## element



Plot 8-191. Peak To Average Power Ratio Plot
(LTE B5_3C_5M+10M+10M_QPSK - Mid Channel_2T, Port 0)


Plot 8-193. Peak To Average Power Ratio Plot (DSS B(n)5_1C_10M(2:8 Ratio) QPSK - High Channel_2T, Port 0)

Plot 8-195. Peak To Average Power Ratio Plot
(DSS B(n)5_2C_10M+10M_QPSK - High Channel_2T, Port 1)


Plot 8-192. Peak To Average Power Ratio Plot (LTE B5_3C_5M+10M+10M_16QAM - Mid Channel_2T, Port 1)


Plot 8-194. Peak To Average Power Ratio Plot (DSS B(n)5_1C_10M(9:1 Ratio)_64QAM - Low Channel_2T, Port 0)


Plot 8-196. Peak To Average Power Ratio Plot (DSS B(n)5_2C_10M+10M_16QAM - High Channel_2T, Port 0)

| FCC ID: A3LRF4461D-13A | - element | MEASUREMENT REPORT (CERTIFICATION) | Shmsun | Approved by: Technical Manager |
| :---: | :---: | :---: | :---: | :---: |
| Test Report S/N: 8K23073101-00.A3L | Test Dates: 04/12/2023-08/03/2023 | EUT Type: RRU(RF4461d) |  | Page 141 of 404 |

## element



Plot 8-197. Peak To Average Power Ratio Plot
(NR n5_1C_5M_QPSK - Low Channel_2T, Port 1)


Plot 8-199. Peak To Average Power Ratio Plot (NR n5_1C_10M_QPSK - High Channel_2T, Port 0)


Plot 8-201. Peak To Average Power Ratio Plot (NR n5_1C_15M_QPSK - High Channel_2T, Port 0)


Plot 8-198. Peak To Average Power Ratio Plot (NR n5_1C_5M_16QAM - Low Channel_2T, Port 1)


Plot 8-200. Peak To Average Power Ratio Plot (NR n5_1C_10M_16QAM - High Channel_2T, Port 0)


Plot 8-202. Peak To Average Power Ratio Plot (NR n5_1C_15M_16QAM - High Channel_2T, Port 0)

| FCC ID: A3LRF4461D-13A | - element | MEASUREMENT REPORT (CERTIFICATION) | shmsune | Approved by: Technical Manager |
| :---: | :---: | :---: | :---: | :---: |
| Test Report S/N: 8K23073101-00.A3L | Test Dates: <br> 04/12/2023-08/03/2023 | EUT Type: RRU(RF4461d) |  | Page 142 of 404 |

$\qquad$ 04/12/2023-08/03/2023 RRU(RF4461d)
element


Plot 8-203. Peak To Average Power Ratio Plot
(NR n5_2C_5M+5M_QPSK - High Channel_2T, Port 0)


Plot 8-205. Peak To Average Power Ratio Plot (NR n5_2C_10M+15M_QPSK - Mid Channel_2T, Port 0)


Plot 8-207. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_QPSK - High Channel_2T, Port 0)


Plot 8-204. Peak To Average Power Ratio Plot (NR n5_2C_5M+5M_16QAM - High Channel_2T, Port 0)


Plot 8-206. Peak To Average Power Ratio Plot (NR n5_2C_10M+15M_16QAM - Mid Channel_2T, Port 0)


Plot 8-208. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_16QAM - High Channel_2T, Port $\overline{0}$ )

| FCC ID: A3LRF4461D-13A | MEASUREMENT REPORT <br> (CERTIFICATION) | Approved by: <br> Technical Manager |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Test Report S/N: | Test Dates: <br> $8 K 23073101-00 . A 3 L ~$ | $04 / 12 / 2023-08 / 03 / 2023$ | EUT Type: <br> RRU(RF4461d) | Page 143 of 404 |

$\qquad$ 04/12/2023-08/03/2023 RRU(RF4461d)
element


Plot 8-209. Peak To Average Power Ratio Plot
(MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_QPSK - Mid
Channel_2T, Port 0)


Plot 8-211. Peak To Average Power Ratio Plot
(MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_QPSK - High Channel_2T, Port 0)


Plot 8-213. Peak To Average Power Ratio Plot (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_QPSK - Mid Channel_2T, Port 1)


Plot 8-210. Peak To Average Power Ratio Plot (MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_16QAM - Mid Channel_2T, Port 0)


Plot 8-212. Peak To Average Power Ratio Plot
(MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_16QAM - High Channel_2T, Port 0)


Plot 8-214. Peak To Average Power Ratio Plot (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_16QAM - Mid Channel_2T, Port 1)

| FCC ID: A3LRF4461D-13A | MEASUREMENT REPORT <br> (CERTIFICATION) | Approved by: <br> Technical Manager |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Test Report S/N: | Test Dates: <br> 8K23073101-00.A3L | $04 / 12 / 2023-08 / 03 / 2023$ | EUT Type: <br> RRU(RF4461d) | Page 144 of 404 |

## element



Plot 8-215. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_QPSK - High Channel_2T, Port 0)


Plot 8-217. Peak To Average Power Ratio Plot (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_QPSK - Mid Channel_2T, Port 1 )


Plot 8-219. Peak To Average Power Ratio Plot
(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_QPSK High Channel_2 $\mathrm{T}, \overline{\mathrm{P}}$ ort 0 )


Plot 8-216. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_16QAM - High Channel_2T, Port 1)


Plot 8-218. Peak To Average Power Ratio Plot (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_16QAM - Mid Channel_2T, Port 0)


Plot 8-220. Peak To Average Power Ratio Plot (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_16QAM - High Channel_2T, Port 0)

| FCC ID: A3LRF4461D-13A | MEASUREMENT REPORT <br> (CERTIFICATION) | Approved by: <br> Technical Manager |  |
| :--- | :--- | :--- | :--- | :--- |
| Test Report S/N: <br> $8 K 23073101-00 . A 3 L ~$ | Test Dates: <br> $04 / 12 / 2023-08 / 03 / 2023 ~$ | EUT Type: <br> RRU(RF4461d) | Page 145 of 404 |

## element



Plot 8-221. Peak To Average Power Ratio Plot (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_QPSK - Mid Channel 2T, Port 0 )


Plot 8-223. Peak To Average Power Ratio Plot (LTE B13_1C_5M_QPSK - Mid Channel_2T, Port 1)


Plot 8-225. Peak To Average Power Ratio Plot (LTE B13_1C_10M_QPSK - Mid Channel_2T, Port 0)


Plot 8-222. Peak To Average Power Ratio Plot
(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_16QAM Mid Channel 2T, Port 0 )


Plot 8-224. Peak To Average Power Ratio Plot (LTE B13_1C_5M_16QAM - Mid Channel_2T, Port 1)


Plot 8-226. Peak To Average Power Ratio Plot (LTE B13_1C_10M_64QAM - Mid Channel_2T, Port 0)

| FCC ID: A3LRF4461D-13A | MEASUREMENT REPORT <br> (CERTIFICATION) | Approved by: <br> Technical Manager |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Test Report S/N: | Test Dates: | EUT Type: <br> 8K23073101-00.A3L | $04 / 12 / 2023-08 / 03 / 2023$ | RRU(RF4461d) |

element


Plot 8-227. Peak To Average Power Ratio Plot (LTE B13_2C_5M+5M_QPSK - Mid Channel_2T, Port 0)


Plot 8-229. Peak To Average Power Ratio Plot (LTE B13_1C_5M+NB-IoT(IB)_QPSK - Low Channel_2T, Port 0)


Plot 8-228. Peak To Average Power Ratio Plot (LTE B13_2C_5M+5M_16QAM - Mid Channel_2T, Port 0)


Plot 8-230. Peak To Average Power Ratio Plot (LTE B13_1C_10M+NB-loT(1GB+1IB)_QPSK - Mid Channel_2T, Port 1)

| FCC ID: A3LRF4461D-13A | - element | MEASUREMENT REPORT (CERTIFICATION) | shmsune | Approved by: <br> Technical Manager |
| :---: | :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 8K23073101-00.A3L | Test Dates: 04/12/2023-08/03/2023 | EUT Type: RRU(RF4461d) |  | Page 147 of 404 |

element


Plot 8-231. Peak To Average Power Ratio Plot
(LTE B5_1C_5M_QPSK - Mid Channel_4T, Port 0)


Plot 8-233. Peak To Average Power Ratio Plot (LTE B5_1C_10M_QPSK - Mid Channel_4T, Port 0)


Plot 8-235. Peak To Average Power Ratio Plot (LTE B5_2C_5M+5M_QPSK - Low Channel_4T, Port 0)


Plot 8-232. Peak To Average Power Ratio Plot
(LTE B5_1C_5M_16QAM - Mid Channel_4T, Port 1)


Plot 8-234. Peak To Average Power Ratio Plot (LTE B5_1C_10M_256QAM - Mid Channel_4T, Port 0)


Plot 8-236. Peak To Average Power Ratio Plot
(LTE B5_2C_5M+5M_16QAM - High Channel_4T, Port 0)

| FCC ID: A3LRF4461D-13A | - element | MEASUREMENT REPORT (CERTIFICATION) | shmsune | Approved by: Technical Manager |
| :---: | :---: | :---: | :---: | :---: |
| Test Report S/N: 8K23073101-00.A3L | Test Dates: <br> 04/12/2023-08/03/2023 | EUT Type: RRU(RF4461d) |  | Page 148 of 404 |

## element



Plot 8-237. Peak To Average Power Ratio Plot
(LTE B5_3C_5M+10M+10M_QPSK - Mid Channel_4T, Port 0)


Plot 8-239. Peak To Average Power Ratio Plot (DSS B(n)5_1C_10M(4:6 Ratio)_QPSK - High Channel_4T, Port 0)

Plot 8-241. Peak To Average Power Ratio Plot
(DSS B(n)5_2C_10M+10M_QPSK - Mid Channel_4T, Port 1)


Plot 8-238. Peak To Average Power Ratio Plot (LTE B5_3C_5M+10M+10M_16QAM - Mid Channel_4T, Port 1)


Plot 8-240. Peak To Average Power Ratio Plot (DSS B(n)5_1C_10M(4:6 Ratio)_256QAM - Mid Channel_4T, Port 0)

Plot 8-242. Peak To Average Power Ratio Plot (DSS B(n)5_2C_10M+10M_16QAM - Low Channel_4T, Port 0)

| FCC ID: A3LRF4461D-13A | - element | MEASUREMENT REPORT (CERTIFICATION) | shmsun | Approved by: Technical Manager |
| :---: | :---: | :---: | :---: | :---: |
| Test Report S/N: 8K23073101-00.A3L | Test Dates: 04/12/2023-08/03/2023 | EUT Type: RRU(RF4461d) |  | Page 149 of 404 |

## element



Plot 8-243. Peak To Average Power Ratio Plot (NR n5_1C_5M_QPSK - High Channel_4T, Port 2)


Plot 8-245. Peak To Average Power Ratio Plot (NR n5_1C_10M_QPSK - High Channel_4T, Port 0)


Plot 8-247. Peak To Average Power Ratio Plot (NR n5_1C_15M_QPSK - Mid Channel_4T, Port 0)


Plot 8-244. Peak To Average Power Ratio Plot (NR n5_1C_5M_256QAM - Mid Channel_4T, Port 1)


Plot 8-246. Peak To Average Power Ratio Plot (NR n5_1C_10M_256QAM - Mid Channel_4T, Port 1)


Plot 8-248. Peak To Average Power Ratio Plot (NR n5_1C_15M_64QAM - Mid Channel_4T, Port 1)

| FCC ID: A3LRF4461D-13A | - element | MEASUREMENT REPORT (CERTIFICATION) | shmsune | Approved by: Technical Manager |
| :---: | :---: | :---: | :---: | :---: |
| Test Report S/N: 8K23073101-00.A3L | Test Dates: <br> 04/12/2023-08/03/2023 | EUT Type: RRU(RF4461d) |  | Page 150 of 404 |

element


Plot 8-249. Peak To Average Power Ratio Plot
(NR n5_2C_5M+5M_QPSK - Mid Channel_4T, Port 0)


Plot 8-251. Peak To Average Power Ratio Plot (NR n5_2C_10M+15M_QPSK - Mid Channel_4T, Port 1)


Plot 8-253. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_QPSK - High Channel_4T, Port 0)


Plot 8-250. Peak To Average Power Ratio Plot (NR n5_2C_5M+5M_16QAM - Mid Channel_4T, Port 1)


Plot 8-252. Peak To Average Power Ratio Plot (NR n5_2C_10M+15M_16QAM - Mid Channel_4T, Port 1)


Plot 8-254. Peak To Average Power Ratio Plot (MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_16QAM - Low Channel_4T, Port 1)

| FCC ID: A3LRF4461D-13A | - element | MEASUREMENT REPORT (CERTIFICATION) | shmsune | Approved by: Technical Manager |
| :---: | :---: | :---: | :---: | :---: |
| Test Report S/N: 8K23073101-00.A3L | Test Dates: <br> 04/12/2023-08/03/2023 | EUT Type: RRU(RF4461d) |  | Page 151 of 404 |

## element



Plot 8-255. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_QPSK - Mid
Channel 4T, Port 1)


Plot 8-257. Peak To Average Power Ratio Plot
(MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_QPSK - Mid Channel_4T, Port 1)


Plot 8-259. Peak To Average Power Ratio Plot (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_QPSK - Mid Channel_4T, Port 1)


Plot 8-256. Peak To Average Power Ratio Plot (MSR 2C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_16QAM - Mid Channel_4T, Port 0)


Plot 8-258. Peak To Average Power Ratio Plot (MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_16QAM - Low Channel_4T, Port 0)


Plot 8-260. Peak To Average Power Ratio Plot (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_16QAM - Mid Channel_4T, Port 1)

| FCC ID: A3LRF4461D-13A | MEASUREMENT REPORT <br> (CERTIFICATION) | Approved by: <br> Technical Manager |  |
| :--- | :--- | :--- | :--- | :--- |
| Test Report S/N: <br> $8 K 23073101-00 . A 3 L ~$ | Test Dates: <br> $04 / 12 / 2023-08 / 03 / 2023 ~$ | EUT Type: <br> RRU(RF4461d) | Page 152 of 404 |

## element



Plot 8-261. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_QPSK - Mid Channel_4T, Port


Plot 8-263. Peak To Average Power Ratio Plot (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_QPSK - Mid Channel_4T, Port 1)


Plot 8-265. Peak To Average Power Ratio Plot (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_QPSK High Channel_4T, Port 0)


Plot 8-262. Peak To Average Power Ratio Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_16QAM - High Channel_4T, Port 0)


Plot 8-264. Peak To Average Power Ratio Plot (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_16QAM - Mid Channel_4T, Port 0)


Plot 8-266. Peak To Average Power Ratio Plot (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_16QAM High Channel_4T, Port 1)

| FCC ID: A3LRF4461D-13A | MEASUREMENT REPORT <br> (CERTIFICATION) | Approved by: <br> Technical Manager |  |
| :--- | :--- | :--- | :--- | :--- |
| Test Report S/N: <br> $8 K 23073101-00 . A 3 L ~$ | Test Dates: <br> $04 / 12 / 2023-08 / 03 / 2023 ~$ | EUT Type: <br> RRU(RF4461d) | Page 153 of 404 |

