	Aug. 14, 2009	Aug. 13, 2010
RF Cable	8DFB	STCCAB-30M-1GHz	Oct. 07, 2008	Oct. 06, 2009
Software	ADT_Radiated_V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	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, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: FSP40) are used only for the measurement of emission frequency above 1GHz if tested.

3. The test was performed in Open Site No. C.

4. The FCC Site Registration No. is 656396.

5. The VCCI Site Registration No. is R-1626.

6. The CANADA Site Registration No. is IC 7450G-3.

4.2.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. 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 antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

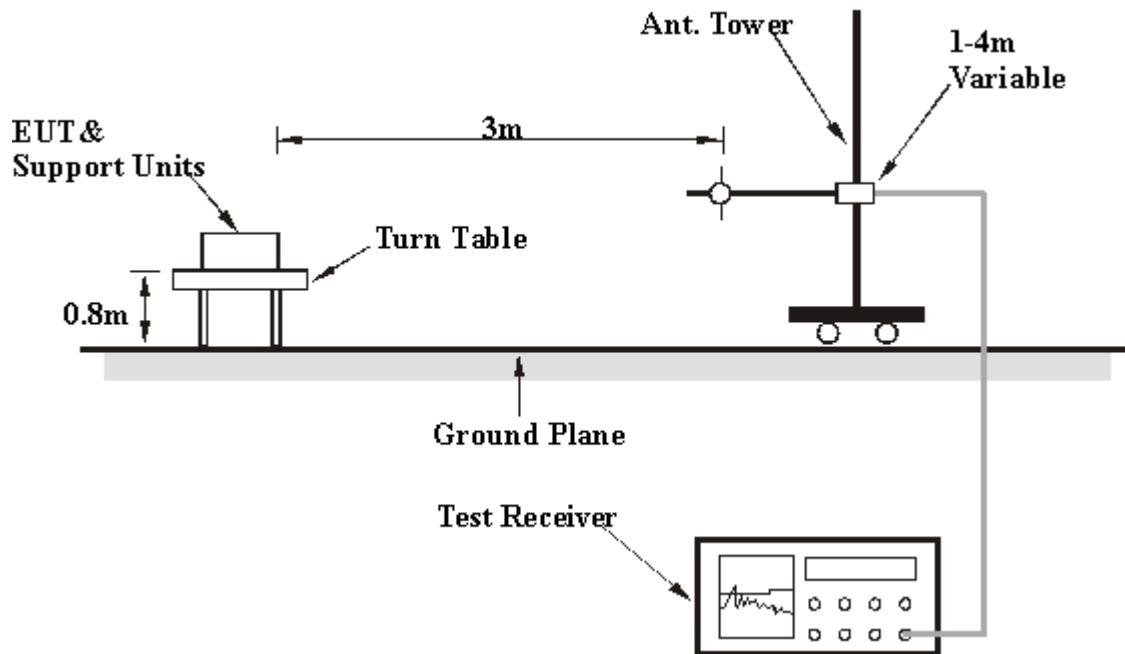
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and 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 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

4.2.5 DEVIATION FROM TEST STANDARD

No deviation

4.2.6 TEST SETUP



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

4.2.7 EUT OPERATING CONDITION

Same as 4.1.6



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4.2.8 TEST RESULTS – ANTENNA 4

BELOW 1GHz WORST-CASE DATA : DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30.0deg. C, 55.0%RH 965hPa	TESTED BY	Frank Liu

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	125.00	28.34 QP	43.50	-15.16	1.28 H	154	15.27	13.07
2	250.00	44.24 QP	46.00	-1.76	1.32 H	299	29.99	14.25
3	375.00	39.58 QP	46.00	-6.42	1.31 H	281	20.77	18.81
4	650.00	42.69 QP	46.00	-3.31	1.27 H	205	17.16	25.53
5	750.00	36.58 QP	46.00	-9.42	1.15 H	239	9.67	26.91
6	875.00	37.37 QP	46.00	-8.63	1.00 H	138	8.08	29.29
7	1000.00	39.86 QP	54.00	-14.14	1.15 H	167	9.12	30.74
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	57.21	32.75 QP	40.00	-7.25	1.00 V	266	19.06	13.69
2	125.00	30.58 QP	43.50	-12.92	1.00 V	254	17.51	13.07
3	250.00	28.97 QP	46.00	-17.03	1.00 V	78	14.72	14.25
4	375.00	39.73 QP	46.00	-6.27	1.08 V	242	20.92	18.81
5	600.00	38.67 QP	46.00	-7.33	1.00 V	335	13.63	25.04
6	650.00	39.54 QP	46.00	-6.46	1.00 V	285	14.01	25.53

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	47.75 PK	68.30	-20.55	1.02 H	248	14.82	32.93
2	4718.40	55.10 PK	74.00	-18.90	1.26 H	34	18.59	36.51
3	4718.40	43.22 AV	54.00	-10.78	1.26 H	34	6.71	36.51
4	*5260.00	116.30 PK			1.24 H	21	79.04	37.26
5	*5260.00	106.20 AV			1.24 H	21	68.94	37.26
6	#7013.30	52.58 PK	68.30	-15.72	1.60 H	47	9.42	43.16
7	#10520.00	54.93 PK	68.30	-13.37	1.51 H	277	8.16	46.77

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	#3506.60	45.60 PK	68.30	-22.70	1.22 V	29	12.67	32.93
2	4734.00	55.17 PK	74.00	-18.83	1.28 V	344	18.62	36.55
3	4734.00	43.20 AV	54.00	-10.80	1.28 V	344	6.65	36.55
4	*5260.00	122.47 PK			1.27 V	354	85.21	37.26
5	*5260.00	111.99 AV			1.27 V	354	74.73	37.26
6	#7013.30	52.30 PK	68.30	-16.00	1.21 V	11	9.14	43.16
7	#10520.00	54.40 PK	68.30	-13.90	1.02 V	258	7.63	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 965hPa	TESTED BY	Eric Lee

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	#3533.30	43.92 PK	68.30	-24.38	1.25 H	356	10.91	33.01
2	*5300.00	115.40 PK			1.26 H	37	78.14	37.26
3	*5300.00	105.10 AV			1.26 H	37	67.84	37.26
4	#7066.60	52.79 PK	68.30	-15.51	1.63 H	45	9.64	43.15
5	10600.00	54.60 PK	74.00	-19.40	1.53 H	284	7.77	46.83
6	10600.00	42.50 AV	54.00	-11.50	1.53 H	284	-4.33	46.83
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	#3533.30	43.40 PK	68.30	-24.90	1.04 V	48	10.39	33.01
2	*5300.00	121.22 PK			1.01 V	353	83.96	37.26
3	*5300.00	110.91 AV			1.01 V	353	73.65	37.26
4	#7066.60	52.60 PK	68.30	-15.70	1.02 V	34	9.45	43.15
5	10600.00	54.40 PK	74.00	-19.60	1.03 V	31	7.57	46.83
6	10600.00	41.80 AV	54.00	-12.20	1.03 V	31	-5.03	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 965hPa	TESTED BY	Eric Lee

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	#3546.60	43.85 PK	68.30	-24.45	1.27 H	343	10.80	33.05
2	*5320.00	114.10 PK			1.01 H	29	76.84	37.26
3	*5320.00	104.20 AV			1.01 H	29	66.94	37.26
4	5350.00	57.60 PK	74.00	-16.40	1.01 H	23	20.34	37.26
5	5350.00	45.25 AV	54.00	-8.75	1.01 H	23	7.99	37.26
6	#7093.30	52.94 PK	68.30	-15.36	1.65 H	39	9.79	43.15
7	10640.00	54.85 PK	74.00	-19.15	1.59 H	293	7.99	46.86
8	10640.00	41.38 AV	54.00	-12.62	1.59 H	293	-5.48	46.86

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	#3546.60	43.40 PK	68.30	-24.90	1.34 V	44	10.35	33.05
2	*5320.00	119.23 PK			1.27 V	355	81.97	37.26
3	*5320.00	109.06 AV			1.27 V	355	71.80	37.26
4	5350.00	63.21 PK	74.00	-10.79	1.25 V	0	25.95	37.26
5	5350.00	47.17 AV	54.00	-6.83	1.25 V	0	9.91	37.26
6	#7093.30	52.60 PK	68.30	-15.70	1.02 V	29	9.45	43.15
7	10640.00	54.30 PK	74.00	-19.70	1.00 V	31	7.44	46.86
8	10640.00	41.70 AV	54.00	-12.30	1.00 V	31	-5.16	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 965hPa	TESTED BY	Eric Lee

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	3666.60	43.92 PK	74.00	-30.08	1.33 H	312	10.51	33.41
2	3666.60	30.68 AV	54.00	-23.32	1.33 H	312	-2.73	33.41
3	5460.00	56.69 PK	74.00	-17.31	1.21 H	45	19.43	37.26
4	5460.00	44.72 AV	54.00	-9.28	1.21 H	45	7.46	37.26
5	#5470.00	61.30 PK	68.30	-7.00	1.21 H	44	24.04	37.26
6	*5500.00	111.20 PK			1.21 H	44	73.94	37.26
7	*5500.00	100.70 AV			1.21 H	44	63.44	37.26
8	7333.30	52.74 PK	74.00	-21.26	1.63 H	27	9.61	43.13
9	7333.30	39.68 AV	54.00	-14.32	1.63 H	27	-3.45	43.13
10	11000.00	54.87 PK	74.00	-19.13	1.55 H	280	7.72	47.15
11	11000.00	41.28 AV	54.00	-12.72	1.55 H	280	-5.87	47.15

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	3666.60	43.40 PK	74.00	-30.60	1.02 V	36	9.99	33.41
2	3666.60	30.10 AV	54.00	-23.90	1.02 V	36	-3.31	33.41
3	5460.00	57.88 PK	74.00	-16.12	1.11 V	353	20.62	37.26
4	5460.00	45.07 AV	54.00	-8.93	1.11 V	353	7.81	37.26
5	#5470.00	67.57 PK	68.30	-0.73	1.09 V	342	30.31	37.26
6	*5500.00	116.75 PK			1.00 V	353	79.49	37.26
7	*5500.00	106.48 AV			1.00 V	353	69.22	37.26
8	7333.30	52.30 PK	74.00	-21.70	1.01 V	24	9.17	43.13
9	7333.30	37.40 AV	54.00	-16.60	1.01 V	24	-5.73	43.13
10	11000.00	54.60 PK	74.00	-19.40	1.04 V	37	7.45	47.15
11	11000.00	41.10 AV	54.00	-12.90	1.04 V	37	-6.05	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * " : Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 965hPa	TESTED BY	Eric Lee

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	3733.30	43.87 PK	74.00	-30.13	1.35 H	349	10.26	33.61
2	3733.30	30.71 AV	54.00	-23.29	1.35 H	349	-2.90	33.61
3	*5600.00	115.30 PK			1.36 H	37	77.76	37.54
4	*5600.00	105.40 AV			1.36 H	37	67.86	37.54
5	7466.60	52.86 PK	74.00	-21.14	1.69 H	15	9.74	43.12
6	7466.60	39.77 AV	54.00	-14.23	1.69 H	15	-3.35	43.12
7	11200.00	56.28 PK	74.00	-17.72	1.54 H	272	9.10	47.18
8	11200.00	42.65 AV	54.00	-11.35	1.54 H	272	-4.53	47.18
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	3733.30	43.30 PK	74.00	-30.70	1.65 V	256	9.69	33.61
2	3733.30	30.40 AV	54.00	-23.60	1.65 V	256	-3.21	33.61
3	*5600.00	120.56 PK			1.21 V	352	83.02	37.54
4	*5600.00	110.29 AV			1.21 V	352	72.75	37.54
5	7466.60	52.40 PK	74.00	-21.60	1.02 V	59	9.28	43.12
6	7466.60	37.20 AV	54.00	-16.80	1.02 V	59	-5.92	43.12
7	11200.00	56.10 PK	74.00	-17.90	1.24 V	24	8.92	47.18
8	11200.00	42.30 AV	54.00	-11.70	1.24 V	24	-4.88	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 965hPa	TESTED BY	Eric Lee

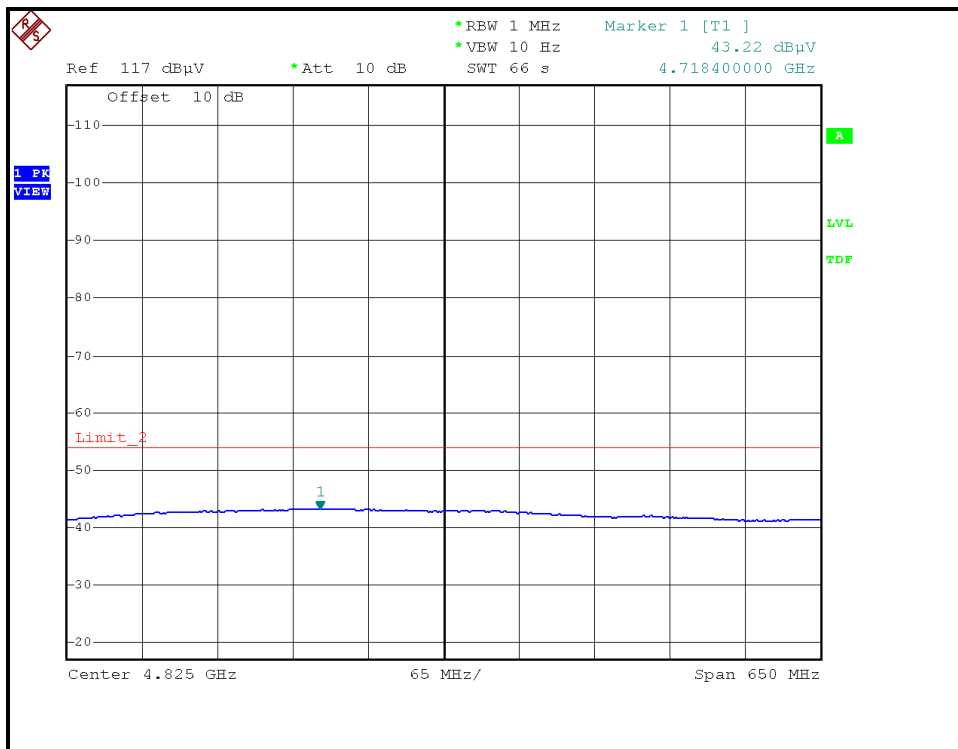
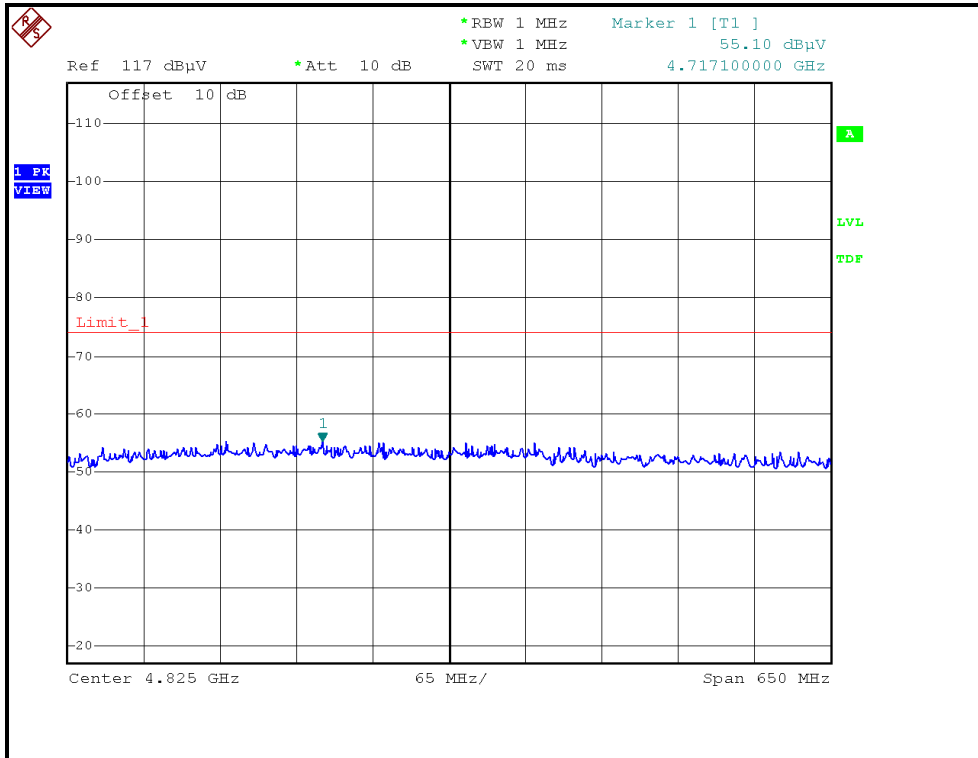
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	43.75 PK	74.00	-30.25	1.33 H	356	9.93	33.82
2	3800.00	30.69 AV	54.00	-23.31	1.33 H	356	-3.13	33.82
3	*5700.00	110.30 PK			1.24 H	39	72.47	37.83
4	*5700.00	100.20 AV			1.24 H	39	62.37	37.83
5	#5725.00	61.50 PK	68.30	-6.80	1.24 H	39	23.60	37.90
6	7600.00	52.73 PK	74.00	-21.27	1.61 H	289	9.42	43.31
7	7600.00	39.82 AV	54.00	-14.18	1.61 H	289	-3.49	43.31
8	11400.00	55.74 PK	74.00	-18.26	1.32 H	24	8.53	47.21
9	11400.00	42.23 AV	54.00	-11.77	1.32 H	24	-4.98	47.21
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	3800.00	43.20 PK	74.00	-30.80	1.02 V	42	9.38	33.82
2	3800.00	30.30 AV	54.00	-23.70	1.02 V	42	-3.52	33.82
3	*5700.00	115.17 PK			1.06 V	354	77.34	37.83
4	*5700.00	105.05 AV			1.06 V	354	67.22	37.83
5	#5725.00	67.68 PK	68.30	-0.62	1.07 V	353	29.78	37.90
6	7600.00	53.20 PK	74.00	-20.80	1.02 V	93	9.89	43.31
7	7600.00	39.40 AV	54.00	-14.60	1.02 V	93	-3.91	43.31
8	11400.00	55.50 PK	74.00	-18.50	1.05 V	24	8.29	47.21
9	11400.00	42.10 AV	54.00	-11.90	1.05 V	24	-5.11	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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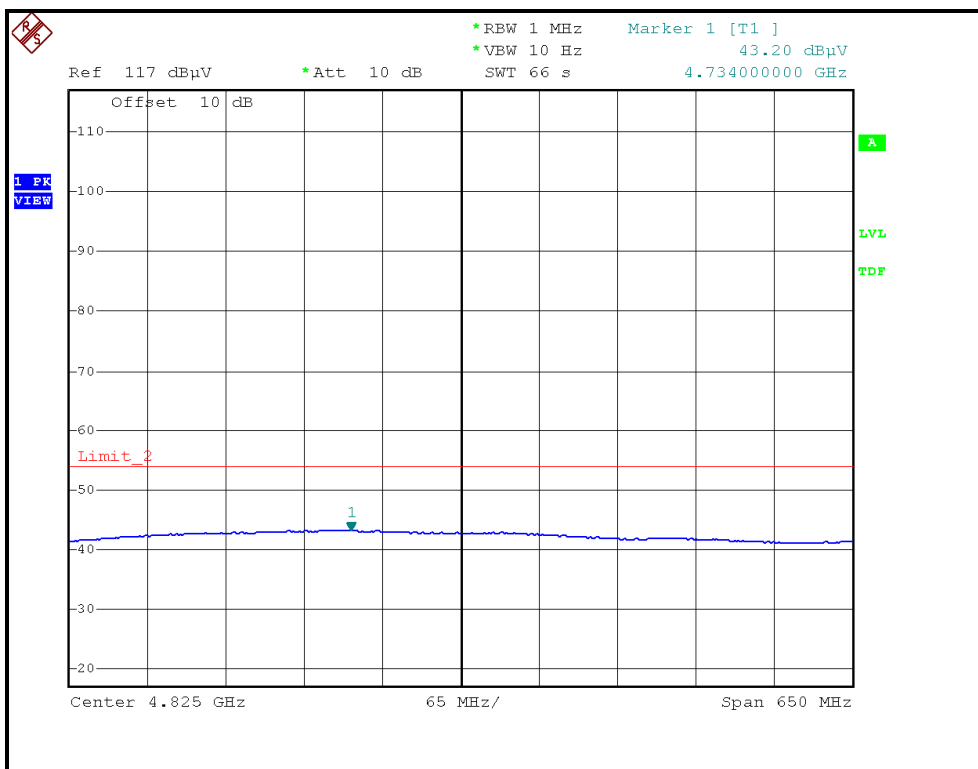
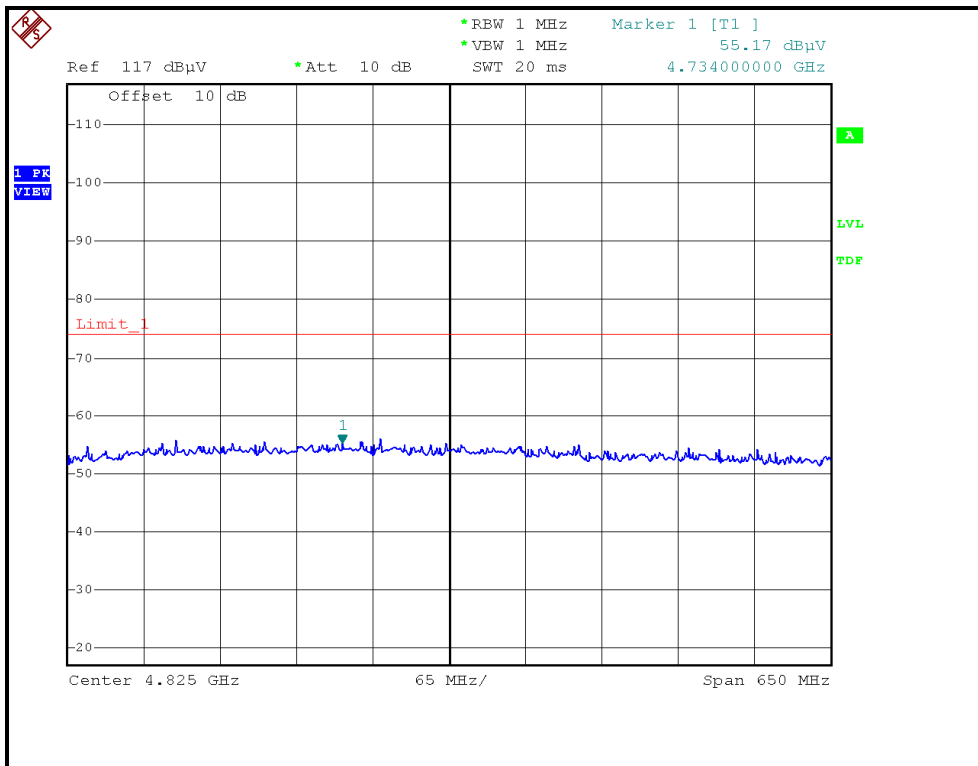
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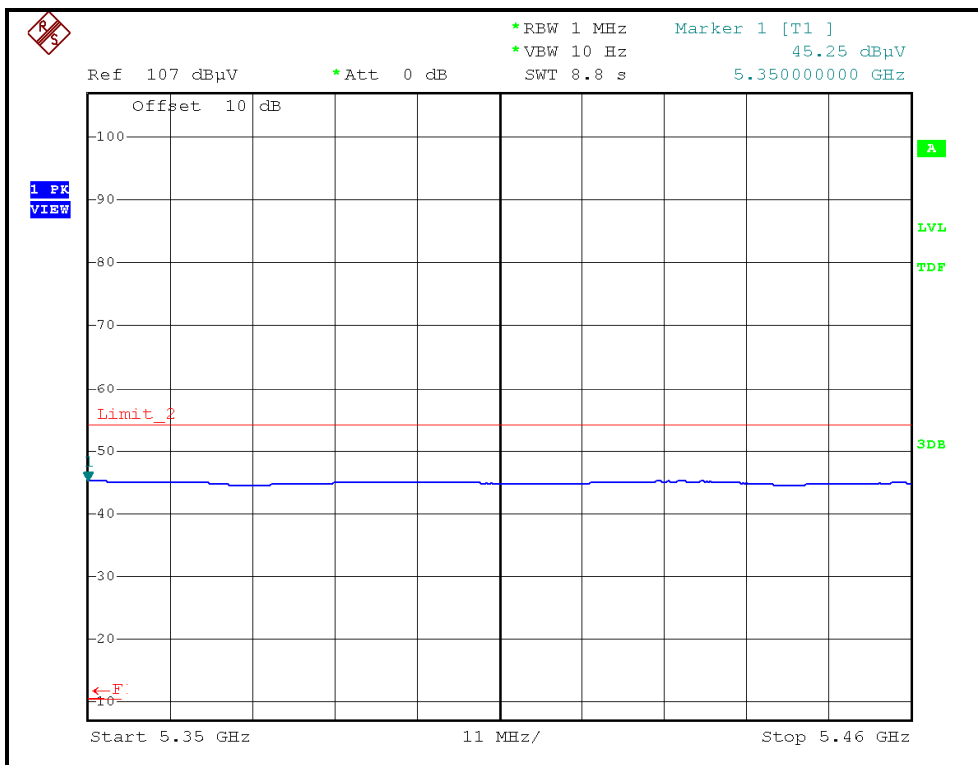
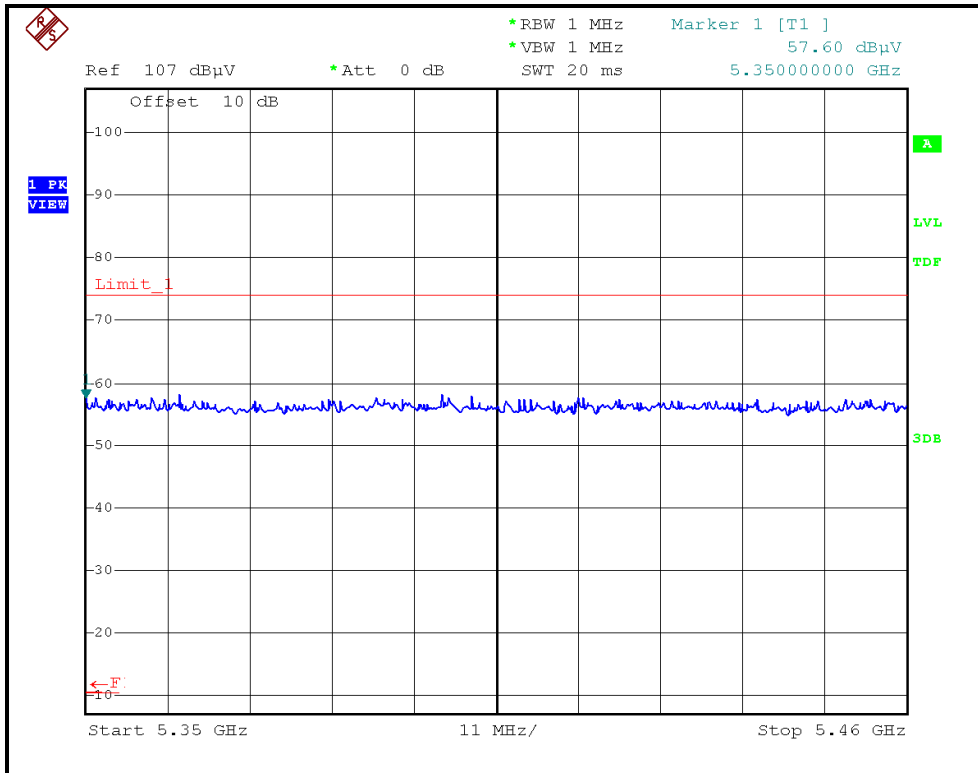
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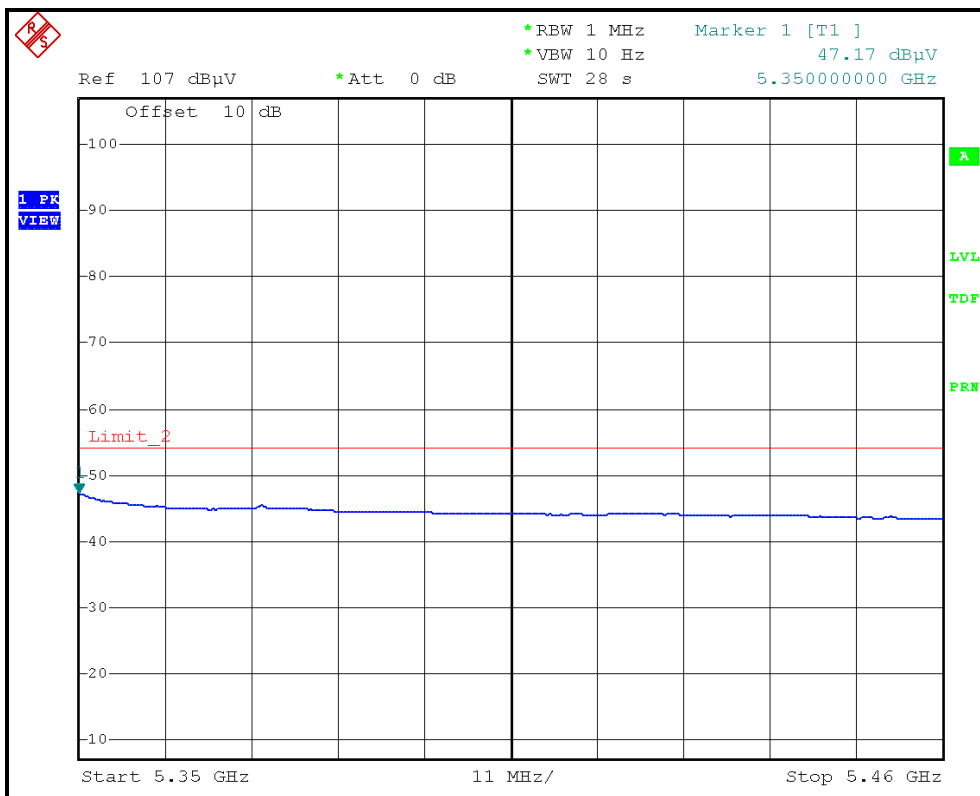
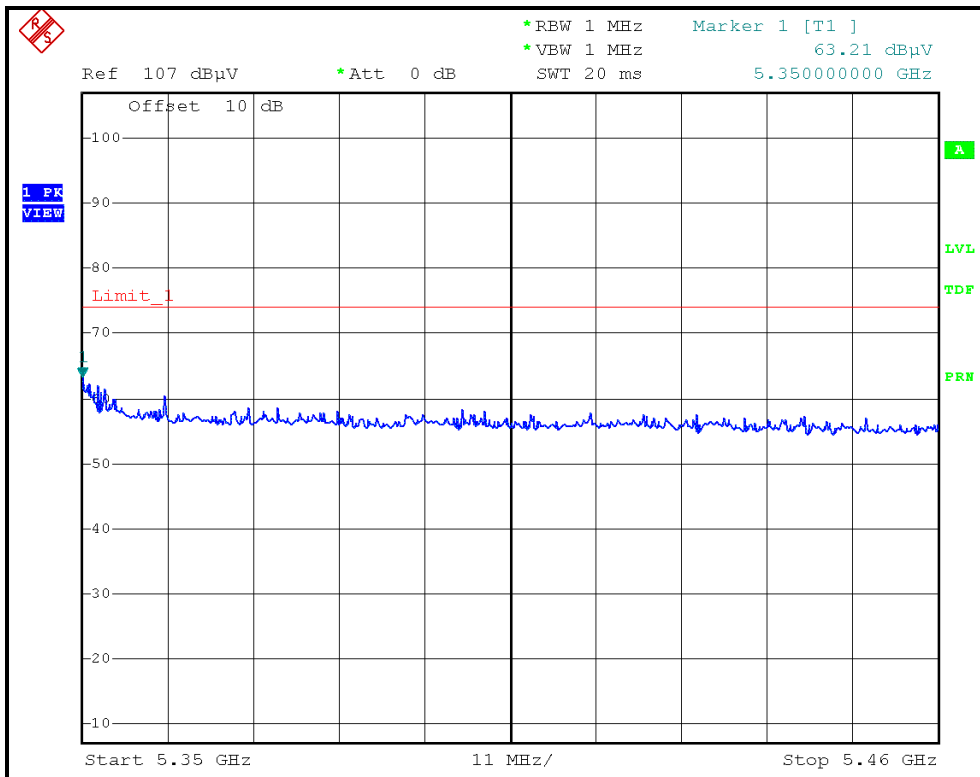
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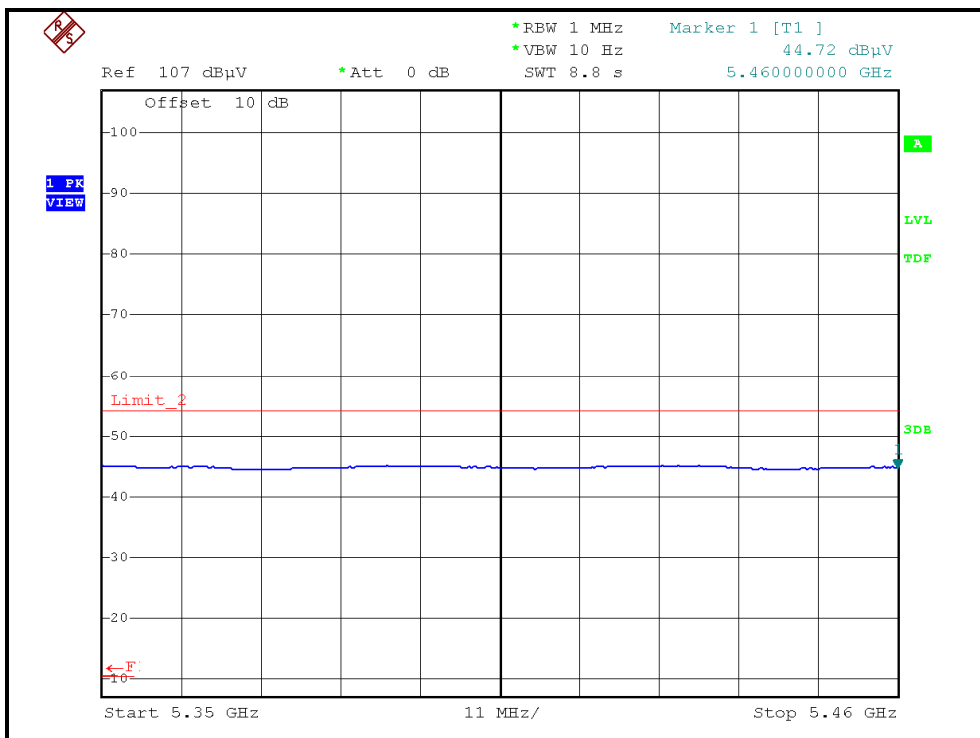
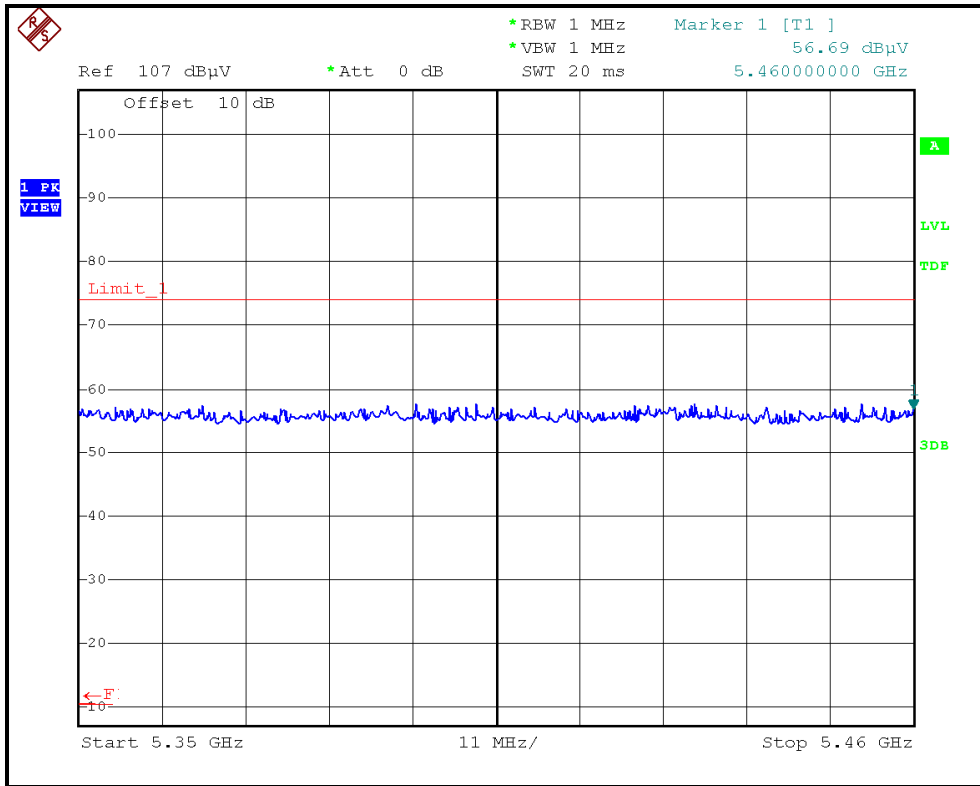
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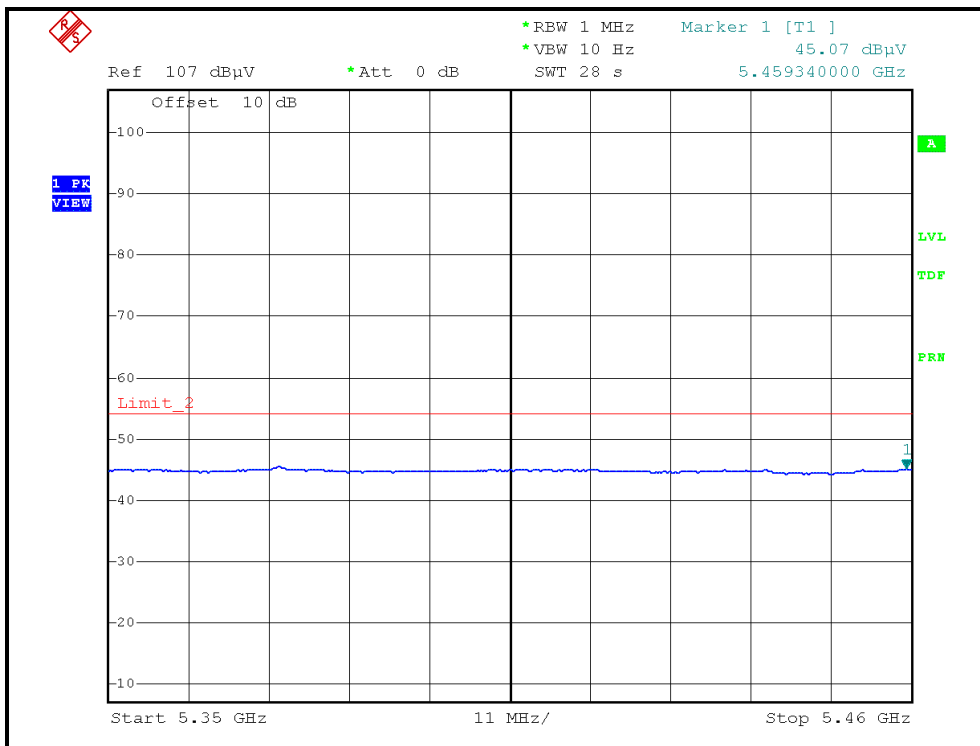
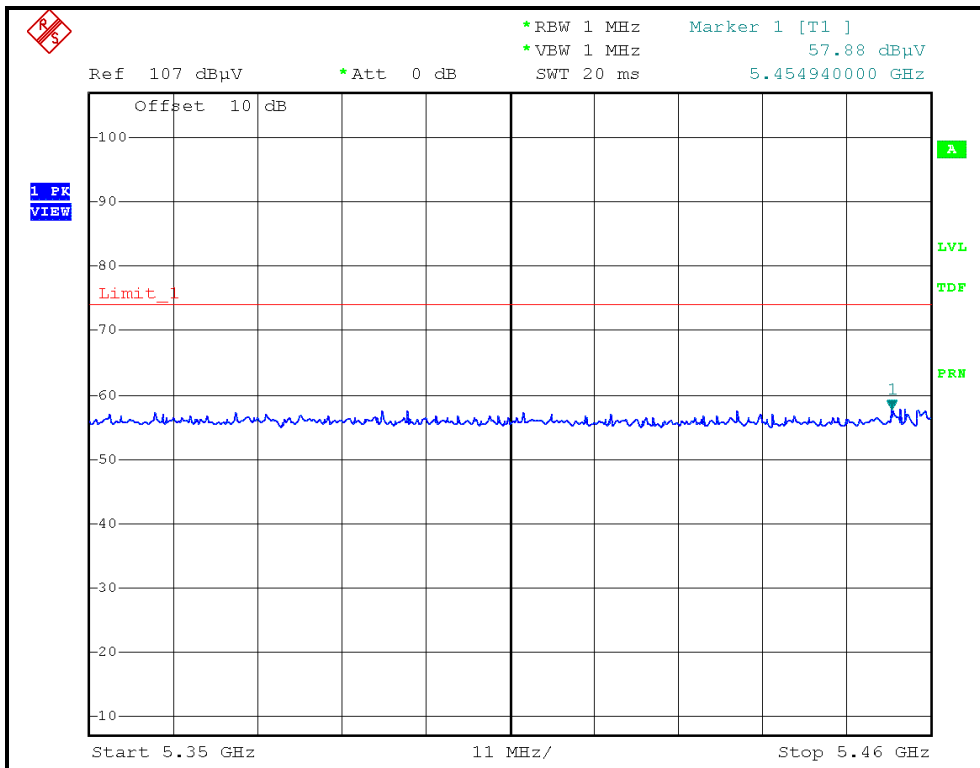
RESTRICTED BANDEDGE (802.11a MODE, CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11a MODE, CH9, VERTICAL)





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DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	44.26 PK	68.30	-24.04	1.28 H	342	11.33	32.93
2	4723.40	55.90 PK	74.00	-18.10	1.21 H	42	19.38	36.52
3	4723.40	43.18 AV	54.00	-10.82	1.21 H	42	6.66	36.52
4	*5260.00	116.40 PK			1.20 H	39	79.14	37.26
5	*5260.00	106.20 AV			1.20 H	39	68.94	37.26
6	#7013.30	53.26 PK	68.30	-15.04	1.66 H	55	10.10	43.16
7	#10520.00	55.38 PK	68.30	-12.92	1.50 H	281	8.61	46.77

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	#3506.60	44.10 PK	68.30	-24.20	1.04 V	21	11.17	32.93
2	4713.20	55.49 PK	74.00	-18.51	1.32 V	351	19.00	36.49
3	4713.20	43.10 AV	54.00	-10.90	1.32 V	351	6.61	36.49
4	*5260.00	122.66 PK			1.33 V	352	85.40	37.26
5	*5260.00	111.87 AV			1.33 V	352	74.61	37.26
6	#7013.30	53.10 PK	68.30	-15.20	1.01 V	24	9.94	43.16
7	#10520.00	55.10 PK	68.30	-13.20	1.02 V	29	8.33	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	#3533.30	44.25 PK	68.30	-24.05	1.25 H	336	11.24	33.01
2	*5300.00	115.30 PK			1.24 H	38	78.04	37.26
3	*5300.00	105.40 AV			1.24 H	38	68.14	37.26
4	#7066.60	53.31 PK	68.30	-14.99	1.65 H	58	10.16	43.15
5	10600.00	55.47 PK	74.00	-18.53	1.49 H	278	8.64	46.83
6	10600.00	42.66 AV	54.00	-11.34	1.49 H	278	-4.17	46.83
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	#3533.30	44.10 PK	68.30	-24.20	1.02 V	44	11.09	33.01
2	*5300.00	120.69 PK			1.31 V	352	83.43	37.26
3	*5300.00	110.00 AV			1.31 V	352	72.74	37.26
4	#7066.60	53.10 PK	68.30	-15.20	1.01 V	29	9.95	43.15
5	10600.00	54.29 PK	74.00	-19.71	1.04 V	42	7.46	46.83
6	10600.00	42.30 AV	54.00	-11.70	1.04 V	42	-4.53	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	#3546.60	44.32 PK	68.30	-23.98	1.21 H	358	11.27	33.05
2	*5320.00	112.60 PK			1.20 H	24	75.34	37.26
3	*5320.00	103.10 AV			1.20 H	24	65.84	37.26
4	5350.00	56.48 PK	74.00	-17.52	1.20 H	37	19.22	37.26
5	5350.00	45.31 AV	54.00	-8.69	1.20 H	37	8.05	37.26
6	#7093.30	53.38 PK	68.30	-14.92	1.66 H	47	10.23	43.15
7	10640.00	55.56 PK	74.00	-18.44	1.48 H	266	8.70	46.86
8	10640.00	42.77 AV	54.00	-11.23	1.48 H	266	-4.09	46.86

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	#3546.60	44.10 PK	68.30	-24.20	1.01 V	21	11.05	33.05
2	*5320.00	119.32 PK			1.30 V	355	82.06	37.26
3	*5320.00	108.99 AV			1.30 V	355	71.73	37.26
4	5350.00	64.12 PK	74.00	-9.88	1.30 V	355	26.86	37.26
5	5350.00	47.22 AV	54.00	-6.78	1.30 V	355	9.96	37.26
6	#7093.30	53.12 PK	68.30	-15.18	1.02 V	43	9.97	43.15
7	10640.00	55.40 PK	74.00	-18.60	1.04 V	24	8.54	46.86
8	10640.00	42.60 AV	54.00	-11.40	1.04 V	24	-4.26	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	3666.60	43.96 PK	74.00	-30.04	1.33 H	342	10.55	33.41
2	3666.60	30.72 AV	54.00	-23.28	1.33 H	342	-2.69	33.41
3	5460.00	56.39 PK	74.00	-17.61	1.20 H	42	19.13	37.26
4	5460.00	44.77 AV	54.00	-9.23	1.20 H	42	7.51	37.26
5	#5470.00	62.30 PK	68.30	-6.00	1.20 H	42	25.04	37.26
6	*5500.00	112.10 PK			1.26 H	39	74.84	37.26
7	*5500.00	102.30 AV			1.26 H	39	65.04	37.26
8	7333.30	52.82 PK	74.00	-21.18	1.63 H	58	9.69	43.13
9	7333.30	39.75 AV	54.00	-14.25	1.63 H	58	-3.38	43.13
10	11000.00	54.93 PK	74.00	-19.07	1.65 H	291	7.78	47.15
11	11000.00	42.35 AV	54.00	-11.65	1.65 H	291	-4.80	47.15

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	3666.60	43.70 PK	74.00	-30.30	1.04 V	44	10.29	33.41
2	3666.60	30.60 AV	54.00	-23.40	1.04 V	44	-2.81	33.41
3	5460.00	60.17 PK	74.00	-13.83	1.24 V	350	22.91	37.26
4	5460.00	44.77 AV	54.00	-9.23	1.24 V	350	7.51	37.26
5	#5470.00	67.59 PK	68.30	-0.71	1.24 V	345	30.33	37.26
6	*5500.00	117.99 PK			1.37 V	354	80.73	37.26
7	*5500.00	107.29 AV			1.37 V	354	70.03	37.26
8	7333.30	52.30 PK	74.00	-21.70	1.02 V	41	9.17	43.13
9	7333.30	39.40 AV	54.00	-14.60	1.02 V	41	-3.73	43.13
10	11000.00	54.40 PK	74.00	-19.60	1.01 V	42	7.25	47.15
11	11000.00	42.10 AV	54.00	-11.90	1.01 V	42	-5.05	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	3733.30	43.75 PK	74.00	-30.25	1.33 H	351	10.14	33.61
2	3733.30	30.63 AV	54.00	-23.37	1.33 H	351	-2.98	33.61
3	*5600.00	116.40 PK			1.24 H	31	78.86	37.54
4	*5600.00	105.40 AV			1.24 H	31	67.86	37.54
5	7466.60	52.94 PK	74.00	-21.06	1.65 H	42	9.82	43.12
6	7466.60	39.83 AV	54.00	-14.17	1.65 H	42	-3.29	43.12
7	11200.00	56.27 PK	74.00	-17.73	1.60 H	285	9.09	47.18
8	11200.00	42.81 AV	54.00	-11.19	1.60 H	285	-4.37	47.18
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	3733.30	43.40 PK	74.00	-30.60	1.04 V	41	9.79	33.61
2	3733.30	30.40 AV	54.00	-23.60	1.04 V	41	-3.21	33.61
3	*5600.00	121.42 PK			1.23 V	354	83.88	37.54
4	*5600.00	110.67 AV			1.23 V	354	73.13	37.54
5	7466.60	52.60 PK	74.00	-21.40	1.02 V	43	9.48	43.12
6	7466.60	39.30 AV	54.00	-14.70	1.02 V	43	-3.82	43.12
7	11200.00	56.10 PK	74.00	-17.90	1.01 V	29	8.92	47.18
8	11200.00	42.40 AV	54.00	-11.60	1.01 V	29	-4.78	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	3800.00	43.76 PK	74.00	-30.24	1.33 H	346	9.94	33.82
2	3800.00	30.78 AV	54.00	-23.22	1.33 H	346	-3.04	33.82
3	*5700.00	111.30 PK			1.21 H	34	73.47	37.83
4	*5700.00	100.20 AV			1.21 H	34	62.37	37.83
5	#5725.00	62.34 PK	68.30	-5.96	1.21 H	34	24.44	37.90
6	7600.00	52.82 PK	74.00	-21.18	1.62 H	39	9.51	43.31
7	7600.00	39.97 AV	54.00	-14.03	1.62 H	39	-3.34	43.31
8	11400.00	55.81 PK	74.00	-18.19	1.60 H	289	8.60	47.21
9	11400.00	42.30 AV	54.00	-11.70	1.60 H	289	-4.91	47.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

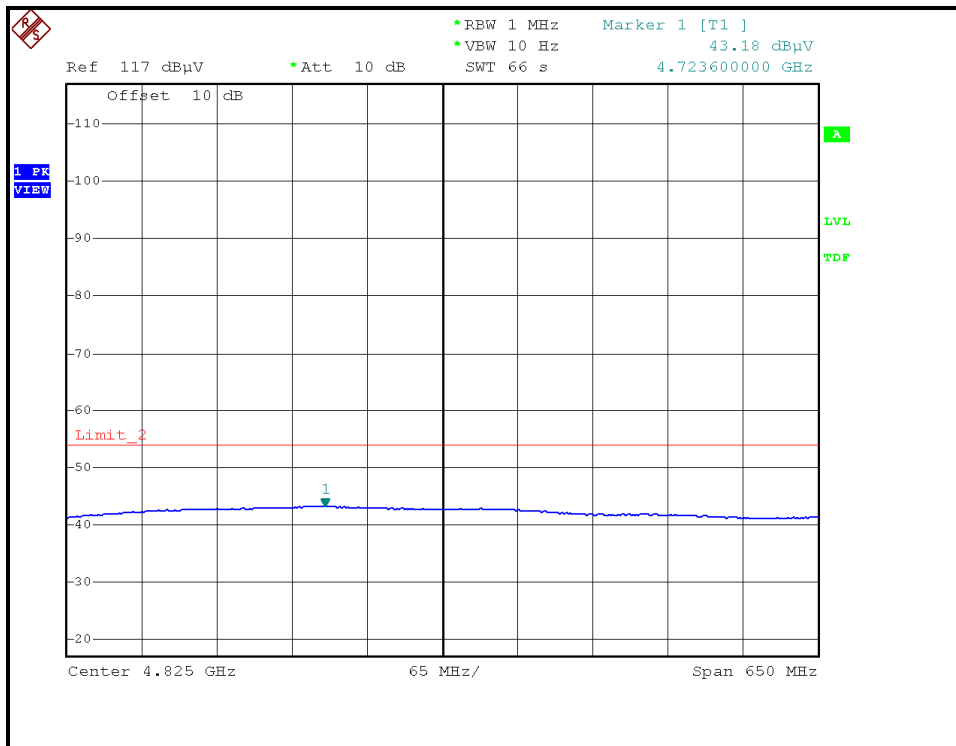
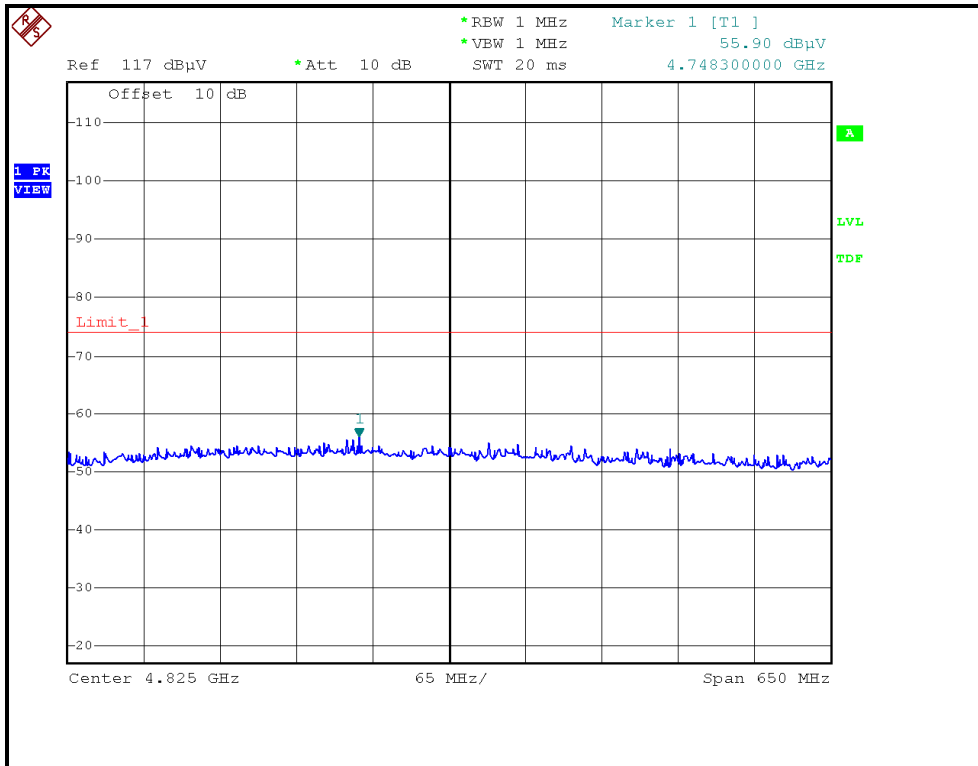
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1	3800.00	43.20 PK	74.00	-30.80	1.06 V	29	9.38	33.82
2	3800.00	30.40 AV	54.00	-23.60	1.06 V	29	-3.42	33.82
3	*5700.00	116.05 PK			1.32 V	358	78.22	37.83
4	*5700.00	105.16 AV			1.32 V	358	67.33	37.83
5	#5725.00	67.51 PK	68.30	-0.79	1.31 V	352	29.61	37.90
6	7600.00	52.40 PK	74.00	-21.60	1.02 V	21	9.09	43.31
7	7600.00	39.30 AV	54.00	-14.70	1.02 V	21	-4.01	43.31
8	11400.00	55.40 PK	74.00	-18.60	1.04 V	43	8.19	47.21
9	11400.00	42.10 AV	54.00	-11.90	1.04 V	43	-5.11	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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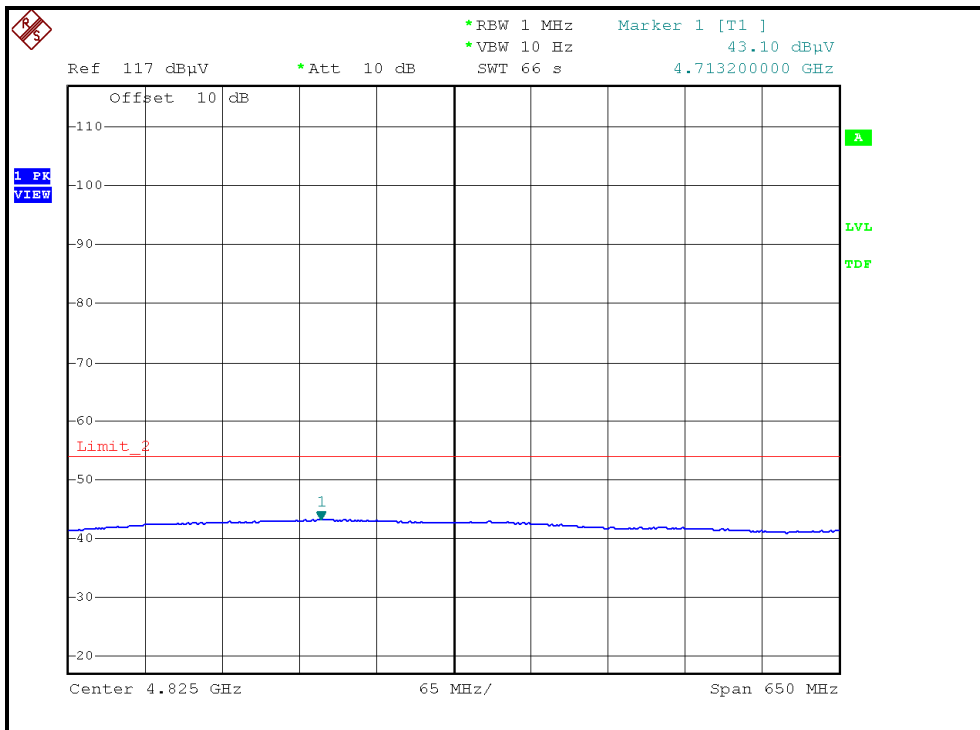
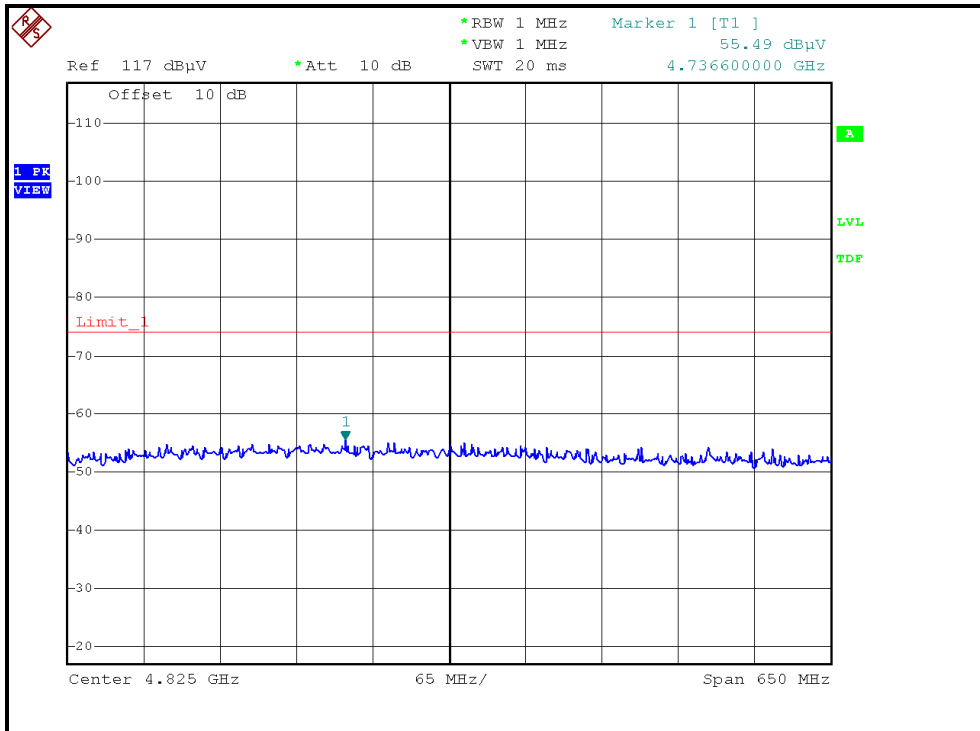
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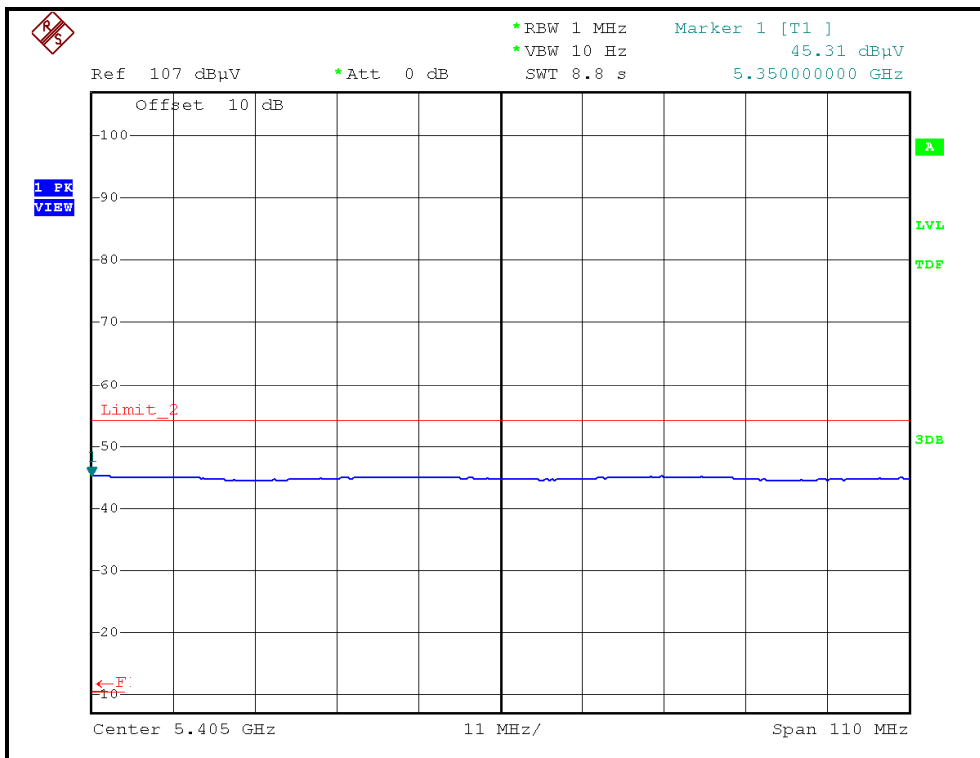
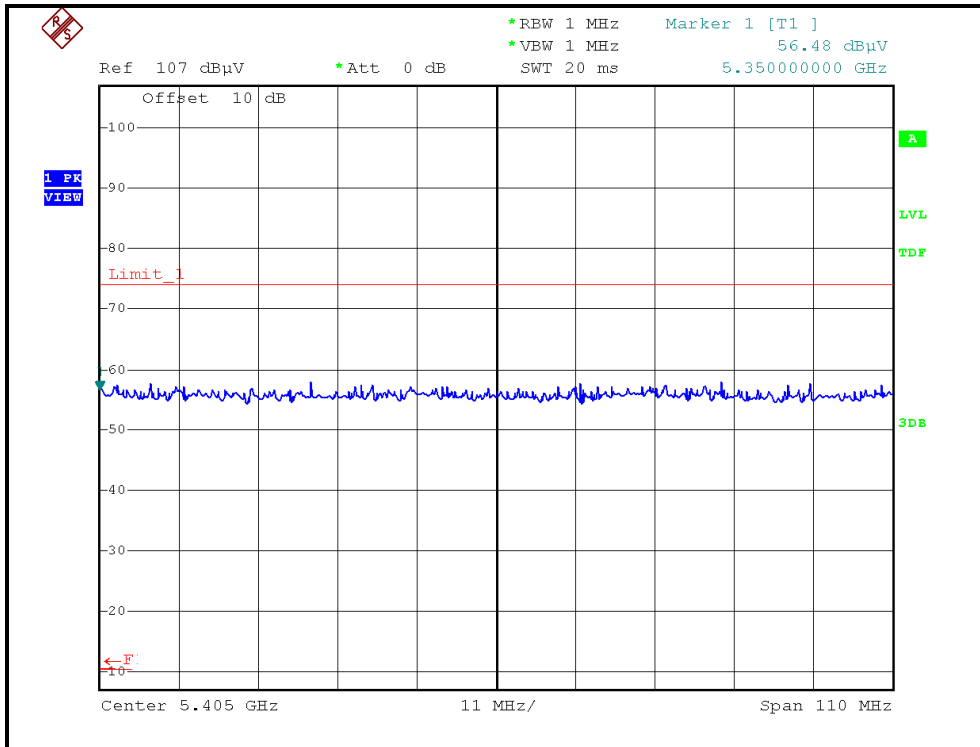
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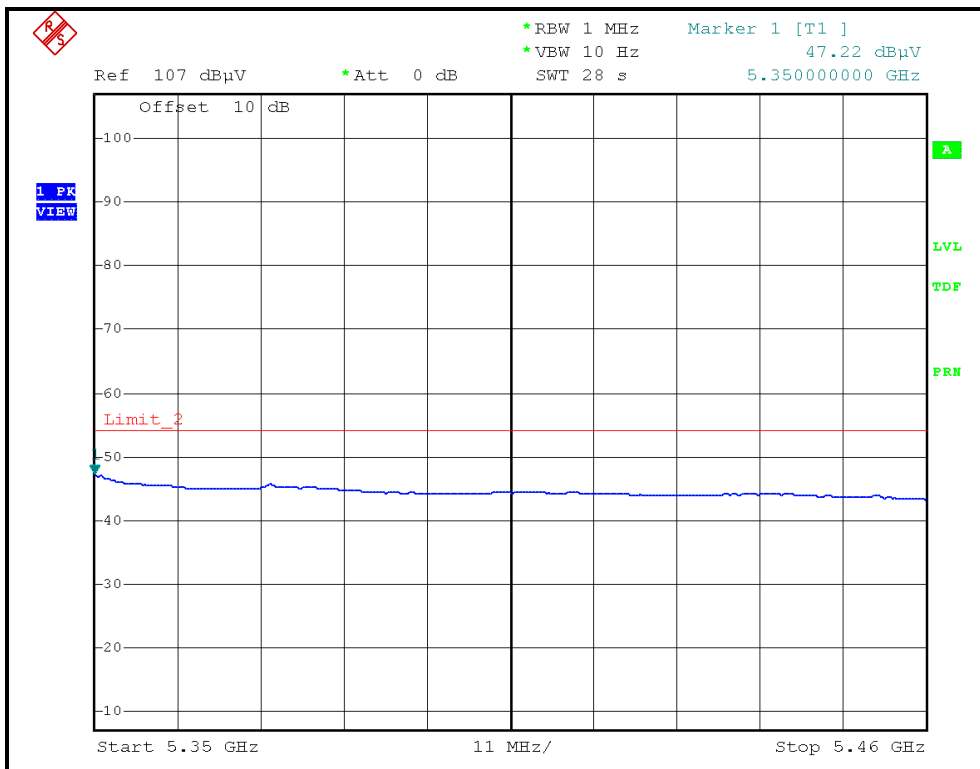
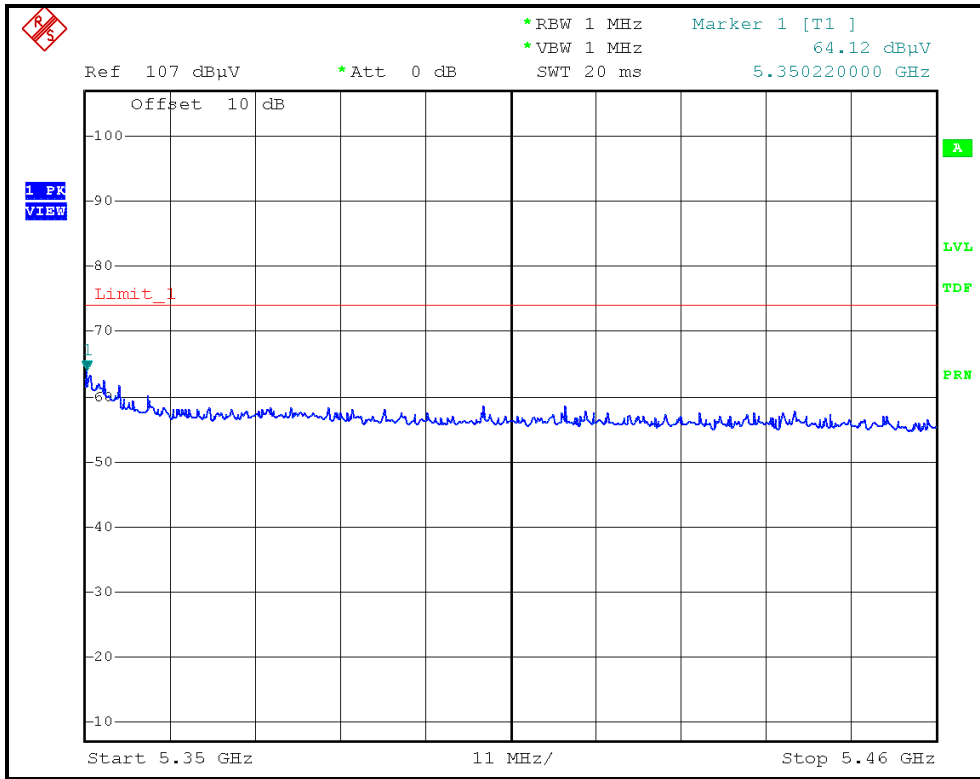
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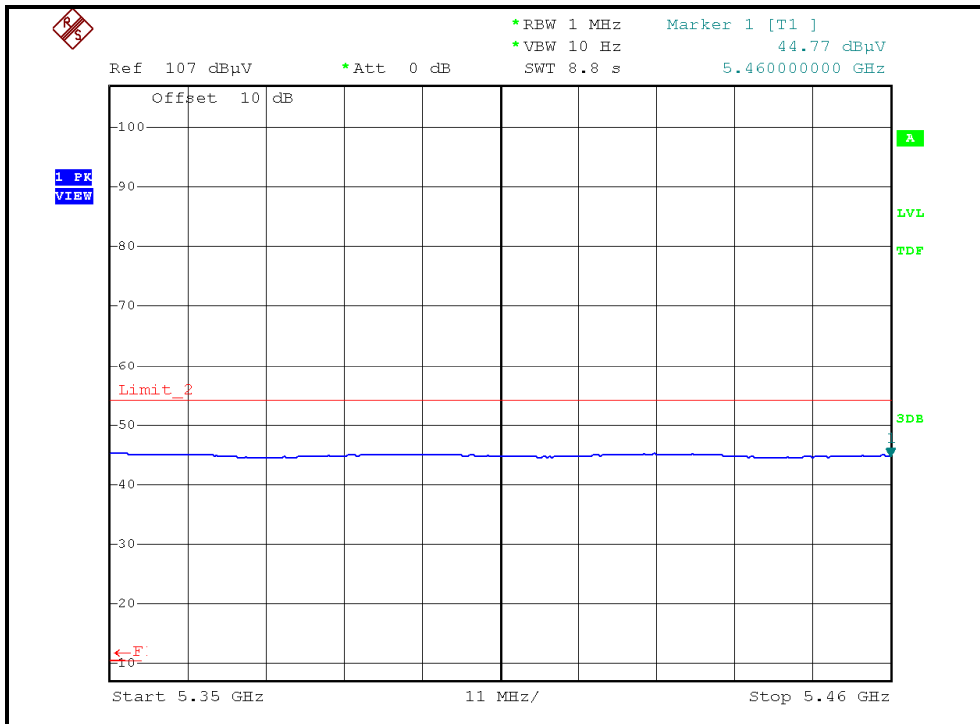
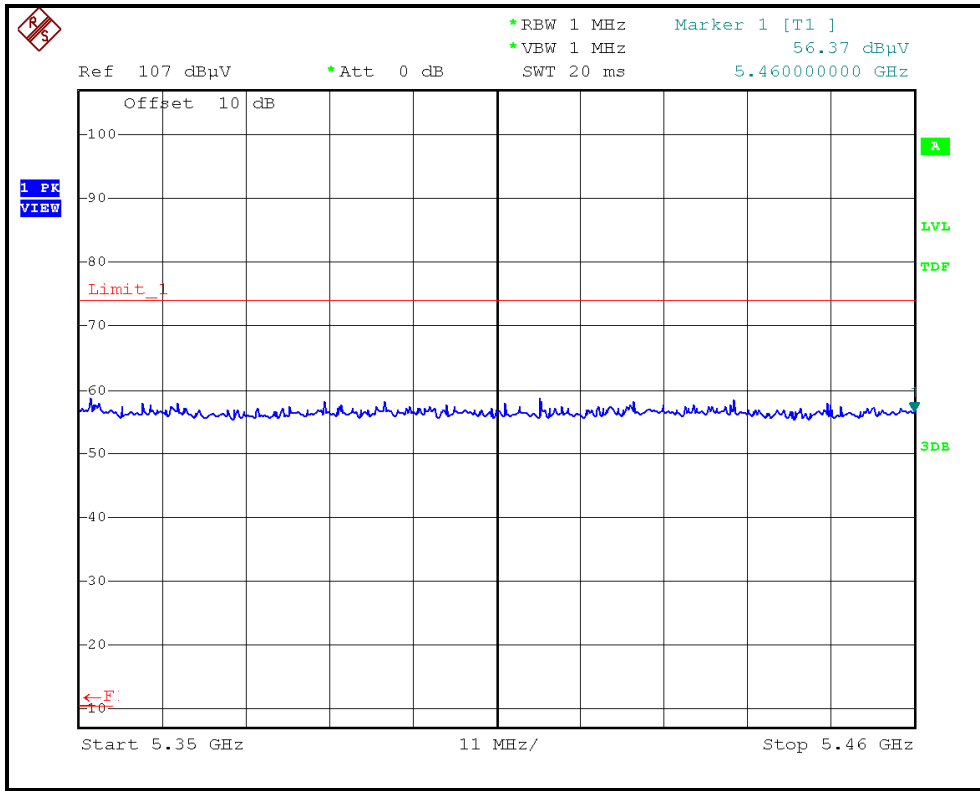
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH8, VERTICAL)





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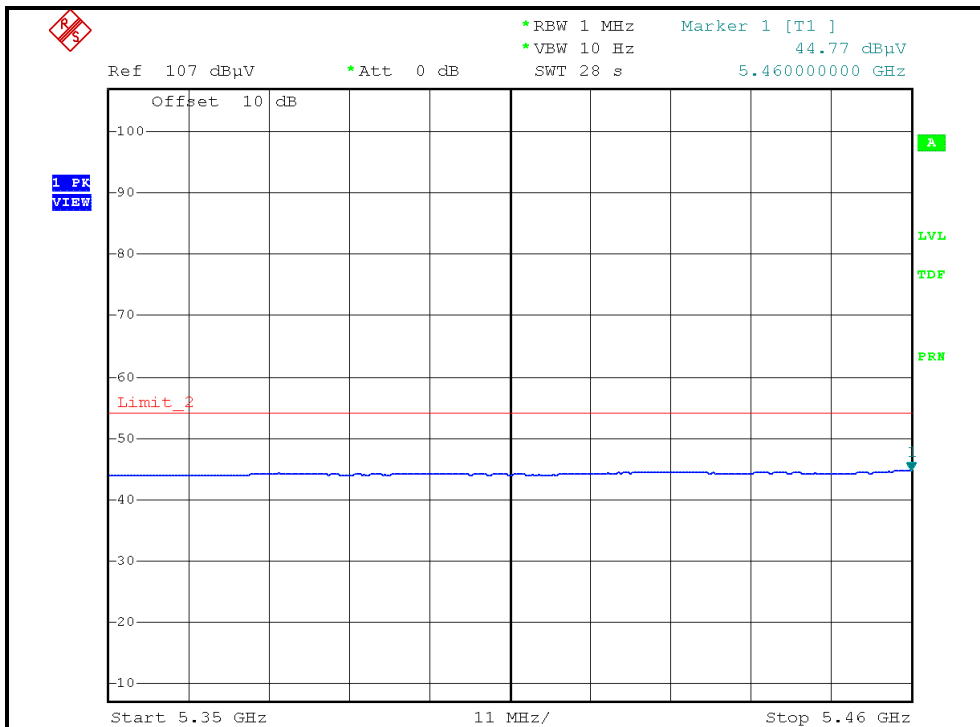
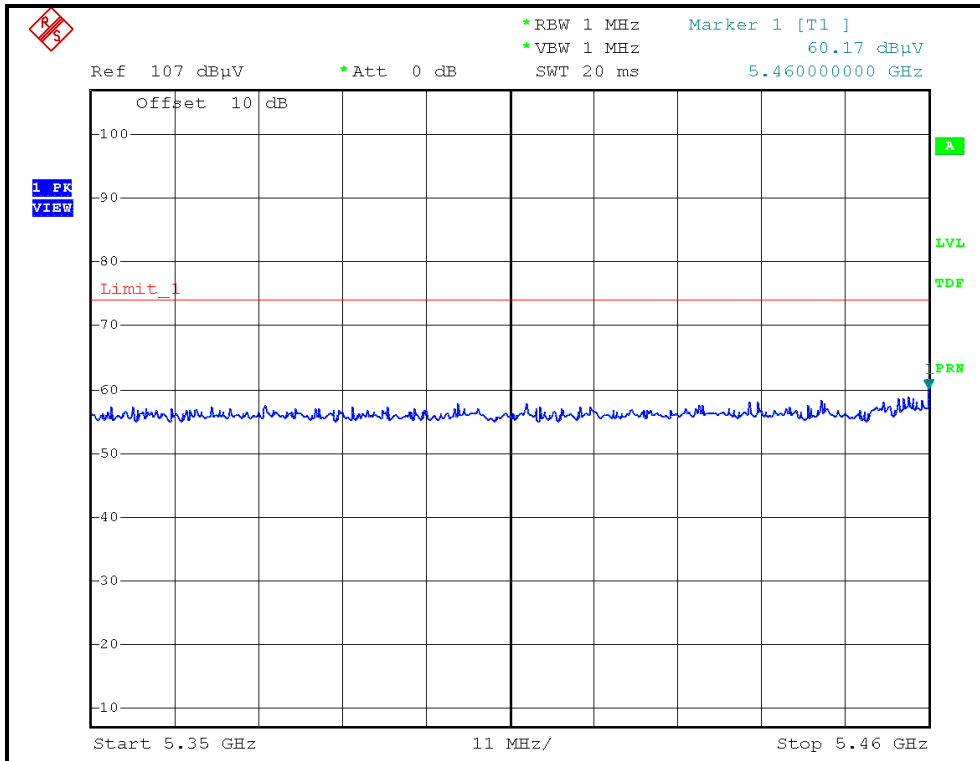
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH9, VERTICAL)





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DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	#3513.30	43.82 PK	68.30	-24.48	1.28 H	15	10.87	32.95
2	4710.60	55.36 PK	74.00	-18.64	1.26 H	41	18.88	36.48
3	4710.60	43.11 AV	54.00	-10.89	1.26 H	41	6.63	36.48
4	*5270.00	115.20 PK			1.24 H	39	77.94	37.26
5	*5270.00	104.30 AV			1.24 H	39	67.04	37.26
6	#7026.60	52.65 PK	68.30	-15.65	1.61 H	51	9.49	43.16
7	#10540.00	54.94 PK	68.30	-13.36	1.65 H	273	8.16	46.78
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	#3513.30	43.70 PK	68.30	-24.60	1.04 V	44	10.75	32.95
2	4708.00	55.85 PK	74.00	-18.15	1.31 V	324	19.37	36.48
3	4708.00	43.15 AV	54.00	-10.85	1.31 V	324	6.67	36.48
4	*5270.00	120.50 PK			1.32 V	353	83.24	37.26
5	*5270.00	109.90 AV			1.32 V	353	72.64	37.26
6	#7026.60	52.30 PK	68.30	-16.00	1.06 V	29	9.14	43.16
7	#10540.00	54.40 PK	68.30	-13.90	1.02 V	41	7.62	46.78

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	#3540.00	43.93 PK	68.30	-24.37	1.25 H	12	10.90	33.03
2	*5310.00	108.20 PK			1.26 H	39	70.94	37.26
3	*5310.00	98.40 AV			1.26 H	39	61.14	37.26
4	5350.00	60.60 PK	74.00	-13.40	1.21 H	35	23.34	37.26
5	5350.00	47.96 AV	54.00	-6.04	1.21 H	35	10.70	37.26
6	#7080.00	53.19 PK	68.30	-15.11	1.63 H	66	10.04	43.15
7	10620.00	54.89 PK	74.00	-19.11	1.66 H	275	8.04	46.85
8	10620.00	41.45 AV	54.00	-12.55	1.66 H	275	-5.40	46.85

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	#3540.00	43.40 PK	68.30	-24.90	1.02 V	46	10.37	33.03
2	*5310.00	113.75 PK			1.31 V	352	76.49	37.26
3	*5310.00	103.24 AV			1.31 V	352	65.98	37.26
4	5350.00	72.10 PK	74.00	-1.90	1.31 V	356	34.84	37.26
5	5350.00	52.89 AV	54.00	-1.11	1.31 V	356	15.63	37.26
6	#7080.00	52.90 PK	68.30	-15.40	1.04 V	29	9.75	43.15
7	10620.00	54.40 PK	74.00	-19.60	1.01 V	41	7.55	46.85
8	10620.00	41.20 AV	54.00	-12.80	1.01 V	41	-5.65	46.85

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	3673.30	43.95 PK	74.00	-30.05	1.29 H	18	10.52	33.43
2	3673.30	30.77 AV	54.00	-23.23	1.29 H	18	-2.66	33.43
3	5460.00	57.25 PK	74.00	-16.75	1.21 H	34	19.99	37.26
4	5460.00	44.77 AV	54.00	-9.23	1.21 H	34	7.51	37.26
5	#5470.00	62.10 PK	68.30	-6.20	1.21 H	34	24.84	37.26
6	*5510.00	104.20 PK			1.21 H	37	66.91	37.29
7	*5510.00	93.10 AV			1.21 H	37	55.81	37.29
8	7346.60	52.83 PK	74.00	-21.17	1.62 H	63	9.70	43.13
9	7346.60	39.75 AV	54.00	-14.25	1.62 H	63	-3.38	43.13
10	11020.00	54.96 PK	74.00	-19.04	1.60 H	277	7.81	47.15
11	11020.00	41.38 AV	54.00	-12.62	1.60 H	277	-5.77	47.15

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	3673.30	43.40 PK	74.00	-30.60	1.03 V	29	9.97	33.43
2	3673.30	30.50 AV	54.00	-23.50	1.03 V	29	-2.93	33.43
3	5460.00	62.98 PK	74.00	-11.02	1.26 V	359	25.72	37.26
4	5460.00	45.08 AV	54.00	-8.92	1.26 V	359	7.82	37.26
5	#5470.00	67.70 PK	68.30	-0.60	1.25 V	347	30.44	37.26
6	*5510.00	109.38 PK			1.37 V	358	72.09	37.29
7	*5510.00	98.62 AV			1.37 V	358	61.33	37.29
8	7346.60	52.40 PK	74.00	-21.60	1.02 V	44	9.27	43.13
9	7346.60	39.20 AV	54.00	-14.80	1.02 V	44	-3.93	43.13
10	11020.00	54.40 PK	74.00	-19.60	1.06 V	43	7.25	47.15
11	11020.00	41.20 AV	54.00	-12.80	1.06 V	43	-5.95	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

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	3726.60	43.95 PK	74.00	-30.05	1.32 H	341	10.36	33.59
2	3726.60	30.82 AV	54.00	-23.18	1.32 H	341	-2.77	33.59
3	*5590.00	116.40 PK			1.20 H	37	78.88	37.52
4	*5590.00	105.60 AV			1.20 H	37	68.08	37.52
5	7453.30	52.93 PK	74.00	-21.07	1.60 H	59	9.81	43.12
6	7453.30	39.81 AV	54.00	-14.19	1.60 H	59	-3.31	43.12
7	11180.00	56.21 PK	74.00	-17.79	1.65 H	281	9.03	47.18
8	11180.00	42.53 AV	54.00	-11.47	1.65 H	281	-4.65	47.18
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	3726.60	43.40 PK	74.00	-30.60	1.04 V	43	9.81	33.59
2	3726.60	30.40 AV	54.00	-23.60	1.04 V	43	-3.19	33.59
3	*5590.00	121.83 PK			1.35 V	1	84.31	37.52
4	*5590.00	110.77 AV			1.35 V	1	73.25	37.52
5	7453.30	52.40 PK	74.00	-21.60	1.02 V	42	9.28	43.12
6	7453.30	39.20 AV	54.00	-14.80	1.02 V	42	-3.92	43.12
7	11180.00	55.40 PK	74.00	-18.60	1.01 V	41	8.22	47.18
8	11180.00	42.10 AV	54.00	-11.90	1.01 V	41	-5.08	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26.0deg. C, 60.0%RH 965hPa	TESTED BY	Eric Lee

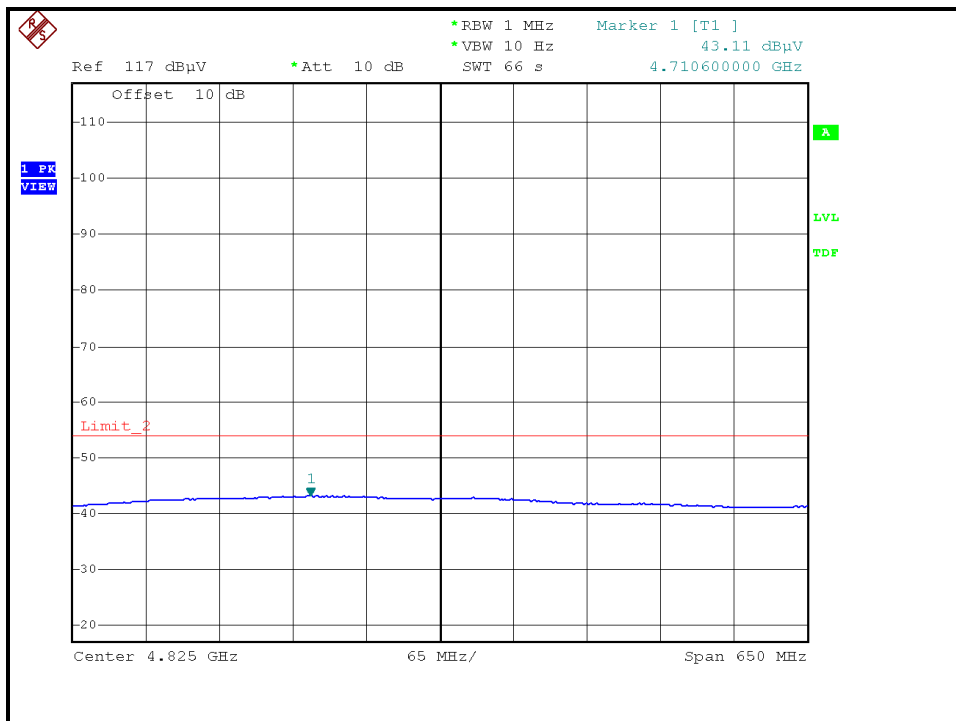
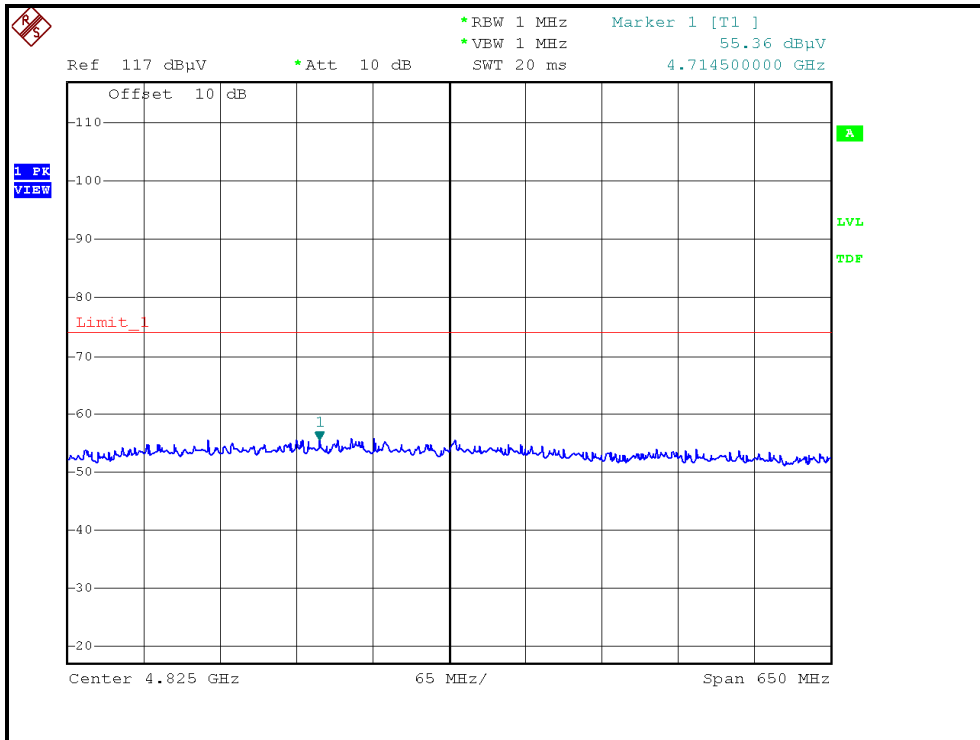
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3780.00	43.82 PK	74.00	-30.18	1.30 H	0	10.06	33.76
2	3780.00	30.75 AV	54.00	-23.25	1.30 H	0	-3.01	33.76
3	*5670.00	109.20 PK			1.21 H	43	71.46	37.74
4	*5670.00	99.30 AV			1.21 H	43	61.56	37.74
5	#5725.00	62.40 PK	68.30	-5.90	1.20 H	39	24.50	37.90
6	7560.00	52.62 PK	74.00	-21.38	1.61 H	51	9.39	43.23
7	7560.00	39.77 AV	54.00	-14.23	1.61 H	51	-3.46	43.23
8	11340.00	55.65 PK	74.00	-18.35	1.65 H	296	8.45	47.20
9	11340.00	42.15 AV	54.00	-11.85	1.65 H	296	-5.05	47.20
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	3780.00	43.30 PK	74.00	-30.70	1.04 V	41	9.54	33.76
2	3780.00	30.20 AV	54.00	-23.80	1.04 V	41	-3.56	33.76
3	*5670.00	114.67 PK			1.31 V	353	76.93	37.74
4	*5670.00	104.43 AV			1.31 V	353	66.69	37.74
5	#5725.00	67.52 PK	68.30	-0.78	1.31 V	352	29.62	37.90
6	7560.00	52.30 PK	74.00	-21.70	1.03 V	29	9.07	43.23
7	7560.00	39.40 AV	54.00	-14.60	1.03 V	29	-3.83	43.23
8	11340.00	55.40 PK	74.00	-18.60	1.02 V	32	8.20	47.20
9	11340.00	42.10 AV	54.00	-11.90	1.02 V	32	-5.10	47.20

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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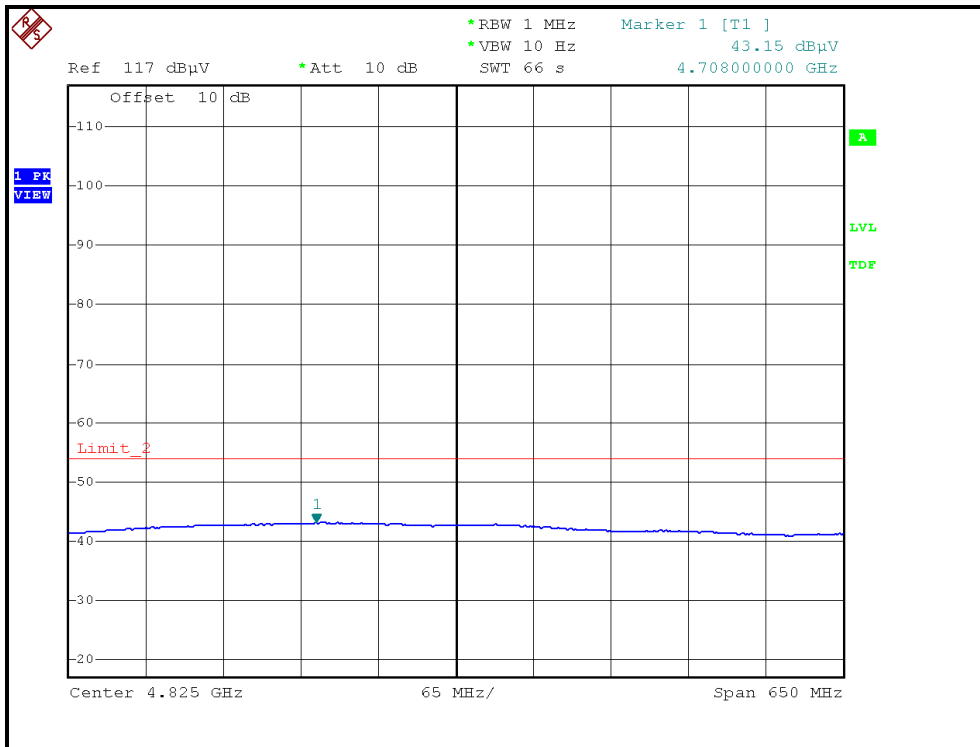
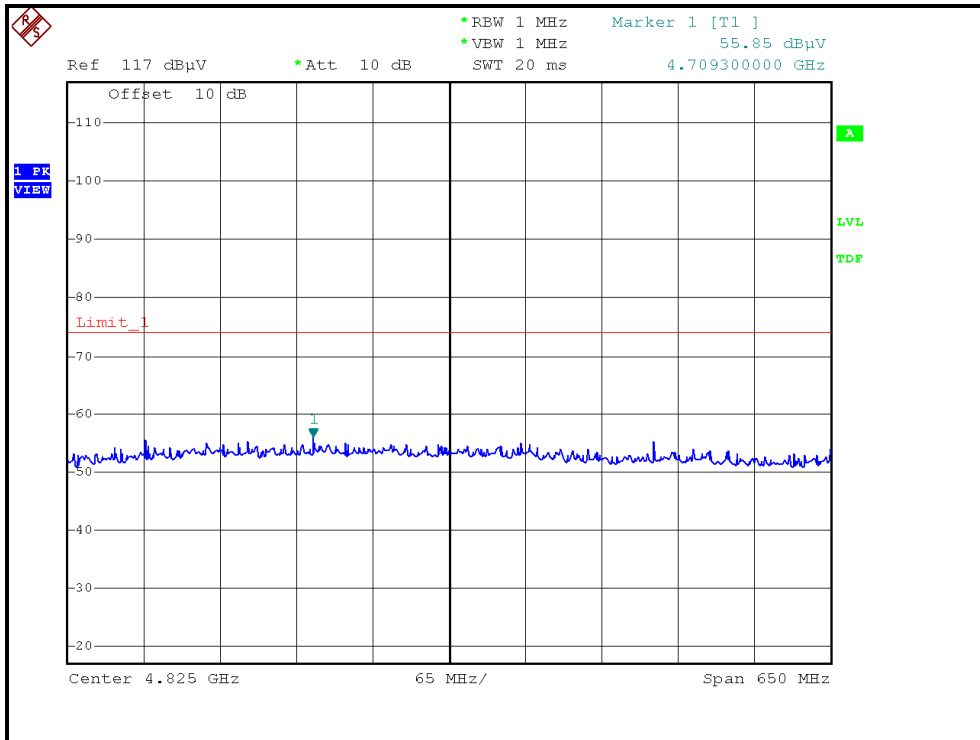
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH3, HORIZONTAL)





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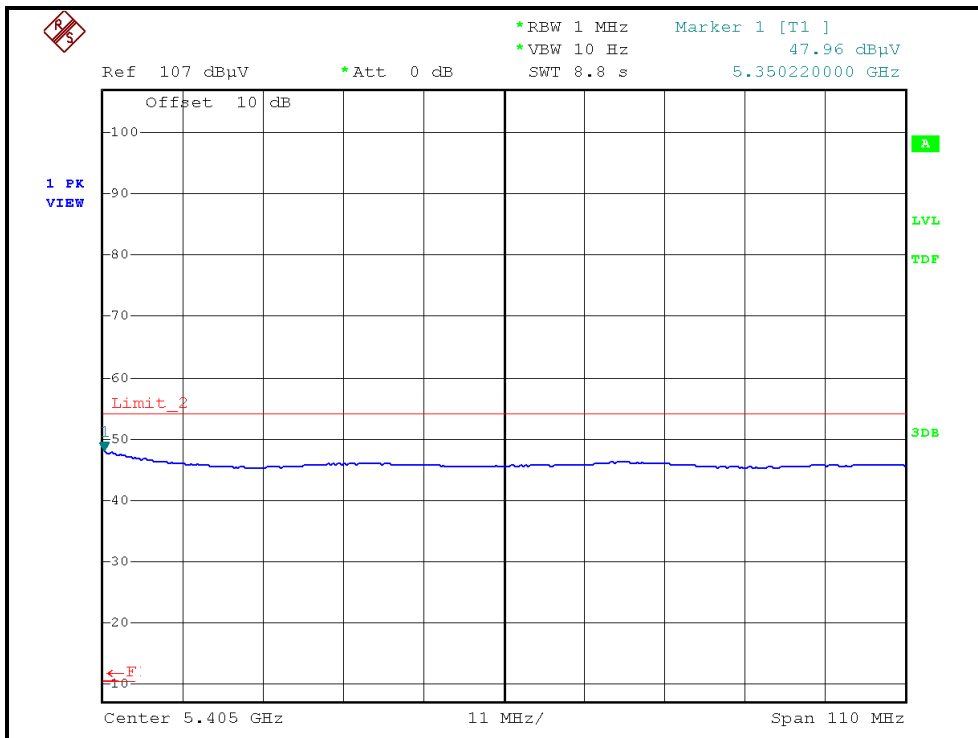
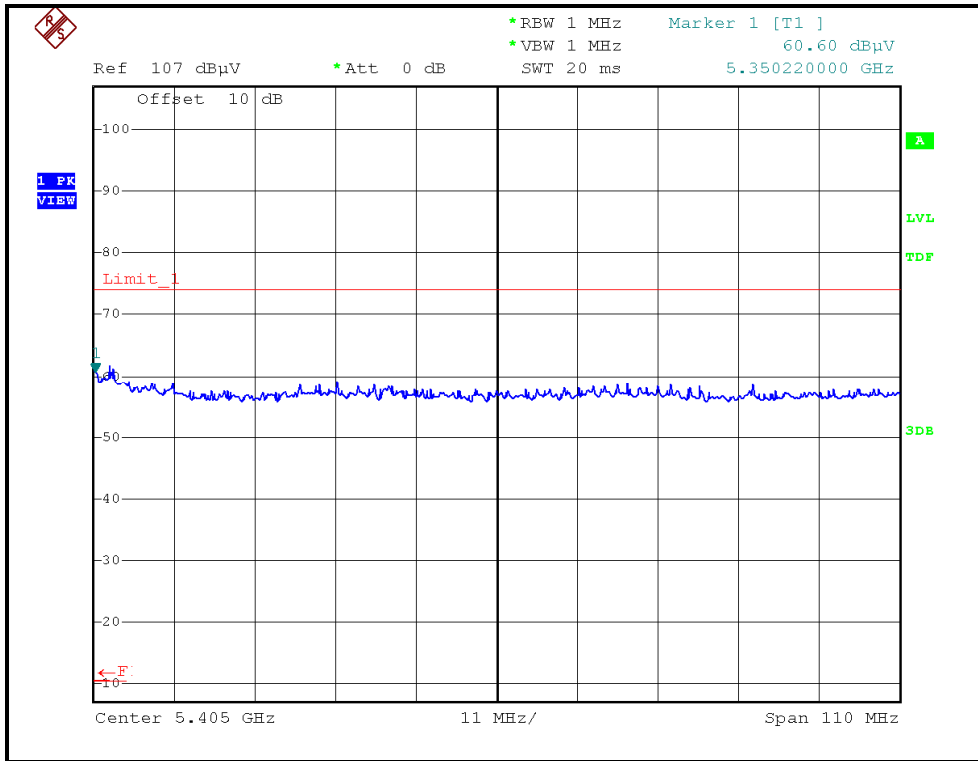
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH3, VERTICAL)





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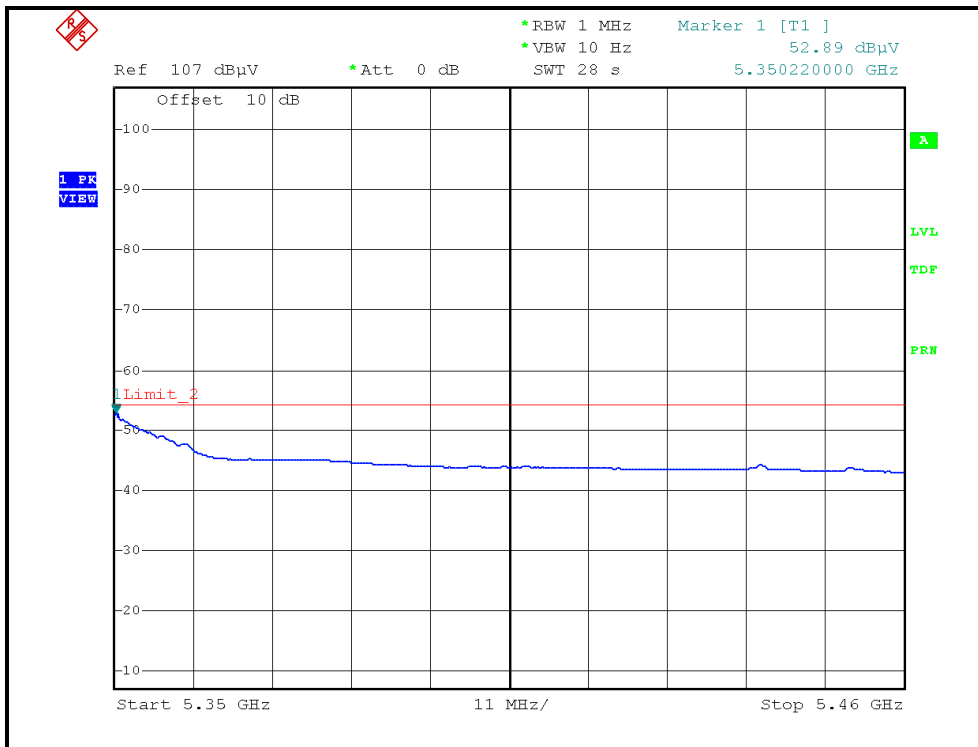
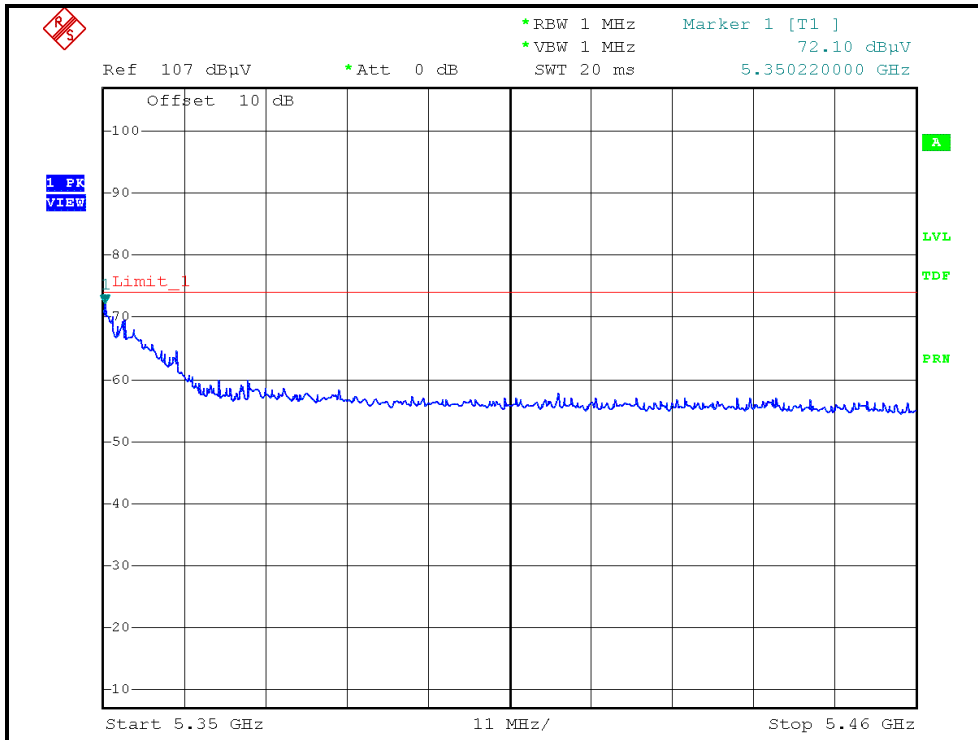
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, HORIZONTAL)





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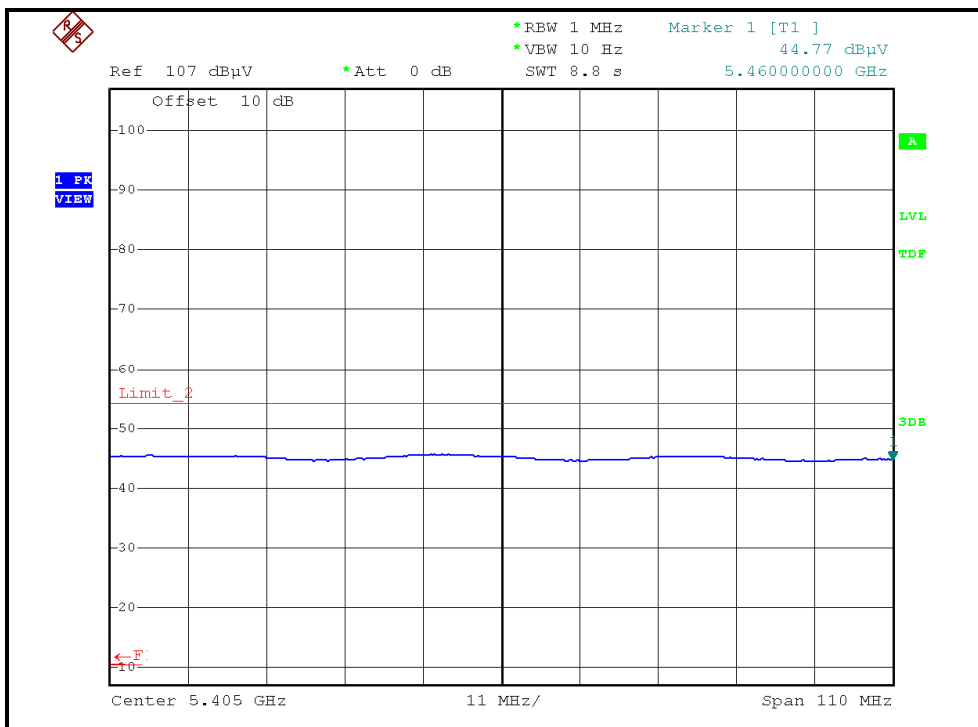
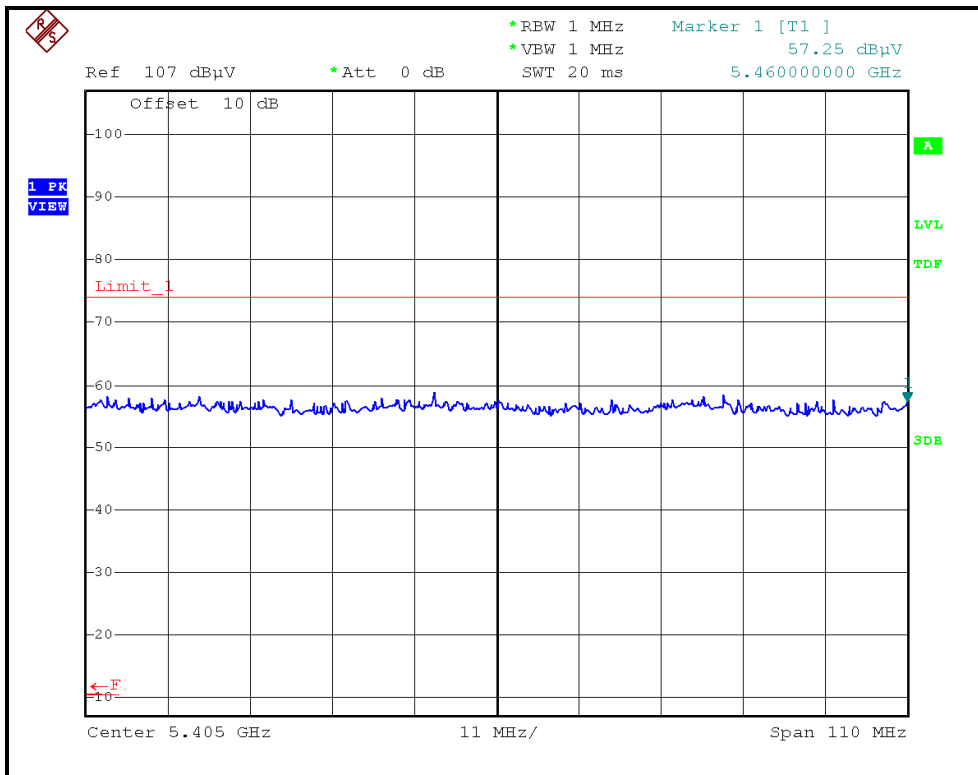
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, VERTICAL)





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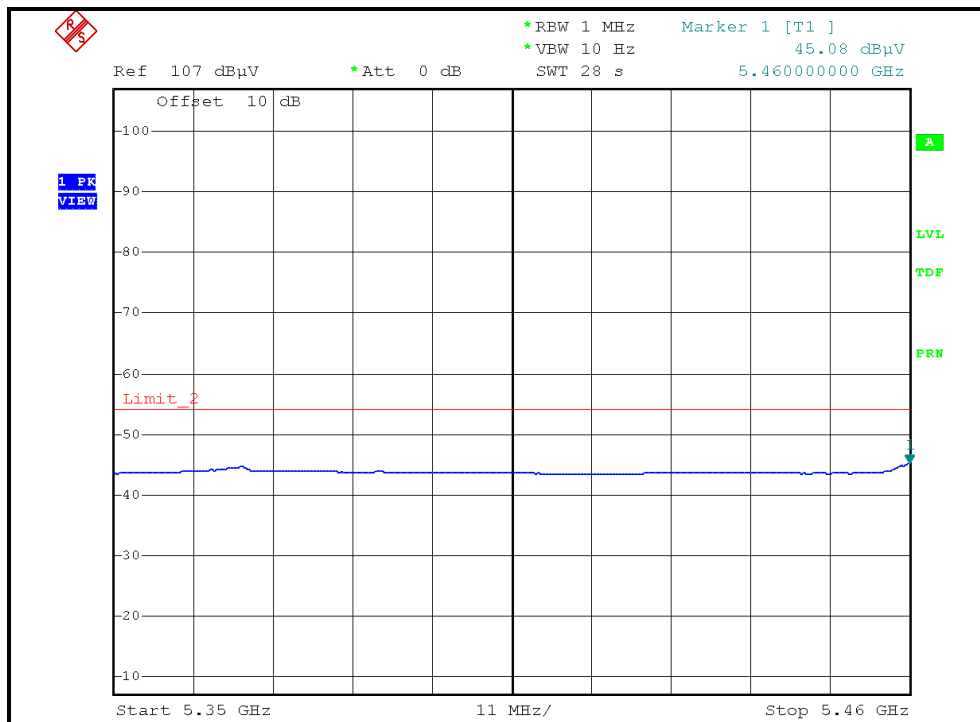
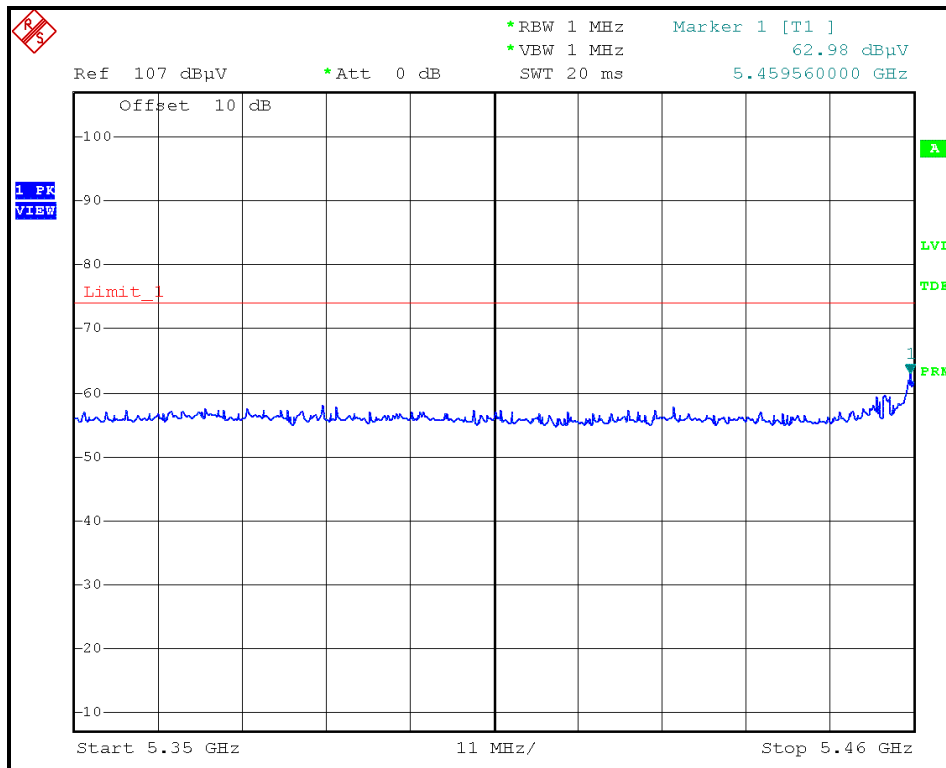
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, VERTICAL)



4.2.9 TEST RESULTS – ANTENNA 5

BELOW 1GHz WORST-CASE DATA : DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30.0deg. C, 55.0%RH 965hPa	TESTED BY	Frank Liu

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	125.00	30.25 QP	43.50	-13.25	1.41 H	325	17.18	13.07
2	250.00	35.52 QP	46.00	-10.48	1.21 H	253	21.27	14.25
3	375.00	38.43 QP	46.00	-7.57	1.10 H	335	19.62	18.81
4	650.00	43.56 QP	46.00	-2.44	1.07 H	269	18.03	25.53
5	750.00	35.43 QP	46.00	-10.57	1.09 H	258	8.52	26.91
6	875.00	37.86 QP	46.00	-8.14	1.08 H	127	8.57	29.29
7	1000.00	39.43 QP	54.00	-14.57	1.04 H	163	8.69	30.74
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	57.21	34.74 QP	40.00	-5.26	1.00 V	253	21.05	13.69
2	125.00	31.53 QP	43.50	-11.97	1.00 V	163	18.46	13.07
3	250.00	29.54 QP	46.00	-16.46	1.00 V	68	15.29	14.25
4	375.00	40.74 QP	46.00	-5.26	1.04 V	256	21.93	18.81
5	600.00	38.26 QP	46.00	-7.74	1.00 V	258	13.22	25.04
6	650.00	40.58 QP	46.00	-5.42	1.00 V	242	15.05	25.53

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	38.12 PK	68.30	-30.18	1.21 H	351	5.19	32.93
2	4731.40	54.28 PK	74.00	-19.72	1.26 H	351	17.74	36.54
3	4731.40	43.08 AV	54.00	-10.92	1.26 H	351	6.54	36.54
4	*5260.00	106.30 PK			1.21 H	334	69.04	37.26
5	*5260.00	97.40 AV			1.21 H	334	60.14	37.26
6	#7013.30	52.13 PK	68.30	-16.17	1.26 H	352	8.97	43.16
7	#10520.00	55.42 PK	68.30	-12.88	1.20 H	327	8.65	46.77

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	#3506.60	38.72 PK	68.30	-29.58	1.48 V	4	5.79	32.93
2	4715.80	55.86 PK	74.00	-18.14	1.06 V	13	19.36	36.50
3	4715.80	43.06 AV	54.00	-10.94	1.06 V	13	6.56	36.50
4	*5260.00	118.94 PK			1.07 V	5	81.68	37.26
5	*5260.00	108.21 AV			1.07 V	5	70.95	37.26
6	#7013.30	52.45 PK	68.30	-15.85	1.31 V	5	9.29	43.16
7	#10520.00	55.65 PK	68.30	-12.65	1.29 V	8	8.88	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	38.24 PK	68.30	-30.06	1.24 H	342	5.23	33.01
2	*5300.00	106.10 PK			1.20 H	319	68.84	37.26
3	*5300.00	95.30 AV			1.20 H	319	58.04	37.26
4	#7066.60	51.29 PK	68.30	-17.01	1.21 H	333	8.14	43.15
5	10600.00	57.29 PK	74.00	-16.71	1.20 H	356	10.46	46.83
6	10600.00	43.11 AV	54.00	-10.89	1.20 H	356	-3.72	46.83
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	#3533.30	39.11 PK	68.30	-29.19	1.20 V	12	6.10	33.01
2	*5300.00	118.54 PK			1.04 V	2	81.28	37.26
3	*5300.00	106.79 AV			1.04 V	2	69.53	37.26
4	#7066.60	51.69 PK	68.30	-16.61	1.38 V	38	8.54	43.15
5	10600.00	57.65 PK	74.00	-16.35	1.19 V	5	10.82	46.83
6	10600.00	43.55 AV	54.00	-10.45	1.19 V	5	-3.28	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	39.24 PK	68.30	-29.06	1.24 H	331	6.19	33.05
2	*5320.00	106.20 PK			1.24 H	312	68.94	37.26
3	*5320.00	96.40 AV			1.24 H	312	59.14	37.26
4	5350.00	55.76 PK	74.00	-18.24	1.20 H	338	18.50	37.26
5	5350.00	44.20 AV	54.00	-9.80	1.20 H	338	6.94	37.26
6	#7093.30	52.29 PK	68.30	-16.01	1.20 H	342	9.14	43.15
7	10640.00	58.12 PK	74.00	-15.88	1.21 H	332	11.26	46.86
8	10640.00	43.98 AV	54.00	-10.02	1.21 H	332	-2.88	46.86
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	#3546.60	40.22 PK	68.30	-28.08	1.22 V	65	7.17	33.05
2	*5320.00	118.82 PK			1.03 V	6	81.56	37.26
3	*5320.00	107.27 AV			1.03 V	6	70.01	37.26
4	5350.00	59.46 PK	74.00	-14.54	1.04 V	3	22.20	37.26
5	5350.00	46.09 AV	54.00	-7.91	1.04 V	3	8.83	37.26
6	#7093.30	52.71 PK	68.30	-15.59	1.47 V	8	9.56	43.15
7	10640.00	58.65 PK	74.00	-15.35	1.19 V	48	11.79	46.86
8	10640.00	44.50 AV	54.00	-9.50	1.19 V	48	-2.36	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	43.02 PK	74.00	-30.98	1.20 H	334	9.61	33.41
2	3666.60	31.10 AV	54.00	-22.90	1.20 H	334	-2.31	33.41
3	5460.00	56.21 PK	74.00	-17.79	1.21 H	342	18.95	37.26
4	5460.00	44.42 AV	54.00	-9.58	1.21 H	342	7.16	37.26
5	#5470.00	59.83 PK	68.30	-8.47	1.21 H	332	22.57	37.26
6	*5500.00	105.40 PK			1.24 H	332	68.14	37.26
7	*5500.00	94.30 AV			1.24 H	332	57.04	37.26
8	7466.60	50.24 PK	74.00	-23.76	1.24 H	335	7.12	43.12
9	7466.60	39.84 AV	54.00	-14.16	1.24 H	335	-3.28	43.12
10	11000.00	57.12 PK	74.00	-16.88	1.26 H	331	9.97	47.15
11	11000.00	43.14 AV	54.00	-10.86	1.26 H	331	-4.01	47.15

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	3666.60	43.21 PK	74.00	-30.79	1.08 V	5	9.80	33.41
2	3666.60	31.29 AV	54.00	-22.71	1.08 V	5	-2.12	33.41
3	5453.00	58.00 PK	74.00	-16.00	1.19 V	8	20.74	37.26
4	5453.00	45.26 AV	54.00	-8.74	1.19 V	8	8.00	37.26
5	#5470.00	63.32 PK	68.30	-4.98	1.20 V	2	26.06	37.26
6	*5500.00	117.24 PK			1.20 V	2	79.98	37.26
7	*5500.00	105.34 AV			1.20 V	2	68.08	37.26
8	7466.60	50.65 PK	74.00	-23.35	1.07 V	3	7.53	43.12
9	7466.60	40.14 AV	54.00	-13.86	1.07 V	3	-2.98	43.12
10	11000.00	57.50 PK	74.00	-16.50	1.29 V	31	10.35	47.15
11	11000.00	43.71 AV	54.00	-10.29	1.29 V	31	-3.44	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	42.13 PK	74.00	-31.87	1.21 H	331	8.52	33.61
2	3733.30	30.24 AV	54.00	-23.76	1.21 H	331	-3.37	33.61
3	*5600.00	109.20 PK			1.21 H	342	71.66	37.54
4	*5600.00	97.20 AV			1.21 H	342	59.66	37.54
5	7466.60	49.84 PK	74.00	-24.16	1.20 H	312	6.72	43.12
6	7466.60	39.13 AV	54.00	-14.87	1.20 H	312	-3.99	43.12
7	11200.00	57.24 PK	74.00	-16.76	1.20 H	342	10.06	47.18
8	11200.00	43.69 AV	54.00	-10.31	1.20 H	342	-3.49	47.18

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	3733.30	42.99 PK	74.00	-31.01	1.11 V	3	9.38	33.61
2	3733.30	31.09 AV	54.00	-22.91	1.11 V	3	-2.52	33.61
3	*5600.00	121.61 PK			1.10 V	1	84.07	37.54
4	*5600.00	108.92 AV			1.10 V	1	71.38	37.54
5	7466.60	50.11 PK	74.00	-23.89	1.08 V	4	6.99	43.12
6	7466.60	39.83 AV	54.00	-14.17	1.08 V	4	-3.29	43.12
7	11200.00	58.40 PK	74.00	-15.60	1.30 V	4	11.22	47.18
8	11200.00	44.71 AV	54.00	-9.29	1.30 V	4	-2.47	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

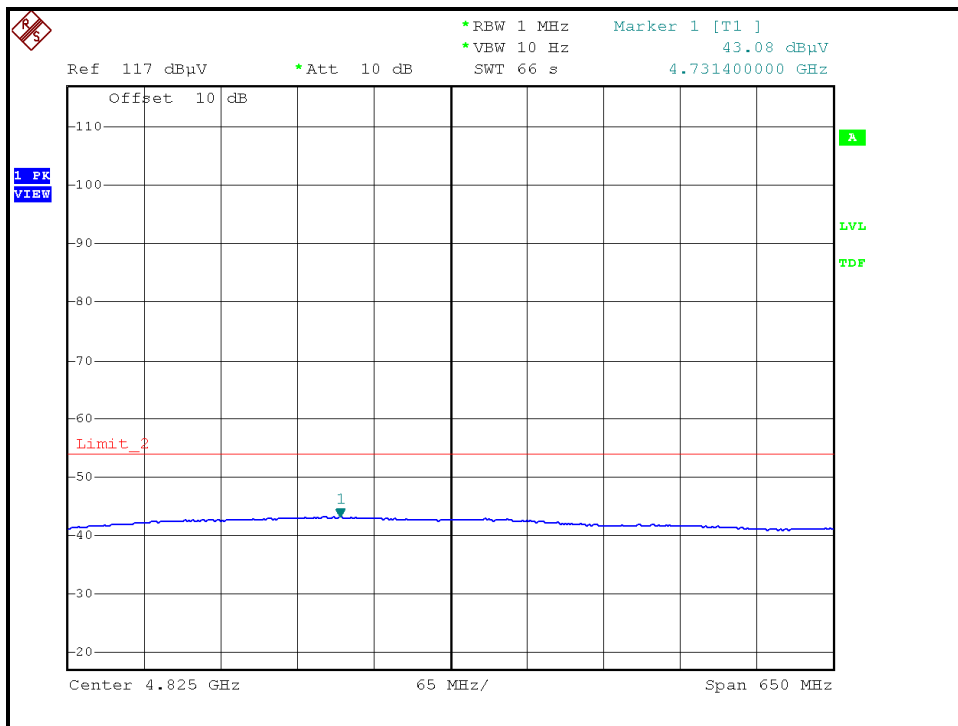
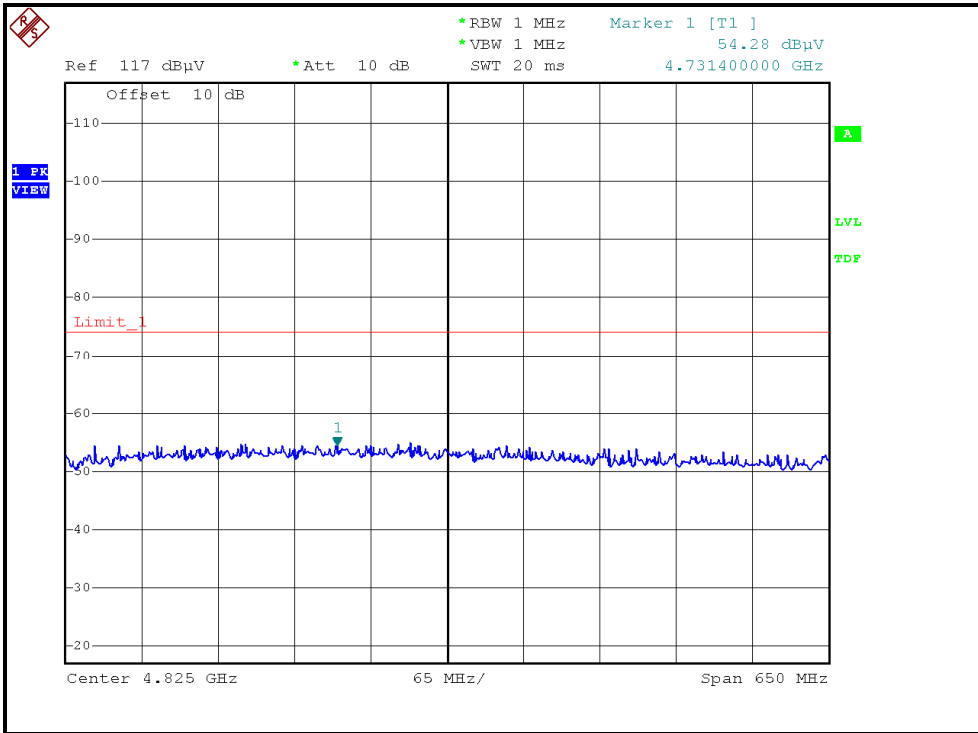
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	40.92 PK	74.00	-33.08	1.21 H	336	7.10	33.82
2	3800.00	33.24 AV	54.00	-20.76	1.21 H	336	-0.58	33.82
3	*5700.00	106.30 PK			1.20 H	334	68.47	37.83
4	*5700.00	95.60 AV			1.20 H	334	57.77	37.83
5	#5725.00	61.24 PK	68.30	-7.06	1.21 H	313	23.34	37.90
6	7600.00	49.70 PK	74.00	-24.30	1.26 H	342	6.39	43.31
7	7600.00	38.64 AV	54.00	-15.36	1.26 H	342	-4.67	43.31
8	11400.00	57.10 PK	74.00	-16.90	1.24 H	314	9.89	47.21
9	11400.00	35.20 AV	54.00	-18.80	1.24 H	314	-12.01	47.21
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	3800.00	41.19 PK	74.00	-32.81	1.39 V	6	7.37	33.82
2	3800.00	33.69 AV	54.00	-20.31	1.39 V	6	-0.13	33.82
3	*5700.00	118.11 PK			1.09 V	2	80.28	37.83
4	*5700.00	106.14 AV			1.09 V	2	68.31	37.83
5	#5725.00	67.13 PK	68.30	-1.17	1.09 V	3	29.23	37.90
6	7600.00	50.22 PK	74.00	-23.78	1.41 V	15	6.91	43.31
7	7600.00	39.08 AV	54.00	-14.92	1.41 V	15	-4.23	43.31
8	11400.00	57.41 PK	74.00	-16.59	1.11 V	9	10.20	47.21
9	11400.00	35.60 AV	54.00	-18.40	1.11 V	9	-11.61	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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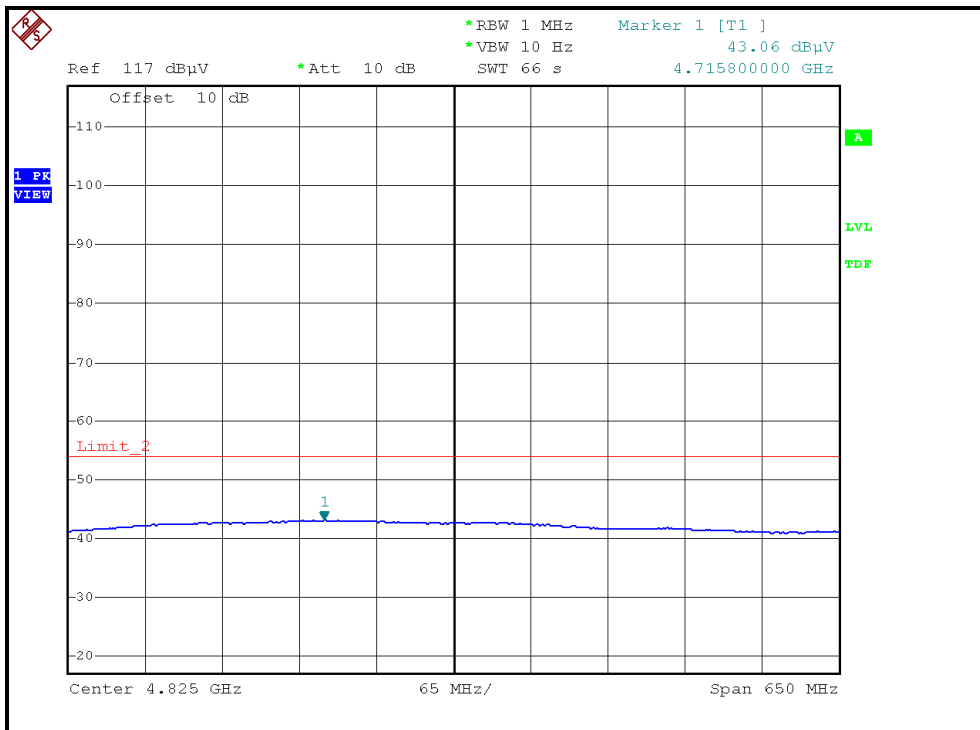
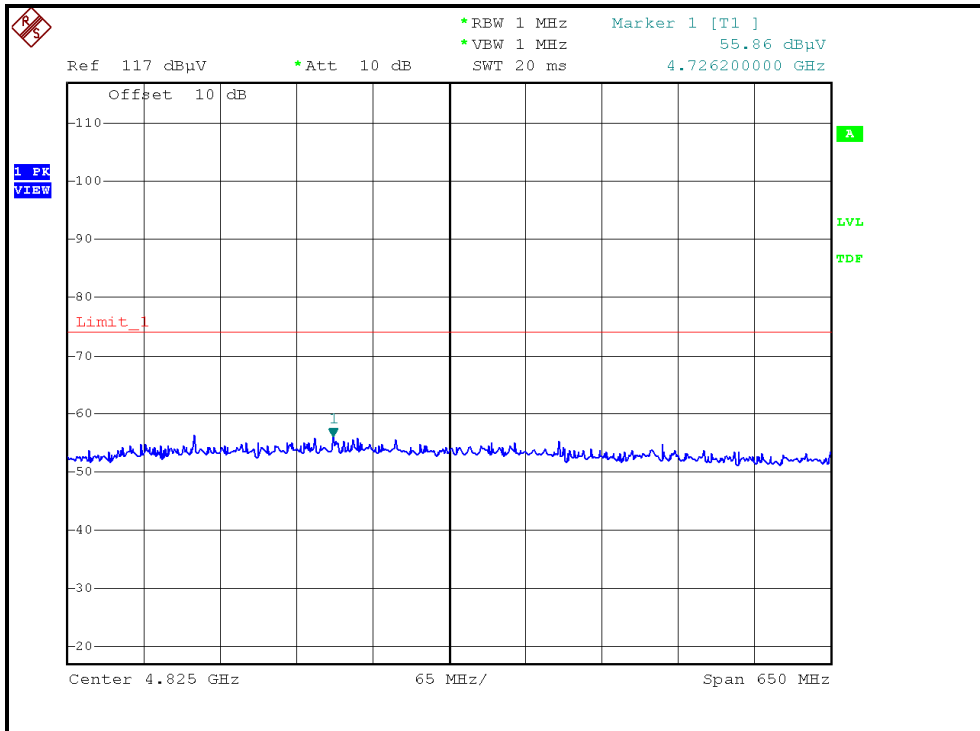
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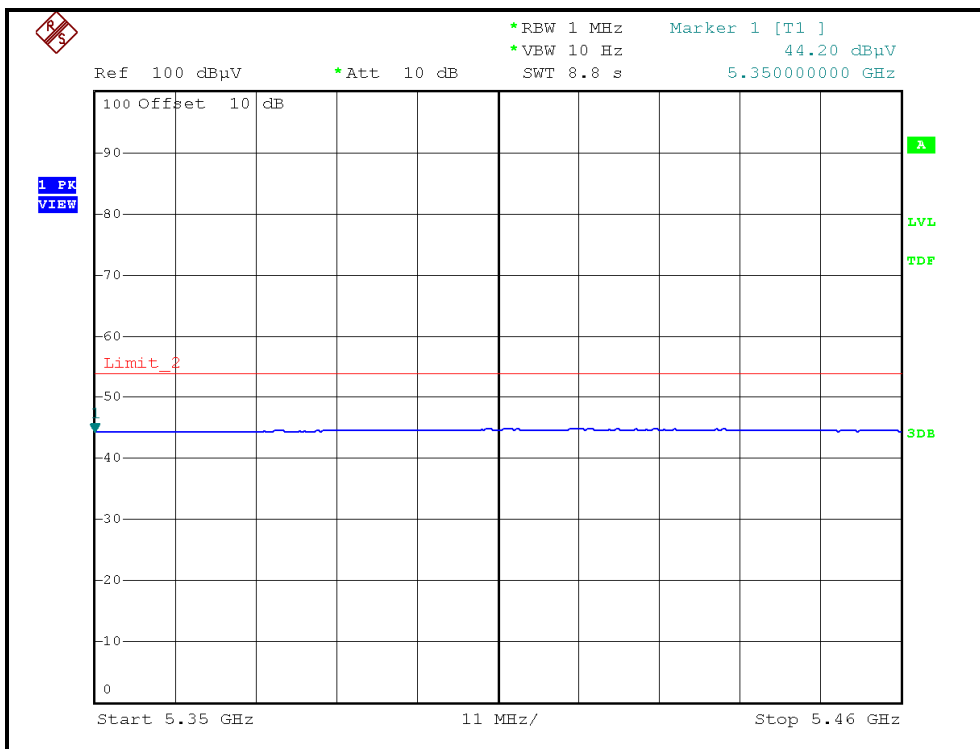
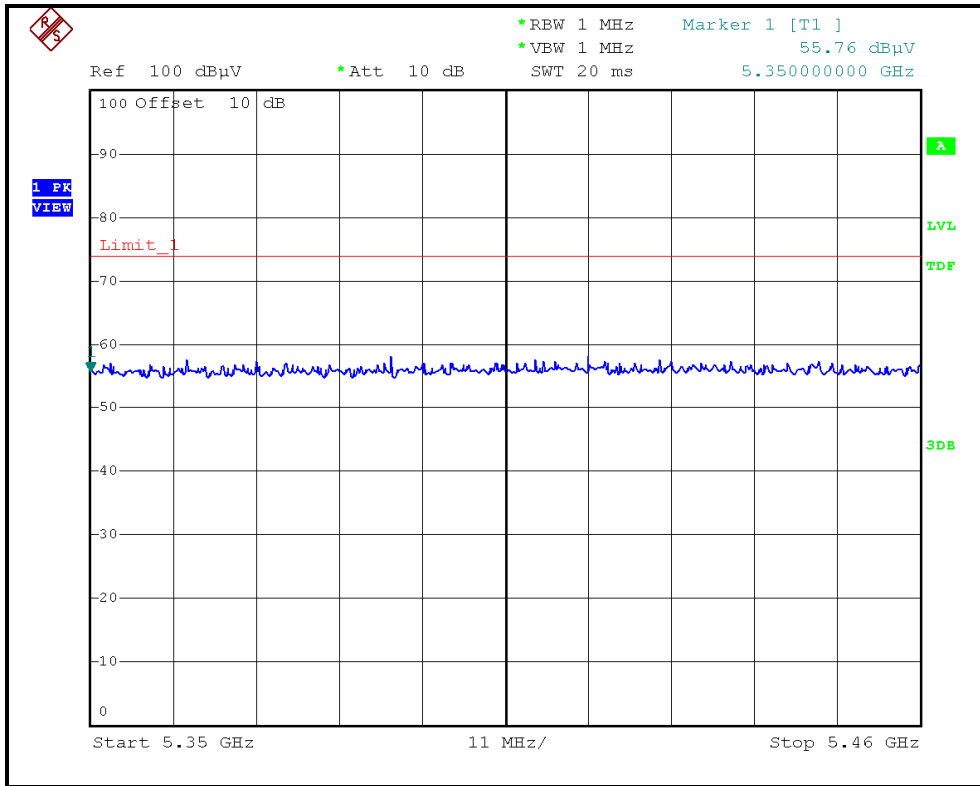
RESTRICTED BANDEDGE (802.11a MODE, CH5, VERTICAL)





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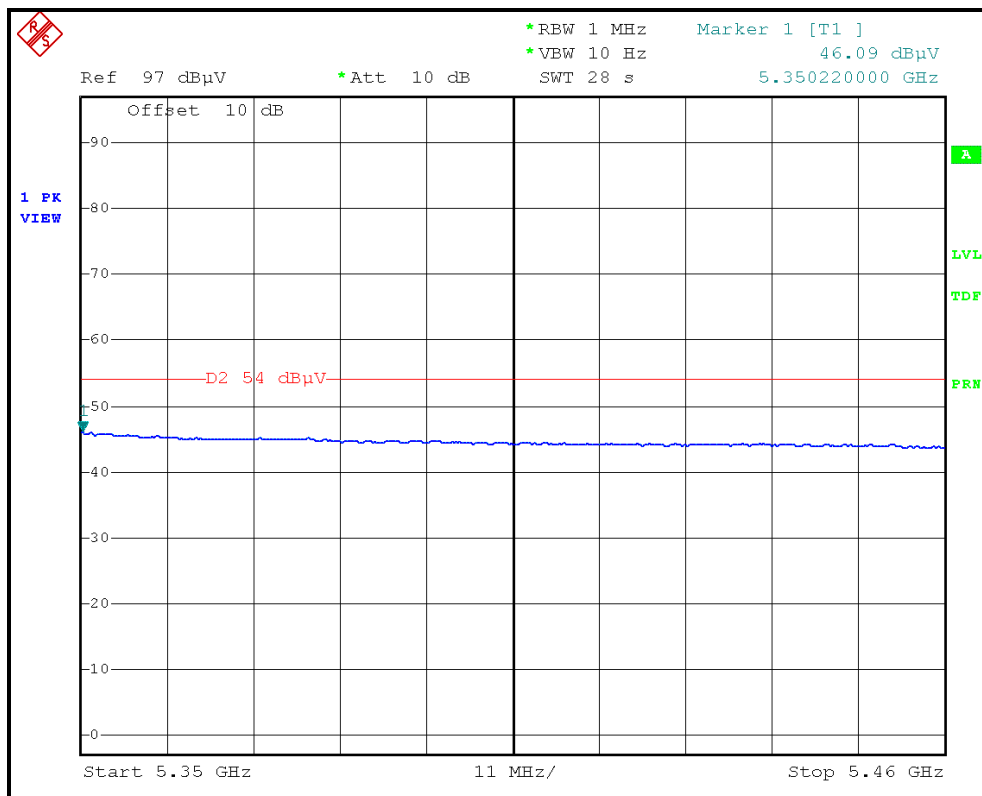
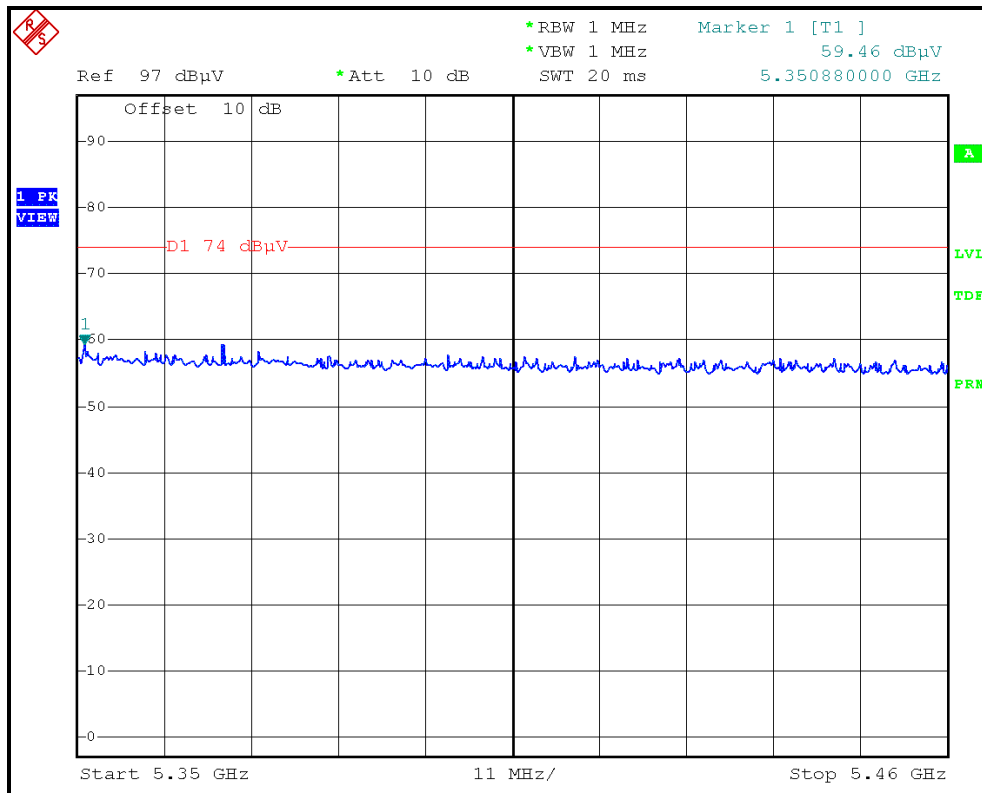
RESTRICTED BANDEDGE (802.11a MODE, CH8, HORIZONTAL)





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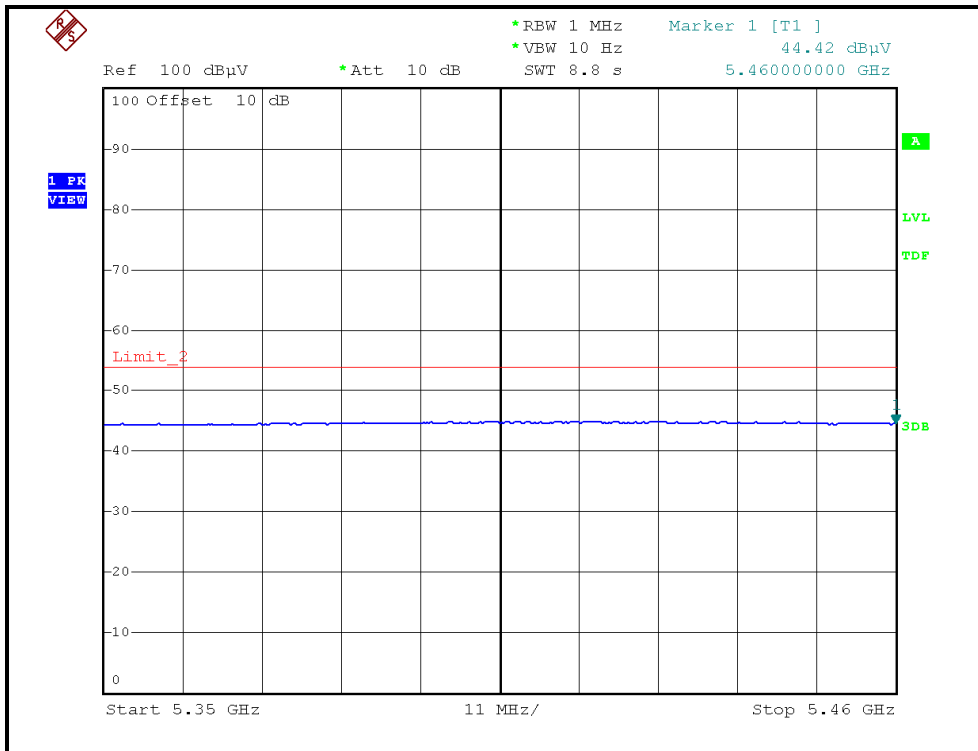
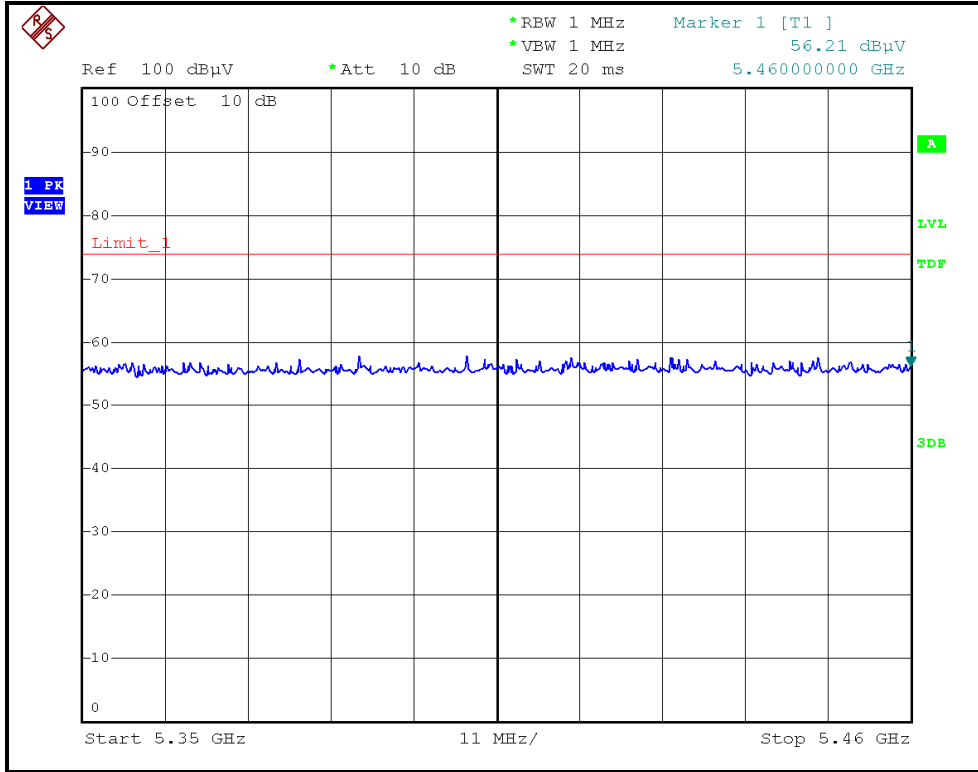
RESTRICTED BANDEDGE (802.11a MODE, CH8, VERTICAL)





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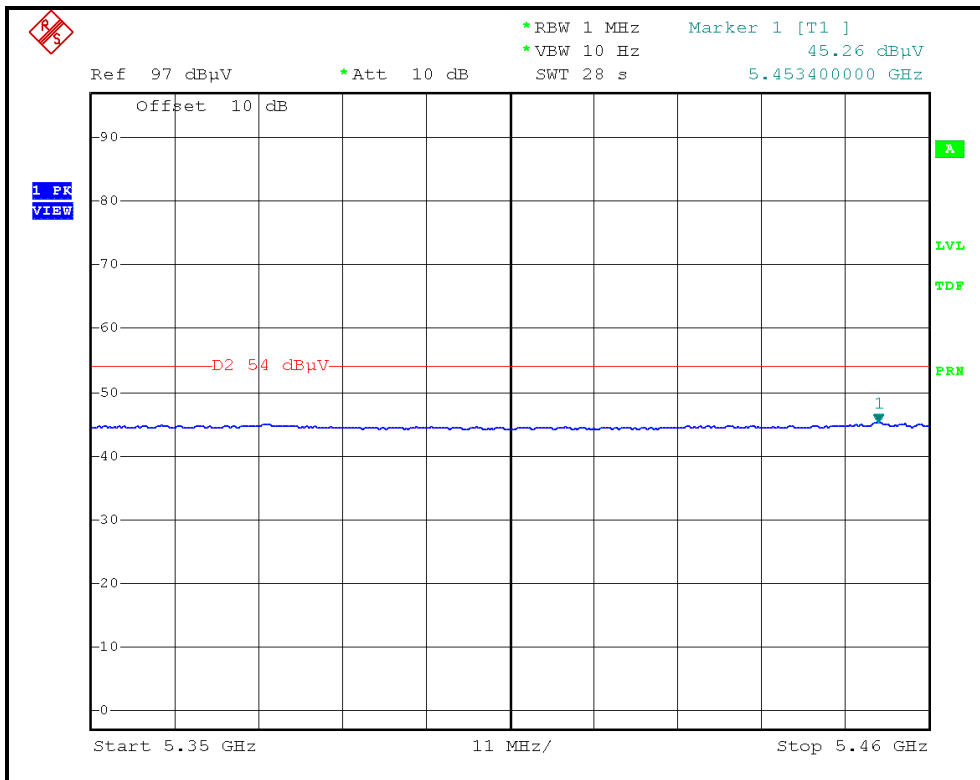
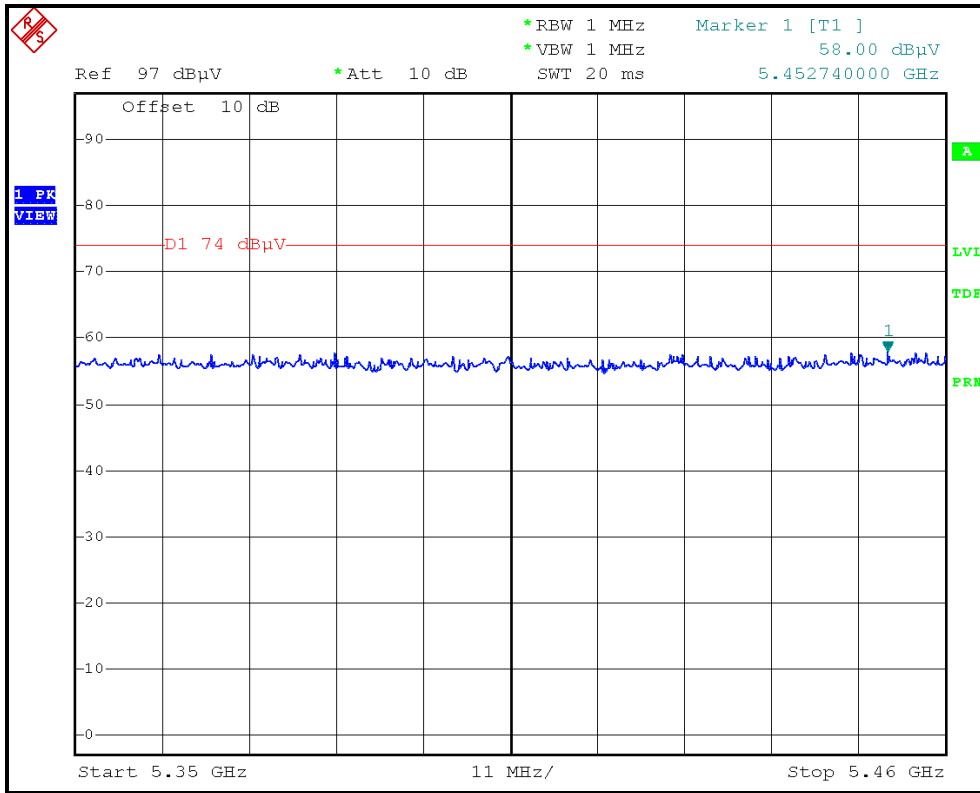
RESTRICTED BANDEGE (802.11a MODE,CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11a MODE, CH9, VERTICAL)





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DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	40.63 PK	68.30	-27.67	1.26 H	321	7.70	32.93
2	4723.60	55.13 PK	74.00	-18.87	1.23 H	321	18.61	36.52
3	4723.60	43.06 AV	54.00	-10.94	1.23 H	321	6.54	36.52
4	*5260.00	107.20 PK			1.20 H	324	69.94	37.26
5	*5260.00	97.40 AV			1.20 H	324	60.14	37.26
6	7013.30	52.60 PK	68.30	-15.70	1.27 H	324	9.44	43.16
7	#10520.00	51.64 PK	68.30	-16.66	1.20 H	329	4.87	46.77

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	#3506.60	41.47 PK	68.30	-26.83	1.09 V	2	8.54	32.93
2	4719.70	55.74 PK	74.00	-18.26	1.06 V	13	19.23	36.51
3	4719.70	43.01 AV	54.00	-10.99	1.06 V	13	6.50	36.51
4	*5260.00	119.55 PK			1.05 V	5	82.29	37.26
5	*5260.00	108.44 AV			1.05 V	5	71.18	37.26
6	7013.30	53.69 PK	68.30	-14.61	1.00 V	9	10.53	43.16
7	#10520.00	52.65 PK	68.30	-15.65	1.44 V	11	5.88	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	40.23 PK	68.30	-28.07	1.22 H	321	7.22	33.01
2	*5300.00	106.60 PK			1.21 H	342	69.34	37.26
3	*5300.00	96.30 AV			1.21 H	342	59.04	37.26
4	#7066.60	51.69 PK	68.30	-16.61	1.29 H	324	8.54	43.15
5	10600.00	54.83 PK	74.00	-19.17	1.24 H	326	8.00	46.83
6	10600.00	41.24 AV	54.00	-12.76	1.24 H	326	-5.59	46.83
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	#3533.30	41.98 PK	68.30	-26.32	1.07 V	4	8.97	33.01
2	*5300.00	118.01 PK			1.04 V	2	80.75	37.26
3	*5300.00	107.94 AV			1.04 V	2	70.68	37.26
4	#7066.60	52.45 PK	68.30	-15.85	1.09 V	3	9.30	43.15
5	10600.00	55.43 PK	74.00	-18.57	1.33 V	19	8.60	46.83
6	10600.00	42.21 AV	54.00	-11.79	1.33 V	19	-4.62	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	41.84 PK	68.30	-26.46	1.23 H	327	8.79	33.05
2	*5320.00	106.90 PK			1.20 H	331	69.64	37.26
3	*5320.00	95.20 AV			1.20 H	331	57.94	37.26
4	5350.00	55.63 PK	74.00	-18.37	1.20 H	164	18.37	37.26
5	5350.00	44.11 AV	54.00	-9.89	1.20 H	164	6.85	37.26
6	#7093.30	52.63 PK	68.30	-15.67	1.24 H	329	9.48	43.15
7	10640.00	53.29 PK	74.00	-20.71	1.24 H	326	6.43	46.86
8	10640.00	43.65 AV	54.00	-10.35	1.24 H	326	-3.21	46.86
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	#3546.60	42.29 PK	68.30	-26.01	1.09 V	5	9.24	33.05
2	*5320.00	118.78 PK			1.03 V	1	81.52	37.26
3	*5320.00	106.88 AV			1.03 V	1	69.62	37.26
4	5350.00	61.12 PK	74.00	-12.88	1.03 V	2	23.86	37.26
5	5350.00	45.96 AV	54.00	-8.04	1.03 V	2	8.70	37.26
6	#7093.30	53.40 PK	68.30	-14.90	1.10 V	6	10.25	43.15
7	10640.00	54.89 PK	74.00	-19.11	1.57 V	21	8.03	46.86
8	10640.00	42.98 AV	54.00	-11.02	1.57 V	21	-3.88	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	40.33 PK	74.00	-33.67	1.24 H	321	6.92	33.41
2	3666.60	30.64 AV	54.00	-23.36	1.24 H	321	-2.77	33.41
3	5460.00	55.76 PK	74.00	-18.24	1.26 H	324	18.50	37.26
4	5460.00	44.24 AV	54.00	-9.76	1.26 H	324	6.98	37.26
5	#5470.00	58.64 PK	68.30	-9.66	1.21 H	329	21.38	37.26
6	*5500.00	101.20 PK			1.26 H	324	63.94	37.26
7	*5500.00	90.40 AV			1.26 H	324	53.14	37.26
8	7333.30	54.64 PK	74.00	-19.36	1.21 H	319	11.51	43.13
9	7333.30	40.93 AV	54.00	-13.07	1.21 H	319	-2.20	43.13
10	11000.00	51.29 PK	74.00	-22.71	1.26 H	334	4.14	47.15
11	11000.00	40.39 AV	54.00	-13.61	1.26 H	334	-6.76	47.15

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	3666.60	41.11 PK	74.00	-32.89	1.25 V	5	7.70	33.41
2	3666.60	31.65 AV	54.00	-22.35	1.25 V	5	-1.76	33.41
3	5460.00	58.08 PK	74.00	-15.92	1.10 V	5	20.82	37.26
4	5460.00	44.48 AV	54.00	-9.52	1.10 V	5	7.22	37.26
5	#5470.00	63.77 PK	68.30	-4.53	1.10 V	4	26.51	37.26
6	*5500.00	112.43 PK			1.04 V	6	75.17	37.26
7	*5500.00	100.10 AV			1.04 V	6	62.84	37.26
8	7333.30	55.87 PK	74.00	-18.13	1.19 V	11	12.74	43.13
9	7333.30	41.29 AV	54.00	-12.71	1.19 V	11	-1.84	43.13
10	11000.00	52.86 PK	74.00	-21.14	1.42 V	6	5.71	47.15
11	11000.00	41.46 AV	54.00	-12.54	1.42 V	6	-5.69	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	41.83 PK	74.00	-32.17	1.25 H	324	8.22	33.61
2	3733.30	29.83 AV	54.00	-24.17	1.25 H	324	-3.78	33.61
3	*5600.00	101.34 PK			1.26 H	321	63.80	37.54
4	*5600.00	90.50 AV			1.26 H	321	52.96	37.54
5	7466.60	54.29 PK	74.00	-19.71	1.24 H	328	11.17	43.12
6	7466.60	42.12 AV	54.00	-11.88	1.24 H	328	-1.00	43.12
7	11200.00	53.19 PK	74.00	-20.81	1.26 H	326	6.01	47.18
8	11200.00	39.44 AV	54.00	-14.56	1.26 H	326	-7.74	47.18
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	3733.30	42.69 PK	74.00	-31.31	1.30 V	4	9.08	33.61
2	3733.30	30.78 AV	54.00	-23.22	1.30 V	4	-2.83	33.61
3	*5600.00	112.85 PK			1.05 V	3	75.31	37.54
4	*5600.00	100.23 AV			1.05 V	3	62.69	37.54
5	7466.60	55.65 PK	74.00	-18.35	1.18 V	29	12.53	43.12
6	7466.60	42.83 AV	54.00	-11.17	1.18 V	29	-0.29	43.12
7	11200.00	53.87 PK	74.00	-20.13	1.30 V	359	6.69	47.18
8	11200.00	40.55 AV	54.00	-13.45	1.30 V	359	-6.63	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

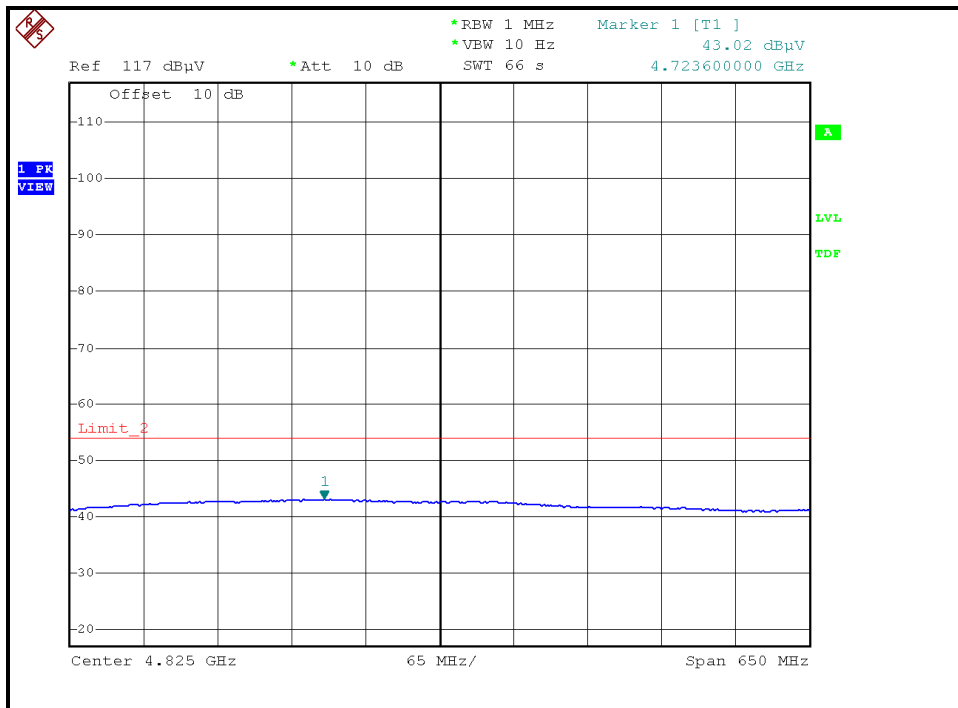
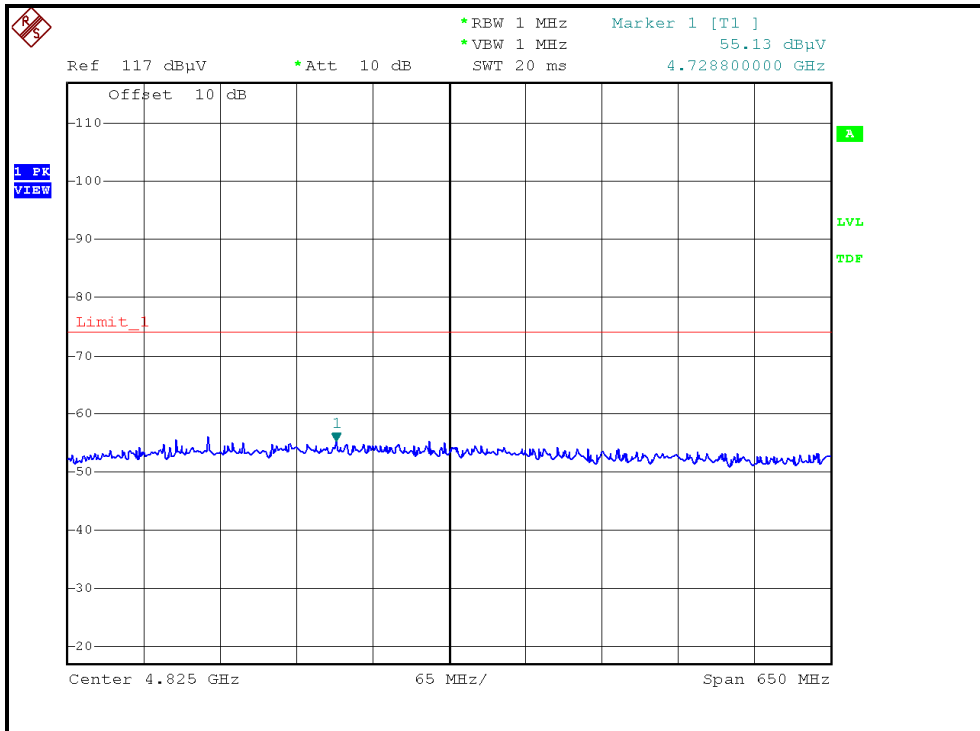
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	51.13 PK	74.00	-22.87	1.27 H	319	17.31	33.82
2	3800.00	38.24 AV	54.00	-15.76	1.27 H	319	4.42	33.82
3	*5700.00	99.40 PK			1.21 H	321	61.57	37.83
4	*5700.00	88.20 AV			1.21 H	321	50.37	37.83
5	#5725.00	62.40 PK	68.30	-5.90	1.23 H	324	24.50	37.90
6	7600.00	49.40 PK	74.00	-24.60	1.24 H	320	6.09	43.31
7	7600.00	39.20 AV	54.00	-14.80	1.24 H	320	-4.11	43.31
8	11400.00	52.74 PK	74.00	-21.26	1.24 H	326	5.53	47.21
9	11400.00	38.44 AV	54.00	-15.56	1.24 H	326	-8.77	47.21
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	3800.00	51.54 PK	74.00	-22.46	1.15 V	8	17.72	33.82
2	3800.00	39.57 AV	54.00	-14.43	1.15 V	8	5.75	33.82
3	*5700.00	110.44 PK			1.05 V	4	72.61	37.83
4	*5700.00	98.56 AV			1.05 V	4	60.73	37.83
5	#5725.00	67.80 PK	68.30	-0.50	1.05 V	4	29.90	37.90
6	7600.00	50.62 PK	74.00	-23.38	1.07 V	2	7.31	43.31
7	7600.00	40.50 AV	54.00	-13.50	1.07 V	2	-2.81	43.31
8	11400.00	53.26 PK	74.00	-20.74	1.29 V	357	6.05	47.21
9	11400.00	39.87 AV	54.00	-14.13	1.29 V	357	-7.34	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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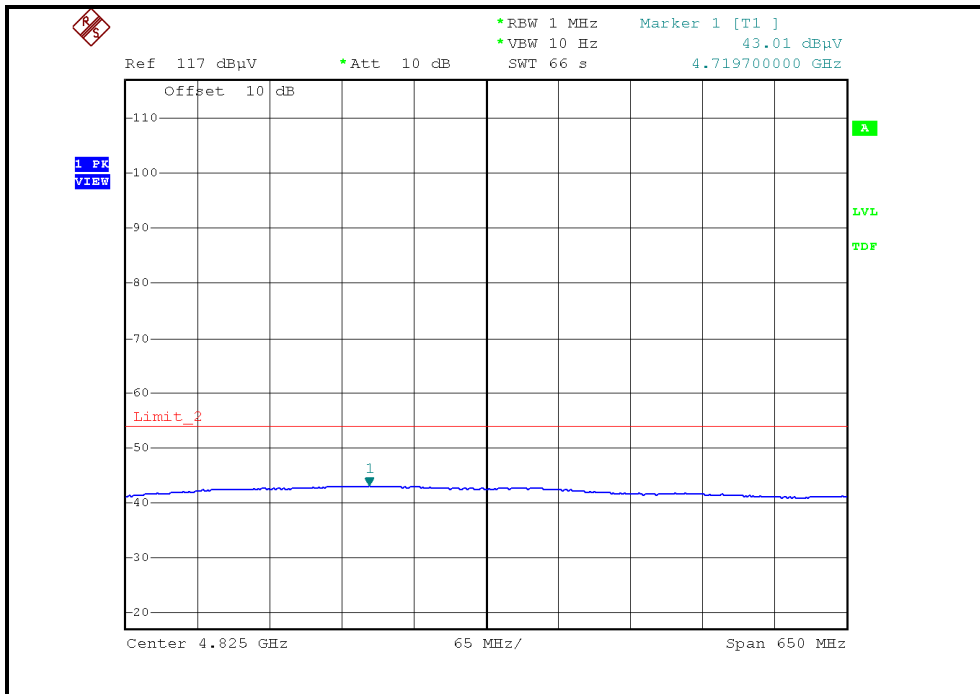
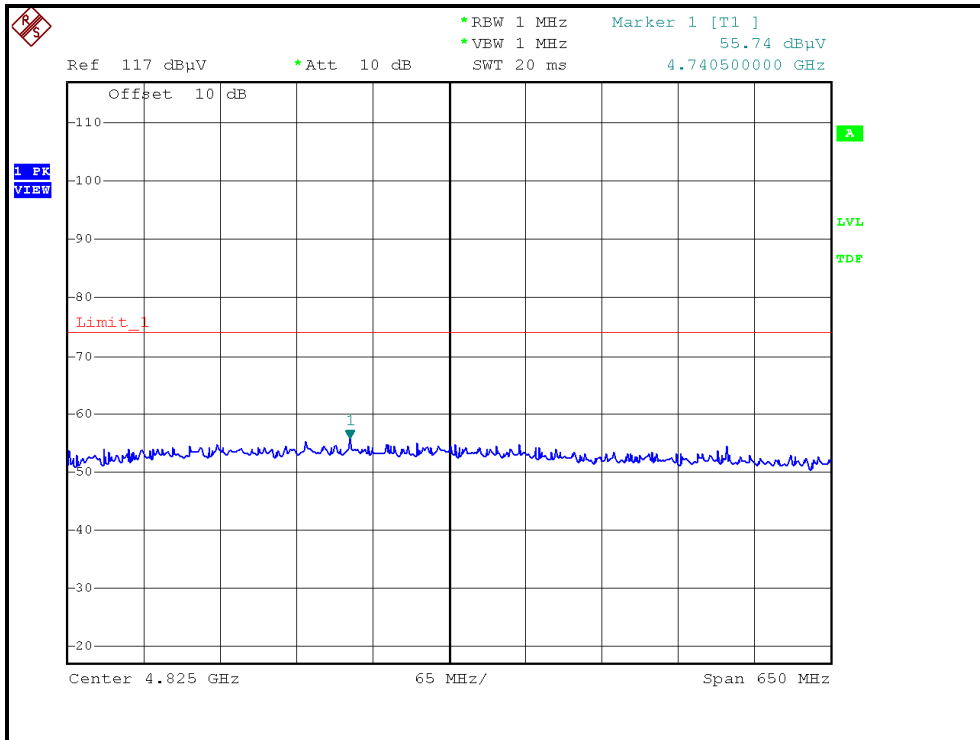
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH5, HORIZONTAL)





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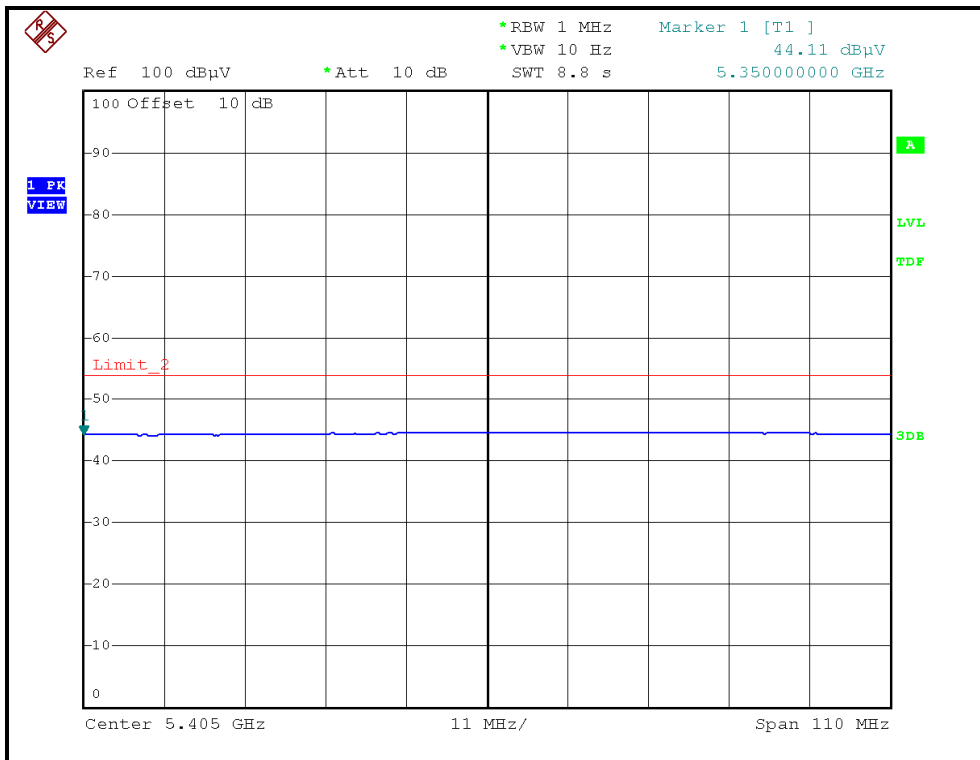
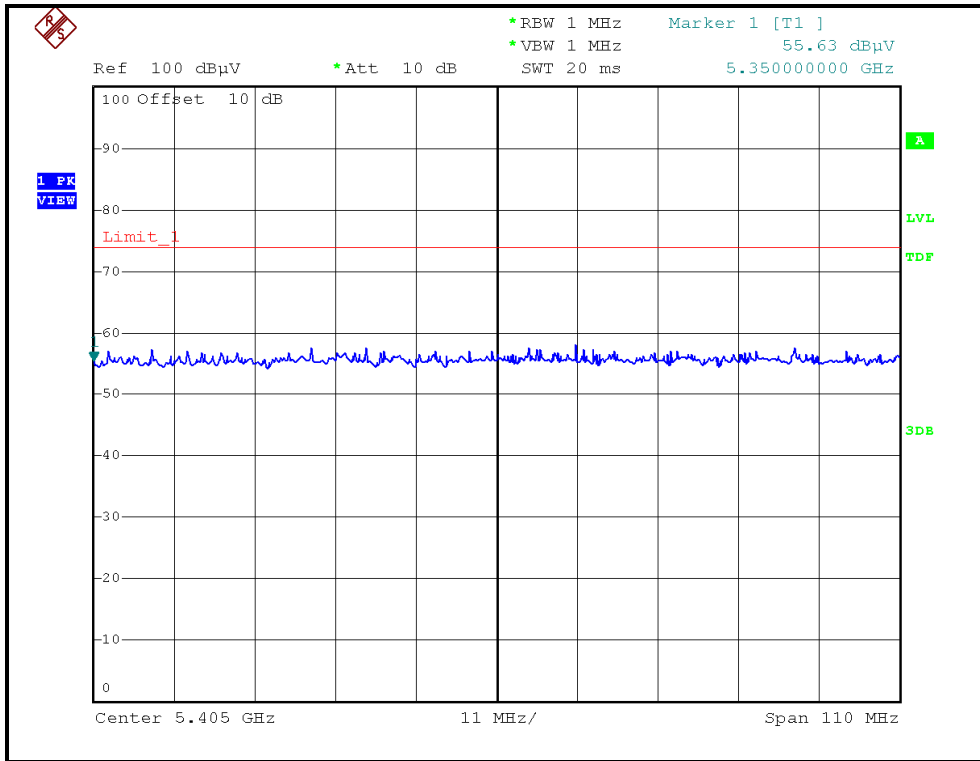
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH5, VERTICAL)





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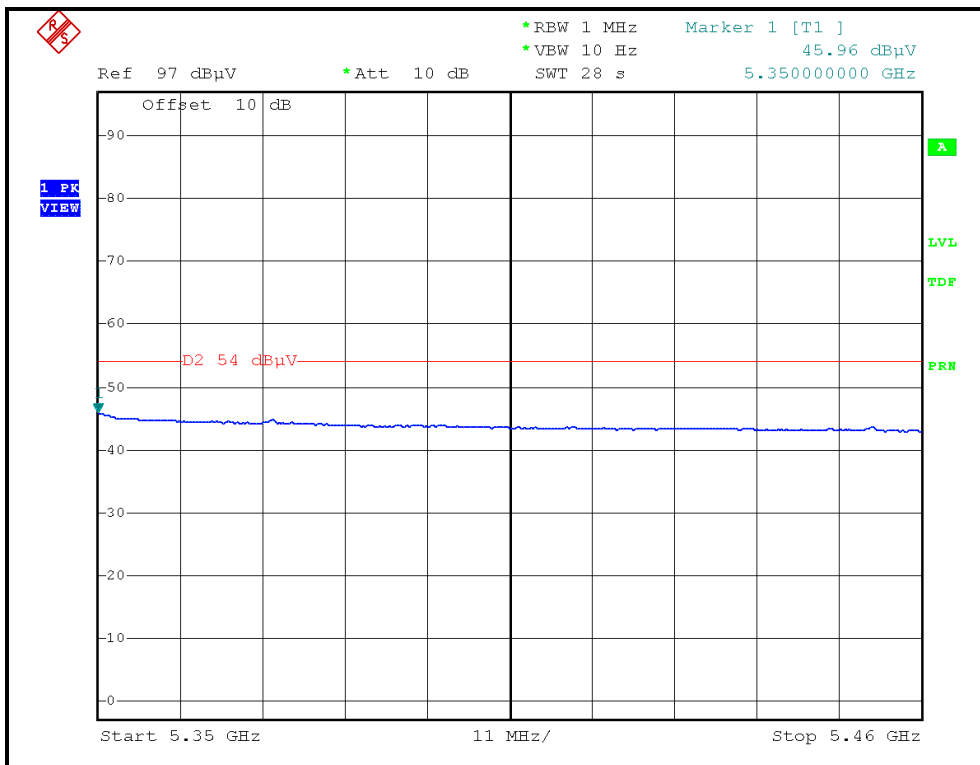
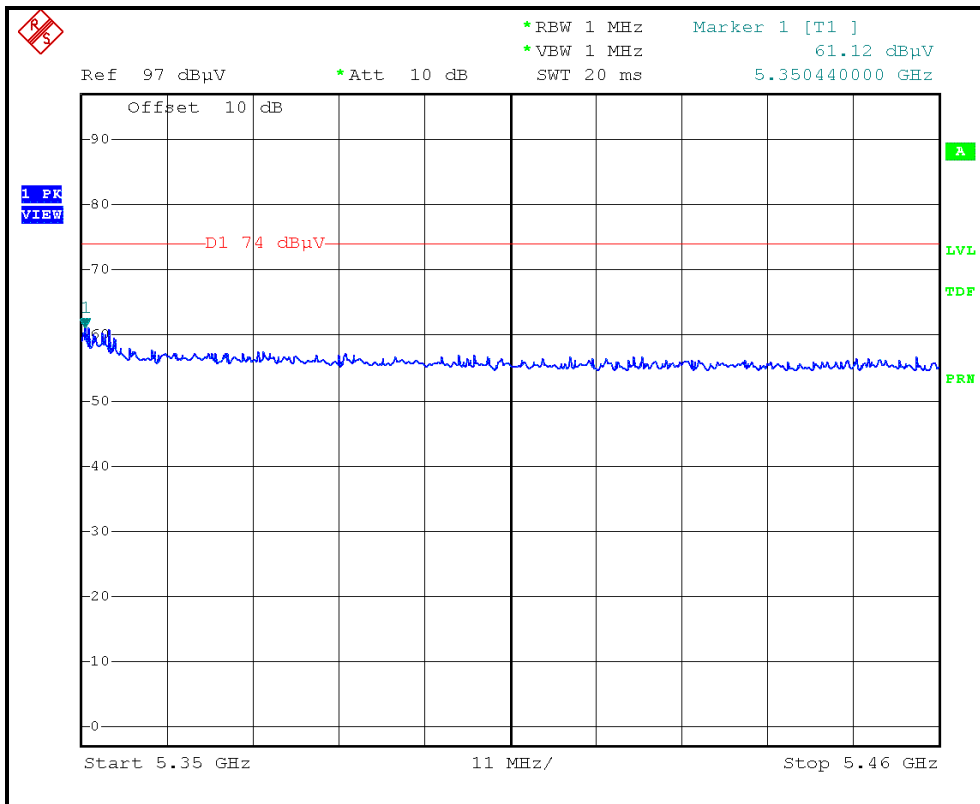
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH8, HORIZONTAL)





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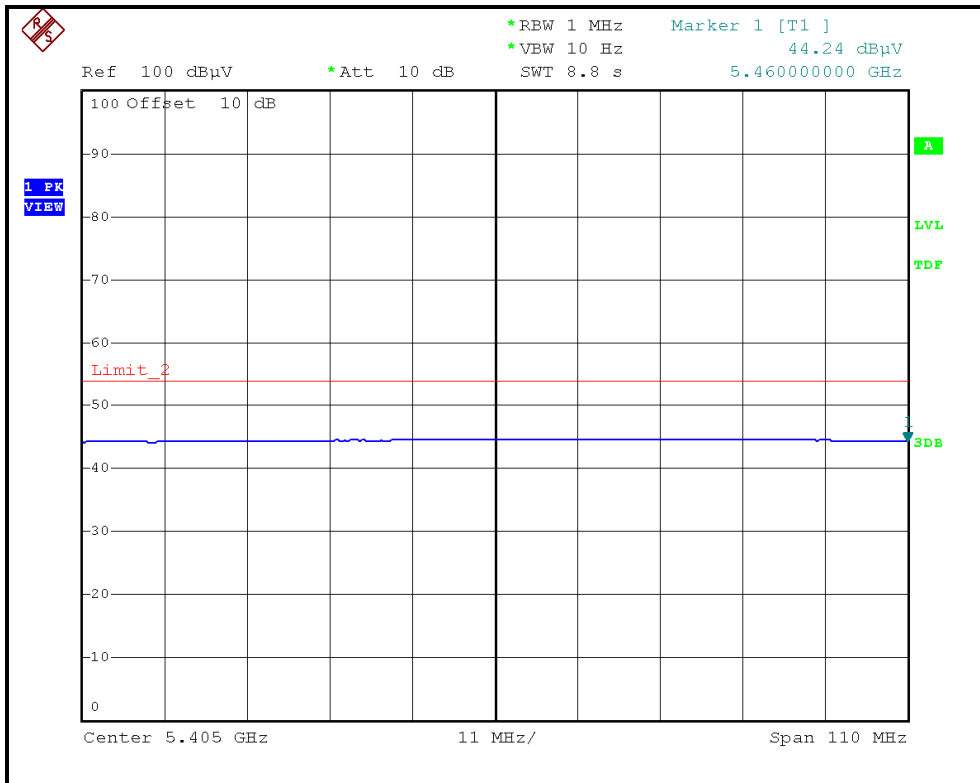
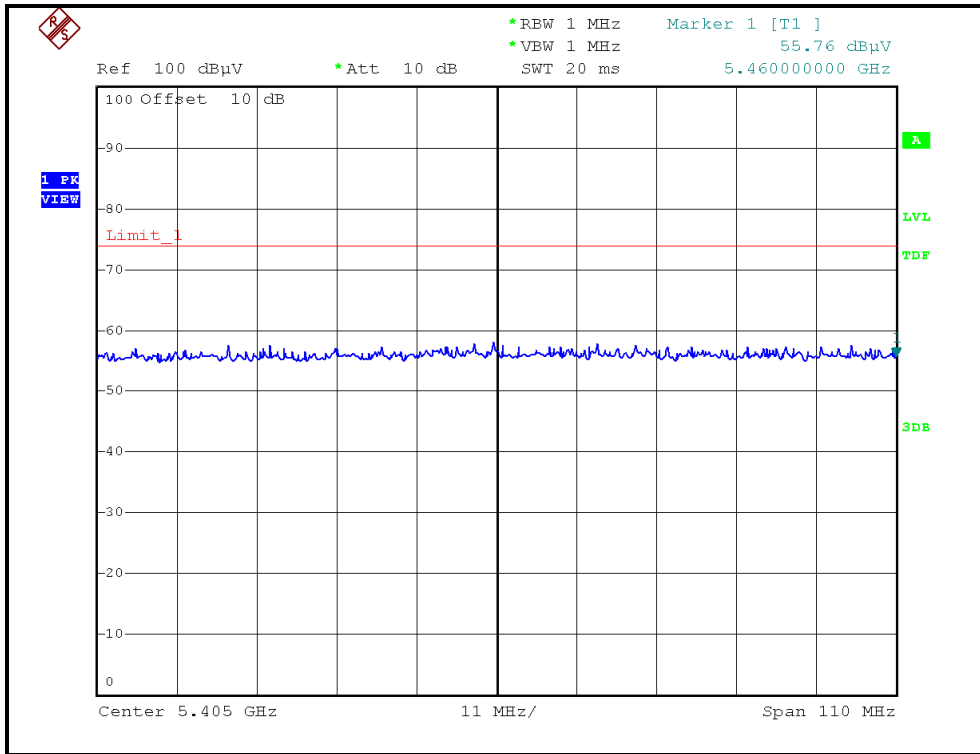
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH8, VERTICAL)





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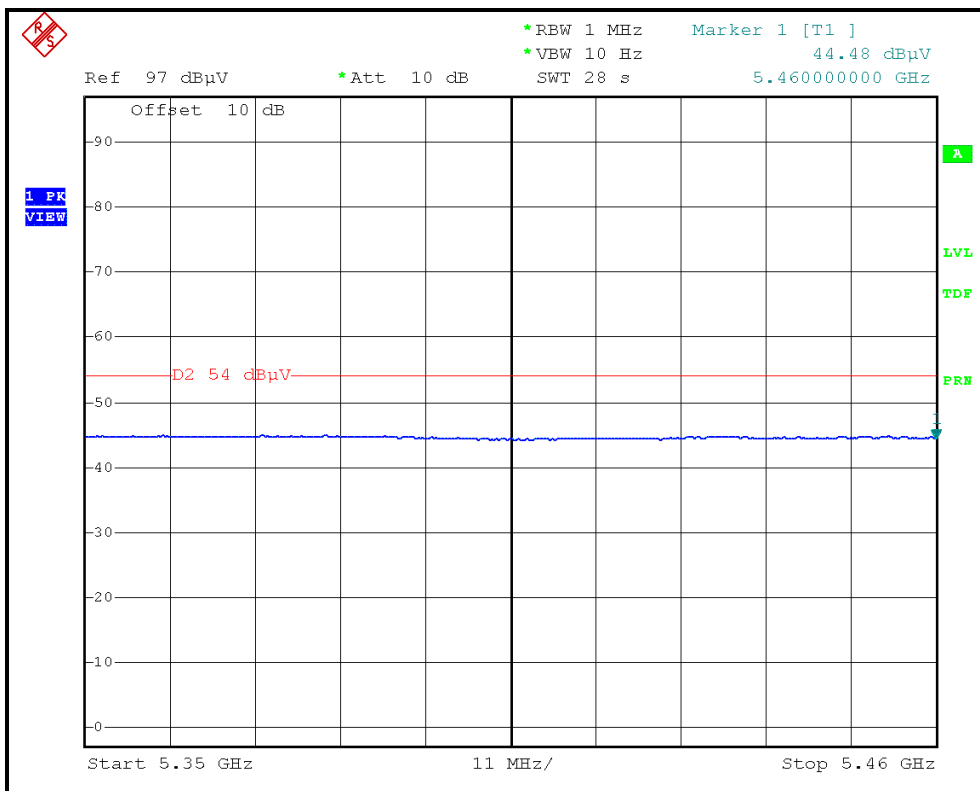
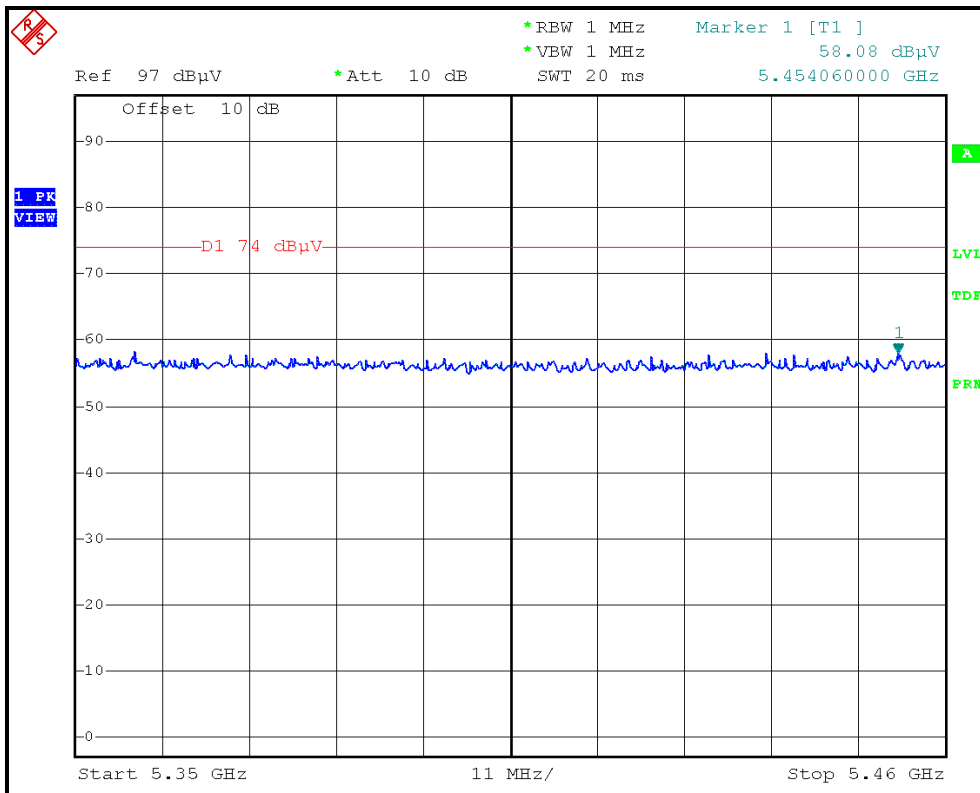
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH9, VERTICAL)





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DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3513.30	38.10 PK	68.30	-30.20	1.26 H	326	5.15	32.95
2	4714.50	54.83 PK	74.00	-19.17	1.23 H	324	18.34	36.49
3	4714.50	43.03 AV	54.00	-10.97	1.23 H	324	6.54	36.49
4	*5270.00	109.24 PK			1.21 H	319	71.98	37.26
5	*5270.00	97.20 AV			1.21 H	319	59.94	37.26
6	7026.00	51.64 PK	68.30	-16.66	1.29 H	351	8.48	43.16
7	#10540.00	52.74 PK	68.30	-15.56	1.24 H	334	5.96	46.78

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	#3513.30	38.65 PK	68.30	-29.65	1.08 V	5	5.70	32.95
2	4722.30	54.41 PK	74.00	-19.59	1.12 V	16	17.89	36.52
3	4722.30	42.97 AV	54.00	-11.03	1.12 V	16	6.45	36.52
4	*5270.00	119.05 PK			1.18 V	3	81.79	37.26
5	*5270.00	107.55 AV			1.18 V	3	70.29	37.26
6	7026.00	52.78 PK	68.30	-15.52	1.05 V	11	9.62	43.16
7	#10540.00	53.45 PK	68.30	-14.85	1.10 V	4	6.67	46.78

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3540.00	40.73 PK	68.30	-27.57	1.20 H	321	7.70	33.03
2	*5310.00	107.24 PK			1.26 H	308	69.98	37.26
3	*5310.00	95.43 AV			1.26 H	308	58.17	37.26
4	5350.00	57.30 PK	74.00	-16.70	1.23 H	241	20.04	37.26
5	5350.00	44.13 AV	54.00	-9.87	1.23 H	241	6.87	37.26
6	#7080.00	49.12 PK	68.30	-19.18	1.24 H	354	5.97	43.15
7	10620.00	52.73 PK	74.00	-21.27	4.00 H	342	5.88	46.85
8	10620.00	41.64 AV	54.00	-12.36	4.00 H	342	-5.21	46.85

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	#3540.00	41.87 PK	68.30	-26.43	1.05 V	8	8.84	33.03
2	*5310.00	117.58 PK			1.18 V	3	80.32	37.26
3	*5310.00	105.15 AV			1.18 V	3	67.89	37.26
4	5350.00	70.10 PK	74.00	-3.90	1.26 V	2	32.84	37.26
5	5350.00	53.49 AV	54.00	-0.51	1.26 V	2	16.23	37.26
6	#7080.00	49.96 PK	68.30	-18.34	1.13 V	14	6.81	43.15
7	10620.00	53.22 PK	74.00	-20.78	1.11 V	19	6.37	46.85
8	10620.00	42.08 AV	54.00	-11.92	1.11 V	19	-4.77	46.85

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3673.30	41.73 PK	74.00	-32.27	1.19 H	323	8.30	33.43
2	3673.30	32.84 AV	54.00	-21.16	1.19 H	323	-0.59	33.43
3	5460.00	55.65 PK	74.00	-18.35	1.22 H	231	18.39	37.26
4	5460.00	44.11 AV	54.00	-9.89	1.22 H	231	6.85	37.26
5	#5470.00	60.48 PK	68.30	-7.82	1.20 H	326	23.22	37.26
6	*5510.00	100.24 PK			1.24 H	304	62.95	37.29
7	*5510.00	88.64 AV			1.24 H	304	51.35	37.29
8	7346.60	48.61 PK	74.00	-25.39	1.21 H	314	5.48	43.13
9	7346.60	37.24 AV	54.00	-16.76	1.21 H	314	-5.89	43.13
10	11020.00	55.29 PK	74.00	-18.71	1.29 H	331	8.14	47.15
11	11020.00	42.98 AV	54.00	-11.02	1.29 H	331	-4.17	47.15

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	3673.30	42.05 PK	74.00	-31.95	1.01 V	3	8.62	33.43
2	3673.30	33.08 AV	54.00	-20.92	1.01 V	3	-0.35	33.43
3	5447.00	57.22 PK	74.00	-16.78	1.12 V	5	19.96	37.26
4	5447.00	45.66 AV	54.00	-8.34	1.12 V	5	8.40	37.26
5	#5470.00	67.39 PK	68.30	-0.91	1.08 V	0	30.13	37.26
6	*5510.00	110.41 PK			1.07 V	1	73.12	37.29
7	*5510.00	98.44 AV			1.07 V	1	61.15	37.29
8	7346.60	49.65 PK	74.00	-24.35	1.40 V	22	6.52	43.13
9	7346.60	38.74 AV	54.00	-15.26	1.40 V	22	-4.39	43.13
10	11020.00	56.48 PK	74.00	-17.52	1.14 V	8	9.33	47.15
11	11020.00	43.65 AV	54.00	-10.35	1.14 V	8	-3.50	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * " : Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3726.60	40.72 PK	74.00	-33.28	1.20 H	319	7.13	33.59
2	3726.60	31.20 AV	54.00	-22.80	1.20 H	319	-2.39	33.59
3	*5590.00	107.13 PK			1.26 H	301	69.61	37.52
4	*5590.00	95.12 AV			1.26 H	301	57.60	37.52
5	7453.30	53.10 PK	74.00	-20.90	1.21 H	331	9.98	43.12
6	7453.30	39.40 AV	54.00	-14.60	1.21 H	331	-3.72	43.12
7	11180.00	53.66 PK	74.00	-20.34	1.24 H	326	6.48	47.18
8	11180.00	41.64 AV	54.00	-12.36	1.24 H	326	-5.54	47.18
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	3726.60	41.57 PK	74.00	-32.43	1.40 V	5	7.98	33.59
2	3726.60	32.40 AV	54.00	-21.60	1.40 V	5	-1.19	33.59
3	*5590.00	116.58 PK			1.04 V	4	79.06	37.52
4	*5590.00	105.11 AV			1.04 V	4	67.59	37.52
5	7453.30	53.38 PK	74.00	-20.62	1.26 V	18	10.26	43.12
6	7453.30	40.07 AV	54.00	-13.93	1.26 V	18	-3.05	43.12
7	11180.00	54.55 PK	74.00	-19.45	1.41 V	65	7.37	47.18
8	11180.00	42.56 AV	54.00	-11.44	1.41 V	65	-4.62	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3780.00	42.84 PK	74.00	-31.16	1.26 H	339	9.08	33.76
2	3780.00	33.77 AV	54.00	-20.23	1.26 H	339	0.01	33.76
3	*5670.00	104.23 PK			1.24 H	309	66.49	37.74
4	*5670.00	93.20 AV			1.24 H	309	55.46	37.74
5	#5725.00	60.34 PK	68.30	-7.96	1.27 H	321	22.44	37.90
6	7560.00	49.14 PK	74.00	-24.86	1.24 H	313	5.91	43.23
7	7560.00	40.73 AV	54.00	-13.27	1.24 H	313	-2.50	43.23
8	11340.00	52.12 PK	74.00	-21.88	1.24 H	324	4.92	47.20
9	11340.00	42.73 AV	54.00	-11.27	1.24 H	324	-4.47	47.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

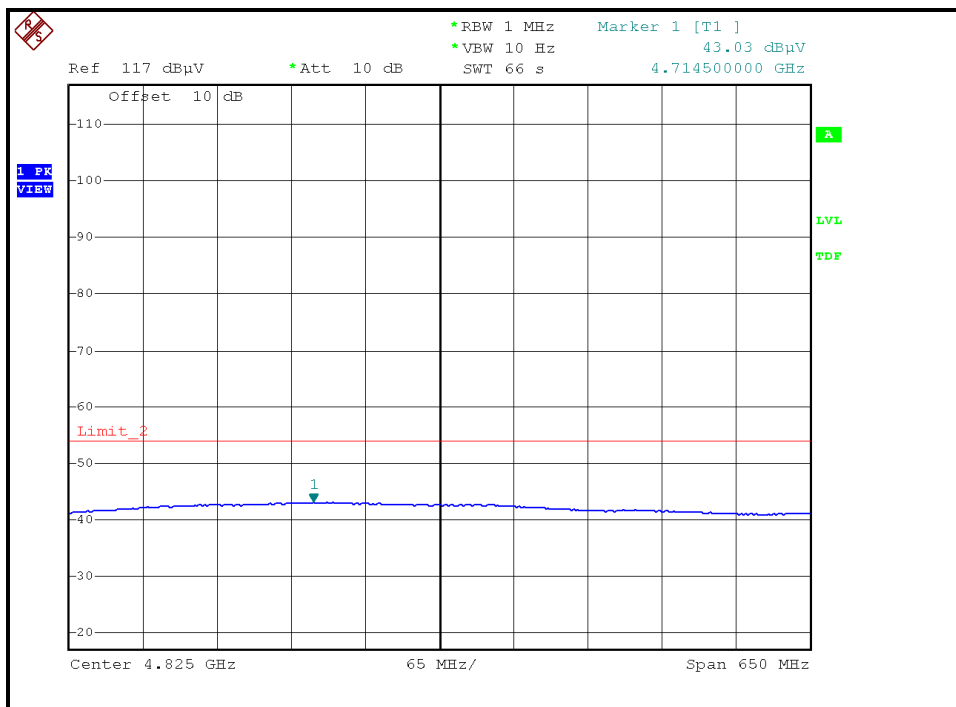
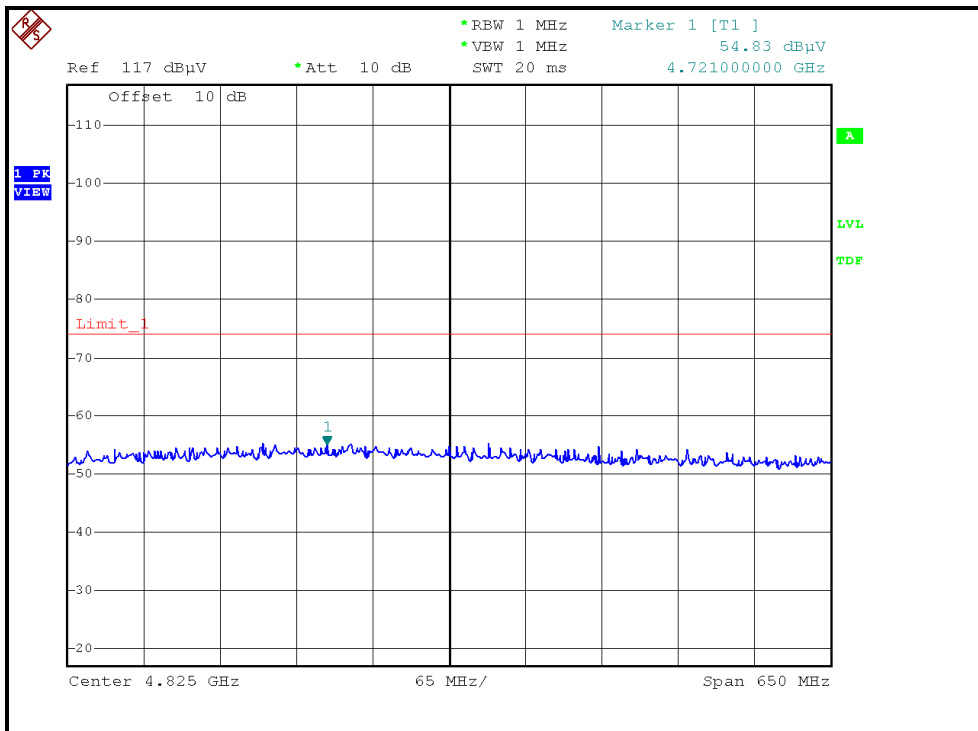
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3780.00	43.99 PK	74.00	-30.01	1.19 V	4	10.23	33.76
2	3780.00	34.84 AV	54.00	-19.16	1.19 V	4	1.08	33.76
3	*5670.00	114.99 PK			1.10 V	359	77.25	37.74
4	*5670.00	103.40 AV			1.10 V	359	65.66	37.74
5	#5725.00	67.73 PK	68.30	-0.57	1.13 V	5	29.83	37.90
6	7560.00	50.25 PK	74.00	-23.75	1.18 V	13	7.02	43.23
7	7560.00	41.05 AV	54.00	-12.95	1.18 V	13	-2.18	43.23
8	11340.00	53.64 PK	74.00	-20.36	1.20 V	15	6.44	47.20
9	11340.00	43.10 AV	54.00	-10.90	1.20 V	15	-4.10	47.20

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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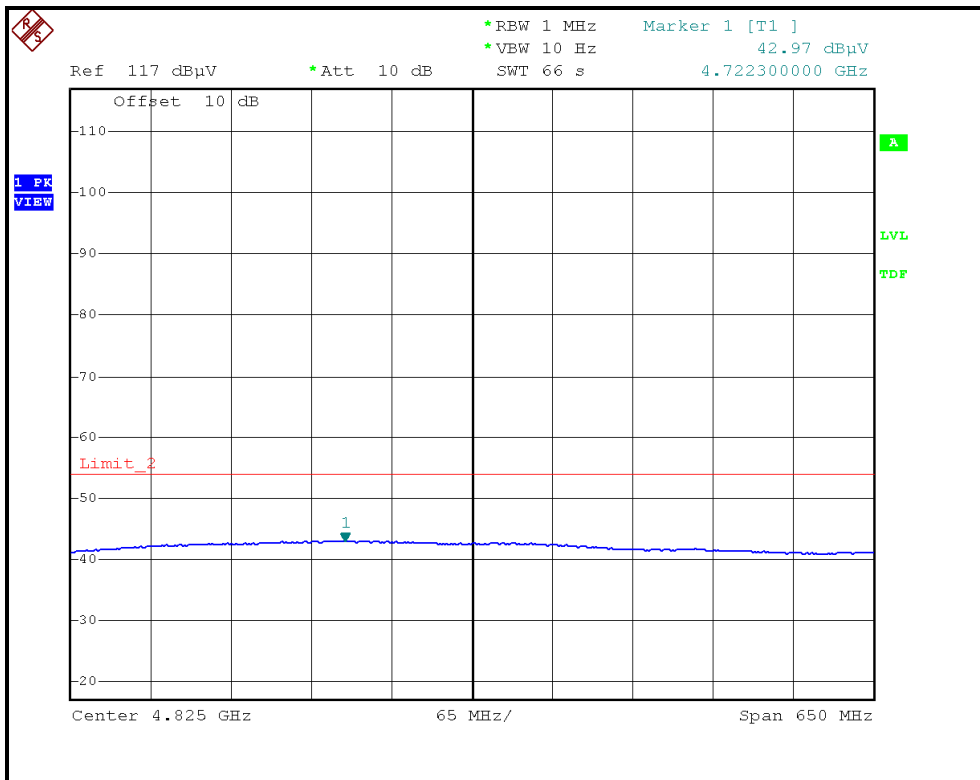
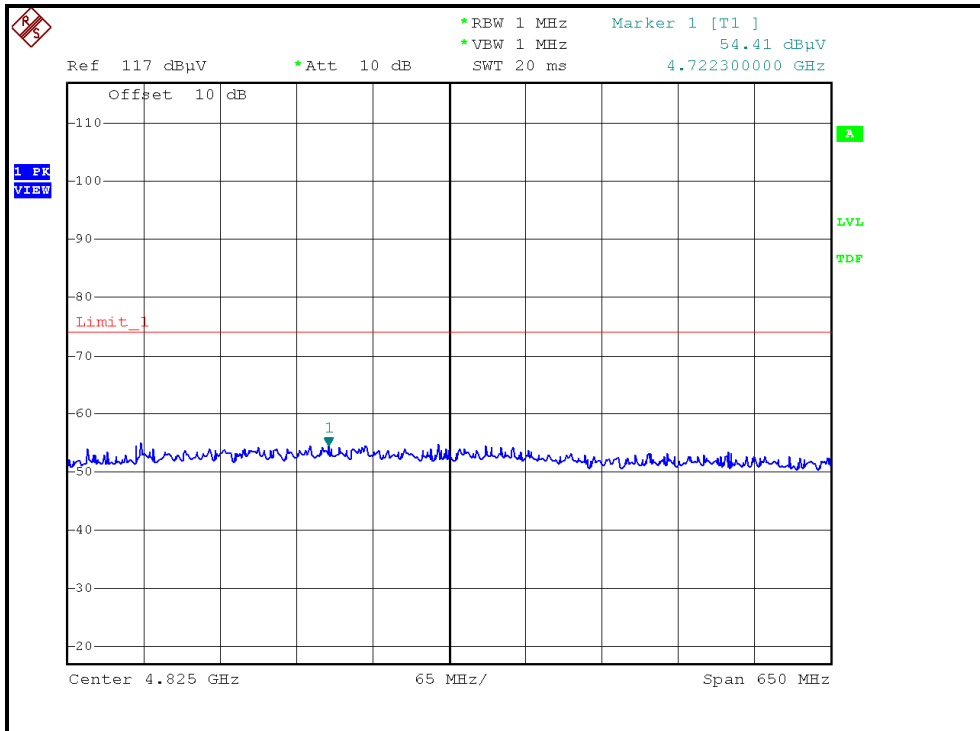
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH3, HORIZONTAL)





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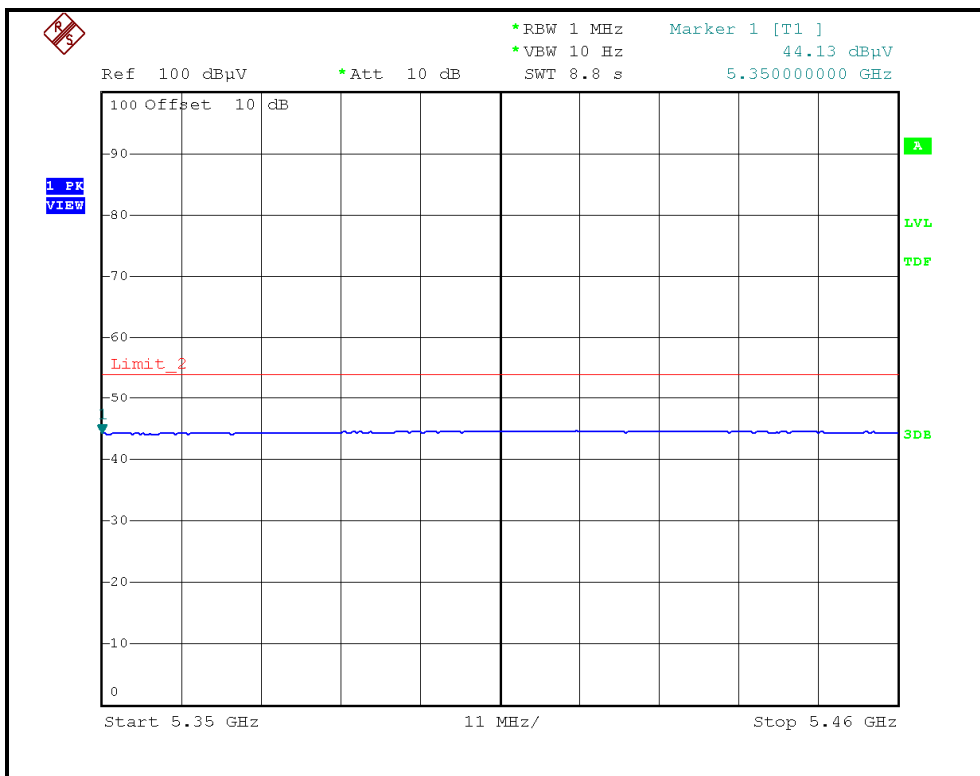
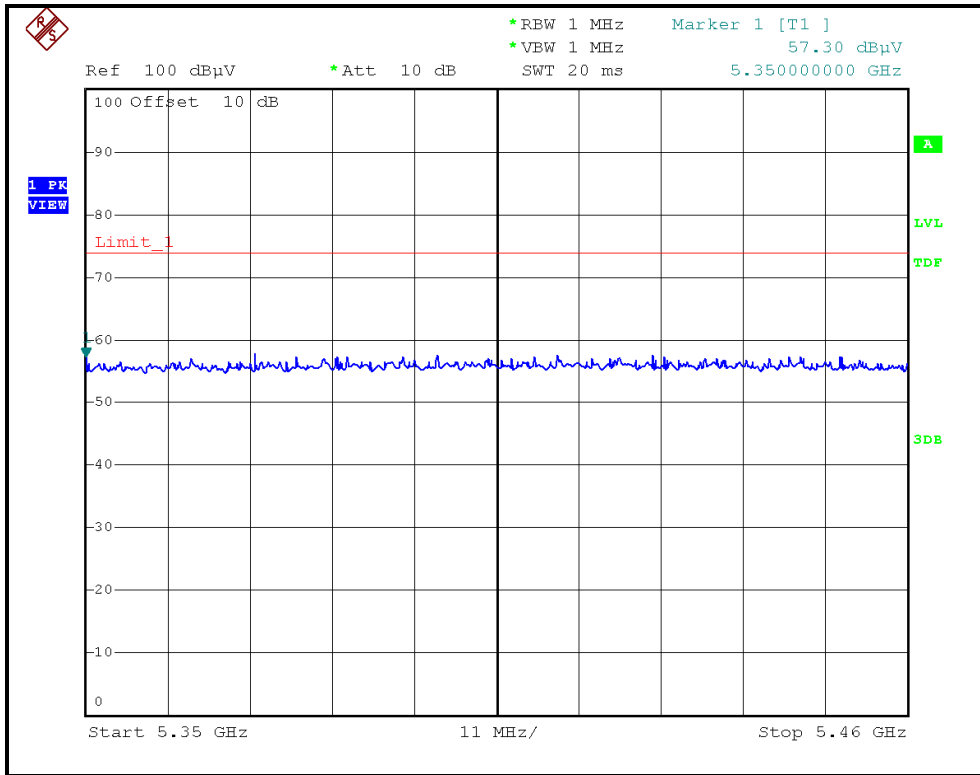
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH3, VERTICAL)





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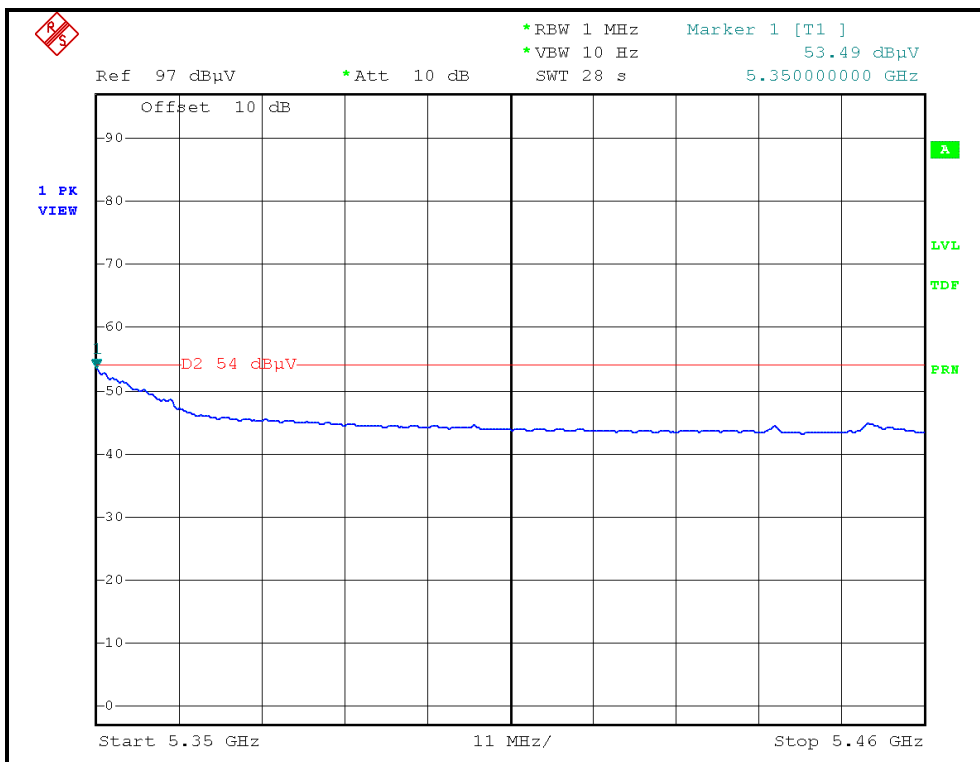
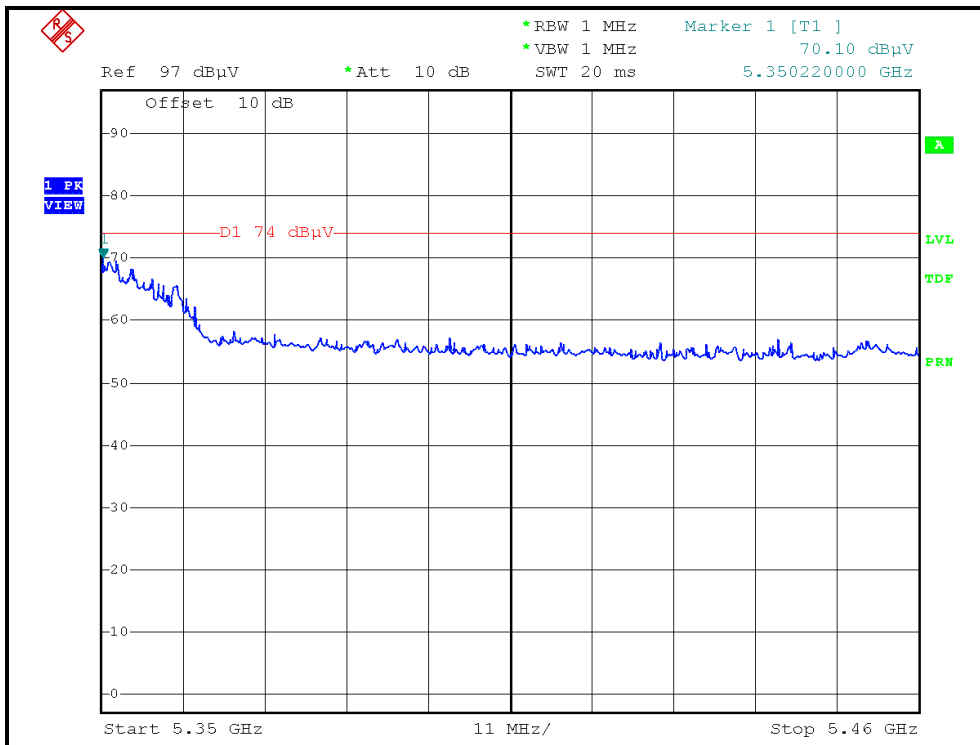
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, HORIZONTAL)





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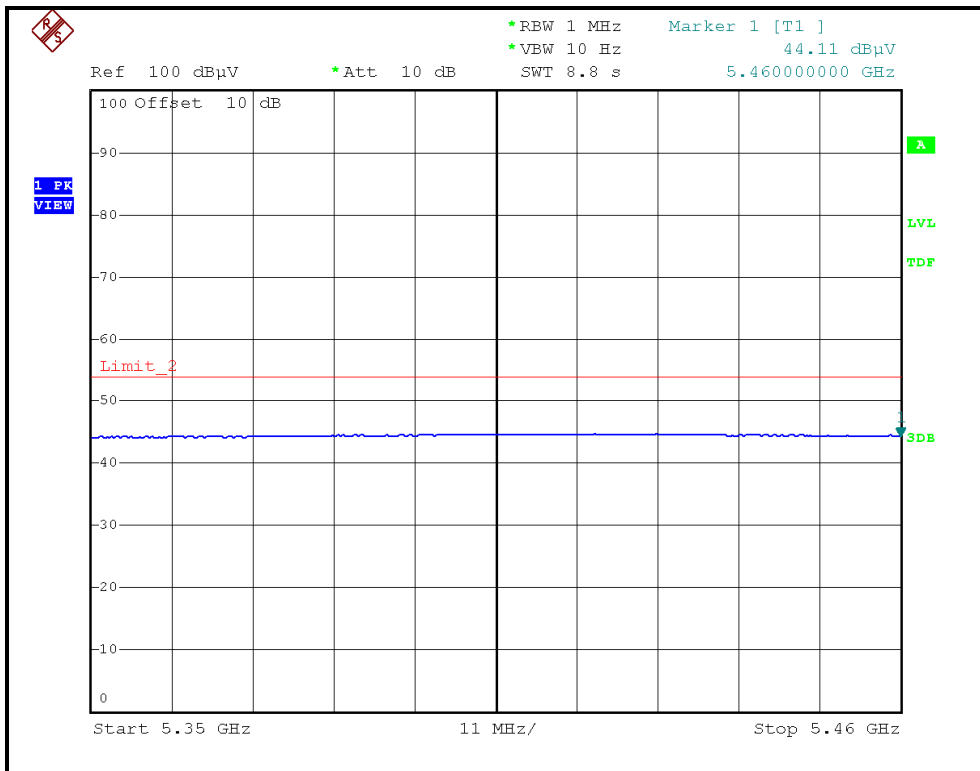
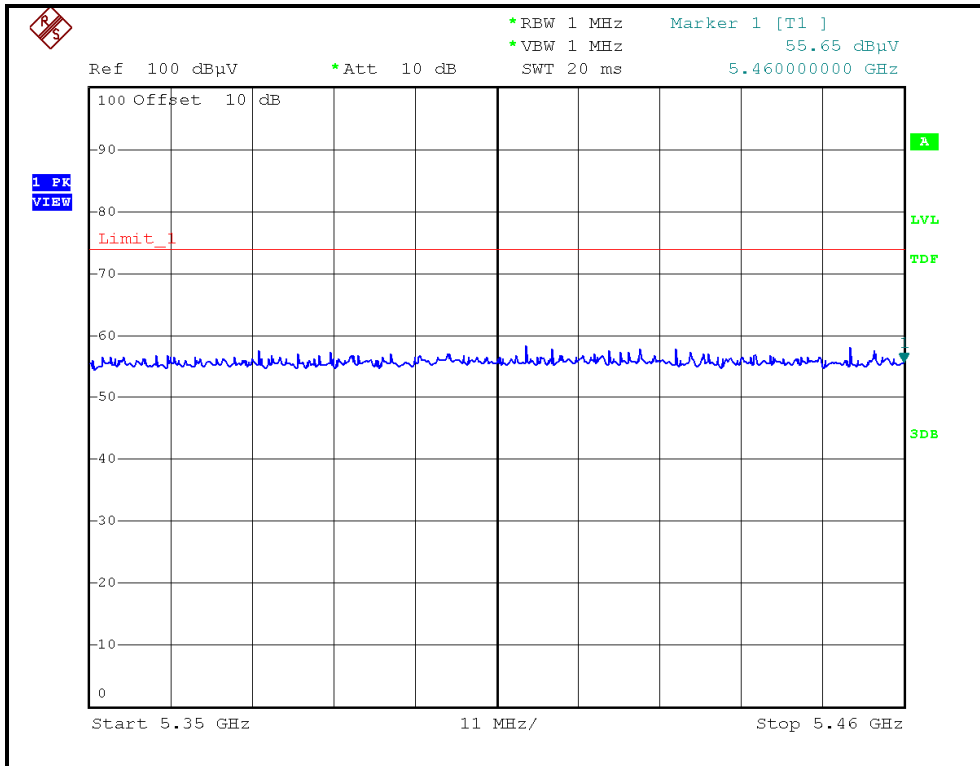
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, VERTICAL)





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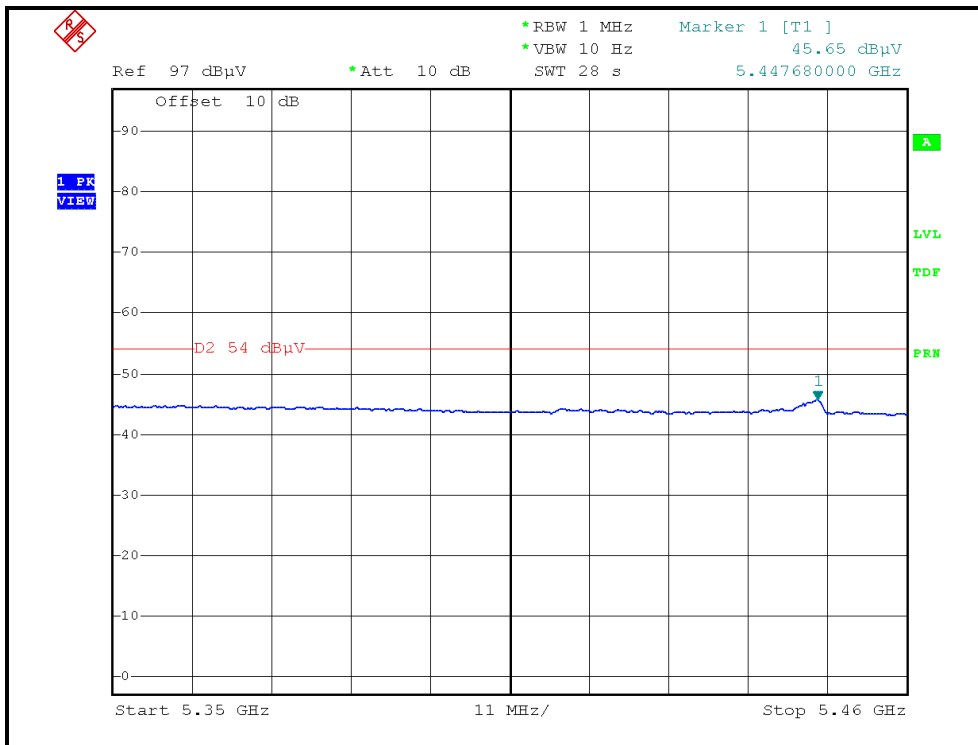
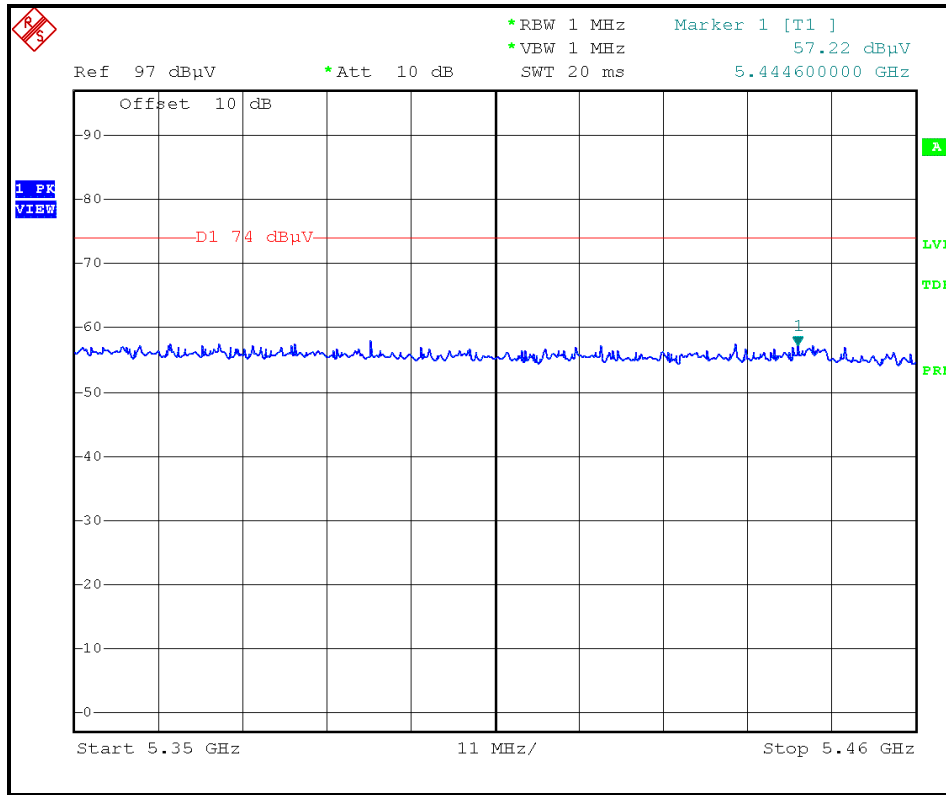
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, VERTICAL)





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4.2.10 TEST RESULTS – ANTENNA 7

BELOW 1GHz WORST-CASE DATA : DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30.0deg. C, 55.0%RH 965hPa	TESTED BY	Frank Liu

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	125.00	29.85 QP	43.50	-13.65	1.37 H	360	16.79	13.07
2	250.00	35.64 QP	46.00	-10.36	1.27 H	265	21.39	14.25
3	375.00	38.52 QP	46.00	-7.48	1.13 H	338	19.71	18.81
4	650.00	43.86 QP	46.00	-2.14	1.04 H	252	18.33	25.53
5	750.00	35.52 QP	46.00	-10.48	1.08 H	253	8.61	26.91
6	875.00	37.78 QP	46.00	-8.22	1.04 H	125	8.49	29.29
7	1000.00	38.98 QP	54.00	-15.02	1.07 H	172	8.24	30.74

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	57.21	33.15 QP	40.00	-6.85	1.00 V	274	19.46	13.69
2	125.00	30.98 QP	43.50	-12.52	1.00 V	177	17.91	13.07
3	250.00	30.45 QP	46.00	-15.55	1.00 V	86	16.20	14.25
4	375.00	40.53 QP	46.00	-5.47	1.09 V	282	21.72	18.81
5	600.00	38.78 QP	46.00	-7.22	1.00 V	296	13.74	25.04
6	650.00	40.82 QP	46.00	-5.18	1.00 V	231	15.29	25.53

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	40.84 PK	68.30	-27.46	1.02 H	101	7.91	32.93
2	4714.50	54.67 PK	74.00	-19.33	1.00 H	32	18.18	36.49
3	4714.50	42.97 AV	54.00	-11.03	1.00 H	32	6.48	36.49
4	*5260.00	113.60 PK			1.00 H	21	76.34	37.26
5	*5260.00	105.40 AV			1.00 H	21	68.14	37.26
6	#7013.30	54.28 PK	68.30	-14.02	1.00 H	116	11.12	43.16
7	#10520.00	55.10 PK	68.30	-13.20	1.00 H	102	8.33	46.77

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	#3506.60	41.97 PK	68.30	-26.33	1.00 V	359	9.04	32.93
2	4731.40	55.40 PK	74.00	-18.60	1.00 V	126	18.86	36.54
3	4731.40	42.99 AV	54.00	-11.01	1.00 V	126	6.45	36.54
4	*5260.00	122.94 PK			1.00 V	125	85.68	37.26
5	*5260.00	112.71 AV			1.00 V	125	75.45	37.26
6	#7013.30	54.79 PK	68.30	-13.51	1.00 V	20	11.63	43.16
7	#10520.00	55.48 PK	68.30	-12.82	1.00 V	49	8.71	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	41.20 PK	68.30	-27.10	1.04 H	103	8.19	33.01
2	*5300.00	113.02 PK			1.00 H	32	75.76	37.26
3	*5300.00	105.10 AV			1.00 H	32	67.84	37.26
4	#7066.60	53.10 PK	68.30	-15.20	1.00 H	116	9.95	43.15
5	10600.00	54.22 PK	74.00	-19.78	1.00 H	104	7.39	46.83
6	10600.00	40.13 AV	54.00	-13.87	1.00 H	104	-6.70	46.83

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	#3533.30	41.54 PK	68.30	-26.76	1.00 V	356	8.53	33.01
2	*5300.00	122.05 PK			1.00 V	128	84.79	37.26
3	*5300.00	112.21 AV			1.00 V	128	74.95	37.26
4	#7066.60	53.39 PK	68.30	-14.91	1.00 V	21	10.24	43.15
5	10600.00	54.69 PK	74.00	-19.31	1.00 V	47	7.86	46.83
6	10600.00	40.62 AV	54.00	-13.38	1.00 V	47	-6.21	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	40.83 PK	68.30	-27.47	1.02 H	108	7.78	33.05
2	*5320.00	113.20 PK			1.00 H	24	75.94	37.26
3	*5320.00	105.20 AV			1.00 H	24	67.94	37.26
4	5350.00	56.01 PK	74.00	-17.99	1.00 H	27	18.75	37.26
5	5350.00	44.05 AV	54.00	-9.95	1.00 H	27	6.79	37.26
6	#7093.30	52.10 PK	68.30	-16.20	1.00 H	109	8.95	43.15
7	10640.00	54.24 PK	74.00	-19.76	1.00 H	107	7.38	46.86
8	10640.00	41.12 AV	54.00	-12.88	1.00 H	107	-5.74	46.86

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	#3546.60	41.97 PK	68.30	-26.33	1.00 V	0	8.92	33.05
2	*5320.00	122.70 PK			1.00 V	127	85.44	37.26
3	*5320.00	112.33 AV			1.00 V	127	75.07	37.26
4	5350.00	67.22 PK	74.00	-6.78	1.00 V	7	29.96	37.26
5	5350.00	50.52 AV	54.00	-3.48	1.00 V	7	13.26	37.26
6	#7093.30	52.44 PK	68.30	-15.86	1.00 V	31	9.29	43.15
7	10640.00	54.75 PK	74.00	-19.25	1.00 V	49	7.89	46.86
8	10640.00	41.59 AV	54.00	-12.41	1.00 V	49	-5.27	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	42.70 PK	74.00	-31.30	1.00 H	108	9.29	33.41
2	3666.60	30.90 AV	54.00	-23.10	1.00 H	108	-2.51	33.41
3	5460.00	55.32 PK	74.00	-18.68	1.00 H	27	18.06	37.26
4	5460.00	44.04 AV	54.00	-9.96	1.00 H	27	6.78	37.26
5	#5470.00	60.30 PK	68.30	-8.00	1.00 H	24	23.04	37.26
6	*5500.00	113.20 PK			1.00 H	26	75.94	37.26
7	*5500.00	103.10 AV			1.00 H	26	65.84	37.26
8	7333.30	51.20 PK	74.00	-22.80	1.00 H	108	8.07	43.13
9	7333.30	39.20 AV	54.00	-14.80	1.00 H	108	-3.93	43.13
10	11000.00	55.24 PK	74.00	-18.76	1.00 H	102	8.09	47.15
11	11000.00	41.70 AV	54.00	-12.30	1.00 H	102	-5.45	47.15

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	3666.60	43.18 PK	74.00	-30.82	1.00 V	5	9.77	33.41
2	3666.60	31.65 AV	54.00	-22.35	1.00 V	5	-1.76	33.41
3	5460.00	60.06 PK	74.00	-13.94	1.00 V	62	22.80	37.26
4	5460.00	45.69 AV	54.00	-8.31	1.00 V	62	8.43	37.26
5	#5470.00	67.47 PK	68.30	-0.83	1.00 V	315	30.21	37.26
6	*5500.00	120.70 PK			1.00 V	313	83.44	37.26
7	*5500.00	110.41 AV			1.00 V	313	73.15	37.26
8	7333.30	51.69 PK	74.00	-22.31	1.00 V	47	8.56	43.13
9	7333.30	40.67 AV	54.00	-13.33	1.00 V	47	-2.46	43.13
10	11000.00	55.83 PK	74.00	-18.17	1.00 V	36	8.68	47.15
11	11000.00	42.15 AV	54.00	-11.85	1.00 V	36	-5.00	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	40.80 PK	74.00	-33.20	1.00 H	104	7.19	33.61
2	3733.30	29.70 AV	54.00	-24.30	1.00 H	104	-3.91	33.61
3	*5600.00	116.40 PK			1.00 H	26	78.86	37.54
4	*5600.00	105.60 AV			1.00 H	26	68.06	37.54
5	7466.60	51.10 PK	74.00	-22.90	1.00 H	106	7.98	43.12
6	7466.60	41.60 AV	54.00	-12.40	1.00 H	106	-1.52	43.12
7	11200.00	55.20 PK	74.00	-18.80	1.00 H	101	8.02	47.18
8	11200.00	41.60 AV	54.00	-12.40	1.00 H	101	-5.58	47.18

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	3733.30	41.29 PK	74.00	-32.71	1.00 V	6	7.68	33.61
2	3733.30	30.11 AV	54.00	-23.89	1.00 V	6	-3.50	33.61
3	*5600.00	123.38 PK			1.00 V	313	85.84	37.54
4	*5600.00	112.75 AV			1.00 V	313	75.21	37.54
5	7466.60	51.47 PK	74.00	-22.53	1.00 V	19	8.35	43.12
6	7466.60	41.45 AV	54.00	-12.55	1.00 V	19	-1.67	43.12
7	11200.00	56.46 PK	74.00	-17.54	1.00 V	38	9.28	47.18
8	11200.00	42.52 AV	54.00	-11.48	1.00 V	38	-4.66	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3800.00	42.90 PK	74.00	-31.10	1.00 H	101	9.08	33.82
2	3800.00	29.80 AV	54.00	-24.20	1.00 H	101	-4.02	33.82
3	*5700.00	110.20 PK			1.00 H	31	72.37	37.83
4	*5700.00	100.10 AV			1.00 H	31	62.27	37.83
5	#5725.00	61.24 PK	68.30	-7.06	1.00 H	34	23.34	37.90
6	7600.00	51.83 PK	74.00	-22.17	1.00 H	104	8.52	43.31
7	7600.00	39.40 AV	54.00	-14.60	1.00 H	104	-3.91	43.31
8	11400.00	56.80 PK	74.00	-17.20	1.00 H	102	9.59	47.21
9	11400.00	42.30 AV	54.00	-11.70	1.00 H	102	-4.91	47.21

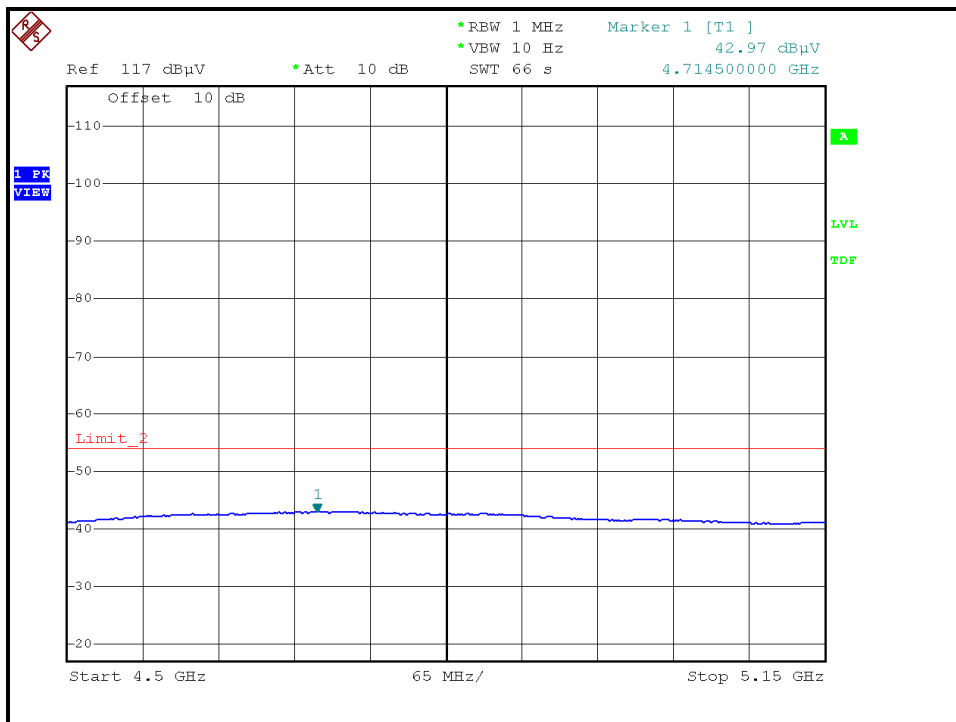
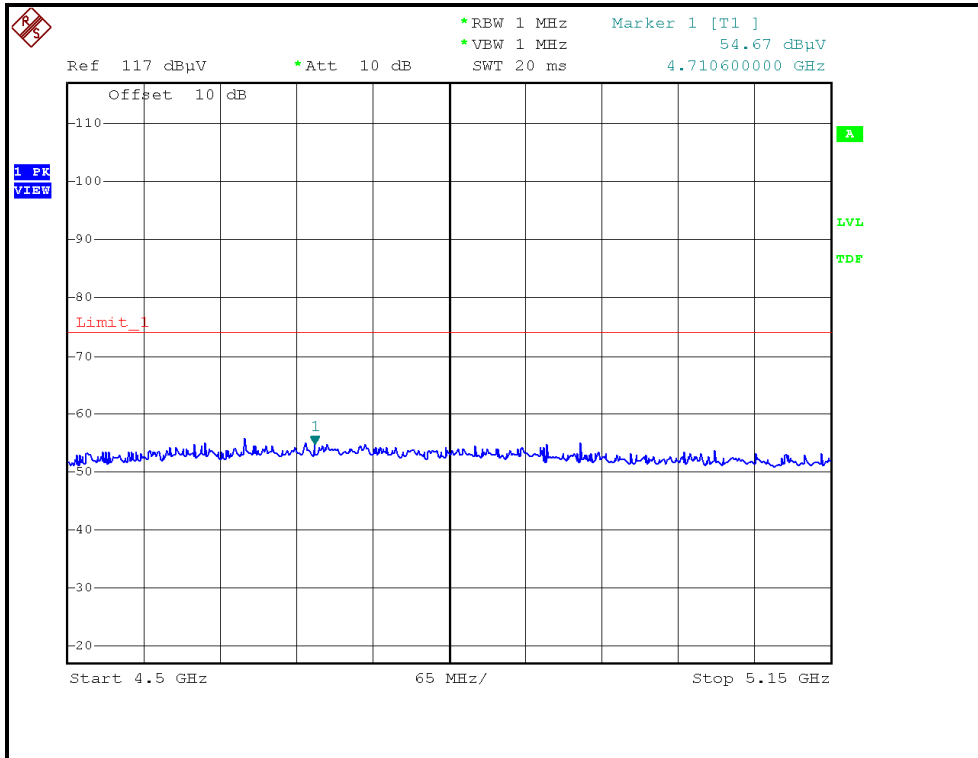
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1	3800.00	43.18 PK	74.00	-30.82	1.00 V	0	9.36	33.82
2	3800.00	30.51 AV	54.00	-23.49	1.00 V	0	-3.31	33.82
3	*5700.00	117.60 PK			1.00 V	313	79.77	37.83
4	*5700.00	106.96 AV			1.00 V	313	69.13	37.83
5	#5725.00	67.18 PK	68.30	-1.12	1.00 V	314	29.28	37.90
6	7600.00	52.26 PK	74.00	-21.74	1.00 V	35	8.95	43.31
7	7600.00	39.68 AV	54.00	-14.32	1.00 V	35	-3.63	43.31
8	11400.00	57.74 PK	74.00	-16.26	1.00 V	41	10.53	47.21
9	11400.00	43.79 AV	54.00	-10.21	1.00 V	41	-3.42	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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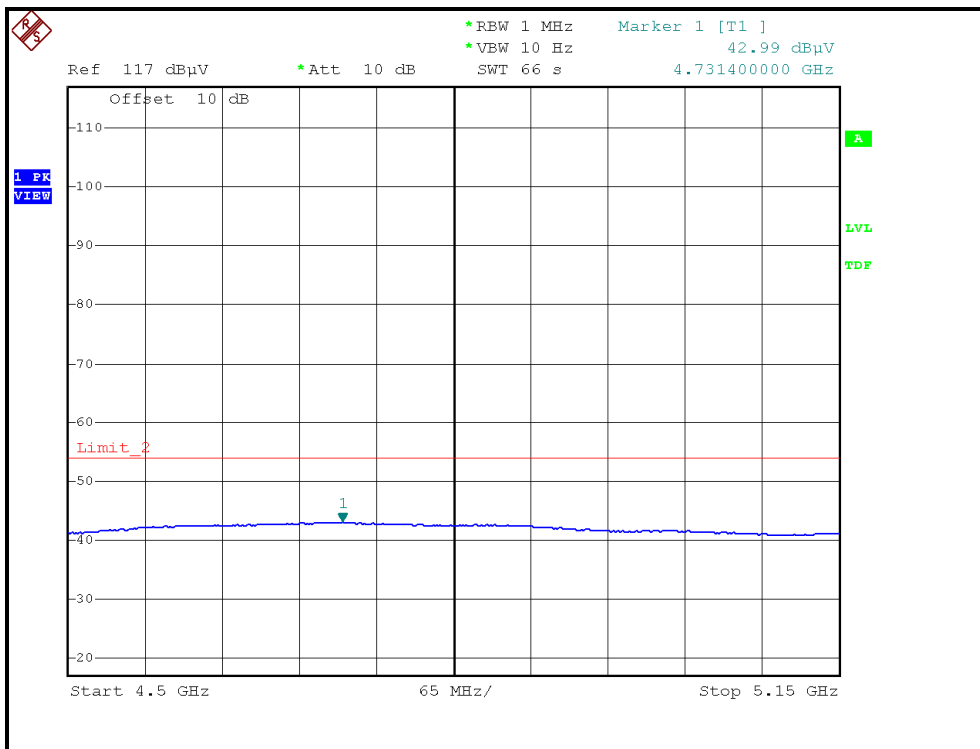
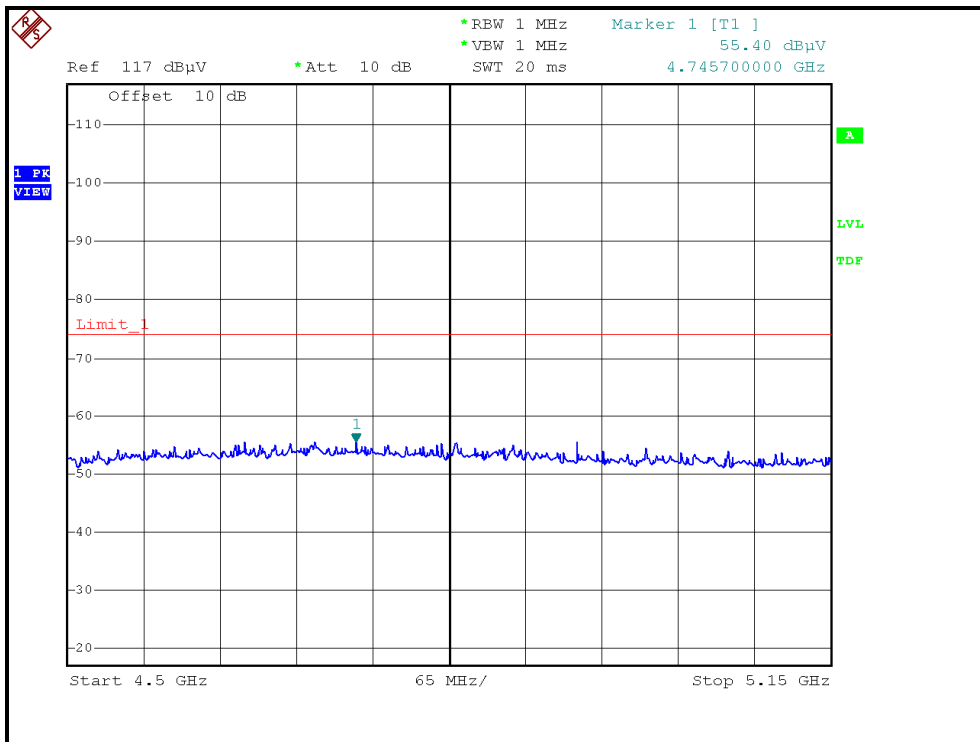
RESTRICTED BANDEDGE (802.11a MODE,CH5, HORIZONTAL)





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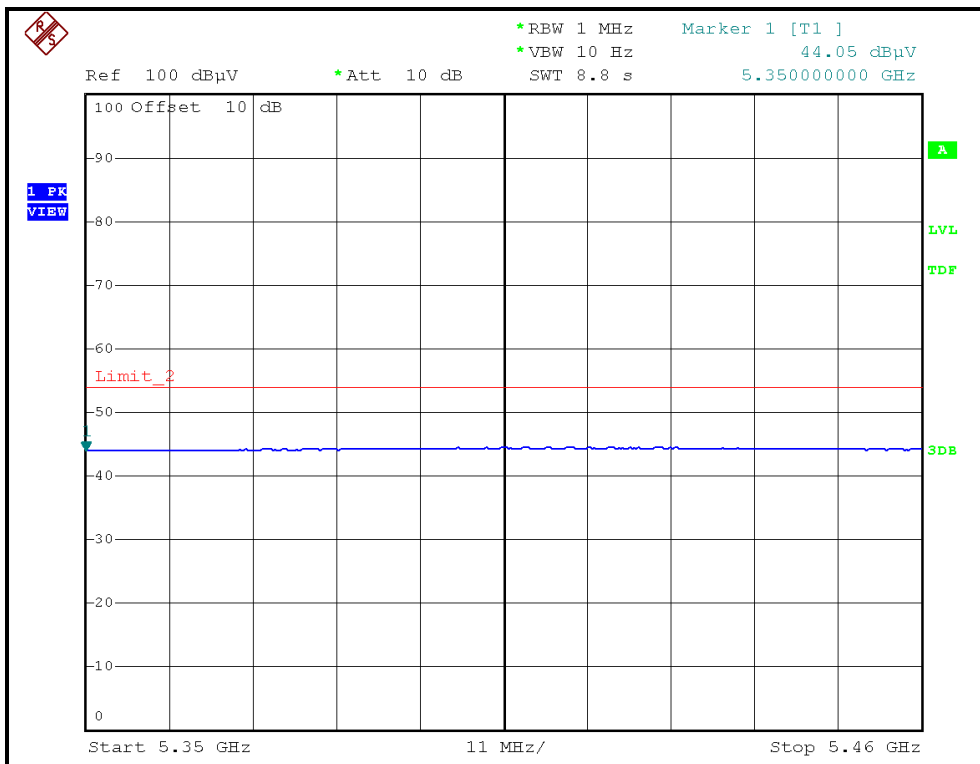
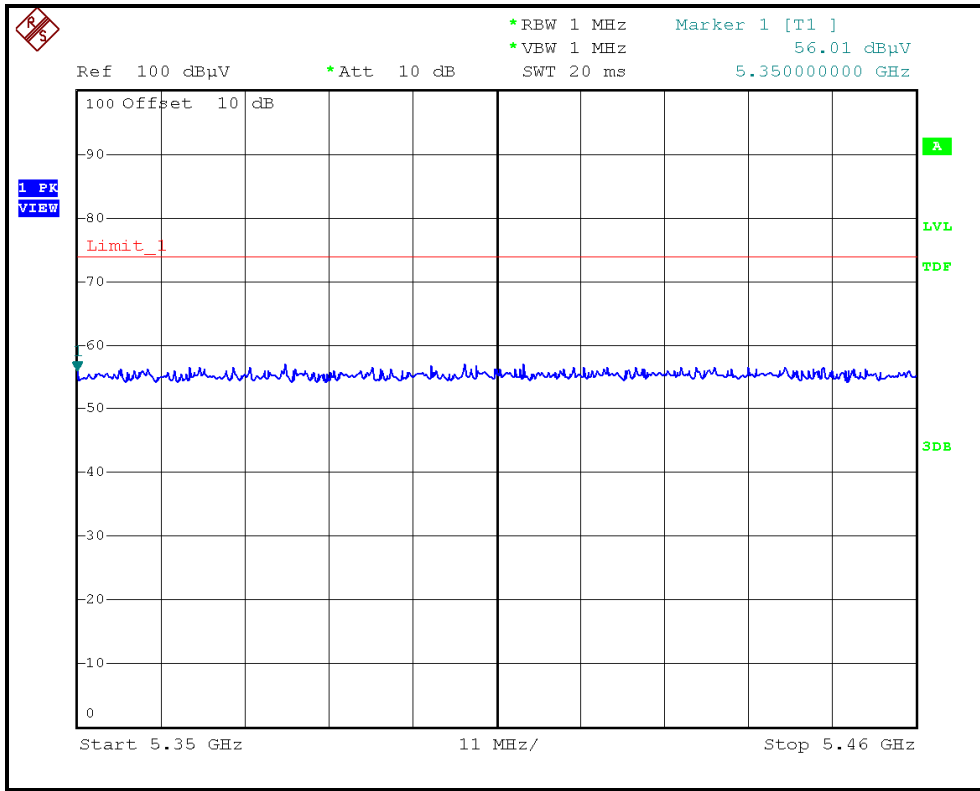
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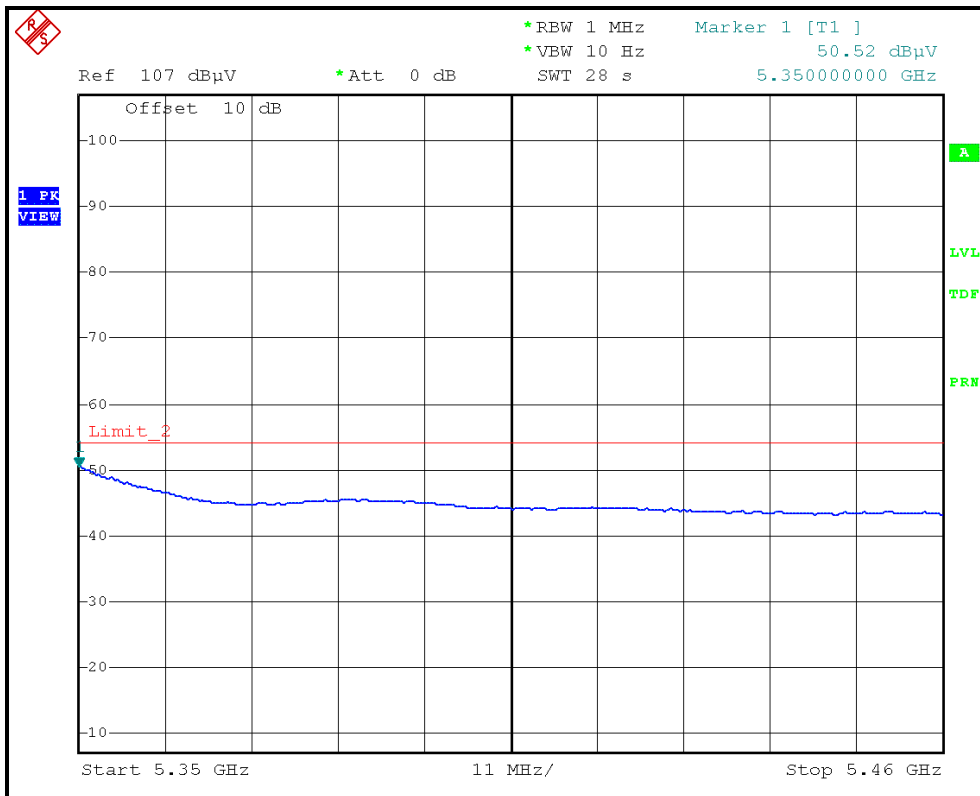
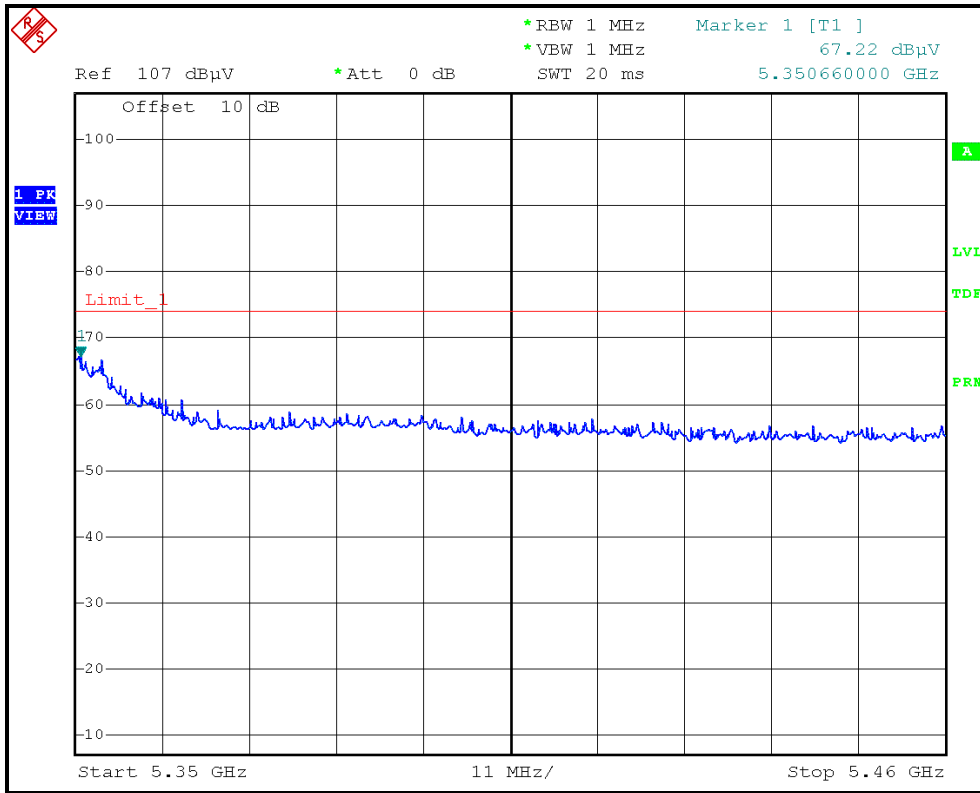
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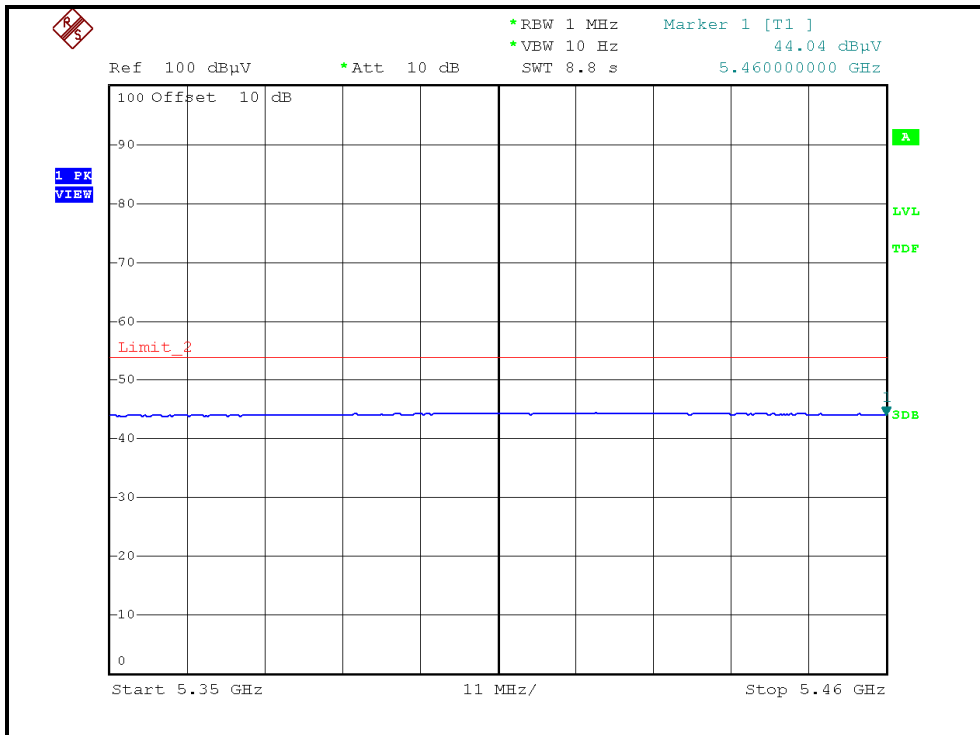
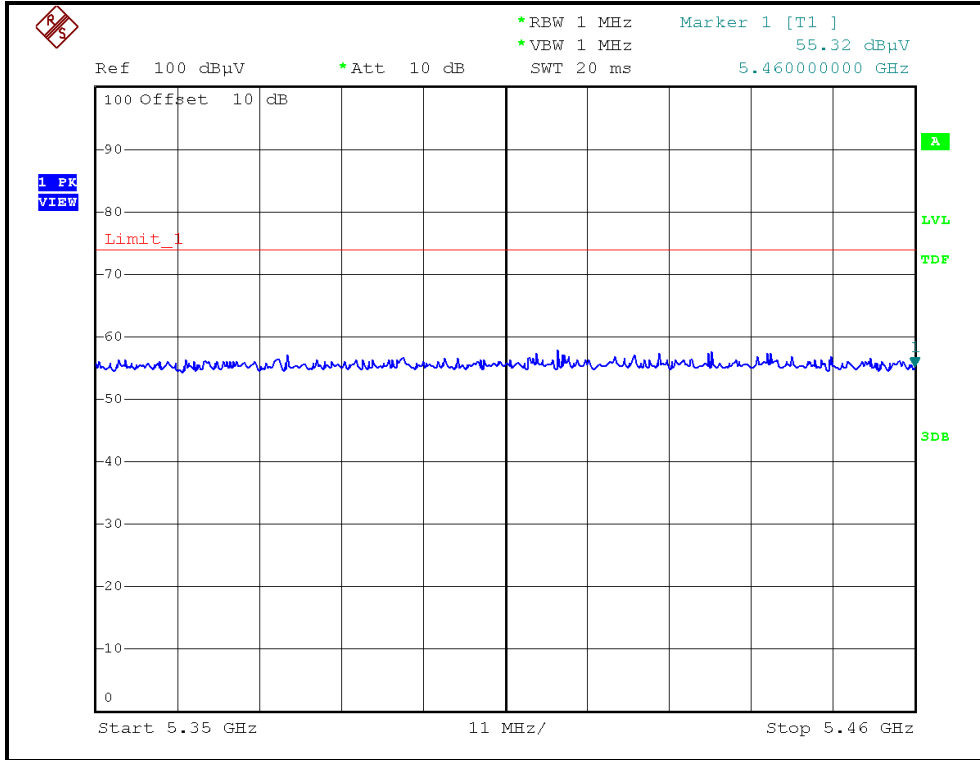
RESTRICTED BANDEDGE (802.11a MODE,CH8, VERTICAL)





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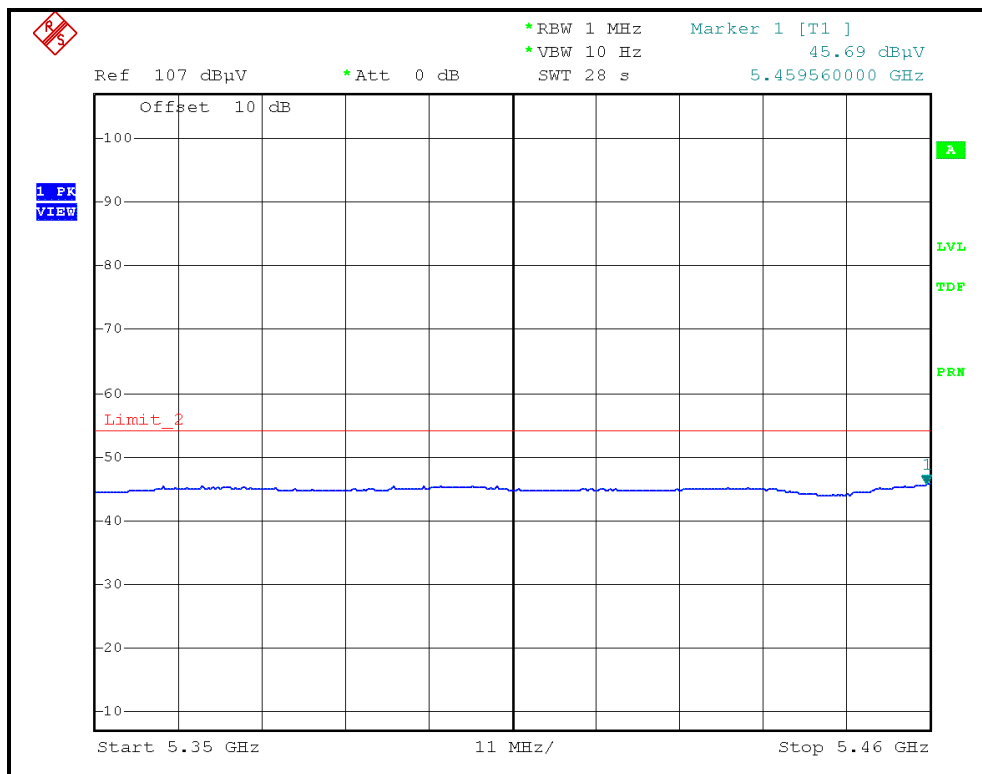
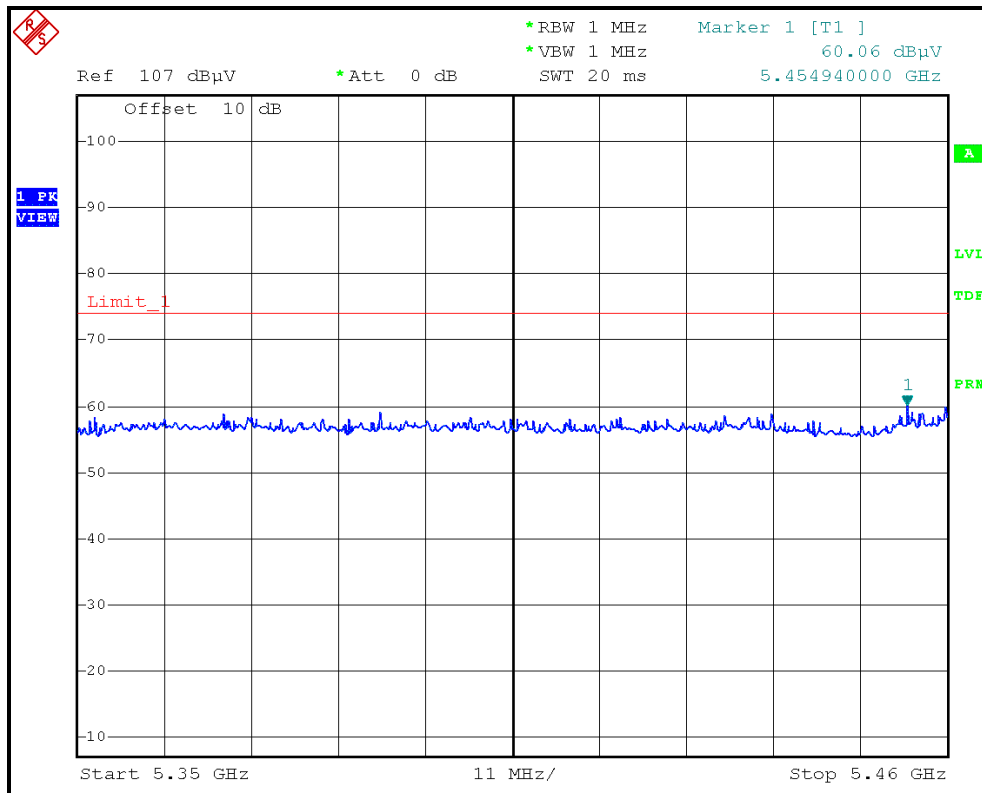
RESTRICTED BANDEDGE (802.11a MODE,CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11a MODE, CH9, VERTICAL)





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DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	42.10 PK	68.30	-26.20	1.00 H	104	9.17	32.93
2	4717.10	55.46 PK	74.00	-18.54	1.02 H	33	18.96	36.50
3	4717.10	43.05 AV	54.00	-10.95	1.02 H	33	6.55	36.50
4	*5260.00	115.40 PK			1.01 H	26	78.14	37.26
5	*5260.00	105.40 AV			1.01 H	26	68.14	37.26
6	#7013.30	54.30 PK	68.30	-14.00	1.00 H	105	11.14	43.16
7	#10520.00	54.30 PK	68.30	-14.00	1.02 H	109	7.53	46.77

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	#3506.60	42.17 PK	68.30	-26.13	1.00 V	358	9.24	32.93
2	4731.40	54.80 PK	74.00	-19.20	1.00 V	327	18.26	36.54
3	4731.40	42.93 AV	54.00	-11.07	1.00 V	327	6.39	36.54
4	*5260.00	122.45 PK			1.00 V	345	85.19	37.26
5	*5260.00	112.27 AV			1.00 V	345	75.01	37.26
6	#7013.30	54.83 PK	68.30	-13.47	1.00 V	21	11.67	43.16
7	#10520.00	55.56 PK	68.30	-12.74	1.00 V	46	8.79	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	41.23 PK	68.30	-27.07	1.00 H	105	8.22	33.01
2	*5300.00	115.20 PK			1.02 H	27	77.94	37.26
3	*5300.00	105.30 AV			1.02 H	27	68.04	37.26
4	#7066.60	53.20 PK	68.30	-15.10	1.01 H	109	10.05	43.15
5	10600.00	54.29 PK	74.00	-19.71	1.00 H	107	7.46	46.83
6	10600.00	40.40 AV	54.00	-13.60	1.00 H	107	-6.43	46.83
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	#3533.30	41.66 PK	68.30	-26.64	1.00 V	5	8.65	33.01
2	*5300.00	122.78 PK			1.00 V	240	85.52	37.26
3	*5300.00	112.26 AV			1.00 V	240	75.00	37.26
4	#7066.60	53.47 PK	68.30	-14.83	1.00 V	23	10.32	43.15
5	10600.00	54.79 PK	74.00	-19.21	1.00 V	47	7.96	46.83
6	10600.00	40.81 AV	54.00	-13.19	1.00 V	47	-6.02	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	41.90 PK	68.30	-26.40	1.00 H	102	8.85	33.05
2	*5320.00	115.10 PK			1.04 H	34	77.84	37.26
3	*5320.00	105.10 AV			1.04 H	34	67.84	37.26
4	5350.00	57.92 PK	74.00	-16.08	1.02 H	97	20.66	37.26
5	5350.00	45.32 AV	54.00	-8.68	1.02 H	97	8.06	37.26
6	#7093.30	52.13 PK	68.30	-16.17	1.00 H	108	8.98	43.15
7	10640.00	54.72 PK	74.00	-19.28	1.00 H	103	7.86	46.86
8	10640.00	41.30 AV	54.00	-12.70	1.00 H	103	-5.56	46.86

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	#3546.60	42.17 PK	68.30	-26.13	1.00 V	2	9.12	33.05
2	*5320.00	122.82 PK			1.00 V	240	85.56	37.26
3	*5320.00	112.11 AV			1.00 V	240	74.85	37.26
4	5350.00	71.23 PK	74.00	-2.77	1.00 V	7	33.97	37.26
5	5350.00	51.21 AV	54.00	-2.79	1.00 V	7	13.95	37.26
6	#7093.30	52.56 PK	68.30	-15.74	1.00 V	28	9.41	43.15
7	10640.00	54.86 PK	74.00	-19.14	1.00 V	48	8.00	46.86
8	10640.00	41.66 AV	54.00	-12.34	1.00 V	48	-5.20	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	43.10 PK	74.00	-30.90	1.04 H	102	9.69	33.41
2	3666.60	31.40 AV	54.00	-22.60	1.04 H	102	-2.01	33.41
3	5460.00	56.18 PK	74.00	-17.82	1.01 H	29	18.92	37.26
4	5460.00	43.95 AV	54.00	-10.05	1.01 H	29	6.69	37.26
5	#5470.00	61.24 PK	68.30	-7.06	1.00 H	28	23.98	37.26
6	*5500.00	117.30 PK			1.00 H	37	80.04	37.26
7	*5500.00	107.20 AV			1.00 H	37	69.94	37.26
8	7333.30	51.33 PK	74.00	-22.67	1.00 H	107	8.20	43.13
9	7333.30	40.12 AV	54.00	-13.88	1.00 H	107	-3.01	43.13
10	11000.00	55.73 PK	74.00	-18.27	1.02 H	103	8.58	47.15
11	11000.00	42.10 AV	54.00	-11.90	1.02 H	103	-5.05	47.15

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	3666.60	43.23 PK	74.00	-30.77	1.00 V	56	9.82	33.41
2	3666.60	31.76 AV	54.00	-22.24	1.00 V	56	-1.65	33.41
3	5460.00	59.84 PK	74.00	-14.16	1.00 V	304	22.58	37.26
4	5460.00	45.33 AV	54.00	-8.67	1.00 V	304	8.07	37.26
5	#5470.00	67.31 PK	68.30	-0.99	1.00 V	29	30.05	37.26
6	*5500.00	120.69 PK			1.00 V	313	83.43	37.26
7	*5500.00	110.10 AV			1.00 V	313	72.84	37.26
8	7333.30	51.74 PK	74.00	-22.26	1.00 V	21	8.61	43.13
9	7333.30	40.79 AV	54.00	-13.21	1.00 V	21	-2.34	43.13
10	11000.00	55.96 PK	74.00	-18.04	1.00 V	47	8.81	47.15
11	11000.00	42.28 AV	54.00	-11.72	1.00 V	47	-4.87	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * " : Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	41.02 PK	74.00	-32.98	1.01 H	103	7.41	33.61
2	3733.30	30.10 AV	54.00	-23.90	1.01 H	103	-3.51	33.61
3	*5600.00	116.70 PK			1.02 H	35	79.16	37.54
4	*5600.00	106.20 AV			1.02 H	35	68.66	37.54
5	7466.60	51.13 PK	74.00	-22.87	1.04 H	111	8.01	43.12
6	7466.60	41.26 AV	54.00	-12.74	1.04 H	111	-1.86	43.12
7	11200.00	56.29 PK	74.00	-17.71	1.00 H	104	9.11	47.18
8	11200.00	42.30 AV	54.00	-11.70	1.00 H	104	-4.88	47.18
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	3733.30	41.38 PK	74.00	-32.62	1.00 V	55	7.77	33.61
2	3733.30	30.27 AV	54.00	-23.73	1.00 V	55	-3.34	33.61
3	*5600.00	123.67 PK			1.00 V	313	86.13	37.54
4	*5600.00	113.13 AV			1.00 V	313	75.59	37.54
5	7466.60	51.54 PK	74.00	-22.46	1.00 V	11	8.42	43.12
6	7466.60	41.53 AV	54.00	-12.47	1.00 V	11	-1.59	43.12
7	11200.00	56.54 PK	74.00	-17.46	1.00 V	48	9.36	47.18
8	11200.00	42.68 AV	54.00	-11.32	1.00 V	48	-4.50	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

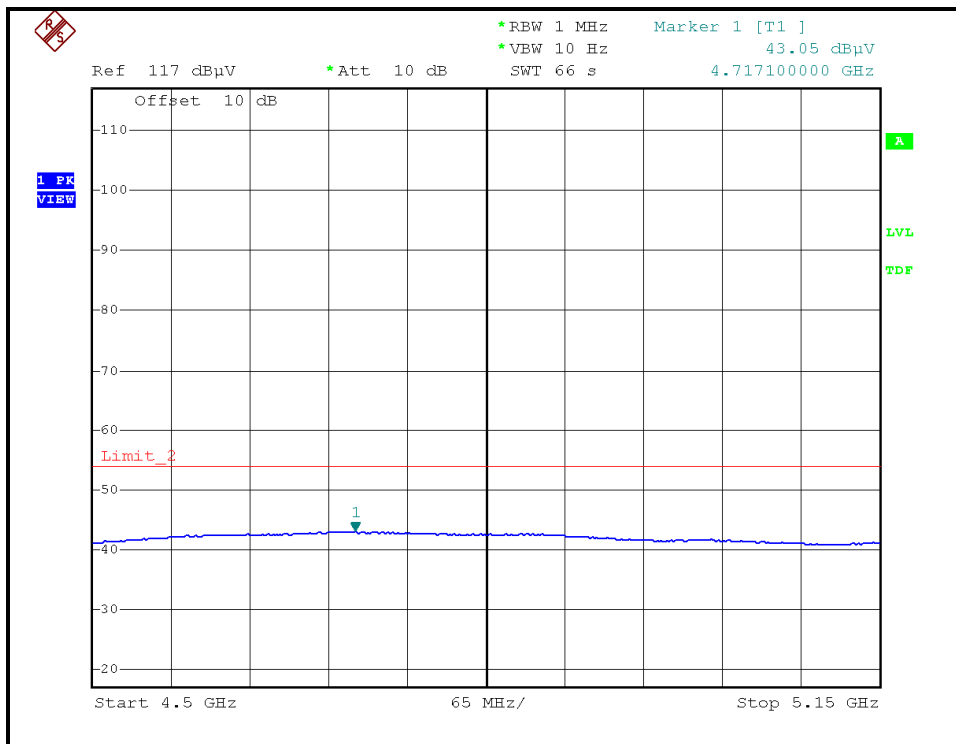
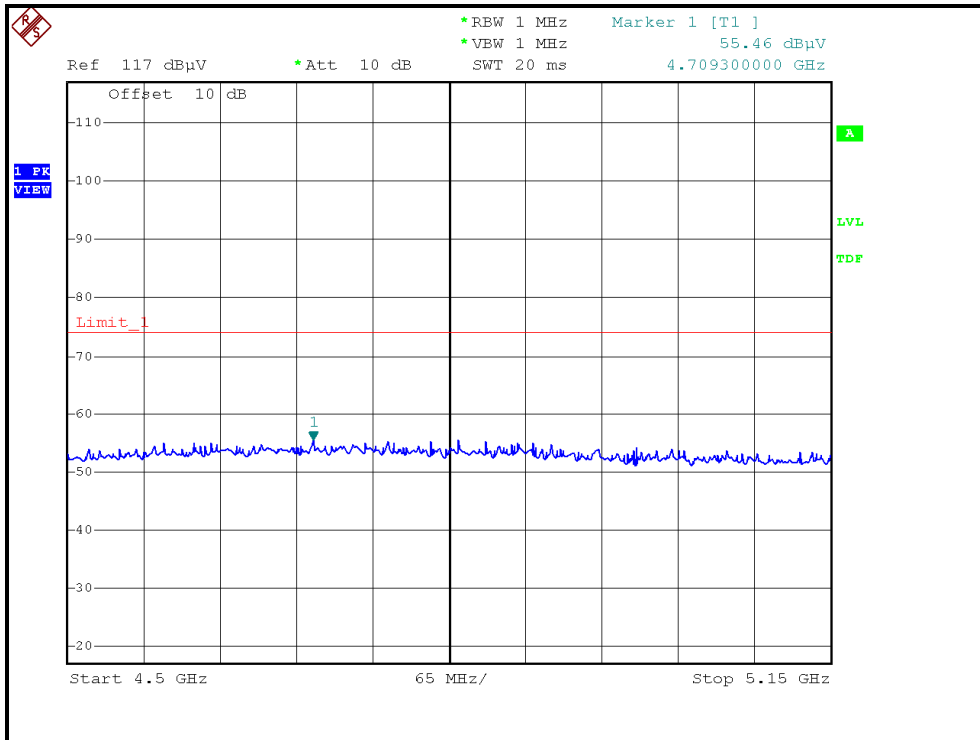
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1	3800.00	43.10 PK	74.00	-30.90	1.00 H	101	9.28	33.82
2	3800.00	30.10 AV	54.00	-23.90	1.00 H	101	-3.72	33.82
3	*5700.00	110.60 PK			1.02 H	38	72.77	37.83
4	*5700.00	99.80 AV			1.02 H	38	61.97	37.83
5	#5725.00	62.30 PK	68.30	-6.00	1.01 H	42	24.40	37.90
6	7600.00	51.72 PK	74.00	-22.28	1.01 H	114	8.41	43.31
7	7600.00	39.84 AV	54.00	-14.16	1.01 H	114	-3.47	43.31
8	11400.00	57.24 PK	74.00	-16.76	1.00 H	102	10.03	47.21
9	11400.00	43.70 AV	54.00	-10.30	1.00 H	102	-3.51	47.21
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	3800.00	43.26 PK	74.00	-30.74	1.00 V	21	9.44	33.82
2	3800.00	30.69 AV	54.00	-23.31	1.00 V	21	-3.13	33.82
3	*5700.00	117.29 PK			1.00 V	311	79.46	37.83
4	*5700.00	106.88 AV			1.00 V	311	69.05	37.83
5	#5725.00	67.70 PK	68.30	-0.60	1.00 V	115	29.80	37.90
6	7600.00	52.38 PK	74.00	-21.62	1.00 V	19	9.07	43.31
7	7600.00	40.11 AV	54.00	-13.89	1.00 V	19	-3.20	43.31
8	11400.00	57.83 PK	74.00	-16.17	1.00 V	49	10.62	47.21
9	11400.00	43.85 AV	54.00	-10.15	1.00 V	49	-3.36	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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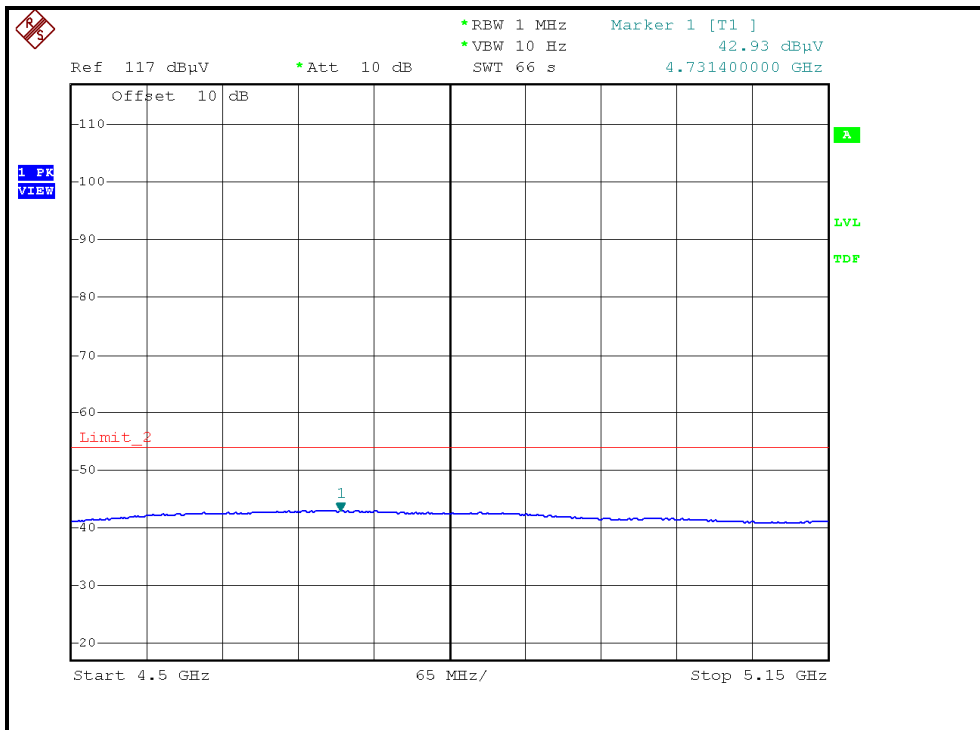
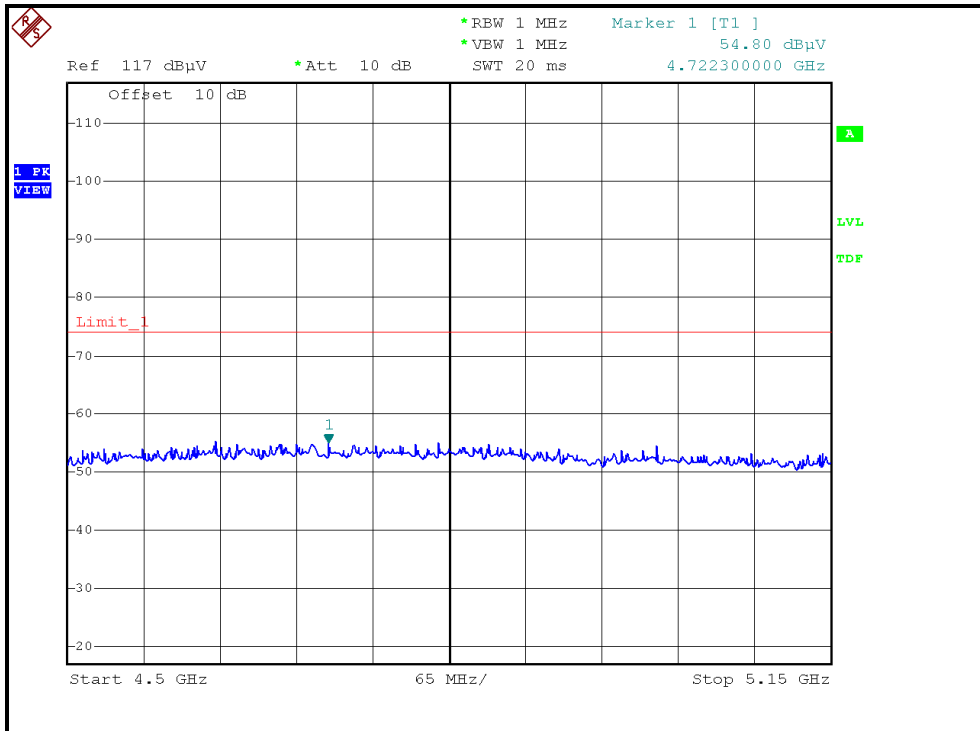
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH5, HORIZONTAL)





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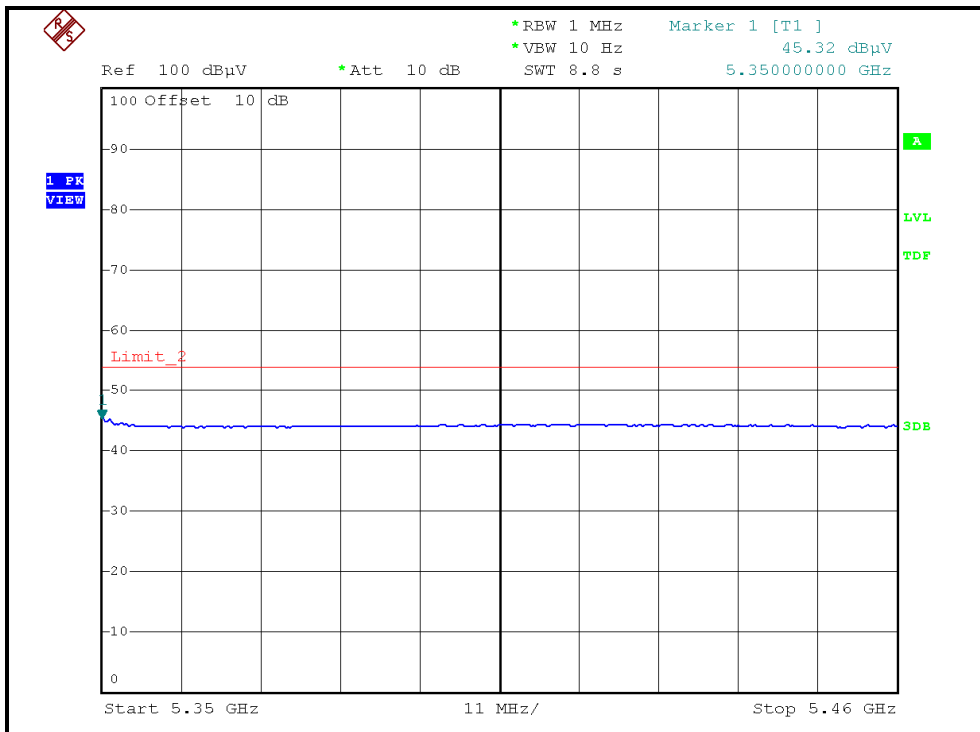
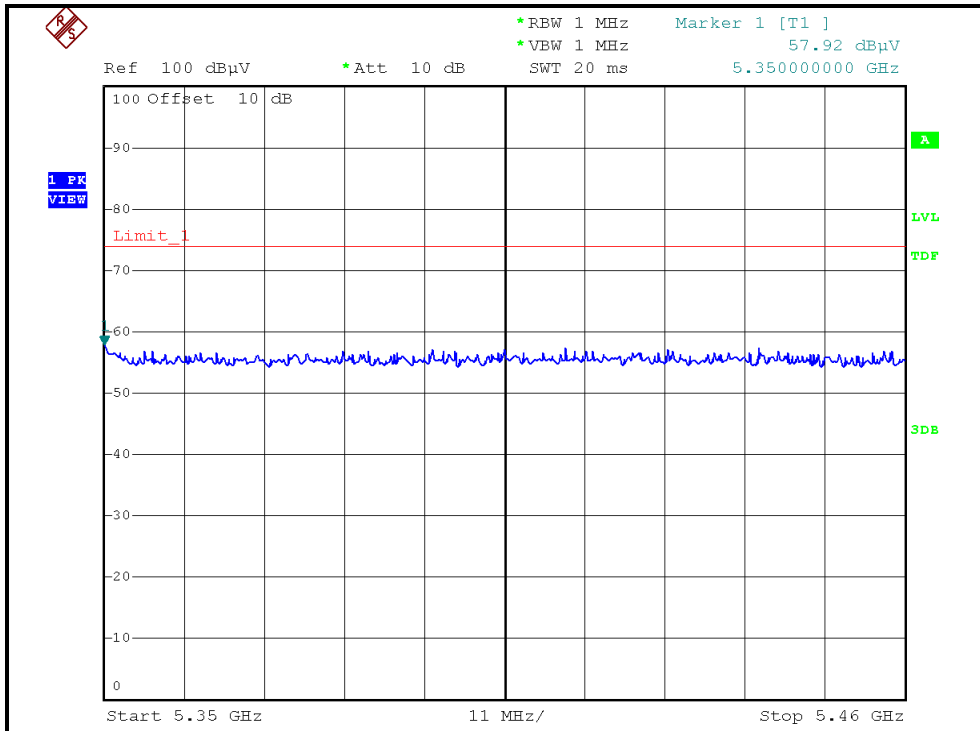
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH5, VERTICAL)





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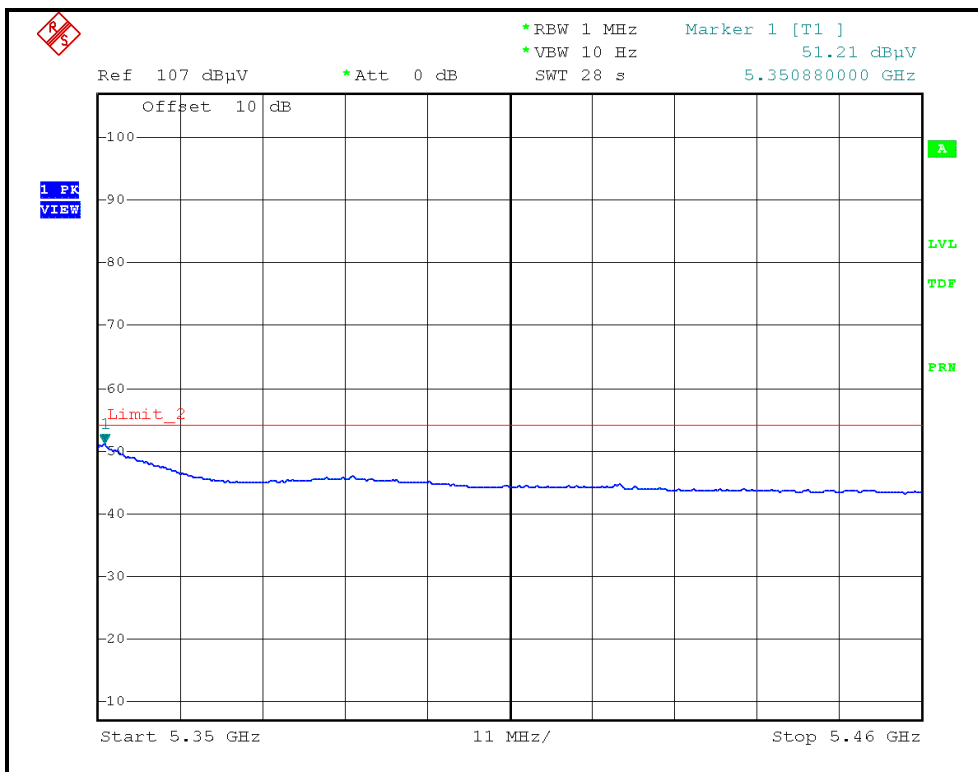
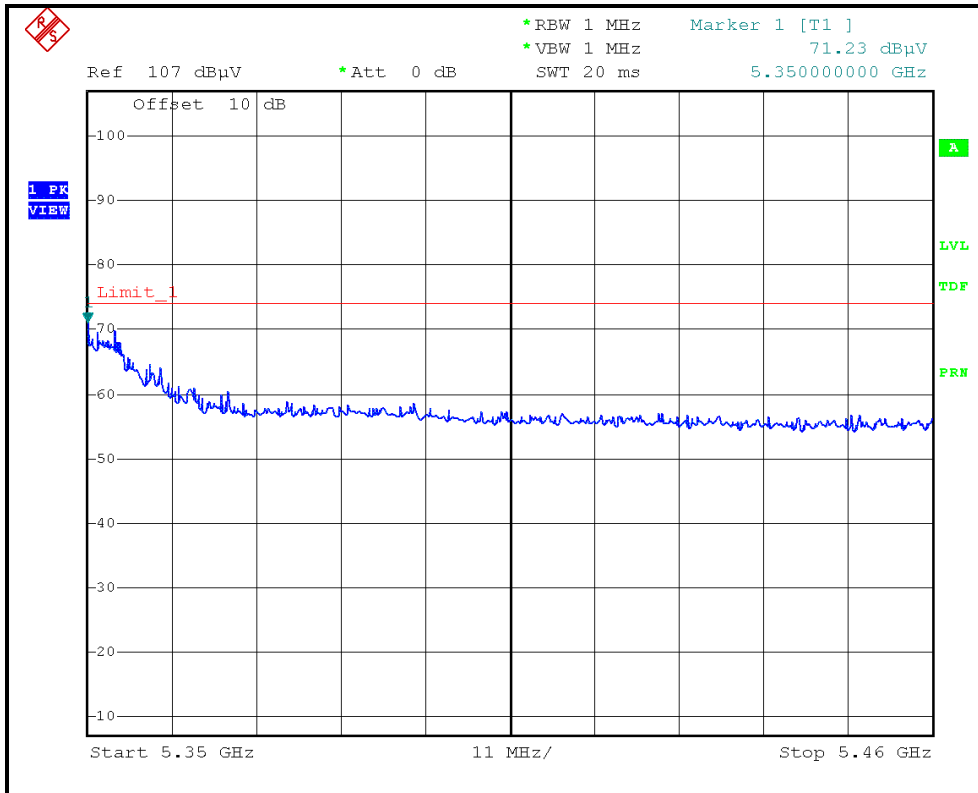
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH8, HORIZONTAL)





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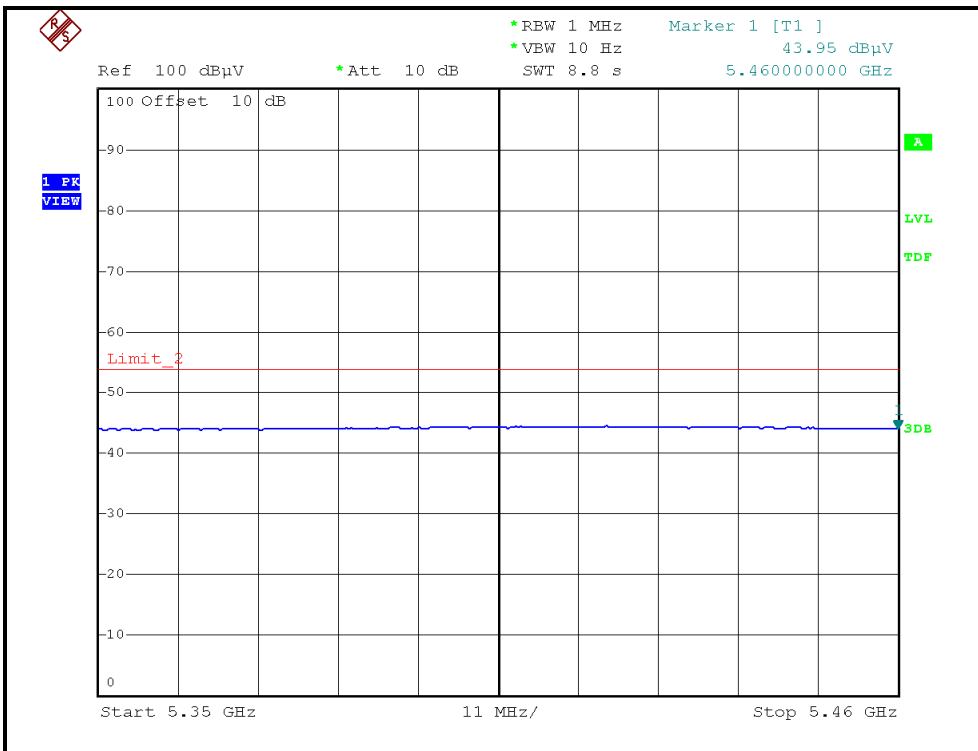
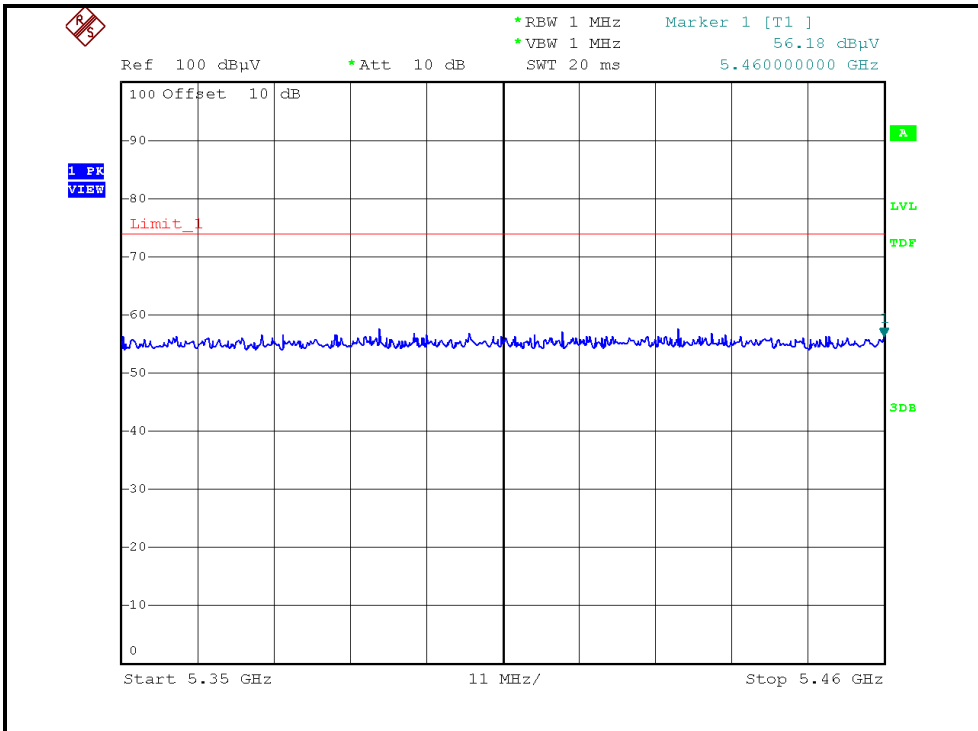
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH8, VERTICAL)





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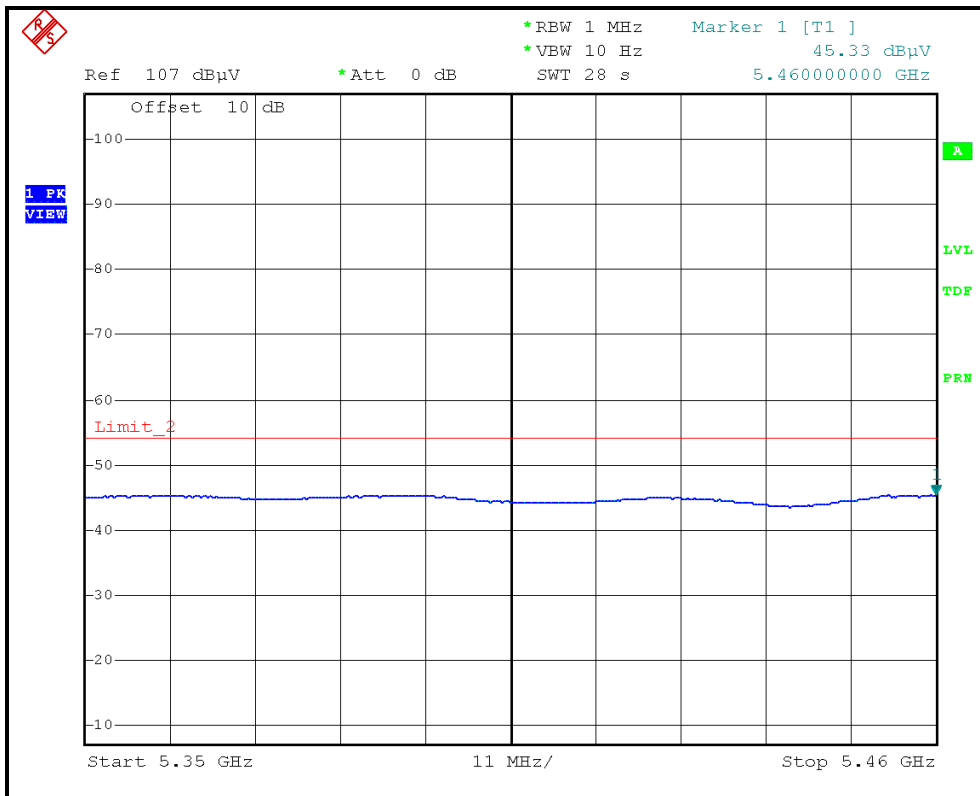
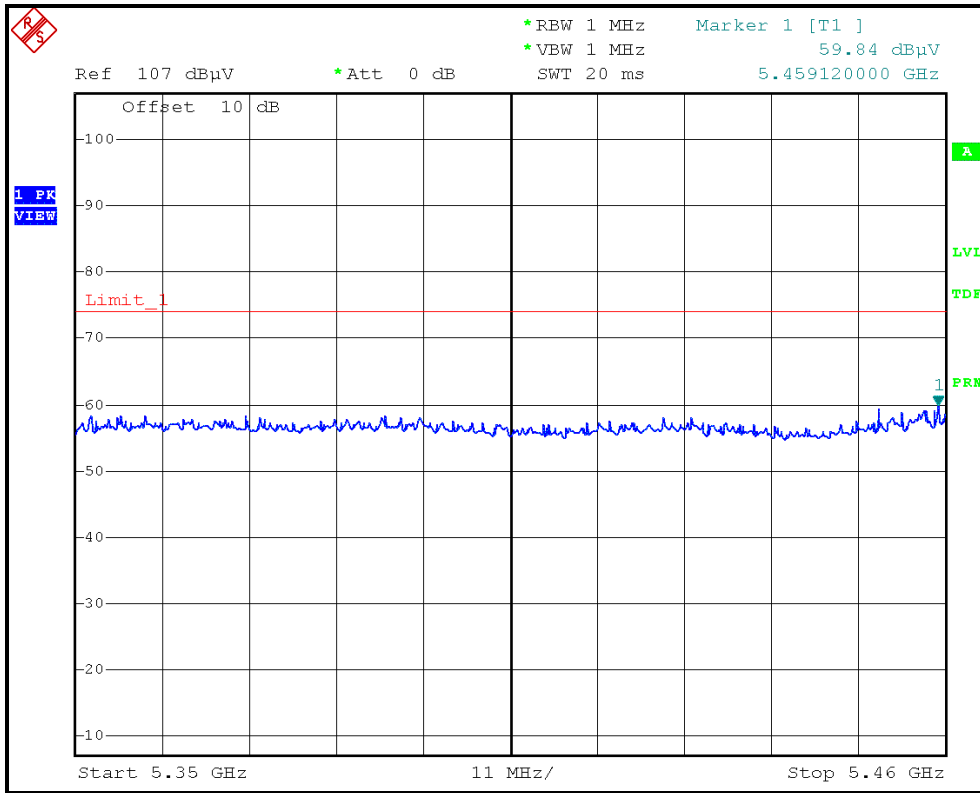
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH9, VERTICAL)





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DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3513.30	41.84 PK	68.30	-26.46	1.01 H	103	8.89	32.95
2	4709.60	55.42 PK	74.00	-18.58	1.04 H	43	18.94	36.48
3	4709.60	42.93 AV	54.00	-11.07	1.04 H	43	6.45	36.48
4	*5270.00	114.80 PK			1.02 H	36	77.54	37.26
5	*5270.00	104.10 AV			1.02 H	36	66.84	37.26
6	#7026.60	54.23 PK	68.30	-14.07	1.04 H	112	11.07	43.16
7	#10540.00	55.10 PK	68.30	-13.20	1.04 H	101	8.32	46.78

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	#3513.30	42.06 PK	68.30	-26.24	1.00 V	36	9.11	32.95
2	4715.80	55.65 PK	74.00	-18.35	1.00 V	314	19.15	36.50
3	4715.80	42.89 AV	54.00	-11.11	1.00 V	314	6.39	36.50
4	*5270.00	121.22 PK			1.00 V	312	83.96	37.26
5	*5270.00	111.21 AV			1.00 V	312	73.95	37.26
6	#7026.60	54.72 PK	68.30	-13.58	1.00 V	28	11.56	43.16
7	#10540.00	55.53 PK	68.30	-12.77	1.00 V	49	8.75	46.78

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3540.00	41.43 PK	68.30	-26.87	1.02 H	103	8.40	33.03
2	*5310.00	107.30 PK			1.02 H	39	70.04	37.26
3	*5310.00	96.20 AV			1.02 H	39	58.94	37.26
4	5350.00	56.53 PK	74.00	-17.47	1.01 H	38	19.27	37.26
5	5350.00	45.16 AV	54.00	-8.84	1.01 H	38	7.90	37.26
6	#7080.00	52.10 PK	68.30	-16.20	1.01 H	111	8.95	43.15
7	10620.00	54.10 PK	74.00	-19.90	1.04 H	102	7.25	46.85
8	10620.00	40.53 AV	54.00	-13.47	1.04 H	102	-6.32	46.85

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	#3540.00	41.83 PK	68.30	-26.47	1.00 V	350	8.80	33.03
2	*5310.00	114.08 PK			1.00 V	213	76.82	37.26
3	*5310.00	103.54 AV			1.00 V	213	66.28	37.26
4	5350.00	69.94 PK	74.00	-4.06	1.00 V	9	32.68	37.26
5	5350.00	52.68 AV	54.00	-1.32	1.00 V	9	15.42	37.26
6	#7080.00	52.37 PK	68.30	-15.93	1.00 V	17	9.22	43.15
7	10620.00	54.78 PK	74.00	-19.22	1.00 V	52	7.93	46.85
8	10620.00	41.61 AV	54.00	-12.39	1.00 V	52	-5.24	46.85

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3673.30	43.10 PK	74.00	-30.90	1.02 H	106	9.67	33.43
2	3673.30	31.50 AV	54.00	-22.50	1.02 H	106	-1.93	33.43
3	5460.00	56.00 PK	74.00	-18.00	1.02 H	44	18.74	37.26
4	5460.00	43.93 AV	54.00	-10.07	1.02 H	44	6.67	37.26
5	#5470.00	61.30 PK	68.30	-7.00	1.04 H	46	24.04	37.26
6	*5510.00	103.40 PK			1.01 H	42	66.11	37.29
7	*5510.00	92.30 AV			1.01 H	42	55.01	37.29
8	7346.60	51.20 PK	74.00	-22.80	1.04 H	103	8.07	43.13
9	7346.60	40.20 AV	54.00	-13.80	1.04 H	103	-2.93	43.13
10	11020.00	55.40 PK	74.00	-18.60	1.01 H	104	8.25	47.15
11	11020.00	41.73 AV	54.00	-12.27	1.01 H	104	-5.42	47.15

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	3673.30	43.26 PK	74.00	-30.74	1.00 V	2	9.83	33.43
2	3673.30	31.77 AV	54.00	-22.23	1.00 V	2	-1.66	33.43
3	5460.00	59.98 PK	74.00	-14.02	1.00 V	304	22.72	37.26
4	5460.00	44.44 AV	54.00	-9.56	1.00 V	304	7.18	37.26
5	#5470.00	67.61 PK	68.30	-0.69	1.00 V	29	30.35	37.26
6	*5510.00	110.48 PK			1.00 V	313	73.19	37.29
7	*5510.00	99.85 AV			1.00 V	313	62.56	37.29
8	7346.60	51.73 PK	74.00	-22.27	1.00 V	22	8.60	43.13
9	7346.60	40.76 AV	54.00	-13.24	1.00 V	22	-2.37	43.13
10	11020.00	55.89 PK	74.00	-18.11	1.00 V	49	8.74	47.15
11	11020.00	42.27 AV	54.00	-11.73	1.00 V	49	-4.88	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3726.60	40.80 PK	74.00	-33.20	1.04 H	104	7.21	33.59
2	3726.60	30.10 AV	54.00	-23.90	1.04 H	104	-3.49	33.59
3	*5590.00	116.40 PK			1.04 H	37	78.88	37.52
4	*5590.00	105.60 AV			1.04 H	37	68.08	37.52
5	7453.30	51.20 PK	74.00	-22.80	1.01 H	104	8.08	43.12
6	7453.30	40.90 AV	54.00	-13.10	1.01 H	104	-2.22	43.12
7	11180.00	56.02 PK	74.00	-17.98	1.00 H	107	8.84	47.18
8	11180.00	42.10 AV	54.00	-11.90	1.00 H	107	-5.08	47.18
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	3726.60	41.36 PK	74.00	-32.64	1.00 V	15	7.77	33.59
2	3726.60	30.26 AV	54.00	-23.74	1.00 V	15	-3.33	33.59
3	*5590.00	123.19 PK			1.00 V	313	85.67	37.52
4	*5590.00	112.36 AV			1.00 V	313	74.84	37.52
5	7453.30	51.58 PK	74.00	-22.42	1.00 V	26	8.46	43.12
6	7453.30	41.53 AV	54.00	-12.47	1.00 V	26	-1.59	43.12
7	11180.00	56.51 PK	74.00	-17.49	1.00 V	58	9.33	47.18
8	11180.00	42.63 AV	54.00	-11.37	1.00 V	58	-4.55	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

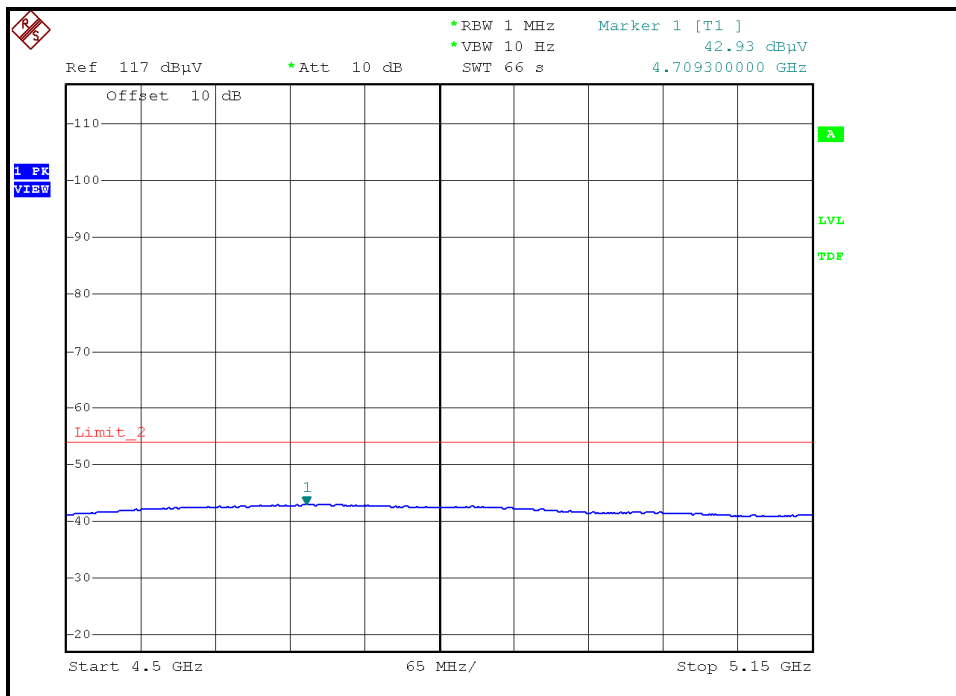
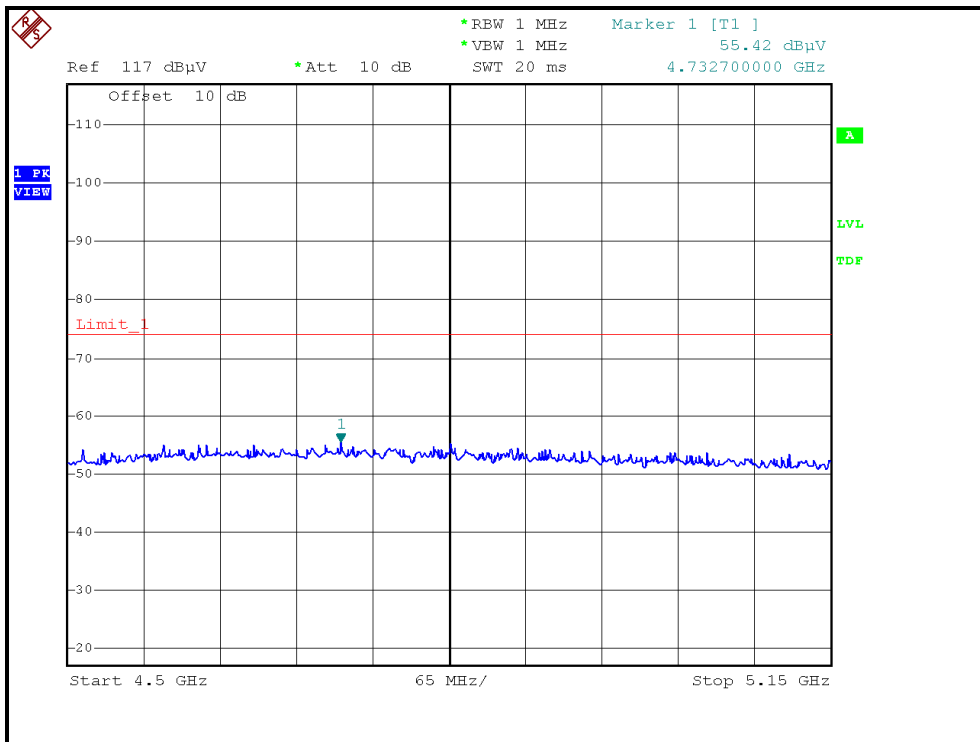
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3780.00	43.02 PK	74.00	-30.98	1.04 H	102	9.26	33.76
2	3780.00	30.30 AV	54.00	-23.70	1.04 H	102	-3.46	33.76
3	*5670.00	108.10 PK			1.00 H	31	70.36	37.74
4	*5670.00	97.30 AV			1.00 H	31	59.56	37.74
5	#5725.00	61.40 PK	68.30	-6.90	1.01 H	38	23.50	37.90
6	7560.00	52.10 PK	74.00	-21.90	1.02 H	112	8.87	43.23
7	7560.00	39.24 AV	54.00	-14.76	1.02 H	112	-3.99	43.23
8	11340.00	57.10 PK	74.00	-16.90	1.01 H	104	9.90	47.20
9	11340.00	43.20 AV	54.00	-10.80	1.01 H	104	-4.00	47.20
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	3780.00	43.19 PK	74.00	-30.81	1.00 V	7	9.43	33.76
2	3780.00	30.68 AV	54.00	-23.32	1.00 V	7	-3.08	33.76
3	*5670.00	115.21 PK			1.00 V	134	77.47	37.74
4	*5670.00	104.64 AV			1.00 V	134	66.90	37.74
5	#5725.00	67.57 PK	68.30	-0.73	1.00 V	313	29.67	37.90
6	7560.00	52.38 PK	74.00	-21.62	1.00 V	21	9.15	43.23
7	7560.00	39.77 AV	54.00	-14.23	1.00 V	21	-3.46	43.23
8	11340.00	57.86 PK	74.00	-16.14	1.00 V	66	10.66	47.20
9	11340.00	43.82 AV	54.00	-10.18	1.00 V	66	-3.38	47.20

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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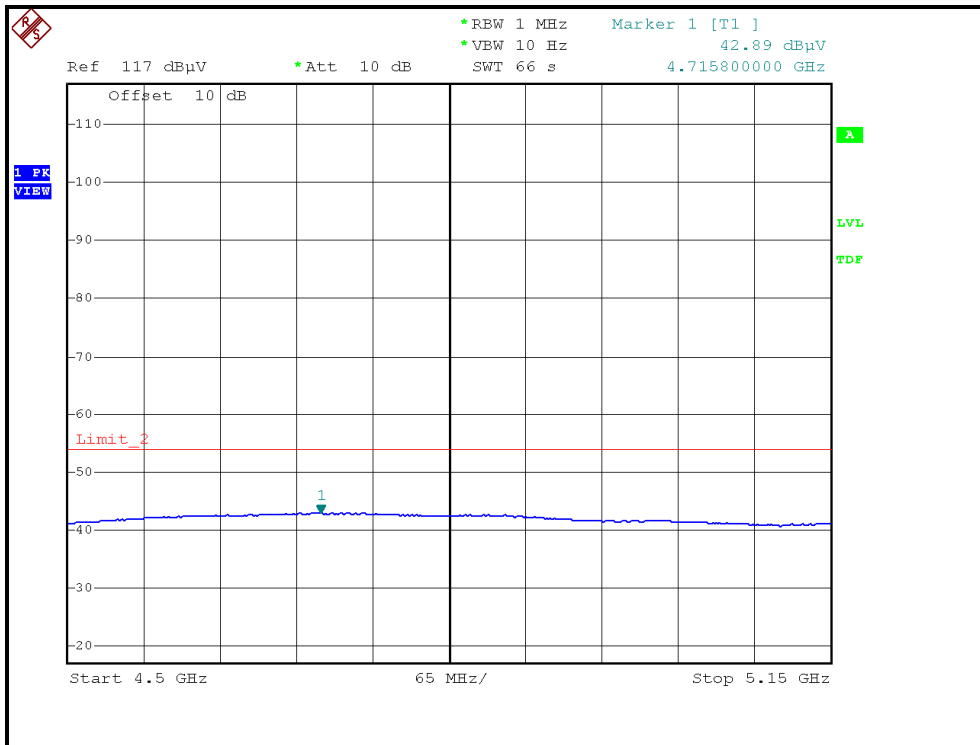
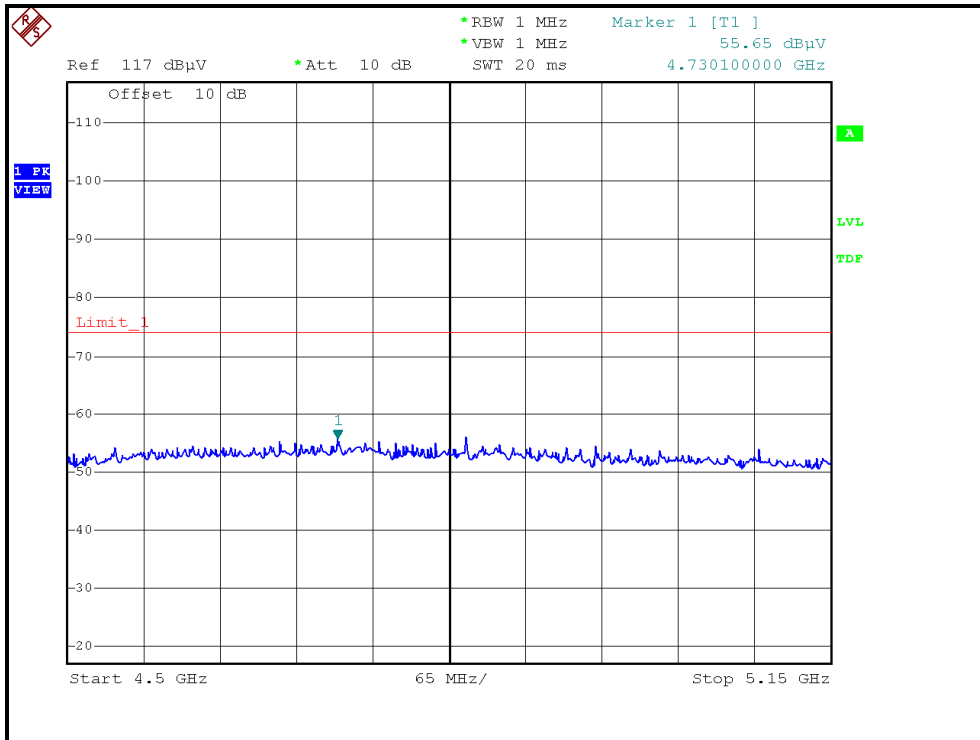
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH3, HORIZONTAL)





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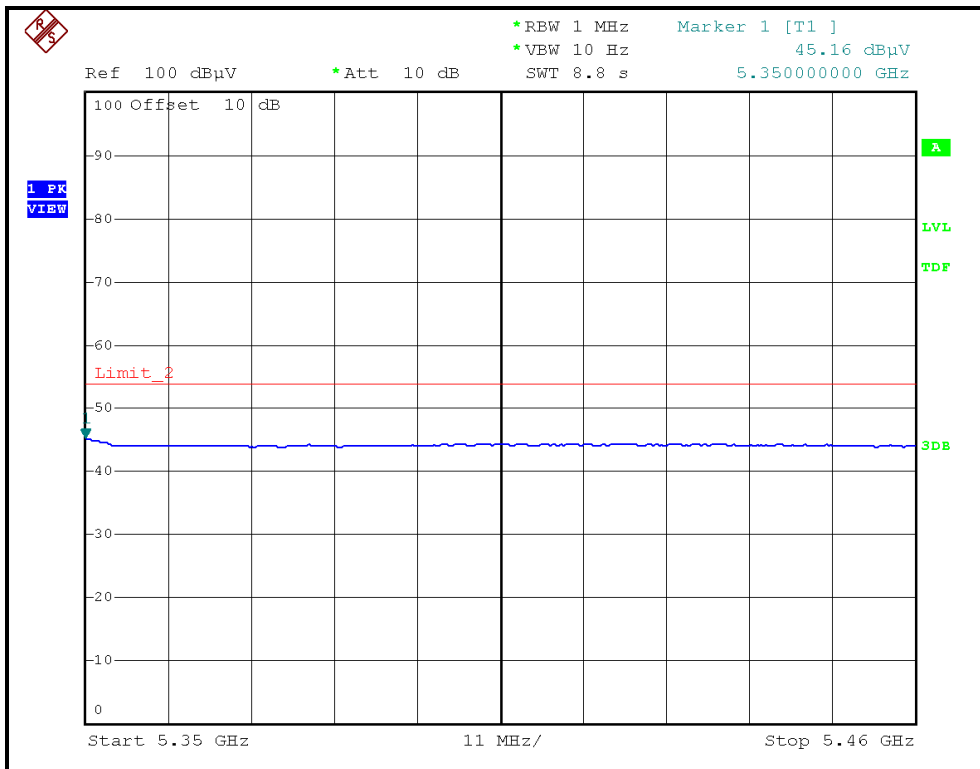
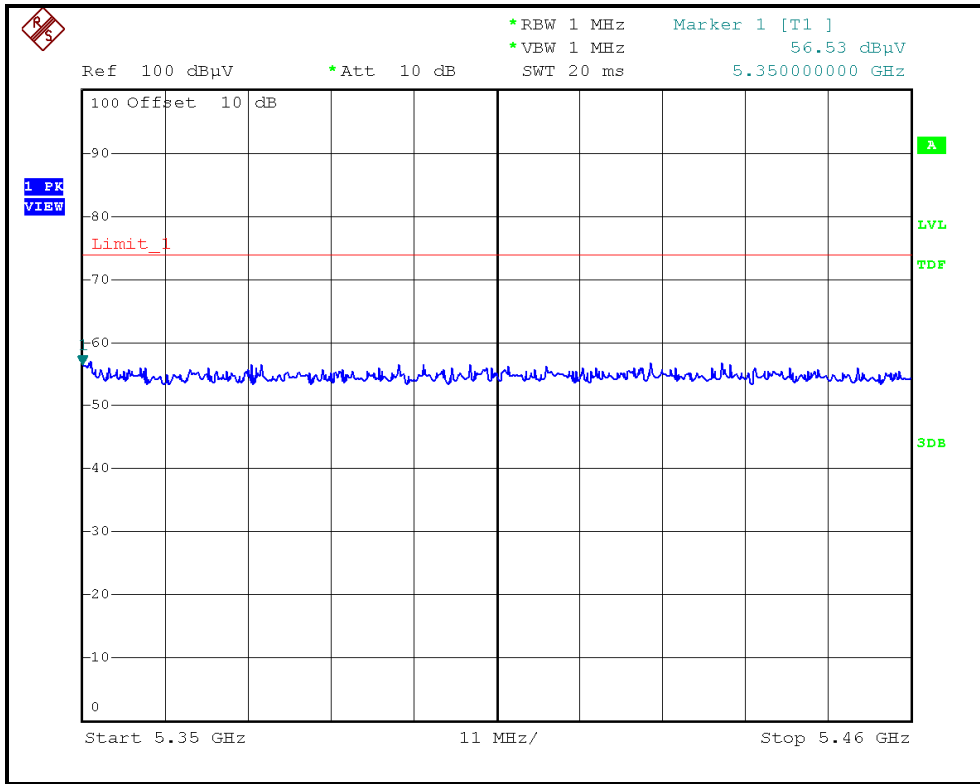
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH3, VERTICAL)





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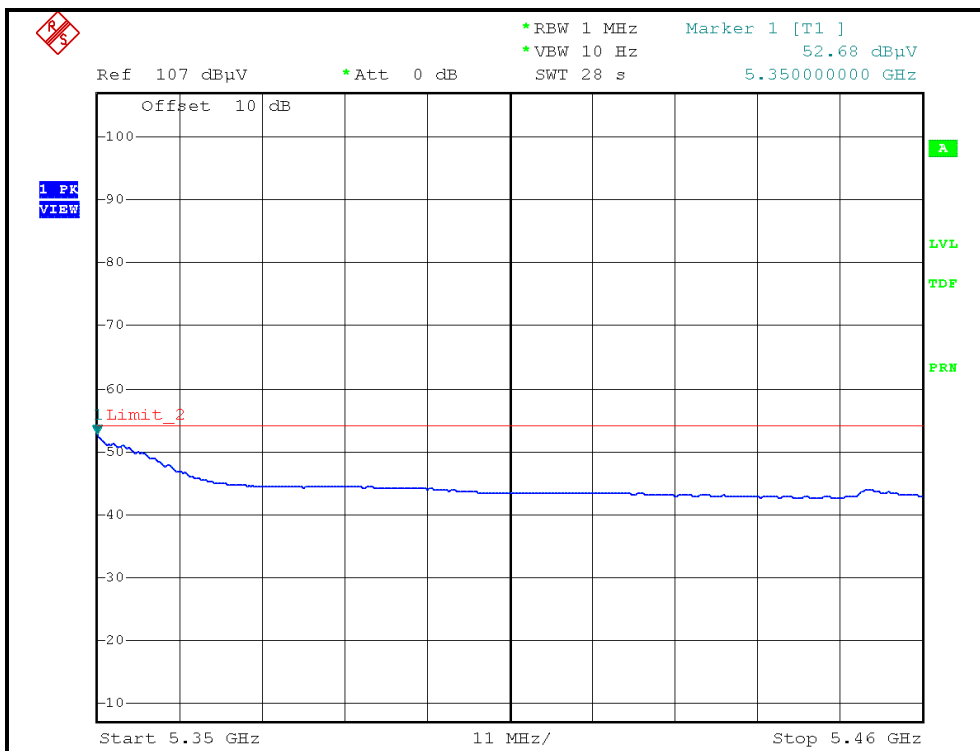
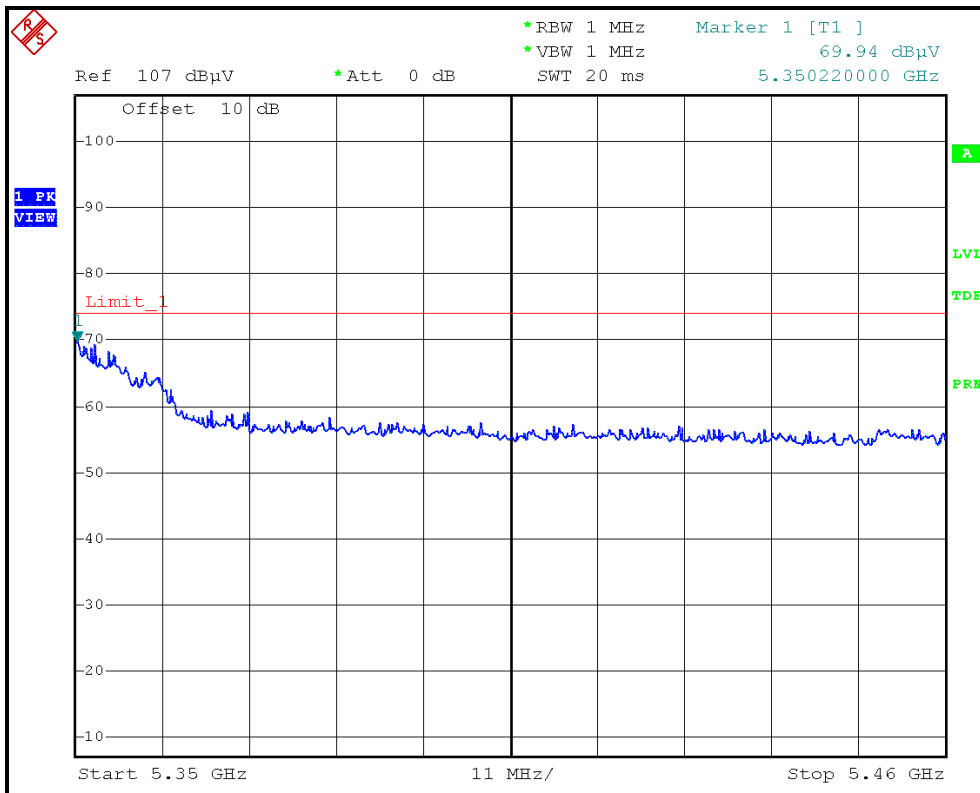
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, HORIZONTAL)





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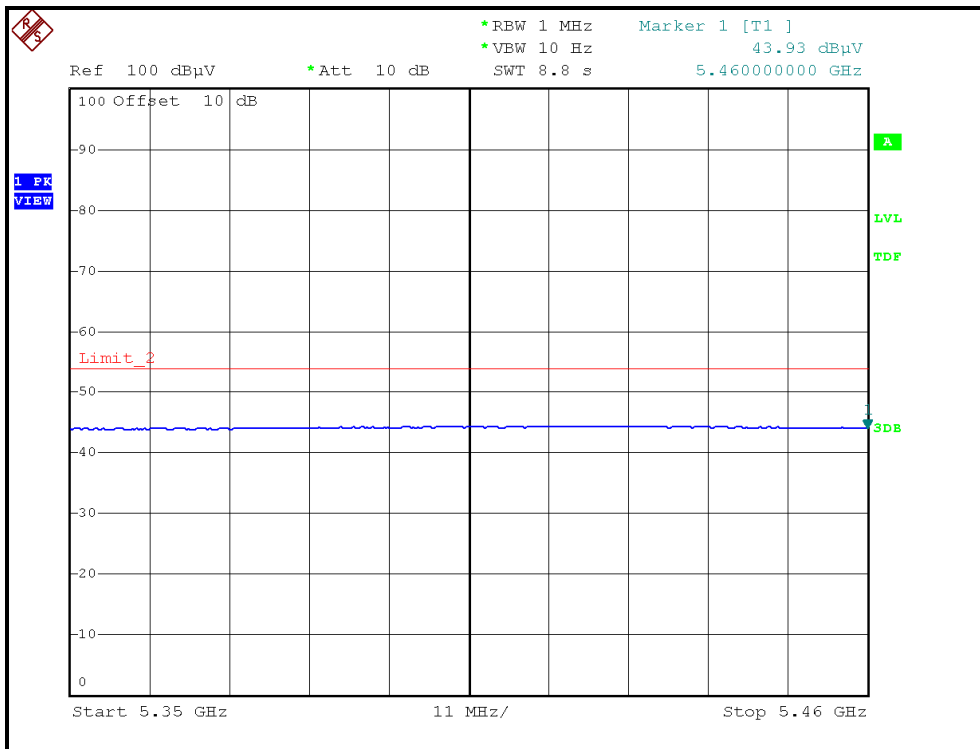
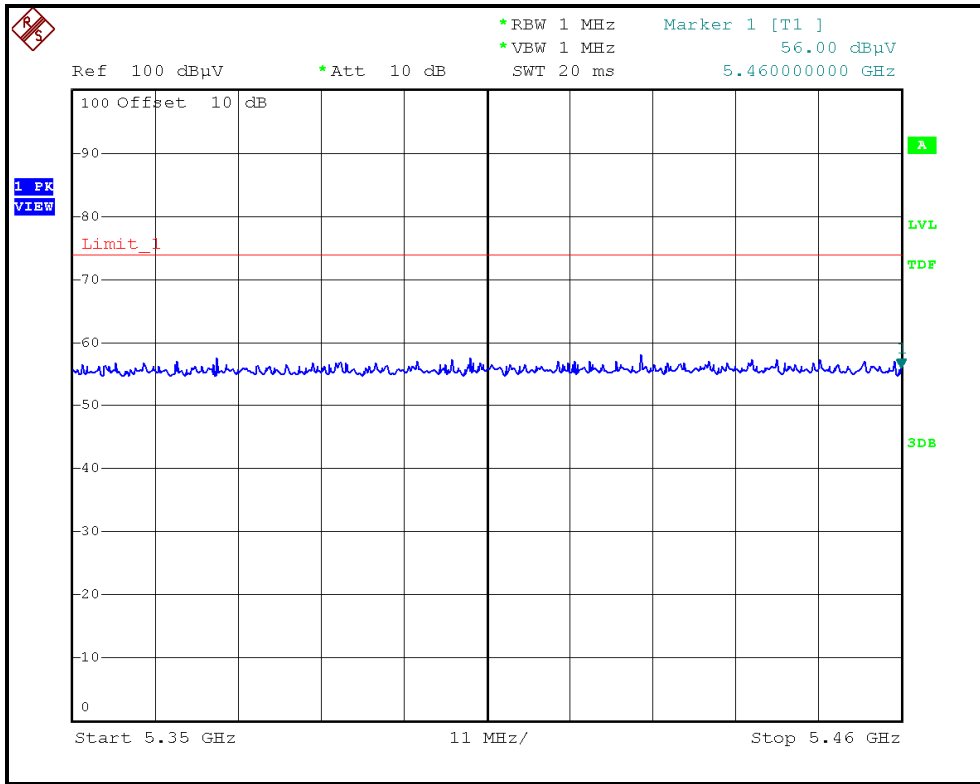
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, VERTICAL)





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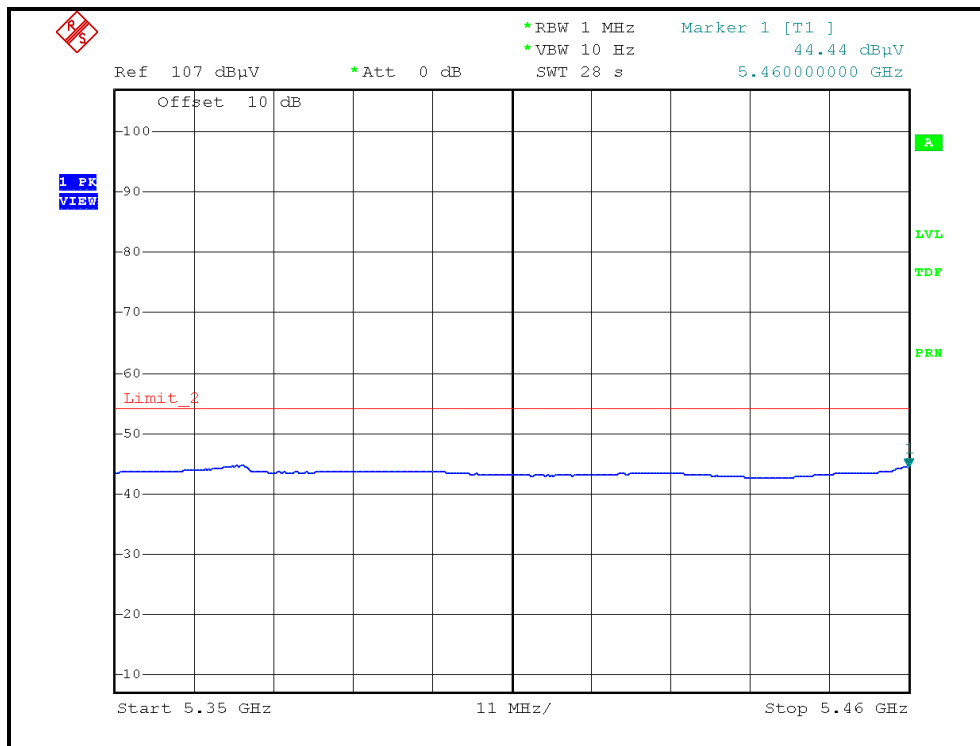
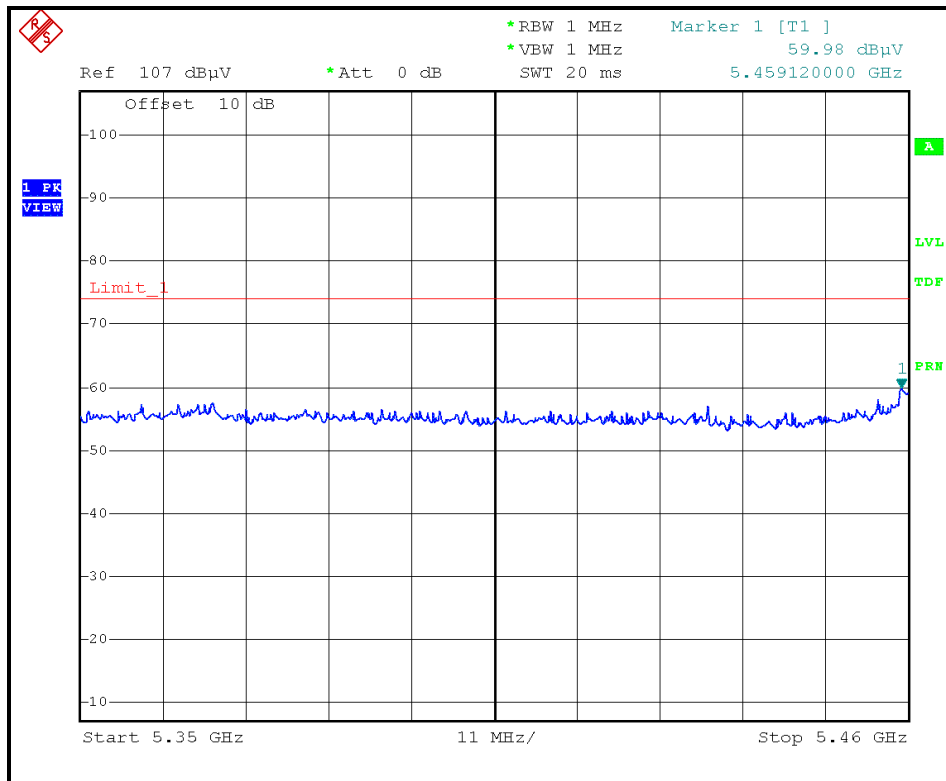
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, VERTICAL)





4.2.11 TEST RESULTS – ANTENNA 8

BELOW 1GHz WORST-CASE DATA : DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30.0deg. C, 55.0%RH 965hPa	TESTED BY	Frank Liu

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	125.00	28.75 QP	43.50	-14.75	1.47 H	157	15.68	13.07
2	250.00	35.63 QP	46.00	-10.37	1.17 H	254	21.38	14.25
3	375.00	39.42 QP	46.00	-6.58	1.09 H	337	20.61	18.81
4	650.00	44.68 QP	46.00	-1.32	1.00 H	278	19.15	25.53
5	750.00	36.87 QP	46.00	-9.13	1.08 H	237	9.96	26.91
6	875.00	38.41 QP	46.00	-7.59	1.00 H	59	9.12	29.29
7	1000.00	39.85 QP	54.00	-14.15	1.00 H	68	9.11	30.74
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	57.21	33.86 QP	40.00	-6.14	1.00 V	228	20.17	13.69
2	125.00	30.81 QP	43.50	-12.69	1.00 V	168	17.74	13.07
3	250.00	29.67 QP	46.00	-16.33	1.00 V	58	15.42	14.25
4	375.00	40.93 QP	46.00	-5.07	1.05 V	252	22.12	18.81
5	600.00	38.63 QP	46.00	-7.37	1.00 V	284	13.59	25.04
6	650.00	40.73 QP	46.00	-5.27	1.00 V	215	15.20	25.53

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	41.92 PK	68.30	-26.38	1.00 H	289	8.99	32.93
2	4727.50	54.98 PK	74.00	-19.02	1.34 H	302	18.45	36.53
3	4727.50	42.97 AV	54.00	-11.03	1.34 H	302	6.44	36.53
4	*5260.00	123.46 PK			1.33 H	300	86.20	37.26
5	*5260.00	112.55 AV			1.33 H	300	75.29	37.26
6	#7013.30	54.69 PK	68.30	-13.61	1.23 H	316	11.53	43.16
7	#10520.00	55.23 PK	68.30	-13.07	1.32 H	288	8.46	46.77

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	#3506.60	41.64 PK	68.30	-26.66	1.00 V	231	8.71	32.93
2	4727.50	55.61 PK	74.00	-18.39	1.64 V	251	19.08	36.53
3	4727.50	42.89 AV	54.00	-11.11	1.64 V	251	6.36	36.53
4	*5260.00	114.26 PK			1.62 V	255	77.00	37.26
5	*5260.00	104.70 AV			1.62 V	255	67.44	37.26
6	#7013.30	54.07 PK	68.30	-14.23	1.07 V	258	10.91	43.16
7	#10520.00	54.83 PK	68.30	-13.47	1.01 V	174	8.06	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	41.43 PK	68.30	-26.87	1.00 H	287	8.42	33.01
2	*5300.00	123.12 PK			1.33 H	295	85.86	37.26
3	*5300.00	112.72 AV			1.33 H	295	75.46	37.26
4	#7066.60	53.24 PK	68.30	-15.06	1.21 H	313	10.09	43.15
5	10600.00	54.96 PK	74.00	-19.04	1.43 H	280	8.13	46.83
6	10600.00	40.72 AV	54.00	-13.28	1.43 H	280	-6.11	46.83
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	#3533.30	40.83 PK	68.30	-27.47	1.01 V	239	7.82	33.01
2	*5300.00	114.37 PK			1.61 V	259	77.11	37.26
3	*5300.00	104.86 AV			1.61 V	259	67.60	37.26
4	#7066.60	53.01 PK	68.30	-15.29	1.05 V	254	9.86	43.15
5	10600.00	53.84 PK	74.00	-20.16	1.00 V	184	7.01	46.83
6	10600.00	39.76 AV	54.00	-14.24	1.00 V	184	-7.07	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	41.86 PK	68.30	-26.44	1.09 H	291	8.81	33.05
2	*5320.00	122.61 PK			1.33 H	295	85.35	37.26
3	*5320.00	112.02 AV			1.33 H	295	74.76	37.26
4	5350.00	67.52 PK	74.00	-6.48	1.33 H	292	30.26	37.26
5	5350.00	50.71 AV	54.00	-3.29	1.33 H	292	13.45	37.26
6	#7093.30	52.32 PK	68.30	-15.98	1.19 H	312	9.17	43.15
7	10640.00	54.67 PK	74.00	-19.33	1.41 H	296	7.81	46.86
8	10640.00	41.36 AV	54.00	-12.64	1.41 H	296	-5.50	46.86
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	#3546.60	40.22 PK	68.30	-28.08	1.01 V	233	7.17	33.05
2	*5320.00	114.17 PK			1.64 V	248	76.91	37.26
3	*5320.00	104.52 AV			1.64 V	248	67.26	37.26
4	5350.00	56.51 PK	74.00	-17.49	1.60 V	249	19.25	37.26
5	5350.00	44.83 AV	54.00	-9.17	1.60 V	249	7.57	37.26
6	#7093.30	52.01 PK	68.30	-16.29	1.02 V	221	8.86	43.15
7	10640.00	54.23 PK	74.00	-19.77	1.00 V	184	7.37	46.86
8	10640.00	40.29 AV	54.00	-13.71	1.00 V	184	-6.57	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#": The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.69	43.06 PK	74.00	-30.94	1.00 H	298	9.65	33.41
2	3666.69	31.51 AV	54.00	-22.49	1.00 H	298	-1.90	33.41
3	5460.00	62.67 PK	74.00	-11.33	1.35 H	302	25.41	37.26
4	5460.00	47.19 AV	54.00	-6.81	1.35 H	302	9.93	37.26
5	#5470.00	67.74 PK	68.30	-0.56	3.07 H	302	30.48	37.26
6	*5500.00	119.11 PK			1.34 H	299	81.85	37.26
7	*5500.00	108.60 AV			1.34 H	299	71.34	37.26
8	7333.30	51.76 PK	74.00	-22.24	1.00 H	338	8.63	43.13
9	7333.30	40.16 AV	54.00	-13.84	1.00 H	338	-2.97	43.13
10	11000.00	55.74 PK	74.00	-18.26	1.40 H	296	8.59	47.15
11	11000.00	42.08 AV	54.00	-11.92	1.40 H	296	-5.07	47.15

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	3666.60	42.83 PK	74.00	-31.17	1.04 V	181	9.42	33.41
2	3666.60	31.14 AV	54.00	-22.86	1.04 V	181	-2.27	33.41
3	5460.00	55.70 PK	74.00	-18.30	1.60 V	226	18.44	37.26
4	5460.00	44.14 AV	54.00	-9.86	1.60 V	226	6.88	37.26
5	#5470.00	60.30 PK	68.30	-8.00	1.60 V	226	23.04	37.26
6	*5500.00	110.10 PK			1.61 V	223	72.84	37.26
7	*5500.00	100.03 AV			1.61 V	223	62.77	37.26
8	7333.30	51.24 PK	74.00	-22.76	1.02 V	201	8.11	43.13
9	7333.30	39.72 AV	54.00	-14.28	1.02 V	201	-3.41	43.13
10	11000.00	55.24 PK	74.00	-18.76	1.01 V	184	8.09	47.15
11	11000.00	41.83 AV	54.00	-12.17	1.01 V	184	-5.32	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	41.98 PK	74.00	-32.02	1.07 H	298	8.37	33.61
2	3733.30	30.28 AV	54.00	-23.72	1.07 H	298	-3.33	33.61
3	*5600.00	120.98 PK			1.32 H	299	83.44	37.54
4	*5600.00	110.99 AV			1.32 H	299	73.45	37.54
5	7466.60	51.92 PK	74.00	-22.08	1.04 H	336	8.80	43.12
6	7466.60	40.82 AV	54.00	-13.18	1.04 H	336	-2.30	43.12
7	11200.00	59.76 PK	74.00	-14.24	1.24 H	296	12.58	47.18
8	11200.00	44.53 AV	54.00	-9.47	1.24 H	296	-2.65	47.18
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	3733.30	41.31 PK	74.00	-32.69	1.00 V	184	7.70	33.61
2	3733.30	30.12 AV	54.00	-23.88	1.00 V	184	-3.49	33.61
3	*5600.00	112.03 PK			1.62 V	240	74.49	37.54
4	*5600.00	102.23 AV			1.62 V	240	64.69	37.54
5	7466.60	51.34 PK	74.00	-22.66	1.04 V	182	8.22	43.12
6	7466.60	40.26 AV	54.00	-13.74	1.04 V	182	-2.86	43.12
7	11200.00	59.31 PK	74.00	-14.69	1.01 V	251	12.13	47.18
8	11200.00	43.11 AV	54.00	-10.89	1.01 V	251	-4.07	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

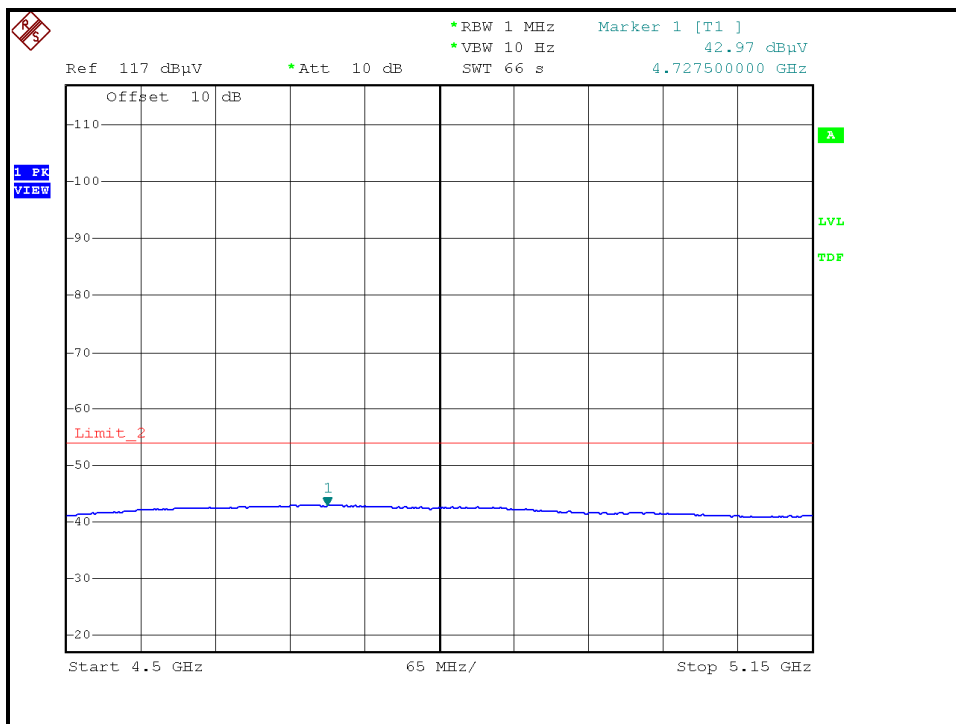
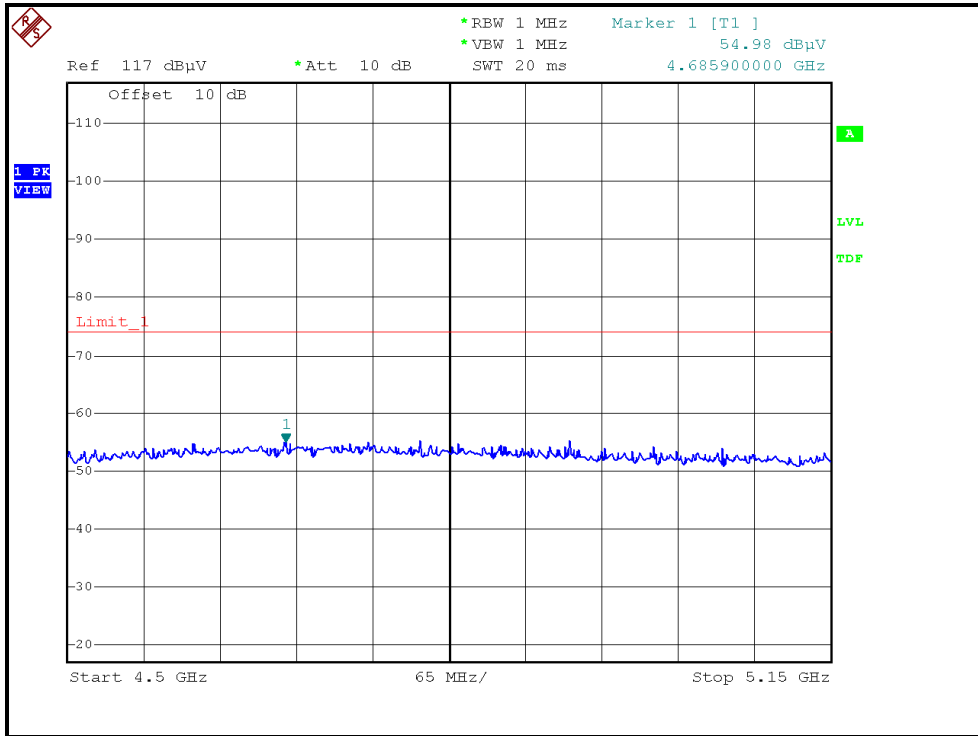
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	42.82 PK	74.00	-31.18	1.48 H	312	9.00	33.82
2	3800.00	30.23 AV	54.00	-23.77	1.48 H	312	-3.59	33.82
3	*5700.00	117.29 PK			1.22 H	312	79.46	37.83
4	*5700.00	107.16 AV			1.22 H	312	69.33	37.83
5	#5725.00	67.49 PK	68.30	-0.81	1.21 H	311	29.59	37.90
6	7600.00	52.06 PK	74.00	-21.94	1.18 H	323	8.75	43.31
7	7600.00	39.49 AV	54.00	-14.51	1.18 H	323	-3.82	43.31
8	11400.00	57.62 PK	74.00	-16.38	1.26 H	292	10.41	47.21
9	11400.00	43.62 AV	54.00	-10.38	1.26 H	292	-3.59	47.21
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	3800.00	42.54 PK	74.00	-31.46	1.02 V	181	8.72	33.82
2	3800.00	30.10 AV	54.00	-23.90	1.02 V	181	-3.72	33.82
3	*5700.00	109.80 PK			1.62 V	251	71.97	37.83
4	*5700.00	99.54 AV			1.62 V	251	61.71	37.83
5	#5725.00	60.10 PK	68.30	-8.20	1.61 V	224	22.20	37.90
6	7600.00	51.86 PK	74.00	-22.14	1.01 V	180	8.55	43.31
7	7600.00	39.12 AV	54.00	-14.88	1.01 V	180	-4.19	43.31
8	11400.00	57.24 PK	74.00	-16.76	1.01 V	184	10.03	47.21
9	11400.00	42.13 AV	54.00	-11.87	1.01 V	184	-5.08	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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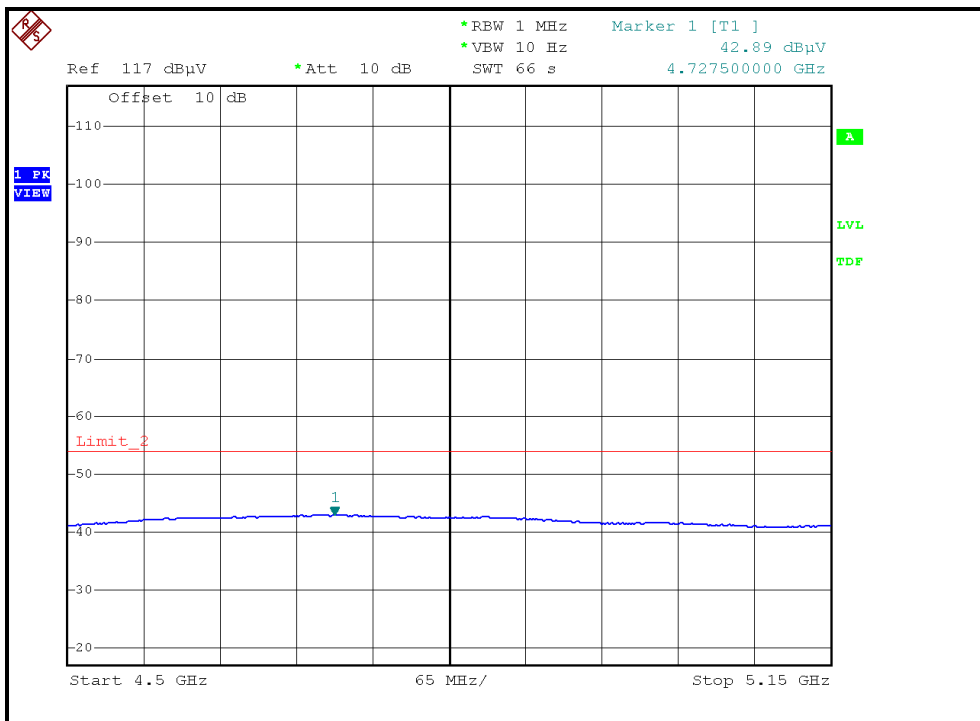
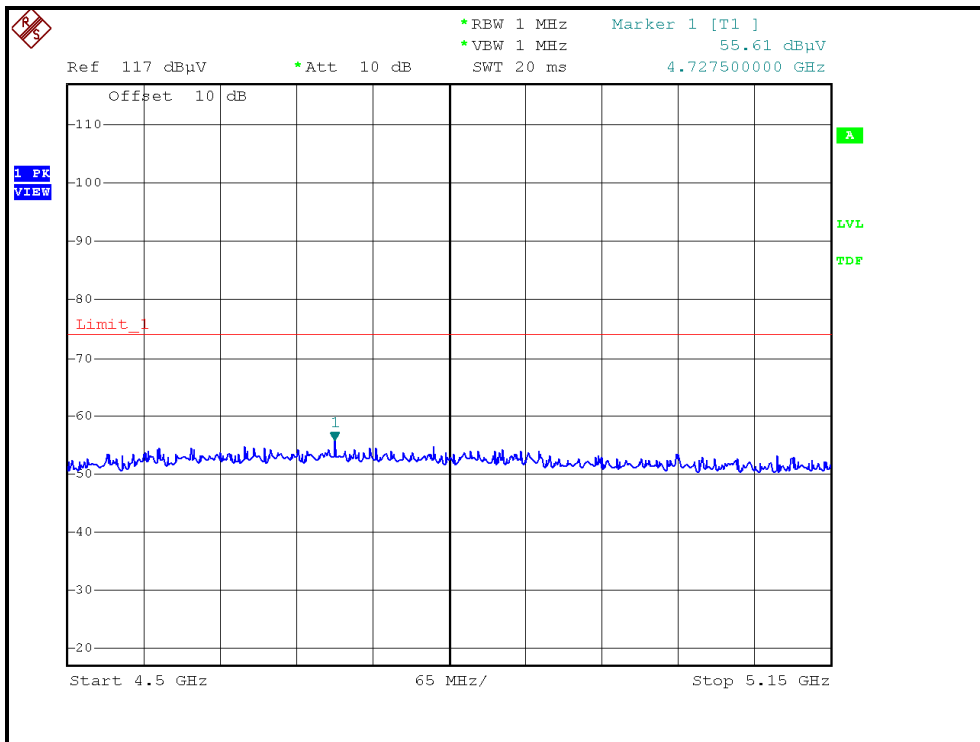
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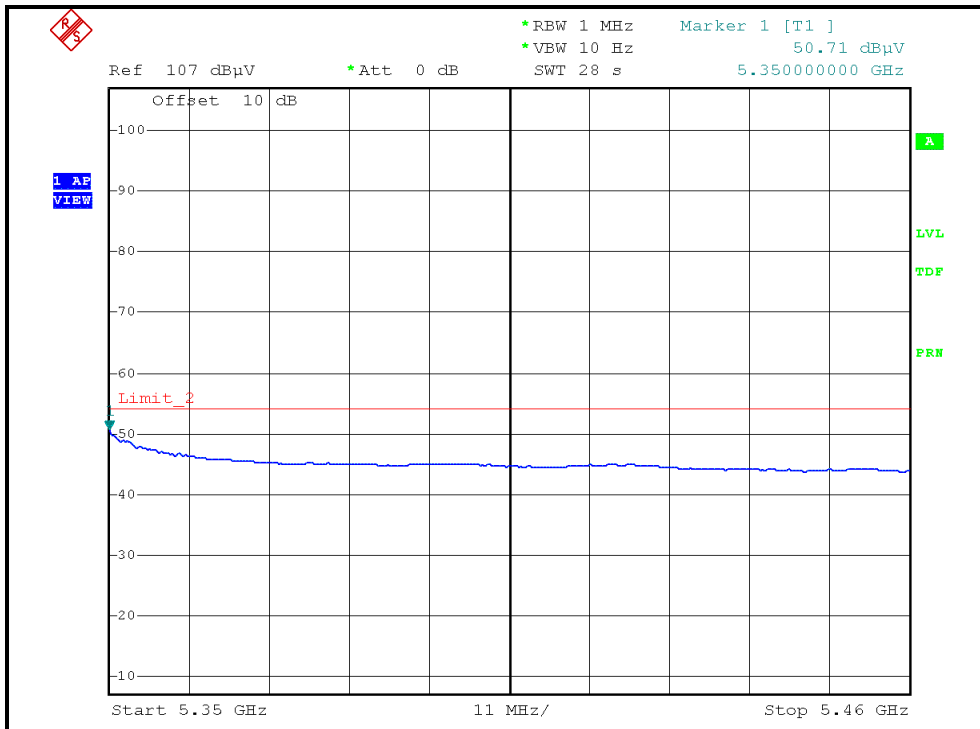
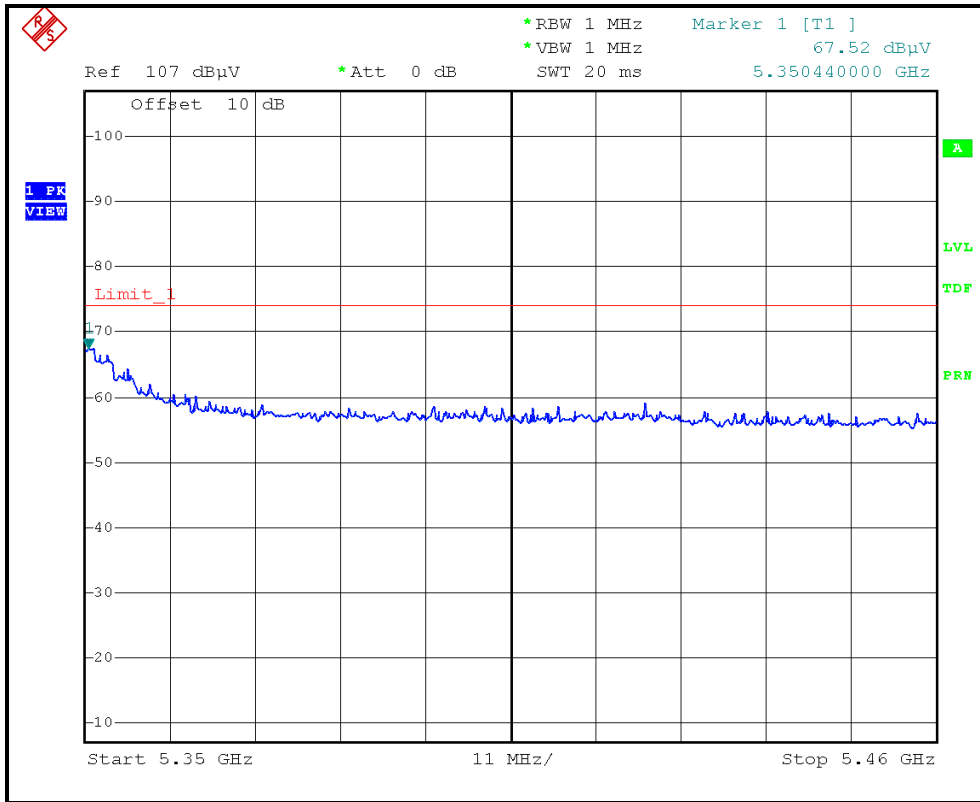
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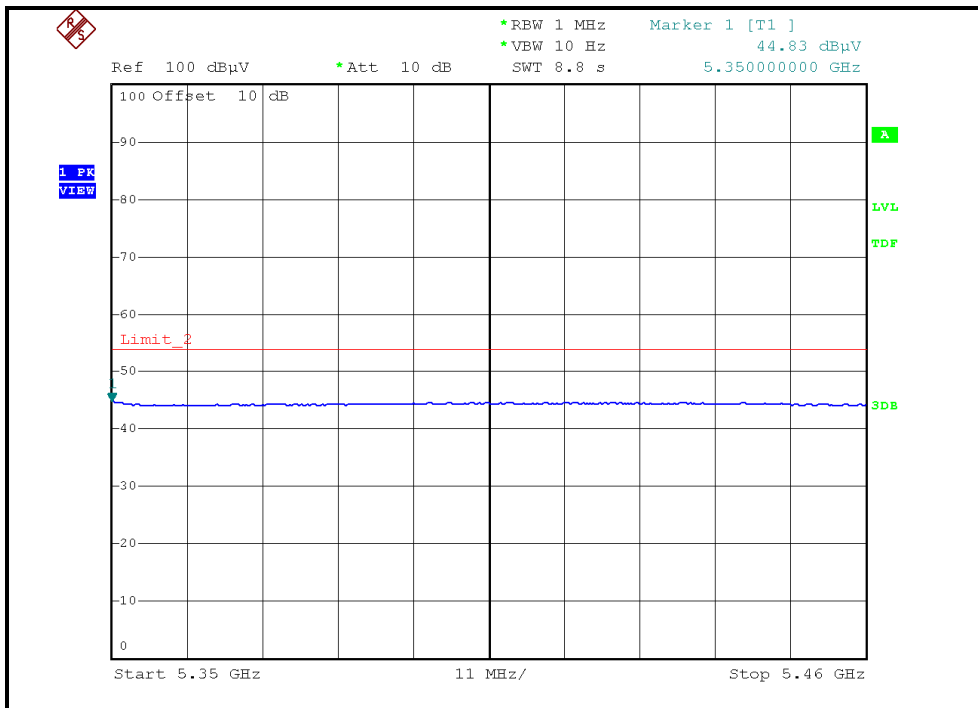
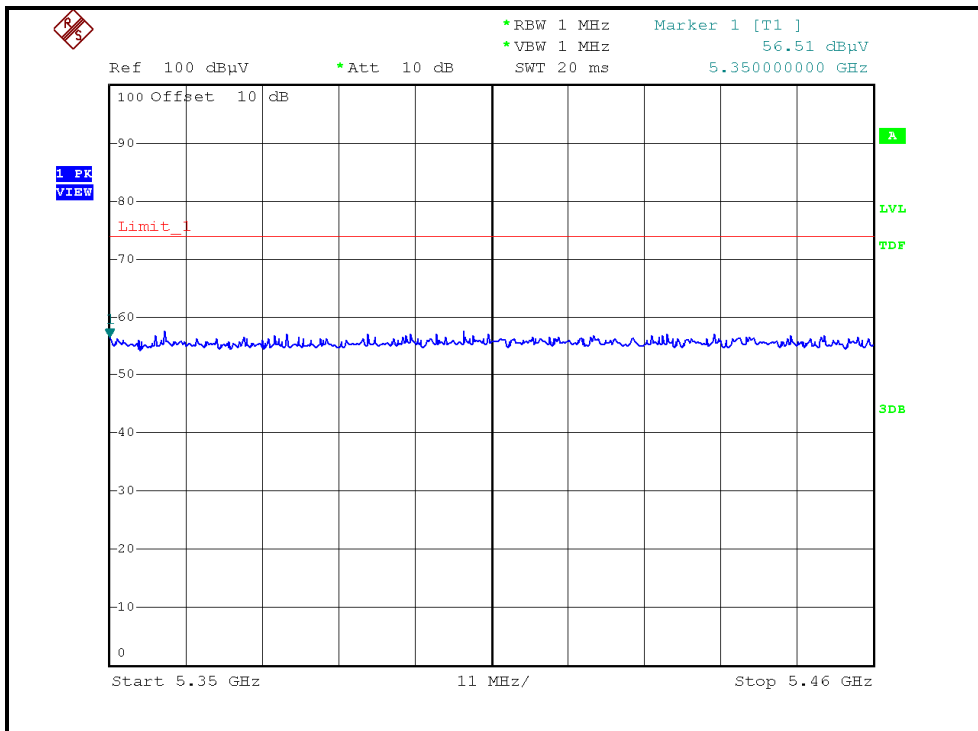
RESTRICTED BANDEGE (802.11a MODE, CH8, HORIZONTAL)





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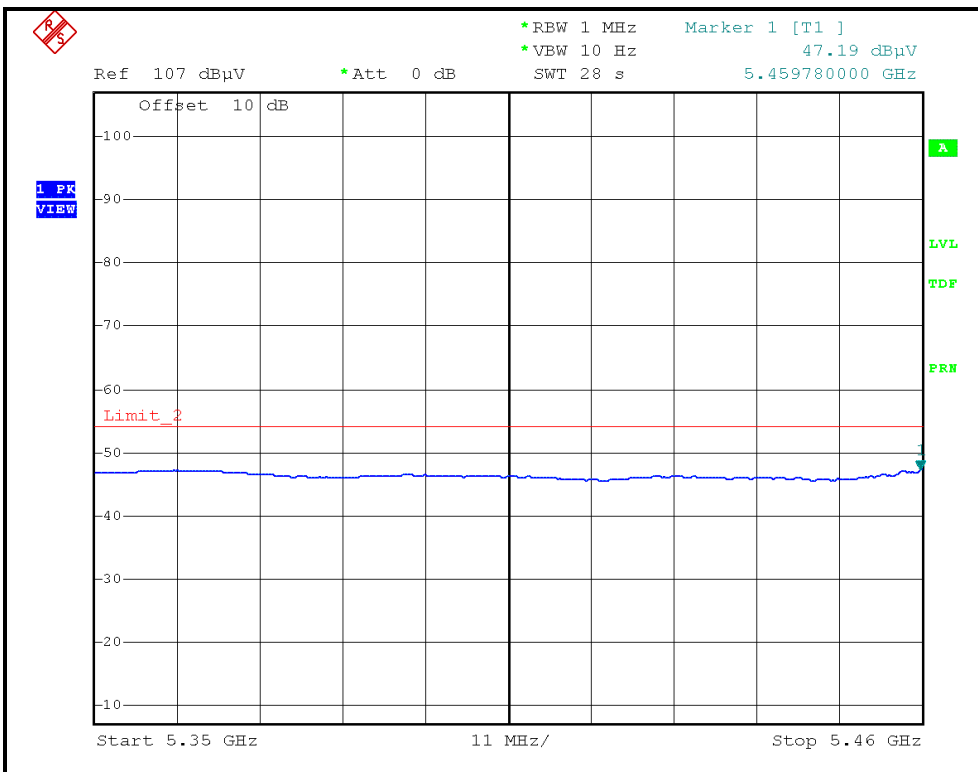
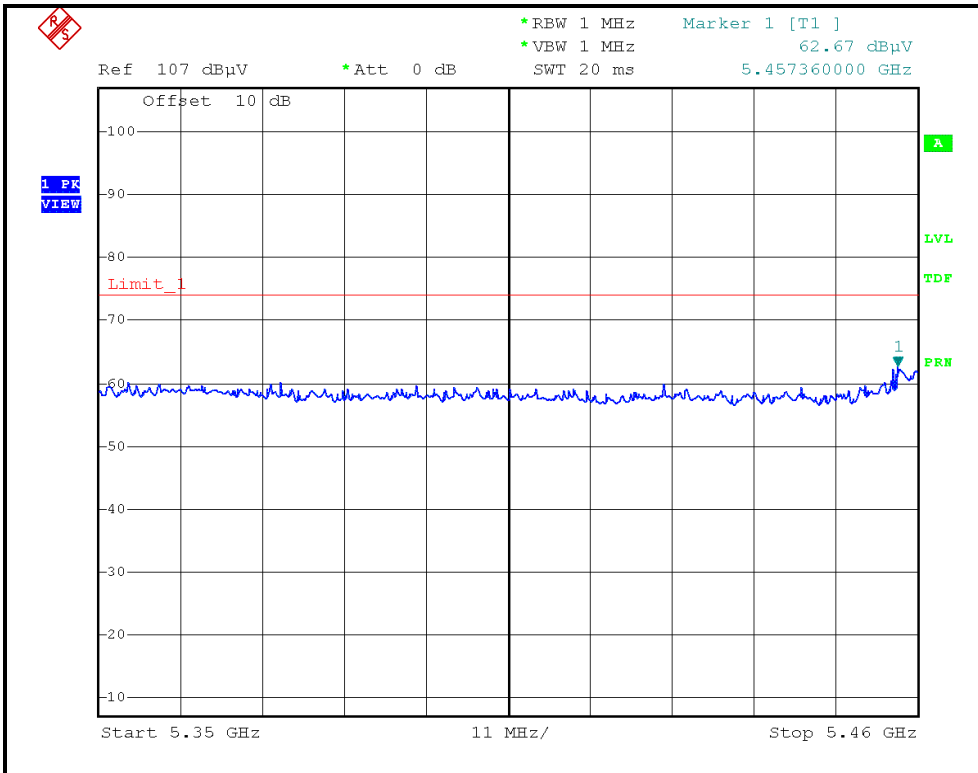
RESTRICTED BANDEDGE (802.11a MODE,CH8, VERTICAL)





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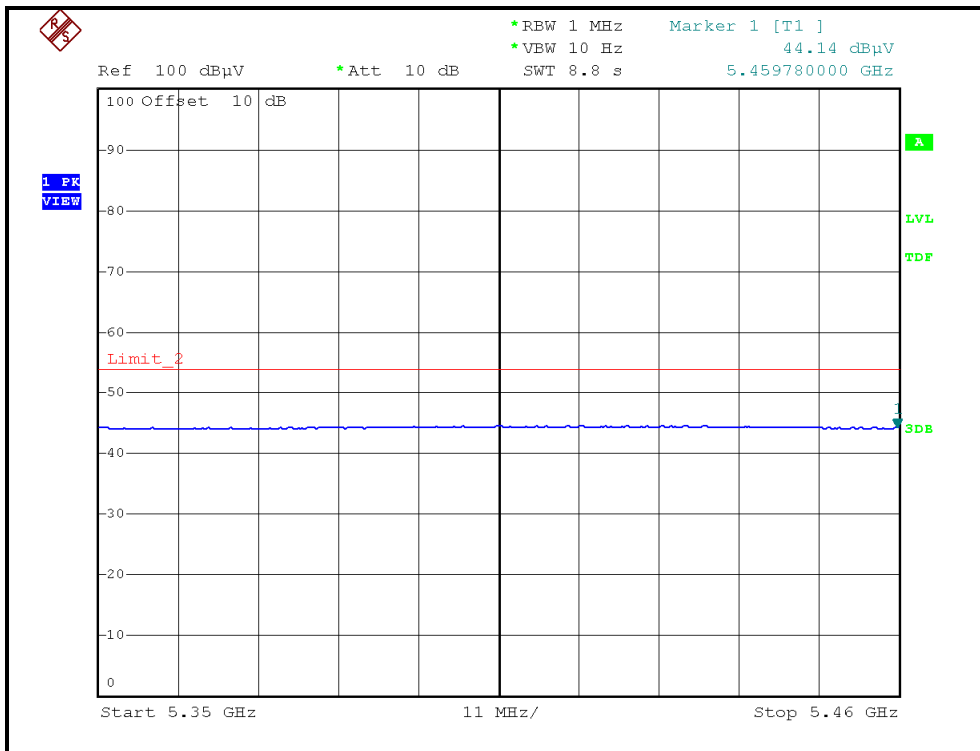
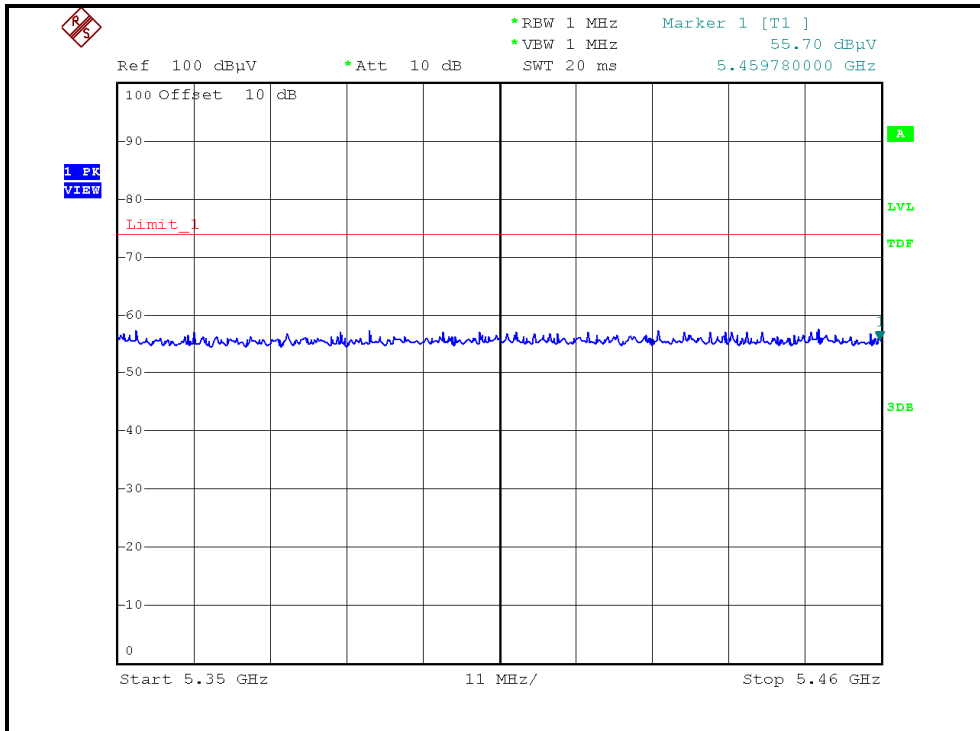
RESTRICTED BANDEDGE (802.11a MODE, CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11a MODE,CH9, VERTICAL)





A D T

DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	41.88 PK	68.30	-26.42	2.88 H	300	8.95	32.93
2	4717.10	55.88 PK	74.00	-18.12	1.31 H	302	19.38	36.50
3	4717.10	42.92 AV	54.00	-11.08	1.31 H	302	6.42	36.50
4	*5260.00	122.21 PK			1.33 H	300	84.95	37.26
5	*5260.00	112.06 AV			1.33 H	300	74.80	37.26
6	#7013.30	54.73 PK	68.30	-13.57	1.23 H	317	11.57	43.16
7	#10520.00	55.26 PK	68.30	-13.04	2.86 H	300	8.49	46.77

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	#3506.60	41.23 PK	68.30	-27.07	1.04 V	183	8.30	32.93
2	4730.10	56.33 PK	74.00	-17.67	1.63 V	251	19.79	36.54
3	4730.10	42.94 AV	54.00	-11.06	1.63 V	251	6.40	36.54
4	*5260.00	114.10 PK			1.64 V	242	76.84	37.26
5	*5260.00	104.10 AV			1.64 V	242	66.84	37.26
6	#7013.30	54.29 PK	68.30	-14.01	1.03 V	182	11.13	43.16
7	#10520.00	54.70 PK	68.30	-13.60	1.02 V	184	7.93	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	41.56 PK	68.30	-26.74	1.00 H	286	8.55	33.01
2	*5300.00	121.76 PK			1.37 H	296	84.50	37.26
3	*5300.00	112.04 AV			1.37 H	296	74.78	37.26
4	#7066.60	53.36 PK	68.30	-14.94	1.21 H	315	10.21	43.15
5	10600.00	54.93 PK	74.00	-19.07	1.44 H	281	8.10	46.83
6	10600.00	40.65 AV	54.00	-13.35	1.44 H	281	-6.18	46.83
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	#3533.30	41.20 PK	68.30	-27.10	1.02 V	184	8.19	33.01
2	*5300.00	114.00 PK			1.62 V	241	76.74	37.26
3	*5300.00	104.03 AV			1.62 V	241	66.77	37.26
4	#7066.60	53.10 PK	68.30	-15.20	1.01 V	192	9.95	43.15
5	10600.00	54.80 PK	74.00	-19.20	1.03 V	182	7.97	46.83
6	10600.00	39.20 AV	54.00	-14.80	1.03 V	182	-7.63	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	41.93 PK	68.30	-26.37	1.10 H	290	8.88	33.05
2	*5320.00	121.66 PK			1.39 H	294	84.40	37.26
3	*5320.00	111.39 AV			1.39 H	294	74.13	37.26
4	5350.00	66.18 PK	74.00	-7.82	1.39 H	294	28.92	37.26
5	5350.00	50.16 AV	54.00	-3.84	1.39 H	294	12.90	37.26
6	#7093.30	52.46 PK	68.30	-15.84	1.19 H	313	9.31	43.15
7	10640.00	54.73 PK	74.00	-19.27	1.41 H	298	7.87	46.86
8	10640.00	41.45 AV	54.00	-12.55	1.41 H	298	-5.41	46.86
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	#3546.60	41.82 PK	68.30	-26.48	1.06 V	184	8.77	33.05
2	*5320.00	113.50 PK			1.60 V	243	76.24	37.26
3	*5320.00	103.70 AV			1.60 V	243	66.44	37.26
4	5350.00	55.47 PK	74.00	-18.53	1.61 V	248	18.21	37.26
5	5350.00	44.74 AV	54.00	-9.26	1.61 V	248	7.48	37.26
6	#7093.30	51.73 PK	68.30	-16.57	1.02 V	193	8.58	43.15
7	10640.00	54.29 PK	74.00	-19.71	1.04 V	182	7.43	46.86
8	10640.00	40.80 AV	54.00	-13.20	1.04 V	182	-6.06	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	43.11 PK	74.00	-30.89	1.00 H	297	9.70	33.41
2	3666.60	31.62 AV	54.00	-22.38	1.00 H	297	-1.79	33.41
3	5460.00	60.00 PK	74.00	-14.00	1.33 H	303	22.74	37.26
4	5460.00	45.03 AV	54.00	-8.97	1.33 H	303	7.77	37.26
5	#5470.00	67.55 PK	68.30	-0.75	1.31 H	303	30.29	37.26
6	*5500.00	118.93 PK			1.32 H	306	81.67	37.26
7	*5500.00	108.19 AV			1.32 H	306	70.93	37.26
8	7333.30	51.88 PK	74.00	-22.12	1.00 H	336	8.75	43.13
9	7333.30	40.26 AV	54.00	-13.74	1.00 H	336	-2.87	43.13
10	11000.00	55.86 PK	74.00	-18.14	1.40 H	298	8.71	47.15
11	11000.00	42.13 AV	54.00	-11.87	1.40 H	298	-5.02	47.15

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	3666.60	42.84 PK	74.00	-31.16	1.01 V	191	9.43	33.41
2	3666.60	31.12 AV	54.00	-22.88	1.01 V	191	-2.29	33.41
3	5460.00	56.68 PK	74.00	-17.32	1.64 V	253	19.42	37.26
4	5460.00	44.03 AV	54.00	-9.97	1.64 V	253	6.77	37.26
5	#5470.00	63.40 PK	68.30	-4.90	1.04 V	184	26.14	37.26
6	*5500.00	110.60 PK			1.61 V	249	73.34	37.26
7	*5500.00	100.20 AV			1.61 V	249	62.94	37.26
8	7333.30	51.24 PK	74.00	-22.76	1.03 V	189	8.11	43.13
9	7333.30	39.12 AV	54.00	-14.88	1.03 V	189	-4.01	43.13
10	11000.00	54.21 PK	74.00	-19.79	1.02 V	181	7.06	47.15
11	11000.00	40.93 AV	54.00	-13.07	1.02 V	181	-6.22	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	41.85 PK	74.00	-32.15	1.06 H	298	8.24	33.61
2	3733.30	30.24 AV	54.00	-23.76	1.06 H	298	-3.37	33.61
3	*5600.00	120.79 PK			1.34 H	306	83.25	37.54
4	*5600.00	110.31 AV			1.34 H	306	72.77	37.54
5	7466.60	51.88 PK	74.00	-22.12	1.05 H	335	8.76	43.12
6	7466.60	40.76 AV	54.00	-13.24	1.05 H	335	-2.36	43.12
7	11200.00	59.83 PK	74.00	-14.17	1.24 H	298	12.65	47.18
8	11200.00	44.59 AV	54.00	-9.41	1.24 H	298	-2.59	47.18
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	3733.30	40.73 PK	74.00	-33.27	1.00 V	201	7.12	33.61
2	3733.30	29.13 AV	54.00	-24.87	1.00 V	201	-4.48	33.61
3	*5600.00	112.30 PK			1.63 V	251	74.76	37.54
4	*5600.00	100.70 AV			1.63 V	251	63.16	37.54
5	7466.60	50.74 PK	74.00	-23.26	1.04 V	199	7.62	43.12
6	7466.60	39.14 AV	54.00	-14.86	1.04 V	199	-3.98	43.12
7	11200.00	59.12 PK	74.00	-14.88	1.01 V	184	11.94	47.18
8	11200.00	43.42 AV	54.00	-10.58	1.01 V	184	-3.76	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

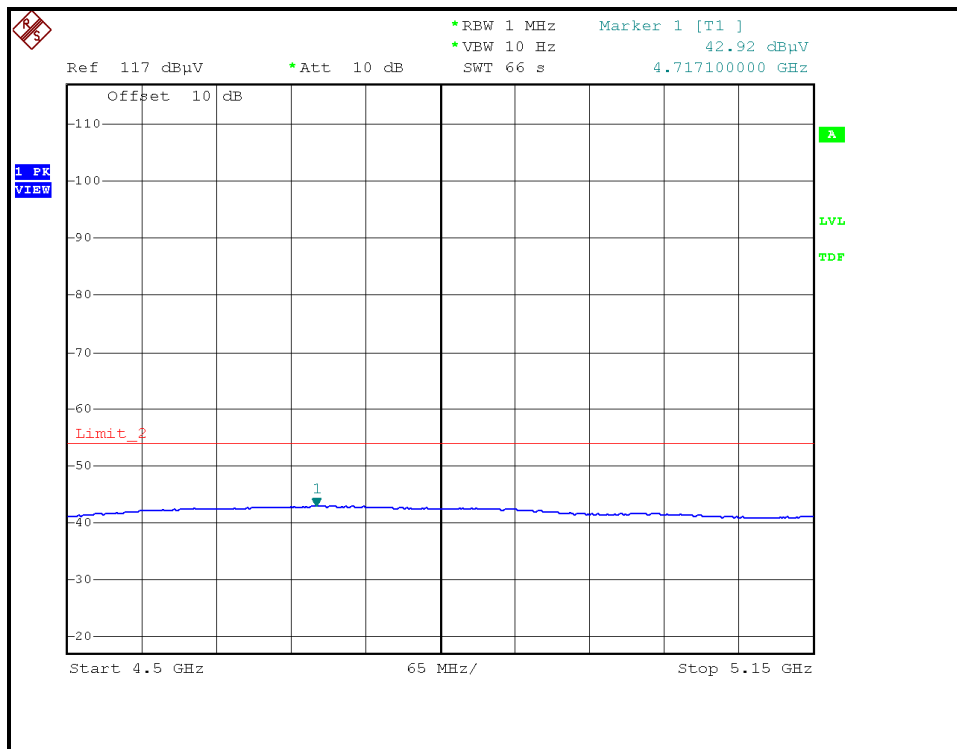
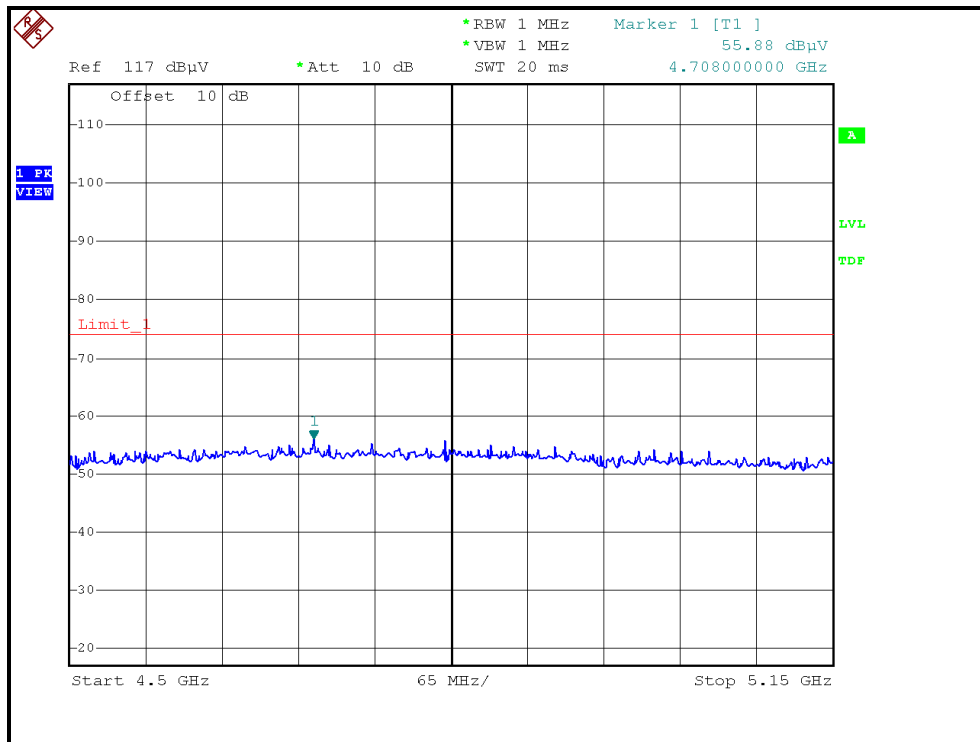
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	42.80 PK	74.00	-31.20	1.45 H	311	8.98	33.82
2	3800.00	30.31 AV	54.00	-23.69	1.45 H	311	-3.51	33.82
3	*5700.00	117.04 PK			1.32 H	307	79.21	37.83
4	*5700.00	107.07 AV			1.32 H	307	69.24	37.83
5	#5725.00	67.69 PK	68.30	-0.61	1.30 H	308	29.79	37.90
6	7600.00	52.11 PK	74.00	-21.89	1.18 H	322	8.80	43.31
7	7600.00	39.52 AV	54.00	-14.48	1.18 H	322	-3.79	43.31
8	11400.00	57.61 PK	74.00	-16.39	1.25 H	293	10.40	47.21
9	11400.00	43.57 AV	54.00	-10.43	1.25 H	293	-3.64	47.21
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	3800.00	42.10 PK	74.00	-31.90	1.04 V	184	8.28	33.82
2	3800.00	30.10 AV	54.00	-23.90	1.04 V	184	-3.72	33.82
3	*5700.00	109.80 PK			1.66 V	242	71.97	37.83
4	*5700.00	99.20 AV			1.66 V	242	61.37	37.83
5	#5725.00	60.40 PK	68.30	-7.90	1.60 V	231	22.50	37.90
6	7600.00	51.70 PK	74.00	-22.30	1.03 V	179	8.39	43.31
7	7600.00	38.90 AV	54.00	-15.10	1.03 V	179	-4.41	43.31
8	11400.00	57.04 PK	74.00	-16.96	1.06 V	184	9.83	47.21
9	11400.00	43.10 AV	54.00	-10.90	1.06 V	184	-4.11	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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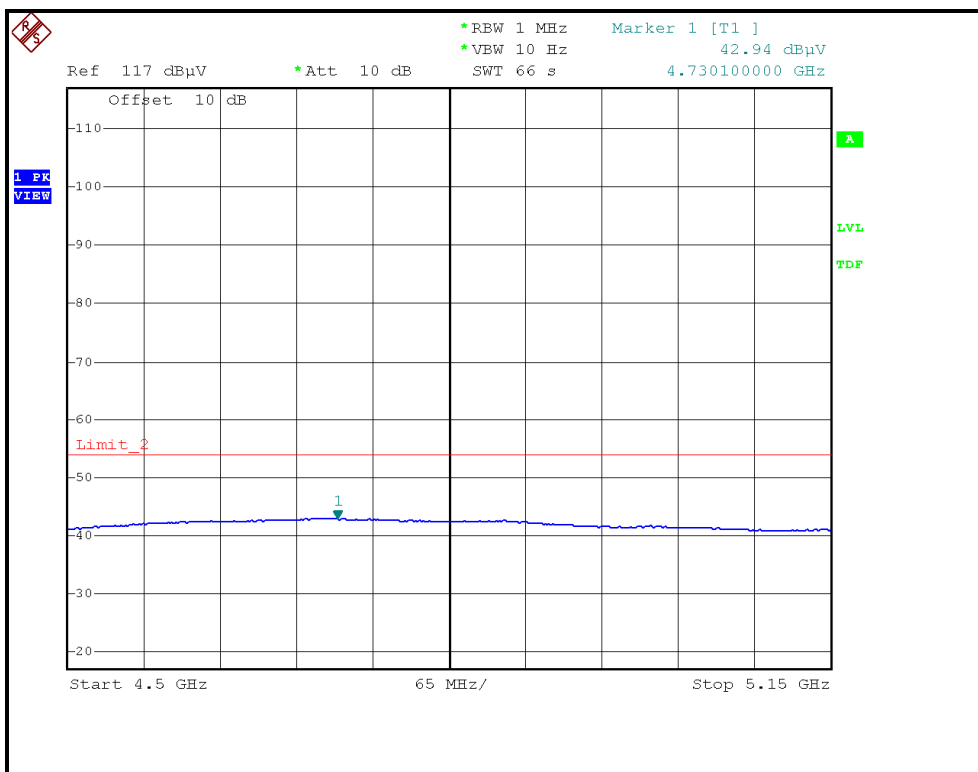
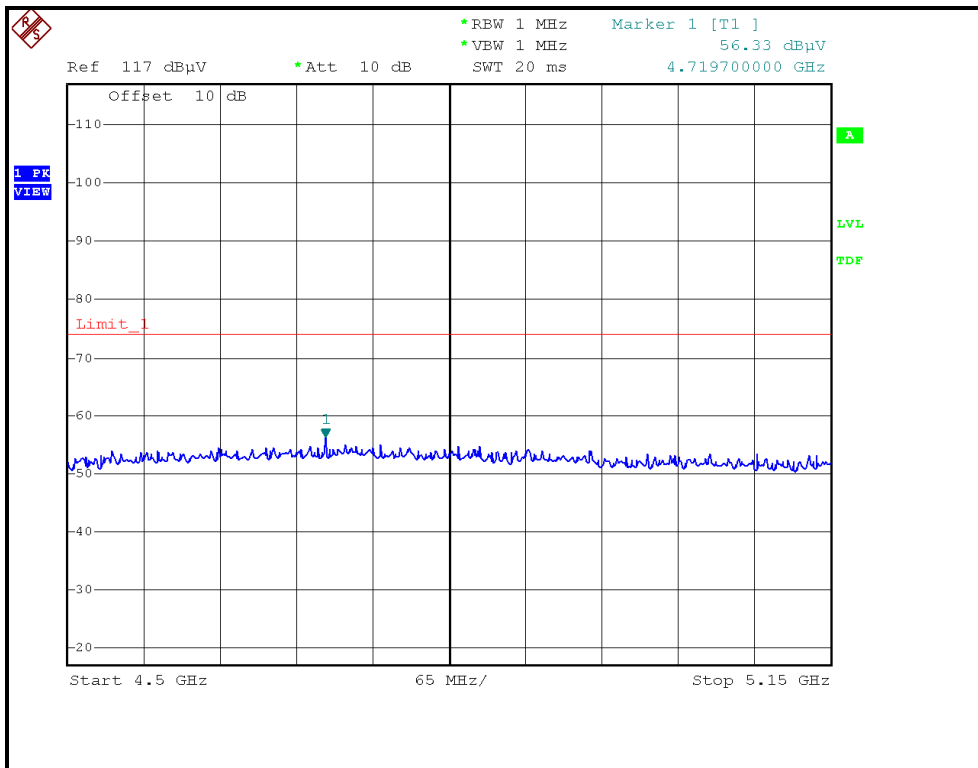
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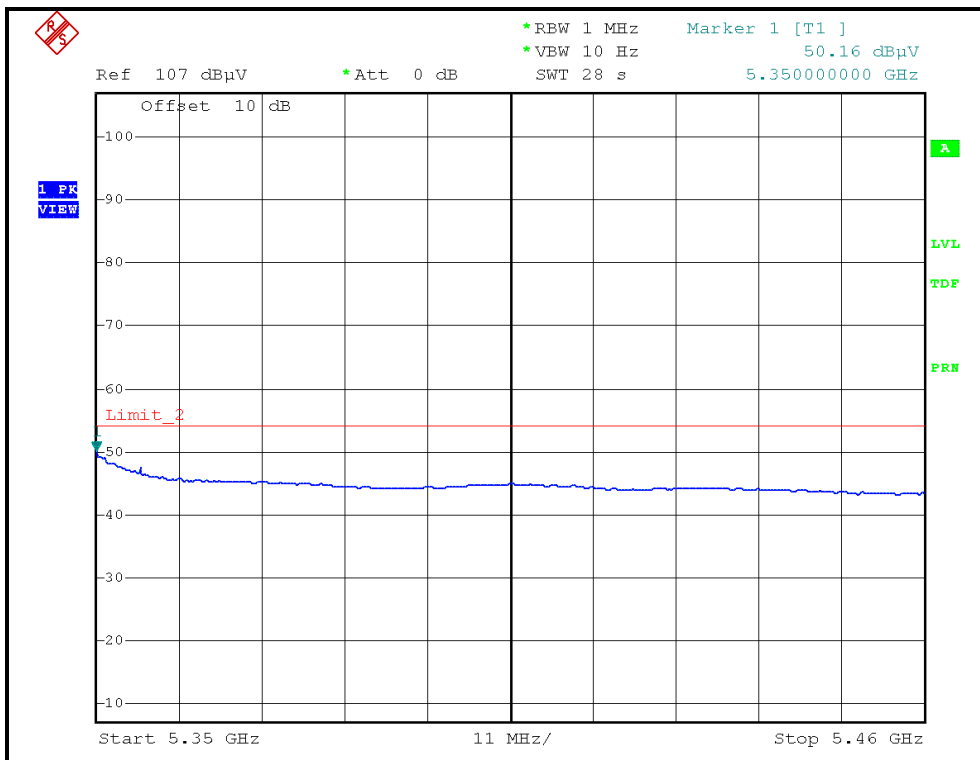
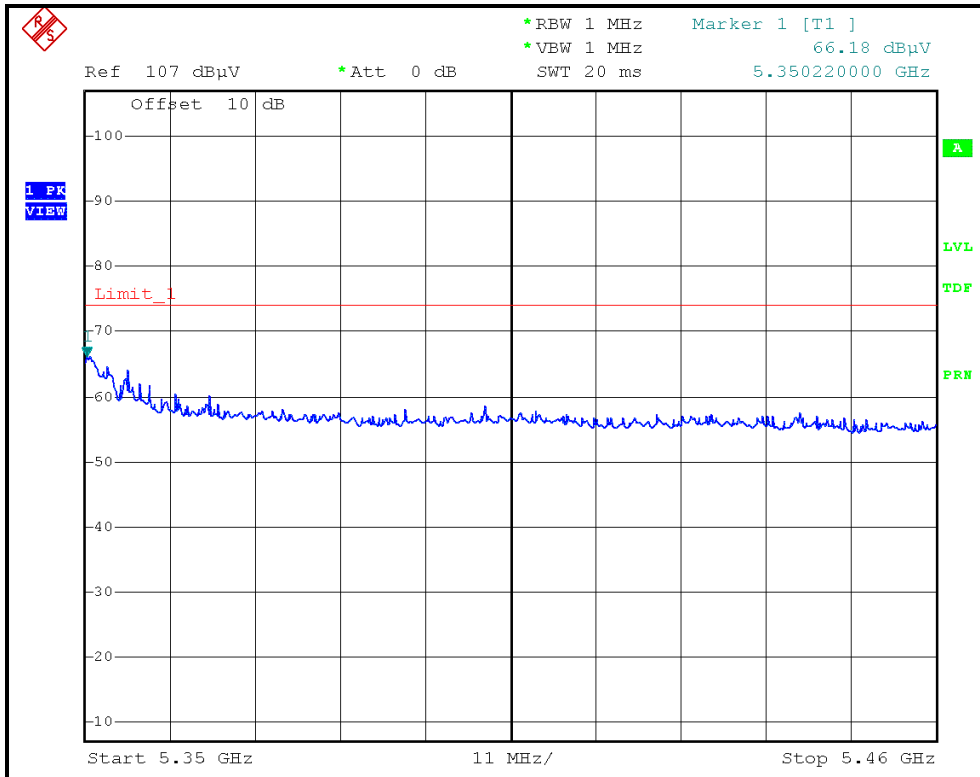
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH5, VERTICAL)





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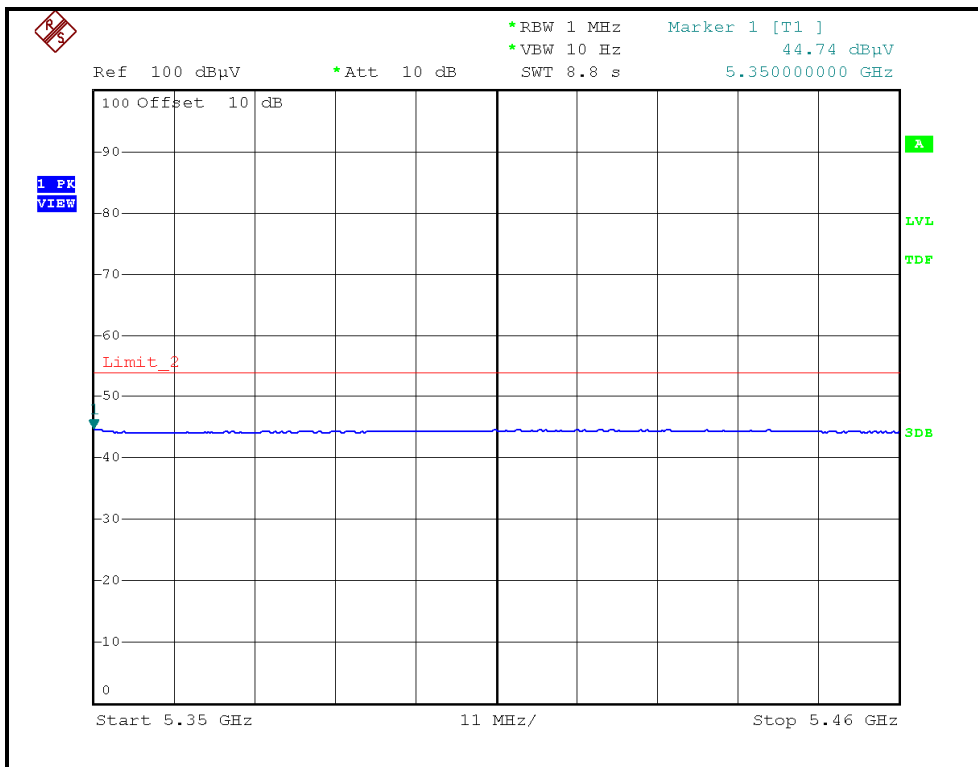
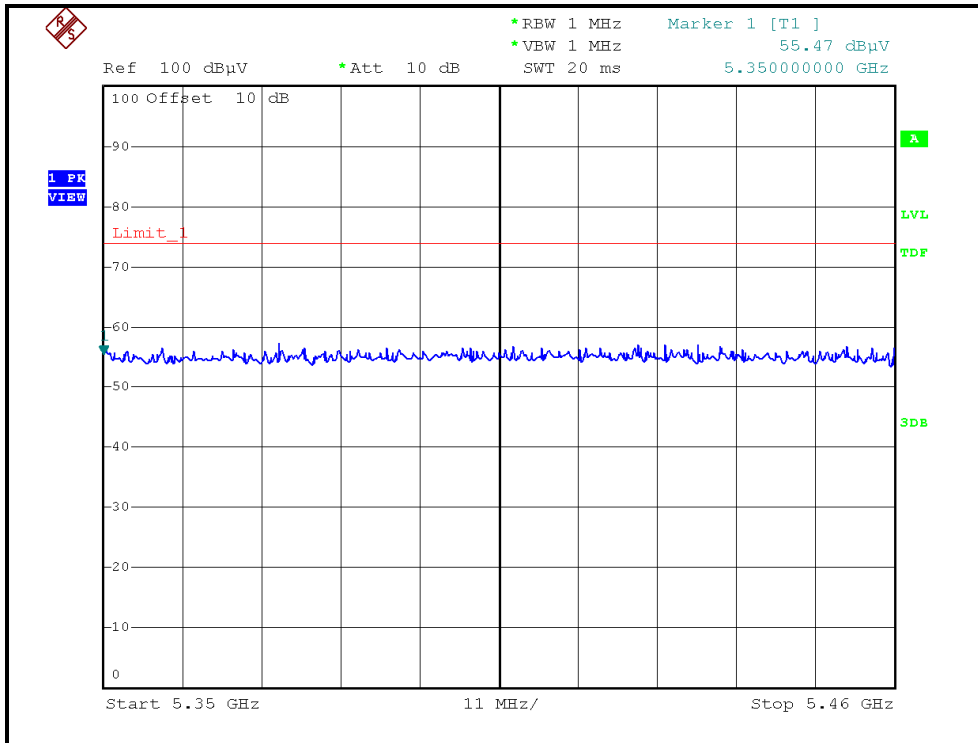
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH8, HORIZONTAL)





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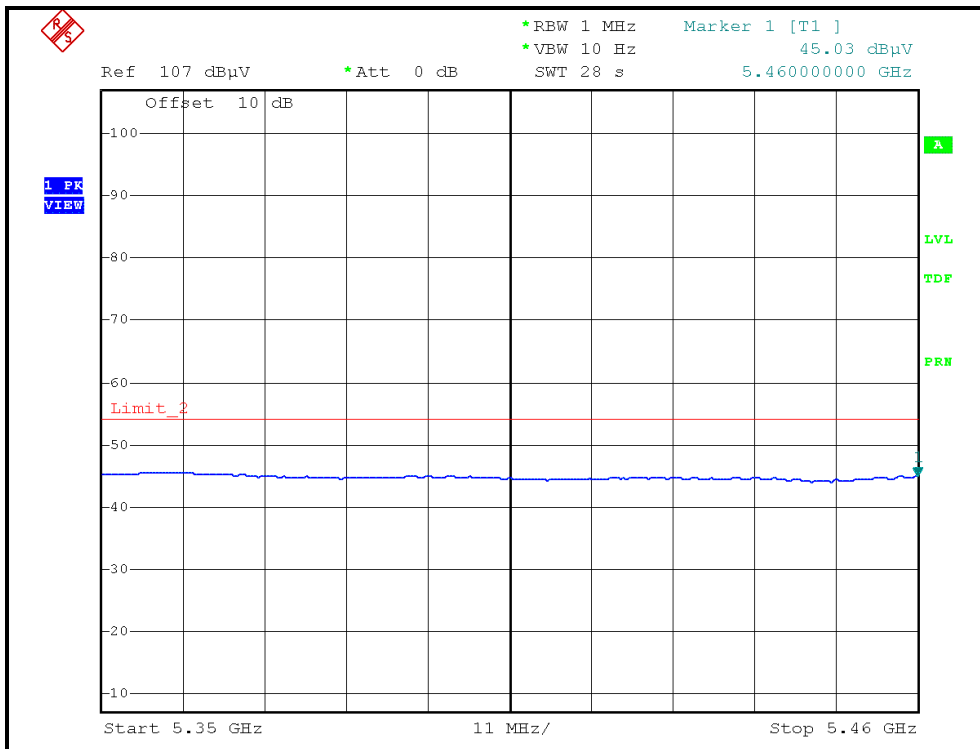
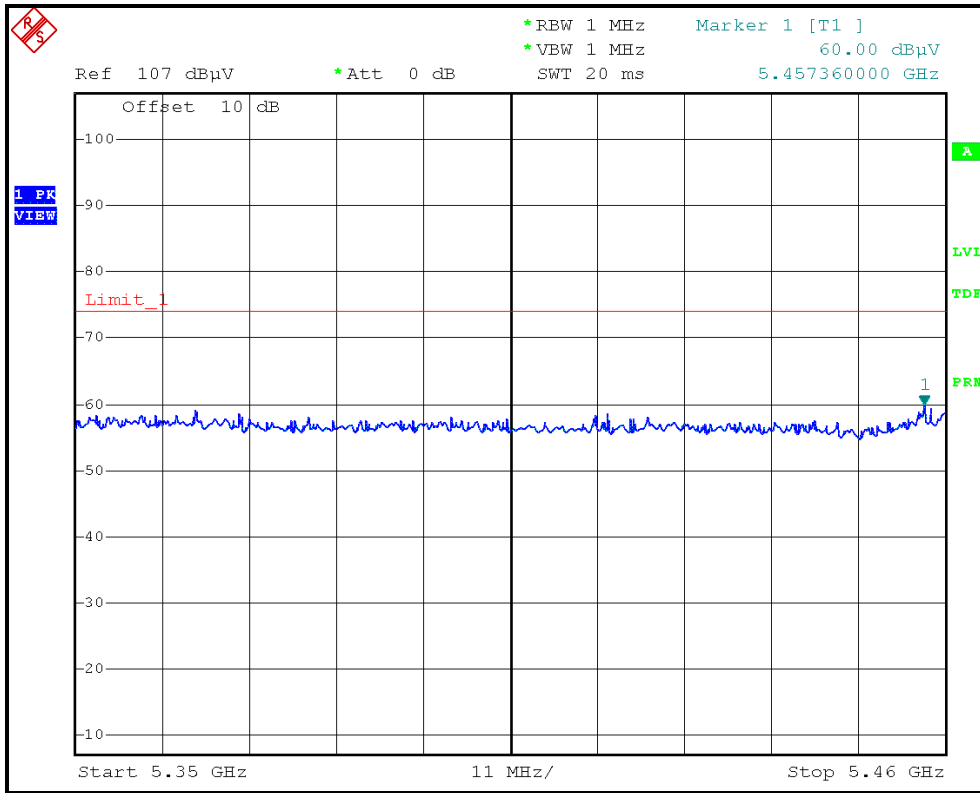
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH8, VERTICAL)





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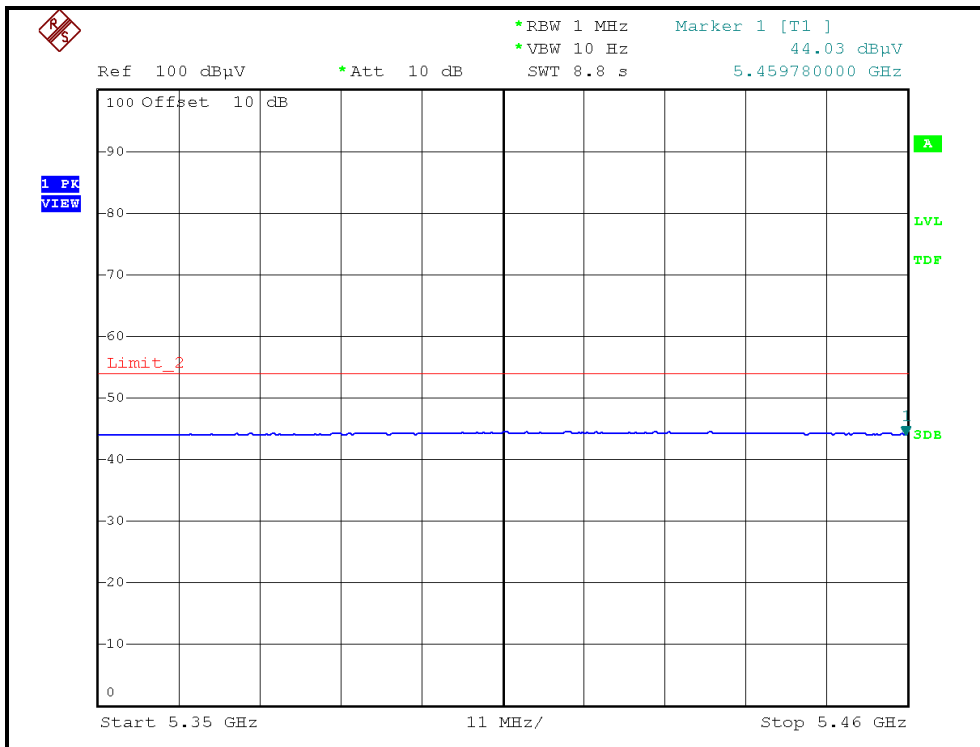
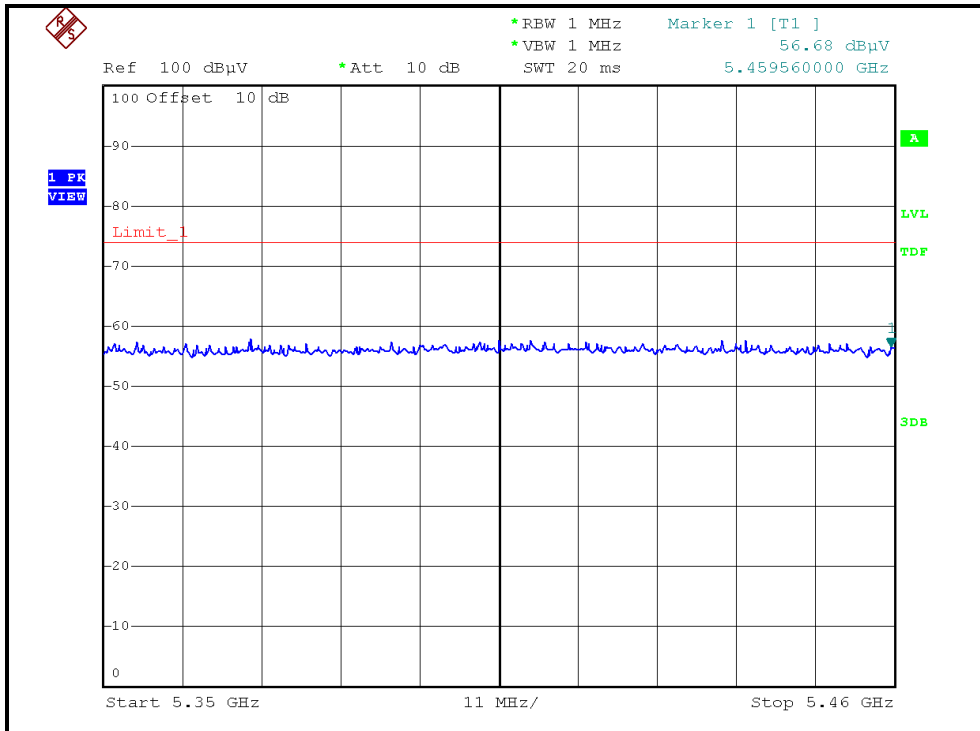
RESTRICTED BANDEGE (DRAFT 802.11n (20MHz) MODE,CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH9, VERTICAL)





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DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3513.30	42.08 PK	68.30	-26.22	1.00 H	288	9.13	32.95
2	4710.60	56.21 PK	74.00	-17.79	1.34 H	257	19.73	36.48
3	4710.60	42.89 AV	54.00	-11.11	1.34 H	257	6.41	36.48
4	*5270.00	120.95 PK			1.33 H	298	83.69	37.26
5	*5270.00	110.60 AV			1.33 H	298	73.34	37.26
6	#7026.60	54.70 PK	68.30	-13.60	1.23 H	314	11.54	43.16
7	#10540.00	56.50 PK	68.30	-11.80	1.41 H	289	9.72	46.78
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	#3513.30	41.70 PK	68.30	-26.60	1.04 V	184	8.75	32.95
2	4710.60	55.26 PK	74.00	-18.74	1.64 V	213	18.78	36.48
3	4710.60	42.88 AV	54.00	-11.12	1.64 V	213	6.40	36.48
4	*5270.00	111.40 PK			1.63 V	239	74.14	37.26
5	*5270.00	102.30 AV			1.63 V	239	65.04	37.26
6	#7026.60	53.29 PK	68.30	-15.01	1.01 V	185	10.13	43.16
7	#10540.00	55.40 PK	68.30	-12.90	1.02 V	182	8.62	46.78

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3540.00	41.89 PK	68.30	-26.41	1.10 H	290	8.86	33.03
2	*5310.00	112.96 PK			1.28 H	309	75.70	37.26
3	*5310.00	102.12 AV			1.28 H	309	64.86	37.26
4	5350.00	68.65 PK	74.00	-5.35	1.26 H	308	31.39	37.26
5	5350.00	52.88 AV	54.00	-1.12	1.26 H	308	15.62	37.26
6	#7080.00	52.44 PK	68.30	-15.86	1.20 H	311	9.29	43.15
7	10620.00	56.29 PK	74.00	-17.71	1.39 H	290	9.44	46.85
8	10620.00	42.43 AV	54.00	-11.57	1.39 H	290	-4.42	46.85
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	#3540.00	40.72 PK	68.30	-27.58	1.01 V	184	7.69	33.03
2	*5310.00	103.10 PK			1.61 V	231	65.84	37.26
3	*5310.00	94.10 AV			1.61 V	231	56.84	37.26
4	5350.00	59.03 PK	74.00	-14.97	1.64 V	250	21.77	37.26
5	5350.00	46.30 AV	54.00	-7.70	1.64 V	250	9.04	37.26
6	#7080.00	52.03 PK	68.30	-16.27	1.04 V	181	8.88	43.15
7	10620.00	56.13 PK	74.00	-17.87	1.02 V	185	9.28	46.85
8	10620.00	42.10 AV	54.00	-11.90	1.02 V	185	-4.75	46.85

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3673.30	43.15 PK	74.00	-30.85	1.00 H	360	9.72	33.43
2	3673.30	31.66 AV	54.00	-22.34	1.00 H	360	-1.77	33.43
3	5460.00	60.18 PK	74.00	-13.82	1.28 H	309	22.92	37.26
4	5460.00	44.97 AV	54.00	-9.03	1.28 H	309	7.71	37.26
5	#5470.00	67.70 PK	68.30	-0.60	1.28 H	309	30.44	37.26
6	*5510.00	108.80 PK			1.28 H	310	71.51	37.29
7	*5510.00	97.83 AV			1.28 H	310	60.54	37.29
8	7346.60	51.78 PK	74.00	-22.22	1.00 H	335	8.65	43.13
9	7346.60	40.26 AV	54.00	-13.74	1.00 H	335	-2.87	43.13
10	11020.00	55.56 PK	74.00	-18.44	1.41 H	289	8.41	47.15
11	11020.00	42.51 AV	54.00	-11.49	1.41 H	289	-4.64	47.15

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	3673.30	43.20 PK	74.00	-30.80	1.02 V	184	9.77	33.43
2	3673.30	31.59 AV	54.00	-22.41	1.02 V	184	-1.84	33.43
3	5460.00	55.38 PK	74.00	-18.62	1.60 V	253	18.12	37.26
4	5460.00	43.95 AV	54.00	-10.05	1.60 V	253	6.69	37.26
5	#5470.00	60.60 PK	68.30	-7.70	1.64 V	254	23.34	37.26
6	*5510.00	99.10 PK			1.62 V	244	61.81	37.29
7	*5510.00	89.20 AV			1.62 V	244	51.91	37.29
8	7346.60	51.24 PK	74.00	-22.76	1.03 V	182	8.11	43.13
9	7346.60	40.10 AV	54.00	-13.90	1.03 V	182	-3.03	43.13
10	11020.00	55.23 PK	74.00	-18.77	1.04 V	181	8.08	47.15
11	11020.00	41.70 AV	54.00	-12.30	1.04 V	181	-5.45	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3726.60	41.83 PK	74.00	-32.17	1.08 H	297	8.24	33.59
2	3726.60	30.31 AV	54.00	-23.69	1.08 H	297	-3.28	33.59
3	*5590.00	120.62 PK			1.29 H	312	83.10	37.52
4	*5590.00	109.94 AV			1.29 H	312	72.42	37.52
5	7453.30	51.96 PK	74.00	-22.04	1.05 H	338	8.84	43.12
6	7453.30	40.81 AV	54.00	-13.19	1.05 H	338	-2.31	43.12
7	11180.00	55.60 PK	74.00	-18.40	1.40 H	291	8.42	47.18
8	11180.00	42.63 AV	54.00	-11.37	1.40 H	291	-4.55	47.18
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	3726.60	41.29 PK	74.00	-32.71	1.04 V	185	7.70	33.59
2	3726.60	29.87 AV	54.00	-24.13	1.04 V	185	-3.72	33.59
3	*5590.00	110.30 PK			1.60 V	241	72.78	37.52
4	*5590.00	101.20 AV			1.60 V	241	63.68	37.52
5	7453.30	51.43 PK	74.00	-22.57	1.03 V	184	8.31	43.12
6	7453.30	39.72 AV	54.00	-14.28	1.03 V	184	-3.40	43.12
7	11180.00	55.26 PK	74.00	-18.74	1.02 V	182	8.08	47.18
8	11180.00	42.13 AV	54.00	-11.87	1.02 V	182	-5.05	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

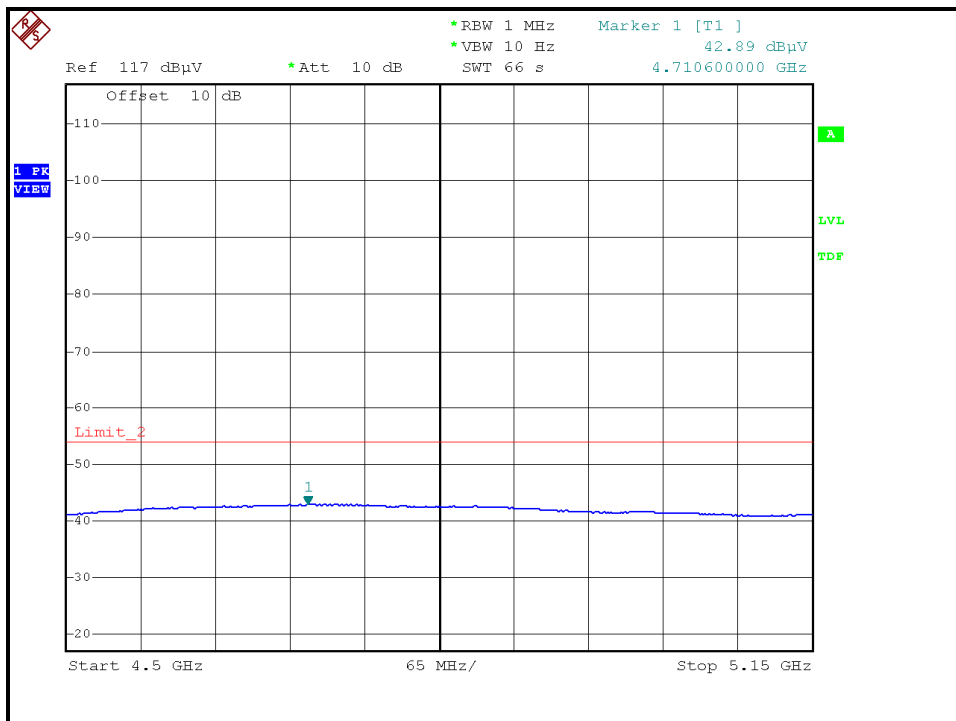
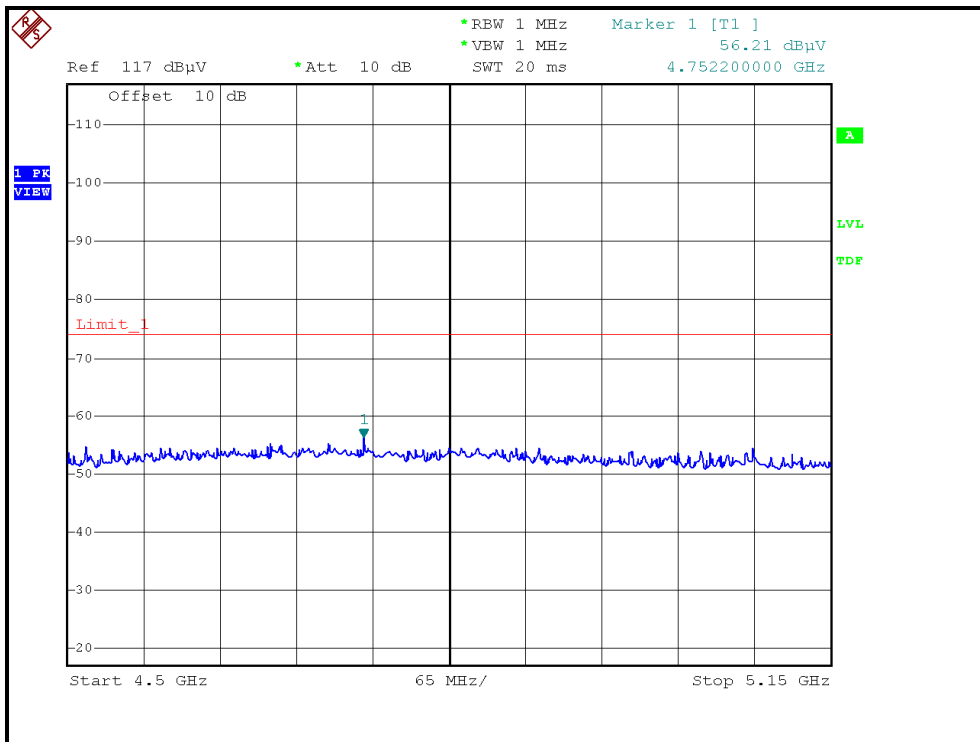
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3780.00	42.96 PK	74.00	-31.04	1.48 H	311	9.20	33.76
2	3780.00	30.41 AV	54.00	-23.59	1.48 H	311	-3.35	33.76
3	*5670.00	113.65 PK			1.28 H	307	75.91	37.74
4	*5670.00	102.88 AV			1.28 H	307	65.14	37.74
5	#5725.00	67.55 PK	68.30	-0.75	1.28 H	308	29.65	37.90
6	7560.00	52.13 PK	74.00	-21.87	1.18 H	322	8.90	43.23
7	7560.00	39.58 AV	54.00	-14.42	1.18 H	322	-3.65	43.23
8	11340.00	56.05 PK	74.00	-17.95	1.40 H	290	8.85	47.20
9	11340.00	42.38 AV	54.00	-11.62	1.40 H	290	-4.82	47.20
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	3780.00	42.30 PK	74.00	-31.70	1.02 V	181	8.54	33.76
2	3780.00	30.10 AV	54.00	-23.90	1.02 V	181	-3.66	33.76
3	*5670.00	102.80 PK			1.63 V	242	65.06	37.74
4	*5670.00	93.72 AV			1.63 V	242	55.98	37.74
5	#5725.00	60.60 PK	68.30	-7.70	1.64 V	244	22.70	37.90
6	7560.00	51.80 PK	74.00	-22.20	1.01 V	182	8.57	43.23
7	7560.00	39.10 AV	54.00	-14.90	1.01 V	182	-4.13	43.23
8	11340.00	55.60 PK	74.00	-18.40	1.03 V	184	8.40	47.20
9	11340.00	41.70 AV	54.00	-12.30	1.03 V	184	-5.50	47.20

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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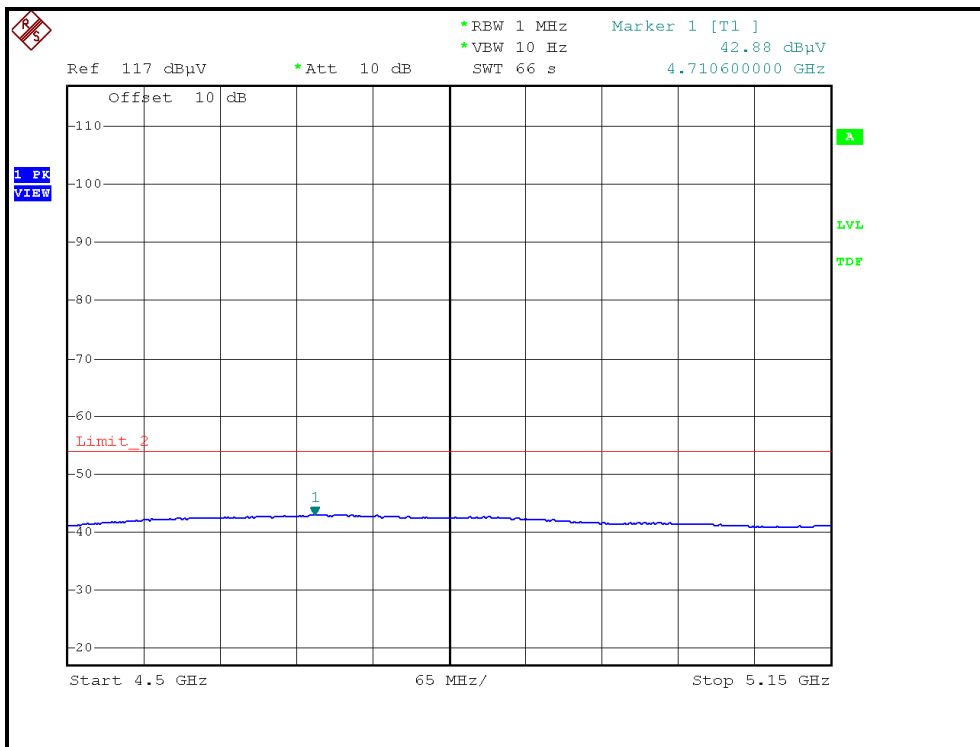
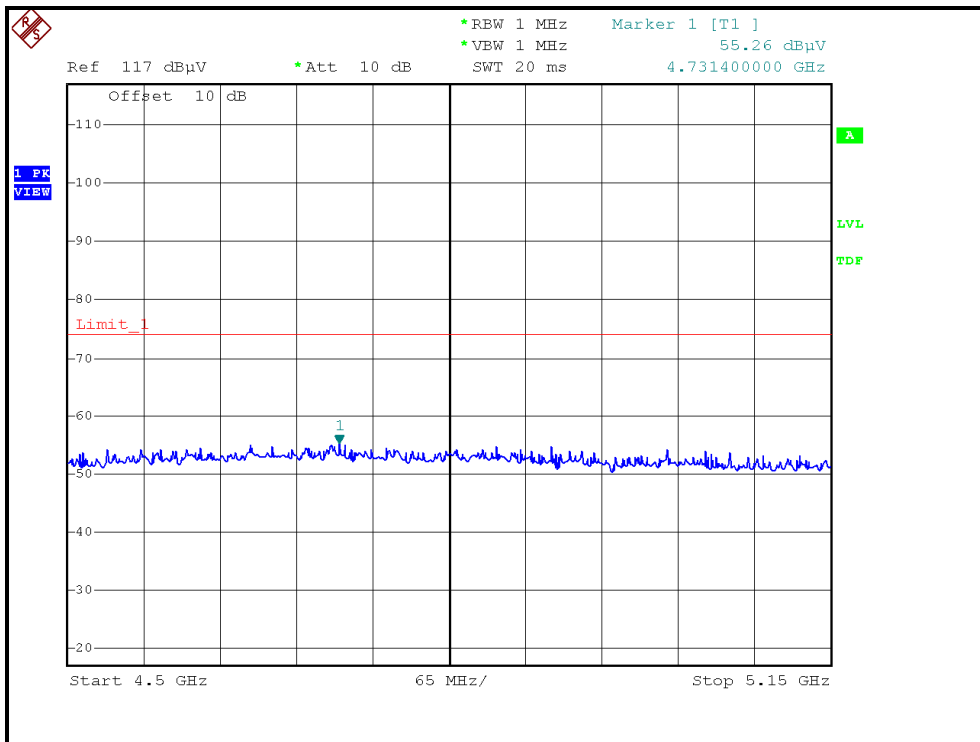
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH3, HORIZONTAL)





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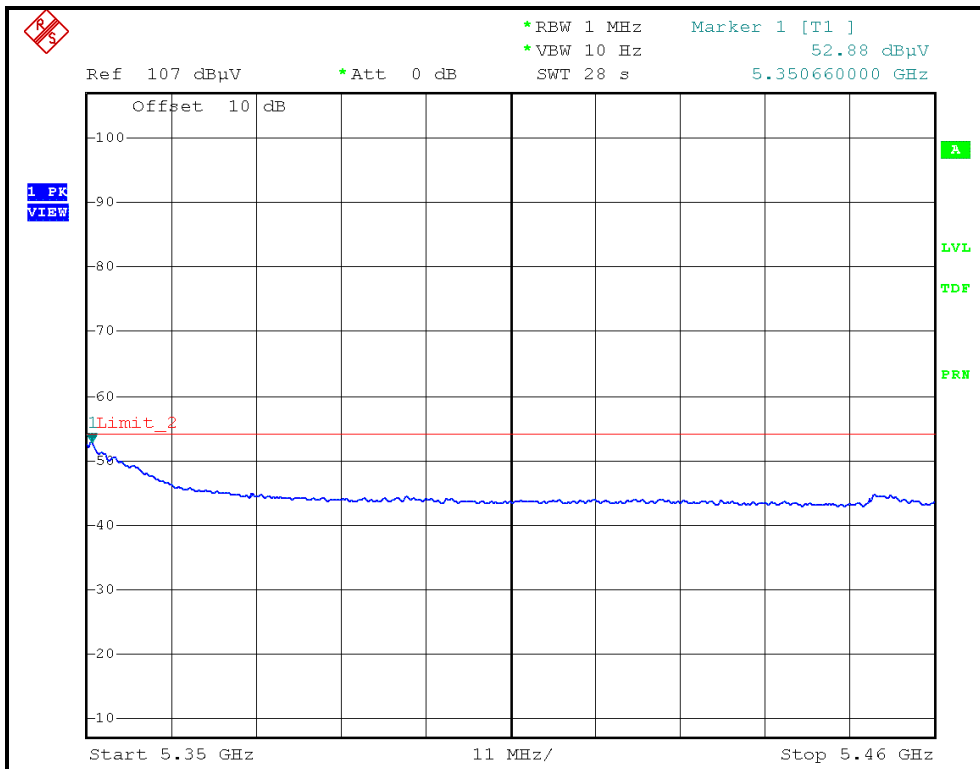
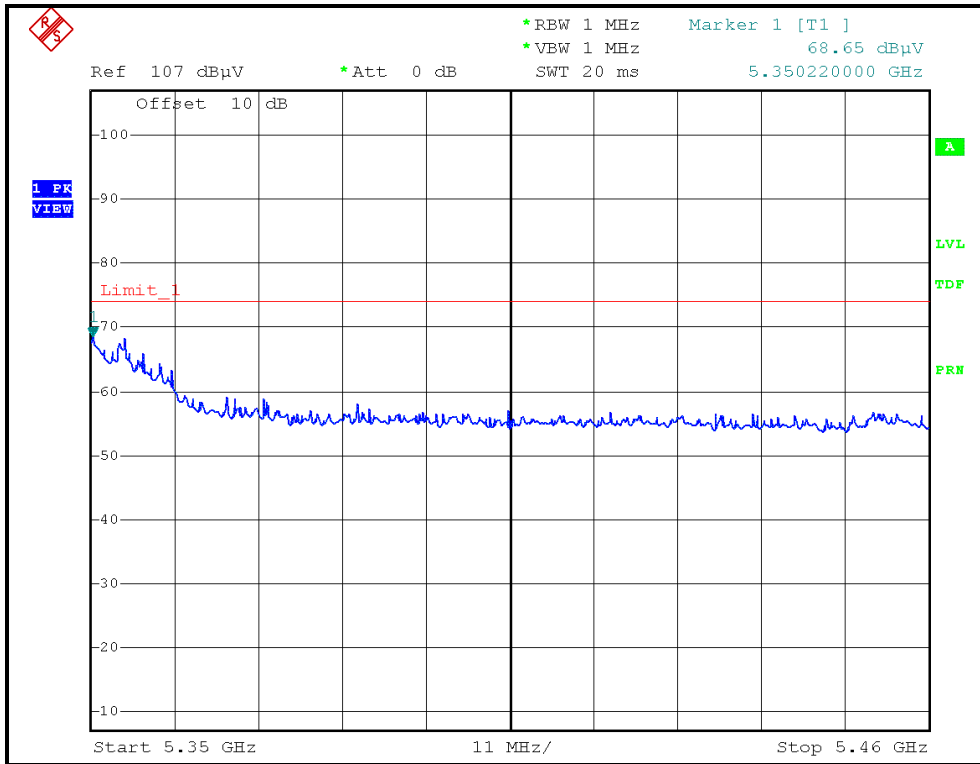
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH3, VERTICAL)





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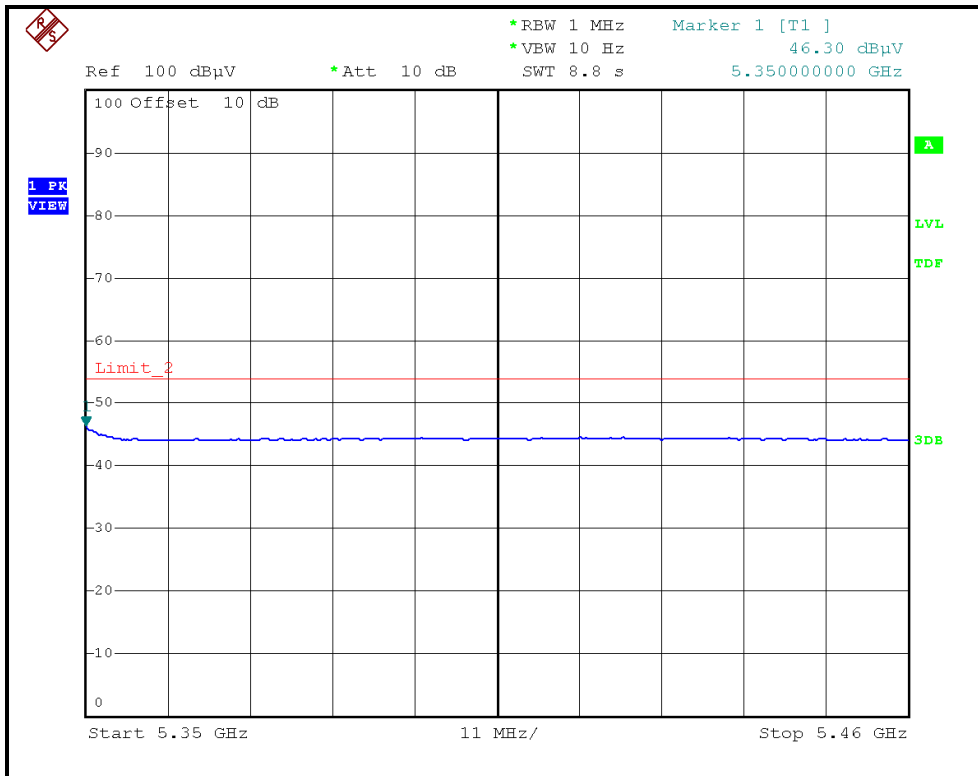
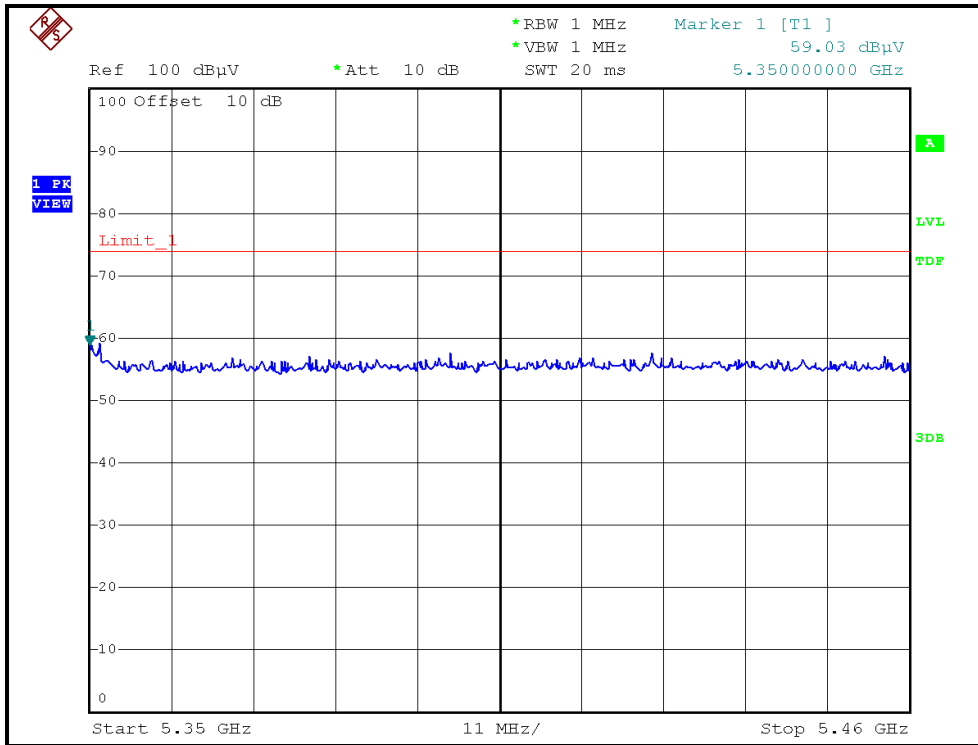
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, HORIZONTAL)





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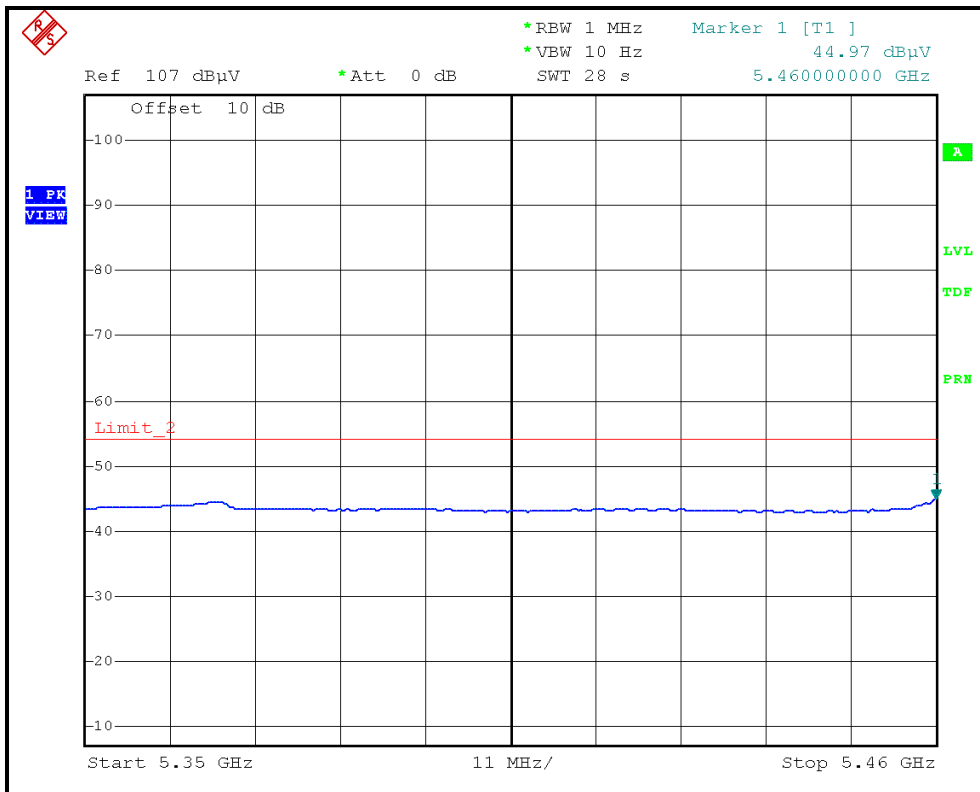
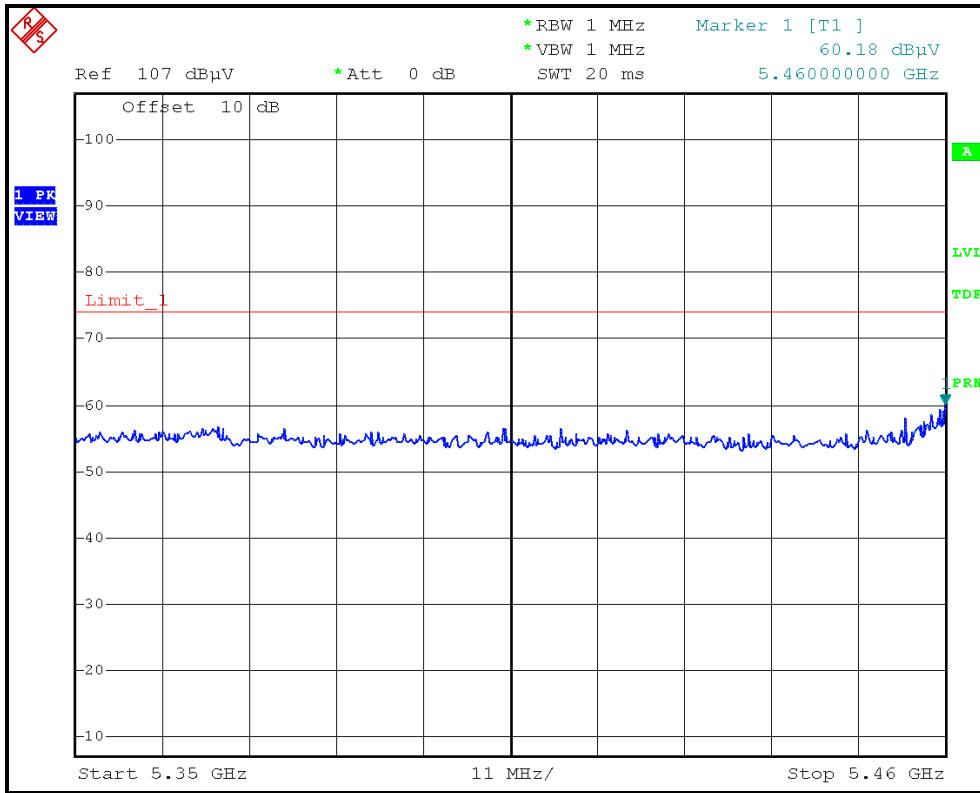
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, VERTICAL)





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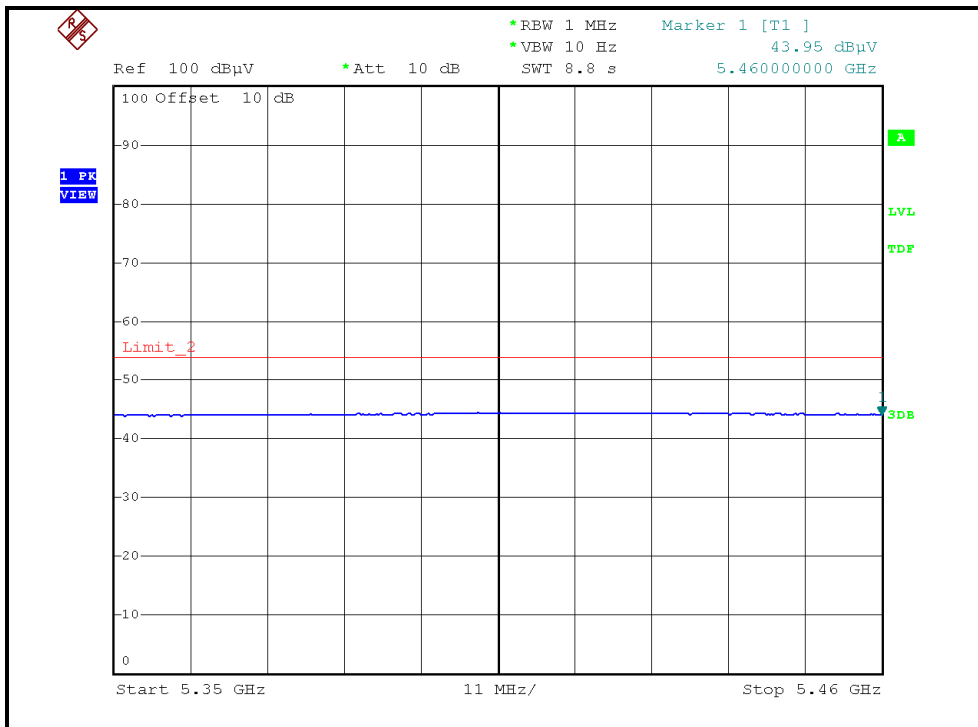
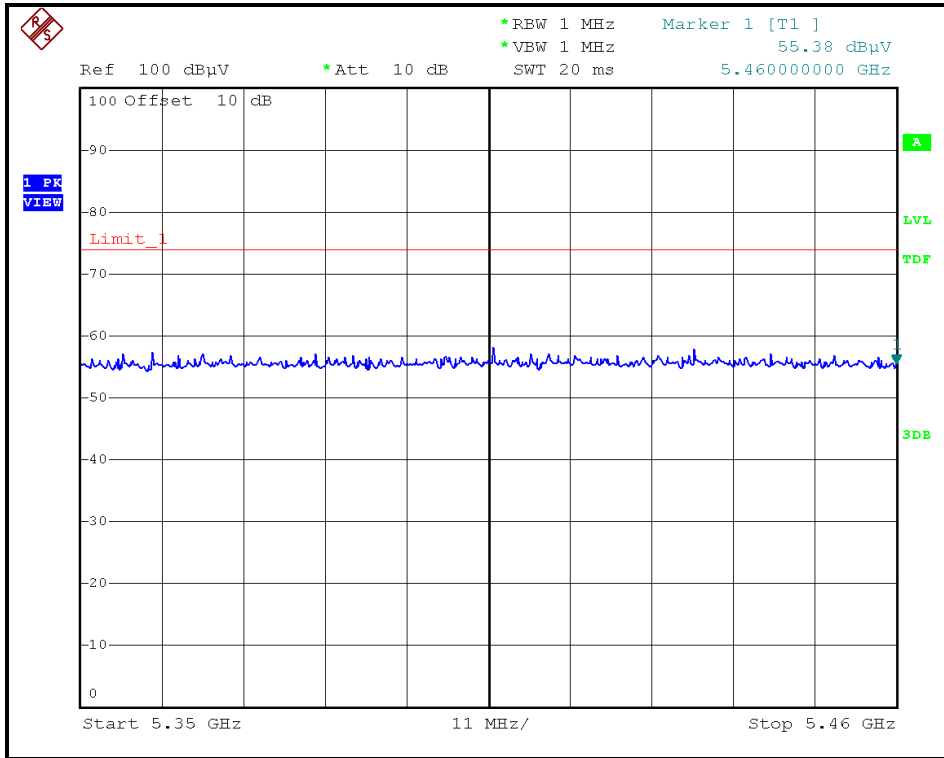
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, VERTICAL)





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4.2.12 TEST RESULTS – ANTENNA 11

BELOW 1GHz WORST-CASE DATA : DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30.0deg. C, 55.0%RH 965hPa	TESTED BY	Frank Liu

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	125.00	39.76 QP	43.50	-3.74	1.28 H	355	26.69	13.07
2	250.00	35.76 QP	46.00	-10.24	1.37 H	269	21.51	14.25
3	375.00	38.74 QP	46.00	-7.26	1.10 H	343	19.93	18.81
4	650.00	43.76 QP	46.00	-2.24	1.07 H	264	18.23	25.53
5	750.00	35.86 QP	46.00	-10.14	1.09 H	247	8.95	26.91
6	875.00	38.67 QP	46.00	-7.33	1.07 H	138	9.38	29.29
7	1000.00	39.56 QP	54.00	-14.44	1.09 H	188	8.82	30.74
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	57.21	33.96 QP	40.00	-6.04	1.00 V	261	20.27	13.69
2	125.00	30.86 QP	43.50	-12.64	1.00 V	175	17.79	13.07
3	250.00	28.98 QP	46.00	-17.02	1.00 V	59	14.73	14.25
4	375.00	39.95 QP	46.00	-6.05	1.08 V	272	21.14	18.81
5	600.00	37.83 QP	46.00	-8.17	1.00 V	261	12.79	25.04
6	650.00	40.83 QP	46.00	-5.17	1.00 V	259	15.30	25.53

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	41.20 PK	68.30	-27.10	1.04 H	26	8.27	32.93
2	4730.10	55.21 PK	74.00	-18.79	1.21 H	6	18.67	36.54
3	4730.10	42.88 AV	54.00	-11.12	1.21 H	6	6.34	36.54
4	*5260.00	115.46 PK			1.21 H	4	78.20	37.26
5	*5260.00	104.75 AV			1.21 H	4	67.49	37.26
6	#7013.30	52.80 PK	68.30	-15.50	1.09 H	31	9.64	43.16
7	#10520.00	56.10 PK	68.30	-12.20	1.02 H	34	9.33	46.77

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	#3506.60	41.83 PK	68.30	-26.47	1.28 V	2	8.90	32.93
2	4715.80	55.67 PK	74.00	-18.33	1.71 V	6	19.17	36.50
3	4715.80	42.90 AV	54.00	-11.10	1.71 V	6	6.40	36.50
4	*5260.00	118.72 PK			1.70 V	0	81.46	37.26
5	*5260.00	108.62 AV			1.70 V	0	71.36	37.26
6	#7013.30	53.12 PK	68.30	-15.18	1.08 V	1	9.96	43.16
7	#10520.00	56.98 PK	68.30	-11.32	1.26 V	11	10.21	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	40.80 PK	68.30	-27.50	1.01 H	34	7.79	33.01
2	*5300.00	114.20 PK			1.24 H	6	76.94	37.26
3	*5300.00	103.20 AV			1.24 H	6	65.94	37.26
4	#7066.60	51.60 PK	68.30	-16.70	1.04 H	29	8.45	43.15
5	10600.00	56.30 PK	74.00	-17.70	1.02 H	31	9.47	46.83
6	10600.00	42.40 AV	54.00	-11.60	1.02 H	31	-4.43	46.83
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	#3533.30	41.28 PK	68.30	-27.02	1.25 V	356	8.27	33.01
2	*5300.00	117.37 PK			1.20 V	355	80.11	37.26
3	*5300.00	107.16 AV			1.20 V	355	69.90	37.26
4	#7066.60	52.35 PK	68.30	-15.95	1.04 V	2	9.20	43.15
5	10600.00	57.63 PK	74.00	-16.37	1.09 V	31	10.80	46.83
6	10600.00	43.58 AV	54.00	-10.42	1.09 V	31	-3.25	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	42.60 PK	68.30	-25.70	1.04 H	37	9.55	33.05
2	*5320.00	113.40 PK			1.26 H	7	76.14	37.26
3	*5320.00	102.70 AV			1.26 H	7	65.44	37.26
4	5350.00	59.17 PK	74.00	-14.83	1.21 H	4	21.91	37.26
5	5350.00	46.51 AV	54.00	-7.49	1.21 H	4	9.25	37.26
6	#7093.30	51.70 PK	68.30	-16.60	1.02 H	37	8.55	43.15
7	10640.00	57.10 PK	74.00	-16.90	1.00 H	26	10.24	46.86
8	10640.00	43.20 AV	54.00	-10.80	1.00 H	26	-3.66	46.86
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	#3546.60	42.12 PK	68.30	-26.18	1.27 V	359	9.07	33.05
2	*5320.00	116.70 PK			1.20 V	357	79.44	37.26
3	*5320.00	106.60 AV			1.20 V	357	69.34	37.26
4	5350.00	58.22 PK	74.00	-15.78	1.19 V	356	20.96	37.26
5	5350.00	44.32 AV	54.00	-9.68	1.19 V	356	7.06	37.26
6	#7093.30	51.92 PK	68.30	-16.38	1.05 V	1	8.77	43.15
7	10640.00	57.58 PK	74.00	-16.42	1.10 V	21	10.72	46.86
8	10640.00	43.61 AV	54.00	-10.39	1.10 V	21	-3.25	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	43.10 PK	74.00	-30.90	1.02 H	34	9.69	33.41
2	3666.60	32.20 AV	54.00	-21.80	1.02 H	34	-1.21	33.41
3	5460.00	55.28 PK	74.00	-18.72	1.21 H	3	18.02	37.26
4	5460.00	44.37 AV	54.00	-9.63	1.21 H	3	7.11	37.26
5	#5470.00	56.24 PK	68.30	-12.06	1.24 H	3	18.98	37.26
6	*5500.00	112.40 PK			1.21 H	4	75.14	37.26
7	*5500.00	101.30 AV			1.21 H	4	64.04	37.26
8	7333.30	51.40 PK	74.00	-22.60	1.01 H	28	8.27	43.13
9	7333.30	39.50 AV	54.00	-14.50	1.01 H	28	-3.63	43.13
10	11000.00	56.30 PK	74.00	-17.70	1.02 H	37	9.15	47.15
11	11000.00	42.50 AV	54.00	-11.50	1.02 H	37	-4.65	47.15

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	3666.60	43.26 PK	74.00	-30.74	1.25 V	1	9.85	33.41
2	3666.60	32.41 AV	54.00	-21.59	1.25 V	1	-1.00	33.41
3	5460.00	57.47 PK	74.00	-16.53	1.28 V	1	20.21	37.26
4	5460.00	43.87 AV	54.00	-10.13	1.28 V	1	6.61	37.26
5	#5470.00	58.35 PK	68.30	-9.95	1.28 V	1	21.09	37.26
6	*5500.00	115.67 PK			1.26 V	3	78.41	37.26
7	*5500.00	105.66 AV			1.26 V	3	68.40	37.26
8	7333.30	51.77 PK	74.00	-22.23	1.04 V	6	8.64	43.13
9	7333.30	39.96 AV	54.00	-14.04	1.04 V	6	-3.17	43.13
10	11000.00	57.83 PK	74.00	-16.17	1.06 V	40	10.68	47.15
11	11000.00	43.66 AV	54.00	-10.34	1.06 V	40	-3.49	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	43.10 PK	74.00	-30.90	1.04 H	21	9.49	33.61
2	3733.30	31.60 AV	54.00	-22.40	1.04 H	21	-2.01	33.61
3	*5600.00	116.30 PK			1.26 H	7	78.76	37.54
4	*5600.00	105.60 AV			1.26 H	7	68.06	37.54
5	7466.60	54.70 PK	74.00	-19.30	1.02 H	12	11.58	43.12
6	7466.60	39.40 AV	54.00	-14.60	1.02 H	12	-3.72	43.12
7	11200.00	57.40 PK	74.00	-16.60	1.04 H	0	10.22	47.18
8	11200.00	43.50 AV	54.00	-10.50	1.04 H	0	-3.68	47.18

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	3733.30	43.28 PK	74.00	-30.72	1.26 V	357	9.67	33.61
2	3733.30	31.99 AV	54.00	-22.01	1.26 V	357	-1.62	33.61
3	*5600.00	120.07 PK			1.14 V	351	82.53	37.54
4	*5600.00	109.80 AV			1.14 V	351	72.26	37.54
5	7466.60	55.12 PK	74.00	-18.88	1.05 V	6	12.00	43.12
6	7466.60	40.96 AV	54.00	-13.04	1.05 V	6	-2.16	43.12
7	11200.00	57.97 PK	74.00	-16.03	1.12 V	38	10.79	47.18
8	11200.00	43.86 AV	54.00	-10.14	1.12 V	38	-3.32	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3800.00	44.30 PK	74.00	-29.70	1.02 H	24	10.48	33.82
2	3800.00	35.10 AV	54.00	-18.90	1.02 H	24	1.28	33.82
3	*5700.00	114.80 PK			1.24 H	2	76.97	37.83
4	*5700.00	104.20 AV			1.24 H	2	66.37	37.83
5	#5725.00	62.31 PK	68.30	-5.99	1.24 H	2	24.41	37.90
6	7600.00	50.60 PK	74.00	-23.40	1.04 H	13	7.29	43.31
7	7600.00	39.20 AV	54.00	-14.80	1.04 H	13	-4.11	43.31
8	11400.00	57.10 PK	74.00	-16.90	1.01 H	21	9.89	47.21
9	11400.00	42.70 AV	54.00	-11.30	1.01 H	21	-4.51	47.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

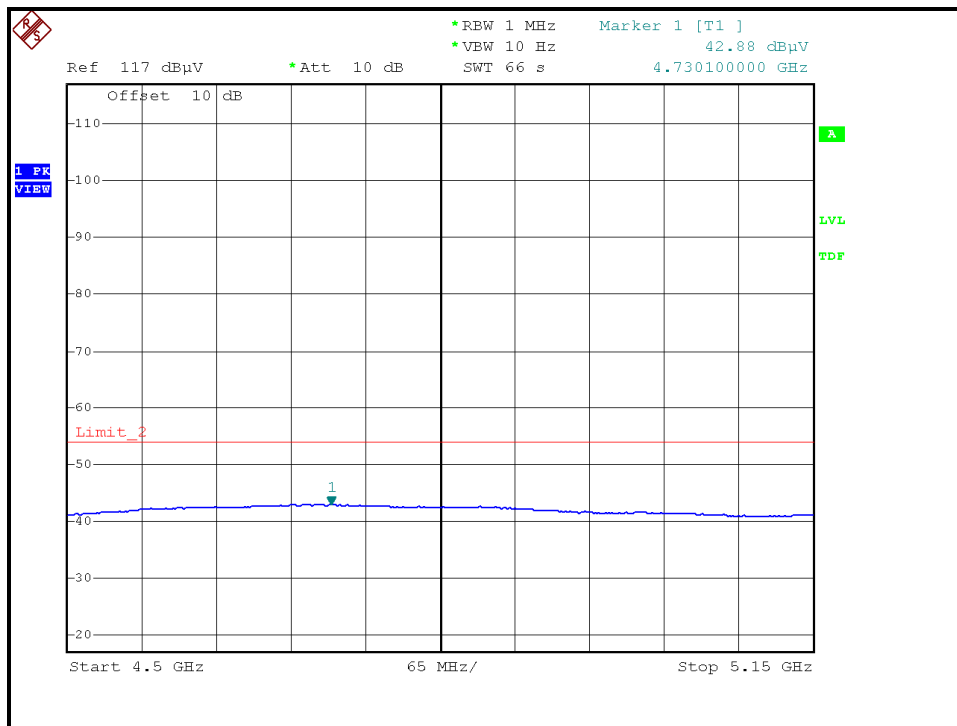
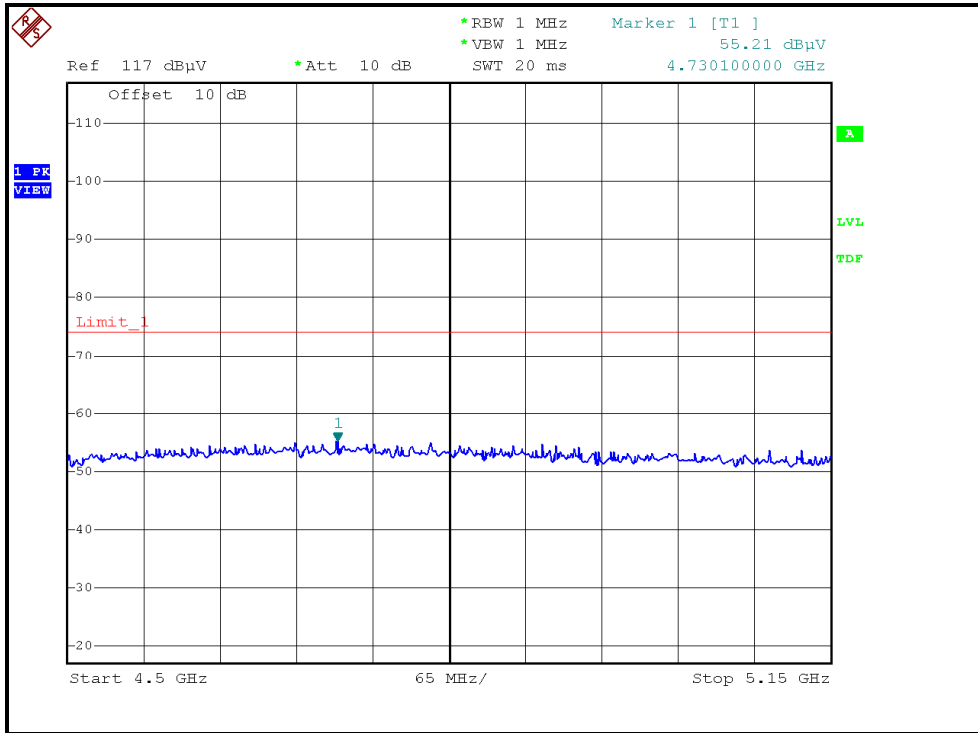
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	44.82 PK	74.00	-29.18	1.28 V	6	11.00	33.82
2	3800.00	35.47 AV	54.00	-18.53	1.28 V	6	1.65	33.82
3	*5700.00	118.52 PK			1.20 V	5	80.69	37.83
4	*5700.00	108.30 AV			1.20 V	5	70.47	37.83
5	#5725.00	64.50 PK	68.30	-3.80	1.20 V	4	26.60	37.90
6	7600.00	51.83 PK	74.00	-22.17	1.06 V	4	8.52	43.31
7	7600.00	40.75 AV	54.00	-13.25	1.06 V	4	-2.56	43.31
8	11400.00	57.46 PK	74.00	-16.54	1.10 V	36	10.25	47.21
9	11400.00	43.35 AV	54.00	-10.65	1.10 V	36	-3.86	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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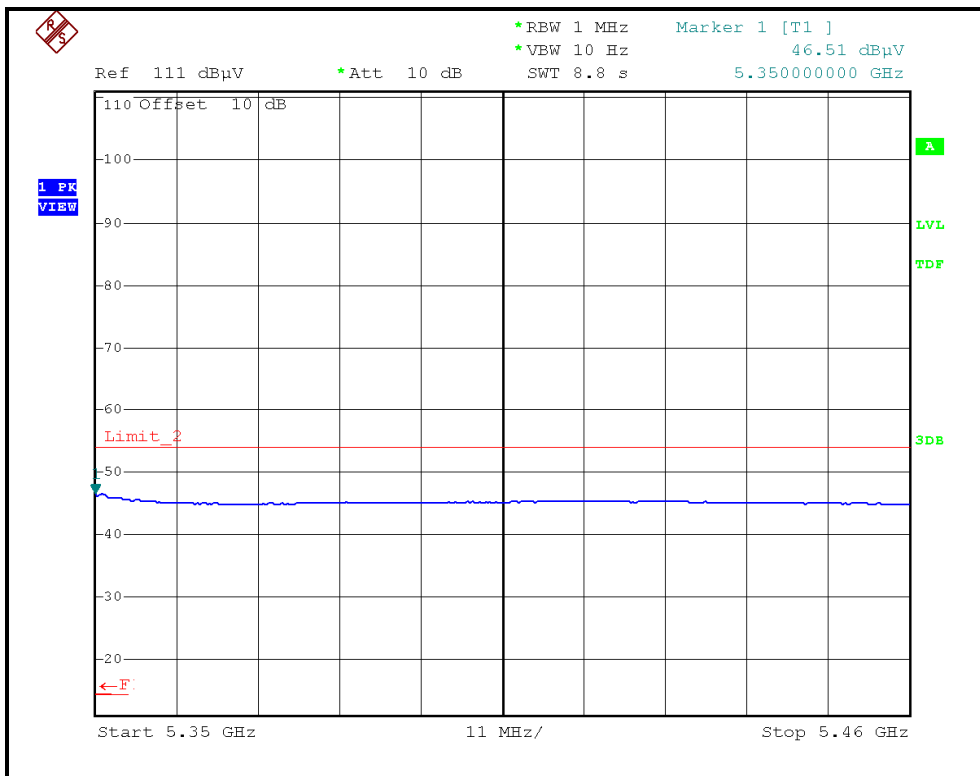
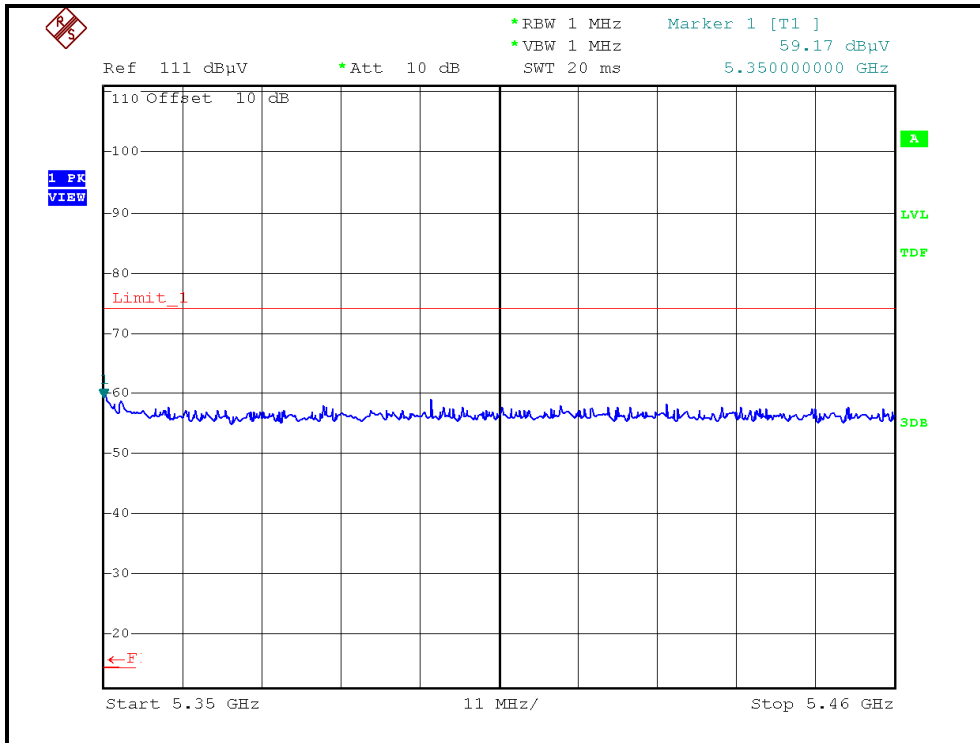
RESTRICTED BANDEDGE (802.11a MODE, CH5, HORIZONTAL)





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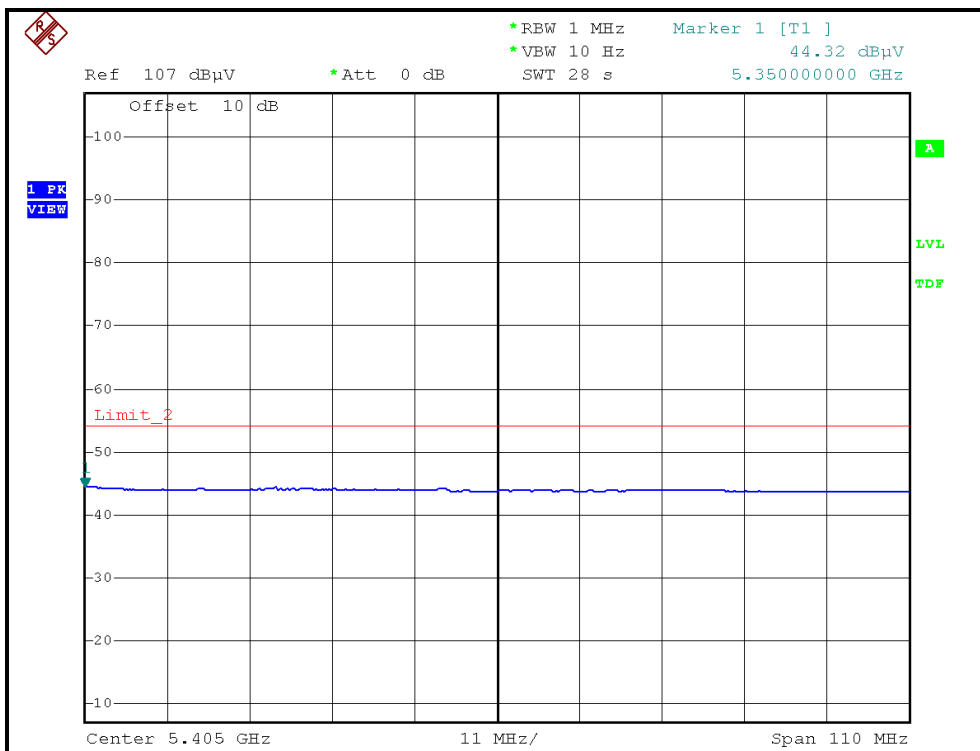
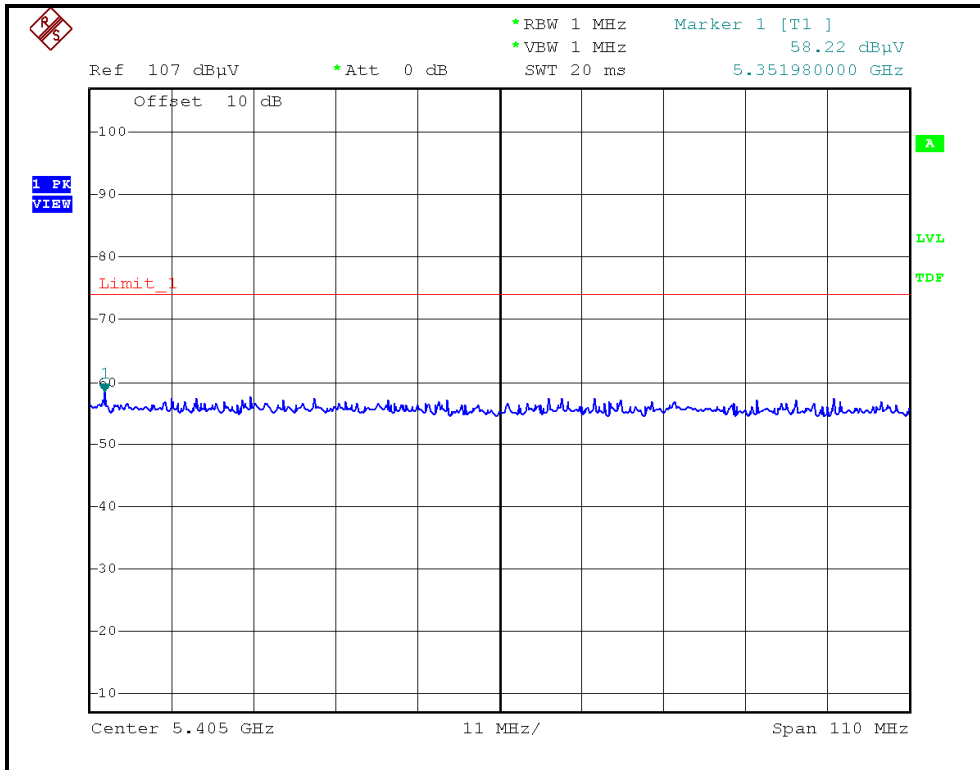
RESTRICTED BANDEDGE (802.11a MODE, CH8, HORIZONTAL)





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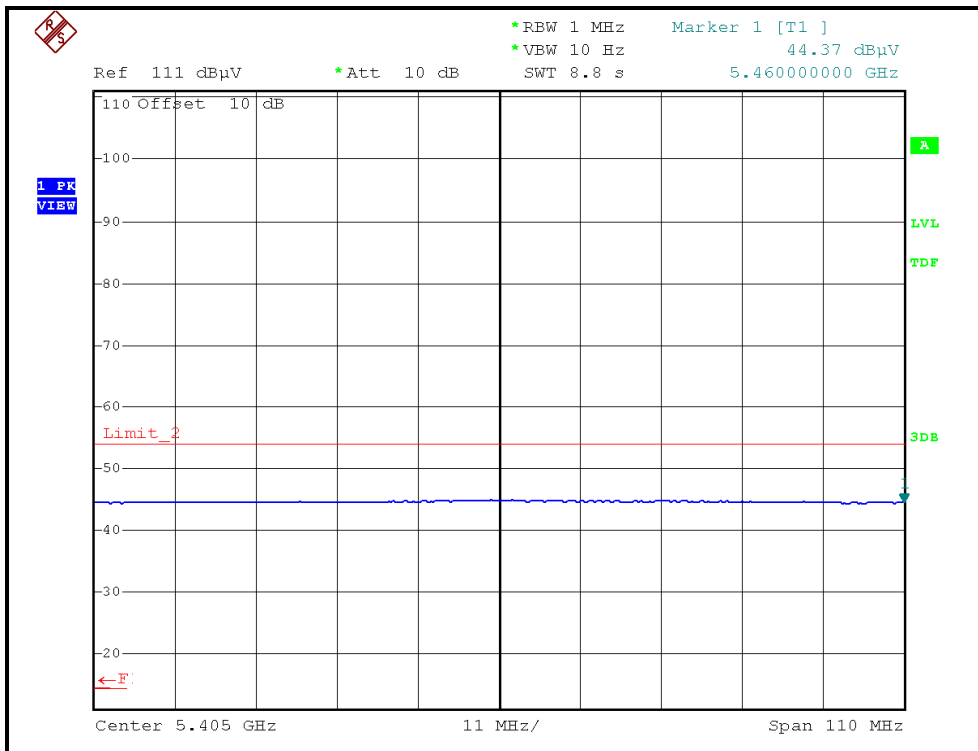
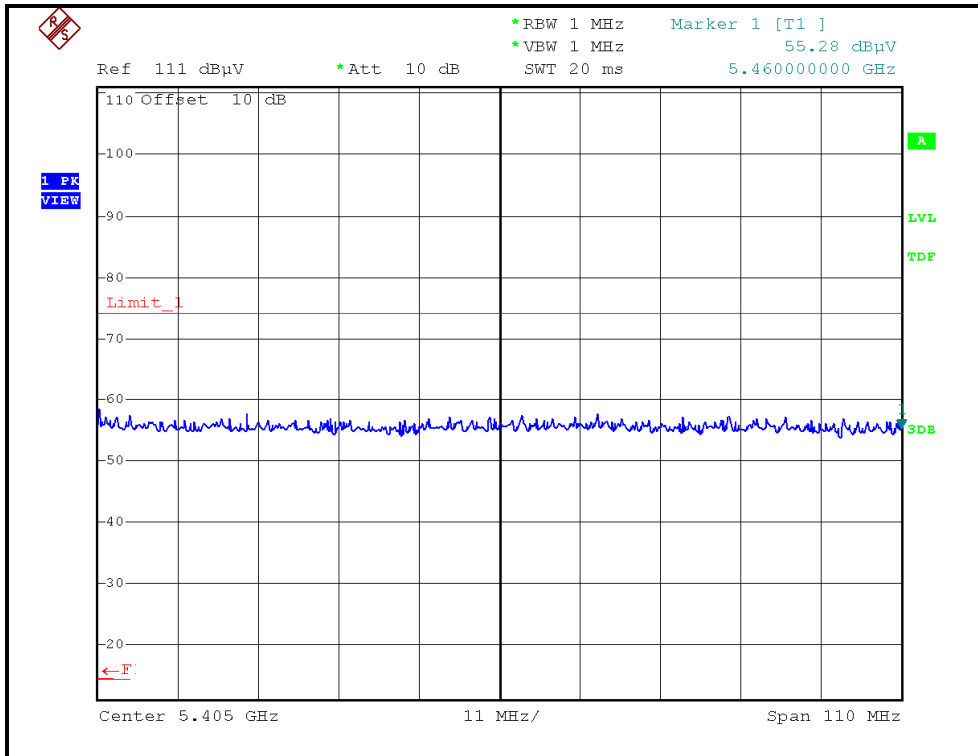
RESTRICTED BANDEDGE (802.11a MODE,CH8, VERTICAL)





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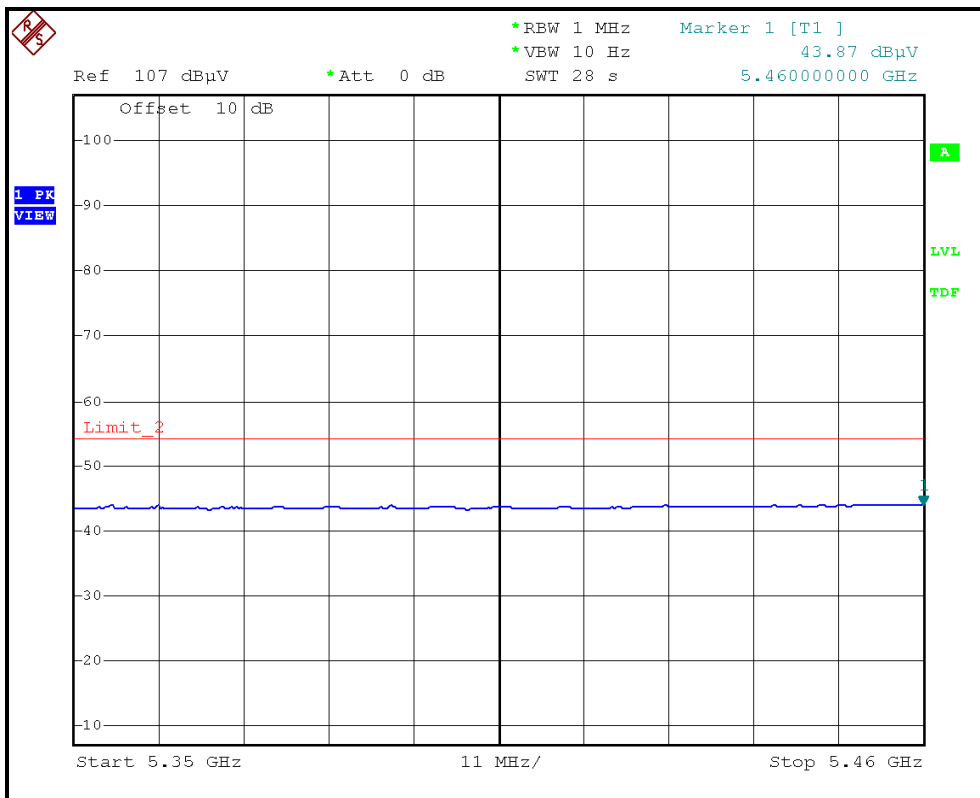
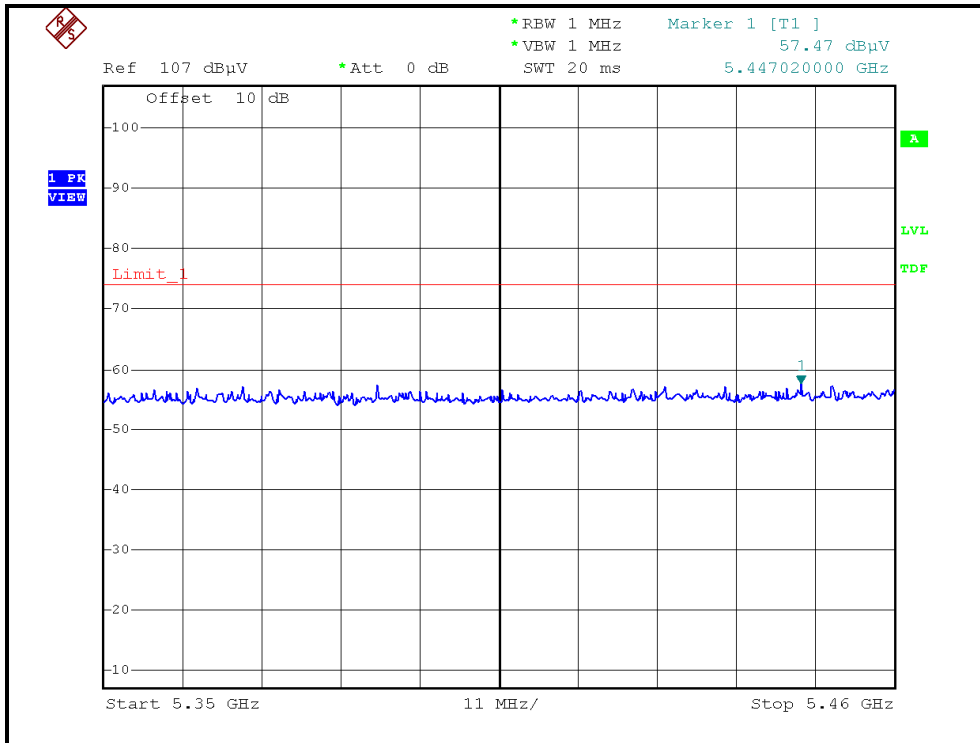
RESTRICTED BANDEDGE (802.11a MODE, CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11a MODE,CH9, VERTICAL)





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DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	41.70 PK	68.30	-26.60	1.02 H	43	8.77	32.93
2	4731.40	55.52 PK	74.00	-18.48	1.21 H	15	18.98	36.54
3	4731.40	42.87 AV	54.00	-11.13	1.21 H	15	6.33	36.54
4	*5260.00	115.30 PK			1.20 H	9	78.04	37.26
5	*5260.00	104.20 AV			1.20 H	9	66.94	37.26
6	#7013.30	53.10 PK	68.30	-15.20	1.02 H	15	9.94	43.16
7	#10520.00	56.20 PK	68.30	-12.10	1.04 H	26	9.43	46.77

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	#3506.60	41.94 PK	68.30	-26.36	1.30 V	2	9.01	32.93
2	4700.20	55.63 PK	74.00	-18.37	1.14 V	356	19.17	36.46
3	4700.20	42.87 AV	54.00	-11.13	1.14 V	356	6.41	36.46
4	*5260.00	119.93 PK			1.19 V	358	82.67	37.26
5	*5260.00	109.72 AV			1.19 V	358	72.46	37.26
6	#7013.30	53.32 PK	68.30	-14.98	1.05 V	13	10.16	43.16
7	#10520.00	56.92 PK	68.30	-11.38	1.20 V	6	10.15	46.77

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	41.10 PK	68.30	-27.20	1.06 H	26	8.09	33.01
2	*5300.00	114.20 PK			1.24 H	2	76.94	37.26
3	*5300.00	103.40 AV			1.24 H	2	66.14	37.26
4	#7066.60	52.40 PK	68.30	-15.90	1.04 H	31	9.25	43.15
5	10600.00	57.30 PK	74.00	-16.70	1.02 H	24	10.47	46.83
6	10600.00	43.10 AV	54.00	-10.90	1.02 H	24	-3.73	46.83
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	#3533.30	41.31 PK	68.30	-26.99	1.00 V	357	8.30	33.01
2	*5300.00	118.88 PK			1.18 V	358	81.62	37.26
3	*5300.00	108.32 AV			1.18 V	358	71.06	37.26
4	#7066.60	52.27 PK	68.30	-16.03	1.12 V	1	9.12	43.15
5	10600.00	57.58 PK	74.00	-16.42	1.18 V	4	10.75	46.83
6	10600.00	43.45 AV	54.00	-10.55	1.18 V	4	-3.38	46.83

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3456.60	42.10 PK	68.30	-26.20	1.02 H	42	9.23	32.87
2	*5320.00	113.80 PK			1.26 H	7	76.54	37.26
3	*5320.00	102.90 AV			1.26 H	7	65.64	37.26
4	5350.00	57.09 PK	74.00	-16.91	1.21 H	4	19.83	37.26
5	5350.00	44.50 AV	54.00	-9.50	1.21 H	4	7.24	37.26
6	#7093.30	51.30 PK	68.30	-17.00	1.03 H	24	8.15	43.15
7	10640.00	57.40 PK	74.00	-16.60	1.04 H	21	10.54	46.86
8	10640.00	43.20 AV	54.00	-10.80	1.04 H	21	-3.66	46.86
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	#3546.60	42.02 PK	68.30	-26.28	1.28 V	11	8.97	33.05
2	*5320.00	118.01 PK			1.15 V	353	80.75	37.26
3	*5320.00	107.70 AV			1.15 V	353	70.44	37.26
4	5350.00	57.56 PK	74.00	-16.44	1.15 V	354	20.30	37.26
5	5350.00	44.34 AV	54.00	-9.66	1.15 V	354	7.08	37.26
6	#7093.30	51.98 PK	68.30	-16.32	1.14 V	2	8.83	43.15
7	10640.00	57.68 PK	74.00	-16.32	1.20 V	2	10.82	46.86
8	10640.00	43.71 AV	54.00	-10.29	1.20 V	2	-3.15	46.86

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	43.10 PK	74.00	-30.90	1.02 H	26	9.69	33.41
2	3666.60	32.03 AV	54.00	-21.97	1.02 H	26	-1.38	33.41
3	5460.00	55.64 PK	74.00	-18.36	1.20 H	10	18.38	37.26
4	5460.00	44.31 AV	54.00	-9.69	1.20 H	10	7.05	37.26
5	#5470.00	56.80 PK	68.30	-11.50	1.24 H	7	19.54	37.26
6	*5500.00	112.60 PK			1.24 H	3	75.34	37.26
7	*5500.00	101.20 AV			1.24 H	3	63.94	37.26
8	7333.30	51.20 PK	74.00	-22.80	1.01 H	31	8.07	43.13
9	7333.30	39.40 AV	54.00	-14.60	1.01 H	31	-3.73	43.13
10	11000.00	54.10 PK	74.00	-19.90	1.00 H	24	6.95	47.15
11	11000.00	40.70 AV	54.00	-13.30	1.00 H	24	-6.45	47.15

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	3666.60	43.20 PK	74.00	-30.80	1.24 V	3	9.79	33.41
2	3666.60	32.34 AV	54.00	-21.66	1.24 V	3	-1.07	33.41
3	5373.00	57.11 PK	74.00	-16.89	1.15 V	8	19.85	37.26
4	5373.00	43.69 AV	54.00	-10.31	1.15 V	8	6.43	37.26
5	#5470.00	57.96 PK	68.30	-10.34	1.15 V	6	20.70	37.26
6	*5500.00	116.47 PK			1.12 V	7	79.21	37.26
7	*5500.00	105.80 AV			1.12 V	7	68.54	37.26
8	7333.30	51.62 PK	74.00	-22.38	1.00 V	3	8.49	43.13
9	7333.30	39.86 AV	54.00	-14.14	1.00 V	3	-3.27	43.13
10	11000.00	54.75 PK	74.00	-19.25	1.20 V	357	7.60	47.15
11	11000.00	41.31 AV	54.00	-12.69	1.20 V	357	-5.84	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * " : Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	43.10 PK	74.00	-30.90	1.04 H	26	9.49	33.61
2	3733.30	31.40 AV	54.00	-22.60	1.04 H	26	-2.21	33.61
3	*5600.00	115.20 PK			1.23 H	0	77.66	37.54
4	*5600.00	103.40 AV			1.23 H	0	65.86	37.54
5	7466.60	52.20 PK	74.00	-21.80	1.06 H	31	9.08	43.12
6	7466.60	42.30 AV	54.00	-11.70	1.06 H	31	-0.82	43.12
7	11200.00	54.80 PK	74.00	-19.20	1.02 H	42	7.62	47.18
8	11200.00	40.40 AV	54.00	-13.60	1.02 H	42	-6.78	47.18

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	3733.30	43.20 PK	74.00	-30.80	1.25 V	359	9.59	33.61
2	3733.30	31.98 AV	54.00	-22.02	1.25 V	359	-1.63	33.61
3	*5600.00	119.13 PK			1.21 V	6	81.59	37.54
4	*5600.00	108.62 AV			1.21 V	6	71.08	37.54
5	7466.60	52.41 PK	74.00	-21.59	1.00 V	4	9.29	43.12
6	7466.60	42.48 AV	54.00	-11.52	1.00 V	4	-0.64	43.12
7	11200.00	55.00 PK	74.00	-19.00	1.16 V	358	7.82	47.18
8	11200.00	40.83 AV	54.00	-13.17	1.16 V	358	-6.35	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

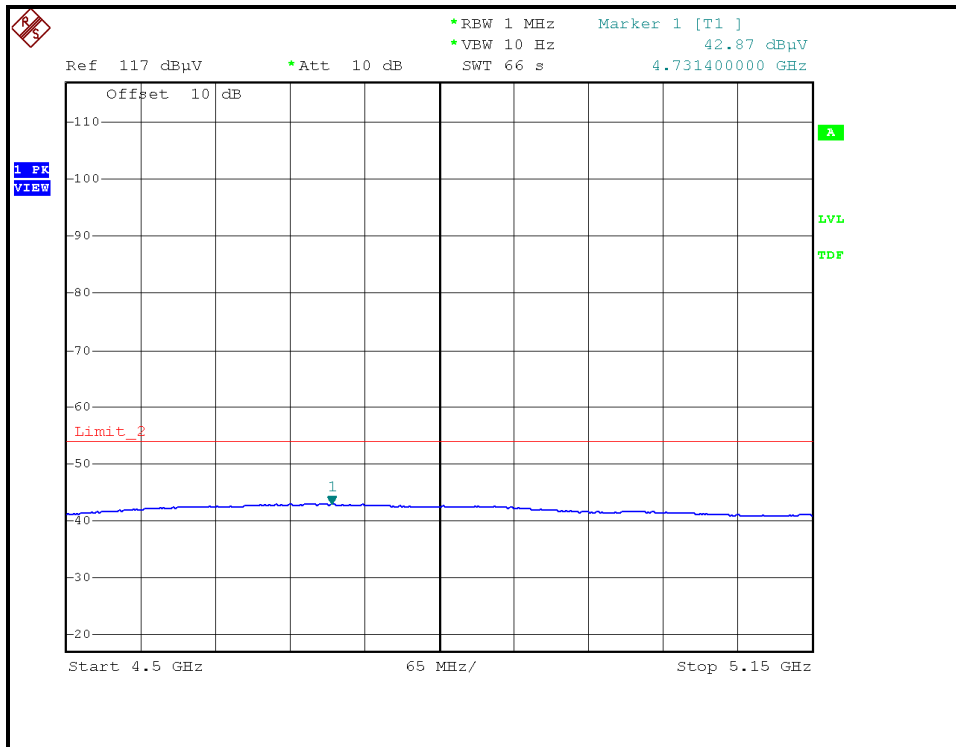
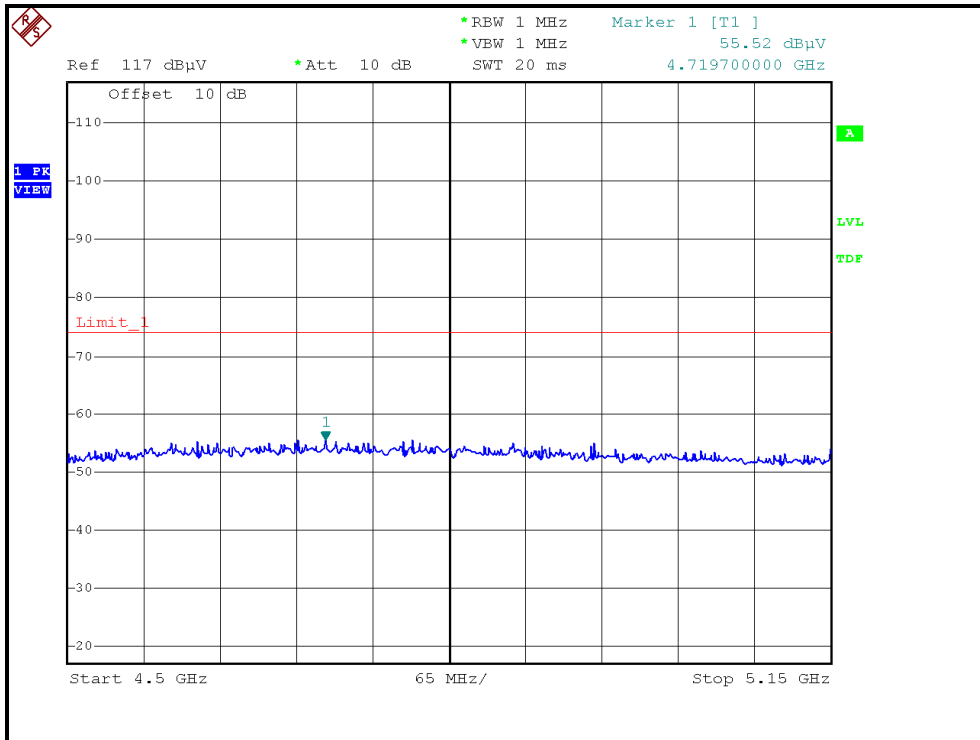
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	44.50 PK	74.00	-29.50	1.04 H	12	10.68	33.82
2	3800.00	34.30 AV	54.00	-19.70	1.04 H	12	0.48	33.82
3	*5700.00	113.40 PK			1.21 H	7	75.57	37.83
4	*5700.00	101.90 AV			1.21 H	7	64.07	37.83
5	#5725.00	64.70 PK	68.30	-3.60	1.26 H	24	26.80	37.90
6	7600.00	51.40 PK	74.00	-22.60	1.02 H	15	8.09	43.31
7	7600.00	40.20 AV	54.00	-13.80	1.02 H	15	-3.11	43.31
8	11400.00	55.60 PK	74.00	-18.40	1.04 H	19	8.39	47.21
9	11400.00	42.10 AV	54.00	-11.90	1.04 H	19	-5.11	47.21
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	3800.00	49.94 PK	74.00	-24.06	1.23 V	19	16.12	33.82
2	3800.00	34.53 AV	54.00	-19.47	1.23 V	19	0.71	33.82
3	*5700.00	117.65 PK			1.19 V	7	79.82	37.83
4	*5700.00	106.98 AV			1.19 V	7	69.15	37.83
5	#5725.00	65.16 PK	68.30	-3.14	1.18 V	6	27.26	37.90
6	7600.00	51.95 PK	74.00	-22.05	1.08 V	3	8.64	43.31
7	7600.00	40.73 AV	54.00	-13.27	1.08 V	3	-2.58	43.31
8	11400.00	55.52 PK	74.00	-18.48	1.20 V	355	8.31	47.21
9	11400.00	42.09 AV	54.00	-11.91	1.20 V	355	-5.12	47.21

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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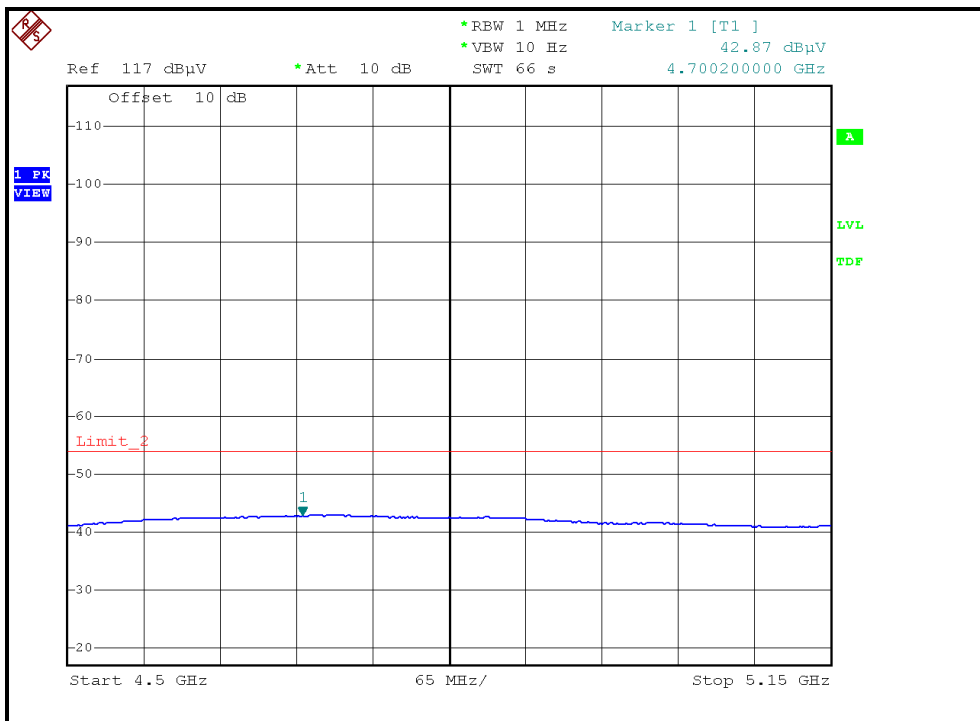
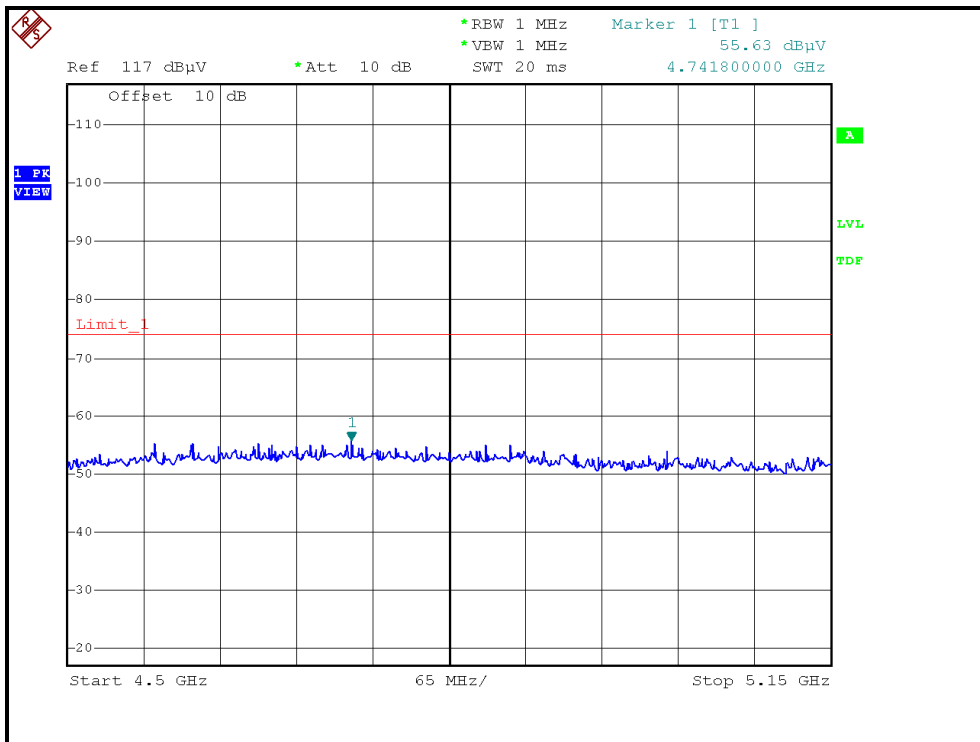
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH5, HORIZONTAL)





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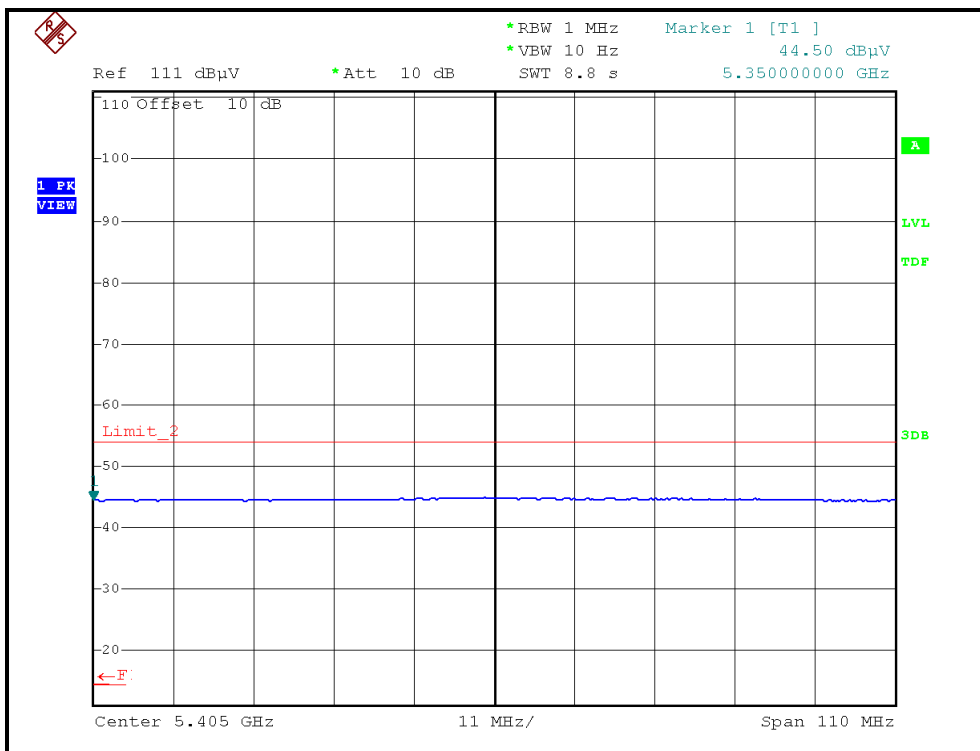
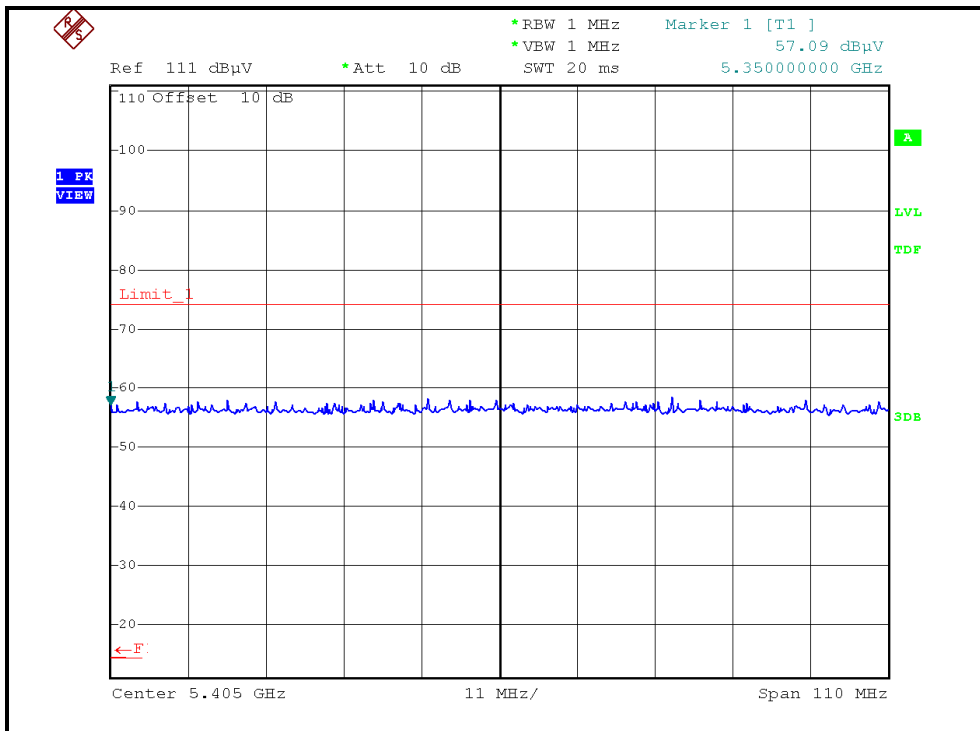
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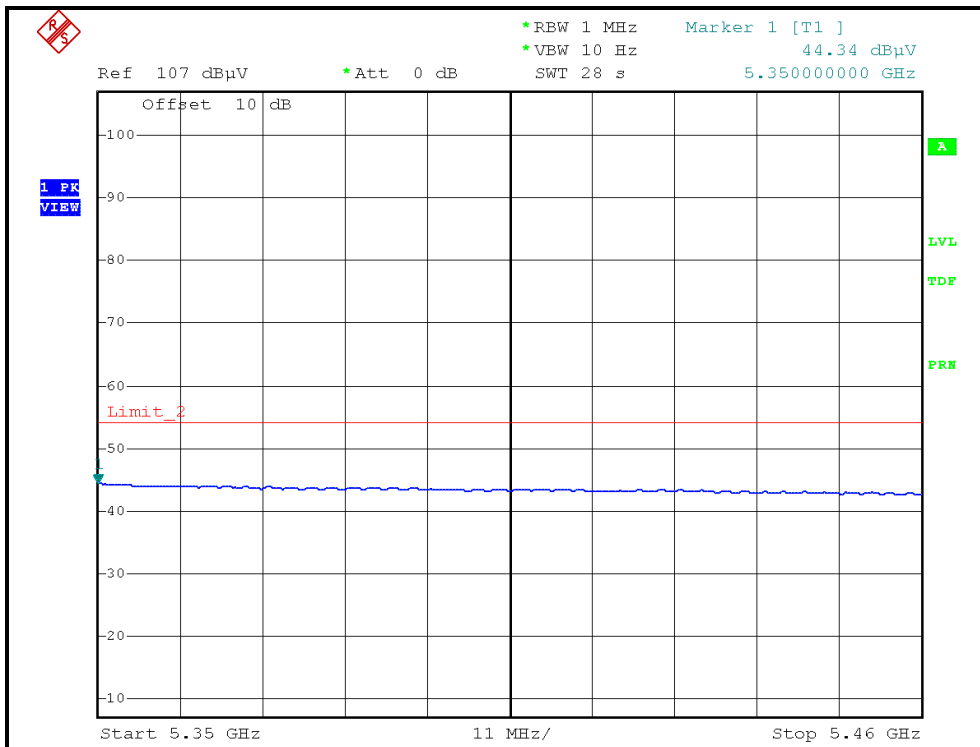
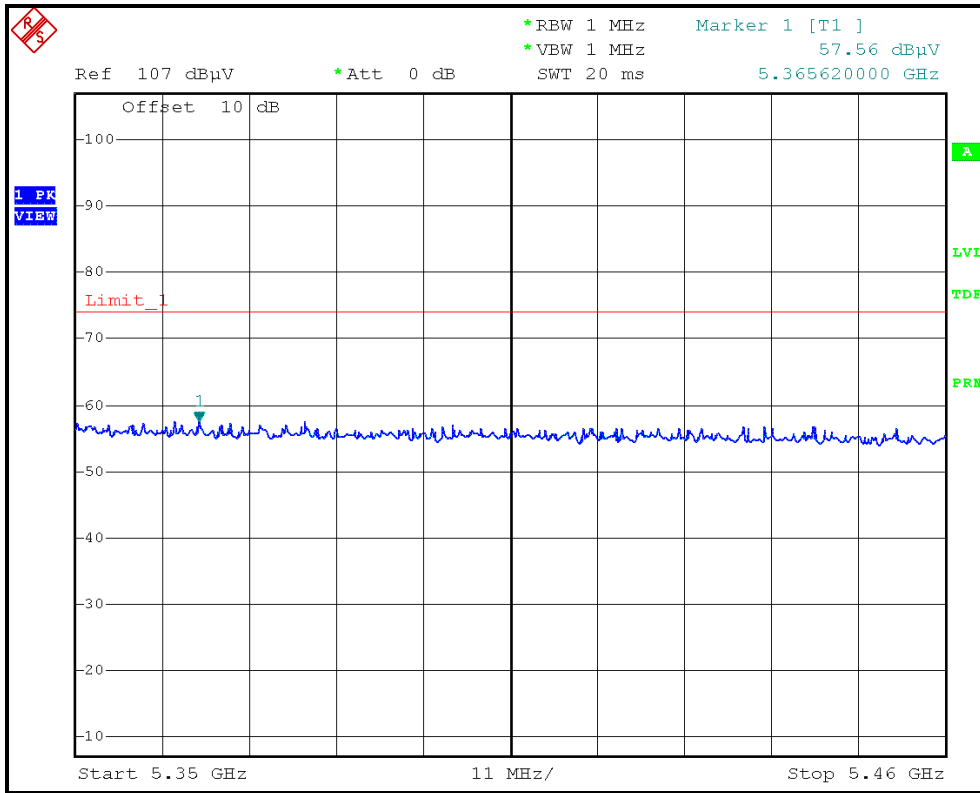
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH8, HORIZONTAL)





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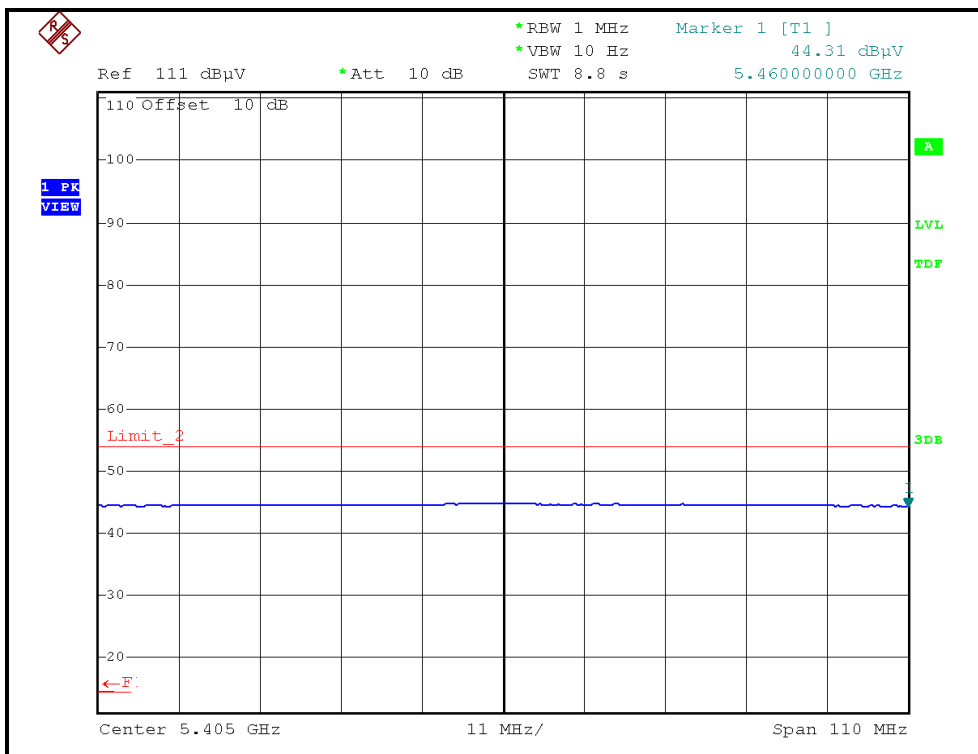
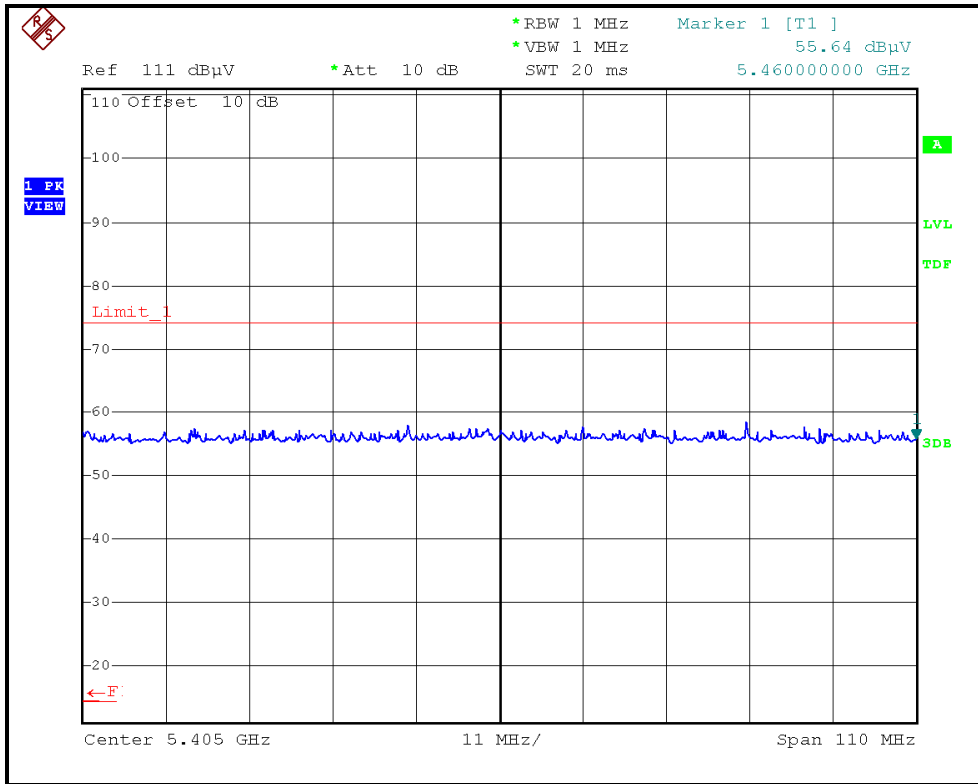
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH8, VERTICAL)





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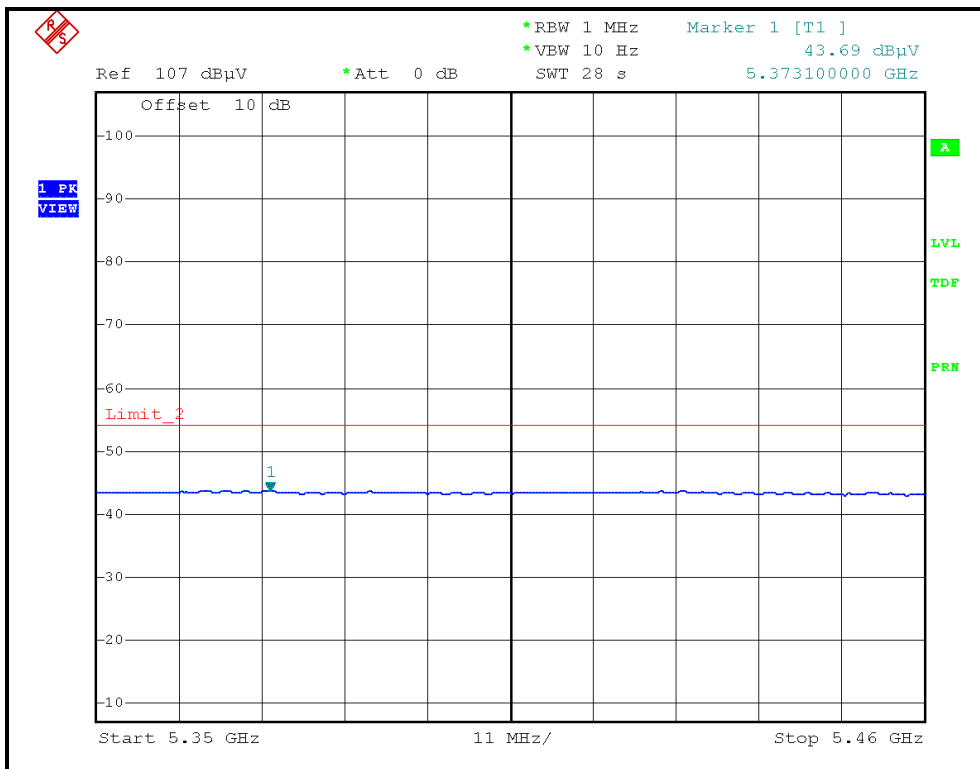
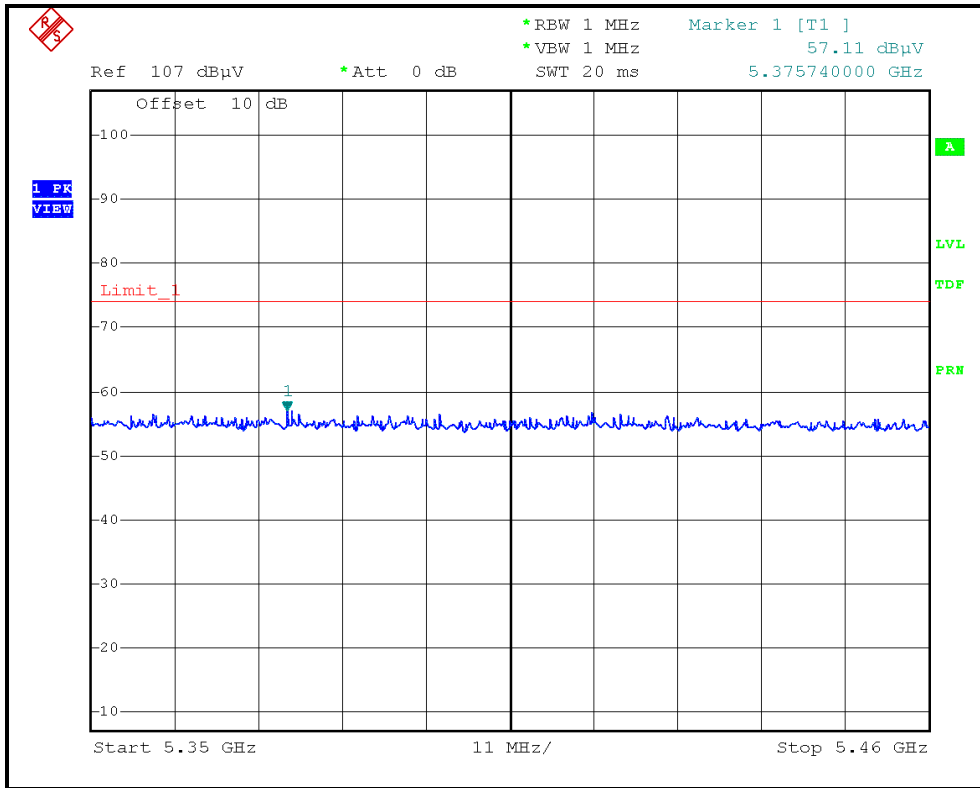
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH9, VERTICAL)





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DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Eric Lee

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	#3513.30	41.30 PK	68.30	-27.00	1.04 H	31	8.35	32.95
2	4745.70	55.44 PK	74.00	-18.56	1.24 H	6	18.86	36.58
3	4745.70	42.89 AV	54.00	-11.11	1.24 H	6	6.31	36.58
4	*5270.00	113.20 PK			1.21 H	9	75.94	37.26
5	*5270.00	103.30 AV			1.21 H	9	66.04	37.26
6	#7026.60	53.10 PK	68.30	-15.20	1.02 H	42	9.94	43.16
7	#10540.00	56.40 PK	68.30	-11.90	1.06 H	29	9.62	46.78

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	#3513.30	41.93 PK	68.30	-26.37	1.28 V	358	8.98	32.95
2	4739.20	54.82 PK	74.00	-19.18	1.24 V	355	18.26	36.56
3	4739.20	42.88 AV	54.00	-11.12	1.24 V	355	6.32	36.56
4	*5270.00	117.74 PK			1.18 V	358	80.48	37.26
5	*5270.00	107.15 AV			1.18 V	358	69.89	37.26
6	#7026.60	53.26 PK	68.30	-15.04	1.05 V	4	10.10	43.16
7	#10540.00	56.87 PK	68.30	-11.43	1.27 V	1	10.09	46.78

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	#3540.00	42.00 PK	68.30	-26.30	1.06 H	31	8.97	33.03
2	*5310.00	111.21 PK			1.29 H	2	73.95	37.26
3	*5310.00	100.20 AV			1.29 H	2	62.94	37.26
4	5350.00	60.11 PK	74.00	-13.89	1.10 H	183	22.85	37.26
5	5350.00	47.11 AV	54.00	-6.89	1.10 H	183	9.85	37.26
6	#7080.00	52.10 PK	68.30	-16.20	1.04 H	42	8.95	43.15
7	10620.00	57.20 PK	74.00	-16.80	1.06 H	26	10.35	46.85
8	10620.00	43.30 AV	54.00	-10.70	1.06 H	26	-3.55	46.85

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	#3540.00	42.18 PK	68.30	-26.12	1.28 V	4	9.15	33.03
2	*5310.00	115.31 PK			1.16 V	353	78.05	37.26
3	*5310.00	104.78 AV			1.16 V	353	67.52	37.26
4	5350.00	70.16 PK	74.00	-3.84	1.20 V	358	32.90	37.26
5	5350.00	53.05 AV	54.00	-0.95	1.20 V	358	15.79	37.26
6	#7080.00	52.08 PK	68.30	-16.22	1.04 V	5	8.93	43.15
7	10620.00	57.66 PK	74.00	-16.34	1.22 V	359	10.81	46.85
8	10620.00	43.75 AV	54.00	-10.25	1.22 V	359	-3.10	46.85

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3673.30	43.20 PK	74.00	-30.80	1.01 H	39	9.77	33.43
2	3673.30	32.10 AV	54.00	-21.90	1.01 H	39	-1.33	33.43
3	5460.00	56.82 PK	74.00	-17.18	1.21 H	3	19.56	37.26
4	5460.00	44.29 AV	54.00	-9.71	1.21 H	3	7.03	37.26
5	#5470.00	67.20 PK	68.30	-1.10	1.02 H	26	29.94	37.26
6	*5510.00	104.20 PK			1.24 H	6	66.91	37.29
7	*5510.00	94.30 AV			1.24 H	6	57.01	37.29
8	7346.60	51.40 PK	74.00	-22.60	1.02 H	42	8.27	43.13
9	7346.60	39.70 AV	54.00	-14.30	1.02 H	42	-3.43	43.13
10	11020.00	57.40 PK	74.00	-16.60	1.04 H	31	10.25	47.15
11	11020.00	43.30 AV	54.00	-10.70	1.04 H	31	-3.85	47.15

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	3673.30	43.38 PK	74.00	-30.62	1.27 V	5	9.95	33.43
2	3673.30	32.56 AV	54.00	-21.44	1.27 V	5	-0.87	33.43
3	5367.00	58.10 PK	74.00	-15.90	1.16 V	7	20.84	37.26
4	5367.00	44.53 AV	54.00	-9.47	1.16 V	7	7.27	37.26
5	#5470.00	67.70 PK	68.30	-0.60	1.13 V	3	30.44	37.26
6	*5510.00	108.68 PK			1.22 V	8	71.39	37.29
7	*5510.00	98.16 AV			1.22 V	8	60.87	37.29
8	7346.60	51.86 PK	74.00	-22.14	1.04 V	7	8.73	43.13
9	7346.60	40.06 AV	54.00	-13.94	1.04 V	7	-3.07	43.13
10	11020.00	57.86 PK	74.00	-16.14	1.20 V	356	10.71	47.15
11	11020.00	43.68 AV	54.00	-10.32	1.20 V	356	-3.47	47.15

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. " * ": Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

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	3726.60	43.10 PK	74.00	-30.90	1.02 H	29	9.51	33.59
2	3726.60	32.20 AV	54.00	-21.80	1.02 H	29	-1.39	33.59
3	*5590.00	111.20 PK			1.23 H	4	73.68	37.52
4	*5590.00	101.30 AV			1.23 H	4	63.78	37.52
5	7453.30	55.03 PK	74.00	-18.97	1.01 H	31	11.91	43.12
6	7453.30	40.10 AV	54.00	-13.90	1.01 H	31	-3.02	43.12
7	11180.00	57.90 PK	74.00	-16.10	1.04 H	41	10.72	47.18
8	11180.00	43.10 AV	54.00	-10.90	1.04 H	41	-4.08	47.18

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	3726.60	43.41 PK	74.00	-30.59	1.29 V	2	9.82	33.59
2	3726.60	32.37 AV	54.00	-21.63	1.29 V	2	-1.22	33.59
3	*5590.00	115.56 PK			1.21 V	9	78.04	37.52
4	*5590.00	105.20 AV			1.21 V	9	67.68	37.52
5	7453.30	55.28 PK	74.00	-18.72	1.08 V	3	12.16	43.12
6	7453.30	41.12 AV	54.00	-12.88	1.08 V	3	-2.00	43.12
7	11180.00	58.12 PK	74.00	-15.88	1.23 V	357	10.94	47.18
8	11180.00	43.96 AV	54.00	-10.04	1.23 V	357	-3.22	47.18

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28.0deg. C, 68.0%RH 965hPa	TESTED BY	Wen Yu

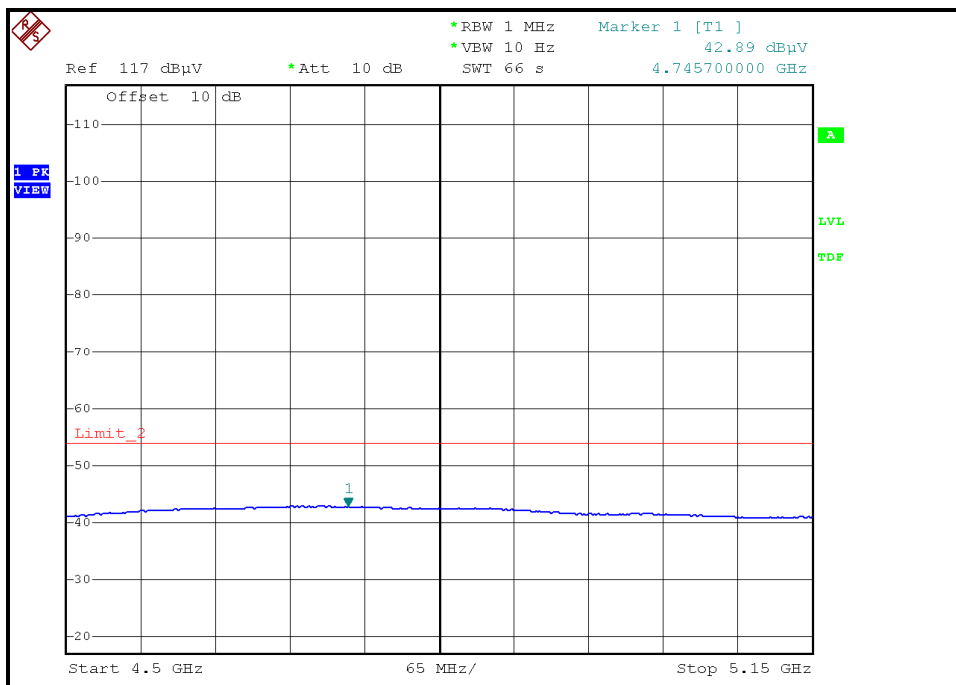
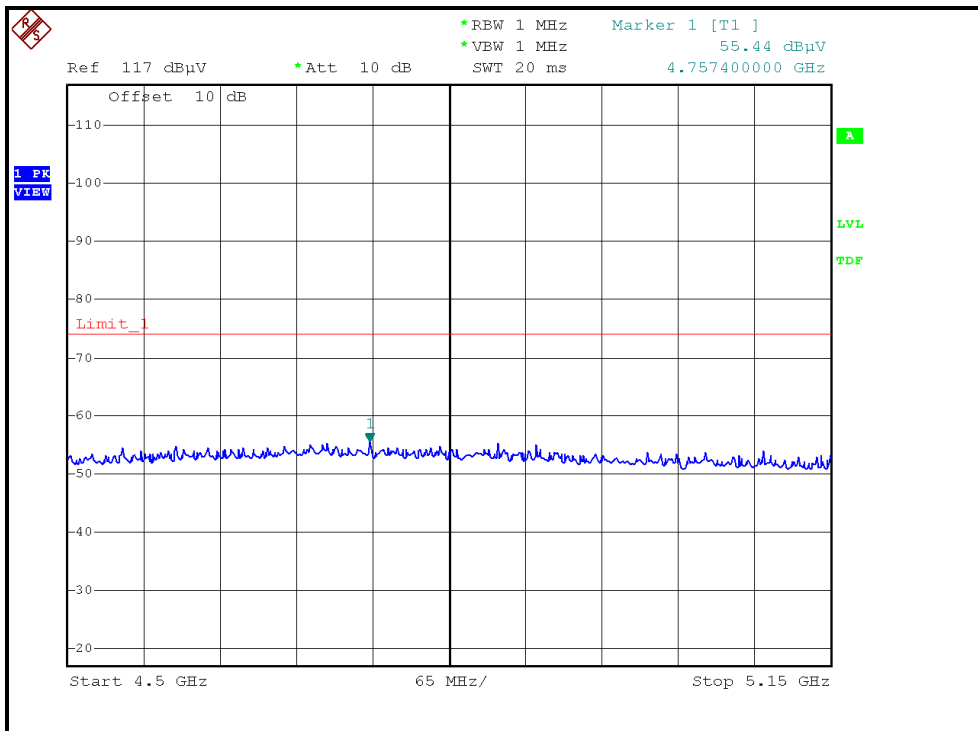
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3780.00	43.40 PK	74.00	-30.60	1.04 H	24	9.64	33.76
2	3780.00	35.20 AV	54.00	-18.80	1.04 H	24	1.44	33.76
3	*5670.00	111.20 PK			1.21 H	9	73.46	37.74
4	*5670.00	101.30 AV			1.21 H	9	63.56	37.74
5	#5725.00	61.03 PK	68.30	-7.27	1.24 H	4	23.13	37.90
6	7560.00	51.40 PK	74.00	-22.60	1.01 H	21	8.17	43.23
7	7560.00	39.30 AV	54.00	-14.70	1.01 H	21	-3.93	43.23
8	11340.00	57.20 PK	74.00	-16.80	1.02 H	26	10.00	47.20
9	11340.00	42.10 AV	54.00	-11.90	1.02 H	26	-5.10	47.20
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	3780.00	44.95 PK	74.00	-29.05	1.27 V	5	11.19	33.76
2	3780.00	35.56 AV	54.00	-18.44	1.27 V	5	1.80	33.76
3	*5670.00	115.06 PK			1.21 V	7	77.32	37.74
4	*5670.00	104.59 AV			1.21 V	7	66.85	37.74
5	#5725.00	64.13 PK	68.30	-4.17	1.21 V	2	26.23	37.90
6	7560.00	51.96 PK	74.00	-22.04	1.06 V	6	8.73	43.23
7	7560.00	40.87 AV	54.00	-13.13	1.06 V	6	-2.36	43.23
8	11340.00	57.56 PK	74.00	-16.44	1.20 V	16	10.36	47.20
9	11340.00	43.48 AV	54.00	-10.52	1.20 V	16	-3.72	47.20

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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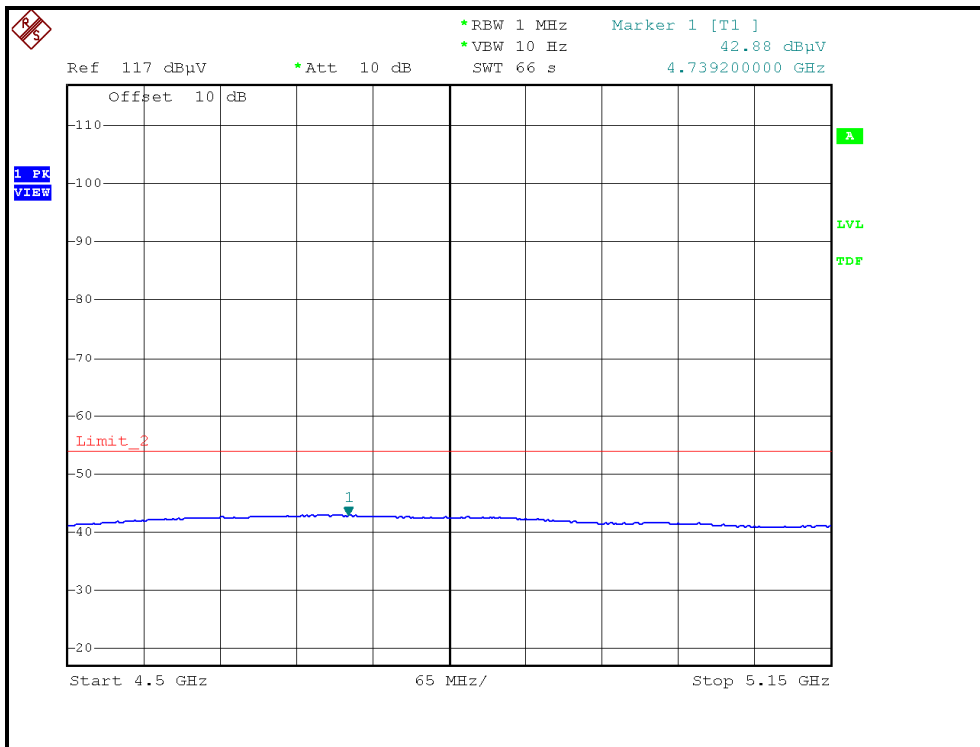
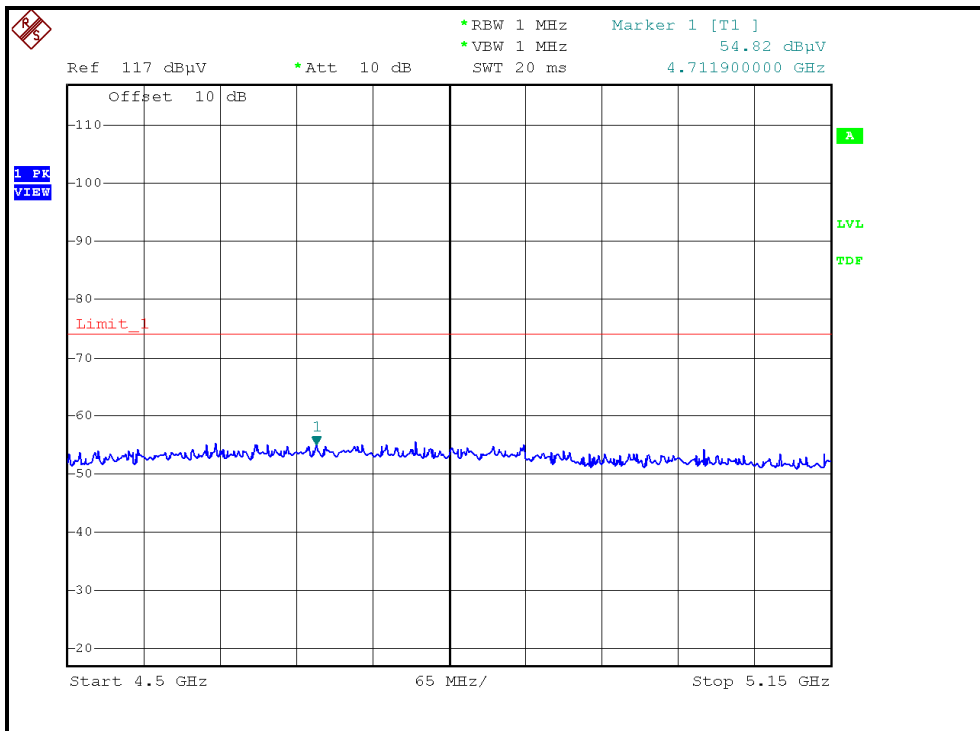
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH3, HORIZONTAL)





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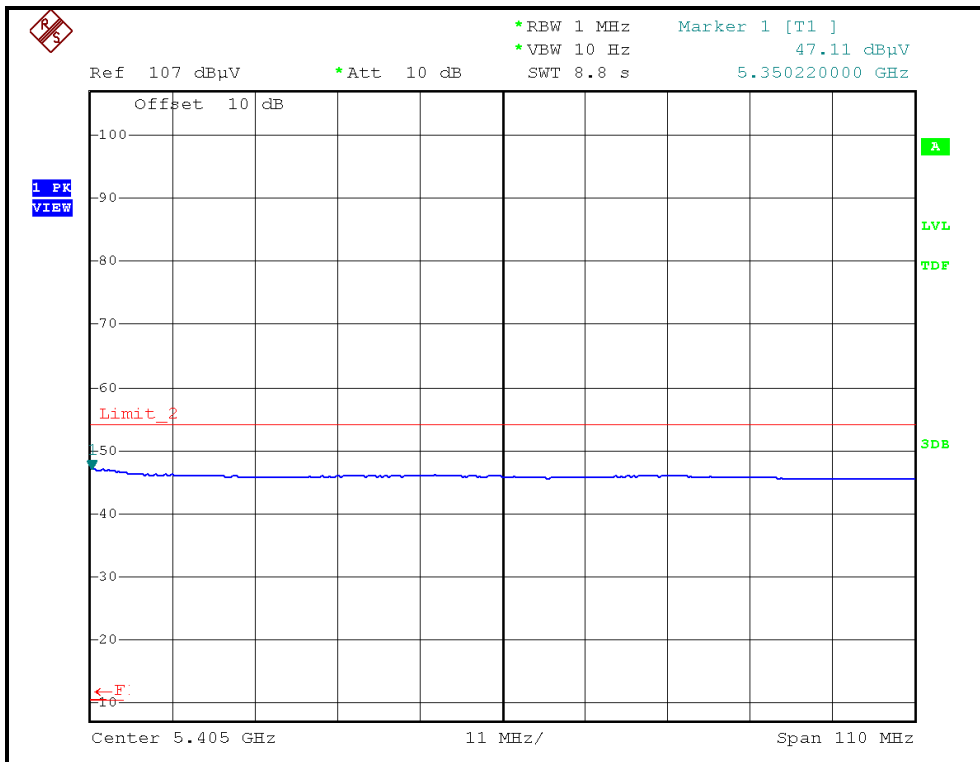
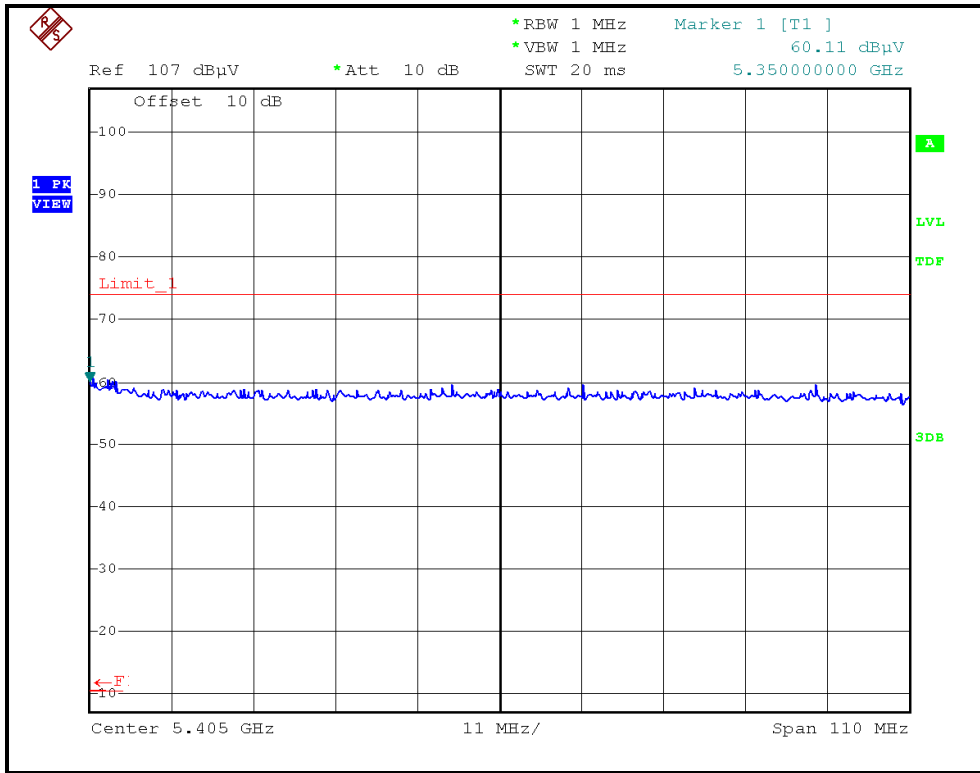
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH3, VERTICAL)





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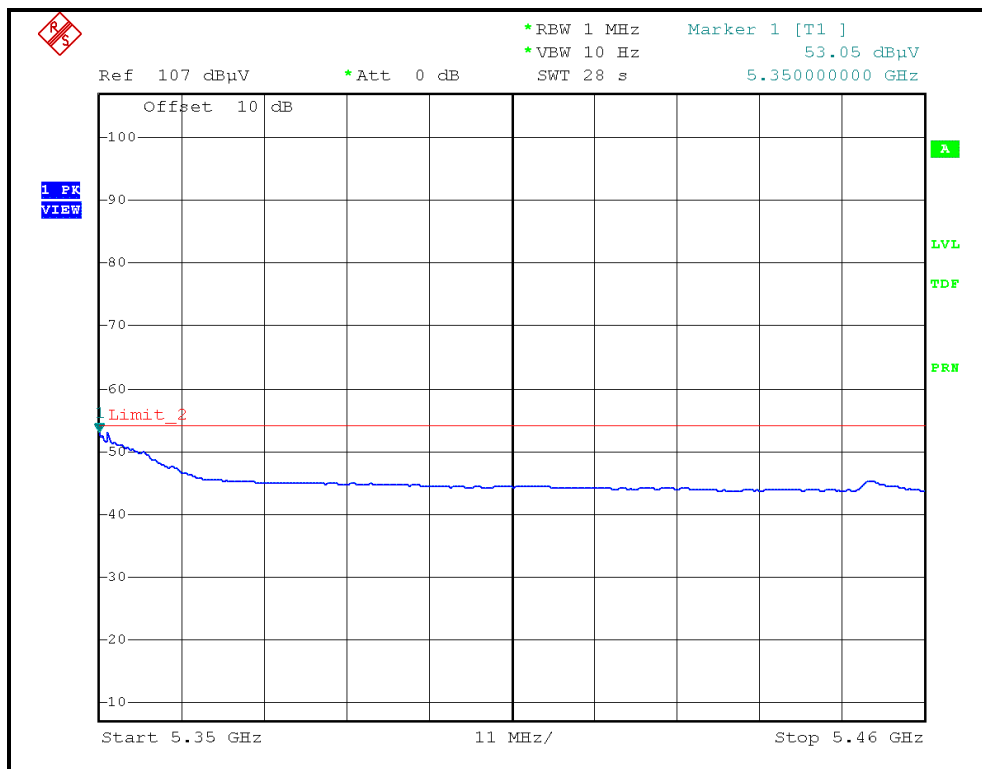
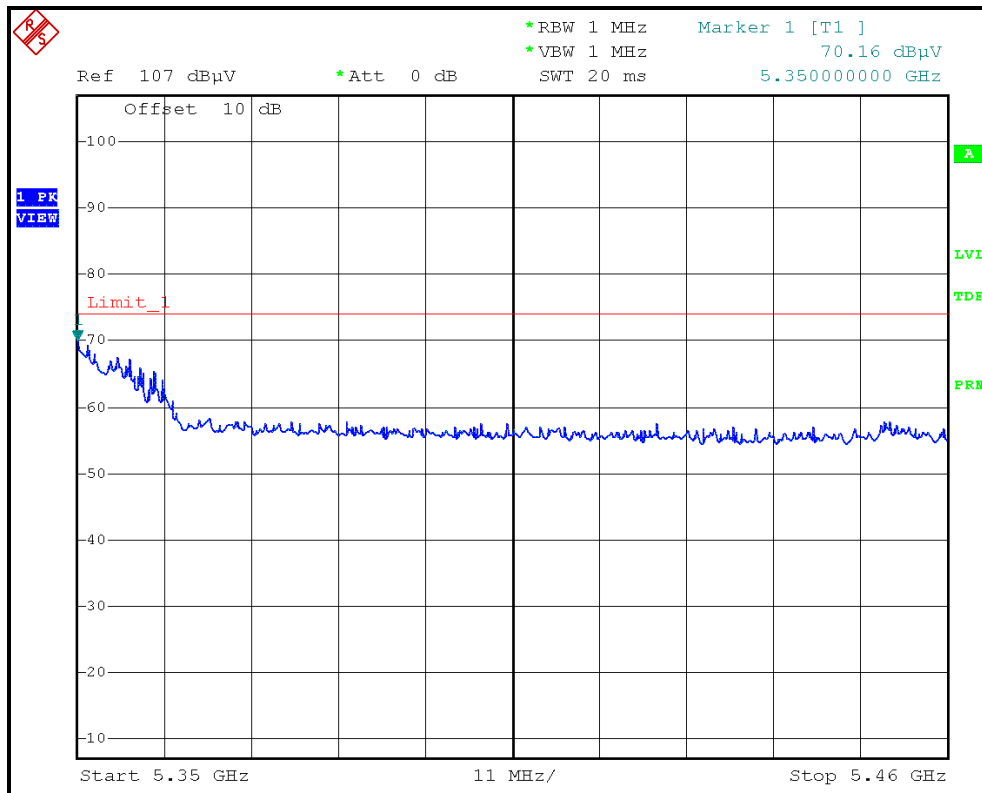
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, HORIZONTAL)





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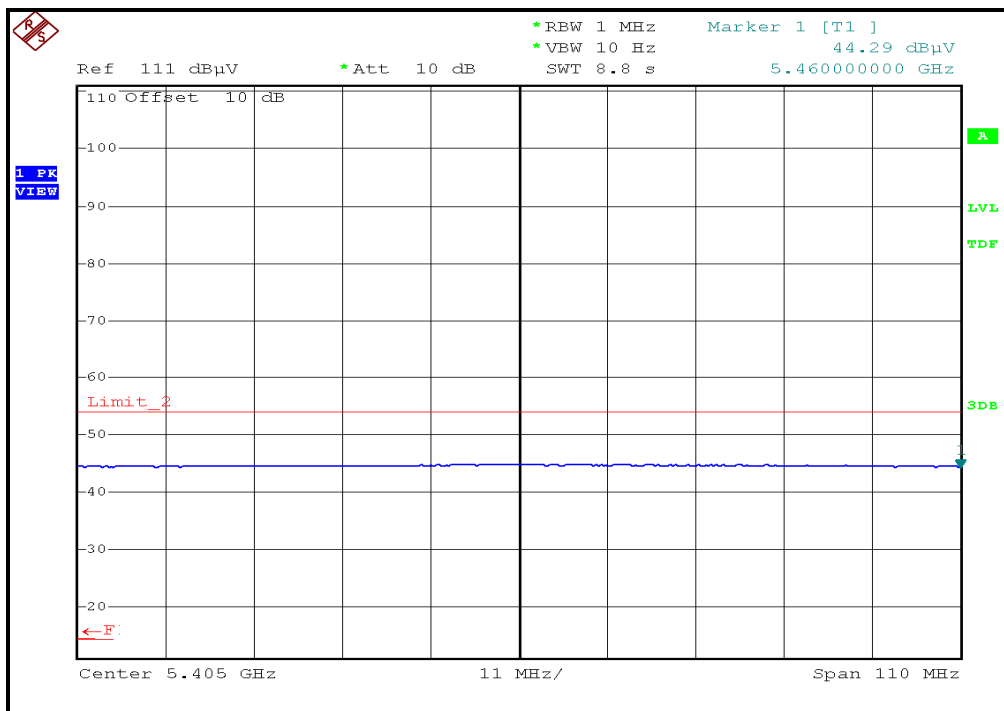
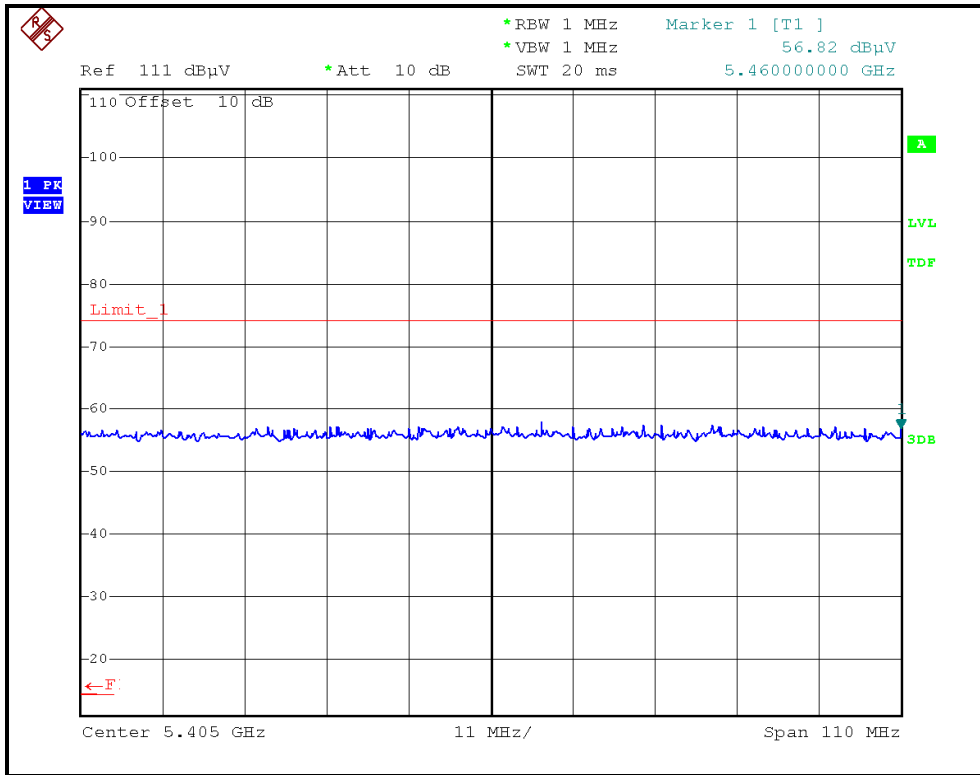
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, VERTICAL)





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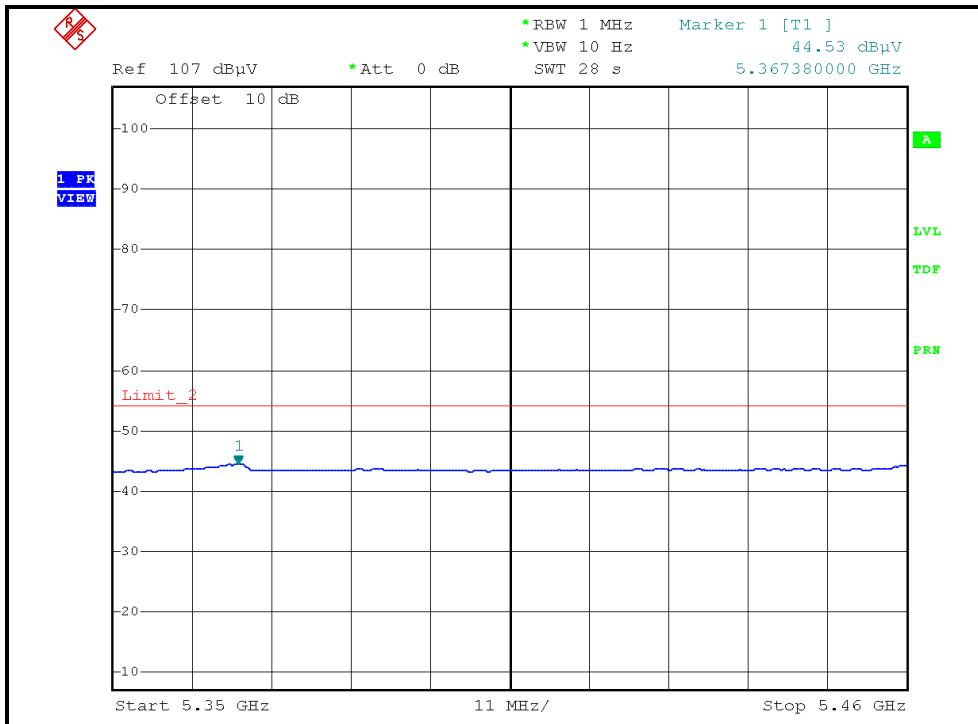
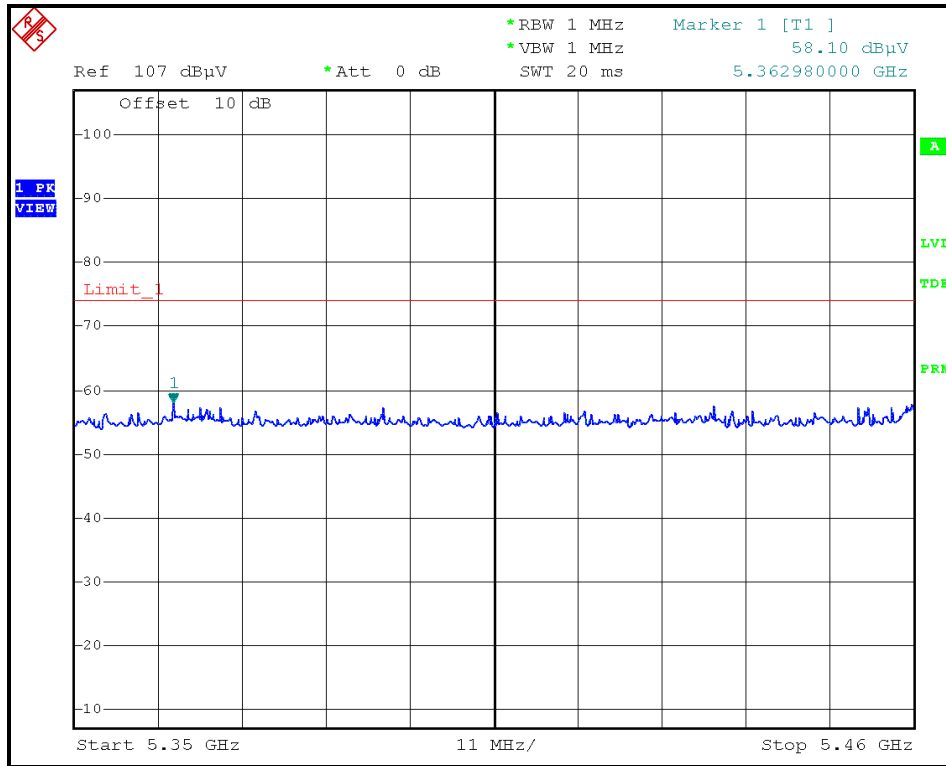
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, VERTICAL)





4.2.13 TEST RESULTS – ANTENNA 12

BELOW 1GHz WORST-CASE DATA : 802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30.0deg. C, 55.0%RH 965hPa	TESTED BY	Frank Liu

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	125.00	31.28 QP	43.50	-12.22	1.55 H	329	18.21	13.07
2	250.00	36.85 QP	46.00	-9.15	1.17 H	277	22.60	14.25
3	375.00	38.86 QP	46.00	-7.14	1.09 H	343	20.05	18.81
4	650.00	43.87 QP	46.00	-2.13	1.05 H	238	18.34	25.53
5	750.00	35.98 QP	46.00	-10.02	1.06 H	268	9.07	26.91
6	875.00	37.96 QP	46.00	-8.04	1.06 H	138	8.67	29.29
7	1000.00	39.69 QP	54.00	-14.31	1.08 H	172	8.95	30.74
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	57.21	32.95 QP	40.00	-7.05	1.00 V	267	19.26	13.69
2	125.00	29.99 QP	43.50	-13.51	1.00 V	168	16.92	13.07
3	250.00	28.86 QP	46.00	-17.14	1.00 V	58	14.61	14.25
4	375.00	39.53 QP	46.00	-6.47	1.07 V	237	20.72	18.81
5	600.00	37.86 QP	46.00	-8.14	1.00 V	259	12.82	25.04
6	650.00	39.88 QP	46.00	-6.12	1.00 V	237	14.35	25.53

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Eric Lee

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	#3506.60	44.60 PK	68.30	-23.70	1.12 H	162	12.27	32.33
2	4715.80	54.81 PK	74.00	-19.19	1.00 H	144	19.53	35.28
3	4715.80	42.88 AV	54.00	-11.12	1.00 H	144	7.60	35.28
4	*5260.00	107.60 PK			1.00 H	147	71.42	36.18
5	*5260.00	96.23 AV			1.00 H	147	60.05	36.18
6	#7013.30	51.24 PK	68.30	-17.06	1.09 H	231	9.95	41.29
7	#10520.00	55.10 PK	68.30	-13.20	1.03 H	147	8.91	46.19

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	#3506.60	44.92 PK	68.30	-23.38	1.57 V	143	12.59	32.33
2	4708.00	55.29 PK	74.00	-18.71	1.39 V	257	20.02	35.27
3	4708.00	42.89 AV	54.00	-11.11	1.39 V	257	7.62	35.27
4	*5260.00	118.02 PK			1.39 V	251	81.84	36.18
5	*5260.00	107.55 AV			1.39 V	251	71.37	36.18
6	#7013.30	51.66 PK	68.30	-16.64	1.08 V	0	10.37	41.29
7	#10520.00	55.29 PK	68.30	-13.01	1.44 V	157	9.10	46.19

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Wen Yu

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	#3533.30	44.60 PK	68.30	-23.70	1.10 H	159	12.20	32.40
2	*5300.00	107.80 PK			1.00 H	144	71.56	36.24
3	*5300.00	96.31 AV			1.00 H	144	60.07	36.24
4	#7066.60	51.20 PK	68.30	-17.10	1.14 H	239	9.77	41.43
5	10600.00	54.40 PK	74.00	-19.60	1.02 H	131	8.03	46.37
6	10600.00	41.10 AV	54.00	-12.90	1.02 H	131	-5.27	46.37

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	#3533.30	44.73 PK	68.30	-23.57	1.55 V	163	12.33	32.40
2	*5300.00	118.19 PK			1.41 V	297	81.95	36.24
3	*5300.00	107.61 AV			1.41 V	297	71.37	36.24
4	#7066.60	51.64 PK	68.30	-16.66	1.58 V	250	10.21	41.43
5	10600.00	54.84 PK	74.00	-19.16	1.15 V	16	8.47	46.37
6	10600.00	41.31 AV	54.00	-12.69	1.15 V	16	-5.06	46.37

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Wen Yu

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	#3546.60	44.23 PK	68.30	-24.07	1.09 H	162	11.80	32.43
2	*5320.00	107.34 PK			1.00 H	149	71.07	36.27
3	*5320.00	96.12 AV			1.00 H	149	59.85	36.27
4	5350.00	72.66 PK	74.00	-1.34	1.00 H	144	36.34	36.32
5	5350.00	51.27 AV	54.00	-2.73	1.00 H	144	14.95	36.32
6	#7093.30	51.93 PK	68.30	-16.37	1.12 H	231	10.43	41.50
7	10640.00	54.83 PK	74.00	-19.17	1.14 H	137	8.37	46.46
8	10640.00	41.60 AV	54.00	-12.40	1.14 H	137	-4.86	46.46
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	#3546.60	44.63 PK	68.30	-23.67	1.56 V	142	12.20	32.43
2	*5320.00	118.18 PK			1.00 V	284	81.91	36.27
3	*5320.00	107.70 AV			1.00 V	284	71.43	36.27
4	5350.00	69.37 PK	74.00	-4.63	1.00 V	285	33.05	36.32
5	5350.00	51.89 AV	54.00	-2.11	1.00 V	285	15.57	36.32
6	#7093.30	52.16 PK	68.30	-16.14	1.00 V	0	10.66	41.50
7	10640.00	55.06 PK	74.00	-18.94	1.36 V	356	8.60	46.46
8	10640.00	41.80 AV	54.00	-12.20	1.36 V	356	-4.66	46.46

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Wen Yu

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	3666.60	44.12 PK	74.00	-29.88	1.44 H	213	11.37	32.75
2	3666.60	30.14 AV	54.00	-23.86	1.44 H	213	-2.61	32.75
3	5460.00	55.41 PK	74.00	-18.59	1.00 H	29	18.91	36.50
4	5460.00	44.10 AV	54.00	-9.90	1.00 H	29	7.60	36.50
5	#5470.00	62.13 PK	68.30	-6.17	1.00 H	24	25.62	36.51
6	*5500.00	103.24 PK			1.00 H	39	66.68	36.56
7	*5500.00	93.76 AV			1.00 H	39	57.20	36.56
8	7333.30	53.10 PK	74.00	-20.90	1.00 H	97	11.00	42.10
9	7333.30	40.20 AV	54.00	-13.80	1.00 H	97	-1.90	42.10
10	11000.00	55.74 PK	74.00	-18.26	1.02 H	31	8.49	47.25
11	11000.00	42.13 AV	54.00	-11.87	1.02 H	31	-5.12	47.25

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	3666.60	44.51 PK	74.00	-29.49	1.47 V	159	11.76	32.75
2	3666.60	30.77 AV	54.00	-23.23	1.47 V	159	-1.98	32.75
3	5460.00	59.24 PK	74.00	-14.76	1.04 V	298	22.74	36.50
4	5460.00	45.30 AV	54.00	-8.70	1.04 V	298	8.80	36.50
5	#5470.00	67.51 PK	68.30	-0.79	1.04 V	288	31.00	36.51
6	*5500.00	114.59 PK			1.05 V	298	78.03	36.56
7	*5500.00	104.19 AV			1.05 V	298	67.63	36.56
8	7333.30	53.08 PK	74.00	-20.92	1.00 V	0	10.98	42.10
9	7333.30	39.69 AV	54.00	-14.31	1.00 V	0	-2.41	42.10
10	11000.00	56.19 PK	74.00	-17.81	2.02 V	7	8.94	47.25
11	11000.00	42.44 AV	54.00	-11.56	2.02 V	7	-4.81	47.25

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Wen Yu

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	3733.30	44.24 PK	74.00	-29.76	1.44 H	219	11.32	32.92
2	3733.30	30.40 AV	54.00	-23.60	1.44 H	219	-2.52	32.92
3	*5600.00	107.90 PK			1.00 H	24	71.08	36.82
4	*5600.00	97.60 AV			1.00 H	24	60.78	36.82
5	7466.60	53.10 PK	74.00	-20.90	1.00 H	84	10.66	42.44
6	7466.60	44.73 AV	54.00	-9.27	1.00 H	84	2.29	42.44
7	11200.00	57.84 PK	74.00	-16.16	1.02 H	73	10.68	47.16
8	11200.00	44.10 AV	54.00	-9.90	1.02 H	73	-3.06	47.16
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	3733.30	44.86 PK	74.00	-29.14	1.46 V	168	11.94	32.92
2	3733.30	30.83 AV	54.00	-23.17	1.46 V	168	-2.09	32.92
3	*5600.00	118.53 PK			1.01 V	268	81.71	36.82
4	*5600.00	108.01 AV			1.01 V	268	71.19	36.82
5	7466.60	53.46 PK	74.00	-20.54	1.25 V	264	11.02	42.44
6	7466.60	45.08 AV	54.00	-8.92	1.25 V	264	2.64	42.44
7	11200.00	58.09 PK	74.00	-15.91	2.11 V	0	10.93	47.16
8	11200.00	44.25 AV	54.00	-9.75	2.11 V	0	-2.91	47.16

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Wen Yu

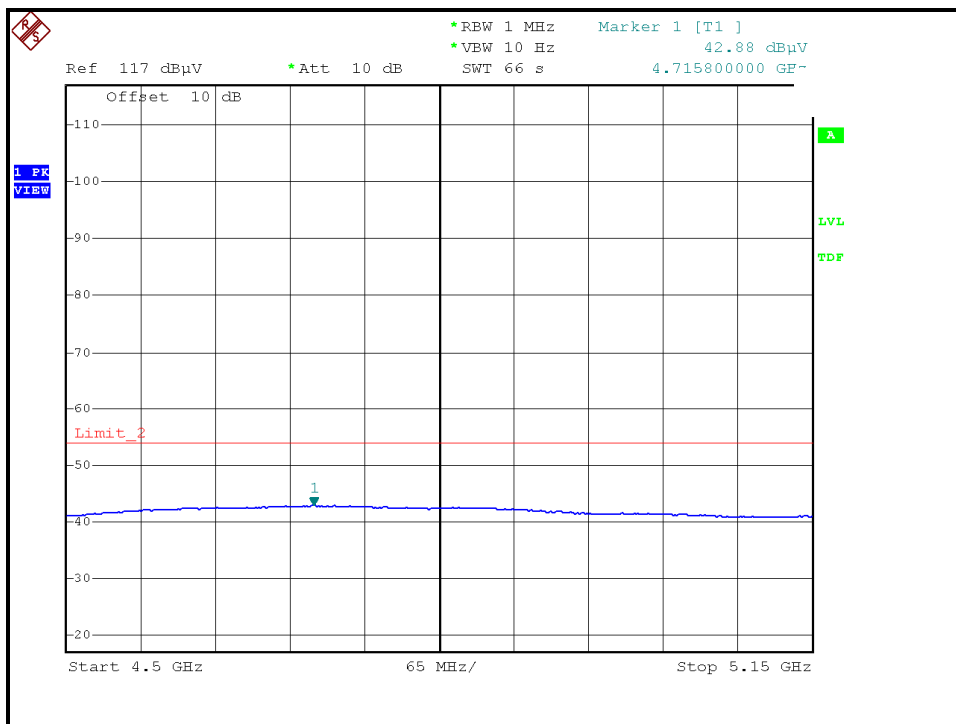
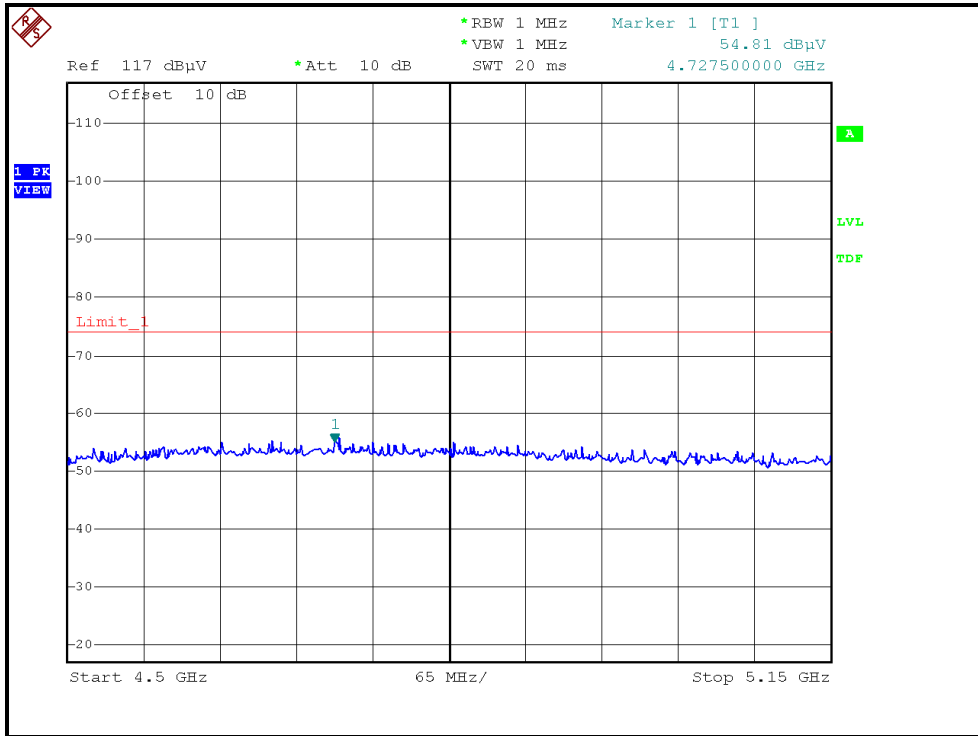
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	44.41 PK	74.00	-29.59	1.41 H	220	11.31	33.10
2	3800.00	30.24 AV	54.00	-23.76	1.41 H	220	-2.86	33.10
3	*5700.00	103.46 PK			1.00 H	32	66.37	37.09
4	*5700.00	93.27 AV			1.00 H	32	56.18	37.09
5	#5725.00	62.40 PK	68.30	-5.90	1.00 H	31	25.25	37.15
6	7600.00	53.20 PK	74.00	-20.80	1.00 H	73	10.53	42.67
7	7600.00	45.78 AV	54.00	-8.22	1.00 H	73	3.11	42.67
8	11400.00	58.24 PK	74.00	-15.76	1.04 H	84	11.17	47.07
9	11400.00	45.13 AV	54.00	-8.87	1.04 H	84	-1.94	47.07
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	3800.00	44.92 PK	74.00	-29.08	1.44 V	159	11.82	33.10
2	3800.00	30.75 AV	54.00	-23.25	1.44 V	159	-2.35	33.10
3	*5700.00	114.88 PK			1.00 V	281	77.79	37.09
4	*5700.00	104.86 AV			1.00 V	281	67.77	37.09
5	#5725.00	67.55 PK	68.30	-0.75	1.00 V	264	30.40	37.15
6	7600.00	53.97 PK	74.00	-20.03	1.00 V	209	11.30	42.67
7	7600.00	46.31 AV	54.00	-7.69	1.00 V	209	3.64	42.67
8	11400.00	58.39 PK	74.00	-15.61	2.12 V	2	11.32	47.07
9	11400.00	45.29 AV	54.00	-8.71	2.12 V	2	-1.78	47.07

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#“: The radiated frequency is out the restricted band.



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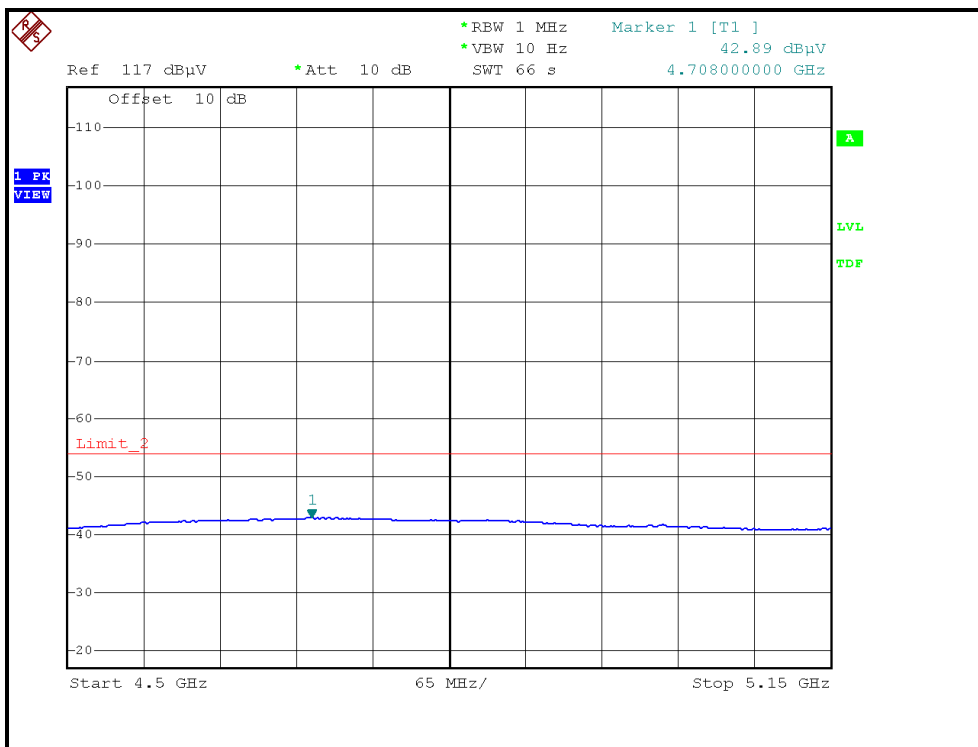
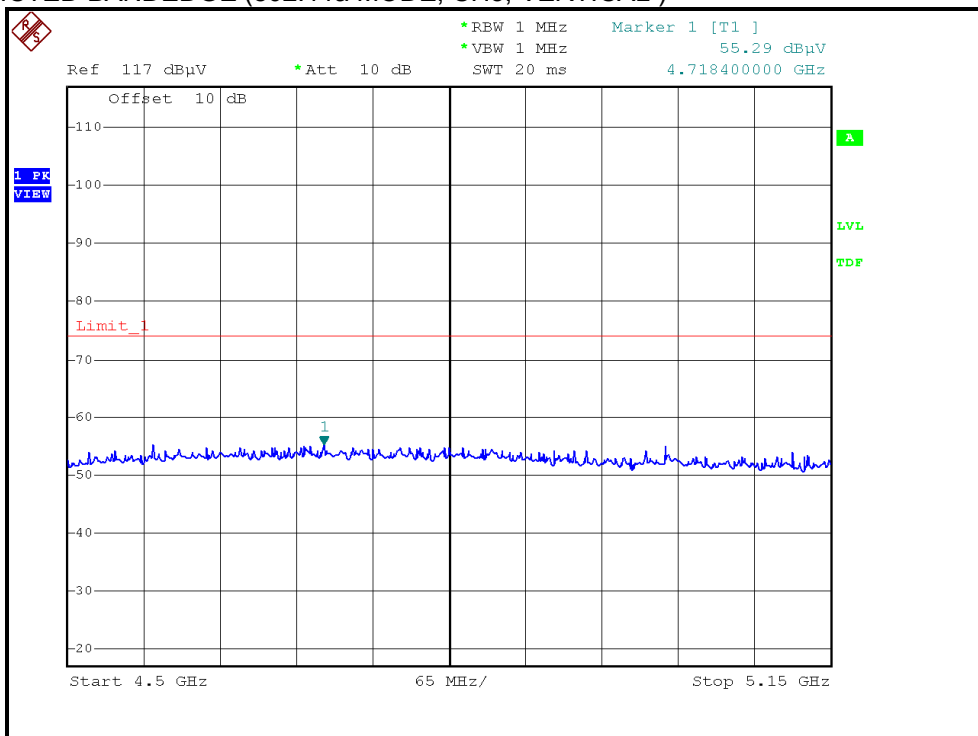
RESTRICTED BANDEDGE (802.11a MODE, CH5, HORIZONTAL)





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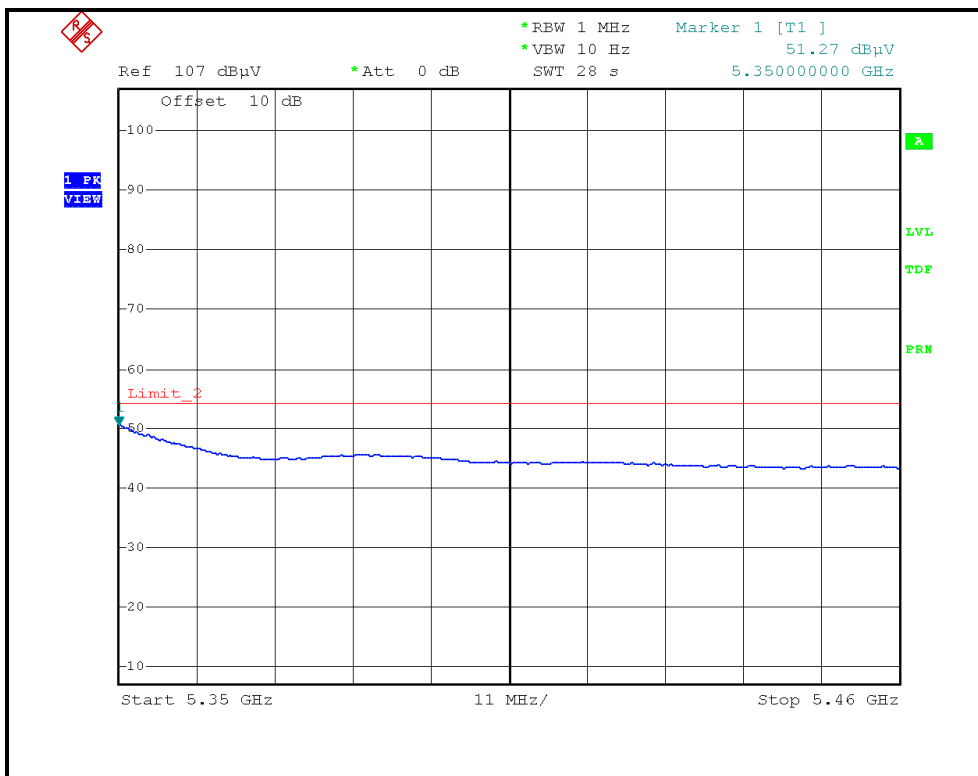
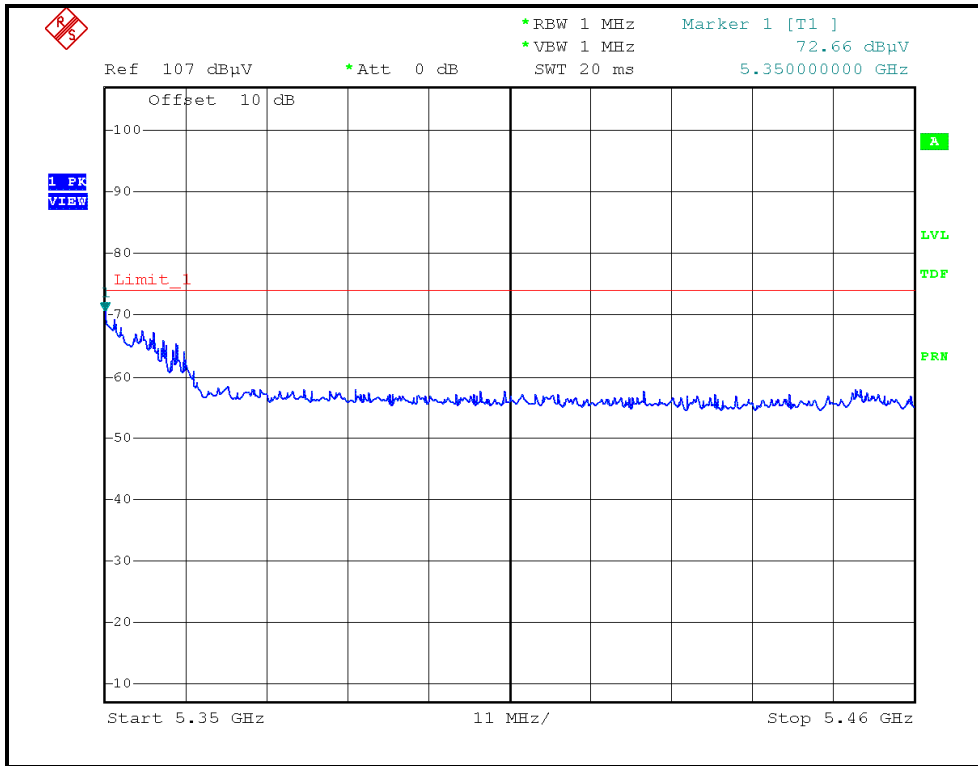
RESTRICTED BANDEDGE (802.11a MODE, CH5, VERTICAL)





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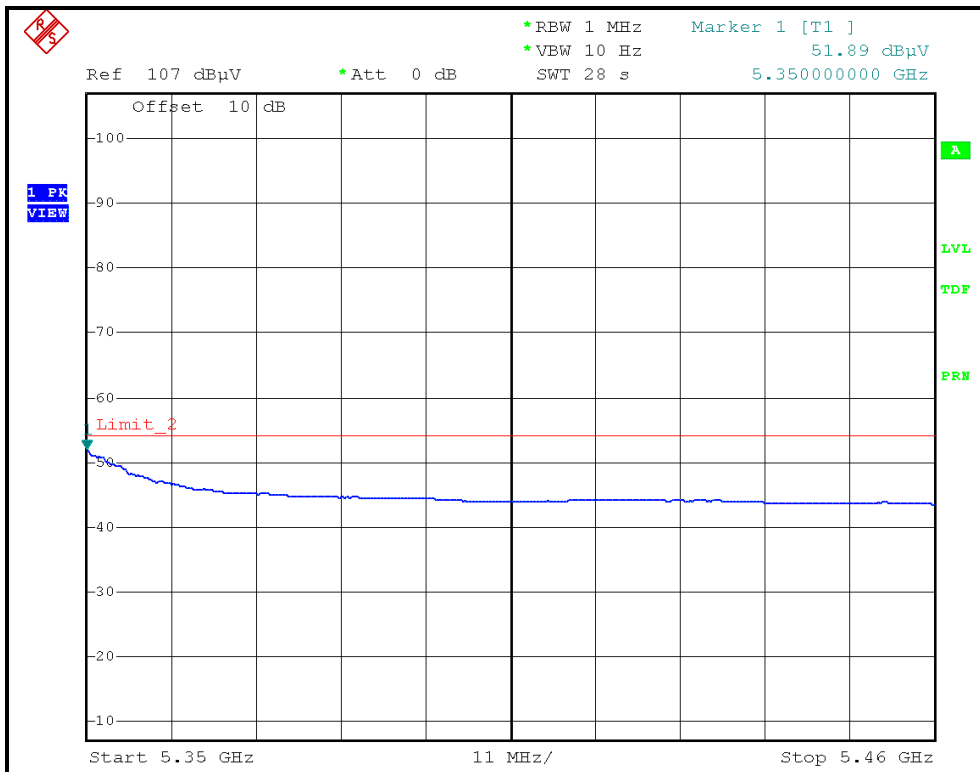
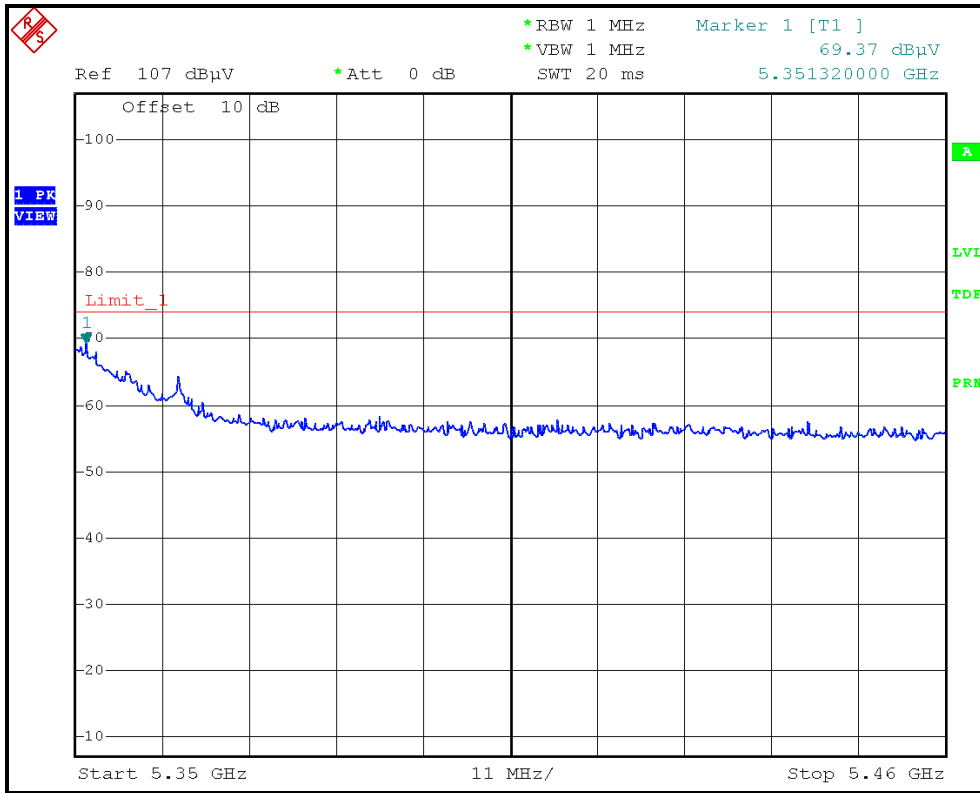
RESTRICTED BANDEDGE (802.11a MODE, CH8, HORIZONTAL)





A D T

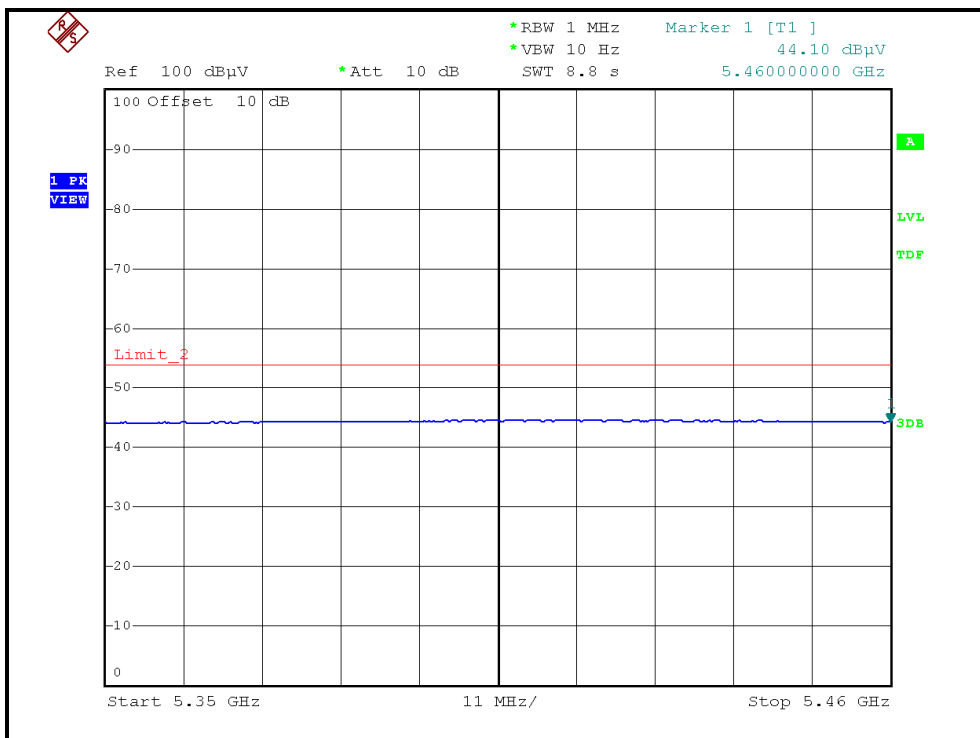
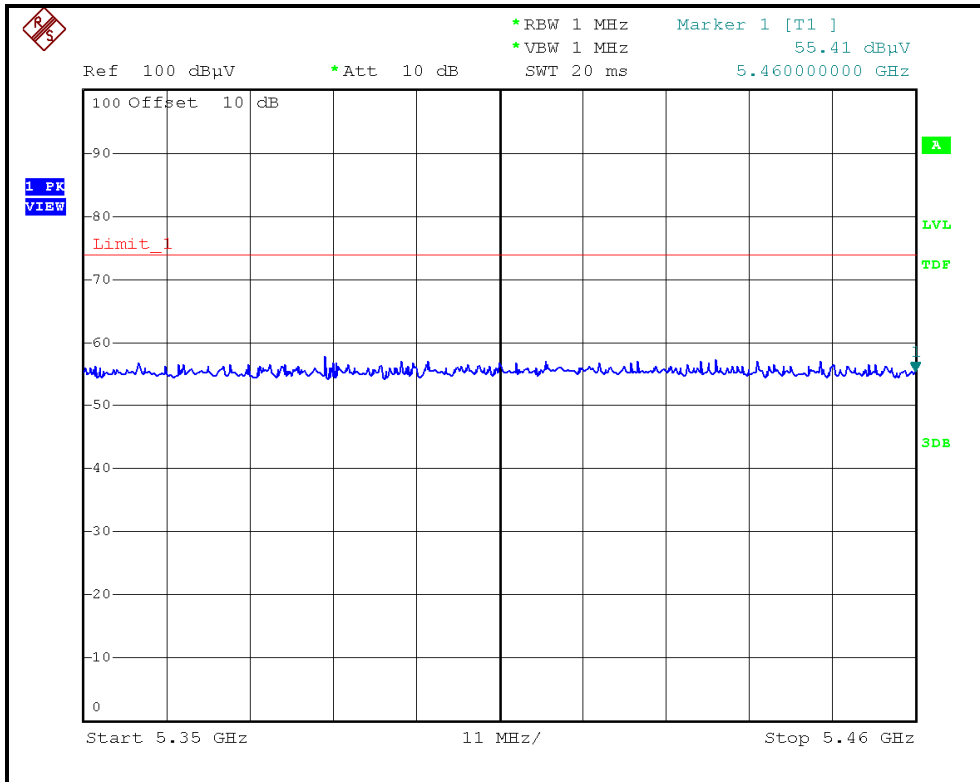
RESTRICTED BANDEDGE (802.11a MODE, CH8, VERTICAL)





A D T

RESTRICTED BANDEDGE (802.11a MODE, CH9, HORIZONTAL)





A D T

RESTRICTED BANDEDGE (802.11a MODE, CH9, VERTICAL)

