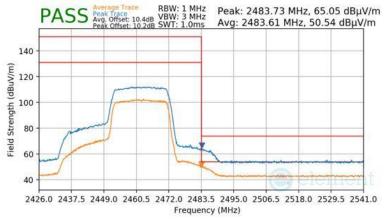
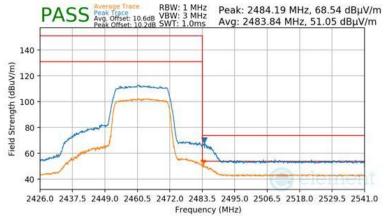


802.11ax-SU	
MCS2	
3 Meters	
2462MHz	
11	



Plot 7-527 Radiated Restricted Upper Band Edge Measurement Antenna 2a

802.11ax-SU	
MCS4	
3 Meters	
2462MHz	
11	

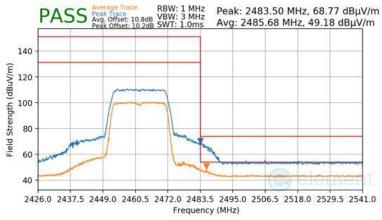


Plot 7-528 Radiated Restricted Upper Band Edge Measurement Antenna 2a

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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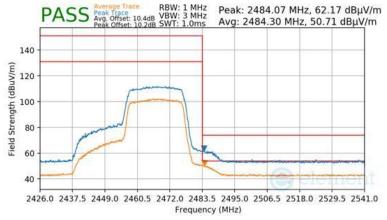


802.11ax-SU
MCS9
3 Meters
2462MHz
11



Plot 7-529 Radiated Restricted Upper Band Edge Measurement Antenna 2a

802.11ax-SU	
MCS2	
3 Meters	
2467MHz	
12	

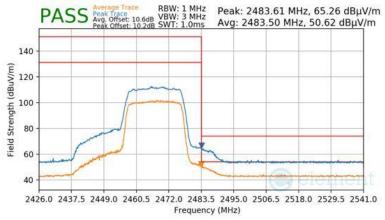


Plot 7-530 Radiated Restricted Upper Band Edge Measurement Antenna 2a

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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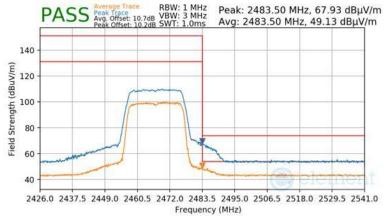


8	02.11ax-SU
N	ICS4
3	Meters
2	467MHz
1	2



Plot 7-531 Radiated Restricted Upper Band Edge Measurement Antenna 2a

802.11ax-SU	
MCS9	
3 Meters	
2467MHz	
12	



Plot 7-532 Radiated Restricted Upper Band Edge Measurement Antenna 2a

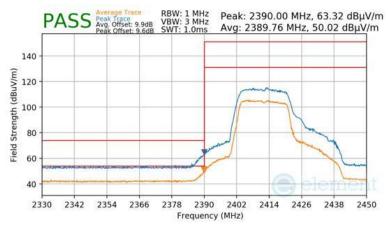
FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 325 of 372
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7.7.6 CDD Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

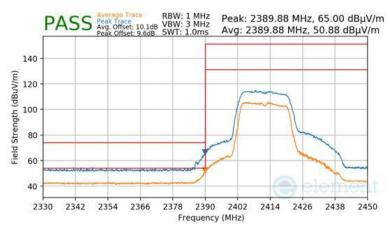
Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11n	
MCS10	
3 Meters	
2412MHz	
1	



Plot 7-533 Radiated Restricted Lower Band Edge Measurement CDD

802.11n	
MCS12	
3 Meters	
2412MHz	
1	

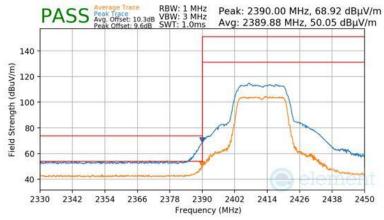


Plot 7-534 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 200 of 270
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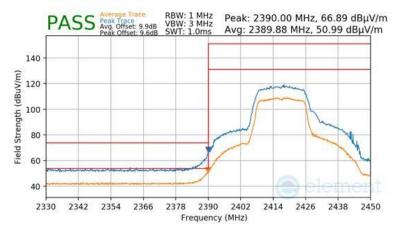


802.11n
MCS15
3 Meters
2412MHz
1



Plot 7-535 Radiated Restricted Lower Band Edge Measurement CDD

802.11n	
MCS10	
3 Meters	
2417MHz	
2	

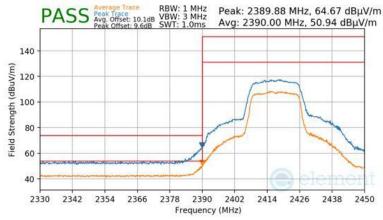


Plot 7-536 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	Test Dates: EUT Type:	
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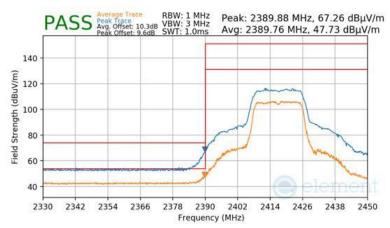


802.11n	
MCS12	
3 Meters	
2417MHz	
2	



Plot 7-537 Radiated Restricted Lower Band Edge Measurement CDD

802.11n	
MCS15	
3 Meters	
2417MHz	
2	

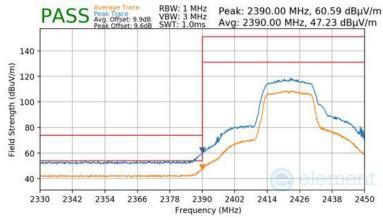


Plot 7-538 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 328 of 372
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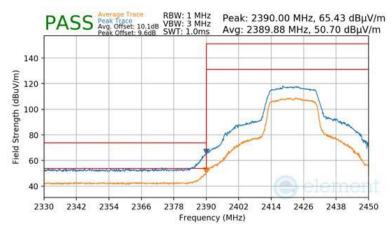


802.11n	
MCS10	
3 Meters	
2422MHz	
3	



Plot 7-539 Radiated Restricted Lower Band Edge Measurement CDD

802.11n	
MCS12	
3 Meters	
2422MHz	
3	

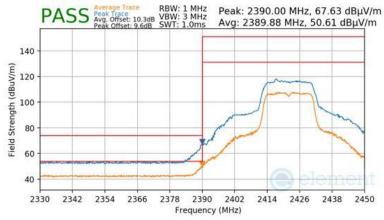


Plot 7-540 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 329 of 372
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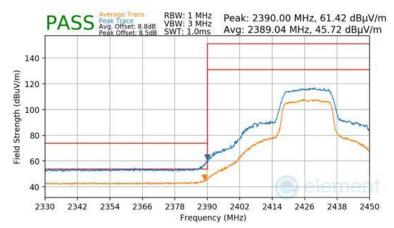


802.11n	
MCS15	
3 Meters	
2422MHz	
3	



Plot 7-541 Radiated Restricted Lower Band Edge Measurement CDD

802.11n	
MCS10	
3 Meters	
2427MHz	
4	

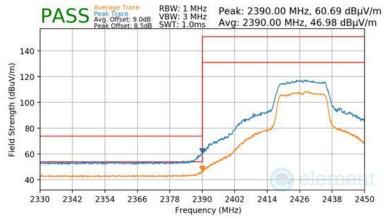


Plot 7-542 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 330 of 372
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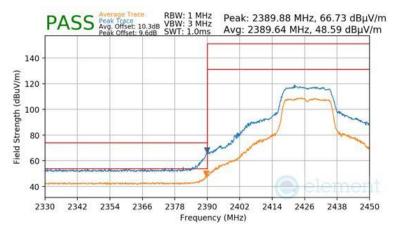


802.11n	
MCS12	
3 Meters	
2427MHz	
4	



Plot 7-543 Radiated Restricted Lower Band Edge Measurement CDD

802.11n	
MCS15	·
3 Meters	
2427MHz	
4	

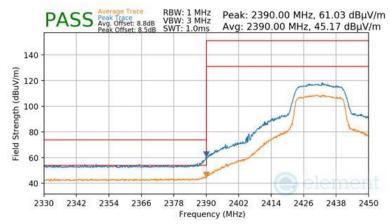


Plot 7-544 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 331 of 372
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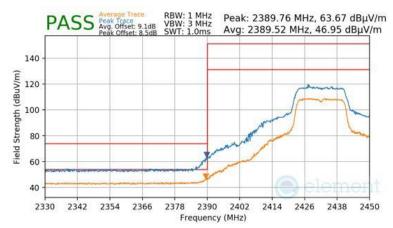


802.11n	
MCS10	
3 Meters	
2432MHz	
5	



Plot 7-545 Radiated Restricted Lower Band Edge Measurement CDD

802.11n	
MCS15	
3 Meters	
2432MHz	
5	

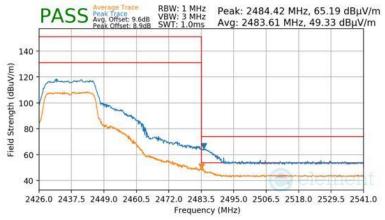


Plot 7-546 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Do ac 222 of 272
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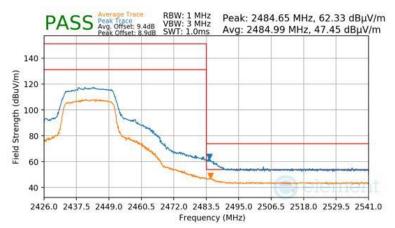


802.11n	
MCS15	
3 Meters	
2437MHz	
6	



Plot 7-547 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS12	
3 Meters	
2442MHz	
7	

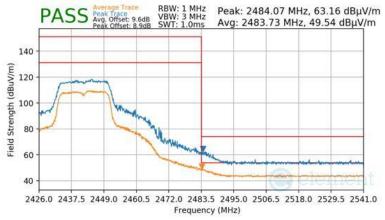


Plot 7-548 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 333 of 372
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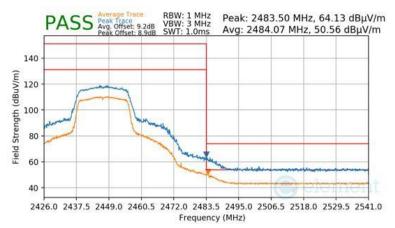


802.11n	
MCS15	
3 Meters	
2442MHz	
7	



Plot 7-549 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS10	
3 Meters	
2447MHz	
8	

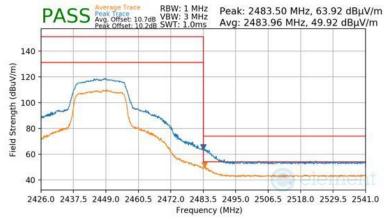


Plot 7-550 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 334 of 372
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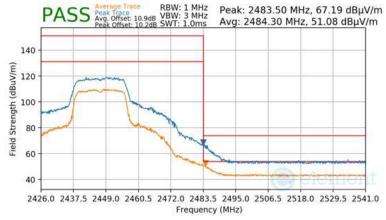


802.11n	
MCS12	
3 Meters	
2447MHz	
8	



Plot 7-551 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS15	
3 Meters	
2447MHz	
8	

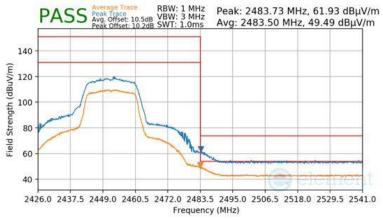


Plot 7-552 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 335 of 372
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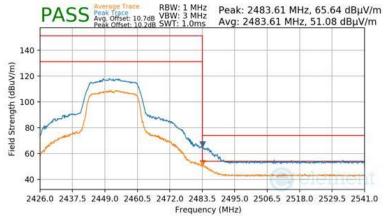


802.11n	
MCS10	
3 Meters	
2452MHz	
9	



Plot 7-553 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS12	
3 Meters	
2452MHz	
9	

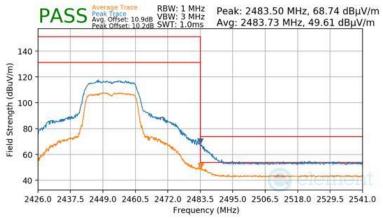


Plot 7-554 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 336 of 372
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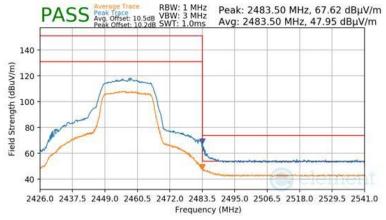


802.11n	
MCS15	
3 Meters	
2452MHz	
9	



Plot 7-555 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS10	
3 Meters	
2457MHz	
10	

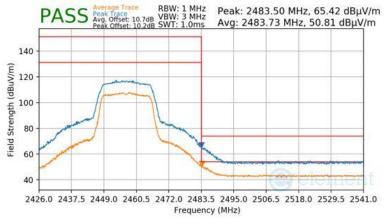


Plot 7-556 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 337 of 372
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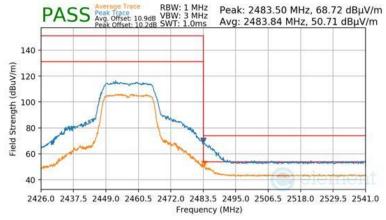


802.11n	
MCS12	
3 Meters	
2457MHz	
10	



Plot 7-557 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS15	
3 Meters	
2457MHz	
10	

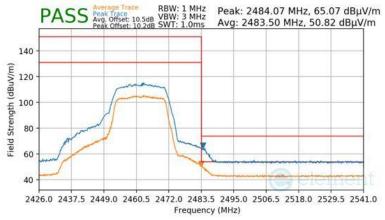


Plot 7-558 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 338 of 372
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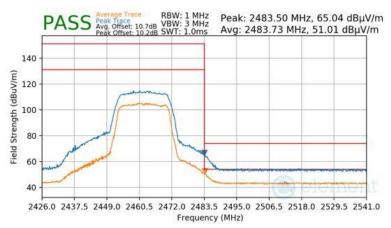


802.11n	
MCS10	
3 Meters	
2462MHz	
11	



Plot 7-559 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS12	
3 Meters	
2462MHz	
11	

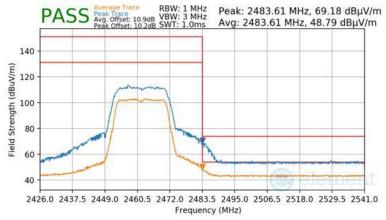


Plot 7-560 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Domo 220 of 272
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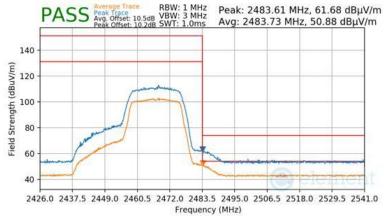


802.11n	
MCS15	
3 Meters	
2462MHz	
11	



Plot 7-561 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS10	
3 Meters	
2467MHz	
12	

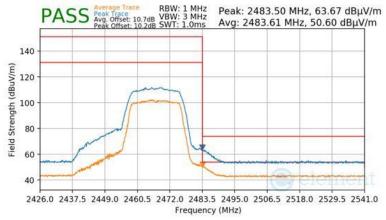


Plot 7-562 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Dags 240 of 272
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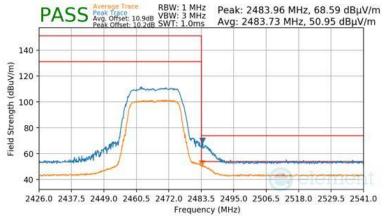


802.11n	
MCS12	
3 Meters	
2467MHz	
12	



Plot 7-563 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS15	
3 Meters	
2467MHz	
12	

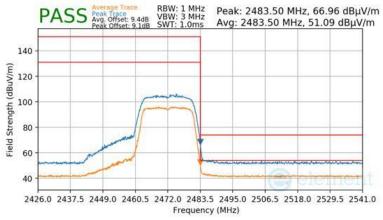


Plot 7-564 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 341 of 372
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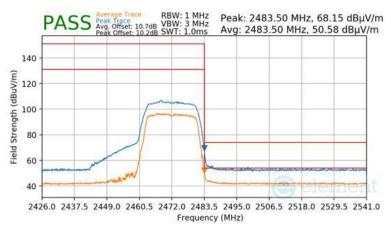


802.11n	
MCS10	
3 Meters	
2472MHz	
13	



Plot 7-565 Radiated Restricted Upper Band Edge Measurement CDD

802.11n	
MCS12	
3 Meters	
2472MHz	
13	

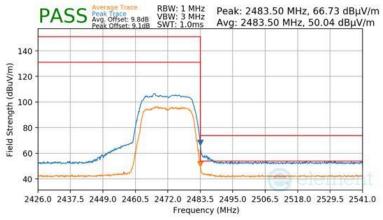


Plot 7-566 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 242 of 272
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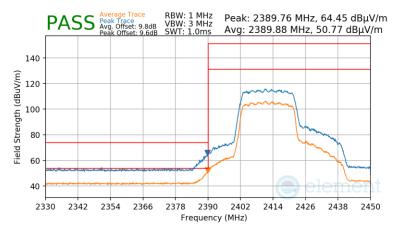


802.11n	
MCS15	
3 Meters	
2472MHz	
13	



Plot 7-567 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS2	
3 Meters	
2412MHz	
1	

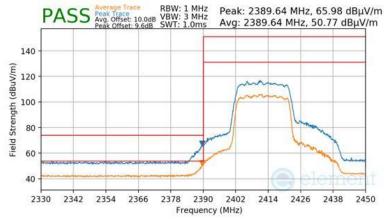


Plot 7-568 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 343 of 372
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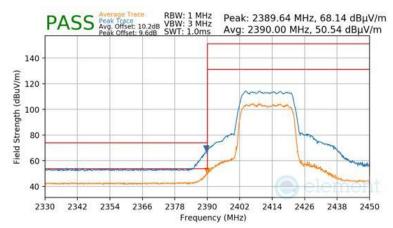


	802.11ax-SU
	MCS4
	3 Meters
	2412MHz
Ī	1



Plot 7-569 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU	
MCS9	
3 Meters	
2412MHz	
1	

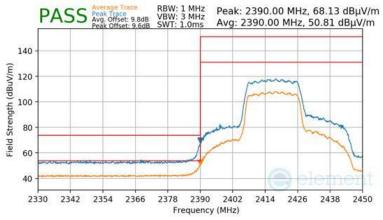


Plot 7-570 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 344 of 372
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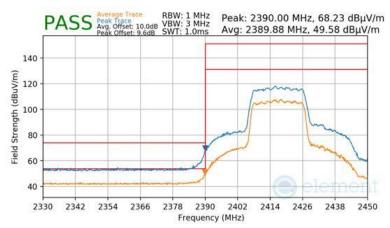


802.11ax-SU	
MCS2	
3 Meters	
2417MHz	
2	



Plot 7-571 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU	
MCS4	
3 Meters	
2417MHz	
2	

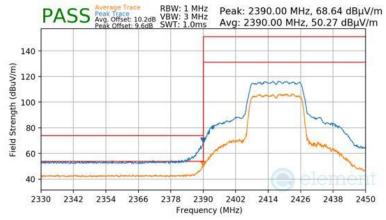


Plot 7-572 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 245 of 272
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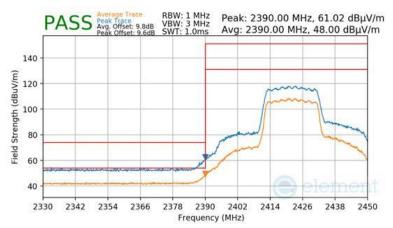


802.	11ax-SU	
MCS	39	
3 Me	eters	
2417	MHz	
2		



Plot 7-573 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU	
MCS2	
3 Meters	
2422MHz	
3	

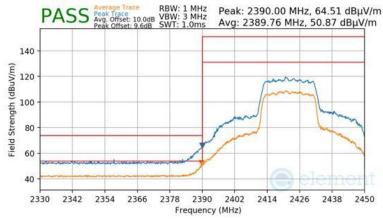


Plot 7-574 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 346 of 372
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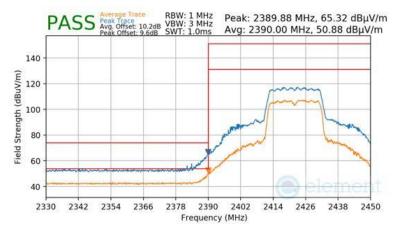


802.11ax-S	SU
MCS4	
3 Meters	
2422MHz	
3	



Plot 7-575 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU	
MCS9	
3 Meters	
2422MHz	
3	

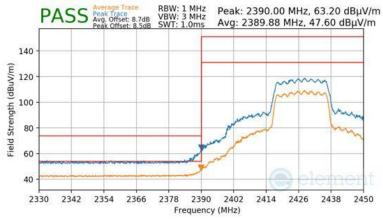


Plot 7-576 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Done 247 of 272
1C2311270068-14.BCG	1/8/2024 - 3/15/2024	Tablet Device	Page 347 of 372

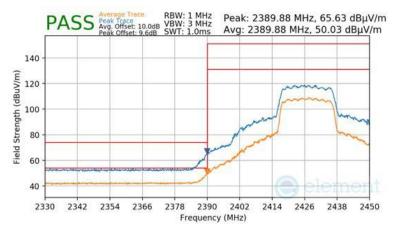


802.11ax-SU	
MCS2	
3 Meters	
2427MHz	
4	



Plot 7-577 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU
MCS4
3 Meters
2427MHz
4

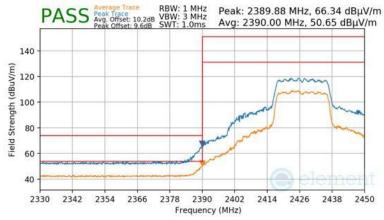


Plot 7-578 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 348 of 372
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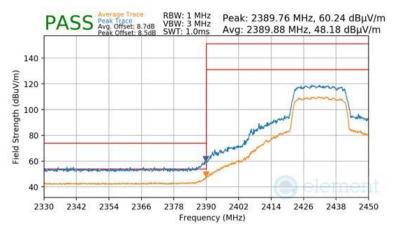


802.11ax-SU	
MCS9	
3 Meters	
2427MHz	
4	



Plot 7-579 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU	
MCS2	
3 Meters	
2432MHz	
5	

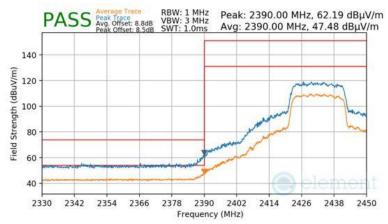


Plot 7-580 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 349 of 372
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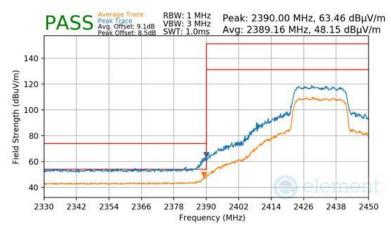


802.11ax-SU	
MCS4	
3 Meters	
2432MHz	
5	



Plot 7-581 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU	
MCS9	
3 Meters	
2432MHz	
5	

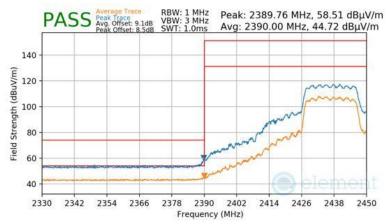


Plot 7-582 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 350 of 372
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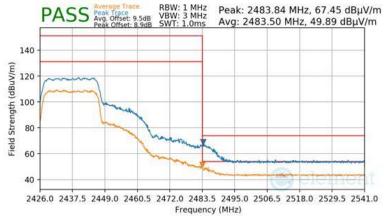


	802.11ax-SU
	MCS9
	3 Meters
	2437MHz
•	6



Plot 7-583 Radiated Restricted Lower Band Edge Measurement CDD

802.11ax-SU	
MCS9	
3 Meters	
2437MHz	
6	

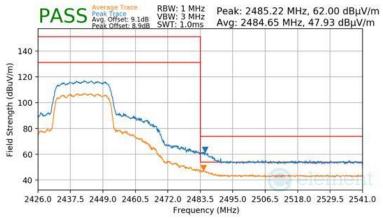


Plot 7-584 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 351 of 372
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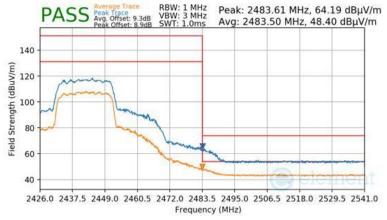


802.11ax-SU
MCS2
3 Meters
2442MHz
7



Plot 7-585 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS4	
3 Meters	
2442MHz	
7	

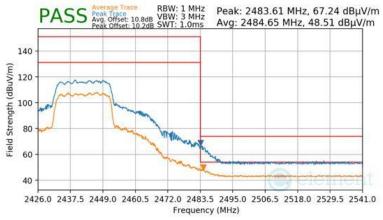


Plot 7-586 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 352 of 372
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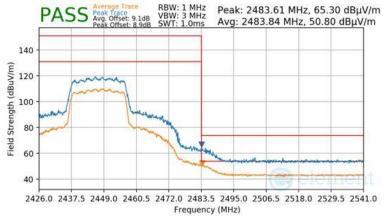


802.11ax-SU	
MCS9	
3 Meters	
2442MHz	
7	



Plot 7-587 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS2	
3 Meters	
2447MHz	
8	

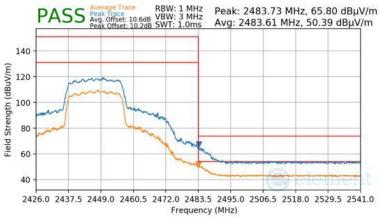


Plot 7-588 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 252 of 272
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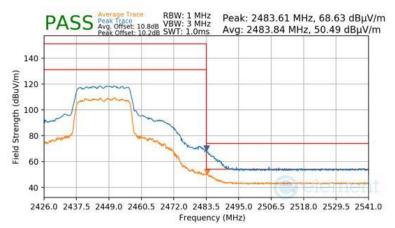


	802.11ax-SU
	MCS4
	3 Meters
	2447MHz
_	8



Plot 7-589 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS9	
3 Meters	
2447MHz	
8	

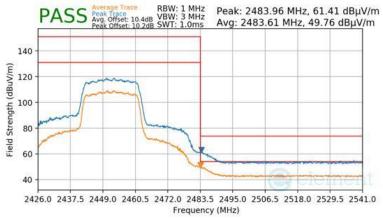


Plot 7-590 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Domo 254 of 272
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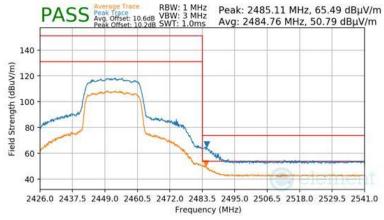


802.11ax-SU	
MCS2	
3 Meters	
2452MHz	
9	



Plot 7-591 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS4	
3 Meters	
2452MHz	
9	

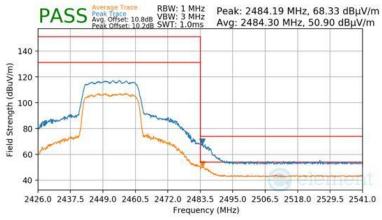


Plot 7-592 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 355 of 372
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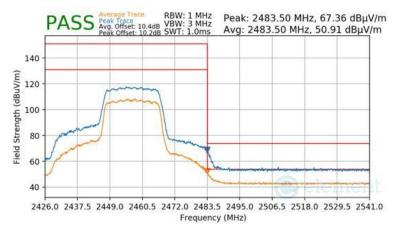


802.11ax-SU	
MCS9	
3 Meters	
2452MHz	
9	



Plot 7-593 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS2	
3 Meters	
2457MHz	
10	

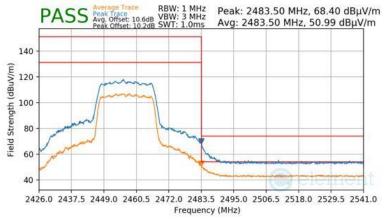


Plot 7-594 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 256 of 272
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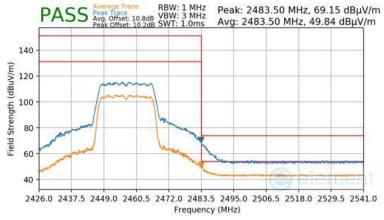


802.11ax-SU	
MCS4	
3 Meters	
2457MHz	
10	



Plot 7-595 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS9	
3 Meters	
2457MHz	
10	

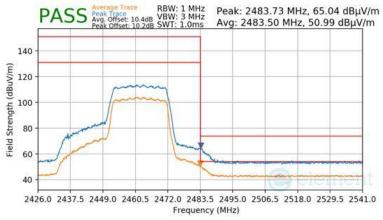


Plot 7-596 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 357 of 372
1C2311270068-14.BCG	1/8/2024 - 3/15/2024	Tablet Device	Page 357 01 372

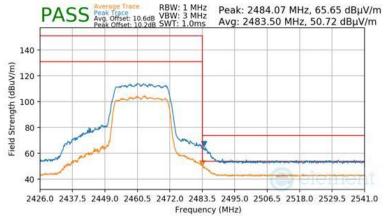


802.11ax-S	U
MCS2	
3 Meters	
2462MHz	
11	



Plot 7-597 Radiated Restricted Upper Band Edge Measurement CDD

802.11ax-SU	
MCS4	
3 Meters	
2462MHz	
11	



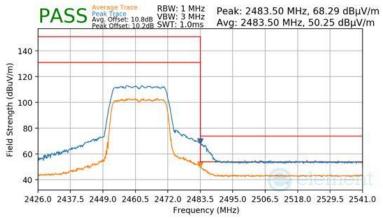
Plot 7-598 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 358 of 372
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Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

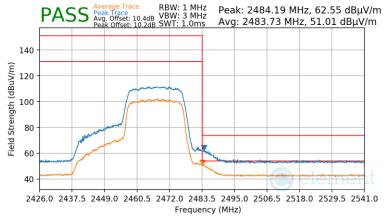
802.11ax-SU	
MCS9	
3 Meters	
2462MHz	
11	



Plot 7-599 Radiated Restricted Upper Band Edge Measurement CDD

Mode Data Rate Distance of Measurement Operating Frequency Channel

802.11ax-SU	
MCS2	
3 Meters	
2467MHz	
12	



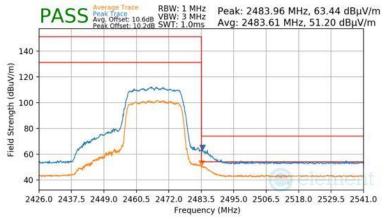
Plot 7-600 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Do ac 250 of 272
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Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

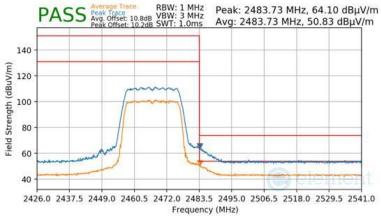
802.11ax-SU
MCS4
3 Meters
2467MHz
12



Plot 7-601 Radiated Restricted Upper Band Edge Measurement CDD

Mode Data Rate Distance of Measurement Operating Frequency Channel

802.11ax-SU	
MCS9	
3 Meters	
2467MHz	
12	



Plot 7-602 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 360 of 372
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7.8 Radiated Spurious Emissions – Below 1GHz §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-66 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [µV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-66. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
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Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

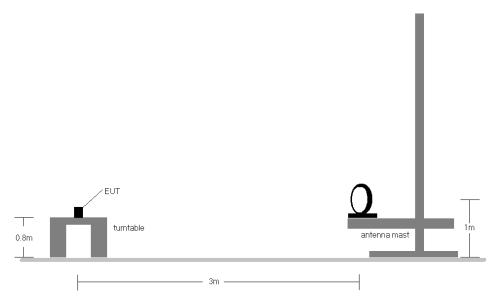


Figure 7-7. Radiated Test Setup < 30Mhz

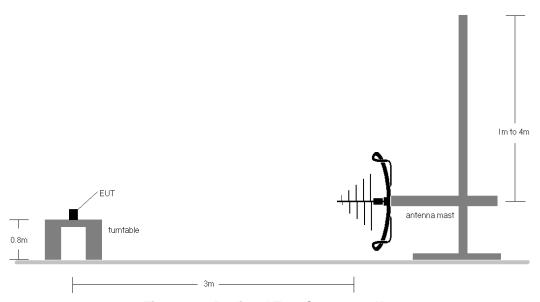


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
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Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-66.
- The broadband receive antenna is manipulated through vertical and horizontal polarizations during the
 tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was
 positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst
 case emissions.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification.
- 10. The unit was tested with all possible modes and only the highest emission is reported.
- 11. All antenna configurations were investigated and only the worst case is reported.

Sample Calculations

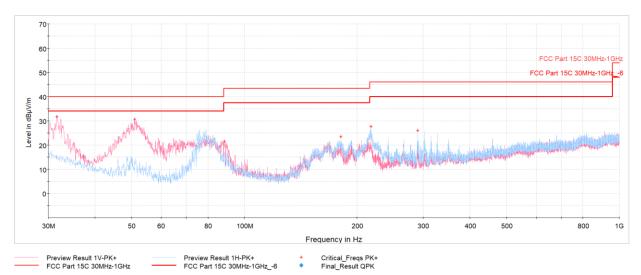
Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
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CDD Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



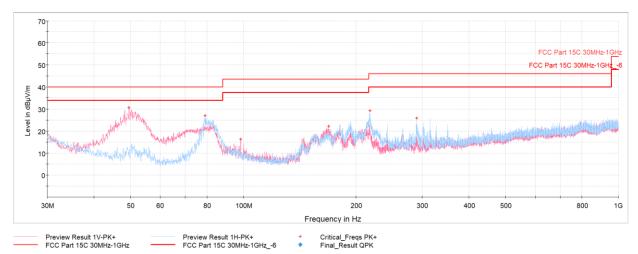
Plot 7-603. Radiated Spurious Emissions below 1GHz CDD 11n Ch.6, with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
31.70	Max-Peak	V	100	224	-59.09	-16.26	31.65	40.00	-8.35
51.00	Max-Peak	V	100	283	-53.25	-23.16	30.59	40.00	-9.41
88.49	Max-Peak	V	100	230	-62.57	-22.85	21.58	43.52	-21.94
180.98	Max-Peak	Н	100	130	-63.94	-19.52	23.54	43.52	-19.98
217.79	Max-Peak	Н	100	157	-61.35	-18.06	27.59	46.02	-18.43
290.40	Max-Peak	Н	100	113	-65.85	-15.15	26.00	46.02	-20.02

Table 7-67. Radiated Spurious Emissions below 1GHz CDD 11n Ch.6, with AC/DC Adapter

FCC ID: BCGA2837 IC: 579C-A2837	element	element MEASUREMENT REPORT (CERTIFICATION)	
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Plot 7-604. Radiated Spurious Emissions below 1GHz CDD 11ax - SU Ch.6, with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
49.59	Max-Peak	V	100	235	-53.19	-23.20	30.61	40.00	-9.39
78.99	Max-Peak	Н	200	89	-57.08	-22.93	26.99	40.00	-13.01
98.48	Max-Peak	V	100	188	-68.73	-22.02	16.25	43.52	-27.27
168.86	Max-Peak	Н	200	190	-64.70	-20.17	22.13	43.52	-21.39
217.79	Max-Peak	Н	100	184	-59.76	-18.06	29.18	46.02	-16.84
290.20	Max-Peak	Н	100	99	-65.97	-15.16	25.87	46.02	-20.15

Table 7-68. Radiated Spurious Emissions below 1GHz CDD 11ax - SU Ch.6, with AC/DC Adapter

FCC ID: BCGA2837 IC: 579C-A2837	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 365 of 372
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7.9 AC Line-Conducted Emissions Measurement §15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)				
(1911 12)	Quasi-peak	Average			
0.15 – 0.5	66 to 56*	56 to 46*			
0.5 – 5	56	46			
5 – 30	60	50			

Table 7-69. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Subclause 6.2

Test Settings

Quasi-Peak Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Average Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- Trace was allowed to stabilize

FCC ID: BCGA2837 IC: 579C-A2837	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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^{*}Decreases with the logarithm of the frequency.



Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

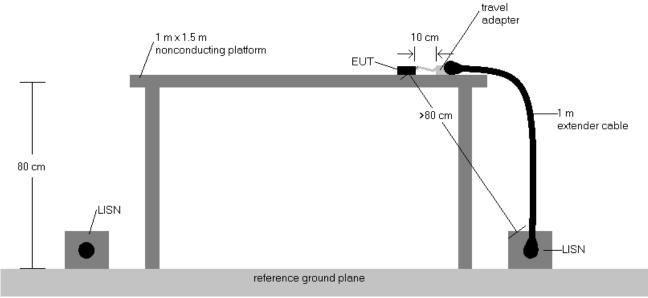


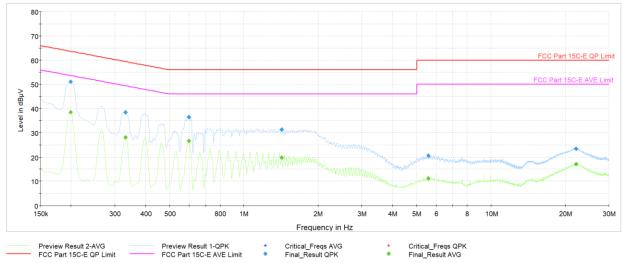
Figure 7-9. Test Instrument & Measurement Setup

Test Notes

- 1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- 2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
- 3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- 4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
- 6. Margin (dB) = QP/AV Level (dB μ V) QP/AV Limit (dB μ V)
- 7. Traces shown in plot are made using quasi peak and average detectors.
- 8. Deviations to the Specifications: None.
- 9. The unit was tested with all possible modes and only the highest emission is reported.

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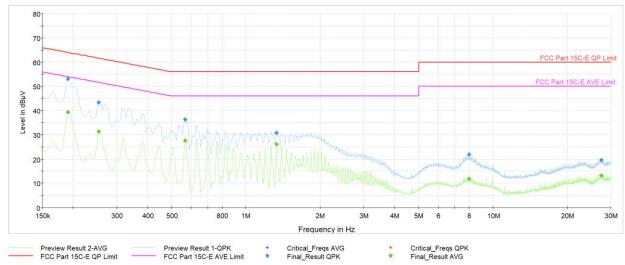
Plot 7-605. AC Line Conducted Plot with CDD 11n Ch.6 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.200	FINAL	_	38.50	53.63	-15.13	L1	GND
0.200	FINAL	51.0	_	63.63	-12.60	L1	GND
0.332	FINAL	_	28.09	49.40	-21.31	L1	GND
0.332	FINAL	38.4		59.40	-20.96	L1	GND
0.598	FINAL	_	26.54	46.00	-19.46	L1	GND
0.598	FINAL	36.5	_	56.00	-19.52	L1	GND
1.424	FINAL	31.3		56.00	-24.75	L1	GND
1.424	FINAL	_	19.74	46.00	-26.26	L1	GND
5.568	FINAL	20.6		60.00	-39.40	L1	GND
5.568	FINAL		11.26	50.00	-38.74	L1	GND
22.101	FINAL	_	17.08	50.00	-32.92	L1	GND
22.101	FINAL	23.5		60.00	-36.49	L1	GND

Table 7-70. AC Line Conducted Data with CDD 11n Ch.6 (L1, with Laptop)

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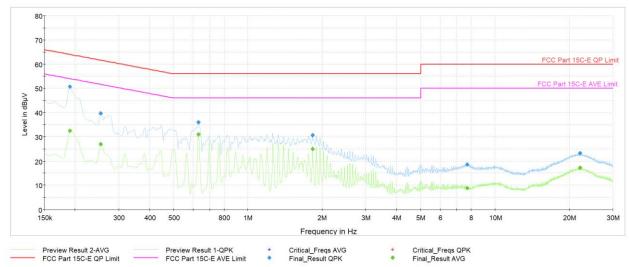
Plot 7-606. AC Line Conducted Plot with CDD 11n Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.191	FINAL	_	39.32	54.02	-14.69	N	GND
0.191	FINAL	53.0	_	64.02	-11.02	N	GND
0.254	FINAL	_	31.24	51.64	-20.40	Ν	GND
0.254	FINAL	43.4	_	61.64	-18.23	N	GND
0.569	FINAL	_	27.67	46.00	-18.33	Ν	GND
0.569	FINAL	36.2		56.00	-19.76	Ν	GND
1.329	FINAL	30.8		56.00	-25.21	Ν	GND
1.329	FINAL	_	26.15	46.00	-19.85	N	GND
8.012	FINAL	21.9	_	60.00	-38.10	N	GND
8.012	FINAL	_	11.82	50.00	-38.18	N	GND
27.449	FINAL	_	13.30	50.00	-36.70	N	GND
27.449	FINAL	19.6	_	60.00	-40.42	N	GND

Table 7-71. AC Line Conducted Data with CDD 11n Ch.6 (N, with Laptop)

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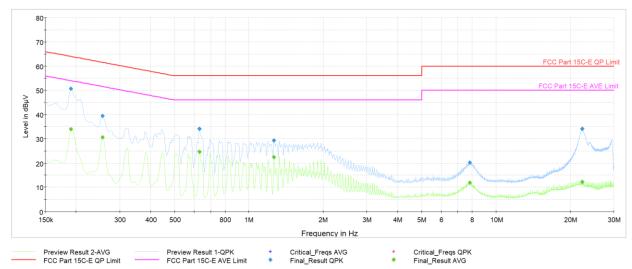
Plot 7-607. AC Line Conducted Plot with CDD 11ax - SU Ch.6 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.191	FINAL	_	32.53	54.02	-21.49	L1	GND
0.191	FINAL	50.8	_	64.02	-13.23	L1	GND
0.254	FINAL	_	26.98	51.64	-24.67	L1	GND
0.254	FINAL	39.6		61.64	-22.04	L1	GND
0.632	FINAL	_	31.01	46.00	-14.99	L1	GND
0.632	FINAL	35.9	_	56.00	-20.08	L1	GND
1.826	FINAL	30.7		56.00	-25.35	L1	GND
1.826	FINAL	_	24.92	46.00	-21.08	L1	GND
7.710	FINAL	18.5		60.00	-41.49	L1	GND
7.710	FINAL	_	8.88	50.00	-41.12	L1	GND
22.101	FINAL	_	17.25	50.00	-32.75	L1	GND
22.101	FINAL	23.2		60.00	-36.81	L1	GND

Table 7-72. AC Line Conducted Data with CDD 11ax - SU Ch.6 (L1, with Laptop)

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Plot 7-608. AC Line Conducted Plot with CDD 11ax - SU Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.191	FINAL	_	33.90	54.02	-20.12	N	GND
0.191	FINAL	50.8	_	64.02	-13.26	N	GND
0.256	FINAL	_	30.57	51.57	-21.00	N	GND
0.256	FINAL	39.4	_	61.57	-22.15	N	GND
0.632	FINAL	_	24.52	46.00	-21.48	N	GND
0.632	FINAL	34.1	_	56.00	-21.90	N	GND
1.264	FINAL	29.3	_	56.00	-26.75	N	GND
1.264	FINAL	_	22.41	46.00	-23.59	N	GND
7.818	FINAL	20.3	_	60.00	-39.71	N	GND
7.818	FINAL	_	11.91	50.00	-38.09	N	GND
22.304	FINAL	_	12.30	50.00	-37.70	N	GND
22.304	FINAL	34.1	_	60.00	-25.91	N	GND

Table 7-73. AC Line Conducted Data with CDD 11ax - SU Ch.6 (N, with Laptop)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID**: **BCGA2837**, **IC**: **579C-A2837** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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