

Applicant: <u>Shenzhen Hismith Technology Co., Ltd</u>	
Case No. : <u>18220WC201637</u>	
EUT: <u>Auxfun Sex Machine</u>	
M/N: <u>HS25</u>	
Test Power Supply: <u>NA</u>	
Ambient Condition: <u>26</u> °C, <u>48</u> %RH, <u>101.325</u> kPa	
According Standard: ☒ ; ☐ other:	
Test Date: <u>2020.7.30</u>	Test Engineer: <u>Blue</u>

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.628	2402.344	0.5	PASS
		2440	0.732	2439.620	2440.352	0.5	PASS
		2480	0.724	2479.624	2480.348	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power**Test Result Peak**

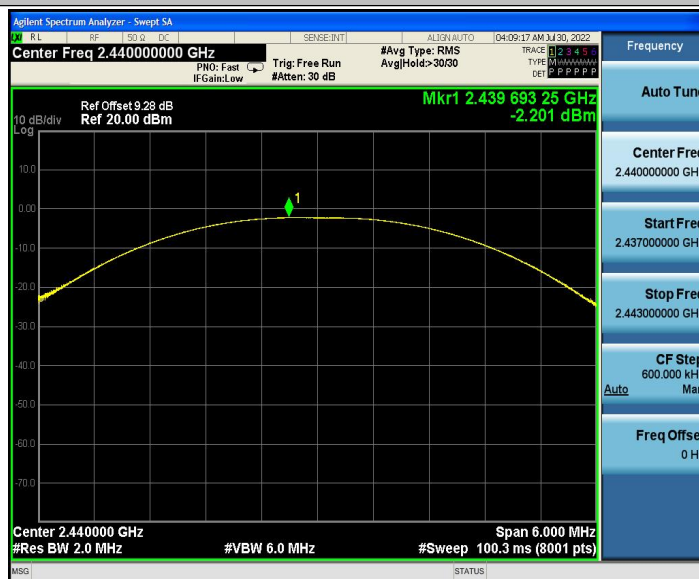
TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.77	≤30	-2.77	≤36	PASS
		2440	-2.2	≤30	-2.2	≤36	PASS
		2480	-5.19	≤30	-5.19	≤36	PASS

Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix D: Maximum power spectral density

Test Result

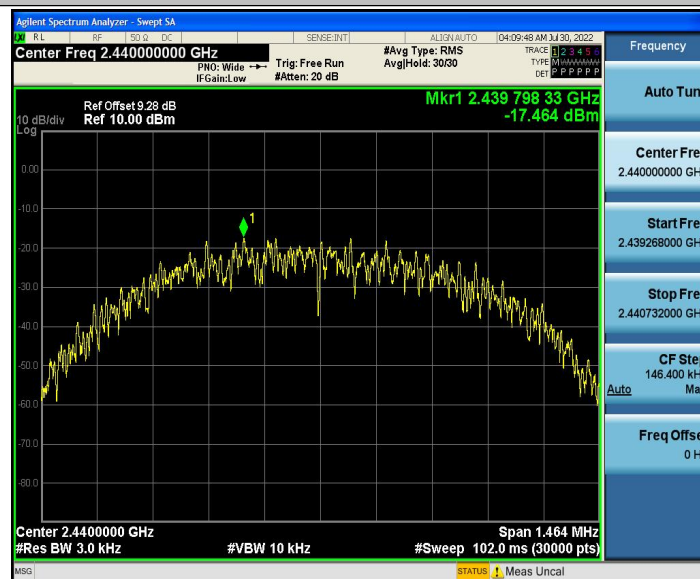
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.6	≤ 8	PASS
		2440	-17.46	≤ 8	PASS
		2480	-19.45	≤ 8	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



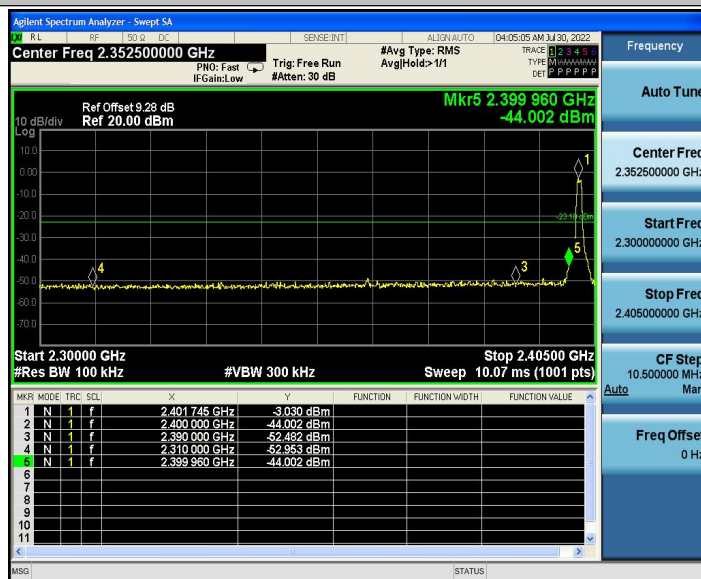
Appendix E: Band edge measurements

Test Result

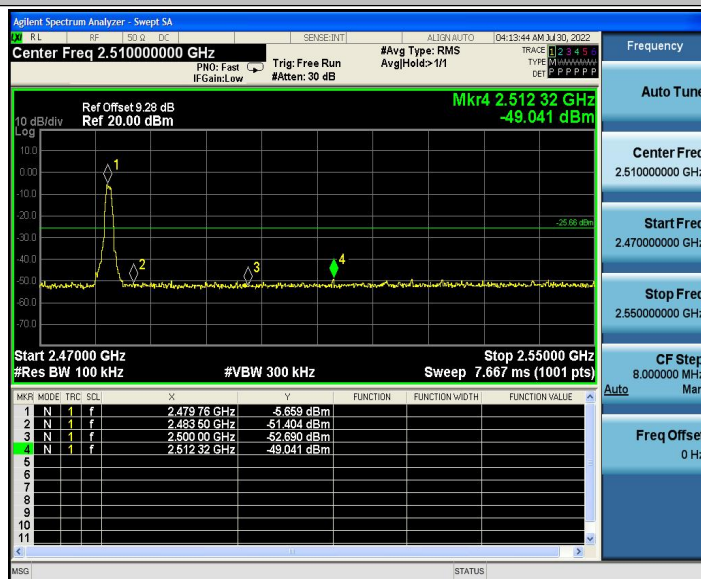
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.10	-44.48	≤ -23.1	PASS
		High	2480	-5.66	-49.04	≤ -25.66	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

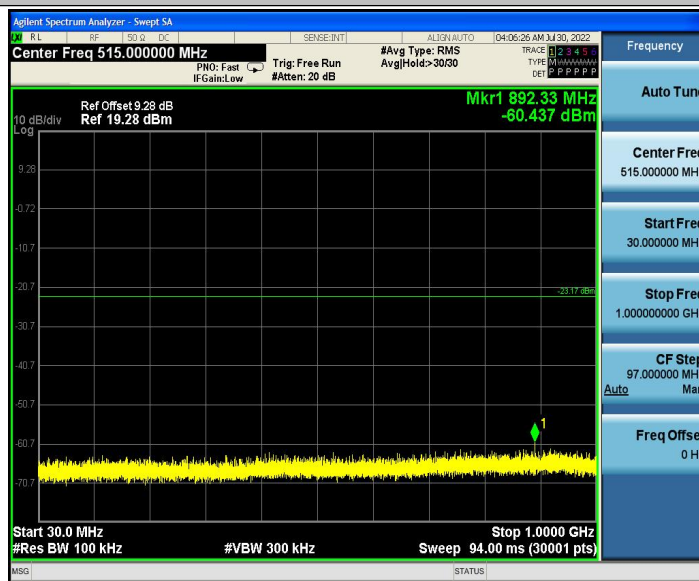
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.17	-3.17	---	PASS
			30~1000	-3.17	-60.44	≤-23.17	PASS
			1000~26500	-3.17	-31.38	≤-23.17	PASS
		2440	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-60.85	≤-22.61	PASS
			1000~26500	-2.61	-26.96	≤-22.61	PASS
		2480	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-61.42	≤-25.79	PASS
			1000~26500	-5.79	-30.03	≤-25.79	PASS

Test Graphs

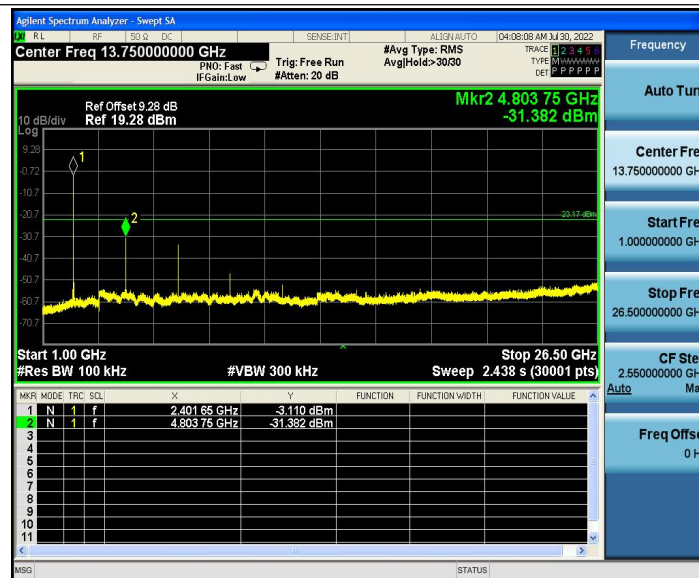
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



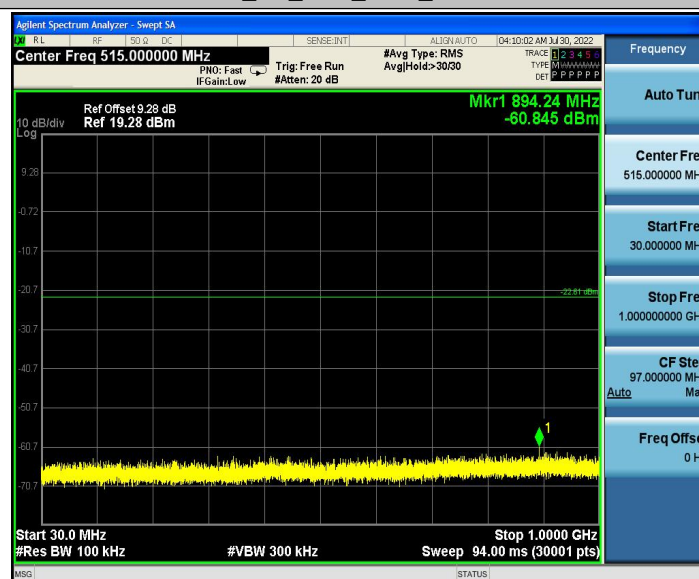
BLE_1M_Ant1_2402_1000~26500



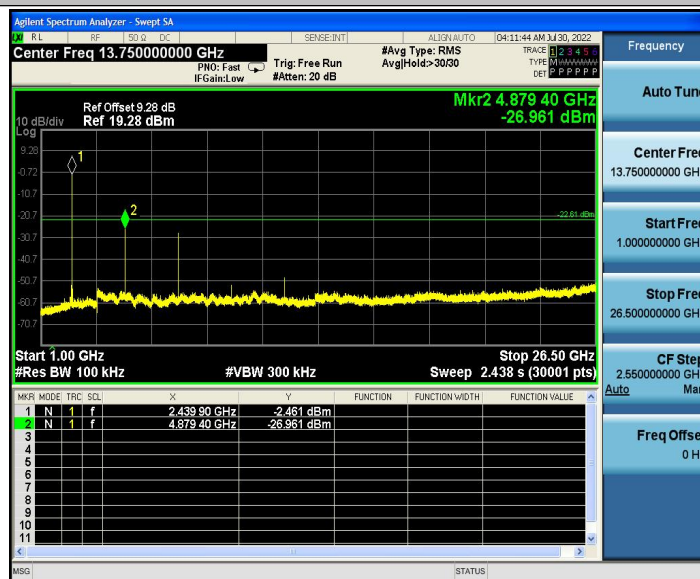
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



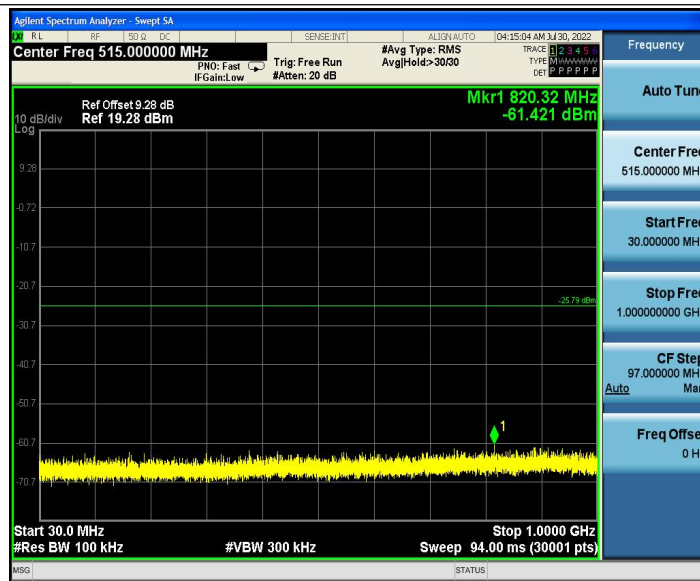
BLE_1M_Ant1_2440_1000~26500



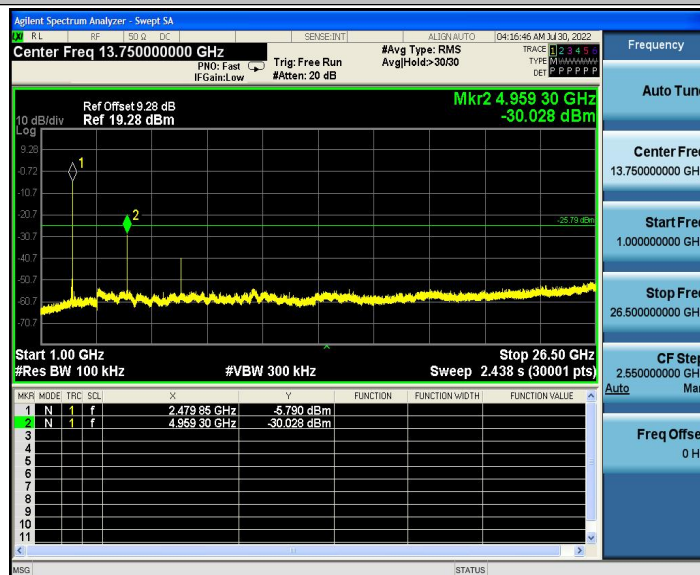
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



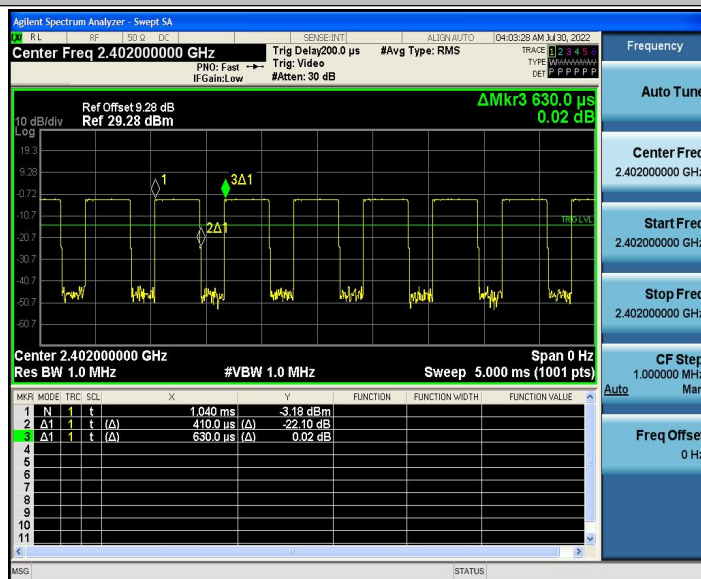
Appendix G: Duty Cycle

Test Result

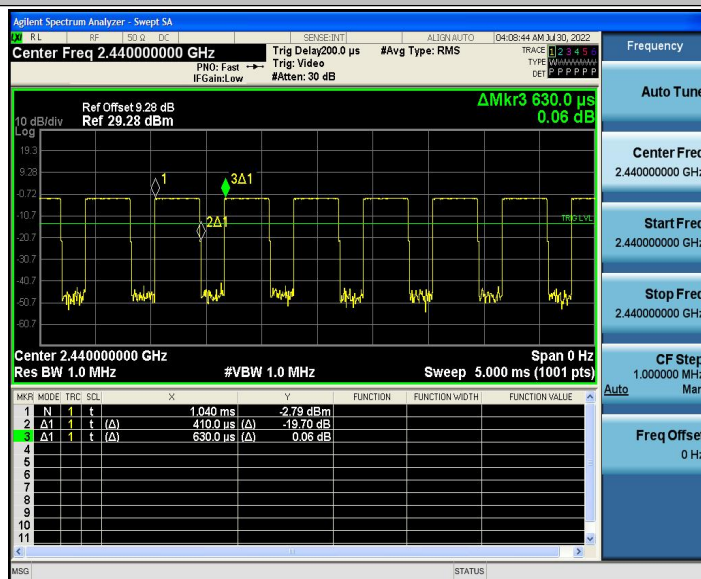
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	PASS
		2440	0.41	0.63	0.6508	65.08	1.87	---	PASS
		2480	0.41	0.63	0.6508	65.08	1.87	---	PASS

Test Graphs

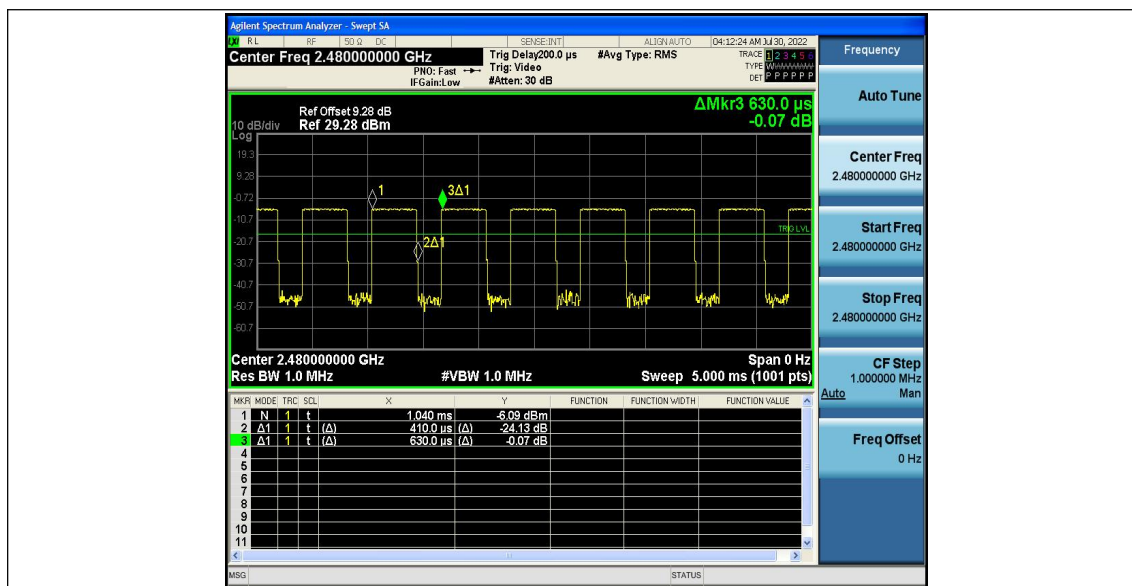
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2362.055	-46.82	≤-41.20	48.38	≤54	PASS
				AV	2390.000	-47.58	≤-41.20	47.62	≤54	PASS
				Peak	2310.000	-40.19	≤-21.20	55.01	≤74	PASS
				Peak	2385.470	-37.25	≤-21.20	57.95	≤74	PASS
				Peak	2390.000	-38.28	≤-21.20	56.92	≤74	PASS
		High	2480	AV	2483.500	-48.27	≤-41.20	46.93	≤54	PASS
				AV	2489.040	-47.96	≤-41.20	47.24	≤54	PASS
				AV	2500.000	-48.27	≤-41.20	46.93	≤54	PASS
				Peak	2483.500	-38.92	≤-21.20	56.28	≤74	PASS
				Peak	2488.560	-37.81	≤-21.20	57.39	≤74	PASS
				Peak	2500.000	-39.27	≤-21.20	55.93	≤74	PASS

Note:

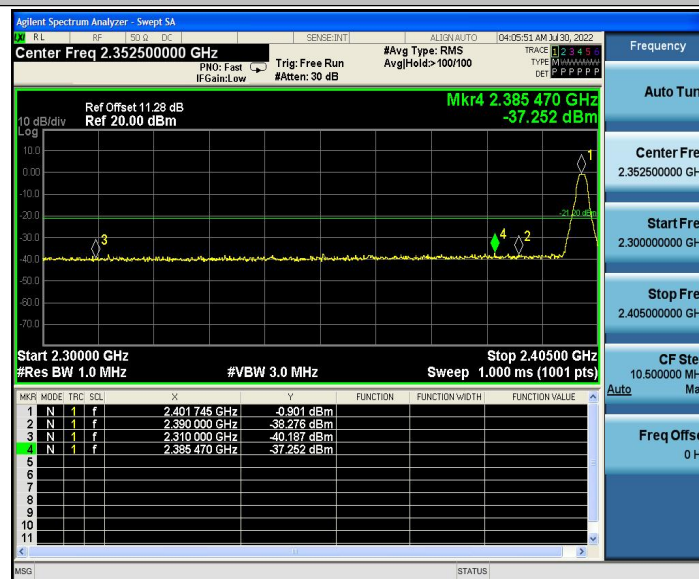
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

