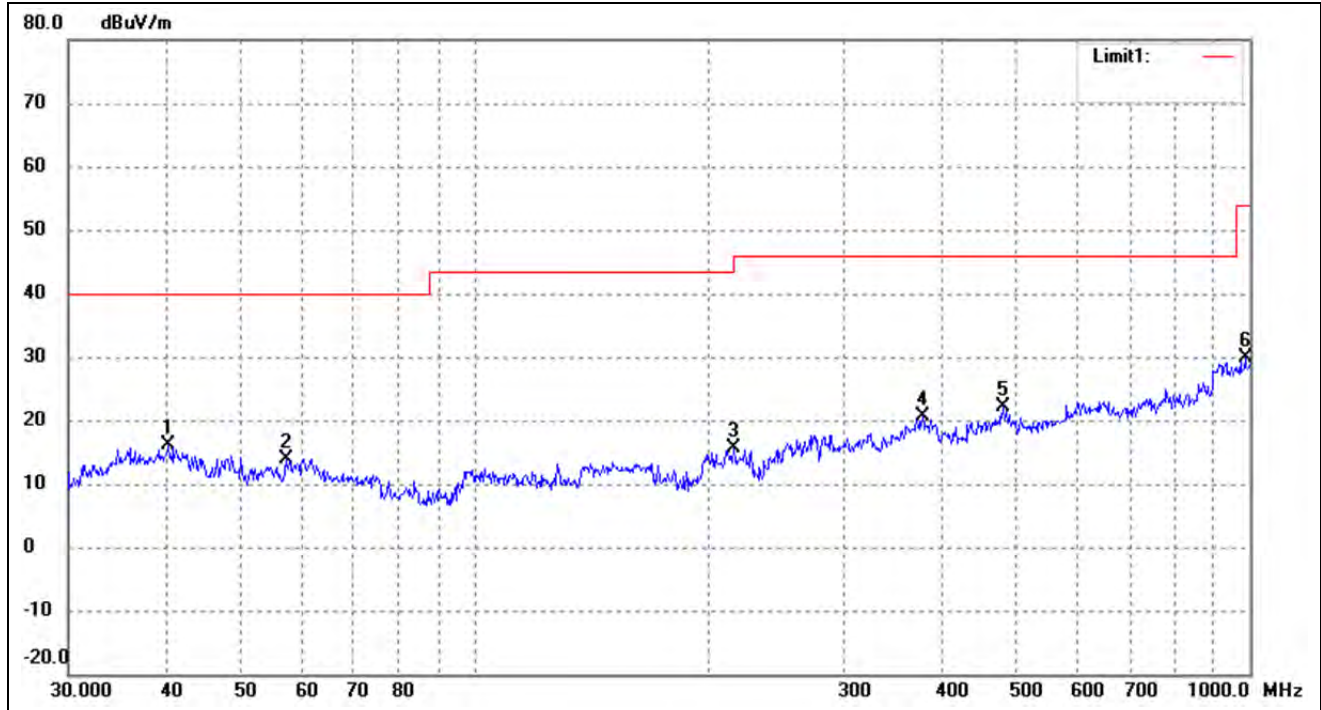


Operating Condition: 802.11n HT40 Transmitting

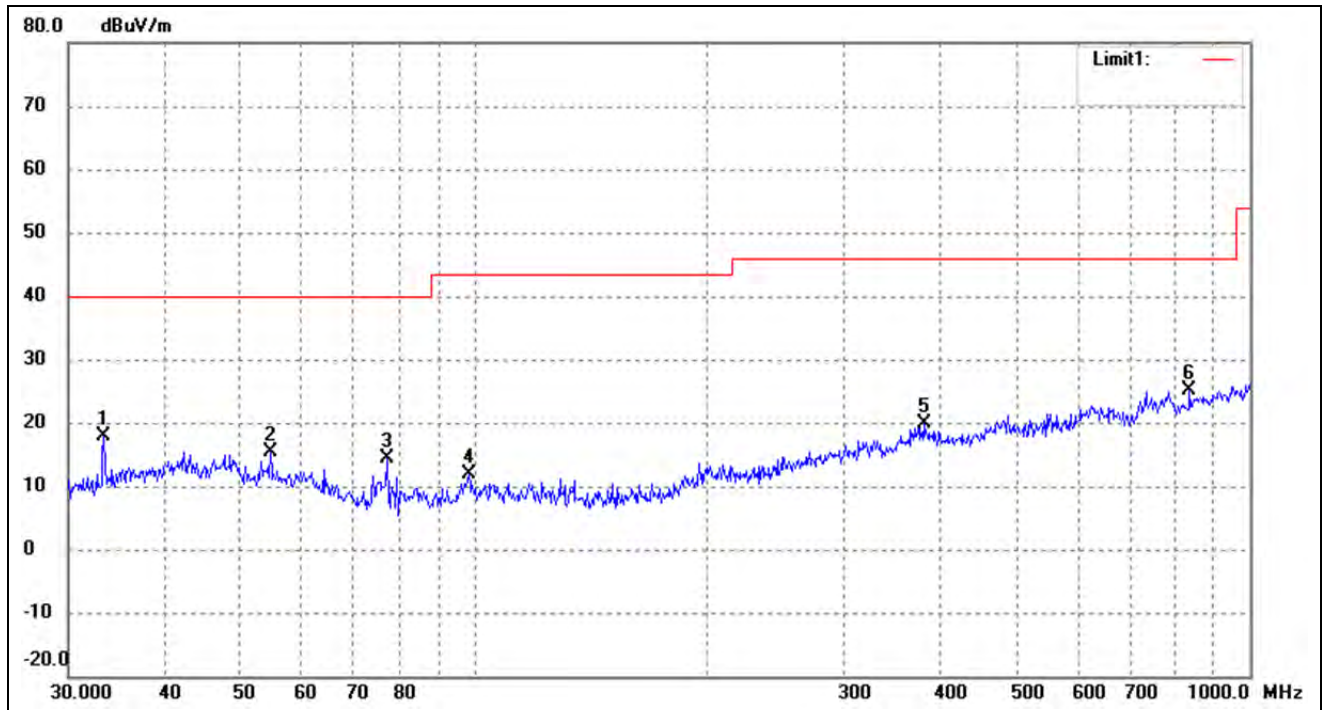
Comment: DC 7.6V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	40.4172	23.89	-7.70	16.19	40.00	-23.81	104	100	peak
2	57.1914	23.21	-9.22	13.99	40.00	-26.01	211	100	peak
3	216.0240	24.55	-8.81	15.74	46.00	-30.26	64	100	peak
4	378.5843	22.70	-2.17	20.53	46.00	-25.47	299	100	peak
5	480.5276	23.15	-1.08	22.07	46.00	-23.93	76	100	peak
6	986.0717	25.80	4.16	29.96	54.00	-24.04	347	100	peak

Test Specification: Vertical



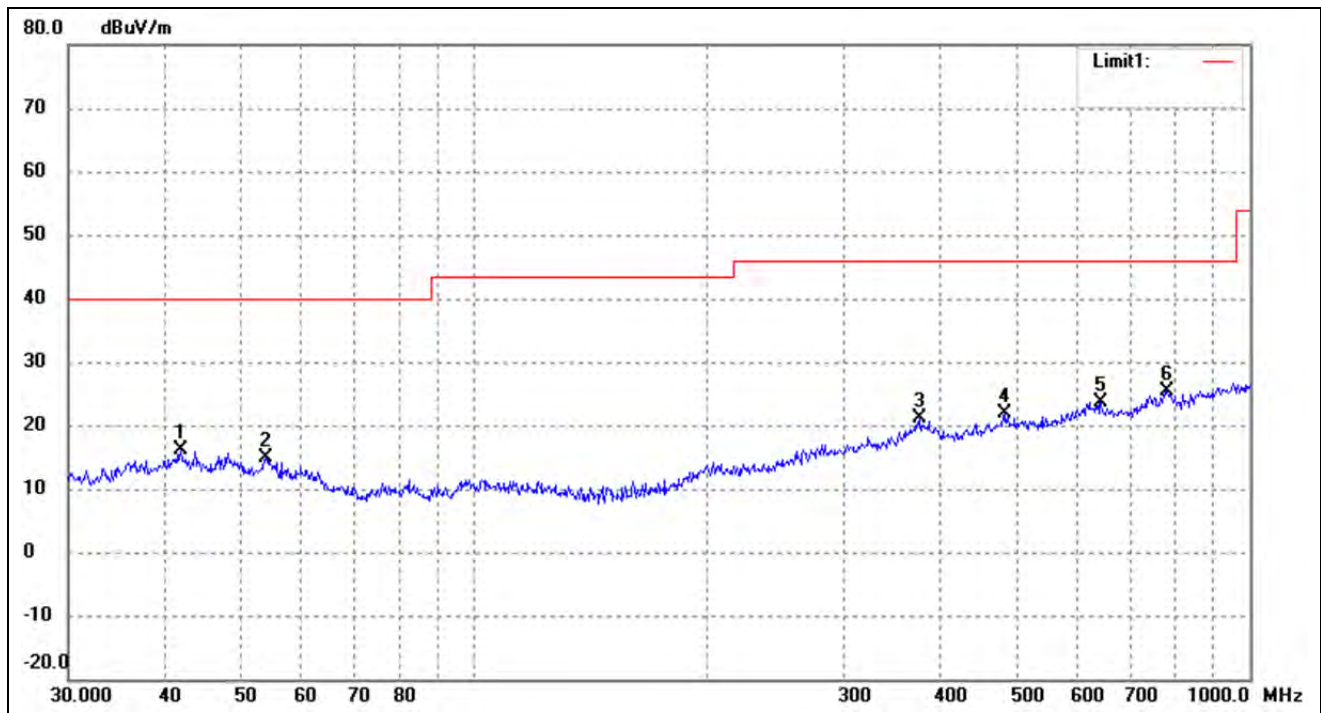
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	27.24	-9.46	17.78	40.00	-22.22	185	100	peak
2	54.6429	24.23	-8.91	15.32	40.00	-24.68	276	100	peak
3	77.3212	26.57	-12.21	14.36	40.00	-25.64	81	100	peak
4	98.4866	23.13	-11.21	11.92	43.50	-31.58	297	100	peak
5	379.9141	22.08	-2.11	19.97	46.00	-26.03	63	100	peak
6	836.2443	23.25	1.84	25.09	46.00	-20.91	308	100	peak

WiFi Antenna B

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

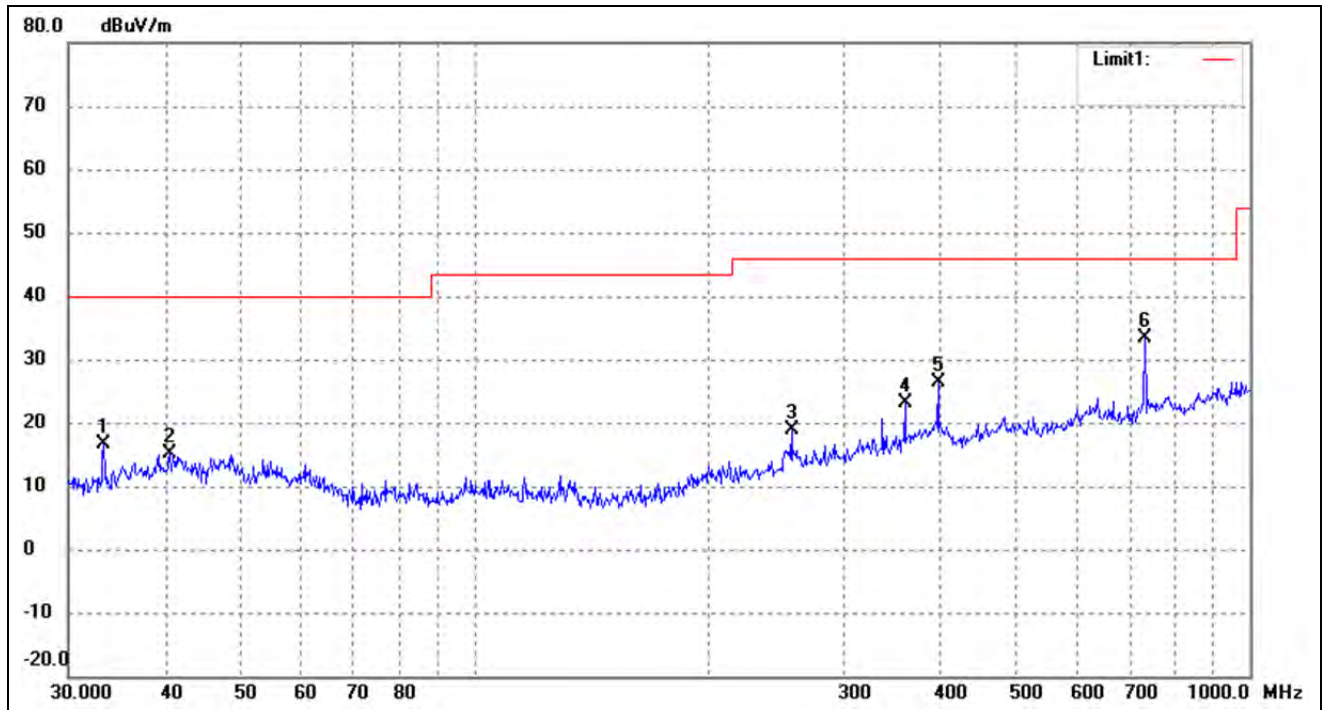
EUT: Notebook
Tested Model: NEBP12
Operating Condition: 802.11b Transmitting
Comment: DC 7.6V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.8596	23.85	-7.79	16.06	40.00	-23.94	279	100	peak
2	53.8818	23.75	-8.81	14.94	40.00	-25.06	96	100	peak
3	375.9385	23.42	-2.33	21.09	46.00	-24.91	55	100	peak
4	483.9094	23.03	-1.27	21.76	46.00	-24.24	93	100	peak
5	642.8613	22.99	0.65	23.64	46.00	-22.36	208	100	peak
6	782.3453	22.63	2.78	25.41	46.00	-20.59	224	100	peak

Test Specification: Vertical

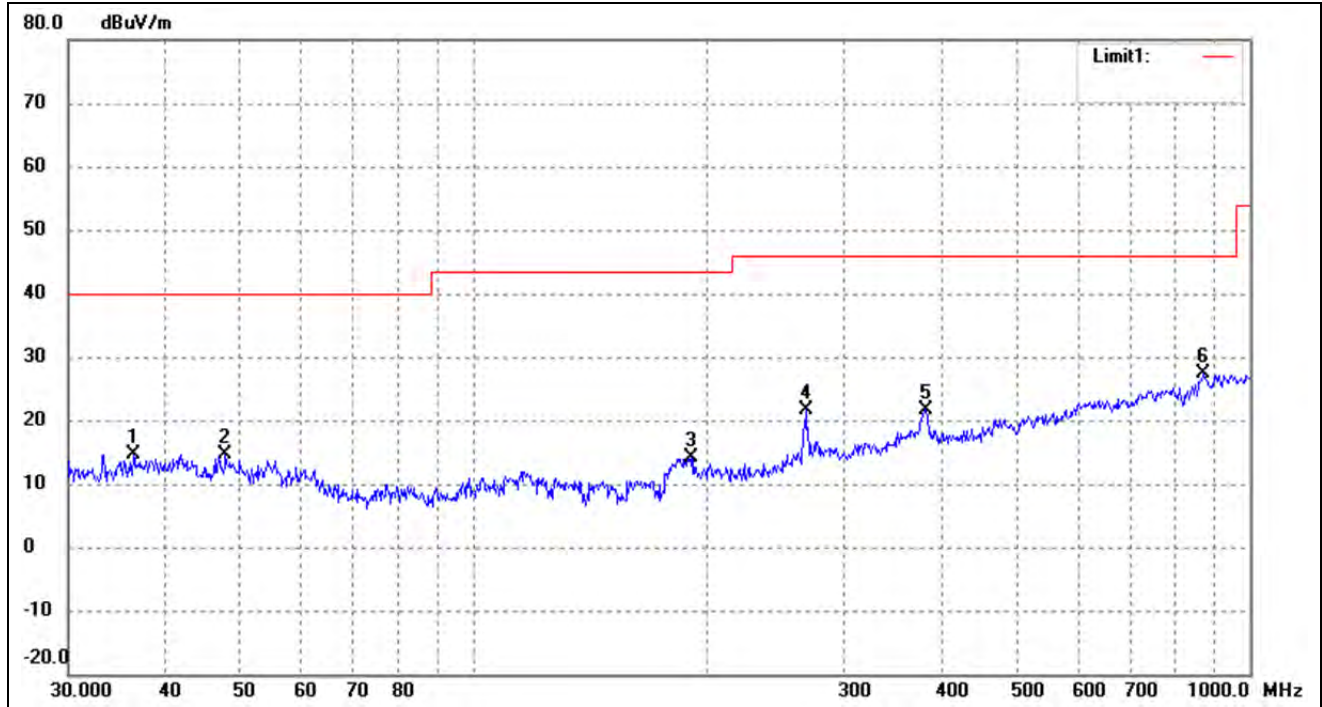


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	26.14	-9.46	16.68	40.00	-23.32	296	100	peak
2	40.5591	22.85	-7.70	15.15	40.00	-24.85	94	100	peak
3	256.5211	26.02	-7.18	18.84	46.00	-27.16	178	100	peak
4	359.1860	26.57	-3.32	23.25	46.00	-22.75	115	100	peak
5	396.2415	29.28	-2.95	26.33	46.00	-19.67	124	100	peak
6	731.9203	31.73	1.66	33.39	46.00	-12.61	275	100	peak

Operating Condition: 802.11g Transmitting

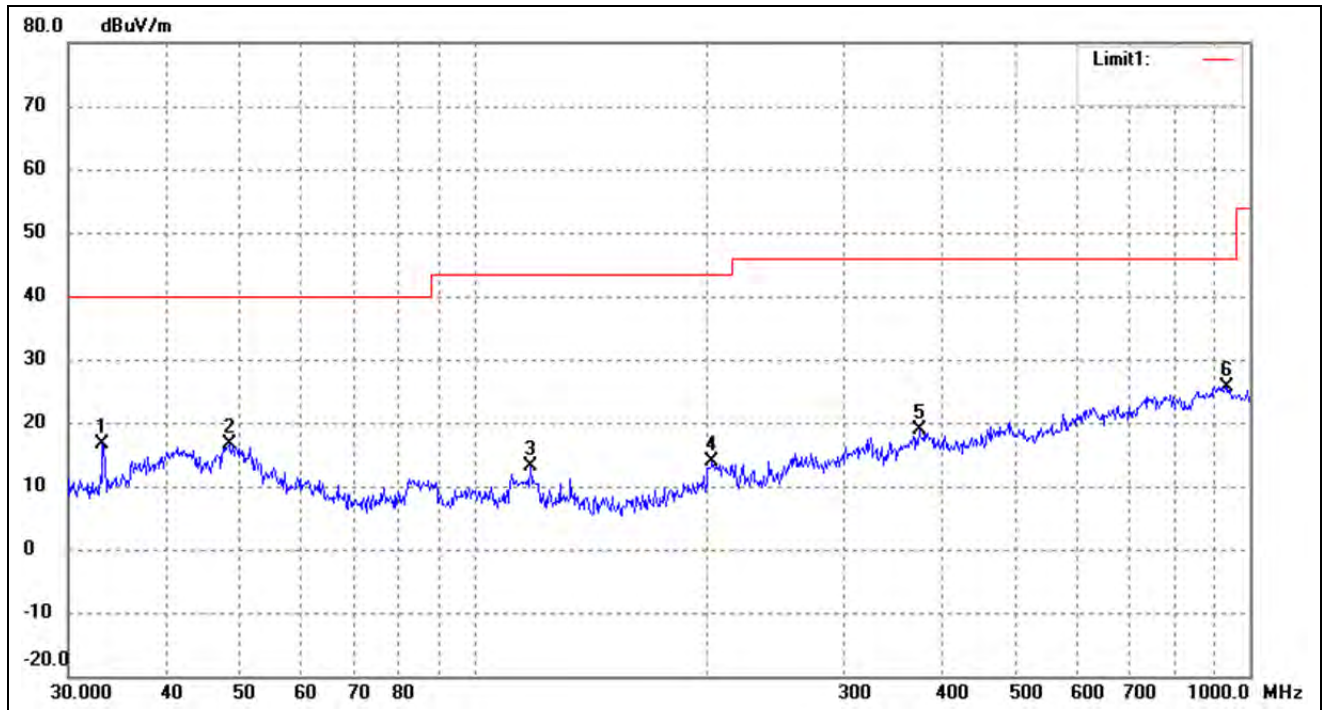
Comment: DC 7.6V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.3814	23.36	-8.66	14.70	40.00	-25.30	130	100	peak
2	47.8260	22.92	-8.18	14.74	40.00	-25.26	159	100	peak
3	190.4050	23.97	-9.96	14.01	43.50	-29.49	66	100	peak
4	267.5455	28.23	-6.63	21.60	46.00	-24.40	126	100	peak
5	382.5879	23.97	-2.23	21.74	46.00	-24.26	278	100	peak
6	872.1832	24.34	3.05	27.39	46.00	-18.61	154	100	peak

Test Specification: Vertical

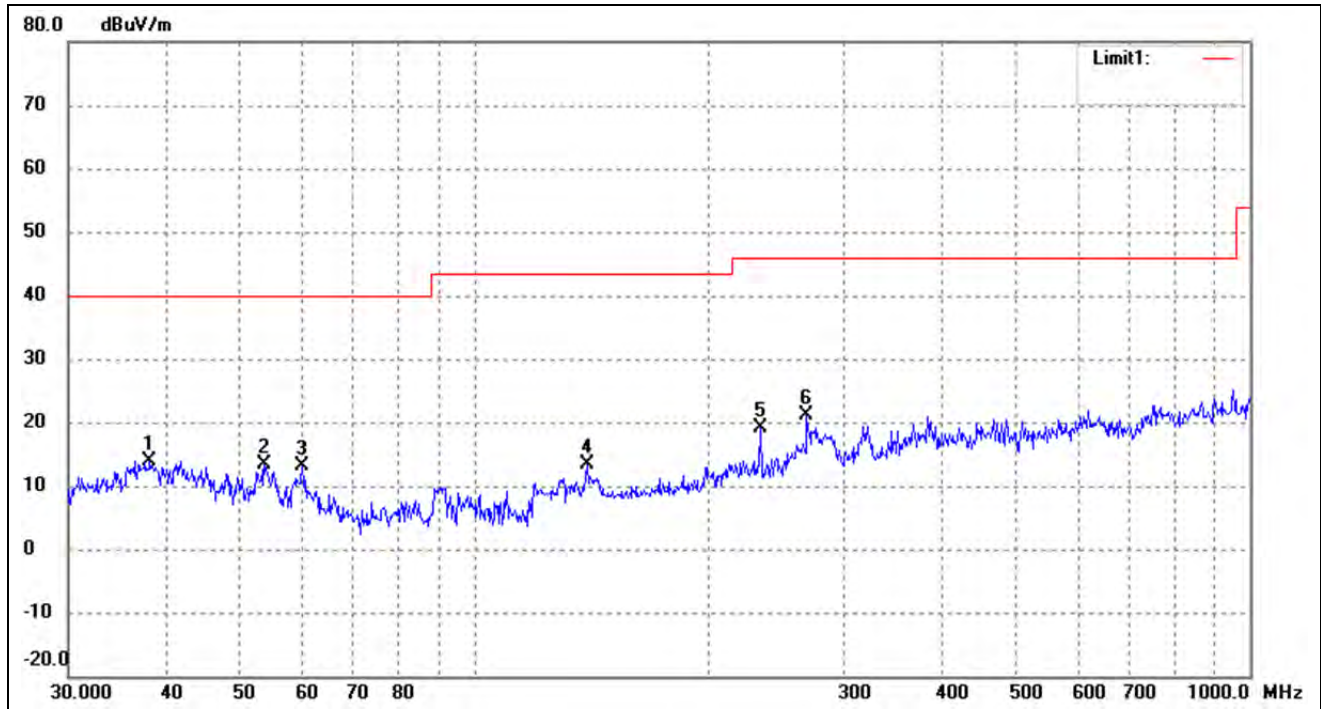


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.2112	26.04	-9.50	16.54	40.00	-23.46	87	100	peak
2	48.3318	24.80	-8.21	16.59	40.00	-23.41	179	100	peak
3	118.1862	24.59	-11.38	13.21	43.50	-30.29	122	100	peak
4	202.8104	22.51	-8.68	13.83	43.50	-29.67	106	100	peak
5	374.6226	21.32	-2.41	18.91	46.00	-27.09	255	100	peak
6	935.5463	21.57	4.13	25.70	46.00	-20.30	105	100	peak

Operating Condition: 802.11n HT20 Transmitting

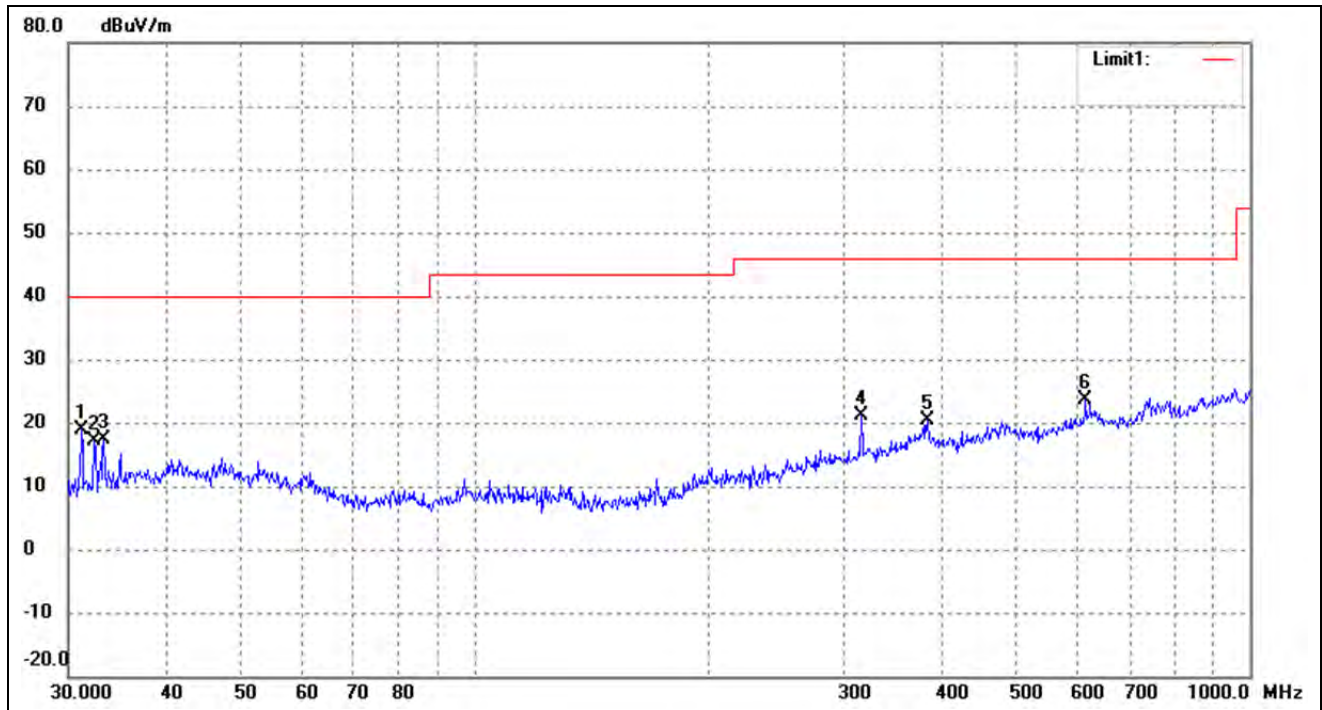
Comment: DC 7.6V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.2120	22.15	-8.16	13.99	40.00	-26.01	286	100	peak
2	53.6932	22.07	-8.78	13.29	40.00	-26.71	285	100	peak
3	60.0691	22.72	-9.60	13.12	40.00	-26.88	92	100	peak
4	139.8508	25.87	-12.55	13.32	43.50	-30.18	298	100	peak
5	234.1684	27.52	-8.48	19.04	46.00	-26.96	283	100	peak
6	268.4853	27.78	-6.59	21.19	46.00	-24.81	271	100	peak

Test Specification: Vertical

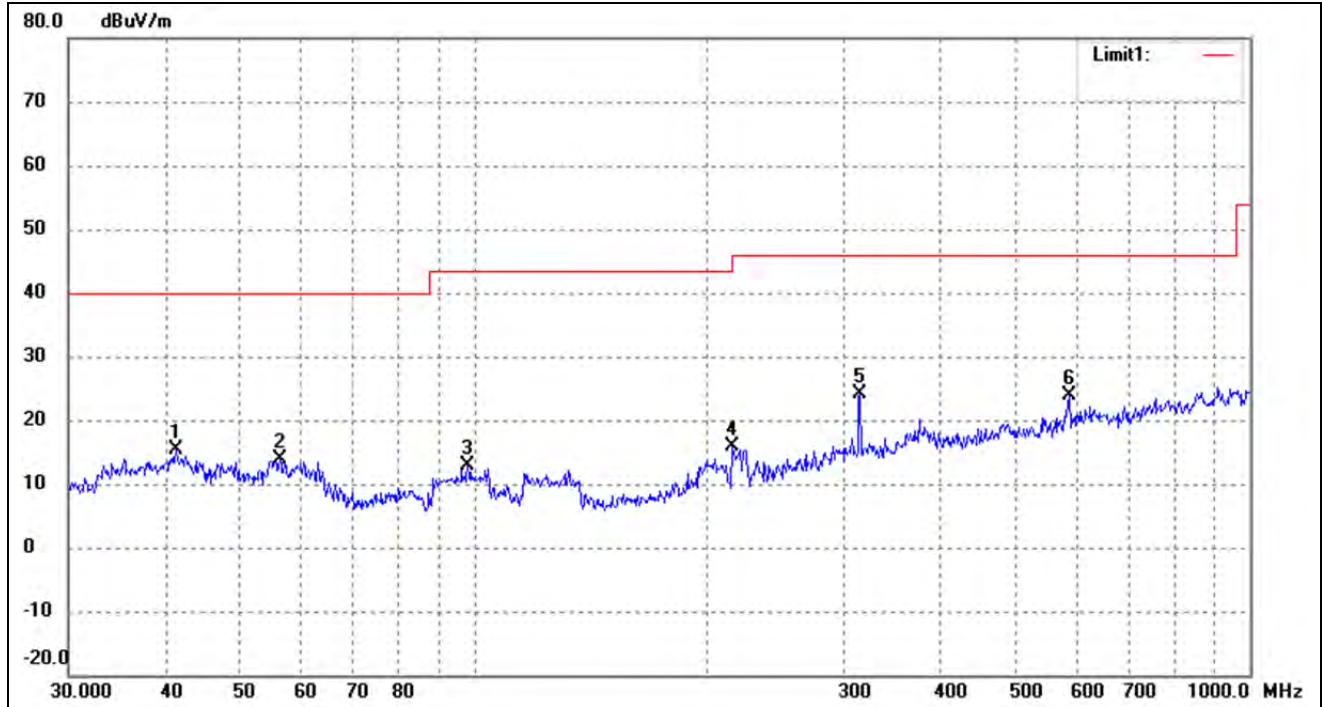


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.1798	28.97	-10.01	18.96	40.00	-21.04	198	100	peak
2	32.4059	26.89	-9.69	17.20	40.00	-22.80	96	100	peak
3	33.3279	26.87	-9.46	17.41	40.00	-22.59	90	100	peak
4	315.4808	26.08	-4.85	21.23	46.00	-24.77	271	100	peak
5	383.9318	22.78	-2.30	20.48	46.00	-25.52	99	100	peak
6	614.2142	22.78	0.83	23.61	46.00	-22.39	305	100	peak

Operating Condition: 802.11n HT40 Transmitting

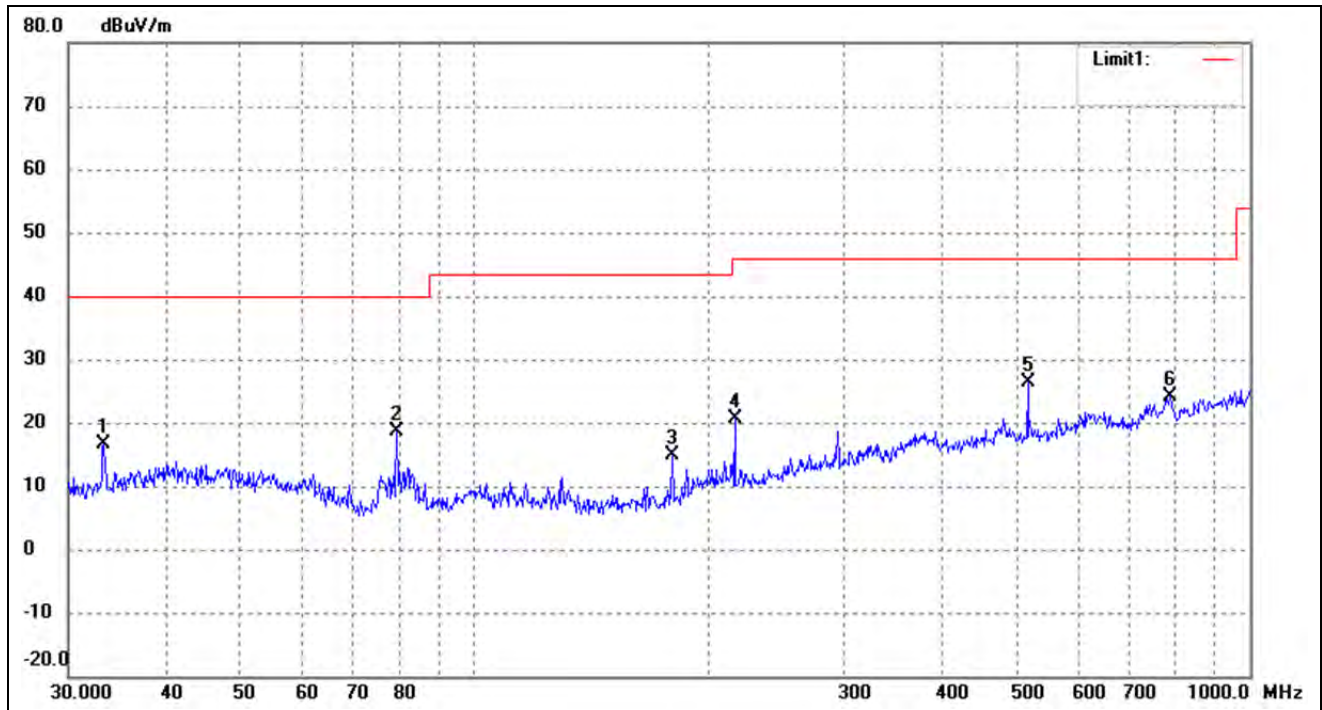
Comment: DC 7.6V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.2765	23.20	-7.75	15.45	40.00	-24.55	212	100	peak
2	56.1974	22.86	-9.10	13.76	40.00	-26.24	97	100	peak
3	98.1419	24.14	-11.28	12.86	43.50	-30.64	209	100	peak
4	215.2678	24.74	-8.79	15.95	43.50	-27.55	115	100	peak
5	314.3765	29.04	-4.92	24.12	46.00	-21.88	299	100	peak
6	584.7895	24.60	-0.77	23.83	46.00	-22.17	339	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	26.18	-9.46	16.72	40.00	-23.28	274	100	peak
2	79.5209	30.62	-12.03	18.59	40.00	-21.41	94	100	peak
3	180.0165	26.14	-11.36	14.78	43.50	-28.72	197	100	peak
4	216.7828	29.40	-8.81	20.59	46.00	-25.41	105	100	peak
5	517.2480	28.21	-1.94	26.27	46.00	-19.73	153	100	peak
6	790.6188	21.88	2.37	24.25	46.00	-21.75	118	100	peak

WiFi Antenna A
Spurious Emissions Above 1GHz
Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	56.15	-3.87	52.28	74	-21.72	H	PK
4824.00	45.28	-3.87	41.41	54	-12.59	H	AV
7236.00	59.58	1.14	60.72	74	-13.28	H	PK
7236.00	45.58	1.19	46.77	54	-7.23	H	AV
4824.00	57.43	-3.86	53.57	74	-20.43	V	PK
4824.00	42.16	-3.86	38.3	54	-15.7	V	AV
7236.00	56.29	1.1	57.39	74	-16.61	V	PK
7236.00	43.58	1.1	44.68	54	-9.32	V	AV
Middle Channel-2437MHz							
4874.00	59.23	-3.74	55.49	74	-18.51	H	PK
4874.00	44.17	-3.74	40.43	54	-13.57	H	AV
7311.00	56.42	1.47	57.89	74	-16.11	H	PK
7311.00	46.58	1.47	48.05	54	-5.95	H	AV
4874.00	57.47	-3.74	53.73	74	-20.27	V	PK
4874.00	46.27	-3.74	42.53	54	-11.47	V	AV
7311.00	55.05	1.47	56.52	74	-17.48	V	PK
7311.00	42.06	1.47	43.53	54	-10.47	V	AV
High Channel-2462MHz							
4924.00	58.49	-3.59	54.9	74	-19.1	H	PK
4924.00	43.5	-3.59	39.91	54	-14.09	H	AV
7386.00	56.26	1.79	58.05	74	-15.95	H	PK
7386.00	43.18	1.79	44.97	54	-9.03	H	AV
4924.00	57.58	-3.59	53.99	74	-20.01	V	PK
4924.00	46.19	-3.59	42.6	54	-11.4	V	AV
7386.00	59.65	1.79	61.44	74	-12.56	V	PK
7386.00	46.35	1.79	48.14	54	-5.86	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	59.83	-3.87	55.96	74	-18.04	H	PK
4824.00	43.21	-3.87	39.34	54	-14.66	H	AV
7236.00	53.17	1.14	54.31	74	-19.69	H	PK
7236.00	38.48	1.19	39.67	54	-14.33	H	AV
4824.00	59.66	-3.86	55.8	74	-18.2	V	PK
4824.00	41.26	-3.86	37.4	54	-16.6	V	AV
7236.00	54.18	1.1	55.28	74	-18.72	V	PK
7236.00	39.7	1.1	40.8	54	-13.2	V	AV
Middle Channel-2437MHz							
4874.00	59.04	-3.74	55.3	74	-18.7	H	PK
4874.00	42.81	-3.74	39.07	54	-14.93	H	AV
7311.00	52.13	1.47	53.6	74	-20.4	H	PK
7311.00	40.9	1.47	42.37	54	-11.63	H	AV
4874.00	58.01	-3.74	54.27	74	-19.73	V	PK
4874.00	41.3	-3.74	37.56	54	-16.44	V	AV
7311.00	52.14	1.47	53.61	74	-20.39	V	PK
7311.00	38.66	1.47	40.13	54	-13.87	V	AV
High Channel-2462MHz							
4924.00	60.12	-3.59	56.53	74	-17.47	H	PK
4924.00	43.35	-3.59	39.76	54	-14.24	H	AV
7386.00	53.11	1.79	54.9	74	-19.1	H	PK
7386.00	40.25	1.79	42.04	54	-11.96	H	AV
4924.00	60.8	-3.59	57.21	74	-16.79	V	PK
4924.00	41.17	-3.59	37.58	54	-16.42	V	AV
7386.00	55.14	1.79	56.93	74	-17.07	V	PK
7386.00	40.88	1.79	42.67	54	-11.33	V	AV

Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	61.78	-3.87	57.91	74	-16.09	H	PK
4824.00	42.55	-3.87	38.68	54	-15.32	H	AV
7236.00	52.03	1.14	53.17	74	-20.83	H	PK
7236.00	39.77	1.19	40.96	54	-13.04	H	AV
4824.00	60.3	-3.86	56.44	74	-17.56	V	PK
4824.00	43.73	-3.86	39.87	54	-14.13	V	AV
7236.00	53.83	1.1	54.93	74	-19.07	V	PK
7236.00	40.46	1.1	41.56	54	-12.44	V	AV
Middle Channel-2437MHz							
4874.00	59.07	-3.74	55.33	74	-18.67	H	PK
4874.00	41.74	-3.74	38	54	-16	H	AV
7311.00	54.86	1.47	56.33	74	-17.67	H	PK
7311.00	40.64	1.47	42.11	54	-11.89	H	AV
4874.00	61.82	-3.74	58.08	74	-15.92	V	PK
4874.00	43.35	-3.74	39.61	54	-14.39	V	AV
7311.00	53.53	1.47	55	74	-19	V	PK
7311.00	40.03	1.47	41.5	54	-12.5	V	AV
High Channel-2462MHz							
4924.00	60.27	-3.59	56.68	74	-17.32	H	PK
4924.00	43.14	-3.59	39.55	54	-14.45	H	AV
7386.00	54.28	1.79	56.07	74	-17.93	H	PK
7386.00	39.17	1.79	40.96	54	-13.04	H	AV
4924.00	61.55	-3.59	57.96	74	-16.04	V	PK
4924.00	42.99	-3.59	39.4	54	-14.6	V	AV
7386.00	52.74	1.79	54.53	74	-19.47	V	PK
7386.00	39.41	1.79	41.2	54	-12.8	V	AV

Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2422MHz							
4844.00	57.04	-3.9	53.14	74	-20.86	H	PK
4844.00	41.91	-3.9	38.01	54	-15.99	H	AV
7266.00	53.11	1.06	54.17	74	-19.83	H	PK
7266.00	39.08	1.06	40.14	54	-13.86	H	AV
4844.00	59.97	-3.9	56.07	74	-17.93	V	PK
4844.00	42.47	-3.9	38.57	54	-15.43	V	AV
7266.00	54.17	1.06	55.23	74	-18.77	V	PK
7266.00	38.49	1.06	39.55	54	-14.45	V	AV
Middle Channel-2437MHz							
4874.00	59.26	-3.74	55.52	74	-18.48	H	PK
4874.00	40.1	-3.74	36.36	54	-17.64	H	AV
7311.00	53.05	1.47	54.52	74	-19.48	H	PK
7311.00	40.64	1.47	42.11	54	-11.89	H	AV
4874.00	57.69	-3.74	53.95	74	-20.05	V	PK
4874.00	41.96	-3.74	38.22	54	-15.78	V	AV
7311.00	52.86	1.47	54.33	74	-19.67	V	PK
7311.00	39.86	1.47	41.33	54	-12.67	V	AV
High Channel-2452MHz							
4904.00	60.44	-3.63	56.81	74	-17.19	H	PK
4904.00	41.27	-3.63	37.64	54	-16.36	H	AV
7356.00	51.98	1.62	53.6	74	-20.4	H	PK
7356.00	40.67	1.62	42.29	54	-11.71	H	AV
4904.00	57.2	-3.63	53.57	74	-20.43	V	PK
4904.00	42.58	-3.63	38.95	54	-15.05	V	AV
7356.00	51.68	1.62	53.3	74	-20.7	V	PK
7356.00	39.18	1.62	40.8	54	-13.2	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

WiFi Antenna B
Spurious Emissions Above 1GHz
Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	57.12	-3.87	53.25	74	-20.75	H	PK
4824.00	49.58	-3.87	45.71	54	-8.29	H	AV
7236.00	56.84	1.14	57.98	74	-16.02	H	PK
7236.00	43.28	1.19	44.47	54	-9.53	H	AV
4824.00	59.14	-3.86	55.28	74	-18.72	V	PK
4824.00	45.18	-3.86	41.32	54	-12.68	V	AV
7236.00	54.84	1.1	55.94	74	-18.06	V	PK
7236.00	46.89	1.1	47.99	54	-6.01	V	AV
Middle Channel-2437MHz							
4874.00	58.685	-3.74	54.945	74	-19.055	H	PK
4874.00	46.25	-3.74	42.51	54	-11.49	H	AV
7311.00	54.29	1.47	55.76	74	-18.24	H	PK
7311.00	42.18	1.47	43.65	54	-10.35	H	AV
4874.00	59.25	-3.74	55.51	74	-18.49	V	PK
4874.00	45.25	-3.74	41.51	54	-12.49	V	AV
7311.00	54.14	1.47	55.61	74	-18.39	V	PK
7311.00	43.25	1.47	44.72	54	-9.28	V	AV
High Channel-2462MHz							
4924.00	61.42	-3.59	57.83	74	-16.17	H	PK
4924.00	48.52	-3.59	44.93	54	-9.07	H	AV
7386.00	57.44	1.79	59.23	74	-14.77	H	PK
7386.00	42.58	1.79	44.37	54	-9.63	H	AV
4924.00	58.52	-3.59	54.93	74	-19.07	V	PK
4924.00	43.25	-3.59	39.66	54	-14.34	V	AV
7386.00	57.48	1.79	59.27	74	-14.73	V	PK
7386.00	45.58	1.79	47.37	54	-6.63	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	58.58	-3.87	54.71	74	-19.29	H	PK
4824.00	42.02	-3.87	38.15	54	-15.85	H	AV
7236.00	54.16	1.14	55.3	74	-18.7	H	PK
7236.00	40.23	1.19	41.42	54	-12.58	H	AV
4824.00	60.41	-3.86	56.55	74	-17.45	V	PK
4824.00	42.84	-3.86	38.98	54	-15.02	V	AV
7236.00	55.72	1.1	56.82	74	-17.18	V	PK
7236.00	38.56	1.1	39.66	54	-14.34	V	AV
Middle Channel-2437MHz							
4874.00	59.38	-3.74	55.64	74	-18.36	H	PK
4874.00	43.06	-3.74	39.32	54	-14.68	H	AV
7311.00	53.5	1.47	54.97	74	-19.03	H	PK
7311.00	38.54	1.47	40.01	54	-13.99	H	AV
4874.00	59.5	-3.74	55.76	74	-18.24	V	PK
4874.00	43.29	-3.74	39.55	54	-14.45	V	AV
7311.00	55.71	1.47	57.18	74	-16.82	V	PK
7311.00	39.03	1.47	40.5	54	-13.5	V	AV
High Channel-2462MHz							
4924.00	60.78	-3.59	57.19	74	-16.81	H	PK
4924.00	41.68	-3.59	38.09	54	-15.91	H	AV
7386.00	55.66	1.79	57.45	74	-16.55	H	PK
7386.00	38.4	1.79	40.19	54	-13.81	H	AV
4924.00	61.12	-3.59	57.53	74	-16.47	V	PK
4924.00	41.27	-3.59	37.68	54	-16.32	V	AV
7386.00	54.42	1.79	56.21	74	-17.79	V	PK
7386.00	39.6	1.79	41.39	54	-12.61	V	AV

Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	60.33	-3.87	56.46	74	-17.54	H	PK
4824.00	43.7	-3.87	39.83	54	-14.17	H	AV
7236.00	53.87	1.14	55.01	74	-18.99	H	PK
7236.00	40.19	1.19	41.38	54	-12.62	H	AV
4824.00	58.02	-3.86	54.16	74	-19.84	V	PK
4824.00	43.11	-3.86	39.25	54	-14.75	V	AV
7236.00	54.74	1.1	55.84	74	-18.16	V	PK
7236.00	40.51	1.1	41.61	54	-12.39	V	AV
Middle Channel-2437MHz							
4874.00	60.64	-3.74	56.9	74	-17.1	H	PK
4874.00	42.14	-3.74	38.4	54	-15.6	H	AV
7311.00	53.92	1.47	55.39	74	-18.61	H	PK
7311.00	38.56	1.47	40.03	54	-13.97	H	AV
4874.00	59.86	-3.74	56.12	74	-17.88	V	PK
4874.00	41.07	-3.74	37.33	54	-16.67	V	AV
7311.00	55.9	1.47	57.37	74	-16.63	V	PK
7311.00	38.69	1.47	40.16	54	-13.84	V	AV
High Channel-2462MHz							
4924.00	60.55	-3.59	56.96	74	-17.04	H	PK
4924.00	42.98	-3.59	39.39	54	-14.61	H	AV
7386.00	55.71	1.79	57.5	74	-16.5	H	PK
7386.00	38.07	1.79	39.86	54	-14.14	H	AV
4924.00	58.41	-3.59	54.82	74	-19.18	V	PK
4924.00	42.56	-3.59	38.97	54	-15.03	V	AV
7386.00	52.84	1.79	54.63	74	-19.37	V	PK
7386.00	38.02	1.79	39.81	54	-14.19	V	AV

Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2422MHz							
4844.00	58.59	-3.9	54.69	74	-19.31	H	PK
4844.00	41.99	-3.9	38.09	54	-15.91	H	AV
7266.00	54.5	1.06	55.56	74	-18.44	H	PK
7266.00	39.07	1.06	40.13	54	-13.87	H	AV
4844.00	60.48	-3.9	56.58	74	-17.42	V	PK
4844.00	42.36	-3.9	38.46	54	-15.54	V	AV
7266.00	51.09	1.06	52.15	74	-21.85	V	PK
7266.00	38.76	1.06	39.82	54	-14.18	V	AV
Middle Channel-2437MHz							
4874.00	60.09	-3.74	56.35	74	-17.65	H	PK
4874.00	41.69	-3.74	37.95	54	-16.05	H	AV
7311.00	51.96	1.47	53.43	74	-20.57	H	PK
7311.00	40.47	1.47	41.94	54	-12.06	H	AV
4874.00	58.8	-3.74	55.06	74	-18.94	V	PK
4874.00	40.11	-3.74	36.37	54	-17.63	V	AV
7311.00	53.27	1.47	54.74	74	-19.26	V	PK
7311.00	40.78	1.47	42.25	54	-11.75	V	AV
High Channel-2452MHz							
4904.00	57.03	-3.63	53.4	74	-20.6	H	PK
4904.00	42.24	-3.63	38.61	54	-15.39	H	AV
7356.00	54.01	1.62	55.63	74	-18.37	H	PK
7356.00	38.33	1.62	39.95	54	-14.05	H	AV
4904.00	58.48	-3.63	54.85	74	-19.15	V	PK
4904.00	41.67	-3.63	38.04	54	-15.96	V	AV
7356.00	53.11	1.62	54.73	74	-19.27	V	PK
7356.00	39.89	1.62	41.51	54	-12.49	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Procedure

According to the KDB 558074D01 v04, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 v04, the conducted spurious emissions test method as follows:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100 kHz.
4. Set VBW $\geq$ 300 kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

9.3 Environmental Conditions

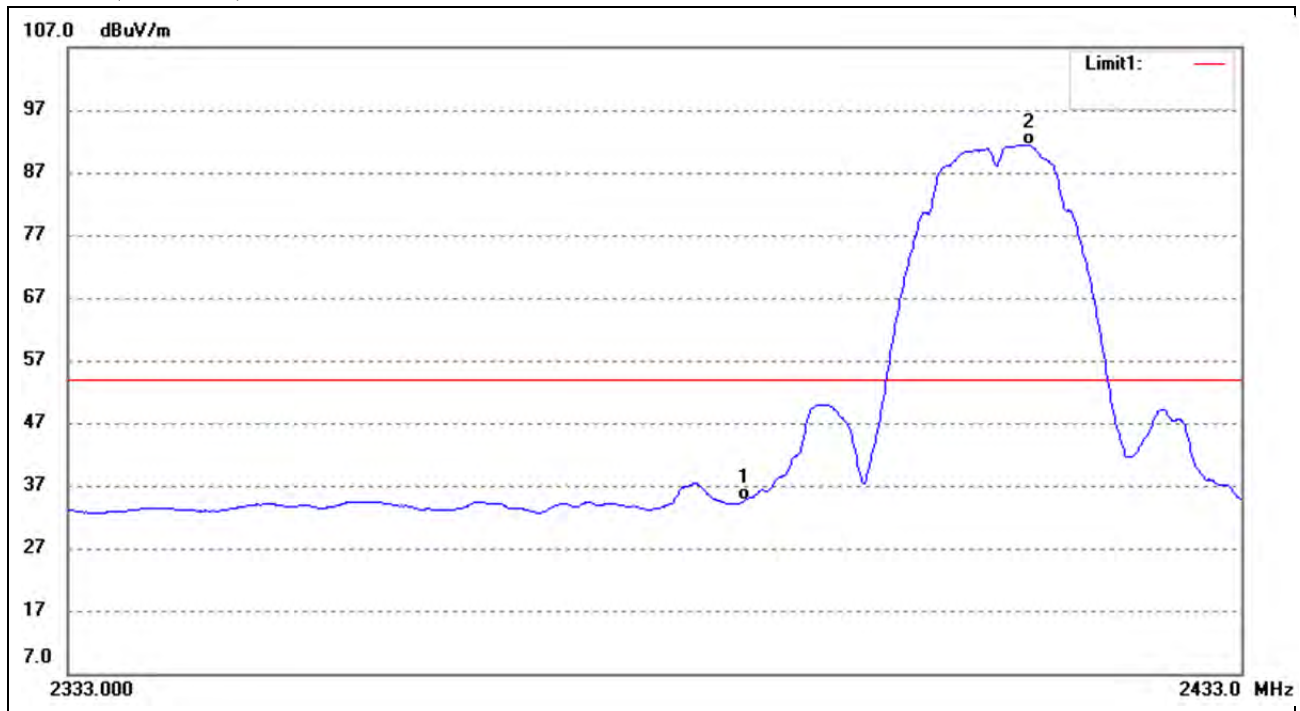
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

WiFi Antenna A

802.11b-Lowest Bandedge

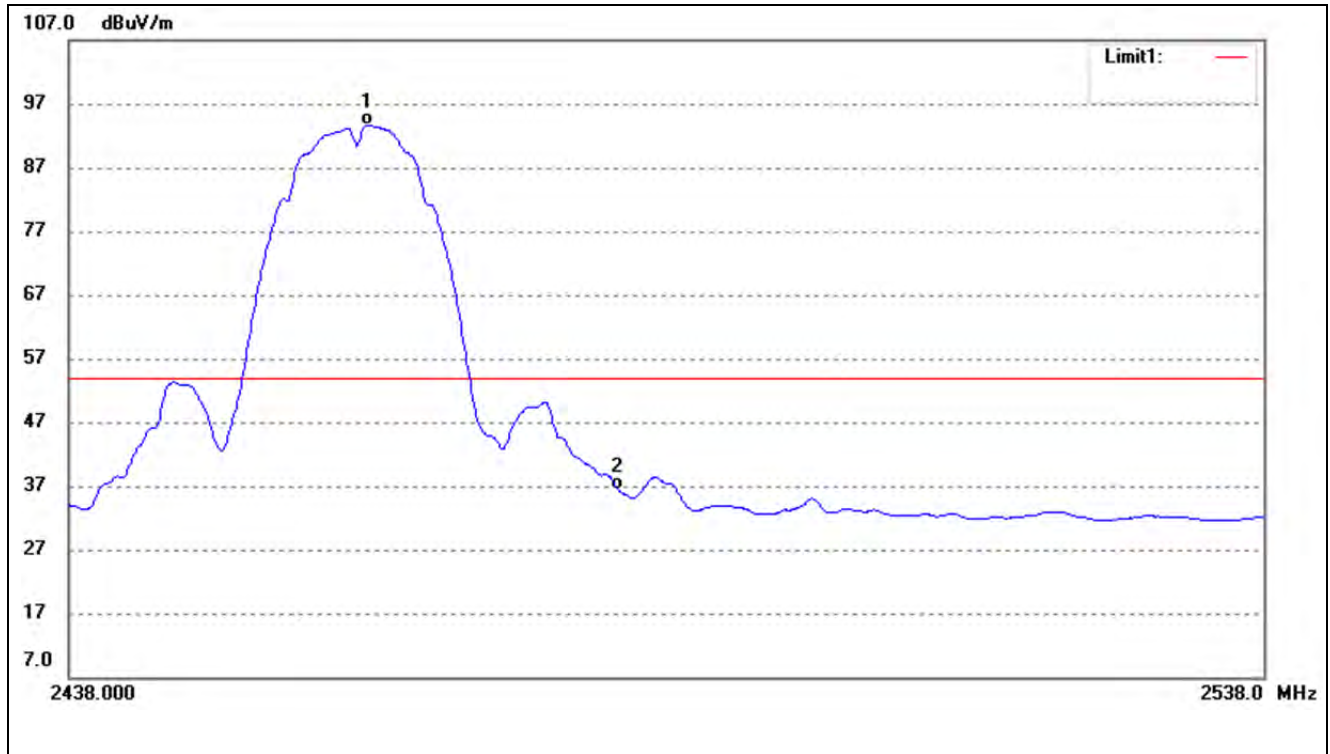
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	41.81	-7.26	34.55	54.00	-19.45	Average Detector
	2390.00	52.13	-7.26	44.87	74.00	-29.13	Peak Detector
2	2414.59	98.89	-7.40	91.49	/	/	Average Detector
	2413.27	104.10	-7.40	96.70	/	/	Peak Detector

802.11b-Highest Bandedge

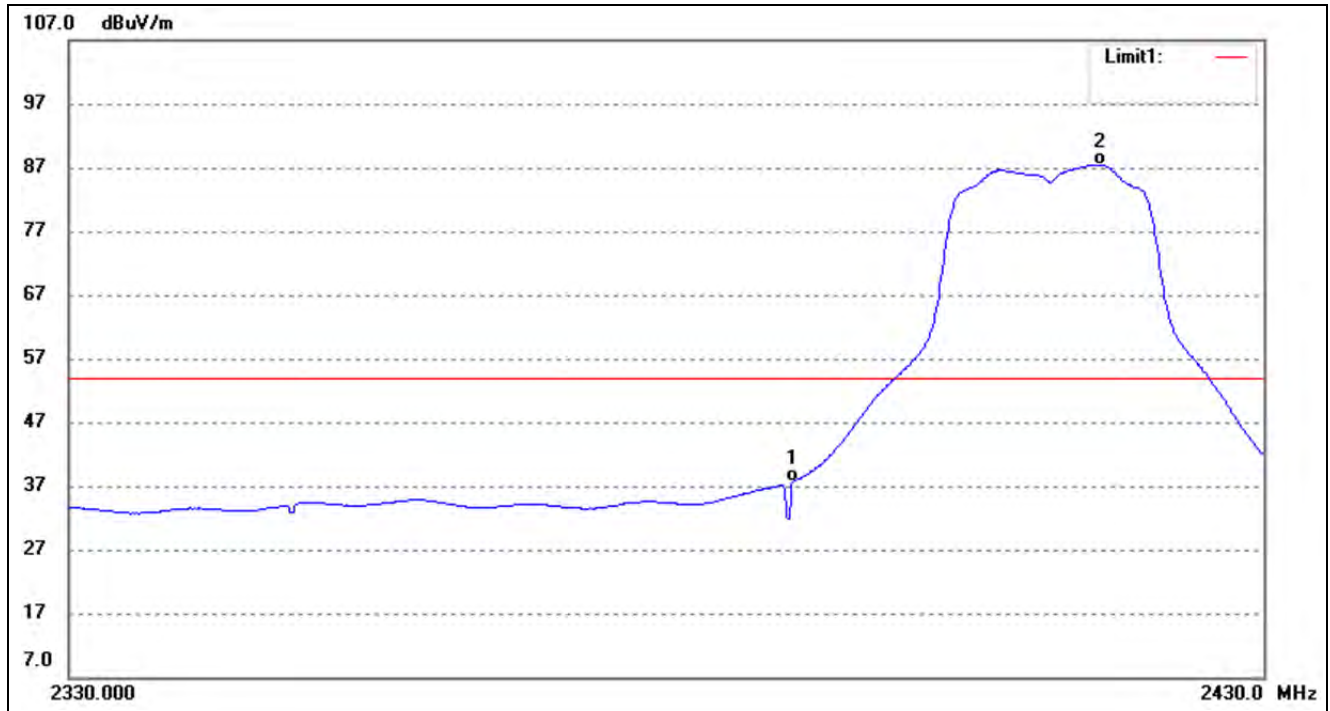
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.62	100.96	-7.31	93.65	/	/	Average Detector
	2463.12	105.18	-7.31	97.87	/	/	Peak Detector
2	2483.50	43.62	-7.28	36.34	54.00	-17.66	Average Detector
	2483.50	52.42	-7.28	45.14	74.00	-28.86	Peak Detector

802.11g-Lowest Bandedge

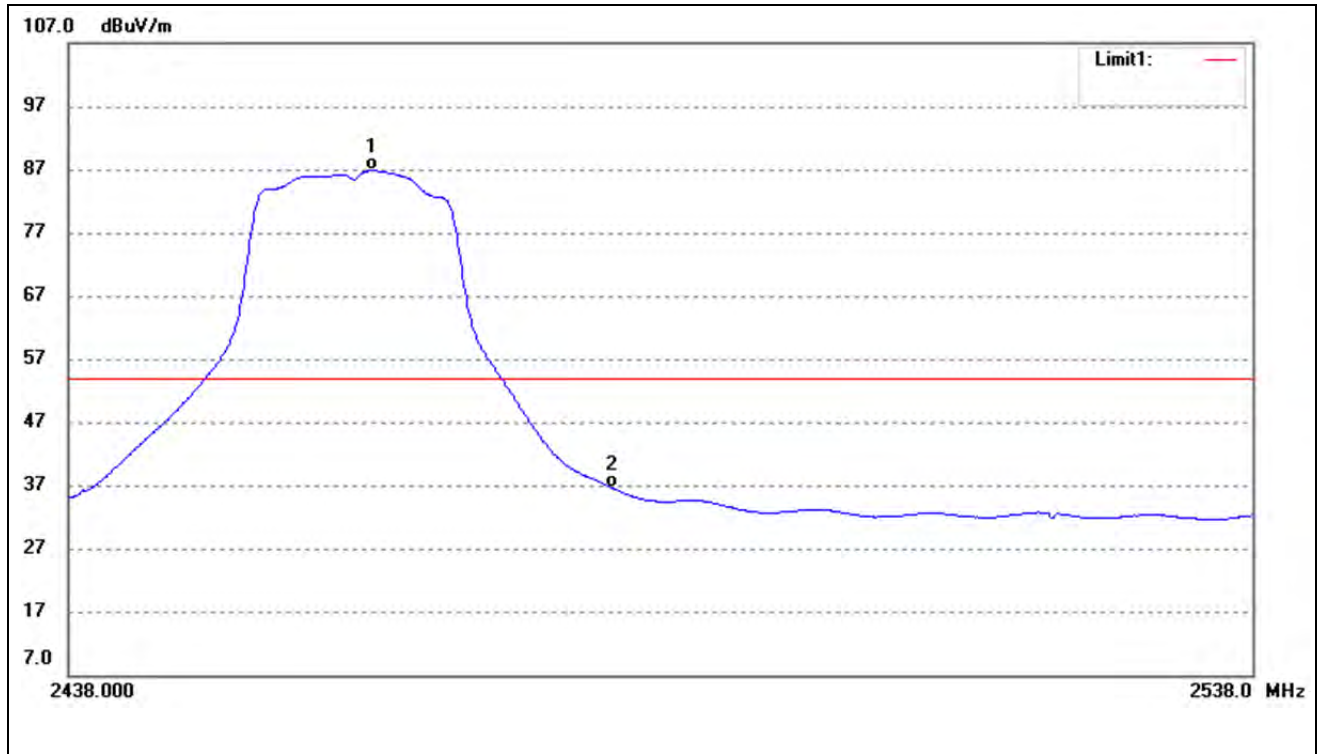
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	45.00	-7.26	37.74	54.00	-16.26	Average Detector
	2390.00	55.88	-7.26	48.62	74.00	-25.38	Peak Detector
2	2416.05	94.83	-7.39	87.44	/	/	Average Detector
	2416.46	104.26	-7.39	96.87	/	/	Peak Detector

802.11g-Highest Bandedge

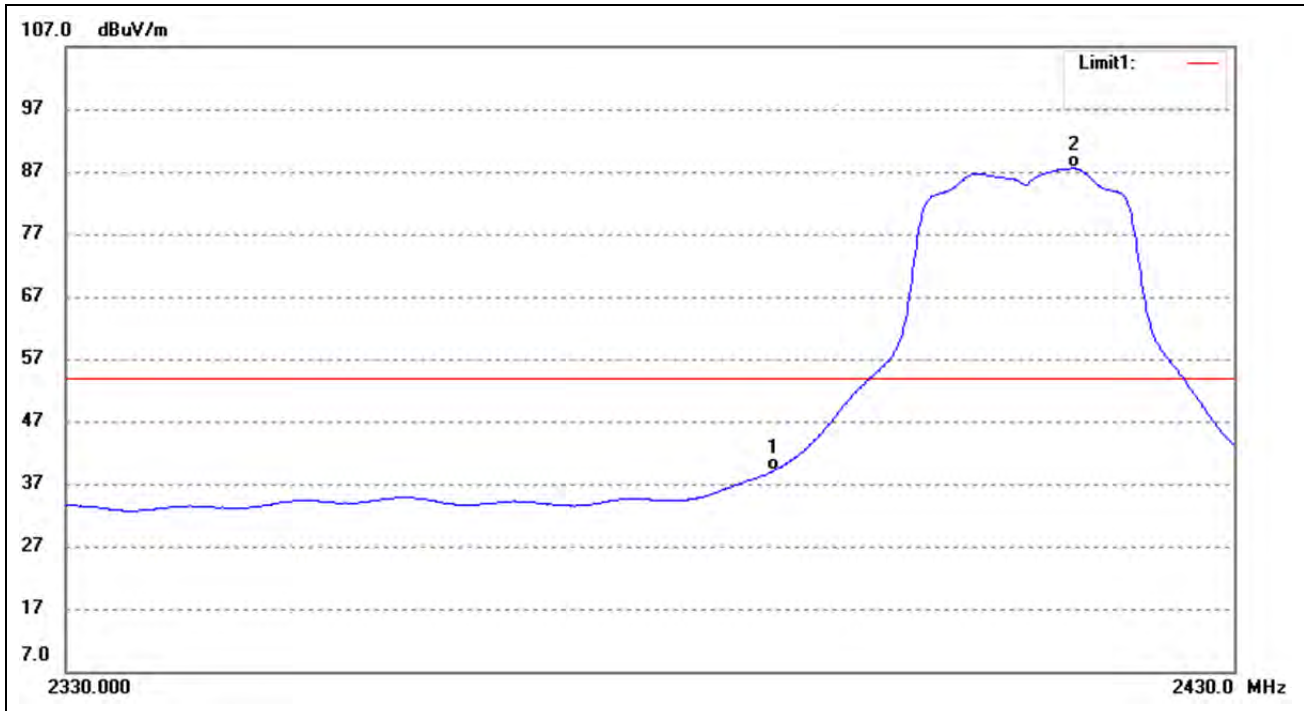
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.22	94.15	-7.31	86.84	/	/	Average Detector
	2463.12	103.98	-7.31	96.67	/	/	Peak Detector
2	2483.50	43.82	-7.28	36.54	54.00	-17.46	Average Detector
	2483.50	54.70	-7.28	47.42	74.00	-26.58	Peak Detector

802.11n-HT20-Lowest Bandedge

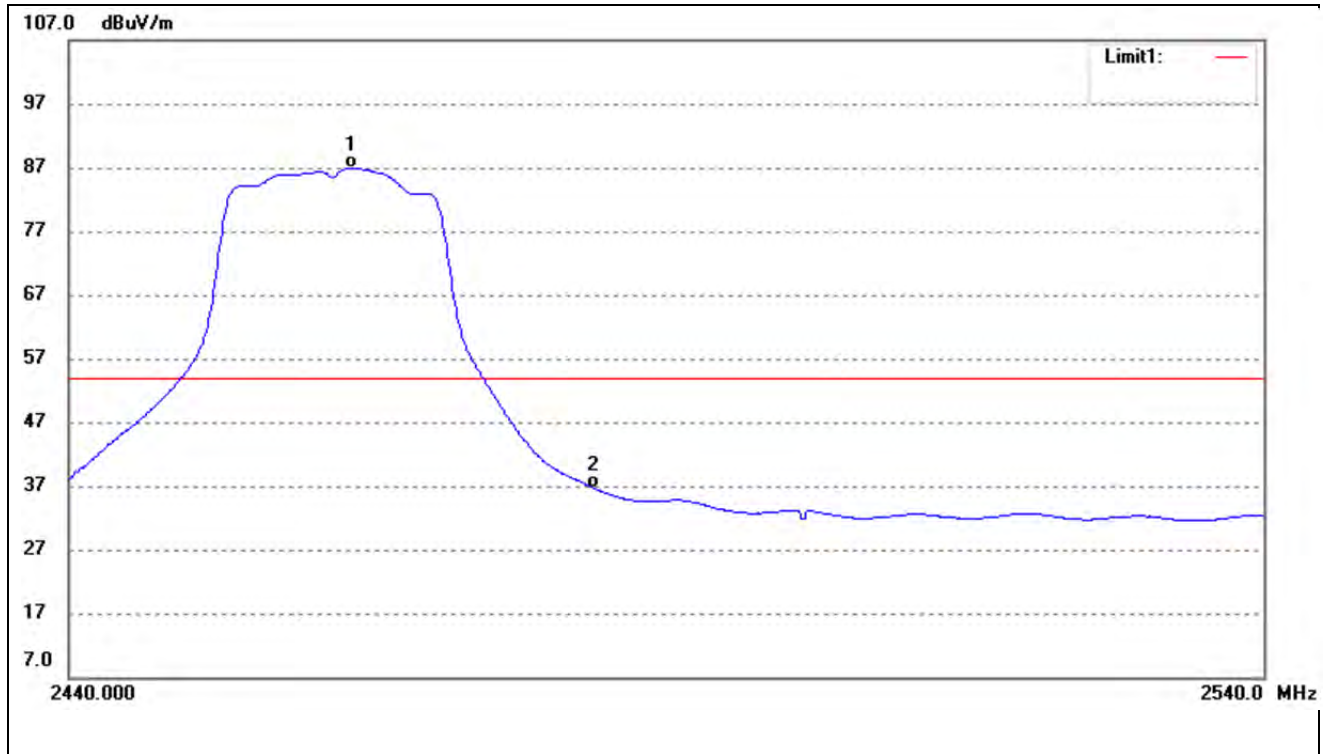
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	46.36	-7.26	39.10	54.00	-14.90	Average Detector
	2390.00	59.55	-7.26	52.29	74.00	-21.71	Peak Detector
2	2416.05	94.93	-7.39	87.54	/	/	Average Detector
	2416.15	104.48	-7.39	97.09	/	/	Peak Detector

802.11n-HT20-Highest Bandedge

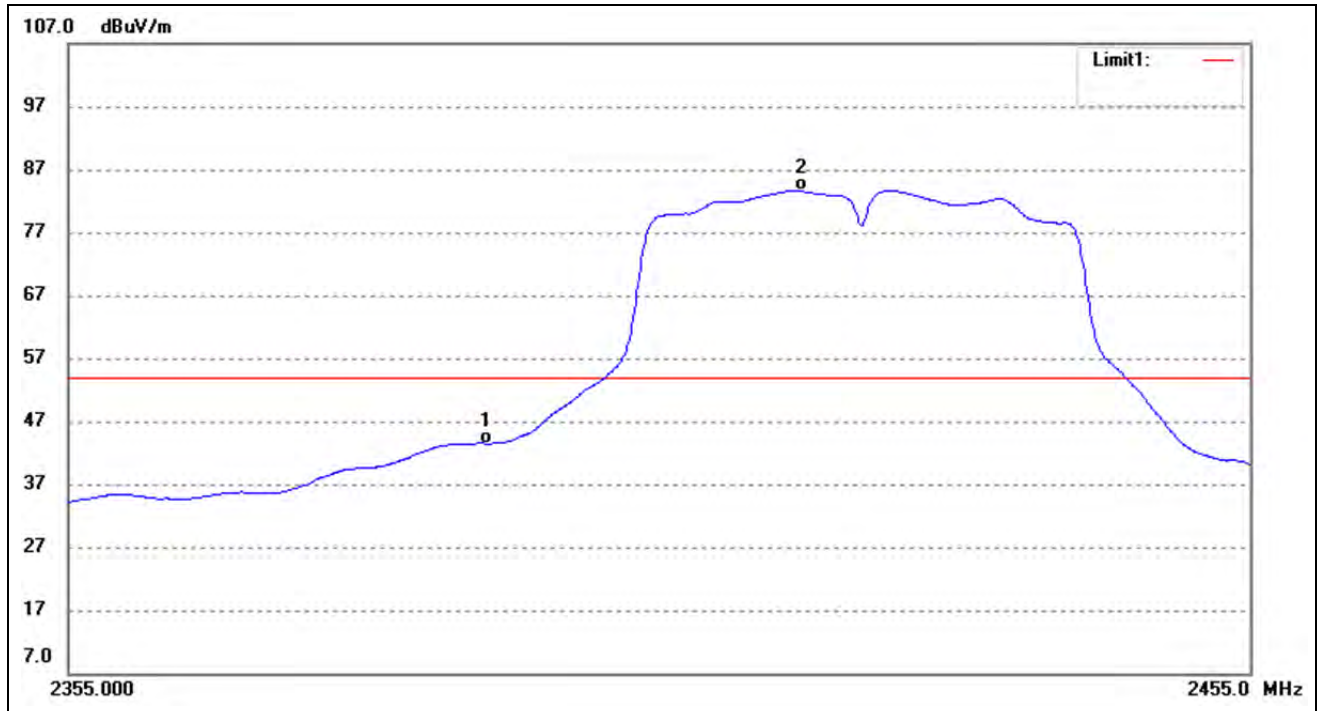
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.24	94.27	-7.31	86.96	/	/	Average Detector
	2464.43	103.44	-7.31	96.13	/	/	Peak Detector
2	2483.50	43.90	-7.28	36.62	54.00	-17.38	Average Detector
	2483.50	56.08	-7.28	48.80	74.00	-25.20	Peak Detector

802.11n-HT40-Lowest Bandedge

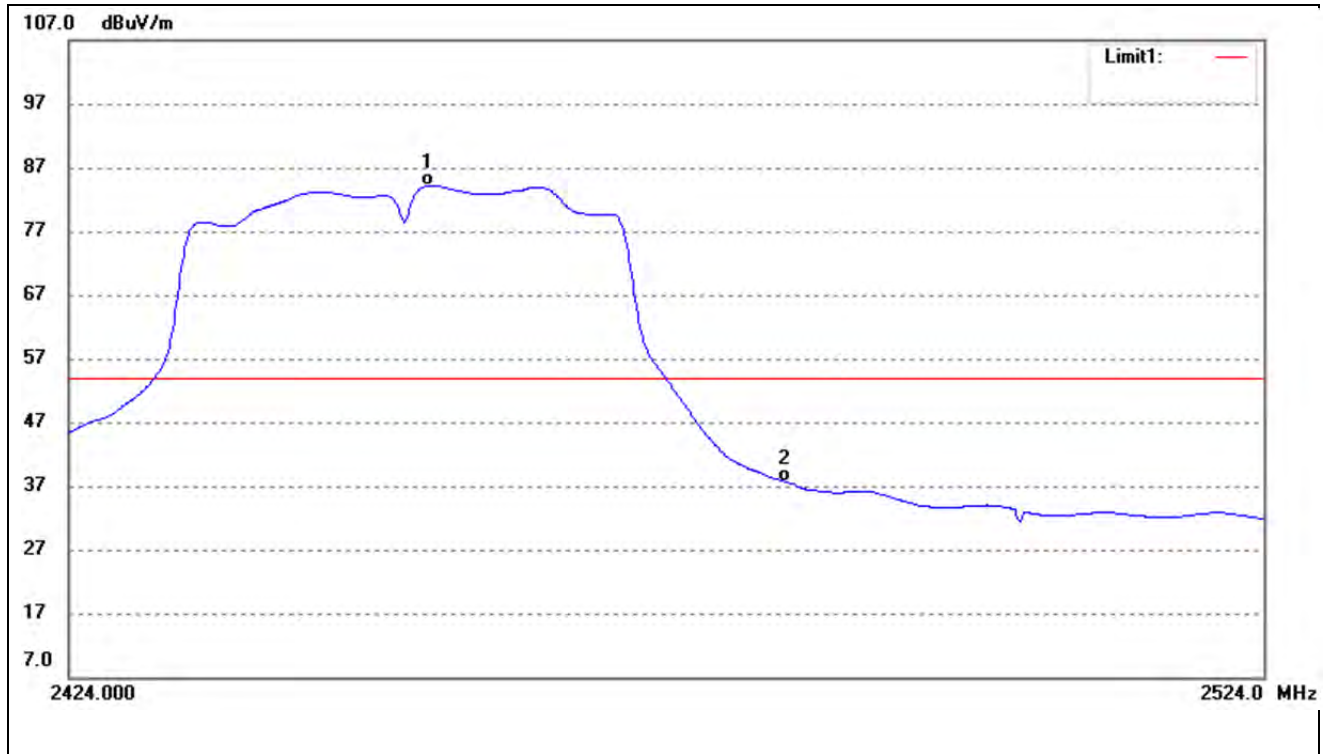
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	50.71	-7.26	43.45	54.00	-10.55	Average Detector
	2390.00	62.72	-7.26	55.46	74.00	-18.54	Peak Detector
2	2416.51	91.01	-7.39	83.62	/	/	Average Detector
	2424.66	100.66	-7.38	93.28	/	/	Peak Detector

802.11n-HT40-Highest Bandedge

Vertical (Worst case)

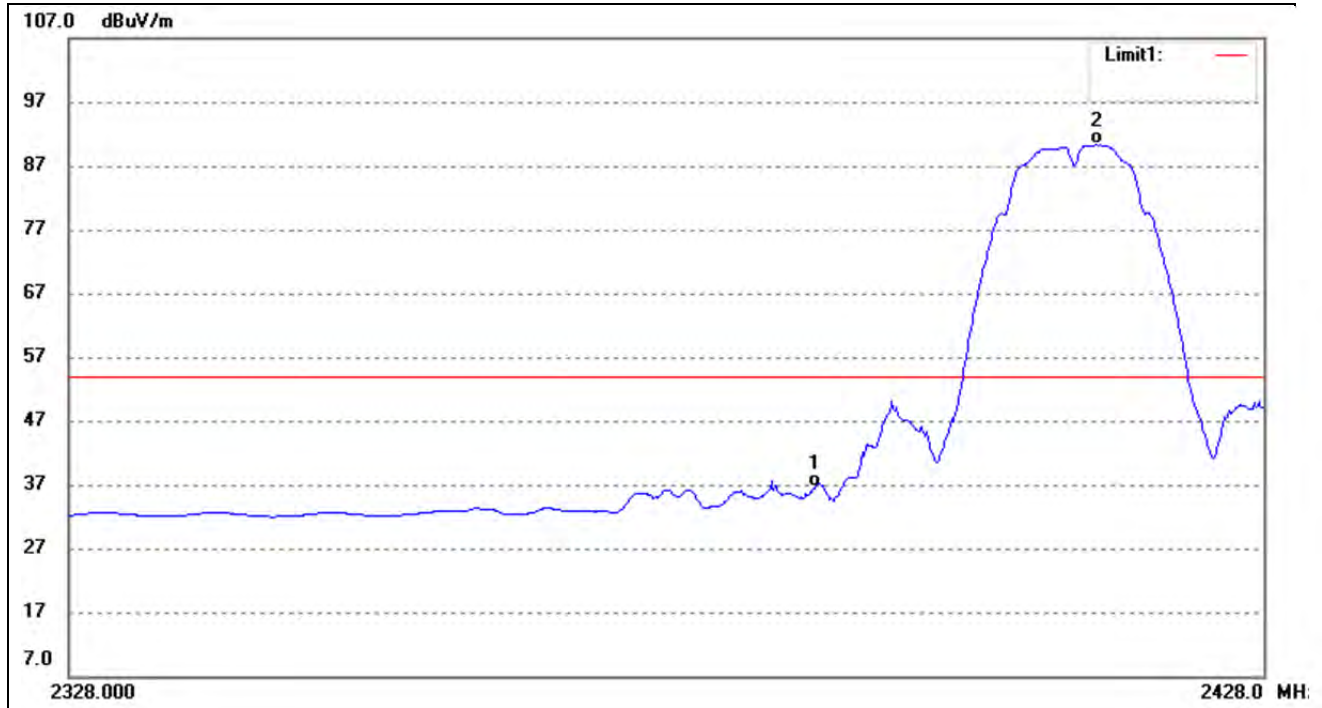


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2453.68	91.47	-7.33	84.14	/	/	Average Detector
	2454.77	100.65	-7.33	93.32	/	/	Peak Detector
2	2483.50	44.95	-7.28	37.67	54.00	-16.33	Average Detector
	2483.50	57.67	-7.28	50.39	74.00	-23.61	Peak Detector

WiFi Antenna B

802.11b-Lowest Bandedge

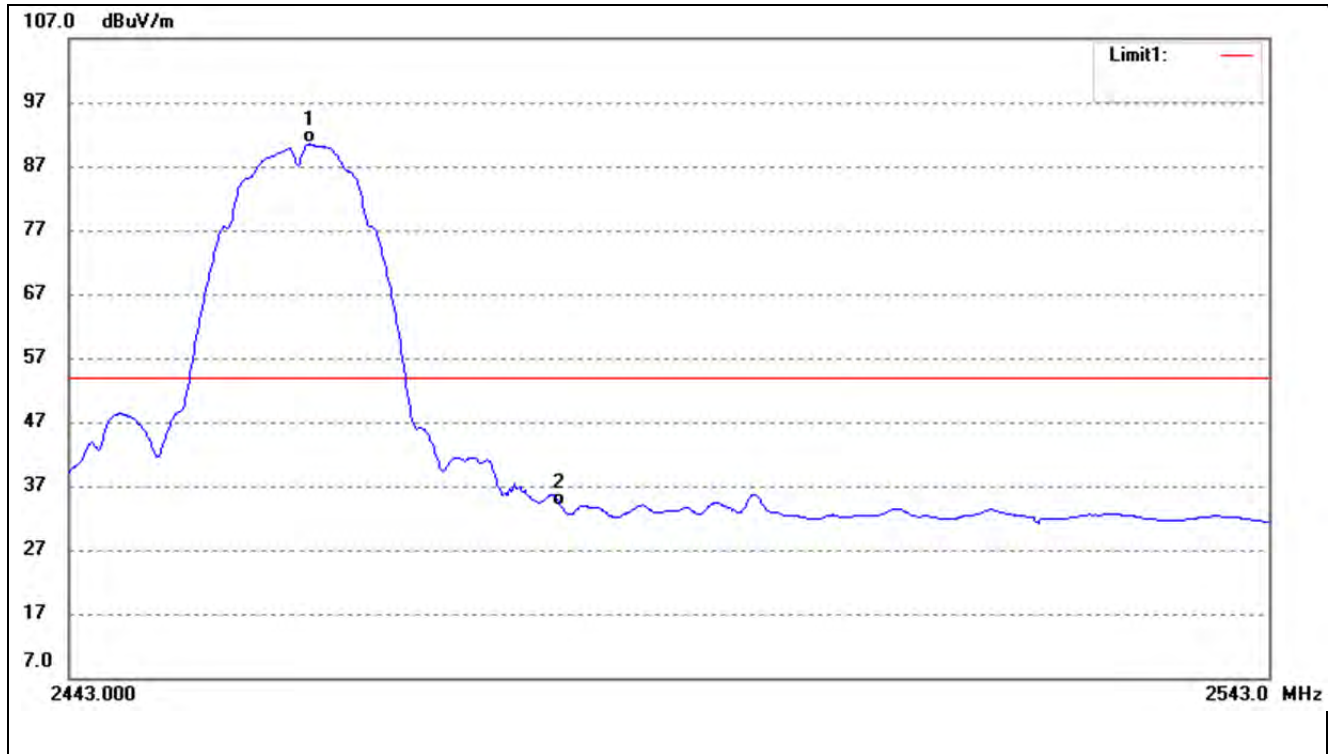
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	43.96	-7.26	36.70	54.00	-17.30	Average Detector
	2390.00	54.46	-7.26	47.20	74.00	-26.80	Peak Detector
2	2413.75	97.71	-7.40	90.31	/	/	Average Detector
	2413.34	102.78	-7.40	95.38	/	/	Peak Detector

802.11b-Highest Bandedge

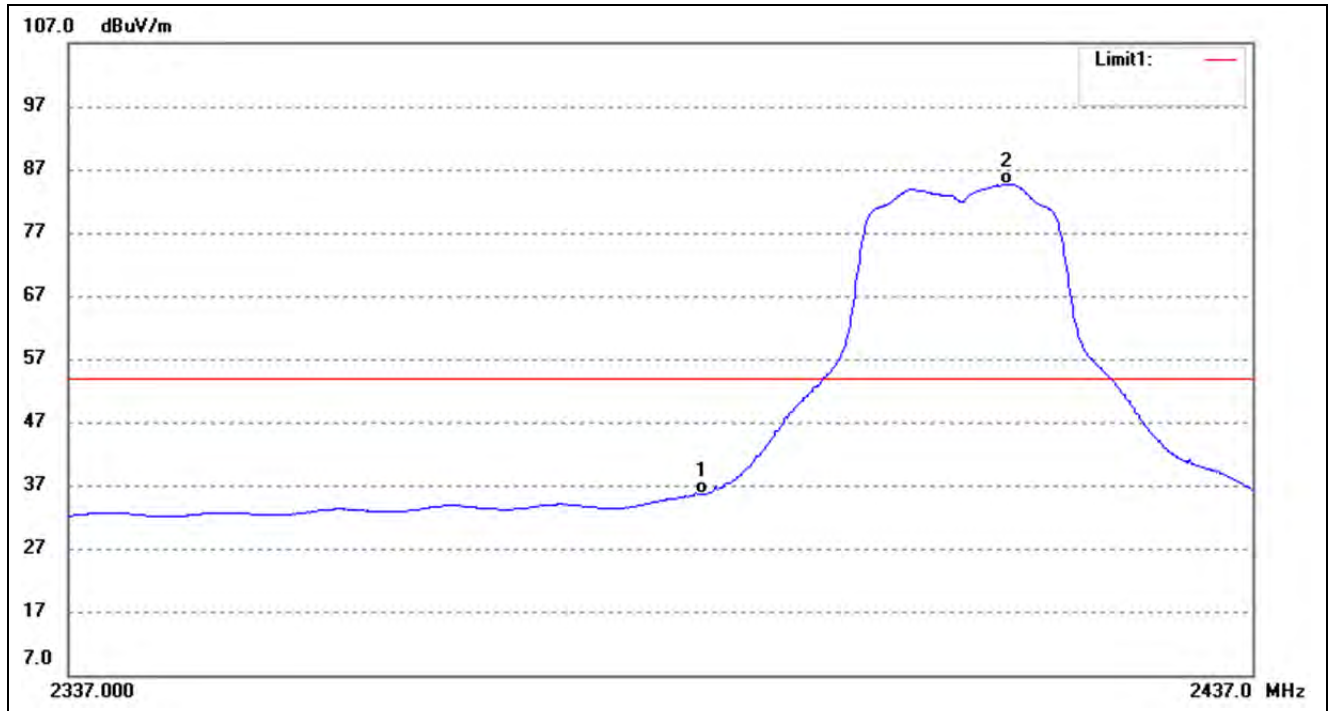
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.68	97.82	-7.31	90.51	/	/	Average Detector
	2463.27	102.28	-7.31	94.97	/	/	Peak Detector
2	2483.50	41.18	-7.28	33.90	54.00	-20.10	Average Detector
	2483.50	51.01	-7.28	43.73	74.00	-30.27	Peak Detector

802.11g-Lowest Bandedge

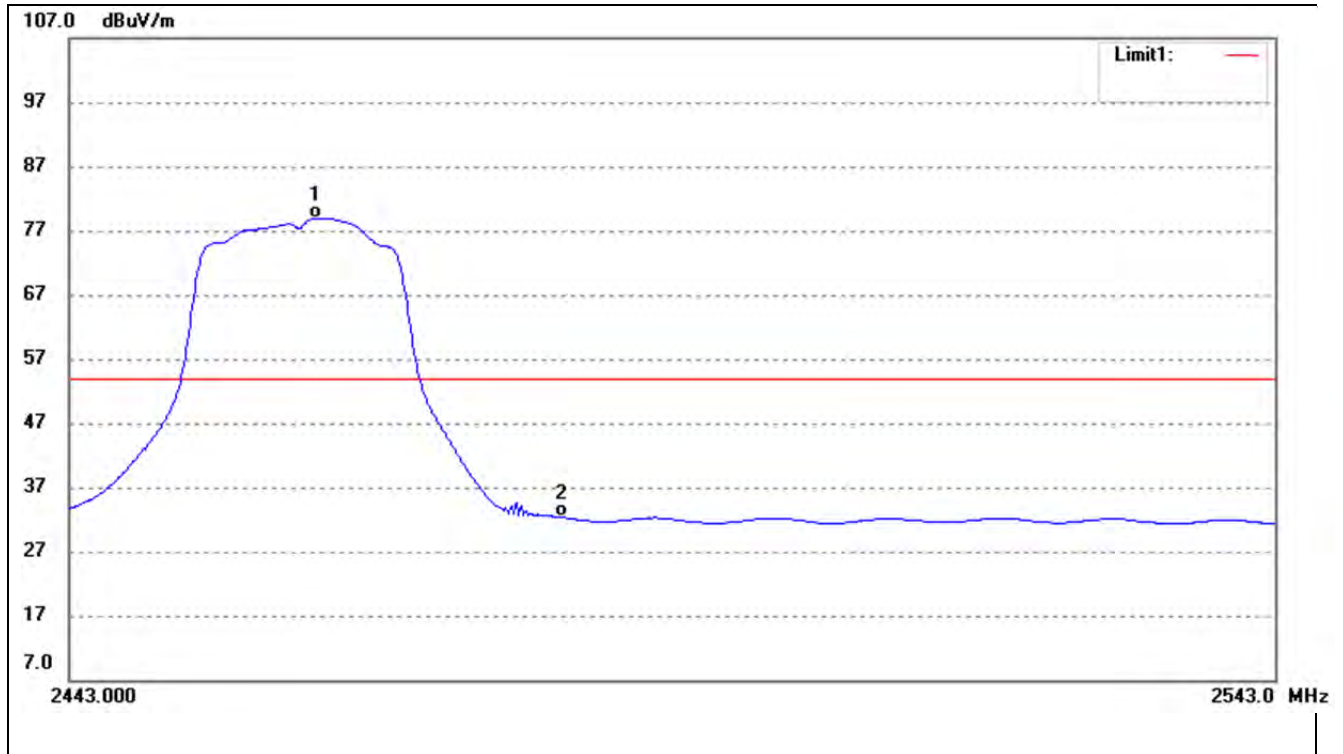
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	42.84	-7.26	35.58	54.00	-18.42	Average Detector
	2390.00	54.66	-7.26	47.40	74.00	-26.60	Peak Detector
2	2416.00	92.05	-7.39	84.66	/	/	Average Detector
	2415.15	101.13	-7.40	93.73	/	/	Peak Detector

802.11g-Highest Bandedge

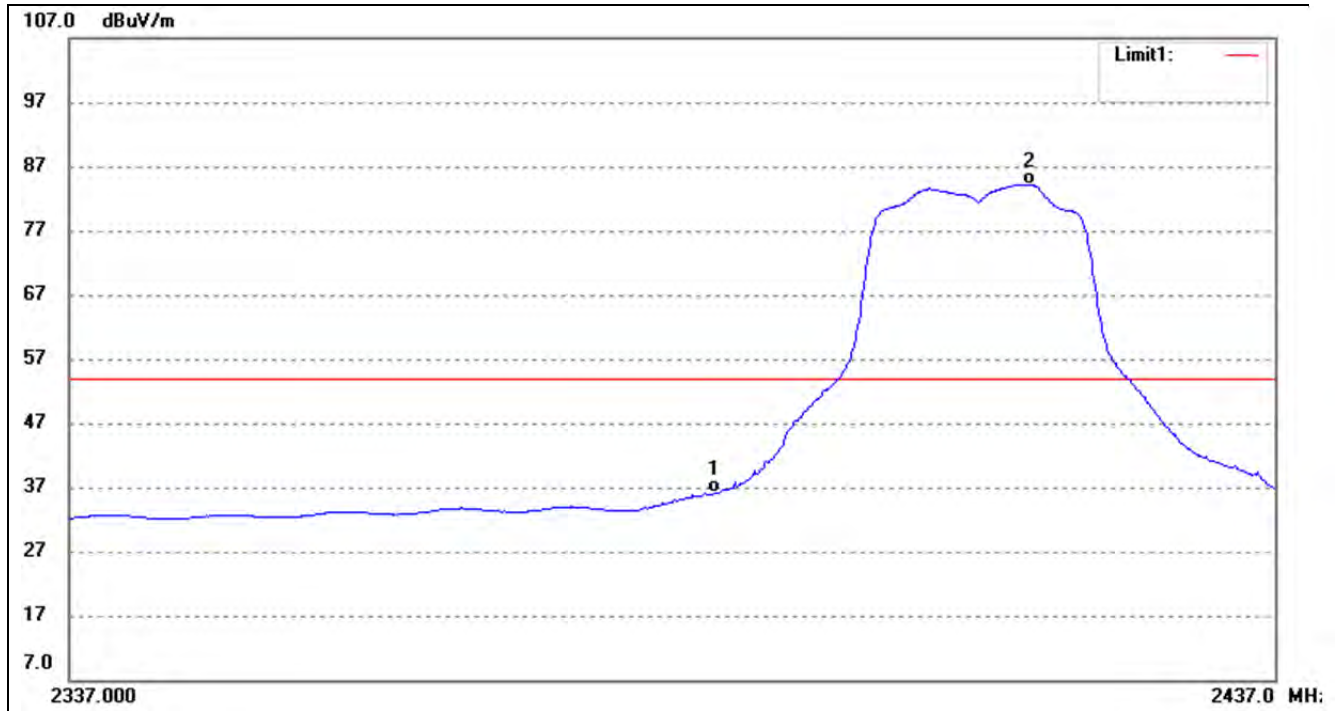
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.17	86.31	-7.31	79.00	/	/	Average Detector
	2463.57	96.64	-7.31	89.33	/	/	Peak Detector
2	2483.50	39.57	-7.28	32.29	54.00	-21.71	Average Detector
	2483.50	49.34	-7.28	42.06	74.00	-31.94	Peak Detector

802.11n-HT20-Lowest Bandedge

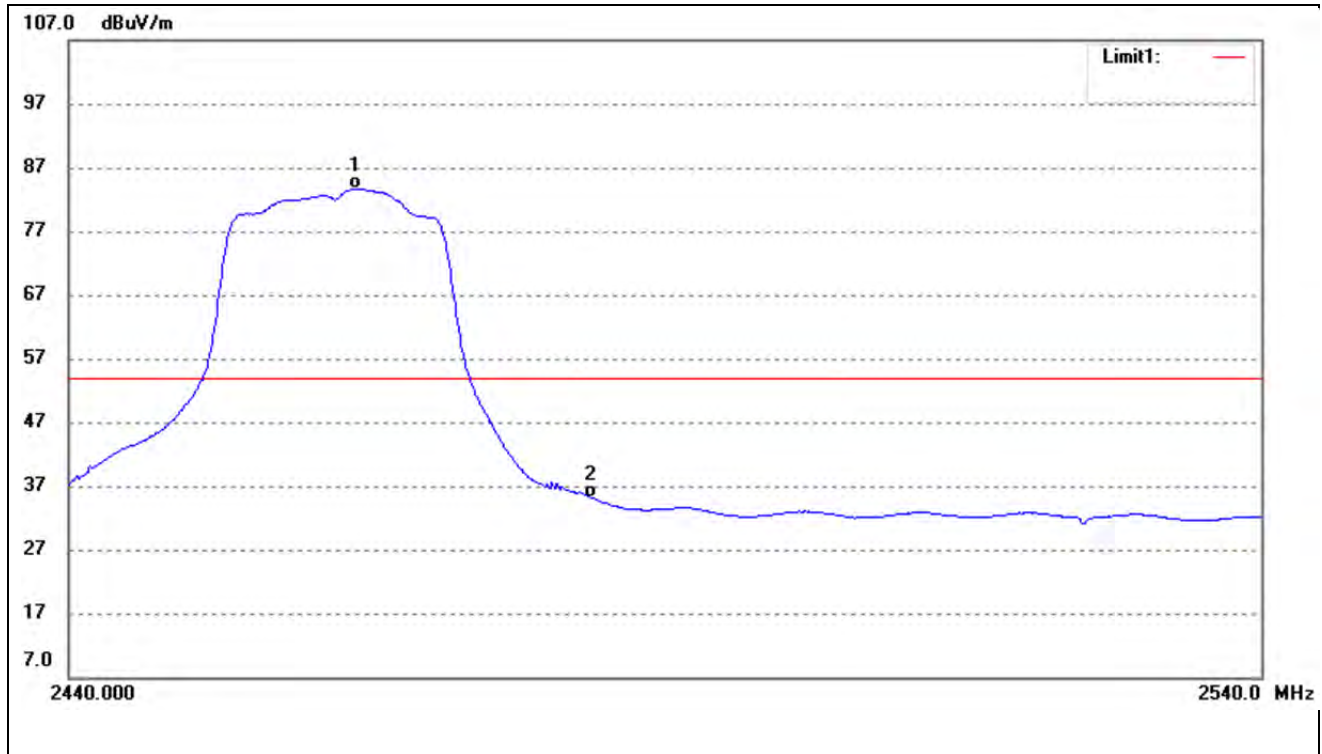
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	43.29	-7.26	36.03	54.00	-17.97	Average Detector
	2390.00	55.63	-7.26	48.37	74.00	-25.63	Peak Detector
2	2416.30	91.62	-7.39	84.23	/	/	Average Detector
	2416.20	101.45	-7.39	94.06	/	/	Peak Detector

802.11n-HT20-Highest Bandedge

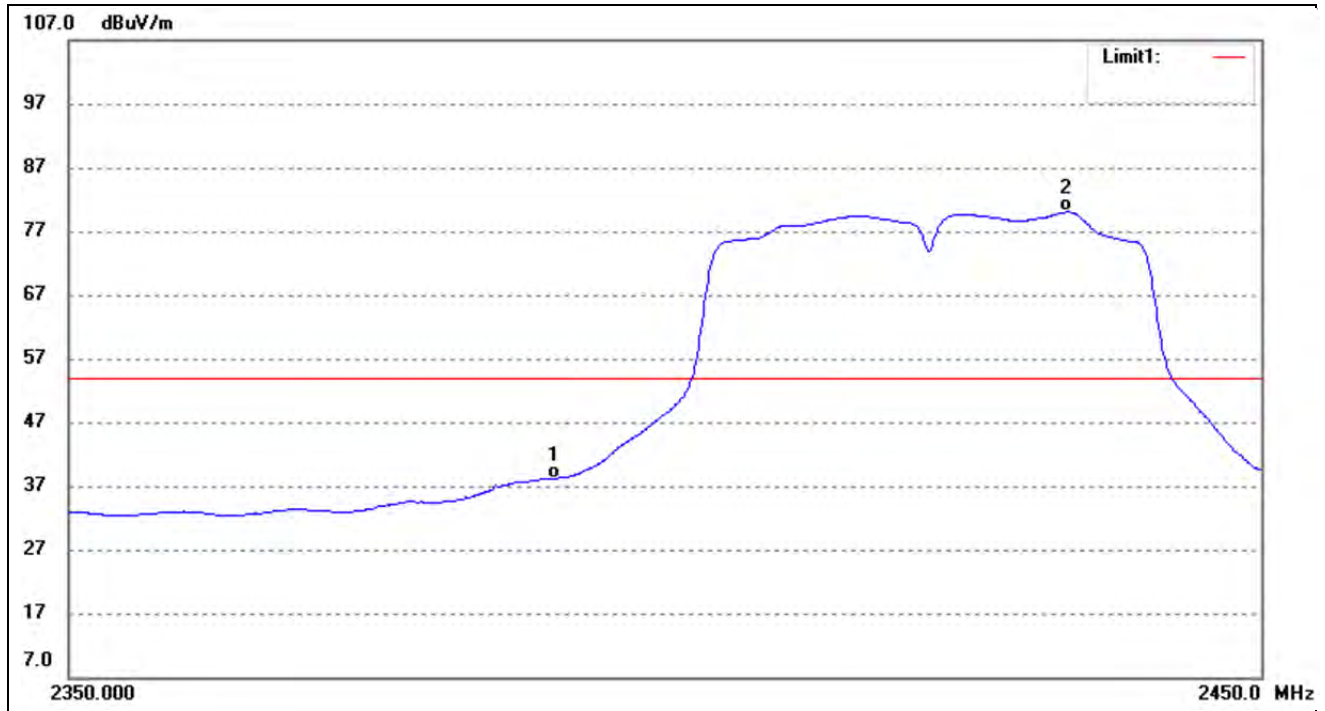
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.60	90.95	-7.31	83.64	/	/	Average Detector
	2463.70	100.06	-7.31	92.75	/	/	Peak Detector
2	2483.50	42.42	-7.28	35.14	54.00	-18.86	Average Detector
	2483.50	52.17	-7.28	44.89	74.00	-29.11	Peak Detector

802.11n-HT40-Lowest Bandedge

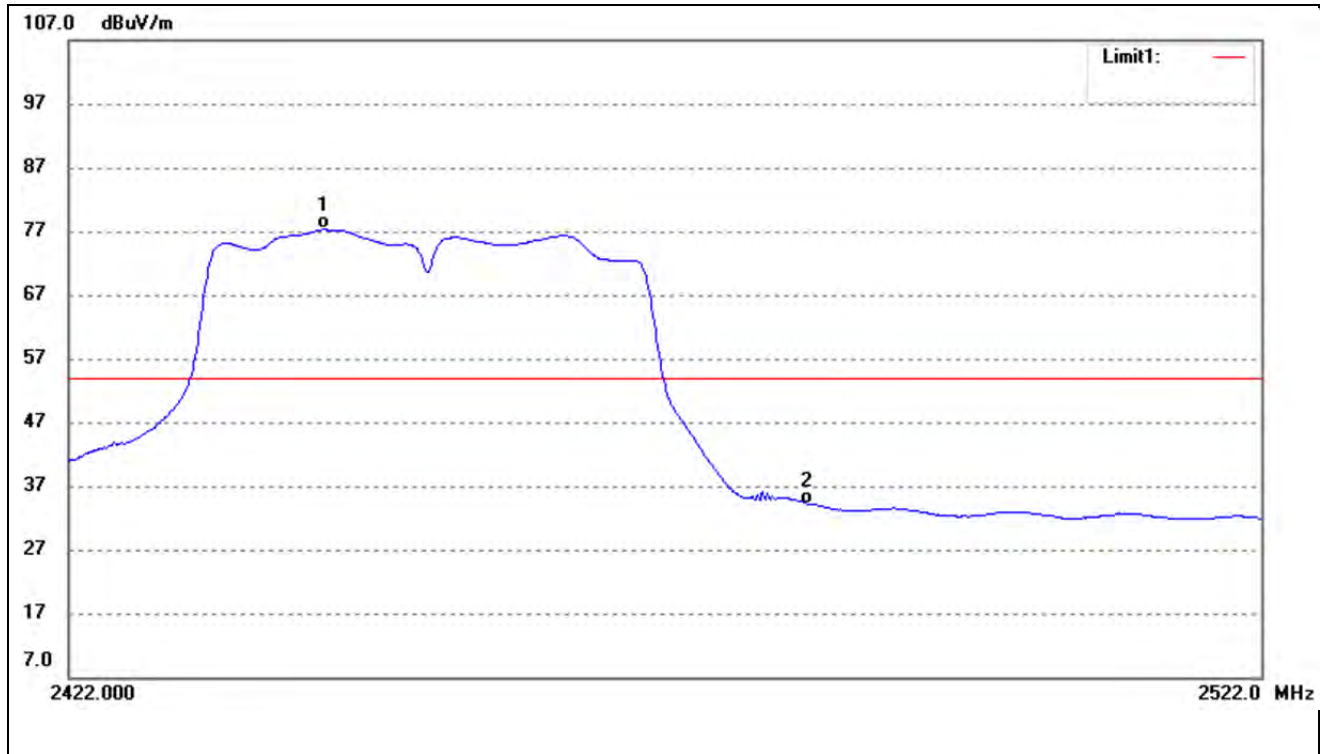
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	45.37	-7.26	38.11	54.00	-15.89	Average Detector
	2390.00	58.43	-7.26	51.17	74.00	-22.83	Peak Detector
2	2433.41	87.45	-7.37	80.08	/	/	Average Detector
	2424.63	98.03	-7.38	90.65	/	/	Peak Detector

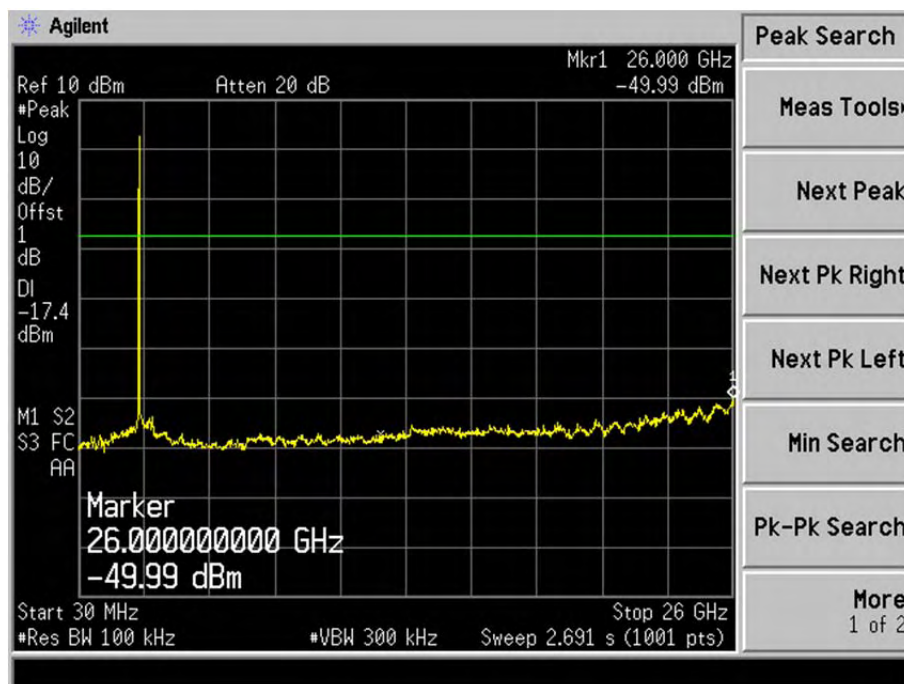
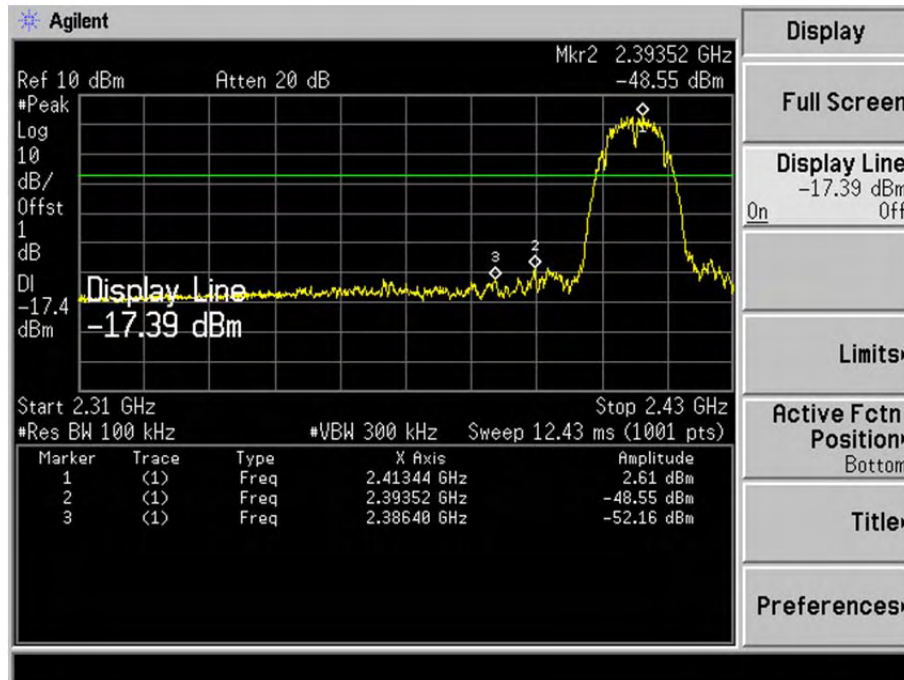
802.11n-HT40-Highest Bandedge

Vertical (Worst case)

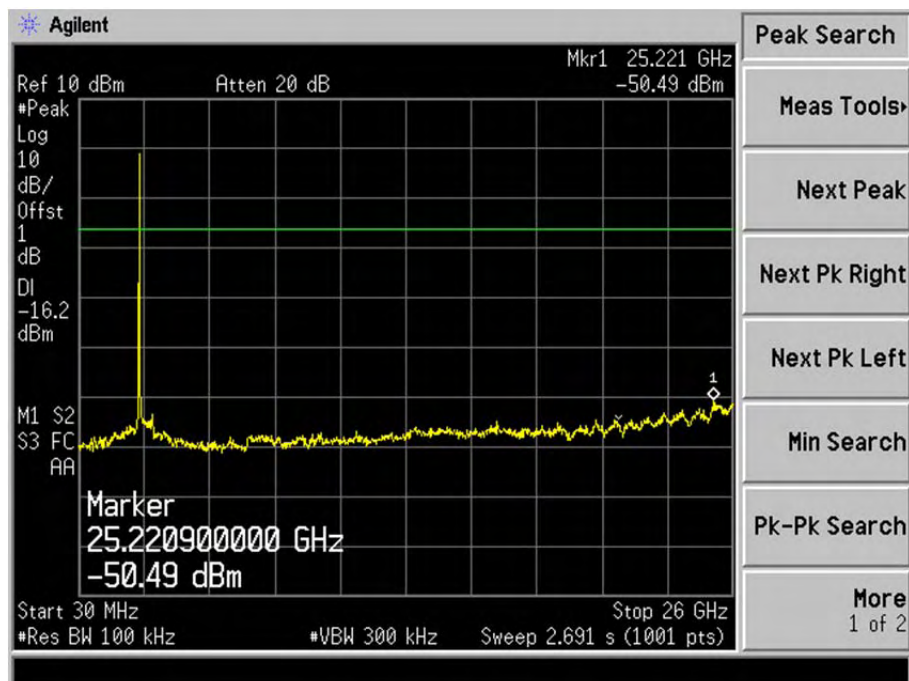
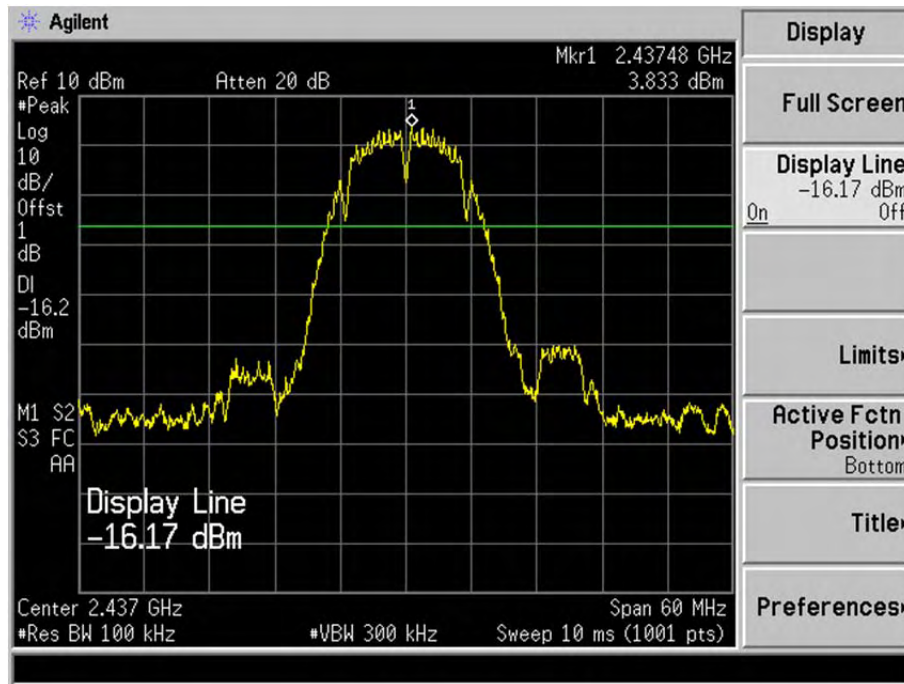


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2443.06	84.65	-7.35	77.30	/	/	Average Detector
	2443.26	94.04	-7.35	86.69	/	/	Peak Detector
2	2483.50	41.47	-7.28	34.19	54.00	-19.81	Average Detector
	2483.50	50.78	-7.28	43.50	74.00	-30.50	Peak Detector

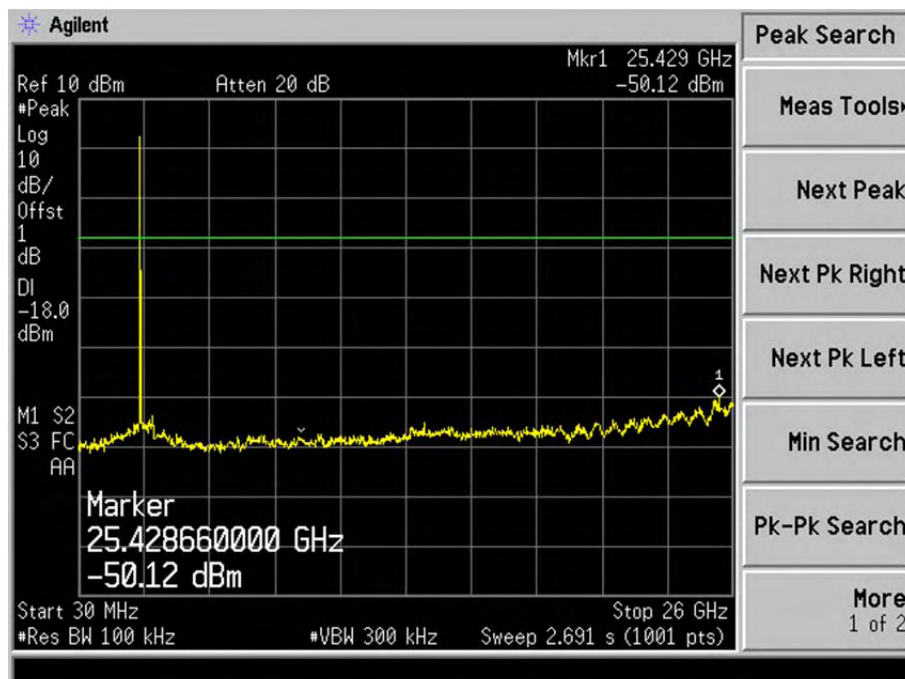
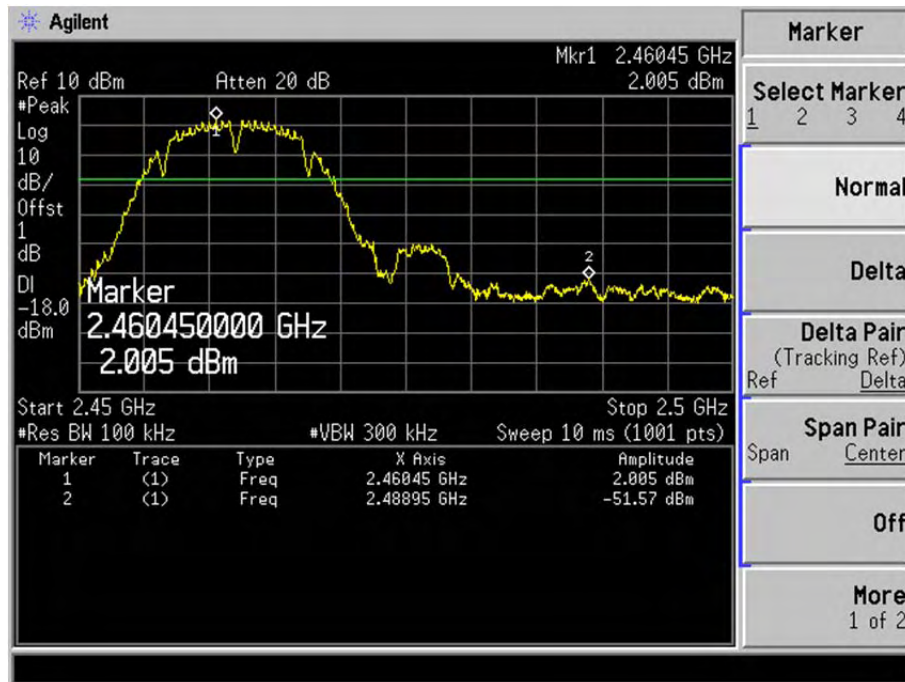
WiFi Antenna A
Spurious (Conducted)
802.11b-Lowest
Lowest



Middle



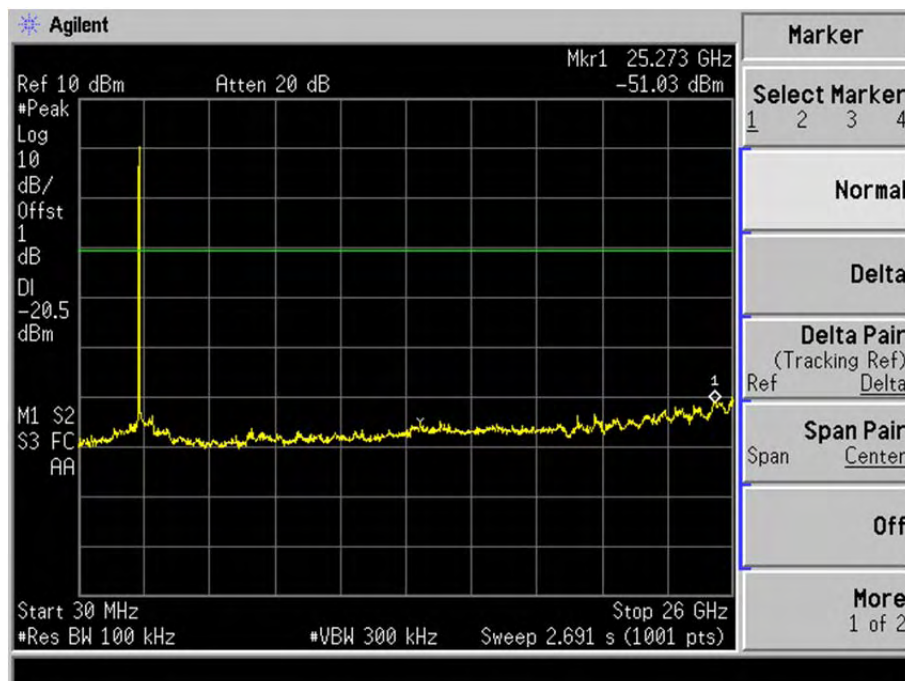
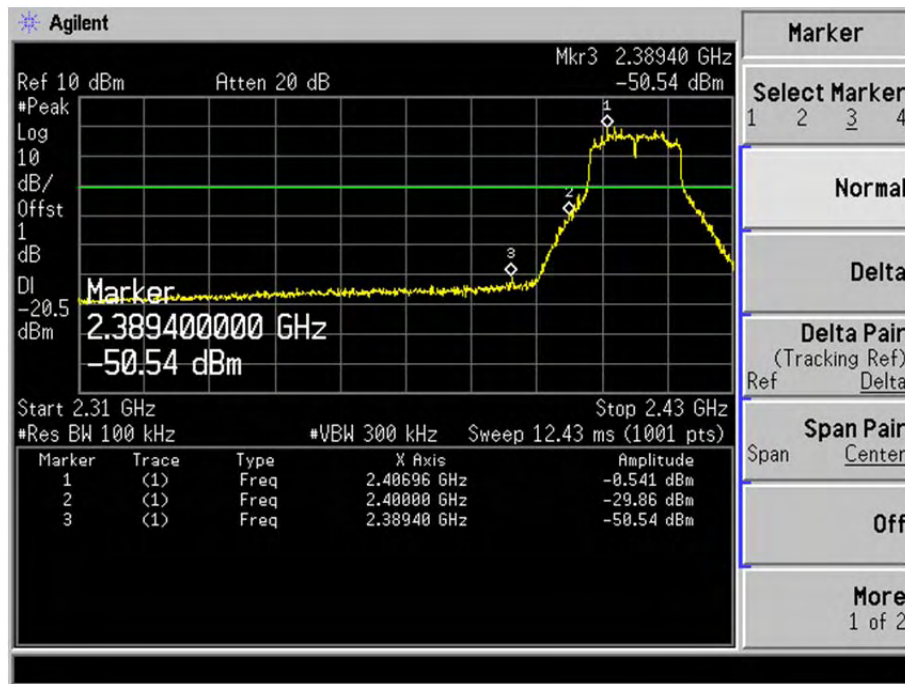
Highest



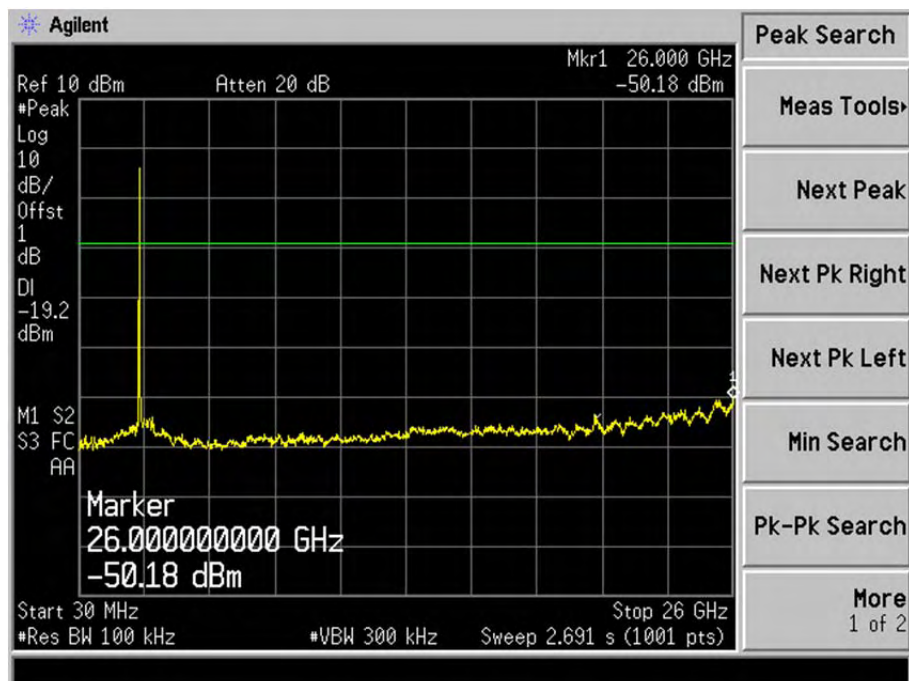
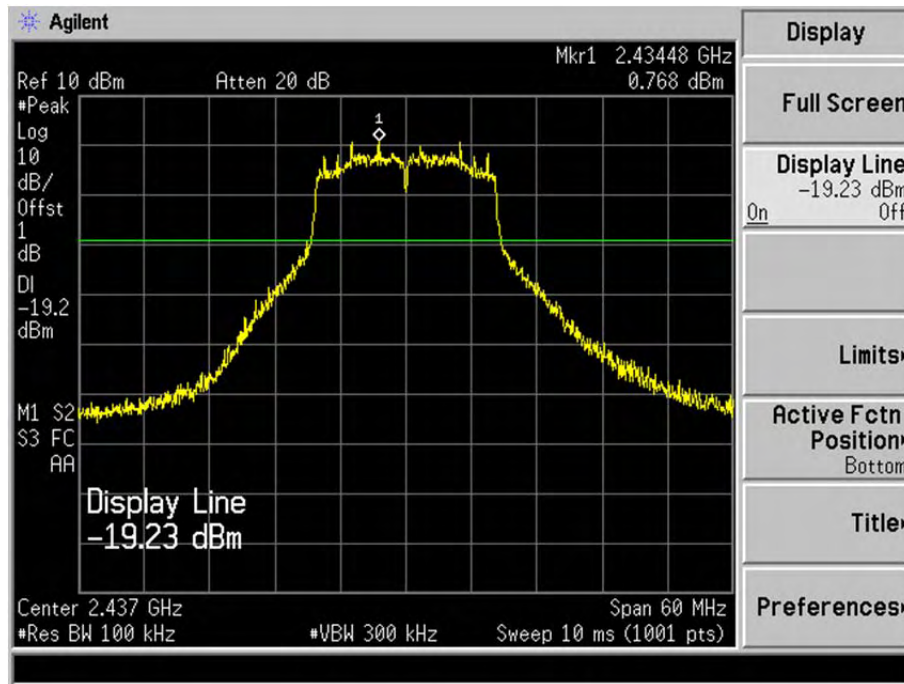
Spurious (Conducted)

802.11g-Lowest

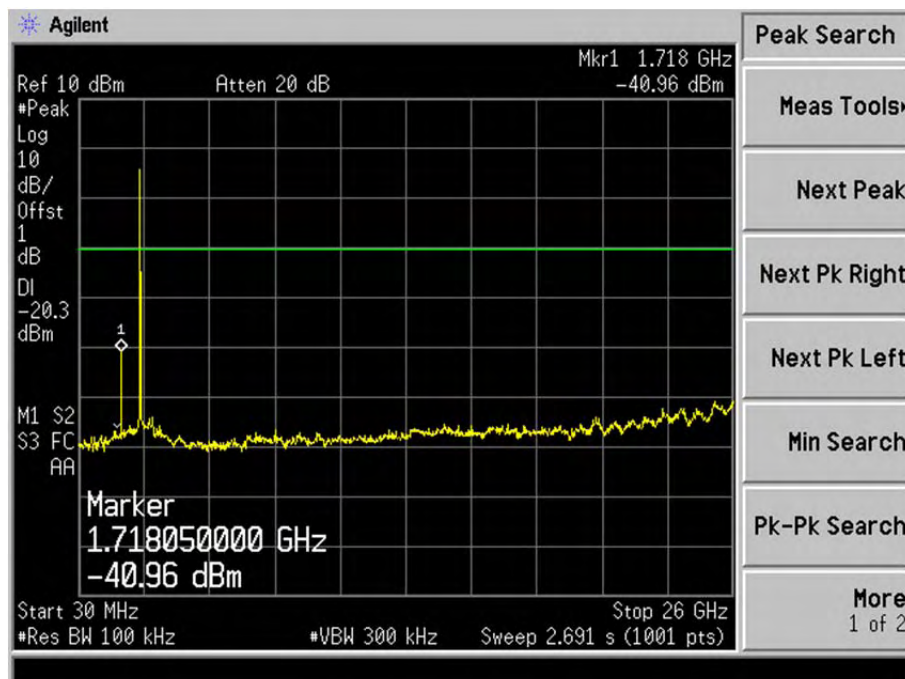
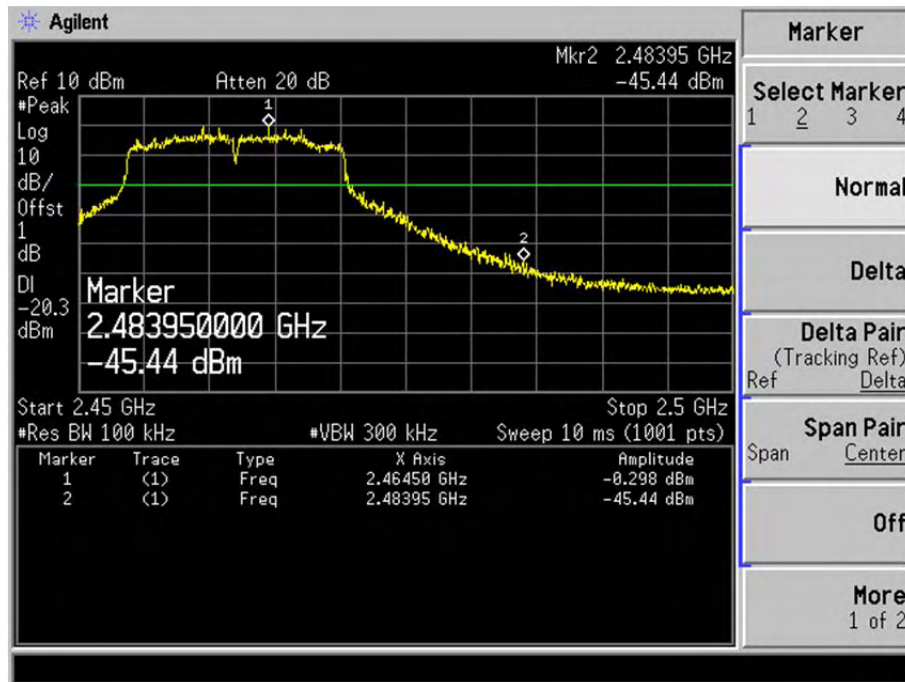
Lowest



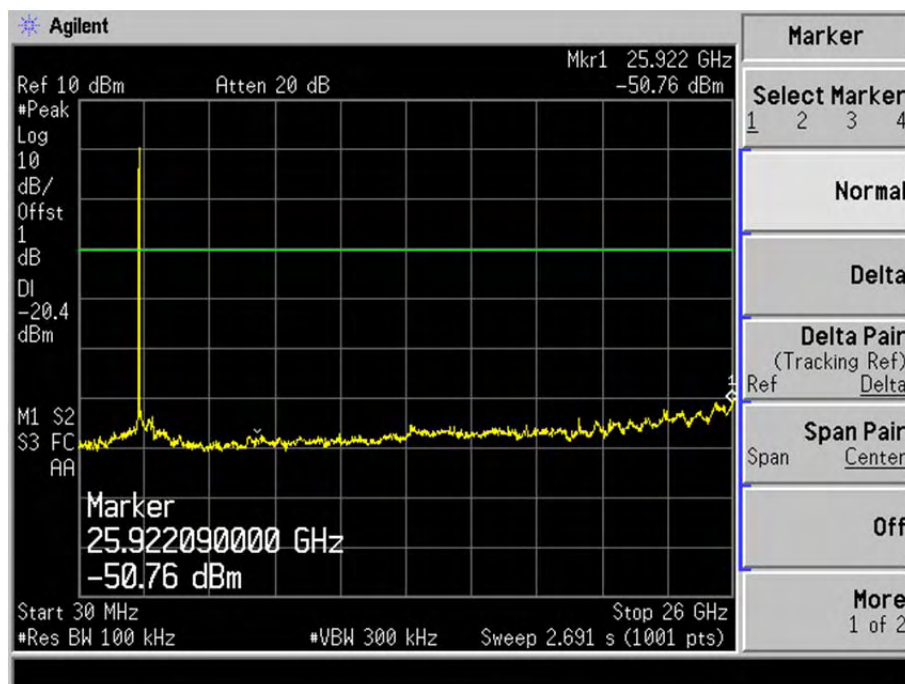
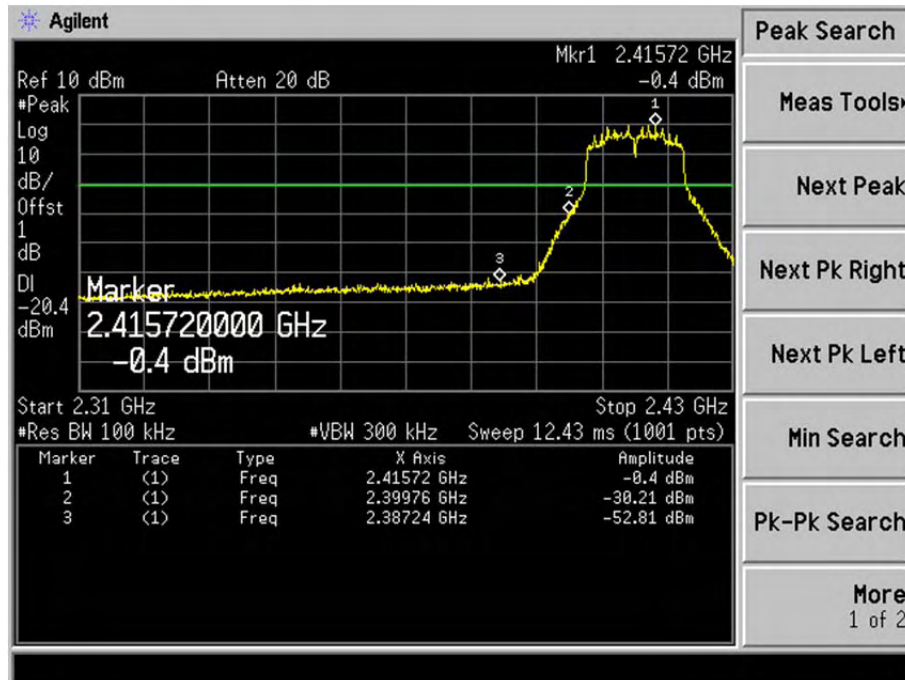
Middle



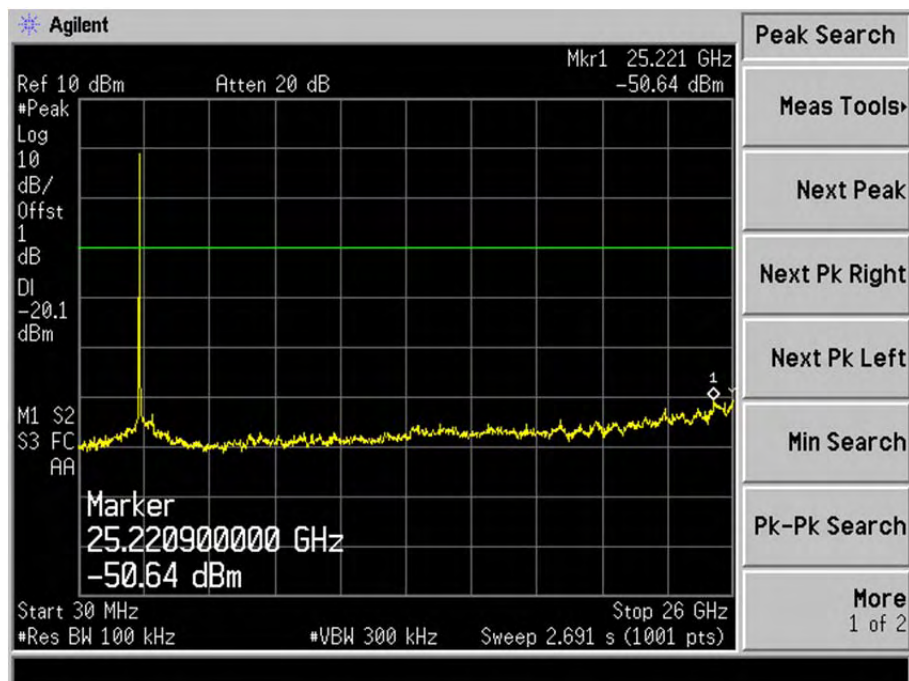
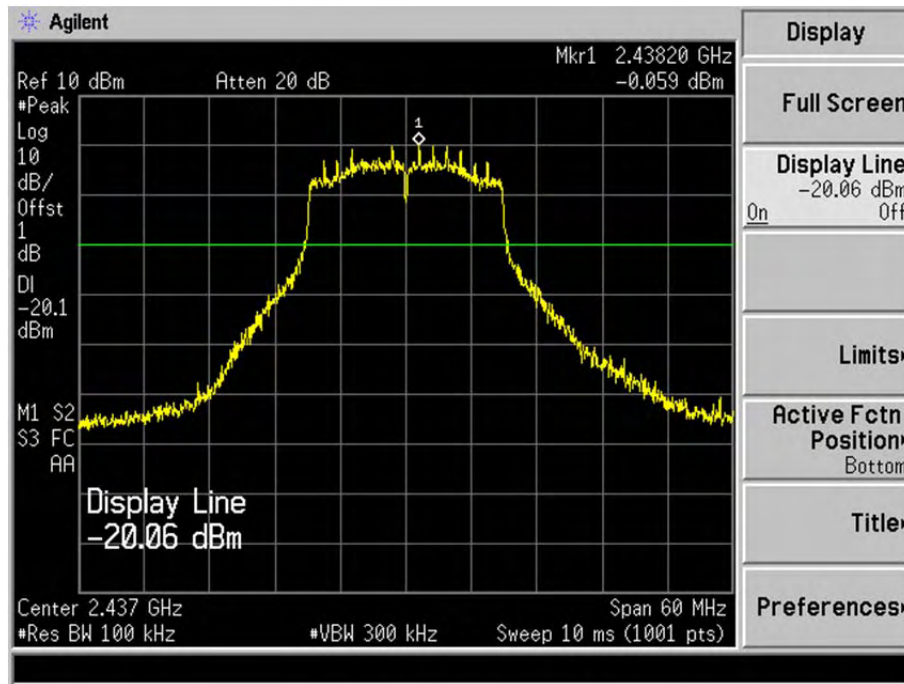
Highest



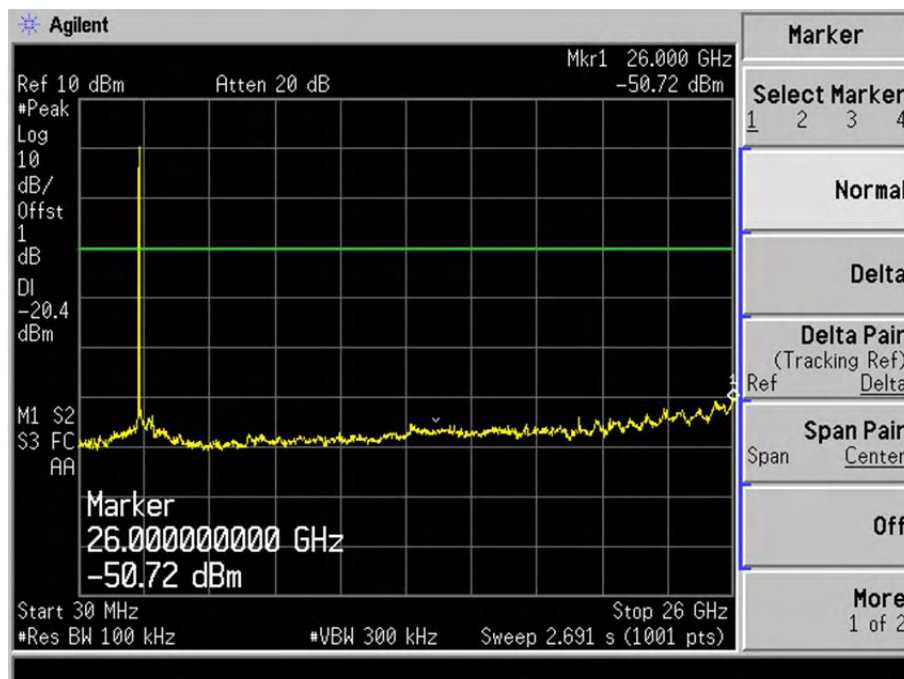
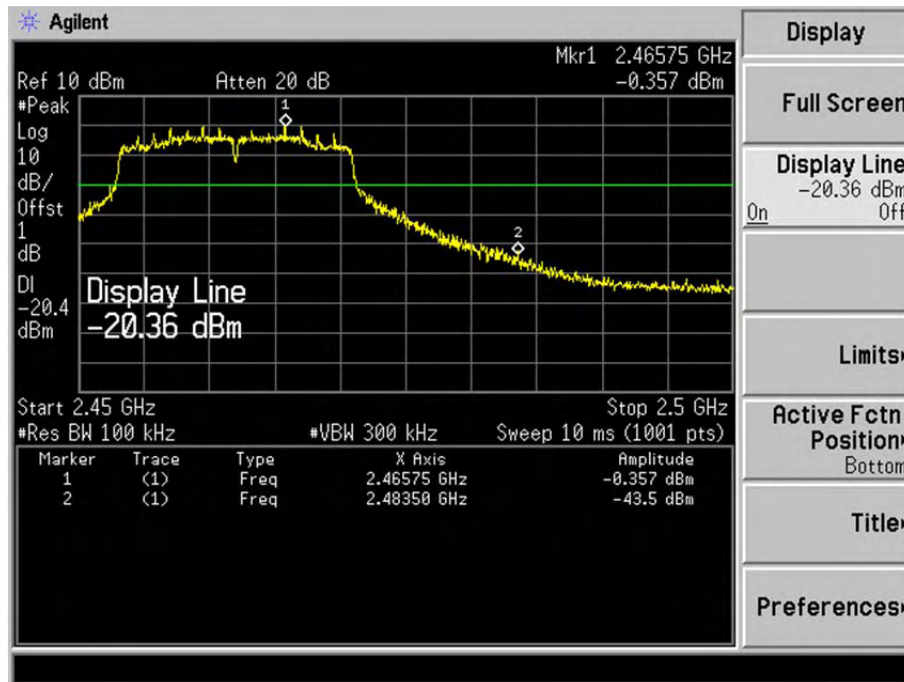
Spurious (Conducted)
802.11n-HT20-Lowest
Lowest



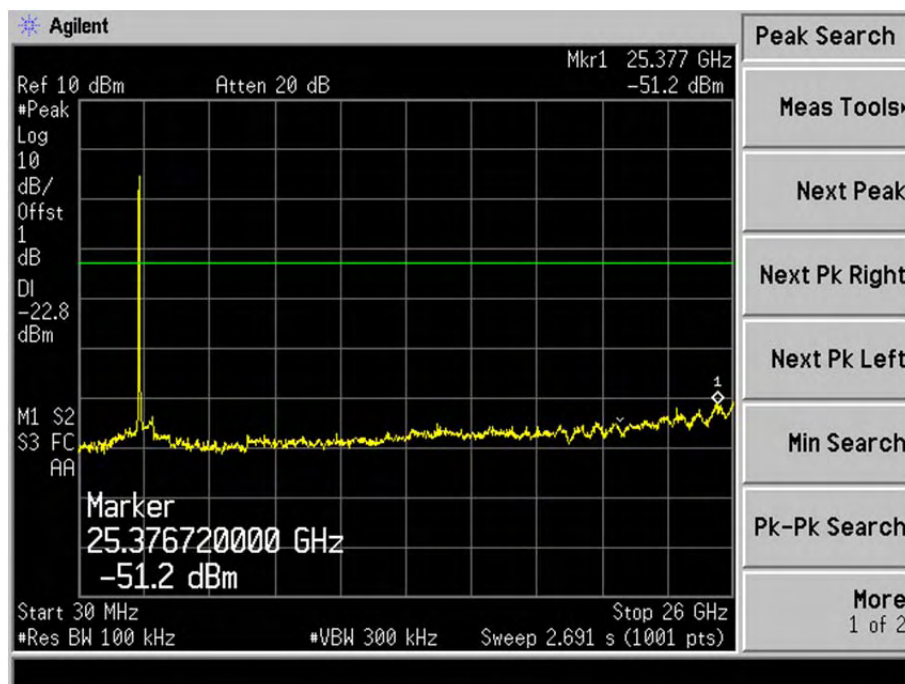
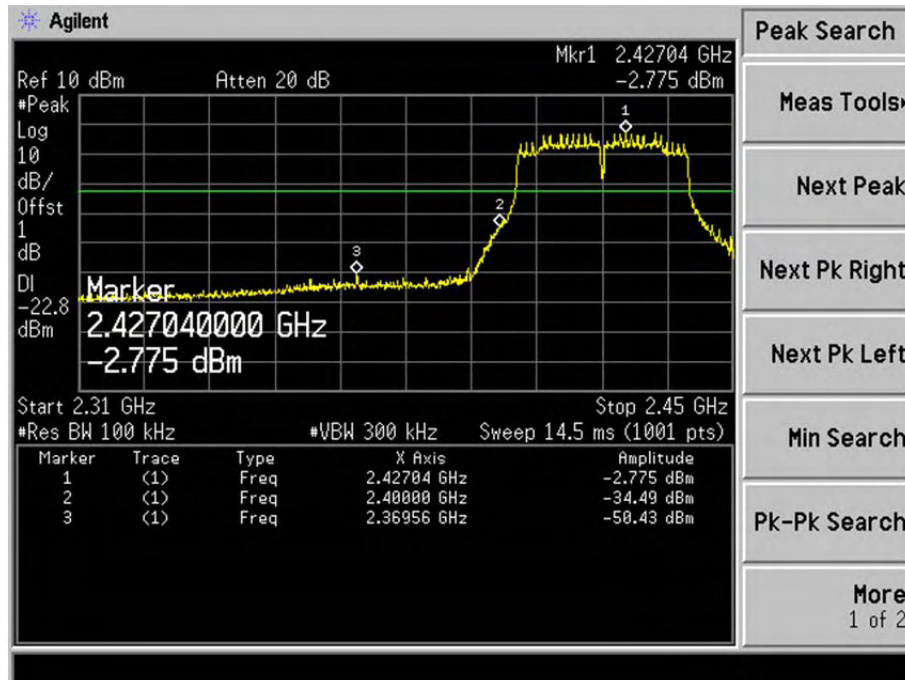
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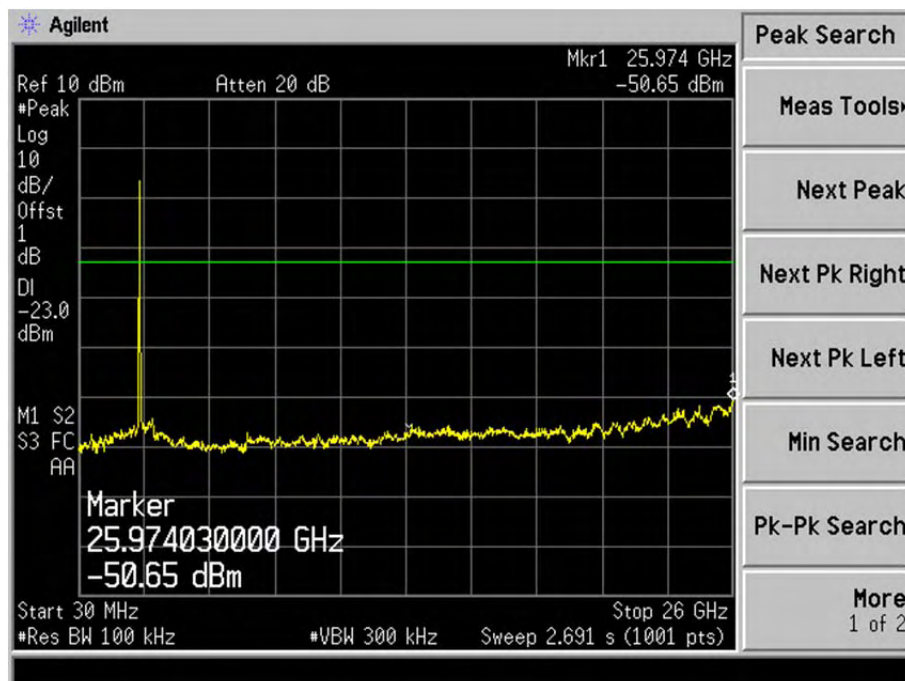
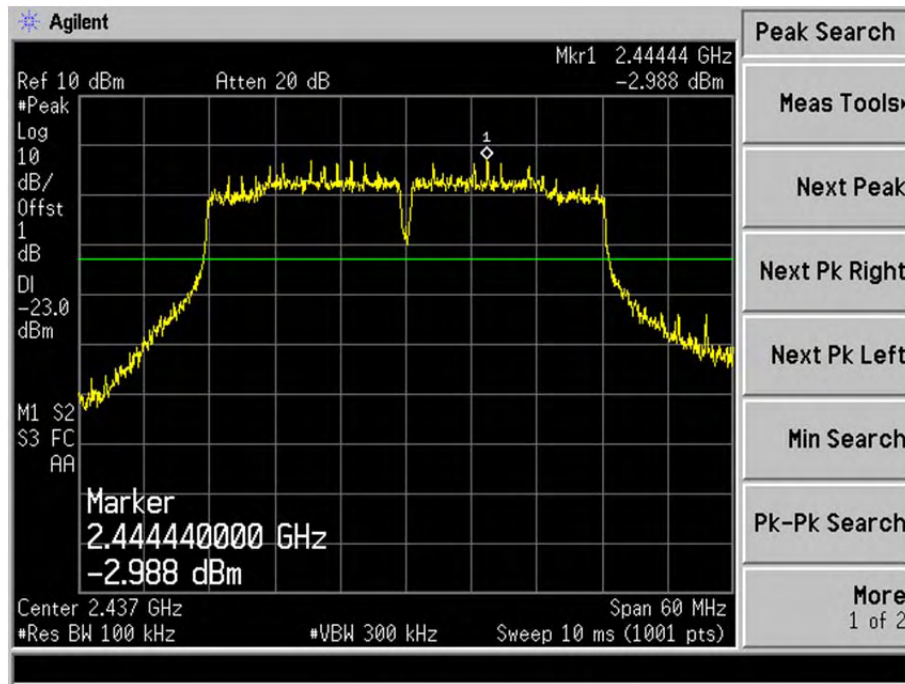
Highest



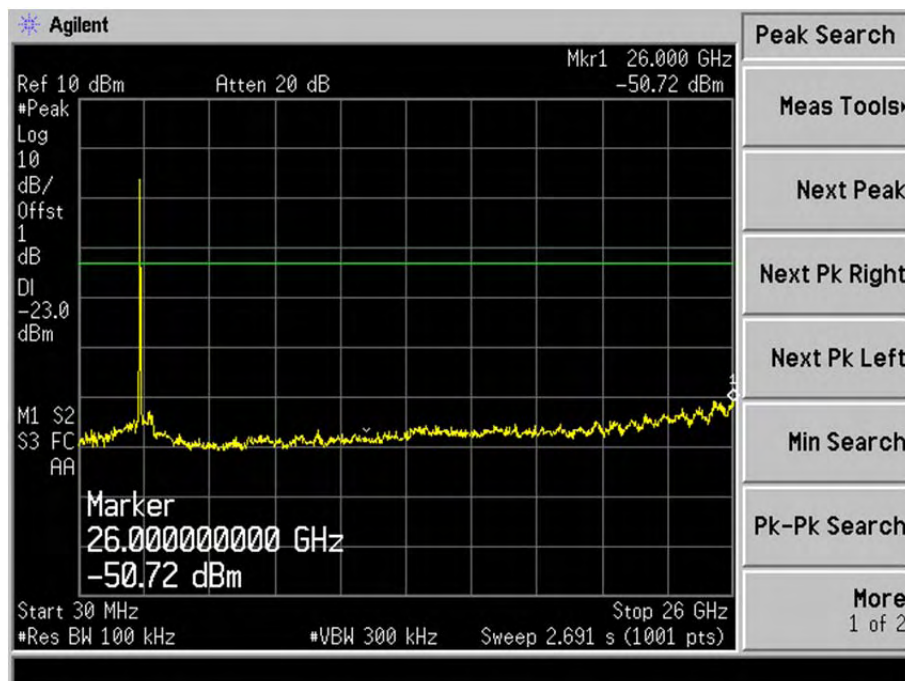
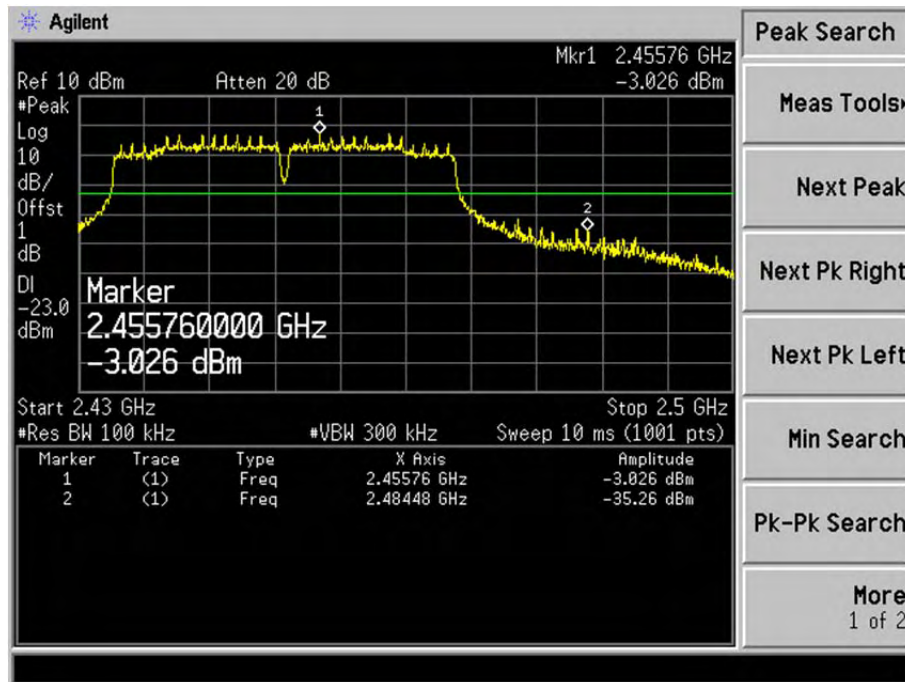
Spurious (Conducted)
802.11n-HT40-Lowest
Lowest



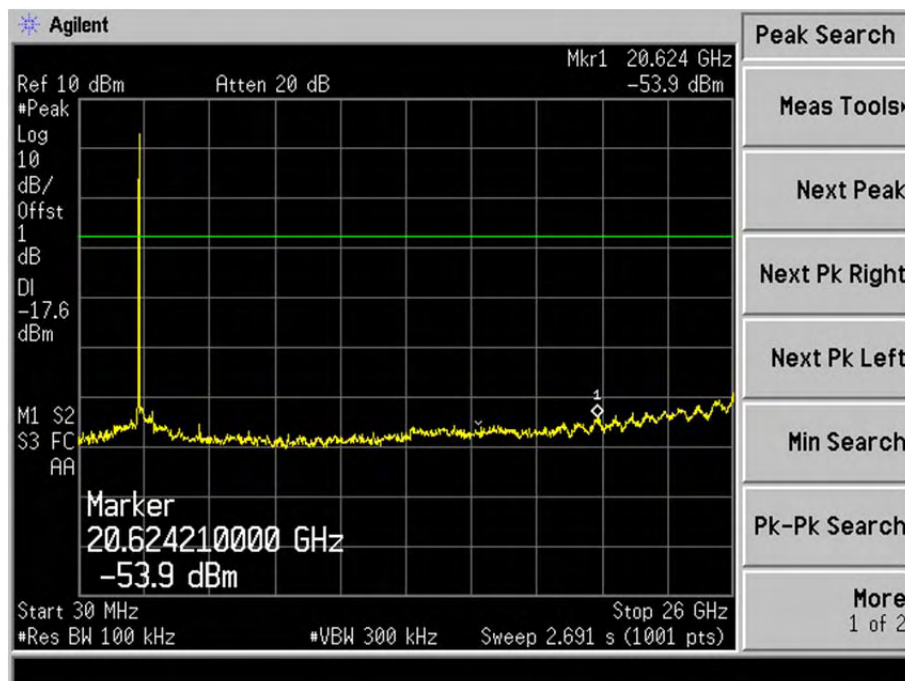
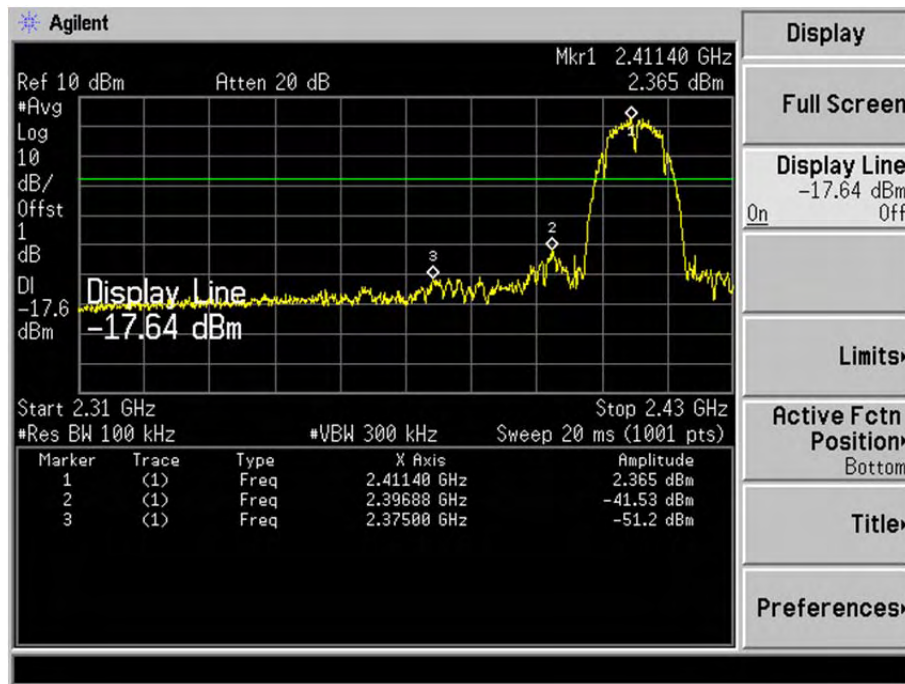
Middle



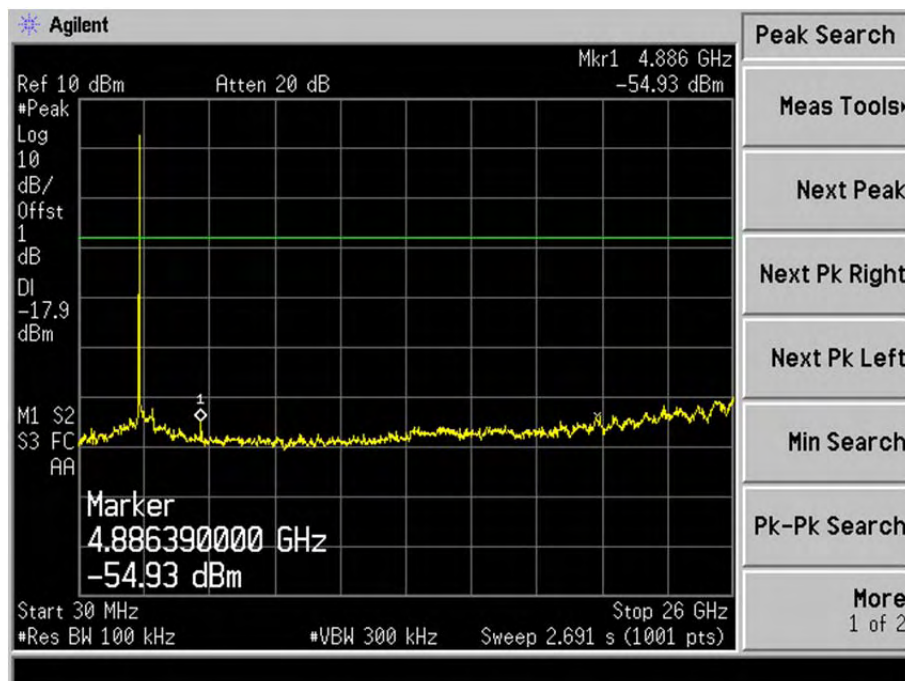
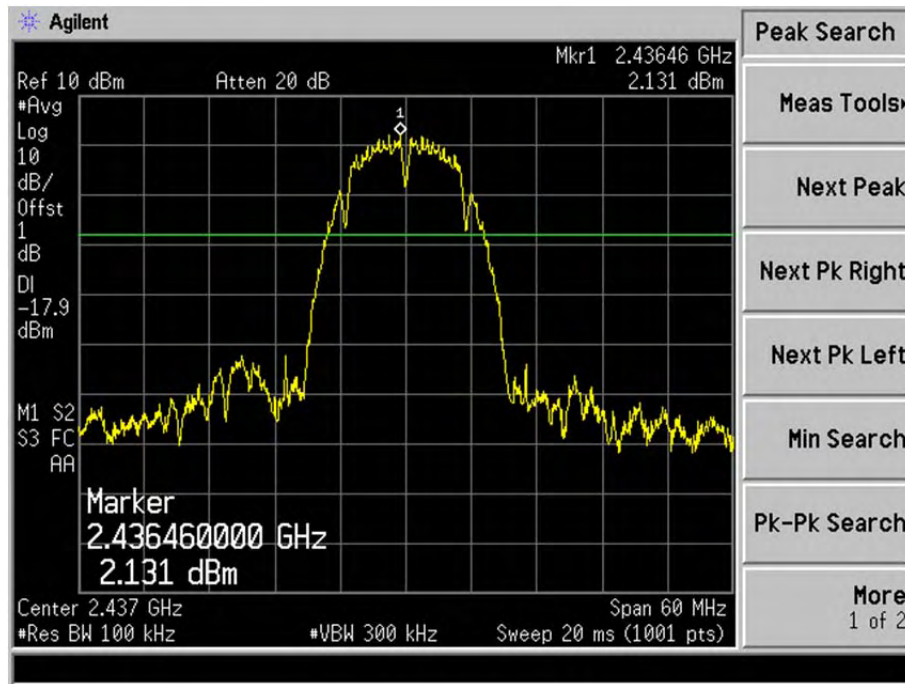
Highest



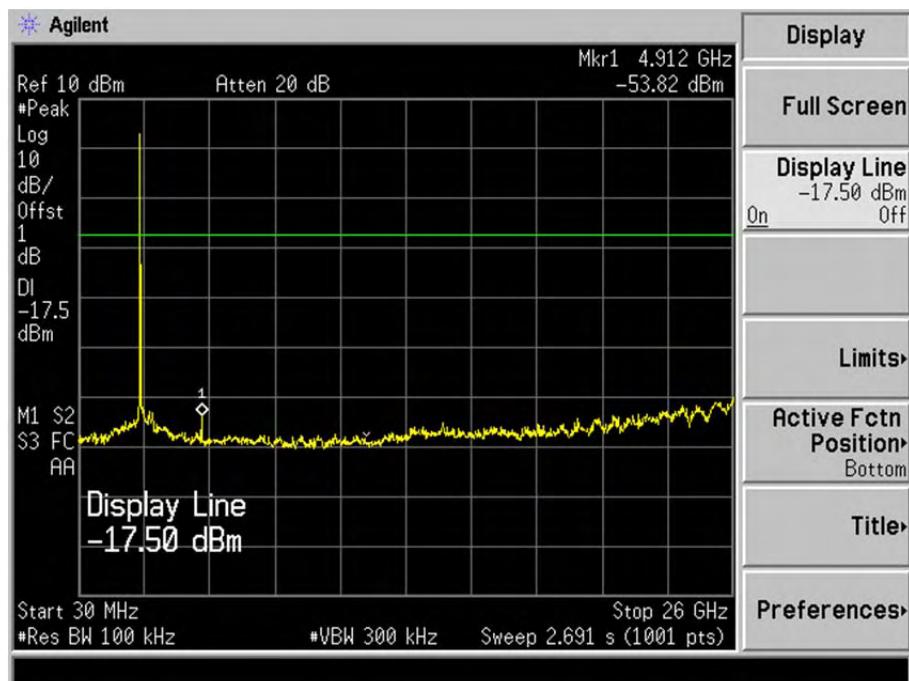
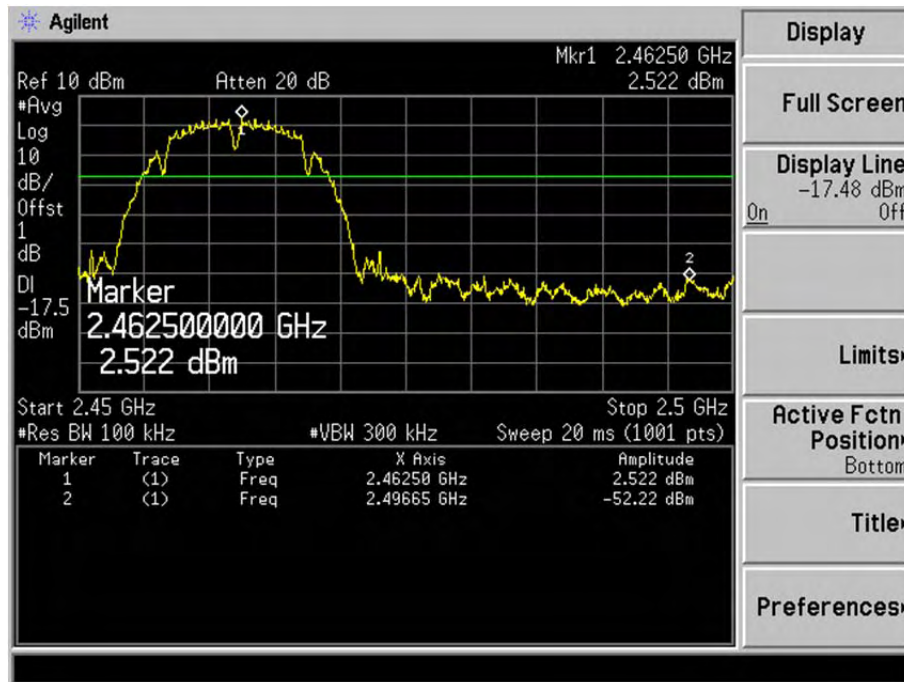
WiFi Antenna B
Spurious (Conducted)
802.11b-Lowest



Middle

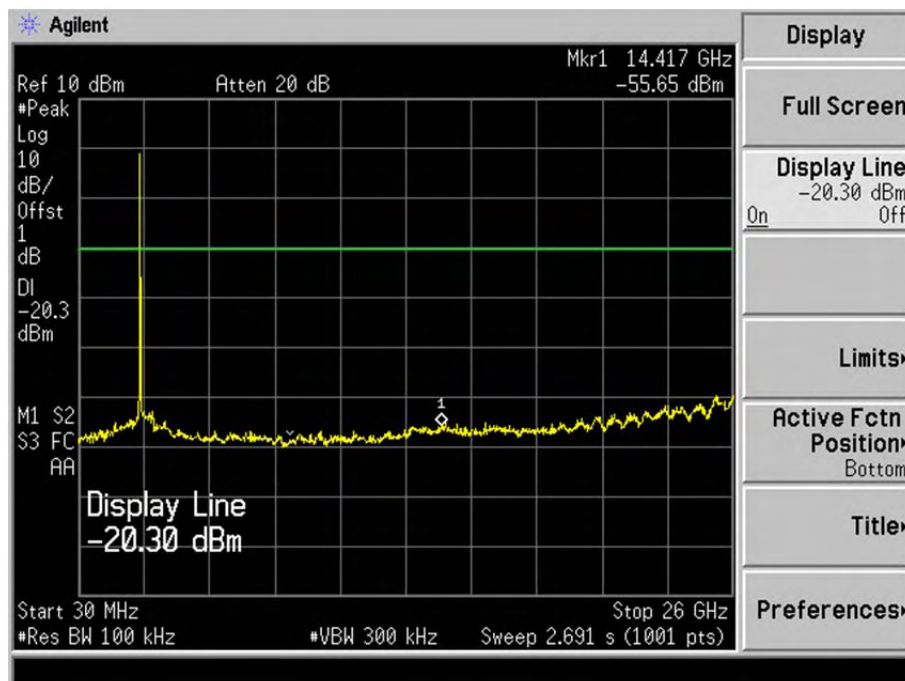
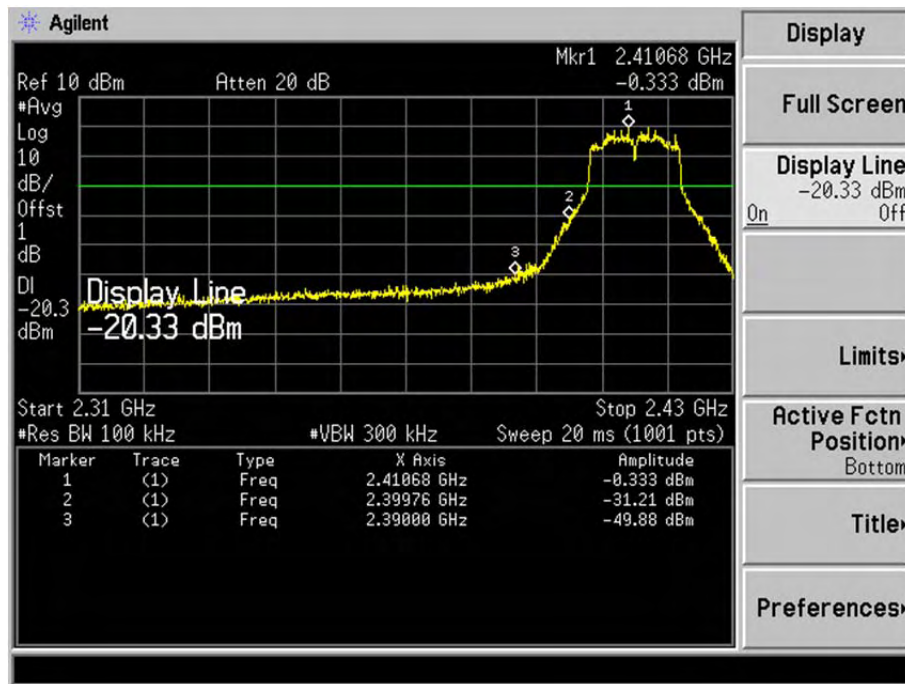


Highest

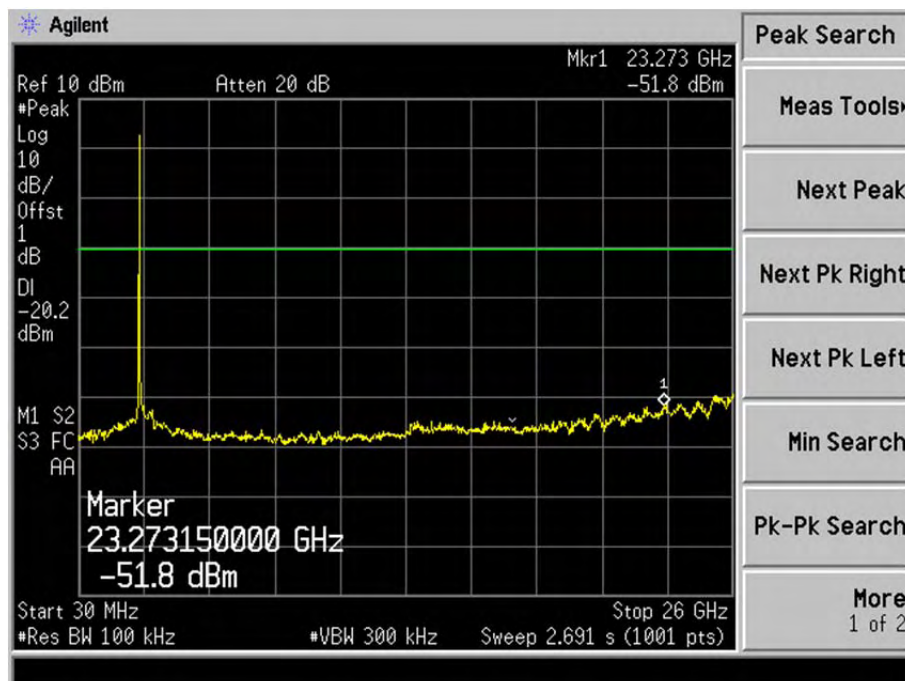
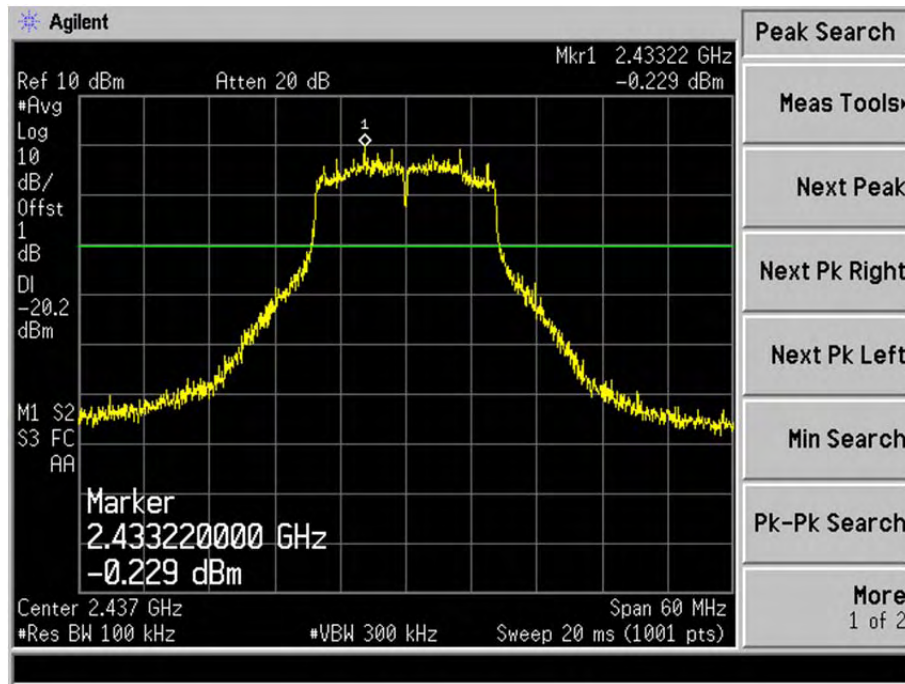


Spurious (Conducted)

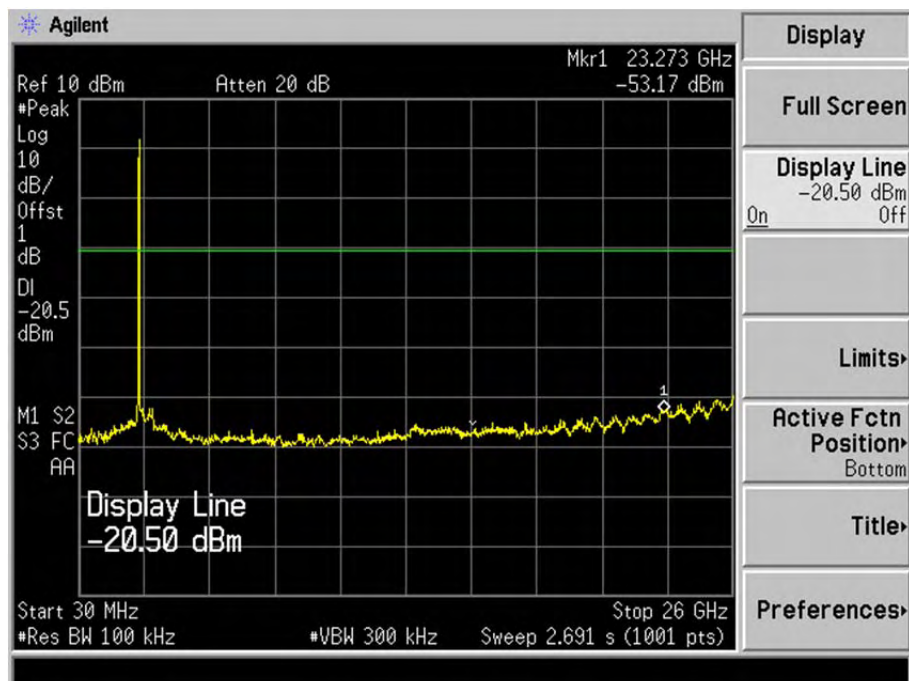
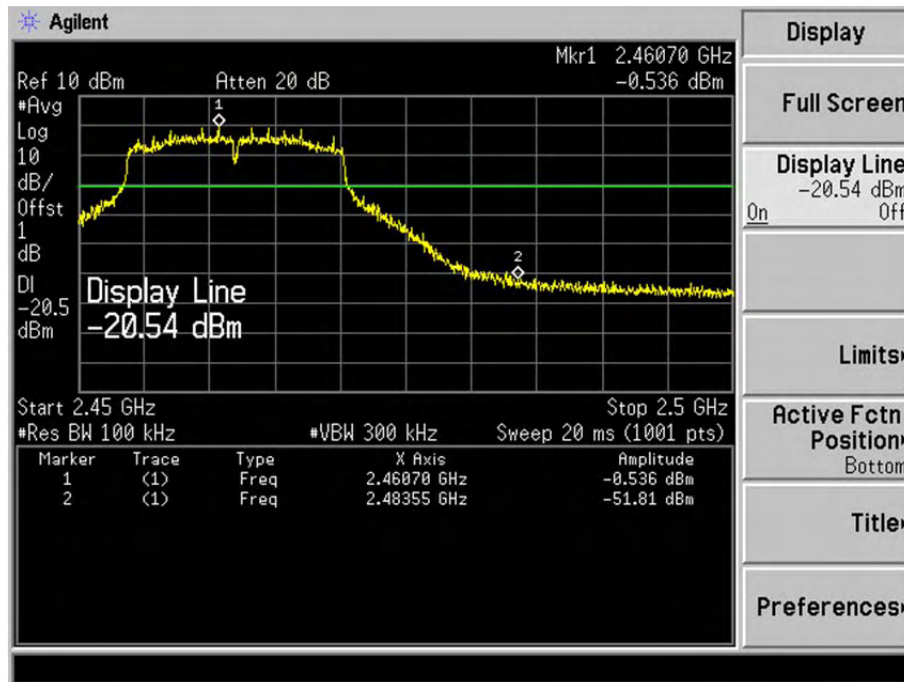
802.11g-Lowest



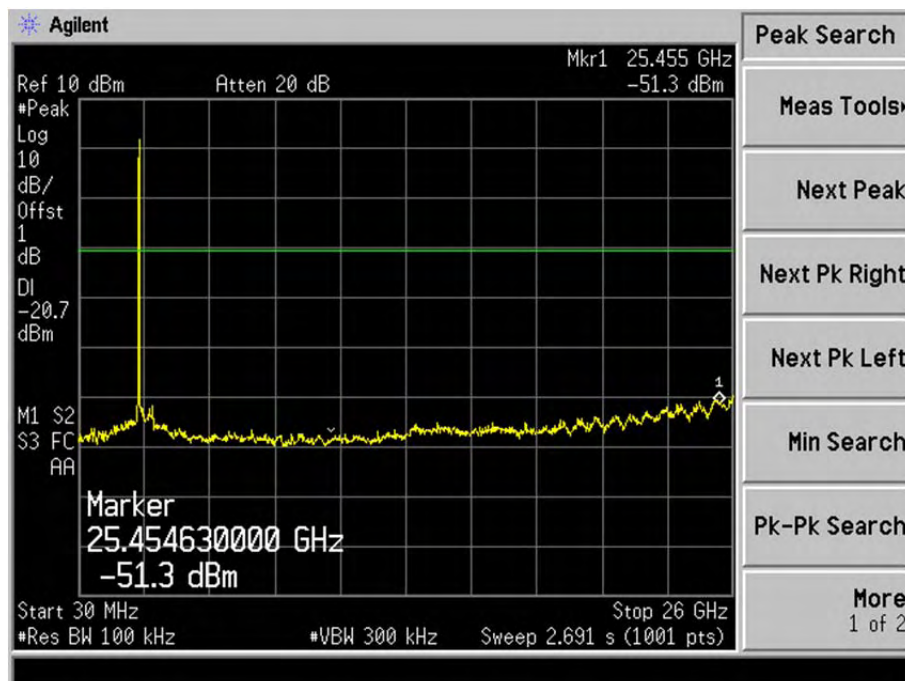
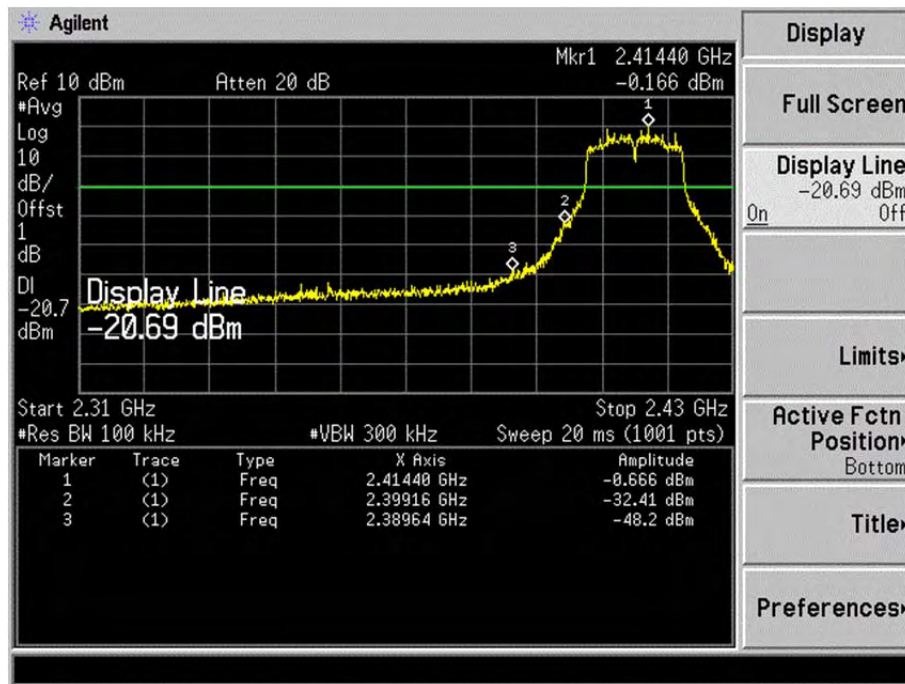
Middle



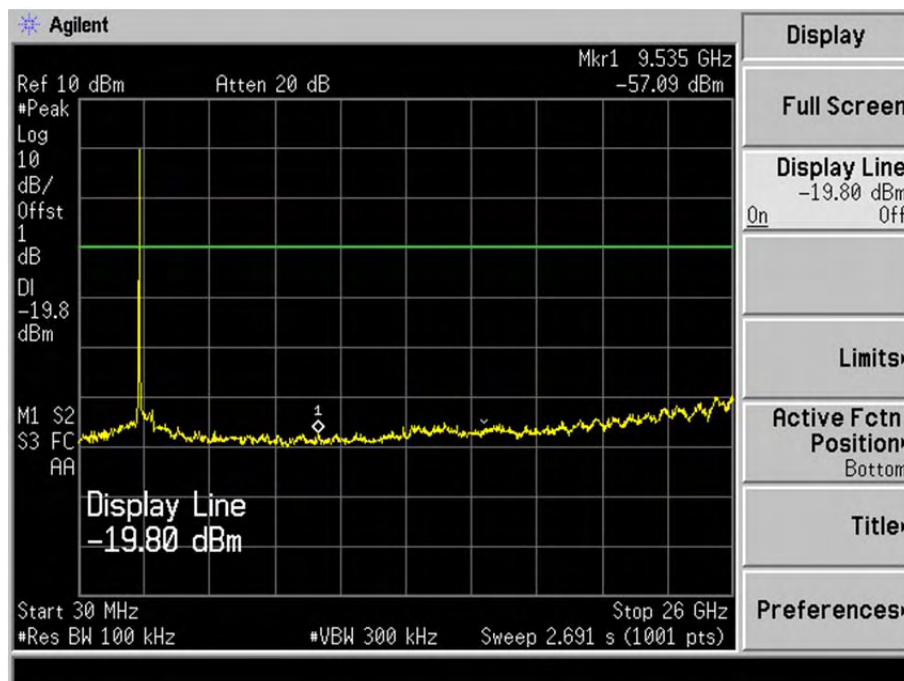
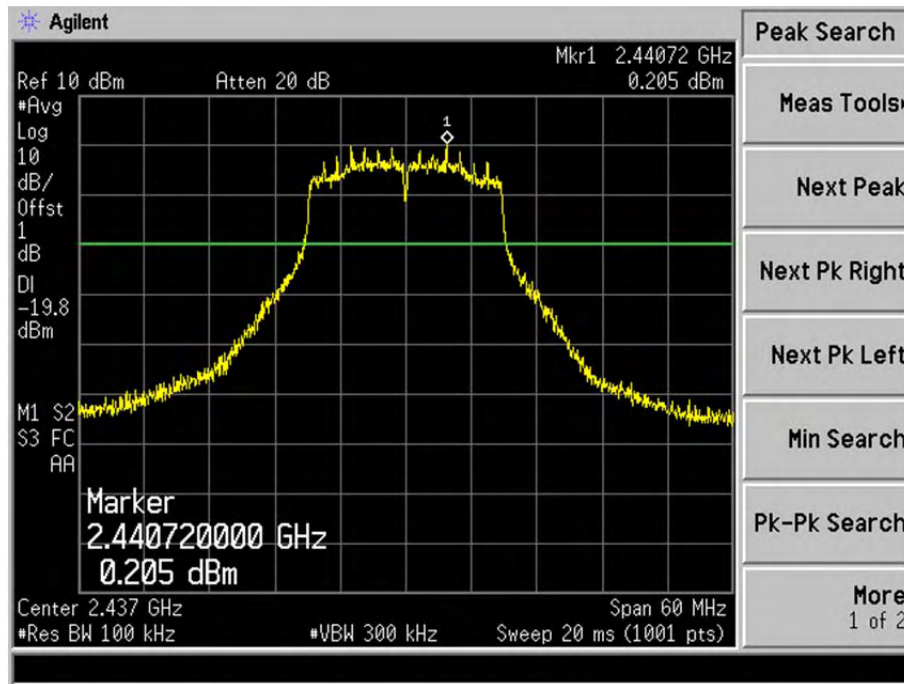
Highest



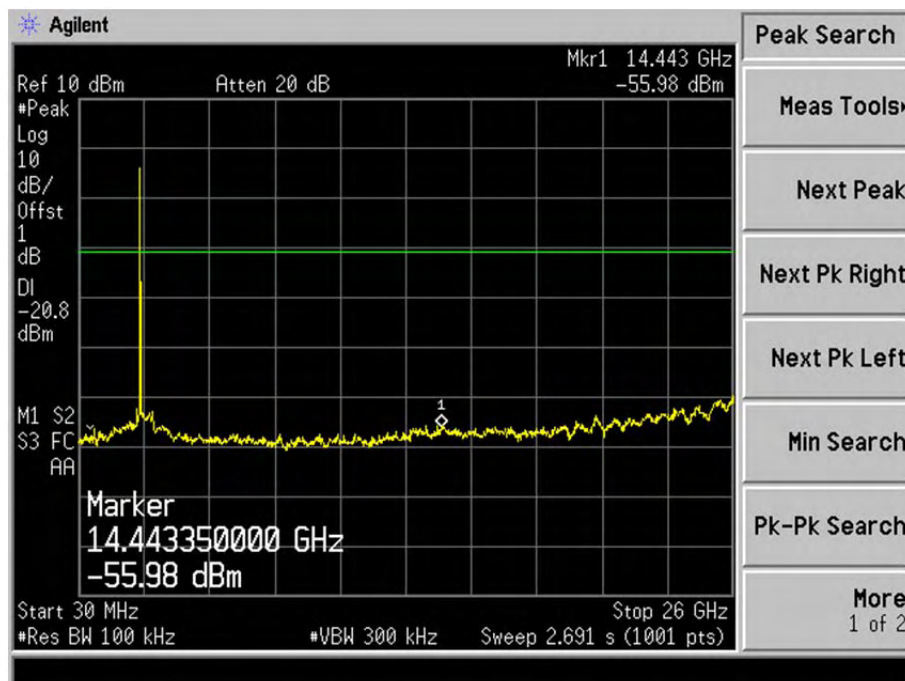
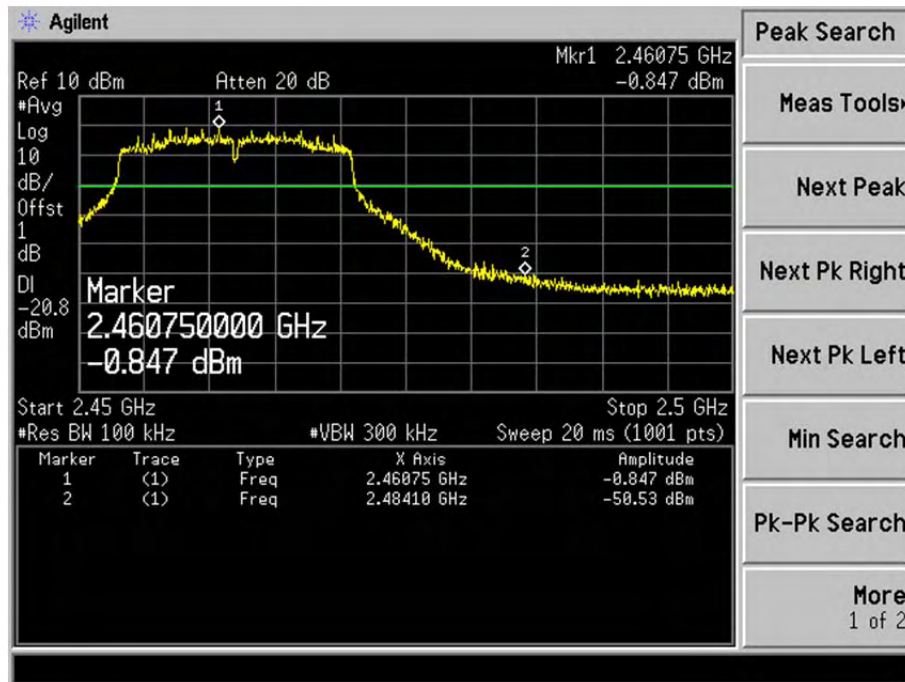
Spurious (Conducted)
802.11n-HT20-Lowest



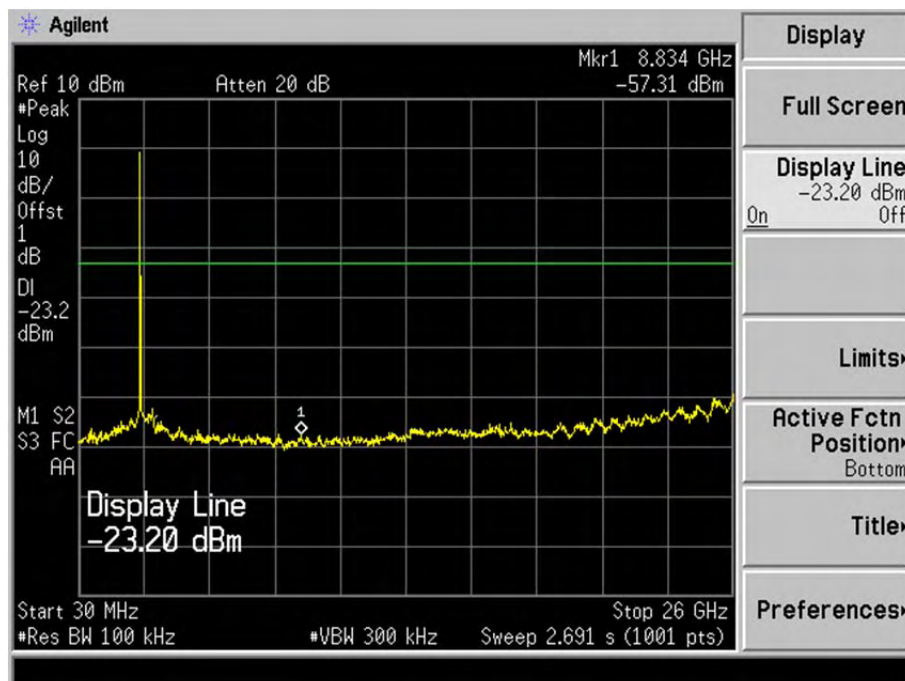
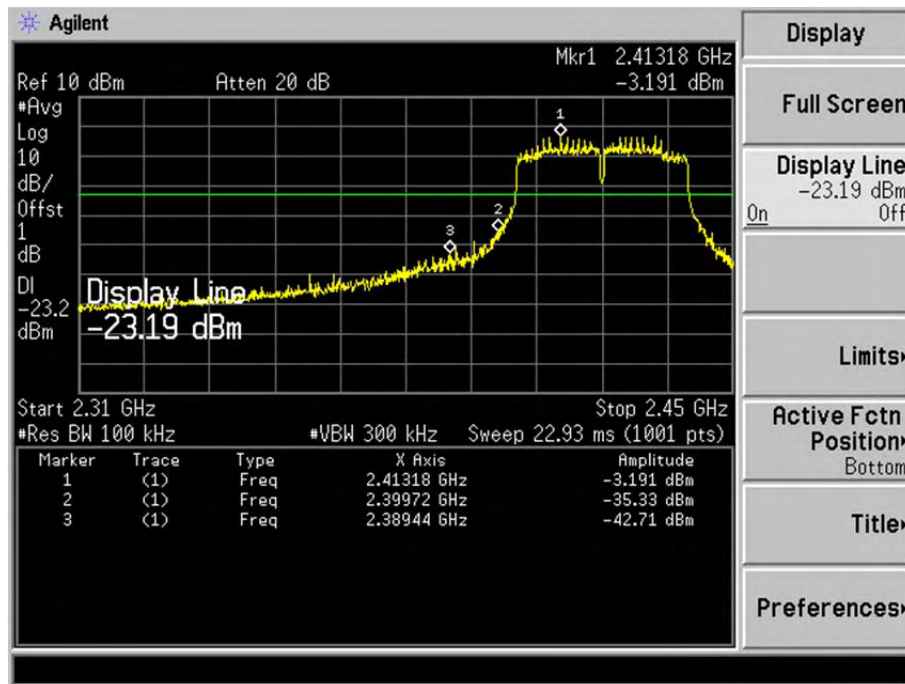
Middle



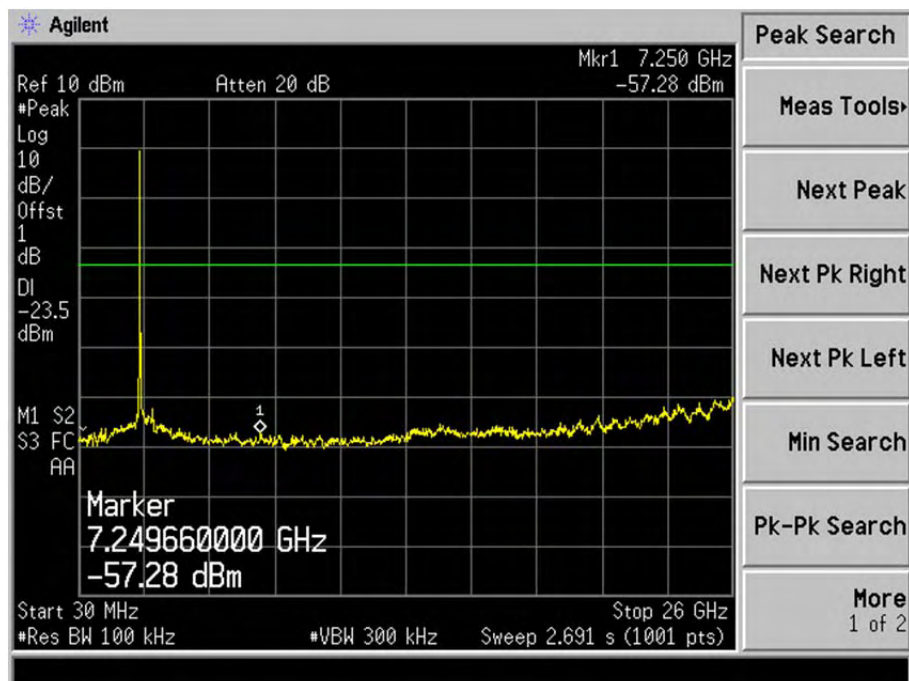
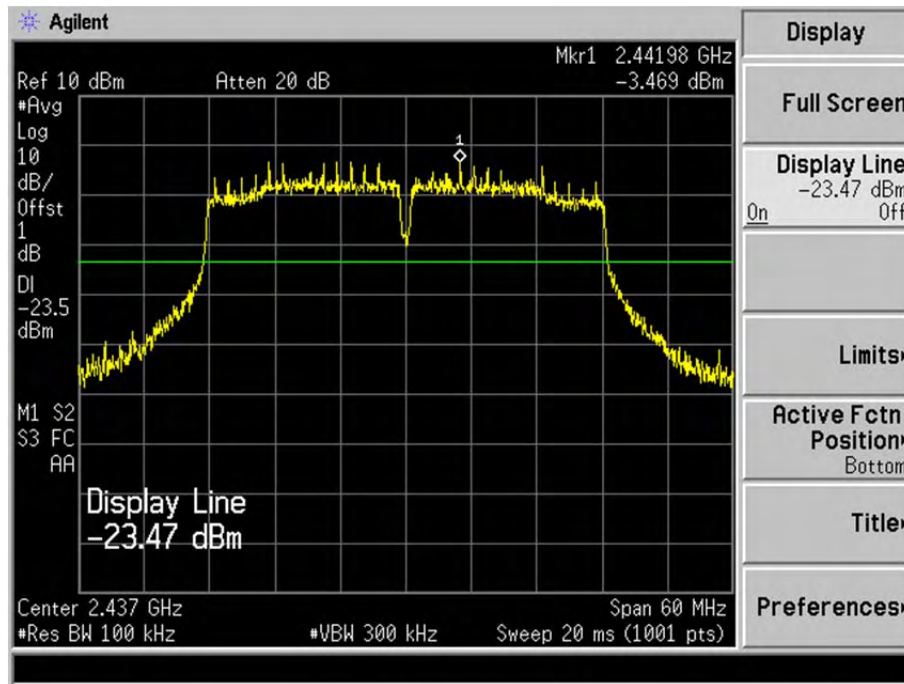
Highest



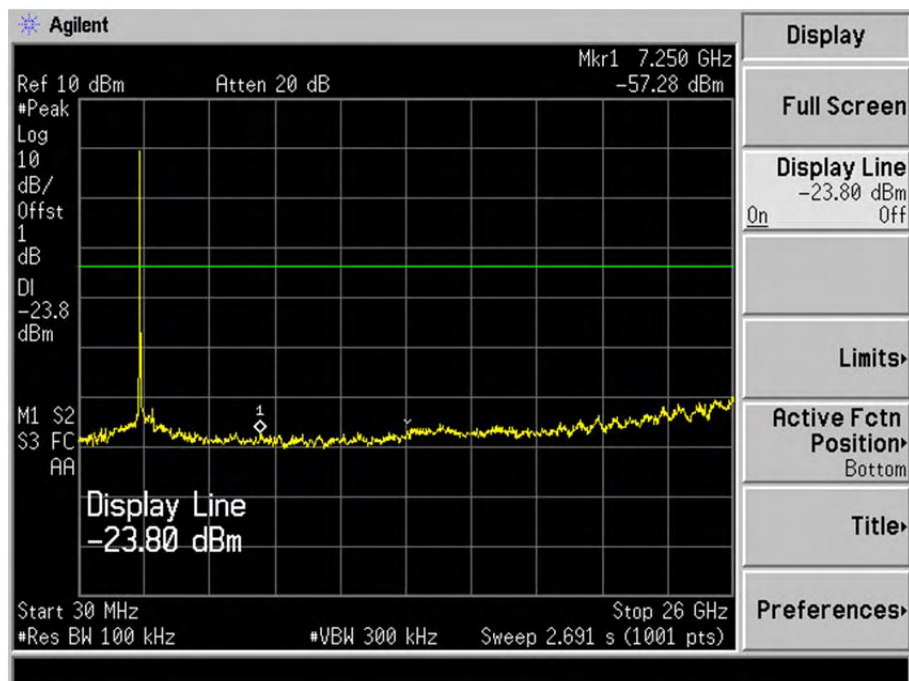
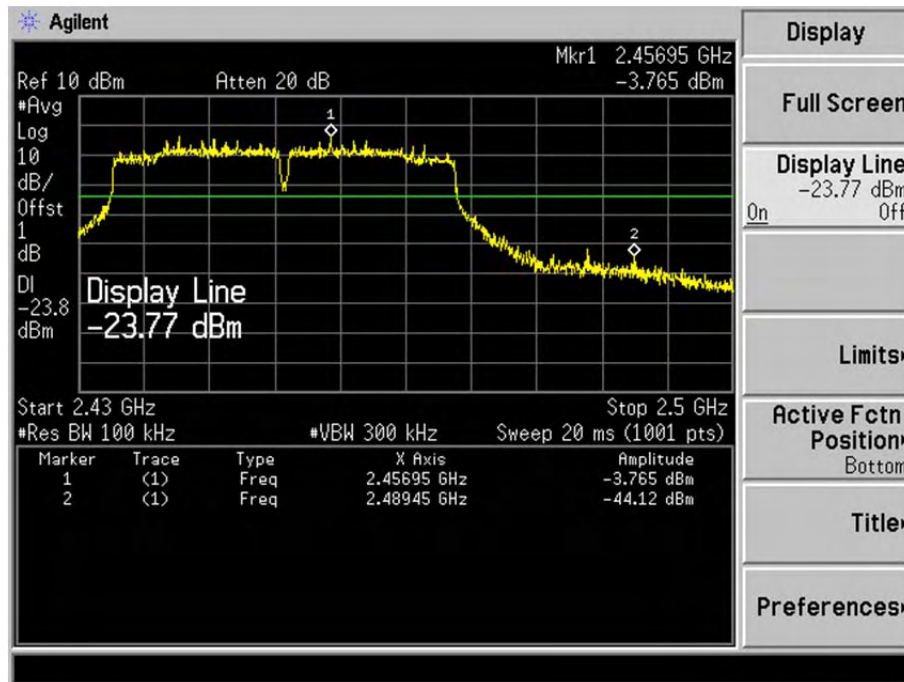
Spurious (Conducted)
802.11n-HT40-Lowest



Middle



Highest



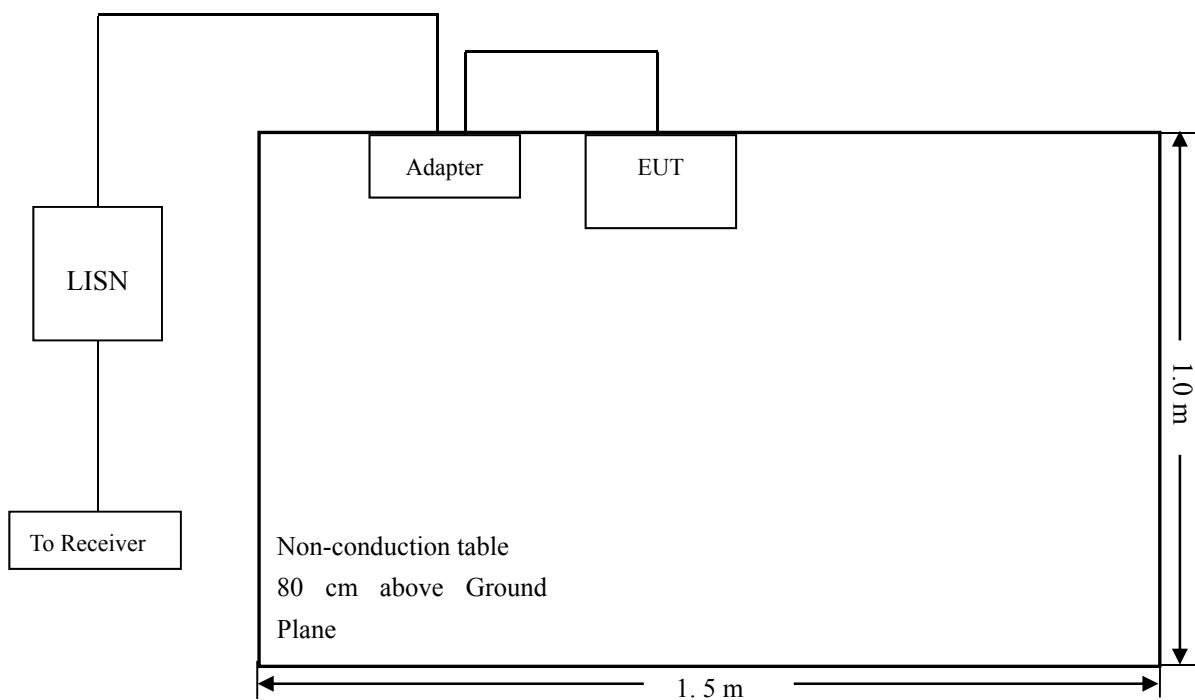
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

10.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

10.5 Summary of Test Results/Plots

According to the data in section 10.6, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

-5.79 dB at 0.2540 MHz in the **Line** mode, **AVG** detector, **WiFi Antenna A, 0.15-30MHz**

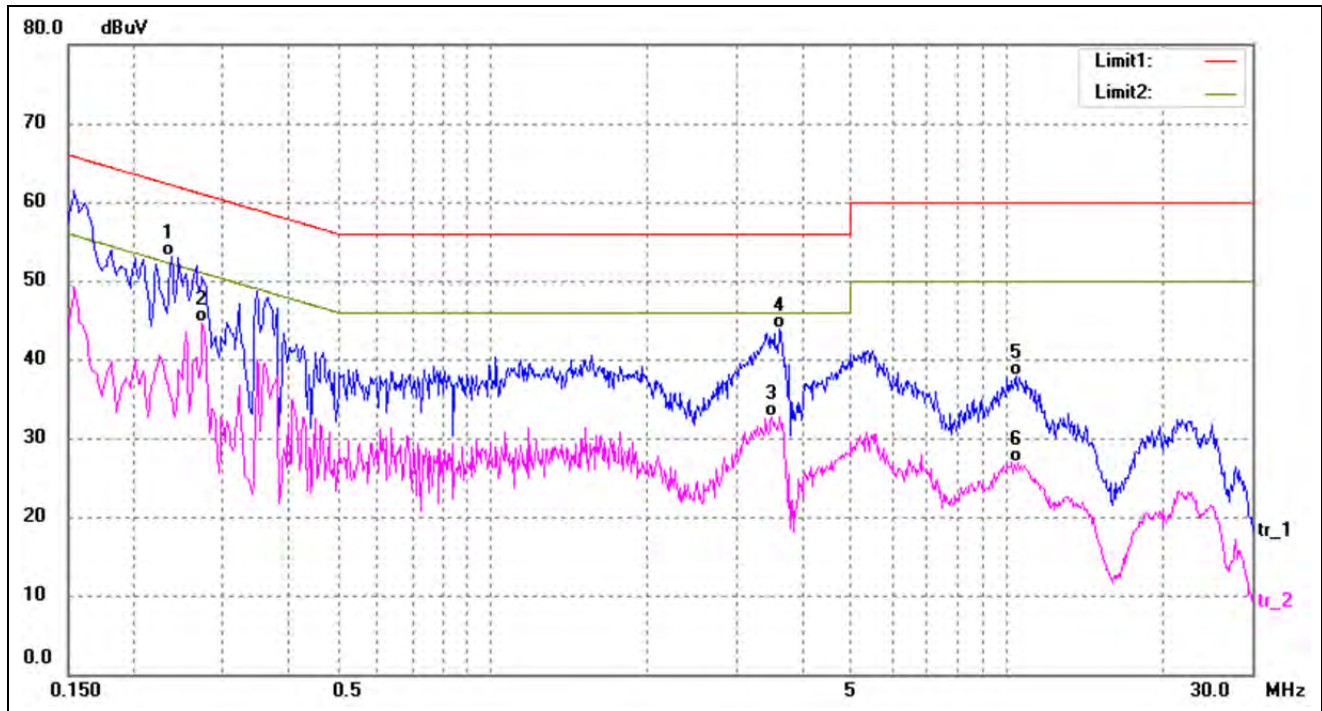
10.6 Conducted Emissions Test Data

WiFi Antenna A

Plot of Conducted Emissions Test Data

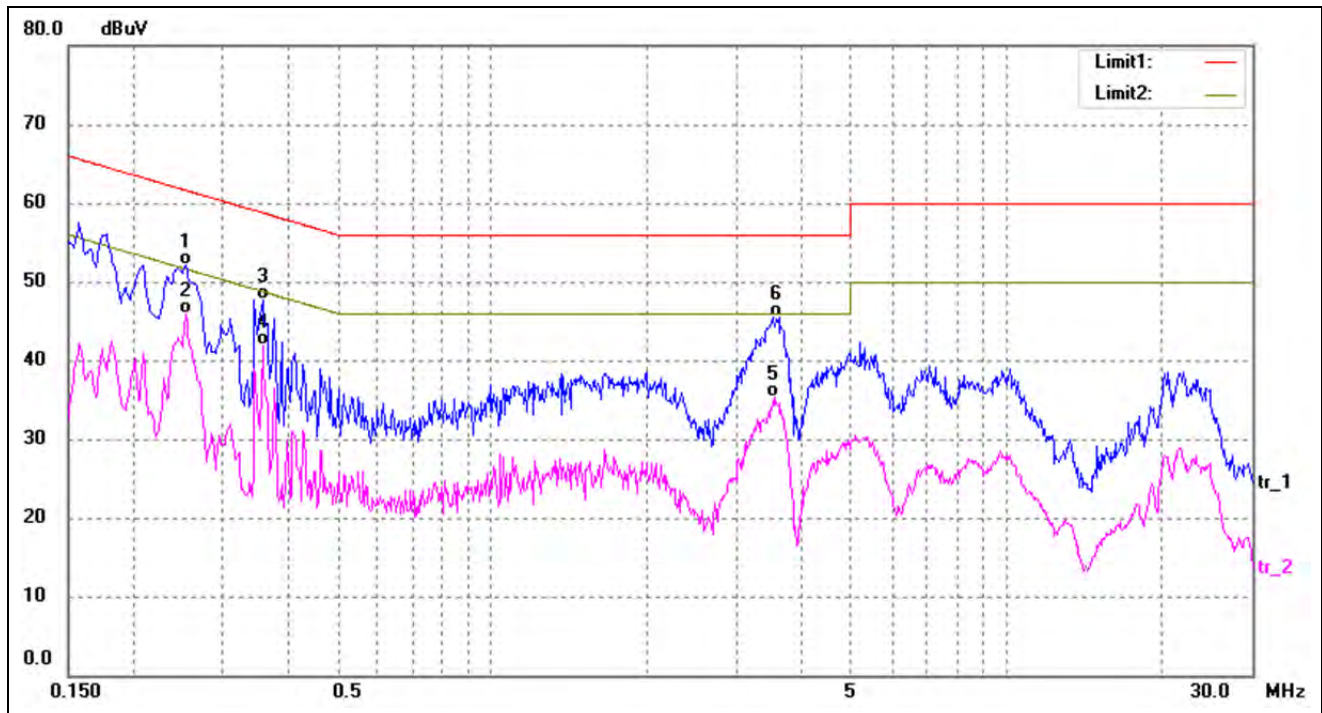
EUT: Notebook
Tested Model: NEBP12
Operating Condition: Transmitting(Wi-Fi)
Comment: AC 120V/60Hz ;Adapter DC 12V

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2380	43.32	9.80	53.12	62.17	-9.05	QP
2*	0.2740	34.91	9.80	44.71	51.00	-6.29	AVG
3	3.4940	23.05	9.70	32.75	46.00	-13.25	AVG
4	3.6260	34.23	9.69	43.92	56.00	-12.08	QP
5	10.4100	28.31	9.53	37.84	60.00	-22.16	QP
6	10.5500	17.43	9.53	26.96	50.00	-23.04	AVG

Test Specification: Line



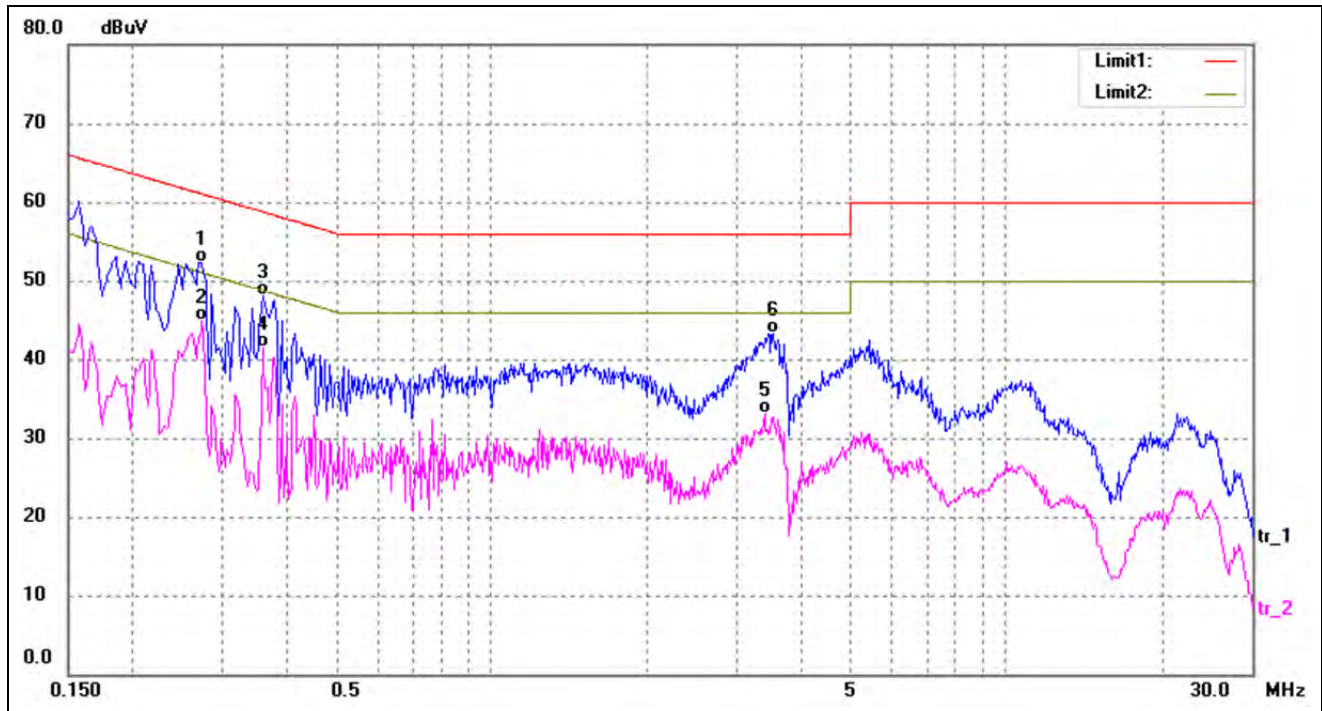
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2540	42.28	9.80	52.08	61.63	-9.55	QP
2*	0.2540	36.04	9.80	45.84	51.63	-5.79	AVG
3	0.3580	37.90	9.80	47.70	58.77	-11.07	QP
4	0.3580	32.15	9.80	41.95	48.77	-6.82	AVG
5	3.5460	25.70	9.70	35.40	46.00	-10.60	AVG
6	3.6140	35.82	9.69	45.51	56.00	-10.49	QP

WiFi Antenna B

Plot of Conducted Emissions Test Data

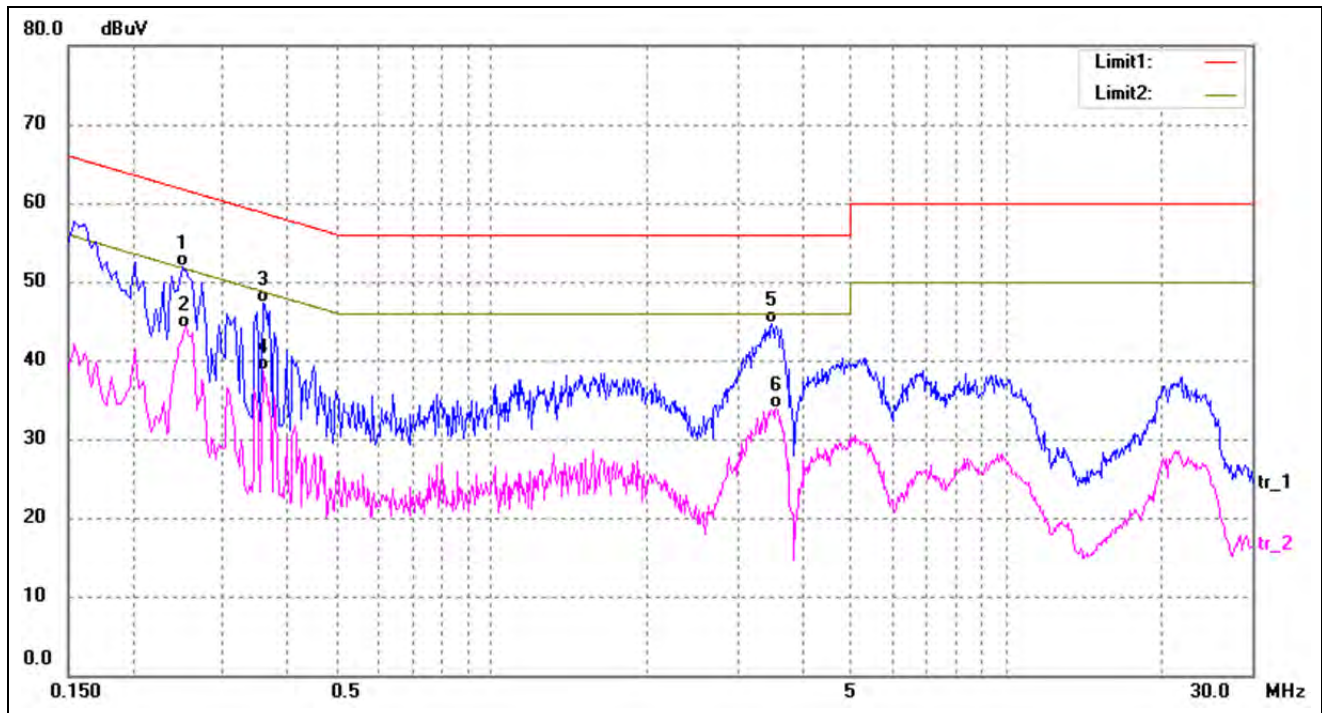
EUT: Notebook
Tested Model: NEBP12
Operating Condition: Transmitting(Wi-Fi)
Comment: AC 120V/60Hz ;Adapter DC 12V

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2700	42.58	9.80	52.38	61.12	-8.74	QP
2*	0.2740	35.02	9.80	44.82	50.99	-6.17	AVG
3	0.3580	38.29	9.80	48.09	58.77	-10.68	QP
4	0.3580	31.70	9.80	41.50	48.77	-7.27	AVG
5	3.3900	23.50	9.70	33.20	46.00	-12.80	AVG
6	3.5180	33.60	9.70	43.30	56.00	-12.70	QP

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2500	42.02	9.80	51.82	61.76	-9.94	QP
2*	0.2540	34.40	9.80	44.20	51.63	-7.43	AVG
3	0.3580	37.45	9.80	47.25	58.77	-11.52	QP
4	0.3580	28.82	9.80	38.62	48.77	-10.15	AVG
5	3.5060	34.96	9.70	44.66	56.00	-11.34	QP
6	3.5820	24.11	9.70	33.81	46.00	-12.19	AVG

***** END OF REPORT *****