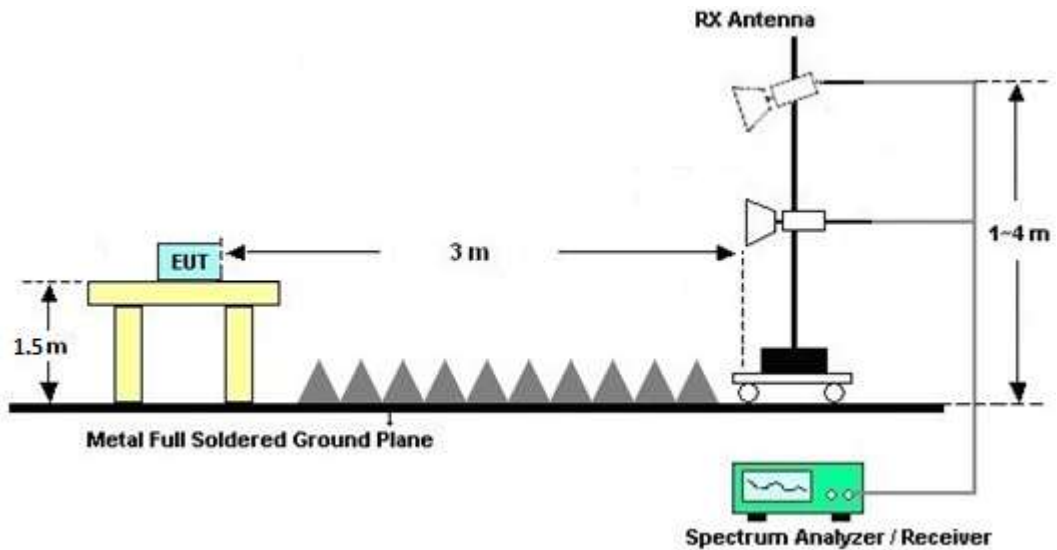
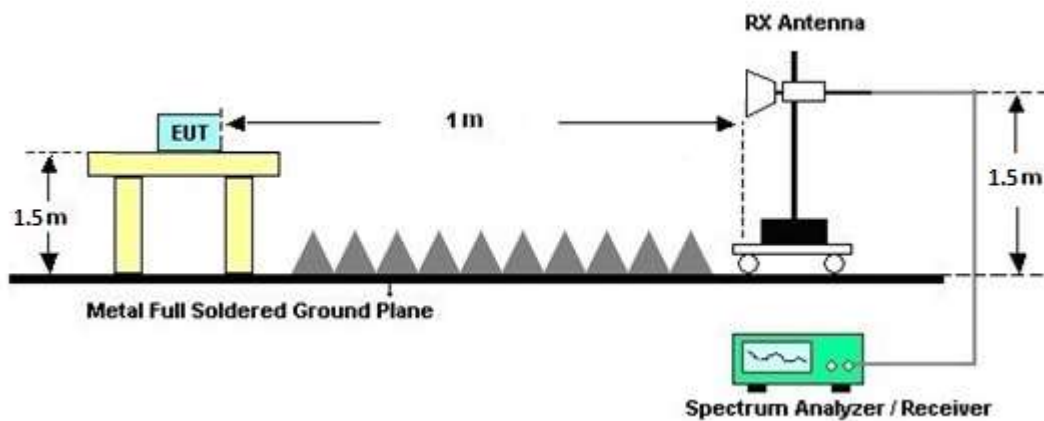


For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.2.6 Test Result of Conducted Spurious at Band Edges

Please refer to Appendix B and C.

3.2.7 Duty Cycle

Please refer to Appendix E.

3.2.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix D.



3.3 Antenna Requirements

3.3.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.3.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jun. 05, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Jun. 05, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Nov. 12, 2025	Jun. 05, 2026	Nov. 11, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Jun. 05, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Jun. 05, 2026	N/A	Conducted (TH05-HY)
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 16, 2026	Jun. 08, 2026~ Jun. 24, 2026	Mar. 15, 2027	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Jun. 08, 2026~ Jun. 24, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18E N	1GHz~18GHz	Aug. 07, 2025	Jun. 08, 2026~ Jun. 24, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Jun. 08, 2026~ Jun. 24, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Jun. 08, 2026~ Jun. 24, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Jun. 08, 2026~ Jun. 24, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Jun. 08, 2026~ Jun. 24, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 09, 2025	Jun. 08, 2026~ Jun. 24, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Jun. 08, 2026~ Jun. 24, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER+SUHNER,EMCI	SUCOFLEX 102,EMC101Y (KM-KM-500)	803954/2,804 612/2,251042 34,25104235	30MHz~40GHz	Dec. 19, 2026	Jun. 08, 2026~ Jun. 24, 2026	Dec. 18, 2027	Radiation (03CH21-HY)
Hygrometer	TECEP	DTM-303A	TP211568	N/A	Oct. 21, 2025	Jun. 08, 2026~ Jun. 24, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)



FCC RADIO TEST REPORT

Report No. :FR651934B

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Aug. 27, 2025	Jun. 25, 2026~ Jun. 27, 2026	Aug. 26, 2026	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102E	505134/2	30MHz~40GHz	Oct. 31, 2025	Jun. 25, 2026~ Jun. 27, 2026	Oct. 30, 2026	CSE (TH05-HY)

5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2026/6/5	Relative Humidity:	51~54	%

TEST RESULTS DATA

Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	1Mbps	1	0	2402	8.60	30.00	1.86	10.46	36.00	Pass	2
BLE	1Mbps	1	19	2440	8.80	30.00	1.86	10.66	36.00	Pass	2
BLE	1Mbps	1	39	2480	8.90	30.00	1.86	10.76	36.00	Pass	2

<u>TEST RESULTS DATA</u> <u>Average Power Table</u>											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	2Mbps	1	0	2402	8.60	30.00	1.86	10.46	36.00	Pass	2
BLE	2Mbps	1	19	2440	8.80	30.00	1.86	10.66	36.00	Pass	2
BLE	2Mbps	1	39	2480	8.90	30.00	1.86	10.76	36.00	Pass	2



Appendix B. Conducted Spurious Emission

Test Engineer :	Kai Liao	Temperature :	22.1~24.9°C
		Relative Humidity :	48.3~51.9%

2.4GHz 2400~2483.5MHz

BLE (Band Edge)

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE CH 00 2402MHz		2341.92	-45.71	-24.51	-21.2	-49.37	2	1.66	0	0	P
		2341.92	-55.89	-14.69	-41.2	-59.55	2	1.66	0	0	A
	*	2402	10.87	-	-	6.96	2	1.91	0	0	P
	*	2402	9.43	-	-	5.52	2	1.91	0	0	A
BLE CH 39 2480MHz	*	2480	11.49	-	-	7.54	2	1.95	0	0	P
	*	2480	10.03	-	-	6.08	2	1.95	0	0	A
		2483.56	-36.12	-14.92	-21.2	-40.07	2	1.95	0	0	P
		2483.52	-52.35	-11.15	-41.2	-56.3	2	1.95	0	0	A
Remark	- No other spurious found. - All results are PASS against Peak and Average limit line.										



Appendix C. Conducted Spurious Emission Plots

Test Engineer :	Kai Liao	Temperature :	22.1~24.9°C
		Relative Humidity :	48.3~51.9%

Note symbol

-L	Low channel location
-R	High channel location

2.4GHz 2400~2483.5MHz

BLE (Band Edge)

Ant.	2.4GHz 2400~2483.5MHz	
1	BLE CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+2 HORIZONTAL Detector : Peak Project : 651934 Mode : 12 Setting : 2 Ant : 1	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+2 HORIZONTAL Detector : Peak Project : 651934 Mode : 12 Setting : 2 Ant : 1
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+2 HORIZONTAL Detector : Peak Project : 651934 Mode : 12 Setting : 2 Ant : 1	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+2 HORIZONTAL Detector : Peak Project : 651934 Mode : 12 Setting : 2 Ant : 1



ANT	2.4GHz 2400~2483.5MHz	
1	BLE CH39 2480MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+2 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : 651934 Mode : 14 Setting : 2 Ant : 1	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+2 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : 651934 Mode : 14 Setting : 2 Ant : 1
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+2 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : 651934 Mode : 14 Setting : 2 Ant : 1	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+2 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : 651934 Mode : 14 Setting : 2 Ant : 1



Appendix D. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng and Ray Lung	Temperature :	19.7 ~ 23.1°C
		Relative Humidity :	65.3 ~ 70.1%

Note symbol

-L	Low channel location
-R	High channel location



D1.Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 7	2400-2483.5	1	Bluetooth-LE GSKF	19	2440	2Mbps	-	-
Mode 9	2400-2483.5	1	Bluetooth-LE GSKF	39	2480	2Mbps	-	LF
Mode 10	2400-2483.5	1	Bluetooth-LE GSKF	39	2480	2Mbps	-	SHF

D2.Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
7	Bluetooth-LE GSKF	19	-	-	-	-	-	-	-	-	Band Edge
	Bluetooth-LE GSKF	19	7206.00	39.09	54.00	-14.91	H	Avg.	Pass	-	Harmonic
9	LF	39	99.84	33.79	43.50	-9.71	H	Peak	Pass	-	LF
10	SHF	39	23243.00	42.08	74.00	-31.92	V	Peak	Pass	-	SHF



Mode	7																																																																																																																																							
	Harmonic																																																																																																																																							
	2400-2483.5_Bluetooth-LE GSKF_CH19_2440MHz																																																																																																																																							
ANT	1																																																																																																																																							
Pol.	Horizontal								Vertical																																																																																																																															
Peak Avg	Level (dBuV/m) Date: 2026-06-15 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>4804.00</td><td>45.86</td><td>74.00</td><td>-28.14</td><td>33.19</td><td>32.21</td><td>12.13</td><td>34.11</td><td>2.44 -- -- Peak</td></tr><tr><td>2</td><td>7206.00</td><td>48.84</td><td>74.00</td><td>-25.16</td><td>32.51</td><td>36.40</td><td>14.94</td><td>36.35</td><td>1.34 -- -- Peak</td></tr><tr><td>3</td><td>7206.00</td><td>39.09</td><td>54.00</td><td>-14.91</td><td>22.76</td><td>36.40</td><td>14.94</td><td>36.35</td><td>1.34 -- -- Average</td></tr></table>									Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	4804.00	45.86	74.00	-28.14	33.19	32.21	12.13	34.11	2.44 -- -- Peak	2	7206.00	48.84	74.00	-25.16	32.51	36.40	14.94	36.35	1.34 -- -- Peak	3	7206.00	39.09	54.00	-14.91	22.76	36.40	14.94	36.35	1.34 -- -- Average	Level (dBuV/m) Date: 2026-06-15 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>4804.00</td><td>46.65</td><td>74.00</td><td>-27.35</td><td>33.98</td><td>32.21</td><td>12.13</td><td>34.11</td><td>2.44 -- -- Peak</td></tr><tr><td>2</td><td>7206.00</td><td>48.86</td><td>74.00</td><td>-25.14</td><td>32.53</td><td>36.40</td><td>14.94</td><td>36.35</td><td>1.34 -- -- Peak</td></tr><tr><td>3</td><td>7206.00</td><td>38.79</td><td>54.00</td><td>-15.21</td><td>22.46</td><td>36.40</td><td>14.94</td><td>36.35</td><td>1.34 -- -- Average</td></tr></table>									Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	4804.00	46.65	74.00	-27.35	33.98	32.21	12.13	34.11	2.44 -- -- Peak	2	7206.00	48.86	74.00	-25.14	32.53	36.40	14.94	36.35	1.34 -- -- Peak	3	7206.00	38.79	54.00	-15.21	22.46	36.40	14.94	36.35	1.34 -- -- Average
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																														
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg																																																																																																																															
1	4804.00	45.86	74.00	-28.14	33.19	32.21	12.13	34.11	2.44 -- -- Peak																																																																																																																															
2	7206.00	48.84	74.00	-25.16	32.51	36.40	14.94	36.35	1.34 -- -- Peak																																																																																																																															
3	7206.00	39.09	54.00	-14.91	22.76	36.40	14.94	36.35	1.34 -- -- Average																																																																																																																															
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																															
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg																																																																																																																															
1	4804.00	46.65	74.00	-27.35	33.98	32.21	12.13	34.11	2.44 -- -- Peak																																																																																																																															
2	7206.00	48.86	74.00	-25.14	32.53	36.40	14.94	36.35	1.34 -- -- Peak																																																																																																																															
3	7206.00	38.79	54.00	-15.21	22.46	36.40	14.94	36.35	1.34 -- -- Average																																																																																																																															



Mode	7	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSKF_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	Level (dBuV/m) Date: 2026-06-15 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL	Level (dBuV/m) Date: 2026-06-15 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL



Mode	9																																																																																																																																																																																																																																													
	LF																																																																																																																																																																																																																																													
	2400-2483.5_Bluetooth-LE GSKF_CH39_2480MHz																																																																																																																																																																																																																																													
ANT	1																																																																																																																																																																																																																																													
Pol.	Horizontal							Vertical																																																																																																																																																																																																																																						
QPI Peak	Level (dBuV/m) Date: 2026-06-11 Site : 03CH21-HY Condition: QP 3m LF_633038001_251126 HORIZONTAL <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>68.80</td><td>23.73</td><td>40.00</td><td>-16.27</td><td>42.56</td><td>12.21</td><td>1.40</td><td>32.47</td><td>0.03</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>99.84</td><td>33.79</td><td>43.50</td><td>-9.71</td><td>48.35</td><td>16.16</td><td>1.69</td><td>32.46</td><td>0.05</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>272.58</td><td>25.57</td><td>46.00</td><td>-20.43</td><td>36.24</td><td>18.89</td><td>2.84</td><td>32.47</td><td>0.07</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>289.96</td><td>34.90</td><td>46.00</td><td>-11.10</td><td>45.20</td><td>19.18</td><td>2.92</td><td>32.47</td><td>0.07</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>747.80</td><td>30.20</td><td>46.00</td><td>-15.80</td><td>29.61</td><td>28.28</td><td>4.73</td><td>32.56</td><td>0.14</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>954.41</td><td>33.38</td><td>46.00</td><td>-12.62</td><td>27.81</td><td>31.20</td><td>5.34</td><td>31.18</td><td>0.21</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr></table>								Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	dB	cm	deg		1	68.80	23.73	40.00	-16.27	42.56	12.21	1.40	32.47	0.03	--	--	--	Peak	2	99.84	33.79	43.50	-9.71	48.35	16.16	1.69	32.46	0.05	--	--	--	Peak	3	272.58	25.57	46.00	-20.43	36.24	18.89	2.84	32.47	0.07	--	--	--	Peak	4	289.96	34.90	46.00	-11.10	45.20	19.18	2.92	32.47	0.07	--	--	--	Peak	5	747.80	30.20	46.00	-15.80	29.61	28.28	4.73	32.56	0.14	--	--	--	Peak	6	954.41	33.38	46.00	-12.62	27.81	31.20	5.34	31.18	0.21	--	--	--	Peak	Level (dBuV/m) Date: 2026-06-11 Site : 03CH21-HY Condition: QP 3m LF_633038001_251126 VERTICAL <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>32.91</td><td>30.25</td><td>40.00</td><td>-9.75</td><td>38.91</td><td>22.89</td><td>0.93</td><td>32.50</td><td>0.02</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>92.88</td><td>32.61</td><td>43.50</td><td>-10.89</td><td>48.17</td><td>15.22</td><td>1.62</td><td>32.45</td><td>0.05</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>263.77</td><td>22.36</td><td>46.00</td><td>-23.64</td><td>31.67</td><td>20.29</td><td>2.80</td><td>32.47</td><td>0.07</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>287.05</td><td>28.35</td><td>46.00</td><td>-17.65</td><td>38.76</td><td>19.08</td><td>2.91</td><td>32.47</td><td>0.07</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>753.62</td><td>30.93</td><td>46.00</td><td>-15.07</td><td>30.25</td><td>28.33</td><td>4.75</td><td>32.54</td><td>0.14</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>949.56</td><td>33.34</td><td>46.00</td><td>-12.66</td><td>27.94</td><td>31.10</td><td>5.33</td><td>31.23</td><td>0.20</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr></table>								Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	dB	cm	deg		1	32.91	30.25	40.00	-9.75	38.91	22.89	0.93	32.50	0.02	--	--	--	Peak	2	92.88	32.61	43.50	-10.89	48.17	15.22	1.62	32.45	0.05	--	--	--	Peak	3	263.77	22.36	46.00	-23.64	31.67	20.29	2.80	32.47	0.07	--	--	--	Peak	4	287.05	28.35	46.00	-17.65	38.76	19.08	2.91	32.47	0.07	--	--	--	Peak	5	753.62	30.93	46.00	-15.07	30.25	28.33	4.75	32.54	0.14	--	--	--	Peak	6	949.56	33.34	46.00	-12.66	27.94	31.10	5.33	31.23	0.20	--	--	--	Peak
		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																																
		MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	dB	cm	deg																																																																																																																																																																																																																																	
1	68.80	23.73	40.00	-16.27	42.56	12.21	1.40	32.47	0.03	--	--	--	Peak																																																																																																																																																																																																																																	
2	99.84	33.79	43.50	-9.71	48.35	16.16	1.69	32.46	0.05	--	--	--	Peak																																																																																																																																																																																																																																	
3	272.58	25.57	46.00	-20.43	36.24	18.89	2.84	32.47	0.07	--	--	--	Peak																																																																																																																																																																																																																																	
4	289.96	34.90	46.00	-11.10	45.20	19.18	2.92	32.47	0.07	--	--	--	Peak																																																																																																																																																																																																																																	
5	747.80	30.20	46.00	-15.80	29.61	28.28	4.73	32.56	0.14	--	--	--	Peak																																																																																																																																																																																																																																	
6	954.41	33.38	46.00	-12.62	27.81	31.20	5.34	31.18	0.21	--	--	--	Peak																																																																																																																																																																																																																																	
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																																	
	MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	dB	cm	deg																																																																																																																																																																																																																																		
1	32.91	30.25	40.00	-9.75	38.91	22.89	0.93	32.50	0.02	--	--	--	Peak																																																																																																																																																																																																																																	
2	92.88	32.61	43.50	-10.89	48.17	15.22	1.62	32.45	0.05	--	--	--	Peak																																																																																																																																																																																																																																	
3	263.77	22.36	46.00	-23.64	31.67	20.29	2.80	32.47	0.07	--	--	--	Peak																																																																																																																																																																																																																																	
4	287.05	28.35	46.00	-17.65	38.76	19.08	2.91	32.47	0.07	--	--	--	Peak																																																																																																																																																																																																																																	
5	753.62	30.93	46.00	-15.07	30.25	28.33	4.75	32.54	0.14	--	--	--	Peak																																																																																																																																																																																																																																	
6	949.56	33.34	46.00	-12.66	27.94	31.10	5.33	31.23	0.20	--	--	--	Peak																																																																																																																																																																																																																																	

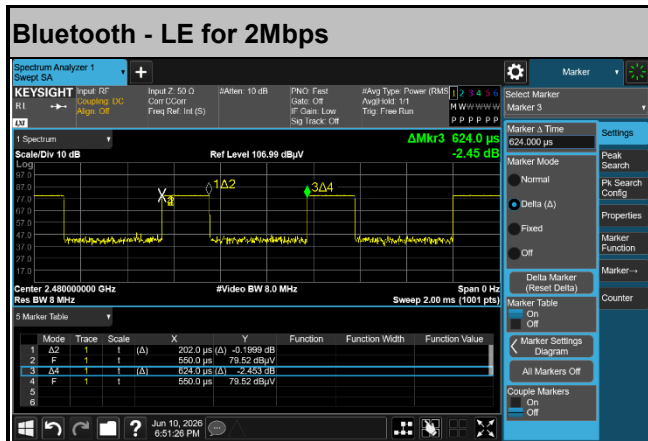


Mode	10																																																																																																
	SHF																																																																																																
	2400-2483.5_Bluetooth-LE GSKF_CH39_2480MHz																																																																																																
ANT	1																																																																																																
Pol.	Horizontal						Vertical																																																																																										
Peak	Date: 2026-06-11 Site : 03CH21-HY Condition: PEAK_74 1m BBHA9170_1223_250702 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>24433.00</td><td>41.55</td><td>74.00</td><td>-32.45</td><td>43.24</td><td>39.33</td><td>28.53</td><td>60.01</td><td>-9.54</td><td>--</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	24433.00	41.55	74.00	-32.45	43.24	39.33	28.53	60.01	-9.54	--	Peak	Date: 2026-06-11 Site : 03CH21-HY Condition: PEAK_74 1m BBHA9170_1223_250702 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>23243.00</td><td>42.00</td><td>74.00</td><td>-31.92</td><td>44.73</td><td>39.19</td><td>27.80</td><td>60.10</td><td>-9.54</td><td>--</td><td>Peak</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	23243.00	42.00	74.00	-31.92	44.73	39.19	27.80	60.10	-9.54	--	Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																							
	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor																																																																																										
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																							
1	24433.00	41.55	74.00	-32.45	43.24	39.33	28.53	60.01	-9.54	--	Peak																																																																																						
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																								
Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor																																																																																											
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																							
1	23243.00	42.00	74.00	-31.92	44.73	39.19	27.80	60.10	-9.54	--	Peak																																																																																						



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 2Mbps	32.37	202	4.95	5.1KHz





Appendix G. Sample List

Features	Specifications
CPU	Intel, CPU WCL C5 320 (204) Intel, CPU WCL C5 315 (204) Intel, CPU WCL C3 304 (104)
Memory (On Board)	Samsung, K3KL9L90DM-MGCU (64Gb) SK Hynix, H58G66CK8BX147 (64Gb) Samsung, K3KL9L90EM-MGCU (64Gb) Samsung, K3KL8L80DM-MGCU (32Gb) SK Hynix, H58G56CK8BX146 (32Gb) Samsung, K3KL8L80EM-MGCU (32Gb)
PCB	AOSHIKANG, K-3 ZHIBOXIN, zbx002
WLAN	Intel, Wi-Fi 6E AX211.D2WG.NV
SSD	Samsung, MZVL8512HFLU-00B07 (512GB) PM9C1b Phison ESO512GTLCL-EM1-2AK (512GB) ABT3 TWSC, TSC1DN256-F8T30ST (256GB) Phison, ESO01TBTCLCL-EM1-2AK (1TB) ABT3 Phison, ESO256GHLCJ-EL1-2AK (256G) ABT2 Samsung MZVL81T0HFLB-00B07 (1TB) PM9C1b Samsung, MZVL8256HFJD-00B07 (256GB) PM9C1b SK Hynix, HFS001TEM9X174N (1TB) PCV10 SK Hynix, HFS512GEM9X174N (512GB) PVC10 LONGSYS, APF20-256G-P28111321A (256GB)
Display	K&D tech, KD140N52-30NI-A001 K&D tech, KD140N57-40IE-A001 STARRY ELECTRONIC TECHNOLOGY, 2061140OP8045002-52E
Battery	Ganfeng, BATLG14S1P61
Camera	Shinotech, GL213B-0A SUNWIN, SIDCF020S1161-VA
Adapter	PI Electronics, LP65WFC20P HONOR, LP65WFC20H
Antenna	Innowave, main & aux antenna Speed, main & aux antenna

Priority	Vendor	Part Number	Sample 1	Sample 2	Sample 3	Sample 4
CPU	Intel	CPU WCL C5 320 (204)	V			V
		CPU WCL C5 315 (204)		V		
		CPU WCL C3 304 (104)			V	
Memory (On Board)	Samsung	K3KL9L90DM-MGCU (64Gb)		V		
	SK Hynix	H58G66CK8BX147 (64Gb)	V			V
	Samsung	K3KL9L90EM-MGCU (64Gb)			V	
	Samsung	K3KL8L80DM-MGCU (32Gb)				
	SK Hynix	H58G56CK8BX146 (32Gb)				
	Samsung	K3KL8L80EM-MGCU (32Gb)				
PCB	AOSHIKANG	K-3	V	V		V
	ZHIBOXIN	zbx002			V	
WLAN	Intel	Wi-Fi 6E AX211.D2WG.NV	V	V	V	V
SSD	Samsung	MZVL8512HFLU-00B07 (512GB) PM9C1b	V			
	Phison	ESO512GTLCL-EM1- 2AK (512GB) ABT3		V		
	TWSC	TSC1DN256-F8T30ST (256GB)			V	
	Phison	ESO01TBTCLCL-EM1- 2AK (1TB) ABT3				V
	Phison	ESO256GHL CJ-EL1- 2AK (256G) ABT2				
	Samsung	MZVL81T0HFLB-00B07 (1TB) PM9C1b				
	Samsung	MZVL8256HFJD-00B07 (256GB) PM9C1b				
	SK Hynix	HFS001TEM9X174N (1TB) PCV10				
	LONGSYS	APF20-256G- P28111321A (256GB)				
Display	K&D tech	KD140N52-30NI-A001	V			V
	K&D tech	KD140N57-40IE-A001		V		
	STARRY ELECTRONIC TECHNOLOGY	20611400P8045002- 52E			V	
Battery	Ganfeng,	BATLG14S1P61	V	V	V	V
Camera	Shinotech,	GL213B-0A	V	V		V
	SUNWIN	SIDCF020S1161-VA			V	
Adapter	PI Electronics	LP65WFC20P	V	V	V	V
	HONOR,	LP65WFC20H	V	V	V	V
Antenna	Innowave	main & aux antenna	V	V		V
	Speed	main & aux antenna			V	

Priority	Vendor	Part Number	Sample 5	Sample 6	Sample 7
CPU	Intel	CPU WCL C5 320 (204)	V	V	V
		CPU WCL C5 315 (204)			
		CPU WCL C3 304 (104)			
Memory (On Board)	Samsung	K3KL9L90DM-MGCU (64Gb)			
	SK Hynix	H58G66CK8BX147 (64Gb)	V	V	V
	Samsung	K3KL9L90EM-MGCU (64Gb)			
	Samsung	K3KL8L80DM-MGCU (32Gb)			
	SK Hynix	H58G56CK8BX146 (32Gb)			
	Samsung	K3KL8L80EM-MGCU (32Gb)			
PCB	AOSHIKANG	K-3	V	V	V
	ZHIBOXIN	zbx002			
WLAN	Intel	Wi-Fi 6E AX211.D2WG.NV	V	V	V
SSD	Samsung	MZVL8512HFLU-00B07 (512GB) PM9C1b			
	Phison	ESO512GTLCL-EM1- 2AK (512GB) ABT3			
	TWSC	TSC1DN256-F8T30ST (256GB)			
	Phison	ESO01TBTCLCL-EM1- 2AK (1TB) ABT3			
	Phison	ESO256GHLCL-EL1- 2AK (256G) ABT2			
	Samsung	MZVL81T0HFLB-00B07 (1TB) PM9C1b	V		
	Samsung	MZVL8256HFJD-00B07 (256GB) PM9C1b			
	SK Hynix	HFS001TEM9X174N (1TB) PCV10		V	
	LONGSYS	APF20-256G- P28111321A (256GB)			V
Display	K&D tech	KD140N52-30NI-A001	V	V	V
	K&D tech	KD140N57-40IE-A001			
	STARRY ELECTRONIC TECHNOLOGY	20611400P8045002- 52E			
Battery	Ganfeng,	BATLG14S1P61	V	V	V
Camera	Shinotech,	GL213B-0A	V	V	V
	SUNWIN	SIDCF020S1161-VA			
Adapter	PI Electronics	LP65WFC20P	V	V	V
	HONOR	LP65WFC20H	V	V	V
Antenna	Innowave	main & aux antenna	V	V	V
	Speed	main & aux antenna			