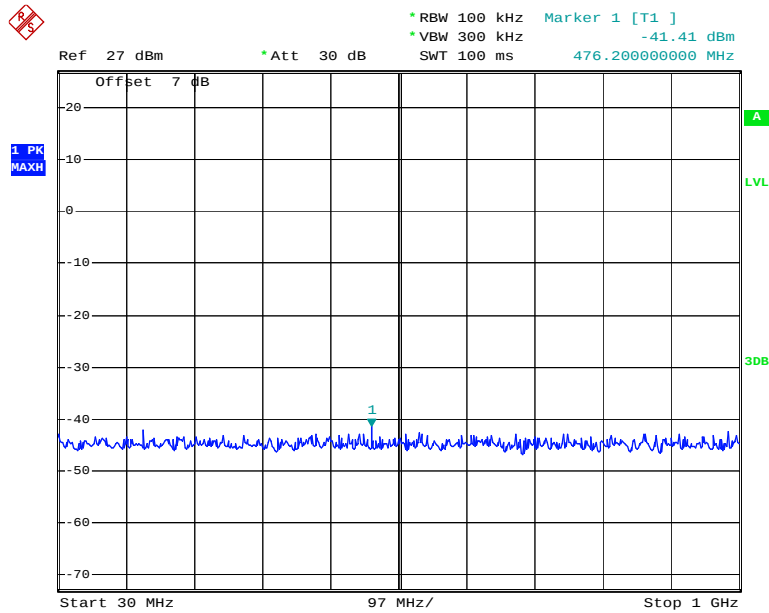
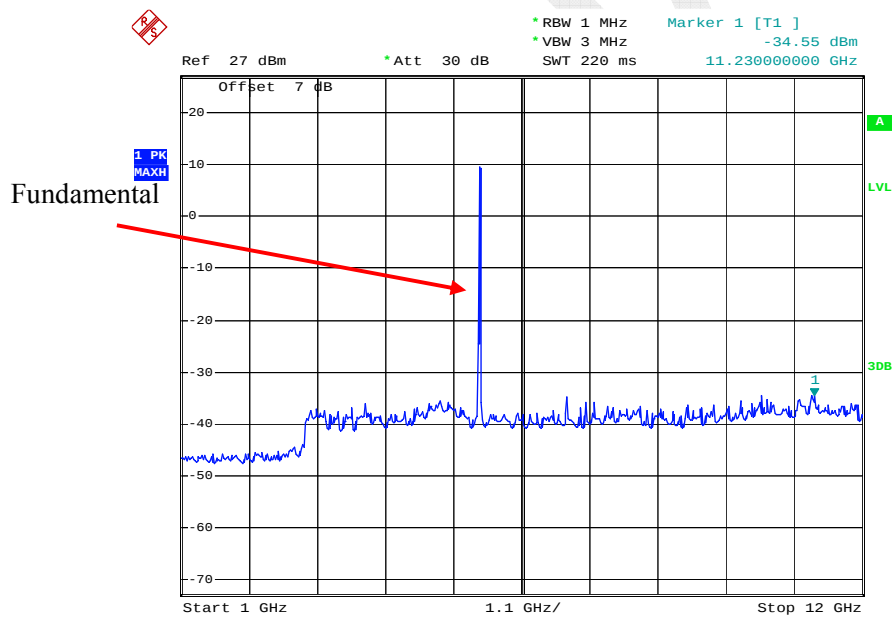


Antenna0 802.11n ht20 High Channel 30MHz-1GHz



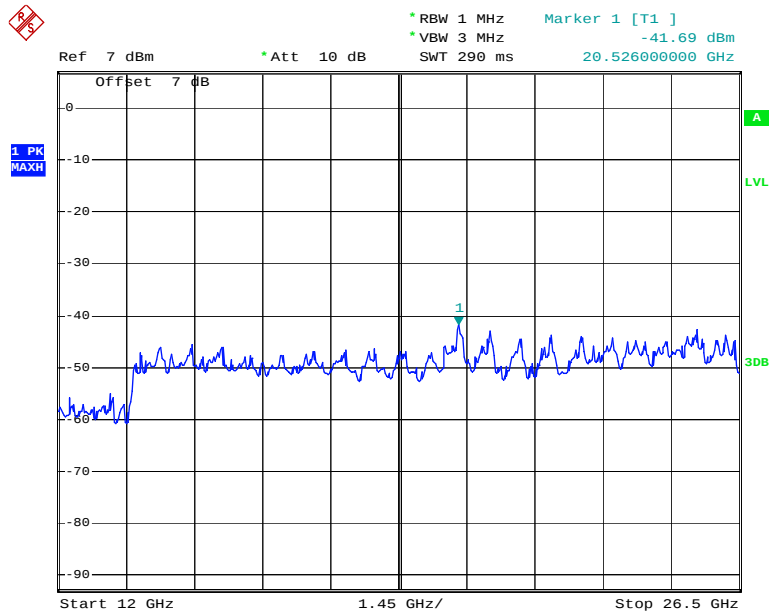
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Antenna0 802.11n ht20 High Channel 1GHz-12GHz



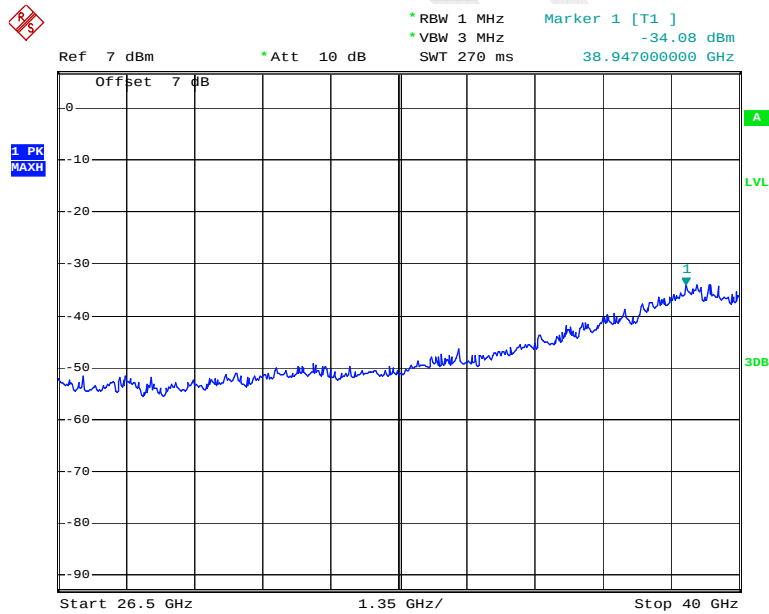
Date: 18.NOV.2014 14:07:08

Antenna0 802.11n ht20 High Channel 12GHz-26.5GHz



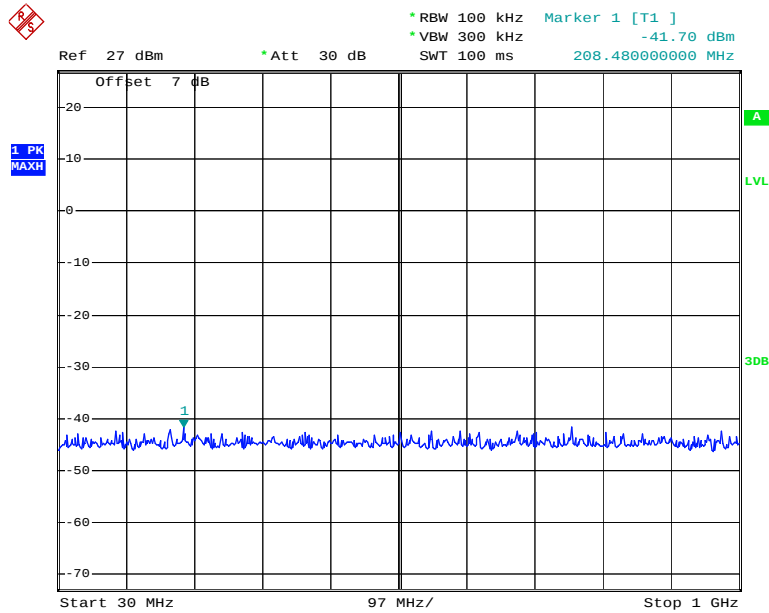
Date: 18.NOV.2014 14:51:17

Antenna0 802.11n ht20 High Channel 26.5GHz-40GHz



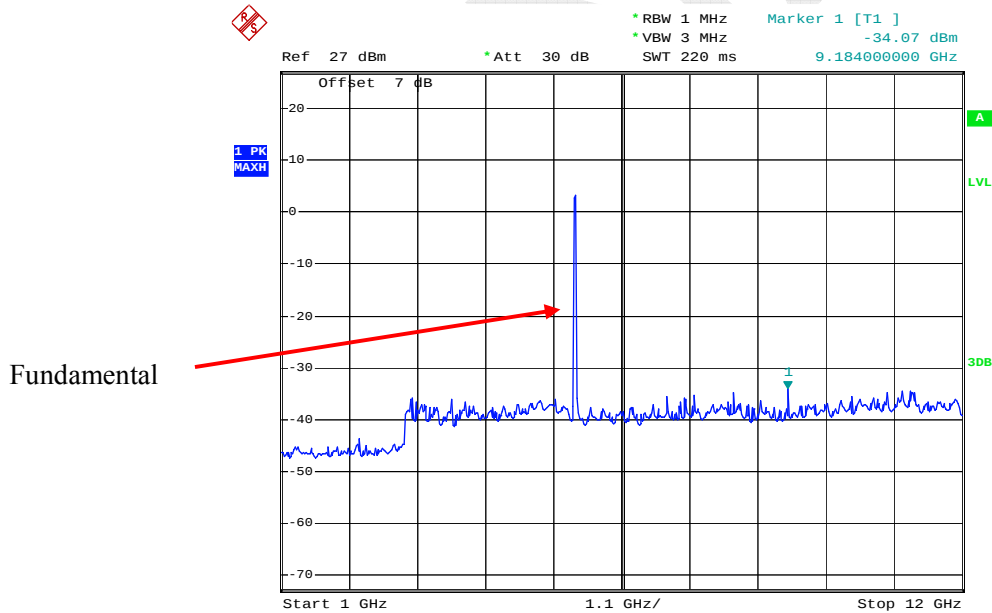
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Antenna0 802.11n ht40 Low Channel 30MHz-1GHz



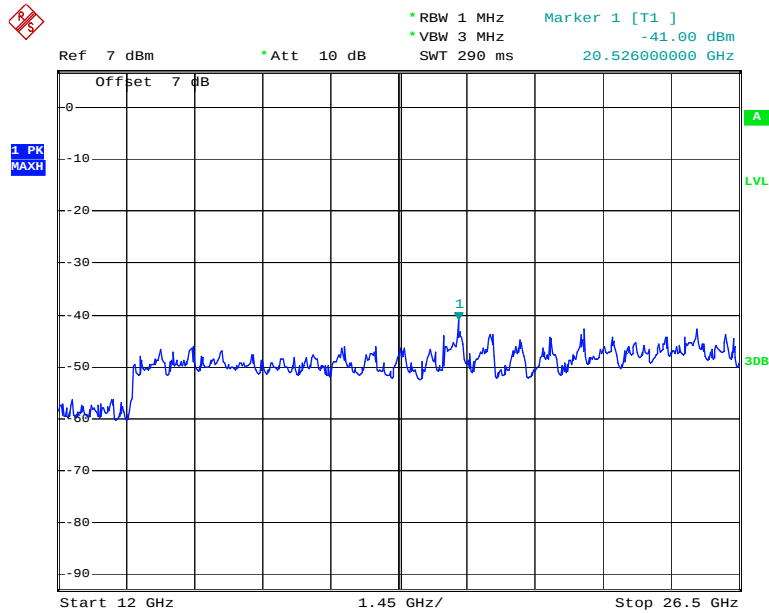
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Antenna0 802.11n ht40 Low Channel 1GHz-12GHz



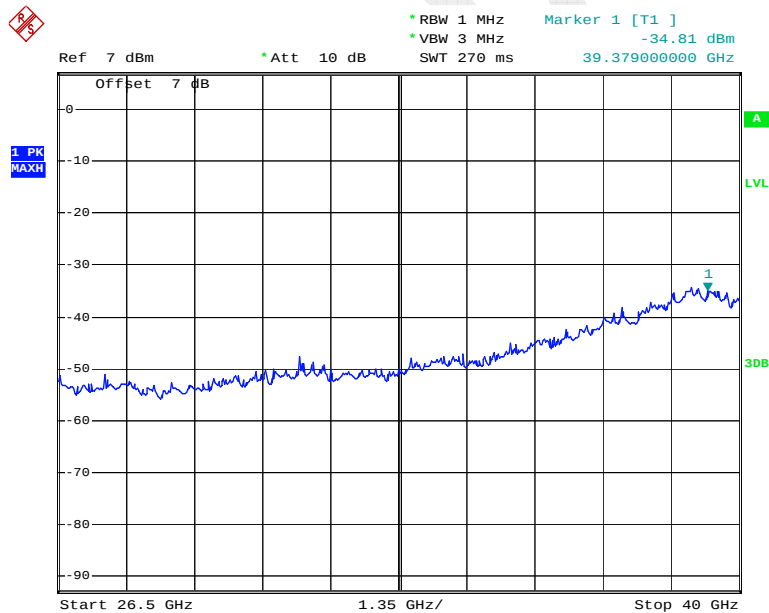
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Antenna0 802.11n ht40 Low Channel 12GHz-26.5GHz



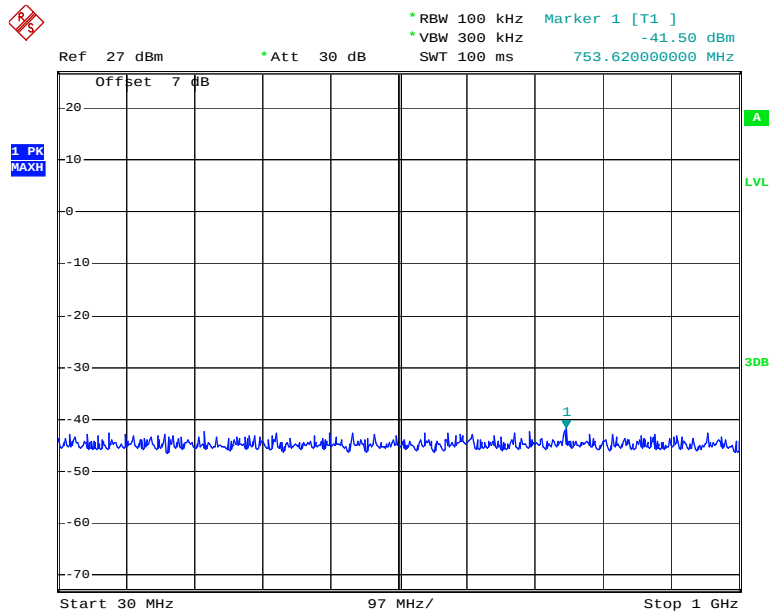
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Antenna0 802.11n ht40 Low Channel 26.5MHz-40GHz



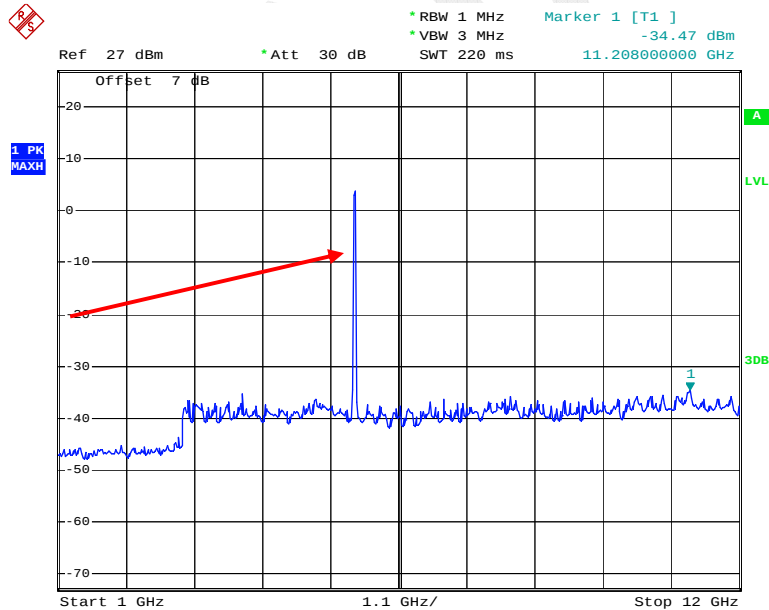
Date: 18.NOV.2014 15:38:06

Antenna0 802.11n ht40 High Channel 30 MHz-1GHz



Date: 18.NOV.2014 13:53:15

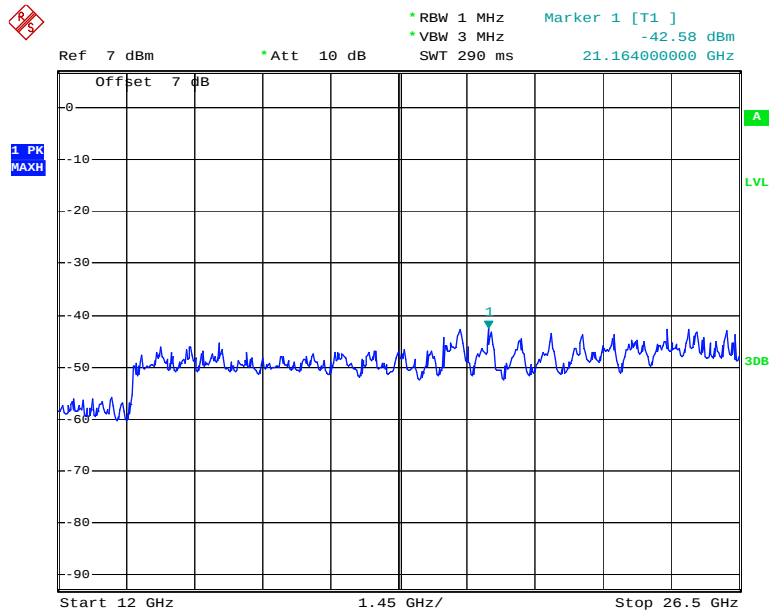
Antenna0 802.11n ht40 High Channel 1GHz-12GHz



Fundamental

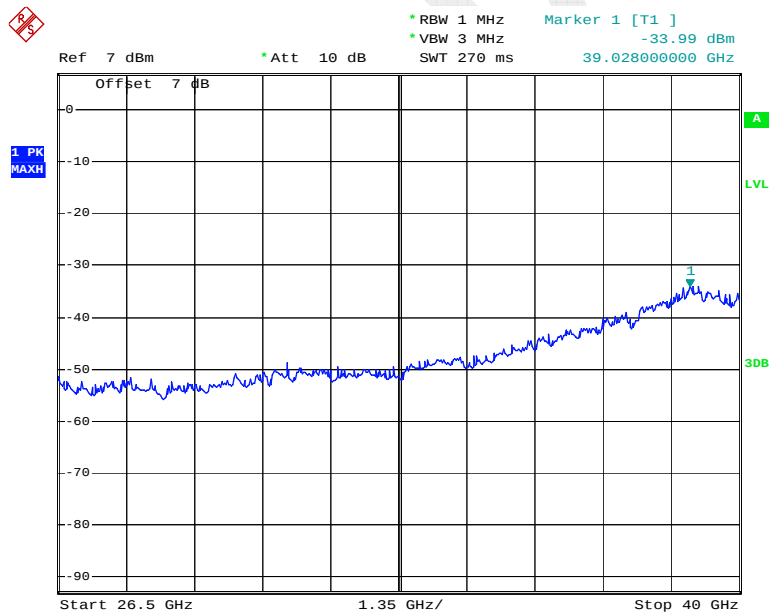
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Antenna0 802.11n ht40 High Channel 12 GHz-26.5GHz



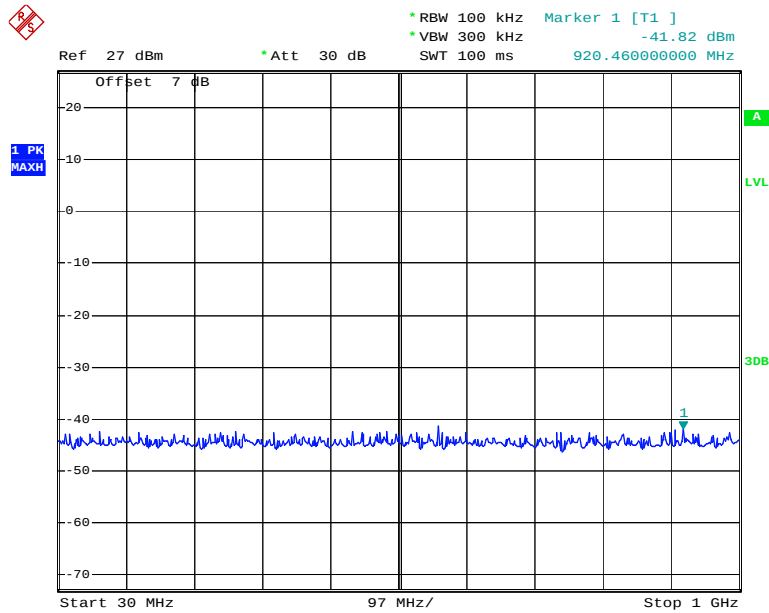
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Antenna0 802.11n ht40 High Channel 26.5GHz-40GHz



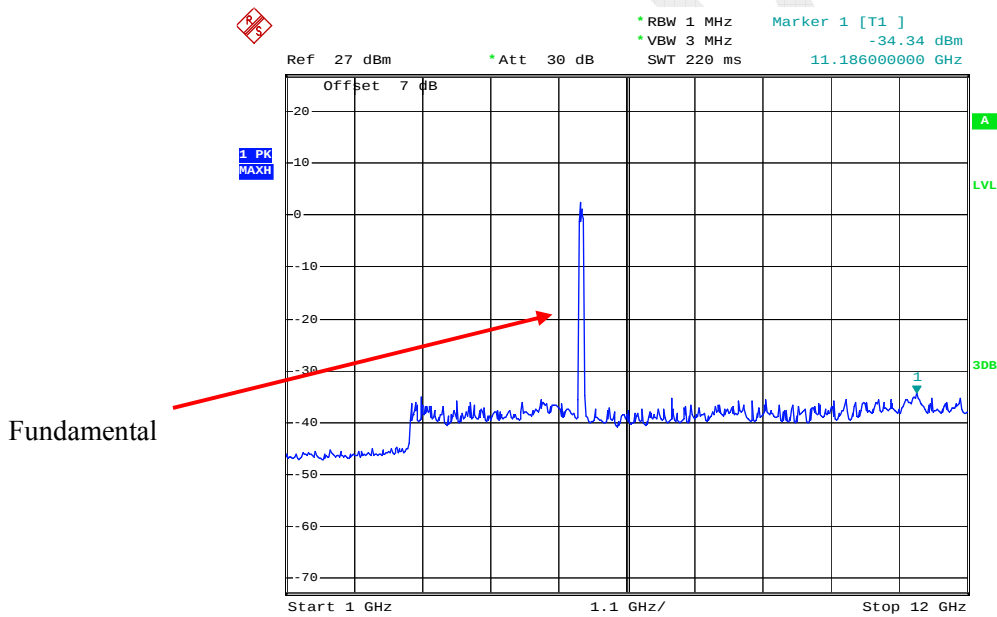
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Antenna0 802.11n ac80 30 MHz-1GHz



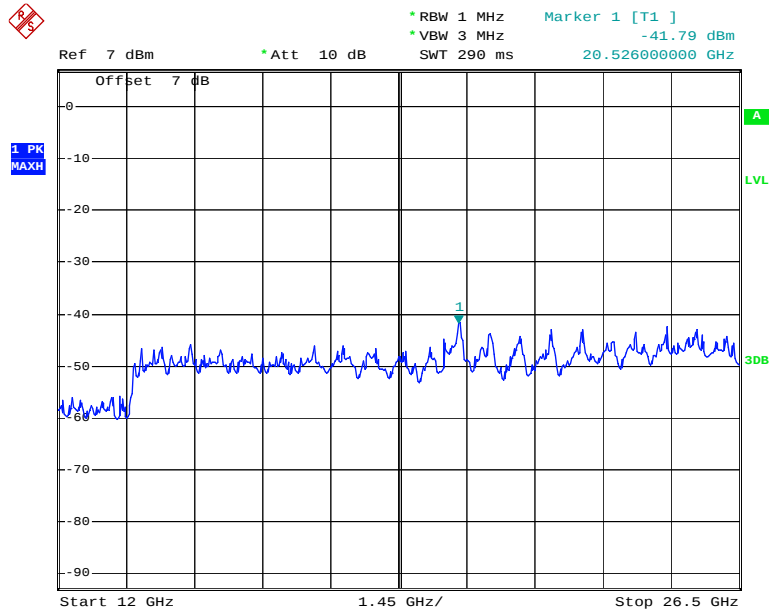
Date: 18.NOV.2014 13:50:26

Antenna0 802.11n ac80 1 GHz-12GHz



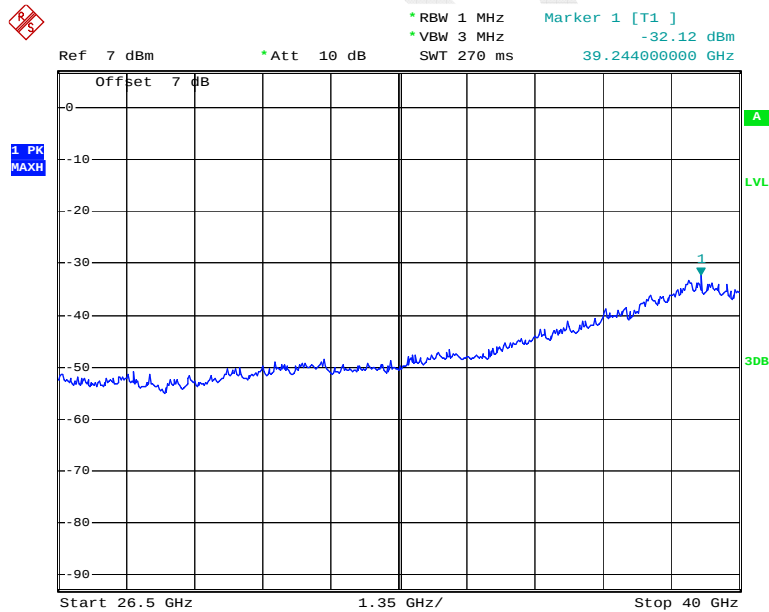
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Antenna0 802.11n ac80 12 GHz-26.5GHz



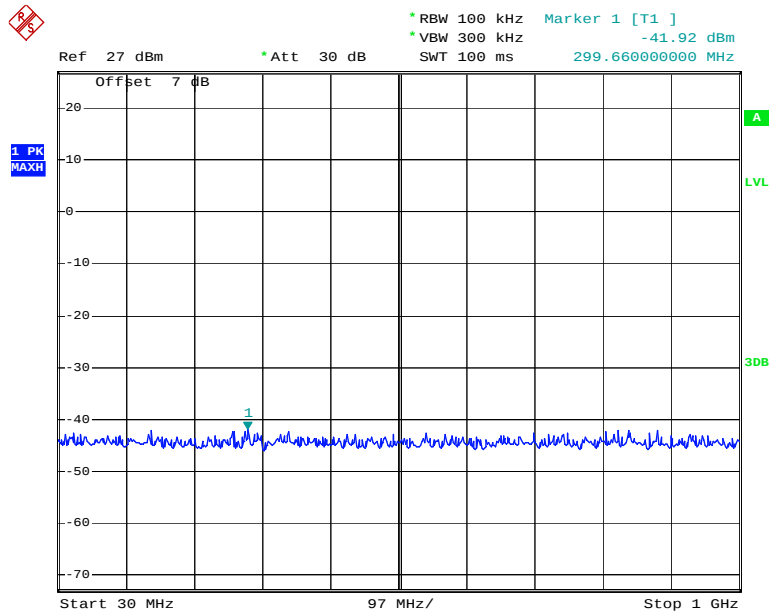
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Antenna0 802.11n ac80 26.5GHz-40GHz



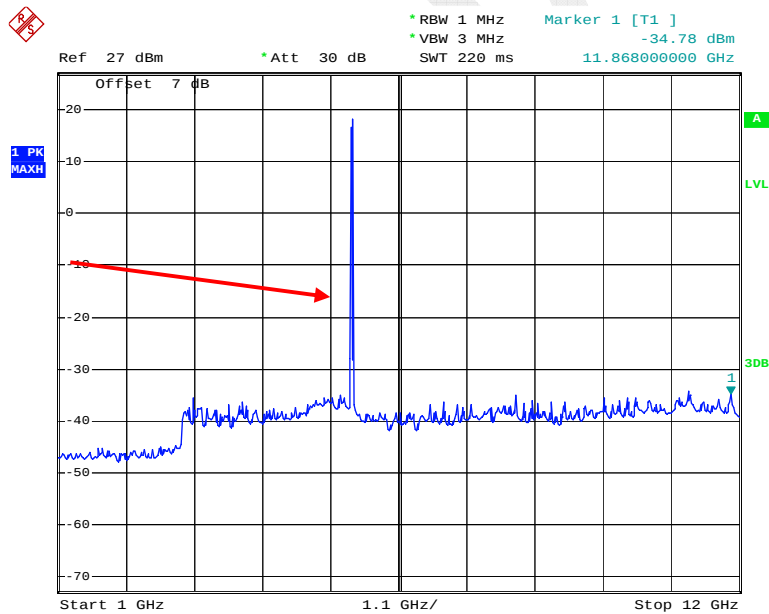
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Antenna1 802.11a Low Channel 30MHz-1GHz



Date: 17.NOV.2014 23:28:38

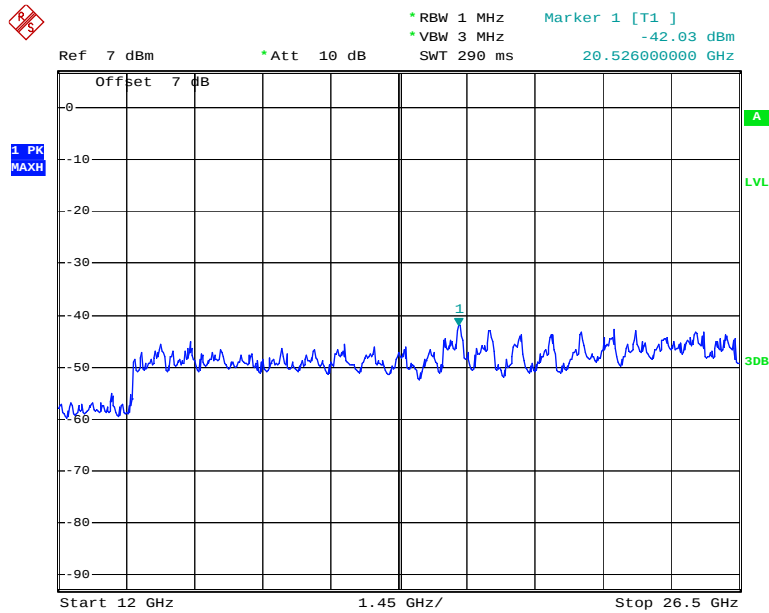
Antenna1 802.11a Low Channel 1GHz-12GHz



Fundamental

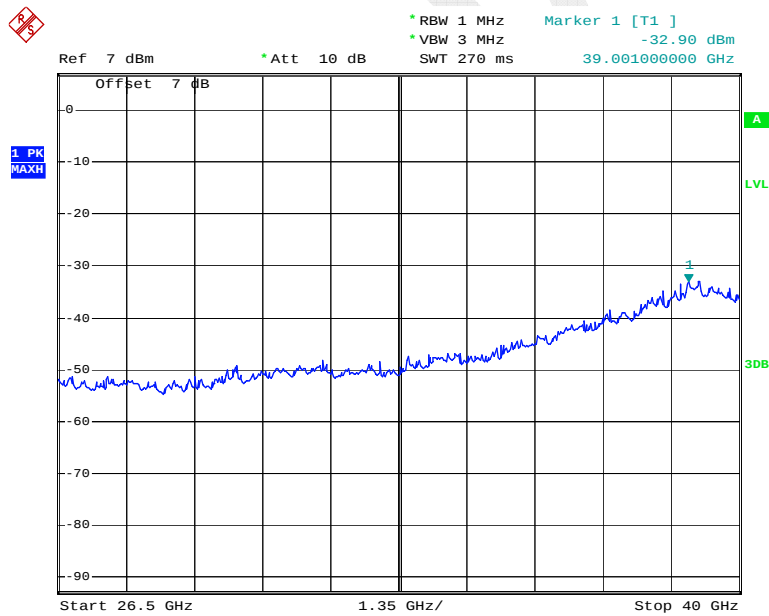
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Antenna1 802.11a Low Channel 12GHz-26.5GHz



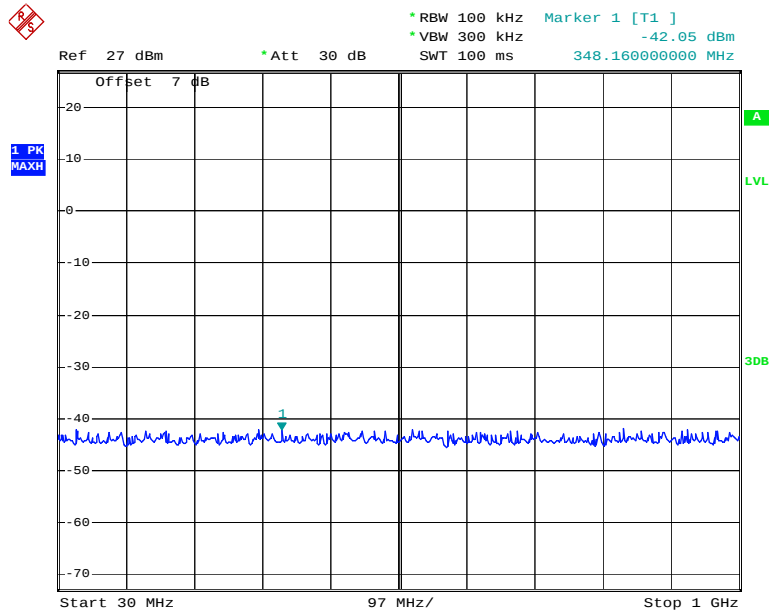
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Antenna1 802.11a Low Channel 26.5GHz-40GHz



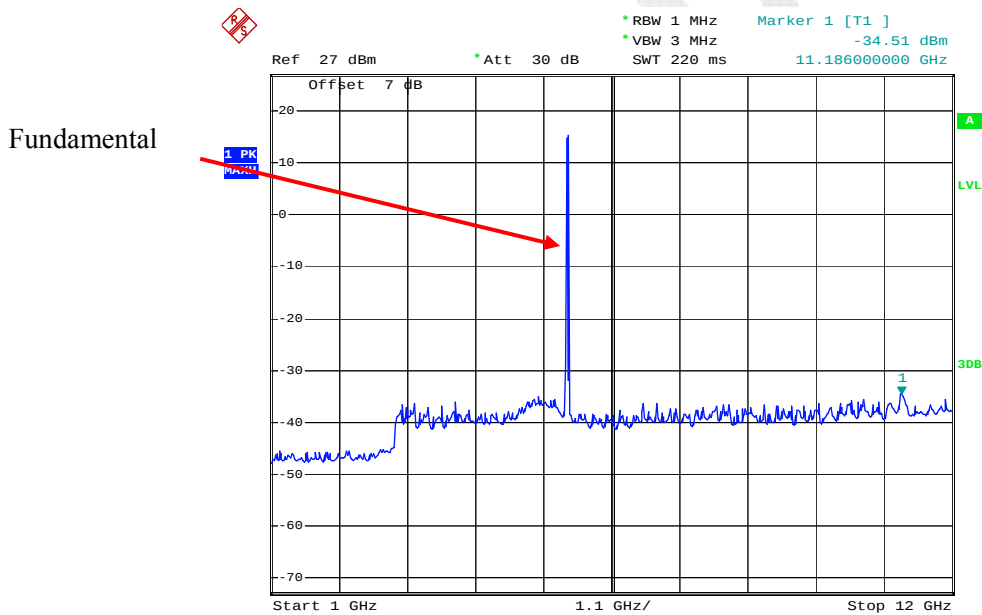
Date: 17.NOV.2014 22:47:56

Antenna1 802.11a Middle Channel 30MHz-1GHz



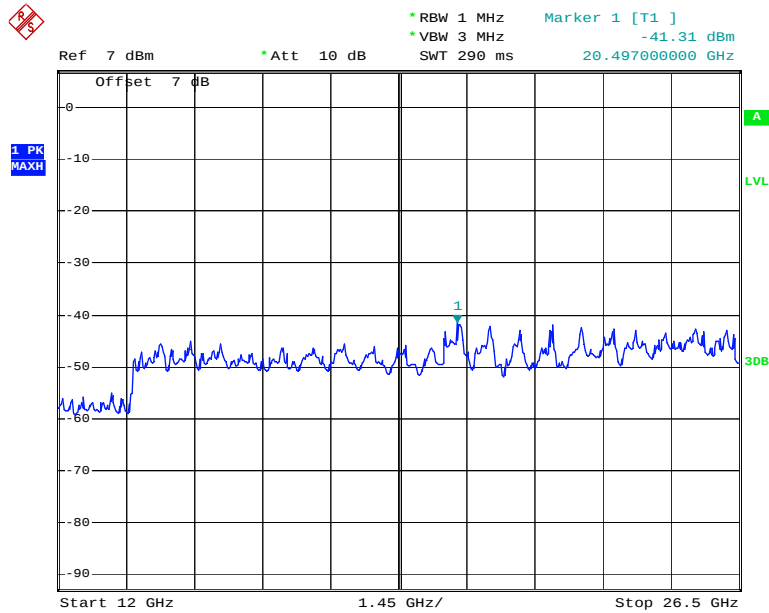
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Antenna1 802.11a Middle Channel 1GHz-12GHz



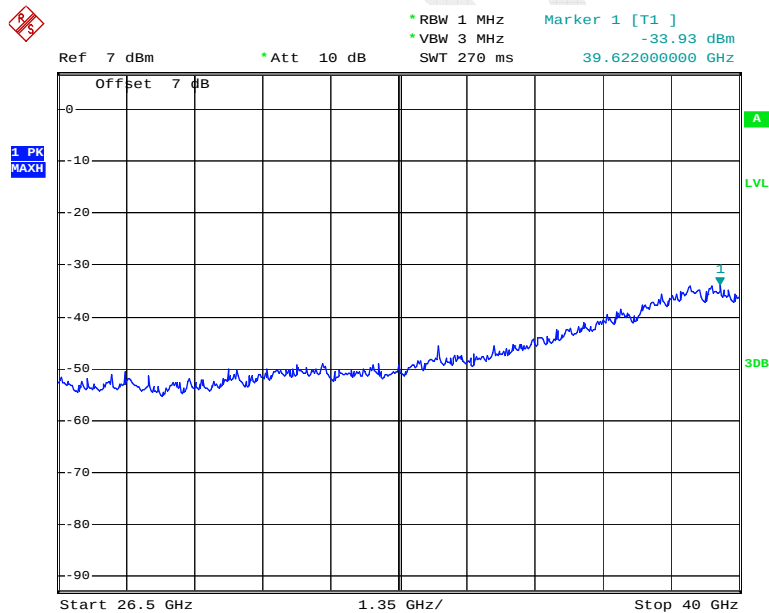
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Antenna1 802.11a Middle Channel 12GHz -26.5GHz



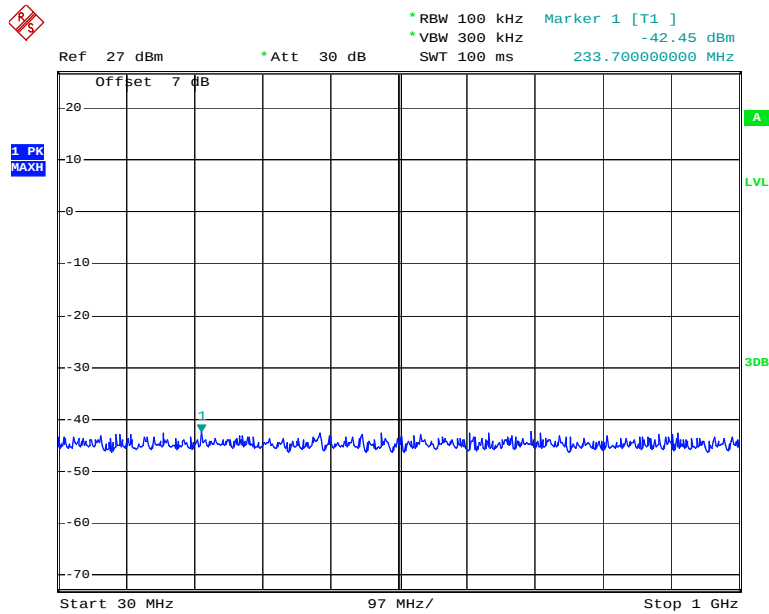
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Antenna1 802.11a Middle Channel 26.5GHz-40GHz



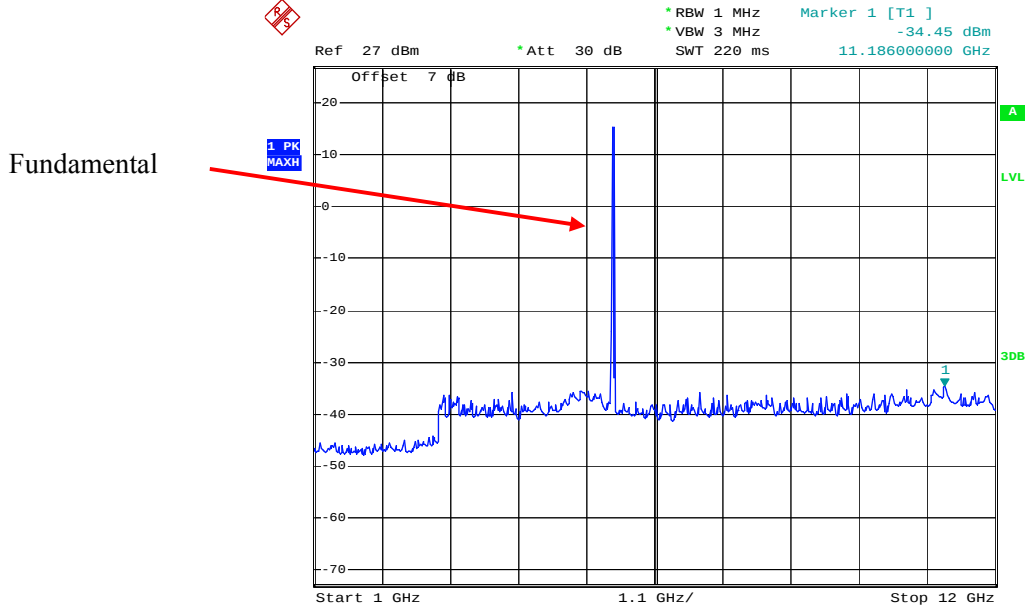
Date: 17.NOV.2014 22:50:08

Antenna1 802.11a High Channel 30MHz-1GHz



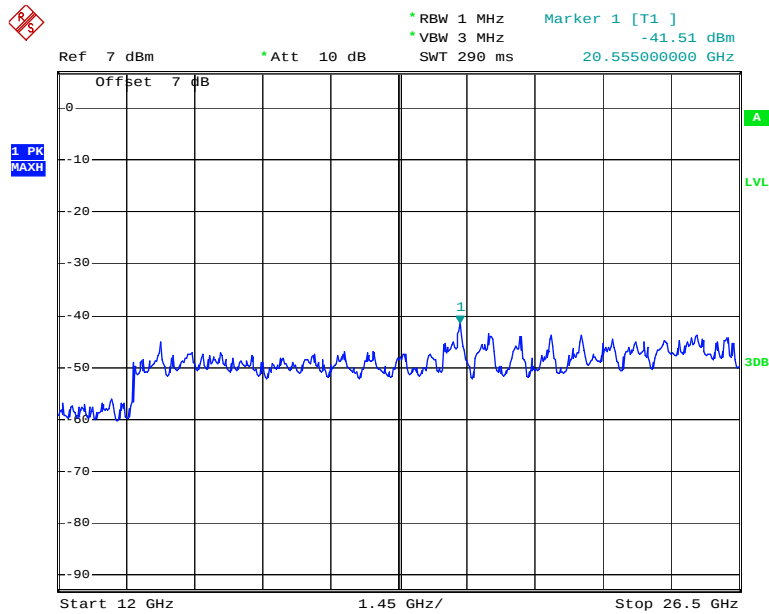
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Antenna1 802.11a High Channel 1GHz-12GHz



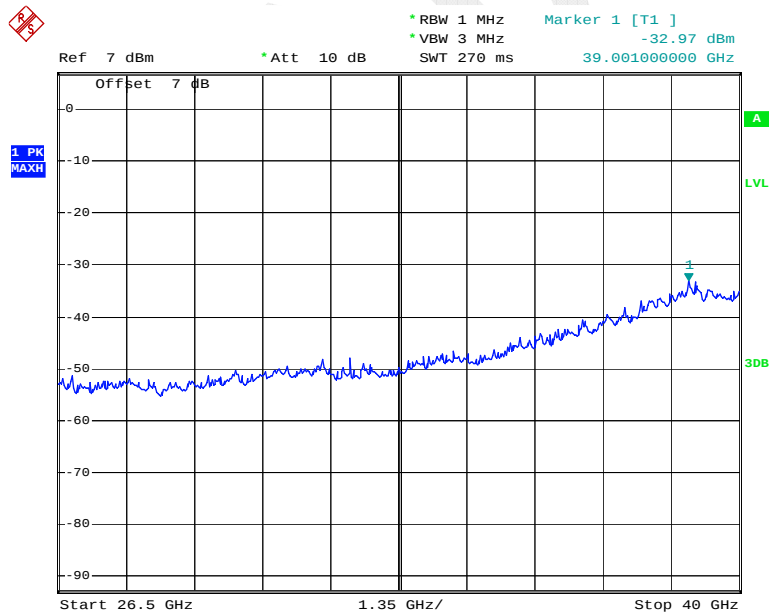
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Antenna1 802.11a High Channel 12GHz-26.5GHz



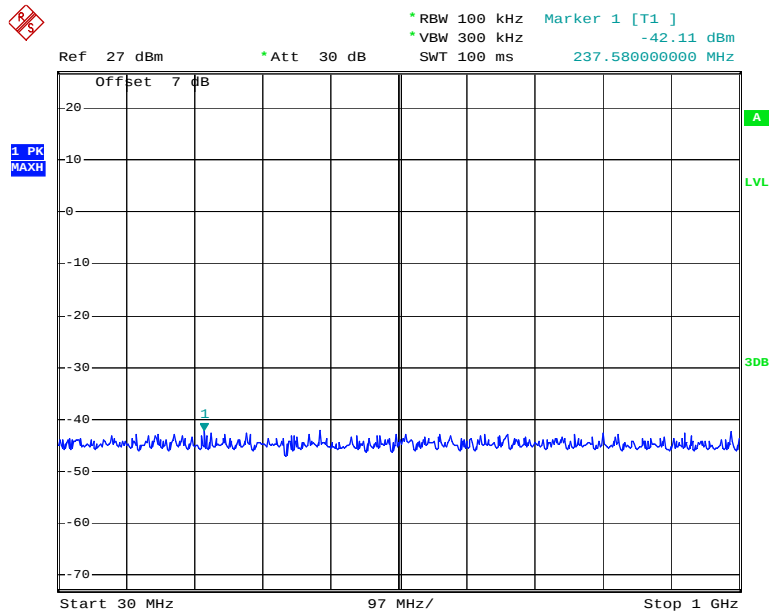
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Antenna1 802.11a High Channel 26.5GHz-40GHz



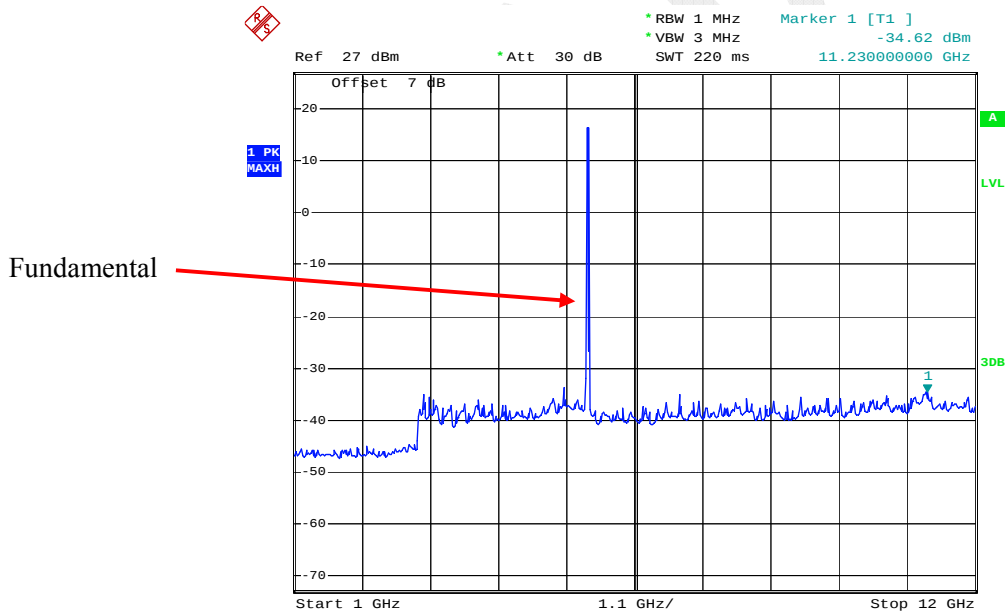
Date: 17.NOV.2014 22:51:18

Antenna1 802.11n ht20 Low Channel 30 MHz-1GHz



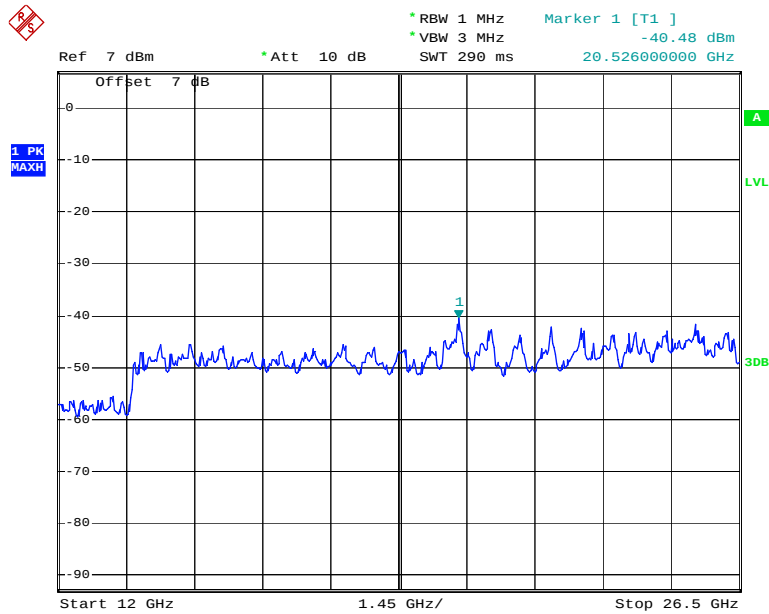
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Antenna1 802.11n ht20 Low Channel 1GHz-12GHz



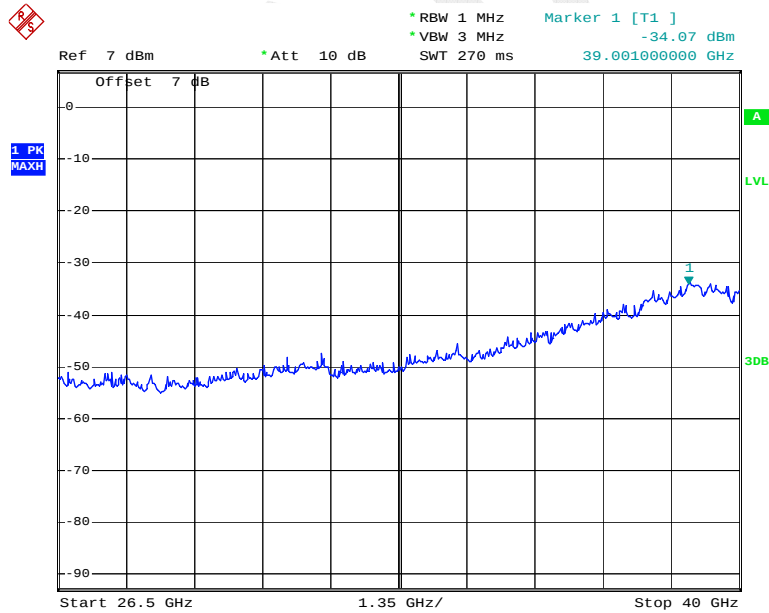
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Antenna1 802.11n ht20 Low Channel 12GHz-26.5GHz



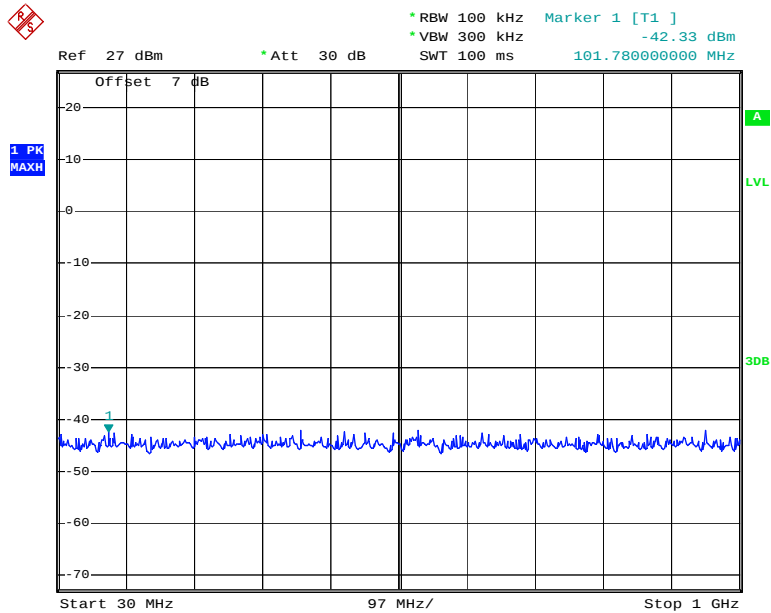
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Antenna1 802.11n ht20 Low Channel 26.5 GHz-40GHz



Date: 17.NOV.2014 22:52:30

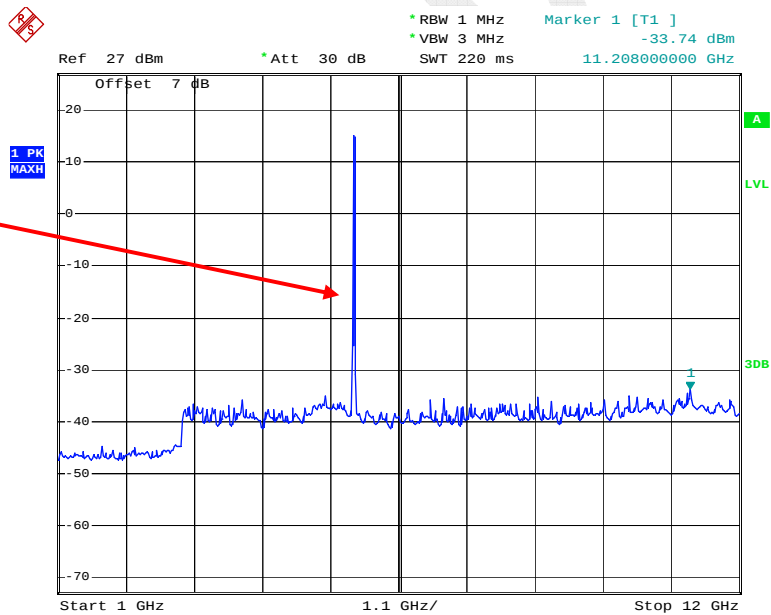
Antenna1 802.11n ht20 Middle Channel 30 MHz-1GHz



Date: 17.NOV.2014 23:33:36

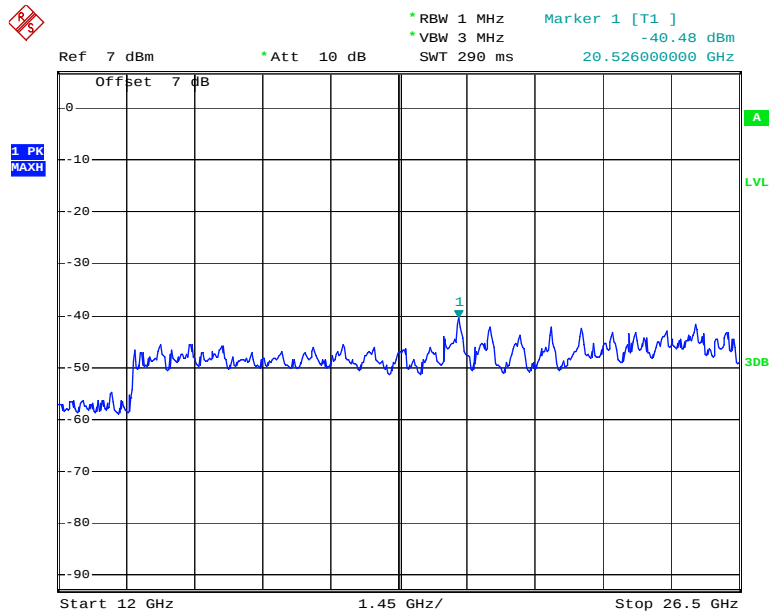
Antenna1 802.11n ht20 Middle Channel 1GHz-12GHz

Fundamental



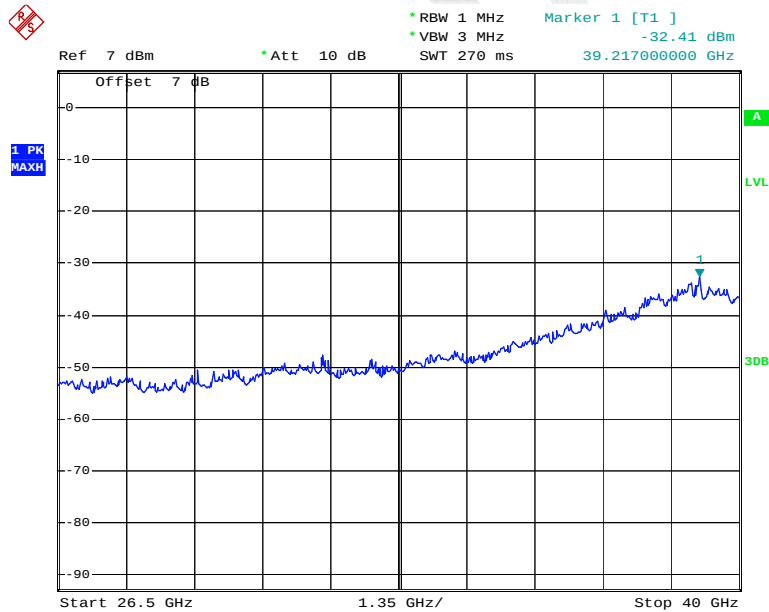
Date: 17.NOV.2014 23:24:14

Antenna1 802.11n ht20 Middle Channel 12 GHz-26.5GHz



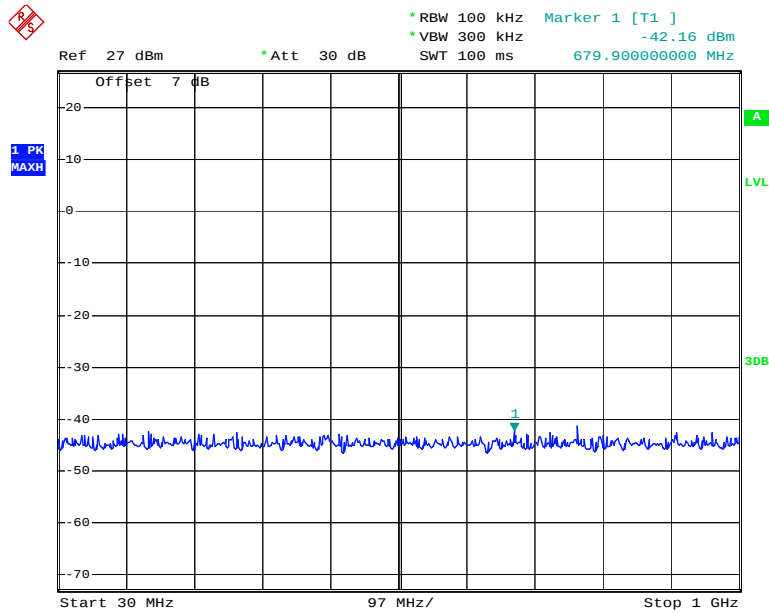
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Antenna1 802.11n ht20 Middle Channel 26.5GHz -40GHz



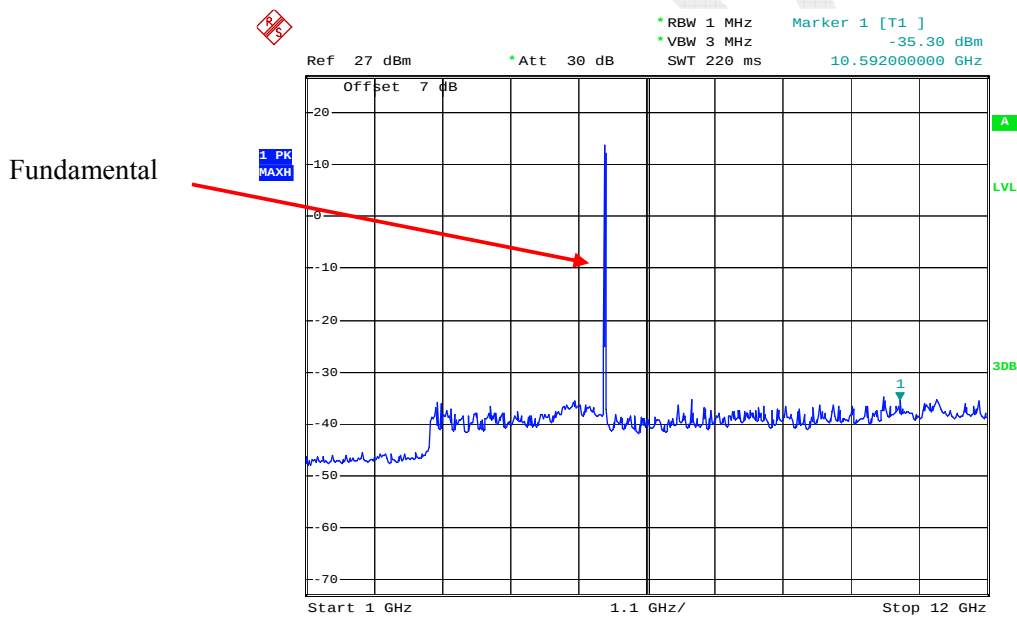
Date: 17.NOV.2014 22:53:40

Antenna1 802.11n ht20 High Channel 30MHz-1GHz

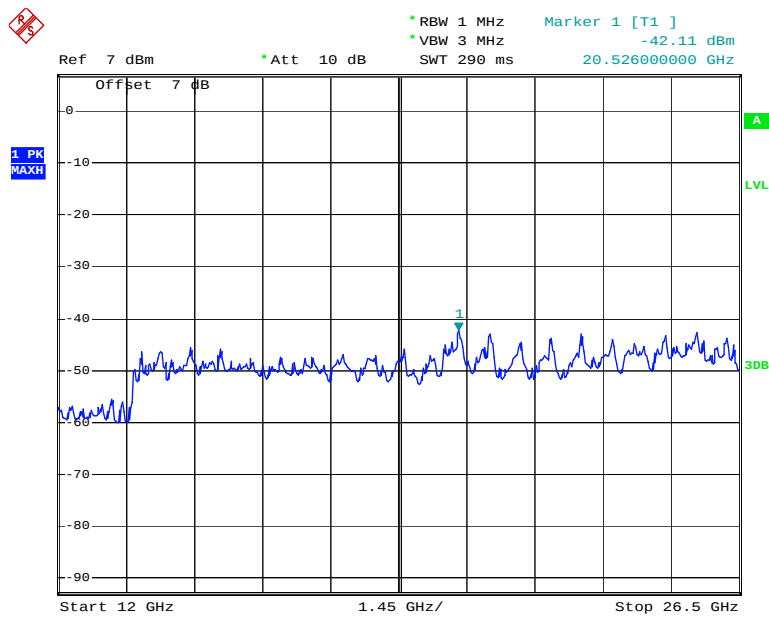


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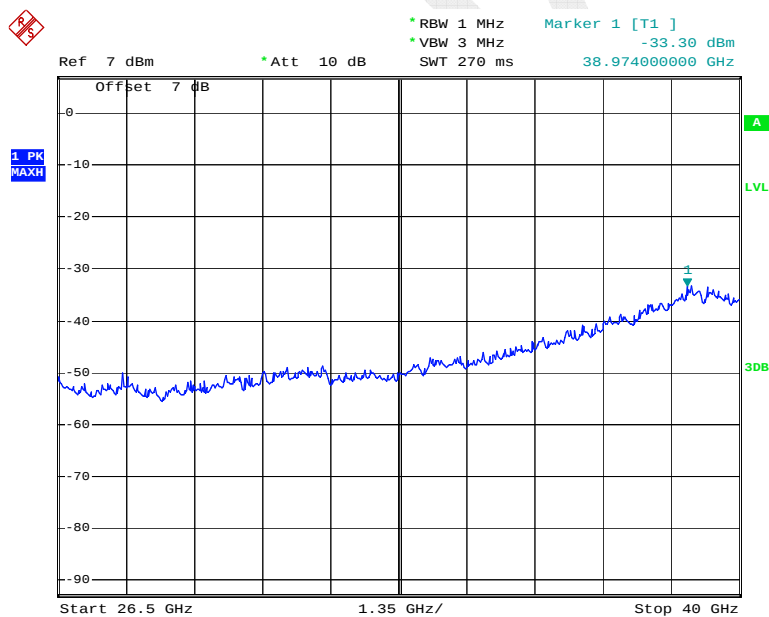
Antenna1 802.11n ht20 High Channel 1GHz-12GHz



Date: 17.NOV.2014 23:24:34

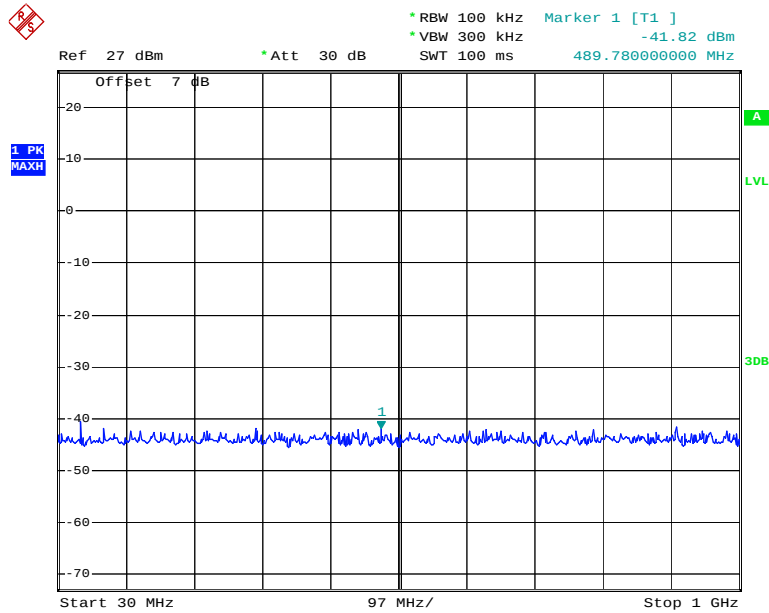
Antenna1 802.11n ht20 High Channel 12GHz-26.5GHz

Date: 17.NOV.2014 23:09:01

Antenna1 802.11n ht20 High Channel 26.5GHz-40GHz

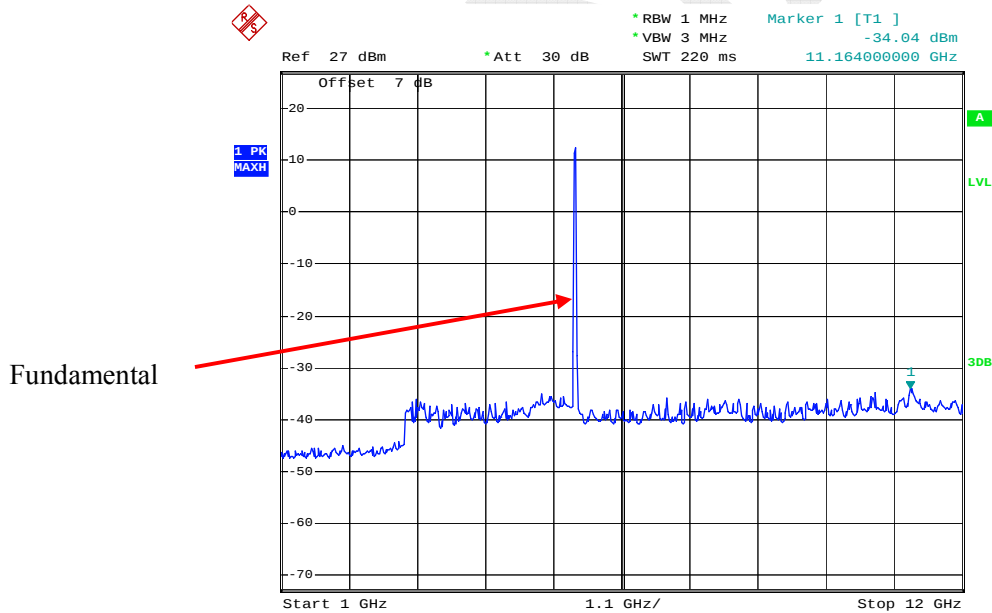
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Antenna1 802.11n ht40 Low Channel 30MHz-1GHz



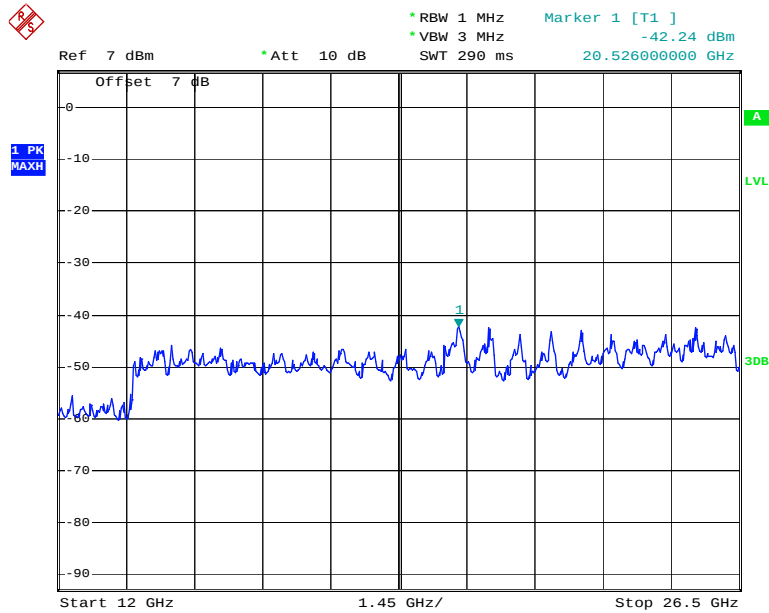
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Antenna1 802.11n ht40 Low Channel 1GHz-12GHz



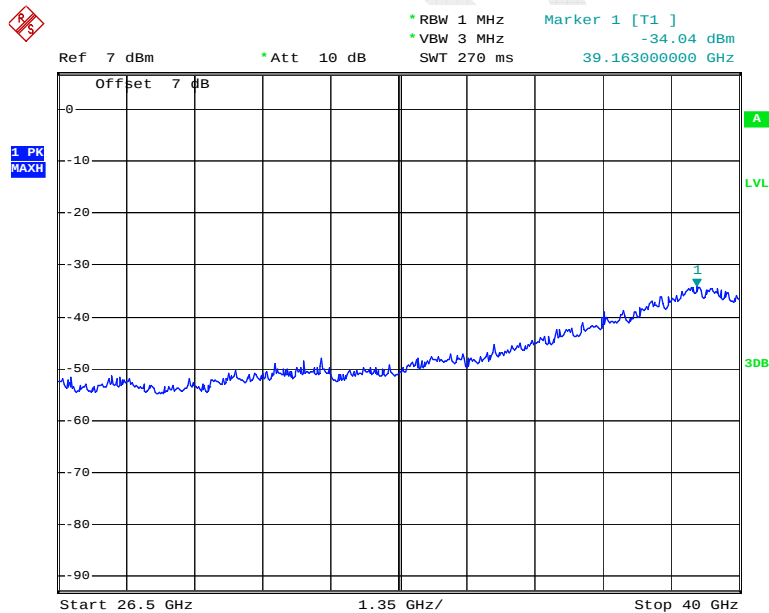
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Antenna1 802.11n ht40 Low Channel12GHz-26.5GHz



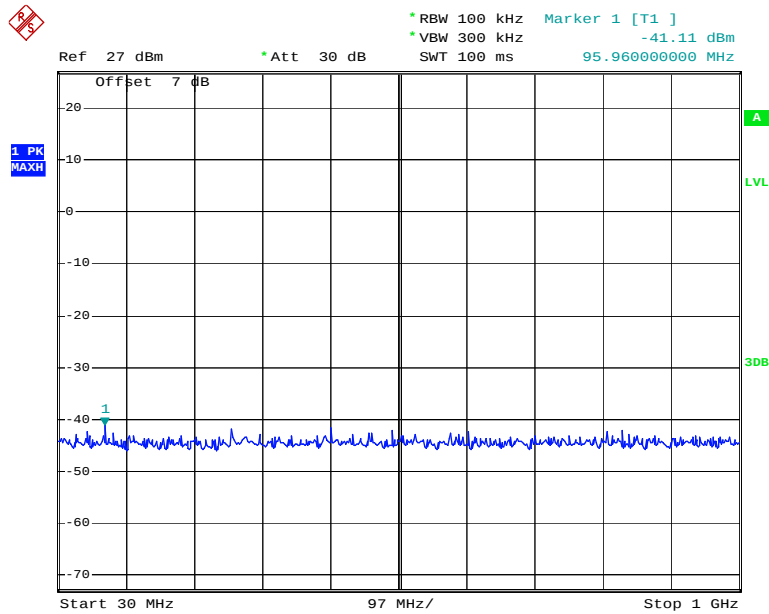
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Antenna1 802.11n ht40 Low Channel 26.5MHz-40GHz



Date: 17.NOV.2014 22:57:02

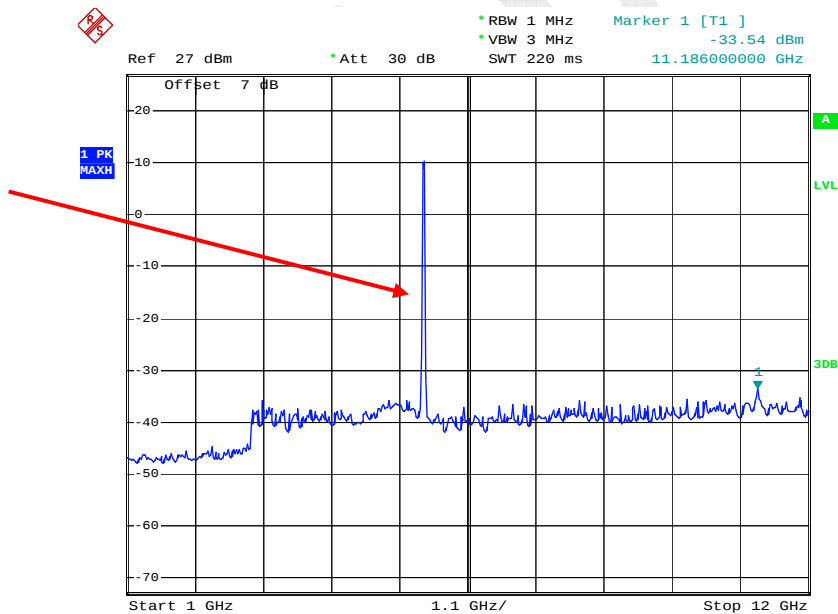
Antenna1 802.11n ht40 High Channel 30 MHz-1GHz



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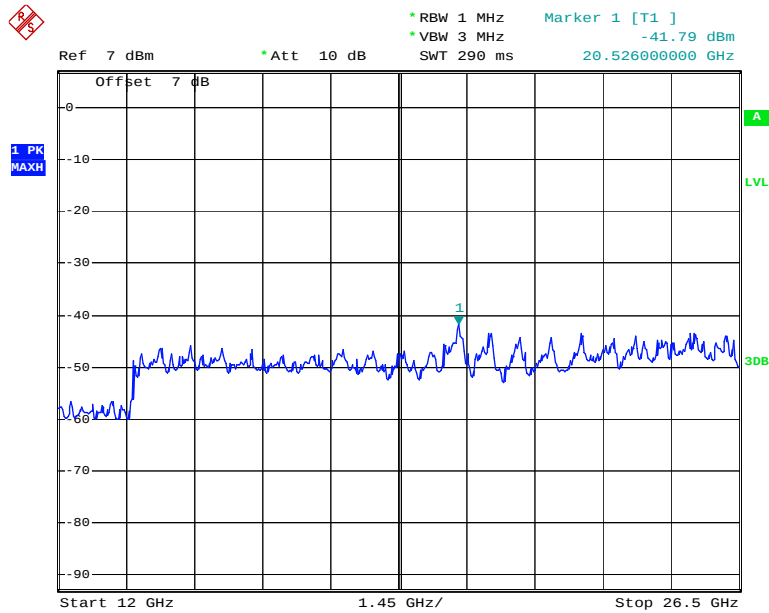
Antenna1 802.11n ht40 High Channel 1GHz-12GHz

Fundamental



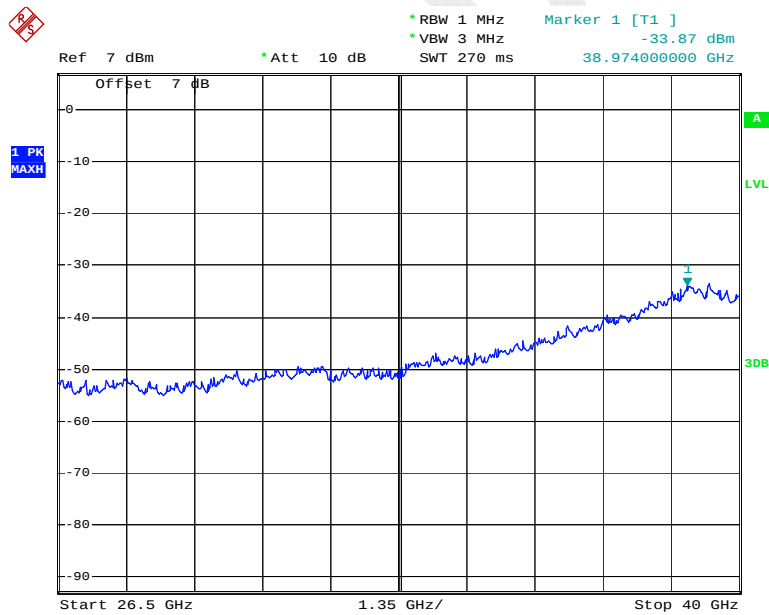
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Antenna1 802.11n ht40 High Channel 12 GHz-26.5GHz



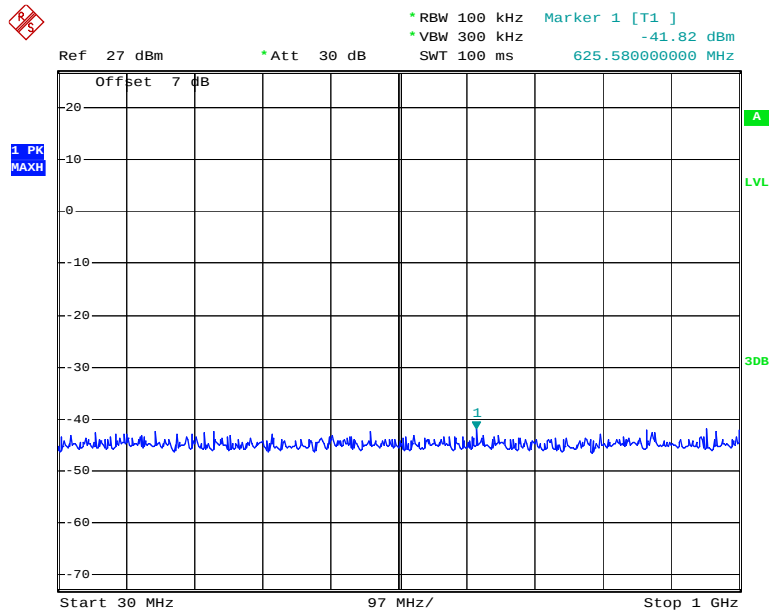
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Antenna1 802.11n ht40 High Channel 26.5GHz-40GHz



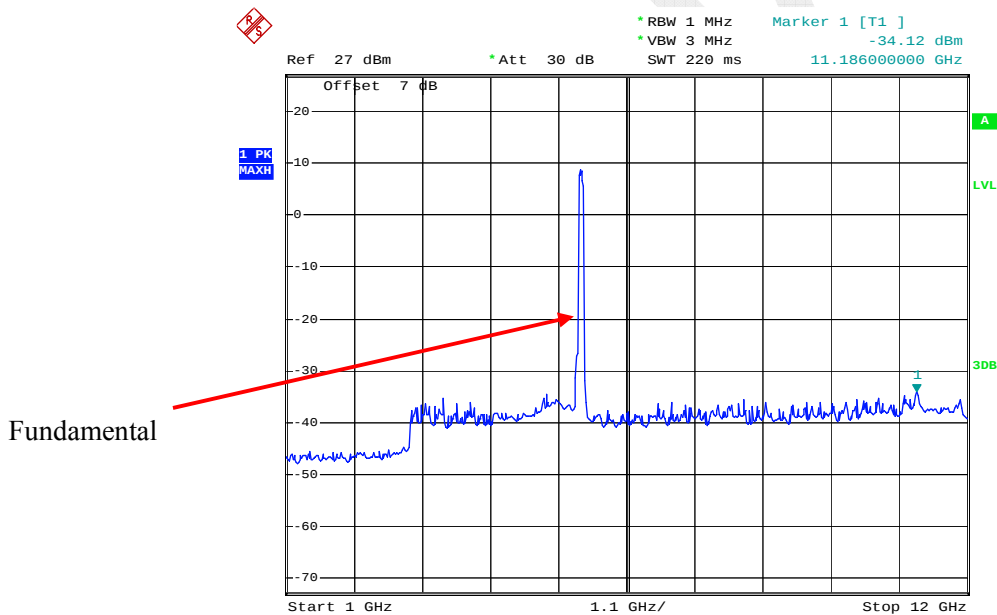
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Antenna1 802.11n ac80 30 MHz-1GHz



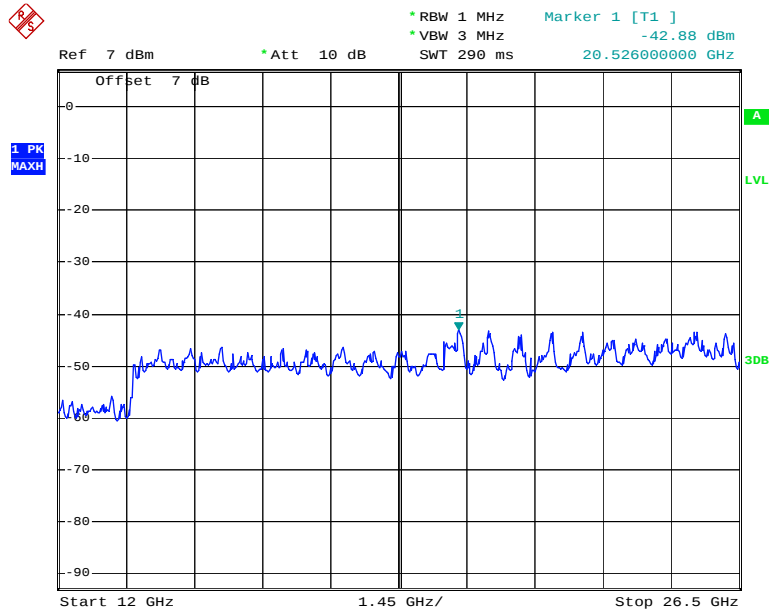
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Antenna1 802.11n ac80 1 GHz-12GHz



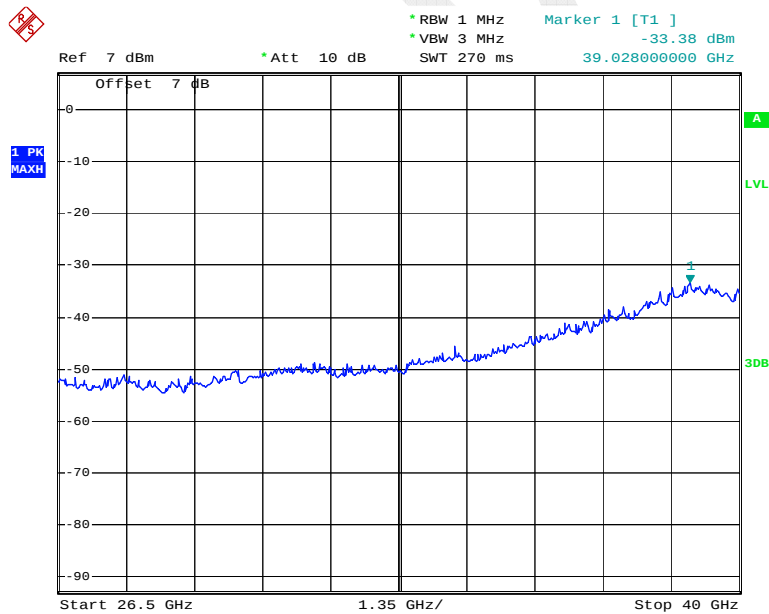
Date: 17.NOV.2014 23:27:50

Antenna1 802.11n ac80 12 GHz-26.5GHz



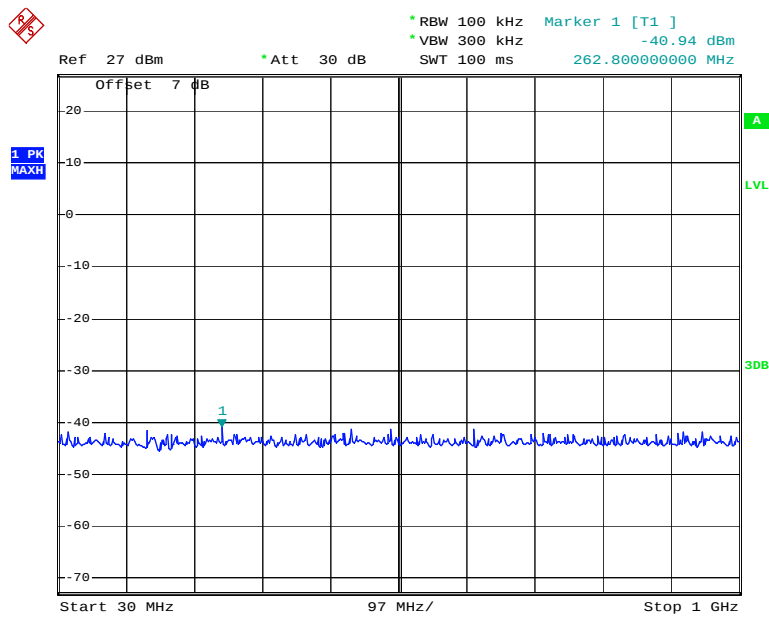
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Antenna1 802.11n ac80 26.5GHz-40GHz



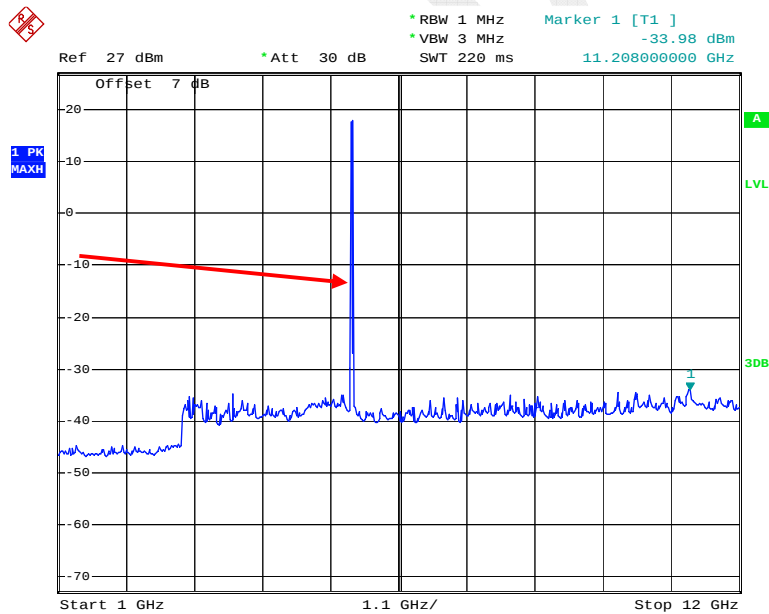
Date: 17.NOV.2014 22:59:36

Antenna2 802.11a Low Channel 30MHz-1GHz



Date: 17.NOV.2014 14:46:37

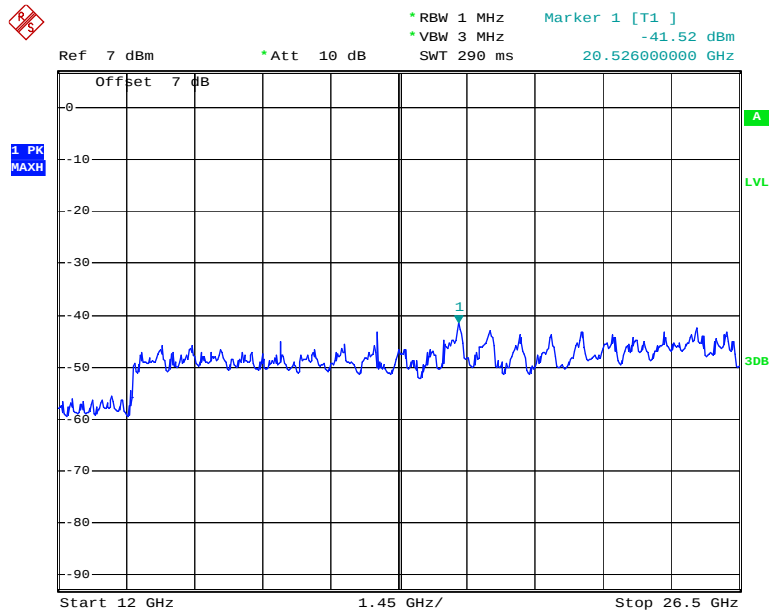
Antenna2 802.11a Low Channel 1GHz-12GHz



Fundamental

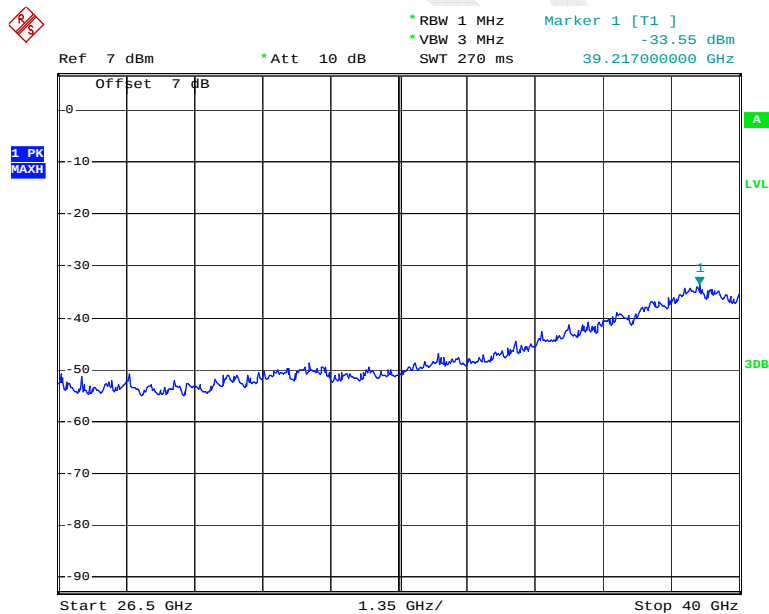
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Antenna2 802.11a Low Channel 12GHz-26.5GHz



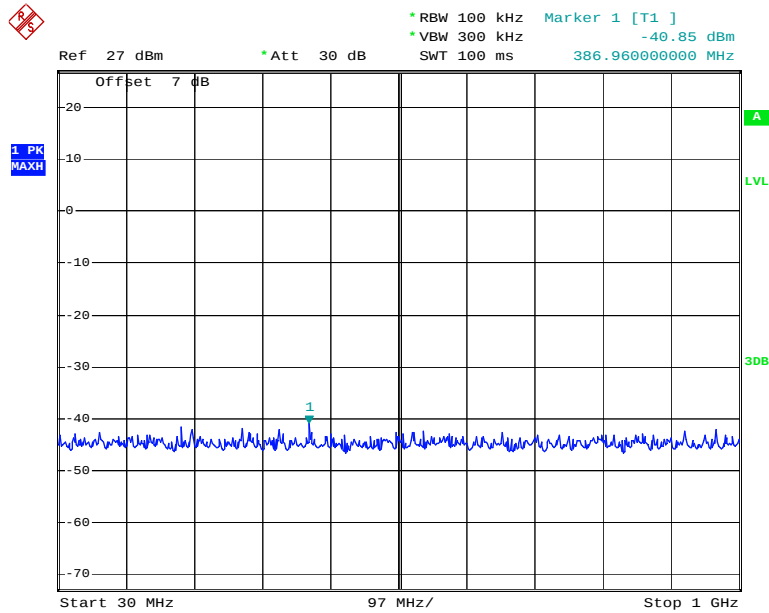
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Antenna2 802.11a Low Channel 26.5GHz-40GHz



Date: 17.NOV.2014 14:57:47

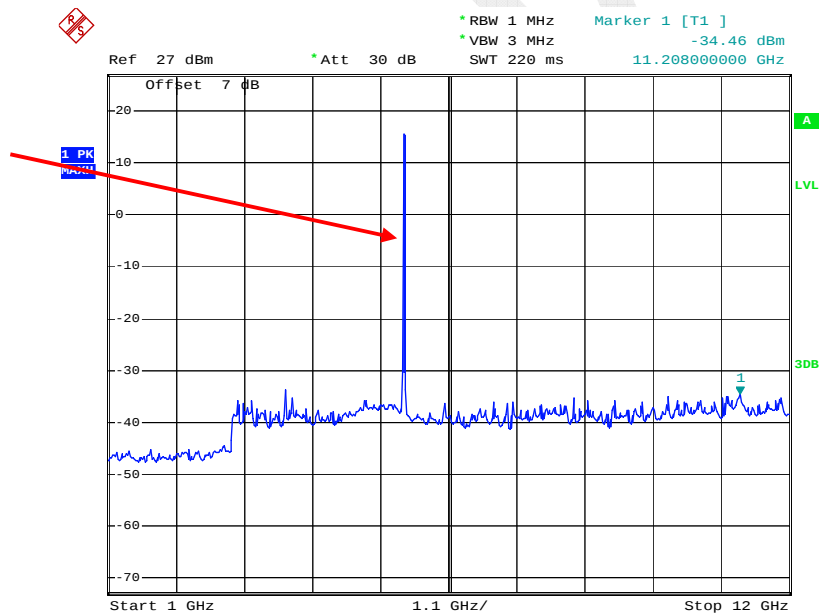
Antenna2 802.11a Middle Channel 30MHz-1GHz



Date: 17.NOV.2014 14:47:47

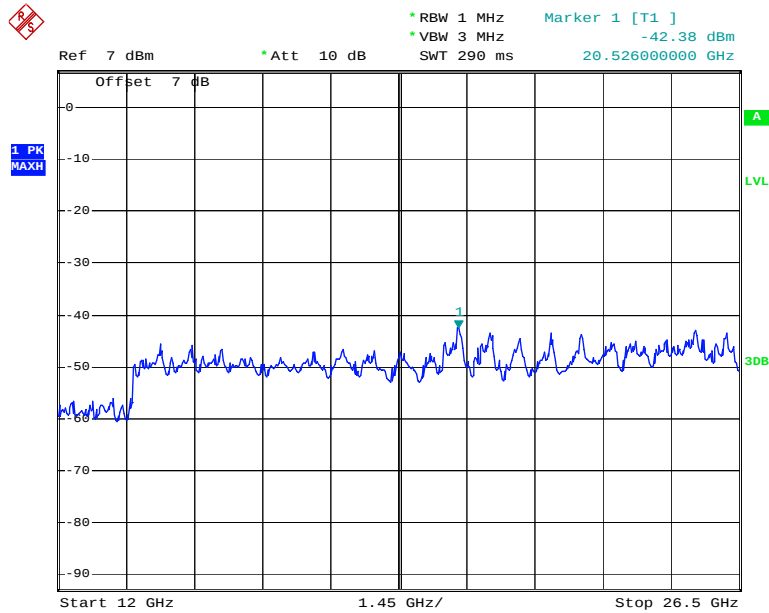
Antenna2 802.11a Middle Channel 1GHz-12GHz

Fundamental



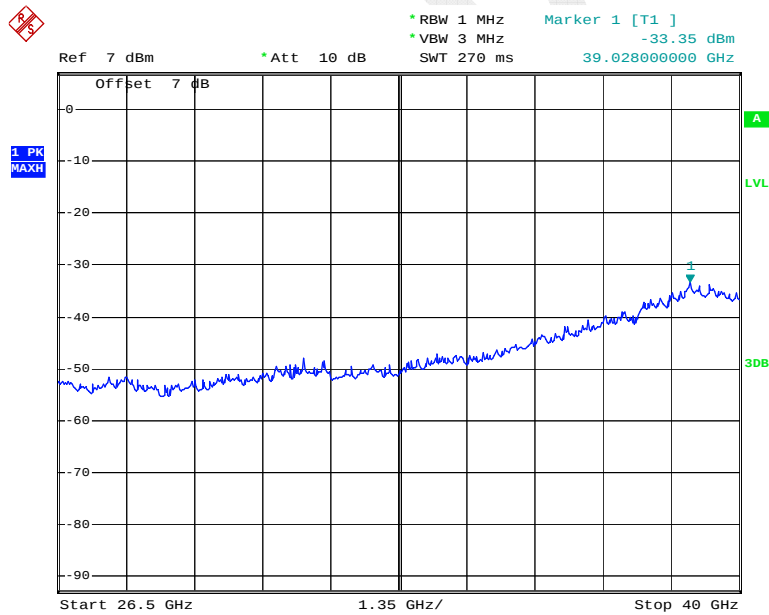
Date: 17.NOV.2014 14:51:11

Antenna2 802.11a Middle Channel 12GHz -26.5GHz



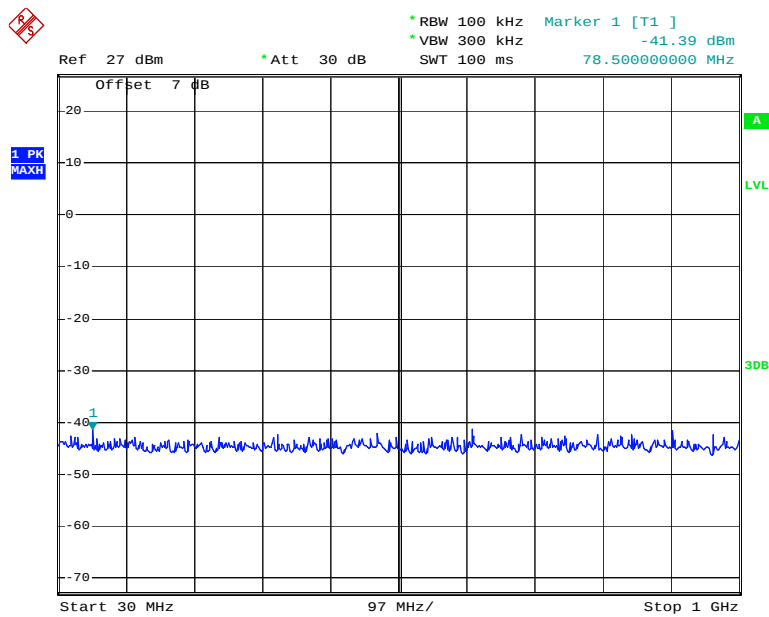
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Antenna2 802.11a Middle Channel 26.5GHz-40GHz



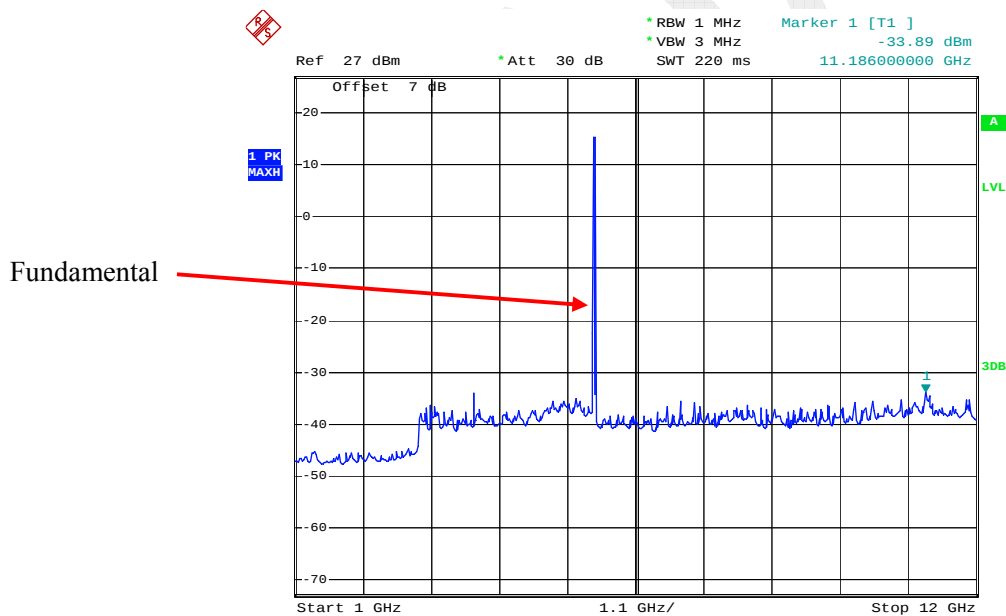
Date: 17.NOV.2014 14:59:01

Antenna2 802.11a High Channel 30MHz-1GHz



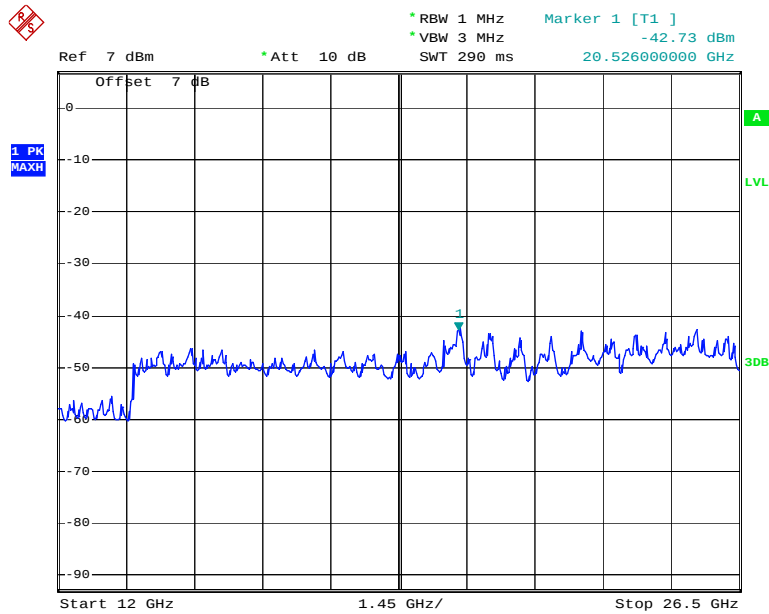
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Antenna2 802.11a High Channel 1GHz-12GHz



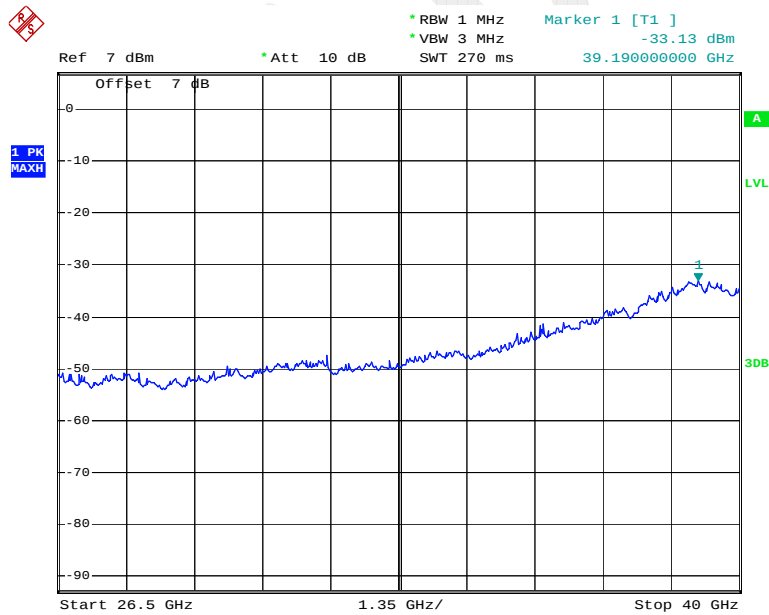
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Antenna2 802.11a High Channel 12GHz-26.5GHz



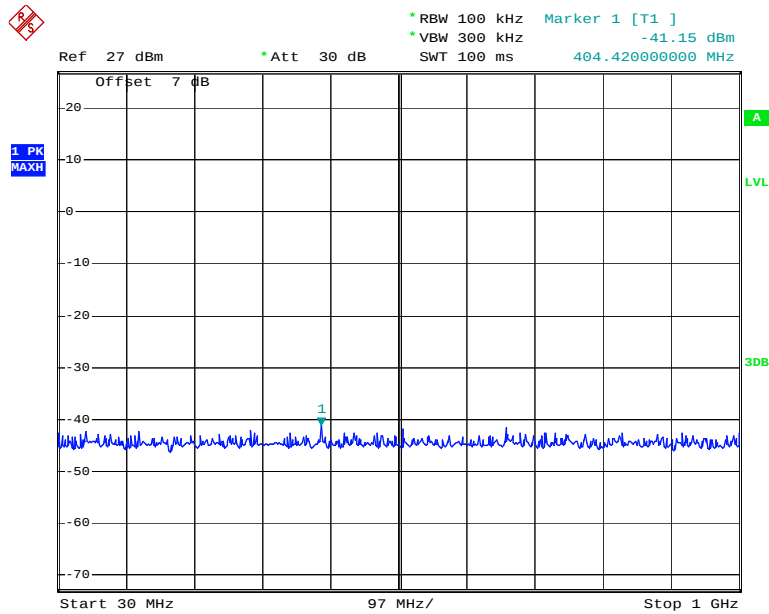
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Antenna2 802.11a High Channel 26.5GHz-40GHz



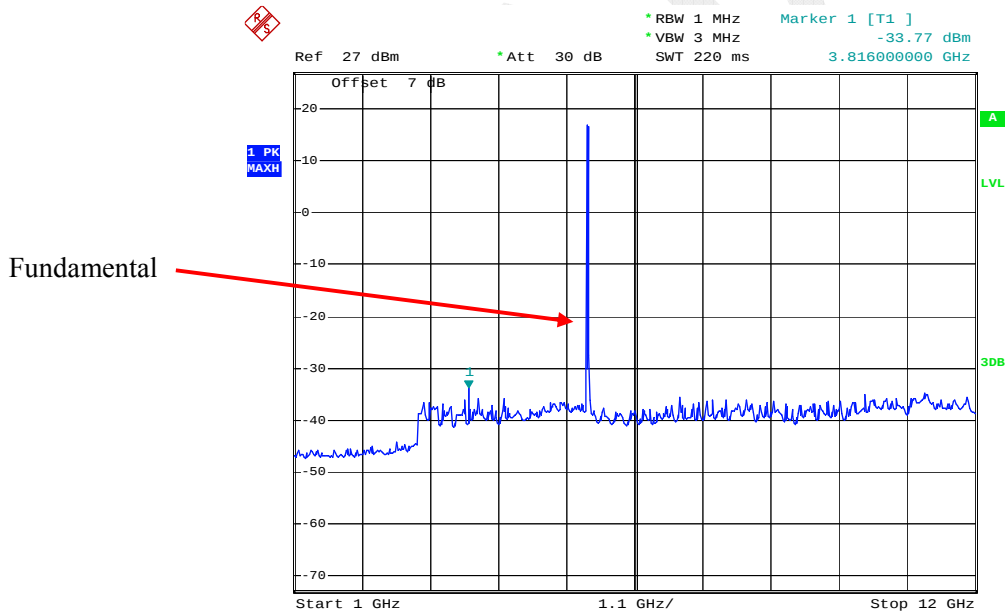
Date: 17.NOV.2014 14:59:55

Antenna2 802.11n ht20 Low Channel 30 MHz-1GHz



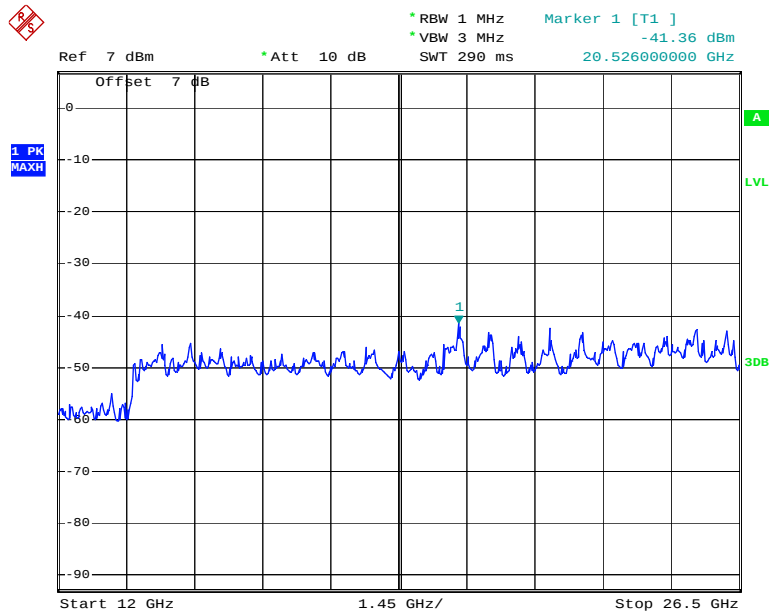
Date: 17.NOV.2014 15:00:14

Antenna2 802.11n ht20 Low Channel 1GHz-12GHz



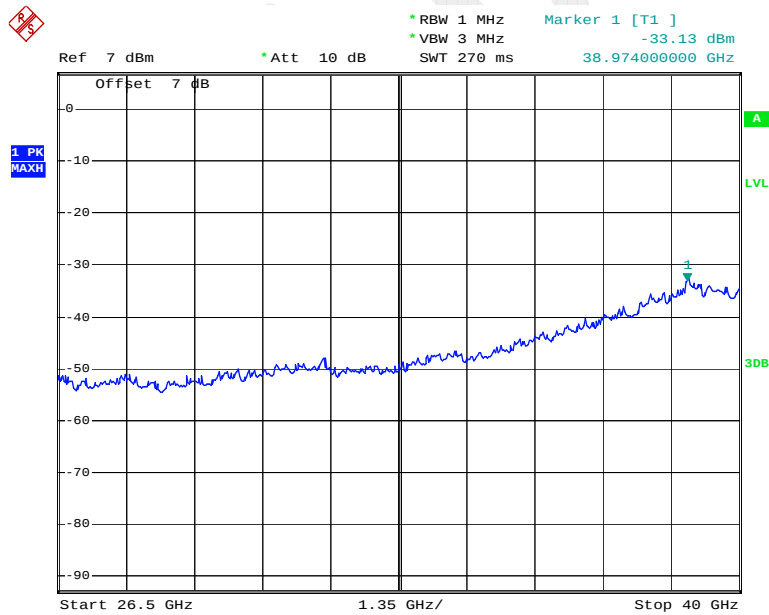
Date: 17.NOV.2014 14:05:23

Antenna2 802.11n ht20 Low Channel 12GHz-26.5GHz



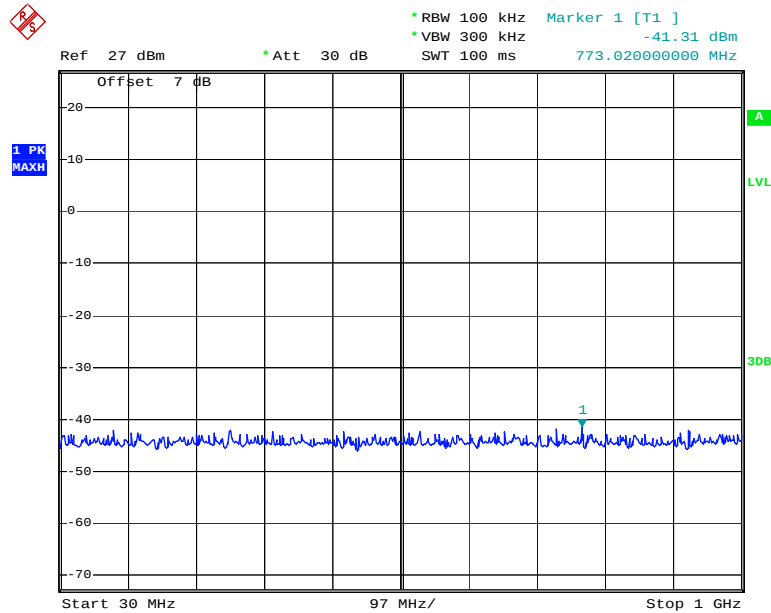
Date: 17.NOV.2014 15:08:36

Antenna2 802.11n ht20 Low Channel 26.5 GHz-40GHz



Date: 17.NOV.2014 15:11:11

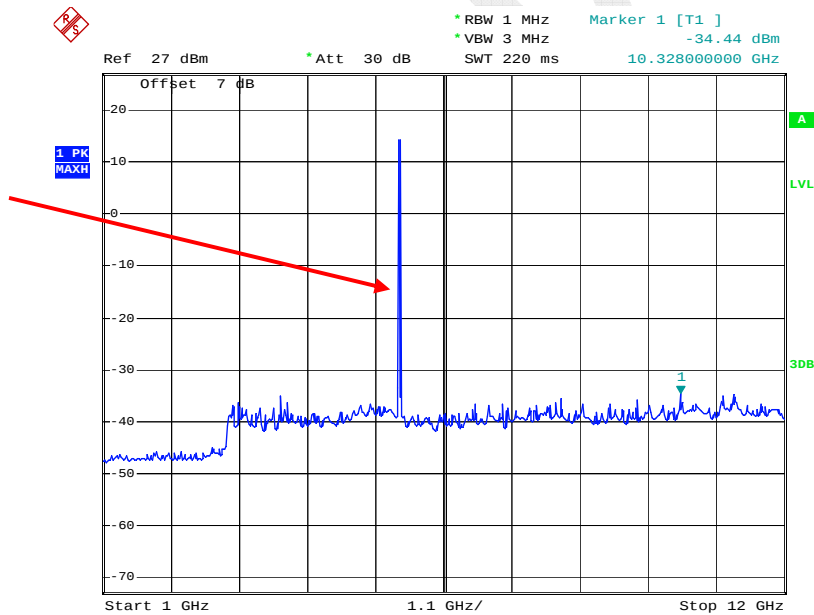
Antenna2 802.11n ht20 Middle Channel 30 MHz-1GHz



Date: 17.NOV.2014 15:01:28

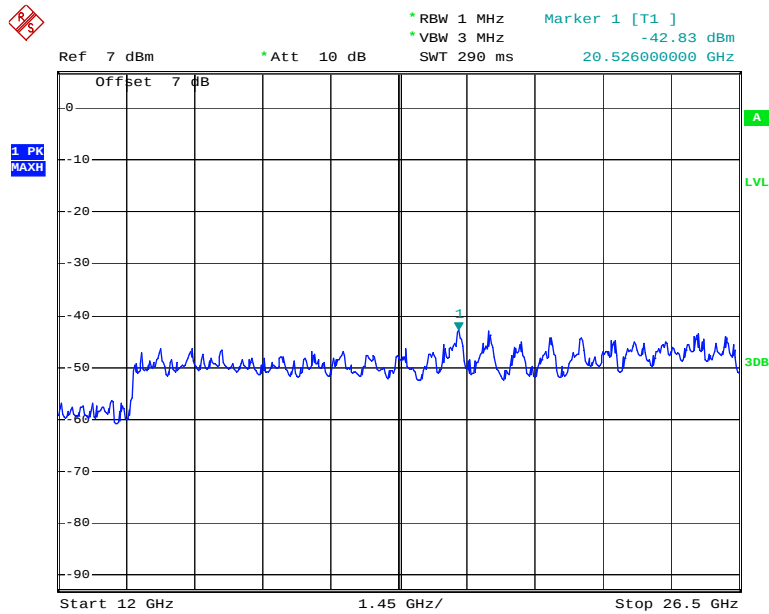
Antenna2 802.11n ht20 Middle Channel 1GHz-12GHz

Fundamental



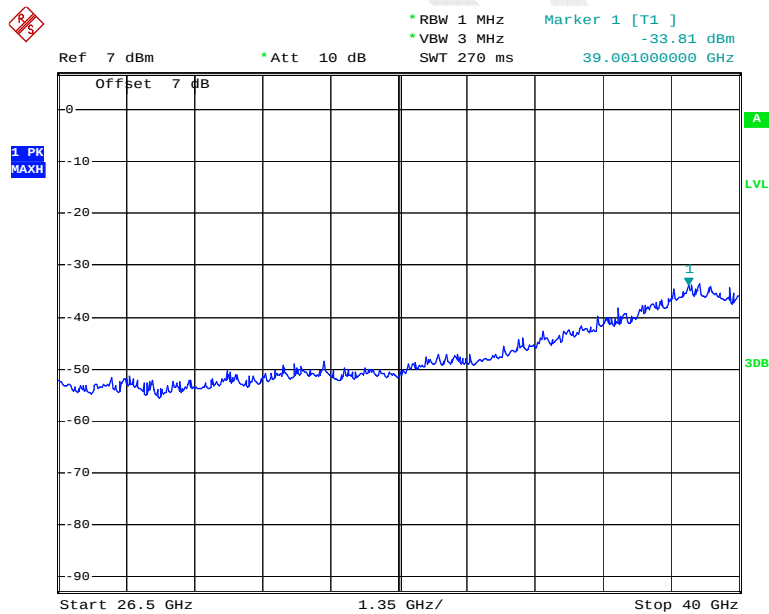
Date: 17.NOV.2014 14:05:49

Antenna2 802.11n ht20 Middle Channel 12 GHz-26.5GHz



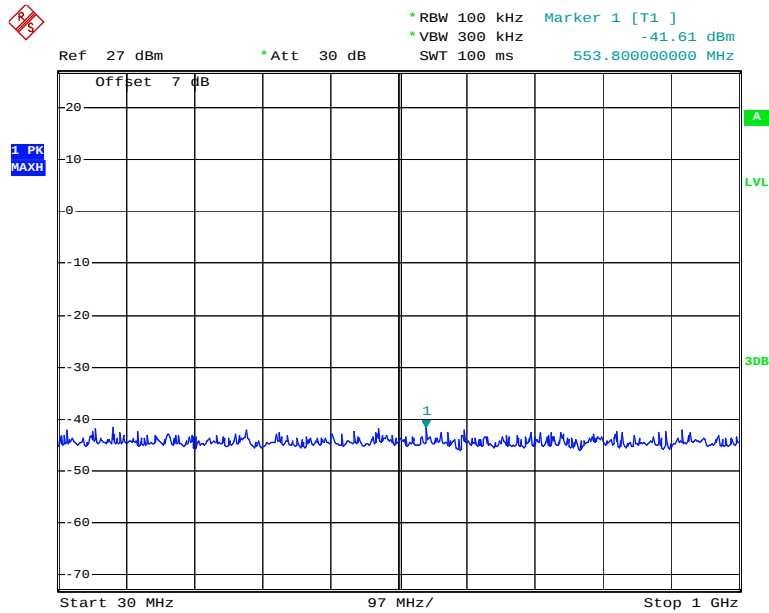
Date: 17.NOV.2014 15:09:50

Antenna2 802.11n ht20 Middle Channel 26.5GHz -40GHz



Date: 17.NOV.2014 15:12:28

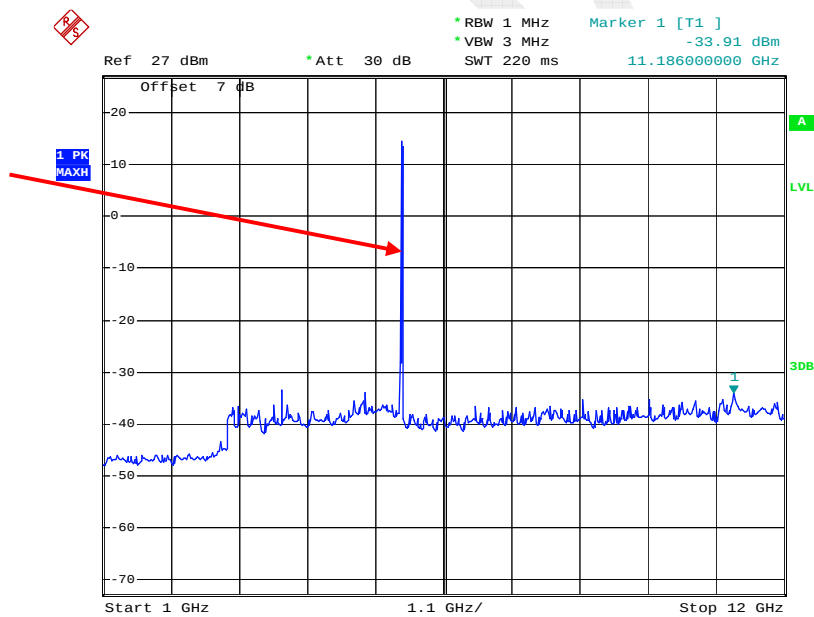
Antenna2 802.11n ht20 High Channel 30MHz-1GHz



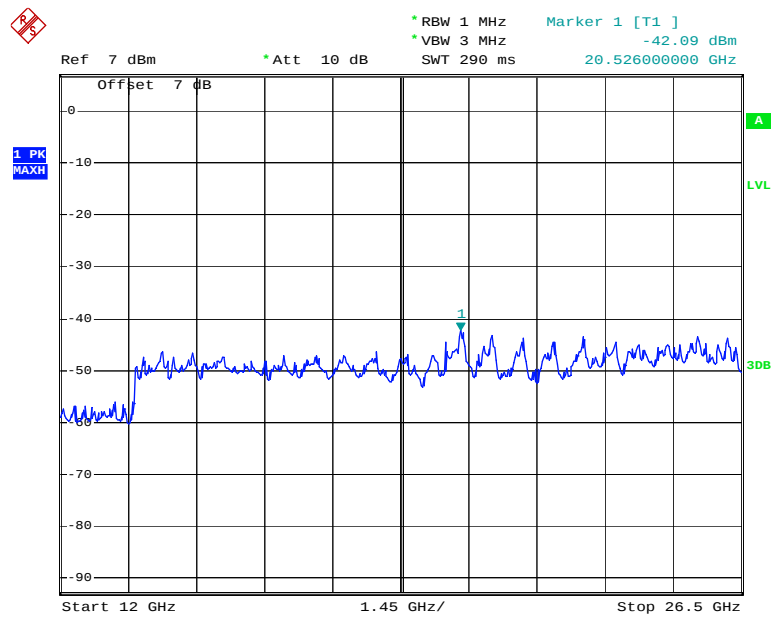
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Antenna2 802.11n ht20 High Channel 1GHz-12GHz

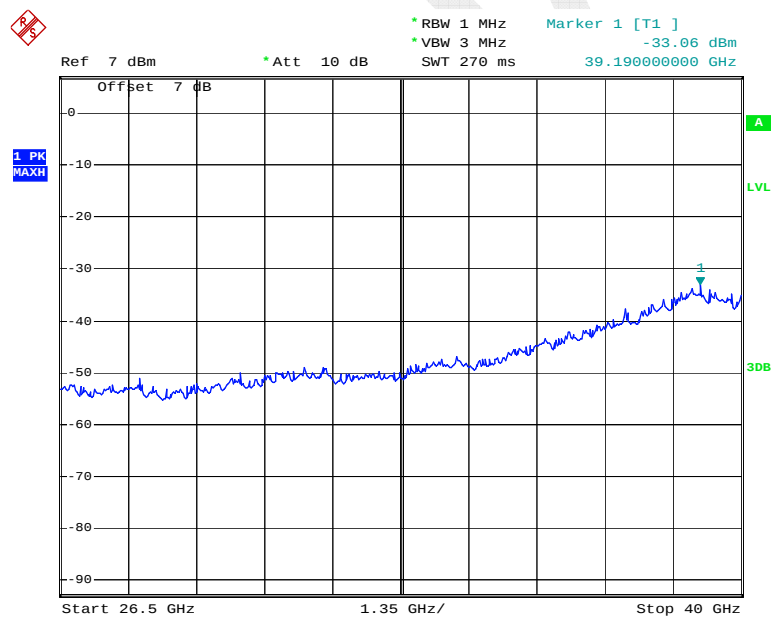
Fundamental



Date: 17.NOV.2014 14:06:29

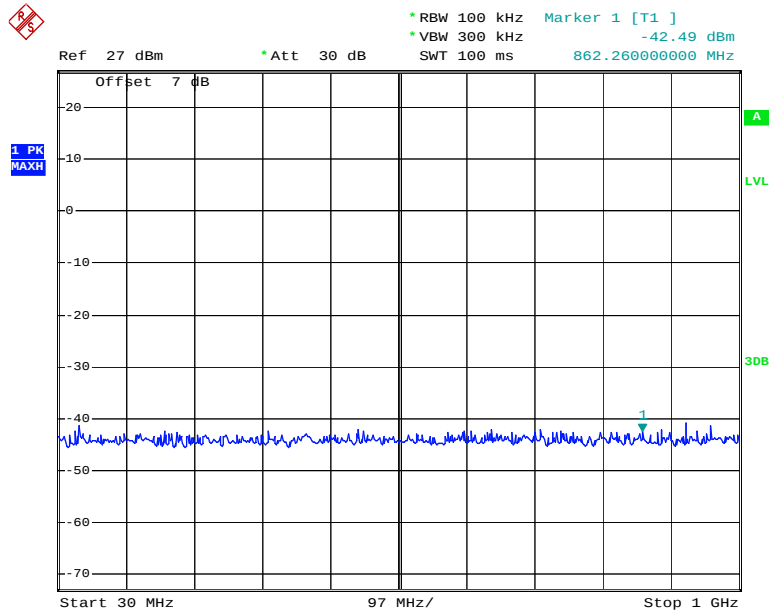
Antenna2 802.11n ht20 High Channel 12GHz-26.5GHz

Date: 17.NOV.2014 15:10:06

Antenna2 802.11n ht20 High Channel 26.5GHz-40GHz

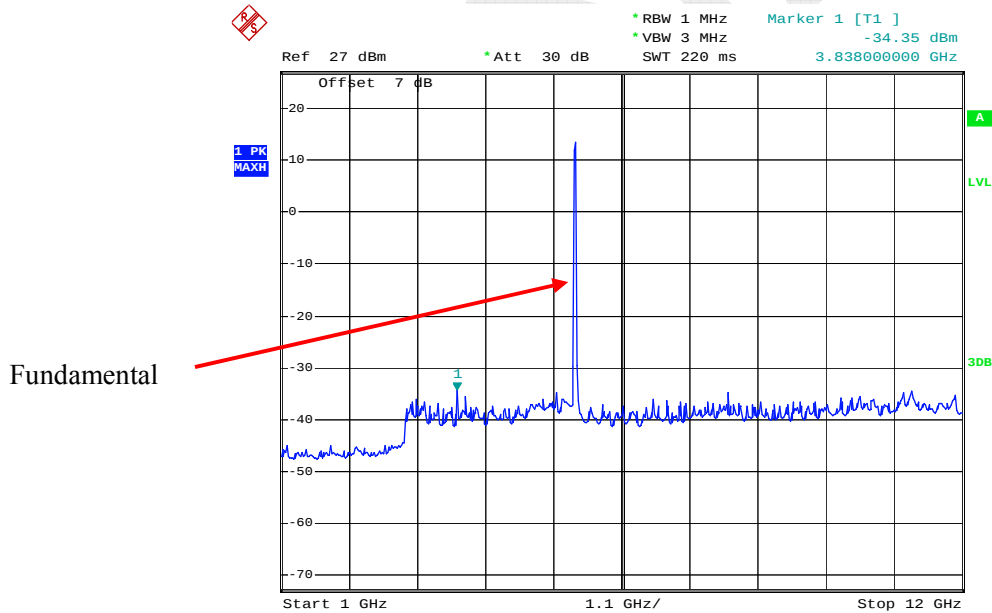
Date: 17.NOV.2014 15:14:42

Antenna2 802.11n ht40 Low Channel 30MHz-1GHz



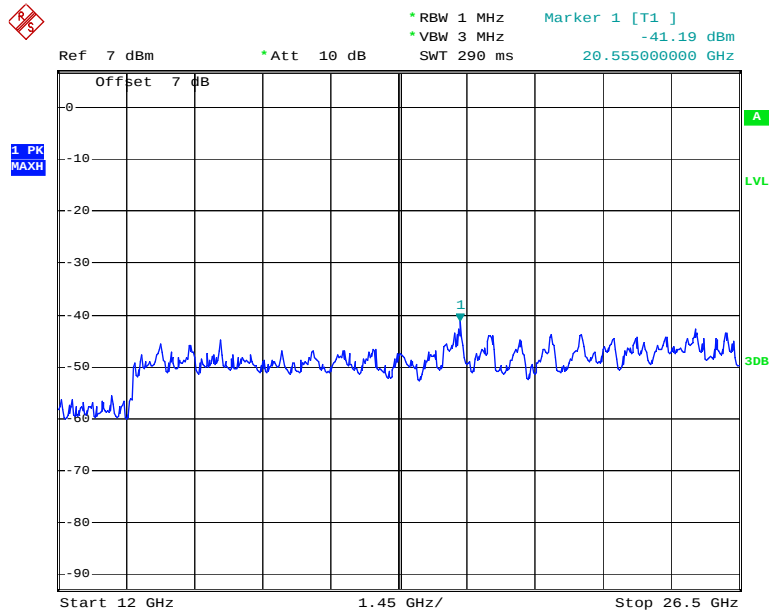
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Antenna2 802.11n ht40 Low Channel 1GHz-12GHz



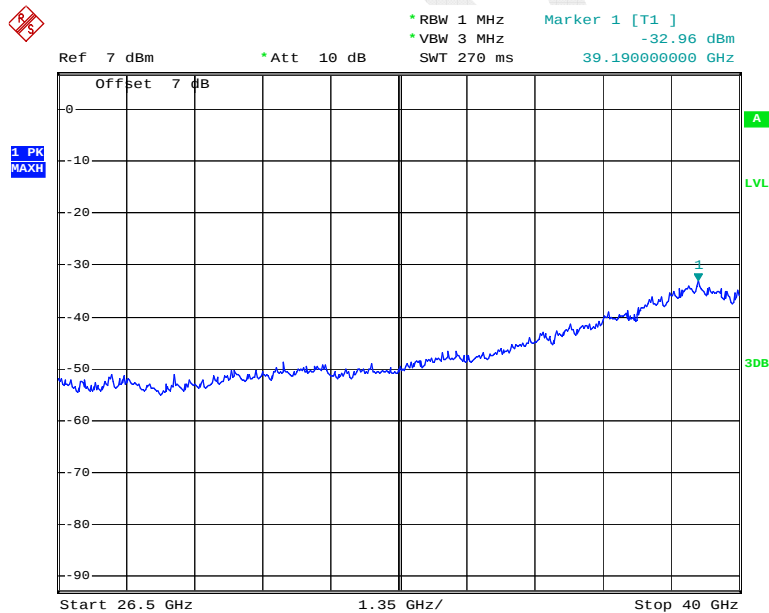
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Antenna2 802.11n ht40 Low Channel 12GHz-26.5GHz



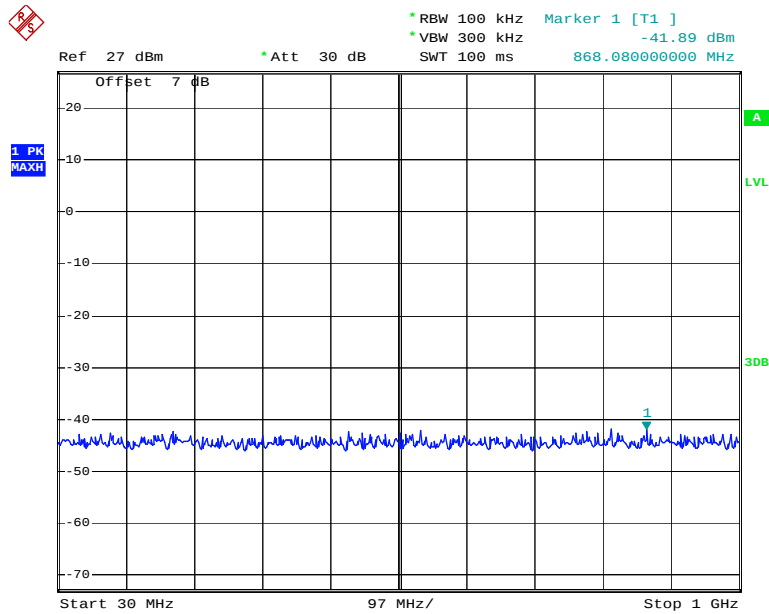
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Antenna2 802.11n ht40 Low Channel 26.5MHz-40GHz



Date: 17.NOV.2014 15:30:48

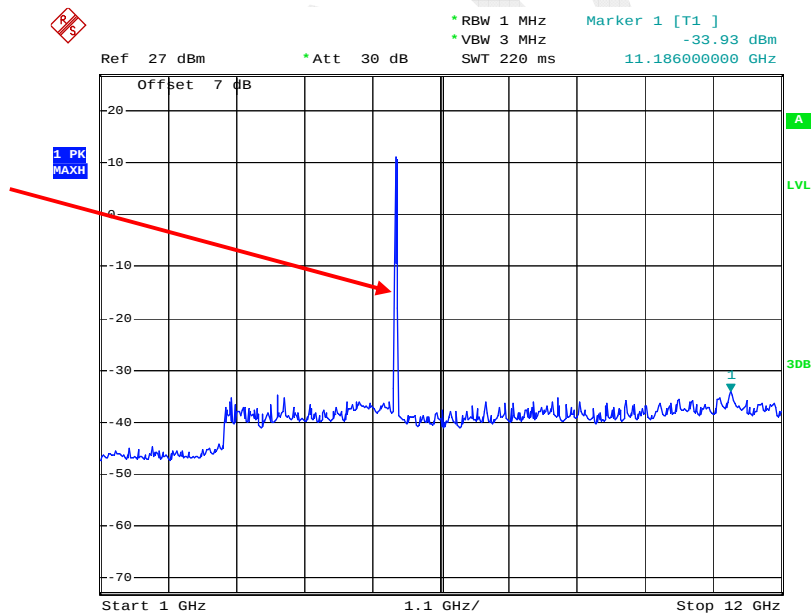
Antenna2 802.11n ht40 High Channel 30 MHz-1GHz



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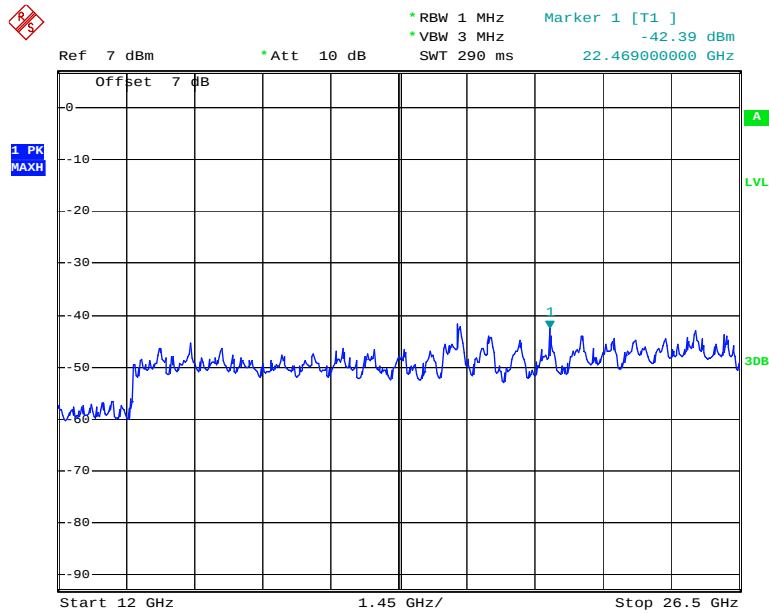
Antenna2 802.11n ht40 High Channel 1GHz-12GHz

Fundamental



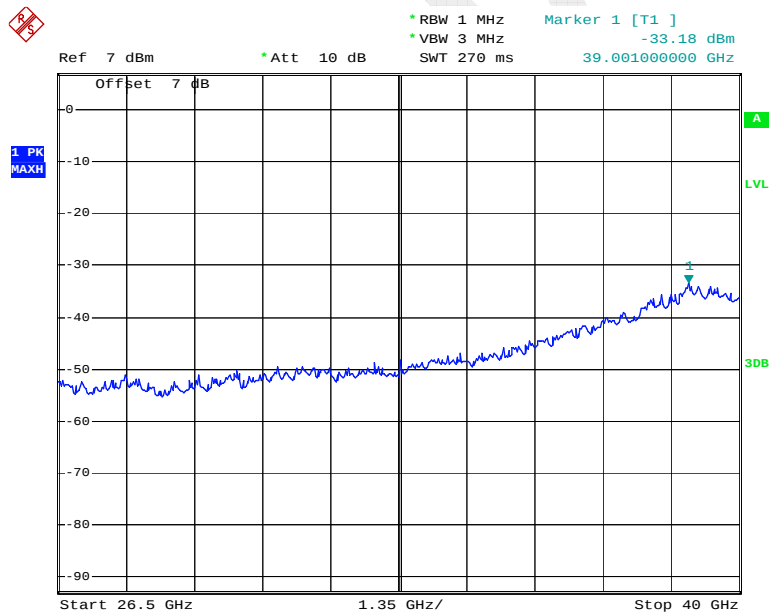
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Antenna2 802.11n ht40 High Channel 12 GHz-26.5GHz



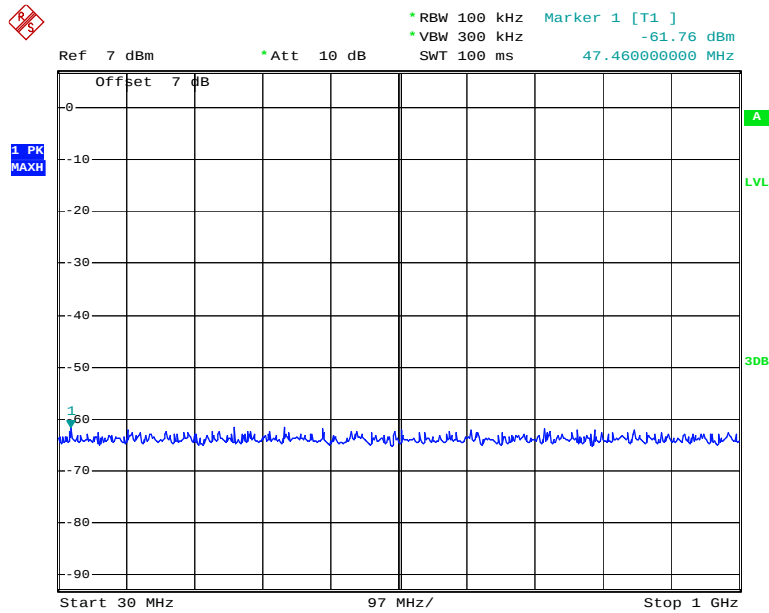
Date: 17.NOV.2014 15:23:43

Antenna2 802.11n ht40 High Channel 26.5GHz-40GHz



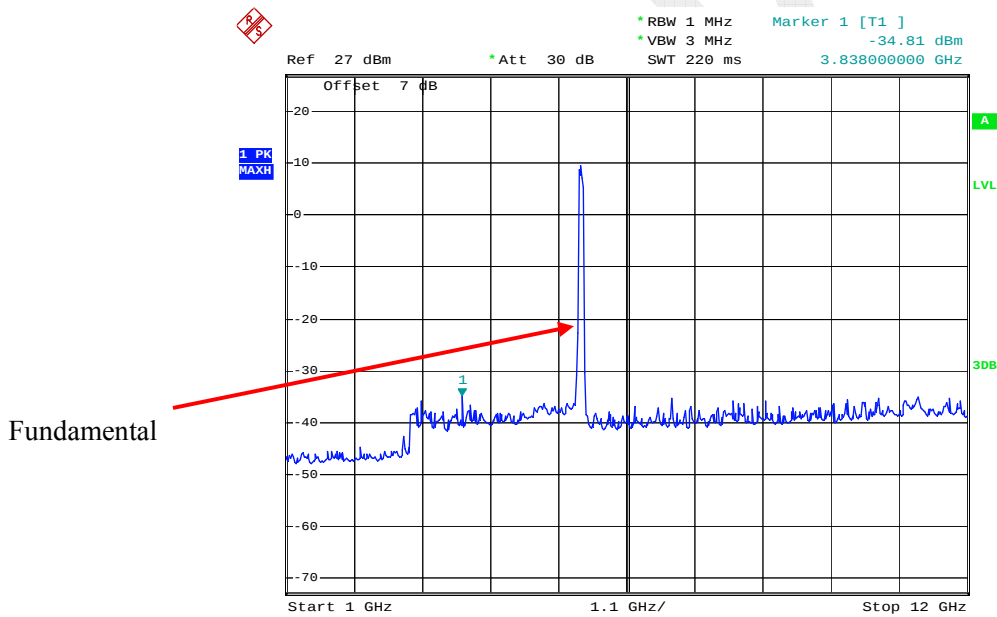
Date: 17.NOV.2014 15:32:03

Antenna2 802.11n ac80 30 MHz-1GHz



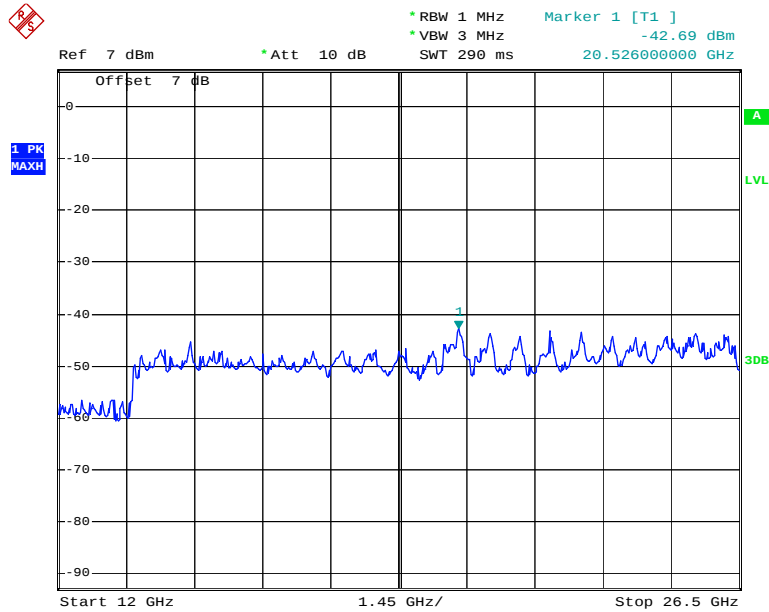
Date: 17.NOV.2014 15:35:52

Antenna2 802.11n ac80 1 GHz-12GHz



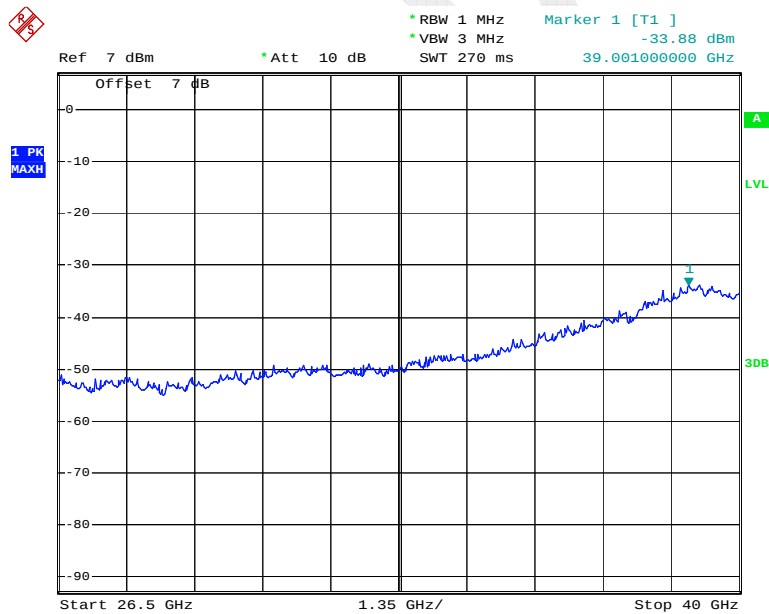
Date: 17.NOV.2014 14:22:37

Antenna2 802.11n ac80 12 GHz-26.5GHz



Date: 17.NOV.2014 15:26:00

Antenna2 802.11n ac80 26.5GHz-40GHz



Date: 17.NOV.2014 15:28:10

FCC §15.407(b) (1) –BAND EDGE**Applicable Standard**

FCC §15.407 (b) (1), (2), (3), (4);

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(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 e.i.r.p. 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 e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25.4°C ~25.9 °C
Relative Humidity:	44%~50 %
ATM Pressure:	101.5 kPa ~101.7 kPa

The testing was performed by Sevin Liu from 2014-11-17 to 2014-11-18.

Please refer to the following table and plots.

5150MHz-5250MHz:

Mode	Channel	Frequency	Conducted Spurious Emissions (dBm)					Result
		MHz	Chain 0	Chain 1	Chain 2	Total	Limits	
802.11a	Low	5180	-33.91	-32.75	-33.21	-28.49	-27	PASS
	High	5240	-37.29	-37.18	-37.02	-32.39	-27	PASS
802.11n20	Low	5180	-33.81	-33.28	-33.45	-28.74	-27	PASS
	High	5240	-35.67	-36.15	-35.38	-30.95	-27	PASS
802.11n40	Low	5190	-32.69	-32.65	-33.12	-28.04	-27	PASS
	High	5230	-36.70	-35.95	-40.62	-32.56	-27	PASS
802.11ac80	Low	5210	-33.53	-33.06	-33.51	-28.59	-27	PASS

Note: Offset= Directional Antenna(dBi)+Cable loss(dB)

According to KDB 789033 D02 General UNII Test Procedures New Rules v01, lower resolution bandwidth and integrated method was employed for testing when the bandedge test margin the limits

5725MHz-5850MHz:

Mode	Bandedge	Offset (MHz)	Conducted Spurious Emissions (dBm)					Result
			Chain 0	Chain 1	Chain 2	Total	Limits	
802.11a	Left	0	-31.14	-29.17	-30.60	-25.45	-17	PASS
		10	-33.55	-32.23	-33.11	-28.16	-27	PASS
	Right	0	-33.42	-34.86	-33.36	-29.06	-27	PASS
802.11n20	Left	0	-30.77	-30.20	-30.13	-25.59	-17	PASS
		10	-33.20	-33.03	-33.67	-28.52	-27	PASS
	Right	0	-32.26	-35.14	-34.82	-29.10	-27	PASS
802.11n40	Low	0	-28.72	-28.52	-29.51	-24.12	-17	PASS
		10	-32.92	-32.67	-32.44	-27.90	-27	PASS
	High	0	-38.27	-37.23	-37.36	-32.82	-27	PASS
802.11ac80	Left	0	-26.33	-26.08	-26.03	-21.37	-17	PASS
		10	-32.34	-33.55	-32.79	-28.09	-27	PASS
	Right	0	-36.44	-33.92	-36.84	-30.76	-27	PASS

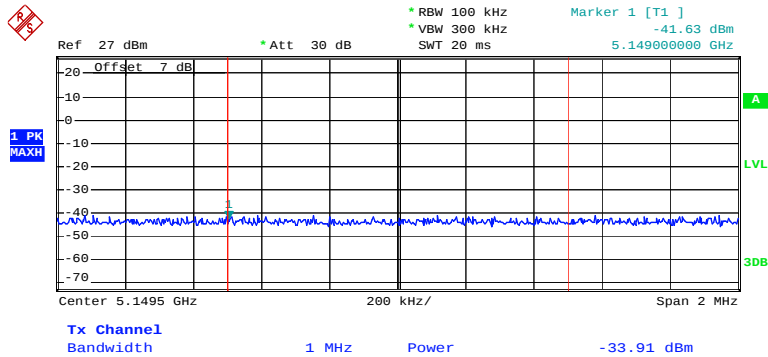
Note: Offset= Directional Antenna(dBi)+Cable loss(dB)

The right bandedge meet the limit -27dBm, that also meet the limits for 0MHz offset and 10MHz offset.

According to KDB 789033 D02 General UNII Test Procedures New Rules v01, lower resolution bandwidth and integrated method was employed for testing when the bandedge test margin the limits

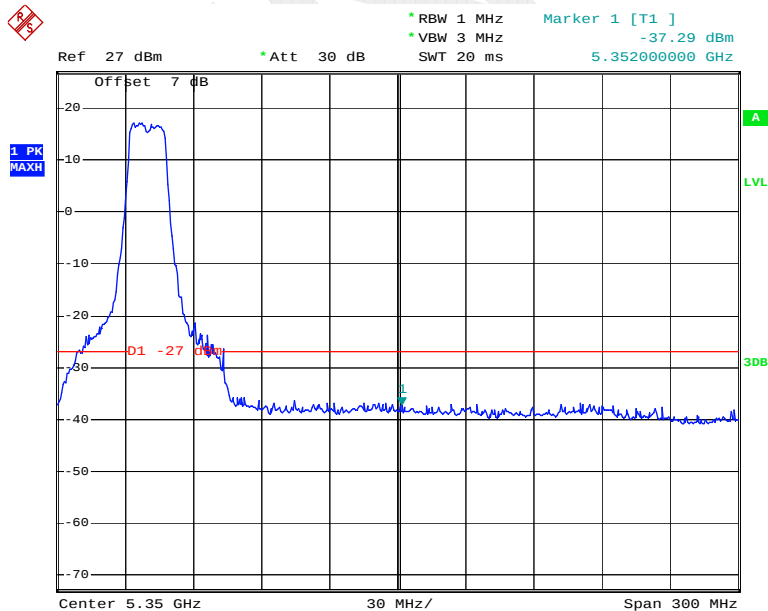
5150MHz-5250MHz:

Antenna0 802.11a Band Edge, Left Side



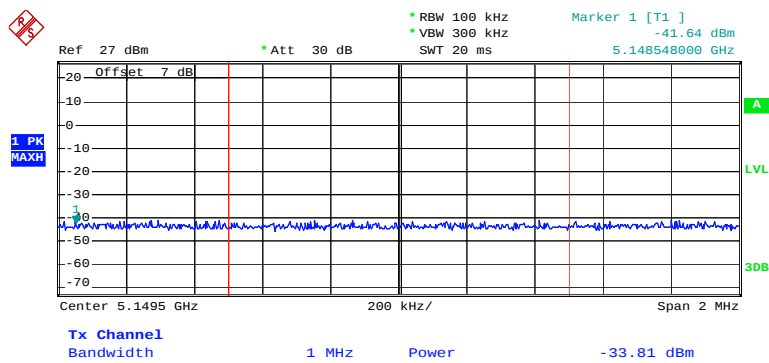
Date: 18.NOV.2014 15:50:08

Antenna0 802.11a Band Edge, Right Side



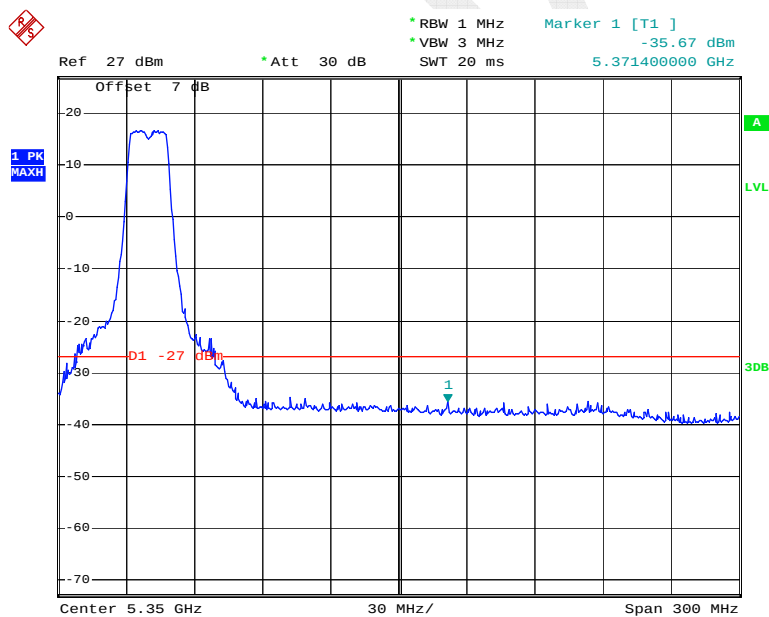
Date: 18.NOV.2014 16:01:37

Antenna0 802.11n ht20 Band Edge, Left Side



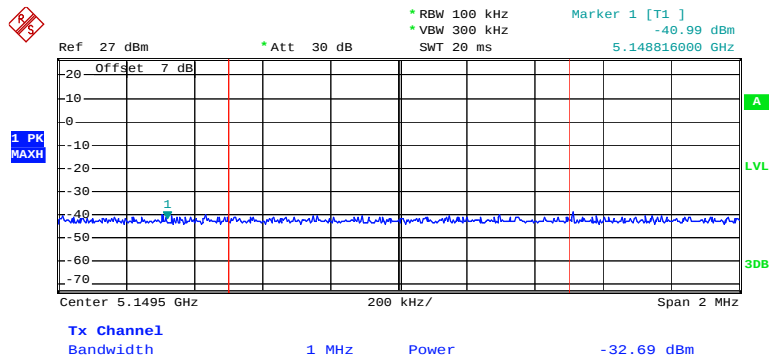
Date: 18.NOV.2014 15:47:54

Antenna0 802.11n ht20 Band Edge, Right Side



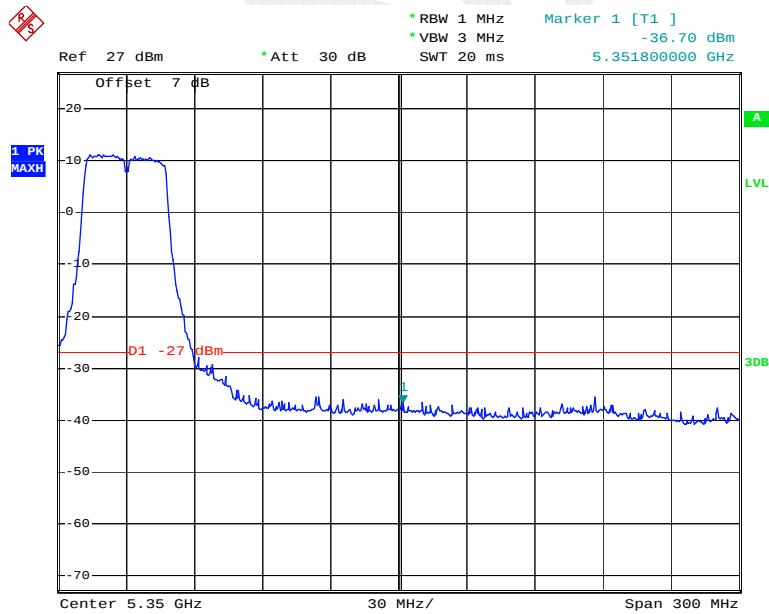
Date: 18.NOV.2014 15:57:11

Antenna0 802.11n ht40 Band Edge, Left Side



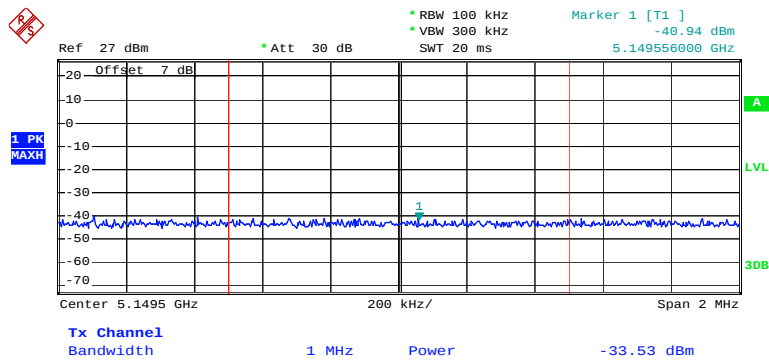
Date: 18.NOV.2014 15:47:23

Antenna0 802.11n ht40 Band Edge, Right Side



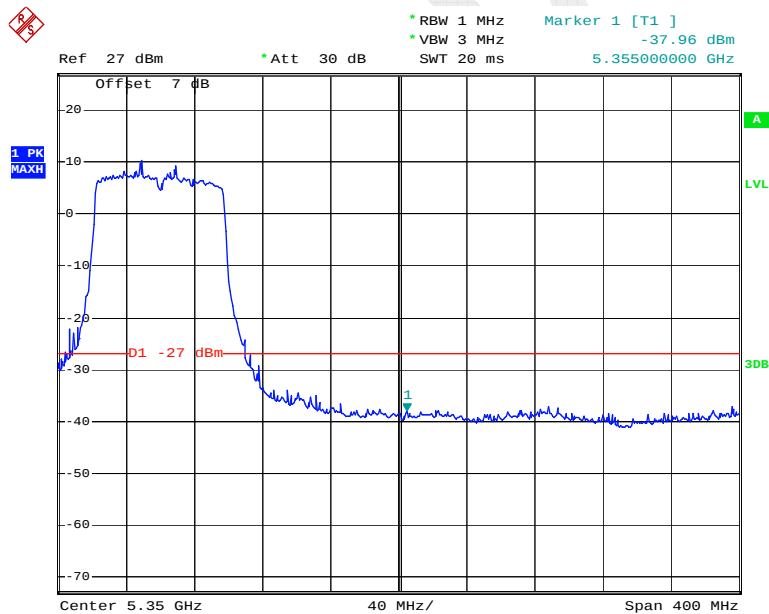
Date: 18.NOV.2014 15:58:08

Antenna0 802.11n ac80 Band Edge, Left Side



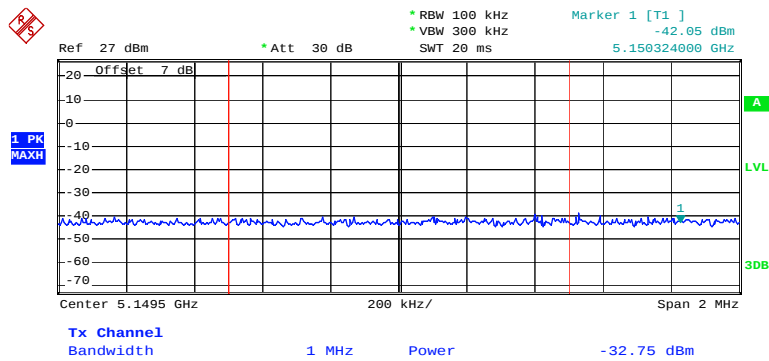
Date: 18.NOV.2014 15:46:29

Antenna0 802.11n ac80 Band Edge, Right Side



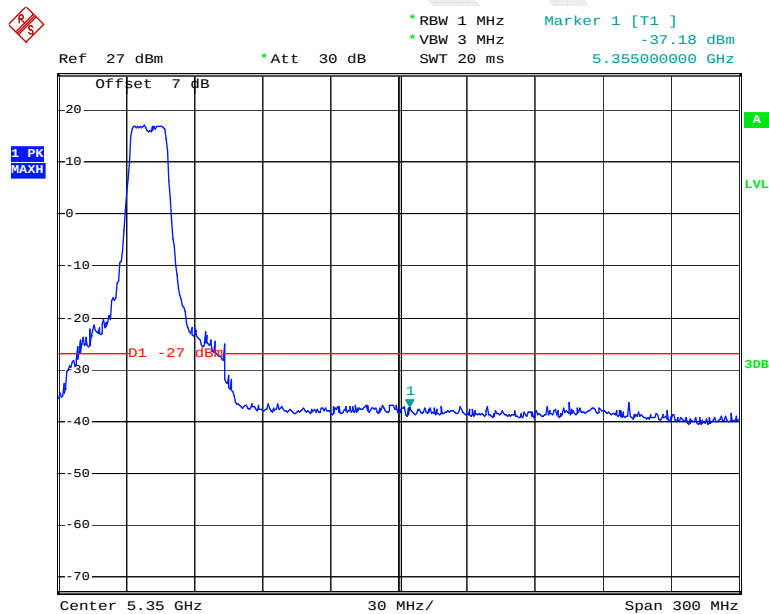
Date: 18.NOV.2014 15:59:45

Antenna1 0802.11a Band Edge, Left Side



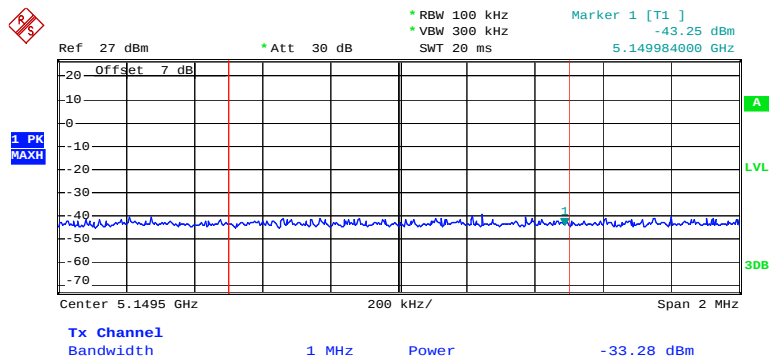
Date: 17.NOV.2014 21:09:47

Antenna1 802.11a Band Edge, Right Side



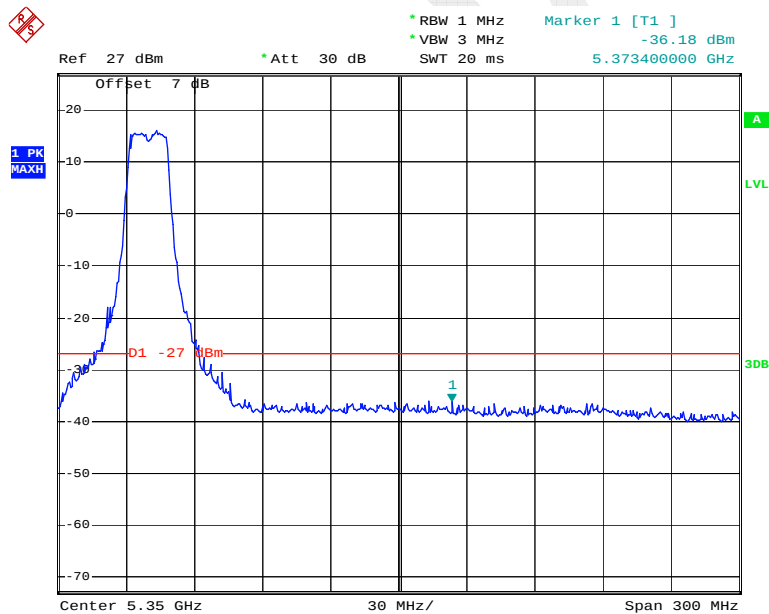
Date: 17.NOV.2014 21:07:30

Antenna1 802.11n ht20 Band Edge, Left Side



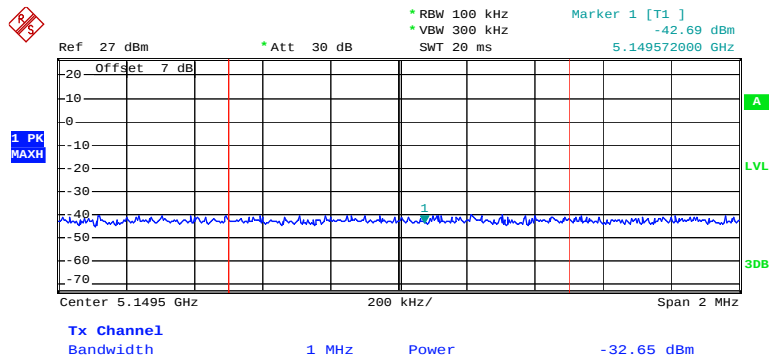
Date: 17.NOV.2014 21:13:23

Antenna1 802.11n ht20 Band Edge, Right Side



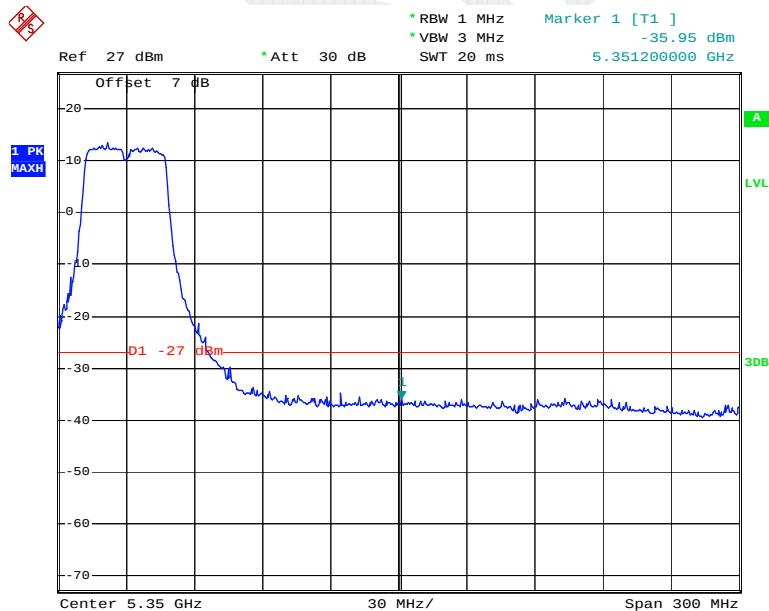
Date: 17.NOV.2014 21:16:10

Antenna1 802.11n ht40 Band Edge, Left Side



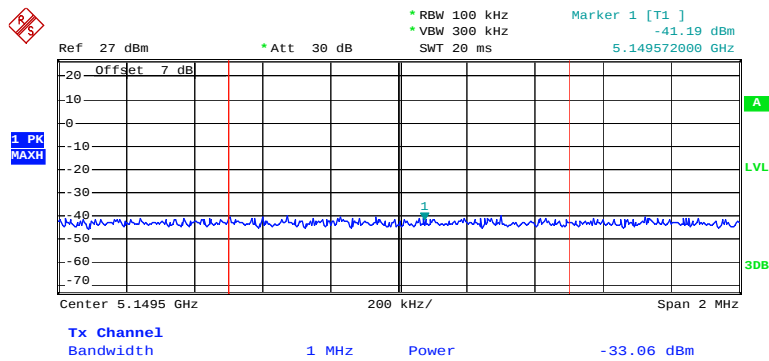
Date: 17.NOV.2014 21:13:42

Antenna1 802.11n ht40 Band Edge, Right Side



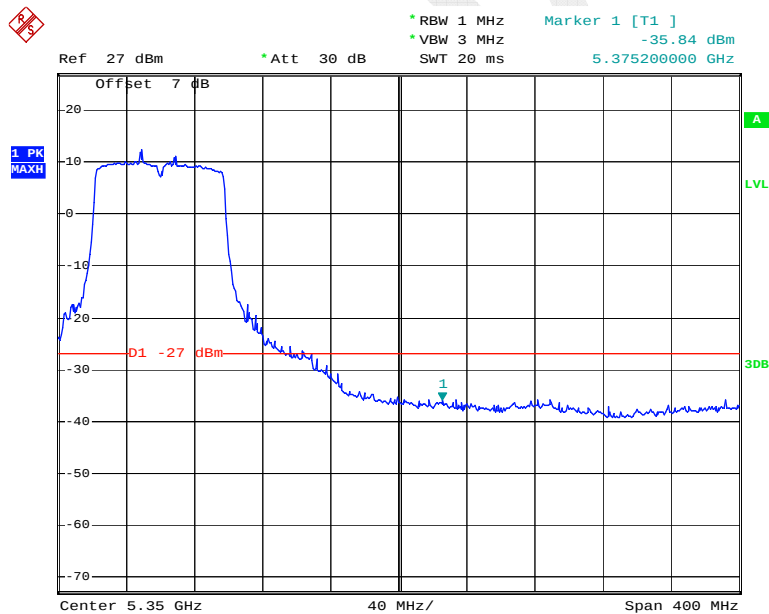
Date: 17.NOV.2014 21:17:25

Antenna1 802.11n ac80 Band Edge, Left Side



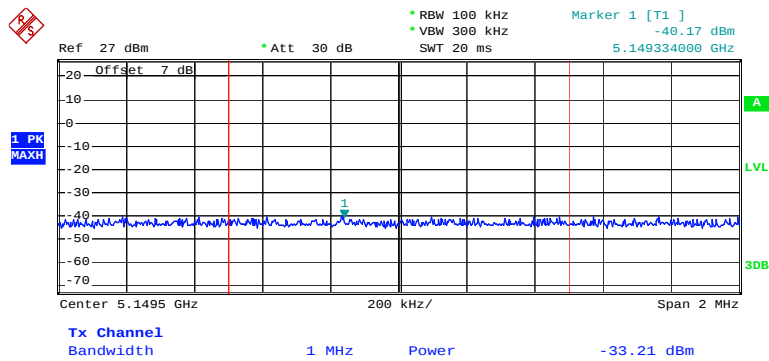
Date: 17.NOV.2014 21:13:50

Antenna1 802.11n ac80 Band Edge, Right Side



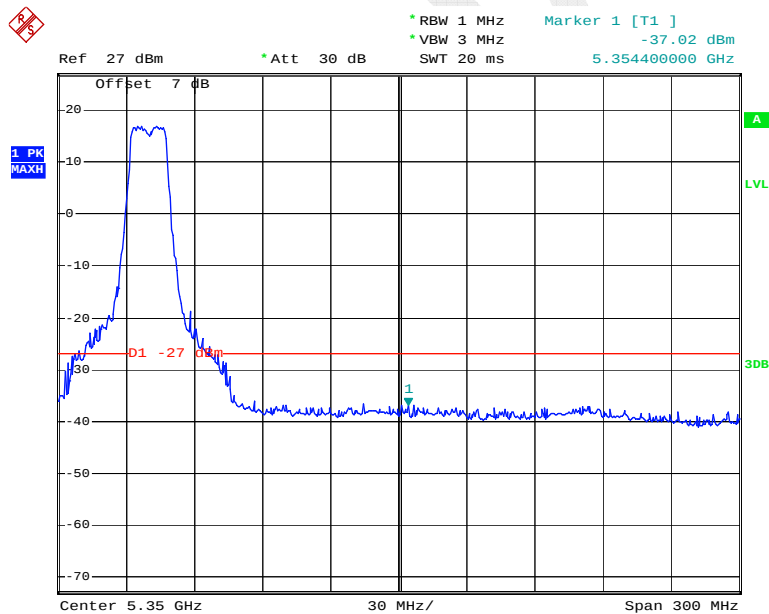
Date: 17.NOV.2014 21:18:53

Antenna2 0802.11a Band Edge, Left Side



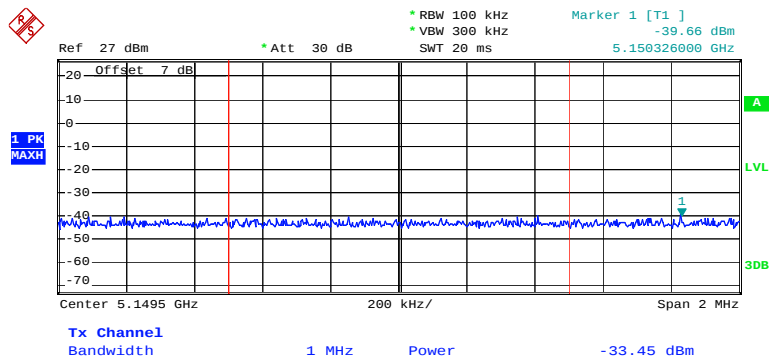
Date: 17.NOV.2014 14:03:18

Antenna2 802.11a Band Edge, Right Side



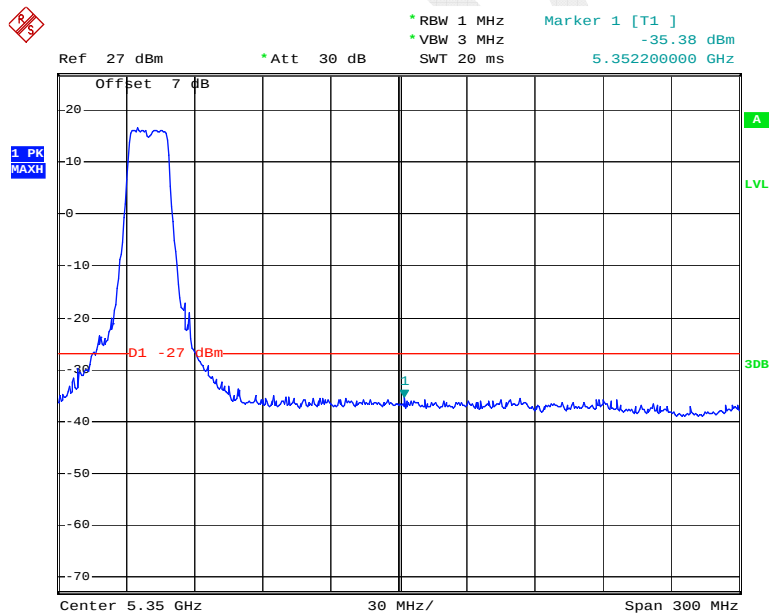
Date: 17.NOV.2014 21:06:01

Antenna2 802.11n ht20 Band Edge, Left Side



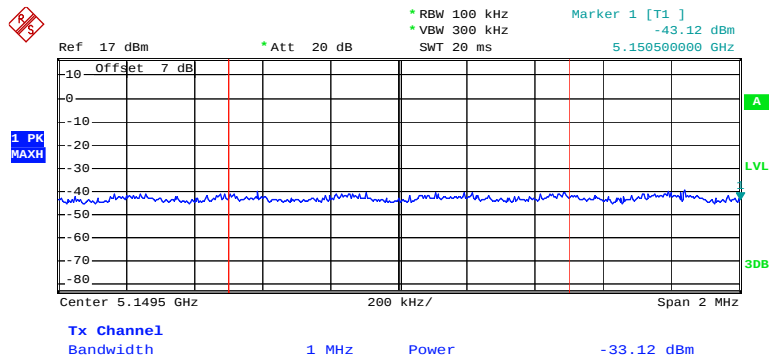
Date: 17.NOV.2014 14:00:59

Antenna2 802.11n ht20 Band Edge, Right Side



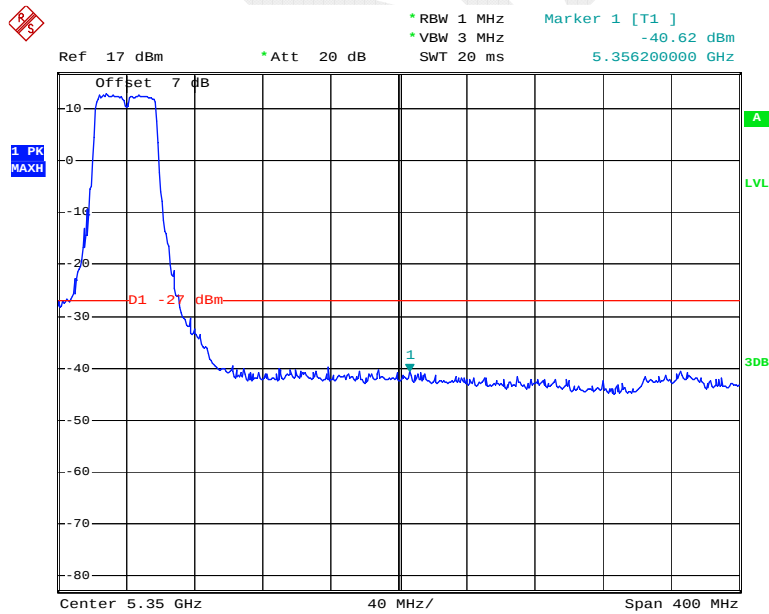
Date: 17.NOV.2014 12:54:26

Antenna2 802.11n ht40 Band Edge, Left Side



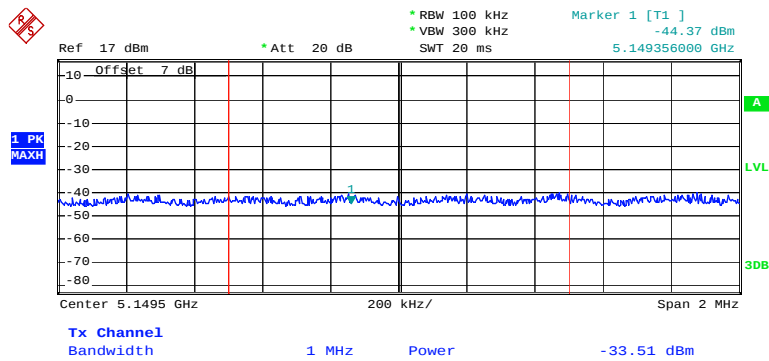
Date: 17.NOV.2014 12:42:38

Antenna2 802.11n ht40 Band Edge, Right Side



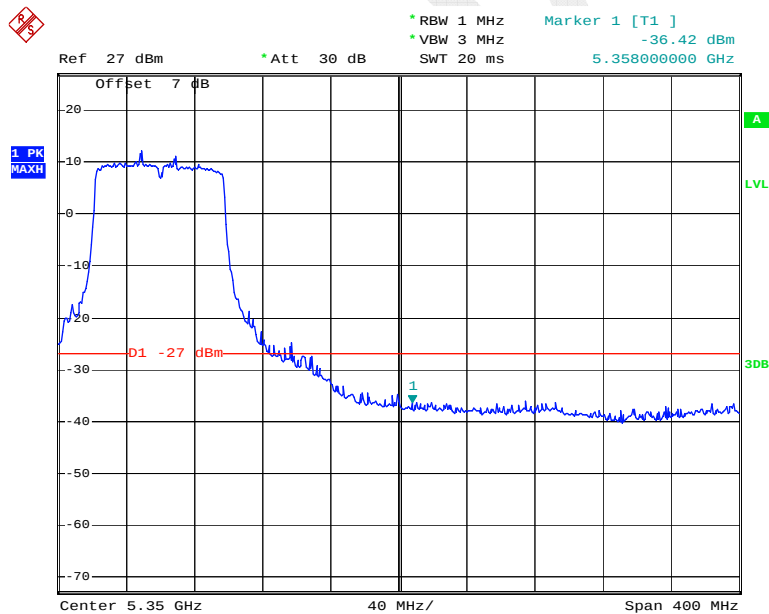
Date: 17.NOV.2014 12:41:24

Antenna2 802.11n ac80 Band Edge, Left Side



Date: 17.NOV.2014 12:38:50

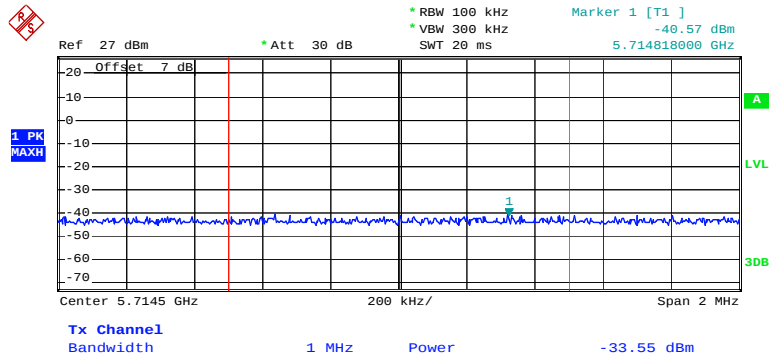
Antenna2 802.11n ac80 Band Edge, Right Side



Date: 17.NOV.2014 21:23:21

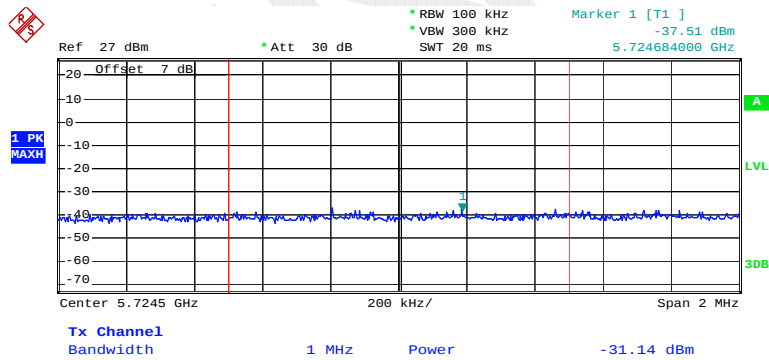
5725MHz-5850MHz:

Antenna0 802.11a Band Edge, Left-1 Side



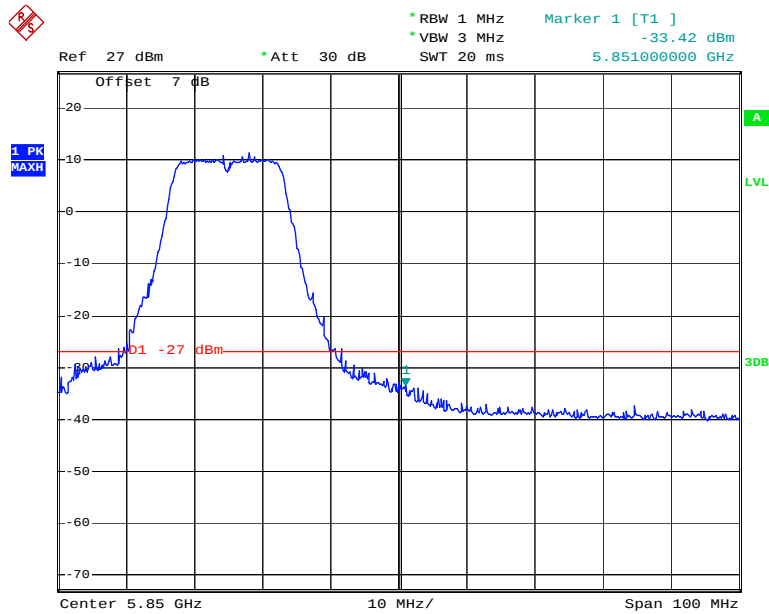
Date: 18.NOV.2014 16:21:06

Antenna0 802.11a Band Edge, Left-2 Side



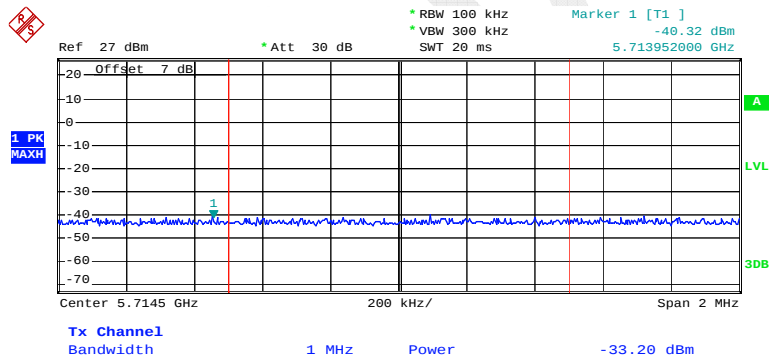
Date: 18.NOV.2014 16:20:37

Antenna0 802.11a Band Edge, Right Side



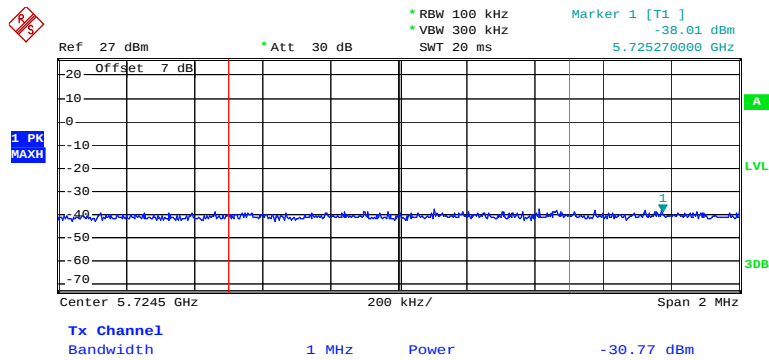
Date: 18.NOV.2014 16:00:51

Antenna0 802.11n ht20 Band Edge, Left-1 Side



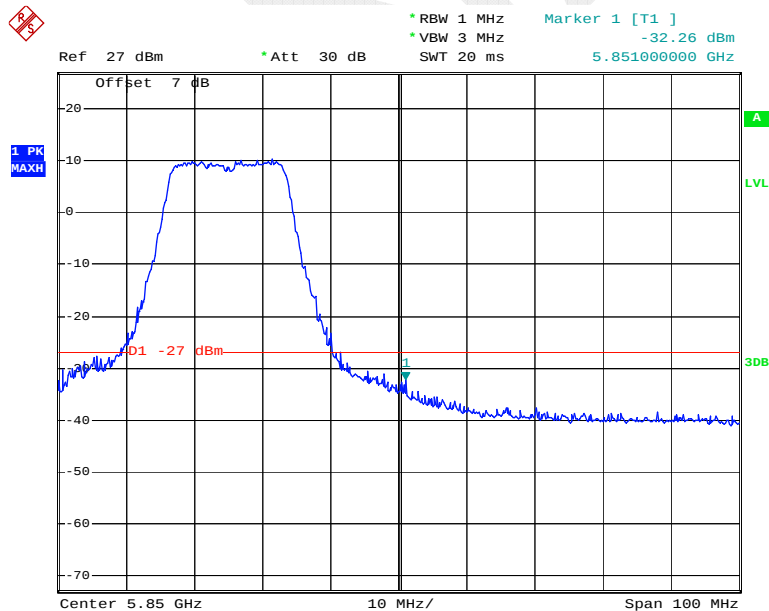
Date: 18.NOV.2014 16:18:53

Antenna0 802.11n ht20 Band Edge, Left-2 Side



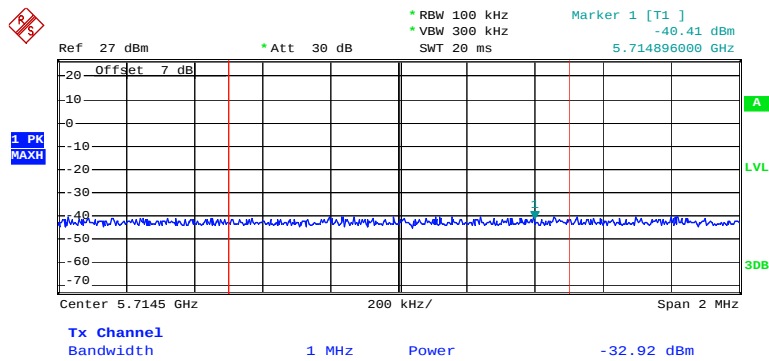
Date: 18.NOV.2014 16:19:24

Antenna0 802.11n ht20 Band Edge, Right Side



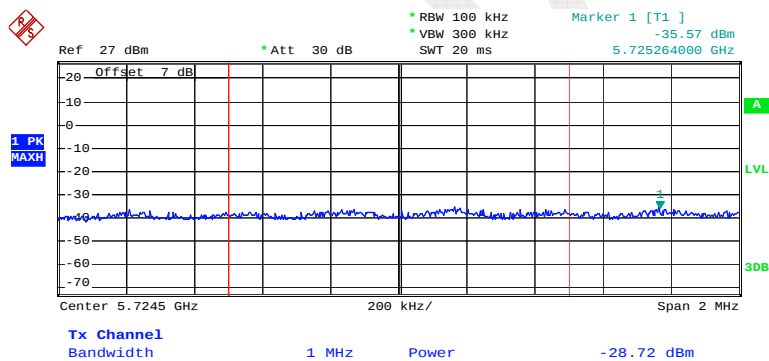
Date: 18.NOV.2014 16:01:29

Antenna0 802.11n ht40 Band Edge, Left-1 Side



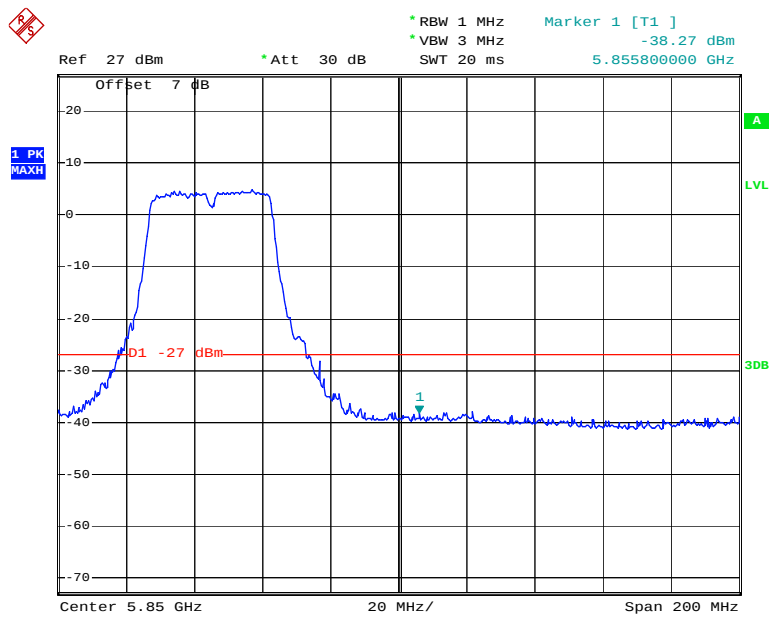
Date: 18.NOV.2014 16:18:08

Antenna0 802.11n ht40 Band Edge, Left-2 Side



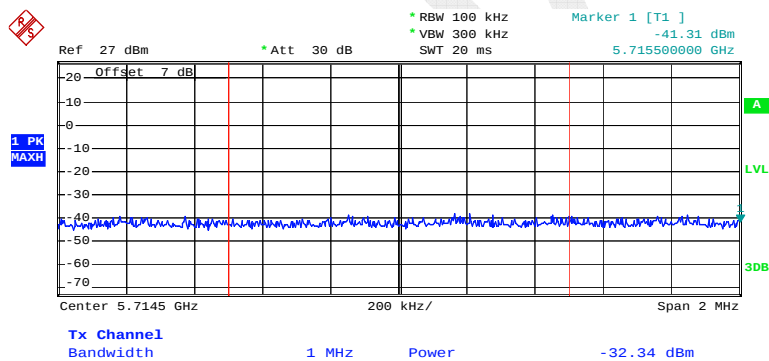
Date: 18.NOV.2014 16:17:55

Antenna0 802.11n ht40 Band Edge, Right Side



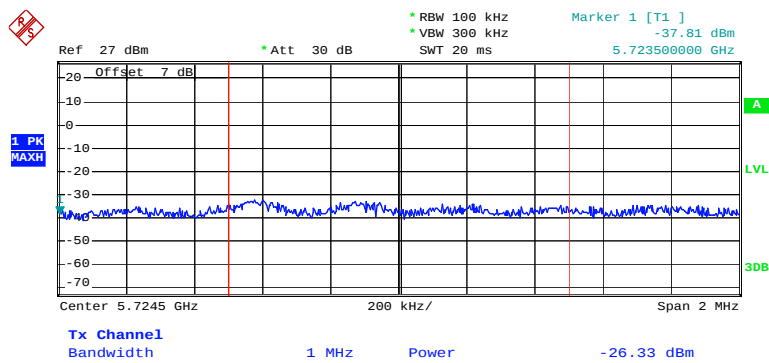
Date: 18.NOV.2014 16:05:07

Antenna0 802.11n ac80 Band Edge, Left-1 Side



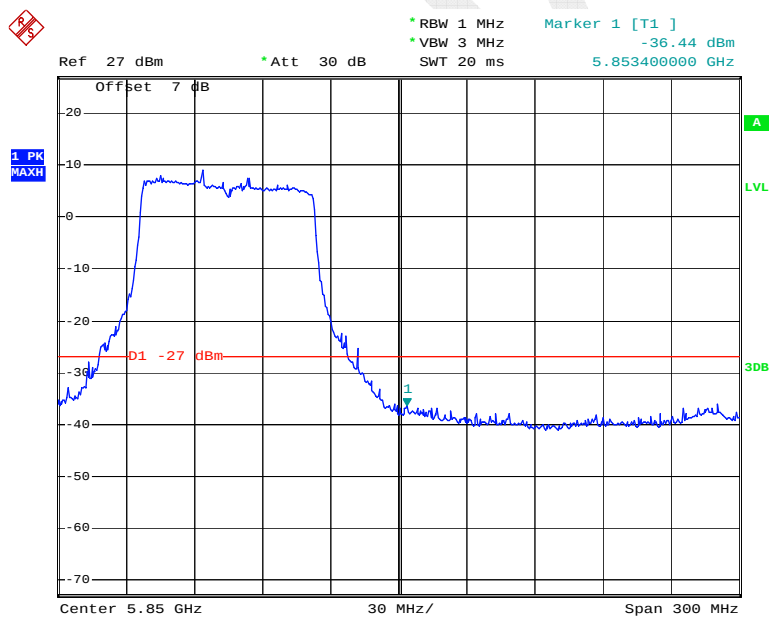
Date: 18.NOV.2014 16:14:22

Antenna0 802.11n ac80 Band Edge, Left-2 Side



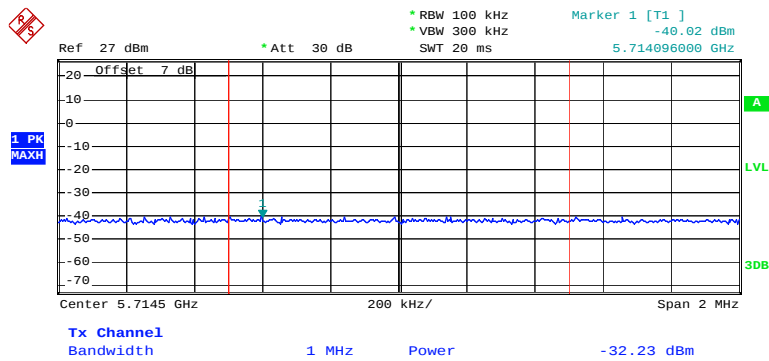
Date: 18.NOV.2014 16:14:54

Antenna0 802.11n ac80 Band Edge, Right Side



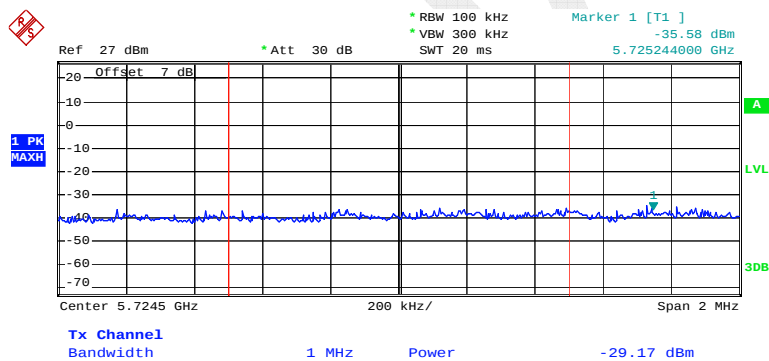
Date: 18.NOV.2014 16:11:25

Antenna1 802.11a Band Edge, Left-1 Side



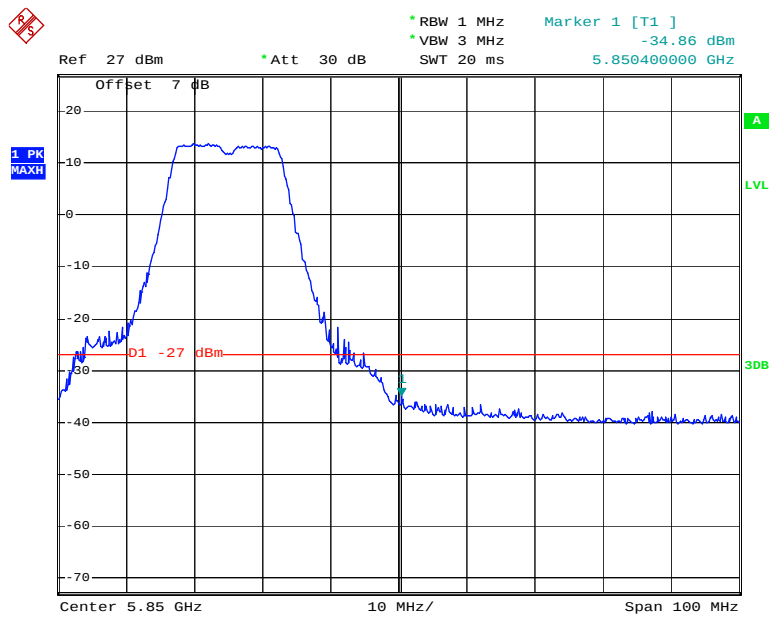
Date: 18.NOV.2014 00:00:08

Antenna1 802.11a Band Edge, Left-2 Side



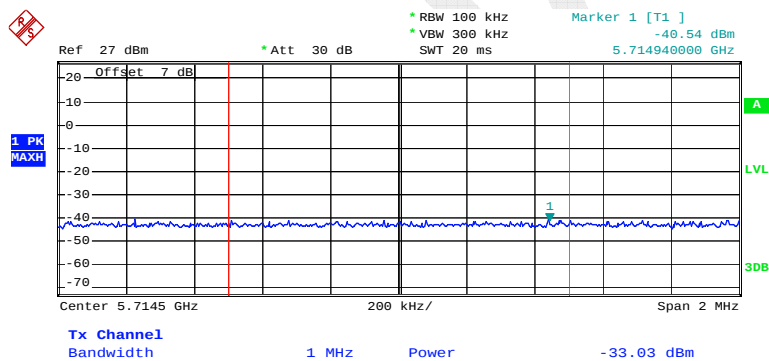
Date: 18.NOV.2014 00:01:04

Antenna1 802.11a Band Edge, Right Side



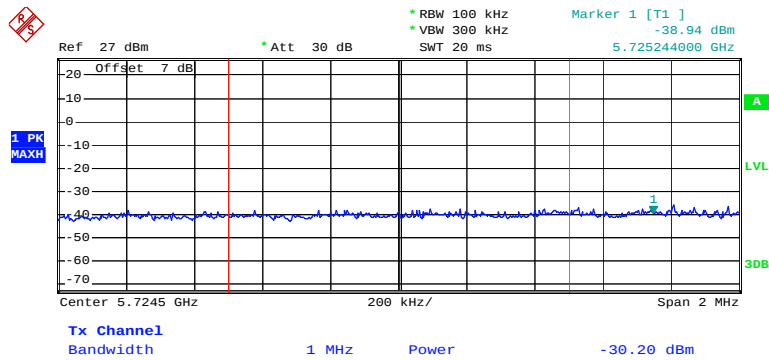
Date: 17.NOV.2014 23:58:17

Antenna1 802.11n ht20 Band Edge, Left-1 Side



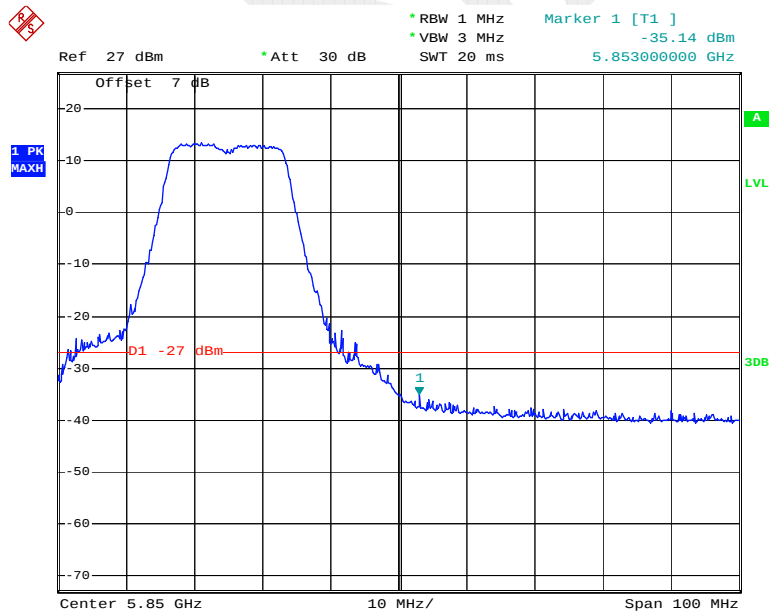
Date: 18.NOV.2014 00:02:35

Antenna1 802.11n ht20 Band Edge, Left-2 Side



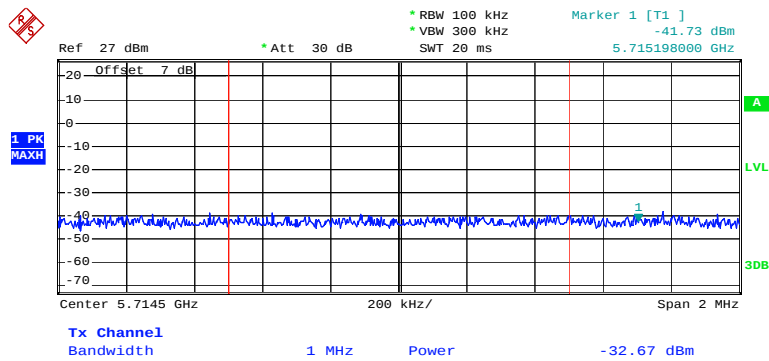
Date: 18.NOV.2014 00:02:22

Antenna1 802.11n ht20 Band Edge, Right Side



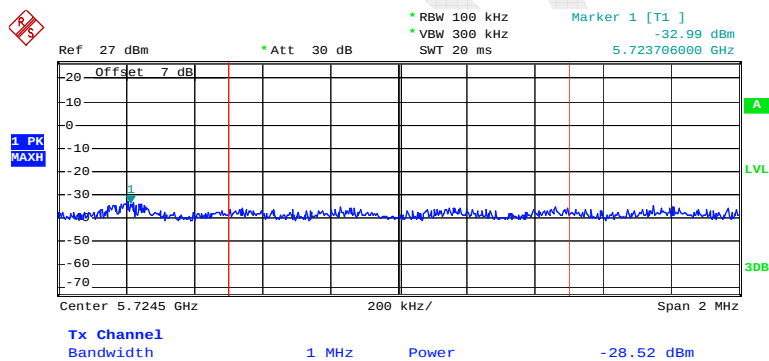
Date: 17.NOV.2014 23:57:32

Antenna1 802.11n ht40 Band Edge, Left-1 Side



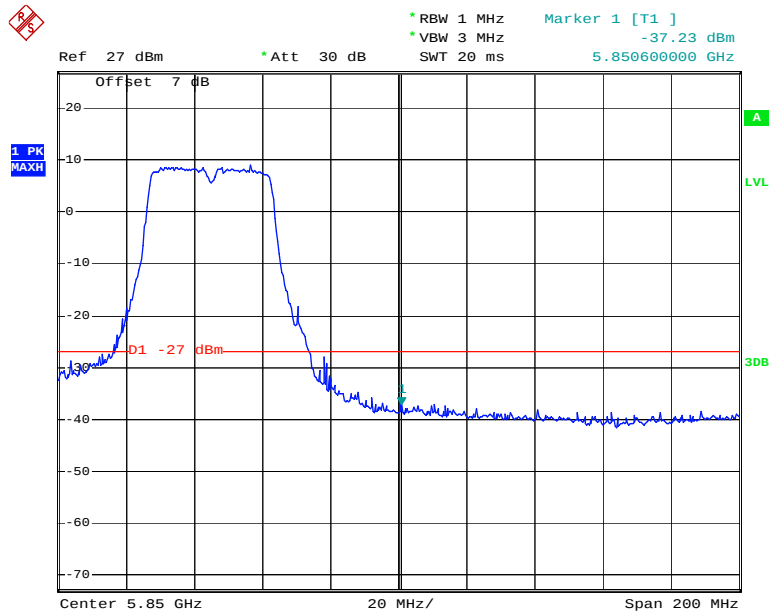
Date: 17.NOV.2014 23:49:43

Antenna1 802.11n ht40 Band Edge, Left-2 Side



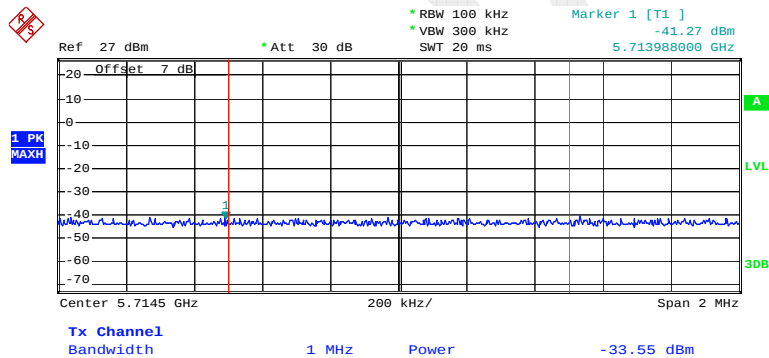
Date: 17.NOV.2014 23:48:30

Antenna1 802.11n ht40 Band Edge, Right Side



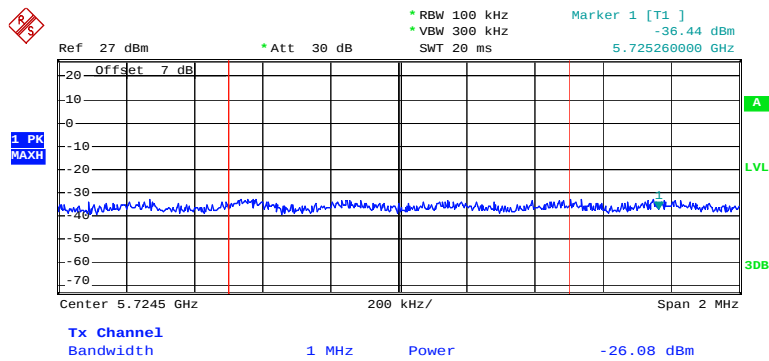
Date: 17.NOV.2014 23:51:14

Antenna1 802.11n ac80 Band Edge, Left-1 Side



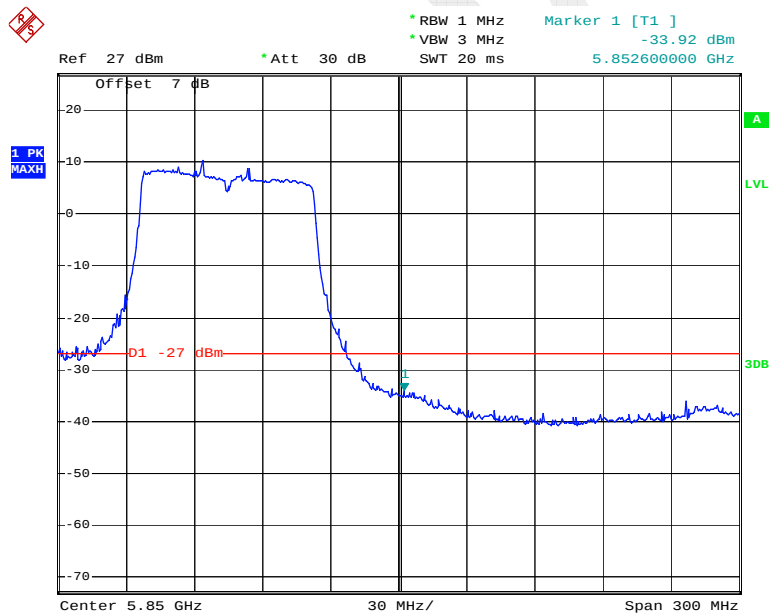
Date: 17.NOV.2014 23:44:35

Antenna1 802.11n ac80 Band Edge, Left-2 Side



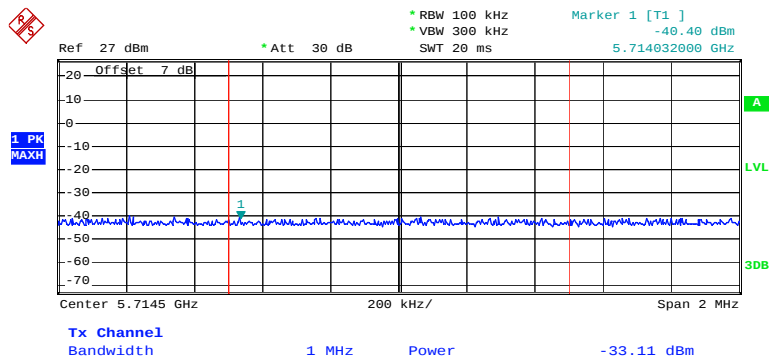
Date: 17.NOV.2014 23:45:11

Antenna1 802.11n ac80 Band Edge, Right Side



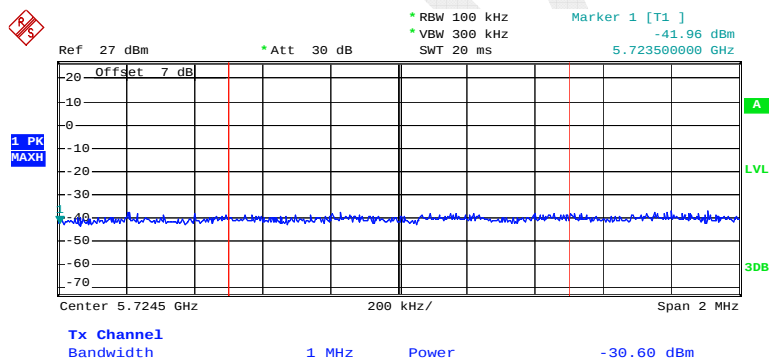
Date: 17.NOV.2014 23:43:01

Antenna2 802.11a Band Edge, Left-1 Side



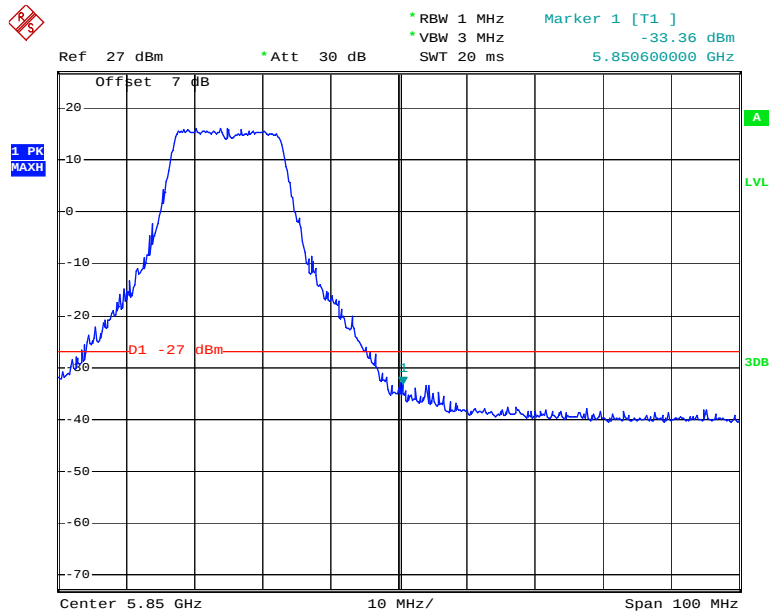
Date: 17.NOV.2014 14:12:08

Antenna2 802.11a Band Edge, Left-2 Side



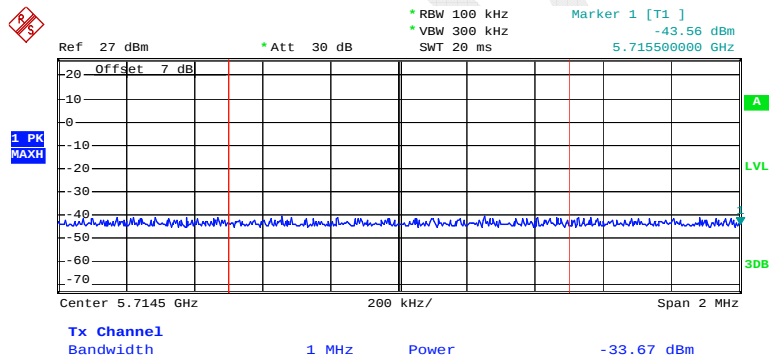
Date: 17.NOV.2014 14:13:03

Antenna2 802.11a Band Edge, Right Side



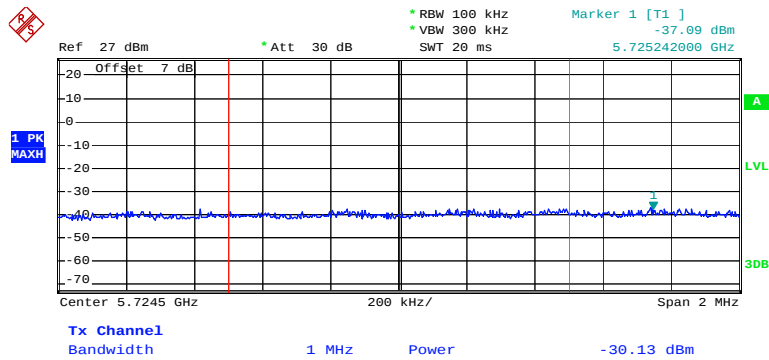
Date: 17.NOV.2014 14:34:41

Antenna2 802.11n ht20 Band Edge, Left-1 Side



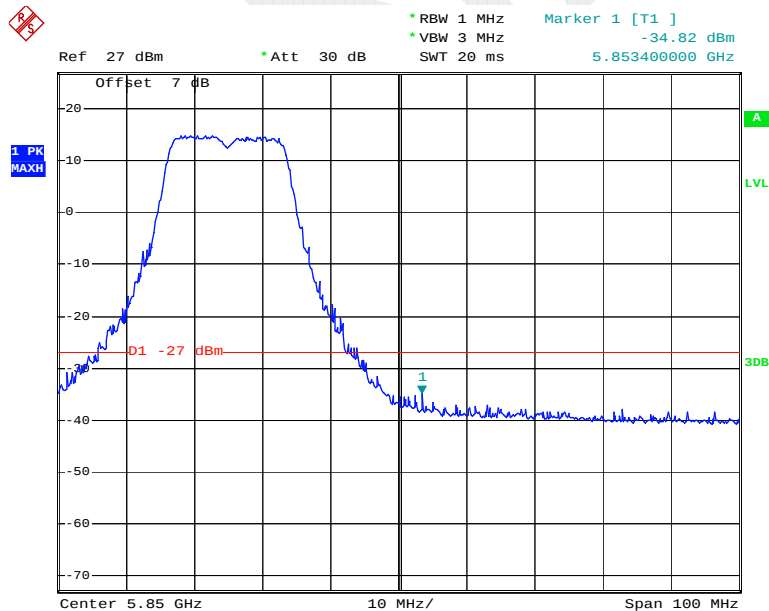
Date: 17.NOV.2014 14:20:54

Antenna2 802.11n ht20 Band Edge, Left-2 Side



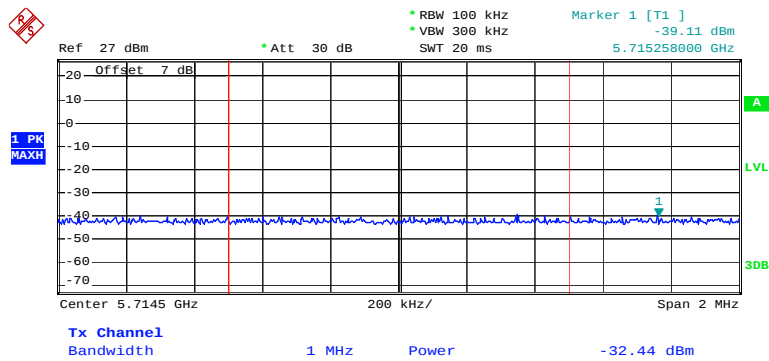
Date: 17.NOV.2014 14:20:33

Antenna2 802.11n ht20 Band Edge, Right Side



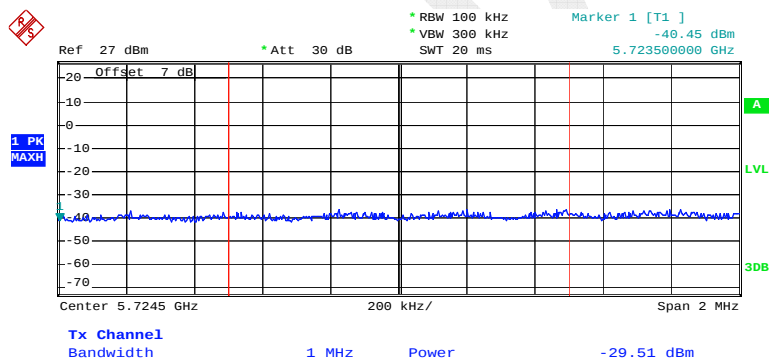
Date: 17.NOV.2014 14:35:39

Antenna2 802.11n ht40 Band Edge, Left-1 Side



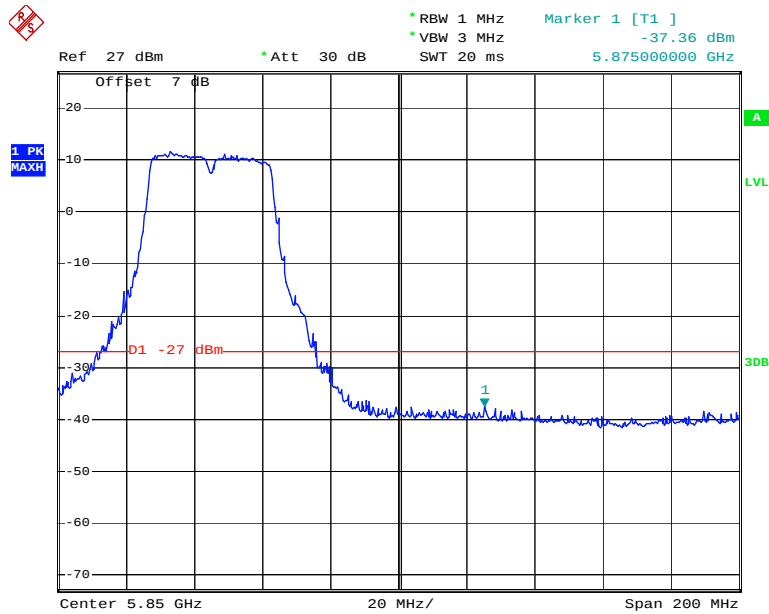
Date: 17.NOV.2014 14:30:19

Antenna2 802.11n ht40 Band Edge, Left-2 Side



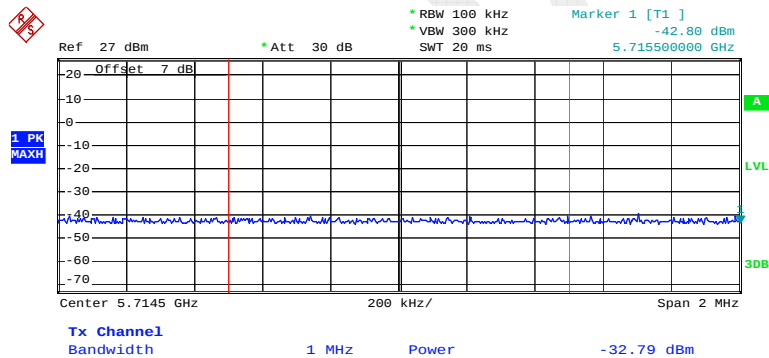
Date: 17.NOV.2014 14:30:52

Antenna2 802.11n ht40 Band Edge, Right Side



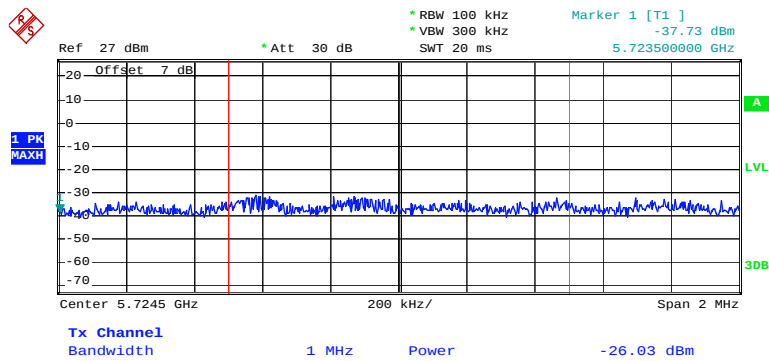
Date: 17.NOV.2014 14:38:53

Antenna2 802.11n ac80 Band Edge, Left-1 Side



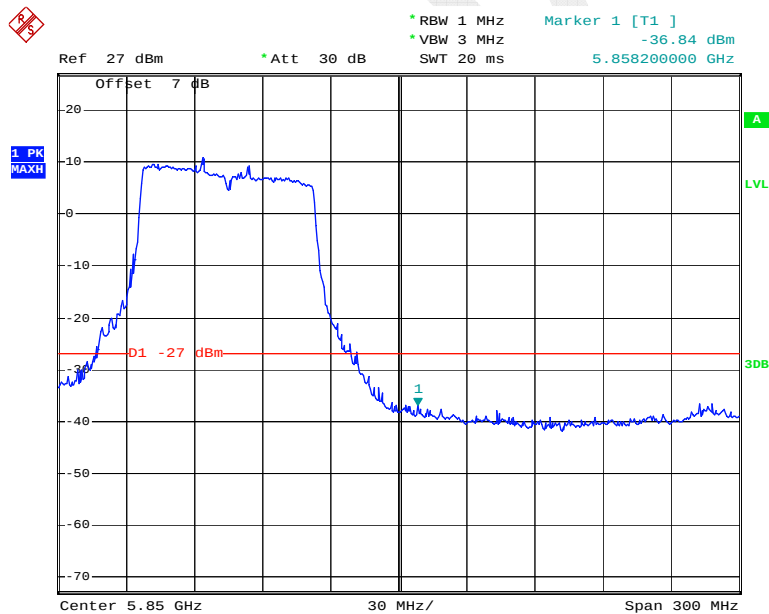
Date: 17.NOV.2014 14:43:59

Antenna2 802.11n ac80 Band Edge, Left-2 Side



Date: 17.NOV.2014 14:44:52

Antenna2 802.11n ac80 Band Edge, Right Side



Date: 17.NOV.2014 14:41:13

FCC §15.407(a)(e) –EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH**Applicable Standard**

15.407(a)(e)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01

Test Data**Environmental Conditions**

Temperature:	25.4°C ~26.1 °C
Relative Humidity:	44%~51 %
ATM Pressure:	101.2 kPa ~101.7 kPa

The testing was performed by Sevin Liu from 2014-11-13 to 2014-11-18.

Test Result: Pass.

Please refer to the following tables and plots.

Test mode: Transmitting

5150MHz-5250MHz:

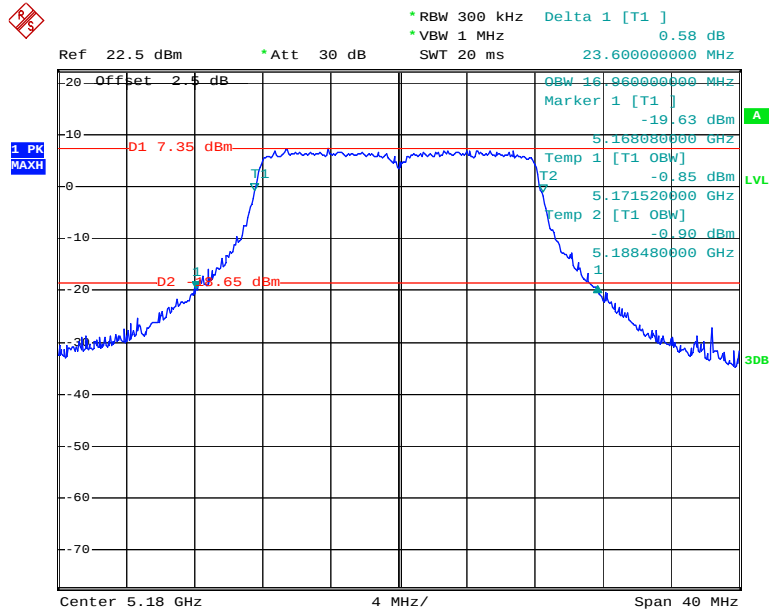
Mode	Channel	Frequency	26 dB Bandwidth (MHz)		
		MHz	Chain 0	Chain 1	Chain 2
802.11a	Low	5180	23.60	24.80	23.44
	Middle	5200	23.20	24.00	23.36
	High	5240	23.28	23.76	24.11
802.11n20	Low	5180	23.60	25.36	24.00
	Middle	5200	24.00	23.76	23.44
	High	5240	23.84	24.40	23.36
802.11n40	Low	5190	44.00	44.80	44.00
	High	5230	44.00	43.68	44.32
802.11ac80	Low	5210	87.36	86.72	86.40

5725MHz-5850MHz:

Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Results
			Chain 0	Chain 1	Chain 2	Limit	
802.11a	Low	5745	16.56	16.56	16.56	0.5	Pass
	Middle	5785	16.56	16.56	16.56	0.5	Pass
	High	5825	16.56	16.56	16.56	0.5	Pass
802.11n20	Low	5745	17.84	17.68	17.84	0.5	Pass
	Middle	5785	17.76	17.76	17.76	0.5	Pass
	High	5825	17.68	17.84	17.68	0.5	Pass
802.11n40	Low	5755	36.16	36.64	36.48	0.5	Pass
	High	5795	36.80	36.80	36.48	0.5	Pass
802.11ac80	Low	5775	73.60	76.16	76.48	0.5	Pass

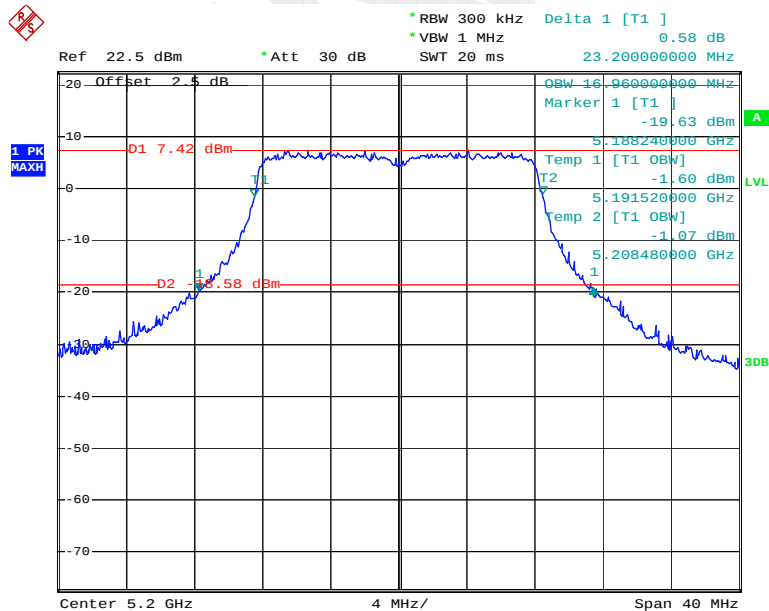
5150MHz-5250MHz:

Antenna0 802.11a Low Channel



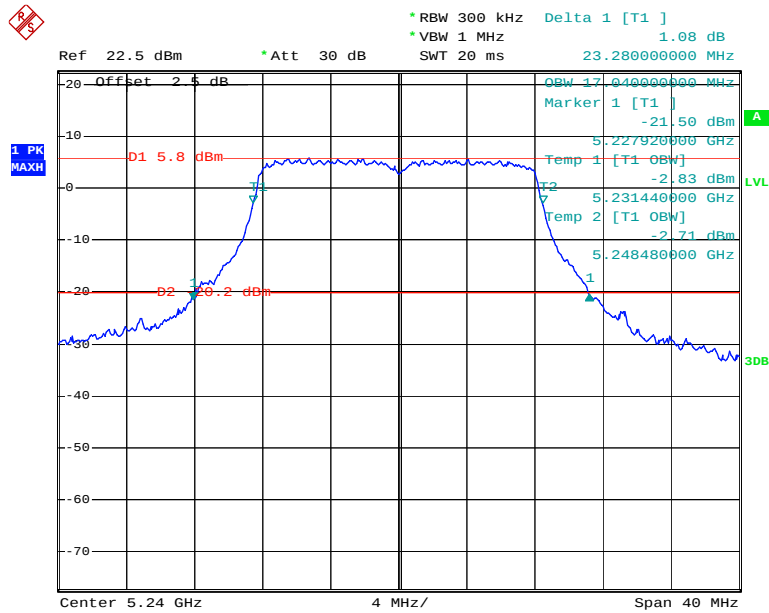
Date: 18.NOV.2014 12:13:59

Antenna0 802.11a Middle Channel



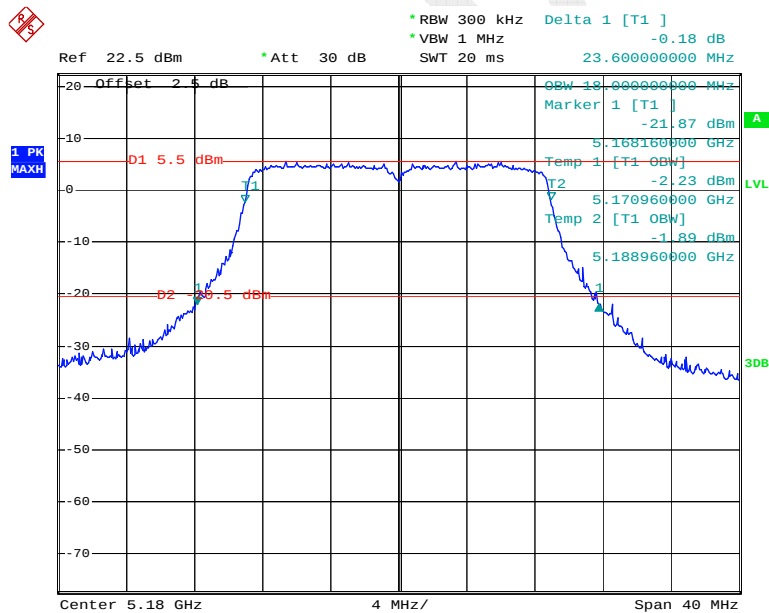
Date: 18.NOV.2014 12:15:10

Antenna0 802.11a High Channel



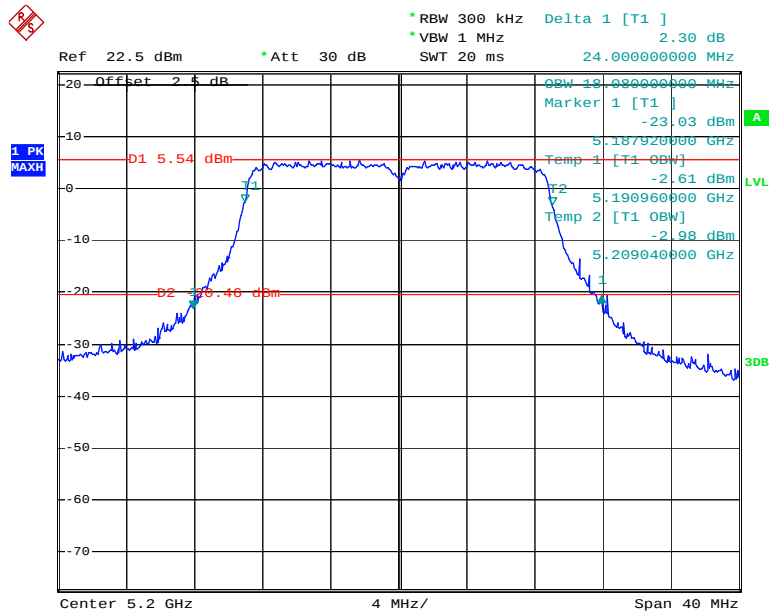
Date: 18.NOV.2014 12:23:31

Antenna0 802.11n ht20 Low Channel



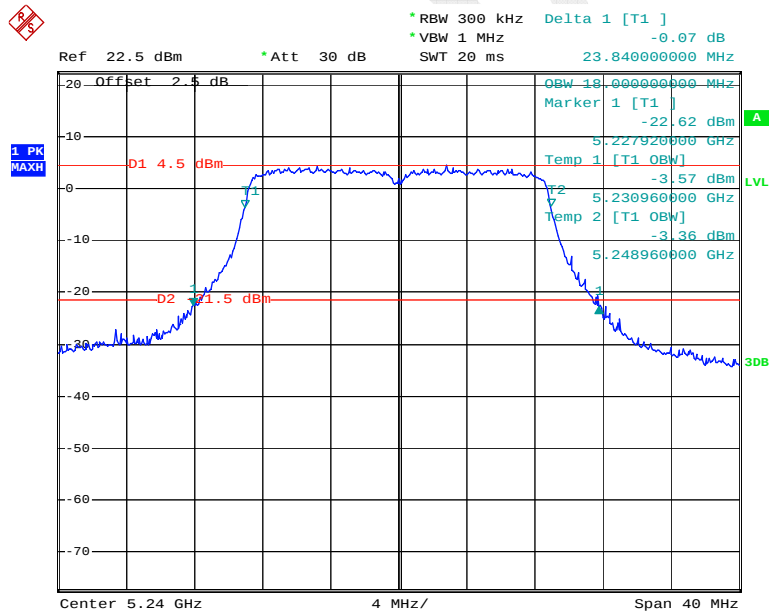
Date: 18.NOV.2014 12:24:49

Antenna0 802.11n ht20 Middle Channel



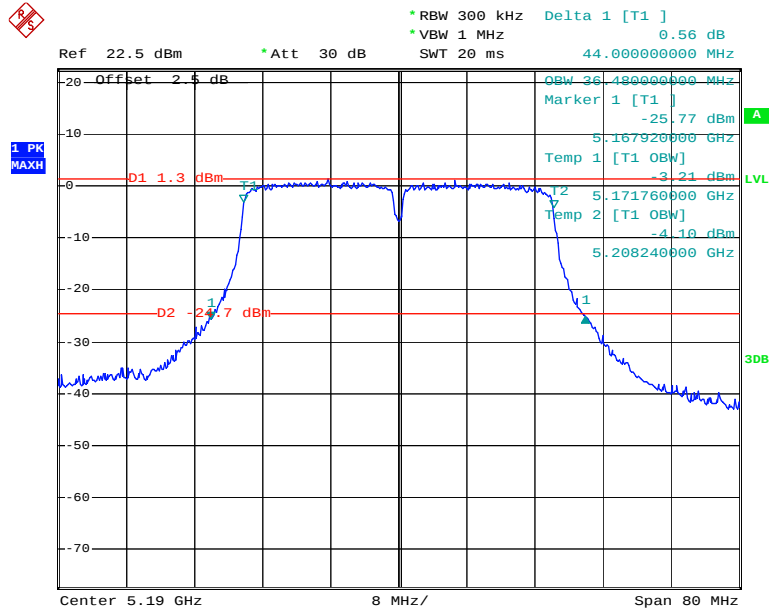
Date: 18.NOV.2014 12:25:58

Antenna0 802.11n ht20 High Channel



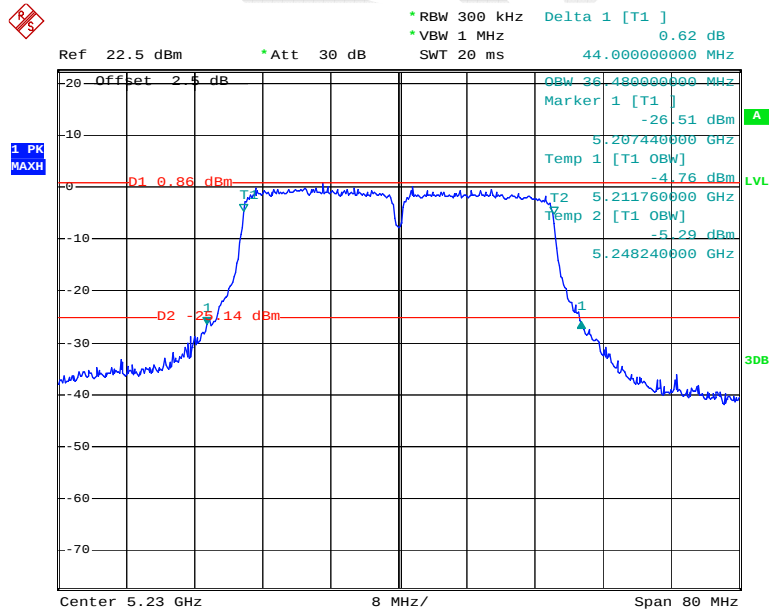
Date: 18.NOV.2014 12:27:11

Antenna0 802.11n ht40 Low Channel



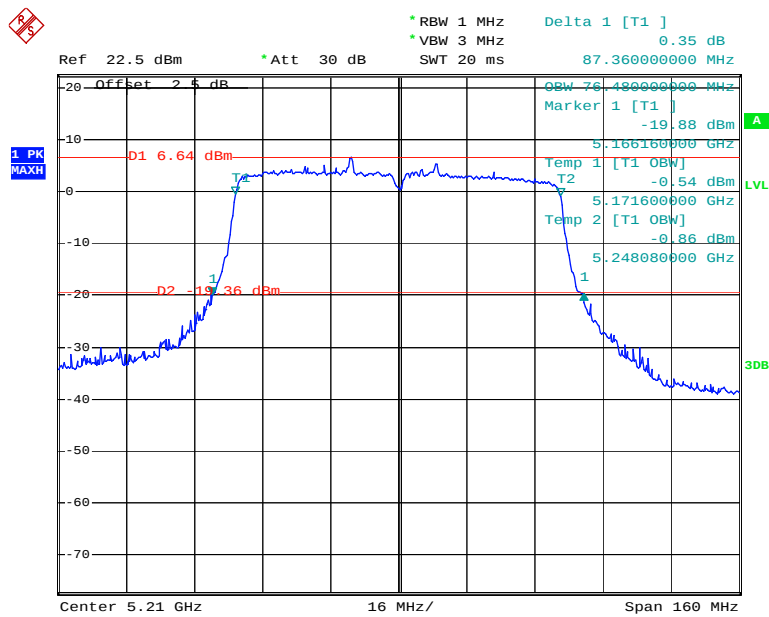
Date: 18.NOV.2014 12:28:13

Antenna0 802.11n ht40 High Channel



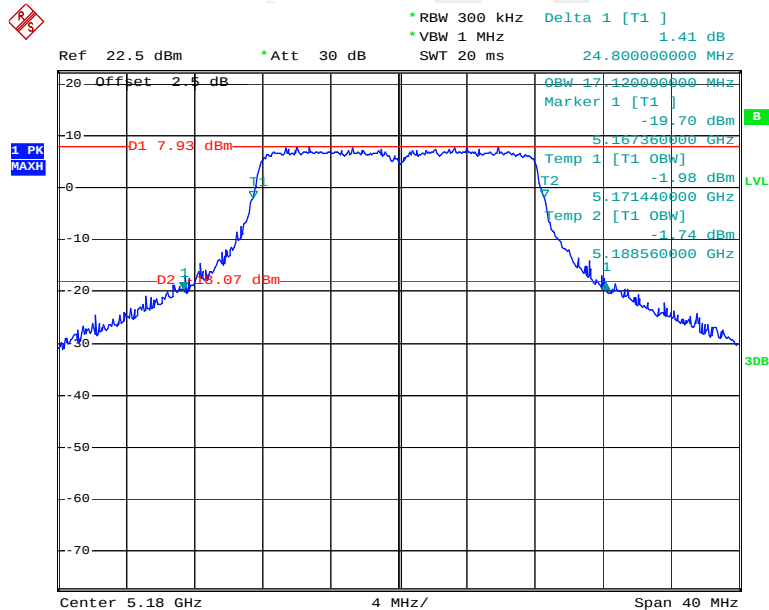
Date: 18.NOV.2014 12:30:40

Antenna0 802.11n ac80 Low Channel



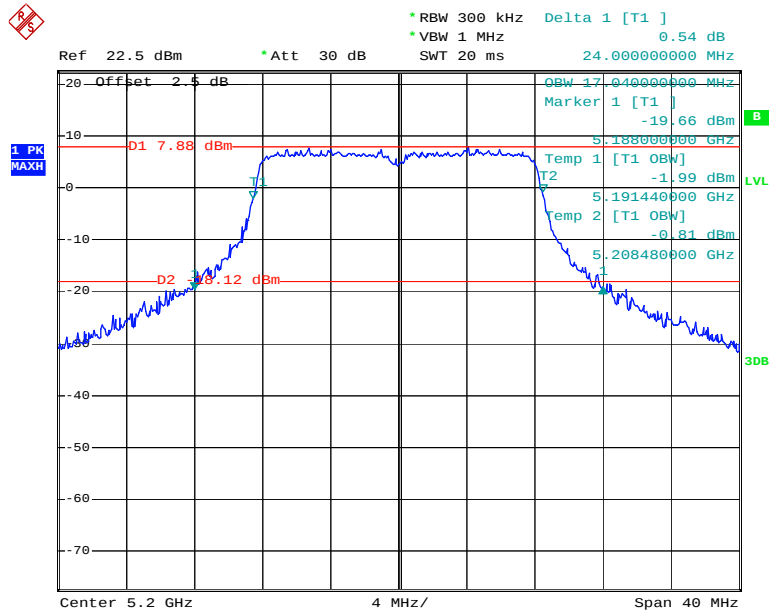
Date: 18.NOV.2014 12:33:44

Antenna1 802.11a Low Channel



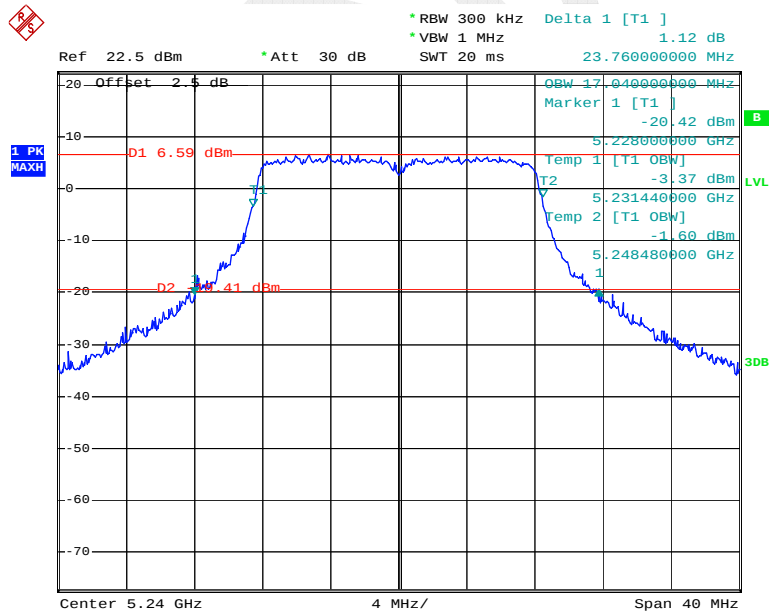
Date: 17.NOV.2014 18:46:19

Antenna1 802.11a Middle Channel



Date: 17.NOV.2014 18:47:38

Antenna1 802.11a High Channel

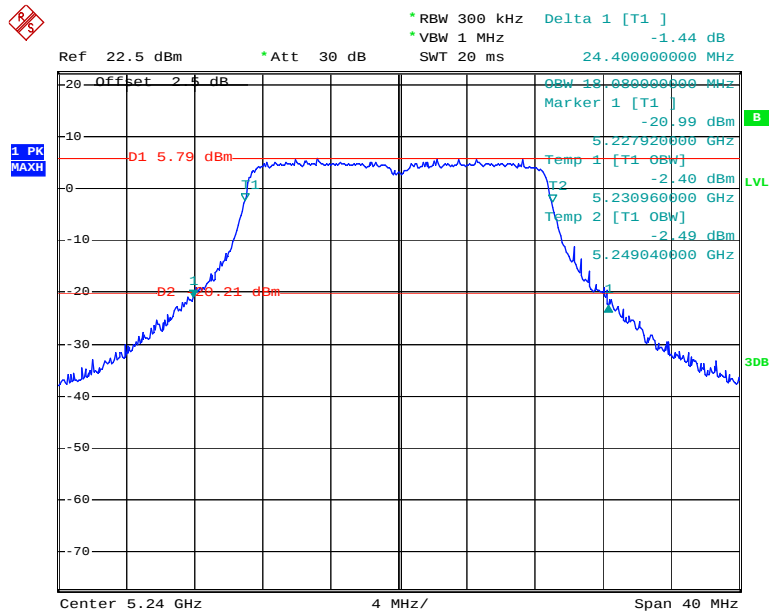


Date: 17.NOV.2014 18:48:35



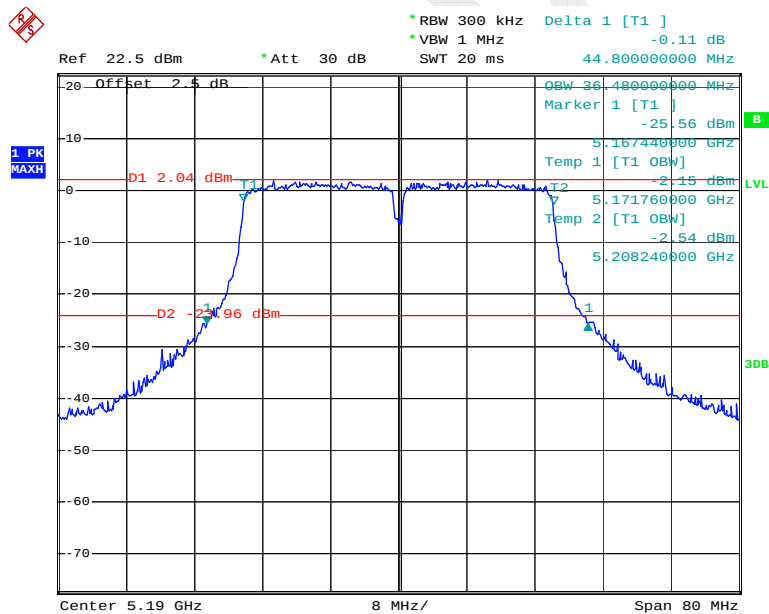
Page 185 of 268

Antenna1 802.11n ht20 High Channel



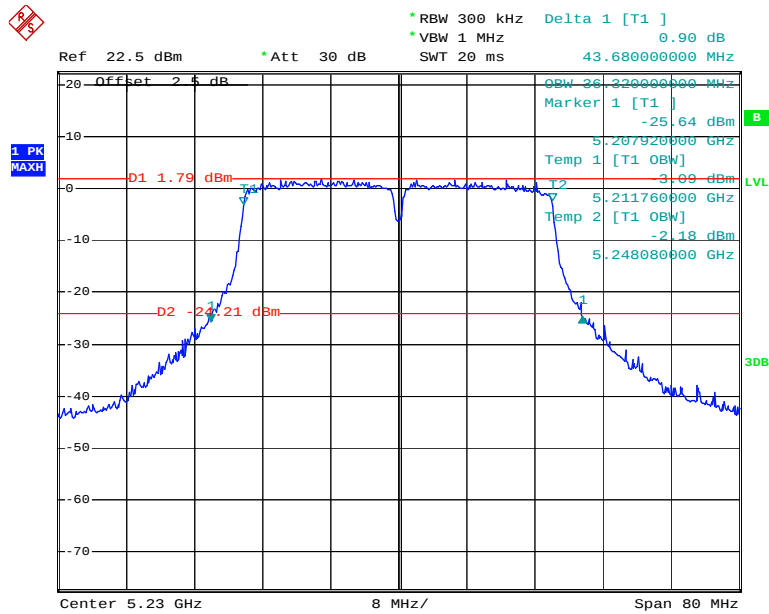
Date: 17.NOV.2014 18:56:40

Antenna1 802.11n ht40 Low Channel



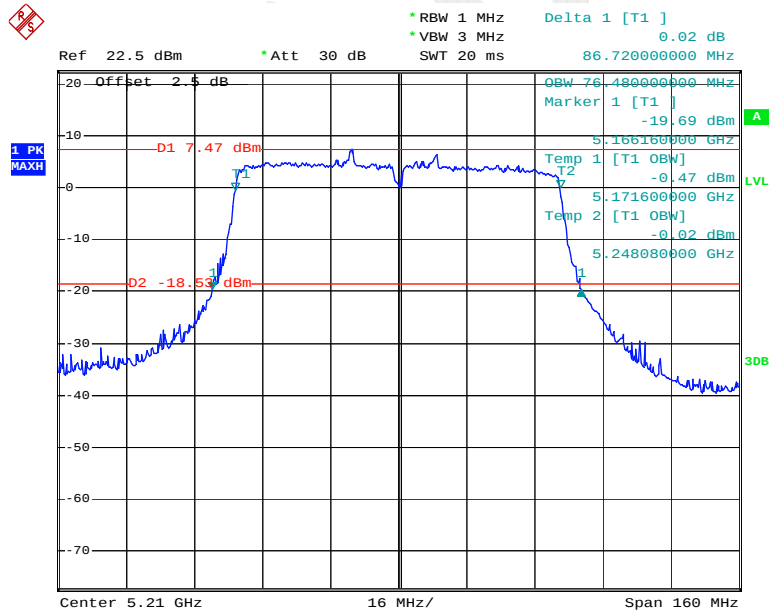
Date: 17.NOV.2014 18:58:48

Antenna1 802.11n ht40 High Channel



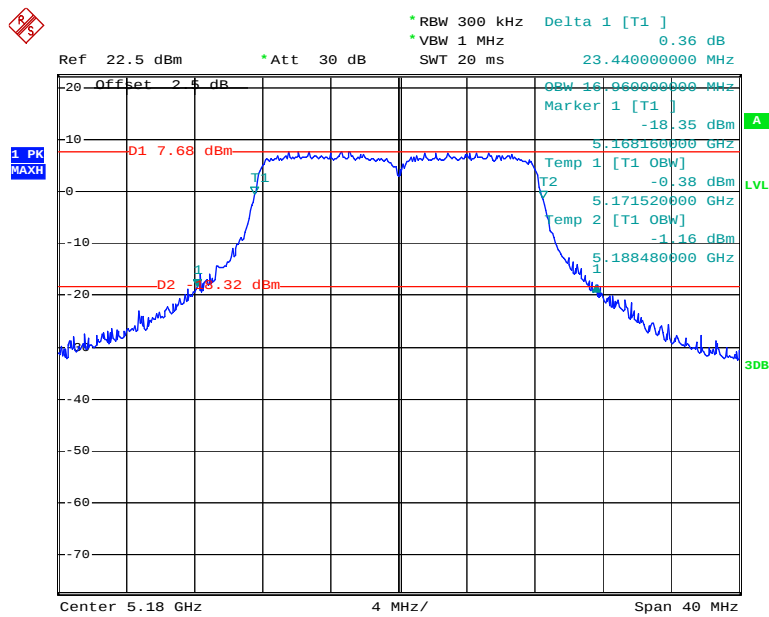
Date: 17.NOV.2014 19:01:58

Antenna1 802.11n ac80 Low Channel



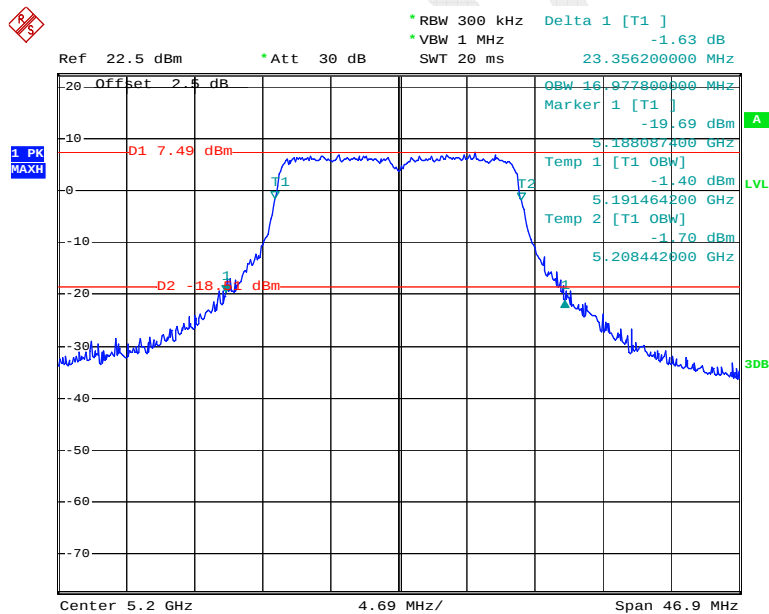
Date: 17.NOV.2014 19:26:14

Antenna2 802.11a Low Channel



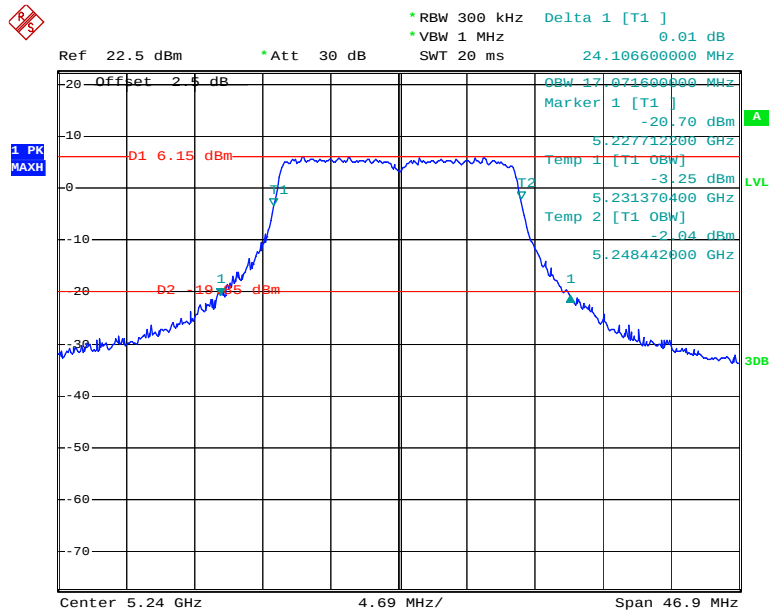
Date: 13.NOV.2014 22:17:48

Antenna2 802.11a Middle Channel



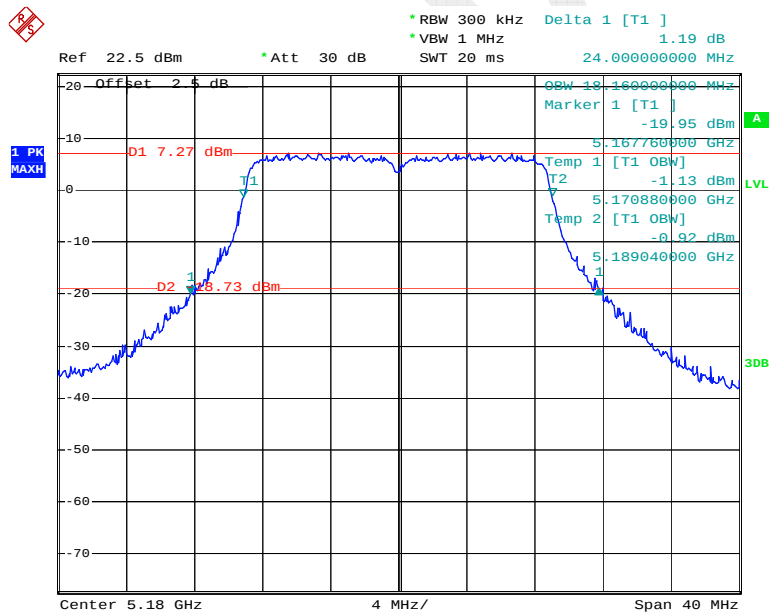
Date: 13.NOV.2014 22:22:00

Antenna2 802.11a High Channel



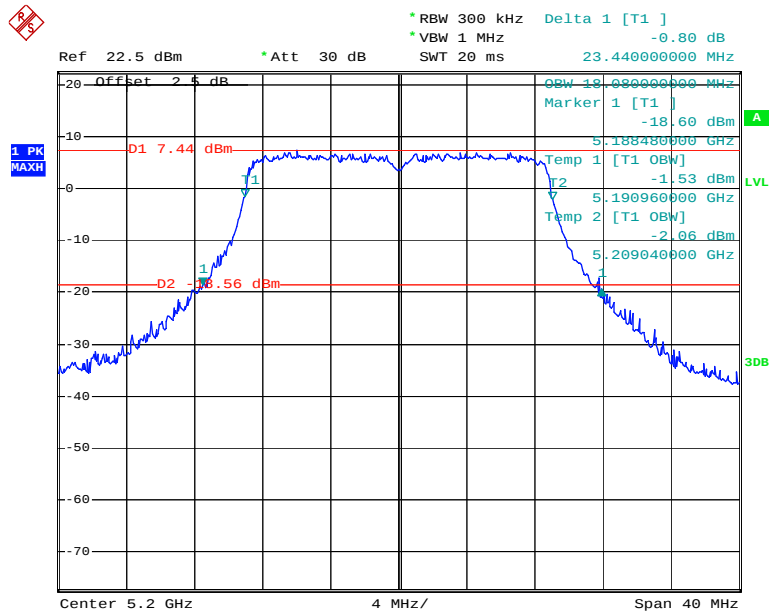
Date: 13.NOV.2014 22:23:56

Antenna2 802.11n ht20 Low Channel



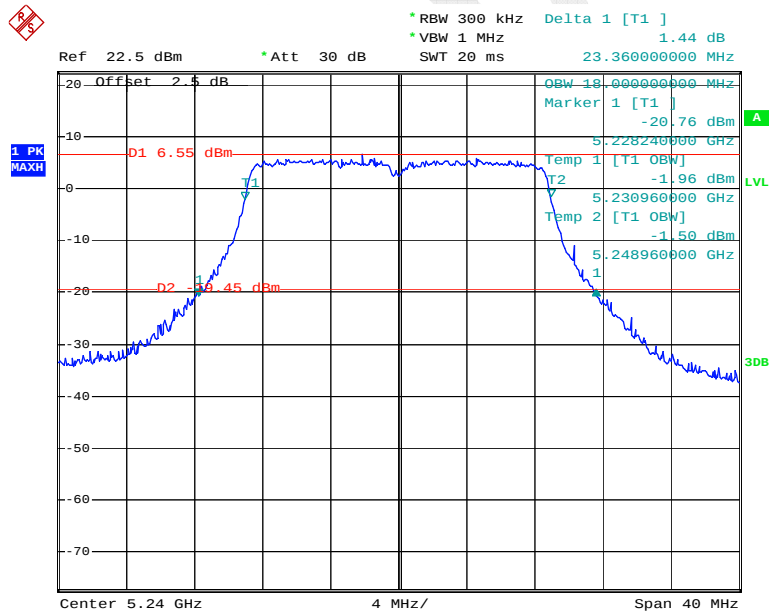
Date: 13.NOV.2014 22:57:54

Antenna2 802.11n ht20 Middle Channel



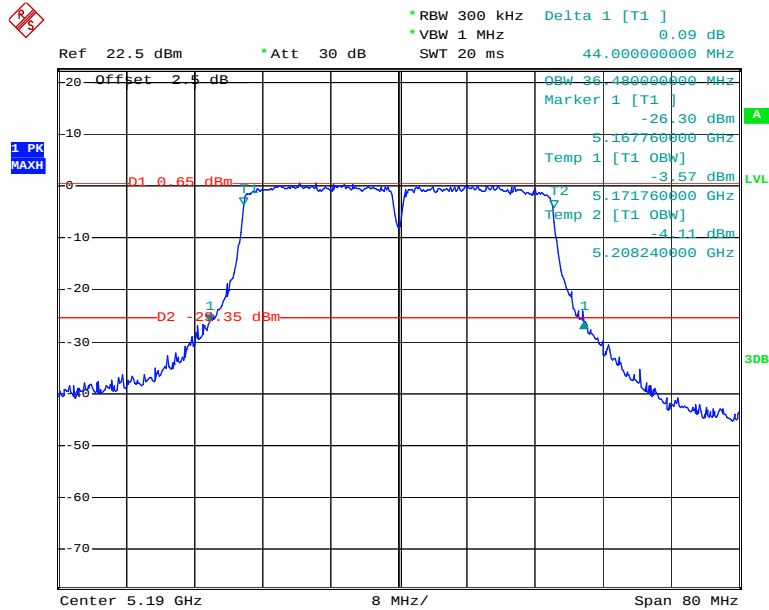
Date: 13.NOV.2014 22:59:08

Antenna2 802.11n ht20 High Channel



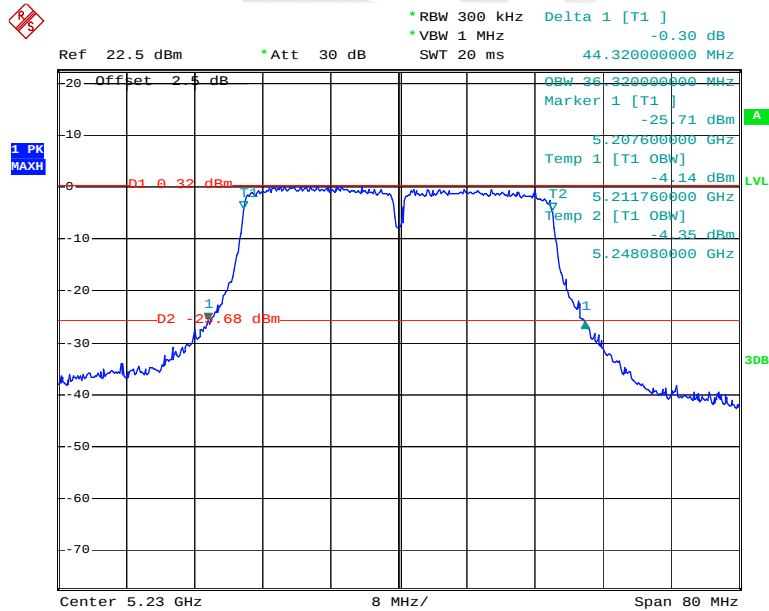
Date: 13.NOV.2014 23:01:19

Antenna2 802.11n ht40 Low Channel



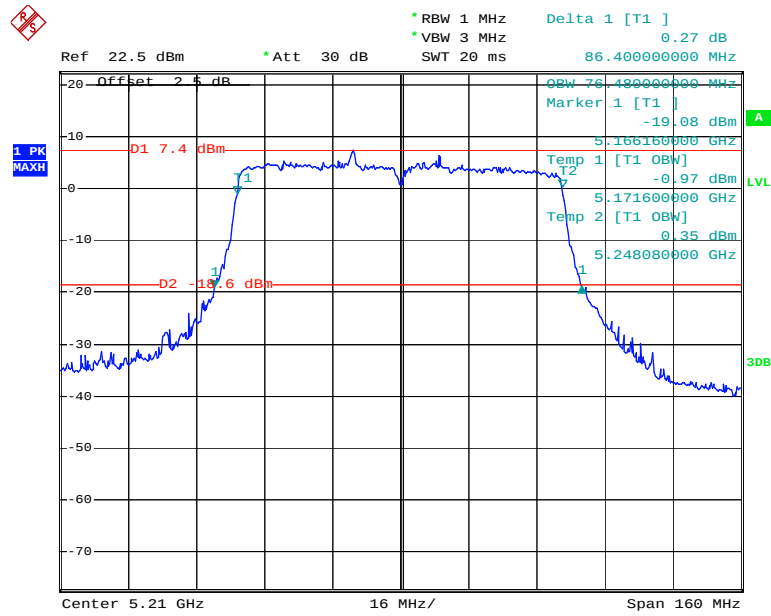
Date: 13.NOV.2014 23:34:25

Antenna2 802.11n ht40 High Channel



Date: 13.NOV.2014 23:37:23

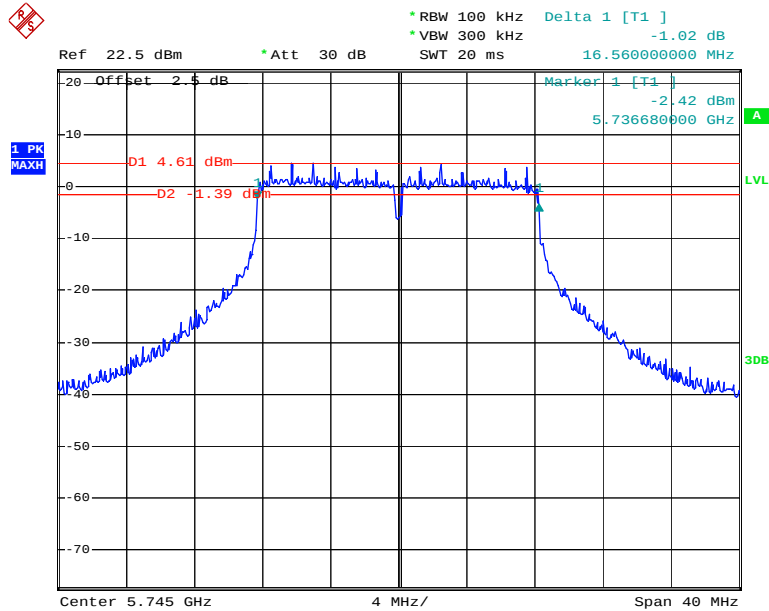
Antenna2 802.11n ac80 Low Channel



Date: 17.NOV.2014 19:30:14

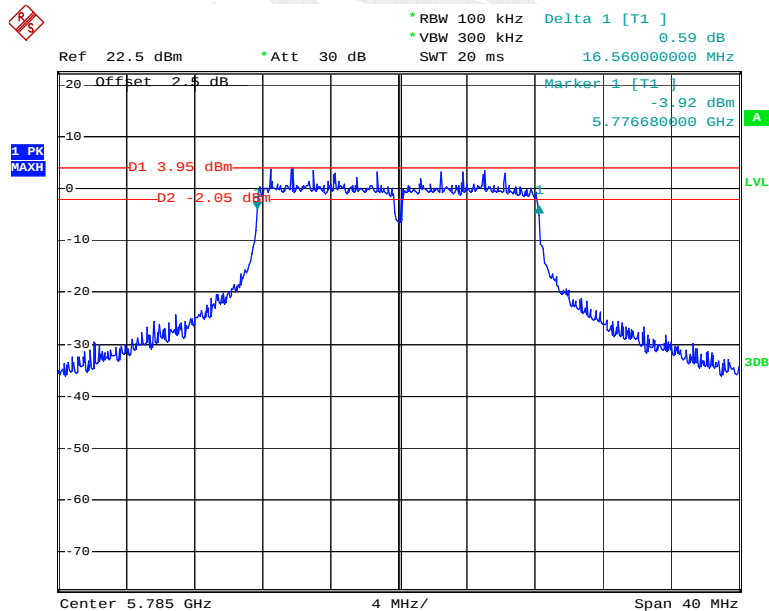
5725MHz-5850MHz:

Antenna0 802.11a Low Channel



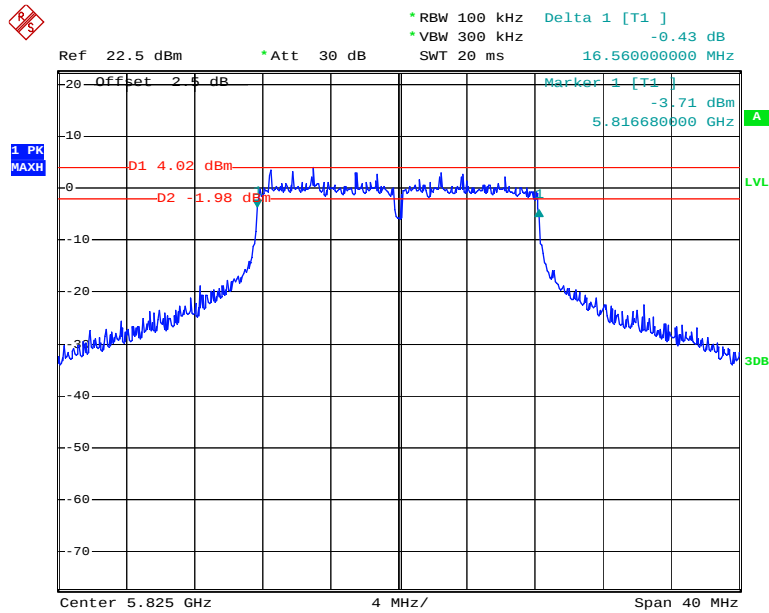
Date: 18.NOV.2014 00:10:33

Antenna0 802.11a Middle Channel



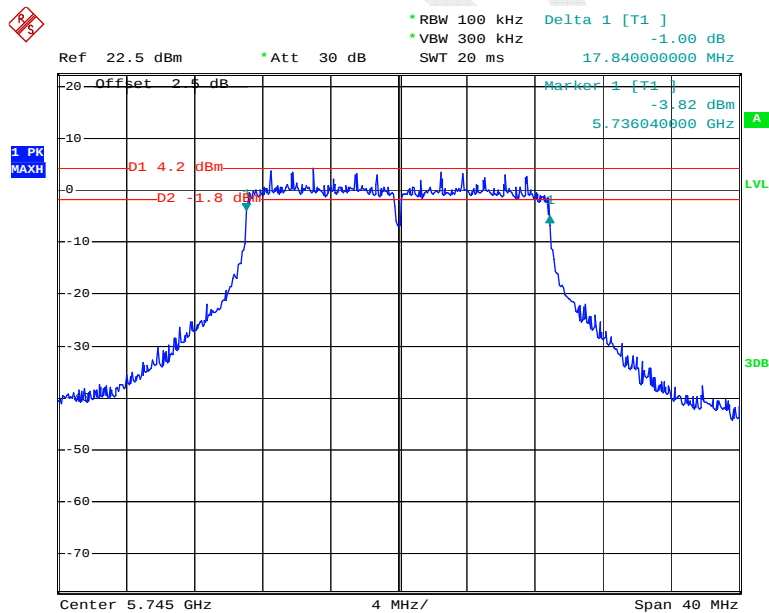
Date: 18.NOV.2014 00:11:33

Antenna0 802.11a High Channel



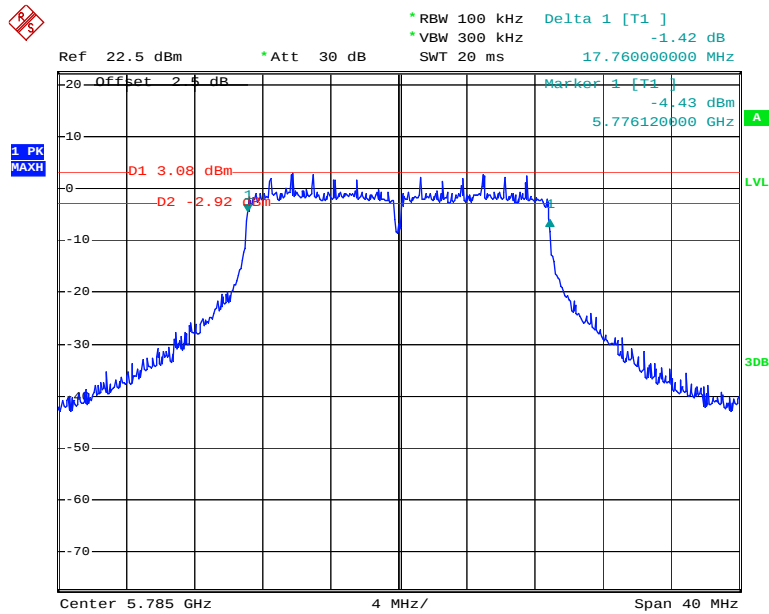
Date: 18.NOV.2014 00:12:22

Antenna0 802.11n ht20 Low Channel



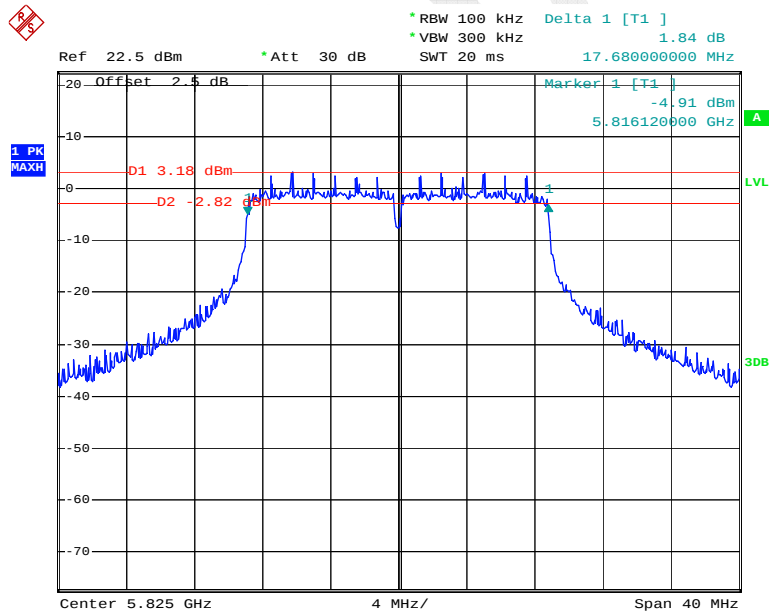
Date: 18.NOV.2014 00:13:31

Antenna0 802.11n ht20 Middle Channel



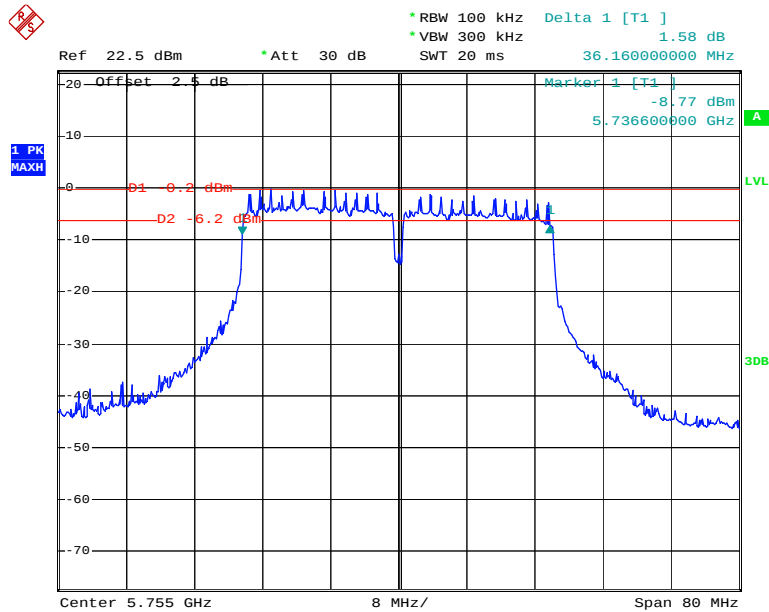
Date: 18.NOV.2014 00:14:25

Antenna0 802.11n ht20 High Channel



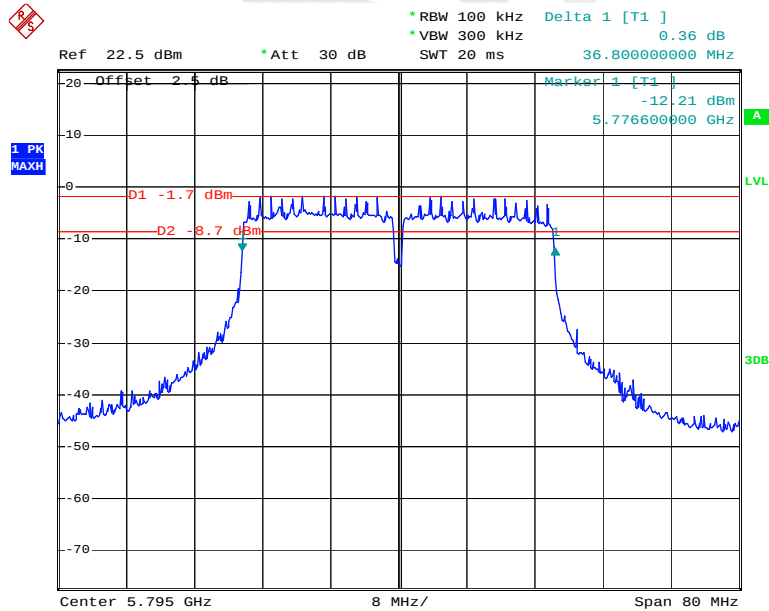
Date: 18.NOV.2014 00:16:09

Antenna0 802.11n ht40 Low Channel



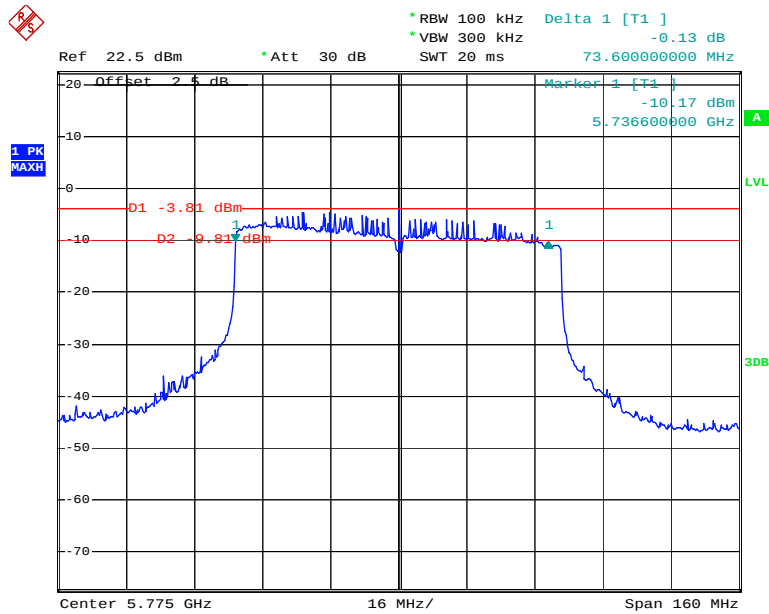
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Antenna0 802.11n ht40 High Channel



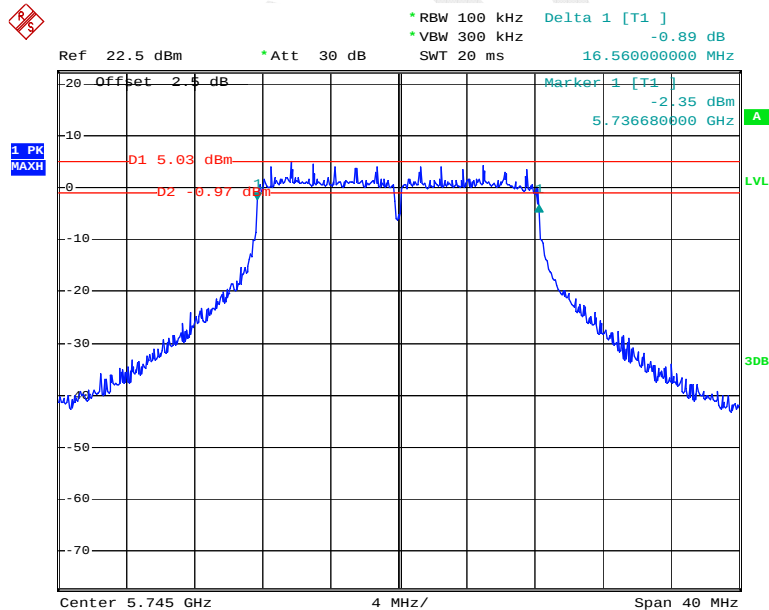
Date: 18.NOV.2014 00:21:39

Antenna0 802.11n ac80 Low Channel



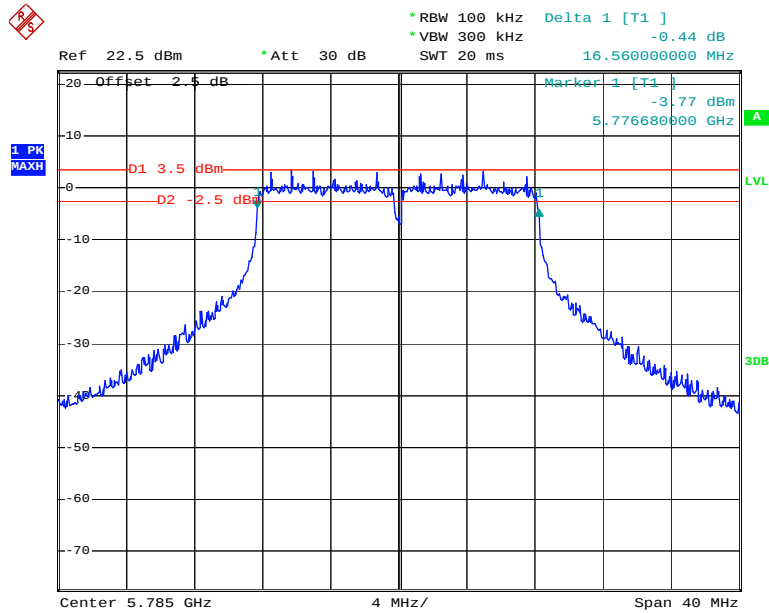
Date: 18.NOV.2014 00:26:21

Antenna1 802.11a Low Channel



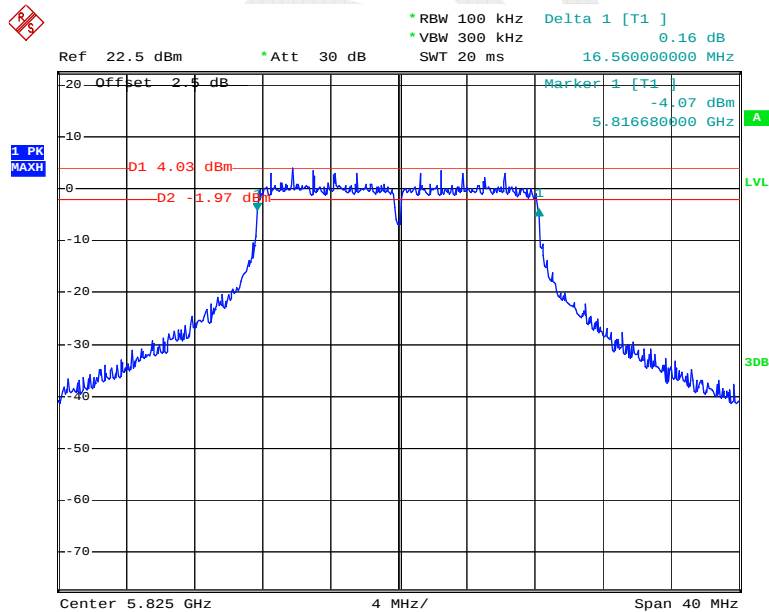
Date: 14.NOV.2014 12:29:58

Antenna1 802.11a Middle Channel



Date: 14.NOV.2014 12:26:38

Antenna1 802.11a High Channel

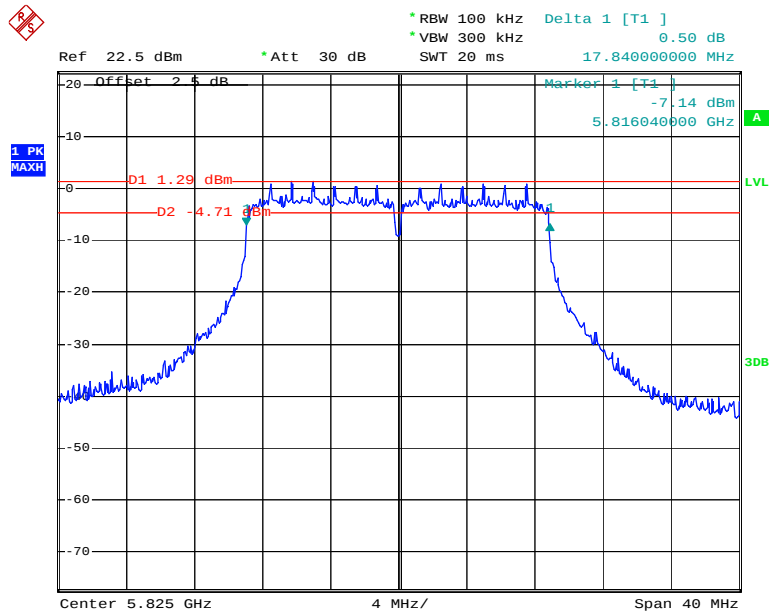


Date: 14.NOV.2014 12:25:26



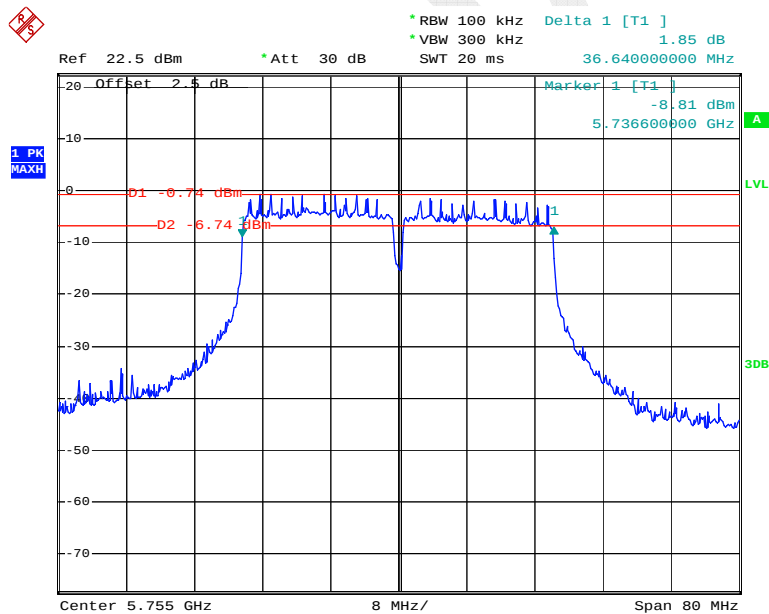
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Antenna1 802.11n ht20 High Channel



Date: 17.NOV.2014 17:05:46

Antenna1 802.11n ht40 Low Channel



Date: 17.NOV.2014 17:07:59