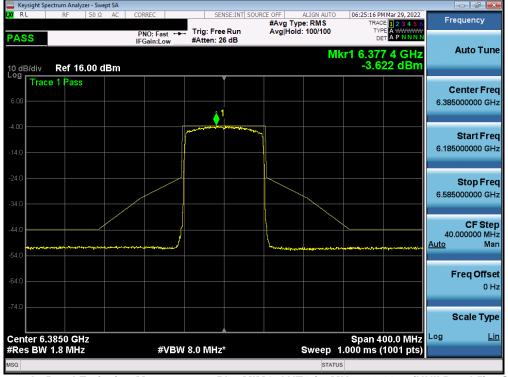


Plot 7-219. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 39)

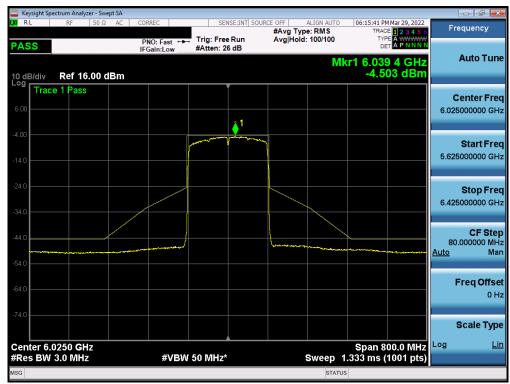


Plot 7-220. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

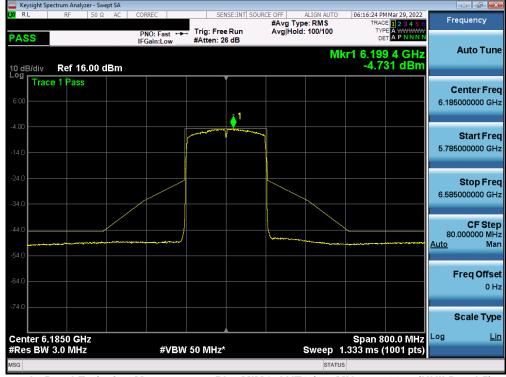
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Page 138 of 236              |
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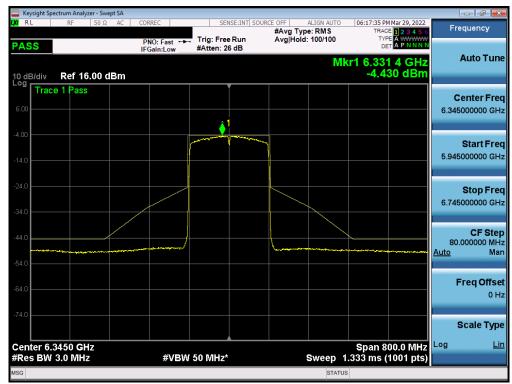
Plot 7-221. In-Band Emission Measurement Plot MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



Plot 7-222. In-Band Emission Measurement Plot MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 47)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogg 120 of 226              |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022              | Portable Handset | Page 139 of 236              |
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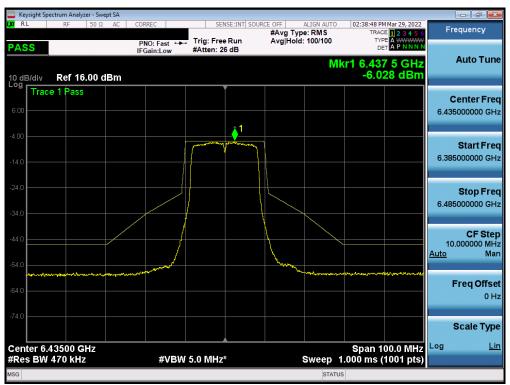


Plot 7-223. In-Band Emission Measurement Plot MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

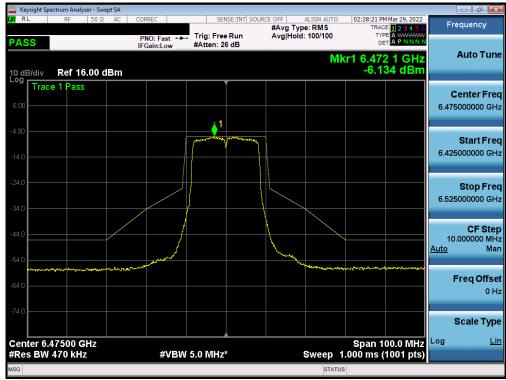
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Quality Manager |
|------------------------|---------------------------------------|------------------|---------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 140 of 226                 |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022                 | Portable Handset | Page 140 of 236                 |



## MIMO Antenna-1 In-Band Emission Measurements - (UNII Band 6)



Plot 7-224. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 97)



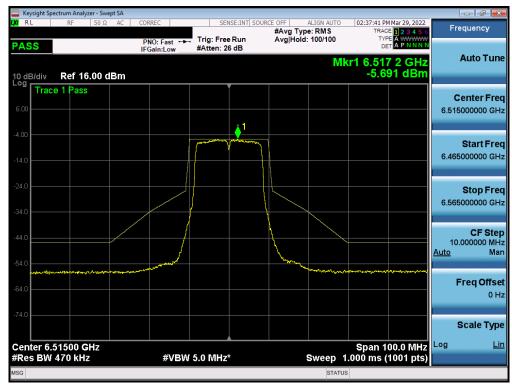
Plot 7-225. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 105)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogo 141 of 226              |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022              | Portable Handset | Page 141 of 236              |

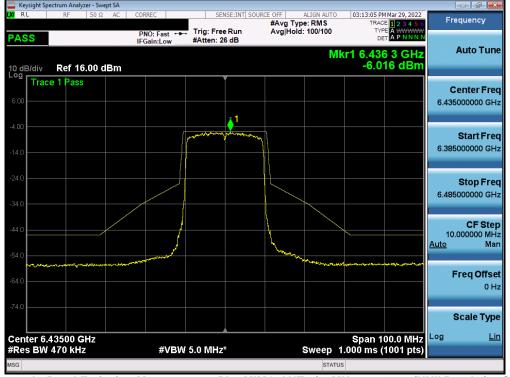
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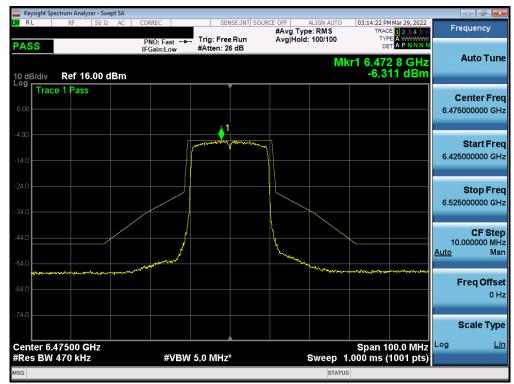
Plot 7-226. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 113)



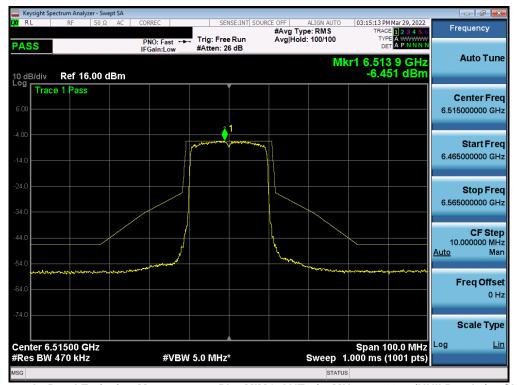
Plot 7-227. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dog 140 of 226               |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022              | Portable Handset | Page 142 of 236              |
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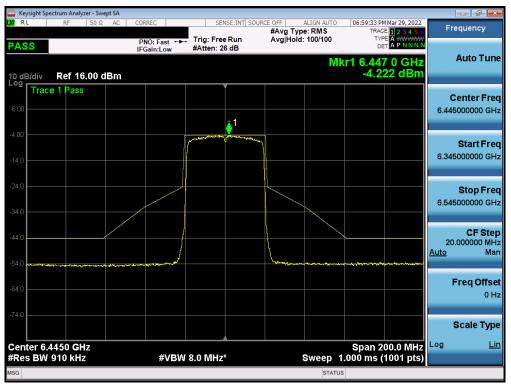
Plot 7-228. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 105)



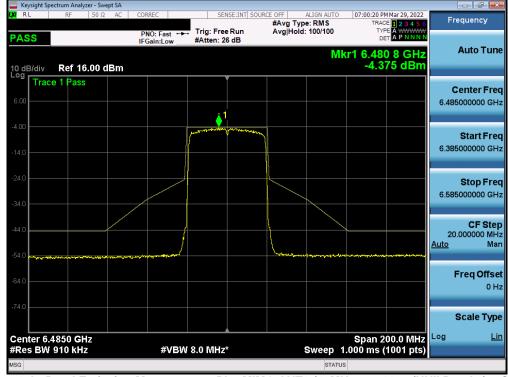
Plot 7-229. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Page 143 of 236              |
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Plot 7-230. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



Plot 7-231. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogo 144 of 226              |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022              | Portable Handset | Page 144 of 236              |

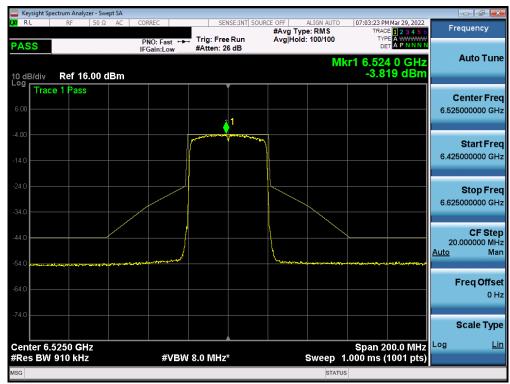
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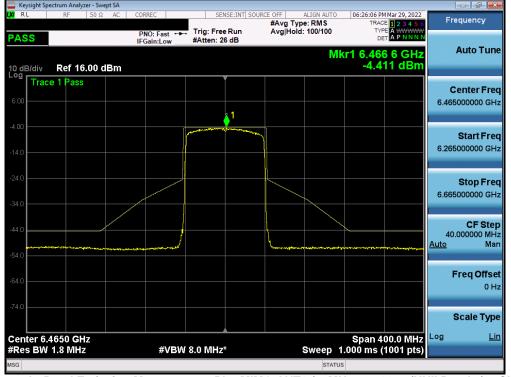
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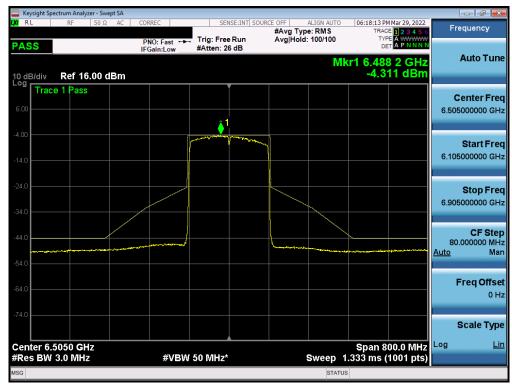
Plot 7-232. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-233. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dog 445 of 220               |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022              | Portable Handset | Page 145 of 236              |
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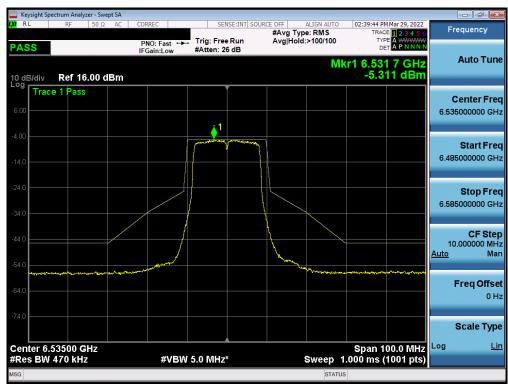


Plot 7-234. In-Band Emission Measurement Plot MIMO ANT1 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

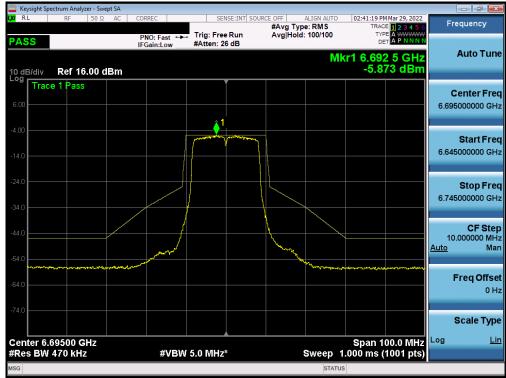
| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogo 146 of 226              |
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# MIMO Antenna-1 In-Band Emission Measurements - (UNII Band 7)



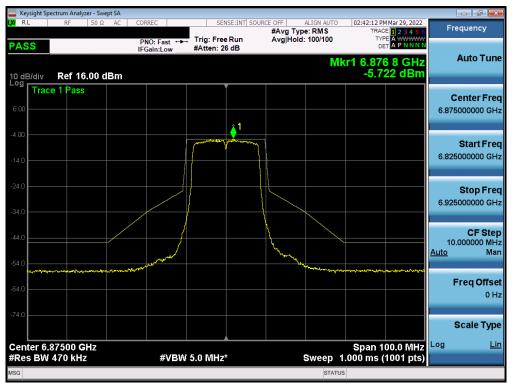
Plot 7-235. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 117)



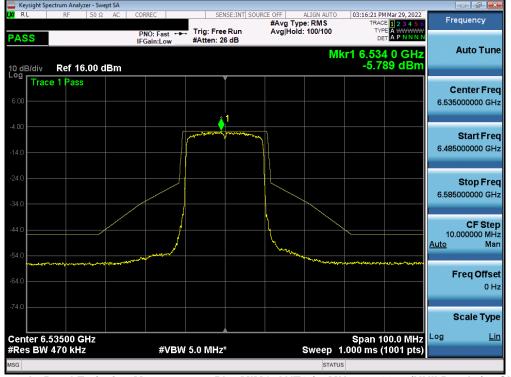
Plot 7-236. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 149)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 147 of 226              |
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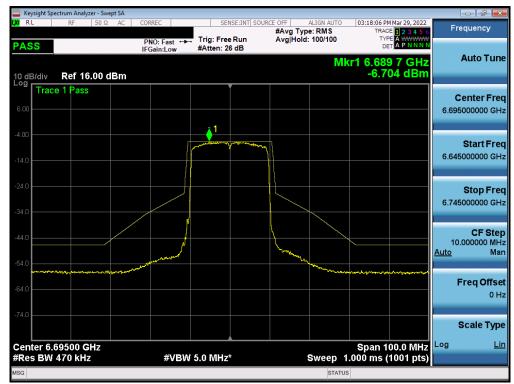
Plot 7-237. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 185)



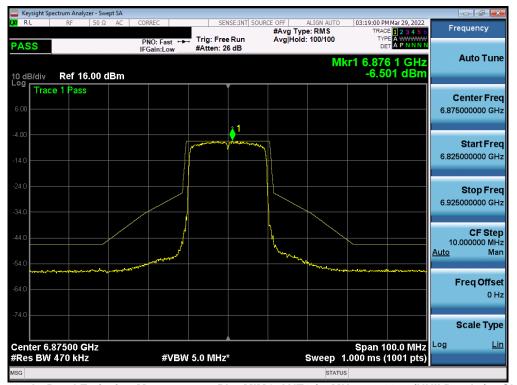
Plot 7-238. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 149 of 226              |
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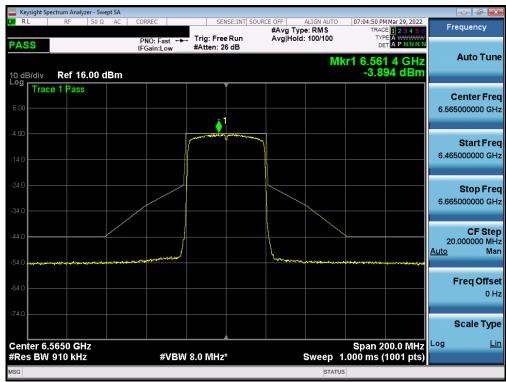
Plot 7-239. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 149)



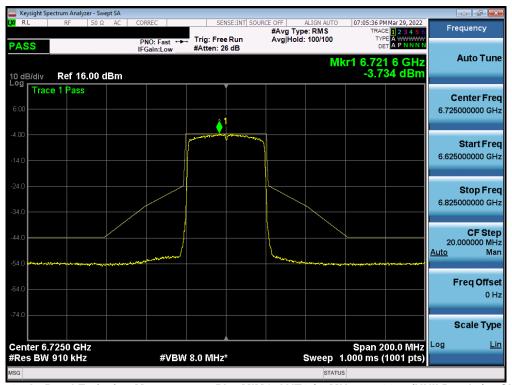
Plot 7-240. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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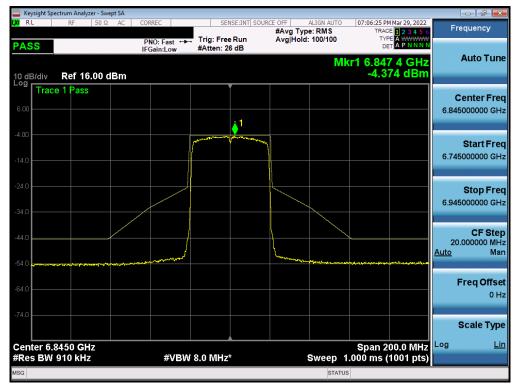
Plot 7-241. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



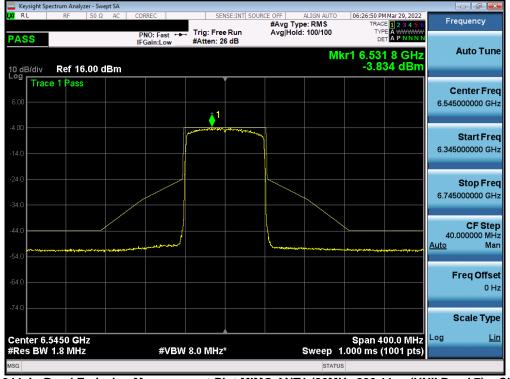
Plot 7-242. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 150 of 226              |
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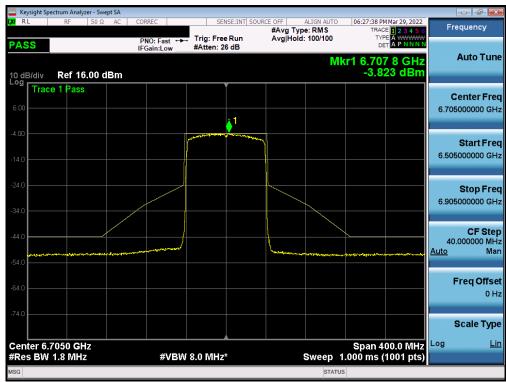
Plot 7-243. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



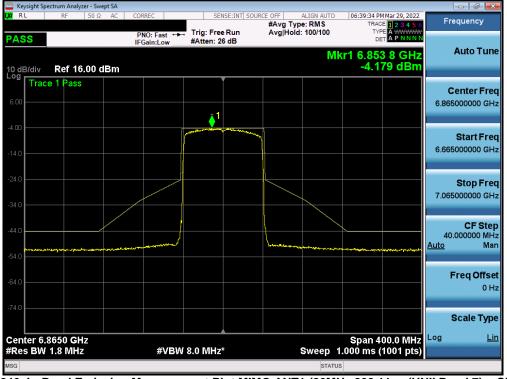
Plot 7-244. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
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| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dog 454 of 226               |
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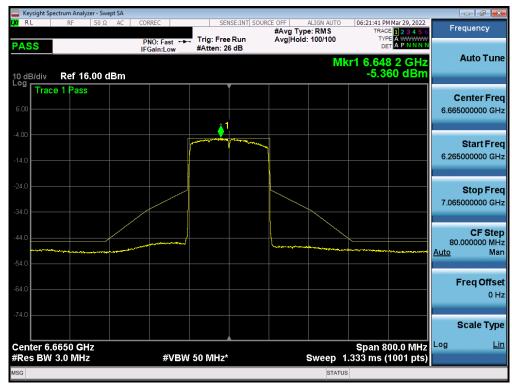
Plot 7-245. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



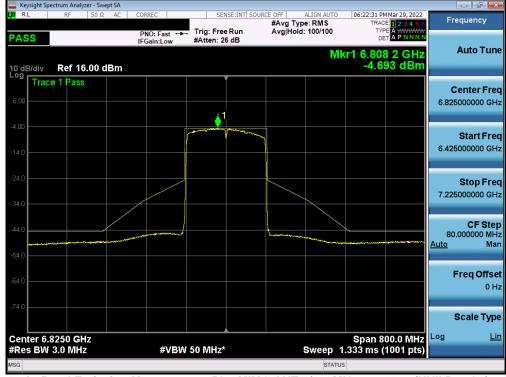
Plot 7-246. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
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Plot 7-247. In-Band Emission Measurement Plot MIMO ANT1 (160MHz 802.11ax (UNII Band 7) - Ch. 143)

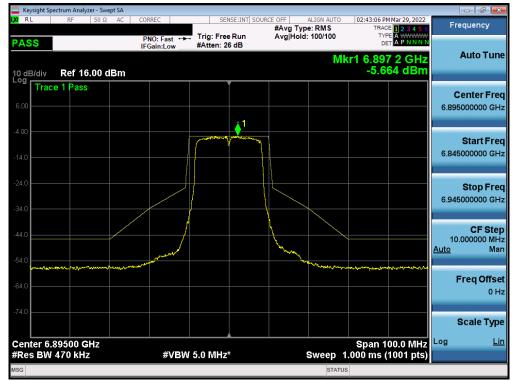


Plot 7-248. In-Band Emission Measurement Plot MIMO ANT1 (160MHz 802.11ax (UNII Band 7) - Ch. 175)

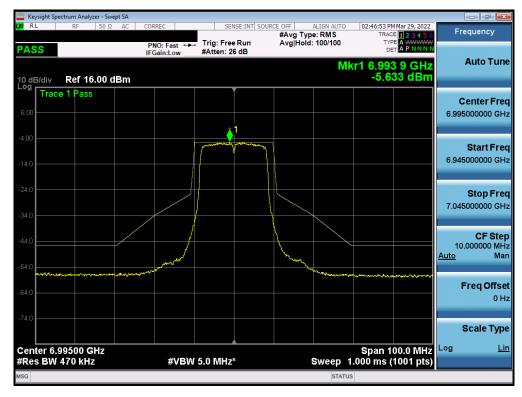
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
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## MIMO Antenna-1 In-Band Emission Measurements - (UNII Band 8)



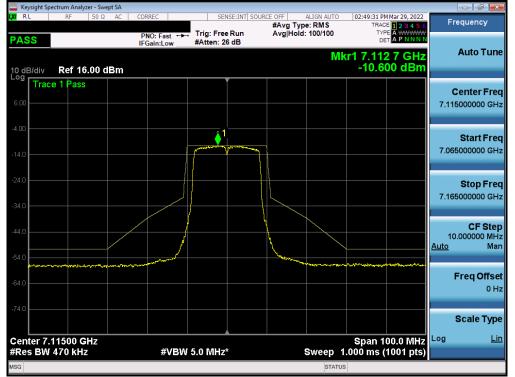
Plot 7-249. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 189)



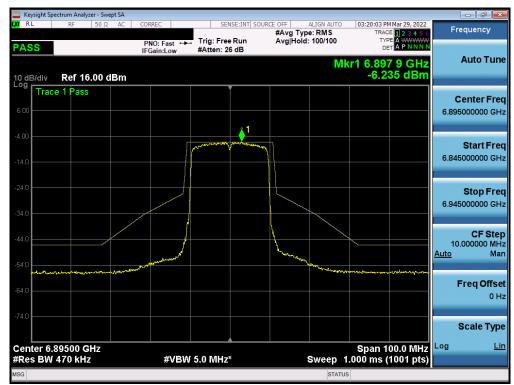
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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Plot 7-250. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 209)



Plot 7-251. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 233)

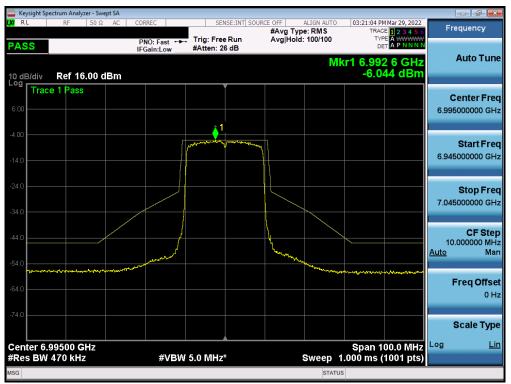


Plot 7-252. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

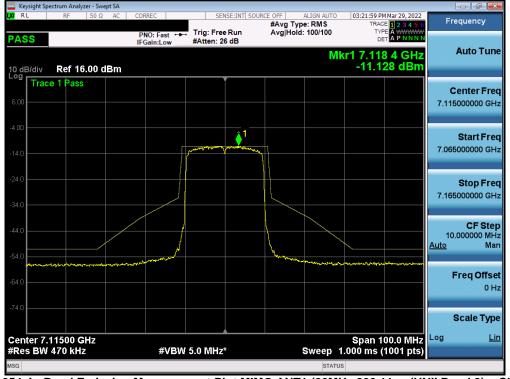
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Page 155 of 236              |
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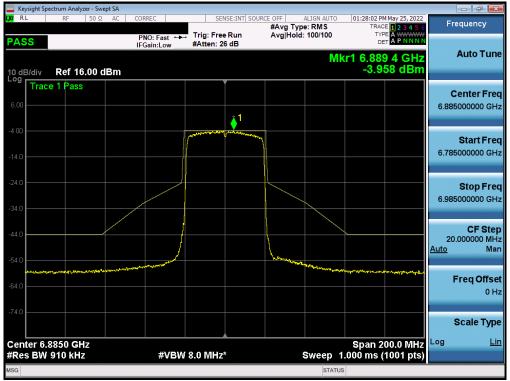
Plot 7-253. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



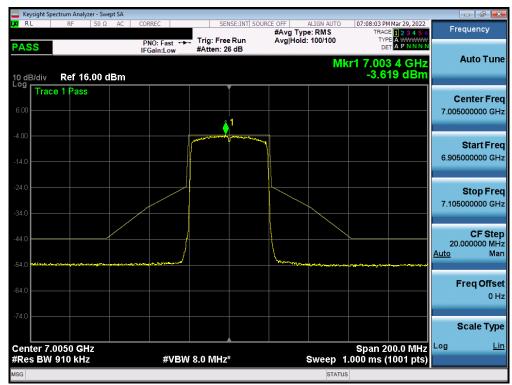
Plot 7-254. In-Band Emission Measurement Plot MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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Plot 7-255. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 187)



Plot 7-256. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

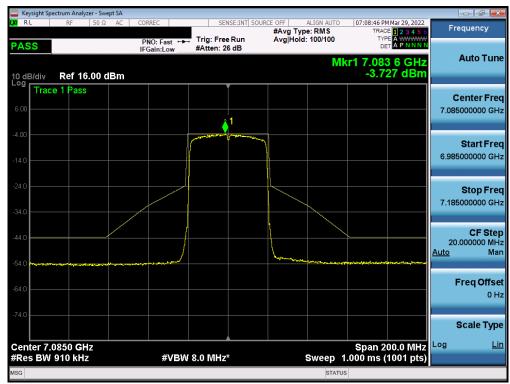
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 157 of 226              |
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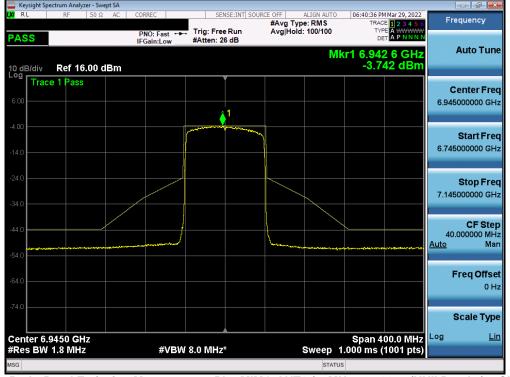
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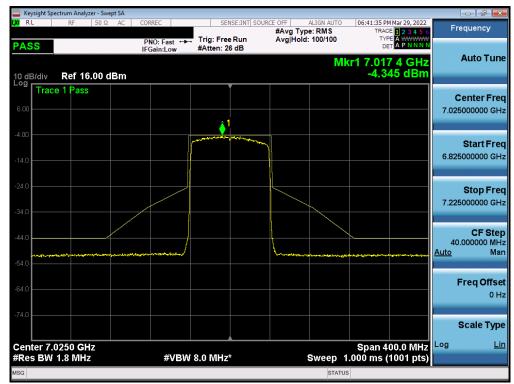
Plot 7-257. In-Band Emission Measurement Plot MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



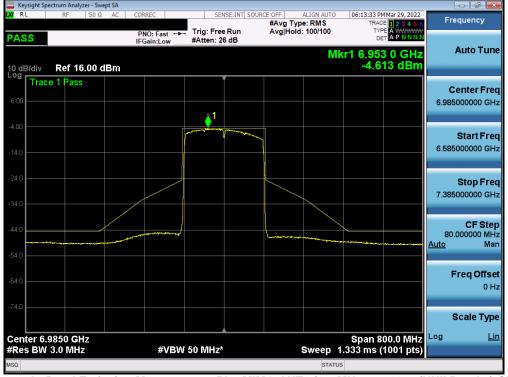
Plot 7-258. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
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Plot 7-259. In-Band Emission Measurement Plot MIMO ANT1 (80MHz 802.11ax (UNII Band 8) - Ch. 215)

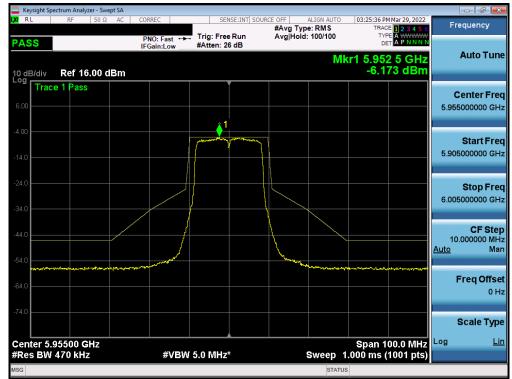


Plot 7-260. In-Band Emission Measurement Plot MIMO ANT1 (160MHz 802.11ax (UNII Band 8) Ch.207)

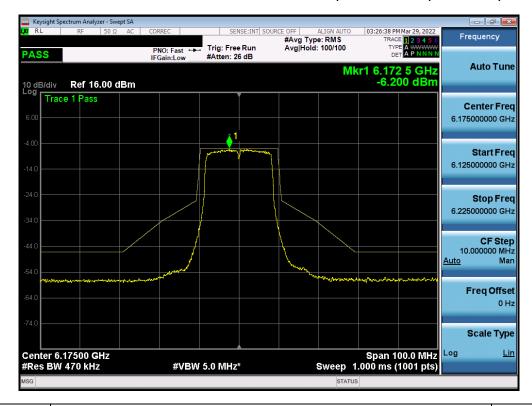
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
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## MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 5)



Plot 7-261. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 1)

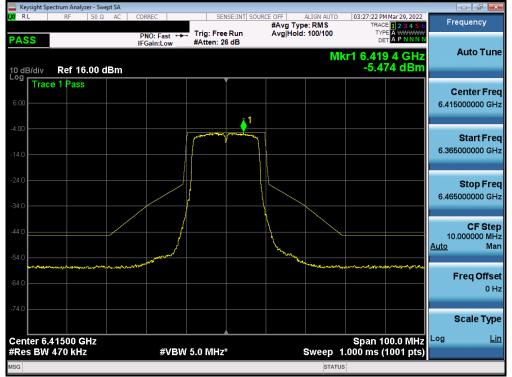


| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
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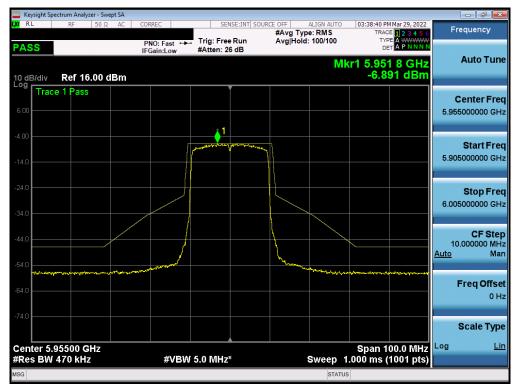
MENT V 9.0 02/01/2019



Plot 7-262. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 45)



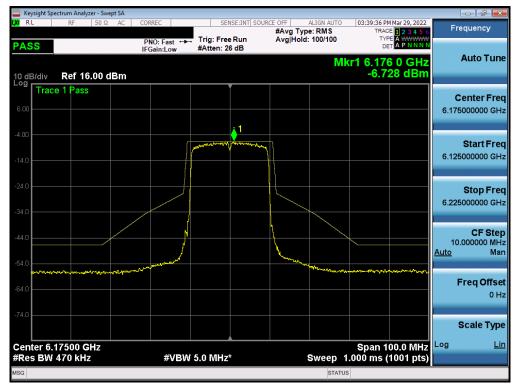
Plot 7-263. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 93)



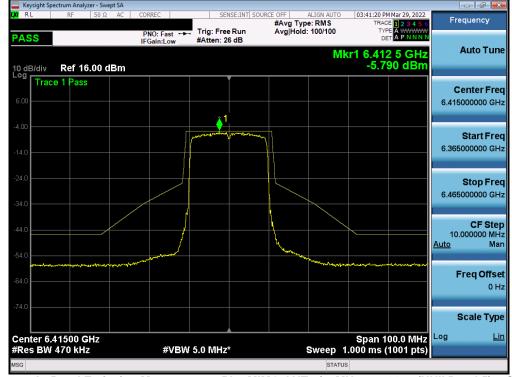
Plot 7-264. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 1)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 161 of 226              |
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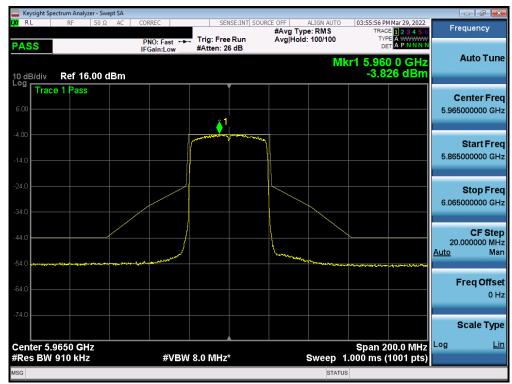
Plot 7-265. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 45)



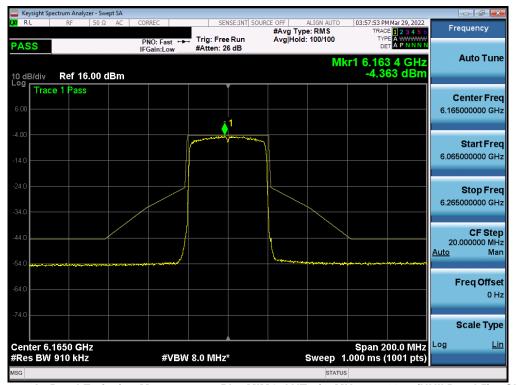
Plot 7-266. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 93)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | D 400 -4000                  |
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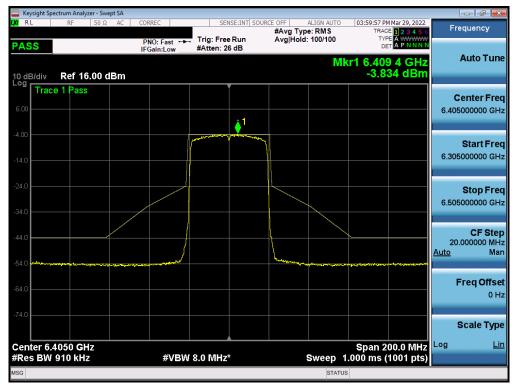
Plot 7-267. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 3)



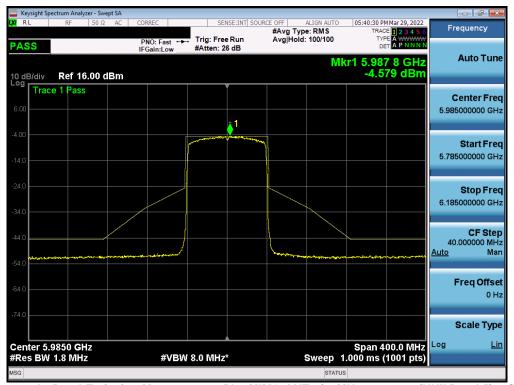
Plot 7-268. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 43)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 162 of 226              |
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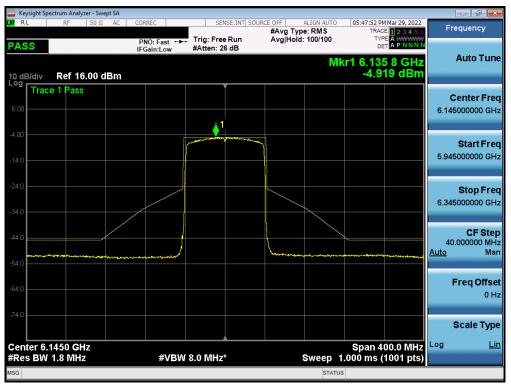
Plot 7-269. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 91)



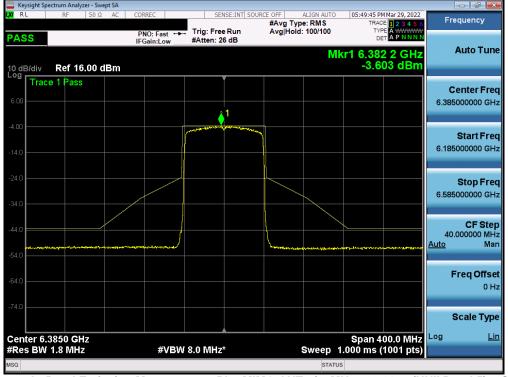
Plot 7-270. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 7)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 164 of 226              |
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Plot 7-271. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 39)



Plot 7-272. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

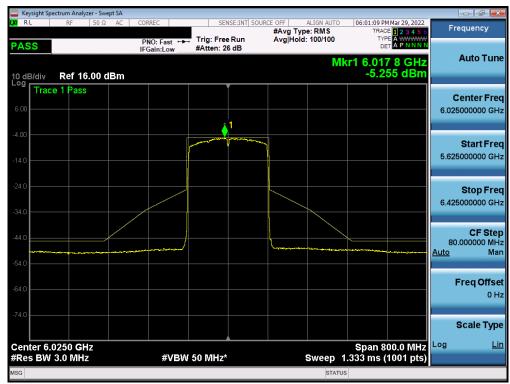
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Page 165 of 236              |
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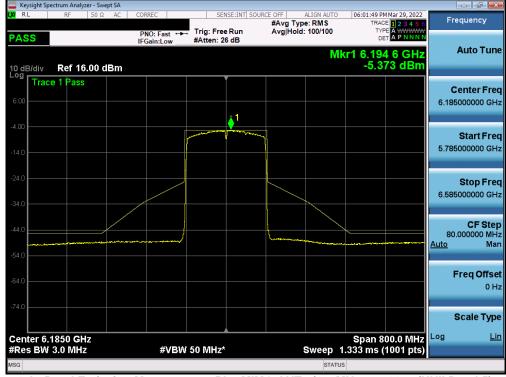
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Plot 7-273. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



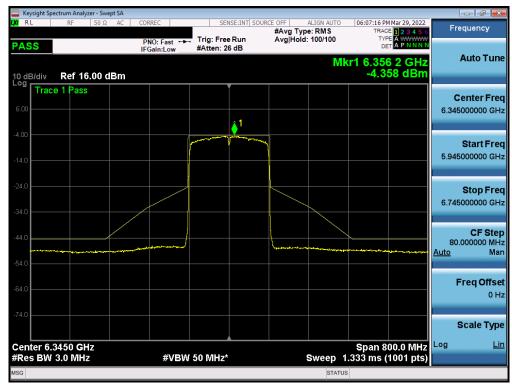
Plot 7-274. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 47)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 166 of 226              |
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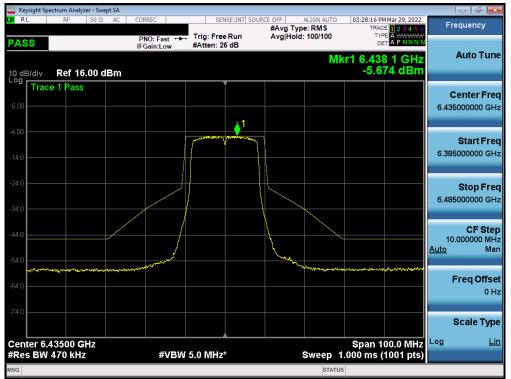


Plot 7-275. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

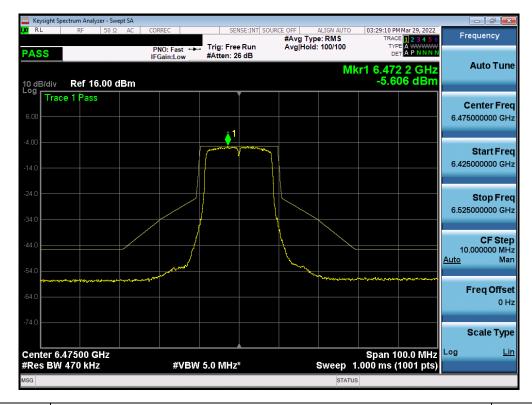
| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogo 167 of 226              |
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## MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 6)



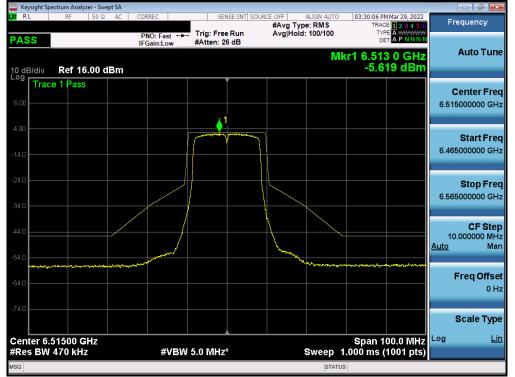
Plot 7-276. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 97)



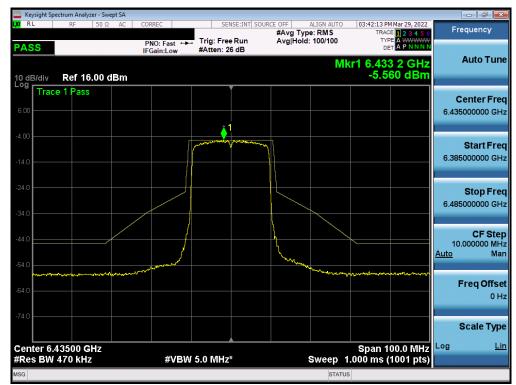
| MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager           |
|------------------------------------|------------------|----------------------------------------|
| Test Dates:                        | EUT Type:        | Dogo 169 of 226                        |
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|                                    |                  | (CERTIFICATION)  Test Dates: EUT Type: |



Plot 7-277. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 105)



Plot 7-278. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 113)



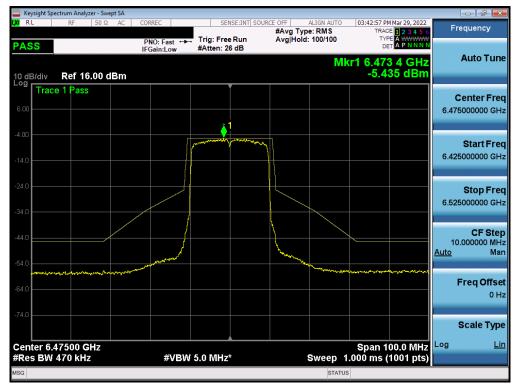
Plot 7-279. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 160 of 226              |
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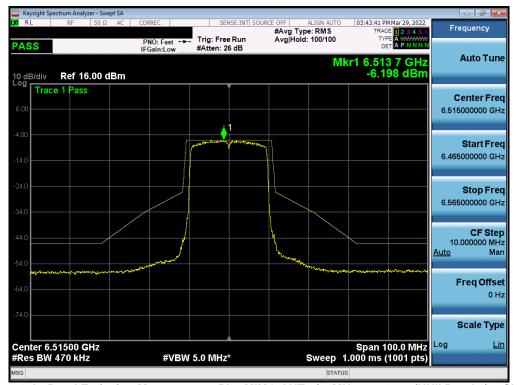
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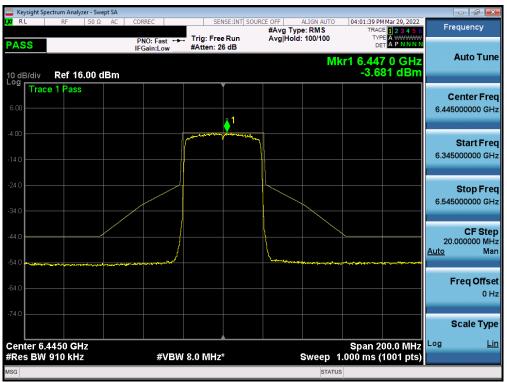
Plot 7-280. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 105)



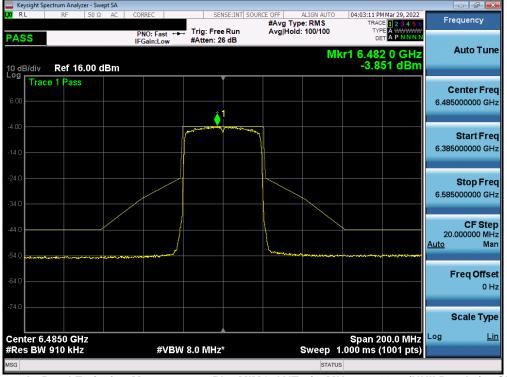
Plot 7-281. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 170 of 226              |
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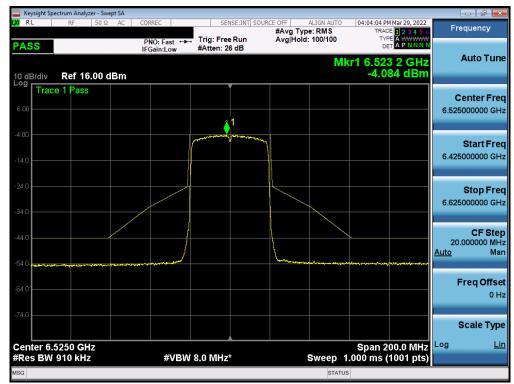
Plot 7-282. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



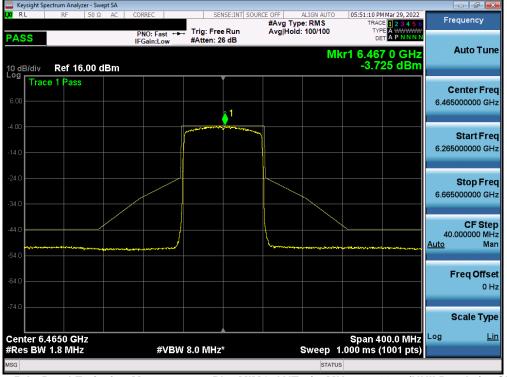
Plot 7-283. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 171 of 226              |
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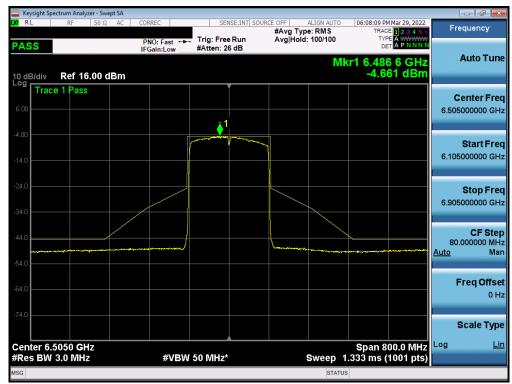
Plot 7-284. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-285. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 172 of 226              |
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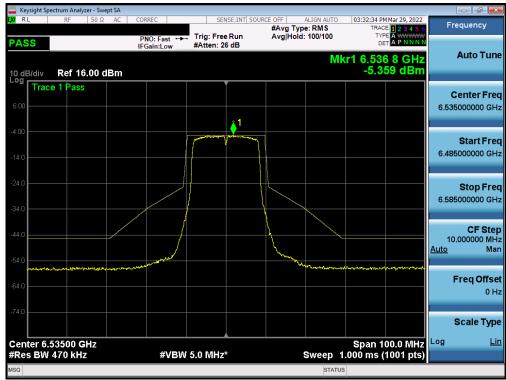


Plot 7-286. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

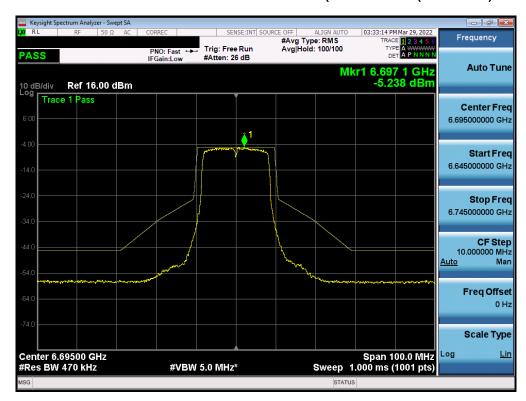
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Quality Manager |
|------------------------|---------------------------------------|------------------|---------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 172 of 226                 |
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### MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 7)



Plot 7-287. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 117)

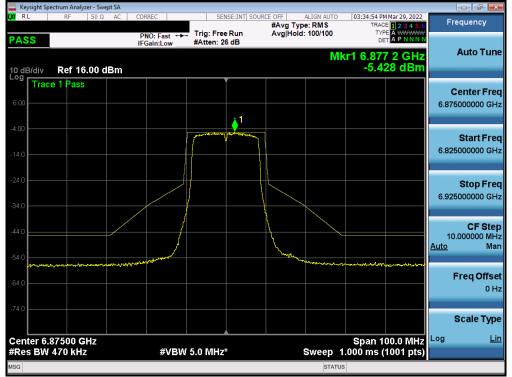


| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Page 174 of 236              |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022              | Portable Handset | Page 174 01 236              |

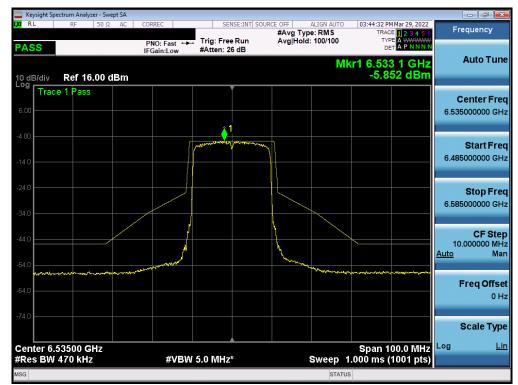
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Plot 7-288. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 149)



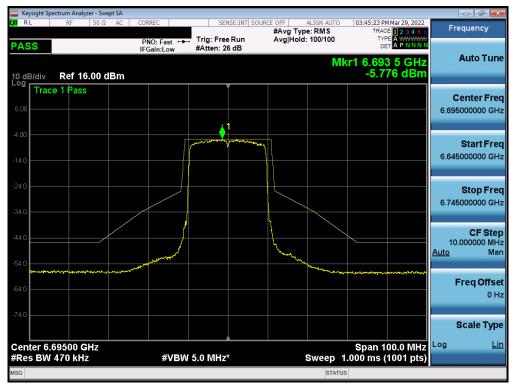
Plot 7-289. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 185)



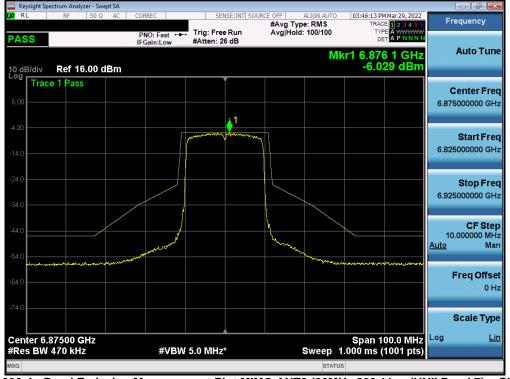
Plot 7-290. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogg 475 of 226              |
| 1M2201200003-22-R1.PY7 | 3/25/2022 - 5/19/2022              | Portable Handset | Page 175 of 236              |
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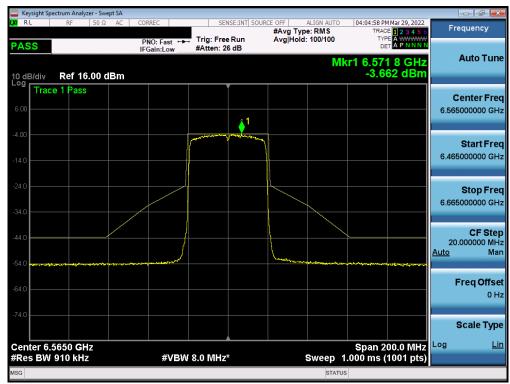
Plot 7-291. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 149)



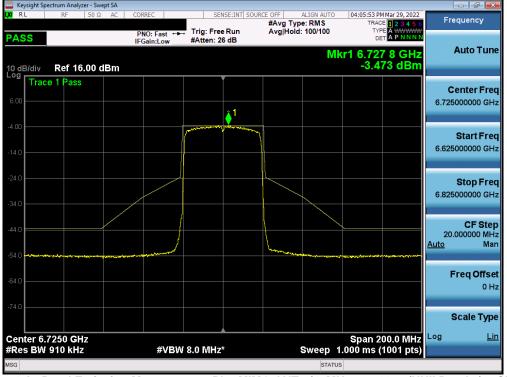
Plot 7-292. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogg 476 of 226              |
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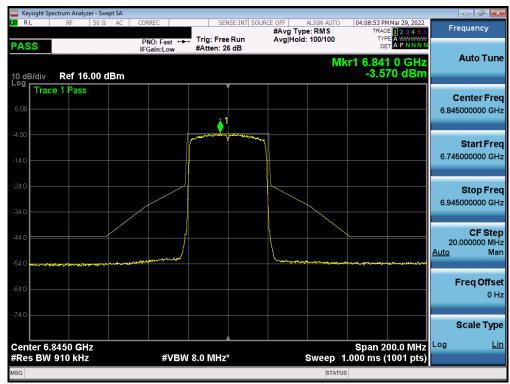
Plot 7-293. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



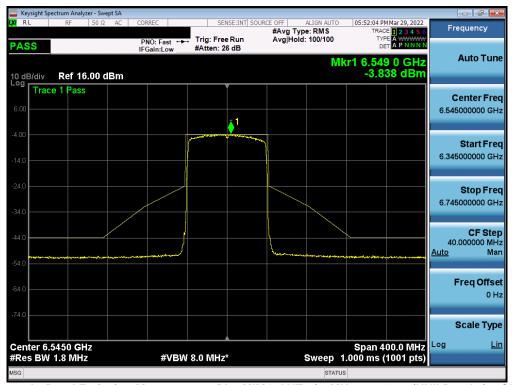
Plot 7-294. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogg 477 of 226              |
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Plot 7-295. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



Plot 7-296. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

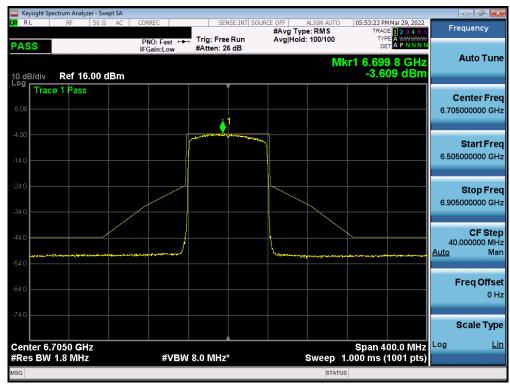
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
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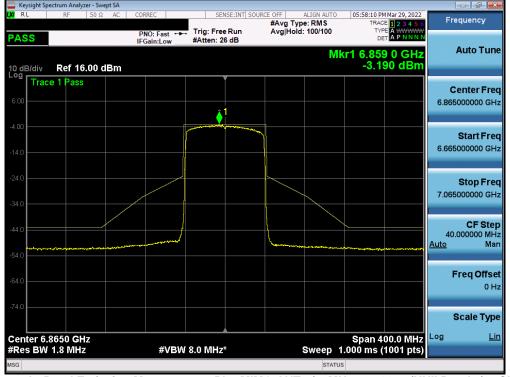
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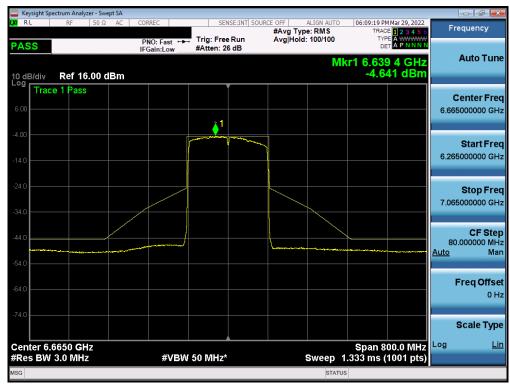
Plot 7-297. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



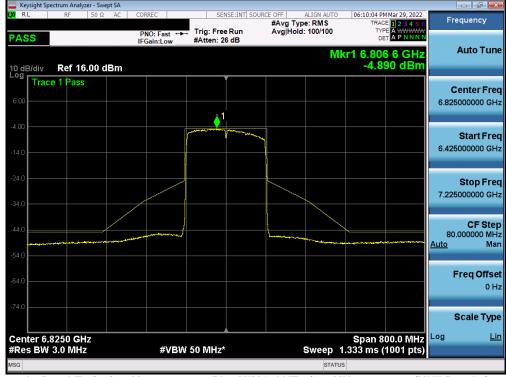
Plot 7-298. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                        | EUT Type:        | Dogg 170 of 226              |
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Plot 7-299. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 143)



Plot 7-300. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 175)

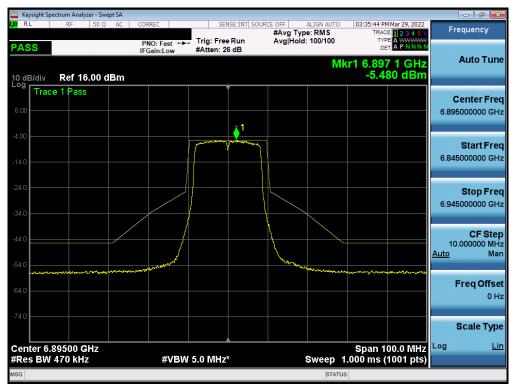
| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
|------------------------|---------------------------------------|------------------|------------------------------|
| Test Report S/N:       | Test Dates:                           | EUT Type:        | Dogo 190 of 226              |
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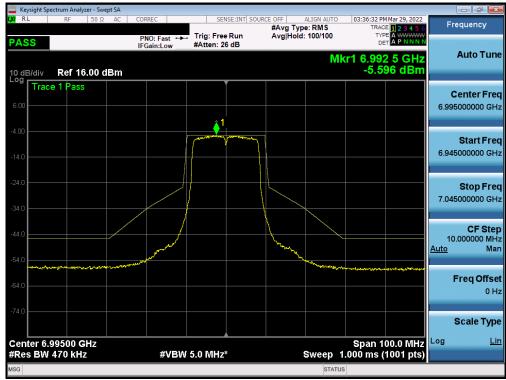
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## MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 8)



Plot 7-301. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 189)



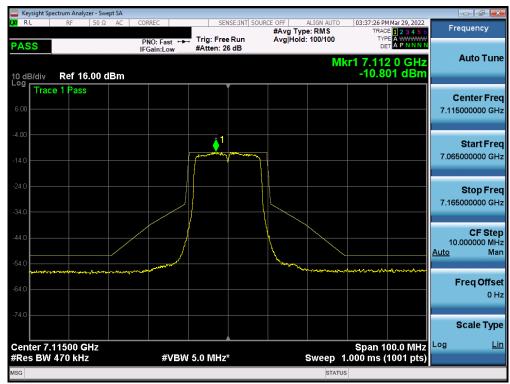
Plot 7-302. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 209)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by: Quality Manager |
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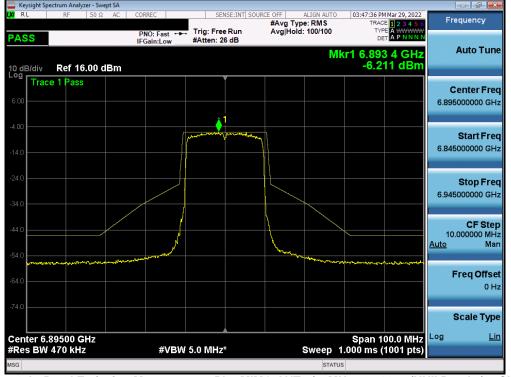
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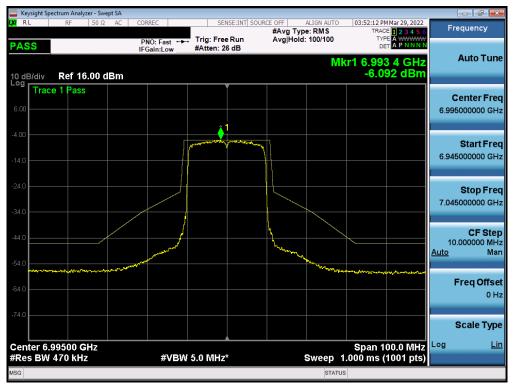
Plot 7-303. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 233)



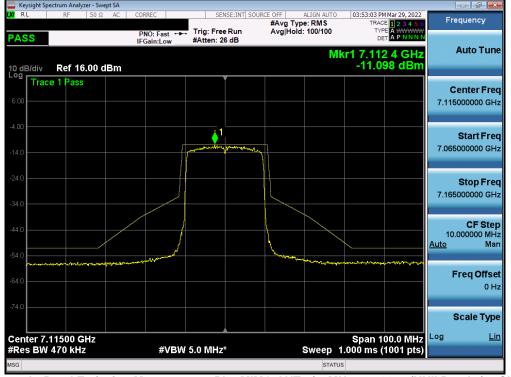
Plot 7-304. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

| FCC ID: PY7-57325M     | MEASUREMENT REPORT (CERTIFICATION) |                  | Approved by: Quality Manager |
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| Test Report S/N:       | Test Dates:                        | EUT Type:        | D 400 -4000                  |
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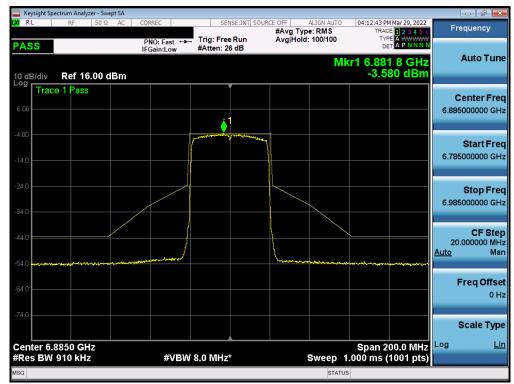
Plot 7-305. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



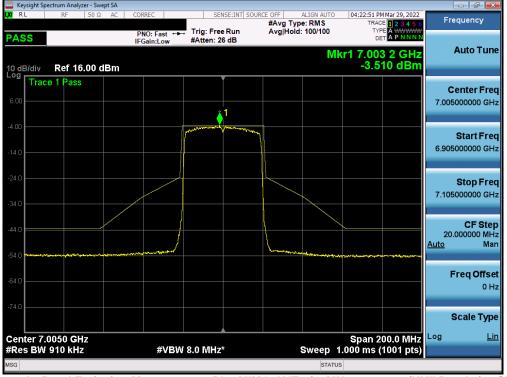
Plot 7-306. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

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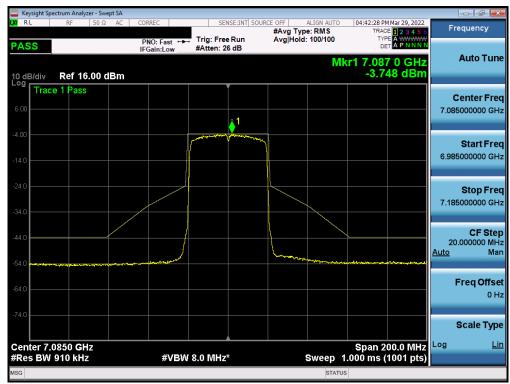
Plot 7-307. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 187)



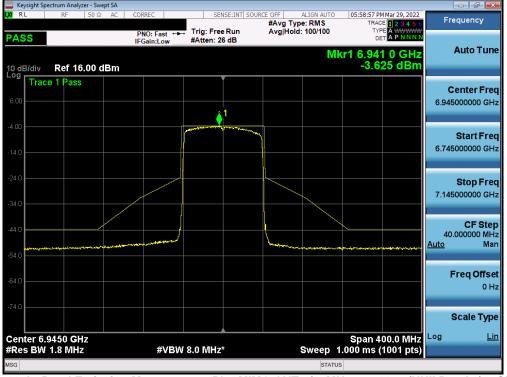
Plot 7-308. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

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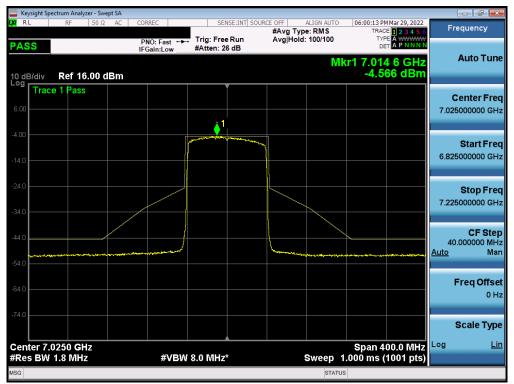
Plot 7-309. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



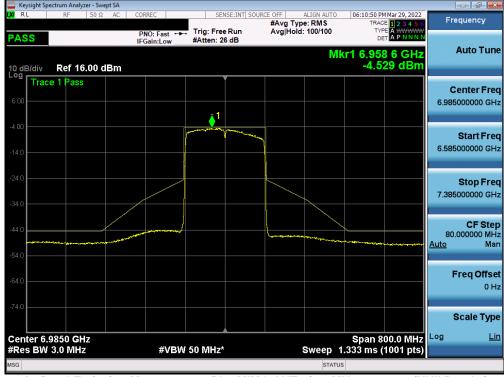
Plot 7-310. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

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Plot 7-311. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 215)



Plot 7-312. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 8) - Ch. 207)

| FCC ID: PY7-57325M     |                       | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Quality Manager |
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# 7.6 Contention Based Protocol – 802.11a/ax §15.407(d)(6)

#### **Test Overview and Limit**

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

#### **Test Procedure Used**

ANSI C63.10-2013 – Section 12.3.2.2 KDB 987594 D02 v01r01 KDB 987594 D04 v01

#### **Test Settings**

- 1. Configure the EUT to transmit with a constant duty cycle.
- 2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- 3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- **4.** Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
- **5.** Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2
- 7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- 8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- 9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- 10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

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| C                      |                                                              |                                    | 11                           |  |  |



#### **Test Setup**

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

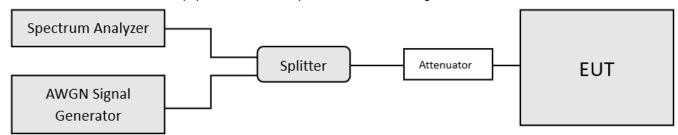


Figure 7-5. Contention-based protocol test setup, conducted method

#### **Test Notes**

- 1. Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-313). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-329), marker indicates the point at which the AWGN signal is introduced.
- 2. 15 trials were ran in order to assure that at least 90% of certainty was met.
- 3. Per Guidance from KDB 987594 D04 v01, contention based protocol was tested with receiver with the lowest antenna gain.

|                 | Min. Gain |
|-----------------|-----------|
|                 | [dBi]     |
| 5925 – 6425 MHz | -10.5     |
| 6425 – 6525 MHz | -12.0     |
| 6525 – 6875 MHz | -12.4     |
| 6875 – 7125 MHz | -11 7     |

Table 7-8. Antenna Lowest Gain

Detection Level = Injected AWGN Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)

**Equation 7-1. Detection Level Calculation** 

| FCC ID: PY7-57325M     |                       | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Quality Manager |  |
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| Band   | Channel | Channel Freq<br>[MHz] | Channel BW<br>[MHz] | Incumbent<br>Freq [MHz] | Injected<br>(AWGN)<br>[dBm] | Antenna<br>Gain<br>[dBi] | Path Loss<br>(dB) | Adjusted<br>Power Level<br>[dBm] | Detection<br>Limit [dBm] | Margin [dB] |
|--------|---------|-----------------------|---------------------|-------------------------|-----------------------------|--------------------------|-------------------|----------------------------------|--------------------------|-------------|
|        | 53      | 6215                  | 20                  | 6215                    | -74.12                      | -10.50                   | 0.49              | -63.13                           | -62.0                    | -1.13       |
| UNII   |         |                       |                     | 6110                    | -74.60                      | -10.50                   | 0.46              | -63.64                           | -62.0                    | -1.64       |
| Band 5 | 47      | 6185                  | 160                 | 6185                    | -74.18                      | -10.50                   | 0.48              | -63.20                           | -62.0                    | -1.20       |
|        |         |                       |                     | 6260                    | -74.64                      | -10.50                   | 0.50              | -63.64                           | -62.0                    | -1.64       |
|        | 101     | 6455                  | 20                  | 6455                    | -76.33                      | -12.00                   | 0.54              | -63.79                           | -62.0                    | -1.79       |
| UNII   |         |                       |                     | 6430                    | -76.20                      | -12.00                   | 0.53              | -63.67                           | -62.0                    | -1.67       |
| Band 6 | 111     | 6505                  | 160                 | 6505                    | -75.60                      | -12.00                   | 0.55              | -63.05                           | -62.0                    | -1.05       |
|        |         |                       |                     | 6580                    | -75.58                      | -12.00                   | 0.57              | -63.01                           | -62.0                    | -1.01       |
|        | 149     | 6695                  | 20                  | 6695                    | -76.07                      | -12.40                   | 0.59              | -63.08                           | -62.0                    | -1.08       |
| UNII   |         |                       |                     | 6750                    | -76.03                      | -12.40                   | 0.60              | -63.03                           | -62.0                    | -1.03       |
| Band 7 | 175     | 6825                  | 160                 | 6825                    | -76.25                      | -12.40                   | 0.62              | -63.23                           | -62.0                    | -1.23       |
|        |         |                       |                     | 6900                    | -76.22                      | -12.40                   | 0.63              | -63.19                           | -62.0                    | -1.19       |
|        | 197     | 6935                  | 20                  | 6935                    | -75.79                      | -11.70                   | 0.64              | -63.45                           | -62.0                    | -1.45       |
| UNII   |         |                       |                     | 6910                    | -75.80                      | -11.70                   | 0.64              | -63.46                           | -62.0                    | -1.46       |
| Band 8 | 207     | 6985                  | 160                 | 6985                    | -75.38                      | -11.70                   | 0.65              | -63.03                           | -62.0                    | -1.03       |
|        |         |                       |                     | 7060                    | -75.39                      | -11.70                   | 0.66              | -63.03                           | -62.0                    | -1.03       |

Table 7-9. Contention Based Protocol – Incumbent Detection Results

|        |         |              |            |            | EU                        | T Transmission Sta | tus    |        |  |
|--------|---------|--------------|------------|------------|---------------------------|--------------------|--------|--------|--|
| Band   | Channel | Channel Freq | Channel BW | Incumbent  | Adjusted AWGN Power (dBm) |                    |        |        |  |
| Bana   | Chamici | [MHz]        | [MHz]      | Freq [MHz] | Normal                    | Minimal            | Ceased |        |  |
|        | 53      | 6215         | 20         | 6215       | -79.62                    | -65.44             | -63.13 |        |  |
| UNII   |         |              |            | 6110       | -79.69                    | -65.98             | -63.64 |        |  |
| Band 5 | 47      | 6185         | 160        | 6185       | -79.36                    | -65.47             | -63.20 |        |  |
|        |         |              |            | 6260       | -78.99                    | -65.83             | -63.64 |        |  |
|        | 101     | 6455         | 20         | 6455       | -78.88                    | -65.14             | -63.79 |        |  |
| UNII   |         |              |            | 6430       | -78.83                    | -65.21             | -63.67 |        |  |
| Band 6 | 111     | 6505         | 6505       | 160        | 6505                      | -78.79             | -65.19 | -63.05 |  |
|        |         |              |            | 6580       | -78.92                    | -65.39             | -63.01 |        |  |
|        | 149     | 6695         | 20         | 6695       | -79.63                    | -66.01             | -63.08 |        |  |
| UNII   |         |              |            | 6750       | -79.48                    | -65.89             | -63.03 |        |  |
| Band 7 | 175     | 6825         | 160        | 6825       | -79.16                    | -65.57             | -63.23 |        |  |
|        |         |              |            | 6900       | -79.02                    | -65.44             | -63.19 |        |  |
|        | 197     | 6935         | 20         | 6935       | -78.96                    | -65.36             | -63.45 |        |  |
| UNII   |         |              |            | 6910       | -79.28                    | -65.69             | -63.46 |        |  |
| Band 8 | 207     | 6985         | 160        | 6985       | -79.60                    | -66.01             | -63.03 |        |  |
|        |         |              |            | 7060       | -79.48                    | -65.89             | -63.03 |        |  |

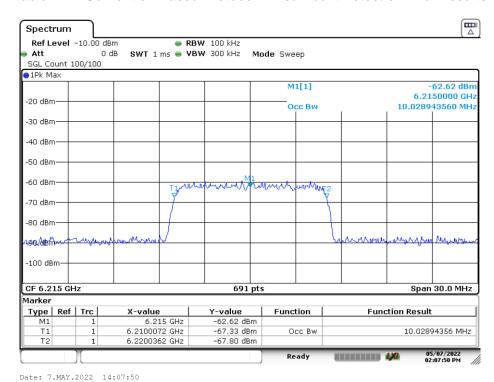
Table 7-10. Contention Based Protocol – Detection Results – All Tx Cases

| FCC ID: PY7-57325M     |                       | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Quality Manager |
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| Band   | Channel | Channel Freq<br>[MHz] | Channel BW<br>[MHz] | Incumbent<br>Freq [MHz] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Detection<br>Rate (%) |
|--------|---------|-----------------------|---------------------|-------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|-----------------------|
|        | 53      | 6215                  | 20                  | 6215                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| UNII   |         |                       |                     | 6110                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| Band 5 | 47      | 6185                  | 160                 | 6185                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
|        |         |                       |                     | 6260                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
|        | 101     | 6455                  | 20                  | 6455                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| UNII   |         |                       |                     | 6430                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| Band 6 | 111     | 6505                  | 160                 | 6505                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
|        |         |                       |                     | 6580                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
|        | 149     | 6695                  | 20                  | 6695                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| UNII   |         |                       |                     | 6750                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| Band 7 | 175     | 6825                  | 160                 | 6825                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
|        |         |                       |                     | 6900                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
|        | 197     | 6935                  | 20                  | 6935                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| UNII   |         |                       |                     | 6910                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
| Band 8 | 207     | 6985                  | 160                 | 6985                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |
|        |         |                       |                     | 7060                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 100                   |

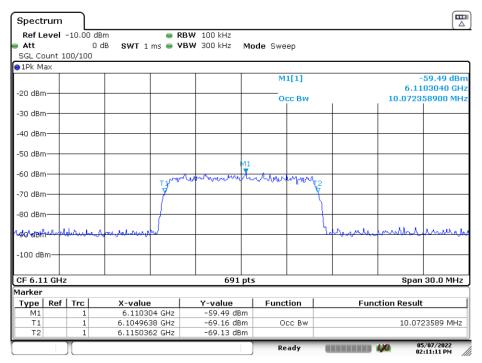
Table 7-11. Contention Based Protocol – Incumbent Detection Trial Results



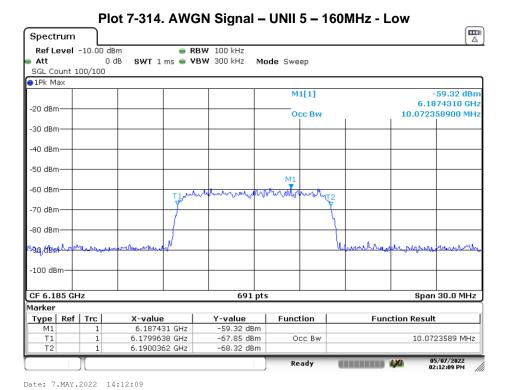
Plot 7-313. AWGN Signal - UNII 5 - 20MHz

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Date: 7.MAY.2022 14:11:11



Plot 7-315. AWGN Signal - UNII 5 - 160MHz - Mid

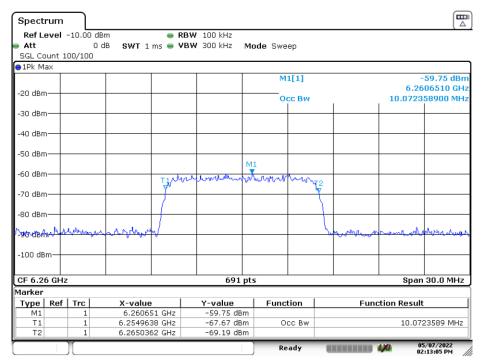
| FCC ID: PY7-57325M     |                       | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Quality Manager |  |
|------------------------|-----------------------|---------------------------------------|------------------------------|--|
| Test Report S/N:       | Test Dates:           | EUT Type:                             | Dogo 101 of 226              |  |
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Plot 7-317. AWGN Signal - UNII 6 - 20MHz

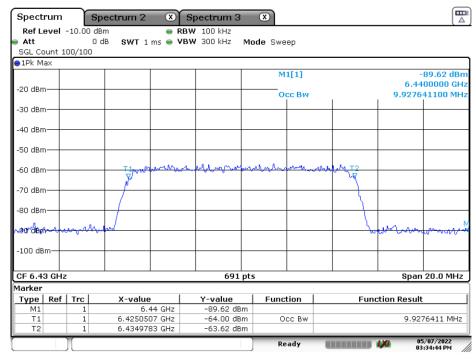
| FCC ID: PY7-57325M     |                       | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Quality Manager |  |
|------------------------|-----------------------|---------------------------------------|------------------------------|--|
| Test Report S/N:       | Test Dates:           | EUT Type:                             | Dogo 102 of 226              |  |
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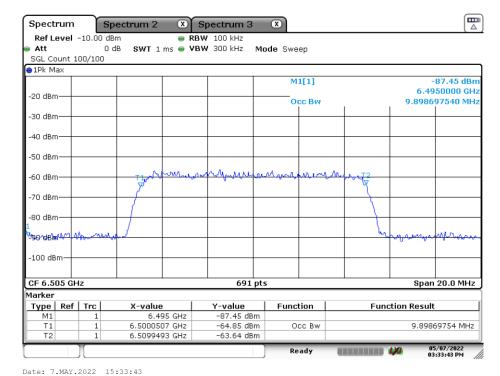
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Plot 7-318. AWGN Signal - UNII 6 - 160MHz - Low



Plot 7-319. AWGN Signal – UNII 6 – 160MHz - Mid

| FCC ID: PY7-57325M     |                       | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |  |
|------------------------|-----------------------|---------------------------------------|---------------------------------|--|
| Test Report S/N:       | Test Dates:           | EUT Type:                             | Dogo 102 of 226                 |  |
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