



Appendix D. Radiated Spurious Emission Plots

Note symbol

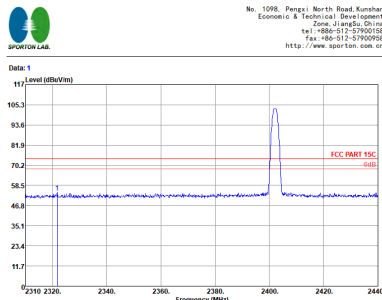
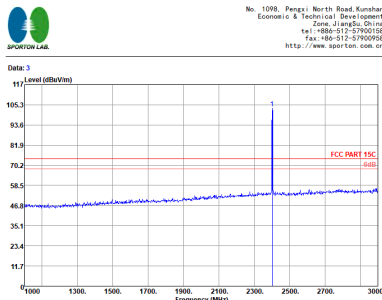
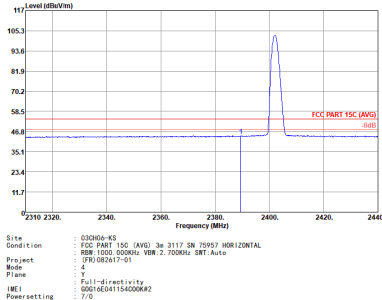
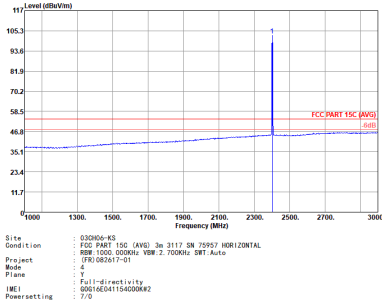
-L	Low channel location
-R	High channel location



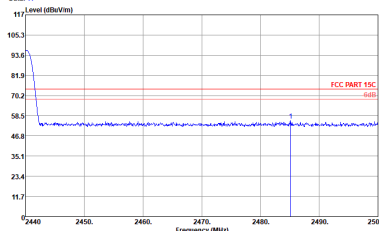
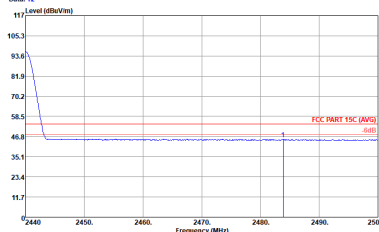
Bluetooth LE 1Mbps

2.4GHz 2400~2483.5MHz

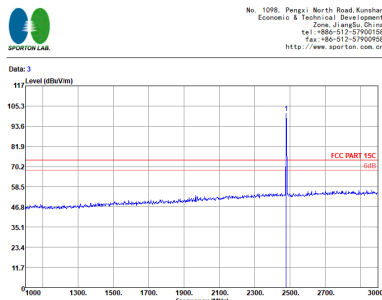
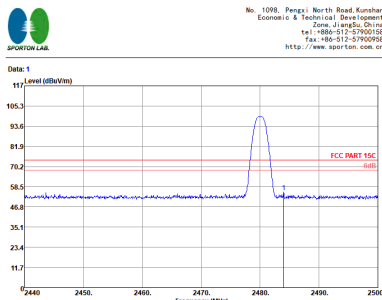
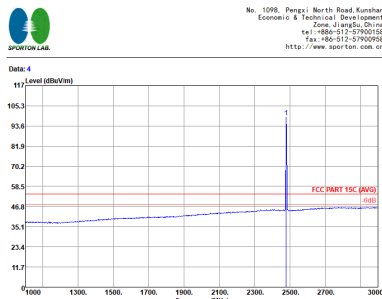
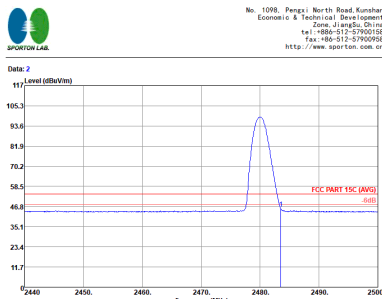
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																																																										
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	Horizontal	Fundamental																																																																																																																									
Peak	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030906-K3 Condition : FCC PART 15C 3e 3117 SN 75957 HORIZONTAL Project : RSM 1000 000KHz VSW 3000 000KHz SMT Auto Bode : (FR) 082617-01 Plane : 4 Full-directivity : 00010E041154000K2 Power setting : 7/0 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2321.70</td><td>54.39</td><td>-19.61</td><td>74.00</td><td>47.95</td><td>31.95</td><td>7.95</td><td>33.46</td><td>126</td><td>215 Peak</td><td>HORIZONTAL</td></tr></tbody></table>  No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030906-K3 Condition : FCC PART 15C 3e 3117 SN 75957 HORIZONTAL Project : RSM 1000 000KHz VSW 3000 000KHz SMT Auto Bode : (FR) 082617-01 Plane : 4 Full-directivity : 00010E041154000K2 Power setting : 7/0 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2402.00</td><td>103.38</td><td>29.38</td><td>74.00</td><td>96.53</td><td>32.20</td><td>8.09</td><td>33.44</td><td>126</td><td>215 Peak</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg	1	2321.70	54.39	-19.61	74.00	47.95	31.95	7.95	33.46	126	215 Peak	HORIZONTAL	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg	1	2402.00	103.38	29.38	74.00	96.53	32.20	8.09	33.44	126	215 Peak	HORIZONTAL	Avg.	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030906-K3 Condition : FCC PART 15C (AVG) 3e 3117 SN 75957 HORIZONTAL Project : RSM 1000 000KHz VSW 2.700KHz SMT Auto Bode : (FR) 082617-01 Plane : 4 Full-directivity : 00010E041154000K2 Power setting : 7/0 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2389.43</td><td>44.27</td><td>-9.73</td><td>54.00</td><td>37.48</td><td>32.15</td><td>8.09</td><td>33.45</td><td>126</td><td>215 Average</td><td>HORIZONTAL</td></tr></tbody></table>  No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030906-K3 Condition : FCC PART 15C (AVG) 3e 3117 SN 75957 HORIZONTAL Project : RSM 1000 000KHz VSW 2.700KHz SMT Auto Bode : (FR) 082617-01 Plane : 4 Full-directivity : 00010E041154000K2 Power setting : 7/0 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2402.00</td><td>102.76</td><td>48.76</td><td>54.00</td><td>95.91</td><td>32.20</td><td>8.09</td><td>33.44</td><td>126</td><td>215 Average</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg	1	2389.43	44.27	-9.73	54.00	37.48	32.15	8.09	33.45	126	215 Average	HORIZONTAL	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg	1	2402.00	102.76	48.76	54.00	95.91	32.20	8.09	33.44	126	215 Average	HORIZONTAL
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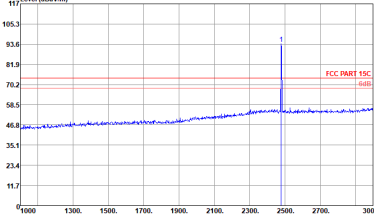


BLE		2.4GHz 2400~2483.5MHz Band Edge @ 3m																															
		BLE CH19 2440MHz - R																															
		Vertical	Fundamental																														
Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Data: 11  Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSM 1000 000MHz VSR 3000 000MHz SMT Auto Model : FR082617-01 Plane : V Polarization : Full-directivity IMEI : 0001001154000042 Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100m</th><th>dB</th><th>dBm/100m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2485.12</td><td>55.87</td><td>-18.13</td><td>74.00</td><td>48.22</td><td>32.86</td><td>8.22</td><td>33.43</td><td>154</td><td>188 Peak VERTICAL</td></tr></table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100m	dB	dBm/100m	dB	dB	dB	dB	cm	deg	1	2485.12	55.87	-18.13	74.00	48.22	32.86	8.22	33.43	154	188 Peak VERTICAL	-
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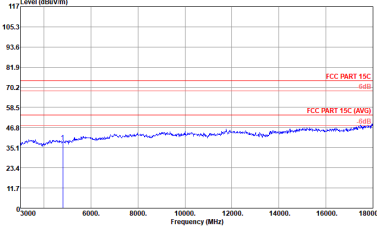
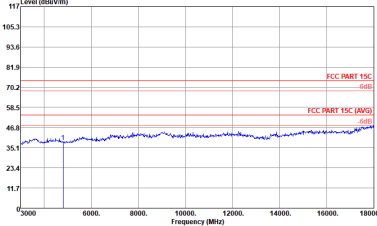


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Peak	 No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030906-KS Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL Project : RRM 1000 0000Hz VSW:3000.0000Hz SMT:Auto Bode : (FR)082617-01 Plane : 0 Full-directivity : 00010041154000042 IMEI : Power setting : 7/0  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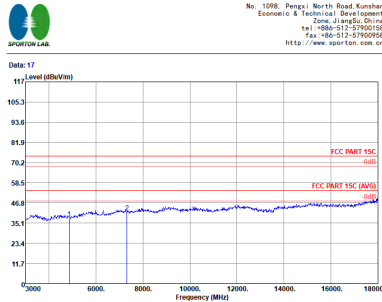
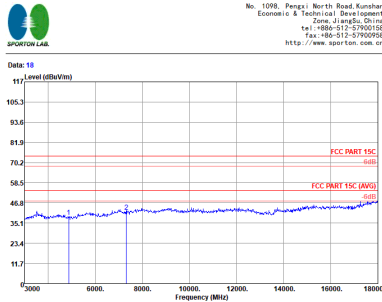


2.4GHz 2400~2483.5MHz

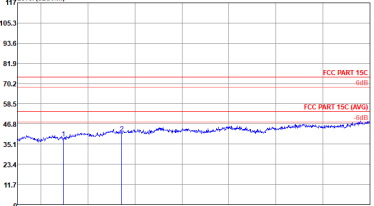
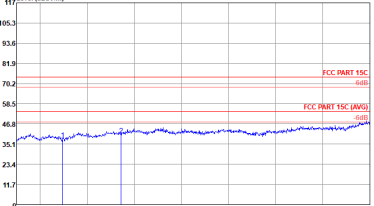
BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																					
	BLE CH00 2402MHz																																																					
	Horizontal						Vertical																																															
Peak Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn DATE: 13  Site : 030906-K3 Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL Project : RSW 1000 000KHz VSW 3000 000KHz SRT Auto Bode : 4 Plane : 1 Full-directivity : 00014041154000042 Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><td>1</td><td>4806.00</td><td>38.53</td><td>-35.47</td><td>74.00</td><td>53.78</td><td>34.96</td><td>11.51</td><td>61.72</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>						Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	1	4806.00	38.53	-35.47	74.00	53.78	34.96	11.51	61.72	300	0 Peak	HORIZONTAL	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn DATE: 14  Site : 030906-K3 Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSW 1000 000KHz VSW 3000 000KHz SRT Auto Bode : 4 Plane : 1 Full-directivity : 00014041154000042 Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><td>1</td><td>4806.00</td><td>38.59</td><td>-35.41</td><td>74.00</td><td>53.96</td><td>34.84</td><td>11.51</td><td>61.72</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr></table>						Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	1	4806.00	38.59	-35.41	74.00	53.96	34.84	11.51	61.72	300	360 Peak	VERTICAL
	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas																																													
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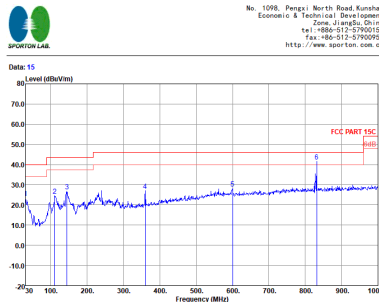
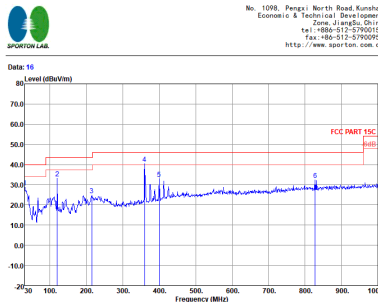
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																									
	BLE CH19 2440MHZ																																																																																									
	Horizontal	Vertical																																																																																								
Peak Avg.	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030804-K5 Condition : FCC PART 15C 3m 3117 SN 70957 HORIZONTAL Project : RBW 1000 000KHz VBW 3000 000KHz SMT Auto Bode : FREQ030417-01 Plane : 5 Full-directivity : 03010241154000042 IME1 : 03010241154000042 Power setting : 7/0 <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>4878.00</td><td>37.77</td><td>-36.23</td><td>74.00</td><td>52.84</td><td>35.04</td><td>11.60</td><td>61.71</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7320.00</td><td>41.44</td><td>-32.56</td><td>74.00</td><td>51.79</td><td>36.86</td><td>14.69</td><td>61.90</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		Freq	Level	Limit	Line	Level Factor	Loss Factor		cn	deg	1	4878.00	37.77	-36.23	74.00	52.84	35.04	11.60	61.71	300	0 Peak	HORIZONTAL	2	7320.00	41.44	-32.56	74.00	51.79	36.86	14.69	61.90	300	0 Peak	HORIZONTAL	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030804-K5 Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL Project : RBW 1000 000KHz VBW 3000 000KHz SMT Auto Bode : FREQ030417-01 Plane : 1 Full-directivity : 03010241154000042 IME1 : 03010241154000042 Power setting : 7/0 <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>4878.00</td><td>38.82</td><td>-35.18</td><td>74.00</td><td>54.10</td><td>34.83</td><td>11.60</td><td>61.71</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7320.00</td><td>41.66</td><td>-32.34</td><td>74.00</td><td>52.47</td><td>36.40</td><td>14.69</td><td>61.90</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr></table>		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		Freq	Level	Limit	Line	Level Factor	Loss Factor		cn	deg	1	4878.00	38.82	-35.18	74.00	54.10	34.83	11.60	61.71	300	360 Peak	VERTICAL	2	7320.00	41.66	-32.34	74.00	52.47	36.40	14.69	61.90	300	360 Peak	VERTICAL
	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																	
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1	4878.00	37.77	-36.23	74.00	52.84	35.04	11.60	61.71	300	0 Peak	HORIZONTAL																																																																															
2	7320.00	41.44	-32.56	74.00	51.79	36.86	14.69	61.90	300	0 Peak	HORIZONTAL																																																																															
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1	4878.00	38.82	-35.18	74.00	54.10	34.83	11.60	61.71	300	360 Peak	VERTICAL																																																																															
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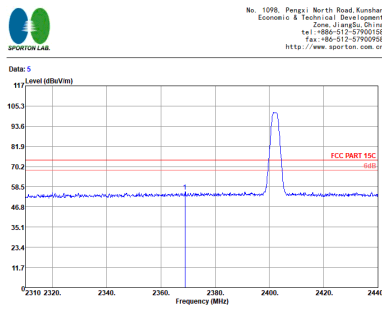
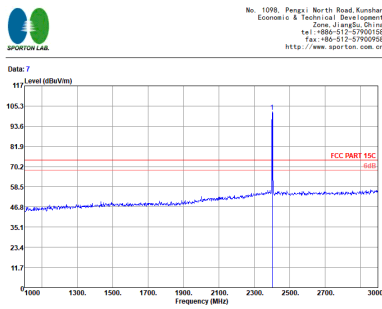
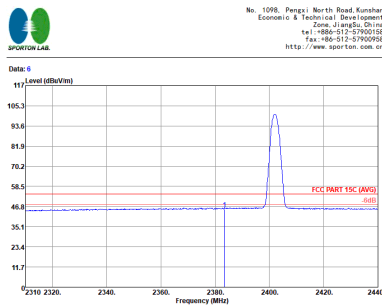
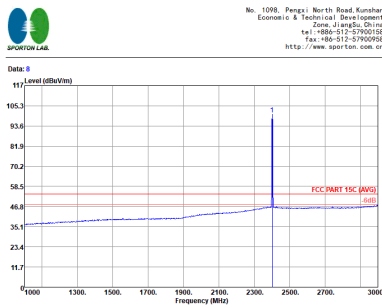
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																
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Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 13  Site : 030804-K5 Condition : FCC PART 15C 3m 3117 SN 70957 HORIZONTAL Project : R88-1000, 00000K, V08-3000, 00000K, SBT-Auto Bode : (FR)082617-01 Plane : 0 Full-directivity 03010541154000042 IMEI : 90616041154000042 Power setting : 7/0 <table><thead><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 4962.00</td><td>38.42</td><td>35.58</td><td>74.00</td><td>53.27</td><td>35.14</td><td>11.71</td><td>61.70</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2 7440.00</td><td>41.51</td><td>32.49</td><td>74.00</td><td>51.64</td><td>36.89</td><td>14.88</td><td>61.90</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></tbody></table>  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 14  Site : 030804-K5 Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL Project : R88-1000, 00000K, V08-3000, 00000K, SBT-Auto Bode : (FR)082617-01 Plane : 0 Full-directivity 03010541154000042 IMEI : 90616041154000042 Power setting : 7/0 <table><thead><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 4962.00</td><td>37.76</td><td>34.24</td><td>74.00</td><td>52.94</td><td>34.81</td><td>11.71</td><td>61.70</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2 7440.00</td><td>40.32</td><td>33.68</td><td>74.00</td><td>50.87</td><td>36.47</td><td>14.88</td><td>61.90</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr></tbody></table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	dBm	dBm	dBm	dBm	dBm	cm	deg			1 4962.00	38.42	35.58	74.00	53.27	35.14	11.71	61.70	300	0 Peak	HORIZONTAL	2 7440.00	41.51	32.49	74.00	51.64	36.89	14.88	61.90	300	0 Peak	HORIZONTAL	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	dBm	dBm	dBm	dBm	dBm	cm	deg			1 4962.00	37.76	34.24	74.00	52.94	34.81	11.71	61.70	300	360 Peak	VERTICAL	2 7440.00	40.32	33.68	74.00	50.87	36.47	14.88	61.90	300	360 Peak	VERTICAL
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Emission below 1GHz
2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz																																																																																																																																																																																																																																
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QP / Peak	 No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 16 Site : 032900-K5 Condition : FCC PART 15C 3m CBL61120 SN23188 HORIZONTAL Project : RRM 100.000KHz VSW:300.000KHz SWT:Auto Model : FRS020317-01 Plane : Y Full-directivity IME1 : G0016E041154000K62 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Peak	HORIZONTAL	Line	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Loss	Factor	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	cm	deg			1	30.00	28.87	-11.13	40.00	35.49	25.00	0.58	32.70	---	---	---	Peak	VERTICAL	2	110.01	32.29	-10.30	40.00	46.42	17.80	1.79	32.86	---	---	---	Peak	VERTICAL	3	174.30	34.40	-18.68	40.00	38.36	17.70	2.37	33.10	---	---	---	Peak	VERTICAL	4	209.80	40.30	-15.64	40.00	48.31	21.65	3.08	32.88	125	---	---	Peak	VERTICAL	5	399.57	33.07	-12.98	40.00	39.64	22.70	2.20	32.80	---	---	---	Peak	VERTICAL	6	827.34	32.24	-13.76	40.00	33.05	27.06	4.48	32.55	---	---	---	Peak	VERTICAL
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1	2383.45	45.21	-8.79	54.00	37.31	33.29	8.06	33.45	181	171 Average	VERTICAL																																																							
IME1	Power setting	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																									
MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dB	cm	deg																																																											
1	2402.00	100.40	46.40	54.00	92.25	33.50	8.09	33.44	181	171 Average	VERTICAL																																																							



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																	
	BLE CH19 2440MHz - R																																	
	Vertical	Fundamental																																
Peak	No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSM 1000 000000 VSR 3000 000000 DRT Auto Model : FR082617-01 Plane : 9 Full-directivity : Full-directivity IMEI : 860104154000042 Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th></tr><tr><td>1</td><td>2440.40</td><td>55.62</td><td>-18.38</td><td>74.00</td><td>48.07</td><td>32.73</td><td>8.24</td><td>33.42</td><td>306</td><td>251 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	1	2440.40	55.62	-18.38	74.00	48.07	32.73	8.24	33.42	306	251 Peak	VERTICAL	-
Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas																									
MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz																									
1	2440.40	55.62	-18.38	74.00	48.07	32.73	8.24	33.42	306	251 Peak	VERTICAL																							
Avg.	No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Project : RSM 1000 000000 VSR 3.000000 DRT Auto Model : FR082617-01 Plane : 9 Full-directivity : Full-directivity IMEI : 860104154000042 Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th></tr><tr><td>1</td><td>2487.94</td><td>45.32</td><td>-8.68</td><td>54.00</td><td>37.77</td><td>32.73</td><td>8.24</td><td>33.42</td><td>306</td><td>251 Average</td><td>VERTICAL</td></tr></table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	1	2487.94	45.32	-8.68	54.00	37.77	32.73	8.24	33.42	306	251 Average	VERTICAL	-
Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas																									
MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz																									
1	2487.94	45.32	-8.68	54.00	37.77	32.73	8.24	33.42	306	251 Average	VERTICAL																							



FCC RF Test Report

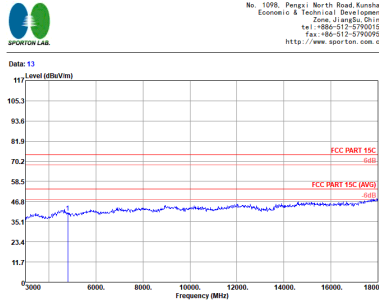
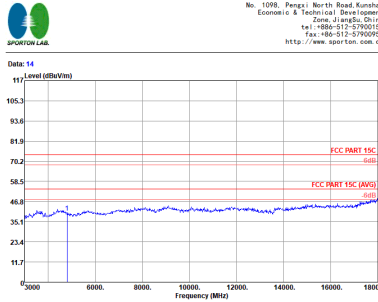
Report No. : FR082617-01B

BLE		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																																																									
		BLE CH39 2480MHz																																																																																																																									
		Vertical	Fundamental																																																																																																																								
Peak	Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSM 1000 0000Hz VSW:3000.0000Hz SMT:Auto Bode : FR082617-01 Plane : Y Full-directivity : 00010041154000042 IMEI : Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>deg</th><th>deg</th></tr><tr><td>1 * 2480.00</td><td>93.82</td><td>19.82</td><td>74.00</td><td>86.17</td><td>32.86</td><td>8.22</td><td>33.43</td><td>299</td><td>250 Peak VERTICAL</td></tr></table> Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSM 1000 0000Hz VSW:3000.0000Hz SMT:Auto Bode : FR082617-01 Plane : Y Full-directivity : 00010041154000042 IMEI : Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>deg</th><th>deg</th></tr><tr><td>1 2480.56</td><td>55.34</td><td>-18.66</td><td>74.00</td><td>47.69</td><td>32.86</td><td>8.22</td><td>33.43</td><td>299</td><td>250 Peak VERTICAL</td></tr></table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	deg	deg	1 * 2480.00	93.82	19.82	74.00	86.17	32.86	8.22	33.43	299	250 Peak VERTICAL	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	deg	deg	1 2480.56	55.34	-18.66	74.00	47.69	32.86	8.22	33.43	299	250 Peak VERTICAL	Avg.	Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Project : RSM 1000 0000Hz VSW:3.0000Hz SMT:Auto Bode : FR082617-01 Plane : Y Full-directivity : 00010041154000042 IMEI : Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>deg</th><th>deg</th></tr><tr><td>1 * 2480.00</td><td>92.35</td><td>38.35</td><td>54.00</td><td>84.70</td><td>32.86</td><td>8.22</td><td>33.43</td><td>299</td><td>250 Average VERTICAL</td></tr></table> Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Project : RSM 1000 0000Hz VSW:3.0000Hz SMT:Auto Bode : FR082617-01 Plane : Y Full-directivity : 00010041154000042 IMEI : Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>deg</th><th>deg</th></tr><tr><td>1 2480.50</td><td>45.06</td><td>-8.94</td><td>54.00</td><td>37.41</td><td>32.86</td><td>8.22</td><td>33.43</td><td>299</td><td>250 Average VERTICAL</td></tr></table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	deg	deg	1 * 2480.00	92.35	38.35	54.00	84.70	32.86	8.22	33.43	299	250 Average VERTICAL	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	deg	deg	1 2480.50	45.06	-8.94	54.00	37.41	32.86	8.22	33.43	299	250 Average VERTICAL
	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																	
MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	deg	deg																																																																																																																		
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1 * 2480.00	92.35	38.35	54.00	84.70	32.86	8.22	33.43	299	250 Average VERTICAL																																																																																																																		
Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																		
MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	deg	deg																																																																																																																		
1 2480.50	45.06	-8.94	54.00	37.41	32.86	8.22	33.43	299	250 Average VERTICAL																																																																																																																		



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																											
	BLE CH00 2402MHz																																											
	Horizontal	Vertical																																										
Peak	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn SPORTON LAB.	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn SPORTON LAB.																																										
Avg.	Site : 030906-K3 Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL Project : RSW 1000 000KHz VSW 3000 000KHz SRT Auto Bode : FR082617-01 Plane : 7 Full-directivity : 68014041154000042 Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><td>1</td><td>4804.00</td><td>40.36</td><td>-33.64</td><td>74.00</td><td>55.61</td><td>34.96</td><td>11.51</td><td>61.72</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	1	4804.00	40.36	-33.64	74.00	55.61	34.96	11.51	61.72	300	0 Peak	HORIZONTAL	Site : 030906-K3 Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSW 1000 000KHz VSW 3000 000KHz SRT Auto Bode : FR082617-01 Plane : 7 Full-directivity : 68014041154000042 Power setting : 7/0 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><td>1</td><td>4804.00</td><td>40.30</td><td>-33.70</td><td>74.00</td><td>55.67</td><td>34.84</td><td>11.51</td><td>61.72</td><td>300</td><td>300 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	1	4804.00	40.30	-33.70	74.00	55.67	34.84	11.51	61.72	300	300 Peak	VERTICAL
Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas																																				
1	4804.00	40.36	-33.64	74.00	55.61	34.96	11.51	61.72	300	0 Peak	HORIZONTAL																																	
Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas																																				
1	4804.00	40.30	-33.70	74.00	55.67	34.84	11.51	61.72	300	300 Peak	VERTICAL																																	



BLE2.4GHz 2400~2483.5MHz Harmonic @ 3m

BLE CH19 2440MHZ

Horizontal

Vertical

Peak

Avg.

No. 1098, Pengxi North Road, Kunshan
Economic & Technical Development
Zone, Jiangsu, China
Tel: +86-512-57902158
Fax: +86-512-57902958
http://www.spartan.com.cn

Data: 17

Site : 030804-KS
Condition : FCC PART 15C 3m 3117 SN 70957 HORIZONTAL
Project : R08-1000-0000Hz V08-3000-0000Hz SMT Auto
Model : FR082617-01
Plane : 0
Full-directivity : 0308041154000042
Power setting : 770

Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		
MHz	dBm/100Hz	dBm/100Hz	dBm/100Hz	dBm/100Hz	cm	deg				
1 4878.00	39.56	-34.45	74.00	54.62	35.04	11.60	61.71	300	0 Peak	HORIZONTAL
2 7320.00	41.63	-32.37	74.00	51.98	36.86	14.69	61.90	300	0 Peak	HORIZONTAL

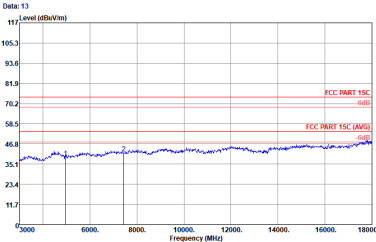
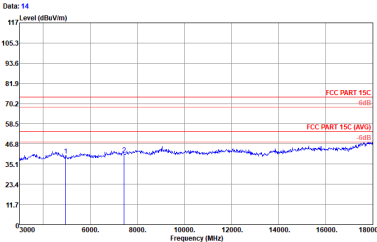
No. 1098, Pengxi North Road, Kunshan
Economic & Technical Development
Zone, Jiangsu, China
Tel: +86-512-57902158
Fax: +86-512-57902958
http://www.spartan.com.cn

Data: 18

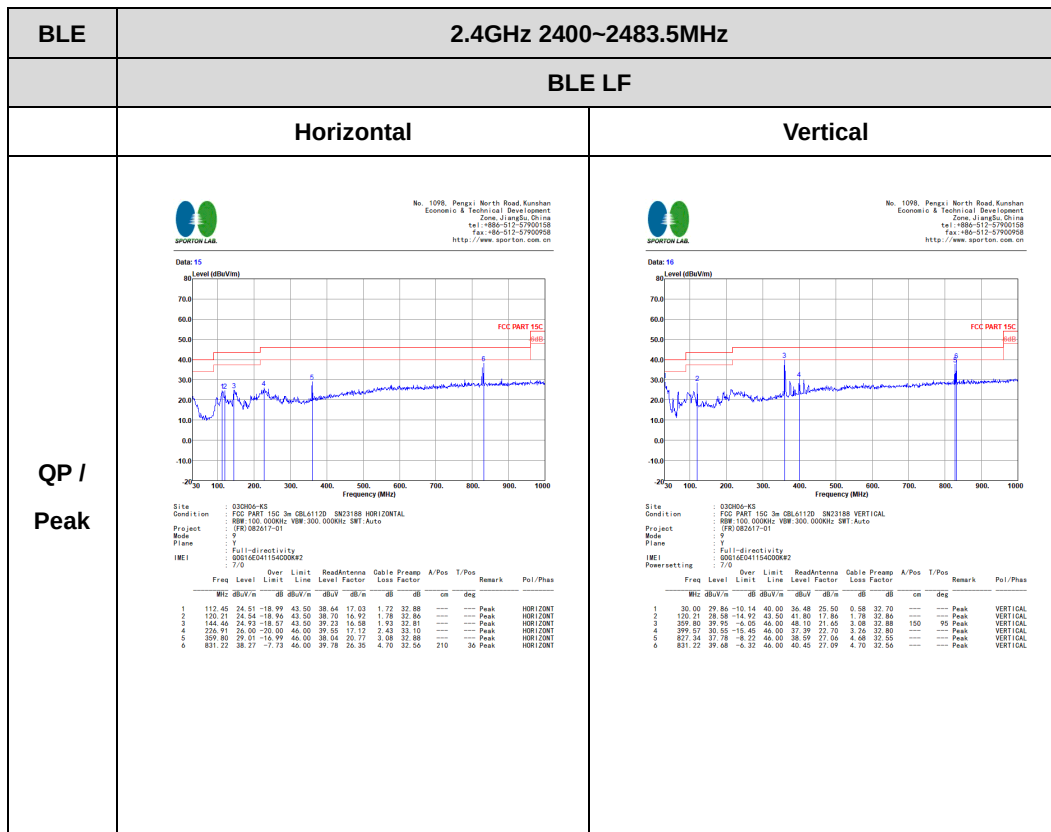
Site : 030804-KS
Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL
Project : R08-1000-0000Hz V08-3000-0000Hz SMT Auto
Model : FR082617-01
Plane : 1
Full-directivity : 0308041154000042
Power setting : 770

Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		
MHz	dBm/100Hz	dBm/100Hz	dBm/100Hz	dBm/100Hz	cm	deg				
1 4878.00	40.36	-33.64	74.00	55.64	34.83	11.60	61.71	300	360 Peak	VERTICAL
2 7320.00	40.63	-33.37	74.00	51.44	36.40	14.69	61.90	300	360 Peak	VERTICAL



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																								
	BLE CH39 2480MHz																																																																								
	Horizontal	Vertical																																																																							
Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 13  Site : 030806-K5 Condition : FCC PART 15C 3m 3117 SN 70957 HORIZONTAL Project : FR082617-01 Bode : 9 Plane : Y Full-directivity 05010541154000042 IMEI : Power setting : 7/0 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm</th><th>dB</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>4962.00</td><td>38.88</td><td>-35.12</td><td>74.00</td><td>53.73</td><td>35.14</td><td>11.71</td><td>61.70</td></tr><tr><td>2</td><td>7440.00</td><td>41.24</td><td>-32.76</td><td>74.00</td><td>51.37</td><td>36.89</td><td>14.88</td><td>61.90</td></tr></tbody></table>  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 14  Site : 030806-K5 Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL Project : FR082617-01 Bode : 9 Plane : Y Full-directivity 05010541154000042 IMEI : Power setting : 7/0 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm</th><th>dB</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>4962.00</td><td>40.02</td><td>-33.98</td><td>74.00</td><td>55.20</td><td>34.81</td><td>11.71</td><td>61.70</td></tr><tr><td>2</td><td>7440.00</td><td>40.74</td><td>-33.26</td><td>74.00</td><td>51.29</td><td>36.47</td><td>14.88</td><td>61.90</td></tr></tbody></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBm/Vm	dB	dBm/Vm	dBm	dB	deg			1	4962.00	38.88	-35.12	74.00	53.73	35.14	11.71	61.70	2	7440.00	41.24	-32.76	74.00	51.37	36.89	14.88	61.90	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBm/Vm	dB	dBm/Vm	dBm	dB	deg			1	4962.00	40.02	-33.98	74.00	55.20	34.81	11.71	61.70	2	7440.00	40.74	-33.26	74.00	51.29	36.47	14.88	61.90
Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																	
MHz	dBm/Vm	dB	dBm/Vm	dBm	dB	deg																																																																			
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Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																	
MHz	dBm/Vm	dB	dBm/Vm	dBm	dB	deg																																																																			
1	4962.00	40.02	-33.98	74.00	55.20	34.81	11.71	61.70																																																																	
2	7440.00	40.74	-33.26	74.00	51.29	36.47	14.88	61.90																																																																	

Emission below 1GHz
2.4GHz BLE (LF)

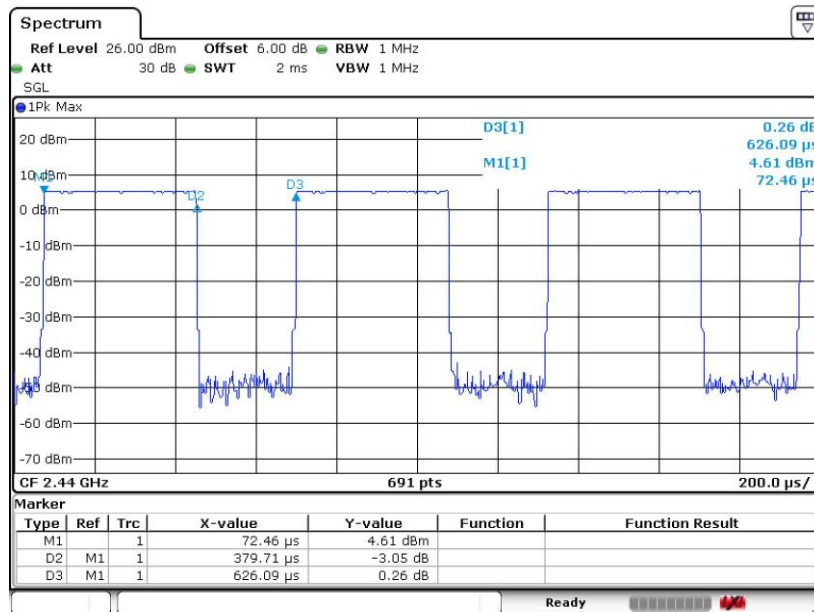


Note: For above testing, we have also tested from 18GHz to 25GHz and found no emissions.

Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	Duty Factor(dB)	1/T(kHz)	VBW Setting
Bluetooth LE 1Mbps	60.65	0.37971	2.17	2.634	2.7KHz
Bluetooth LE 2Mbps	47.10	0.2942	3.27	3.399	3.6KHz

Bluetooth LE 1Mbps



Bluetooth LE 2Mbps

