

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	13.04	-	9.06	-	0.50	Pass
11b	1Mbps	1	6	2437	12.99	-	8.74	-	0.50	Pass
11b	1Mbps	1	10	2457	13.04	-	9.16	-	0.50	Pass
11b	1Mbps	1	11	2462	13.09	-	9.36	-	0.50	Pass
11g	6Mbps	1	1	2412	17.63	-	16.38	-	0.50	Pass
11g	6Mbps	1	6	2437	17.63	-	16.34	-	0.50	Pass
11g	6Mbps	1	11	2462	17.58	-	16.38	-	0.50	Pass
HT20	MCS0	1	1	2412	18.38	-	17.62	-	0.50	Pass
HT20	MCS0	1	2	2417	18.38	-	17.62	-	0.50	Pass
HT20	MCS0	1	6	2437	18.38	-	17.62	-	0.50	Pass
HT20	MCS0	1	11	2462	18.38	-	17.62	-	0.50	Pass
HT40	MCS0	1	3	2422	36.66	-	36.36	-	0.50	Pass
HT40	MCS0	1	6	2437	36.46	-	36.32	-	0.50	Pass
HT40	MCS0	1	9	2452	36.56	-	36.40	-	0.50	Pass

**TEST RESULTS DATA**  
**Peak Output Power**

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	21.32	-		30.00	-	2.33	-	23.65	-	36.00	-	Pass
11b	1Mbps	1	6	2437	20.13	-		30.00	-	2.33	-	22.46	-	36.00	-	Pass
11b	1Mbps	1	10	2457	19.36	-		30.00	-	2.33	-	21.69	-	36.00	-	Pass
11b	1Mbps	1	11	2462	16.44	-		30.00	-	2.33	-	18.77	-	36.00	-	Pass
11g	6Mbps	1	1	2412	24.35	-		30.00	-	2.33	-	26.68	-	36.00	-	Pass
11g	6Mbps	1	6	2437	25.40	-		30.00	-	2.33	-	27.73	-	36.00	-	Pass
11g	6Mbps	1	11	2462	24.28	-		30.00	-	2.33	-	26.61	-	36.00	-	Pass
HT20	MCS0	1	1	2412	24.14	-		30.00	-	2.33	-	26.47	-	36.00	-	Pass
HT20	MCS0	1	2	2417	25.15	-		30.00	-	2.33	-	27.48	-	36.00	-	Pass
HT20	MCS0	1	6	2437	25.35	-		30.00	-	2.33	-	27.68	-	36.00	-	Pass
HT20	MCS0	1	11	2462	24.41	-		30.00	-	2.33	-	26.74	-	36.00	-	Pass
HT40	MCS0	1	3	2422	22.19	-		30.00	-	2.33	-	24.52	-	36.00	-	Pass
HT40	MCS0	1	6	2437	24.08	-		30.00	-	2.33	-	26.41	-	36.00	-	Pass
HT40	MCS0	1	9	2452	23.65	-		30.00	-	2.33	-	25.98	-	36.00	-	Pass

**TEST RESULTS DATA**  
**Average Output Power**  
**(Report only)**

2.4GHz Band Single Antenna																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	0.00	-	18.65	-		30.00	-	2.33	-	20.98	-	36.00	-	Pass
11b	1Mbps	1	6	2437	0.00	-	17.42	-		30.00	-	2.33	-	19.75	-	36.00	-	Pass
11b	1Mbps	1	10	2457	0.00	-	16.46	-		30.00	-	2.33	-	18.79	-	36.00	-	Pass
11b	1Mbps	1	11	2462	0.00	-	13.69	-		30.00	-	2.33	-	16.02	-	36.00	-	Pass
11g	6Mbps	1	1	2412	0.09	-	14.55	-		30.00	-	2.33	-	16.88	-	36.00	-	Pass
11g	6Mbps	1	6	2437	0.09	-	17.07	-		30.00	-	2.33	-	19.40	-	36.00	-	Pass
11g	6Mbps	1	11	2462	0.09	-	14.42	-		30.00	-	2.33	-	16.75	-	36.00	-	Pass
HT20	MCS0	1	1	2412	0.10	-	13.71	-		30.00	-	2.33	-	16.04	-	36.00	-	Pass
HT20	MCS0	1	2	2417	0.10	-	15.59	-		30.00	-	2.33	-	17.92	-	36.00	-	Pass
HT20	MCS0	1	6	2437	0.10	-	17.23	-		30.00	-	2.33	-	19.56	-	36.00	-	Pass
HT20	MCS0	1	11	2462	0.10	-	14.46	-		30.00	-	2.33	-	16.79	-	36.00	-	Pass
HT40	MCS0	1	3	2422	0.20	-	10.86	-		30.00	-	2.33	-	13.19	-	36.00	-	Pass
HT40	MCS0	1	6	2437	0.20	-	13.58	-		30.00	-	2.33	-	15.91	-	36.00	-	Pass
HT40	MCS0	1	9	2452	0.20	-	12.96	-		30.00	-	2.33	-	15.29	-	36.00	-	Pass

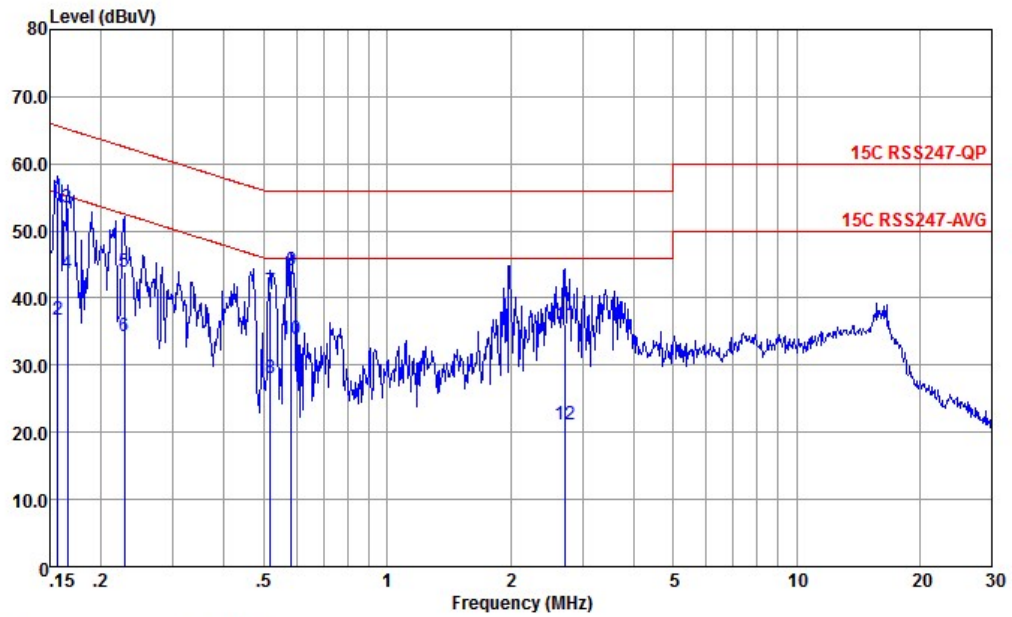
**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant1	Ant2	Worse + 3.01			
11b	1Mbps	1	1	2412	-4.58	-		2.33	8.00	Pass
11b	1Mbps	1	6	2437	-5.98	-		2.33	8.00	Pass
11b	1Mbps	1	10	2457	-6.00	-		2.33	8.00	Pass
11b	1Mbps	1	11	2462	-9.04	-		2.33	8.00	Pass
11g	6Mbps	1	1	2412	-10.27	-		2.33	8.00	Pass
11g	6Mbps	1	6	2437	-8.14	-		2.33	8.00	Pass
11g	6Mbps	1	11	2462	-10.57	-		2.33	8.00	Pass
HT20	MCS0	1	1	2412	-11.39	-		2.33	8.00	Pass
HT20	MCS0	1	2	2417	-10.01	-		2.33	8.00	Pass
HT20	MCS0	1	6	2437	-8.02	-		2.33	8.00	Pass
HT20	MCS0	1	11	2462	-10.60	-		2.33	8.00	Pass
HT40	MCS0	1	3	2422	-17.37	-		2.33	8.00	Pass
HT40	MCS0	1	6	2437	-14.12	-		2.33	8.00	Pass
HT40	MCS0	1	9	2452	-14.91	-		2.33	8.00	Pass



## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

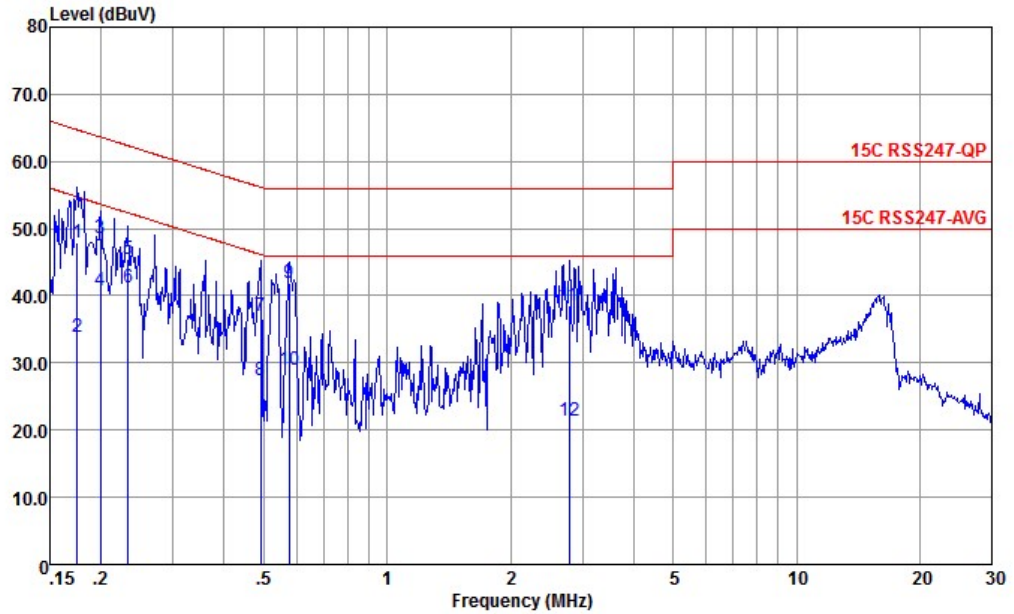


Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.156	55.09	-10.56	65.65	44.60	0.06	10.43	QP
2	0.156	36.79	-18.86	55.65	26.30	0.06	10.43	Average
3	0.166	53.58	-11.58	65.16	43.10	0.05	10.43	QP
4	0.166	43.68	-11.48	55.16	33.20	0.05	10.43	Average
5	0.228	43.93	-18.59	62.52	33.50	0.03	10.40	QP
6	0.228	34.33	-18.19	52.52	23.90	0.03	10.40	Average
7	0.518	40.97	-15.03	56.00	30.81	-0.04	10.20	QP
8	0.518	28.07	-17.93	46.00	17.91	-0.04	10.20	Average
9	0.582	44.23	-11.77	56.00	34.10	-0.06	10.19	QP
10	0.582	33.93	-12.07	46.00	23.80	-0.06	10.19	Average
11	2.721	36.15	-19.85	56.00	26.19	-0.10	10.06	QP
12	2.721	21.15	-24.85	46.00	11.19	-0.10	10.06	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.175	47.97	-16.75	64.72	37.51	0.04	10.42	QP
2	0.175	33.77	-20.95	54.72	23.31	0.04	10.42	Average
3	0.200	48.57	-15.05	63.62	38.10	0.05	10.42	QP
4	0.200	40.67	-12.95	53.62	30.20	0.05	10.42	Average
5	0.233	45.51	-16.84	62.35	35.11	0.01	10.39	QP
6 *	0.233	41.31	-11.04	52.35	30.91	0.01	10.39	Average
7	0.491	36.94	-19.20	56.14	26.80	-0.08	10.22	QP
8	0.491	27.44	-18.70	46.14	17.30	-0.08	10.22	Average
9	0.576	41.90	-14.10	56.00	31.79	-0.08	10.19	QP
10	0.576	28.90	-17.10	46.00	18.79	-0.08	10.19	Average
11	2.779	38.53	-17.47	56.00	28.60	-0.13	10.06	QP
12	2.779	21.43	-24.57	46.00	11.50	-0.13	10.06	Average

Note:

- Level(dBuV) = Read Level(dBuV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBuV) – Limit Line(dBuV)



### Appendix C. Radiated Spurious Emission

Test Engineer :	Carry Xu	Relative Humidity :	41~42%
		Temperature :	22~23°C

Channel	Power setting
11b CH01	0
11b CH06	6
11b CH10	10
11b CH11	22
11g CH01	12
11g CH06	0
11g CH11	13
11n20 CH01	16
11n20 CH02	9
11n20 CH06	0
11n20 CH11	14
11n40 CH03	26
11n40 CH06	15
11n40 CH09	18



### Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	802.11b	01	2412	1Mbps	-
Mode 2	2400-2483.5	802.11b	06	2437	1Mbps	-
Mode 3	2400-2483.5	802.11b	10	2457	1Mbps	-
Mode 4	2400-2483.5	802.11b	11	2462	1Mbps	-
Mode 5	2400-2483.5	802.11g	01	2412	6Mbps	-
Mode 6	2400-2483.5	802.11g	06	2437	6Mbps	-
Mode 7	2400-2483.5	802.11g	11	2462	6Mbps	-
Mode 8	2400-2483.5	802.11n HT20	01	2412	MCS0	-
Mode 9	2400-2483.5	802.11n HT20	02	2417	MCS0	-
Mode 10	2400-2483.5	802.11n HT20	06	2437	MCS0	-
Mode 11	2400-2483.5	802.11n HT20	11	2462	MCS0	-
Mode 12	2400-2483.5	802.11n HT40	03	2422	MCS0	-
Mode 13	2400-2483.5	802.11n HT40	06	2437	MCS0	-
Mode 14	2400-2483.5	802.11n HT40	09	2452	MCS0	-
Mode 15	2400-2483.5	802.11n HT40	06	2437	MCS0	LF





### Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2389.95	50.64	54.00	-3.36	H	AVERAGE	Pass	Band Edge
	802.11b	01	4824.00	49.76	54.00	-4.24	H	AVERAGE	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
	802.11b	06	4874.00	50.65	54.00	-3.35	H	AVERAGE	Pass	Harmonic
3	802.11b	10	2483.56	45.72	54.00	-8.28	H	AVERAGE	Pass	Band Edge
	802.11b	10	4914.00	50.83	54.00	-3.17	H	AVERAGE	Pass	Harmonic
4	802.11b	11	2487.70	45.85	54.00	-8.15	H	AVERAGE	Pass	Band Edge
	802.11b	11	4924.00	50.47	54.00	-3.53	H	AVERAGE	Pass	Harmonic
5	802.11g	01	2389.95	52.00	54.00	-2.00	H	AVERAGE	Pass	Band Edge
	802.11g	01	4824.00	46.66	74.00	-27.34	H	PEAK	Pass	Harmonic
6	802.11g	06	2389.30	71.05	74.00	-2.95	H	PEAK	Pass	Band Edge
	802.11g	06	4874.00	41.42	54.00	-12.58	H	AVERAGE	Pass	Harmonic
7	802.11g	11	2483.62	72.09	74.00	-1.91	H	PEAK	Pass	Band Edge
	802.11g	11	4924.00	37.46	54.00	-16.54	H	AVERAGE	Pass	Harmonic
8	802.11n HT20	01	2389.95	52.71	54.00	-1.29	H	AVERAGE	Pass	Band Edge
	802.11n HT20	01	4824.00	44.62	74.00	-29.38	H	Peak	Pass	Harmonic
9	802.11n HT20	02	2389.95	52.36	54.00	-1.64	H	AVERAGE	Pass	Band Edge
	802.11n HT20	02	7251.00	41.76	74.00	-32.24	H	PEAK	Pass	Harmonic
10	802.11n HT20	06	2388.65	71.11	74.00	-2.89	H	PEAK	Pass	Band Edge
	802.11n HT20	06	4874.00	38.79	54.00	-15.21	H	AVERAGE	Pass	Harmonic
11	802.11n HT20	11	2483.50	52.95	54.00	-1.05	H	AVERAGE	Pass	Band Edge
	802.11n HT20	11	4924.00	36.98	54.00	-17.02	H	AVERAGE	Pass	Harmonic
12	802.11n HT40	03	2389.95	52.81	54.00	-1.19	H	AVERAGE	Pass	Band Edge
	802.11n HT40	03	4844.00	42.16	74.00	-31.84	H	PEAK	Pass	Harmonic
13	802.11n HT40	06	2389.95	53.00	54.00	-1.00	H	AVERAGE	Pass	Band Edge
	802.11n HT40	06	4874.00	44.30	74.00	-29.70	H	PEAK	Pass	Harmonic
14	802.11n HT40	09	2483.56	52.82	54.00	-1.18	H	AVERAGE	Pass	Band Edge
	802.11n HT40	09	4904.00	45.45	74.00	-28.55	H	PEAK	Pass	Harmonic
15	802.11n HT40	06	73.65	27.44	40	-12.56	H	PEAK	Pass	LF

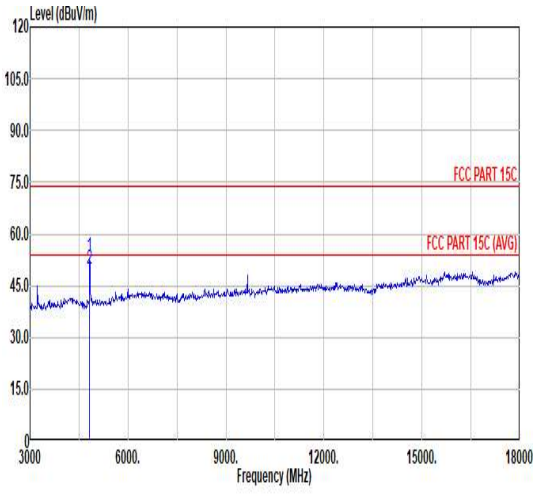
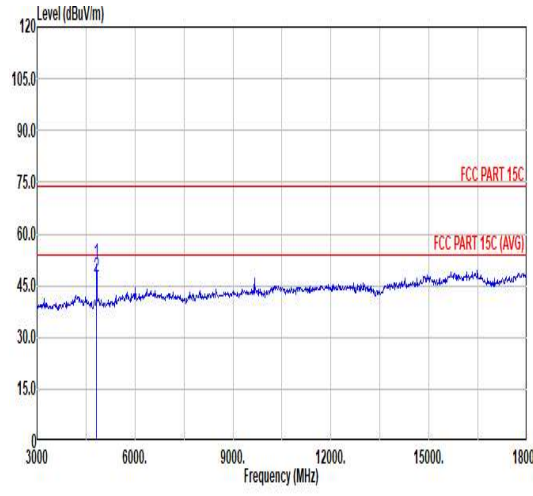


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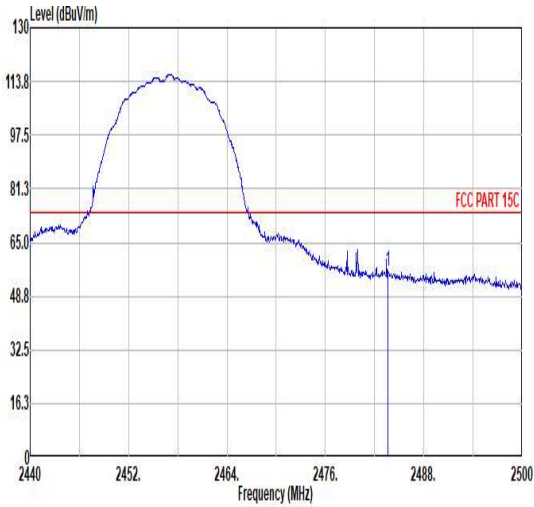
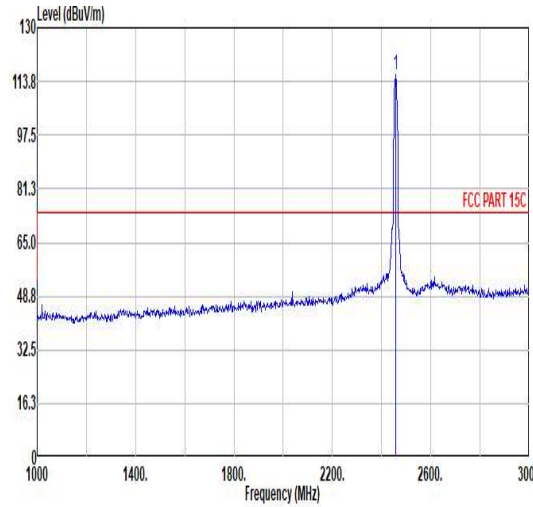
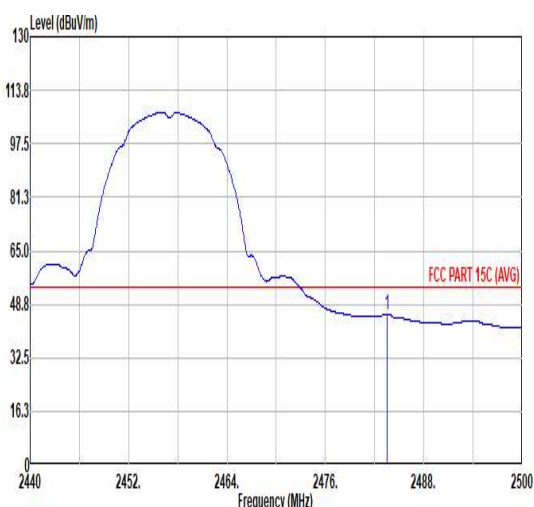
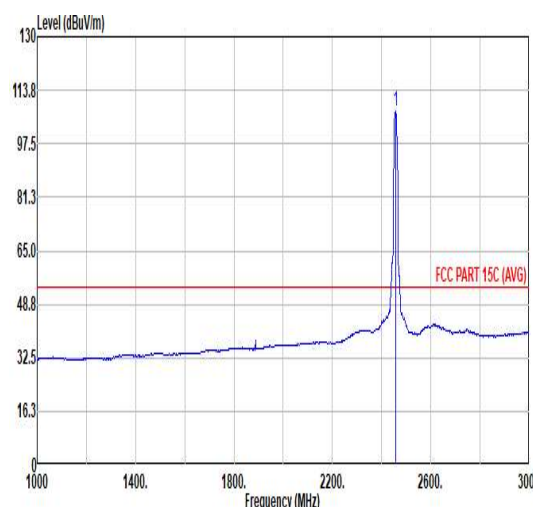


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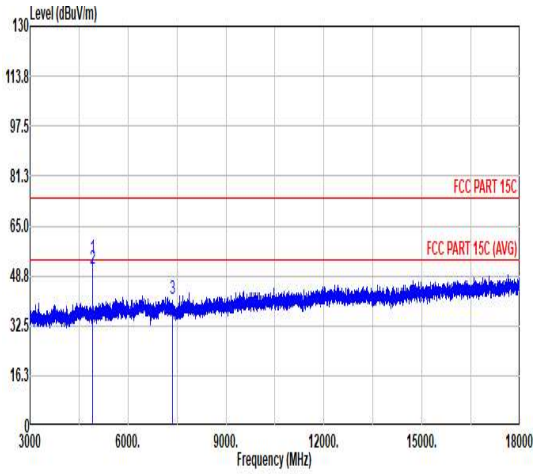
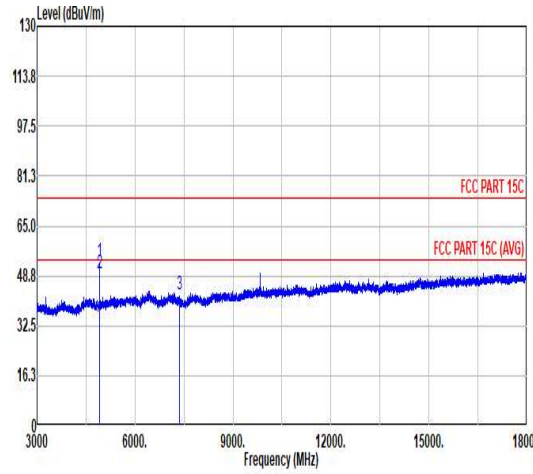


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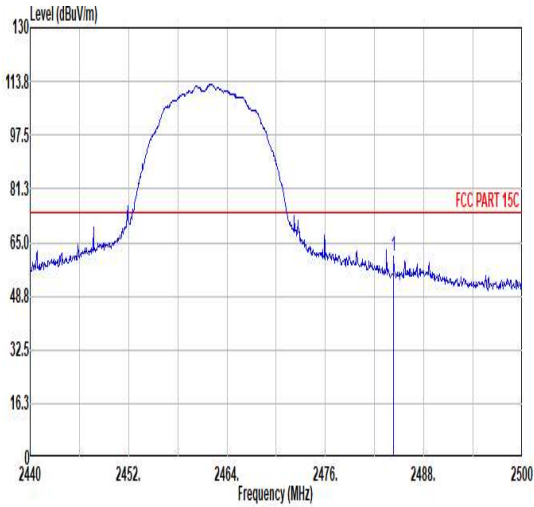
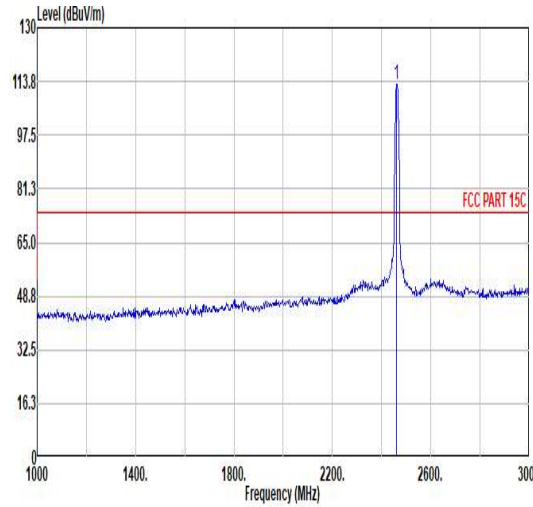
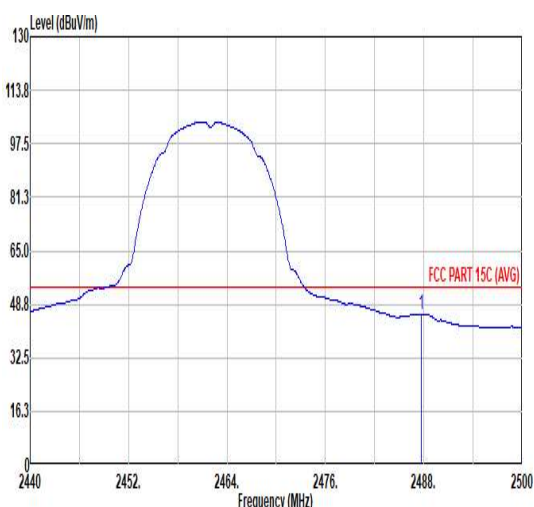
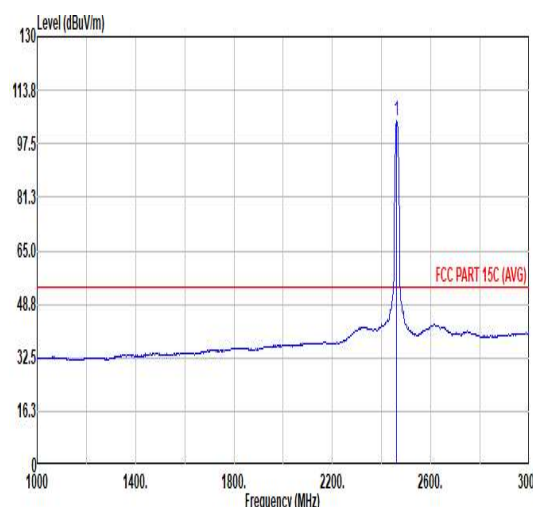
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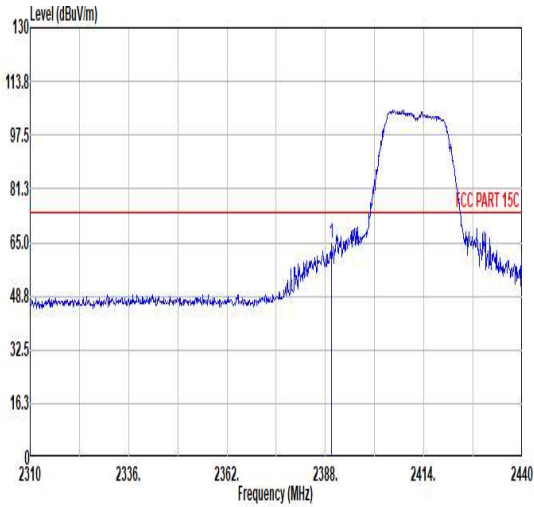
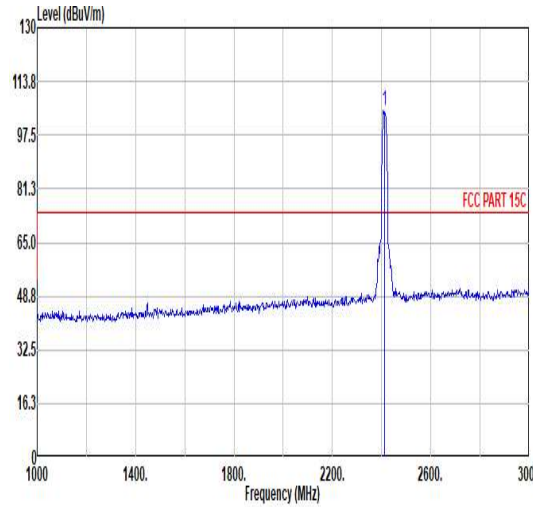
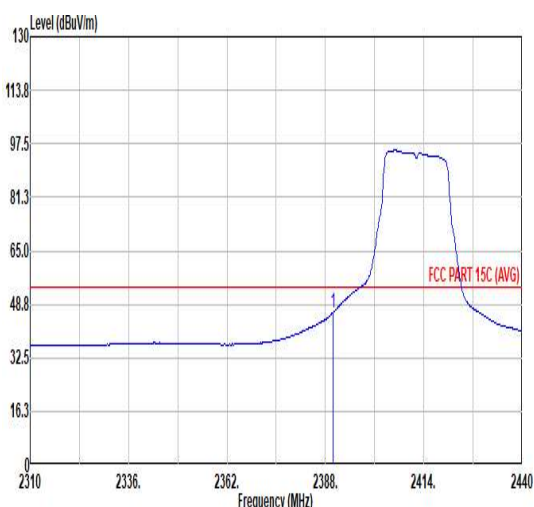
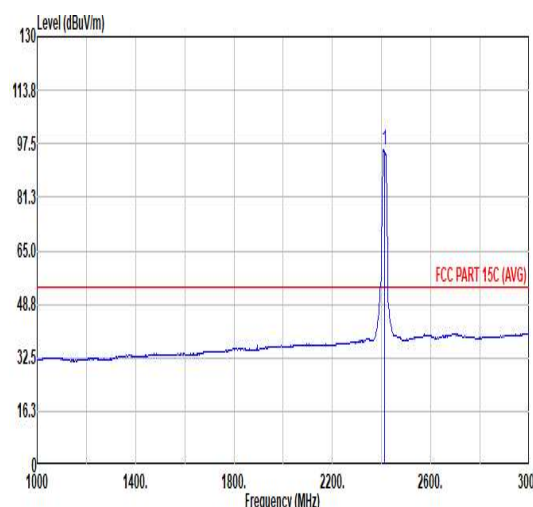


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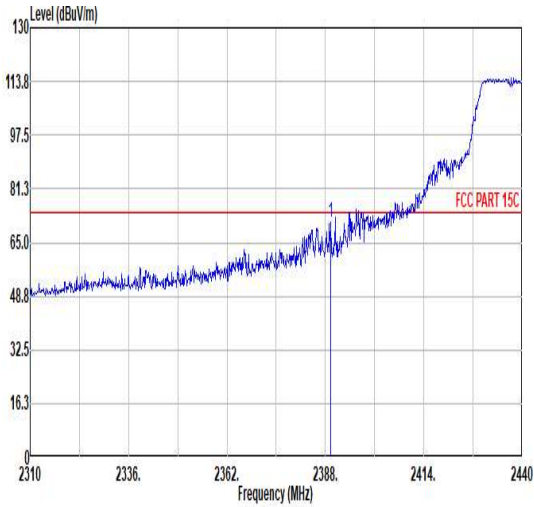
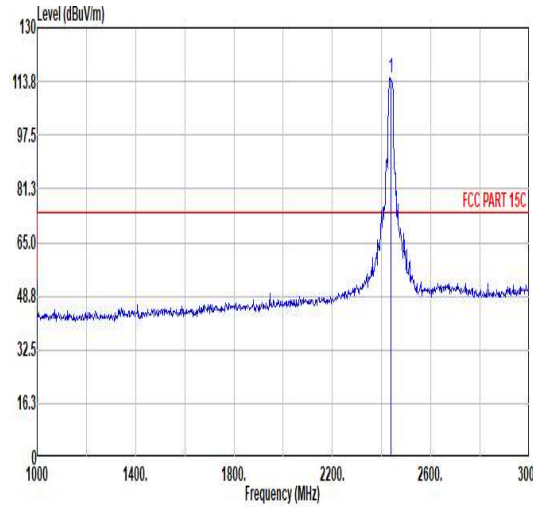
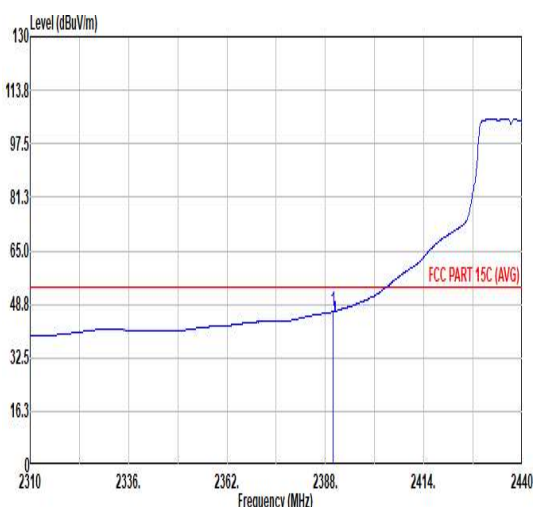
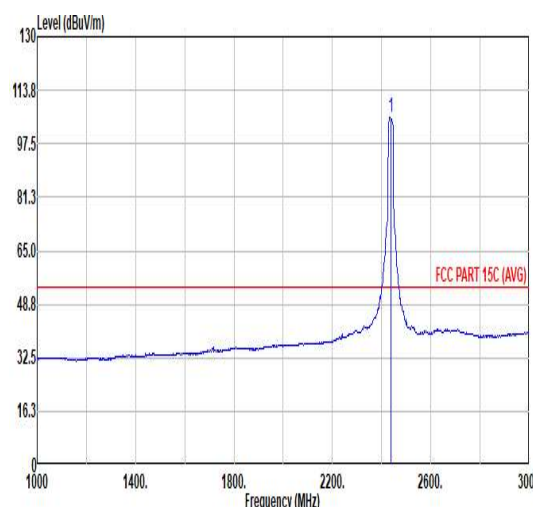


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Avg	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization, averaged. The plot shows a signal peak between 2388 MHz and 2414 MHz. A red horizontal line indicates the FCC PART 15C (AVG) limit at approximately 54 dBuV/m. The signal level reaches about 95 dBuV/m.</p> <table border="1"> <thead> <tr> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.95</td> <td>46.20</td> <td>54.00</td> <td>-7.80</td> <td>37.23</td> <td>32.38</td> <td>7.11</td> <td>36.52</td> <td>6.00</td> <td>325</td> <td>86</td> <td>AVERAGE</td> </tr> </tbody> </table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	1	2389.95	46.20	54.00	-7.80	37.23	32.38	7.11	36.52	6.00	325	86	AVERAGE	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization, averaged. The plot shows a sharp signal peak at 2412 MHz. A red horizontal line indicates the FCC PART 15C (AVG) limit at approximately 54 dBuV/m. The signal level reaches about 95 dBuV/m.</p> <table border="1"> <thead> <tr> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2412.00</td> <td>95.73</td> <td>-----</td> <td>-----</td> <td>86.79</td> <td>32.39</td> <td>7.13</td> <td>36.58</td> <td>6.00</td> <td>325</td> <td>86</td> <td>AVERAGE</td> </tr> </tbody> </table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	1	2412.00	95.73	-----	-----	86.79	32.39	7.13	36.58	6.00	325	86	AVERAGE
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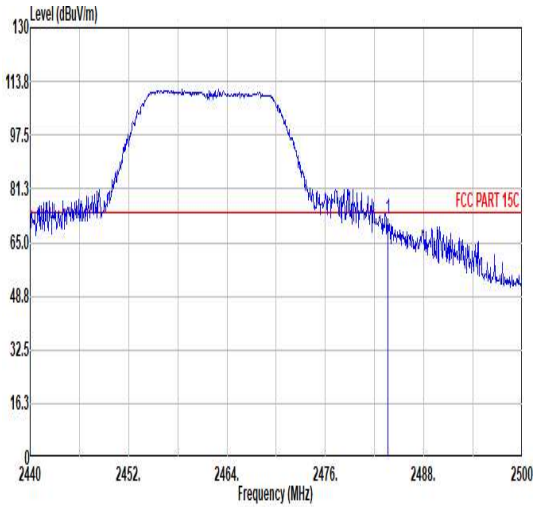
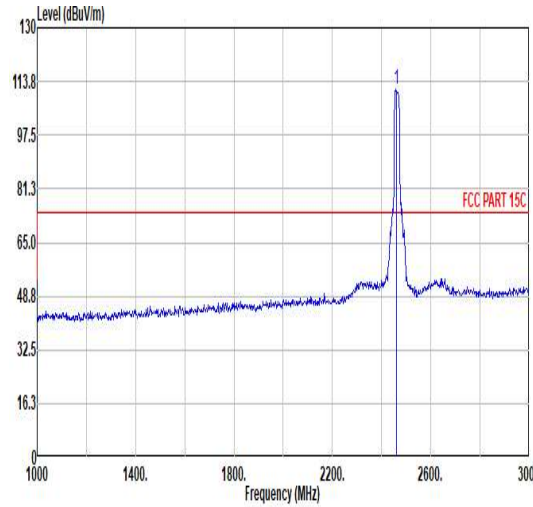
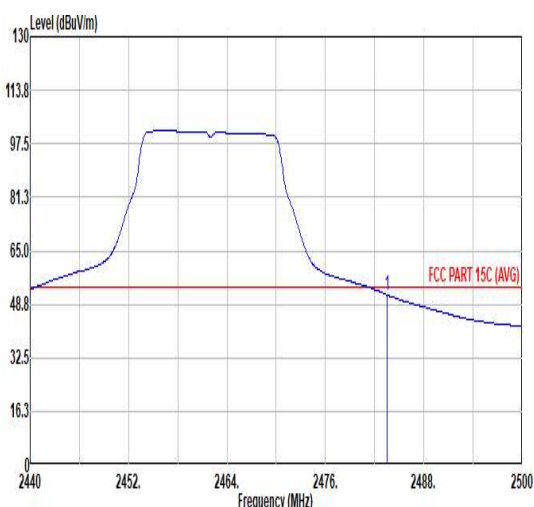
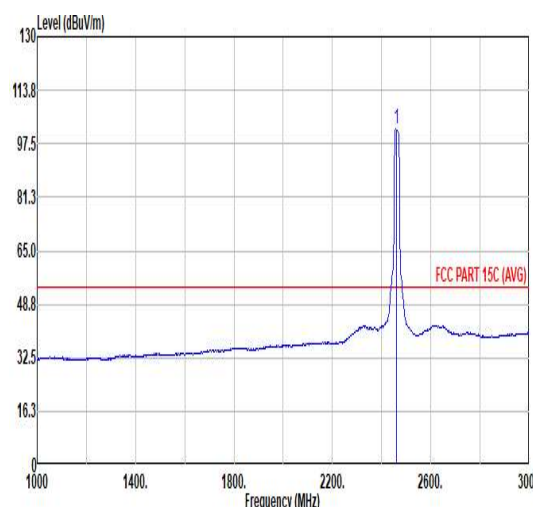


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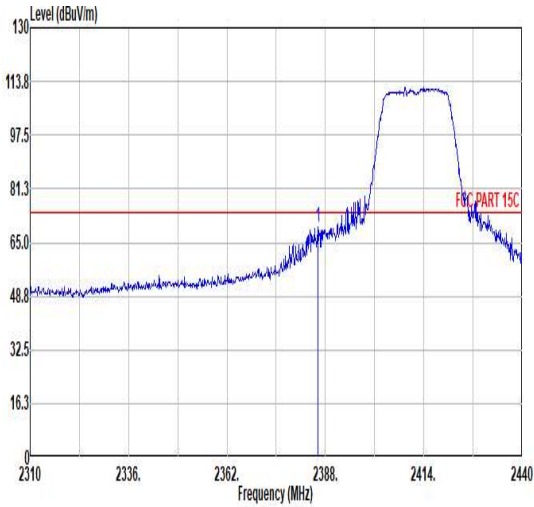
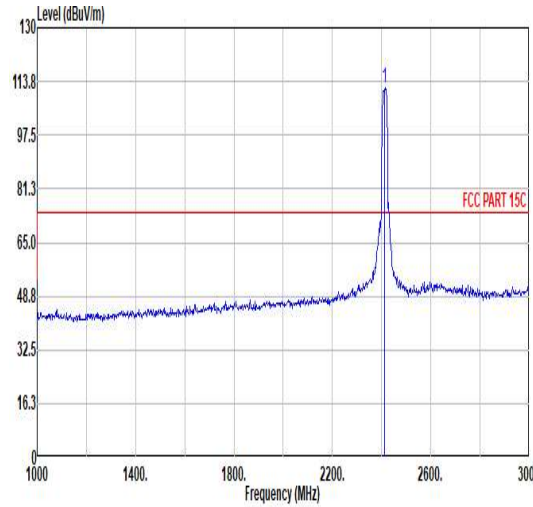
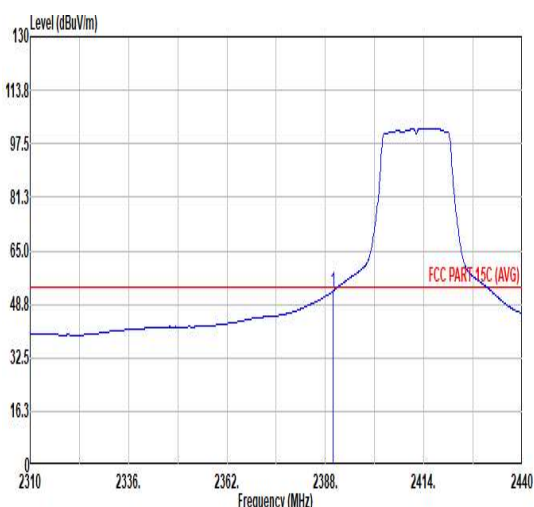
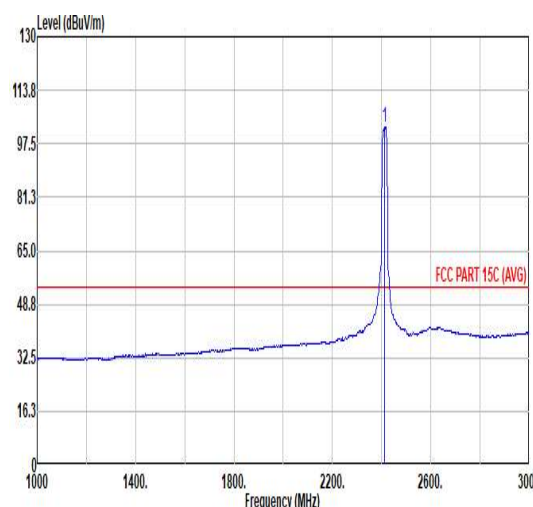


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