7.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.407 (b),

(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.

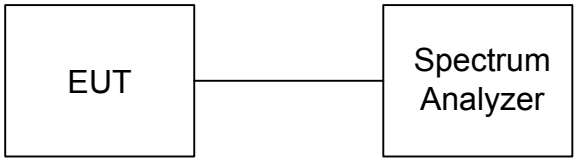
The provisions of § 15.205 apply to intentional radiators operating under this section.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSEK 30	835253/002	SEP. 29, 2012

Remark: *Each piece of equipment is scheduled for calibration once a year*

TEST SETUP



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation of measurements on the radiated emissions site.

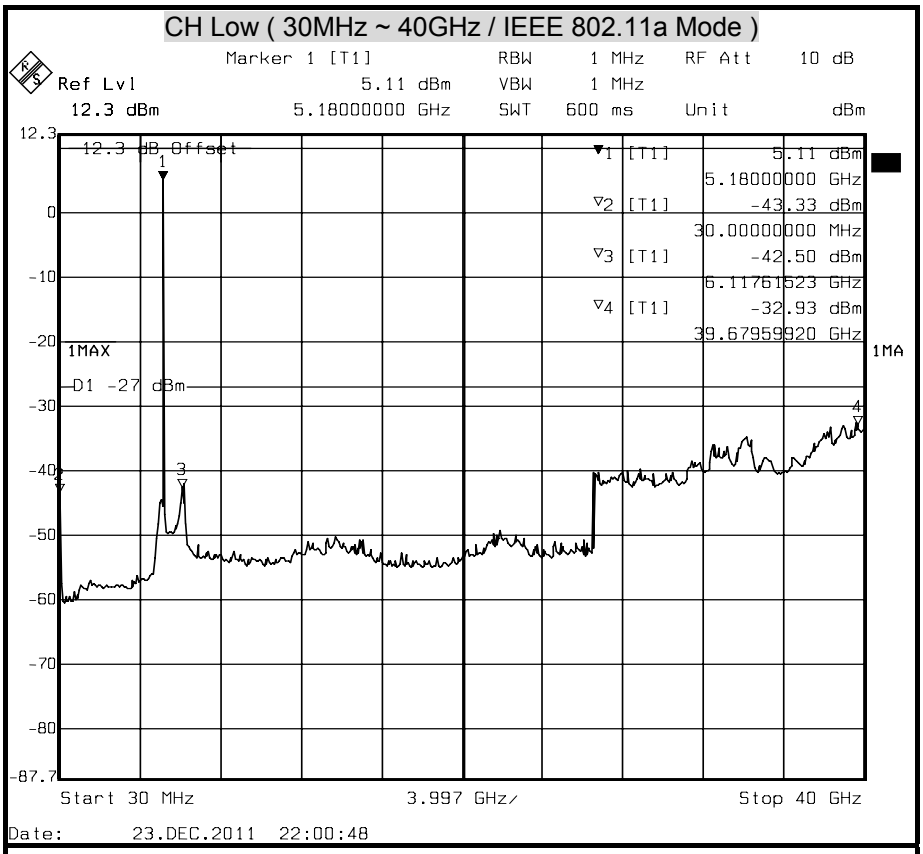
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 1MHz. The video bandwidth is set to 1MHz. Peak detection measurements are compared to the average EIRP limit, adjusted for the maximum antenna gain. If necessary, additional average detection measurements are made.

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.

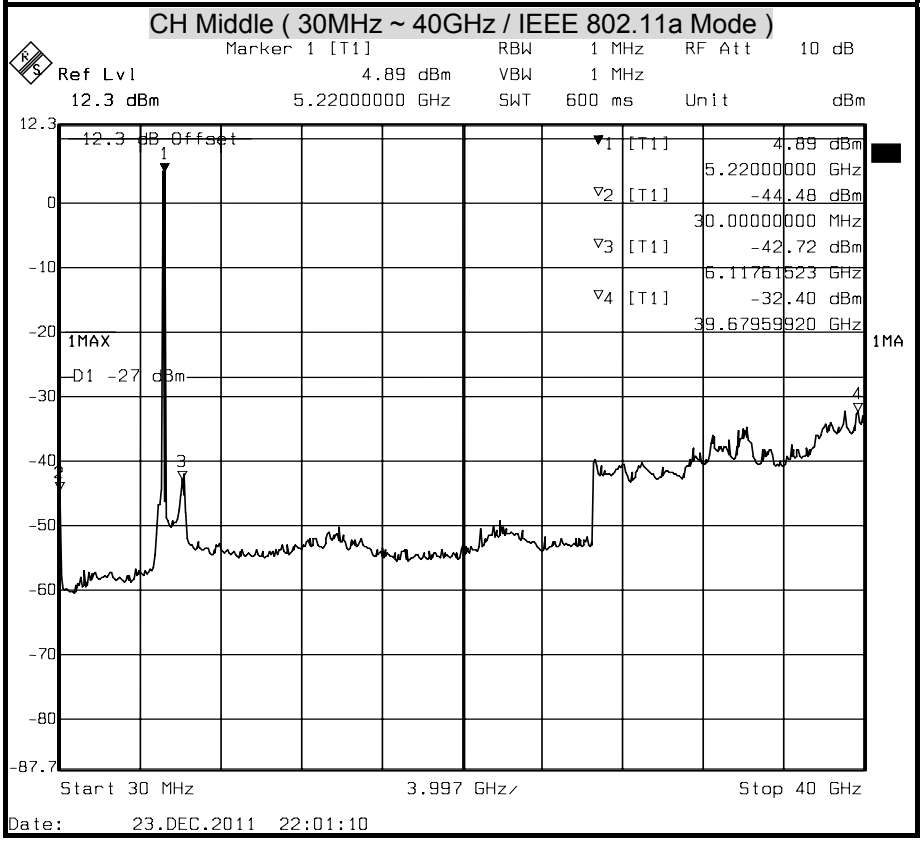
TEST RESULTS

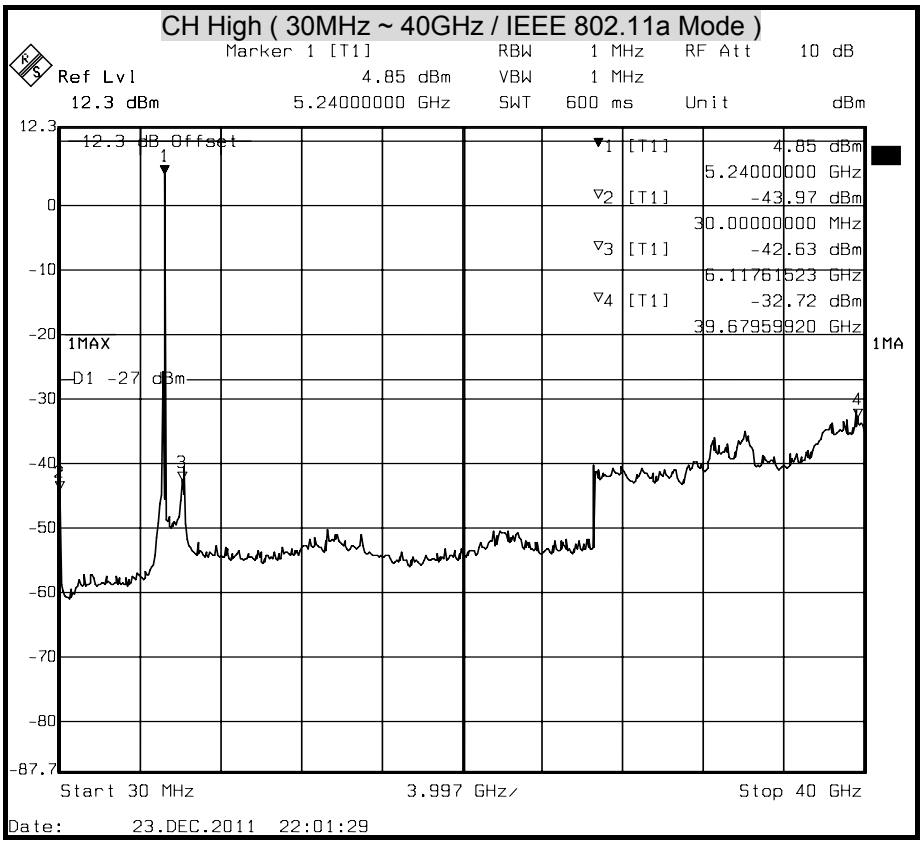
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

CH Low (30MHz ~ 40GHz / IEEE 802.11a Mode)

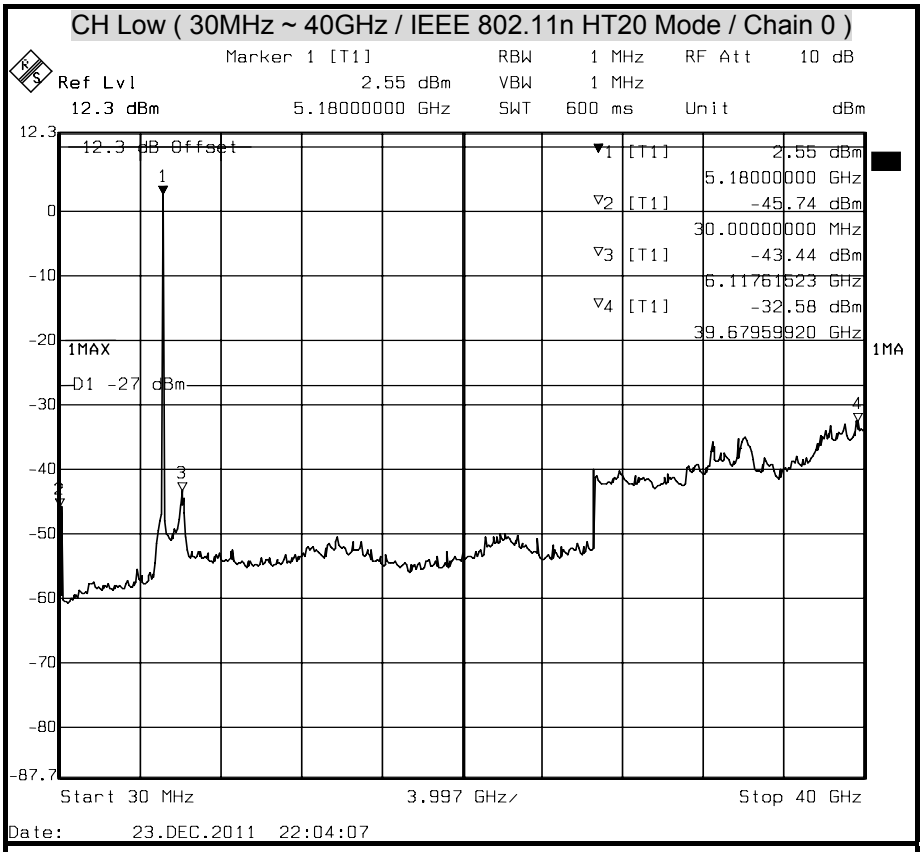


CH Middle (30MHz ~ 40GHz / IEEE 802.11a Mode)

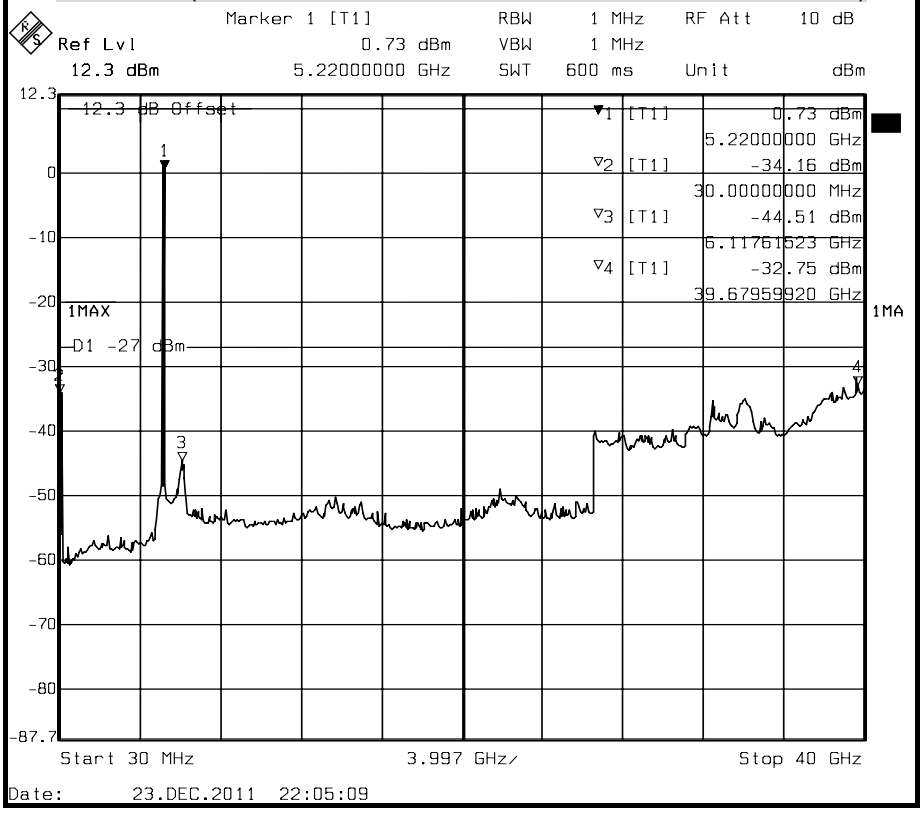


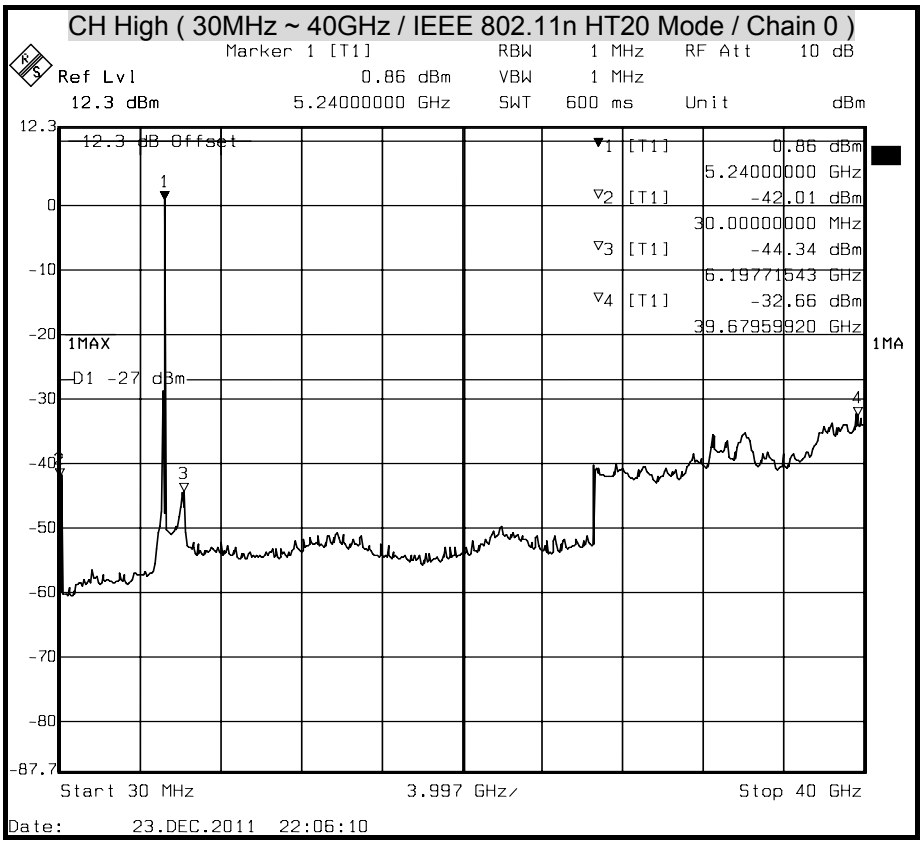


CH Low (30MHz ~ 40GHz / IEEE 802.11n HT20 Mode / Chain 0)

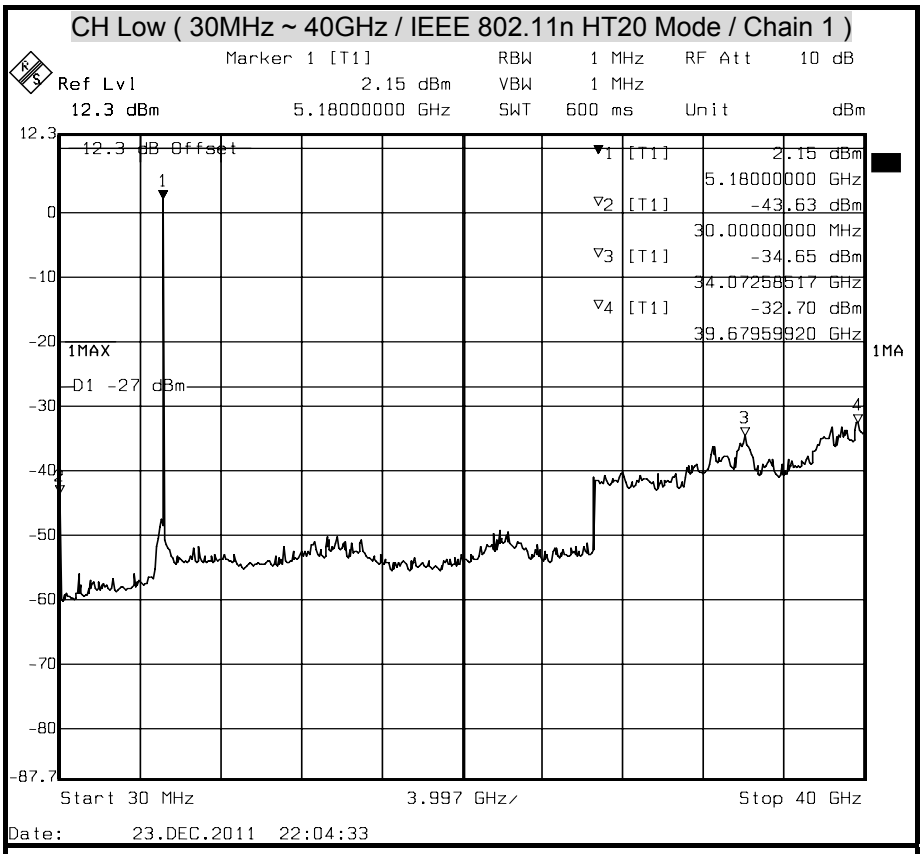


CH Middle (30MHz ~ 40GHz / IEEE 802.11n HT20 Mode / Chain 0)

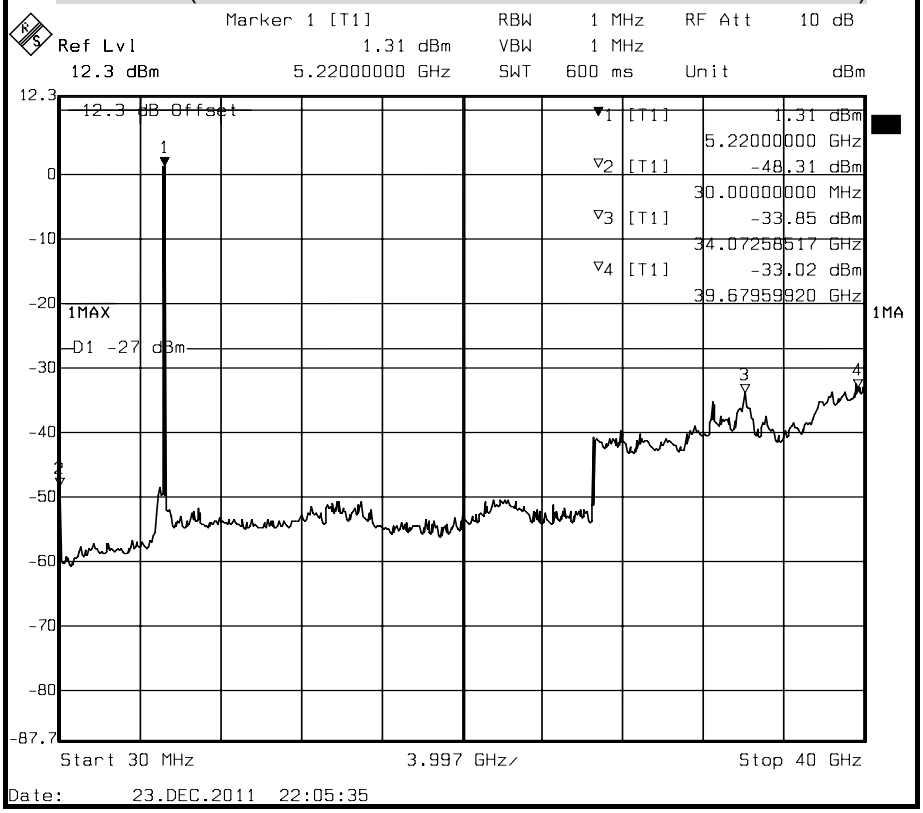




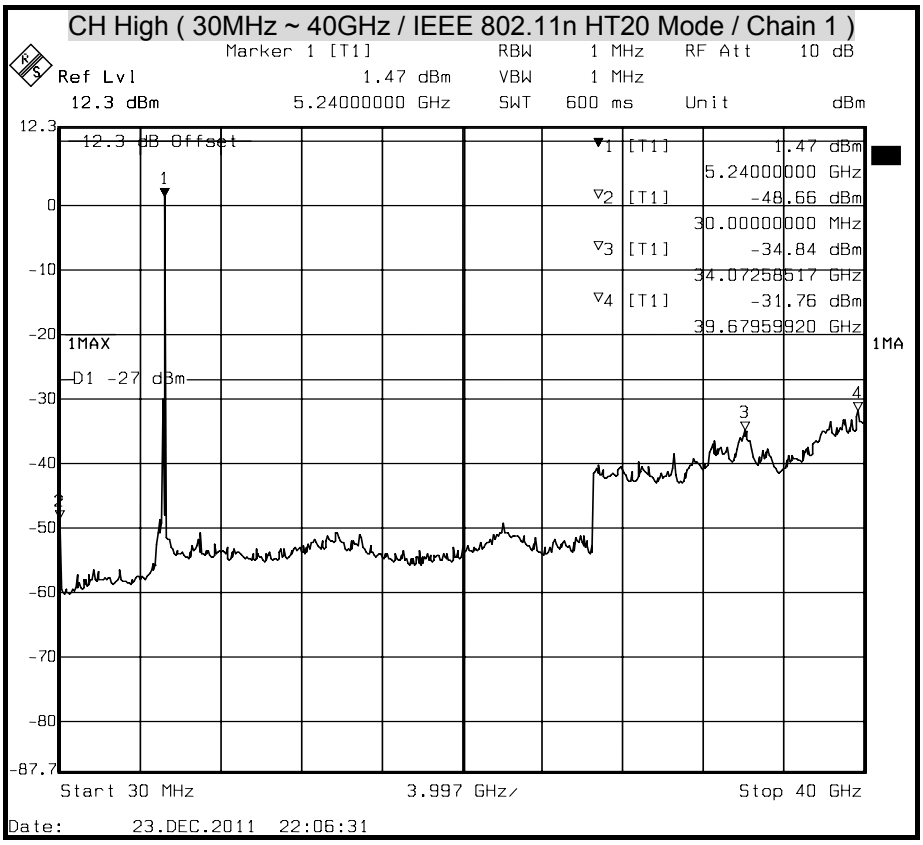
CH Low (30MHz ~ 40GHz / IEEE 802.11n HT20 Mode / Chain 1)



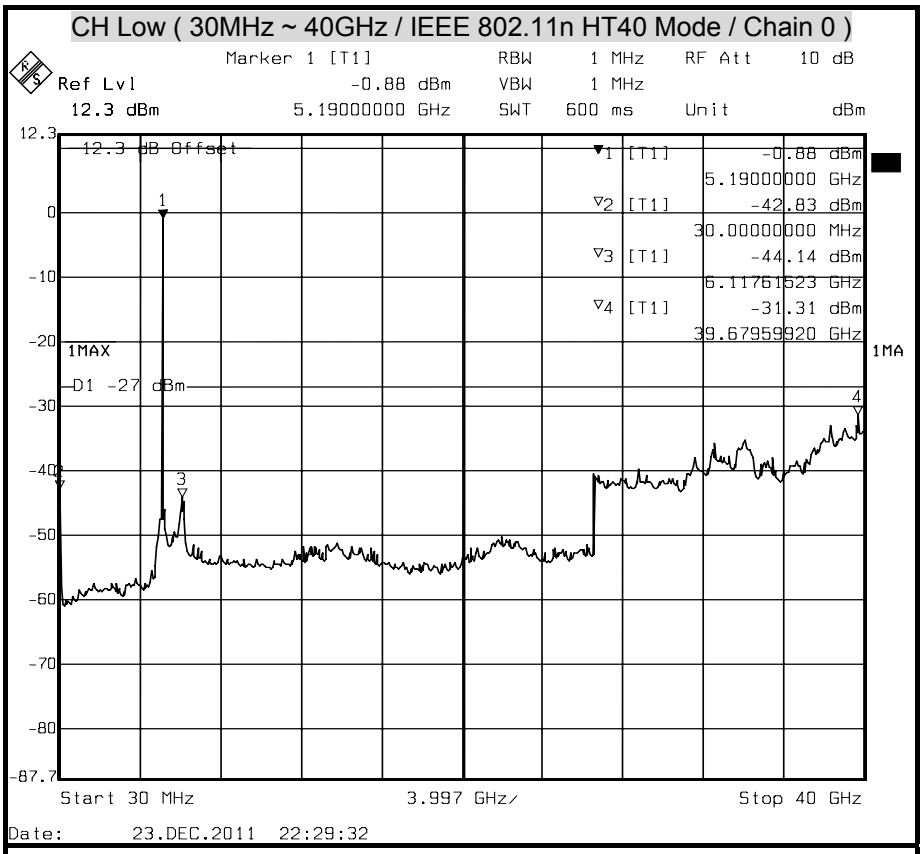
CH Middle (30MHz ~ 40GHz / IEEE 802.11n HT20 Mode / Chain 1)



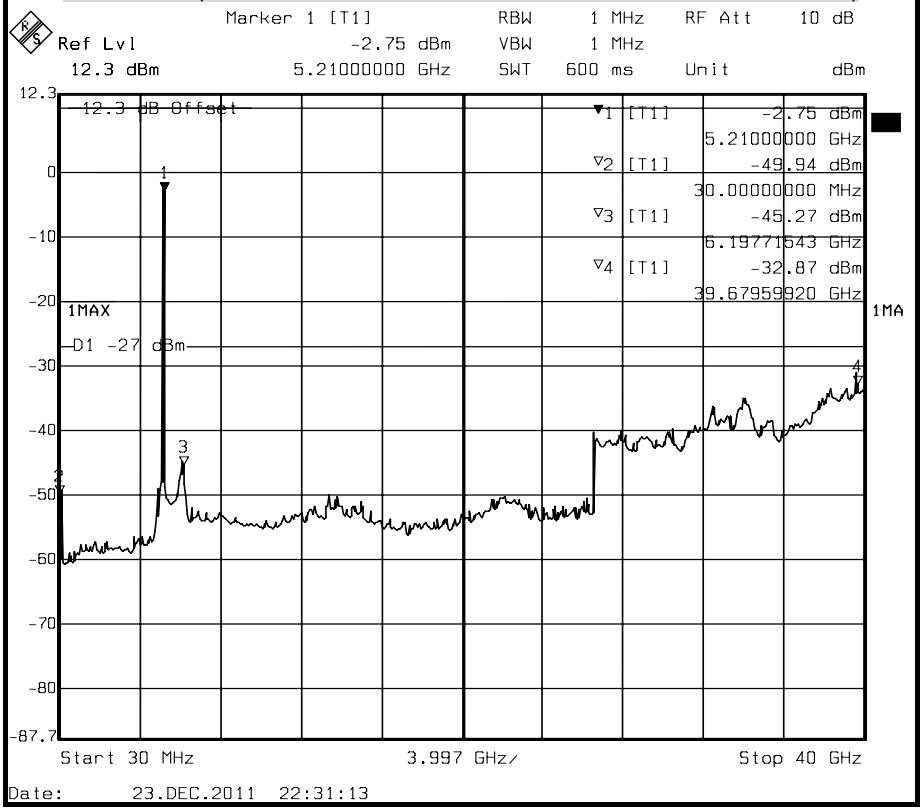
CH High (30MHz ~ 40GHz / IEEE 802.11n HT20 Mode / Chain 1)



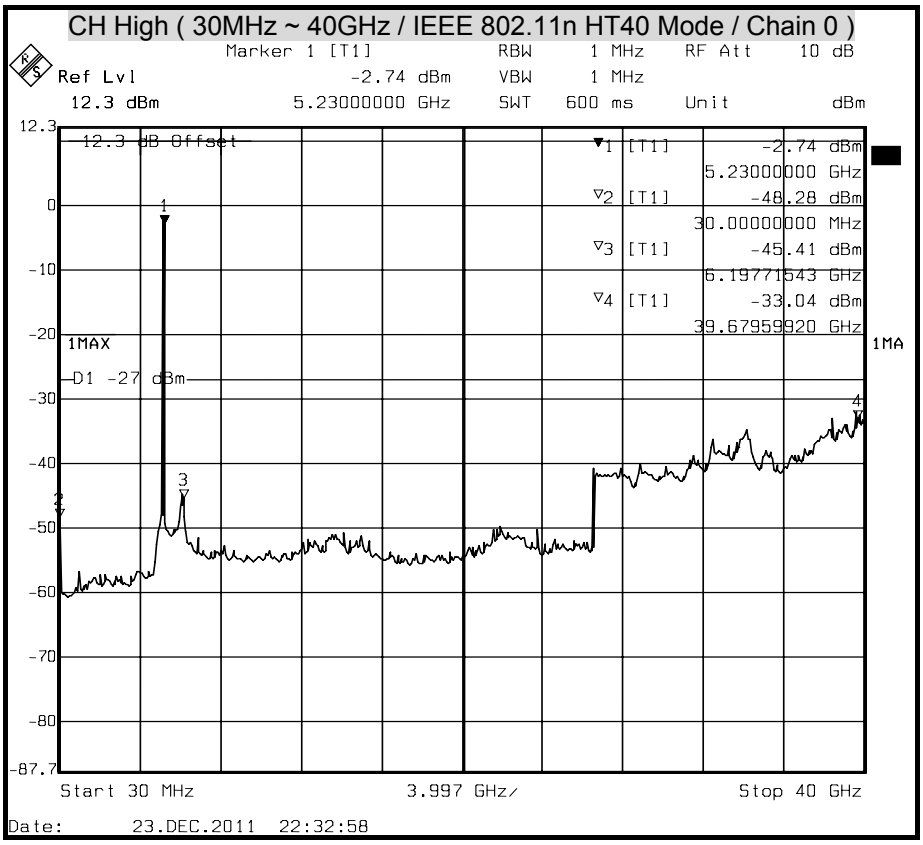
CH Low (30MHz ~ 40GHz / IEEE 802.11n HT40 Mode / Chain 0)



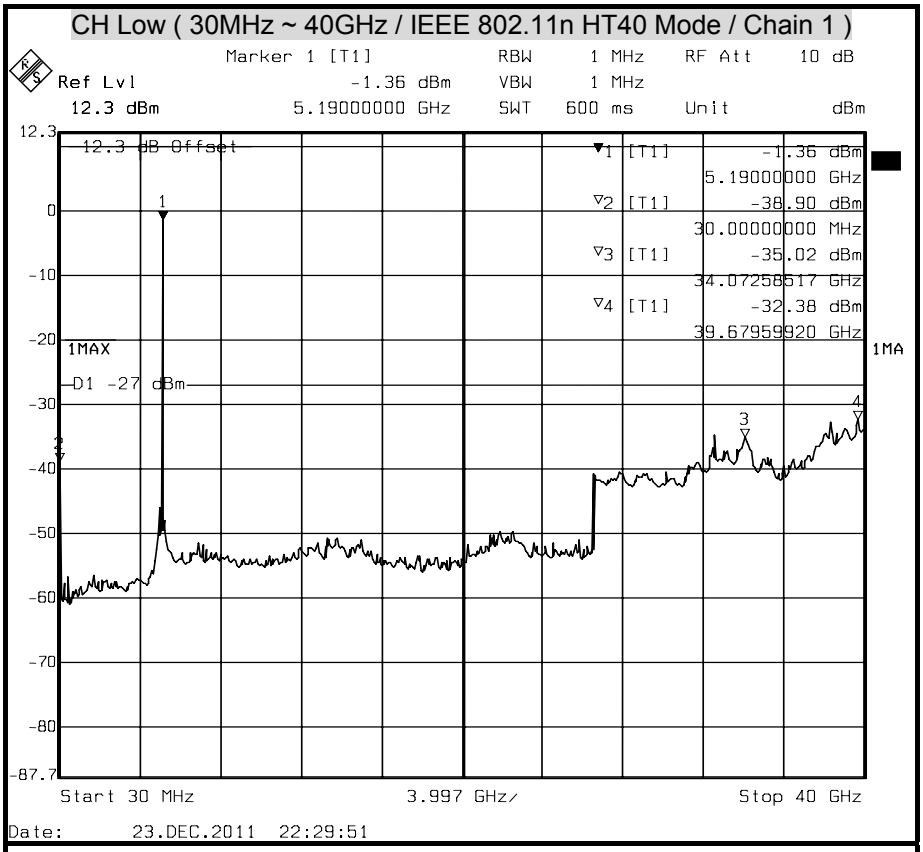
CH Middle (30MHz ~ 40GHz / IEEE 802.11n HT40 Mode Chain 0)



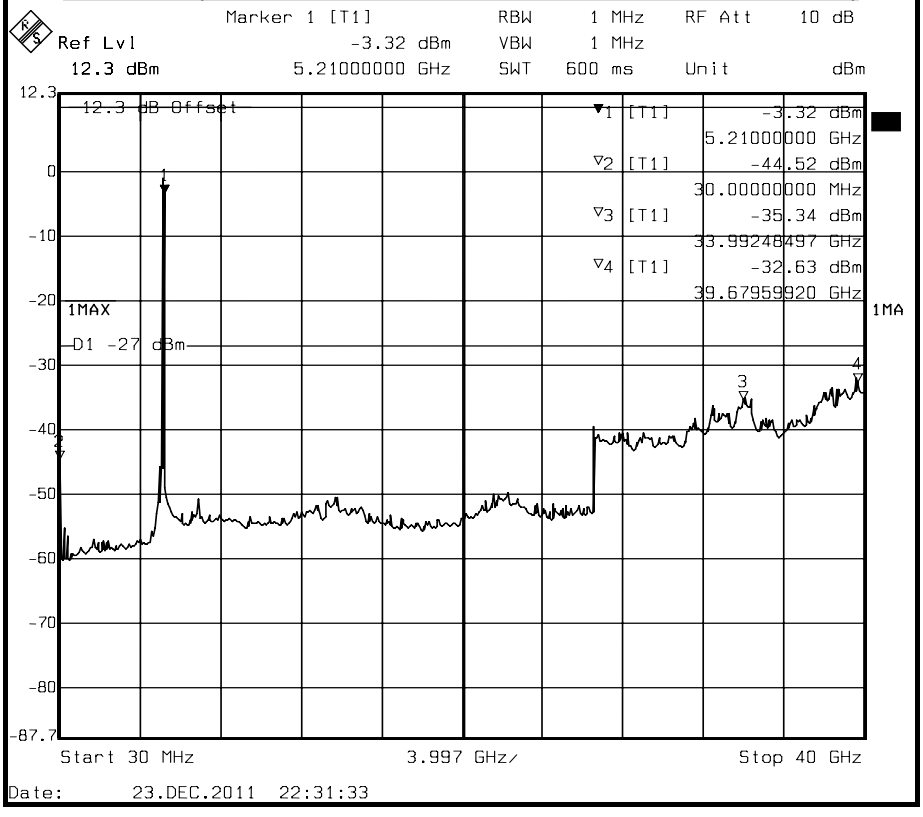
CH High (30MHz ~ 40GHz / IEEE 802.11n HT40 Mode / Chain 0)



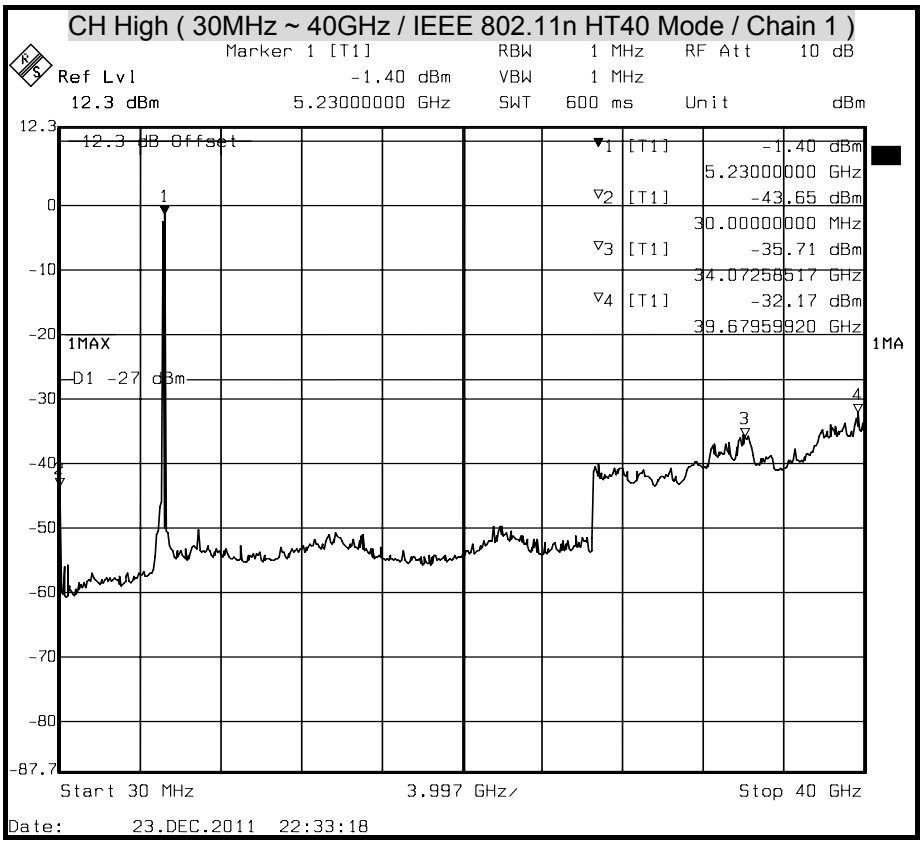
CH Low (30MHz ~ 40GHz / IEEE 802.11n HT40 Mode / Chain 1)



CH Middle (30MHz ~ 40GHz / IEEE 802.11n HT40 Mode Chain 1)



CH High (30MHz ~ 40GHz / IEEE 802.11n HT40 Mode / Chain 1)



7.6 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	([2])
13.36 - 13.41			

Remark:
1. [1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2. [2] Above 38.6

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (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

Remark: ***Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

he following test equipments are utilized in making the measurements contained in this report.

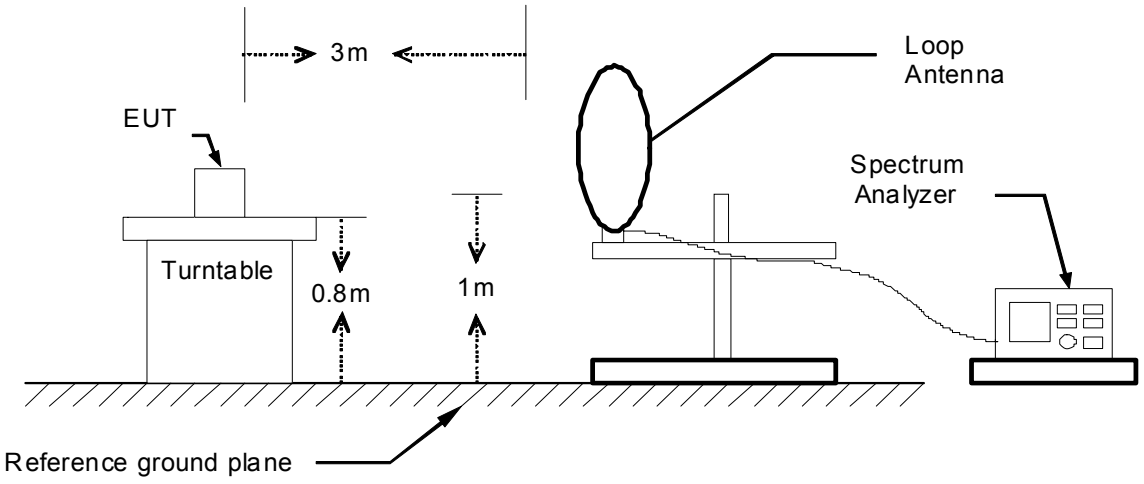
Open Area Test Site # 6				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
TYPE N COAXIAL CABLE	SUHNER	CHA9513	6	NOV. 17, 2012
BI-LOG Antenna	Sunol	JB1	A070506-2	OCT. 03, 2012
LOOP ANTENNA	EMCO	6502	8905-2356	JUN. 10, 2012
Pre-Amplifier	HP	8447F	2944A03817	NOV. 23, 2012
EMI Receiver	R&S	ESVS10	833206/012	MAY 10, 2012
RF Cable	SUHNER	SUCOFLEX104PEA	20520/4PEA	NOV. 10, 2012
Horn Antenna	Com-Power	AH-118	071032	DEC. 27, 2012
Spectrum Analyzer	R&S	FSEK 30	835253/002	SEP. 29, 2012
Pre-Amplifier	MITEQ	AFS44-00108650-42-10P-44	1205908	NOV. 23, 2012
3116 Double Ridge Antenna (40G)	ETS-LINDGREN	EMCO-003	00078	NOV. 14, 2012
Turn Table	Yo Chen	001	----------	N.C.R.
Antenna Tower	AR	TP1000A	309874	N.C.R.
Controller	CT	SC101	----------	N.C.R.
RF Swicth	E-INSTRUMENT TELH LTD	ERS-180A	EC1204141	N.C.R
Power Meter	Anritsu	ML2487A	6K00003888	MAY 30, 2012
Power Sensor	Anritsu	MA2491A	33265	MAY 30.2012
Temp./Humidity Chamber	K.SON	THS-M1	242	AUG. 09, 2012
Signal Generator	HP	8673C	2938A00663	SEP. 12, 2012
DC Power Source	LOKO	DSP-5050	L1507009282	N.C.R

Remark: *1. Each piece of equipment is scheduled for calibration once a year.*
2. N.C.R = No Calibration Request.

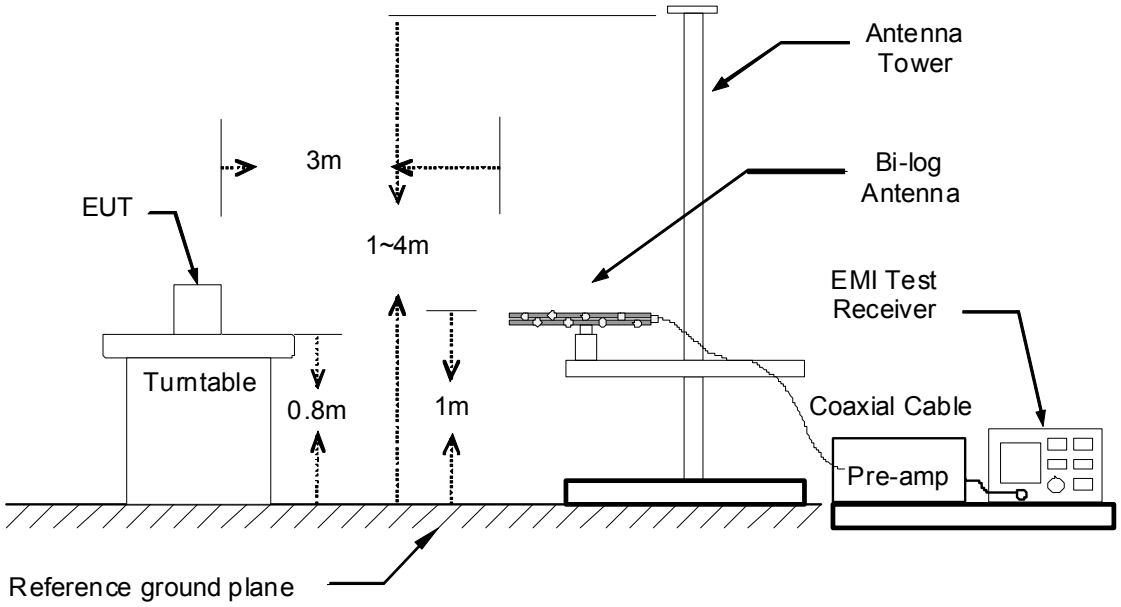
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

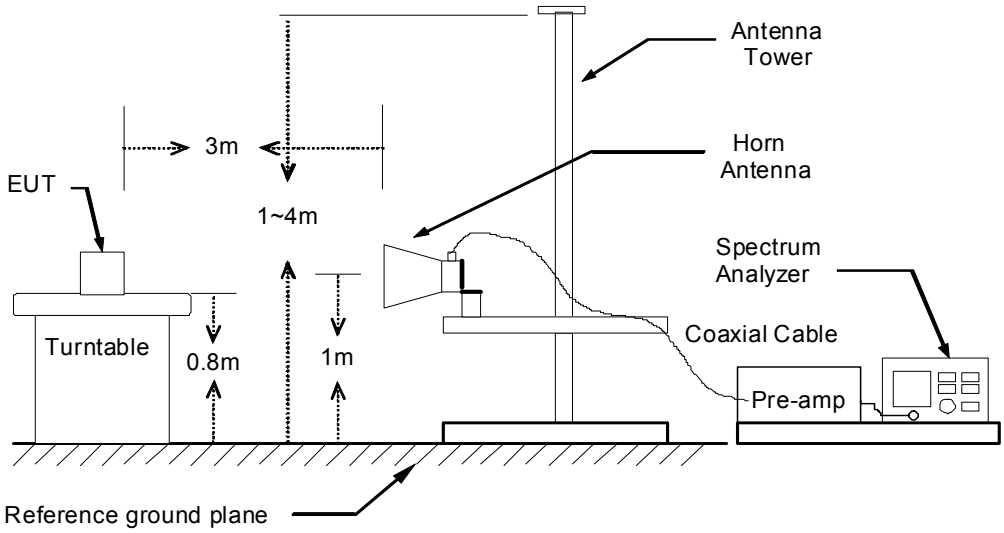
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

1. 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.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. 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 polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark：

1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and 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.*

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	Smart 300N Broadband Router	Test By	Taiyu Cyu
Model	BR485d	Test Date	2011/11/23
Test Mode	TX Mode	TEMP & Humidity	27°C, 51%

Horizontal

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Level	Limits	Margin	Detector Mode
(MHz)	(dBμV)	(dB/M)	(dB)	(dBμV/M)	(dBμV/M)	(dB)	PK/QP
59.25	6.29	7.75	2.39	16.43	40.00	-23.57	QP
156.00	9.30	12.44	4.04	25.78	43.50	-17.72	QP
168.35	8.40	11.93	4.23	24.59	43.50	-18.91	QP
250.00	16.96	12.68	5.20	34.84	46.00	-11.16	QP
312.50	11.20	14.58	6.13	31.91	46.00	-14.09	QP
375.00	6.20	16.15	6.76	29.11	46.00	-16.89	QP
468.00	13.60	17.76	7.82	39.18	46.00	-6.82	QP
623.98	6.30	19.98	9.31	35.59	46.00	-10.41	QP
780.00	5.30	22.00	10.80	38.10	46.00	-7.90	QP
N/A	-----	-----	-----	-----	-----	-----	-----

Vertical

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Level	Limits	Margin	Detector Mode
(MHz)	(dBμV)	(dB/M)	(dB)	(dBμV/M)	(dBμV/M)	(dB)	PK/QP
55.28	23.64	8.21	2.35	34.20	40.00	-5.80	QP
70.85	20.38	8.49	2.61	31.48	40.00	-8.52	QP
125.00	15.10	14.05	3.50	32.65	43.50	-10.86	QP
156.00	10.17	12.44	4.04	26.65	43.50	-16.85	QP
169.95	11.17	11.93	4.24	27.35	43.50	-16.15	QP
250.00	13.30	12.68	5.20	31.18	46.00	-14.82	QP
312.50	16.27	14.58	6.13	36.98	46.00	-9.02	QP
375.00	6.83	16.15	6.76	29.74	46.00	-16.26	QP
468.00	6.20	17.76	7.82	31.78	46.00	-14.22	QP
623.98	8.50	19.98	9.31	37.79	46.00	-8.21	QP
780.00	5.20	22.00	10.80	38.00	46.00	-8.00	QP
N/A	-----	-----	-----	-----	-----	-----	-----

REMARK: Emission level (dBμV/m) =Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dBμV).

Above 1 GHz

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11a TX / CH Low	TEMP & Humidity	18.3°C, 61%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	58.49	25.65	1.83	39.58	0.74	47.13	74.00	-26.87	P
1250.00	52.60	25.65	1.83	39.58	0.74	41.24	54.00	-12.76	A
10360.00	54.29	39.24	6.04	37.28	0.54	62.83	74.00	-11.17	P
10360.00	40.38	39.24	6.04	37.28	0.54	48.92	54.00	-5.08	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	56.51	25.65	1.83	39.58	0.74	45.15	74.00	-28.85	P
1250.00	50.88	25.65	1.83	39.58	0.74	39.52	54.00	-14.48	A
10360.00	53.67	39.24	6.04	37.28	0.54	62.21	74.00	-11.79	P
10360.00	39.24	39.24	6.04	37.28	0.54	47.78	54.00	-6.22	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11a TX / CH Middle	TEMP & Humidity	18.3°C, 61%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1249.99	57.20	25.65	1.83	39.58	0.74	45.84	74.00	-28.16	P
1249.99	52.19	25.65	1.83	39.58	0.74	40.83	54.00	-13.17	A
10440.00	52.38	39.28	6.10	37.17	0.58	61.16	74.00	-12.84	P
10440.00	40.49	39.28	6.10	37.17	0.58	49.27	54.00	-4.73	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	54.82	25.65	1.83	39.58	0.74	43.46	74.00	-30.54	P
1250.00	49.66	25.65	1.83	39.58	0.74	38.30	54.00	-15.70	A
10440.03	53.94	39.28	6.10	37.17	0.58	62.72	74.00	-11.28	P
10440.03	41.19	39.28	6.10	37.17	0.58	49.97	54.00	-4.03	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11a TX / CH high	TEMP & Humidity	18.3°C, 61%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1249.98	57.21	25.65	1.83	39.58	0.74	45.85	74.00	-28.15	P
1249.98	52.60	25.65	1.83	39.58	0.74	41.24	54.00	-12.76	A
10480.00	52.41	39.29	6.13	37.12	0.59	61.30	74.00	-12.70	P
10480.00	40.39	39.29	6.13	37.12	0.59	49.28	54.00	-4.72	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.01	53.77	25.65	1.83	39.58	0.74	42.41	74.00	-31.59	P
1250.01	48.29	25.65	1.83	39.58	0.74	36.93	54.00	-17.07	A
10480.05	53.36	39.29	6.13	37.12	0.59	62.25	74.00	-11.75	P
10480.05	39.98	39.29	6.13	37.12	0.59	48.87	54.00	-5.13	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11n HT20 TX / CH Low	TEMP & Humidity	25°C, 62%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.01	56.14	25.65	1.83	39.58	0.74	44.78	74.00	-29.22	P
1250.01	51.03	25.65	1.83	39.58	0.74	39.67	54.00	-14.33	A
10360.00	55.93	39.24	6.04	37.28	0.54	64.47	74.00	-9.53	P
10360.00	41.29	39.24	6.04	37.28	0.54	49.83	54.00	-4.17	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	53.32	25.65	1.83	39.58	0.74	41.96	74.00	-32.04	P
1250.00	47.97	25.65	1.83	39.58	0.74	36.61	54.00	-17.39	A
10360.04	53.02	39.24	6.04	37.28	0.54	61.56	74.00	-12.44	P
10360.04	39.57	39.24	6.04	37.28	0.54	48.11	54.00	-5.89	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11n HT20 TX / CH Middle	TEMP & Humidity	25°C, 62%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	58.94	25.65	1.83	39.58	0.74	47.58	74.00	-26.42	P
1250.00	54.11	25.65	1.83	39.58	0.74	42.75	54.00	-11.25	A
10440.01	53.16	39.28	6.10	37.17	0.58	61.94	74.00	-12.06	P
10440.01	39.82	39.28	6.10	37.17	0.58	48.60	54.00	-5.40	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	54.31	25.65	1.83	39.58	0.74	42.95	74.00	-31.05	P
1250.00	48.19	25.65	1.83	39.58	0.74	36.83	54.00	-17.17	A
10440.03	53.04	39.28	6.10	37.17	0.58	61.82	74.00	-12.18	P
10440.03	39.86	39.28	6.10	37.17	0.58	48.64	54.00	-5.36	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11n HT20 TX / CH High	TEMP & Humidity	25°C, 62%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	58.21	25.65	1.83	39.58	0.74	46.85	74.00	-27.15	P
1250.00	52.94	25.65	1.83	39.58	0.74	41.58	54.00	-12.42	A
10480.02	51.22	39.29	6.13	37.12	0.59	60.11	74.00	-13.89	P
10480.02	38.76	39.29	6.13	37.12	0.59	47.65	54.00	-6.35	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	55.14	25.65	1.83	39.58	0.74	43.78	74.00	-30.22	P
1250.00	48.44	25.65	1.83	39.58	0.74	37.08	54.00	-16.92	A
10480.03	53.03	39.29	6.13	37.12	0.59	61.92	74.00	-12.08	P
10480.03	40.76	39.29	6.13	37.12	0.59	49.65	54.00	-4.35	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11n HT40 TX / CH Low	TEMP & Humidity	18.3°C, 61%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	57.35	25.65	1.83	39.58	0.74	45.99	74.00	-28.01	P
1250.00	51.05	25.65	1.83	39.58	0.74	39.69	54.00	-14.31	A
10380.04	52.44	39.25	6.05	37.26	0.55	61.04	74.00	-12.96	P
10380.04	40.13	39.25	6.05	37.26	0.55	48.73	54.00	-5.27	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.01	55.60	25.65	1.83	39.58	0.74	44.24	74.00	-29.76	P
1250.01	48.27	25.65	1.83	39.58	0.74	36.91	54.00	-17.09	A
10380.06	53.24	39.25	6.05	37.26	0.55	61.84	74.00	-12.16	P
10380.06	41.00	39.25	6.05	37.26	0.55	49.60	54.00	-4.40	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11n HT40 TX / CH Middle	TEMP & Humidity	25°C, 62%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	57.32	25.65	1.83	39.58	0.74	45.96	74.00	-28.04	P
1250.00	50.69	25.65	1.83	39.58	0.74	39.33	54.00	-14.67	A
10420.02	52.17	39.27	6.08	37.20	0.57	60.89	74.00	-13.11	P
10420.02	39.46	39.27	6.08	37.20	0.57	48.18	54.00	-5.82	A

Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	54.21	25.65	1.83	39.58	0.74	42.85	74.00	-31.15	P
1250.00	47.93	25.65	1.83	39.58	0.74	36.57	54.00	-17.43	A
10420.04	52.28	39.27	6.08	37.20	0.57	61.00	74.00	-13.00	P
10420.04	38.74	39.27	6.08	37.20	0.57	47.46	54.00	-6.54	A

REMARK:

1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Product Name	Smart 300N Broadband Router	Test By	John Chen
Model	BR485d	Test Date	Nov. 24, 2011
Test Mode	IEEE 802.11n HT40 TX / CH High	TEMP & Humidity	25°C, 62%

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	55.91	25.65	1.83	39.58	0.74	44.55	74.00	-29.45	P
1250.00	49.52	25.65	1.83	39.58	0.74	38.16	54.00	-15.84	A
10460.03	51.62	39.28	6.11	37.15	0.58	60.45	74.00	-13.55	P
10460.03	40.23	39.28	6.11	37.15	0.58	49.06	54.00	-4.94	A

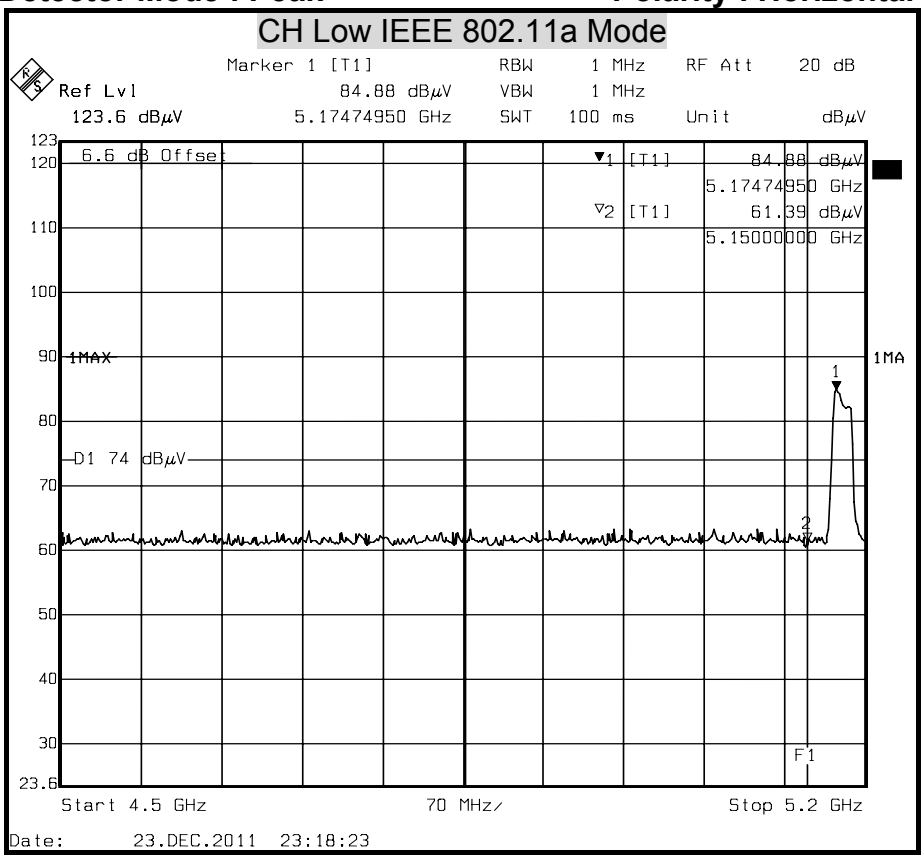
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
1250.00	52.77	25.65	1.83	39.58	0.74	41.41	74.00	-32.59	P
1250.00	47.29	25.65	1.83	39.58	0.74	35.93	54.00	-18.07	A
10460.03	53.14	39.28	6.11	37.15	0.58	61.97	74.00	-12.03	P
10460.03	40.87	39.28	6.11	37.15	0.58	49.70	54.00	-4.30	A

REMARK:

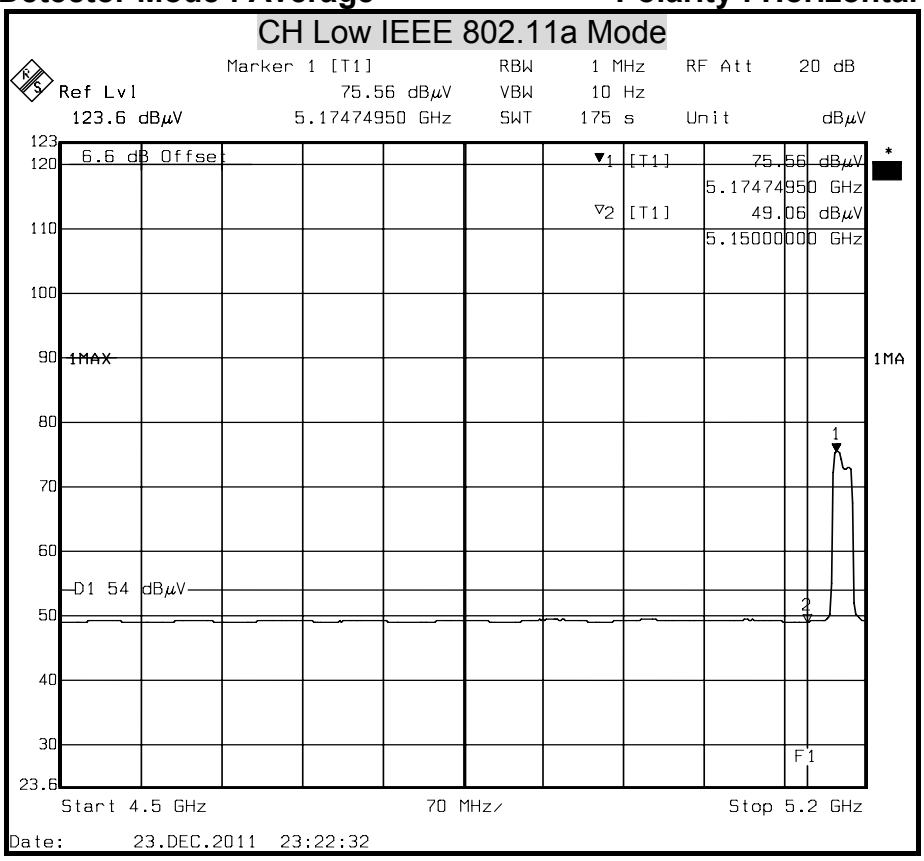
1. *AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss*
2. *Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz*
3. *The result basic equation calculation is as follow:*
   Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. *The other emission levels were 20dB below the limit*
5. *The test limit distance is 3M limit.*

Restricted Band Edges

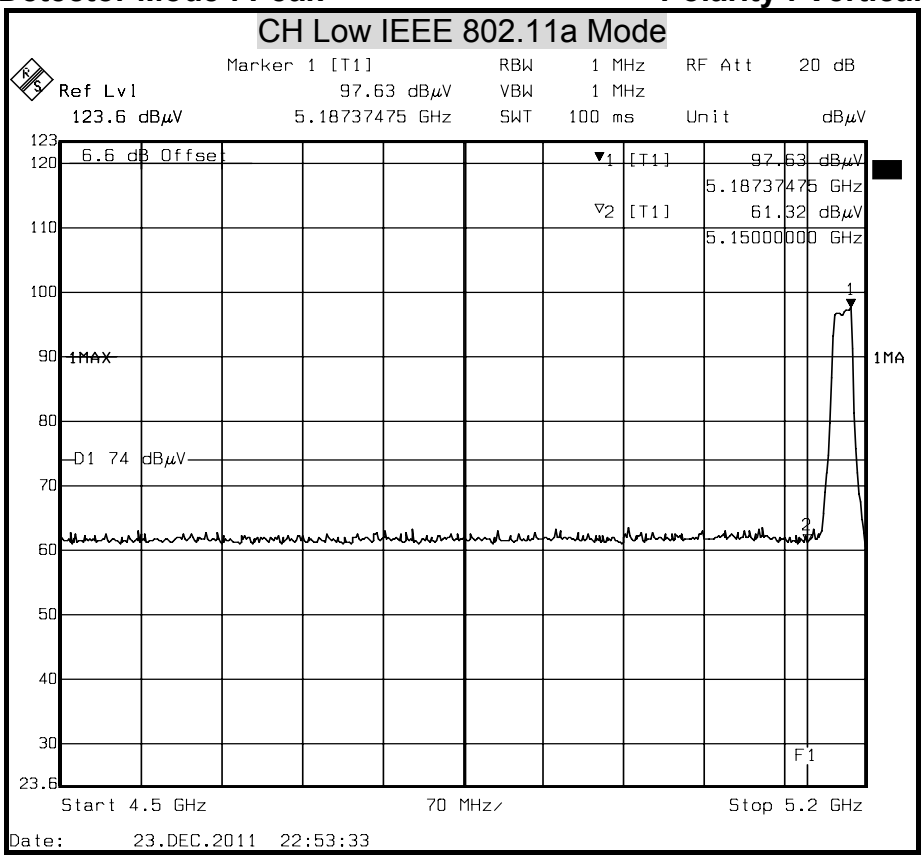
Detector Mode : Peak **Polarity : Horizontal**



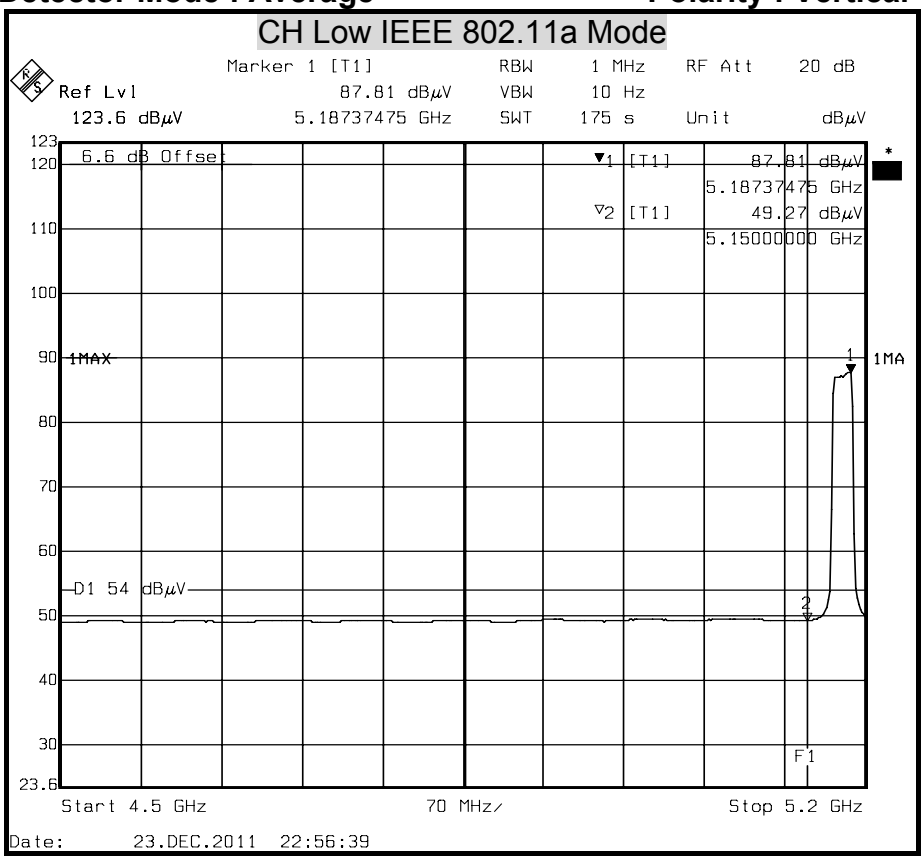
Detector Mode : Average **Polarity : Horizontal**



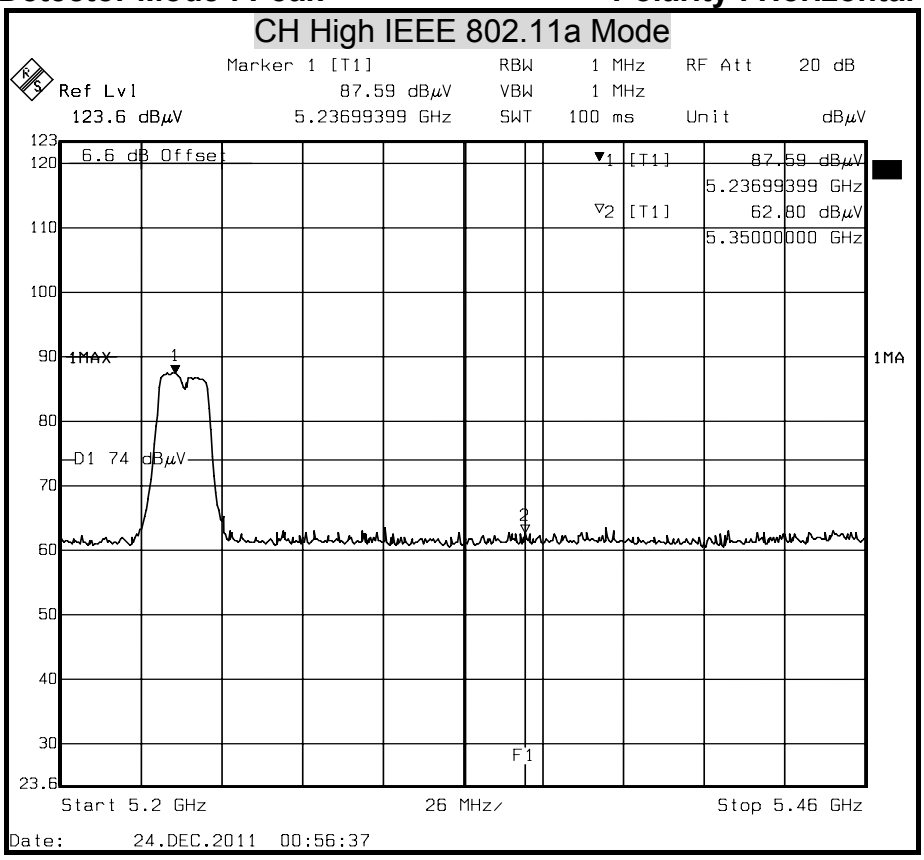
Detector Mode : Peak **Polarity : Vertical**



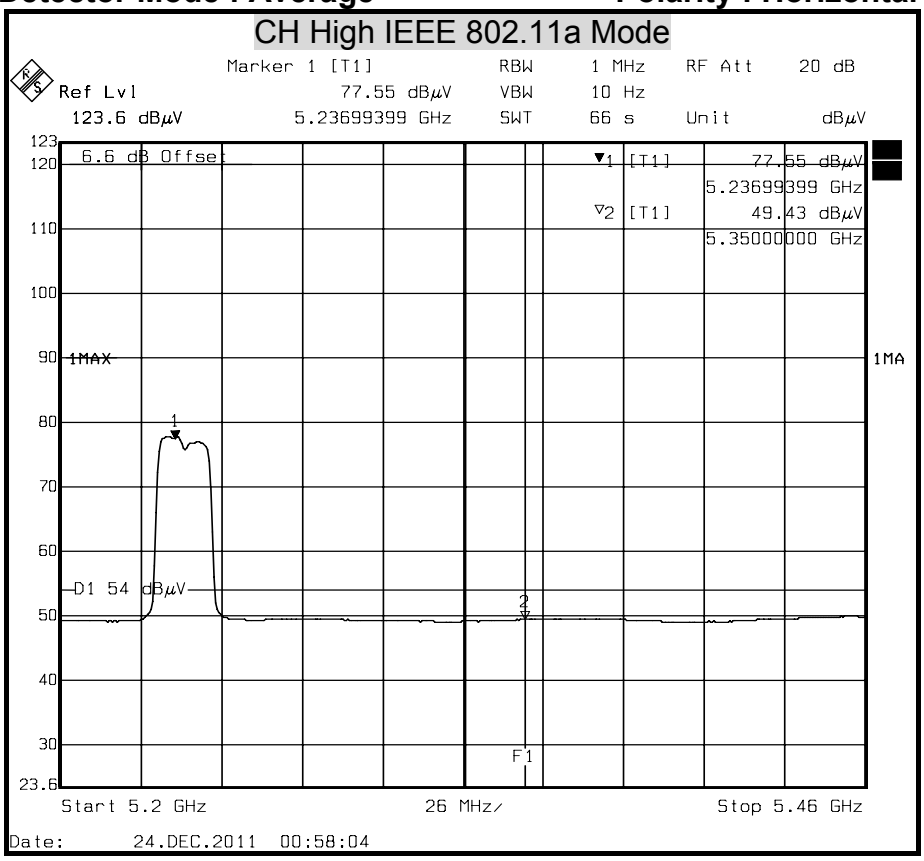
Detector Mode : Average **Polarity : Vertical**



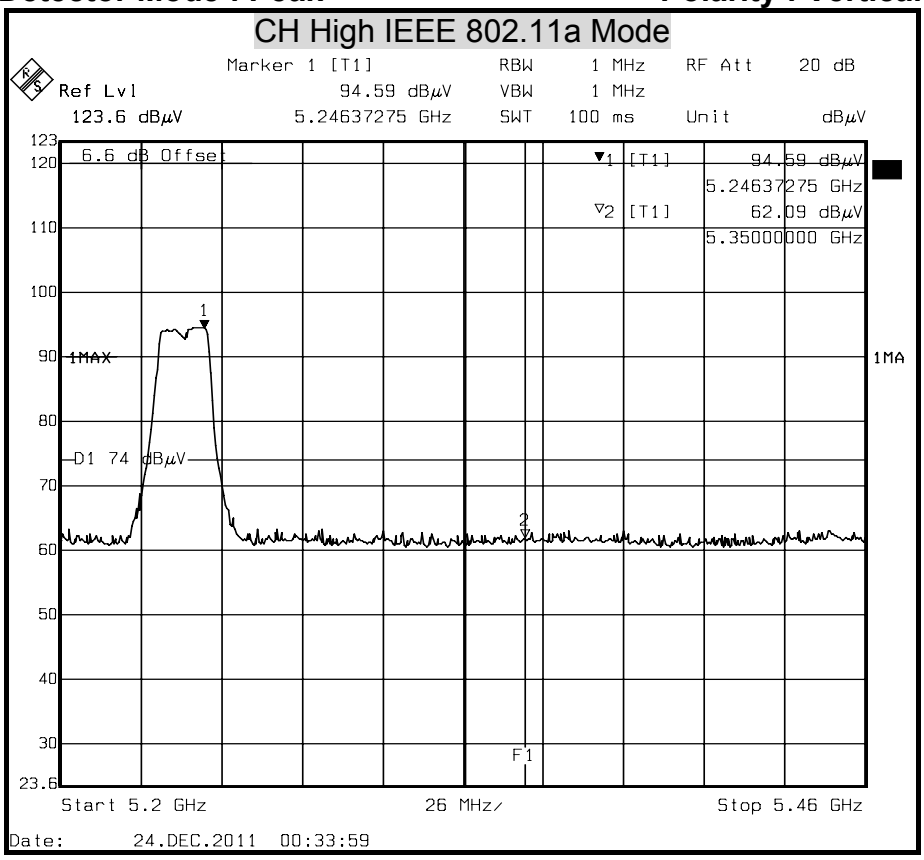
Detector Mode : Peak **Polarity : Horizontal**



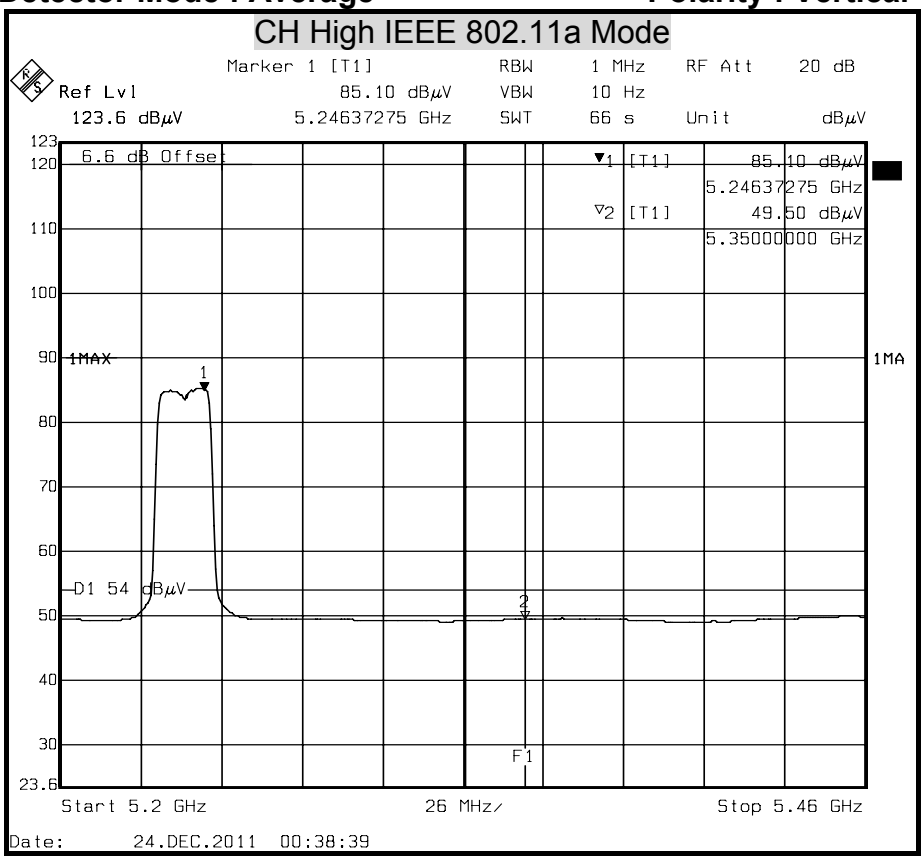
Detector Mode : Average **Polarity : Horizontal**



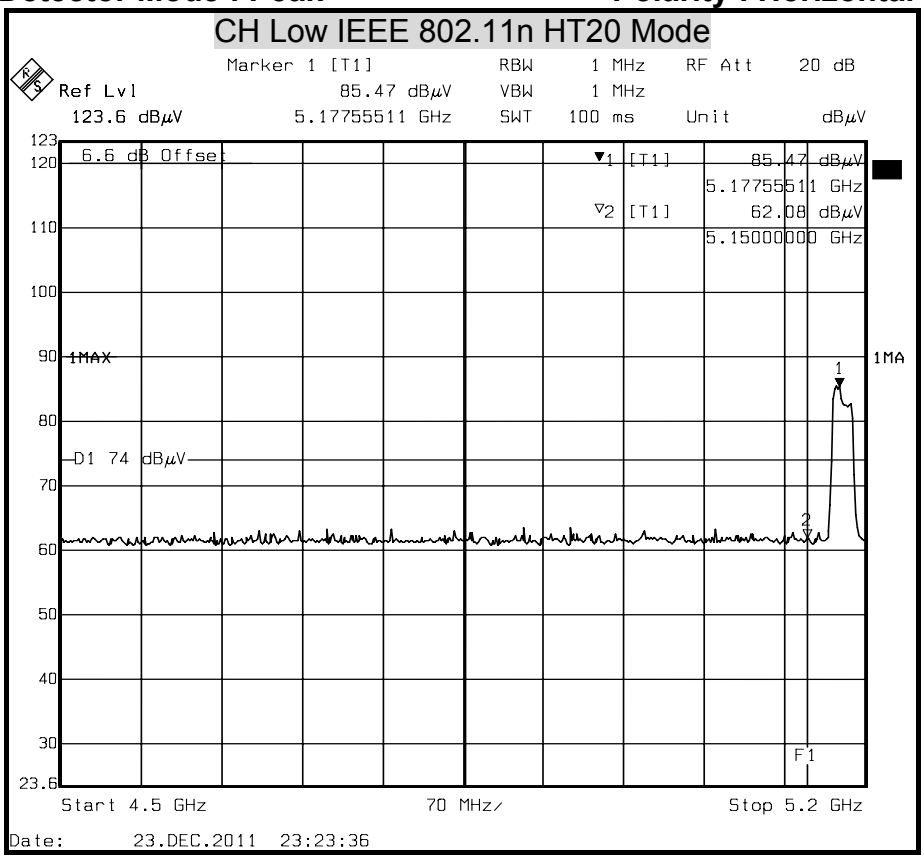
Detector Mode : Peak **Polarity : Vertical**



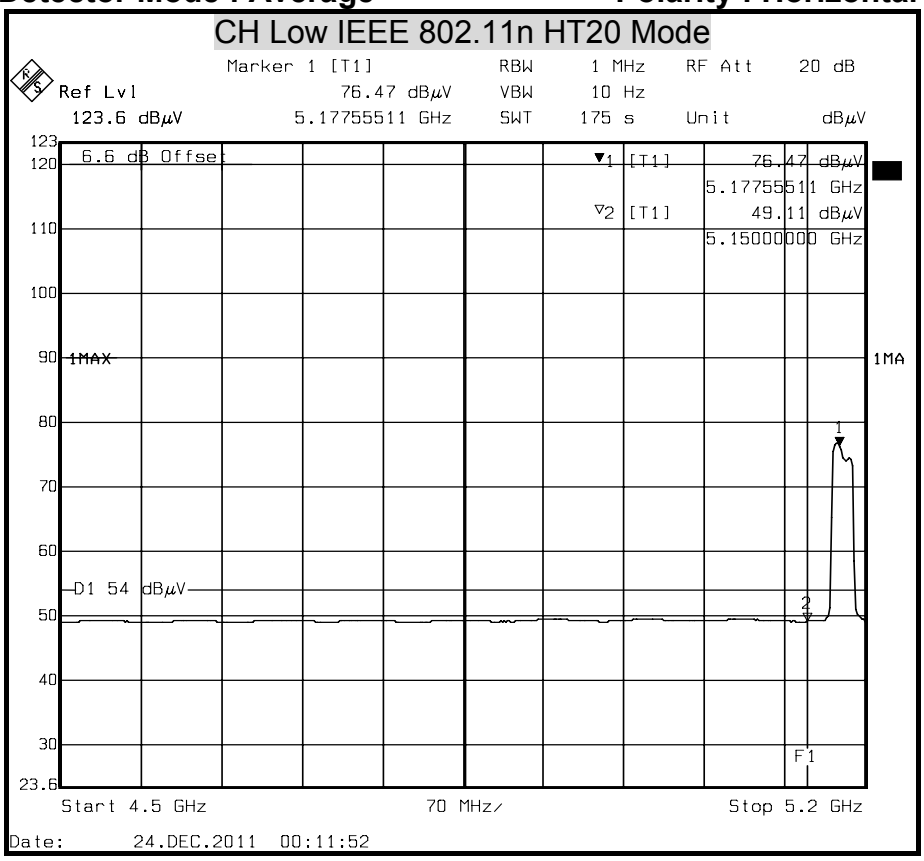
Detector Mode : Average **Polarity : Vertical**



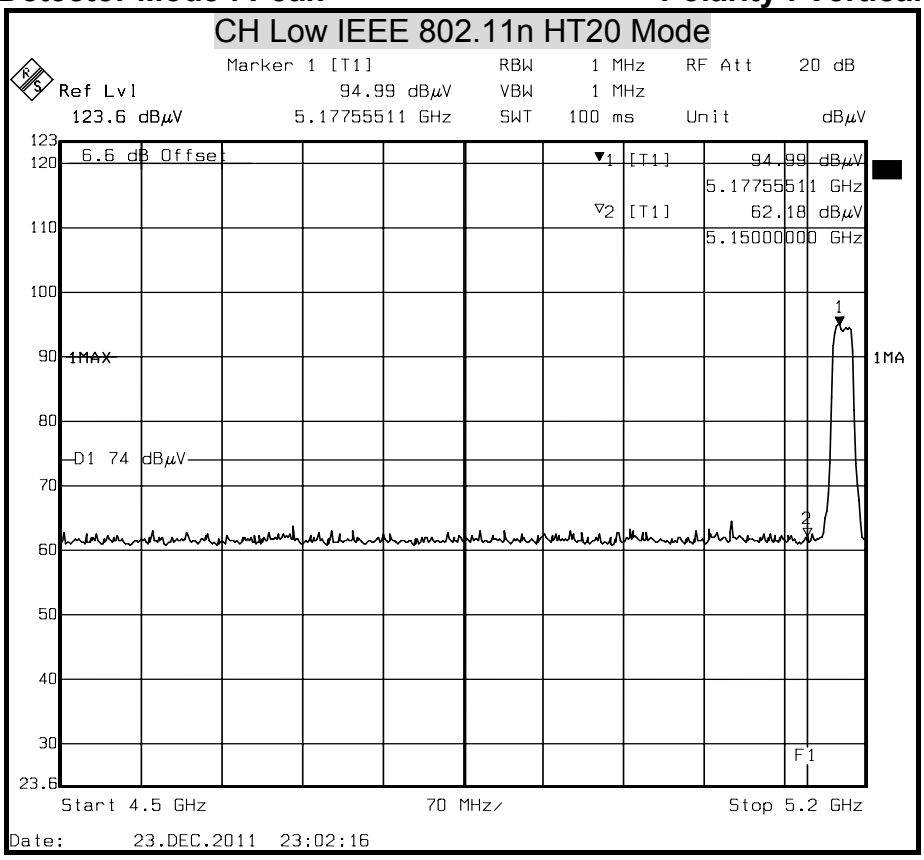
Detector Mode : Peak **Polarity : Horizontal**



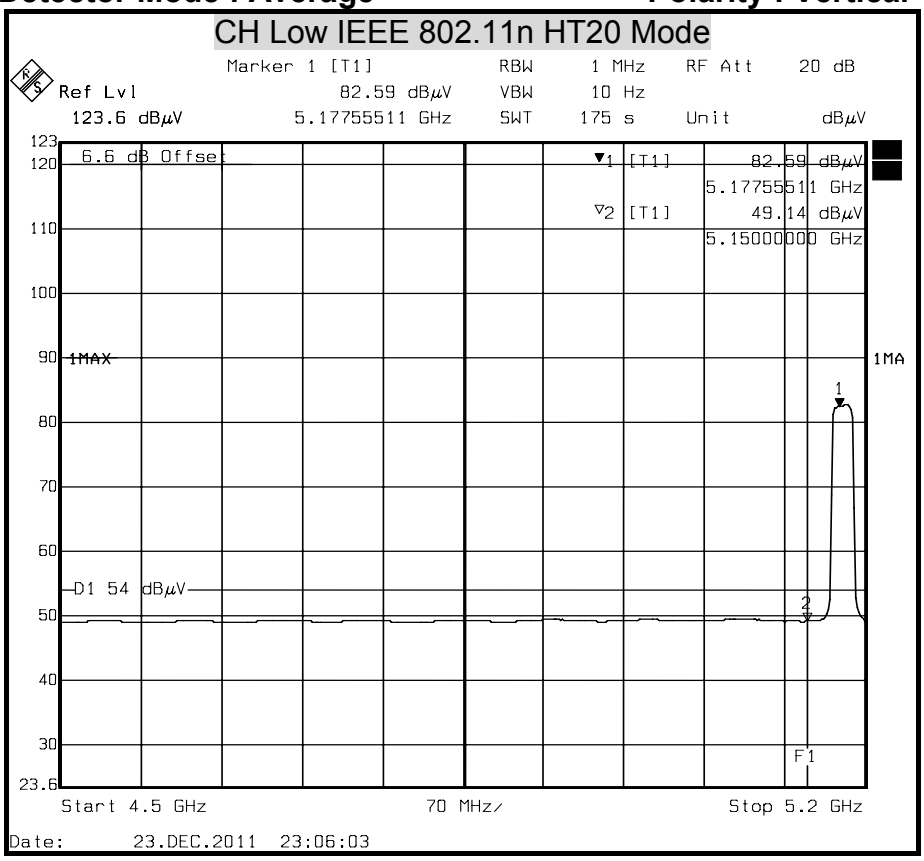
Detector Mode : Average **Polarity : Horizontal**



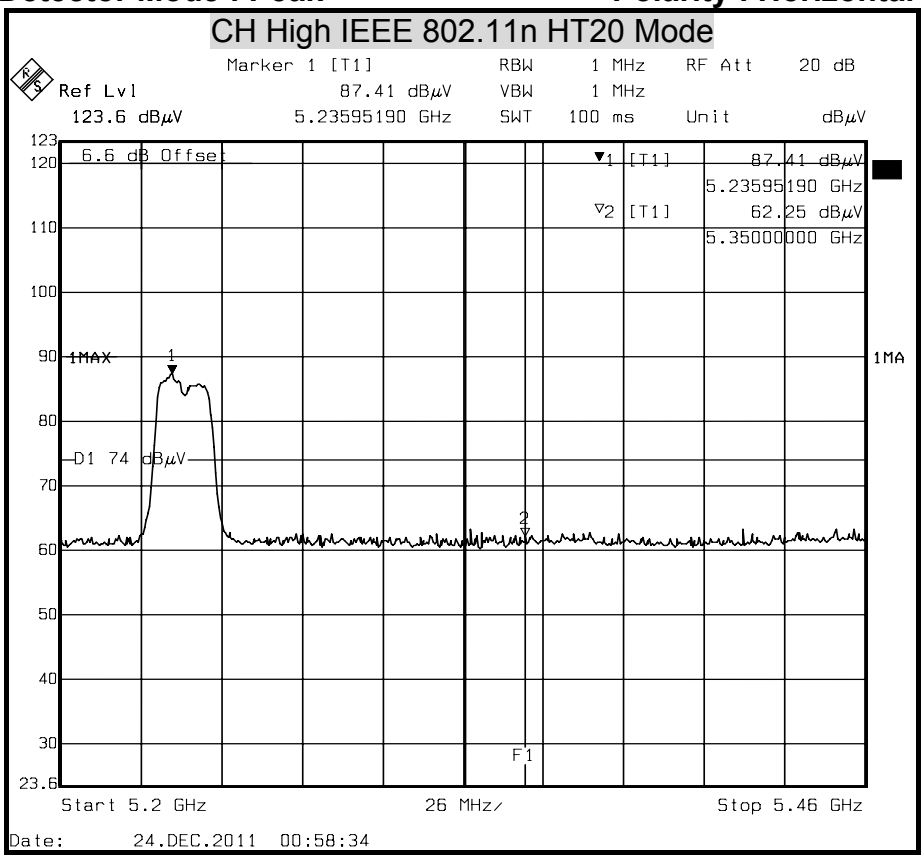
Detector Mode : Peak **Polarity : Vertical**



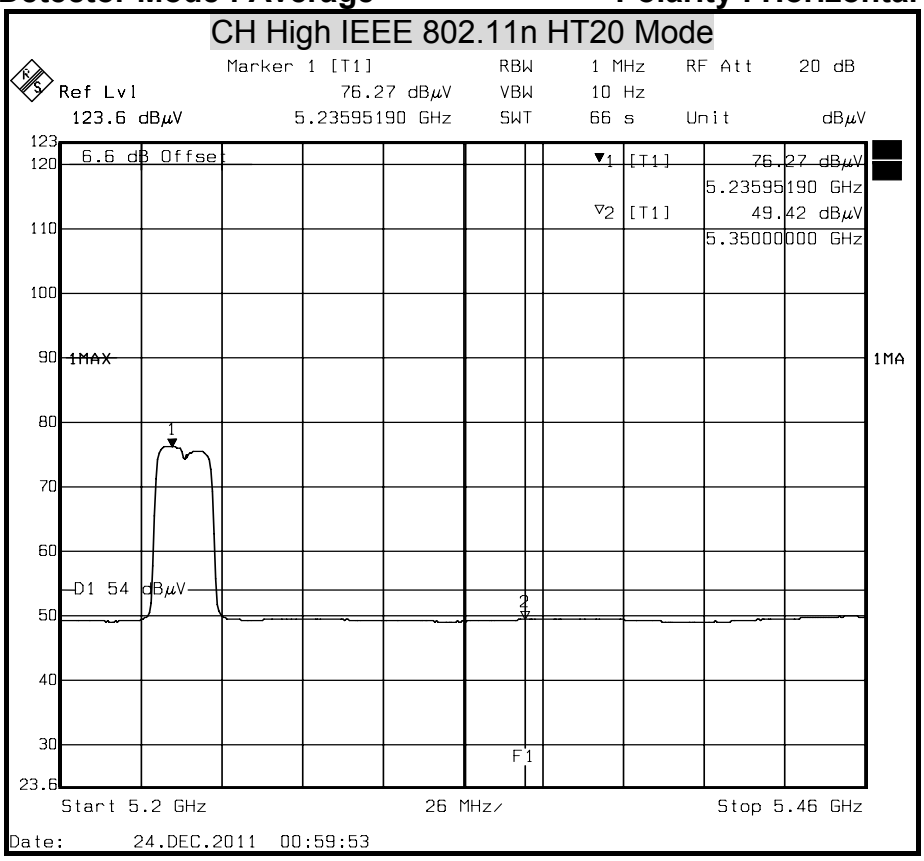
Detector Mode : Average **Polarity : Vertical**



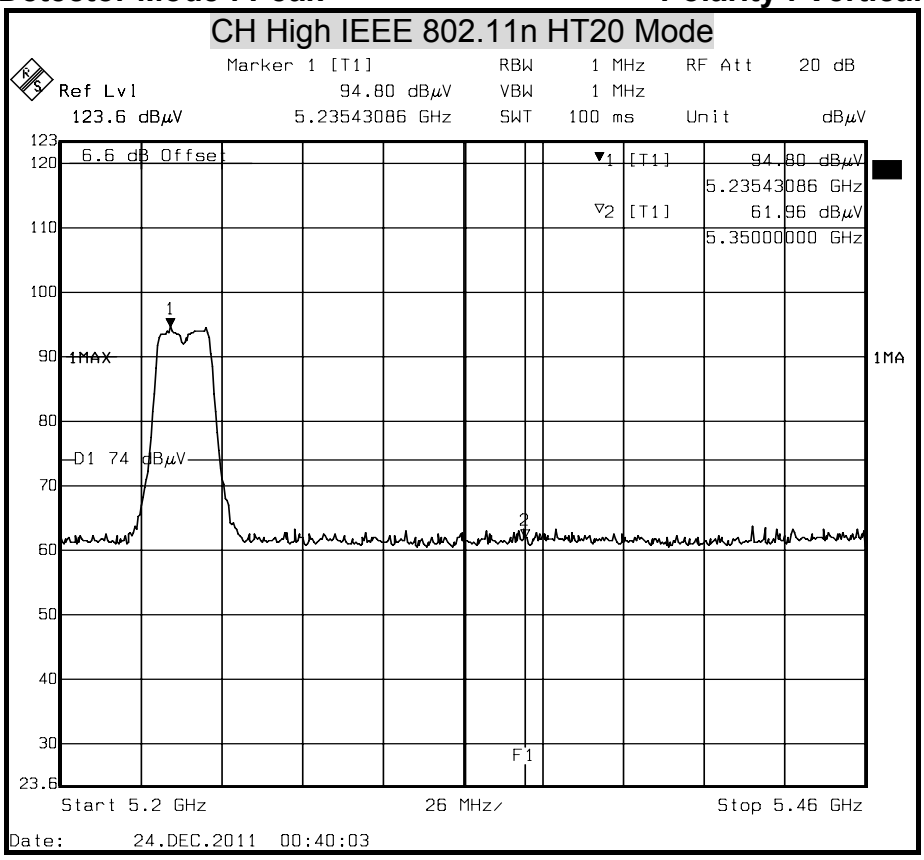
Detector Mode : Peak **Polarity : Horizontal**



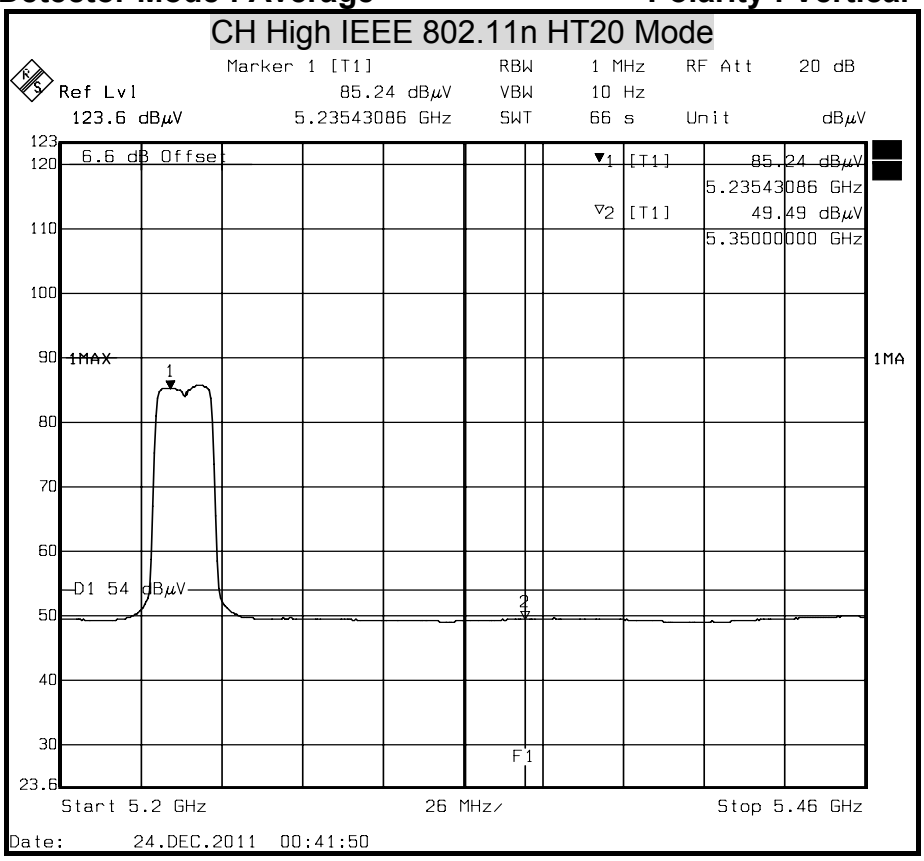
Detector Mode : Average **Polarity : Horizontal**



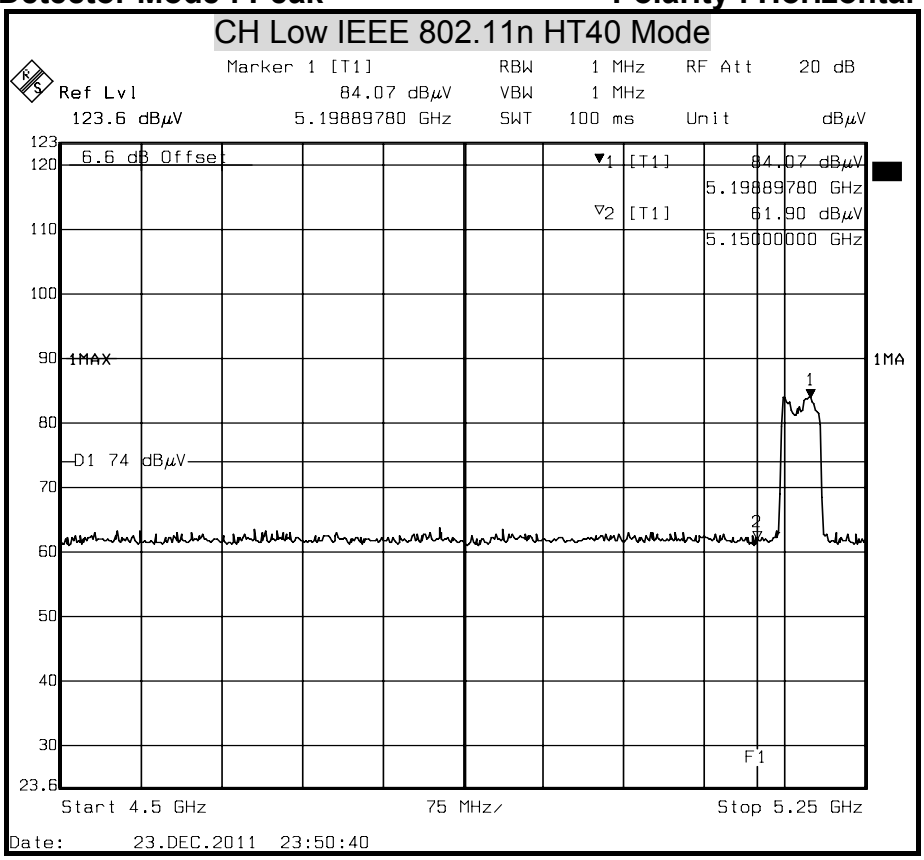
Detector Mode : Peak **Polarity : Vertical**



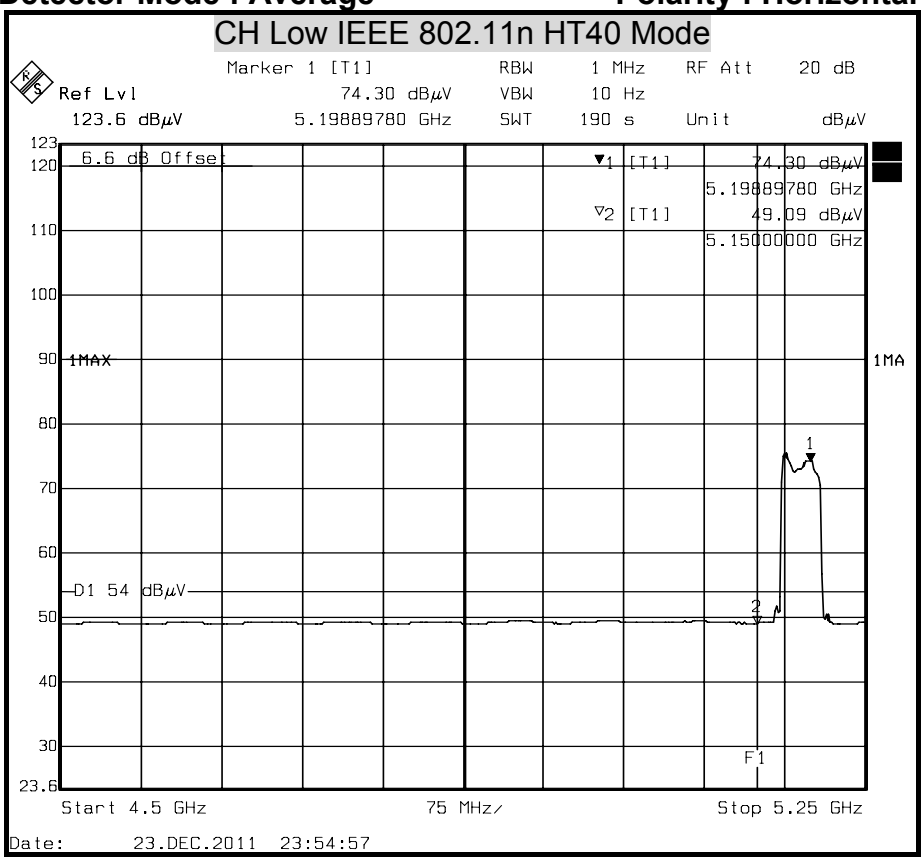
Detector Mode : Average **Polarity : Vertical**



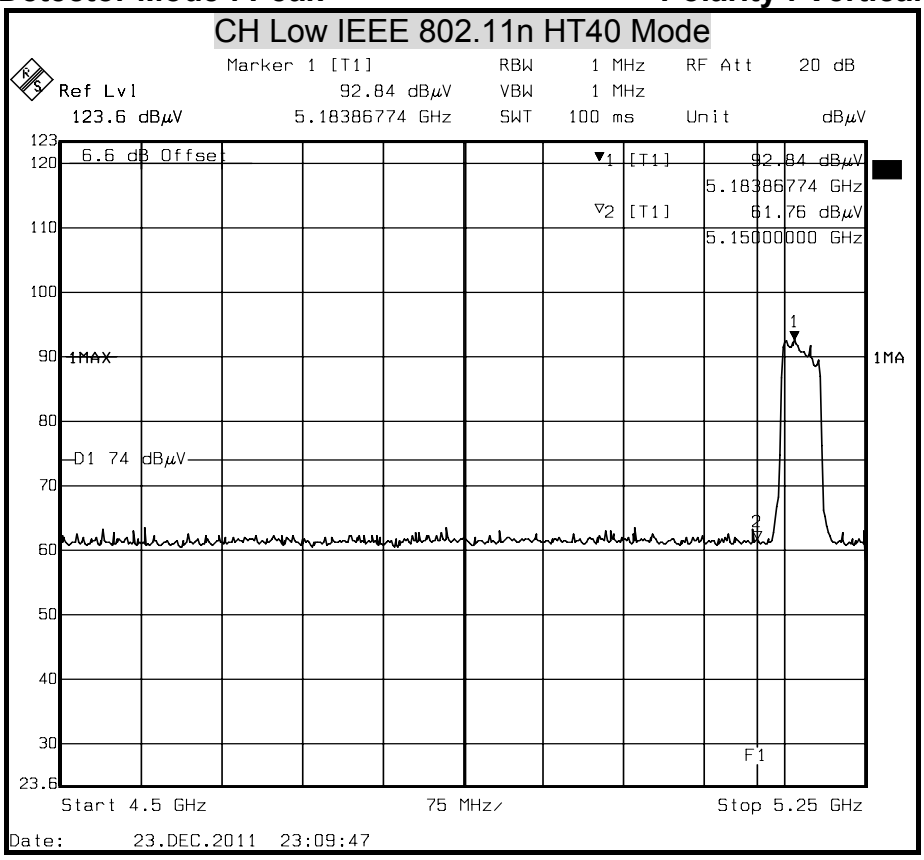
Detector Mode : Peak **Polarity : Horizontal**



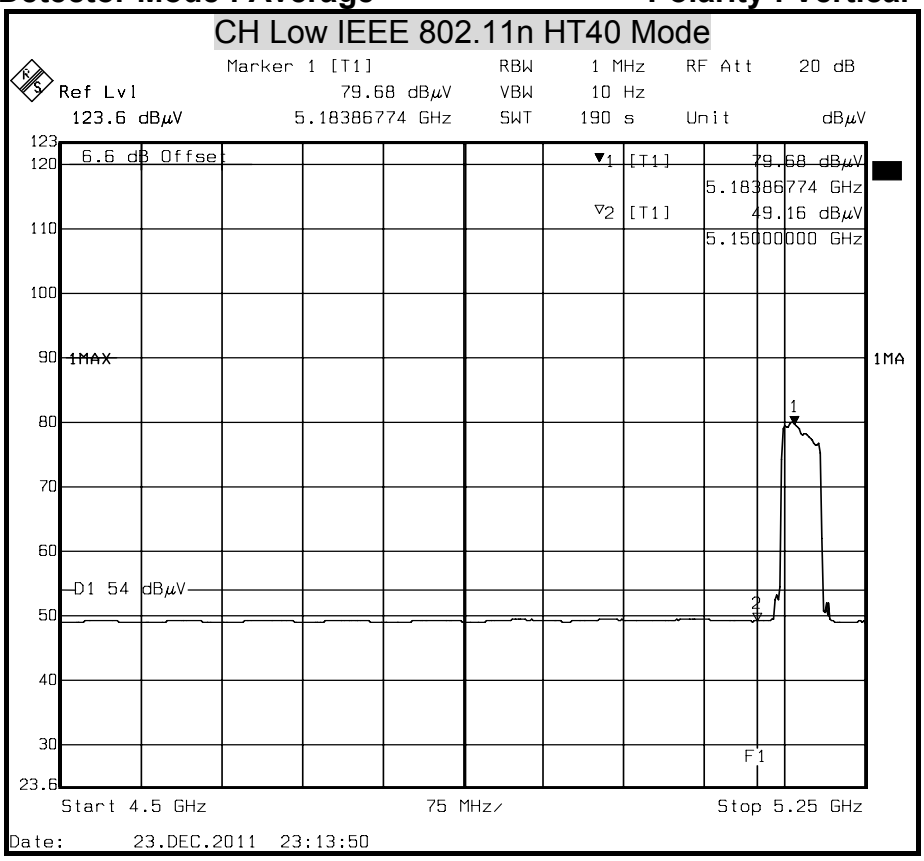
Detector Mode : Average **Polarity : Horizontal**



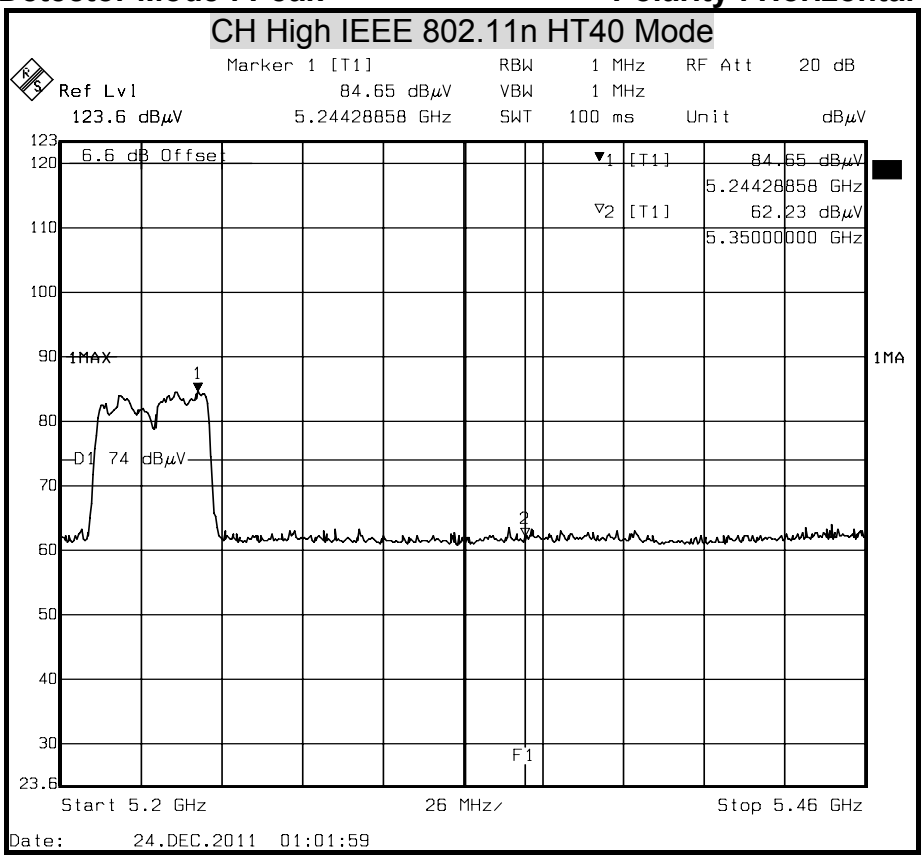
Detector Mode : Peak **Polarity : Vertical**



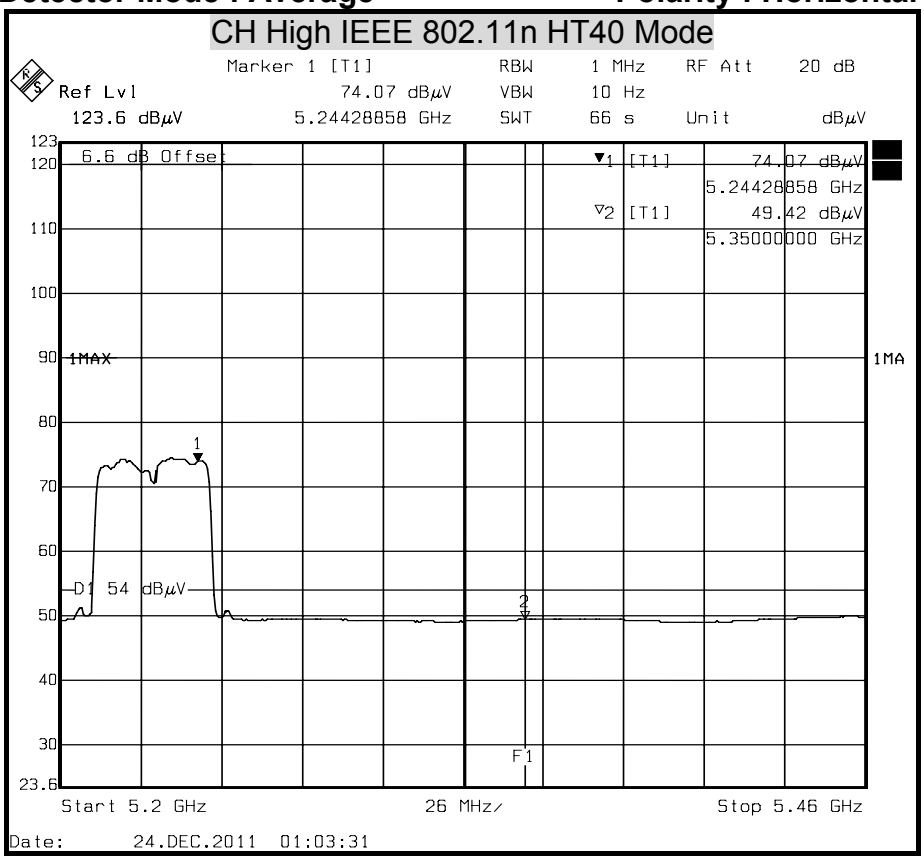
Detector Mode : Average **Polarity : Vertical**



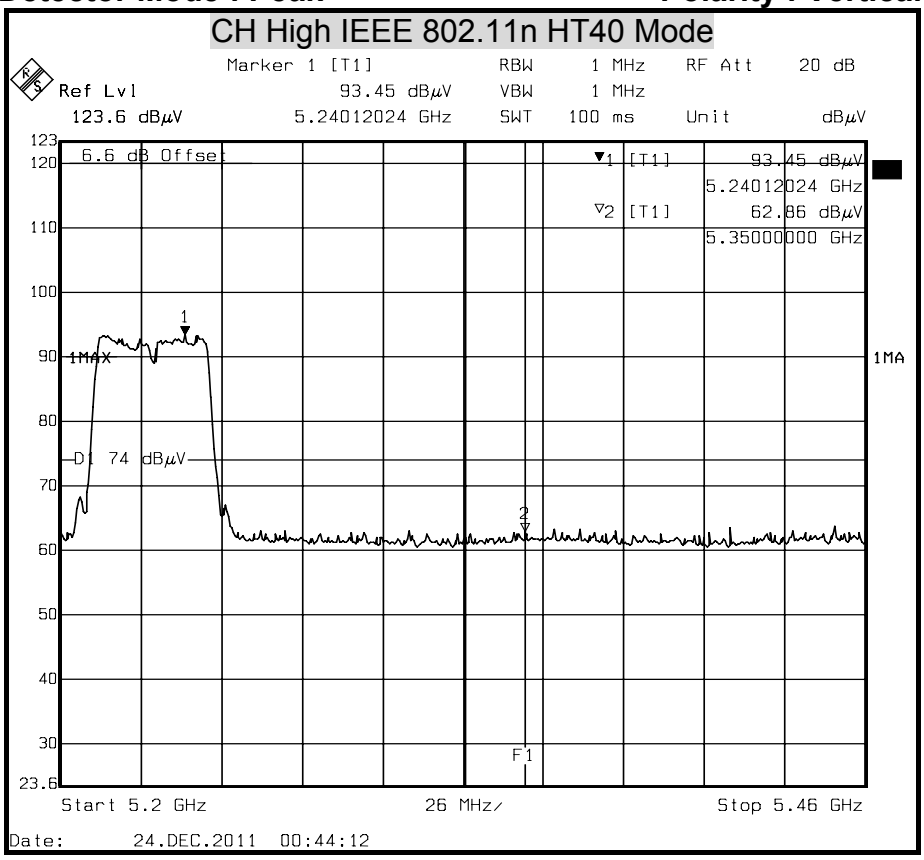
Detector Mode : Peak **Polarity : Horizontal**



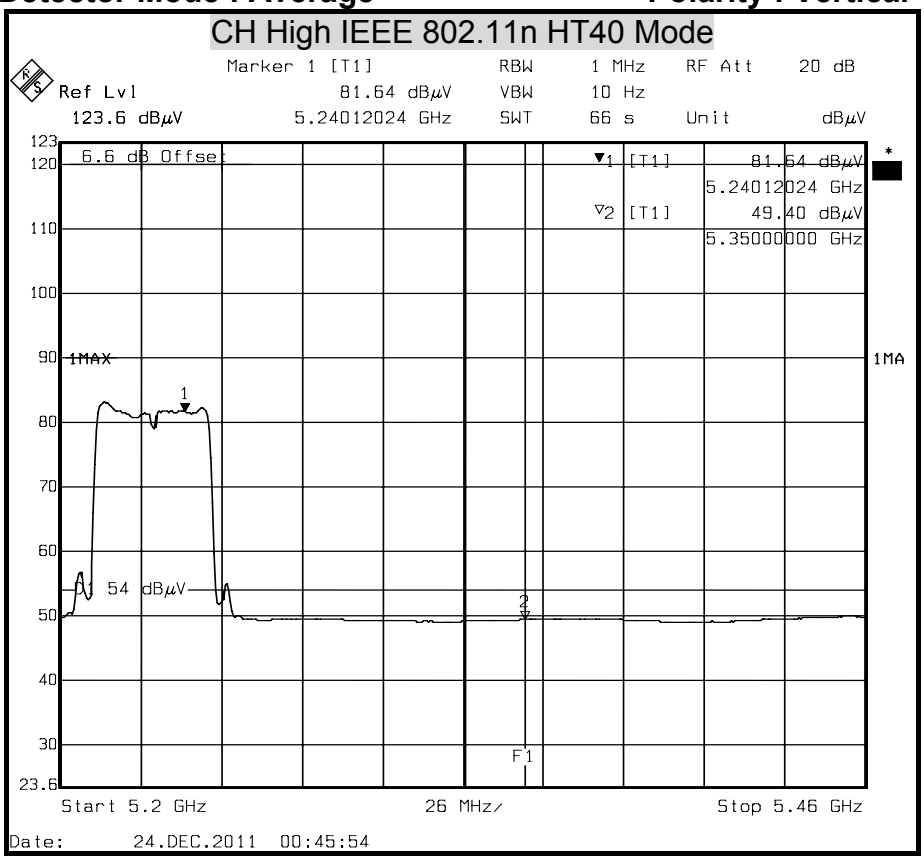
Detector Mode : Average **Polarity : Horizontal**



Detector Mode : Peak **Polarity : Vertical**



Detector Mode : Average **Polarity : Vertical**



7.7 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

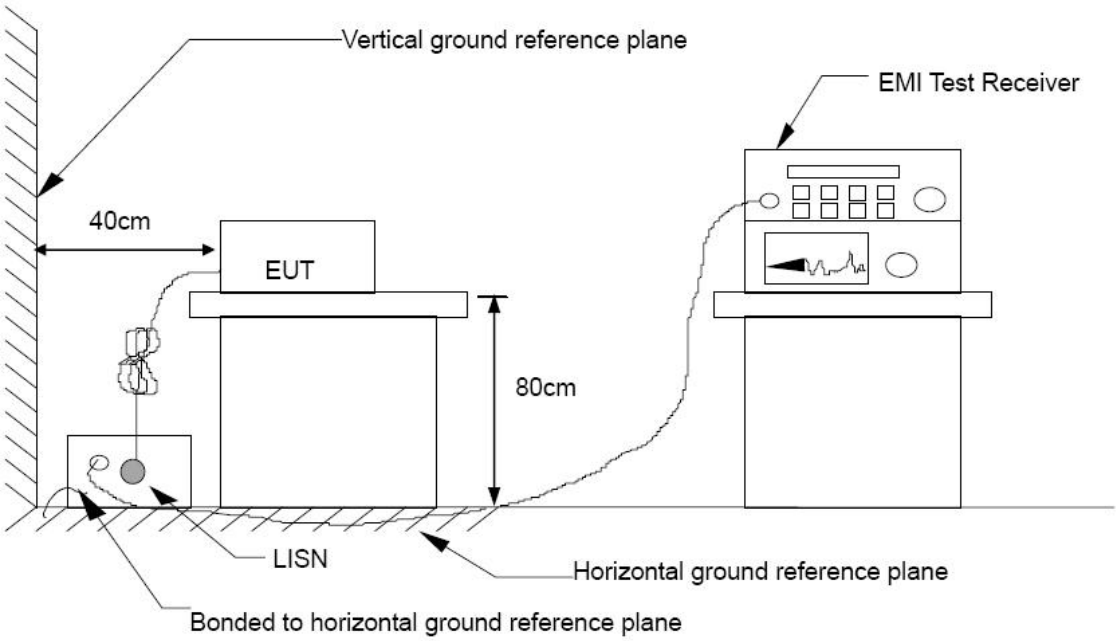
Frequency Range (MHz)	Conducted Limit (dBμv)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

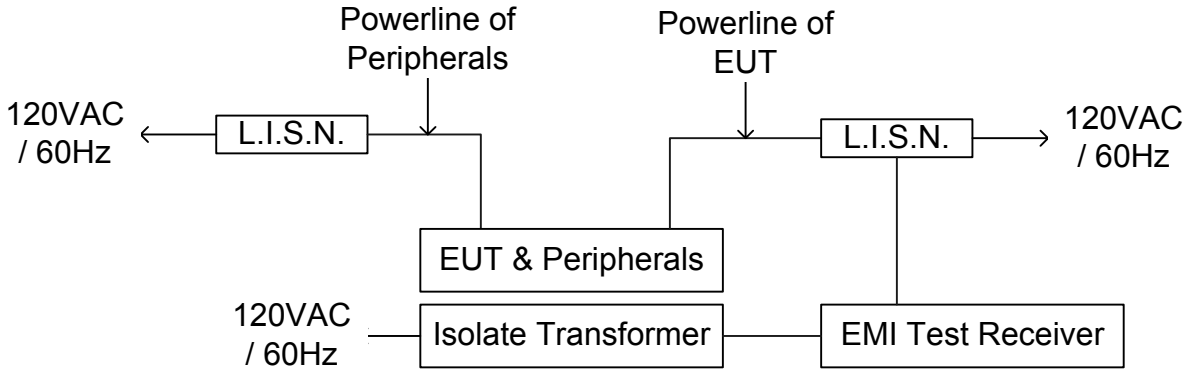
TEST EQUIPMENT

Conducted Emission room #1				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N.	SCHWARZBECK	NNLK 8130	8130124	SEP. 25, 2012
	Rohde & Schwarz	ESH 3-Z5	840062/021	AUG. 02, 2012
TEST RECEIVER	Rohde & Schwarz	ESCS 30	100348	JUL. 03, 2012
BNC COAXIAL CABLE	CCS	BNC50	11	OCT. 30, 2012
Test S/W	e-3 (5.04211c) R&S (2.27)			

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP





TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2003.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

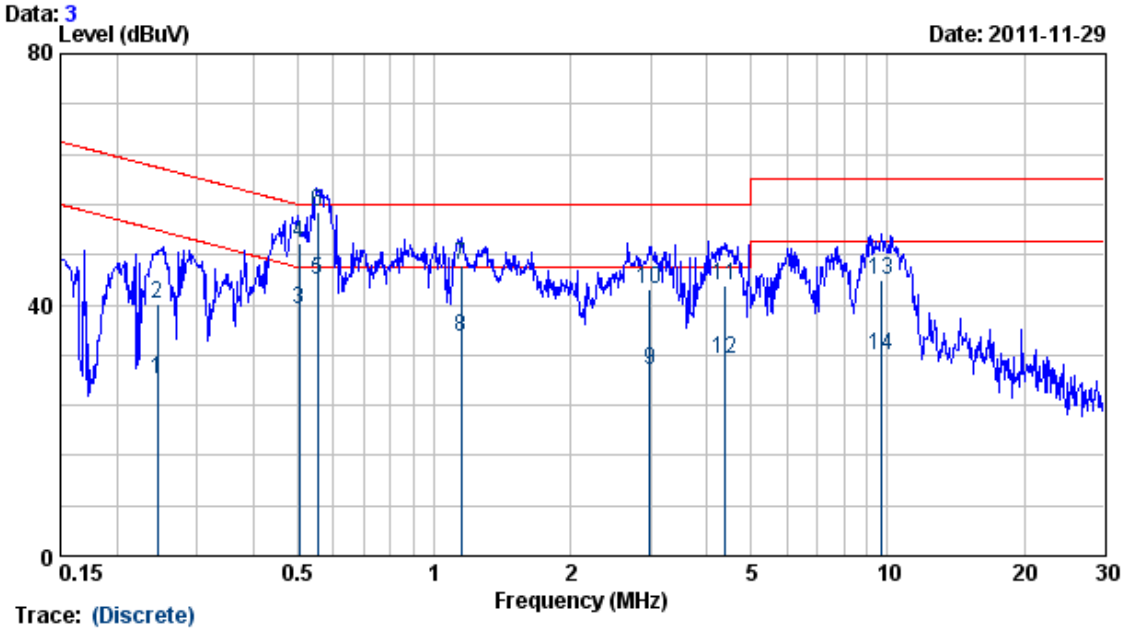
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Product Name	Smart 300N Broadband Router	Test By	Ted Huang
Model	BR485d	Test Date	Nov. 29, 2011
Test Mode	TX Mode	Temp. & Humidity	24.8°C, 63%

LINE



Trace: (Discrete)

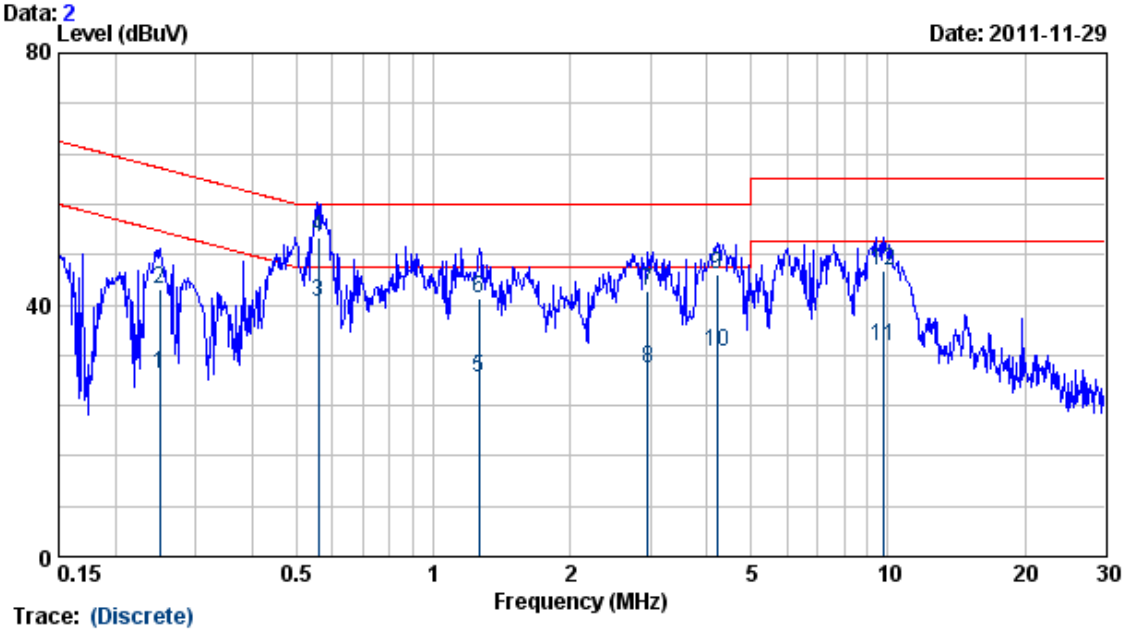
Freq. MHz	LISN Factor dB	Cable Loss dB	Meter Reading dBuV	Measured Level dBuV	Limits dBuV	Over Limits dBuV	Detector
0.25	9.94	0.22	18.00	28.17	51.91	-23.74	AVERAGE
0.25	9.94	0.22	30.06	40.23	61.91	-21.68	QP
0.50	10.01	0.23	29.01	39.25	46.00	-6.75	AVERAGE
0.50	10.01	0.23	39.54	49.78	56.00	-6.22	QP
0.55	10.02	0.23	33.60	43.84	46.00	-2.16	AVERAGE
0.55	10.02	0.23	44.54	54.78	56.00	-1.22	QP
1.15	10.05	0.21	36.18	46.44	56.00	-9.56	QP
1.15	10.05	0.21	24.59	34.85	46.00	-11.15	AVERAGE
2.99	9.97	0.25	19.40	29.62	46.00	-16.38	AVERAGE
2.99	9.97	0.25	32.32	42.54	56.00	-13.46	QP
4.38	10.06	0.25	32.72	43.03	56.00	-12.97	QP
4.38	10.06	0.25	21.18	31.49	46.00	-14.51	AVERAGE
9.71	10.07	0.31	33.62	44.00	60.00	-16.00	QP
9.71	10.07	0.31	21.66	32.04	50.00	-17.96	AVERAGE

Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Emission level = Reading Value + Correction factor
3. Margin value = Emission level – Limit value

Product Name	Smart 300N Broadband Router	Test By	Ted Huang
Model	BR485d	Test Date	Nov. 29, 2011
Test Mode	TX Mode	Temp. & Humidity	24.5°C, 56%

NEUTRAL



Freq. MHz	LISN Factor dB	Cable Loss dB	Meter Reading dBuV	Measured Level dBuV	Limits dBuV	Over Limits dBuV	Detector
0.25	9.95	0.22	18.93	29.10	51.73	-22.63	AVERAGE
0.25	9.95	0.22	32.30	42.47	61.73	-19.26	QP
0.56	10.02	0.23	30.27	40.51	46.00	-5.49	AVERAGE
0.56	10.02	0.23	40.46	50.70	56.00	-5.30	QP
1.26	10.05	0.21	18.26	28.52	46.00	-17.48	AVERAGE
1.26	10.05	0.21	30.84	41.10	56.00	-14.90	QP
2.96	9.97	0.25	32.04	42.26	56.00	-13.74	QP
2.96	9.97	0.25	19.62	29.84	46.00	-16.16	AVERAGE
4.20	10.05	0.26	34.66	44.98	56.00	-11.02	QP
4.20	10.05	0.26	22.24	32.56	46.00	-13.44	AVERAGE
9.76	10.07	0.31	23.07	33.45	50.00	-16.55	AVERAGE
9.76	10.07	0.31	34.98	45.36	60.00	-14.64	QP

Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Emission level = Reading Value + Correction factor
3. Margin value = Emission level – Limit value

7.8 FREQUENCY STABILITY

LIMITS

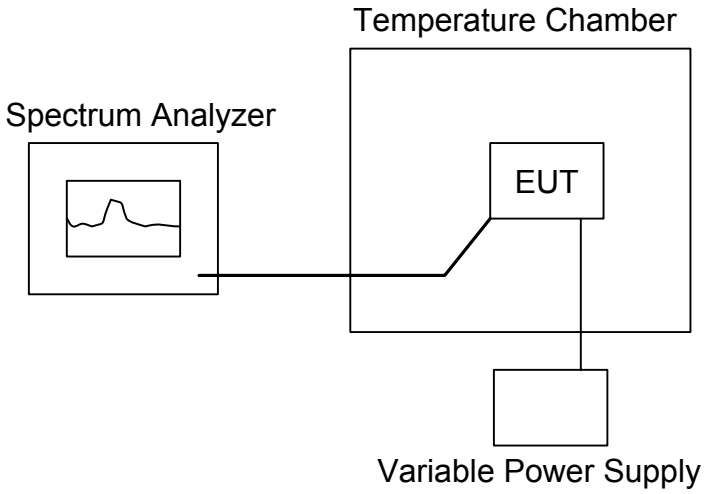
§ 15.407 (g) manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSEK 30	835253/002	SEP. 29, 2012
Temp./Humidity Chamber	K.SON	THS-M1	242	AUG. 09, 2012

Remark: *Each piece of equipment is scheduled for calibration once a year*

TEST SETUP



TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

TEST RESULTS

IEEE 802.11a mode

CH Low				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
50	110	5180.106710	5150-5250	PASS
40		5180.106700	5150~5250	
30		5180.106700	5150~5250	
20		5180.106710	5150~5250	
10		5180.106690	5150~5250	
0		5180.106690	5150~5250	
-10		5180.106700	5150~5250	
-20		5180.106710	5150~5250	

CH Low				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
20	99	5180.106720	5150~5250	PASS
	110	5180.106690	5150~5250	
	121	5180.106710	5150~5250	

IEEE 802.11a mode

CH High				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
50	110	5220.106470	5150~5250	PASS
40		5220.106510	5150~5250	
30		5220.106490	5150~5250	
20		5220.106510	5150~5250	
10		5220.106510	5150~5250	
0		5220.106530	5150~5250	
-10		5220.106510	5150~5250	
-20		5220.106520	5150~5250	

CH High				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
20	99	5220.106480	5150~5250	PASS
	110	5220.106520	5150~5250	
	121	5220.106510	5150~5250	

IEEE 802.11n HT20 mode

CH Low				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
50	110	5180.114620	5150~5250	PASS
40		5180.114630	5150~5250	
30		5180.114650	5150~5250	
20		5180.114650	5150~5250	
10		5180.114640	5150~5250	
0		5180.114630	5150~5250	
-10		5180.114610	5150~5250	
-20		5180.114630	5150~5250	

CH Low				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
20	99	5180.114630	5150~5250	PASS
	110	5180.114620	5150~5250	
	121	5180.114630	5150~5250	

IEEE 802.11n HT20 mode

CH High				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
50	110	5220.114850	5150~5250	PASS
40		5220.114830	5150~5250	
30		5220.114860	5150~5250	
20		5220.114840	5150~5250	
10		5220.114840	5150~5250	
0		5220.114830	5150~5250	
-10		5220.114810	5150~5250	
-20		5220.114800	5150~5250	

CH High				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
20	99	5220.114810	5150~5250	PASS
	110	5220.114800	5150~5250	
	121	5220.114830	5150~5250	

IEEE 802.11n HT40 mode

CH Low				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
50	110	5190.114520	5150~5250	PASS
40		5190.114550	5150~5250	
30		5190.114530	5150~5250	
20		5190.114540	5150~5250	
10		5190.114520	5150~5250	
0		5190.114540	5150~5250	
-10		5190.114530	5150~5250	
-20		5190.114530	5150~5250	

CH Low				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
20	99	5190.114520	5150~5250	PASS
	110	5190.114530	5150~5250	
	121	5190.114530	5150~5250	

IEEE 802.11n HT40 mode

CH High				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
50	110	5210.115010	5150~5250	PASS
40		5210.115030	5150~5250	
30		5210.115050	5150~5250	
20		5210.115050	5150~5250	
10		5210.115050	5150~5250	
0		5210.115030	5150~5250	
-10		5210.115020	5150~5250	
-20		5210.115030	5150~5250	

CH High				
Environment Temperature (°C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit Range**	**Test Result**
20	99	5210.115010	5150~5250	PASS
	110	5210.115010	5150~5250	
	121	5210.115030	5150~5250	

APPENDIX I MAXIMUM PERMISSIBLE EXPOSURE

According to FCC 1.1310 : The criteria listed in the following table shall be used to evaluate theenvironment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time
(A) Limits for Occupational / Control Exposures				
300-1,500	--	--	F/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population / Uncontrol Exposures				
300-1,500	--	--	F/1500	6
1,500-100,000	--	--	1	30

CALCULATIONS

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where E = Field strength in Volts / meter
P = Power in Watts
G = Numeric antenna gain
d = Distance in meters
S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and
d (cm) = d(m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$

Where d = Distance in cm
P = Power in mW
G = Numeric antenna gain
S = Power density in mW / cm2

LIMIT

Power Density Limit, S=1.0mW/cm^2

TEST RESULTS

Once Antenna Gain: 4 dBi = 2.51188643 mW

No non-compliance noted: (MPE distance equals 20 cm)

IEEE 802.11a	=	0.0796 *	7.6913	*	2.51188643	÷ 400 =	0.00384
IEEE 802.11n HT20	=	0.0796 *	15.0357	*	2.51188643	÷ 400 =	0.00752
IEEE 802.11n HT40	=	0.0796 *	13.3209	*	2.51188643	÷ 400 =	0.00666

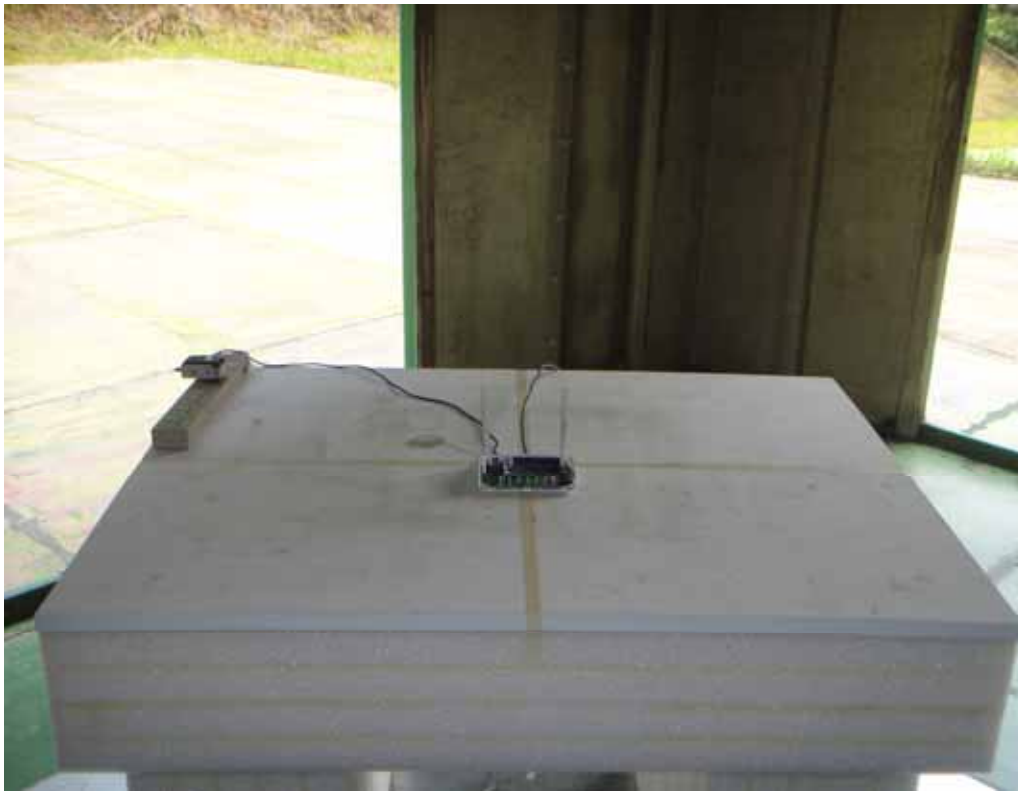
Mode	Antenna Gain (dBi)	Minimum separation distance (cm)	Output Power (dBm)	Numeric antenna gain (mW)	Power Density Limit (mW/cm^2)	Power Density at 20cm (mW/cm^2)
IEEE 802.11a	4.00	20.0	8.86	7.69	1.00	0.003845
IEEE 802.11n HT20	4.00	20.0	11.77	15.04	1.00	0.007516
IEEE 802.11n HT40	4.00	20.0	11.25	13.32	1.00	0.006659

Remark: *For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm^2 even if the calculation indicates that the power density would be larger.*

APPENDIX II SETUP PHOTOS

RADIATED EMISSION SETUP

RADIATED RF MEASUREMENT SETUP



RADIATED RF MEASUREMENT SETUP

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP

CONDUCTED EMISSION SETUP