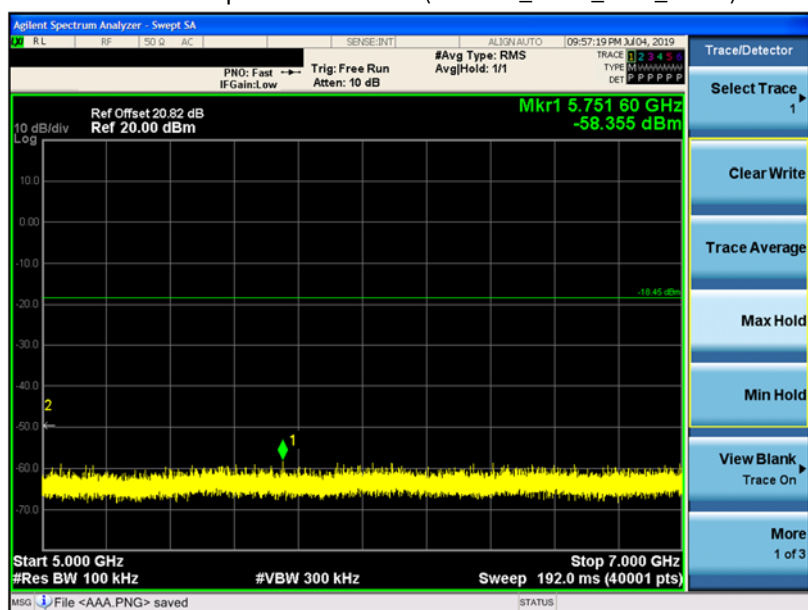
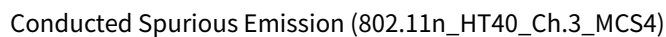
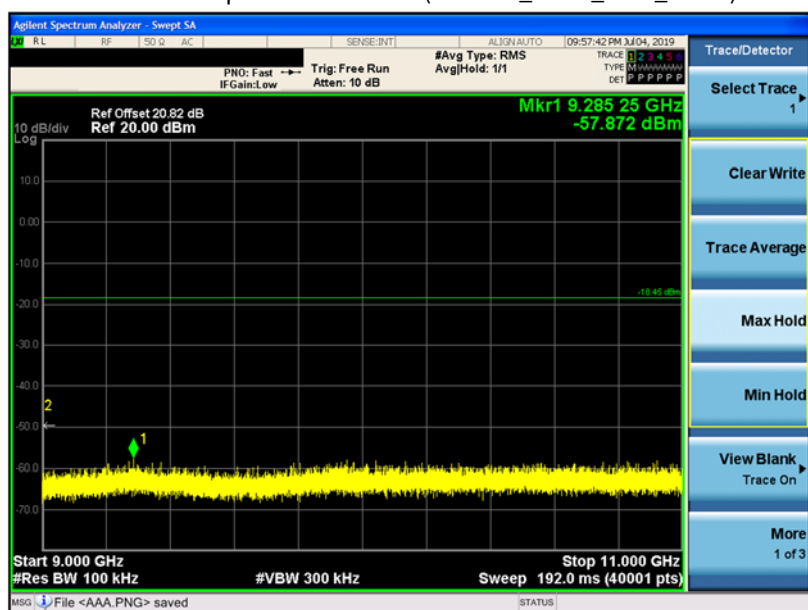
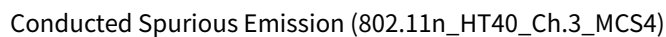


Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)

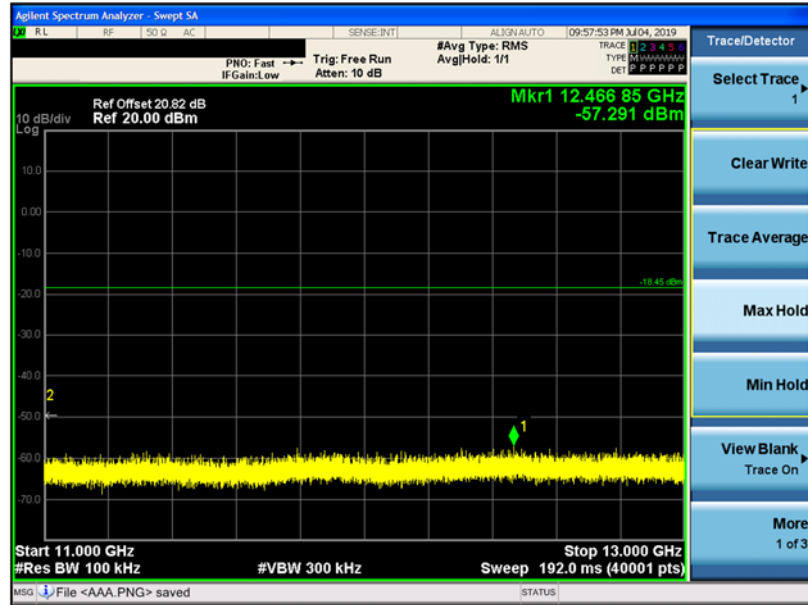


Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



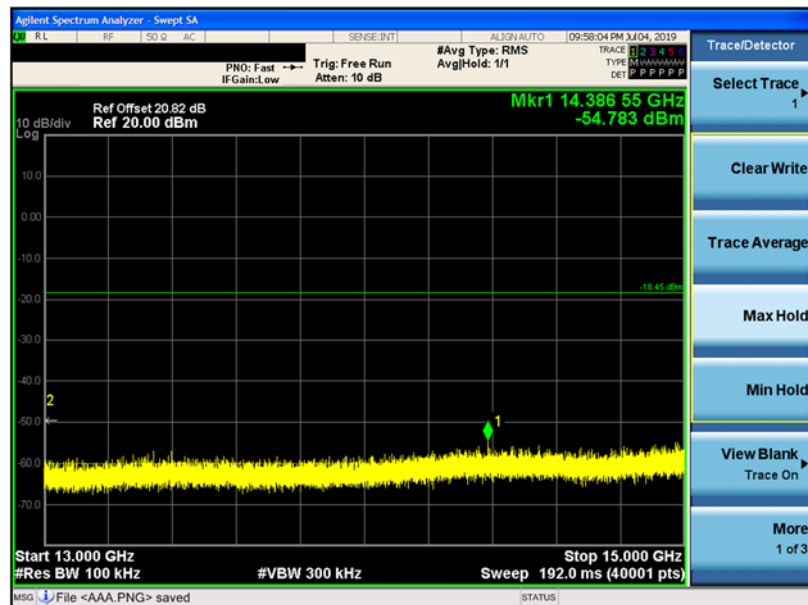
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



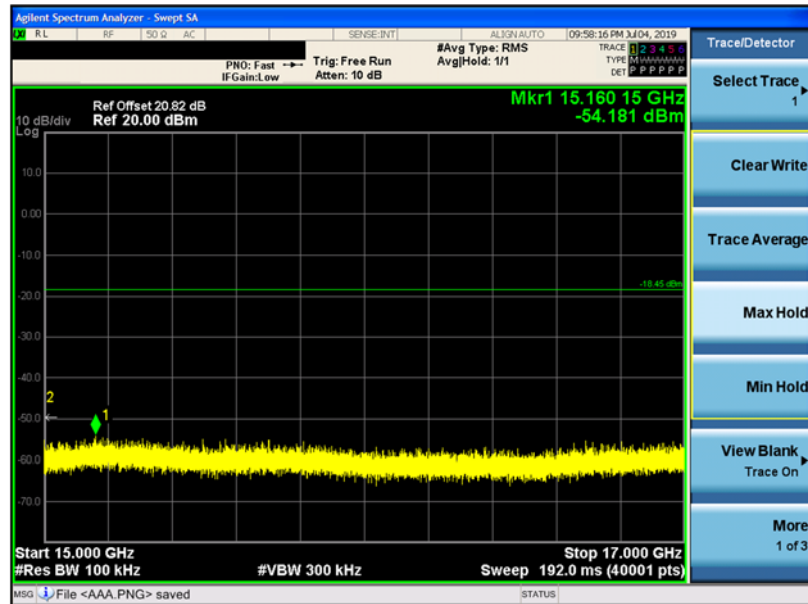
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



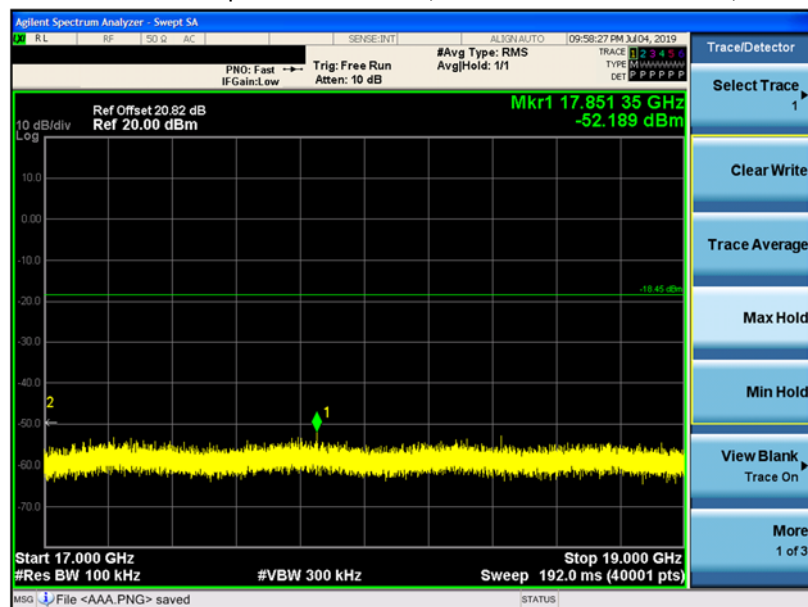
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



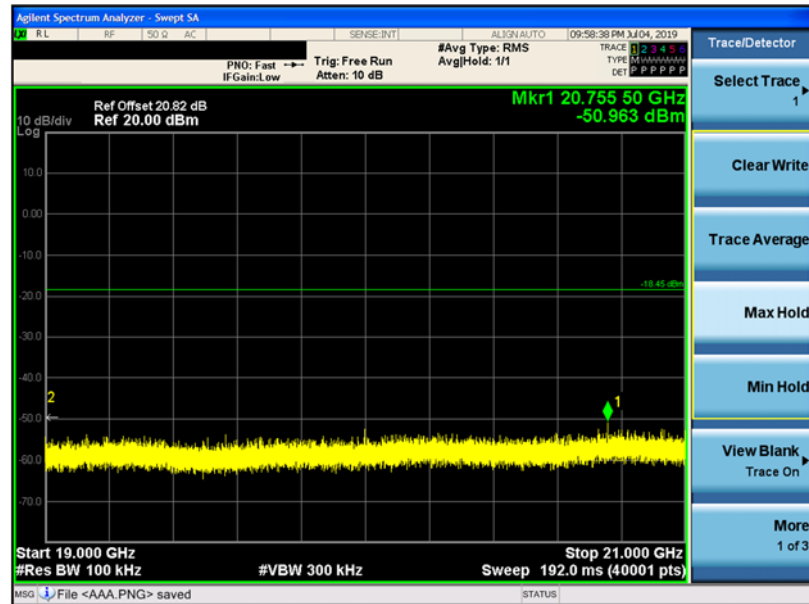
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



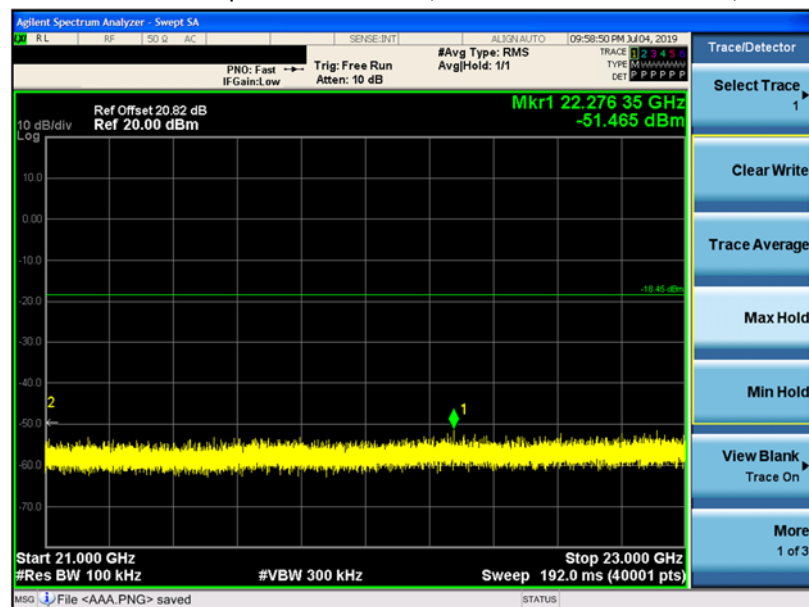
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



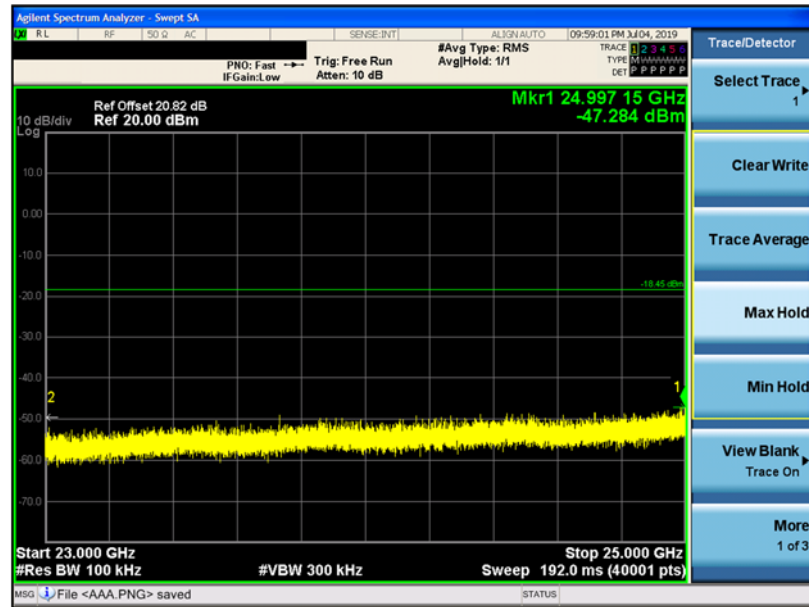
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



23 GHz ~ 25 GHz

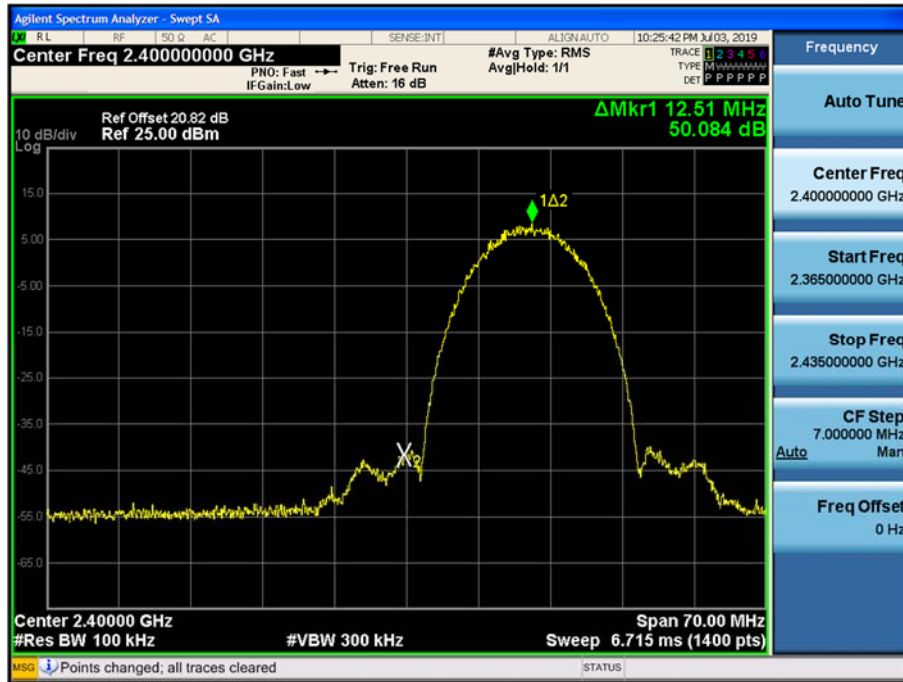
Conducted Spurious Emission (802.11n_HT40_Ch.3_MCS4)



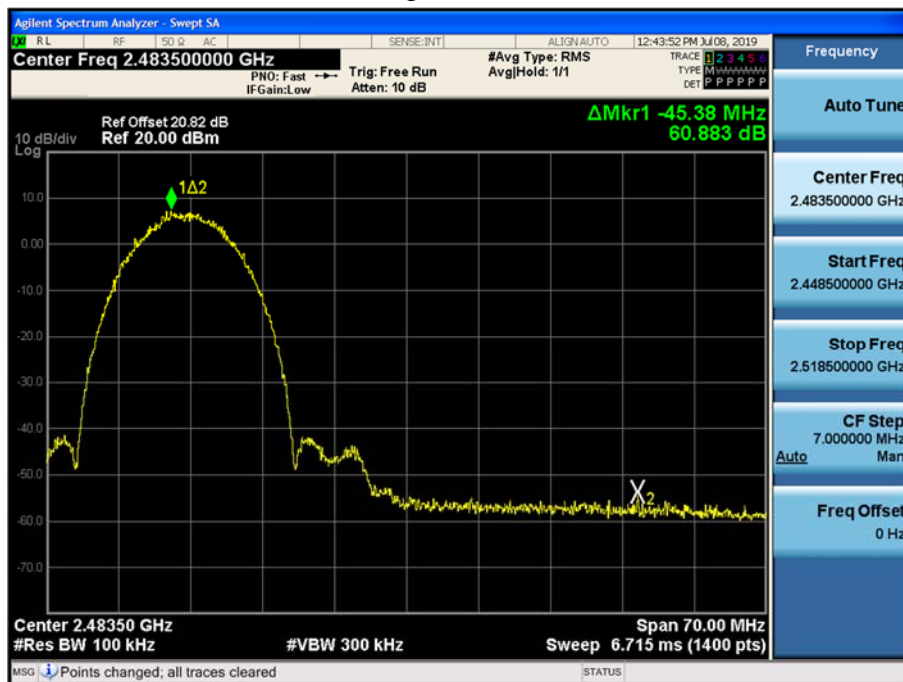
[Ant2]

■ Test Plots(BandEdge)

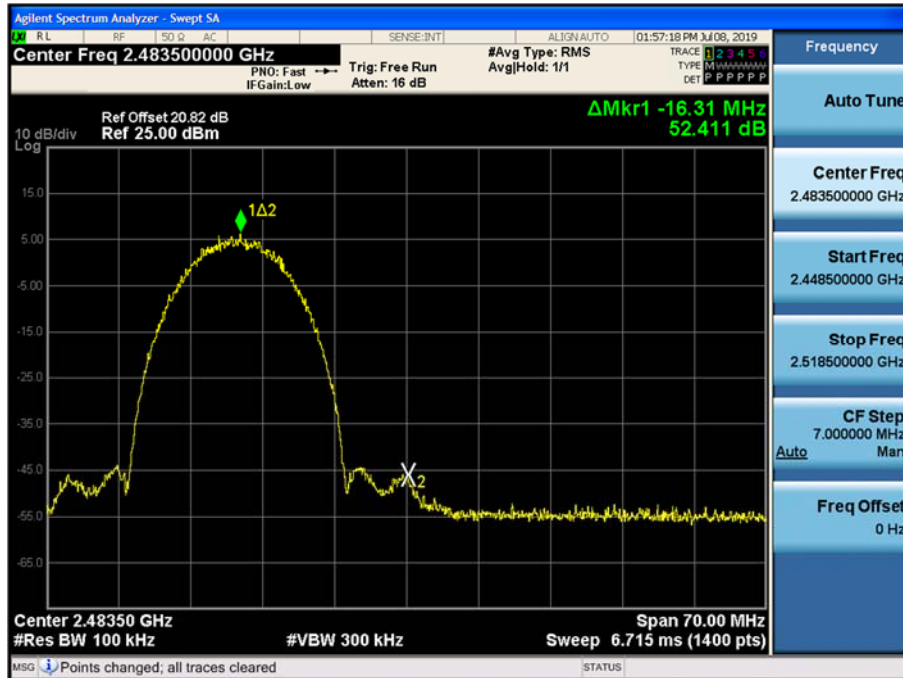
Band Edge (802.11b-CH1)



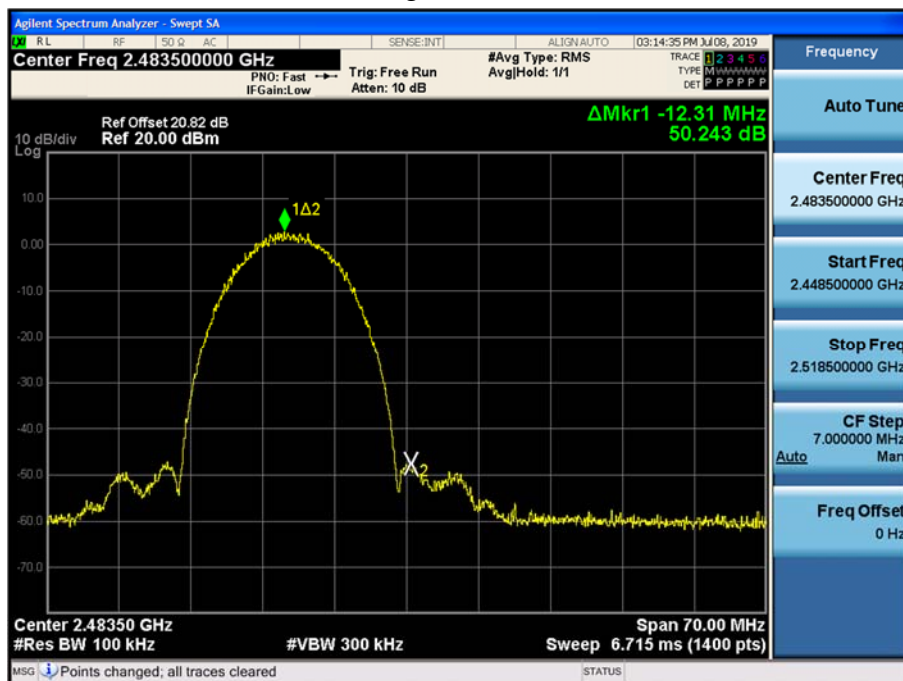
Band Edge (802.11b-CH11)



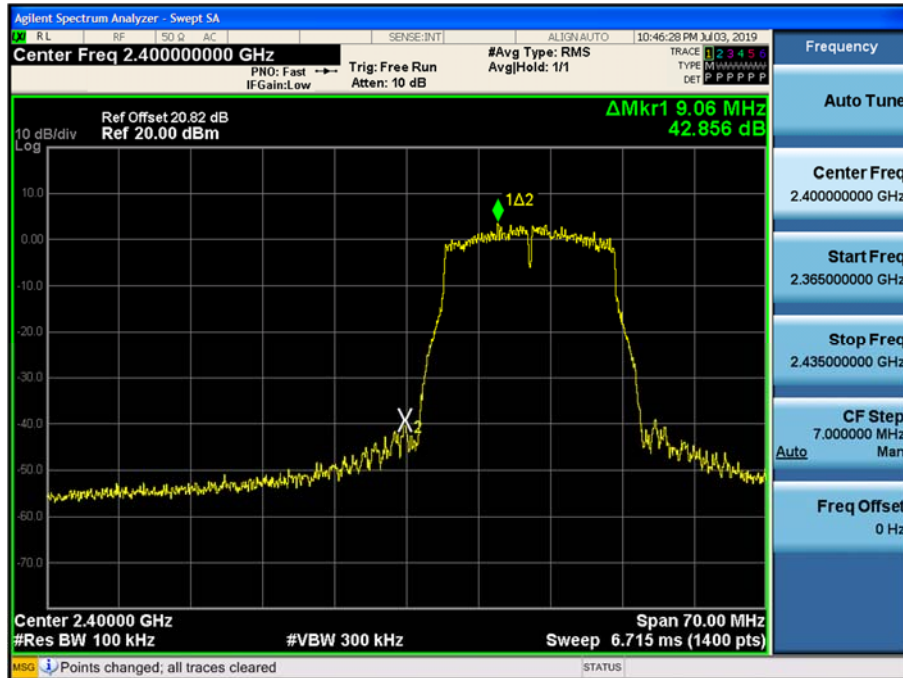
Band Edge (802.11b-CH12)



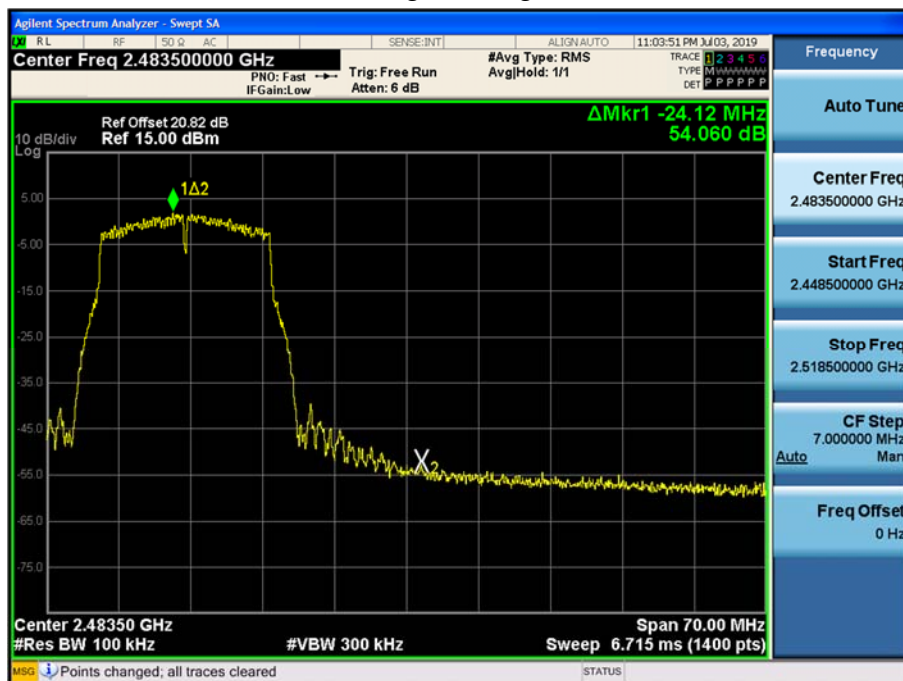
Band Edge (802.11b-CH13)



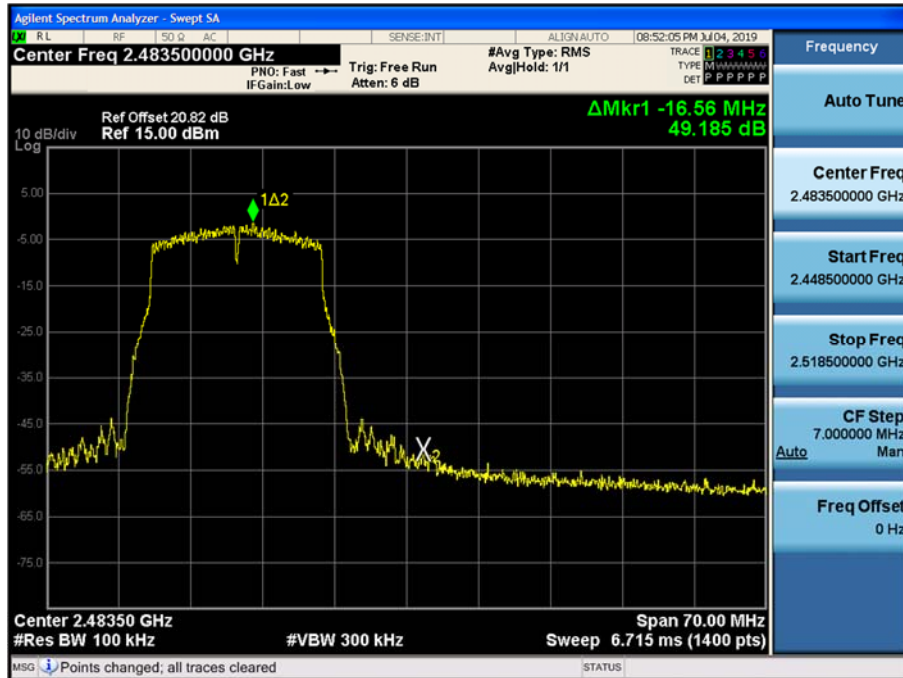
Band Edge (802.11g-CH1)



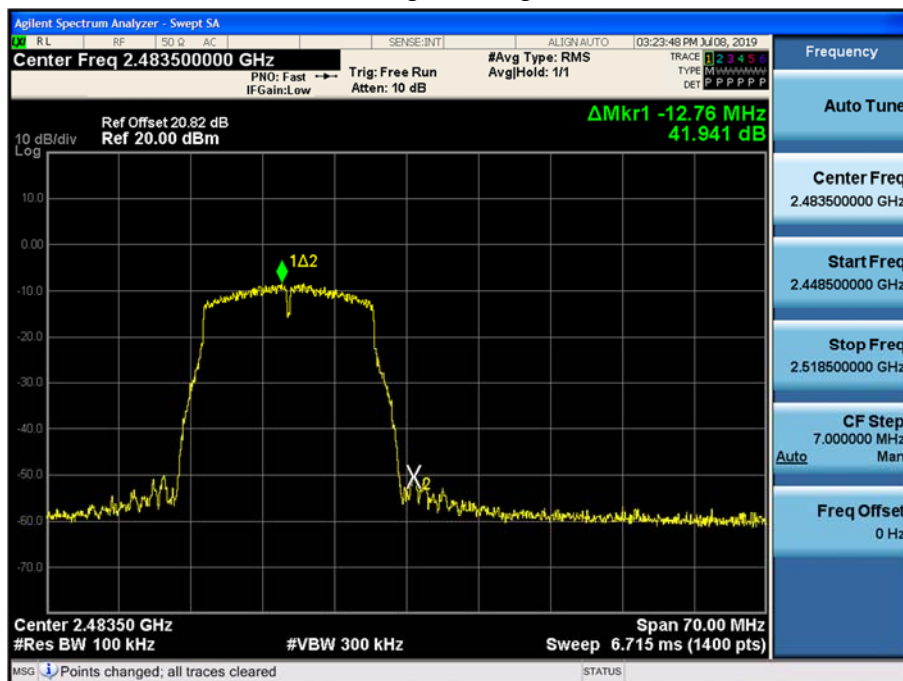
Band Edge (802.11g-CH11)



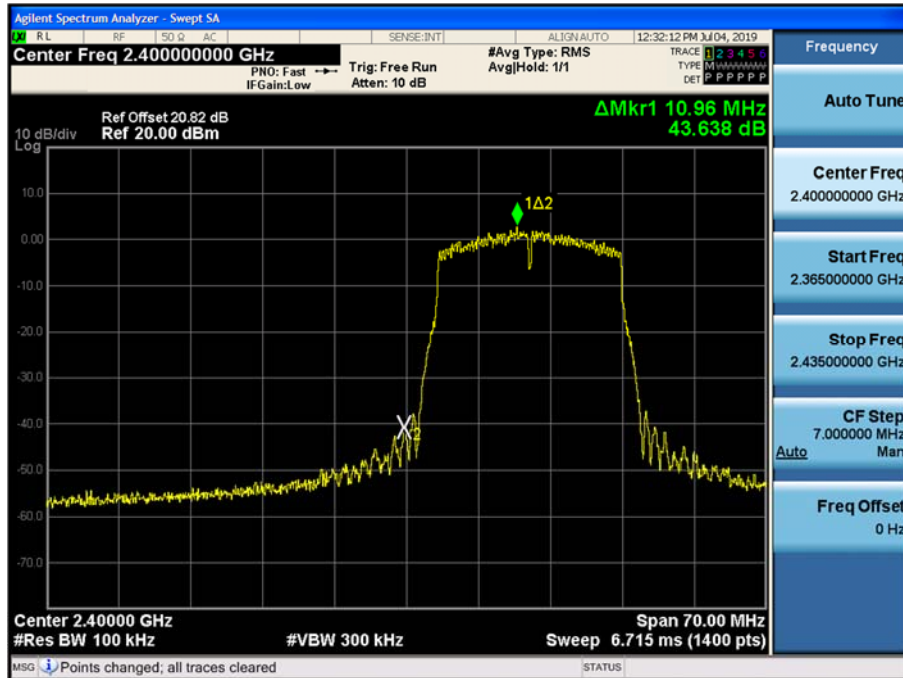
Band Edge (802.11g-CH12)



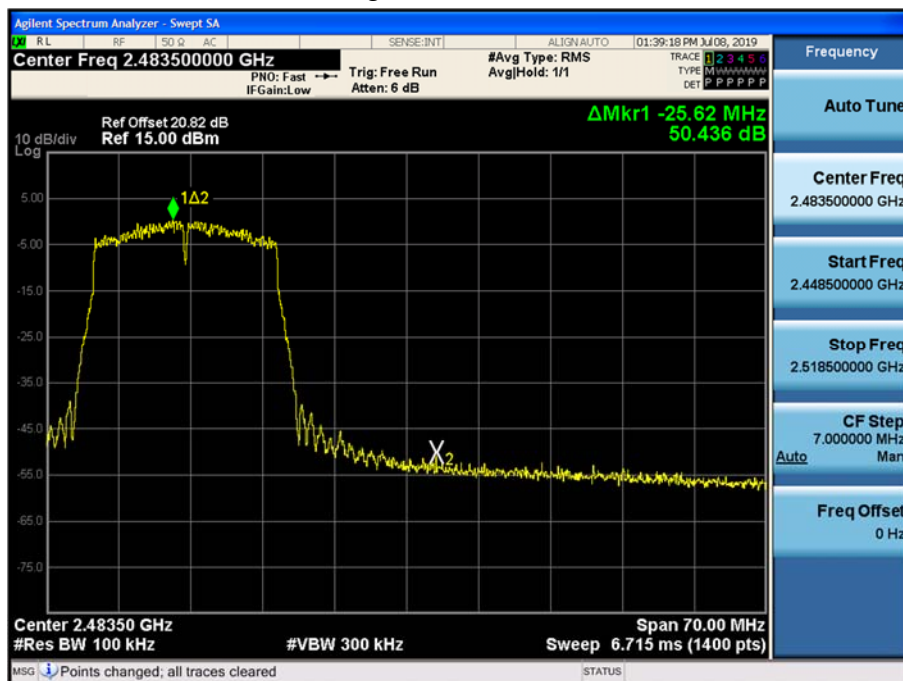
Band Edge (802.11g-CH13)



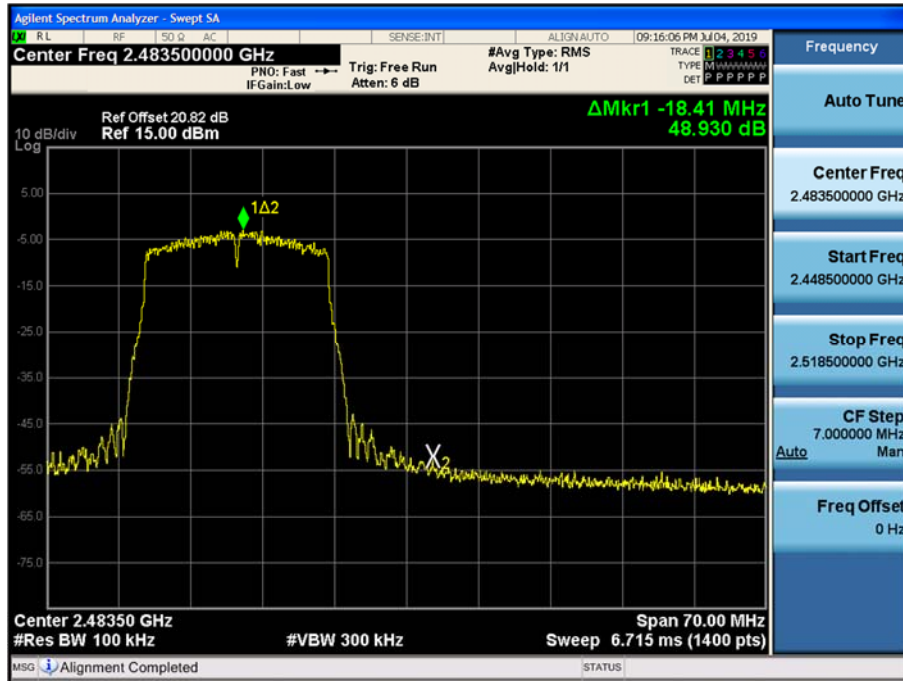
Band Edge (802.11n_HT20 -CH1)



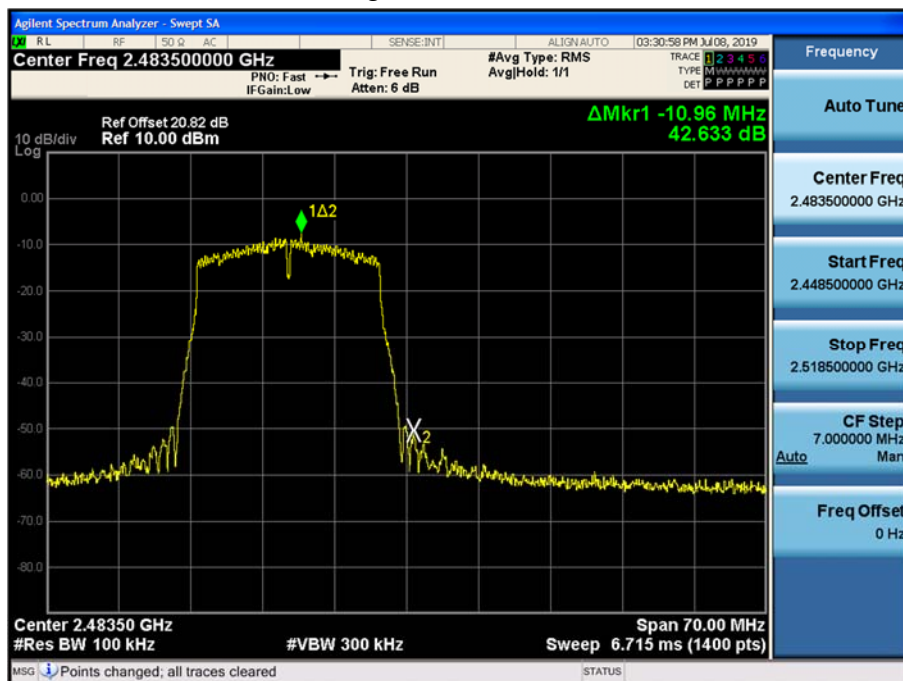
Band Edge (802.11n_HT20 -CH11)



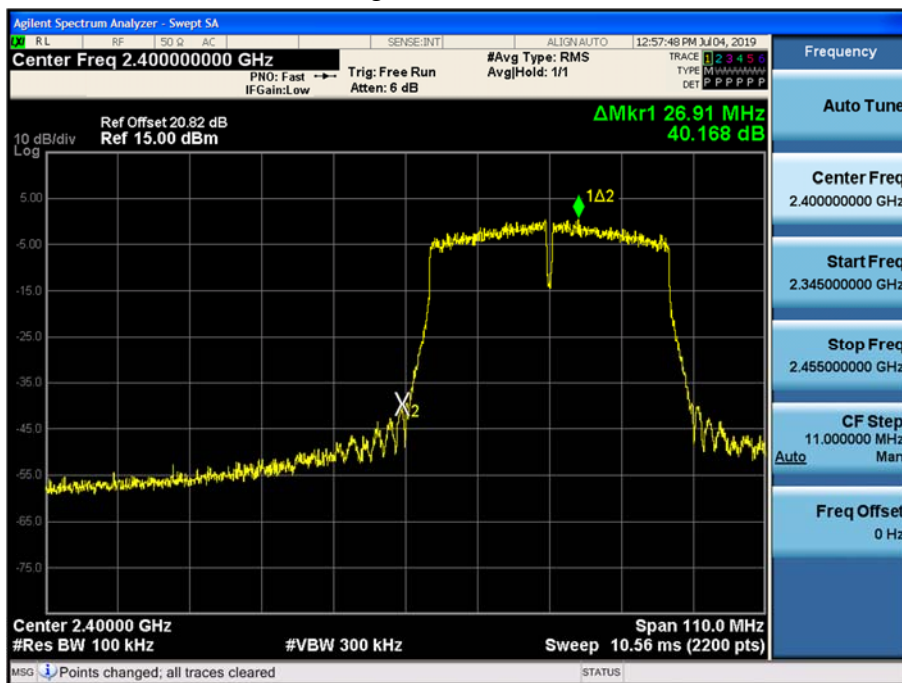
Band Edge (802.11n_HT20 -CH12)



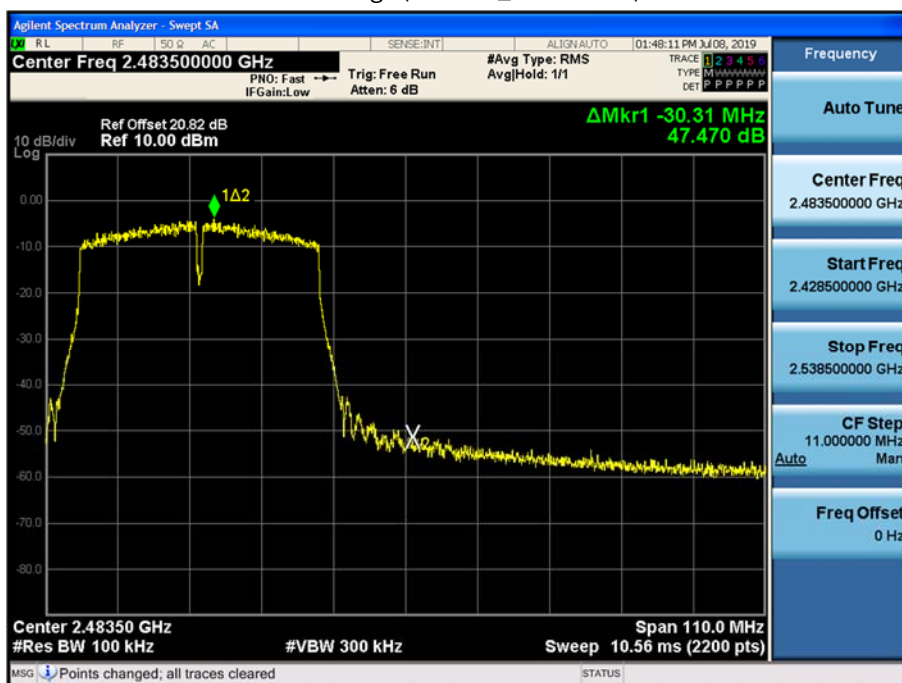
Band Edge (802.11n_HT20 -CH13)



Band Edge (802.11n_HT40 -CH3)



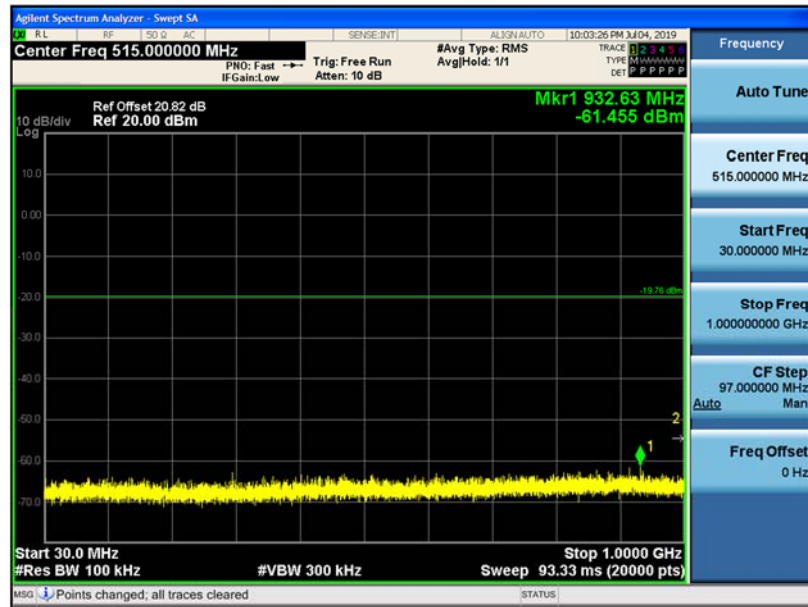
Band Edge (802.11n_HT40 -CH9)



Test Plots(Conducted Spurious Emission)

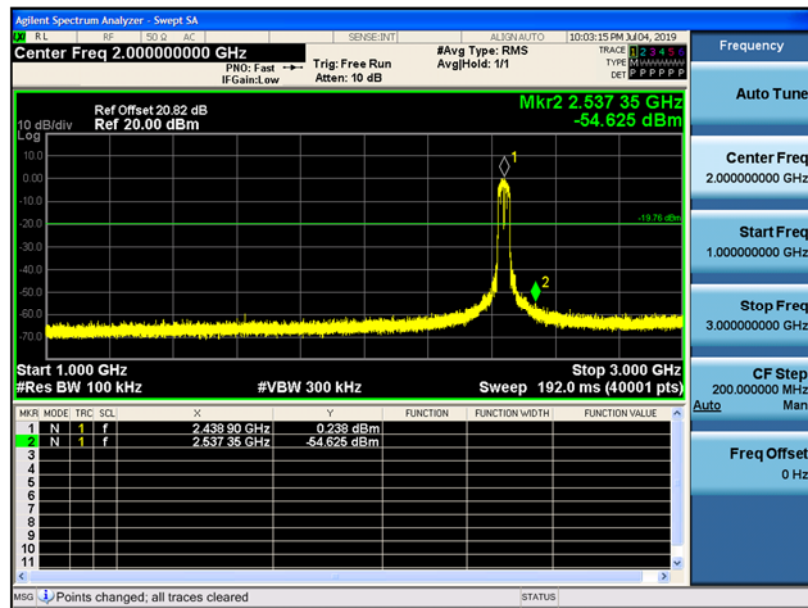
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



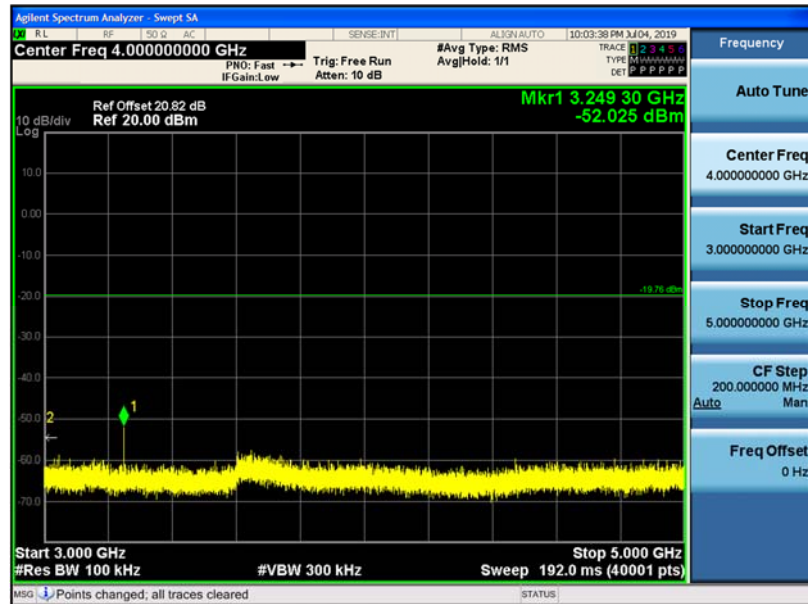
1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



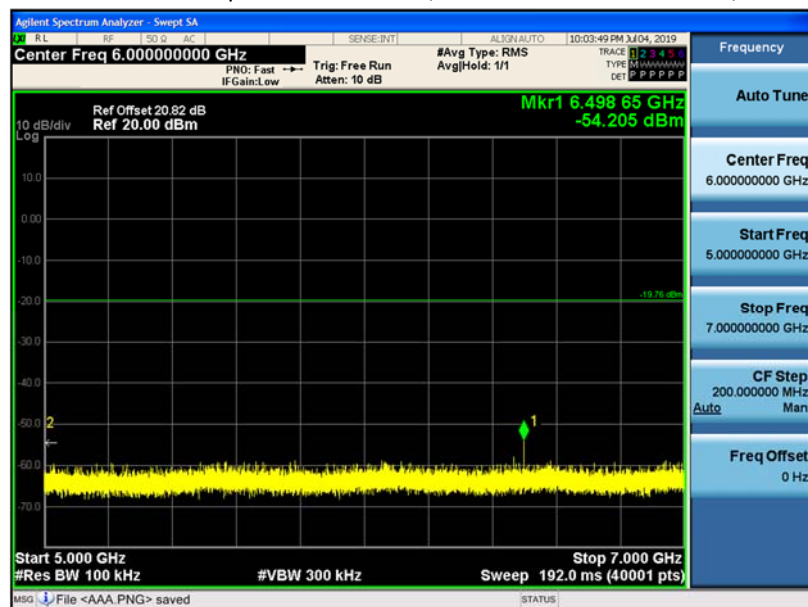
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



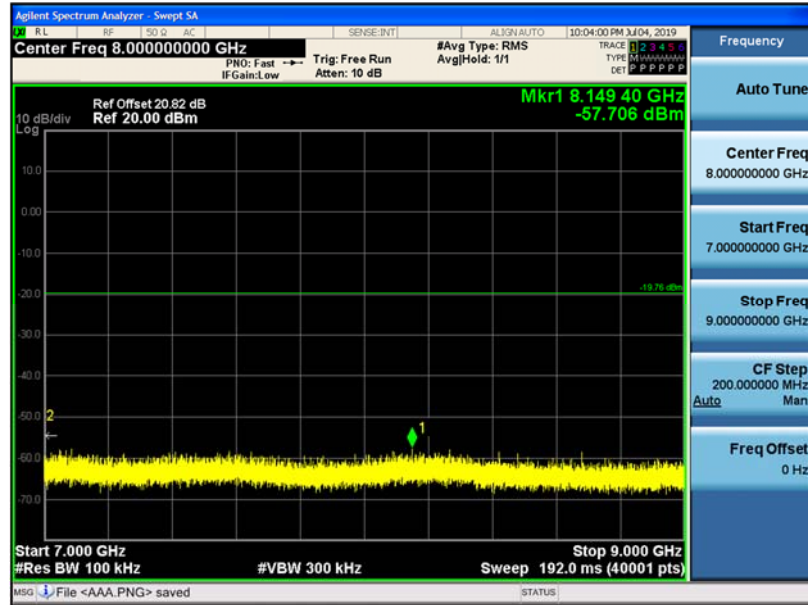
5 GHz ~ 7 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



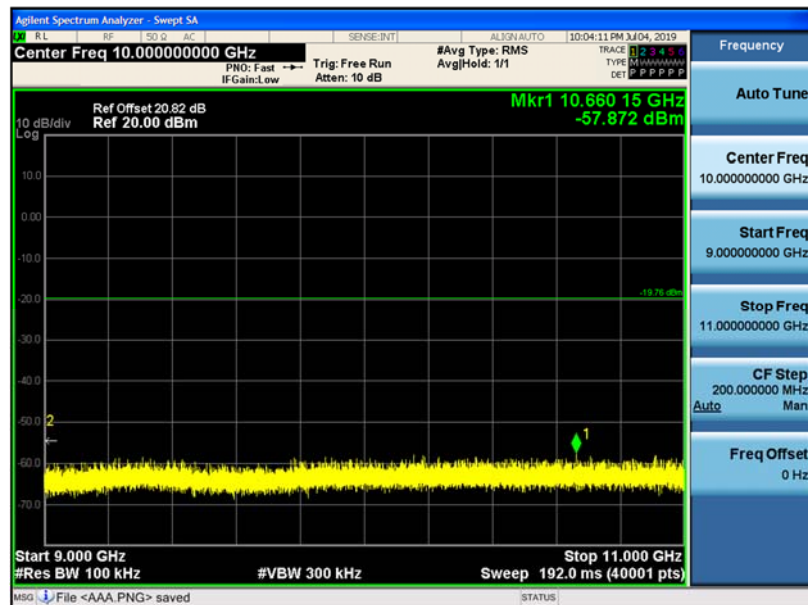
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



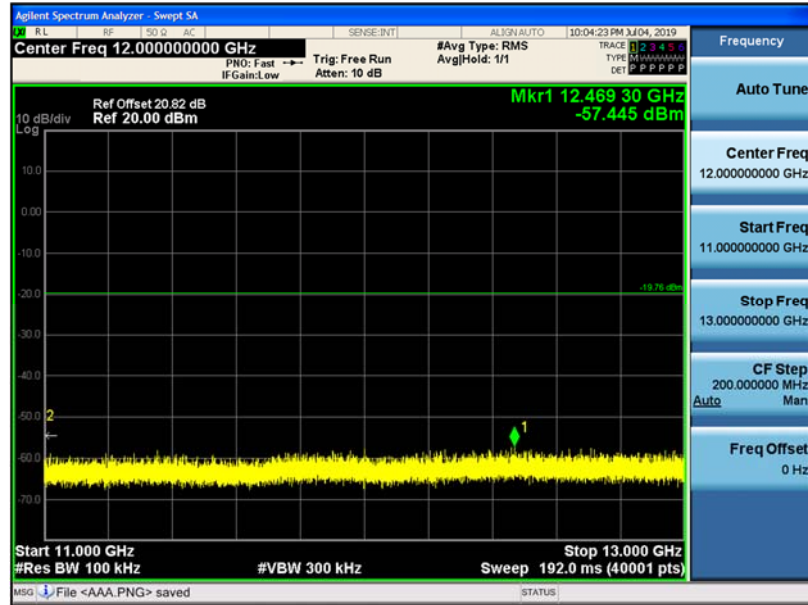
9 GHz ~ 11 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



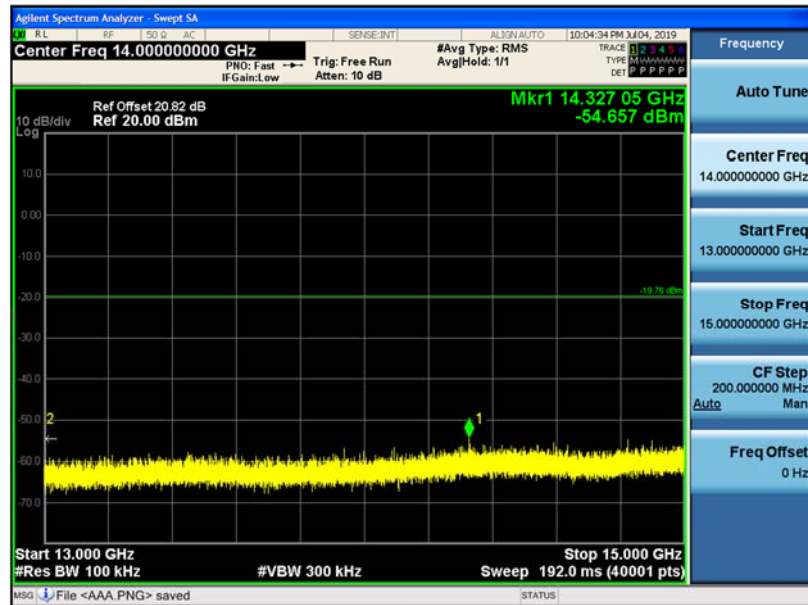
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



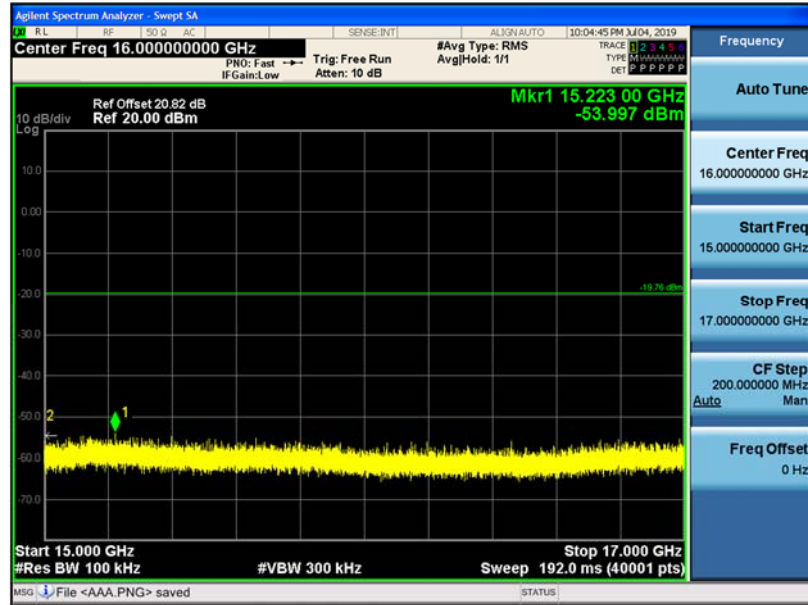
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



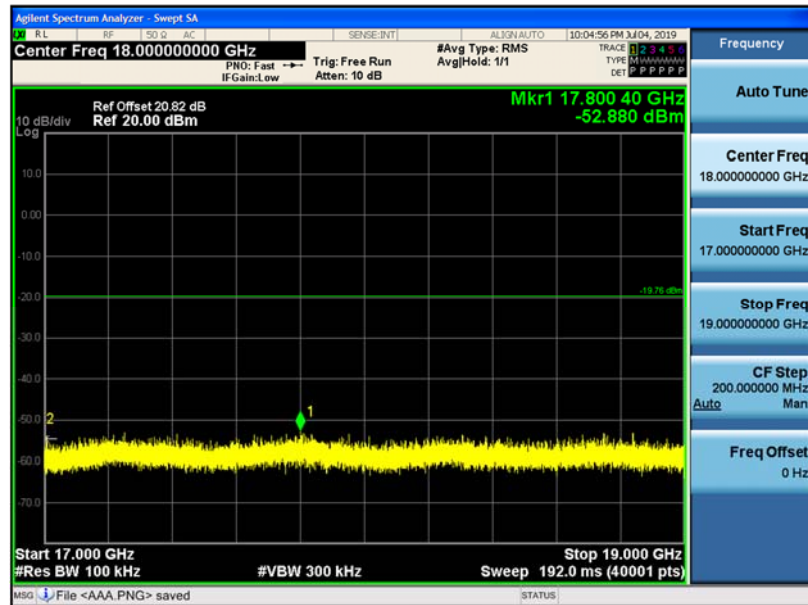
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



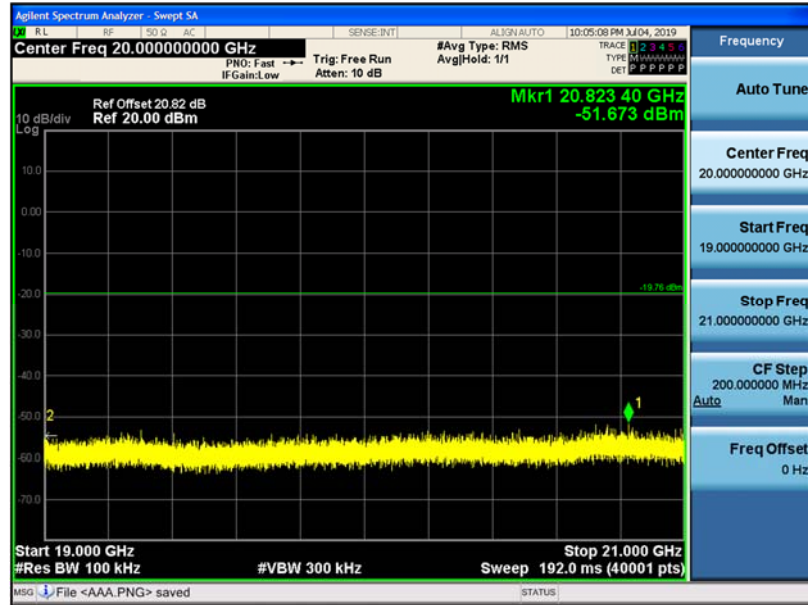
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



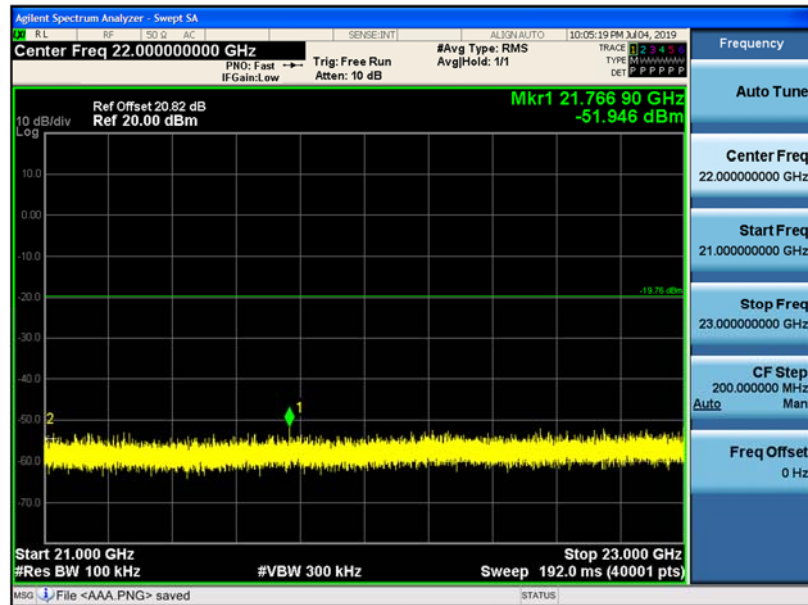
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



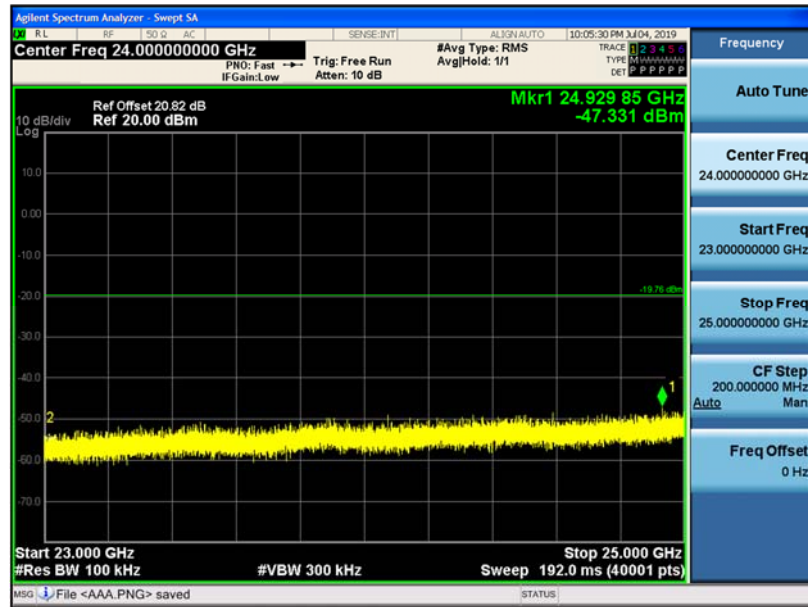
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11n_HT40_Ch.6_MCS4)



9.5 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. The test results for below 30 MHz is correlated to an open site.

The result on OFS is about 2 dB higher than semi-anechoic chamber(10 m chamber)

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Frequency Range : Above 1 GHz

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	50.31	2.74	V	53.05	73.98	20.93	PK
4824	47.55	2.74	V	50.29	53.98	3.69	AV
7236	48.57	8.72	V	57.29	73.98	16.69	PK
7236	41.79	8.72	V	50.51	53.98	3.47	AV
4824	50.65	2.74	H	53.39	73.98	20.59	PK
4824	47.78	2.74	H	50.52	53.98	3.46	AV
7236	48.17	8.72	H	56.89	73.98	17.09	PK
7236	41.54	8.72	H	50.26	53.98	3.72	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	49.99	2.74	V	52.73	73.98	21.25	PK
4824	36.50	2.74	V	39.24	53.98	14.74	AV
7236	50.58	8.72	V	59.30	73.98	14.68	PK
7236	36.68	8.72	V	45.40	53.98	8.58	AV
4824	50.22	2.74	H	52.96	73.98	21.02	PK
4824	37.10	2.74	H	39.84	53.98	14.14	AV
7236	49.98	8.72	H	58.70	73.98	15.28	PK
7236	36.12	8.72	H	44.84	53.98	9.14	AV

Operation Mode: 802.11n (HT20)

Transfer MCS Index: 0

Operating Frequency: 2412

Channel No. 01 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	47.59	2.74	V	50.33	73.98	23.65	PK
4824	35.74	2.74	V	38.48	53.98	15.50	AV
7236	48.32	8.72	V	57.04	73.98	16.94	PK
7236	35.06	8.72	V	43.78	53.98	10.20	AV
4824	47.98	2.74	H	50.72	73.98	23.26	PK
4824	36.06	2.74	H	38.80	53.98	15.18	AV
7236	48.17	8.72	H	56.89	73.98	17.09	PK
7236	34.55	8.72	H	43.27	53.98	10.71	AV

Operation Mode: 802.11n (HT40)

Transfer MCS Index: 0

Operating Frequency: 2422

Channel No. 03 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4844	46.57	3.20	V	49.77	73.98	24.21	PK
4844	35.16	3.20	V	38.36	53.98	15.62	AV
7266	42.66	8.64	V	51.30	73.98	22.68	PK
7266	30.92	8.64	V	39.56	53.98	14.42	AV
4844	46.93	3.20	H	50.13	73.98	23.85	PK
4844	35.63	3.20	H	38.83	53.98	15.15	AV
7266	42.54	8.64	H	51.18	73.98	22.80	PK
7266	30.85	8.64	H	39.49	53.98	14.49	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	51.54	2.78	V	54.32	73.98	19.66	PK
4874	47.61	2.78	V	50.39	53.98	3.59	AV
7311	45.47	9.01	V	54.48	73.98	19.50	PK
7311	37.58	9.01	V	46.59	53.98	7.39	AV
4874	52.03	2.78	H	54.81	73.98	19.17	PK
4874	47.73	2.78	H	50.51	53.98	3.47	AV
7311	45.11	9.01	H	54.12	73.98	19.86	PK
7311	37.17	9.01	H	46.18	53.98	7.80	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	49.43	2.78	V	52.21	73.98	21.77	PK
4874	37.00	2.78	V	39.78	53.98	14.20	AV
7311	47.00	9.01	V	56.01	73.98	17.97	PK
7311	33.74	9.01	V	42.75	53.98	11.23	AV
4874	49.76	2.78	H	52.54	73.98	21.44	PK
4874	37.20	2.78	H	39.98	53.98	14.00	AV
7311	46.55	9.01	H	55.56	73.98	18.42	PK
7311	33.19	9.01	H	42.20	53.98	11.78	AV

Operation Mode:	802.11n (HT20)
Transfer MCS Index:	0
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	47.59	2.74	V	50.33	73.98	23.65	PK
4824	35.74	2.74	V	38.48	53.98	15.50	AV
7236	48.32	8.72	V	57.04	73.98	16.94	PK
7236	35.06	8.72	V	43.78	53.98	10.20	AV
4824	47.98	2.74	H	50.72	73.98	23.26	PK
4824	36.06	2.74	H	38.80	53.98	15.18	AV
7236	48.17	8.72	H	56.89	73.98	17.09	PK
7236	34.55	8.72	H	43.27	53.98	10.71	AV

Operation Mode:	802.11n (HT40)
Transfer MCS Index:	0
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	45.99	2.78	V	48.77	73.98	25.21	PK
4874	34.29	2.78	V	37.07	53.98	16.91	AV
7311	42.21	9.01	V	51.22	73.98	22.76	PK
7311	30.27	9.01	V	39.28	53.98	14.70	AV
4874	46.16	2.78	H	48.94	73.98	25.04	PK
4874	34.45	2.78	H	37.23	53.98	16.75	AV
7311	42.13	9.01	H	51.14	73.98	22.84	PK
7311	30.15	9.01	H	39.16	53.98	14.82	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	52.05	2.43	V	54.48	73.98	19.50	PK
4924	48.04	2.43	V	50.47	53.98	3.51	AV
7386	43.22	9.44	V	52.66	73.98	21.32	PK
7386	33.03	9.44	V	42.47	53.98	11.51	AV
4924	53.33	2.43	H	55.76	73.98	18.22	PK
4924	48.10	2.43	H	50.53	53.98	3.45	AV
7386	43.04	9.44	H	52.48	73.98	21.50	PK
7386	32.54	9.44	H	41.98	53.98	12.00	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	51.56	2.43	V	53.99	73.98	19.99	PK
4924	39.24	2.43	V	41.67	53.98	12.31	AV
7386	44.20	9.44	V	53.64	73.98	20.34	PK
7386	31.71	9.44	V	41.15	53.98	12.83	AV
4924	51.86	2.43	H	54.29	73.98	19.69	PK
4924	39.51	2.43	H	41.94	53.98	12.04	AV
7386	44.00	9.44	H	53.44	73.98	20.54	PK
7386	31.43	9.44	H	40.87	53.98	13.11	AV

Operation Mode:	802.11n (HT20)
Transfer Rate:	6.5 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	51.88	2.43	V	54.31	73.98	19.67	PK
4924	39.11	2.43	V	41.54	53.98	12.44	AV
7386	44.48	9.44	V	53.92	73.98	20.06	PK
7386	31.44	9.44	V	40.88	53.98	13.10	AV
4924	52.09	2.43	H	54.52	73.98	19.46	PK
4924	39.33	2.43	H	41.76	53.98	12.22	AV
7386	44.21	9.44	H	53.65	73.98	20.33	PK
7386	31.08	9.44	H	40.52	53.98	13.46	AV

Operation Mode:	802.11n (HT40)
Transfer Rate:	6.5 Mbps
Operating Frequency	2452
Channel No.	9 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4904	45.67	2.56	V	48.23	73.98	25.75	PK
4904	34.54	2.56	V	37.10	53.98	16.88	AV
7356	41.97	9.69	V	51.66	73.98	22.32	PK
7356	30.40	9.69	V	40.09	53.98	13.89	AV
4904	45.83	2.56	H	48.39	73.98	25.59	PK
4904	34.88	2.56	H	37.44	53.98	16.54	AV
7356	41.86	9.69	H	51.55	73.98	22.43	PK
7356	30.22	9.69	H	39.91	53.98	14.07	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2467
Channel No.	12 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	51.05	2.43	V	53.48	73.98	20.50	PK
4924	47.11	2.43	V	49.54	53.98	4.44	AV
7386	42.46	9.44	V	51.90	73.98	22.08	PK
7386	32.05	9.44	V	41.49	53.98	12.49	AV
4924	51.32	2.43	H	53.75	73.98	20.23	PK
4924	47.38	2.43	H	49.81	53.98	4.17	AV
7386	42.19	9.44	H	51.63	73.98	22.35	PK
7386	31.98	9.44	H	41.42	53.98	12.56	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2467
Channel No.	12 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	43.57	2.43	V	46.00	73.98	27.98	PK
4924	31.54	2.43	V	33.97	53.98	20.01	AV
7386	41.03	9.44	V	50.47	73.98	23.51	PK
7386	28.94	9.44	V	38.38	53.98	15.60	AV
4924	43.89	2.43	H	46.32	73.98	27.66	PK
4924	31.77	2.43	H	34.20	53.98	19.78	AV
7386	40.98	9.44	H	50.42	73.98	23.56	PK
7386	28.69	9.44	H	38.13	53.98	15.85	AV

Operation Mode:	802.11n (HT20)
Transfer Rate:	6.5 Mbps
Operating Frequency	2467
Channel No.	12 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	43.27	2.43	V	45.70	73.98	28.28	PK
4924	31.55	2.43	V	33.98	53.98	20.00	AV
7386	40.82	9.44	V	50.26	73.98	23.72	PK
7386	28.89	9.44	V	38.33	53.98	15.65	AV
4924	43.55	2.43	H	45.98	73.98	28.00	PK
4924	31.78	2.43	H	34.21	53.98	19.77	AV
7386	40.77	9.44	H	50.21	73.98	23.77	PK
7386	28.75	9.44	H	38.19	53.98	15.79	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2472
Channel No.	13 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	49.57	2.43	V	52.00	73.98	21.98	PK
4924	44.98	2.43	V	47.41	53.98	6.57	AV
7386	42.02	9.44	V	51.46	73.98	22.52	PK
7386	30.68	9.44	V	40.12	53.98	13.86	AV
4924	49.81	2.43	H	52.24	73.98	21.74	PK
4924	45.28	2.43	H	47.71	53.98	6.27	AV
7386	41.87	9.44	H	51.31	73.98	22.67	PK
7386	30.55	9.44	H	39.99	53.98	13.99	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2472
Channel No.	13 Ch

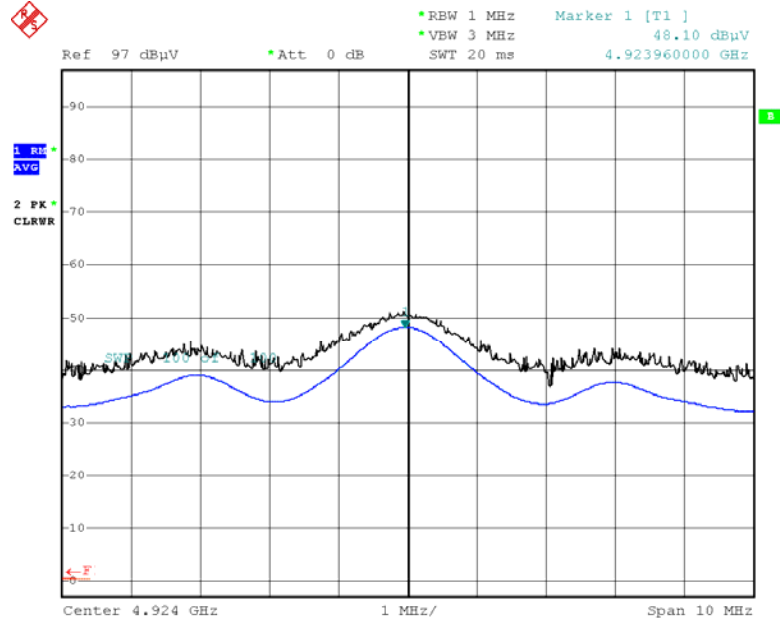
Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	43.71	2.43	V	46.14	73.98	27.84	PK
4924	31.55	2.43	V	33.98	53.98	20.00	AV
7386	41.01	9.44	V	50.45	73.98	23.53	PK
7386	29.31	9.44	V	38.75	53.98	15.23	AV
4924	43.84	2.43	H	46.27	73.98	27.71	PK
4924	31.73	2.43	H	34.16	53.98	19.82	AV
7386	40.85	9.44	H	50.29	73.98	23.69	PK
7386	29.04	9.44	H	38.48	53.98	15.50	AV

Operation Mode:	802.11n (HT20)
Transfer Rate:	6.5 Mbps
Operating Frequency	2472
Channel No.	13 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	43.16	2.43	V	45.59	73.98	28.39	PK
4924	31.50	2.43	V	33.93	53.98	20.05	AV
7386	41.42	9.44	V	50.86	73.98	23.12	PK
7386	29.23	9.44	V	38.67	53.98	15.31	AV
4924	43.48	2.43	H	45.91	73.98	28.07	PK
4924	31.68	2.43	H	34.11	53.98	19.87	AV
7386	41.02	9.44	H	50.46	73.98	23.52	PK
7386	29.10	9.44	H	38.54	53.98	15.44	AV

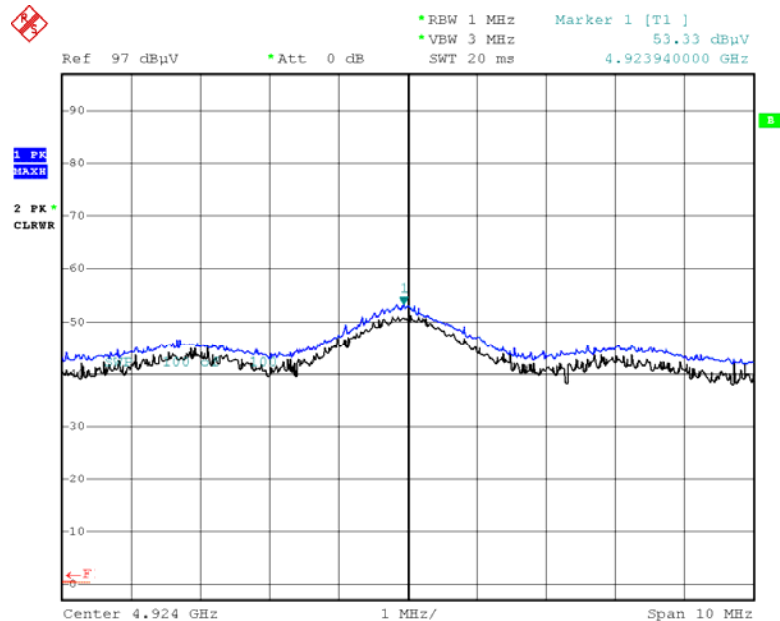
Test Plots

Radiated Spurious Emissions plot – Average Reading (802.11b, Ch.11 2nd Harmonic, Z-H)



Date: 5.JUL.2019 07:28:49

Radiated Spurious Emissions plot – Peak Reading (802.11b, Ch.11 2nd Harmonic, Z-H)



Date: 5.JUL.2019 07:33:42

Note:

Plot of worst case are only reported.

9.6 RADIATED RESTRICTED BAND EDGES

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading dBuV	※ A.F.+CL [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	56.66	0.22	H	56.88	73.98	17.10	PK
2390.0	46.23	0.22	H	46.45	53.98	7.53	AV
2390.0	56.17	0.22	V	56.39	73.98	17.59	PK
2390.0	46.17	0.22	V	46.39	53.98	7.59	AV
2483.5	57.81	0.65	H	58.46	73.98	15.52	PK
2483.5	46.45	0.65	H	47.10	53.98	6.88	AV
2483.5	56.99	0.65	V	57.64	73.98	16.34	PK
2483.5	46.31	0.65	V	46.96	53.98	7.02	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2467 MHz, 2472 MHz
Channel No.	12 Ch, 13 Ch

Channel	Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
12	2483.5	59.28	0.65	H	59.93	73.98	14.05	PK
	2483.5	50.32	0.65	H	50.97	53.98	3.01	AV
	2483.5	58.98	0.65	V	59.63	73.98	14.35	PK
	2483.5	50.11	0.65	V	50.76	53.98	3.22	AV
13	2483.5	58.81	0.65	H	59.46	73.98	14.52	PK
	2483.5	50.07	0.65	H	50.72	53.98	3.26	AV
	2483.5	58.55	0.65	V	59.20	73.98	14.78	PK
	2483.5	49.54	0.65	V	50.19	53.98	3.79	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	62.14	0.22	H	62.36	73.98	11.62	PK
2390.0	49.40	0.22	H	49.62	53.98	4.36	AV
2390.0	61.54	0.22	V	61.76	73.98	12.22	PK
2390.0	49.10	0.22	V	49.32	53.98	4.66	AV
2483.5	66.50	0.65	H	67.15	73.98	6.83	PK
2483.5	50.26	0.65	H	50.91	53.98	3.07	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2467 MHz, 2472 MHz
Channel No.	12 Ch, 13 Ch

Channel	Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
12	2483.5	62.53	0.65	H	63.18	73.98	10.80	PK
	2483.5	50.11	0.65	H	50.76	53.98	3.22	AV
	2483.5	62.27	0.65	V	62.92	73.98	11.06	PK
	2483.5	49.54	0.65	V	50.19	53.98	3.79	AV
13	2483.5	58.34	0.65	H	58.99	73.98	14.99	PK
	2483.5	49.40	0.65	H	50.05	53.98	3.93	AV
	2483.5	58.11	0.65	V	58.76	73.98	15.22	PK
	2483.5	49.10	0.65	V	49.75	53.98	4.23	AV

Operation Mode: 802.11n (HT20)

Transfer MCS Index: 0

Operating Frequency: 2412 MHz, 2462 MHz

Channel No. 01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	65.22	0.22	H	65.44	73.98	8.54	PK
2390.0	49.83	0.22	H	50.05	53.98	3.93	AV
2390.0	64.98	0.22	V	65.20	73.98	8.78	PK
2390.0	49.15	0.22	V	49.37	53.98	4.61	AV
2483.5	66.79	0.65	H	67.44	73.98	6.54	PK
2483.5	50.30	0.65	H	50.95	53.98	3.03	AV
2483.5	66.31	0.65	V	66.96	73.98	7.02	PK
2483.5	50.11	0.65	V	50.76	53.98	3.22	AV

Operation Mode: 802.11n (HT20)

Transfer MCS Index: 0

Operating Frequency: 2467 MHz, 2472 MHz

Channel No. 12 Ch, 13 Ch

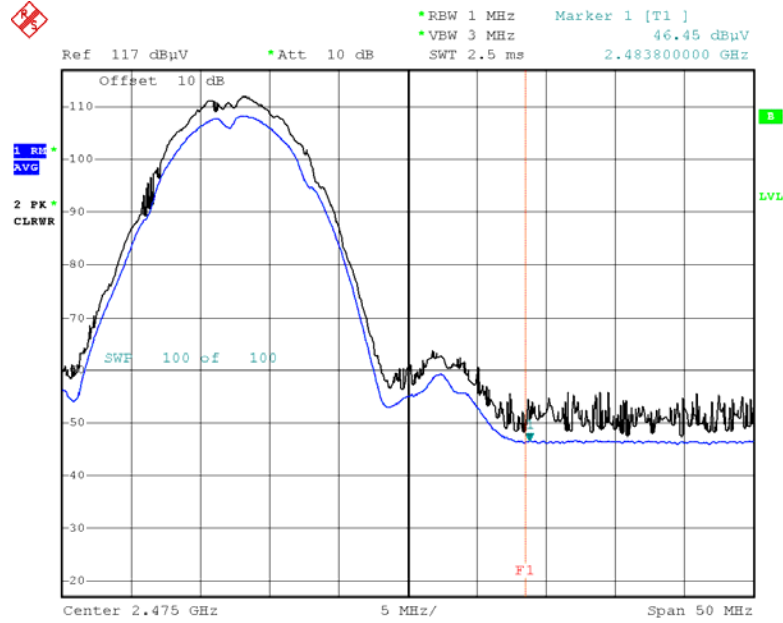
Channel	Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
12	2483.5	60.93	0.65	H	61.58	73.98	12.40	PK
	2483.5	49.33	0.65	H	49.98	53.98	4.00	AV
	2483.5	60.55	0.65	V	61.20	73.98	12.78	PK
	2483.5	49.15	0.65	V	49.80	53.98	4.18	AV
13	2483.5	59.51	0.65	H	60.16	73.98	13.82	PK
	2483.5	50.03	0.65	H	50.68	53.98	3.30	AV
	2483.5	59.13	0.65	V	59.78	73.98	14.20	PK
	2483.5	49.50	0.65	V	50.15	53.98	3.83	AV

Operation Mode:	802.11n (HT40)
Transfer MCS Index:	0
Operating Frequency	2422 MHz, 2452 MHz
Channel No.	03 Ch, 09 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	59.29	0.22	H	59.51	73.98	14.47	PK
2390.0	49.40	0.22	H	49.62	53.98	4.36	AV
2390.0	59.02	0.22	V	59.24	73.98	14.74	PK
2390.0	49.13	0.22	V	49.35	53.98	4.63	AV
2483.5	62.61	0.65	H	63.26	73.98	10.72	PK
2483.5	50.15	0.65	H	50.80	53.98	3.18	AV
2483.5	62.39	0.65	V	63.04	73.98	10.94	PK
2483.5	50.07	0.65	V	50.72	53.98	3.26	AV

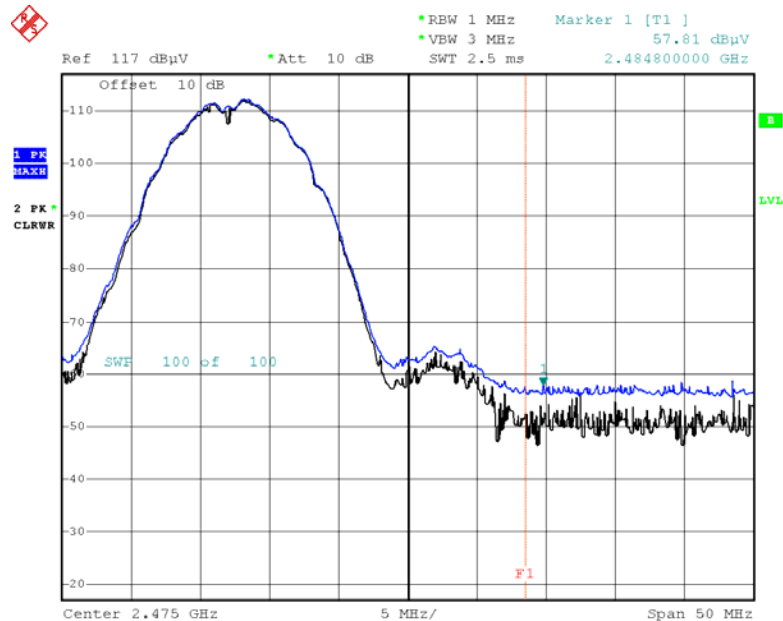
Test Plots

Radiated Restricted Band Edges plot – Average Reading (802.11b, Ch.11)



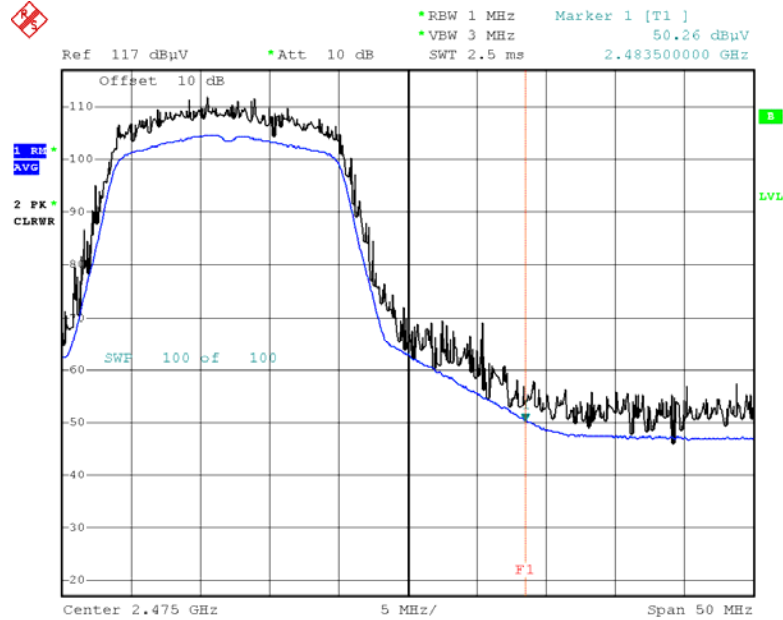
Date: 5.JUL.2019 07:06:32

Radiated Restricted Band Edges plot – Peak Reading (802.11b, Ch.11)



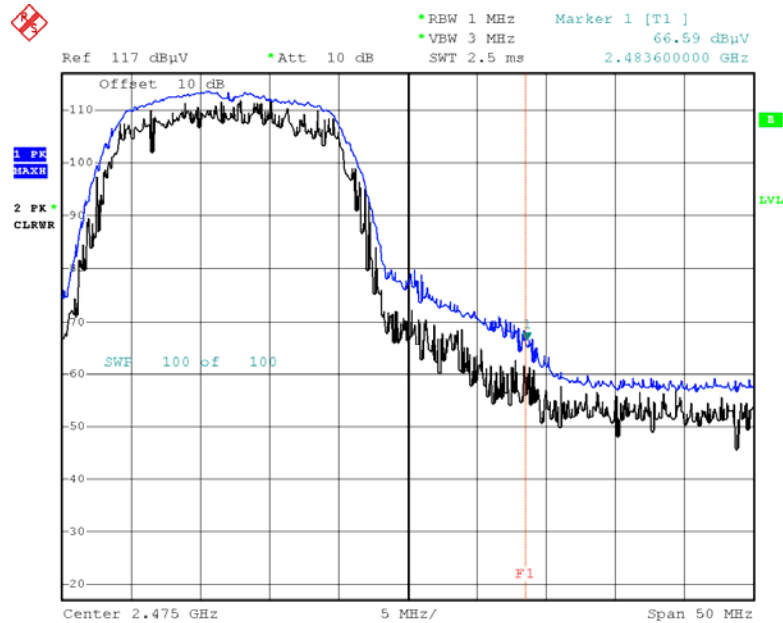
Date: 5.JUL.2019 07:07:53

Radiated Restricted Band Edges plot – Average Reading (802.11g, Ch.11)



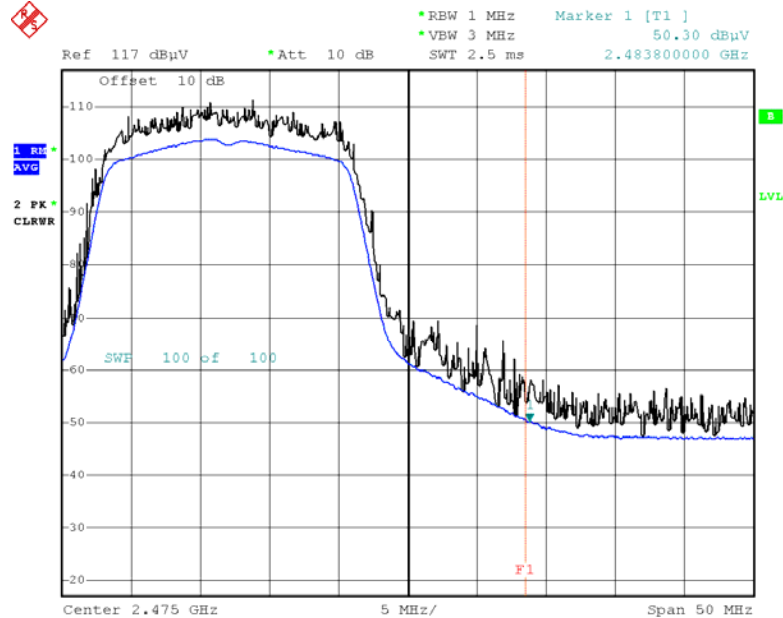
Date: 5.JUL.2019 06:48:41

Radiated Restricted Band Edges plot – Peak Reading (802.11g, Ch.11)



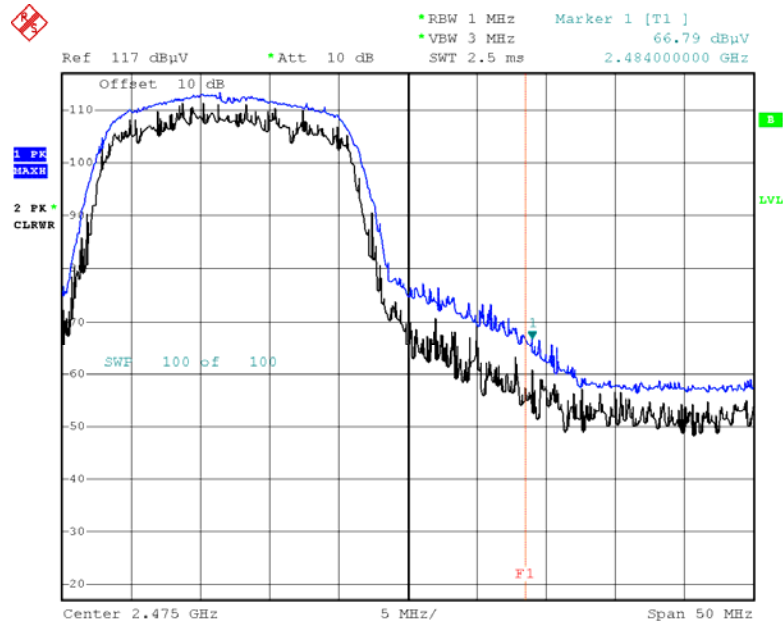
Date: 5.JUL.2019 06:44:31

Radiated Restricted Band Edges plot – Average Reading (802.11n_20, Ch.11)



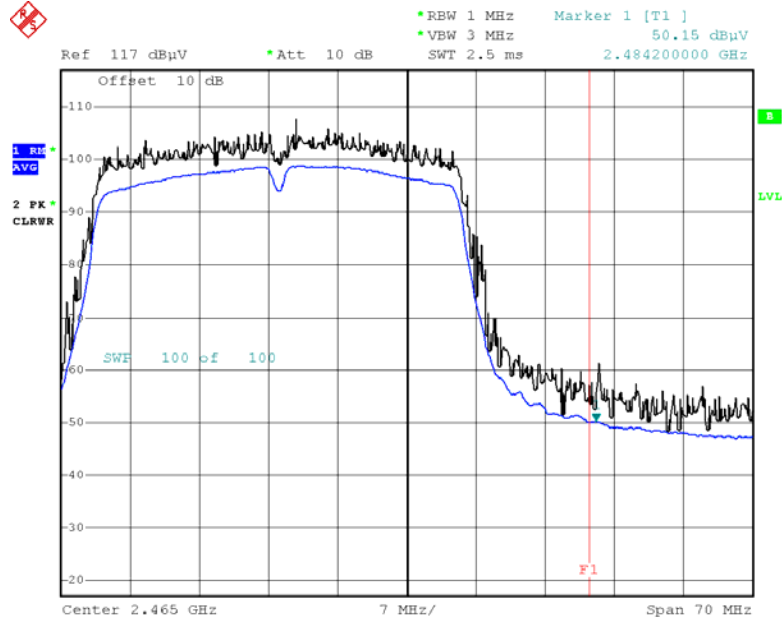
Date: 5.JUL.2019 07:12:43

Radiated Restricted Band Edges plot – Peak Reading (802.11n_20, Ch.11)



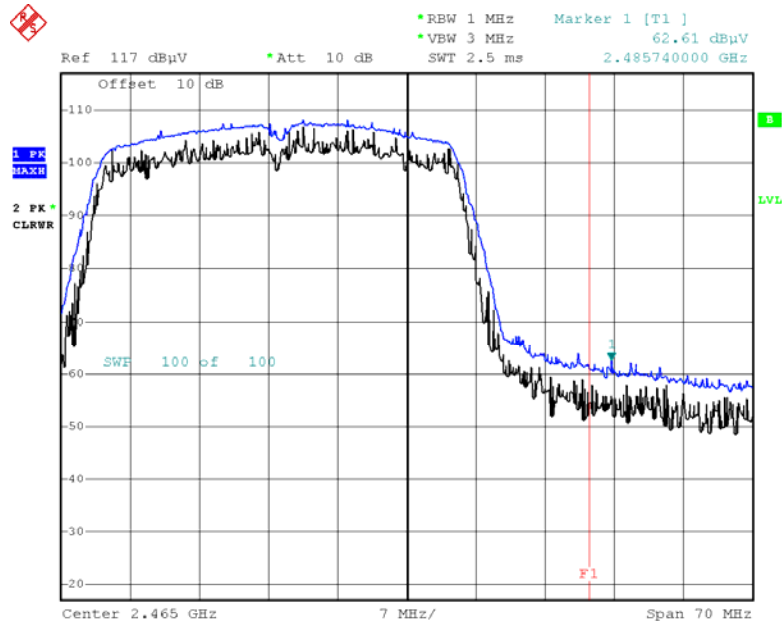
Date: 5.JUL.2019 07:10:07

Radiated Restricted Band Edges plot – Average Reading (802.11n_40, Ch.9)



Date: 5.JUL.2019 07:16:52

Radiated Restricted Band Edges plot – Peak Reading (802.11n_40, Ch.9)



Date: 5.JUL.2019 07:17:48

Note:

Plot of worst case are only reported.

9.7 RECEIVER SPURIOUS EMISSIONS

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Frequency Range : Above 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

9.8 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

Test

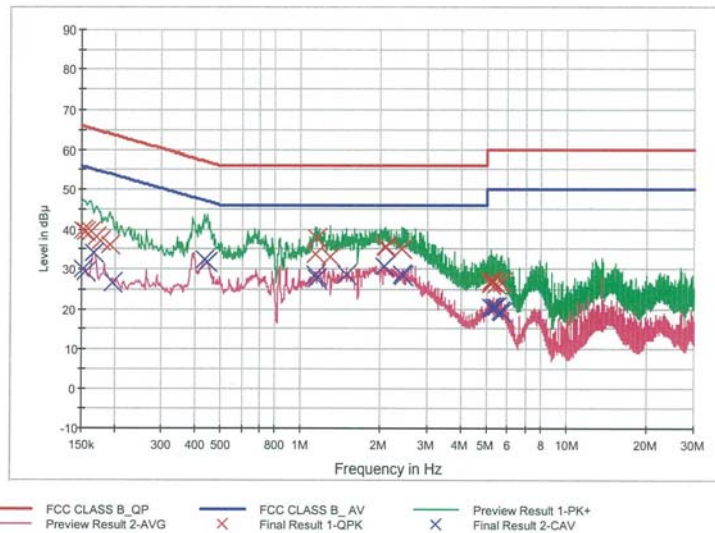
1 / 2

HCT TEST Report

Common Information

EUT: LGSBWAC02
Manufacturer: LG Electronics, Inc.
Test Site: SHIELD ROOM
Operating Conditions: WLAN 2.4G_L1

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	40.0	9.000	Off	L1	9.6	25.9	65.9
0.156000	39.6	9.000	Off	L1	9.6	26.1	65.7
0.162000	39.5	9.000	Off	L1	9.6	25.8	65.4
0.170000	38.2	9.000	Off	L1	9.6	26.7	65.0
0.176000	37.2	9.000	Off	L1	9.6	27.5	64.7
0.192000	36.0	9.000	Off	L1	9.7	28.0	63.9
1.130000	33.9	9.000	Off	L1	9.7	22.1	56.0
1.146000	37.8	9.000	Off	L1	9.7	18.2	56.0
1.292000	33.2	9.000	Off	L1	9.8	22.8	56.0
2.086000	35.7	9.000	Off	L1	9.7	20.3	56.0
2.090000	35.3	9.000	Off	L1	9.7	20.7	56.0
2.412000	35.2	9.000	Off	L1	9.8	20.8	56.0
5.176000	26.2	9.000	Off	L1	9.8	33.8	60.0
5.182000	26.4	9.000	Off	L1	9.8	33.6	60.0
5.190000	27.0	9.000	Off	L1	9.8	33.0	60.0
5.268000	27.0	9.000	Off	L1	9.9	33.0	60.0
5.418000	26.2	9.000	Off	L1	9.9	33.8	60.0
5.720000	26.6	9.000	Off	L1	9.9	33.4	60.0

2019-07-15

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Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	29.9	9.000	Off	L1	9.6	26.0	55.9
0.156000	29.4	9.000	Off	L1	9.6	26.3	55.7
0.166000	34.1	9.000	Off	L1	9.6	21.0	55.2
0.196000	26.7	9.000	Off	L1	9.7	27.1	53.8
0.436000	32.4	9.000	Off	L1	9.7	14.7	47.1
0.444000	31.7	9.000	Off	L1	9.7	15.3	47.0
1.130000	28.7	9.000	Off	L1	9.7	17.3	46.0
1.146000	27.6	9.000	Off	L1	9.7	18.4	46.0
1.480000	28.7	9.000	Off	L1	9.8	17.3	46.0
2.056000	30.6	9.000	Off	L1	9.7	15.4	46.0
2.400000	28.6	9.000	Off	L1	9.8	17.4	46.0
2.414000	28.5	9.000	Off	L1	9.8	17.5	46.0
5.188000	20.4	9.000	Off	L1	9.8	29.6	50.0
5.268000	20.2	9.000	Off	L1	9.9	29.8	50.0
5.316000	20.5	9.000	Off	L1	9.9	29.5	50.0
5.418000	20.6	9.000	Off	L1	9.9	29.4	50.0
5.646000	19.5	9.000	Off	L1	9.9	30.5	50.0
5.720000	19.0	9.000	Off	L1	9.9	31.0	50.0

2019-07-15

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Conducted Emissions (Line 2)

Test

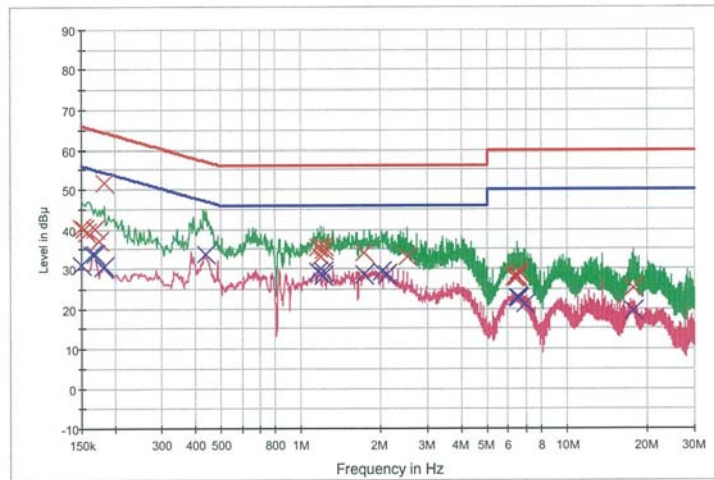
1 / 2

HCT TEST Report

Common Information

EUT: LGSBWAC02
Manufacturer: LG Electronics, Inc.
Test Site: SHIELD ROOM
Operating Conditions: WLAN 2.4G_N

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG × Final Result 1-QPK × Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	40.5	9.000	Off	N	9.6	25.5	66.0
0.154000	40.3	9.000	Off	N	9.6	25.5	65.8
0.158000	39.1	9.000	Off	N	9.6	26.5	65.6
0.168000	40.2	9.000	Off	N	9.6	24.9	65.1
0.174000	37.1	9.000	Off	N	9.6	27.7	64.8
0.182000	51.6	9.000	Off	N	9.6	12.8	64.4
1.164000	35.4	9.000	Off	N	9.7	20.6	56.0
1.192000	33.2	9.000	Off	N	9.7	22.8	56.0
1.216000	35.7	9.000	Off	N	9.7	20.3	56.0
1.220000	34.9	9.000	Off	N	9.7	21.1	56.0
1.724000	33.9	9.000	Off	N	9.7	22.1	56.0
2.518000	32.9	9.000	Off	N	9.7	23.1	56.0
6.348000	28.0	9.000	Off	N	9.9	32.0	60.0
6.452000	28.4	9.000	Off	N	9.9	31.6	60.0
6.456000	28.0	9.000	Off	N	9.9	32.0	60.0
6.550000	29.4	9.000	Off	N	9.9	30.6	60.0
6.554000	29.4	9.000	Off	N	9.9	30.6	60.0
17.784000	25.4	9.000	Off	N	10.1	34.6	60.0

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	30.9	9.000	Off	N	9.6	25.1	56.0
0.164000	33.6	9.000	Off	N	9.6	21.6	55.3
0.168000	33.7	9.000	Off	N	9.6	21.4	55.1
0.180000	30.2	9.000	Off	N	9.6	24.3	54.5
0.184000	30.7	9.000	Off	N	9.6	23.6	54.3
0.440000	33.8	9.000	Off	N	9.6	13.3	47.1
1.164000	29.4	9.000	Off	N	9.7	16.6	46.0
1.214000	28.3	9.000	Off	N	9.7	17.7	46.0
1.220000	29.4	9.000	Off	N	9.7	16.6	46.0
1.724000	28.6	9.000	Off	N	9.7	17.4	46.0
2.018000	29.2	9.000	Off	N	9.7	16.8	46.0
2.116000	28.8	9.000	Off	N	9.7	17.2	46.0
6.452000	22.8	9.000	Off	N	9.9	27.2	50.0
6.456000	22.9	9.000	Off	N	9.9	27.1	50.0
6.550000	22.8	9.000	Off	N	9.9	27.2	50.0
6.572000	22.5	9.000	Off	N	9.9	27.5	50.0
6.956000	21.4	9.000	Off	N	9.9	28.6	50.0
17.784000	19.4	9.000	Off	N	10.1	30.6	50.0

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10. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	01/10/2019	Annual	MY49431210
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2019	Annual	100422

Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/09/2018	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	11/21/2017	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/19/2018	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/19/2018	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	01/03/2019	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	01/03/2019	Annual	5
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/19/2019	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/04/2019	Annual	1
WEINSCHL	56-10 / Attenuator(10 dB)	10/10/2018	Annual	72316
CERNEX	CBLU1183540B-01/Broadband Bench Top LNA	01/03/2019	Annual	28549
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	01/03/2019	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

11. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1908-FI008-P