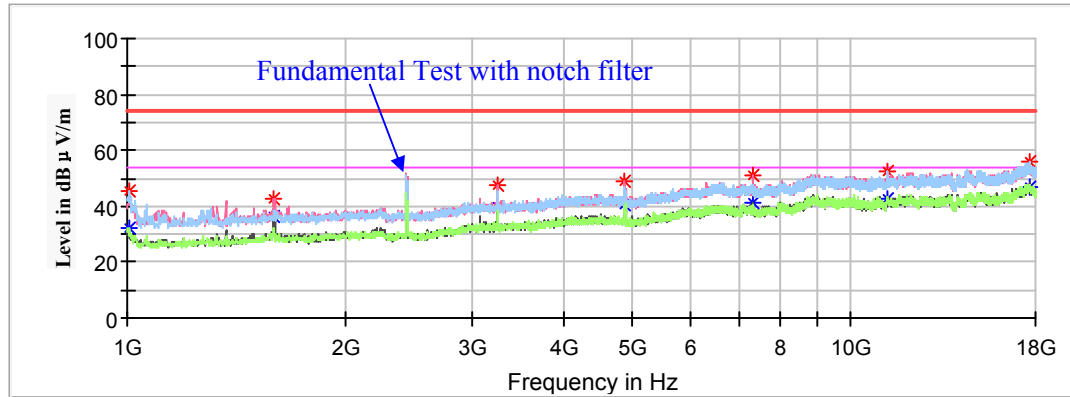


Middle Channel: 2437MHz

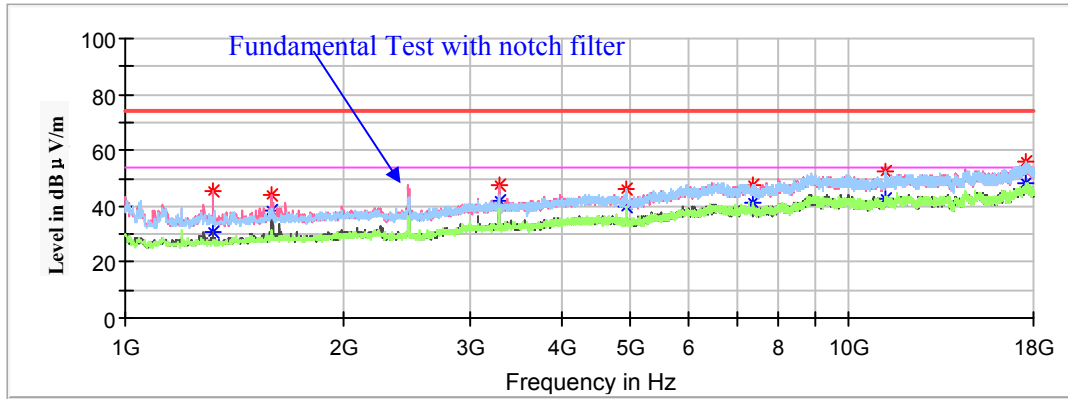
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1006.800000	---	32.21	200.0	H	211.0	-9.0	54.00	21.79
1006.800000	45.65	---	200.0	H	211.0	-9.0	74.00	28.35
1591.600000	---	36.42	150.0	V	275.0	-6.2	54.00	17.58
1591.600000	42.84	---	150.0	V	275.0	-6.2	74.00	31.16
3249.100000	---	40.13	150.0	V	314.0	-1.9	54.00	13.87
3249.100000	47.36	---	150.0	V	314.0	-1.9	74.00	26.64
4874.000000	48.63	---	200.0	V	244.0	0.5	74.00	25.37
4874.000000	---	40.77	200.0	V	244.0	0.5	54.00	13.23
7311.000000	---	41.43	150.0	V	199.0	5.1	54.00	12.57
7311.000000	51.18	---	150.0	V	199.0	5.1	74.00	22.82
11239.100000	52.27	---	200.0	H	287.0	10.1	74.00	21.73
11239.100000	---	42.31	200.0	H	287.0	10.1	54.00	11.69
17637.900000	---	46.53	150.0	V	55.0	14.1	54.00	7.47
17637.900000	55.81	---	150.0	V	55.0	14.1	74.00	18.19

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1323.000000	---	30.70	150.0	V	270.0	-7.4	54.00	23.30
1323.000000	45.79	---	150.0	V	270.0	-7.4	74.00	28.21
1591.600000	---	38.32	200.0	V	274.0	-6.2	54.00	15.68
1591.600000	43.88	---	200.0	V	274.0	-6.2	74.00	30.12
3281.400000	---	41.90	150.0	V	319.0	-1.9	54.00	12.10
3281.400000	47.30	---	150.0	V	319.0	-1.9	74.00	26.70
4924.000000	46.38	---	150.0	V	172.0	0.4	74.00	27.62
4924.000000	---	40.02	150.0	V	172.0	0.4	54.00	13.98
7386.000000	---	41.40	200.0	H	316.0	5.0	54.00	12.60
7386.000000	47.74	---	200.0	H	316.0	5.0	74.00	26.26
11205.100000	---	42.75	150.0	H	239.0	10.0	54.00	11.25
11205.100000	52.11	---	150.0	H	239.0	10.0	74.00	21.89
17542.700000	---	47.98	150.0	H	10.0	14.3	54.00	6.02
17542.700000	55.64	---	150.0	H	10.0	14.3	74.00	18.36

802.11n-HT20 Mode:

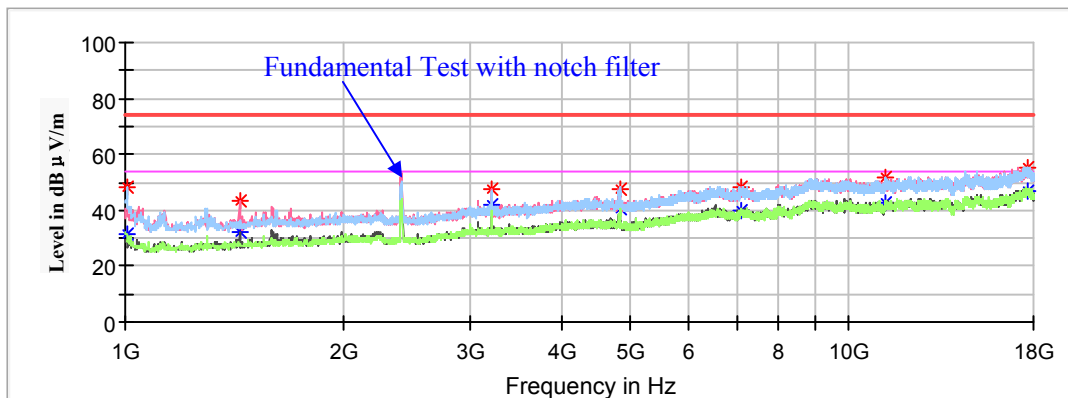
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

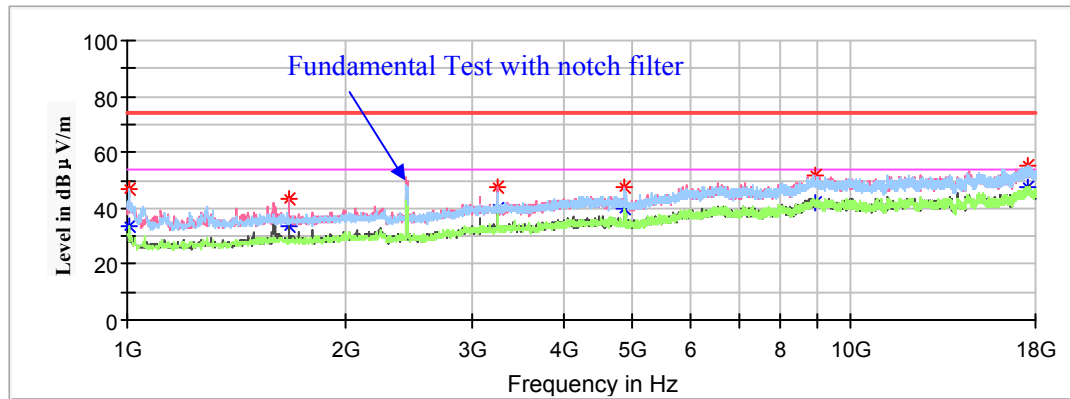
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1005.100000	---	31.50	200.0	H	219.0	-9.0	54.00	22.50
1005.100000	48.12	---	200.0	H	219.0	-9.0	74.00	25.88
1438.600000	---	31.95	200.0	V	282.0	-6.8	54.00	22.05
1438.600000	43.23	---	200.0	V	282.0	-6.8	74.00	30.77
3215.100000	---	42.17	150.0	V	316.0	-1.9	54.00	11.83
3215.100000	47.57	---	150.0	V	316.0	-1.9	74.00	26.43
4824.000000	47.80	---	150.0	V	252.0	0.6	74.00	26.20
4824.000000	---	40.56	150.0	V	252.0	0.6	54.00	13.44
7103.000000	---	40.19	200.0	V	323.0	5.5	54.00	13.81
7103.000000	48.30	---	200.0	V	323.0	5.5	74.00	25.70
11234.000000	---	42.89	200.0	V	165.0	10.1	54.00	11.11
11234.000000	51.64	---	200.0	V	165.0	10.1	74.00	22.36
17643.000000	---	46.60	200.0	V	63.0	14.1	54.00	7.40
17643.000000	55.36	---	200.0	V	63.0	14.1	74.00	18.64

Middle Channel: 2437MHz

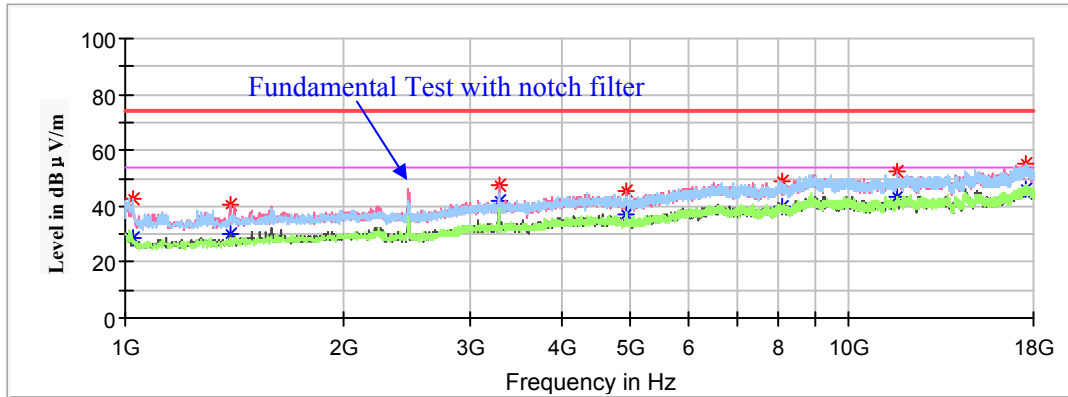
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1005.100000	---	33.23	150.0	H	116.0	-9.0	54.00	20.77
1005.100000	46.95	---	150.0	H	116.0	-9.0	74.00	27.05
1673.200000	---	33.37	200.0	V	297.0	-5.9	54.00	20.63
1673.200000	43.29	---	200.0	V	297.0	-5.9	74.00	30.71
3249.100000	---	40.17	200.0	V	205.0	-1.9	54.00	13.83
3249.100000	47.54	---	200.0	V	205.0	-1.9	74.00	26.46
4874.000000	---	39.69	150.0	V	232.0	0.5	54.00	14.31
4874.000000	47.29	---	150.0	V	143.0	0.5	74.00	26.71
8942.400000	---	41.81	150.0	V	194.0	9.3	54.00	12.19
8942.400000	51.80	---	150.0	V	194.0	9.3	74.00	22.20
17592.000000	---	47.26	150.0	V	194.0	14.2	54.00	6.74
17592.000000	54.93	---	150.0	V	194.0	14.2	74.00	19.07

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1025.500000	---	28.66	150.0	V	195.0	-8.9	54.00	25.34
1025.500000	42.53	---	150.0	V	195.0	-8.9	74.00	31.47
1394.400000	---	29.83	150.0	V	65.0	-7.0	54.00	24.17
1394.400000	40.25	---	150.0	V	65.0	-7.0	74.00	33.75
3281.400000	---	41.83	200.0	V	315.0	-1.9	54.00	12.17
3281.400000	47.52	---	200.0	V	315.0	-1.9	74.00	26.48
4924.000000	---	36.94	150.0	V	144.0	0.4	54.00	17.06
4924.000000	45.30	---	150.0	V	144.0	0.4	74.00	28.70
8104.300000	---	39.89	200.0	V	302.0	6.4	54.00	14.11
8104.300000	49.16	---	200.0	V	302.0	6.4	74.00	24.84
11660.700000	---	43.25	200.0	V	276.0	10.4	54.00	10.75
11660.700000	52.29	---	200.0	V	276.0	10.4	74.00	21.71
17558.000000	---	46.15	150.0	H	310.0	14.3	54.00	7.85
17558.000000	55.55	---	150.0	H	310.0	14.3	74.00	18.45

802.11n-HT40 Mode:

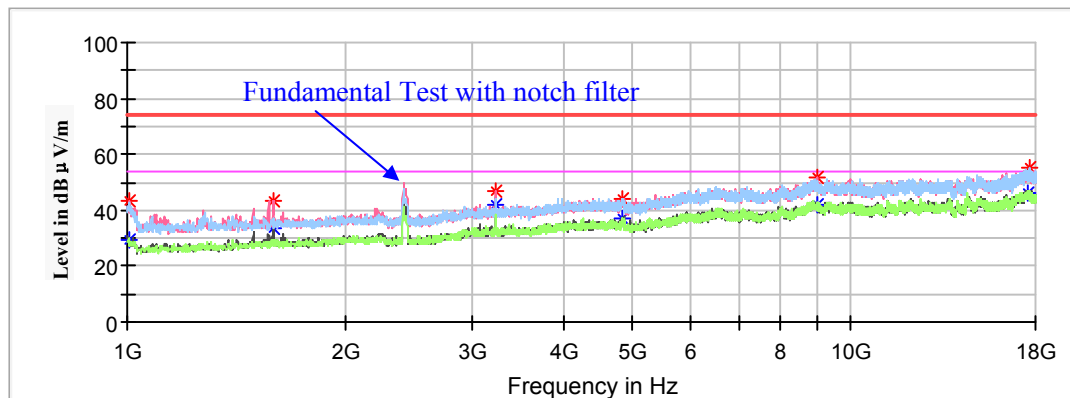
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

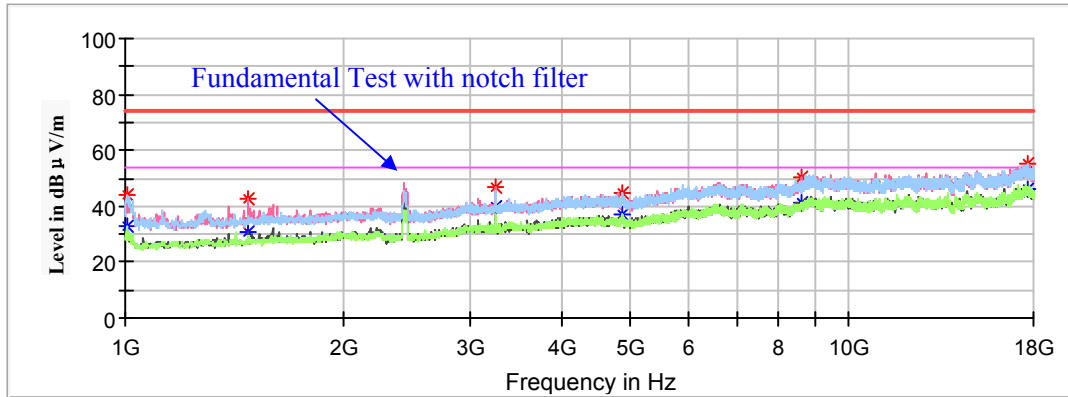
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1008.500000	---	29.45	150.0	V	162.0	-9.0	54.00	24.55
1008.500000	43.41	---	150.0	V	162.0	-9.0	74.00	30.59
1589.900000	43.33	---	150.0	V	251.0	-6.2	74.00	30.67
1589.900000	---	33.31	150.0	V	251.0	-6.2	54.00	20.69
3228.700000	46.95	---	150.0	V	315.0	-1.9	74.00	27.05
3228.700000	---	42.03	150.0	V	315.0	-1.9	54.00	11.97
4844.000000	44.38	---	150.0	H	75.0	0.6	74.00	29.62
4844.000000	---	37.00	150.0	H	75.0	0.6	54.00	17.00
8971.300000	---	42.04	150.0	V	136.0	9.4	54.00	11.96
8971.300000	51.44	---	150.0	V	136.0	9.4	74.00	22.56
17612.400000	---	46.49	150.0	H	88.0	14.2	54.00	7.51
17612.400000	55.59	---	150.0	H	88.0	14.2	74.00	18.41

Middle Channel: 2437MHz

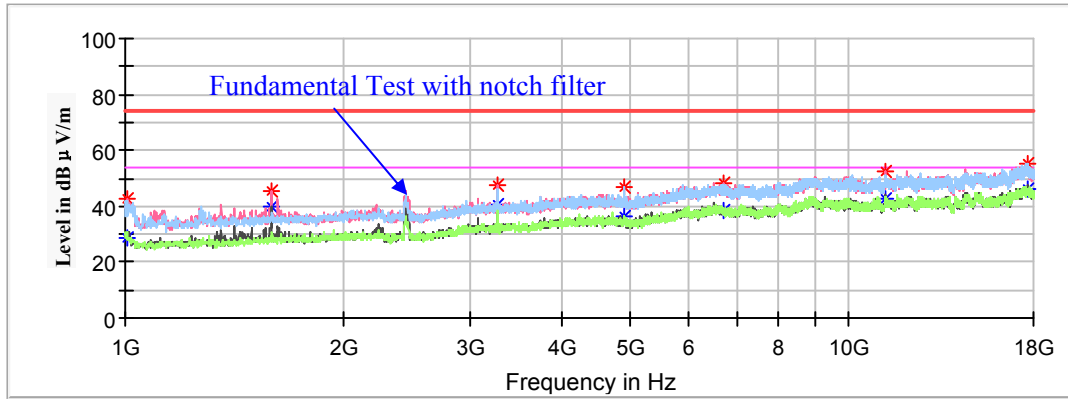
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1003.400000	---	32.52	200.0	H	110.0	-9.0	54.00	21.48
1003.400000	44.08	---	200.0	H	110.0	-9.0	74.00	29.92
1479.400000	---	30.61	150.0	V	260.0	-6.6	54.00	23.39
1479.400000	42.73	---	150.0	V	260.0	-6.6	74.00	31.27
3249.100000	---	39.57	200.0	V	298.0	-1.9	54.00	14.43
3249.100000	47.18	---	200.0	V	298.0	-1.9	74.00	26.82
4874.000000	---	36.72	150.0	H	0.0	0.5	54.00	17.28
4874.000000	44.77	---	150.0	H	0.0	0.5	74.00	29.23
8588.800000	---	40.93	200.0	V	181.0	7.8	54.00	13.07
8588.800000	50.63	---	200.0	V	181.0	7.8	74.00	23.37
17631.100000	---	46.46	150.0	H	278.0	14.1	54.00	7.54
17631.100000	54.95	---	150.0	H	278.0	14.1	74.00	19.05

High Channel: 2452MHz

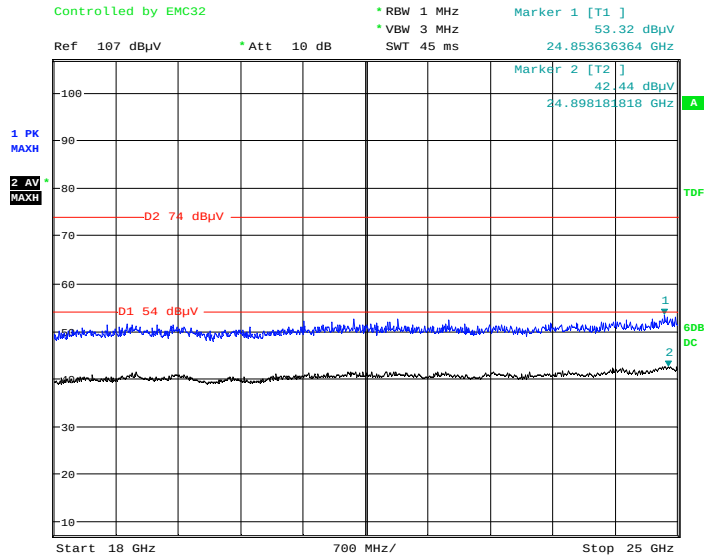
Full Spectrum



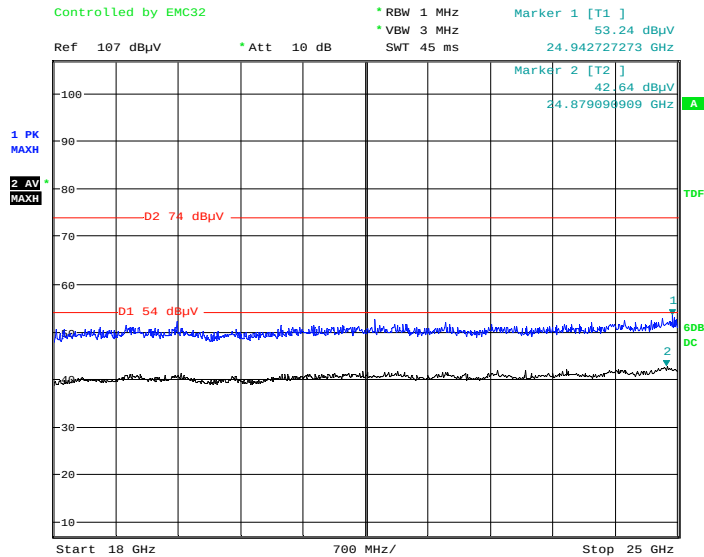
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1008.500000	---	28.39	150.0	V	160.0	-9.0	54.00	25.61
1008.500000	42.54	---	150.0	V	160.0	-9.0	74.00	31.46
1591.600000	---	39.67	200.0	V	249.0	-6.2	54.00	14.33
1591.600000	45.30	---	200.0	V	249.0	-6.2	74.00	28.70
3267.800000	---	40.79	150.0	V	313.0	-1.9	54.00	13.21
3267.800000	47.46	---	150.0	V	313.0	-1.9	74.00	26.54
4904.000000	---	36.28	200.0	H	101.0	0.4	54.00	17.72
4904.000000	46.82	---	200.0	H	101.0	0.4	74.00	27.18
6698.400000	---	38.73	150.0	V	147.0	5.5	54.00	15.27
6698.400000	47.94	---	150.0	V	147.0	5.5	74.00	26.06
11262.900000	---	42.98	150.0	V	147.0	10.2	54.00	11.02
11262.900000	52.49	---	150.0	V	147.0	10.2	74.00	21.51
17648.100000	---	46.43	150.0	H	345.0	14.1	54.00	7.57
17648.100000	55.44	---	150.0	H	345.0	14.1	74.00	18.56

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal

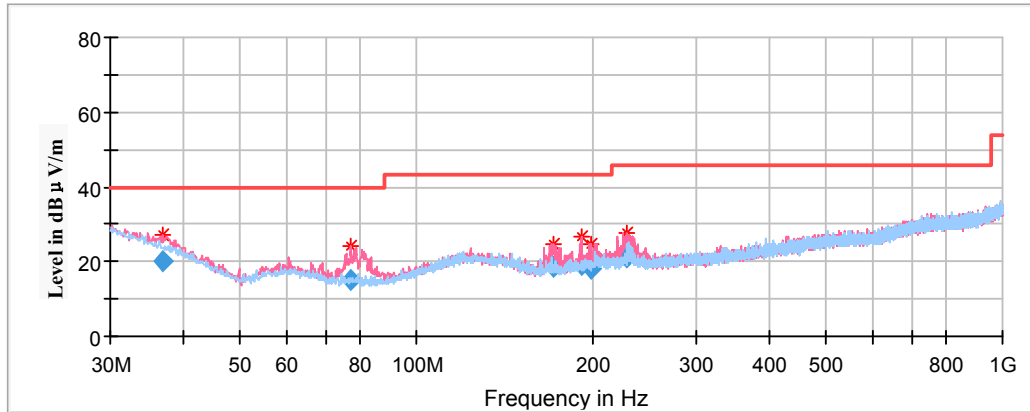
Date: 19.JUL.2021 23:31:47

Vertical

Date: 19.JUL.2021 23:37:59

Series Model: 9290030095**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
36.791500	20.29	100.0	V	252.0	-8.3	40.00	19.71
77.289300	15.06	200.0	V	135.0	-17.1	40.00	24.94
171.747550	18.59	100.0	V	291.0	-13.8	43.50	24.91
191.381250	19.15	100.0	V	61.0	-12.5	43.50	24.35
197.937500	18.08	100.0	V	66.0	-12.2	43.50	25.42
227.759800	20.92	200.0	V	58.0	-12.0	46.00	25.08

1GHz-18GHz:**802.11b Mode:**

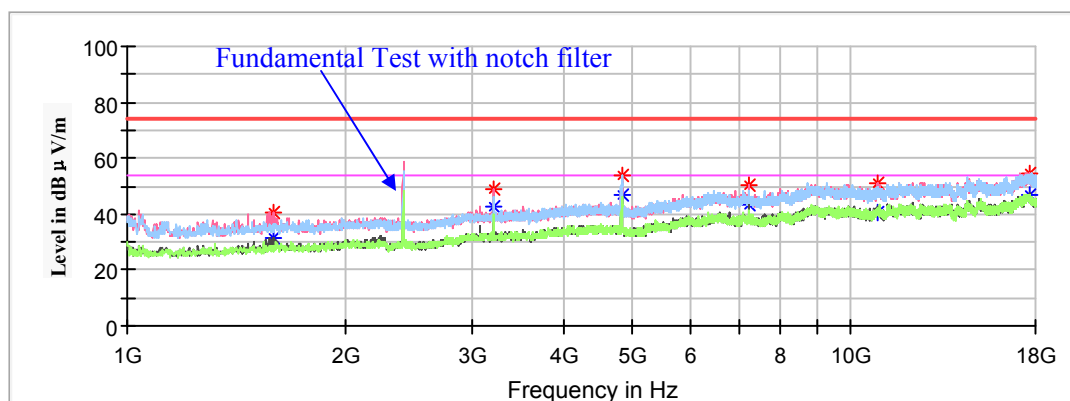
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V/m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Low Channel: 2412MHz

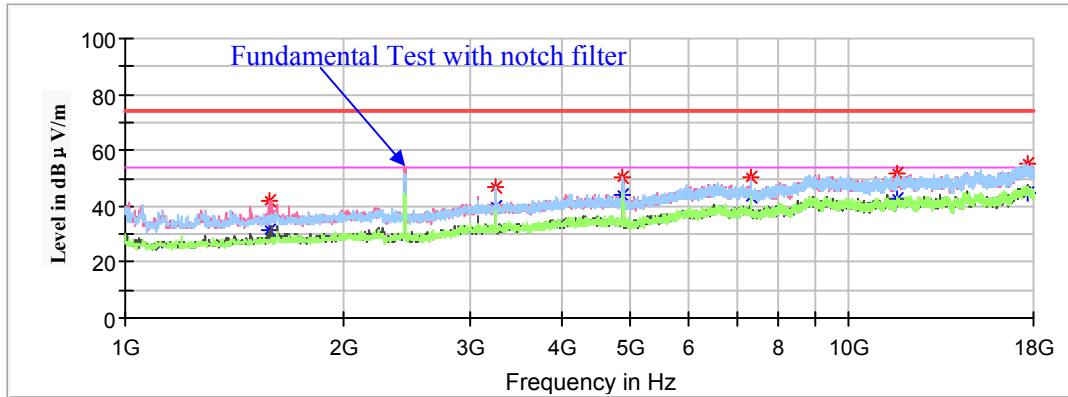
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1595.000000	40.32	---	150.0	V	237.0	-6.2	74.00	33.68
1595.000000	---	31.43	150.0	V	237.0	-6.2	54.00	22.57
3215.100000	---	42.94	200.0	V	326.0	-1.9	54.00	11.06
3215.100000	49.15	---	200.0	V	326.0	-1.9	74.00	24.85
4824.000000	53.55	---	150.0	H	256.0	0.6	74.00	20.45
4824.000000	---	47.03	150.0	H	256.0	0.6	54.00	6.97
7236.000000	50.21	---	150.0	V	55.0	5.3	74.00	23.79
7236.000000	---	43.10	150.0	V	55.0	5.3	54.00	10.90
10899.100000	51.04	---	200.0	V	173.0	9.4	74.00	22.96
10899.100000	---	40.69	200.0	V	173.0	9.4	54.00	13.31
17632.800000	---	46.64	150.0	V	0.0	14.1	54.00	7.36
17632.800000	54.88	---	150.0	V	0.0	14.1	74.00	19.12

Middle Channel: 2437MHz

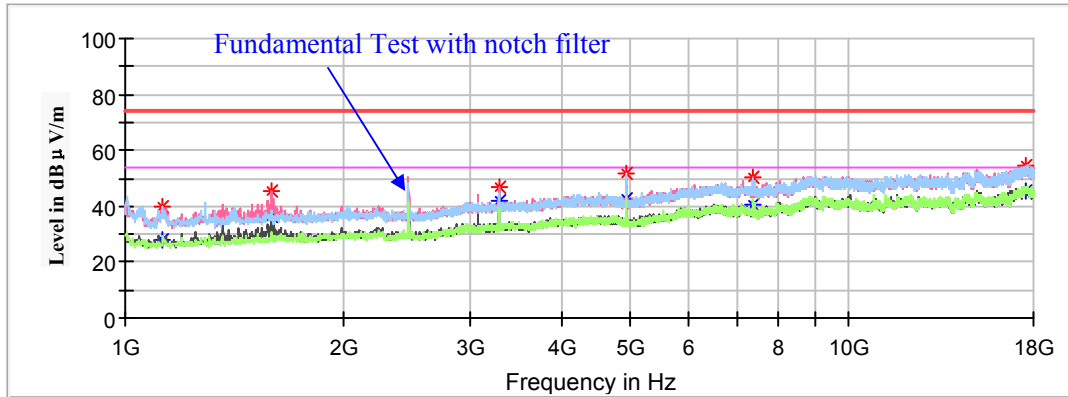
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1578.000000	42.27	---	200.0	V	262.0	-6.2	74.00	31.73
1578.000000	---	31.26	200.0	V	262.0	-6.2	54.00	22.74
3249.100000	---	39.87	150.0	V	224.0	-1.9	54.00	14.13
3249.100000	47.14	---	150.0	V	224.0	-1.9	74.00	26.86
4874.000000	50.52	---	150.0	V	249.0	0.5	74.00	23.48
4874.000000	---	44.40	150.0	V	249.0	0.5	54.00	9.60
7311.000000	---	43.26	200.0	V	236.0	5.1	54.00	10.74
7311.000000	50.51	---	200.0	V	236.0	5.1	74.00	23.49
11653.900000	51.45	---	150.0	V	54.0	10.4	74.00	22.55
11653.900000	---	42.78	150.0	V	54.0	10.4	54.00	11.22
17641.300000	---	44.70	200.0	V	0.0	14.1	54.00	9.30
17641.300000	55.50	---	200.0	V	0.0	14.1	74.00	18.50

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1124.100000	---	27.91	150.0	V	248.0	-8.4	54.00	26.09
1124.100000	40.18	---	150.0	V	248.0	-8.4	74.00	33.82
1591.600000	---	36.50	150.0	V	248.0	-6.2	54.00	17.50
1591.600000	45.61	---	150.0	V	248.0	-6.2	74.00	28.39
3281.400000	---	41.97	150.0	V	312.0	-1.9	54.00	12.03
3281.400000	47.10	---	150.0	V	312.0	-1.9	74.00	26.90
4924.000000	---	42.34	200.0	H	89.0	0.4	54.00	11.66
4924.000000	51.96	---	200.0	H	89.0	0.4	74.00	22.04
7386.000000	---	40.65	150.0	V	337.0	5.0	54.00	13.35
7386.000000	50.60	---	150.0	V	337.0	5.0	74.00	23.40
17541.000000	---	45.68	200.0	V	128.0	14.3	54.00	8.32
17541.000000	54.89	---	200.0	V	128.0	14.3	74.00	19.11

802.11g Mode:

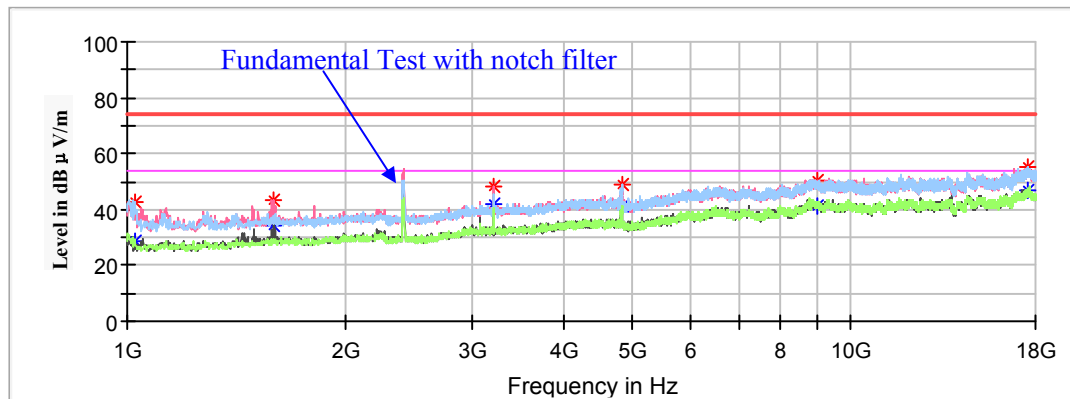
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

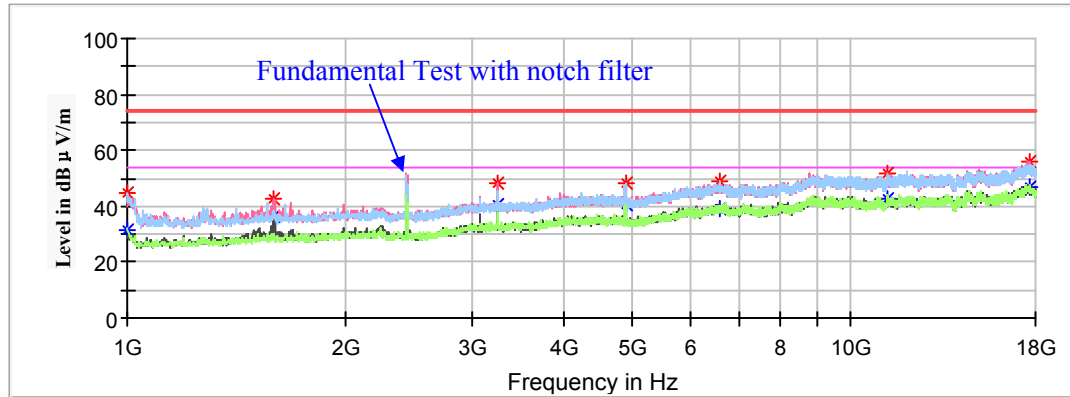
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1023.800000	---	28.83	150.0	H	110.0	-8.9	54.00	25.17
1023.800000	42.68	---	150.0	H	110.0	-8.9	74.00	31.32
1595.000000	---	34.20	150.0	V	263.0	-6.2	54.00	19.80
1595.000000	43.05	---	150.0	V	263.0	-6.2	74.00	30.95
3215.100000	---	42.21	200.0	V	292.0	-1.9	54.00	11.79
3215.100000	48.41	---	200.0	V	292.0	-1.9	74.00	25.59
4824.000000	---	41.32	200.0	H	282.0	0.6	54.00	12.68
4824.000000	48.71	---	200.0	H	282.0	0.6	74.00	25.29
8969.600000	---	40.99	150.0	V	237.0	9.4	54.00	13.01
8969.600000	50.44	---	150.0	V	237.0	9.4	74.00	23.56
17522.300000	---	46.68	150.0	H	34.0	14.4	54.00	7.32
17522.300000	55.40	---	150.0	H	34.0	14.4	74.00	18.60

Middle Channel: 2437MHz

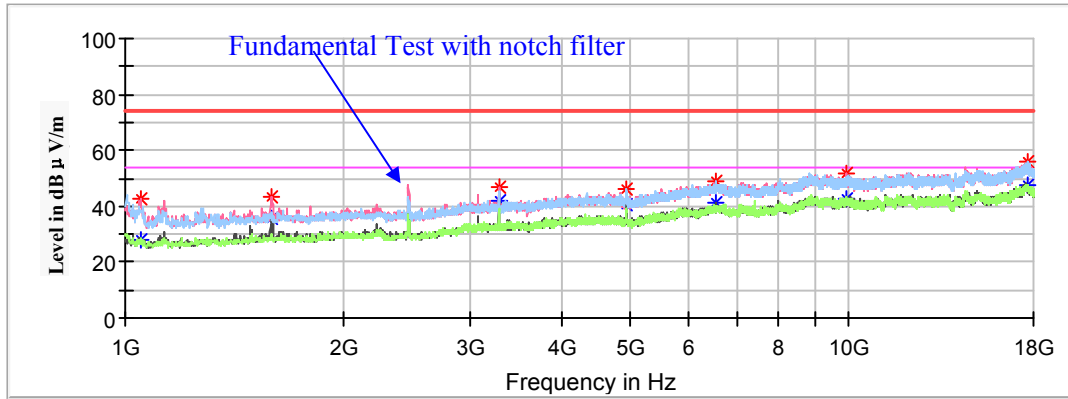
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1001.700000	---	31.37	200.0	H	206.0	-9.0	54.00	22.63
1001.700000	45.06	---	200.0	H	206.0	-9.0	74.00	28.94
1596.700000	---	36.19	150.0	V	278.0	-6.2	54.00	17.81
1596.700000	42.71	---	150.0	V	278.0	-6.2	74.00	31.29
3249.100000	---	40.58	150.0	V	316.0	-1.9	54.00	13.42
3249.100000	48.17	---	150.0	V	316.0	-1.9	74.00	25.83
4874.000000	---	40.75	200.0	H	103.0	0.5	54.00	13.25
4874.000000	48.18	---	200.0	H	103.0	0.5	74.00	25.82
6574.300000	---	39.06	200.0	H	359.0	5.5	54.00	14.94
6574.300000	48.98	---	200.0	H	359.0	5.5	74.00	25.02
11228.900000	---	42.34	200.0	V	111.0	10.1	54.00	11.66
11228.900000	51.83	---	200.0	V	111.0	10.1	74.00	22.17
17678.700000	---	46.89	200.0	V	332.0	14.0	54.00	7.11
17678.700000	55.72	---	200.0	V	332.0	14.0	74.00	18.28

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1051.000000	---	28.09	200.0	V	200.0	-8.8	54.00	25.91
1051.000000	42.95	---	200.0	V	200.0	-8.8	74.00	31.05
1593.300000	---	35.43	150.0	V	284.0	-6.2	54.00	18.57
1593.300000	43.70	---	150.0	V	284.0	-6.2	74.00	30.30
3281.400000	---	41.71	150.0	V	309.0	-1.9	54.00	12.29
3281.400000	46.96	---	150.0	V	309.0	-1.9	74.00	27.04
4924.000000	---	40.28	200.0	V	72.0	0.4	54.00	13.72
4924.000000	46.25	---	200.0	V	72.0	0.4	74.00	27.75
6565.800000	---	40.97	200.0	V	76.0	5.4	54.00	13.03
6565.800000	48.71	---	200.0	V	76.0	5.4	74.00	25.29
9947.100000	---	42.90	150.0	V	258.0	8.8	54.00	11.10
9947.100000	51.71	---	150.0	V	258.0	8.8	74.00	22.29
17663.400000	---	47.28	150.0	H	115.0	14.1	54.00	6.72
17663.400000	55.87	---	150.0	H	115.0	14.1	74.00	18.13

802.11n-HT20 Mode:

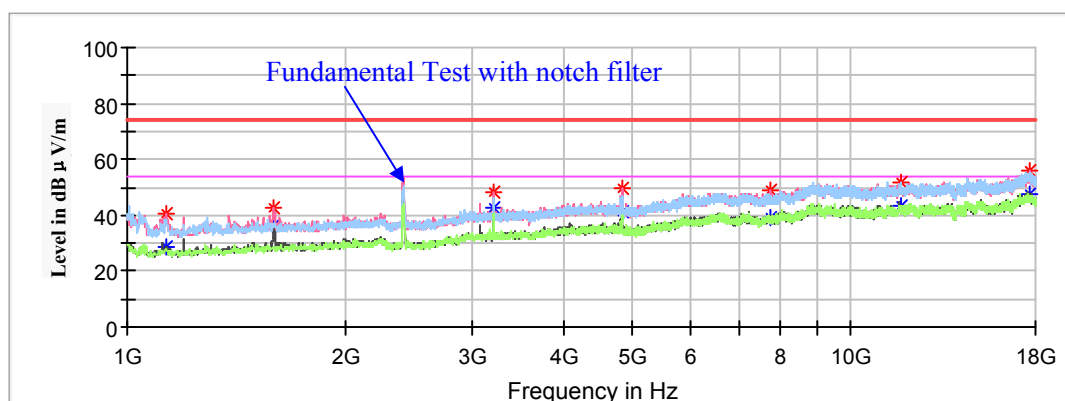
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

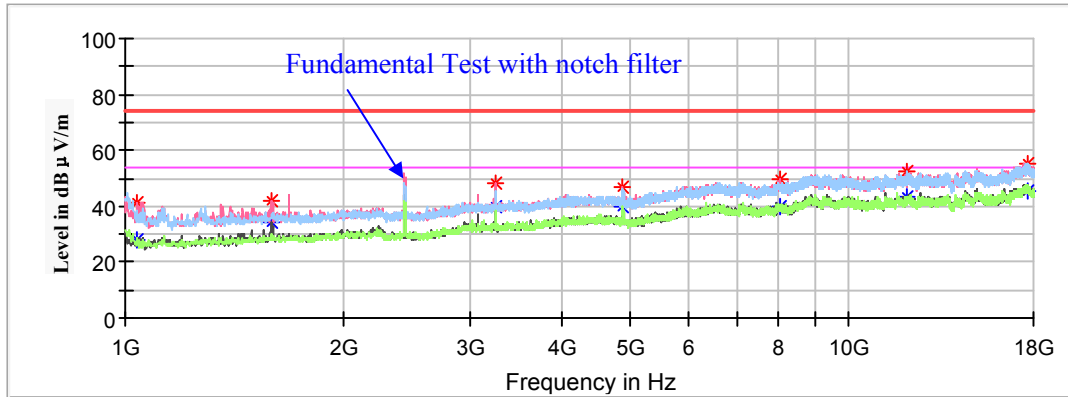
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1130.900000	---	28.45	200.0	V	128.0	-8.4	54.00	25.55
1130.900000	40.81	---	200.0	V	128.0	-8.4	74.00	33.19
1595.000000	---	36.27	150.0	V	288.0	-6.2	54.00	17.73
1595.000000	42.51	---	150.0	V	288.0	-6.2	74.00	31.49
3215.100000	---	42.52	200.0	V	297.0	-1.9	54.00	11.48
3215.100000	48.15	---	200.0	V	297.0	-1.9	74.00	25.85
4824.000000	---	40.91	200.0	V	218.0	0.6	54.00	13.09
4824.000000	49.88	---	200.0	V	218.0	0.6	74.00	24.12
7736.000000	---	38.91	150.0	V	339.0	5.4	54.00	15.09
7736.000000	48.87	---	150.0	V	339.0	5.4	74.00	25.13
11740.600000	---	43.27	200.0	H	90.0	10.3	54.00	10.73
11740.600000	51.64	---	200.0	H	90.0	10.3	74.00	22.36
17682.100000	---	47.81	150.0	V	350.0	14.0	54.00	6.19
17682.100000	55.64	---	150.0	V	350.0	14.0	74.00	18.36

Middle Channel: 2437MHz

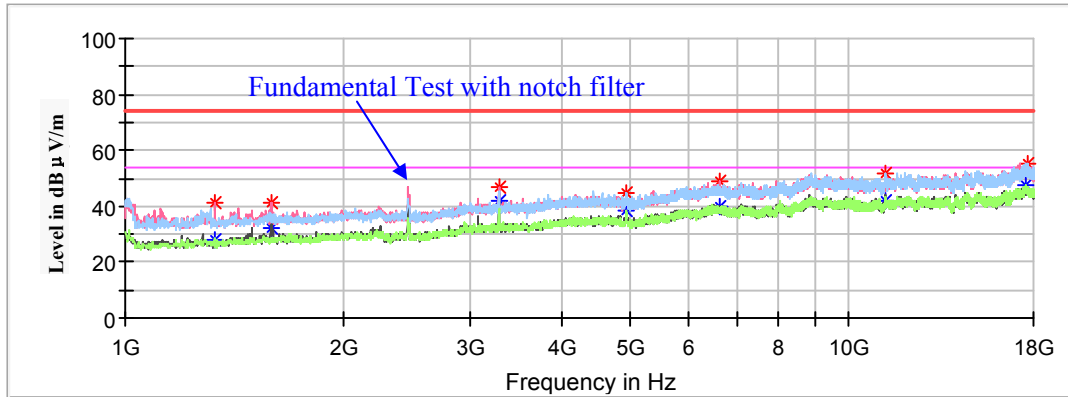
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1039.100000	---	28.26	200.0	V	187.0	-8.8	54.00	25.74
1039.100000	41.42	---	200.0	V	187.0	-8.8	74.00	32.58
1593.300000	---	34.04	150.0	V	250.0	-6.2	54.00	19.96
1593.300000	42.25	---	150.0	V	250.0	-6.2	74.00	31.75
3249.100000	---	40.10	200.0	V	200.0	-1.9	54.00	13.90
3249.100000	47.98	---	200.0	V	200.0	-1.9	74.00	26.02
4874.000000	46.61	---	200.0	V	239.0	0.5	74.00	27.39
4874.000000	---	40.12	200.0	V	239.0	0.5	54.00	13.88
8051.600000	---	39.59	150.0	H	22.0	6.2	54.00	14.41
8051.600000	49.54	---	150.0	H	22.0	6.2	74.00	24.46
12056.800000	---	43.02	200.0	H	296.0	10.1	54.00	10.98
12056.800000	52.40	---	200.0	H	296.0	10.1	74.00	21.60
17627.700000	---	45.55	150.0	H	86.0	14.1	54.00	8.45
17627.700000	55.59	---	150.0	H	86.0	14.1	74.00	18.41

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1331.500000	---	28.17	200.0	V	36.0	-7.4	54.00	25.83
1331.500000	41.13	---	200.0	V	36.0	-7.4	74.00	32.87
1588.200000	---	31.84	150.0	V	258.0	-6.2	54.00	22.16
1588.200000	41.53	---	150.0	V	258.0	-6.2	74.00	32.47
3281.400000	---	41.93	150.0	V	296.0	-1.9	54.00	12.07
3281.400000	46.93	---	150.0	V	296.0	-1.9	74.00	27.07
4924.000000	---	38.38	150.0	H	97.0	0.4	54.00	15.62
4924.000000	44.76	---	150.0	H	97.0	0.4	74.00	29.24
6630.400000	---	39.58	200.0	V	36.0	5.5	54.00	14.42
6630.400000	48.88	---	200.0	V	36.0	5.5	74.00	25.12
11240.800000	---	42.04	150.0	H	0.0	10.1	54.00	11.96
11240.800000	51.73	---	150.0	H	0.0	10.1	74.00	22.27
17568.200000	---	47.50	200.0	H	270.0	14.3	54.00	6.50
17668.500000	55.23	---	200.0	H	270.0	14.3	74.00	18.77

802.11n-HT40 Mode:

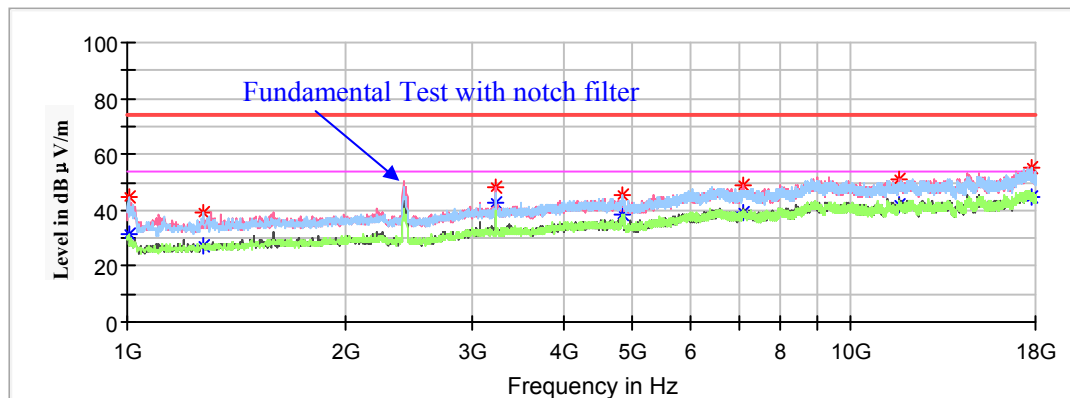
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

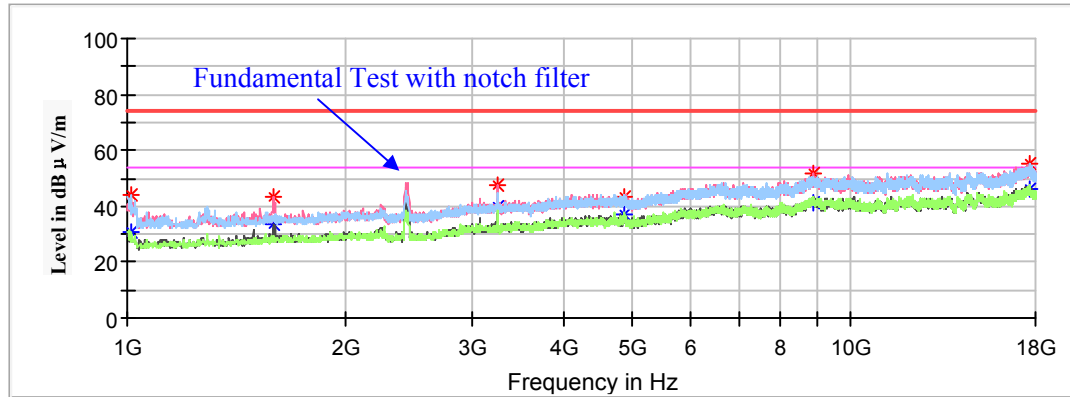
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1003.400000	44.52	---	150.0	H	213.0	-9.0	74.00	29.48
1003.400000	---	31.41	150.0	H	213.0	-9.0	54.00	22.59
1272.000000	39.07	---	150.0	H	11.0	-7.7	74.00	34.93
1272.000000	---	27.29	150.0	H	11.0	-7.7	54.00	26.71
3228.700000	48.09	---	200.0	V	317.0	-1.9	74.00	25.91
3228.700000	---	42.53	200.0	V	317.0	-1.9	54.00	11.47
4844.000000	45.50	---	150.0	H	252.0	0.6	74.00	28.50
4844.000000	---	38.59	150.0	H	252.0	0.6	54.00	15.41
7114.900000	48.71	---	200.0	V	149.0	5.5	74.00	25.29
7114.900000	---	39.00	200.0	V	149.0	5.5	54.00	15.00
11648.800000	51.06	---	150.0	V	8.0	10.4	74.00	22.94
11648.800000	---	42.12	150.0	V	8.0	10.4	54.00	11.88
17777.300000	---	44.65	200.0	H	226.0	13.8	54.00	9.35
17777.300000	54.99	---	200.0	H	226.0	13.8	74.00	19.01

Middle Channel: 2437MHz

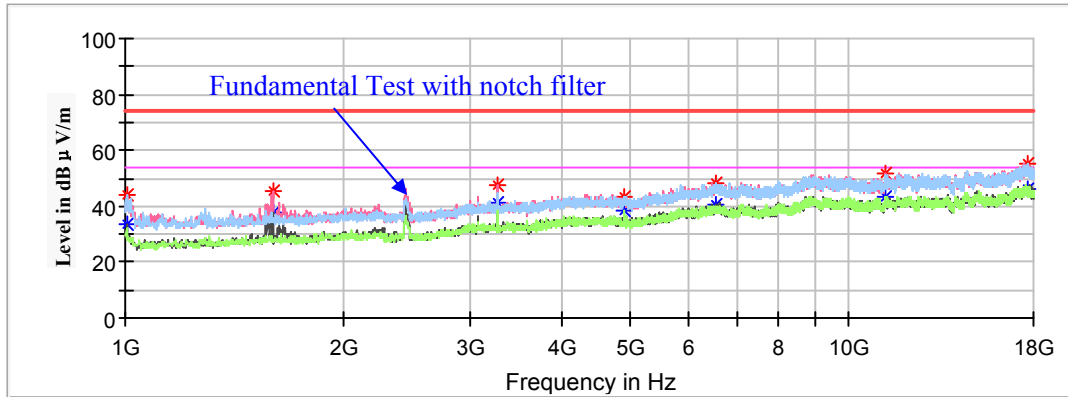
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1010.200000	---	30.52	150.0	H	122.0	-9.0	54.00	23.48
1010.200000	44.34	---	150.0	H	122.0	-9.0	74.00	29.66
1593.300000	43.05	---	150.0	V	272.0	-6.2	74.00	30.95
1593.300000	---	33.86	150.0	V	247.0	-6.2	54.00	20.14
3249.100000	---	39.93	200.0	V	310.0	-1.9	54.00	14.07
3249.100000	47.61	---	200.0	V	310.0	-1.9	74.00	26.39
4874.000000	---	37.35	150.0	H	310.0	0.5	54.00	16.65
4874.000000	43.05	---	150.0	H	310.0	0.5	74.00	30.95
8899.900000	---	41.45	200.0	H	122.0	9.1	54.00	12.55
8899.900000	51.64	---	200.0	H	122.0	9.1	74.00	22.36
17629.400000	---	46.00	200.0	H	0.0	14.1	54.00	8.00
17629.400000	54.91	---	200.0	H	0.0	14.1	74.00	19.09

High Channel: 2452MHz

Full Spectrum

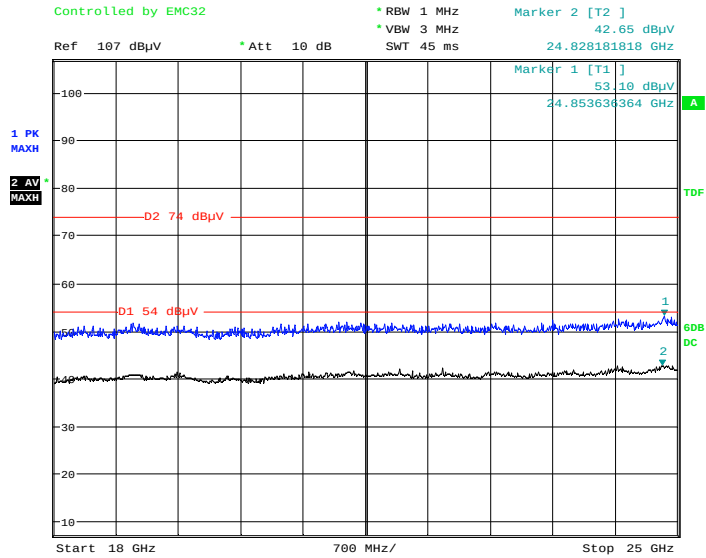


Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1003.400000	---	33.27	150.0	V	156.0	-9.0	54.00	20.73
1003.400000	44.25	---	150.0	V	156.0	-9.0	74.00	29.75
1598.400000	---	38.11	200.0	V	276.0	-6.2	54.00	15.89
1598.400000	45.50	---	200.0	V	276.0	-6.2	74.00	28.50
3267.800000	---	41.53	150.0	V	314.0	-1.9	54.00	12.47
3267.800000	47.64	---	150.0	V	314.0	-1.9	74.00	26.36
4904.000000	---	38.25	150.0	H	11.0	0.4	54.00	15.75
4904.000000	43.11	---	150.0	H	11.0	0.4	74.00	30.89
6536.900000	48.35	---	200.0	H	11.0	5.4	74.00	25.65
6536.900000	---	40.54	200.0	H	11.0	5.4	54.00	13.46
11203.400000	---	43.55	200.0	V	250.0	10.0	54.00	10.45
11203.400000	51.80	---	200.0	V	250.0	10.0	74.00	22.20
17651.500000	---	46.45	200.0	H	62.0	14.1	54.00	7.55
17651.500000	55.05	---	200.0	H	62.0	14.1	74.00	18.95

18GHz-25GHz:

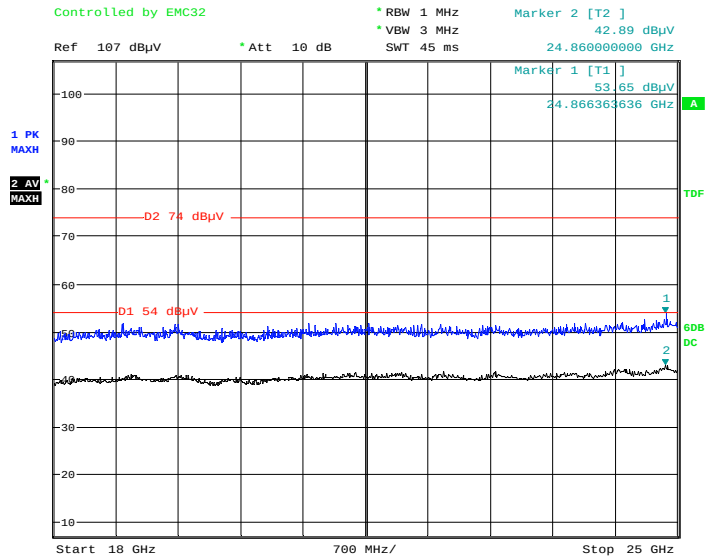
Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal



Date: 19.JUL.2021 23:44:54

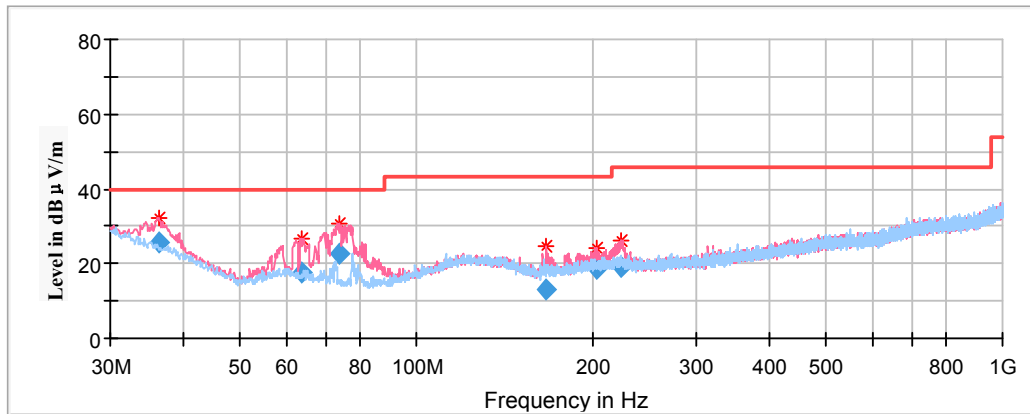
Vertical



Date: 19.JUL.2021 23:52:03

Series Model: 9290030097**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
36.306900	25.46	100.0	V	90.0	-7.4	40.00	14.54
63.704900	17.79	100.0	V	188.0	-15.2	40.00	22.21
73.777000	22.49	100.0	V	96.0	-17.0	40.00	17.51
166.895000	12.93	200.0	V	204.0	-13.9	43.50	30.57
203.381500	18.66	200.0	V	53.0	-12.0	43.50	24.84
222.771000	19.33	200.0	V	25.0	-12.0	46.00	26.67

1GHz-18GHz:**802.11b Mode:**

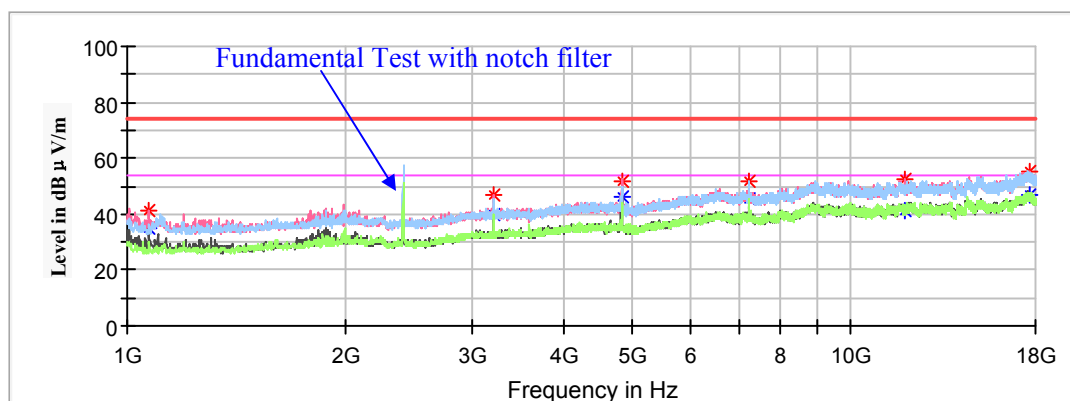
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V/m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Low Channel: 2412MHz

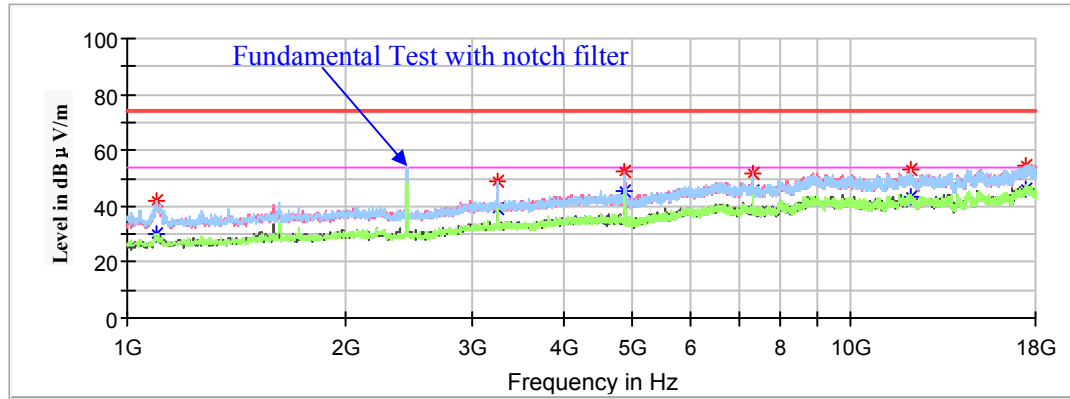
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1071.400000	---	34.68	150.0	V	256.0	-8.7	54.00	19.32
1071.400000	41.53	---	150.0	V	256.0	-8.7	74.00	32.47
3215.100000	---	40.02	150.0	V	36.0	-1.9	54.00	13.98
3215.100000	46.52	---	150.0	V	36.0	-1.9	74.00	27.48
4824.000000	---	45.96	150.0	V	218.0	0.6	54.00	8.04
4824.000000	51.89	---	150.0	V	218.0	0.6	74.00	22.11
7236.000000	---	45.56	200.0	H	313.0	5.3	54.00	8.44
7236.000000	52.05	---	200.0	H	313.0	5.3	74.00	21.95
11903.800000	---	41.44	150.0	V	116.0	10.1	54.00	12.56
11903.800000	52.42	---	150.0	V	116.0	10.1	74.00	21.58
17648.100000	---	47.18	200.0	V	97.0	14.1	54.00	6.82
17648.100000	55.44	---	200.0	V	97.0	14.1	74.00	18.56

Middle Channel: 2437MHz

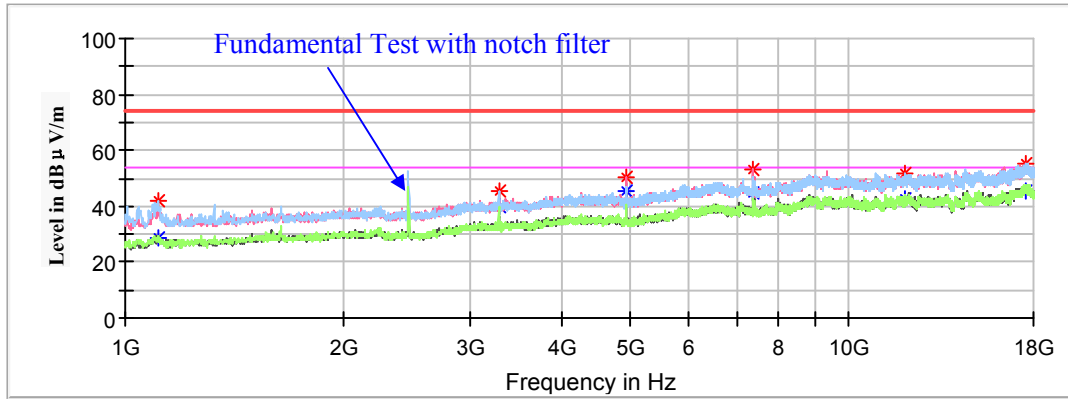
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1096.900000	---	30.36	150.0	H	193.0	-8.6	54.00	23.64
1096.900000	42.13	---	150.0	H	193.0	-8.6	74.00	31.87
3249.100000	---	39.42	150.0	H	76.0	-1.9	54.00	14.58
3249.100000	48.67	---	150.0	H	76.0	-1.9	74.00	25.33
4874.000000	---	45.72	150.0	V	217.0	0.5	54.00	8.28
4874.000000	52.47	---	150.0	V	217.0	0.5	74.00	21.53
7311.000000	---	45.29	200.0	V	211.0	5.1	54.00	8.71
7311.000000	51.98	---	200.0	V	211.0	5.1	74.00	22.02
12099.300000	---	43.31	200.0	H	187.0	10.1	54.00	10.69
12099.300000	52.82	---	200.0	H	187.0	10.1	74.00	21.18
17478.100000	---	46.38	150.0	V	324.0	14.4	54.00	7.62
17478.100000	54.89	---	150.0	V	324.0	14.4	74.00	19.11

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1108.800000	---	28.46	150.0	H	25.0	-8.5	54.00	25.54
1108.800000	41.78	---	150.0	H	25.0	-8.5	74.00	32.22
3281.400000	---	40.08	150.0	H	142.0	-1.9	54.00	13.92
3281.400000	45.28	---	150.0	H	142.0	-1.9	74.00	28.72
4924.000000	---	45.15	150.0	V	47.0	0.4	54.00	8.85
4924.000000	50.36	---	150.0	V	47.0	0.4	74.00	23.64
7386.000000	---	44.44	150.0	V	212.0	5.0	54.00	9.56
7386.000000	52.97	---	150.0	V	212.0	5.0	74.00	21.03
11934.400000	---	42.63	150.0	H	168.0	10.1	54.00	11.37
11934.400000	52.02	---	150.0	H	168.0	10.1	74.00	21.98
17595.400000	---	45.53	200.0	V	103.0	14.2	54.00	8.47
17595.400000	55.43	---	200.0	V	103.0	14.2	74.00	18.57

802.11g Mode:

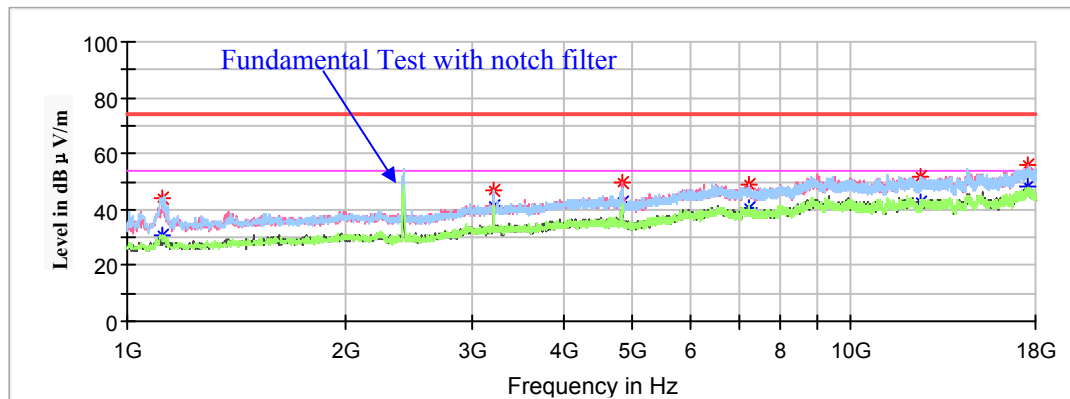
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

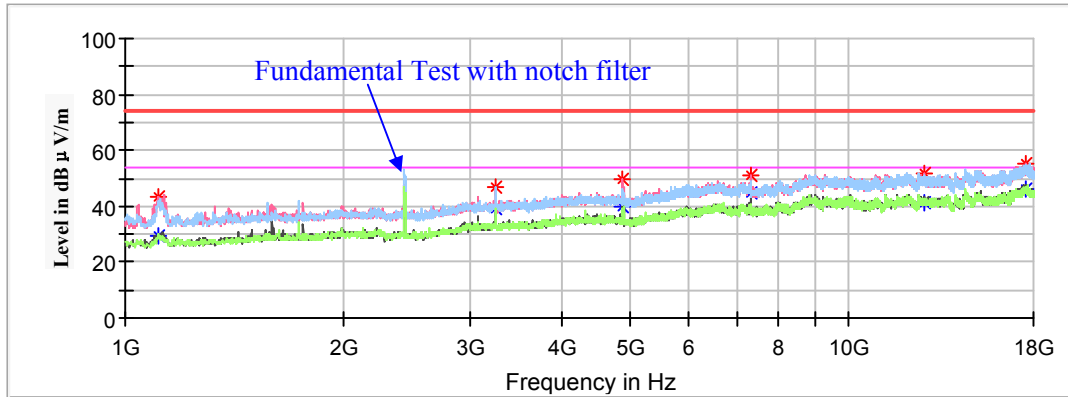
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1117.300000	---	30.51	150.0	H	232.0	-8.4	54.00	23.49
1117.300000	44.25	---	150.0	H	232.0	-8.4	74.00	29.75
3215.100000	---	41.21	200.0	H	161.0	-1.9	54.00	12.79
3215.100000	46.86	---	200.0	H	161.0	-1.9	74.00	27.14
4824.000000	---	42.32	150.0	V	217.0	0.6	54.00	11.68
4824.000000	49.63	---	150.0	V	217.0	0.6	74.00	24.37
7236.000000	---	40.47	150.0	V	77.0	5.3	54.00	13.53
7236.000000	48.84	---	150.0	V	77.0	5.3	74.00	25.16
12492.000000	---	42.69	150.0	V	270.0	10.7	54.00	11.31
12492.000000	51.84	---	150.0	V	270.0	10.7	74.00	22.16
17512.100000	---	48.37	150.0	V	102.0	14.4	54.00	5.63
17512.100000	55.64	---	150.0	V	102.0	14.4	74.00	18.36

Middle Channel: 2437MHz

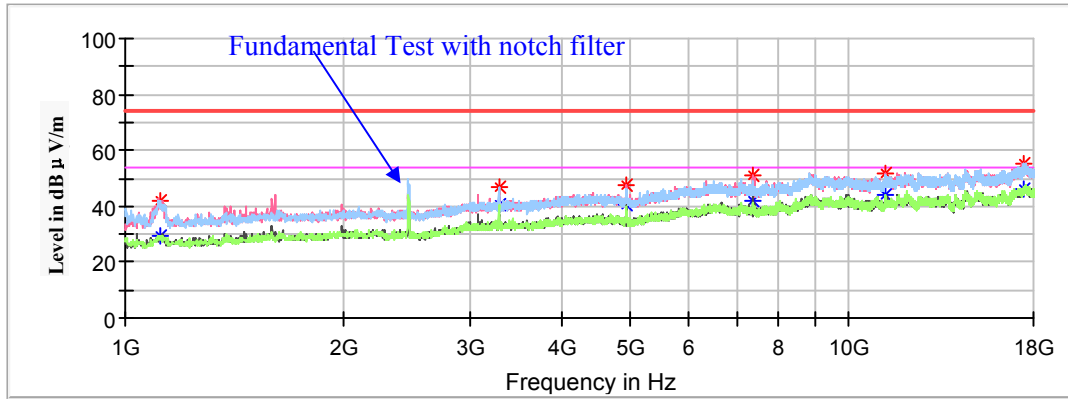
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1112.200000	---	29.66	150.0	H	301.0	-8.5	54.00	24.34
1112.200000	43.68	---	150.0	H	301.0	-8.5	74.00	30.32
3249.100000	---	39.25	150.0	H	143.0	-1.9	54.00	14.75
3249.100000	47.10	---	150.0	H	143.0	-1.9	74.00	26.90
4874.000000	---	39.90	200.0	V	82.0	0.5	54.00	14.10
4874.000000	49.43	---	200.0	V	82.0	0.5	74.00	24.57
7311.000000	---	44.46	200.0	V	224.0	5.1	54.00	9.54
7311.000000	51.24	---	150.0	V	217.0	5.1	74.00	22.76
12718.100000	---	41.39	150.0	V	141.0	10.3	54.00	12.61
12718.100000	51.44	---	150.0	V	141.0	10.3	74.00	22.56
17552.900000	---	45.96	200.0	V	338.0	14.3	54.00	8.04
17552.900000	54.98	---	200.0	V	338.0	14.3	74.00	19.02

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1119.000000	42.28	---	200.0	H	205.0	-8.4	74.00	31.72
1119.000000	---	29.34	200.0	H	205.0	-8.4	54.00	24.66
3281.400000	47.08	---	150.0	H	143.0	-1.9	74.00	26.92
3281.400000	---	40.34	150.0	H	143.0	-1.9	54.00	13.66
4924.000000	47.25	---	150.0	V	212.0	0.4	74.00	26.75
4924.000000	---	40.31	150.0	V	212.0	0.4	54.00	13.69
7386.000000	51.10	---	150.0	V	212.0	5.0	74.00	22.90
7386.000000	---	42.16	150.0	V	212.0	5.0	54.00	11.84
11206.800000	51.71	---	200.0	V	181.0	10.1	74.00	22.29
11206.800000	---	43.91	200.0	V	181.0	10.1	54.00	10.09
17476.400000	---	46.02	150.0	V	0.0	14.4	54.00	7.98
17476.400000	55.37	---	150.0	V	0.0	14.4	74.00	18.63

802.11n-HT20 Mode:

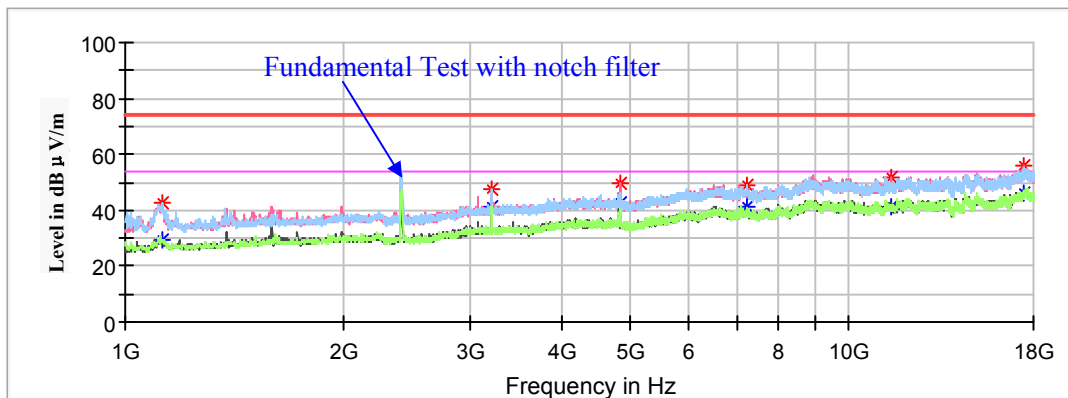
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

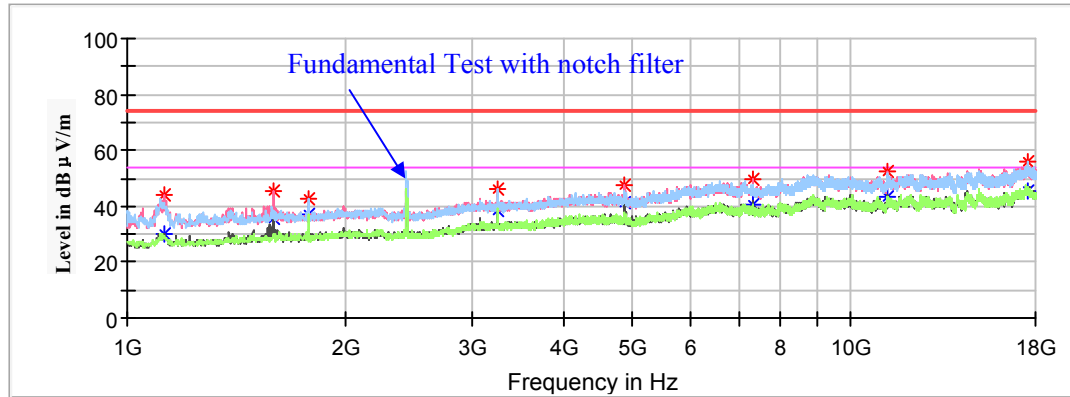
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1127.500000	---	29.37	150.0	H	270.0	-8.4	54.00	24.63
1127.500000	42.41	---	150.0	H	270.0	-8.4	74.00	31.59
3215.100000	---	41.18	200.0	H	15.0	-1.9	54.00	12.82
3215.100000	47.28	---	200.0	H	15.0	-1.9	74.00	26.72
4824.000000	---	42.95	150.0	V	102.0	0.6	54.00	11.05
4824.000000	49.65	---	150.0	V	102.0	0.6	74.00	24.35
7236.000000	---	41.03	200.0	V	211.0	5.3	54.00	12.97
7236.000000	49.08	---	200.0	V	211.0	5.3	74.00	24.92
11456.700000	---	40.93	200.0	H	205.0	10.5	54.00	13.07
11456.700000	51.49	---	200.0	H	205.0	10.5	74.00	22.51
17495.100000	---	46.32	150.0	V	230.0	14.4	54.00	7.68
17495.100000	55.71	---	150.0	V	230.0	14.4	74.00	18.29

Middle Channel: 2437MHz

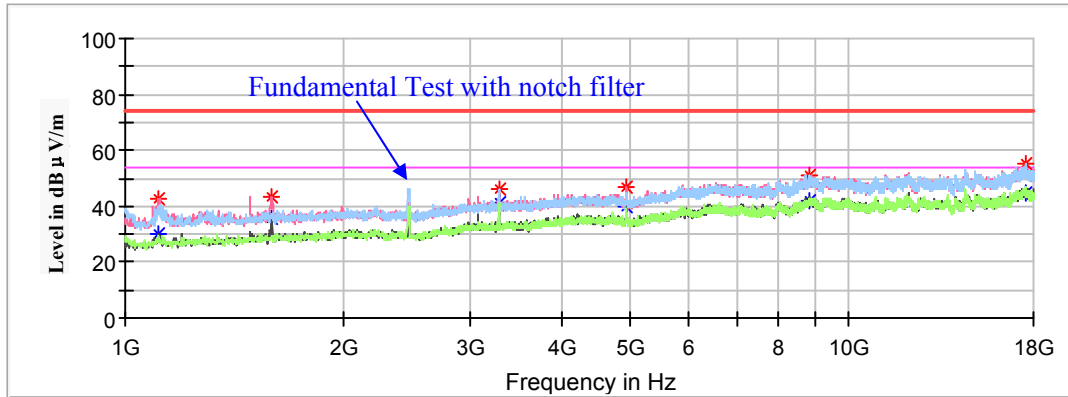
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1122.400000	---	29.95	150.0	V	191.0	-8.4	54.00	24.05
1122.400000	43.81	---	150.0	V	191.0	-8.4	74.00	30.19
1591.600000	---	35.76	200.0	V	275.0	-6.2	54.00	18.24
1591.600000	45.45	---	200.0	V	275.0	-6.2	74.00	28.55
1782.000000	---	36.85	150.0	H	7.0	-5.6	54.00	17.15
1782.000000	42.95	---	150.0	H	7.0	-5.6	74.00	31.05
3249.100000	---	38.56	150.0	V	26.0	-1.9	54.00	15.44
3249.100000	46.20	---	150.0	V	26.0	-1.9	74.00	27.80
4874.000000	---	41.29	150.0	V	217.0	0.5	54.00	12.71
4874.000000	47.56	---	150.0	V	217.0	0.5	74.00	26.44
7311.000000	---	40.25	200.0	V	224.0	5.1	54.00	13.75
7311.000000	49.34	---	200.0	V	224.0	5.1	74.00	24.66
11268.000000	---	43.24	150.0	V	52.0	10.2	54.00	10.76
11268.000000	52.64	---	150.0	V	52.0	10.2	74.00	21.36
17537.600000	---	45.39	200.0	V	0.0	14.4	54.00	8.61
17537.600000	55.66	---	200.0	V	0.0	14.4	74.00	18.34

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1112.200000	---	30.16	200.0	V	296.0	-8.5	54.00	23.84
1112.200000	42.40	---	200.0	V	296.0	-8.5	74.00	31.60
1596.700000	43.25	---	200.0	V	270.0	-6.2	74.00	30.75
1596.700000	---	35.98	200.0	V	270.0	-6.2	54.00	18.02
3281.400000	---	41.46	150.0	H	163.0	-1.9	54.00	12.54
3281.400000	46.36	---	150.0	H	163.0	-1.9	74.00	27.64
4924.000000	---	39.57	150.0	V	350.0	0.4	54.00	14.43
4924.000000	46.97	---	150.0	V	350.0	0.4	74.00	27.03
8797.900000	50.95	---	150.0	H	43.0	8.7	74.00	23.05
8797.900000	---	41.80	150.0	H	43.0	8.7	54.00	12.20
17522.300000	---	44.61	150.0	H	18.0	14.4	54.00	9.39
17522.300000	54.96	---	150.0	H	18.0	14.4	74.00	19.04

802.11n-HT40 Mode:

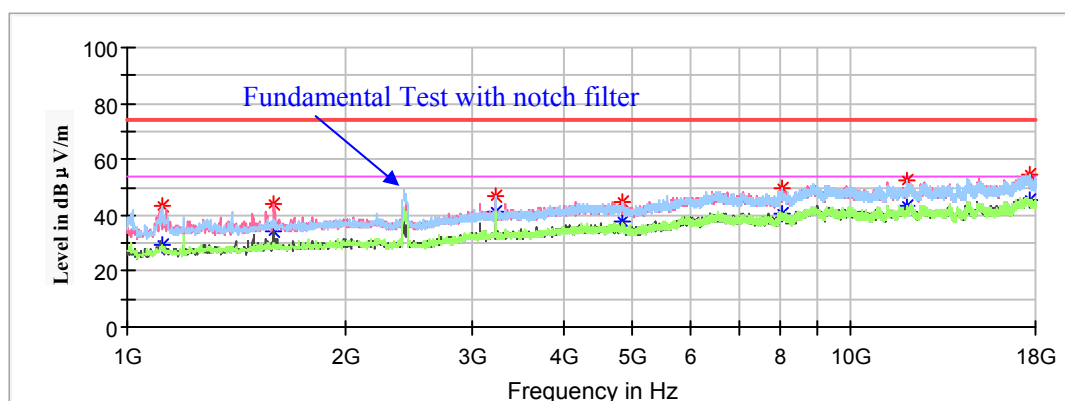
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

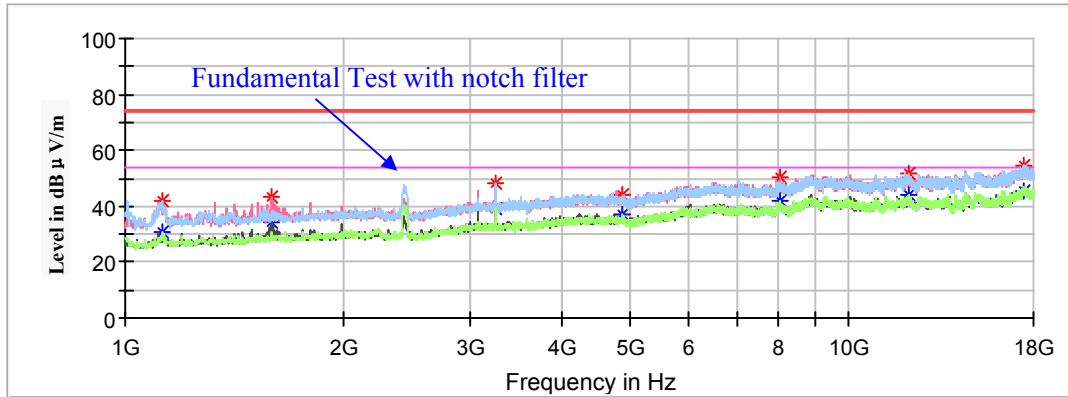
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1115.600000	---	29.44	150.0	H	230.0	-8.5	54.00	24.56
1115.600000	43.57	---	150.0	H	230.0	-8.4	74.00	30.43
1595.000000	---	34.45	150.0	V	289.0	-6.2	54.00	19.55
1595.000000	44.02	---	150.0	V	289.0	-6.2	74.00	29.98
3228.700000	---	40.98	150.0	H	88.0	-1.9	54.00	13.02
3228.700000	47.03	---	150.0	H	88.0	-1.9	74.00	26.97
4844.000000	---	37.84	150.0	V	226.0	0.6	54.00	16.16
4844.000000	44.89	---	150.0	V	226.0	0.6	74.00	29.11
8021.000000	---	40.49	150.0	H	139.0	6.1	54.00	13.51
8021.000000	49.95	---	150.0	H	139.0	6.1	74.00	24.05
11941.200000	---	43.17	200.0	H	341.0	10.1	54.00	10.83
11941.200000	52.39	---	200.0	H	341.0	10.1	74.00	21.61
17654.900000	---	45.49	200.0	H	316.0	14.1	54.00	8.51
17654.900000	54.49	---	200.0	H	316.0	14.1	74.00	19.51

Middle Channel: 2437MHz

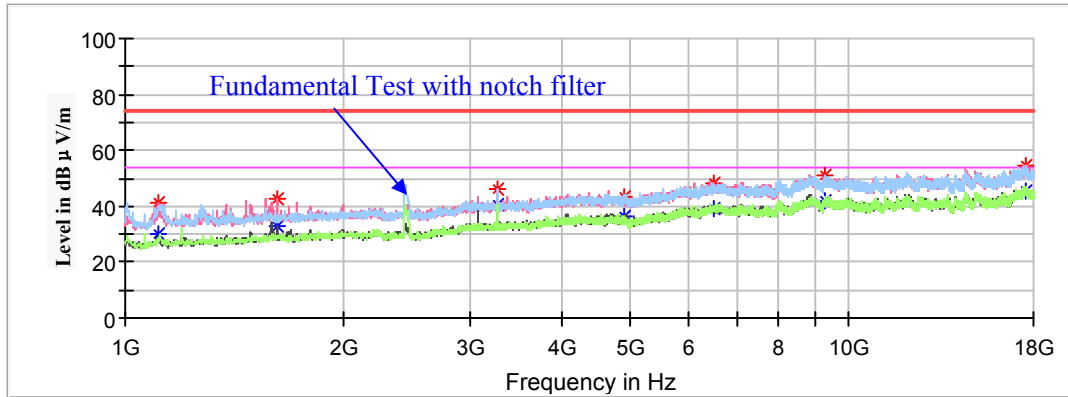
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1124.100000	41.98	---	150.0	H	217.0	-8.4	74.00	32.02
1124.100000	---	31.07	150.0	H	217.0	-8.4	54.00	22.93
1593.300000	---	34.39	200.0	V	311.0	-6.2	54.00	19.61
1593.300000	43.31	---	200.0	V	311.0	-6.2	74.00	30.69
3249.100000	---	39.32	150.0	H	165.0	-1.9	54.00	14.68
3249.100000	48.00	---	150.0	H	165.0	-1.9	74.00	26.00
4874.000000	44.13	---	200.0	V	47.0	0.5	74.00	29.87
4874.000000	---	37.28	200.0	V	47.0	0.5	54.00	16.72
8034.600000	---	42.20	150.0	H	14.0	6.2	54.00	11.80
8034.600000	50.26	---	150.0	H	14.0	6.2	74.00	23.74
12097.600000	---	44.26	200.0	V	103.0	10.1	54.00	9.74
12097.600000	51.55	---	200.0	V	103.0	10.1	74.00	22.45
17491.700000	---	45.65	150.0	H	1.0	14.4	54.00	8.35
17491.700000	54.88	---	150.0	H	1.0	14.4	74.00	19.12

High Channel: 2452MHz

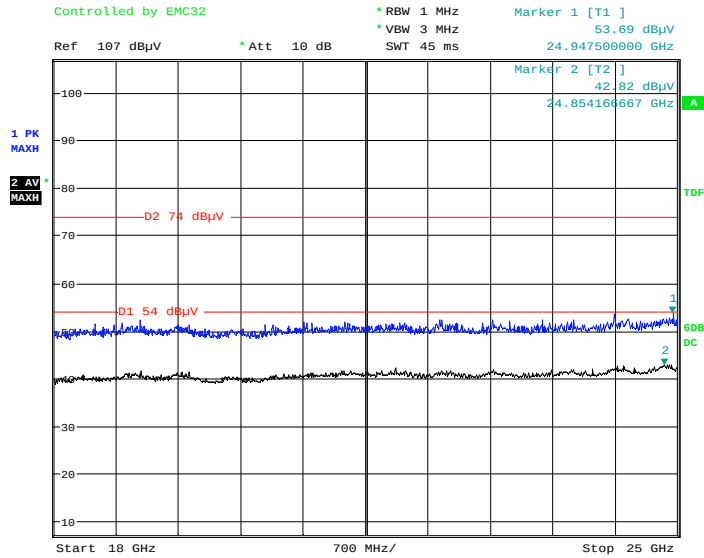
Full Spectrum



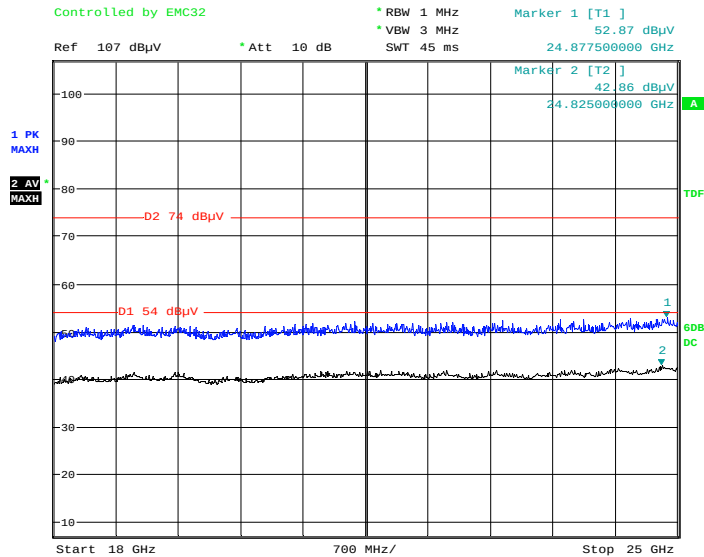
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1112.200000	41.43	---	200.0	V	269.0	-8.5	74.00	32.57
1112.200000	---	30.42	200.0	V	269.0	-8.5	54.00	23.58
1622.200000	---	33.00	200.0	V	282.0	-6.1	54.00	21.00
1622.200000	42.44	---	200.0	V	282.0	-6.1	74.00	31.56
3267.800000	---	40.81	200.0	H	89.0	-1.9	54.00	13.19
3267.800000	46.42	---	200.0	H	89.0	-1.9	74.00	27.58
4904.000000	---	36.23	150.0	V	188.0	0.4	54.00	17.77
4904.000000	43.50	---	150.0	V	188.0	0.4	74.00	30.50
6504.600000	---	39.25	150.0	H	114.0	5.4	54.00	14.75
6504.600000	48.56	---	150.0	H	114.0	5.4	74.00	25.44
9246.700000	51.29	---	200.0	H	249.0	9.3	74.00	22.71
9246.700000	---	42.17	200.0	H	249.0	9.3	54.00	11.83
17544.400000	---	45.72	200.0	H	288.0	14.3	54.00	8.28
17544.400000	54.65	---	200.0	H	288.0	14.3	74.00	19.35

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal

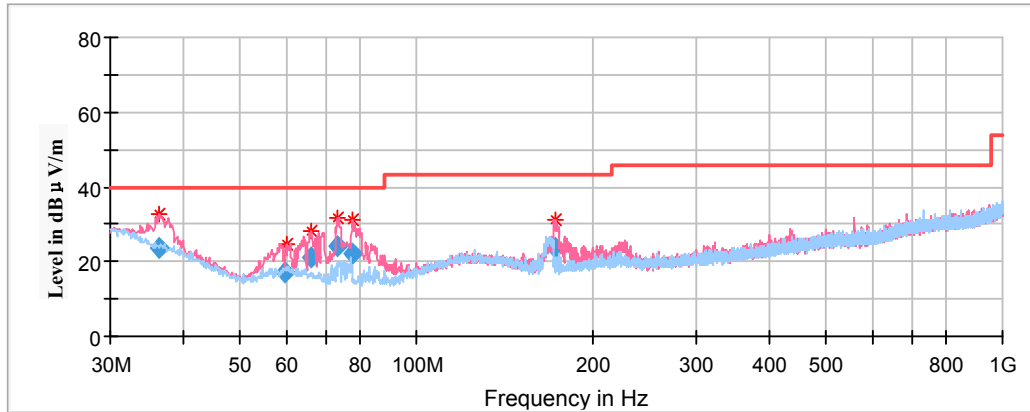
Date: 20.JUL.2021 00:00:11

Vertical

Date: 20.JUL.2021 00:06:38

Series Model: 9290030098**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
36.427450	23.83	100.0	V	269.0	-7.8	40.00	16.17
59.823400	16.95	100.0	V	57.0	-14.6	40.00	23.05
66.250810	21.34	100.0	V	253.0	-16.0	40.00	18.66
73.528950	24.02	100.0	V	134.0	-17.0	40.00	15.98
77.659450	22.33	100.0	V	63.0	-17.1	40.00	17.67
171.986500	23.71	100.0	V	226.0	-13.7	43.50	19.79

1GHz-18GHz:**802.11b Mode:**

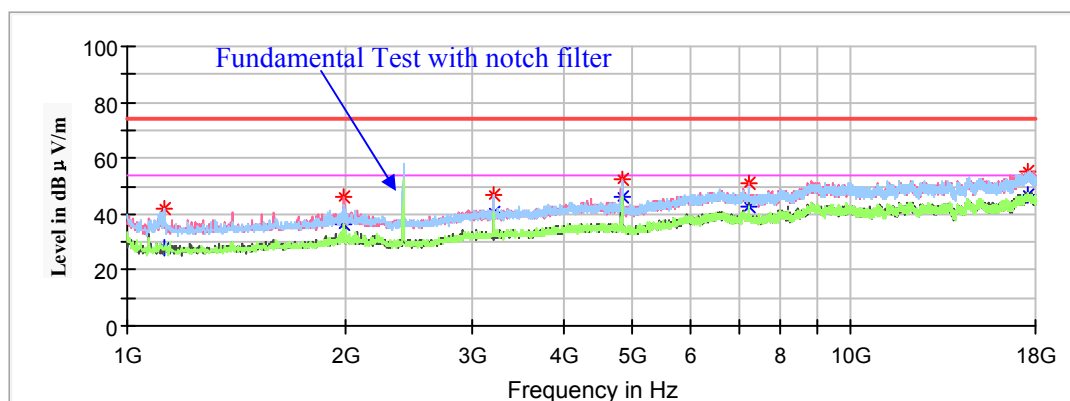
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

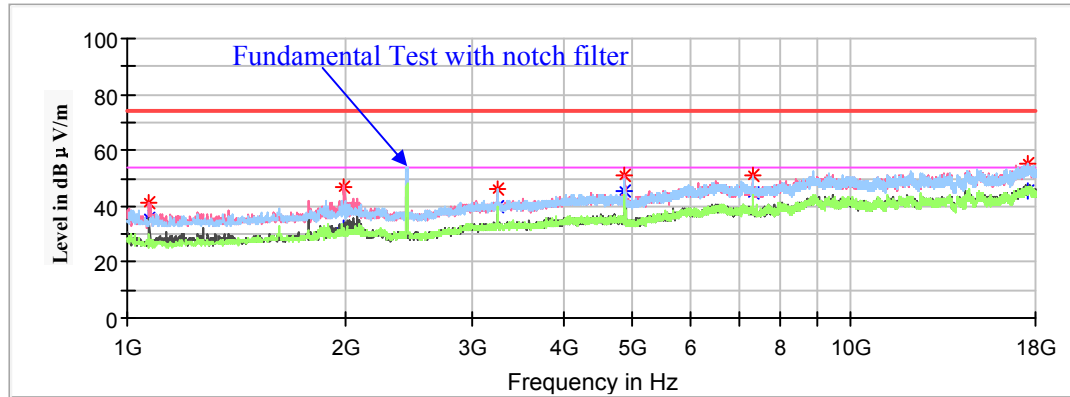
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1125.800000	---	27.67	150.0	H	324.0	-8.4	54.00	26.33
1125.800000	41.69	---	150.0	H	324.0	-8.4	74.00	32.31
1996.200000	---	36.43	150.0	V	155.0	-4.9	54.00	17.57
1996.200000	45.94	---	150.0	V	155.0	-4.9	74.00	28.06
3215.100000	---	40.29	150.0	H	154.0	-1.9	54.00	13.71
3215.100000	46.80	---	150.0	H	154.0	-1.9	74.00	27.20
4824.000000	---	46.13	200.0	V	103.0	0.6	54.00	7.87
4824.000000	52.39	---	200.0	V	103.0	0.6	74.00	21.61
7236.000000	---	42.87	200.0	V	218.0	5.3	54.00	11.13
7236.000000	50.78	---	200.0	V	218.0	5.3	74.00	23.22
17580.100000	---	46.71	200.0	V	0.0	14.3	54.00	7.29
17580.100000	55.31	---	200.0	V	0.0	14.3	74.00	18.69

Middle Channel: 2437MHz

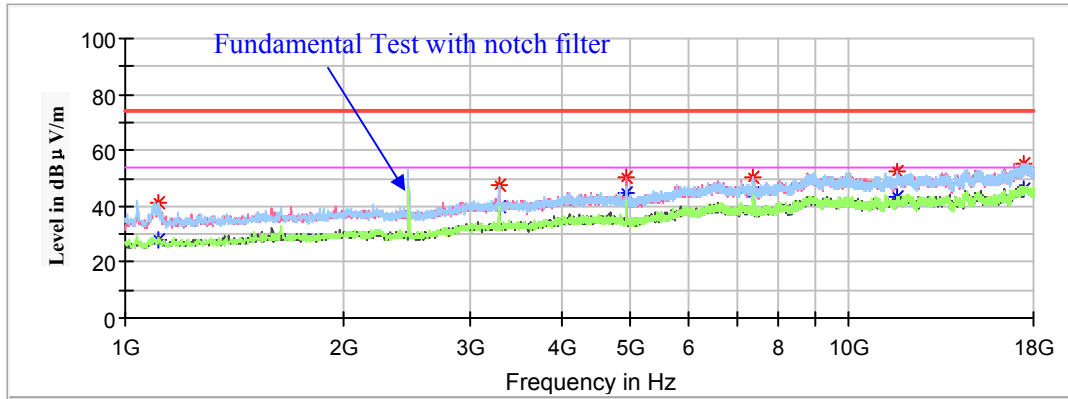
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1071.400000	---	35.92	200.0	V	345.0	-8.7	54.00	18.08
1071.400000	41.57	---	200.0	V	345.0	-8.7	74.00	32.43
1992.800000	---	32.24	200.0	V	60.0	-4.9	54.00	21.76
1992.800000	47.02	---	200.0	V	60.0	-4.9	74.00	26.98
3249.100000	---	39.66	150.0	H	90.0	-1.9	54.00	14.34
3249.100000	46.29	---	150.0	H	90.0	-1.9	74.00	27.71
4874.000000	---	45.18	150.0	V	219.0	0.5	54.00	8.82
4874.000000	51.13	---	150.0	V	219.0	0.5	74.00	22.87
7311.000000	---	44.43	200.0	V	192.0	5.1	54.00	9.57
7311.000000	51.00	---	200.0	V	192.0	5.1	74.00	23.00
17513.800000	---	45.78	150.0	H	141.0	14.4	54.00	8.22
17513.800000	55.55	---	150.0	H	141.0	14.4	74.00	18.45

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1113.900000	---	27.63	150.0	H	194.0	-8.5	54.00	26.37
1113.900000	41.27	---	150.0	H	194.0	-8.5	74.00	32.73
3281.400000	---	40.17	200.0	H	73.0	-1.9	54.00	13.83
3281.400000	47.59	---	200.0	H	73.0	-1.9	74.00	26.41
4924.000000	---	44.92	150.0	V	218.0	0.4	54.00	9.08
4924.000000	50.20	---	150.0	V	218.0	0.4	74.00	23.80
7386.000000	---	44.55	200.0	V	250.0	5.0	54.00	9.45
7386.000000	50.57	---	200.0	V	250.0	5.0	74.00	23.43
11669.200000	---	43.03	150.0	H	356.0	10.4	54.00	10.97
11669.200000	52.36	---	150.0	H	356.0	10.4	74.00	21.64
17486.600000	---	46.11	200.0	H	48.0	14.4	54.00	7.89
17486.600000	55.55	---	200.0	H	48.0	14.4	74.00	18.45

802.11g Mode:

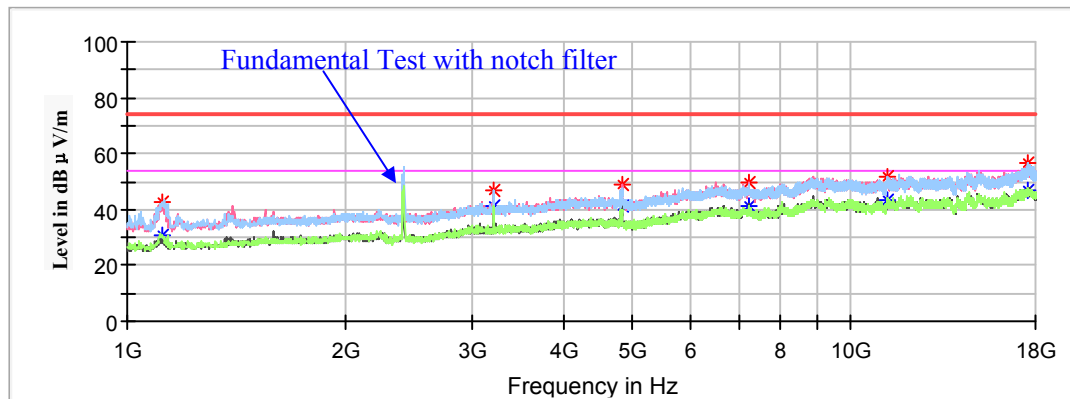
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

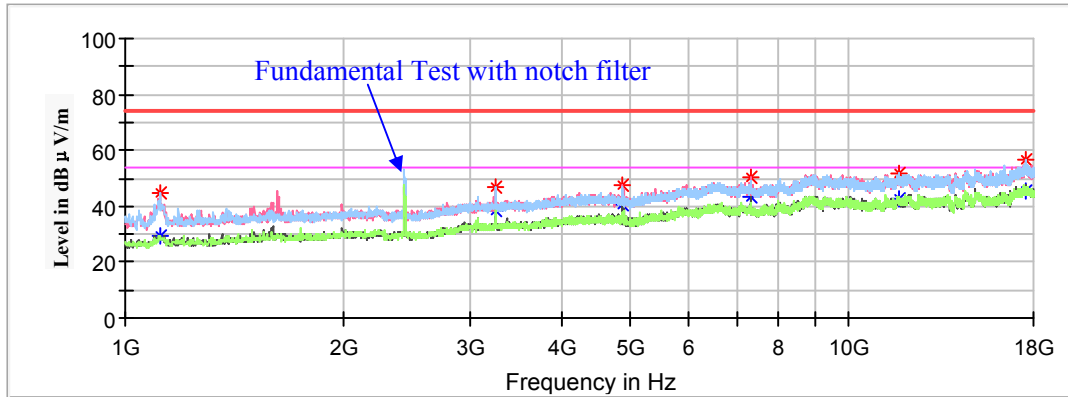
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1119.000000	---	30.93	150.0	H	181.0	-8.4	54.00	23.07
1119.000000	42.98	---	150.0	H	181.0	-8.4	74.00	31.02
3215.100000	---	41.39	200.0	H	84.0	-1.9	54.00	12.61
3215.100000	46.55	---	200.0	H	84.0	-1.9	74.00	27.45
4824.000000	---	41.05	150.0	V	253.0	0.6	54.00	12.95
4824.000000	49.24	---	150.0	V	253.0	0.6	74.00	24.76
7236.000000	---	41.13	150.0	H	321.0	5.3	54.00	12.87
7236.000000	49.32	---	150.0	H	321.0	5.3	74.00	24.68
11247.600000	---	43.05	150.0	V	0.0	10.1	54.00	10.95
11247.600000	51.87	---	150.0	V	0.0	10.1	74.00	22.13
17610.700000	---	47.17	200.0	H	33.0	14.2	54.00	6.83
17610.700000	56.31	---	200.0	H	33.0	14.2	74.00	17.69

Middle Channel: 2437MHz

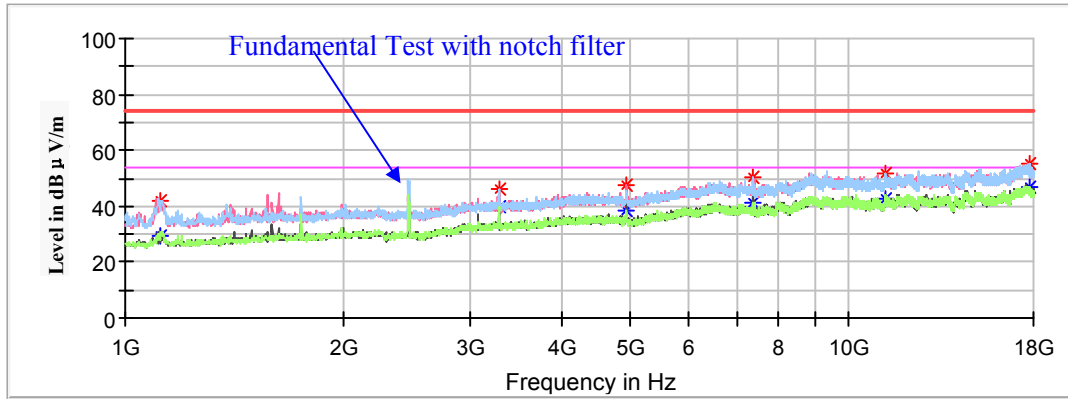
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1117.300000	44.96	---	150.0	H	307.0	-8.4	74.00	29.04
1117.300000	---	29.43	150.0	H	307.0	-8.4	54.00	24.57
3249.100000	46.63	---	200.0	H	98.0	-1.9	74.00	27.37
3249.100000	---	38.67	200.0	H	98.0	-1.9	54.00	15.33
4874.000000	47.59	---	150.0	V	192.0	0.5	74.00	26.41
4874.000000	---	40.84	150.0	V	192.0	0.5	54.00	13.16
7311.000000	50.47	---	200.0	V	194.0	5.1	74.00	23.53
7311.000000	---	43.24	200.0	V	194.0	5.1	54.00	10.76
11737.200000	51.41	---	200.0	H	60.0	10.3	74.00	22.59
11737.200000	---	42.50	200.0	H	60.0	10.3	54.00	11.50
17556.300000	---	45.36	150.0	H	320.0	14.3	54.00	8.64
17556.300000	56.55	---	150.0	H	320.0	14.3	74.00	17.45

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1115.600000	---	29.28	200.0	V	219.0	-8.5	54.00	24.72
1115.600000	42.04	---	200.0	V	219.0	-8.5	74.00	31.96
3281.400000	---	39.80	200.0	H	85.0	-1.9	54.00	14.20
3281.400000	46.24	---	200.0	H	85.0	-1.9	74.00	27.76
4924.000000	---	38.46	150.0	V	225.0	0.4	54.00	15.54
4924.000000	47.26	---	150.0	V	225.0	0.4	74.00	26.74
7386.000000	---	41.12	150.0	V	199.0	5.0	54.00	12.88
7386.000000	50.31	---	150.0	V	199.0	5.0	74.00	23.69
11205.100000	---	42.47	150.0	H	232.0	10.0	54.00	11.53
11205.100000	51.64	---	150.0	H	232.0	10.0	74.00	22.36
17726.300000	---	46.82	200.0	H	34.0	13.9	54.00	7.18
17726.300000	55.28	---	200.0	H	34.0	13.9	74.00	18.72

802.11n-HT20 Mode:

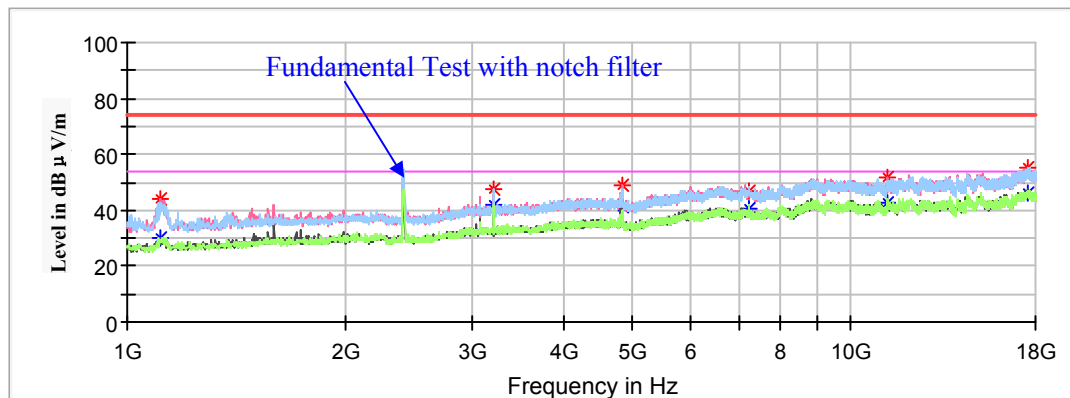
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

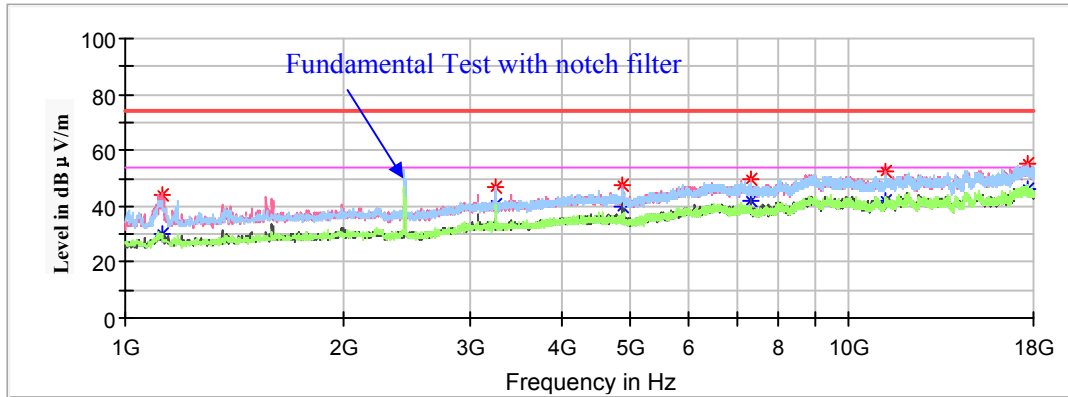
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1112.200000	44.19	---	150.0	V	204.0	-8.5	74.00	29.81
1112.200000	---	30.09	150.0	V	204.0	-8.5	54.00	23.91
3215.100000	47.88	---	150.0	H	147.0	-1.9	74.00	26.12
3215.100000	---	42.08	150.0	H	147.0	-1.9	54.00	11.92
4824.000000	48.69	---	200.0	V	81.0	0.6	74.00	25.31
4824.000000	---	41.28	200.0	V	81.0	0.6	54.00	12.72
7236.000000	47.04	---	200.0	V	237.0	5.3	74.00	26.96
7236.000000	---	40.50	200.0	V	237.0	5.3	54.00	13.50
11205.100000	51.58	---	150.0	V	270.0	10.0	74.00	22.42
11205.100000	---	42.94	150.0	V	270.0	10.0	54.00	11.06
17520.600000	---	45.97	150.0	H	313.0	14.4	54.00	8.03
17520.600000	54.91	---	150.0	H	313.0	14.4	74.00	19.09

Middle Channel: 2437MHz

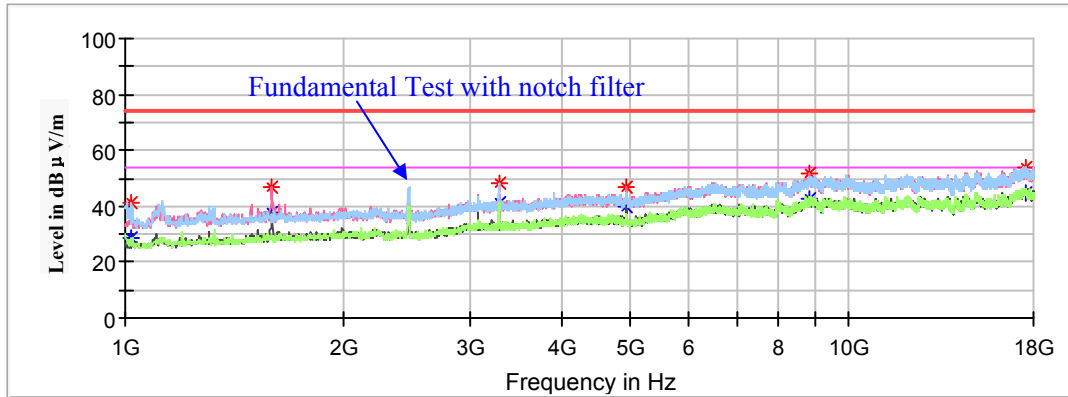
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1124.100000	---	30.18	200.0	V	211.0	-8.4	54.00	23.82
1124.100000	44.40	---	200.0	V	211.0	-8.4	74.00	29.60
3249.100000	---	40.24	150.0	H	156.0	-1.9	54.00	13.76
3249.100000	46.81	---	150.0	H	156.0	-1.9	74.00	27.19
4874.000000	---	39.97	150.0	V	216.0	0.5	54.00	14.03
4874.000000	47.73	---	150.0	V	216.0	0.5	74.00	26.27
7311.000000	---	42.29	150.0	V	203.0	5.1	54.00	11.71
7311.000000	49.73	---	150.0	V	203.0	5.1	74.00	24.27
11208.500000	---	42.30	150.0	V	51.0	10.1	54.00	11.70
11208.500000	52.35	---	150.0	V	51.0	10.1	74.00	21.65
17626.000000	---	46.41	200.0	V	325.0	14.1	54.00	7.59
17626.000000	55.40	---	200.0	V	325.0	14.1	74.00	18.60

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1020.400000	41.22	---	200.0	H	315.0	-8.9	74.00	32.78
1020.400000	---	28.98	200.0	H	315.0	-8.9	54.00	25.02
1593.300000	---	37.91	150.0	V	290.0	-6.2	54.00	16.09
1593.300000	46.74	---	150.0	V	290.0	-6.2	74.00	27.26
3281.400000	---	41.54	200.0	H	78.0	-1.9	54.00	12.46
3281.400000	47.93	---	200.0	H	78.0	-1.9	74.00	26.07
4924.000000	46.51	---	200.0	V	52.0	0.4	74.00	27.49
4924.000000	---	39.64	200.0	V	52.0	0.4	54.00	14.36
8797.900000	---	42.98	200.0	V	141.0	8.7	54.00	11.02
8797.900000	51.55	---	200.0	V	141.0	8.7	74.00	22.45
17556.300000	---	44.89	150.0	V	0.0	14.3	54.00	9.11
17556.300000	53.95	---	150.0	V	0.0	14.3	74.00	20.05

802.11n-HT40 Mode:

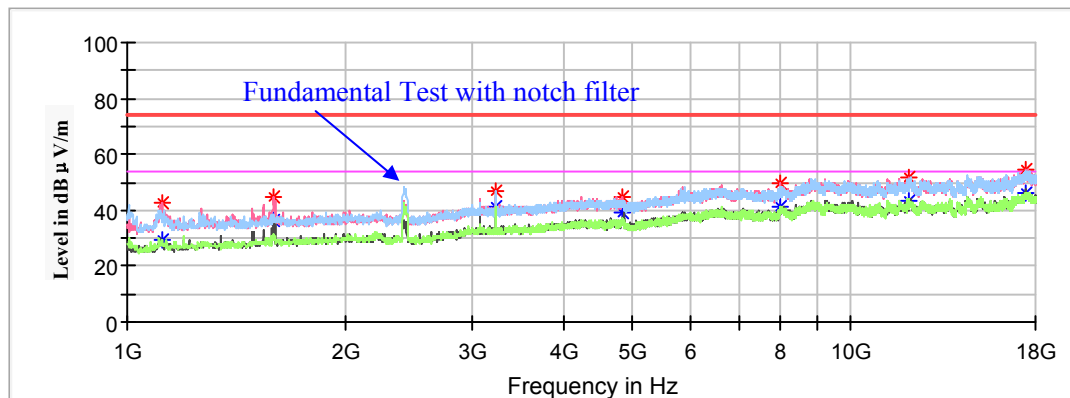
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

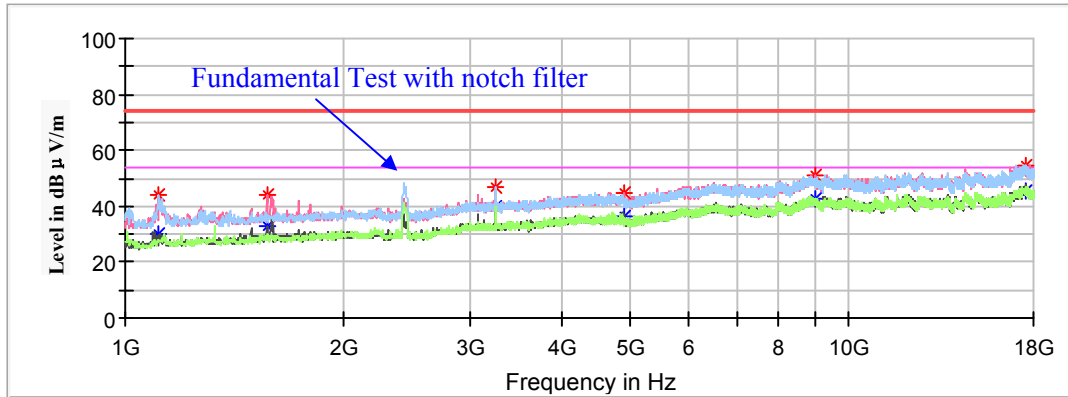
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1117.300000	---	29.21	200.0	V	270.0	-8.4	54.00	24.79
1117.300000	42.65	---	200.0	V	270.0	-8.4	74.00	31.35
1595.000000	---	36.71	150.0	V	263.0	-6.2	54.00	17.29
1595.000000	44.87	---	150.0	V	288.0	-6.2	74.00	29.13
3228.700000	46.88	---	150.0	H	164.0	-1.9	74.00	27.12
3228.700000	---	41.20	150.0	H	164.0	-1.9	54.00	12.80
4844.000000	44.60	---	200.0	V	217.0	0.6	74.00	29.40
4844.000000	---	38.94	200.0	V	217.0	0.6	54.00	15.06
7995.500000	49.39	---	200.0	V	63.0	6.1	74.00	24.61
7995.500000	---	41.55	200.0	V	63.0	6.1	54.00	12.45
12016.000000	---	43.09	150.0	V	55.0	10.0	54.00	10.91
12016.000000	51.80	---	150.0	V	55.0	10.0	74.00	22.20
17484.900000	---	45.95	200.0	V	352.0	14.4	54.00	8.05
17484.900000	54.54	---	200.0	V	352.0	14.4	74.00	19.46

Middle Channel: 2437MHz

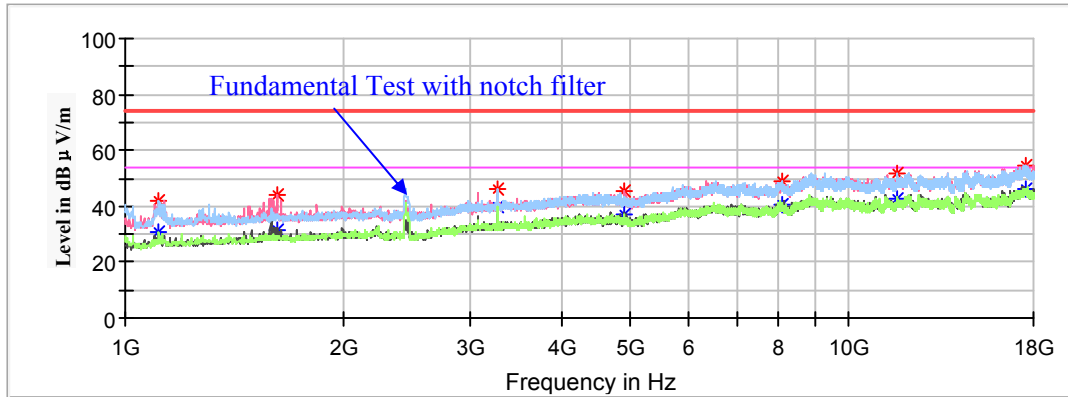
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1113.900000	43.83	---	150.0	H	225.0	-8.5	74.00	30.17
1113.900000	---	30.00	150.0	H	225.0	-8.5	54.00	24.00
1569.500000	---	32.99	200.0	V	297.0	-6.3	54.00	21.01
1569.500000	44.17	---	200.0	V	297.0	-6.3	74.00	29.83
3249.100000	---	39.62	150.0	H	161.0	-1.9	54.00	14.38
3249.100000	46.96	---	150.0	H	161.0	-1.9	74.00	27.04
4874.000000	---	36.69	200.0	V	101.0	0.5	54.00	17.31
4874.000000	44.49	---	200.0	V	101.0	0.5	74.00	29.51
9012.100000	---	42.57	200.0	V	63.0	9.5	54.00	11.43
9012.100000	51.04	---	200.0	V	63.0	9.5	74.00	22.96
17573.300000	---	45.63	150.0	H	46.0	14.3	54.00	8.37
17573.300000	54.87	---	150.0	H	46.0	14.3	74.00	19.13

High Channel: 2452MHz

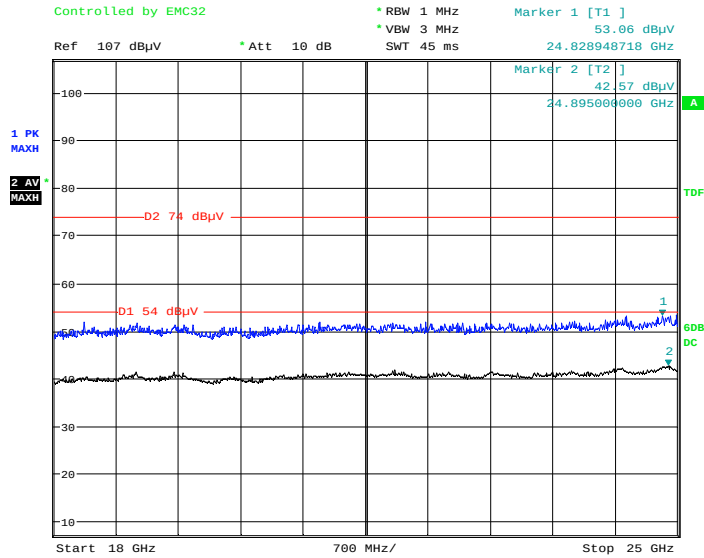
Full Spectrum



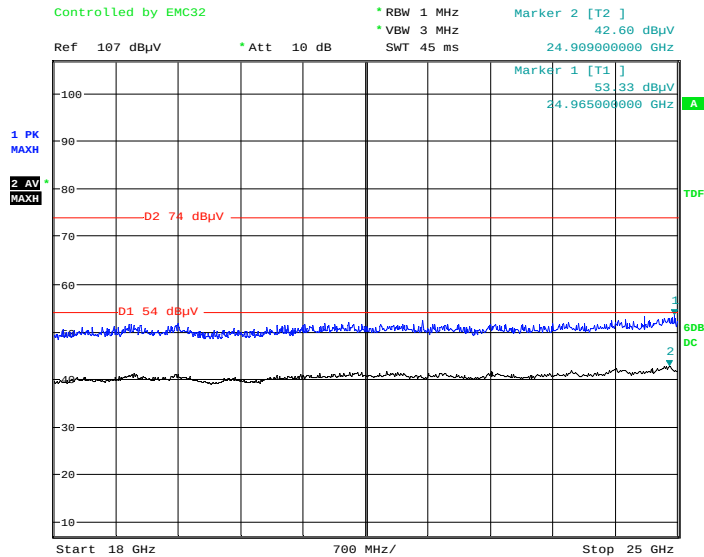
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1113.900000	---	30.46	150.0	H	226.0	-8.5	54.00	23.54
1113.900000	42.10	---	150.0	H	226.0	-8.5	74.00	31.90
1622.200000	---	31.32	150.0	V	292.0	-6.1	54.00	22.68
1622.200000	44.39	---	150.0	V	292.0	-6.1	74.00	29.61
3267.800000	---	40.02	200.0	H	90.0	-1.9	54.00	13.98
3267.800000	46.44	---	200.0	H	90.0	-1.9	74.00	27.56
4904.000000	---	37.19	200.0	V	243.0	0.4	54.00	16.81
4904.000000	45.77	---	200.0	V	243.0	0.4	74.00	28.23
8068.600000	---	40.41	200.0	V	102.0	6.3	54.00	13.59
8068.600000	48.90	---	200.0	V	102.0	6.3	74.00	25.10
11642.000000	---	42.95	200.0	V	1.0	10.4	54.00	11.05
11642.000000	51.57	---	200.0	V	1.0	10.4	74.00	22.43
17539.300000	---	45.84	150.0	V	330.0	14.3	54.00	8.16
17539.300000	54.89	---	150.0	V	330.0	14.3	74.00	19.11

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal

Date: 20.JUL.2021 00:22:10

Vertical

Date: 20.JUL.2021 00:27:56

Tested Model:9290030096 (worst case)**Restricted Bands Emissions Test:**

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

802.11b Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2390.000000	48.27	---	200.0	H	65.0	3.8	74.00	25.73
2390.000000	---	41.51	200.0	H	65.0	3.8	54.00	12.49
High Channel: 2462MHz								
2483.500000	50.81	---	200.0	H	287.0	4.1	74.00	23.19
2483.500000	---	43.15	200.0	H	287.0	4.1	54.00	10.85

802.11g Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2390.000000	57.93	---	150.0	H	0.0	3.8	74.00	16.07
2390.000000	---	48.85	150.0	H	0.0	3.8	54.00	5.15
High Channel: 2462MHz								
2483.500000	59.51	---	150.0	H	325.0	4.1	74.00	14.49
2483.500000	---	51.92	150.0	H	325.0	4.1	54.00	2.08

802.11n-HT20 Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

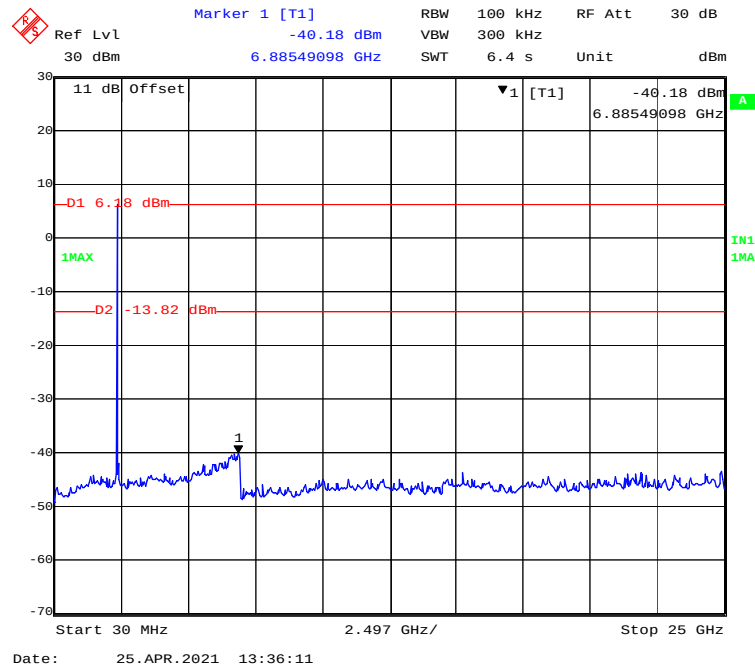
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2390.000000	57.01	---	200.0	H	4.0	3.8	74.00	16.99
2390.000000	---	49.08	200.0	H	4.0	3.8	54.00	4.92
High Channel: 2462MHz								
2483.500000	59.87	---	150.0	H	2.0	4.1	74.00	14.13
2483.500000	---	50.94	150.0	H	2.0	4.1	54.00	3.06

802.11n-HT40 Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

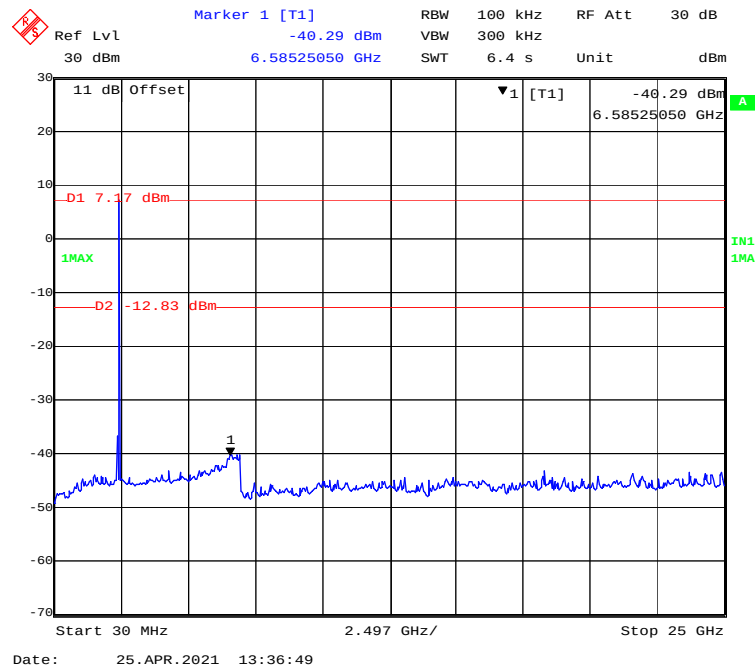
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2422MHz								
2390.00	54.14	---	150.0	H	0.0	3.8	74.00	19.86
2390.00	---	49.23	150.0	H	0.0	3.8	54.00	4.77
High Channel: 2452MHz								
2483.50	57.90	---	150.0	H	358.0	4.1	74.00	16.10
2483.50	---	51.94	150.0	H	358.0	4.1	54.00	2.06

Conducted Spurious Emissions at Antenna Port

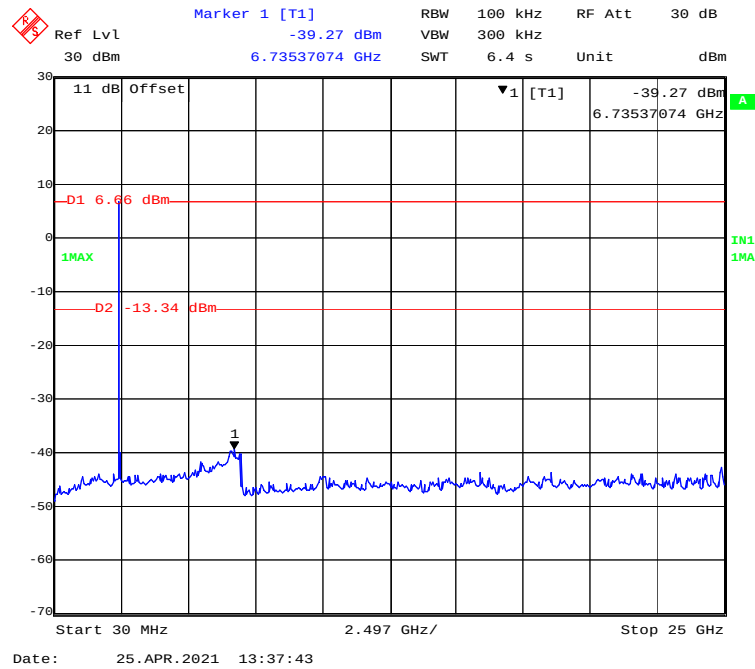
802.11b Mode Low Channel



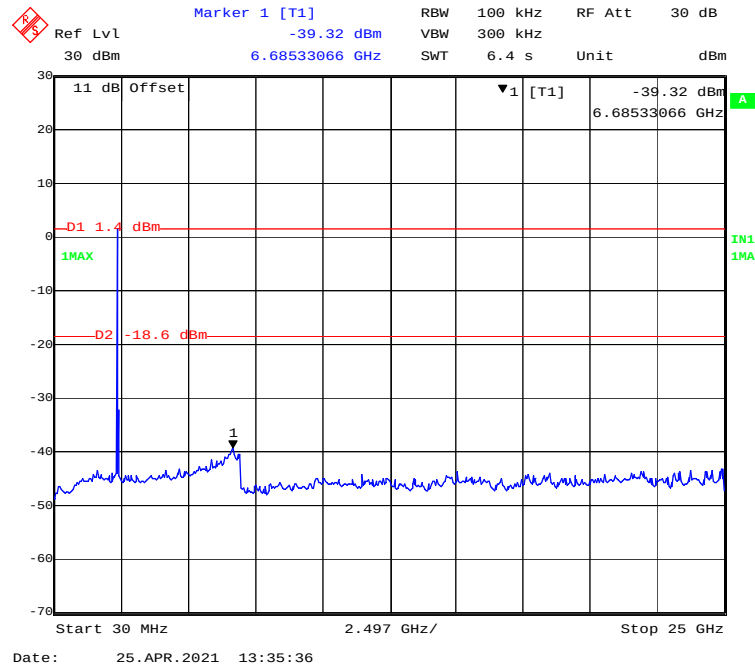
802.11b Mode Middle Channel



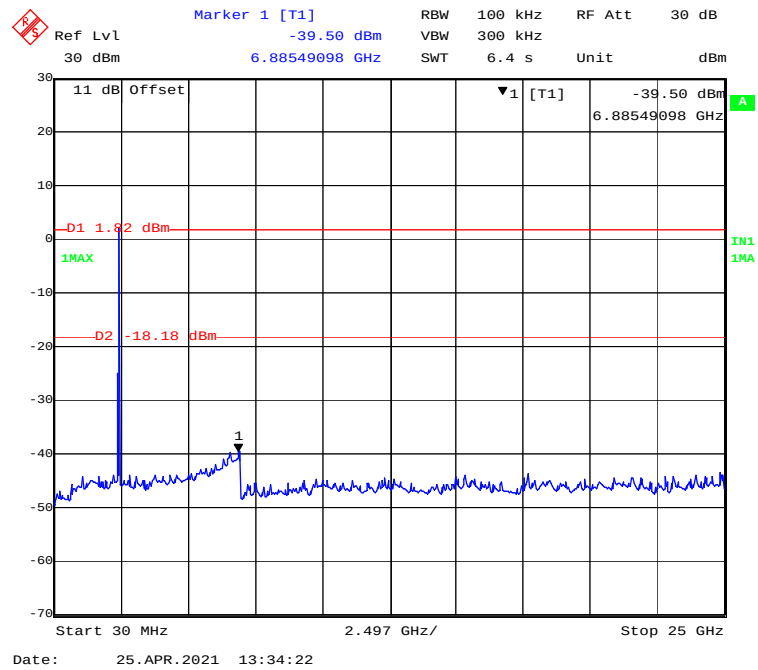
802.11b Mode High Channel



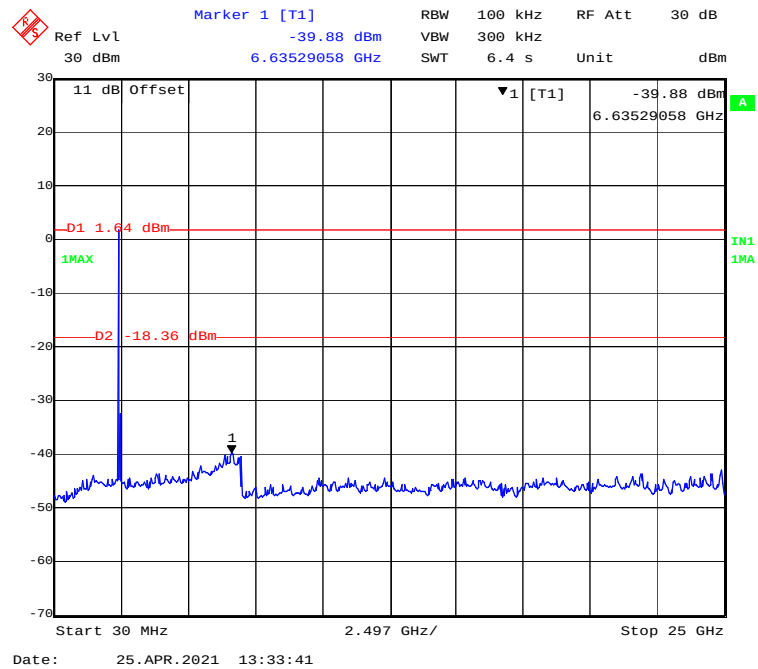
802.11g Mode Low Channel



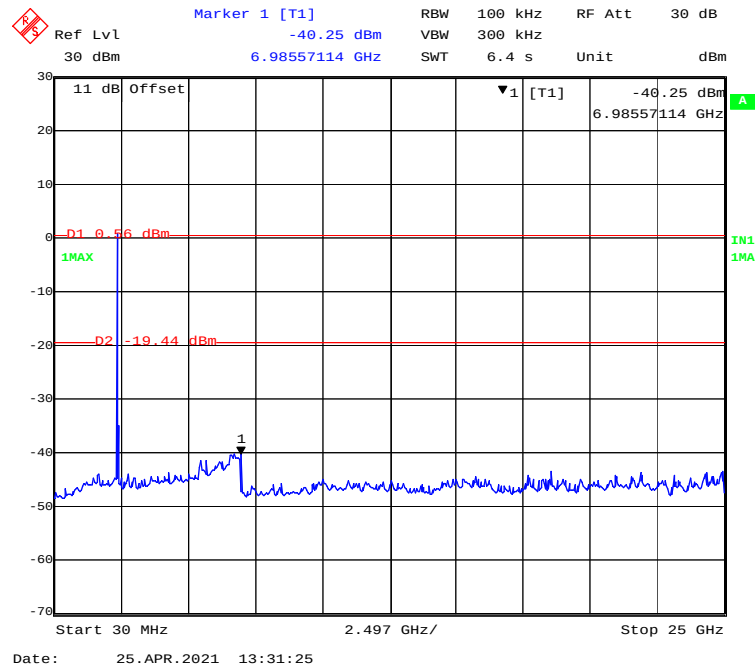
802.11g Mode Middle Channel



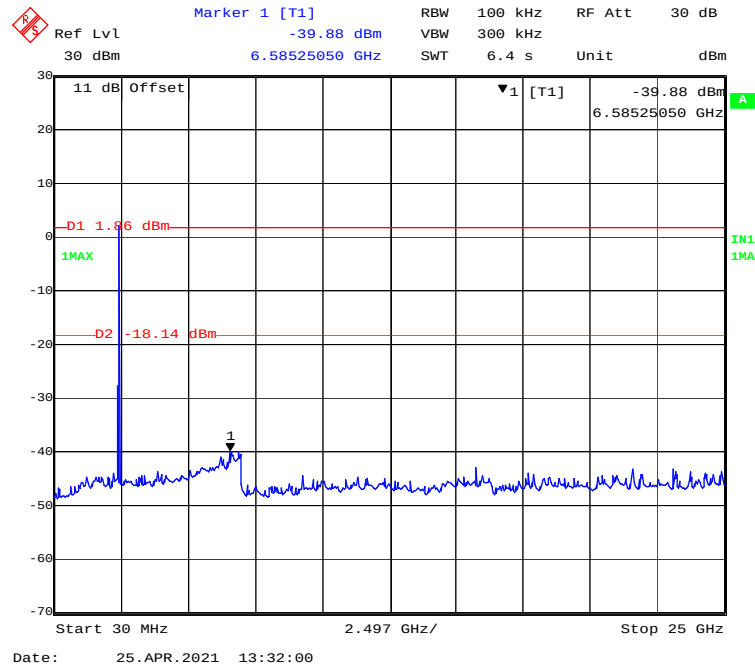
802.11g Mode High Channel



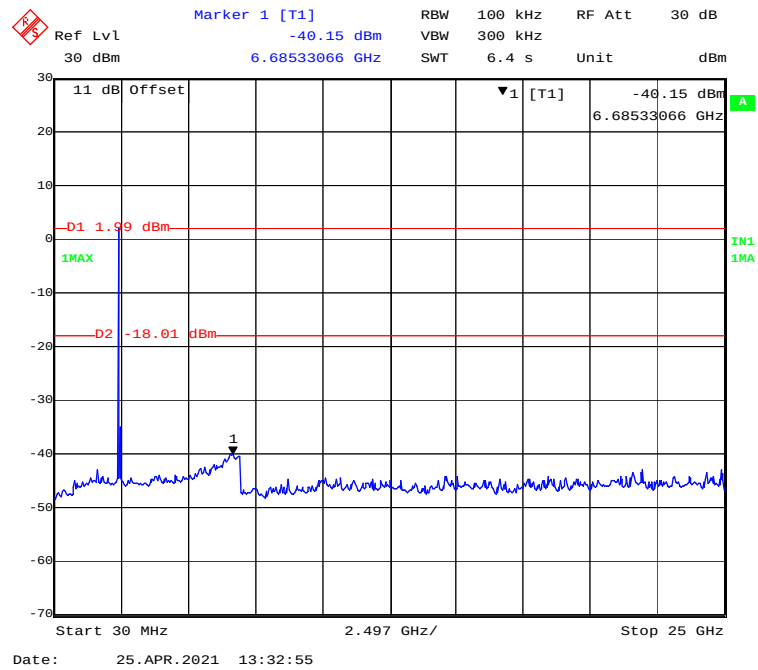
802.11n-HT20 Mode Low Channel



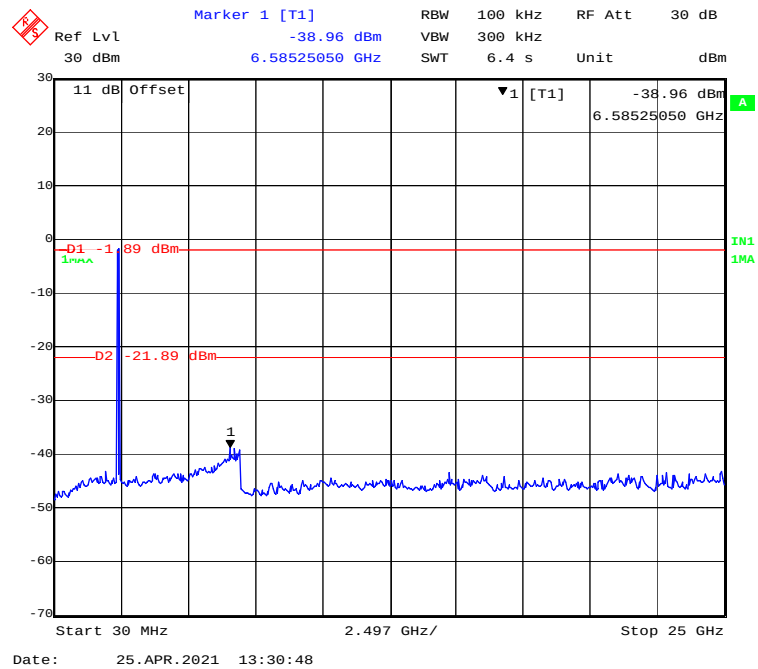
802.11n-HT20 Mode Middle Channel



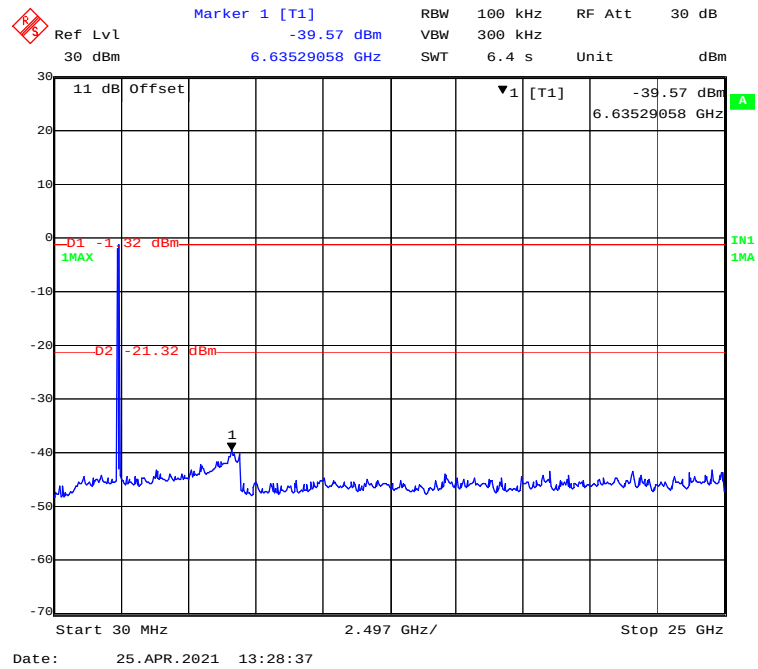
802.11n-HT20 Mode High Channel



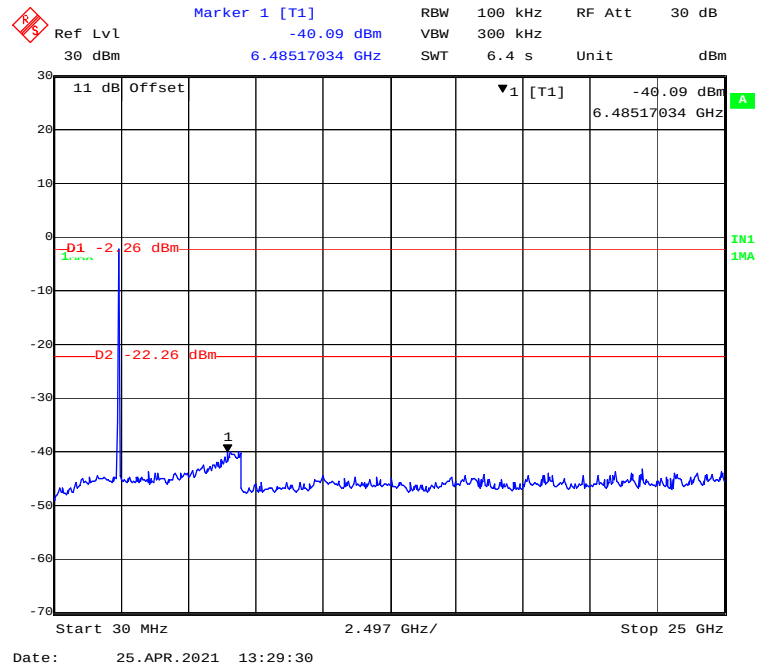
802.11n-HT40 Mode Low Channel



802.11n-HT40 Mode Middle Channel



802.11n-HT40 Mode High Channel



FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

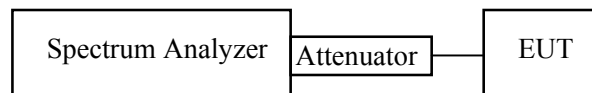
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data**Environmental Conditions**

Temperature:	24.6 °C
Relative Humidity:	48%
ATM Pressure:	101.5 kPa

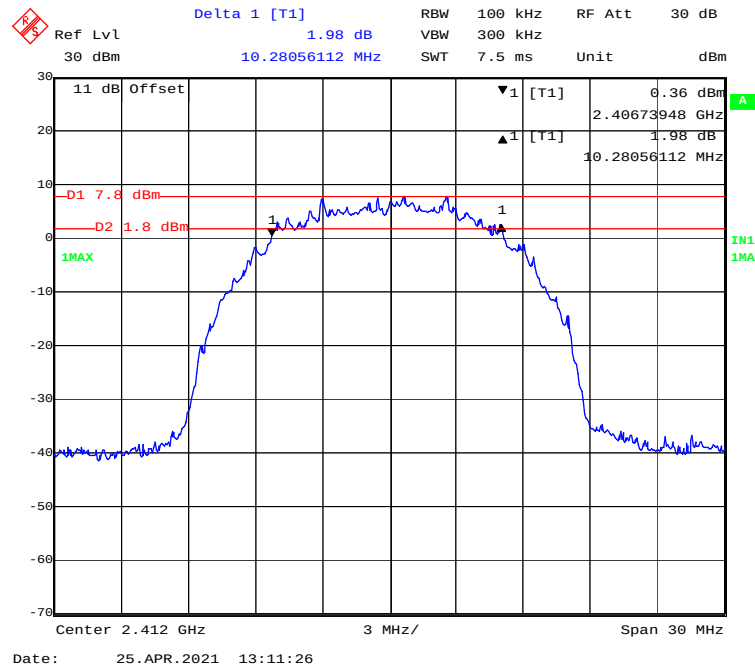
The testing was performed by Miller Xie on 2021-04-25.

Test Result: Compliant.

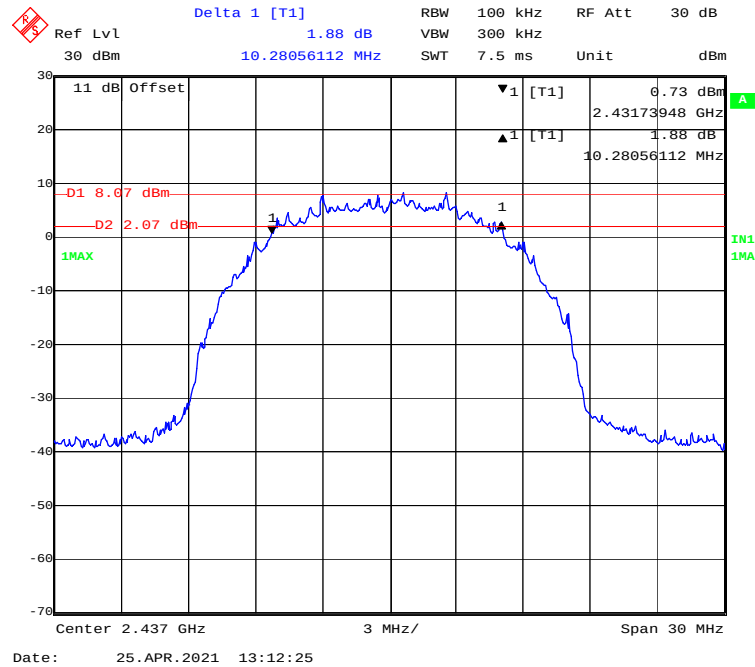
EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b Mode			
Low	2412	10.28	≥ 0.5
Middle	2437	10.28	≥ 0.5
High	2462	10.28	≥ 0.5
802.11g Mode			
Low	2412	16.47	≥ 0.5
Middle	2437	16.47	≥ 0.5
High	2462	16.47	≥ 0.5
802.11n-HT20 Mode			
Low	2412	17.19	≥ 0.5
Middle	2437	17.19	≥ 0.5
High	2462	17.19	≥ 0.5
802.11n-HT40 Mode			
Low	2422	32.95	≥ 0.5
Middle	2437	32.95	≥ 0.5
High	2452	32.95	≥ 0.5

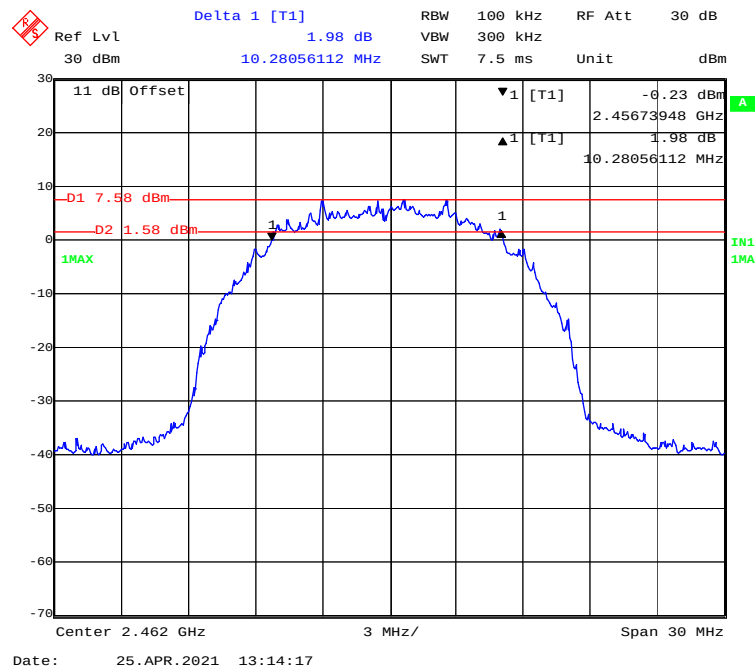
802.11b Mode Low Channel



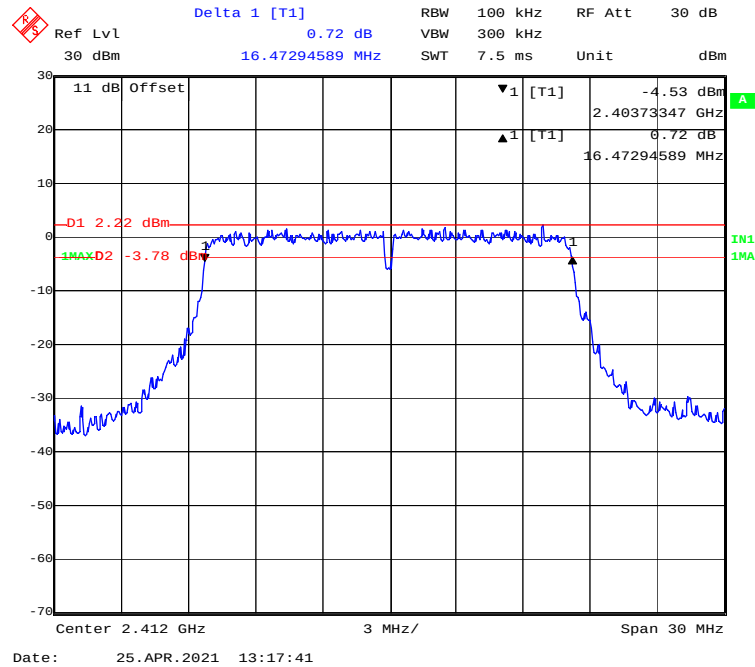
802.11b Mode Middle Channel



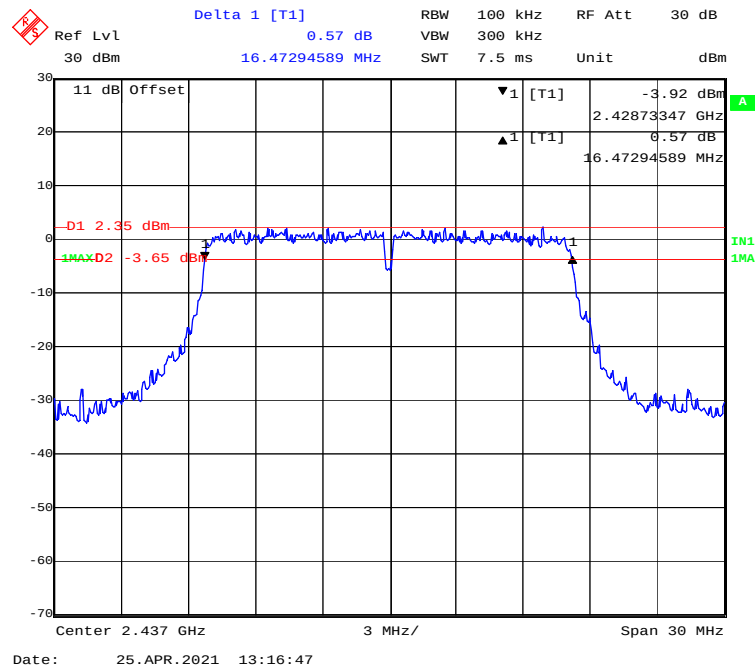
802.11b Mode High Channel



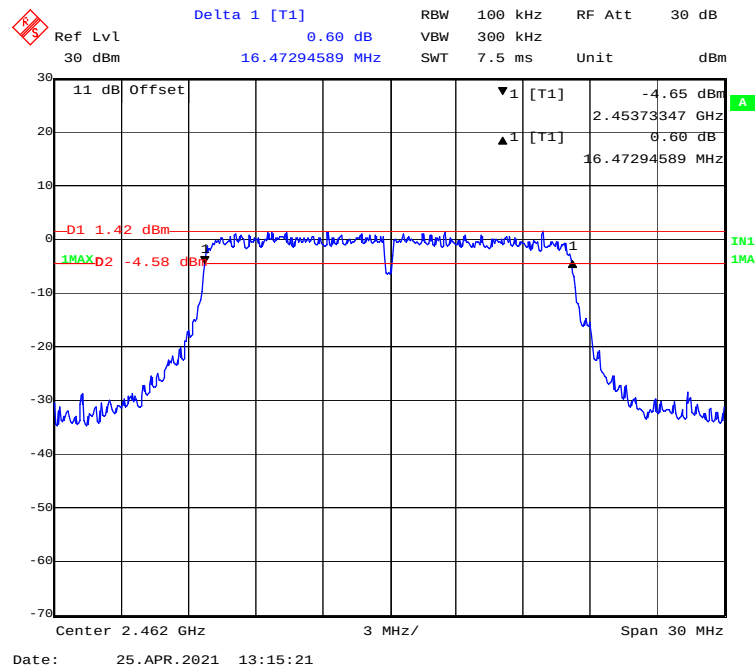
802.11g Mode Low Channel



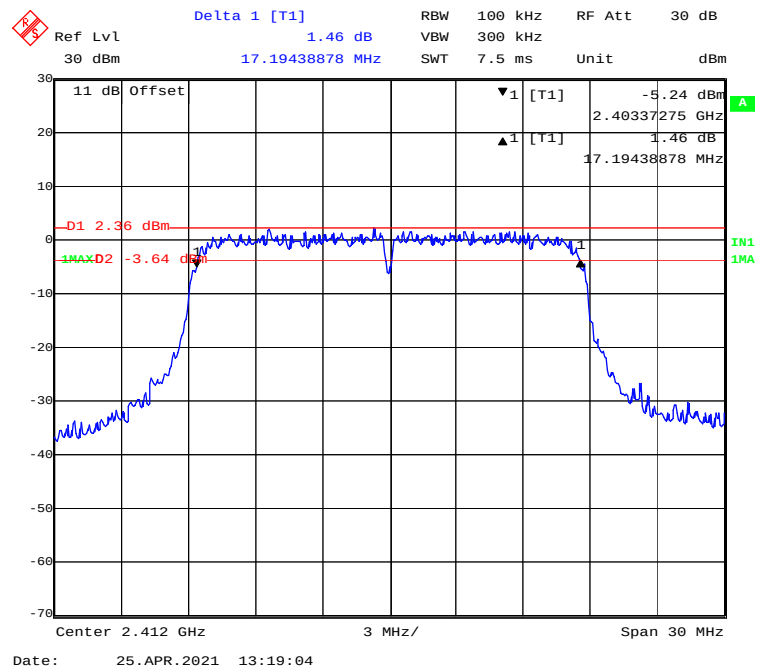
802.11g Mode Middle Channel



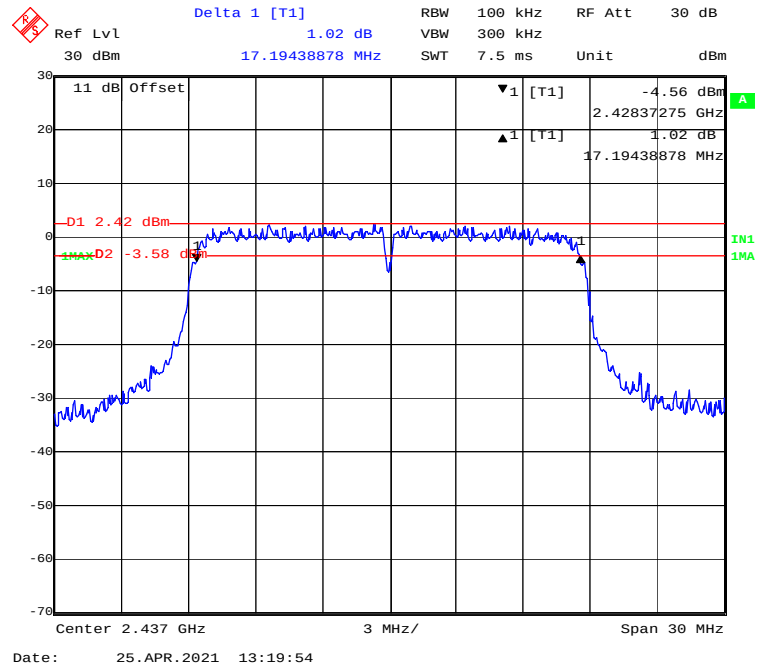
802.11g Mode High Channel



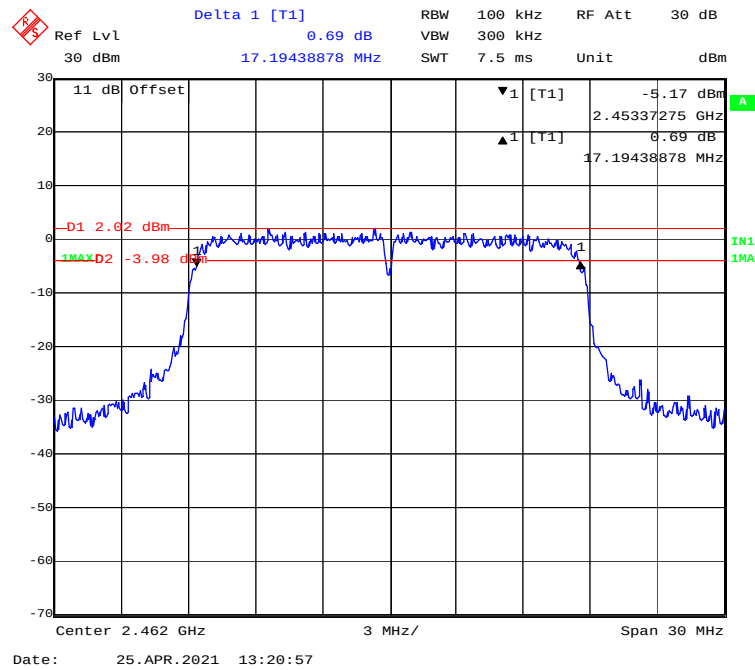
802.11n-HT20 Mode Low Channel



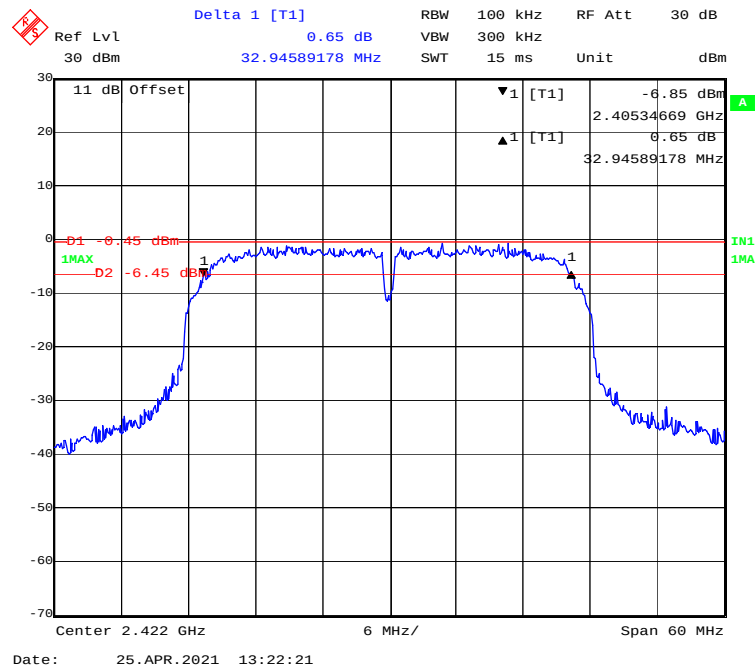
802.11n-HT20 Mode Middle Channel



802.11n-HT20 Mode High Channel



802.11n-HT40 Mode Low Channel



Delta 1 [T1] 0.50 dB RBW 100 kHz Ref Att 30 dB
 30 dBm 300 kHz SWT 15 ms Unit dBm

11 dB Offset

▼1 [T1] -7.44 dBm
 ▲1 [T1] 2.42022645 GHz
 0.50 dB
 32.94589178 MHz

D1 -6.62 dBm
 1MAX
 D2 -6.62 dBm
 1
 1

Center 2.437 GHz 6 MHz/ Span 60 MHz

Date: 25. APR. 2021 13:23:16

Delta 1 [T1] -0.88 dB

RBW 100 kHz RF Att 30 dB

30 dBm 30 dBm Unit dBm

32.94589178 MHz

11 dB Offset

▼1 [T1] -6.35 dBm

▲1 [T1] -0.88 dB

2.43522645 GHz

32.94589178 MHz

D1 -0.45 dBm

1MAX

D2 -6.45 dBm

IN1

IMA

Center 2.452 GHz

6 MHz/

Span 60 MHz

Date: 25.APR.2021 13:24:37

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

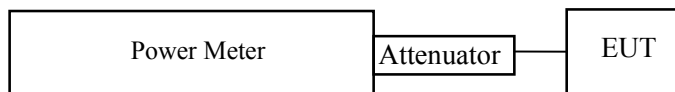
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

For Wi-Fi:

According to ANSI C63.10-2013 sub-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.



Test Data**Environmental Conditions**

Temperature:	25.0 °C
Relative Humidity:	48 %
ATM Pressure:	101.1 kPa

The testing was performed by Miller Xie on 2021-04-25.

Test Result: Compliant.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
802.11b Mode				
Low	2412	23.50	30	Pass
Middle	2437	23.90	30	Pass
High	2462	23.23	30	Pass
802.11g Mode				
Low	2412	21.67	30	Pass
Middle	2437	22.05	30	Pass
High	2462	21.60	30	Pass
802.11n-HT20 Mode				
Low	2412	21.76	30	Pass
Middle	2437	21.85	30	Pass
High	2462	21.87	30	Pass
802.11n-HT40 Mode				
Low	2422	22.03	30	Pass
Middle	2437	21.28	30	Pass
High	2452	21.21	30	Pass

FCC §15.247(d) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

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) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2013 sub-clause 6.10.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data**Environmental Conditions**

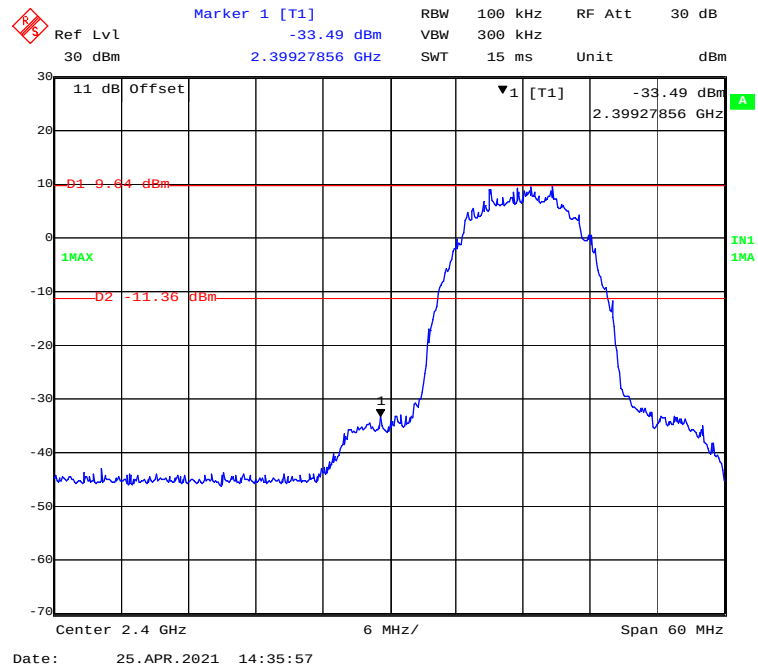
Temperature:	24.6 °C
Relative Humidity:	48 %
ATM Pressure:	101.1 kPa

The testing was performed by Miller Xie on 2021-04-25.

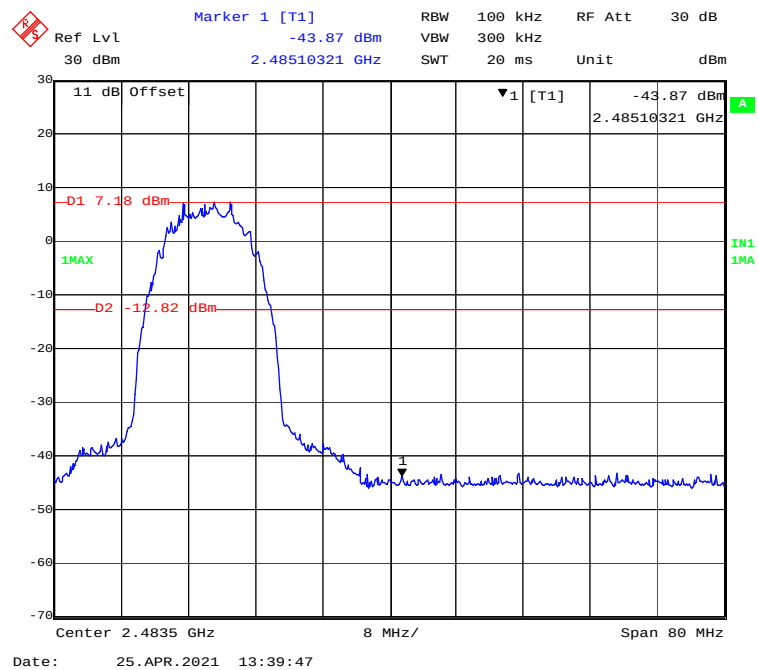
Test Result: Compliant.

EUT operation mode: Transmitting

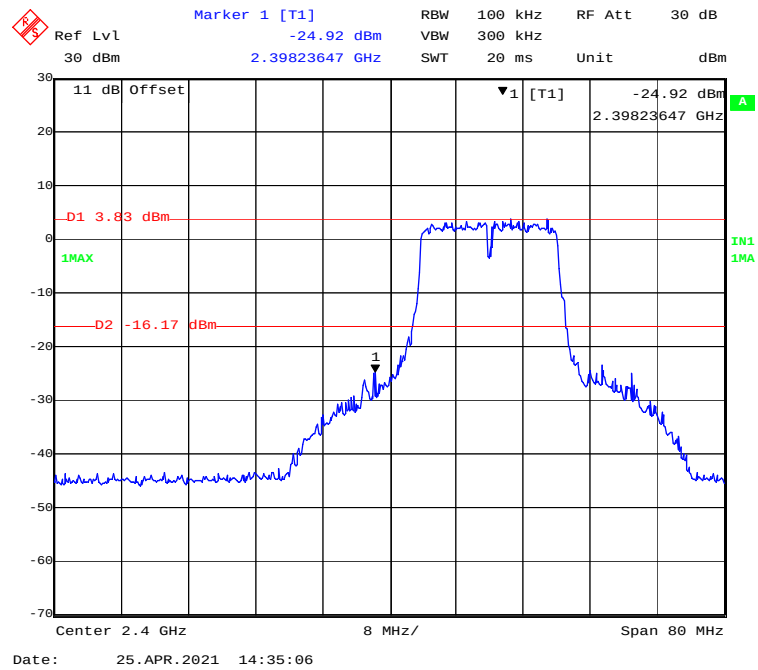
802.11b Mode Left Side



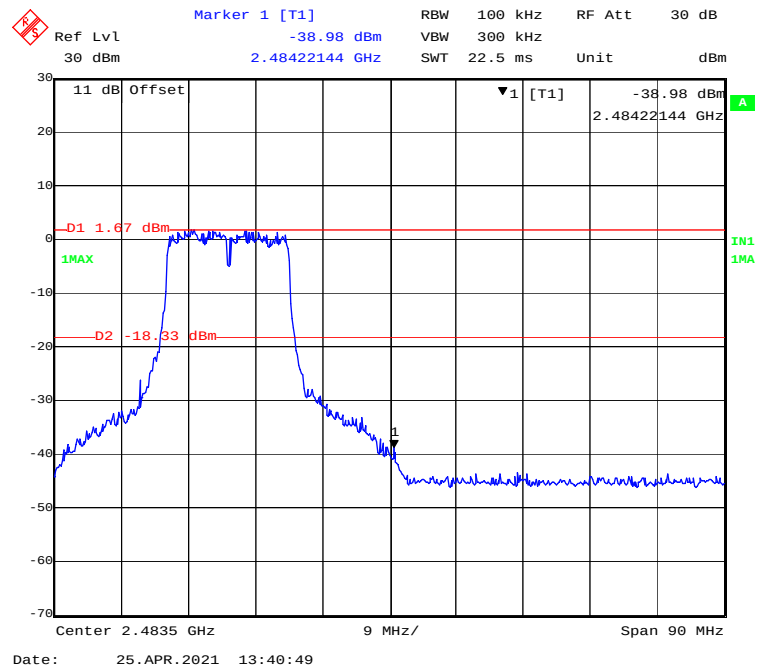
802.11b Mode Right Side



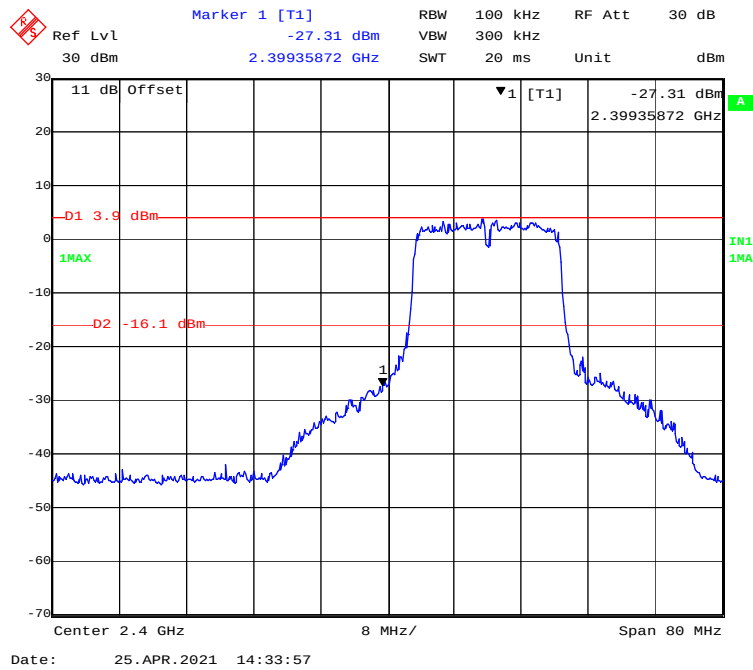
802.11g Mode Left Side



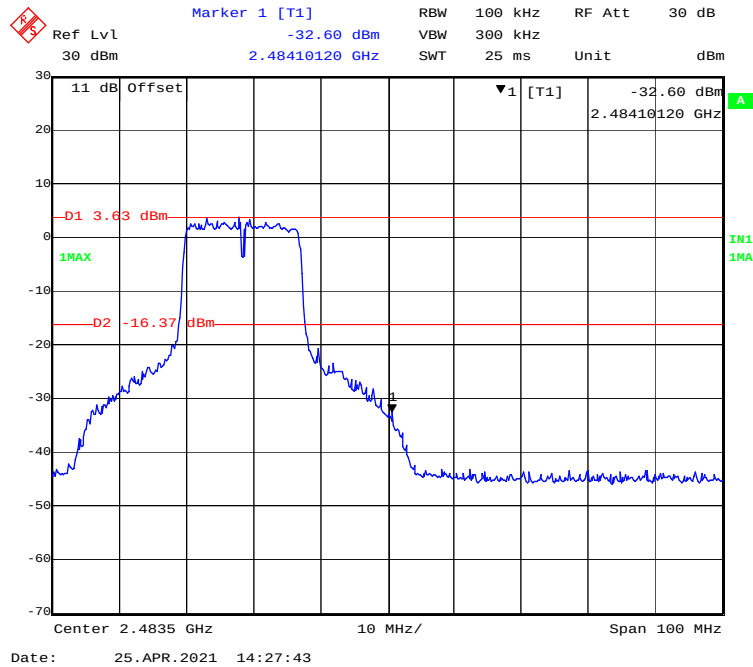
802.11g Mode Right Side



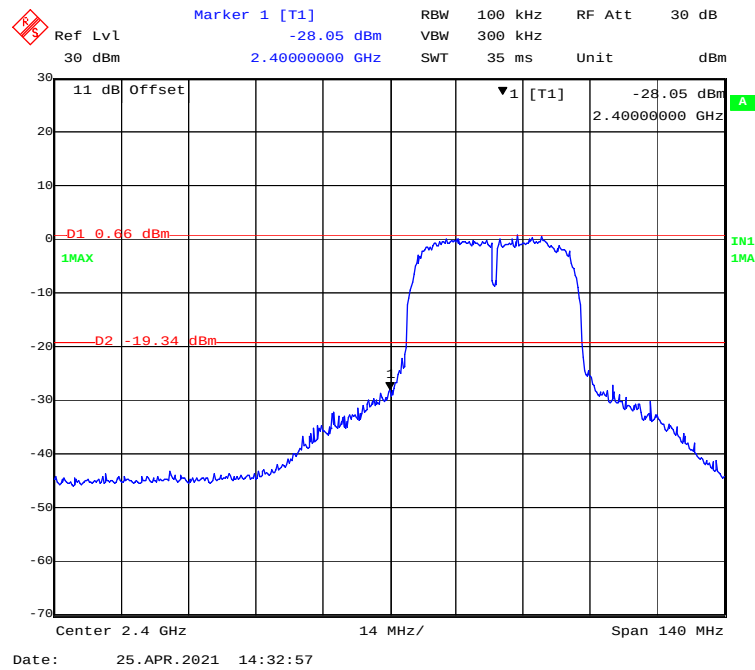
802.11n-HT20 Mode Left Side



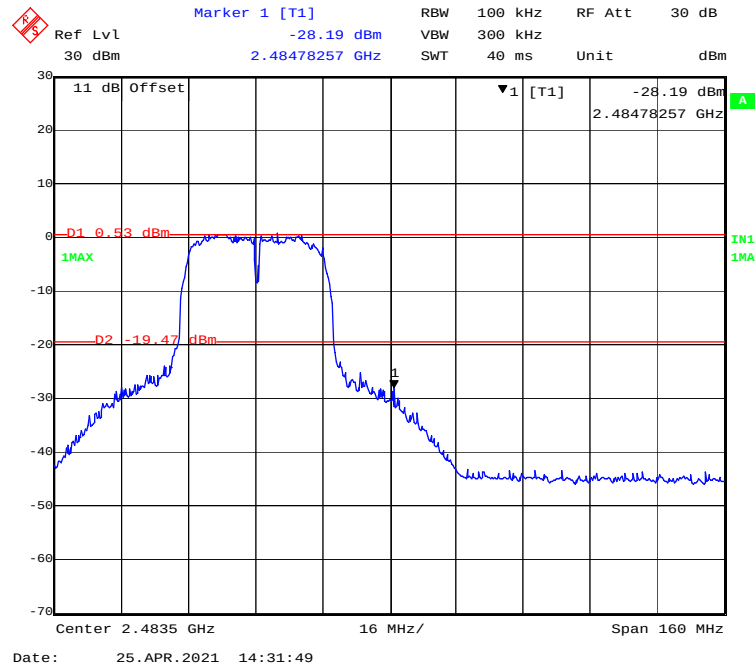
802.11n-HT20 Mode Right Side



802.11n-HT40 Mode Left Side



802.11n-HT40 Mode Right Side



FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

1. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
2. Set the VBW $\geq 3 * \text{RBW}$.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Data**Environmental Conditions**

Temperature:	24.6 °C
Relative Humidity:	48 %
ATM Pressure:	101.1 kPa

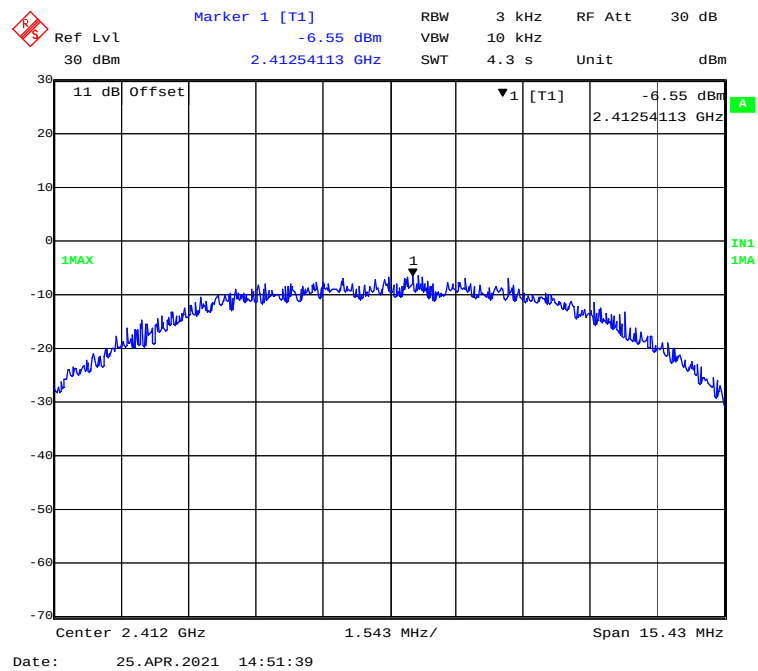
The testing was performed by Miller Xie on 2021-04-25.

Test Result: Compliant.

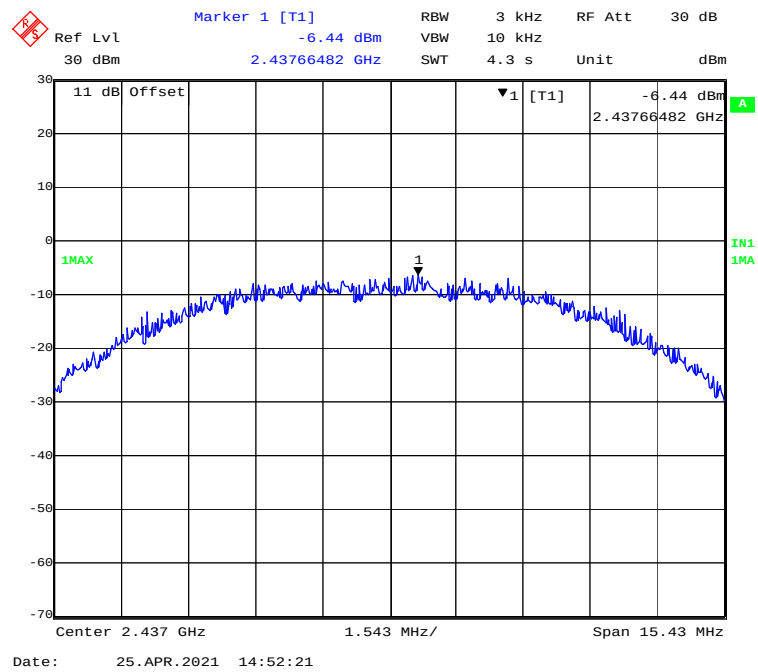
EUT operation mode: Transmitting

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b Mode			
Low	2412	-6.55	≤8
Middle	2437	-6.44	≤8
High	2462	-6.45	≤8
802.11g Mode			
Low	2412	-11.59	≤8
Middle	2437	-11.72	≤8
High	2462	-11.64	≤8
802.11n-HT20 mode			
Low	2412	-11.13	≤8
Middle	2437	-11.35	≤8
High	2462	-10.94	≤8
802.11n-HT40 mode			
Low	2422	-13.00	≤8
Middle	2437	-12.98	≤8
High	2452	-12.70	≤8

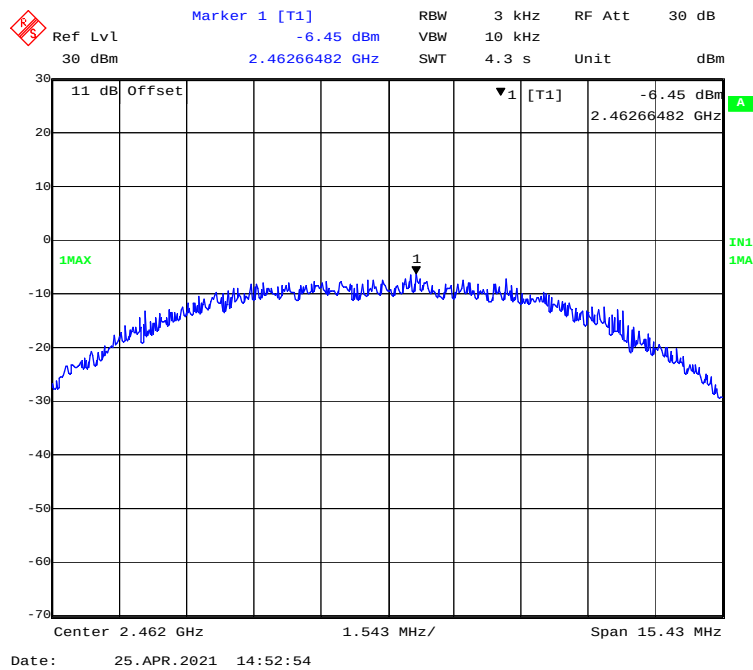
802.11b Mode Low Channel



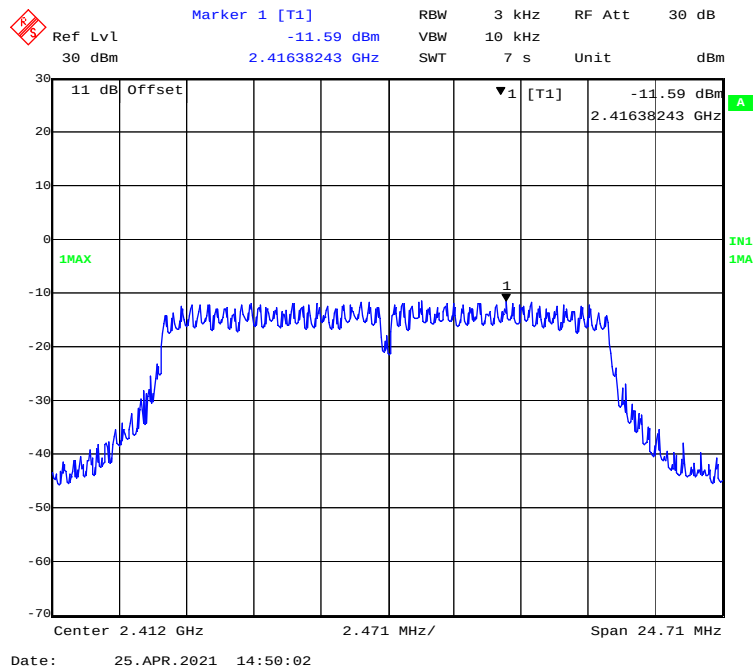
802.11b Mode Middle Channel



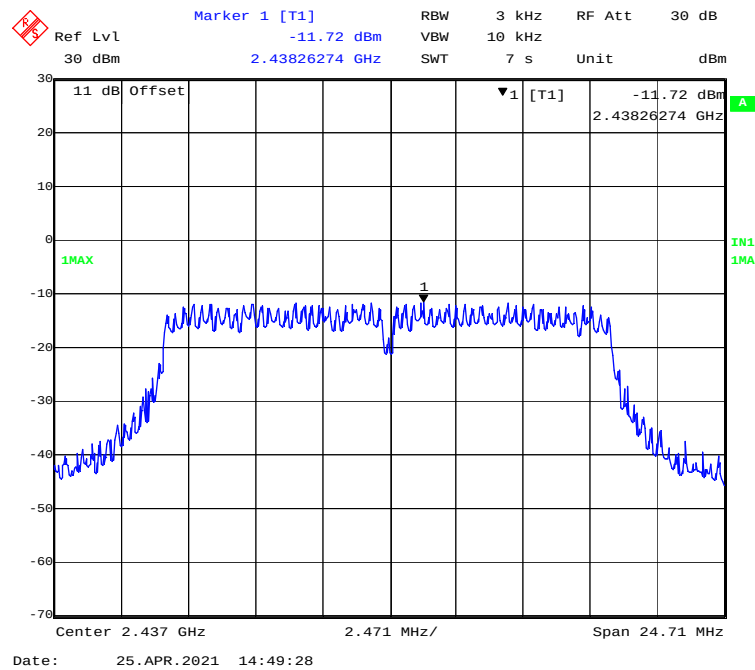
802.11b Mode High Channel



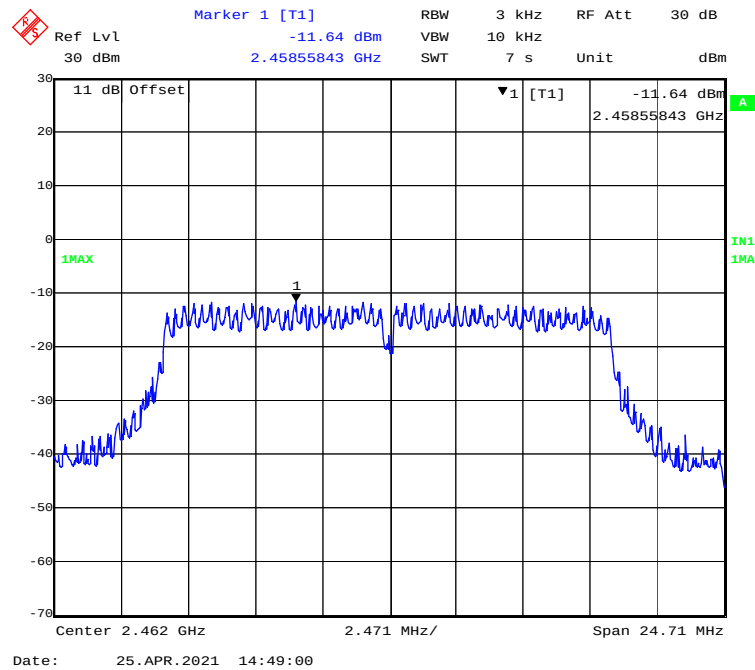
802.11g Mode Low Channel



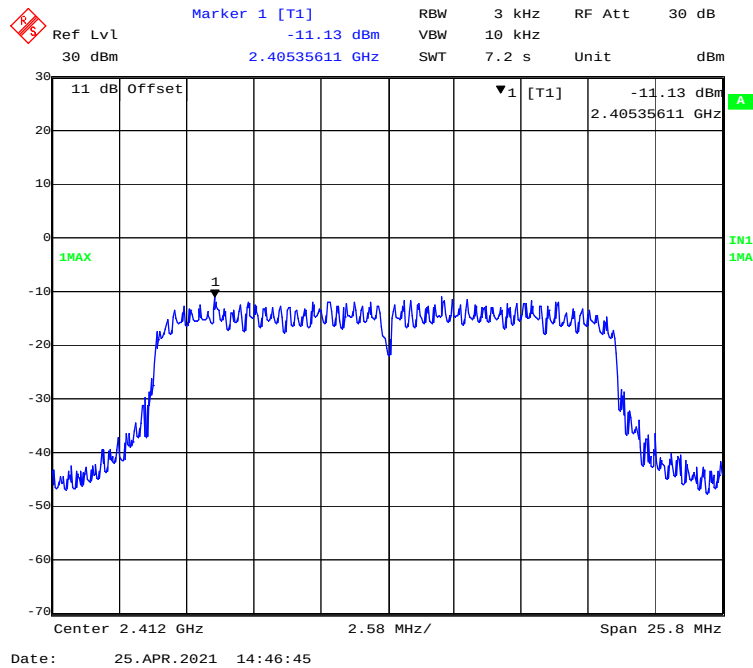
802.11g Mode Middle Channel



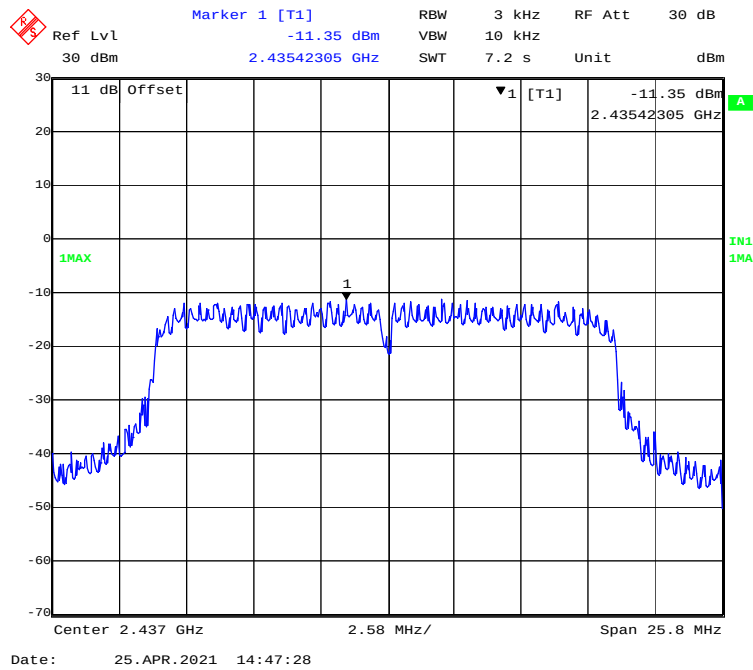
802.11g Mode High Channel



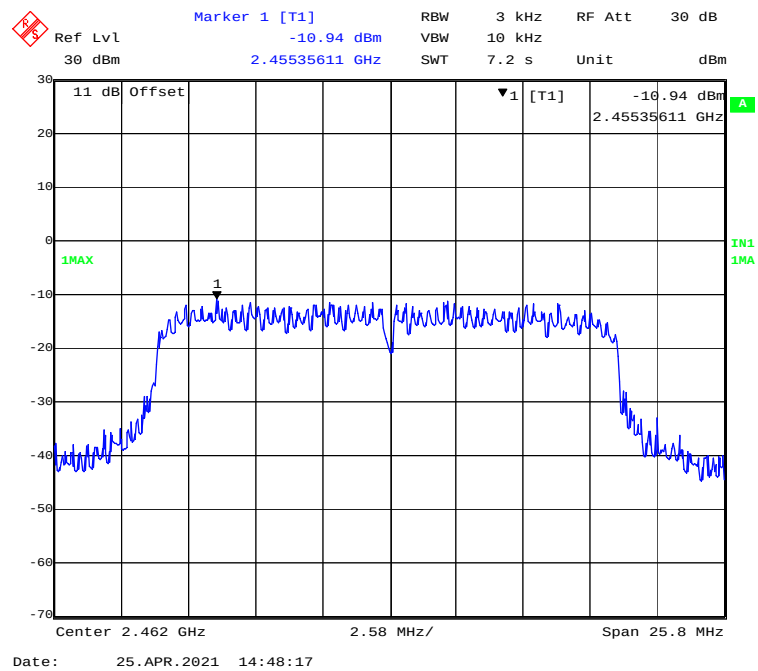
802.11n-HT20 Mode Low Channel



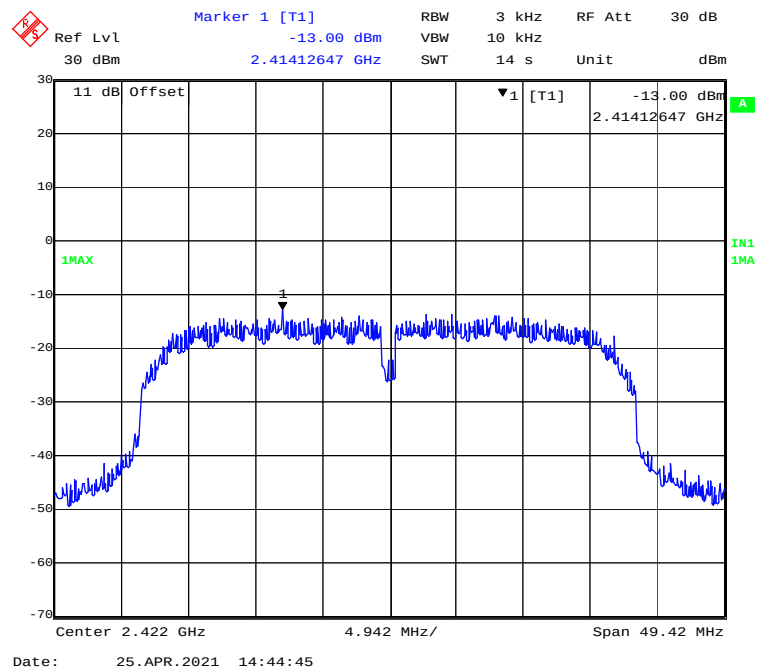
802.11n-HT20 Mode Middle Channel



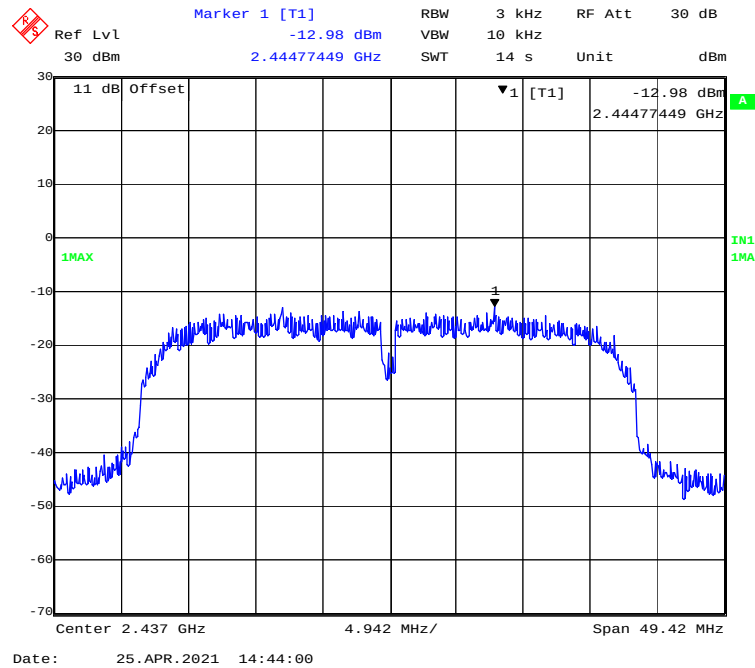
802.11n-HT20 Mode High Channel



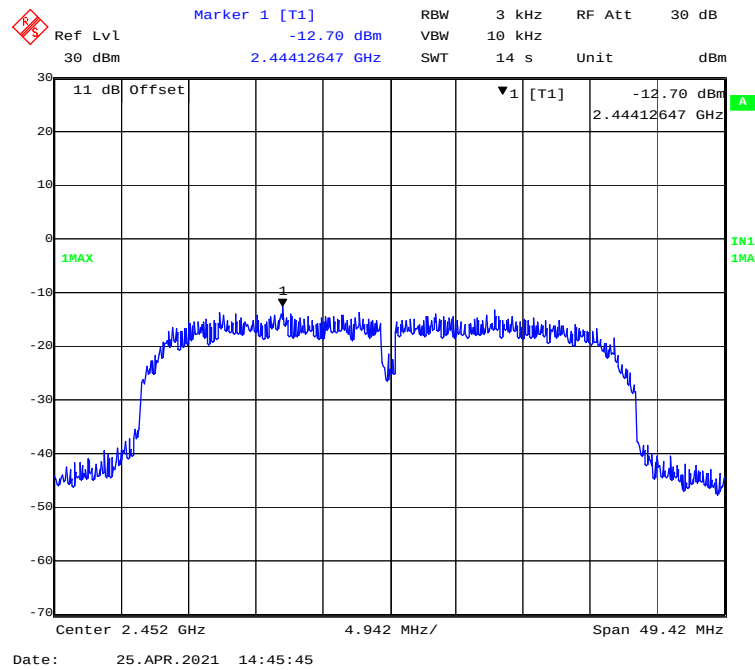
802.11n-HT40 Mode Low Channel



802.11n-HT40 Mode Middle Channel



802.11n-HT40 Mode High Channel



Declarations

1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

5: This report cannot be reproduced except in full, without prior written approval of the Company.

6: This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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