

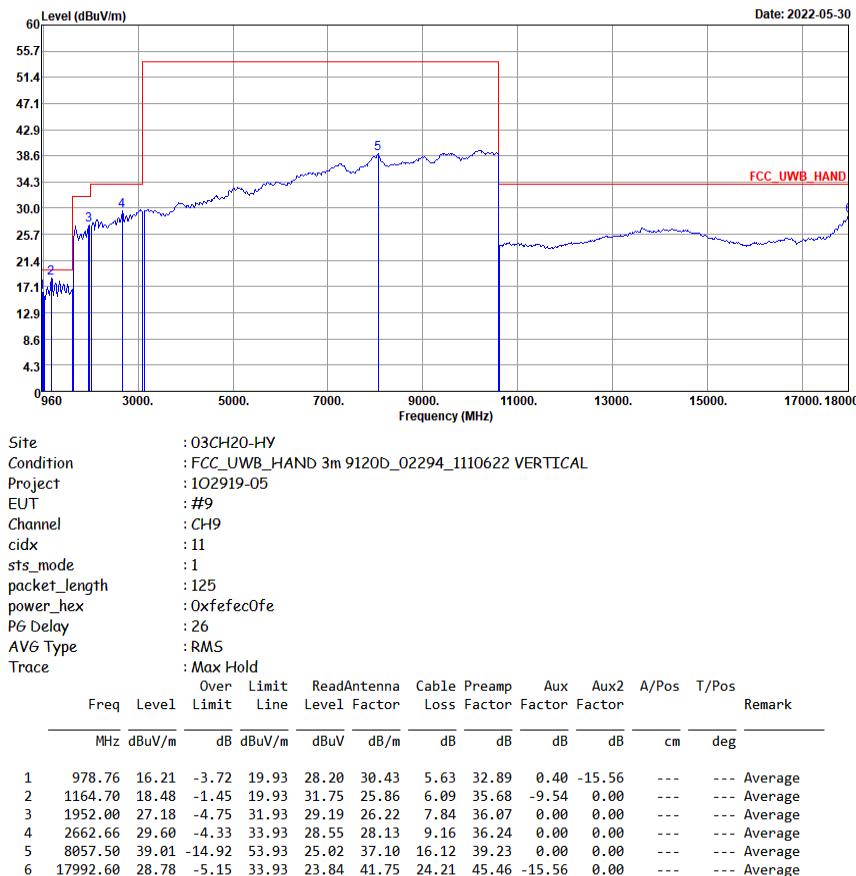


3.5.8 Radiated Emissions (960MHz – 18GHz)

CH09 Radiated Emissions (960MHz – 18GHz)																																																																																																											
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<p>Site : 03CH20-HY Condition : FCC_UWB_HAND 3m 9120D_02294_1110622 HORIZONTAL Project : 102919-05 EUT : #9 Channel : CH9 cidx : 11 sts_mode : 1 packet_length : 125 power_hex : 0xfefec0fe P6 Delay : 26 AVG Type : RMS Trace : Max Hold</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>Aux2</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>976.68</td> <td>16.23</td> <td>-3.70</td> <td>19.93</td> <td>28.15</td> <td>30.51</td> <td>5.63</td> <td>32.90</td> <td>0.40</td> <td>-15.56</td> <td>---</td> <td>Average</td> </tr> <tr> <td>2</td> <td>1159.21</td> <td>17.74</td> <td>-2.19</td> <td>19.93</td> <td>31.05</td> <td>25.84</td> <td>6.07</td> <td>35.68</td> <td>-9.54</td> <td>0.00</td> <td>---</td> <td>Average</td> </tr> <tr> <td>3</td> <td>1950.48</td> <td>26.92</td> <td>-5.01</td> <td>31.93</td> <td>28.96</td> <td>26.20</td> <td>7.83</td> <td>36.07</td> <td>0.00</td> <td>0.00</td> <td>---</td> <td>Average</td> </tr> <tr> <td>4</td> <td>3050.05</td> <td>29.60</td> <td>-4.33</td> <td>33.93</td> <td>26.27</td> <td>29.60</td> <td>9.89</td> <td>36.16</td> <td>0.00</td> <td>0.00</td> <td>---</td> <td>Average</td> </tr> <tr> <td>5</td> <td>7967.50</td> <td>50.79</td> <td>-3.14</td> <td>53.93</td> <td>36.66</td> <td>37.10</td> <td>16.16</td> <td>39.13</td> <td>0.00</td> <td>0.00</td> <td>---</td> <td>Average</td> </tr> <tr> <td>6</td> <td>17977.80</td> <td>28.84</td> <td>-5.09</td> <td>33.93</td> <td>24.01</td> <td>41.64</td> <td>24.20</td> <td>45.45</td> <td>-15.56</td> <td>0.00</td> <td>---</td> <td>Average</td> </tr> </tbody> </table>						Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	Aux	Aux2	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	dB	dB	cm	deg	1	976.68	16.23	-3.70	19.93	28.15	30.51	5.63	32.90	0.40	-15.56	---	Average	2	1159.21	17.74	-2.19	19.93	31.05	25.84	6.07	35.68	-9.54	0.00	---	Average	3	1950.48	26.92	-5.01	31.93	28.96	26.20	7.83	36.07	0.00	0.00	---	Average	4	3050.05	29.60	-4.33	33.93	26.27	29.60	9.89	36.16	0.00	0.00	---	Average	5	7967.50	50.79	-3.14	53.93	36.66	37.10	16.16	39.13	0.00	0.00	---	Average	6	17977.80	28.84	-5.09	33.93	24.01	41.64	24.20	45.45	-15.56	0.00	---	Average
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<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz. Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz. Note 6: #5 is fundamental signal. Note 7: <ul style="list-style-type: none"> Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB) Example: Distance extrapolation factor = $20\log(0.5m/3m) = -15.56$ (dB) Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m) (Note: For test item below 1GHz, Aux = Filter loss; Aux 2 = Distance extrapolation factor) (Note: For test item above 1GHz, Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter) Example: Corrected Reading: 30.51 (dB/m) + 5.63 (dB) + 28.15 (dBuV) - 32.90 (dB) + (-15.16) (dB) = 16.23 (dBuV/m) </p>																																																																																																											



CH 09 Radiated Emissions (960MHz – 18GHz)			
Test Mode	Mode 7: cidx-11_sts-1_packet length-125	Polarization	V
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m)
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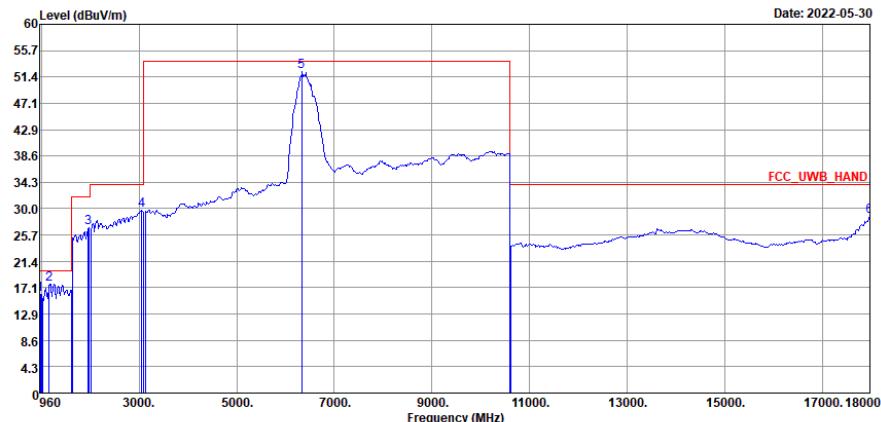
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CH05 Radiated Emissions (960MHz – 18GHz)			
Test Mode	Mode 25: cidx-9_sts-1_packet length-125	Polarization	H
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Site : 03CH20-HY
 Condition : FCC_UWB_HAND 3m 9120D_02294_1110622 HORIZONTAL
 Project : 1O2919-05
 EUT : #9
 Channel : CH5
 cidx : 9
 sts_mode : 1
 packet_length : 125
 power_hex : 0xbfb9cbf
 PG Delay : 26
 AVG Type : RMS
 Trace : Max Hold

Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	Aux	Aux2	A/Pos	T/Pos	Remark	
											MHz	dBuV/m
1	978.52	16.10	-3.83	19.93	28.08	30.44	5.63	32.89	0.40	-15.56	---	---
2	1158.60	17.77	-2.16	19.93	31.09	25.83	6.07	35.68	-9.54	0.00	---	---
3	1953.52	26.97	-4.96	31.93	28.97	26.23	7.84	36.07	0.00	0.00	---	---
4	3054.49	29.71	-4.22	33.93	26.39	29.59	9.89	36.16	0.00	0.00	---	---
5	6332.50	52.28	-1.65	53.93	41.25	34.43	14.43	37.83	0.00	0.00	---	---
6	17977.80	28.80	-5.13	33.93	23.97	41.64	24.20	45.45	-15.56	0.00	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m)
 (Note: For test item below 1GHz, Aux = Filter loss; Aux 2 = Distance extrapolation factor)
 (Note: For test item above 1GHz, Aux = Distance extrapolation factor; Aux 2 = 0, which means the measuring units are not connecting to the Filter)



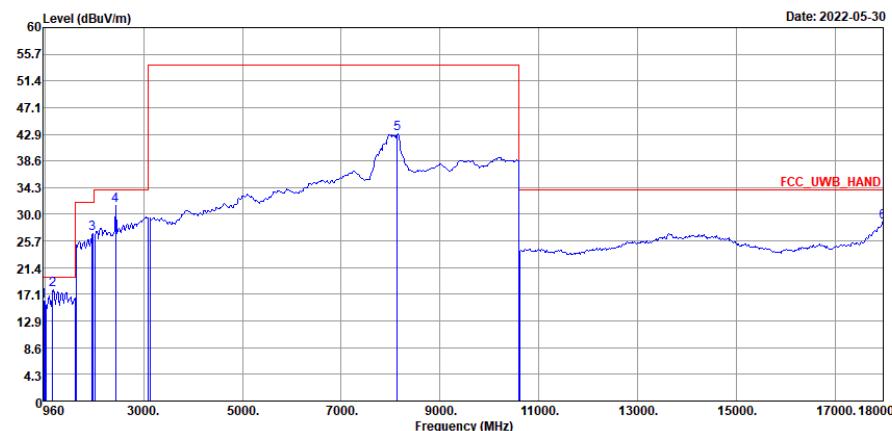
CH05 Radiated Emissions (960MHz – 18GHz)																																																																																																									
Test Mode	Mode 25: cidx-9_sts-1_packet length-125							Polarization	V																																																																																																
Operating Function	Adapter Mode																																																																																																								
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<p>Date: 2022-05-30</p> <p>FCC_UWB_HAND</p> <p>Site : 03CH20-HV Condition : FCC_UWB_HAND 3m 9120D_02294_1110622 VERTICAL Project : 102919-05 EUT : #9 Channel : CH5 cidx : 9 sts_mode : 1 packet_length : 125 power_hex : 0xbfb9cbf PG Delay : 26 AVG Type : RMS Trace : Max Hold</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>Aux2</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>975.36</td> <td>16.08</td> <td>-3.85</td> <td>19.93</td> <td>27.95</td> <td>30.56</td> <td>5.63</td> <td>32.90</td> <td>0.40</td> <td>-15.56</td> <td>---</td> </tr> <tr> <td>2</td> <td>1162.26</td> <td>17.79</td> <td>-2.14</td> <td>19.93</td> <td>31.08</td> <td>25.85</td> <td>6.08</td> <td>35.68</td> <td>-9.54</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>3</td> <td>1958.46</td> <td>27.15</td> <td>-4.78</td> <td>31.93</td> <td>29.10</td> <td>26.27</td> <td>7.85</td> <td>36.07</td> <td>0.00</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>4</td> <td>2661.55</td> <td>30.66</td> <td>-3.27</td> <td>33.93</td> <td>29.62</td> <td>28.12</td> <td>9.16</td> <td>36.24</td> <td>0.00</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>5</td> <td>6430.00</td> <td>45.85</td> <td>-8.08</td> <td>53.93</td> <td>34.36</td> <td>34.72</td> <td>14.55</td> <td>37.78</td> <td>0.00</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>6</td> <td>17985.20</td> <td>28.91</td> <td>-5.02</td> <td>33.93</td> <td>24.03</td> <td>41.70</td> <td>24.20</td> <td>45.46</td> <td>-15.56</td> <td>0.00</td> <td>---</td> </tr> </tbody> </table>										Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	Aux	Aux2	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss Factor	Factor	Factor	cm	deg		1	975.36	16.08	-3.85	19.93	27.95	30.56	5.63	32.90	0.40	-15.56	---	2	1162.26	17.79	-2.14	19.93	31.08	25.85	6.08	35.68	-9.54	0.00	---	3	1958.46	27.15	-4.78	31.93	29.10	26.27	7.85	36.07	0.00	0.00	---	4	2661.55	30.66	-3.27	33.93	29.62	28.12	9.16	36.24	0.00	0.00	---	5	6430.00	45.85	-8.08	53.93	34.36	34.72	14.55	37.78	0.00	0.00	---	6	17985.20	28.91	-5.02	33.93	24.03	41.70	24.20	45.46	-15.56	0.00	---
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CH09 Radiated Emissions (960MHz – 18GHz)																																																																																																								
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<p>Level (dBuV/m)</p> <p>Date: 2022-05-30</p> <p>Frequency (MHz)</p> <p>Site : 03CH20-HY Condition : FCC_UWB_HAND 3m 9120D_02294_1110622 HORIZONTAL Project : 1O2919-05 EUT : #9 Channel : CH9 cidx : 12 sts_mode : 1 packet_length : 125 power_hex : 0xfefec0fe PG Delay : 26</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Over Limit</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>Aux2</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/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>978.40</td> <td>16.11</td> <td>-3.82</td> <td>19.93</td> <td>28.08</td> <td>30.45</td> <td>5.63</td> <td>32.89</td> <td>0.40</td> <td>-15.56</td> <td>---</td> </tr> <tr> <td>2</td> <td>1242.17</td> <td>17.66</td> <td>-2.27</td> <td>19.93</td> <td>30.71</td> <td>25.92</td> <td>6.27</td> <td>35.70</td> <td>-9.54</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>3</td> <td>1958.84</td> <td>26.97</td> <td>-4.96</td> <td>31.93</td> <td>28.92</td> <td>26.27</td> <td>7.85</td> <td>36.07</td> <td>0.00</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>4</td> <td>3047.83</td> <td>29.57</td> <td>-4.36</td> <td>33.93</td> <td>26.25</td> <td>29.59</td> <td>9.88</td> <td>36.15</td> <td>0.00</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>5</td> <td>7967.50</td> <td>48.00</td> <td>-5.93</td> <td>53.93</td> <td>33.87</td> <td>37.10</td> <td>16.16</td> <td>39.13</td> <td>0.00</td> <td>0.00</td> <td>---</td> </tr> <tr> <td>6</td> <td>17970.40</td> <td>28.69</td> <td>-5.24</td> <td>33.93</td> <td>23.92</td> <td>41.59</td> <td>24.19</td> <td>45.45</td> <td>-15.56</td> <td>0.00</td> <td>---</td> </tr> </tbody> </table>											Freq	Over Limit	Limit	ReadAntenna	Cable	Preamp	Aux	Aux2	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	dB	cm	deg	1	978.40	16.11	-3.82	19.93	28.08	30.45	5.63	32.89	0.40	-15.56	---	2	1242.17	17.66	-2.27	19.93	30.71	25.92	6.27	35.70	-9.54	0.00	---	3	1958.84	26.97	-4.96	31.93	28.92	26.27	7.85	36.07	0.00	0.00	---	4	3047.83	29.57	-4.36	33.93	26.25	29.59	9.88	36.15	0.00	0.00	---	5	7967.50	48.00	-5.93	53.93	33.87	37.10	16.16	39.13	0.00	0.00	---	6	17970.40	28.69	-5.24	33.93	23.92	41.59	24.19	45.45	-15.56	0.00	---
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CH 09 Radiated Emissions (960MHz – 18GHz)		
Test Mode	Mode 46: cidx-12_sts-1_packet length-125	Polarization
Operating Function	Adapter Mode	
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.	



Site : 03CH20-HY
 Condition : FCC_UWB_HAND 3m 9120D_02294_1110622 VERTICAL
 Project : 102919-05
 EUT : #9
 Channel : CH9
 cidx : 12
 sts_mode : 1
 packet_length : 125
 power_hex : 0xfefec0fe
 PG Delay : 26
 AVG Type : RMS
 Trace : Max Hold

Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Aux	Aux2	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	Line	Level	Factor	Loss	Factor	Factor	
1	972.76	16.08	-3.85	19.93	27.92	30.61	5.63	32.91	0.39	-15.56	---	Average
2	1157.99	17.81	-2.12	19.93	31.13	25.83	6.07	35.68	-9.54	0.00	---	Average
3	1953.52	26.87	-5.06	31.93	28.87	26.23	7.84	36.07	0.00	0.00	---	Average
4	2428.45	31.41	-2.52	33.93	31.57	27.41	8.72	36.29	0.00	0.00	---	Average
5	8140.00	43.02	-10.91	53.93	29.25	37.10	16.00	39.33	0.00	0.00	---	Average
6	17970.40	28.82	-5.11	33.93	24.05	41.59	24.19	45.45	-15.56	0.00	---	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

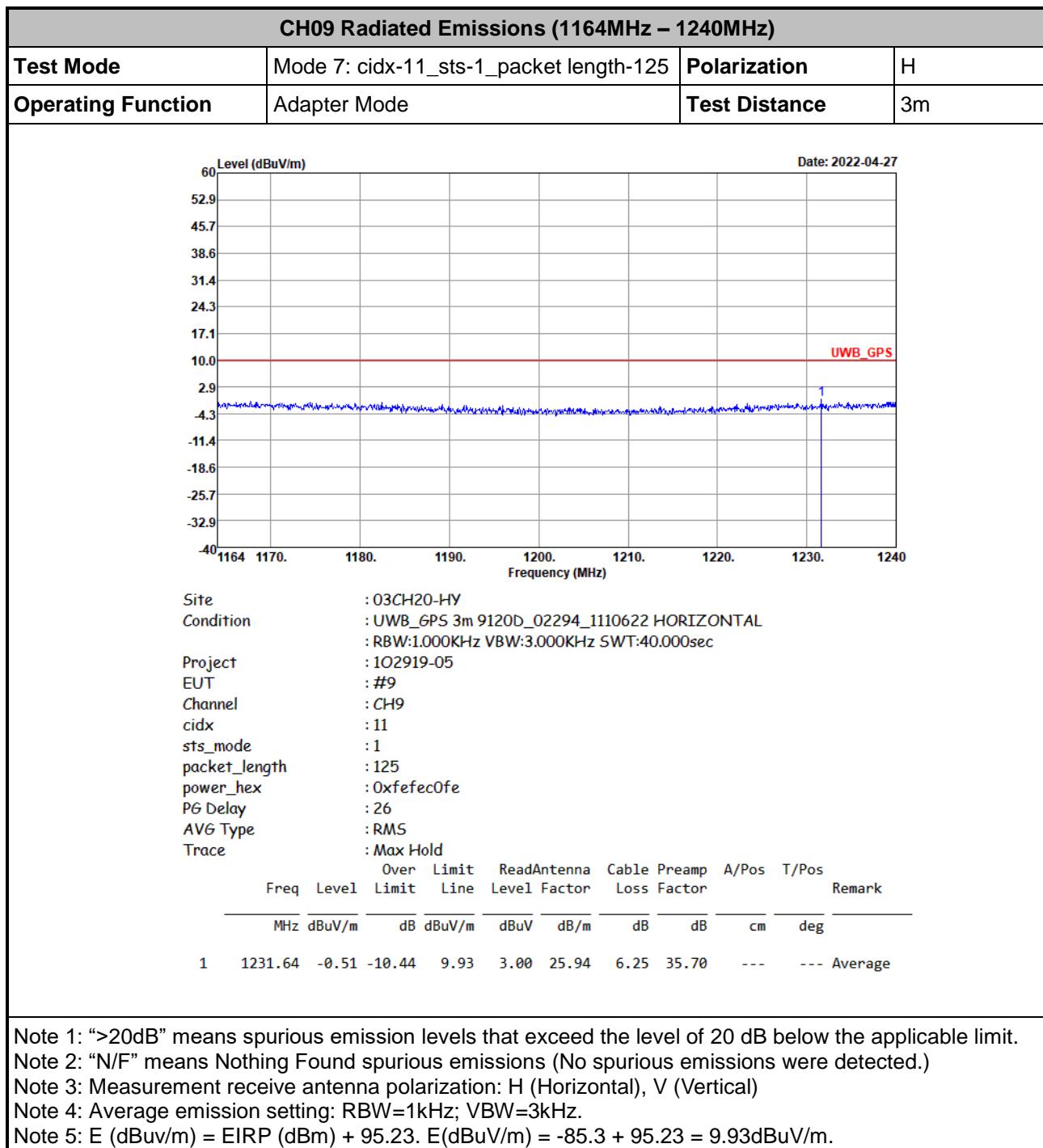
Note 6: #5 is fundamental signal.

Note 7:

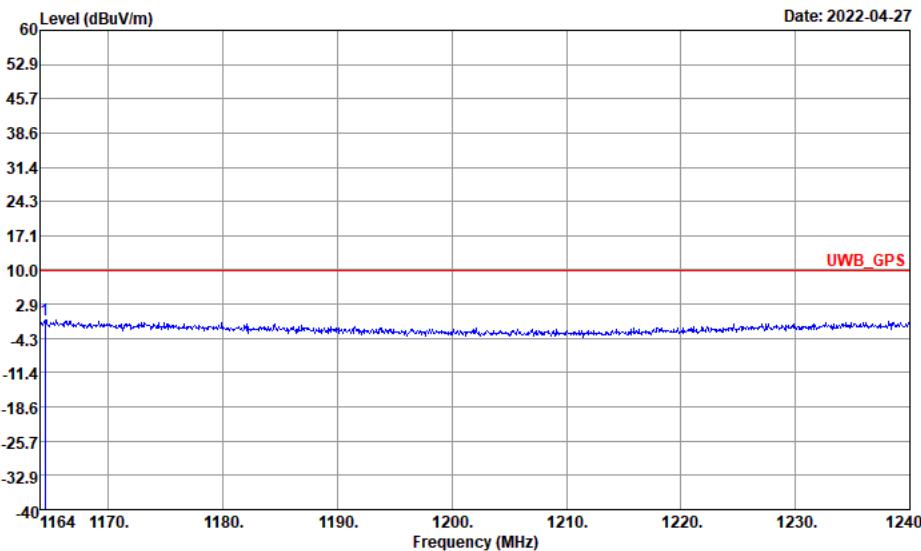
- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m)
 - (Note: For test item below 1GHz, Aux = Filter loss; Aux 2 = Distance extrapolation factor)
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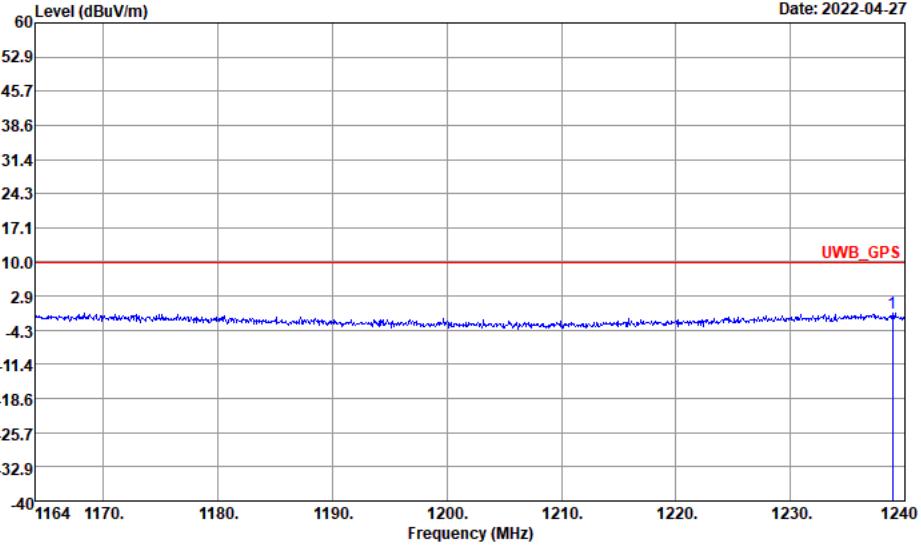
3.5.9 Radiated Emissions (1164MHz – 1240MHz)



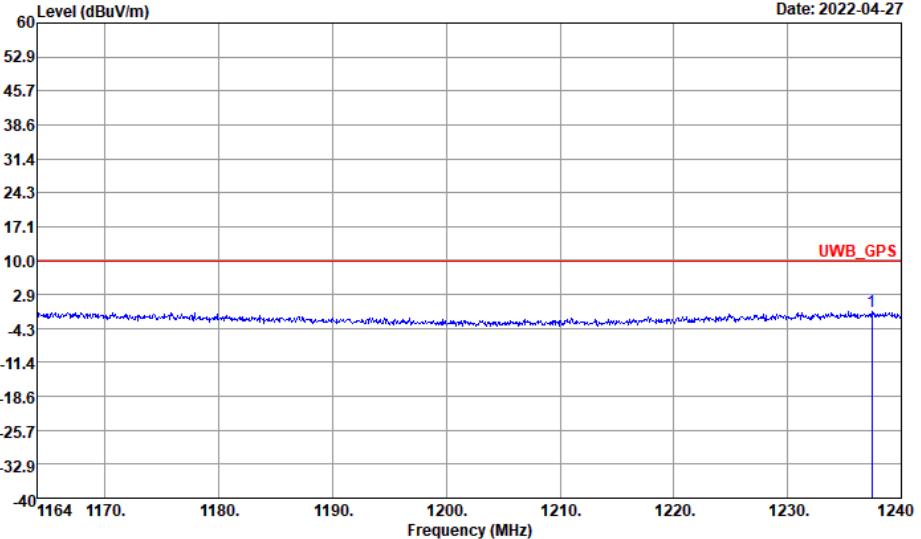


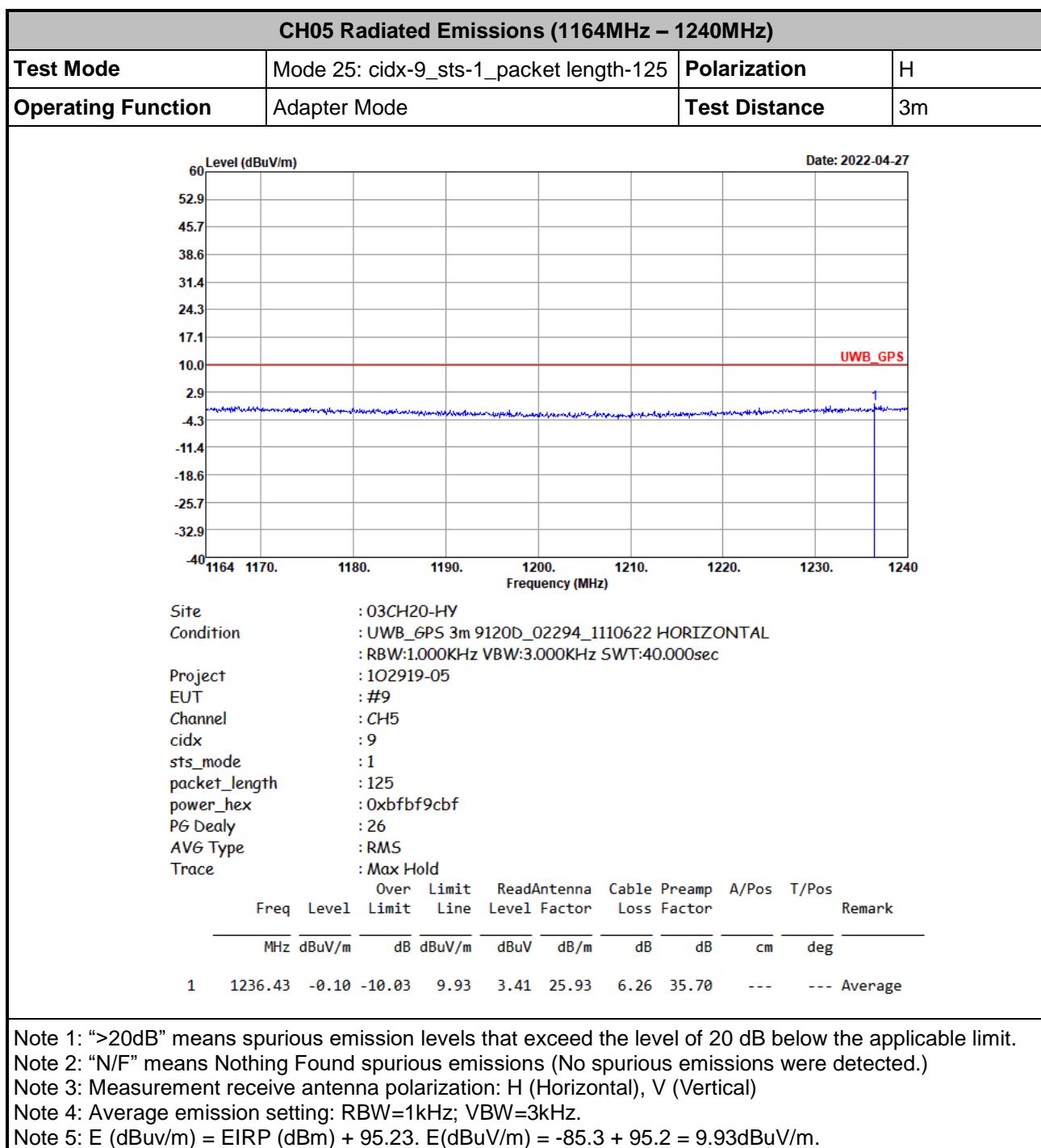
CH09 Radiated Emissions (1164MHz – 1240MHz)																																								
Test Mode	Mode 7: cidx-11_sts-1_packet length-125				Polarization	V																																		
Operating Function	Adapter Mode				Test Distance	3m																																		
										Date: 2022-04-27																														
<p>Site : 03CH20-HY Condition : UWB_GPS 3m 9120D_02294_1110622 VERTICAL : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec Project : 1O2919-05 EUT : #9 Channel : CH9 cidx : 11 sts_mode : 1 packet_length : 125 power_hex : 0xfefec0fe PG Delay : 26 AVG Type : RMS Trace : Max Hold</p> <table><thead><tr><th>Freq</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>1164.46</td><td>-0.31</td><td>-10.24</td><td>9.93</td><td>3.42</td><td>25.86</td><td>6.09</td><td>35.68</td><td>---</td><td>--- Average</td></tr></tbody></table>											Freq	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	1164.46	-0.31	-10.24	9.93	3.42	25.86	6.09	35.68	---	--- Average
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CH05 Radiated Emissions (1164MHz – 1240MHz)																																															
Test Mode	Mode 13: cidx-9_sts-1_packet length-125			Polarization	H																																										
Operating Function	Adapter Mode			Test Distance	3m																																										
									Date: 2022-04-27																																						
<p>UWB_GPS</p> <p>Site : 03CH20-HY Condition : UWB_GPS 3m 9120D_02294_1110622 HORIZONTAL : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec Project : 1O2919-05 EUT : #9 Channel : CH5 cidx : 9 sts_mode : 1 packet_length : 125 power_hex : 0x4f4f444f PG Dealy : 20 AVG Type : RMS Trace : Max Hold</p> <table><thead><tr><th>Freq</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna Line</th><th>Cable Factor</th><th>Preamp Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>1238.94</td><td>-0.77</td><td>-10.70</td><td>9.93</td><td>2.74</td><td>25.92</td><td>6.27</td><td>35.70</td><td>---</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Average</td></tr></tbody></table>									Freq	Over Limit	Limit	ReadAntenna Line	Cable Factor	Preamp Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	1238.94	-0.77	-10.70	9.93	2.74	25.92	6.27	35.70	---										Average
Freq	Over Limit	Limit	ReadAntenna Line	Cable Factor	Preamp Factor	A/Pos	T/Pos	Remark																																							
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1	1238.94	-0.77	-10.70	9.93	2.74	25.92	6.27	35.70	---																																						
									Average																																						
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: Average emission setting: RBW=1kHz; VBW=3kHz. Note 5: E (dBuV/m) = EIRP (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.2 = 9.93dBuV/m.</p>																																															

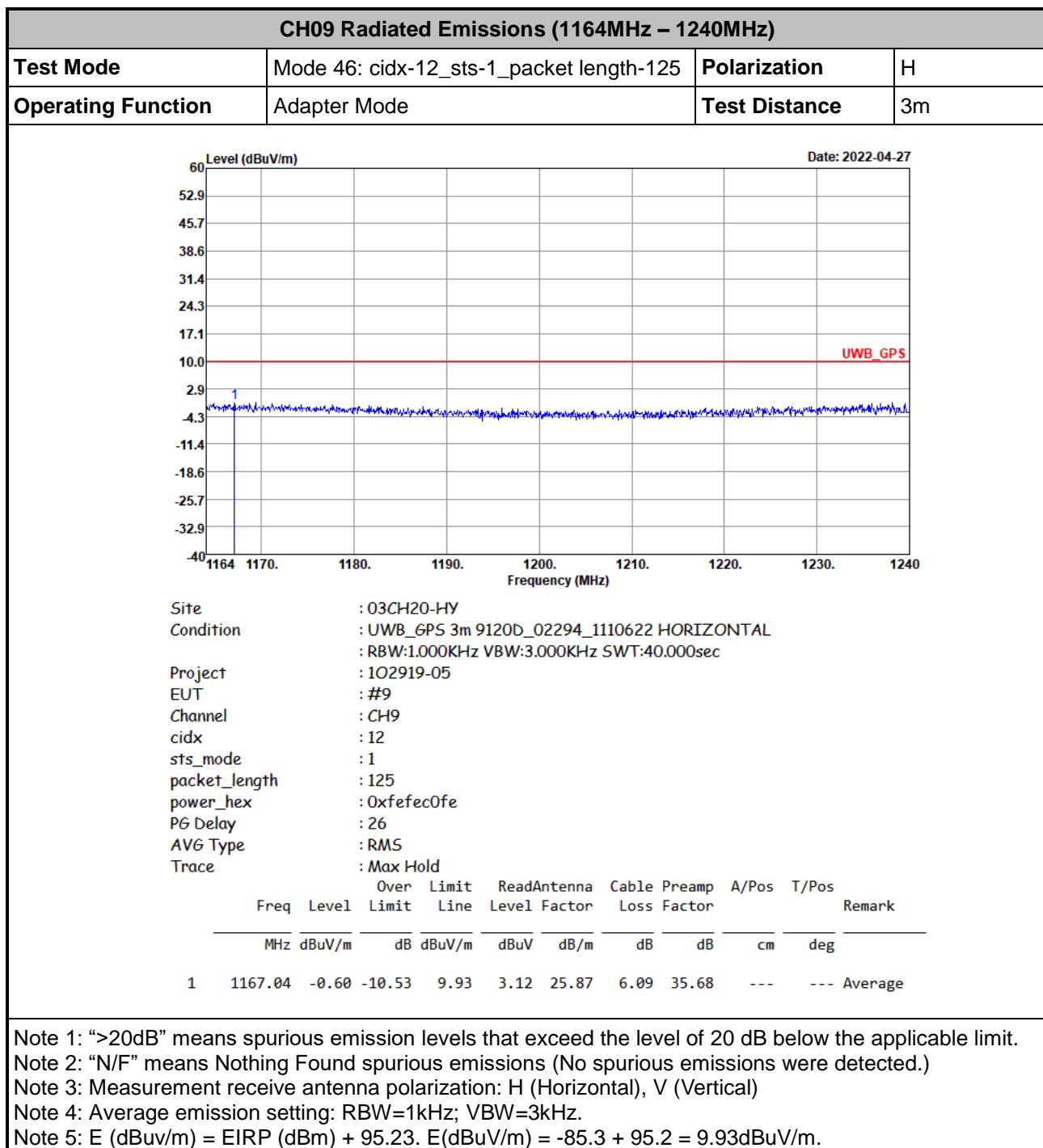


CH05 Radiated Emissions (1164MHz – 1240MHz)																																							
Test Mode	Mode 13: cidx-9_sts-1_packet length-125			Polarization	V																																		
Operating Function	Adapter Mode			Test Distance	3m																																		
									Date: 2022-04-27																														
<p>Site : 03CH20-HY Condition : UWB_GPS 3m 9120D_02294_1110622 VERTICAL : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec</p> <p>Project : 1O2919-05 EUT : #9 Channel : CH5 cidx : 9 sts_mode : 1 packet_length : 125 power_hex : 0x4f4f444f PG Dealy : 20 AVG Type : RMS Trace : Max Hold</p> <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna Line</th><th>Cable Factor</th><th>Preamp Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>1237.42</td><td>-0.77</td><td>-10.70</td><td>9.93</td><td>2.74</td><td>25.93</td><td>6.26</td><td>35.70</td><td>--- Average</td></tr></tbody></table>										Freq	Level	Over Limit	Limit	ReadAntenna Line	Cable Factor	Preamp Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	1237.42	-0.77	-10.70	9.93	2.74	25.93	6.26	35.70	--- Average
Freq	Level	Over Limit	Limit	ReadAntenna Line	Cable Factor	Preamp Factor	A/Pos	T/Pos	Remark																														
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																														
1	1237.42	-0.77	-10.70	9.93	2.74	25.93	6.26	35.70	--- Average																														
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: Average emission setting: RBW=1kHz; VBW=3kHz. Note 5: E (dBuV/m) = EIRP (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.</p>																																							

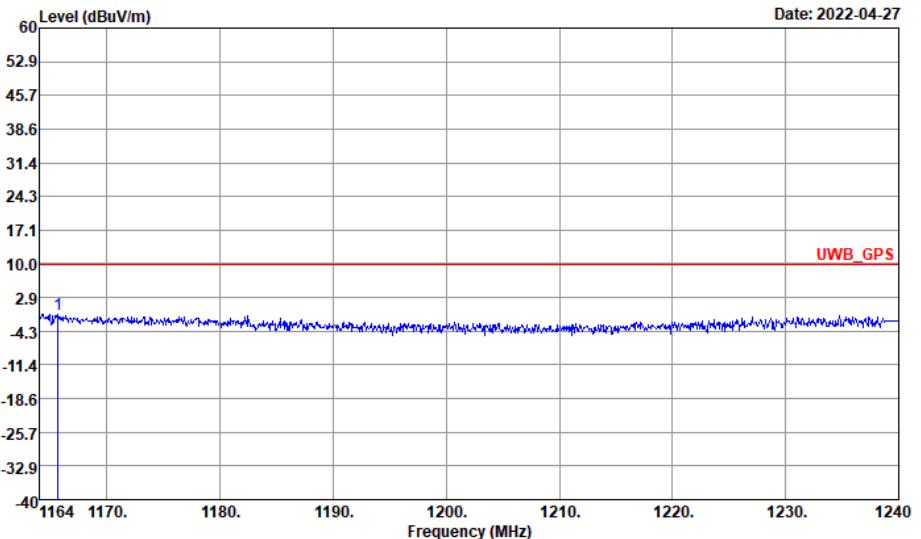




CH05 Radiated Emissions (1164MHz – 1240MHz)																																																
Test Mode	Mode 25: cidx-9_sts-1_packet length-125			Polarization	V																																											
Operating Function	Adapter Mode			Test Distance	3m																																											
									Date: 2022-04-27																																							
<p>Site : 03CH20-HY Condition : UWB_GPS 3m 9120D_02294_1110622 VERTICAL : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec</p> <p>Project : 1O2919-05 EUT : #9 Channel : CH5 cidx : 9 sts_mode : 1 packet_length : 125 power_hex : 0xbfb9cbf PG Dealy : 26 AVG Type : RMS Trace : Max Hold</p> <table><thead><tr><th>Freq</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>1234.53</td><td>-0.96</td><td>-10.89</td><td>9.93</td><td>2.55</td><td>25.93</td><td>6.26</td><td>35.70</td><td>---</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Average</td></tr></tbody></table>										Freq	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	1234.53	-0.96	-10.89	9.93	2.55	25.93	6.26	35.70	---										Average
Freq	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																								
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																							
1	1234.53	-0.96	-10.89	9.93	2.55	25.93	6.26	35.70	---																																							
									Average																																							
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: Average emission setting: RBW=1kHz; VBW=3kHz. Note 5: E (dBuV/m) = EIRP (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.</p>																																																





CH09 Radiated Emissions (1164MHz – 1240MHz)																																							
Test Mode	Mode 46: cidx-12_sts-1_packet length-125			Polarization	V																																		
Operating Function	Adapter Mode			Test Distance	3m																																		
																																							
Date: 2022-04-27																																							
<p>Site : 03CH20-HY Condition : UWB_GPS 3m 9120D_02294_1110622 VERTICAL : RBW:1.000KHz VBW:3.000KHz SWT:40.000sec</p> <p>Project : 1O2919-05 EUT : #9 Channel : CH9 cidx : 12 sts_mode : 1 packet_length : 125 power_hex : 0xefefec0fe PG Delay : 26 AVG Type : RMS Trace : Max Hold</p> <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna Line</th><th>Cable Factor</th><th>Preamp Loss</th><th>A/Pos Factor</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>1165.67</td><td>-0.73</td><td>-10.66</td><td>9.93</td><td>3.00</td><td>25.86</td><td>6.09</td><td>35.68</td><td>--- Average</td></tr></tbody></table>										Freq	Level	Over Limit	Limit	ReadAntenna Line	Cable Factor	Preamp Loss	A/Pos Factor	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	1165.67	-0.73	-10.66	9.93	3.00	25.86	6.09	35.68	--- Average
Freq	Level	Over Limit	Limit	ReadAntenna Line	Cable Factor	Preamp Loss	A/Pos Factor	T/Pos	Remark																														
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																														
1	1165.67	-0.73	-10.66	9.93	3.00	25.86	6.09	35.68	--- Average																														
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: Average emission setting: RBW=1kHz; VBW=3kHz. Note 5: E (dBuV/m) = EIRP (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.</p>																																							

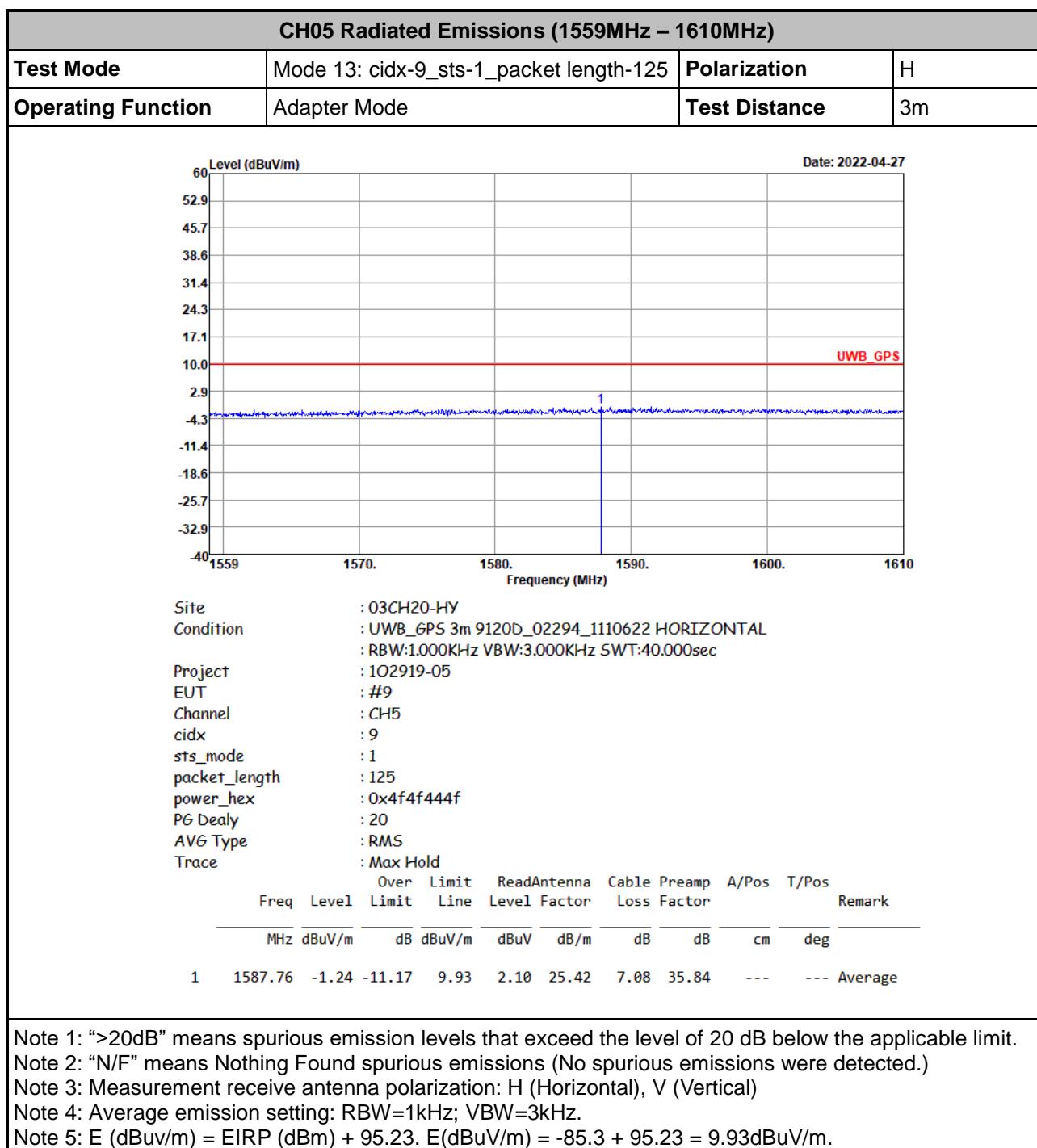


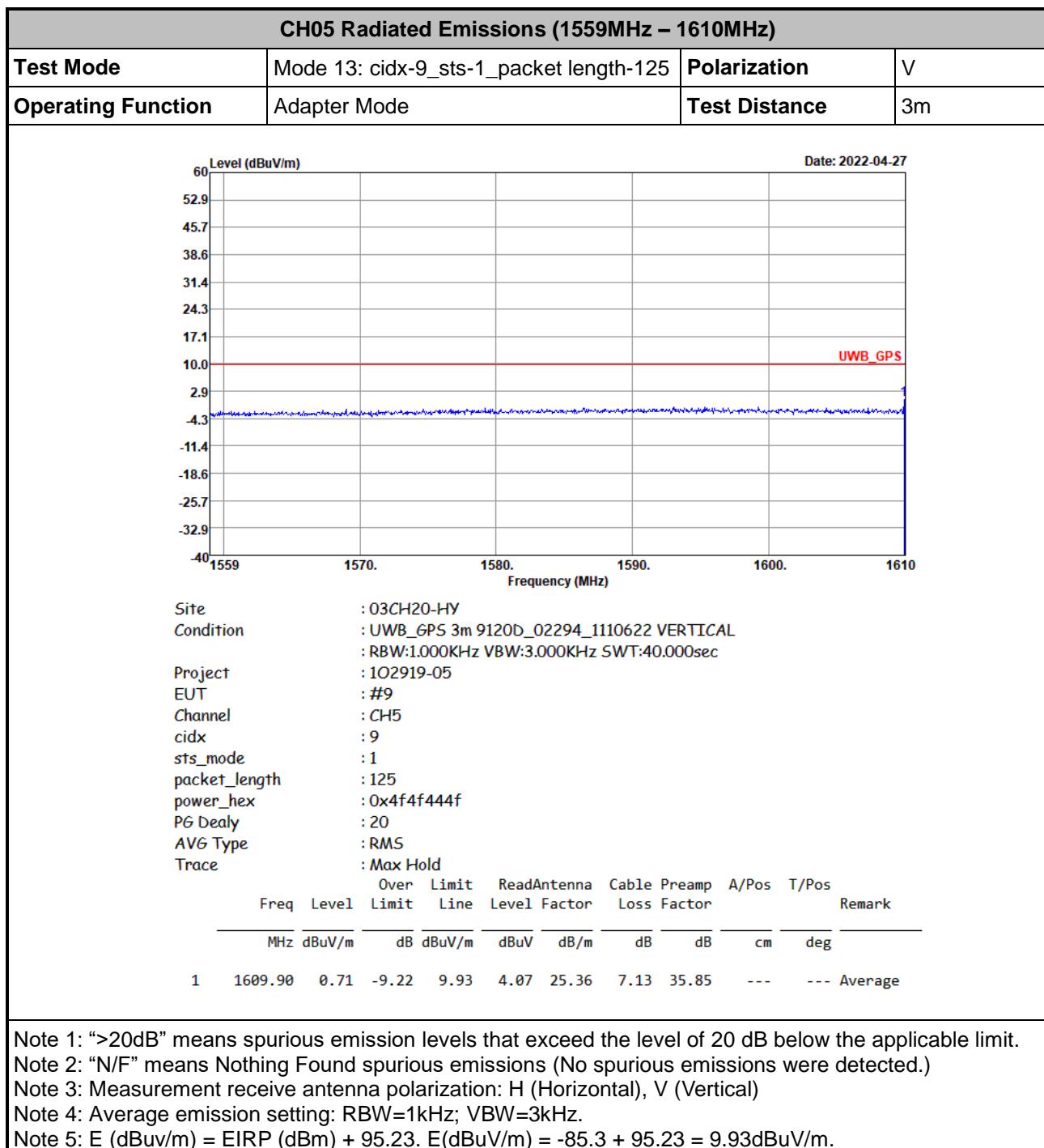
3.5.10 Radiated Emissions (1559MHz – 1610MHz)

CH09 Radiated Emissions (1559MHz – 1610MHz)									
Test Mode	Mode 7: cidx-11_sts-1_packet length-125			Polarization	H				
Operating Function	Adapter Mode			Test Distance	3m				
Level (dBuV/m)									Date: 2022-04-27
1559	1570.	1580.	1590.	1600.	1610				
Frequency (MHz)									
10.0									UWB_GPS
-4.3									1
Site : 03CH20-HY									
Condition : UWB_GPS 3m 9120D_02294_1110622 HORIZONTAL									
Project : 1O2919-05									
EUT : #9									
Channel : CH9									
cidx : 11									
sts_mode : 1									
packet_length : 125									
power_hex : 0xfefec0fe									
PG Delay : 26									
AVG Type : RMS									
Trace : Max Hold									
Freq	Over Level	Limit	ReadAntenna Line	Cable Level	Preamp Factor	A/Pos Loss	T/Pos Factor	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1591.59	-1.64	-11.57	9.93	1.69	25.42	7.09	35.84	--- --- Average
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.									
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)									
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)									
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.									
Note 5: E (dBuV/m) = EIRP (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.									



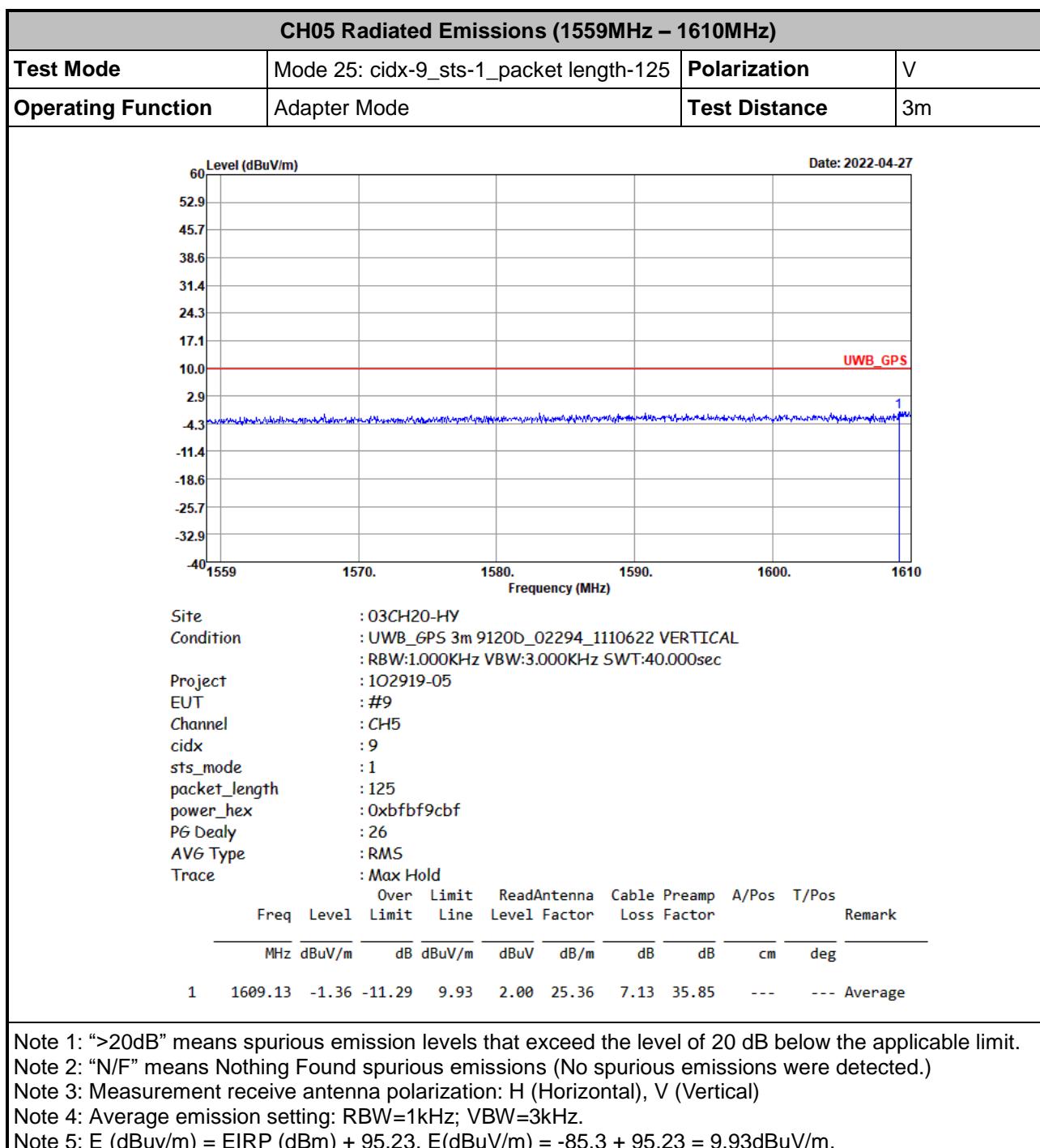
CH09 Radiated Emissions (1559MHz – 1610MHz)											
Test Mode	Mode 7: cidx-11_sts-1_packet length-125			Polarization	V						
Operating Function	Adapter Mode			Test Distance	3m						
Level (dBuV/m)								Date: 2022-04-27			
1	1589.24	-1.33	-11.26	9.93	2.01	25.42	7.08	35.84	---	---	Average
Site	: 03CH20-HY										
Condition	: UWB_GPS 3m 9120D_02294_1110622 VERTICAL										
	: RBW:1.000KHz VBW:3.000KHz SWT:40.000sec										
Project	: 1O2919-05										
EUT	: #9										
Channel	: CH9										
cidx	: 11										
sts_mode	: 1										
packet_length	: 125										
power_hex	: 0xefefec0fe										
PG Delay	: 26										
AVG Type	: RMS										
Trace	: Max Hold										
	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos				
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	1589.24	-1.33	-11.26	9.93	2.01	25.42	7.08	35.84	---	---	Average
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.											
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)											
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)											
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.											
Note 5: E (dBuV/m) = EIRP (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.											

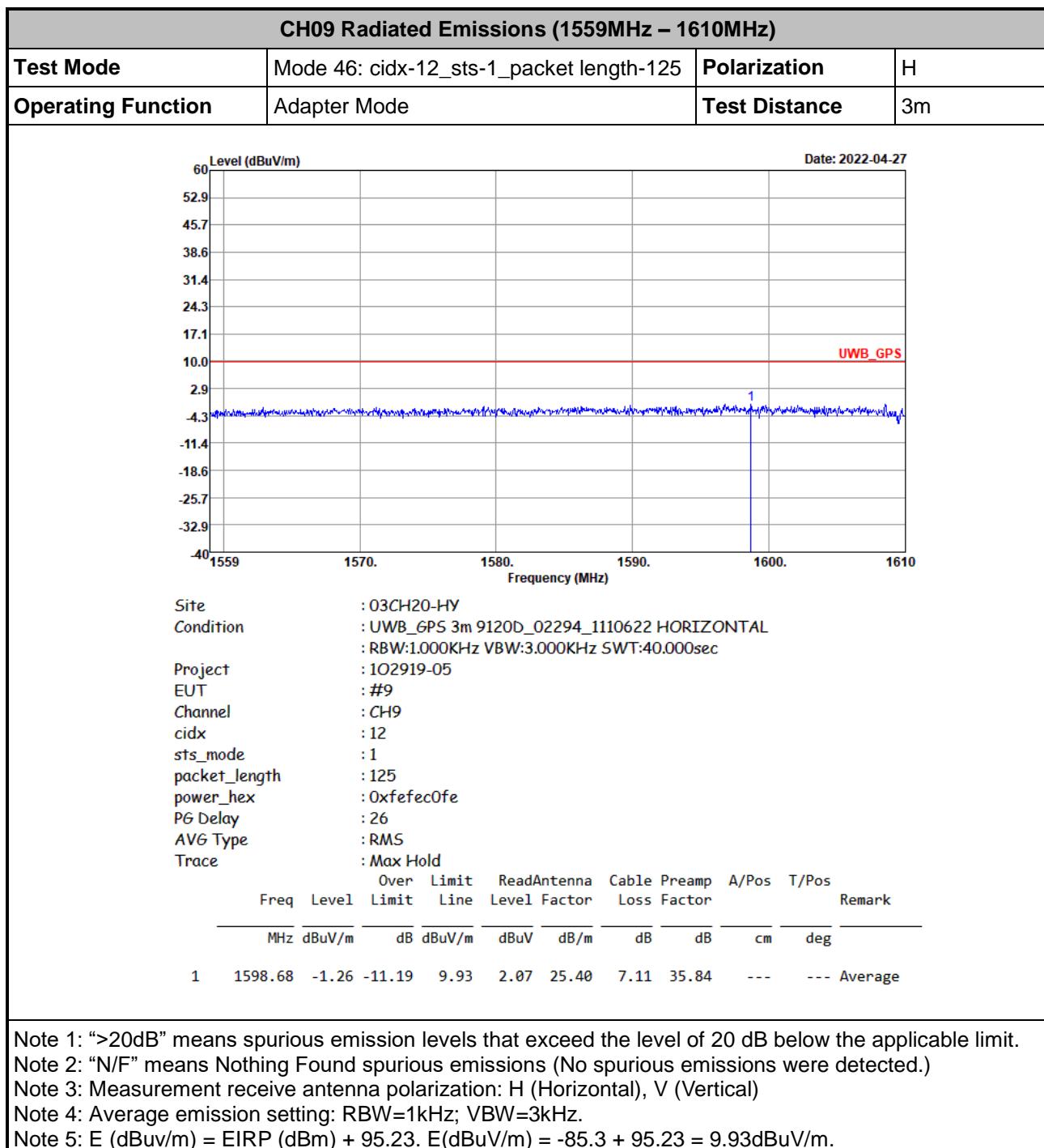


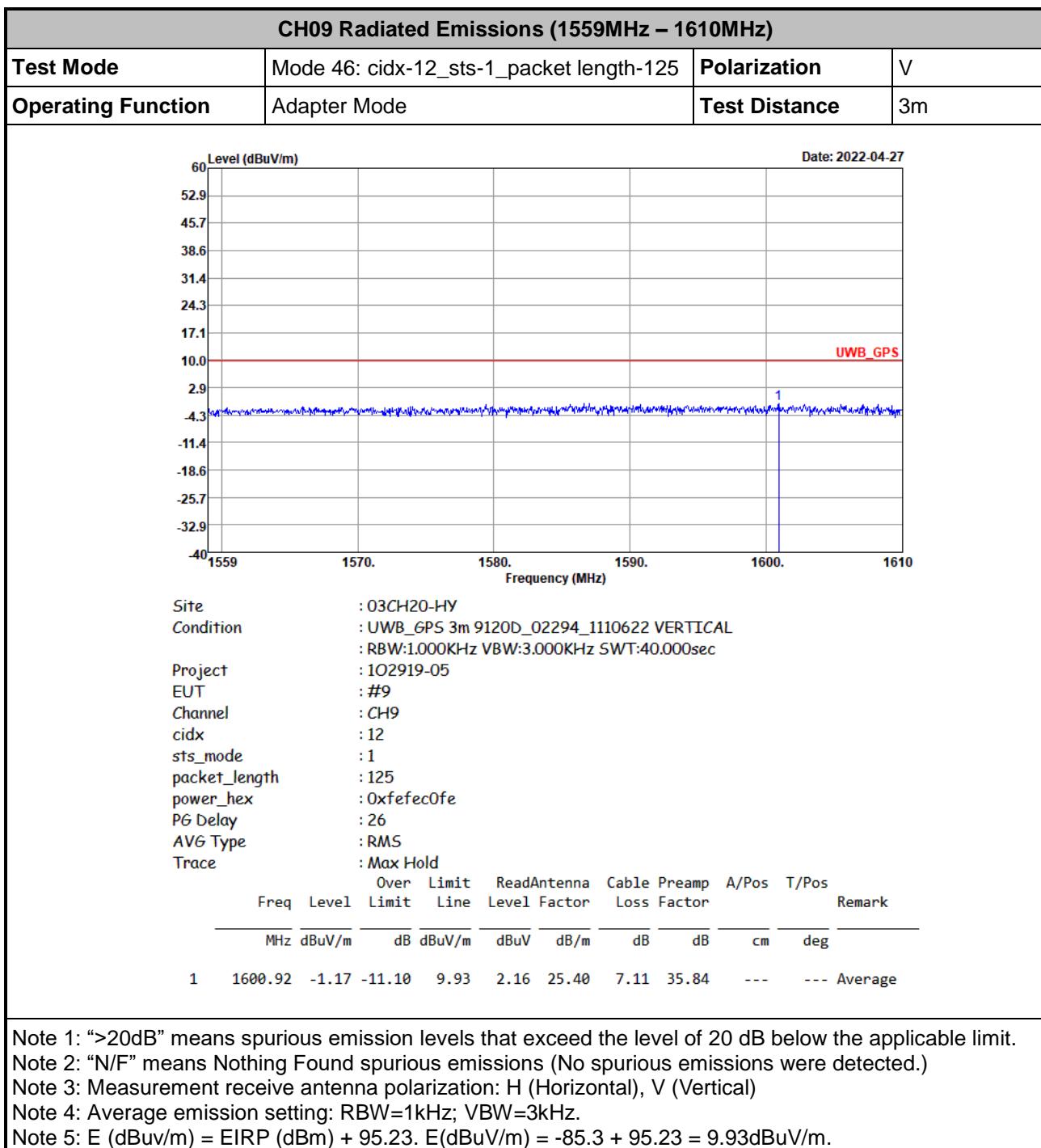




CH05 Radiated Emissions (1559MHz – 1610MHz)									
Test Mode	Mode 25: cidx-9_sts-1_packet length-125			Polarization	H				
Operating Function	Adapter Mode			Test Distance	3m				
Level (dBuV/m)									Date: 2022-04-27
1	1559	1570.	1580.	1590.	1600.	1610			
Site	: 03CH20-HY								
Condition	: UWB_GPS 3m 9120D_02294_1110622 HORIZONTAL								
Project	: RBW:1.000KHz VBW:3.000KHz SWT:40.000sec								
EUT	: #9								
Channel	: CH5								
cidx	: 9								
sts_mode	: 1								
packet_length	: 125								
power_hex	: 0xbfb9cbf								
PG Dealy	: 26								
AVG Type	: RMS								
Trace	: Max Hold								
Over Limit ReadAntenna Cable Preamp A/Pos T/Pos									
Freq		Level	Limit	Line	Level	Factor	Cable	Preamp	A/Pos
MHz		dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm
1		1609.49	-0.86	-10.79	9.93	2.50	25.36	7.13	35.85
								---	---
									Average
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.									
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)									
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)									
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.									
Note 5: E (dBuV/m) = EIRP (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.									

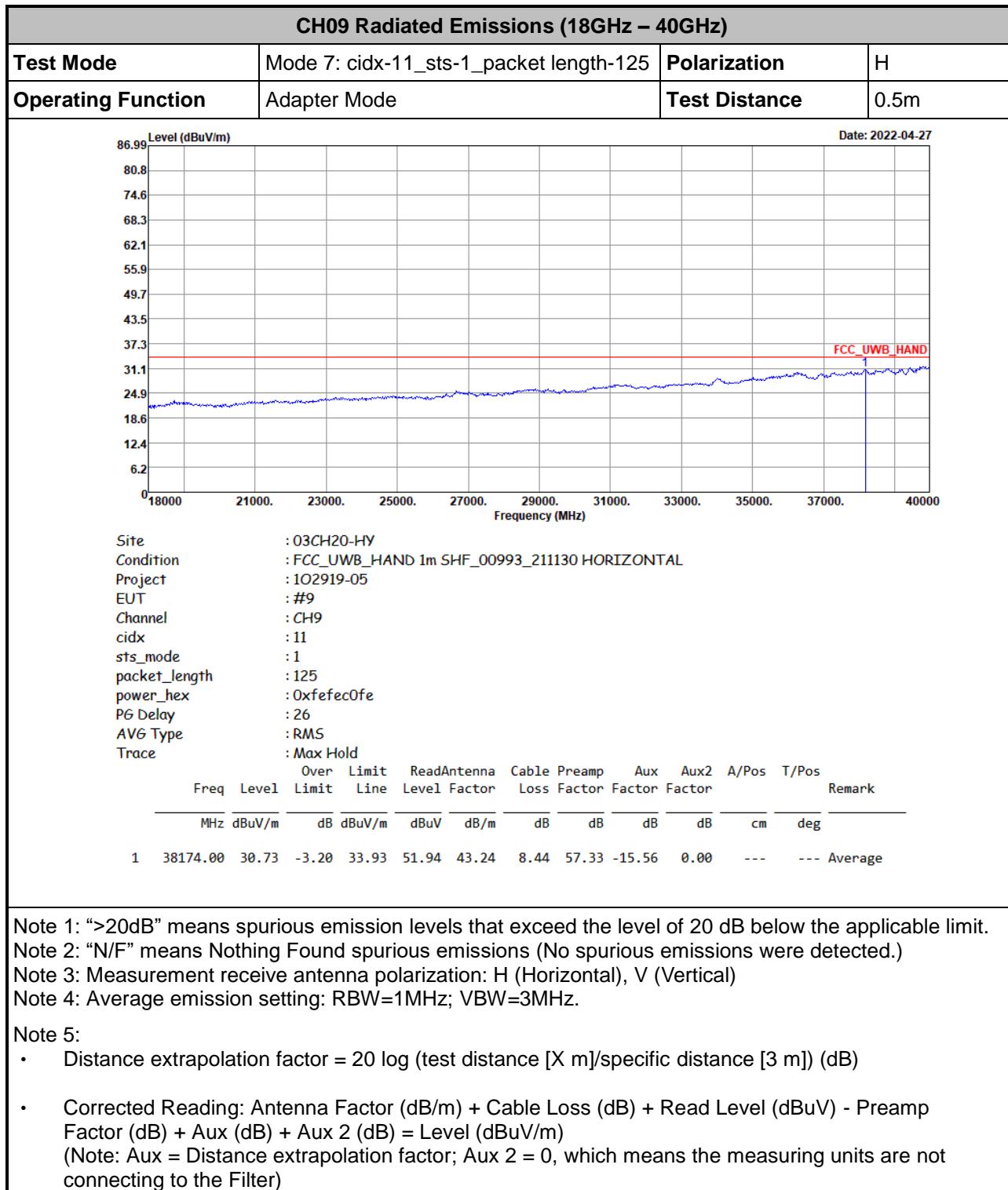


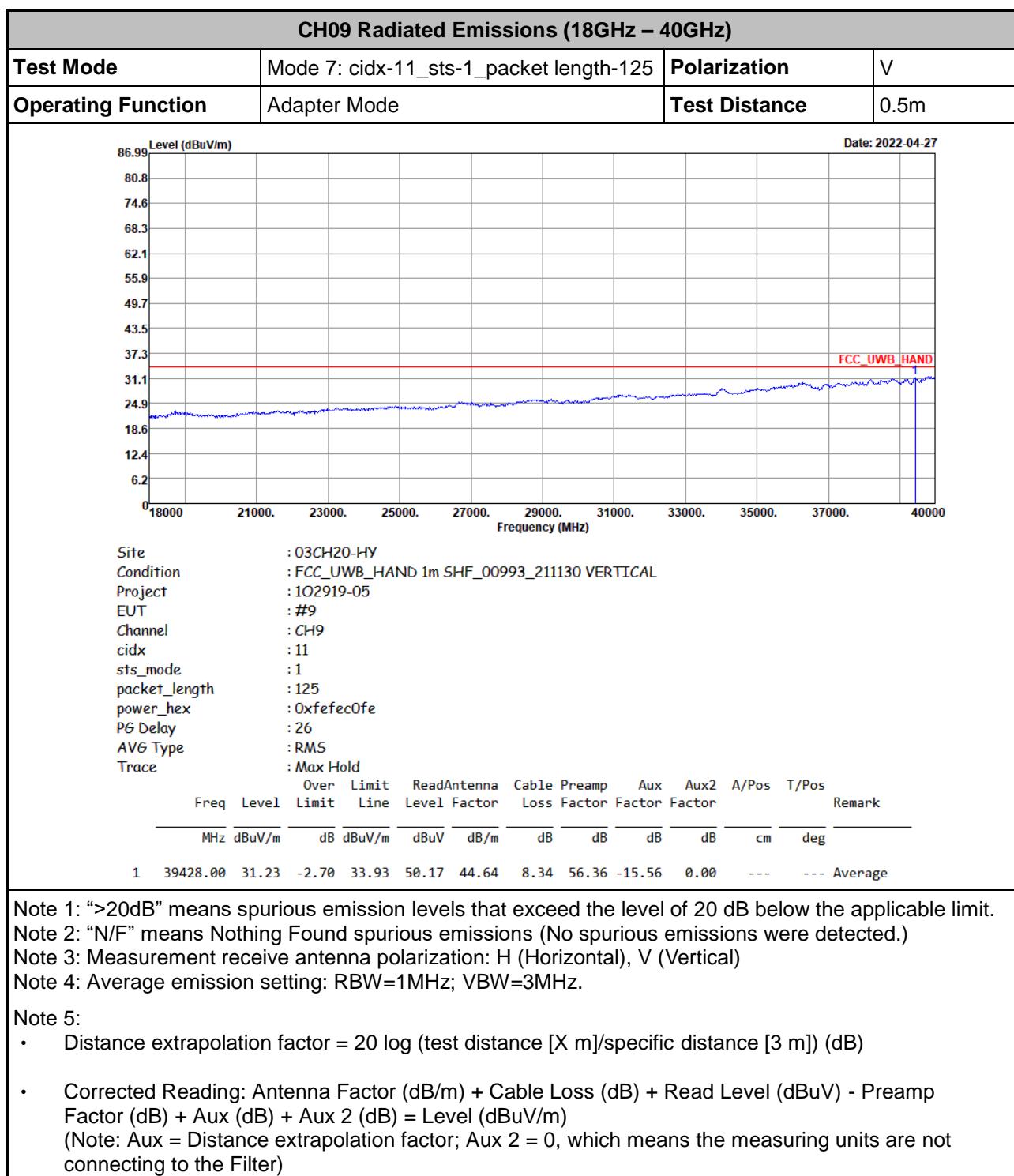


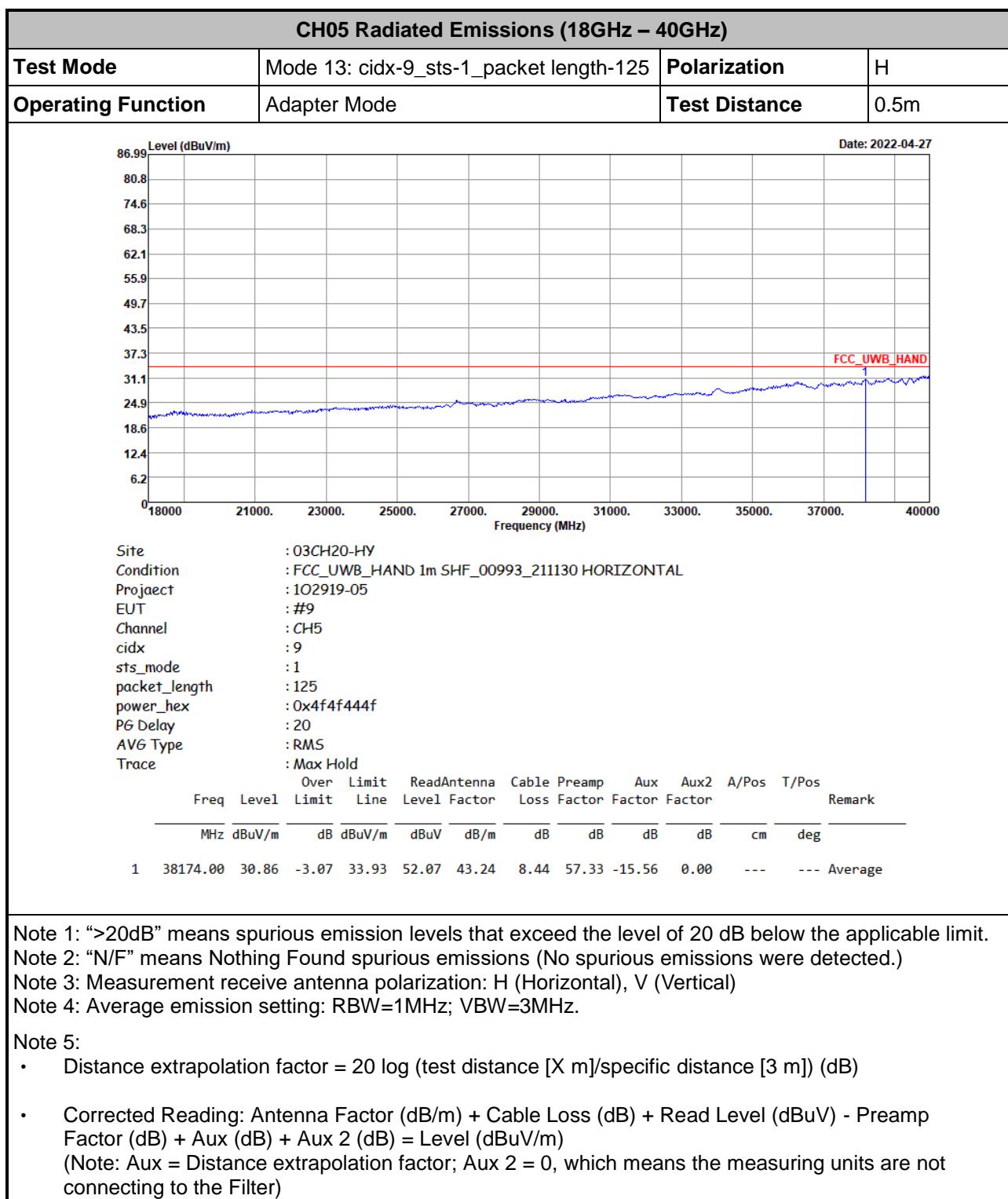


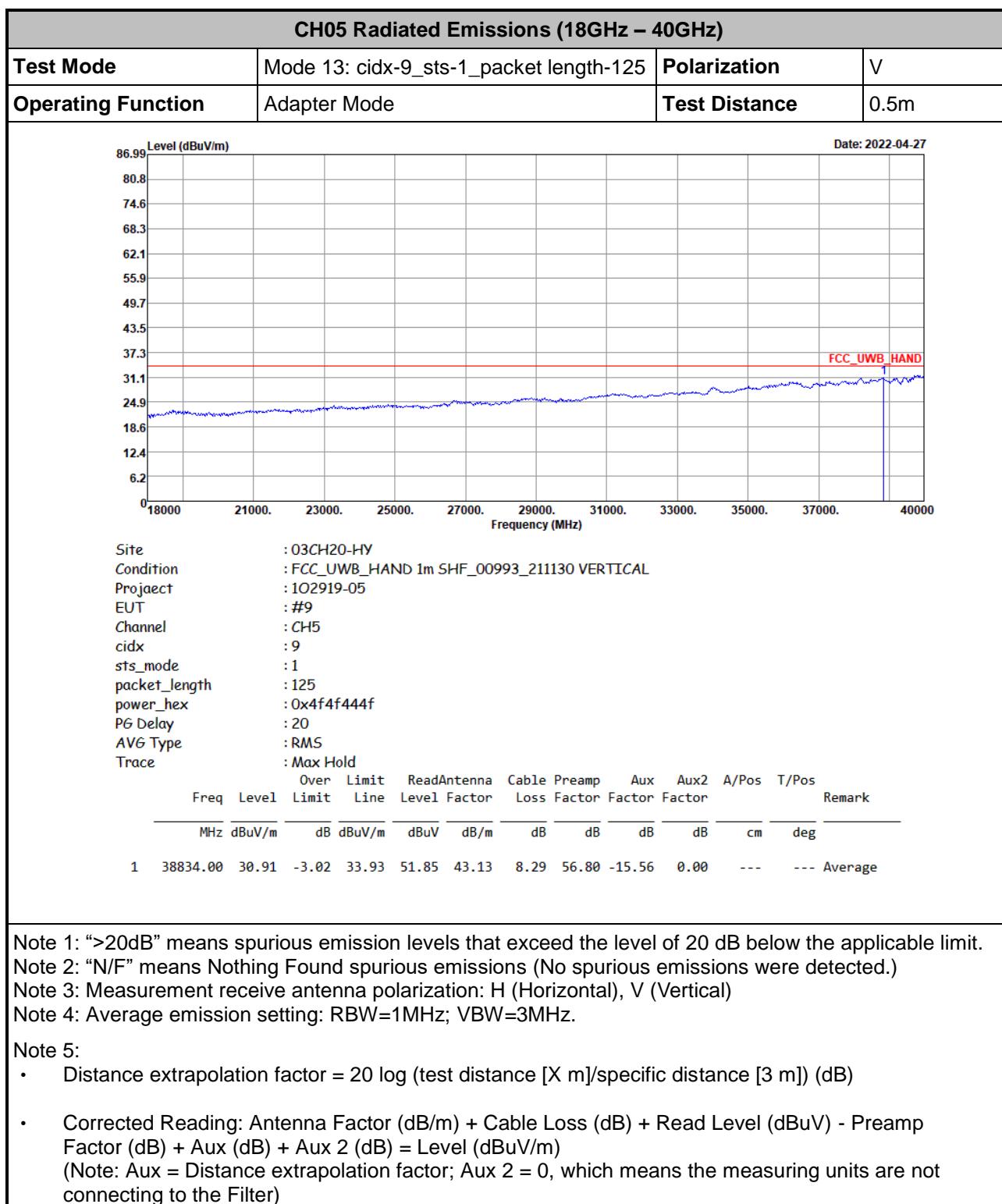


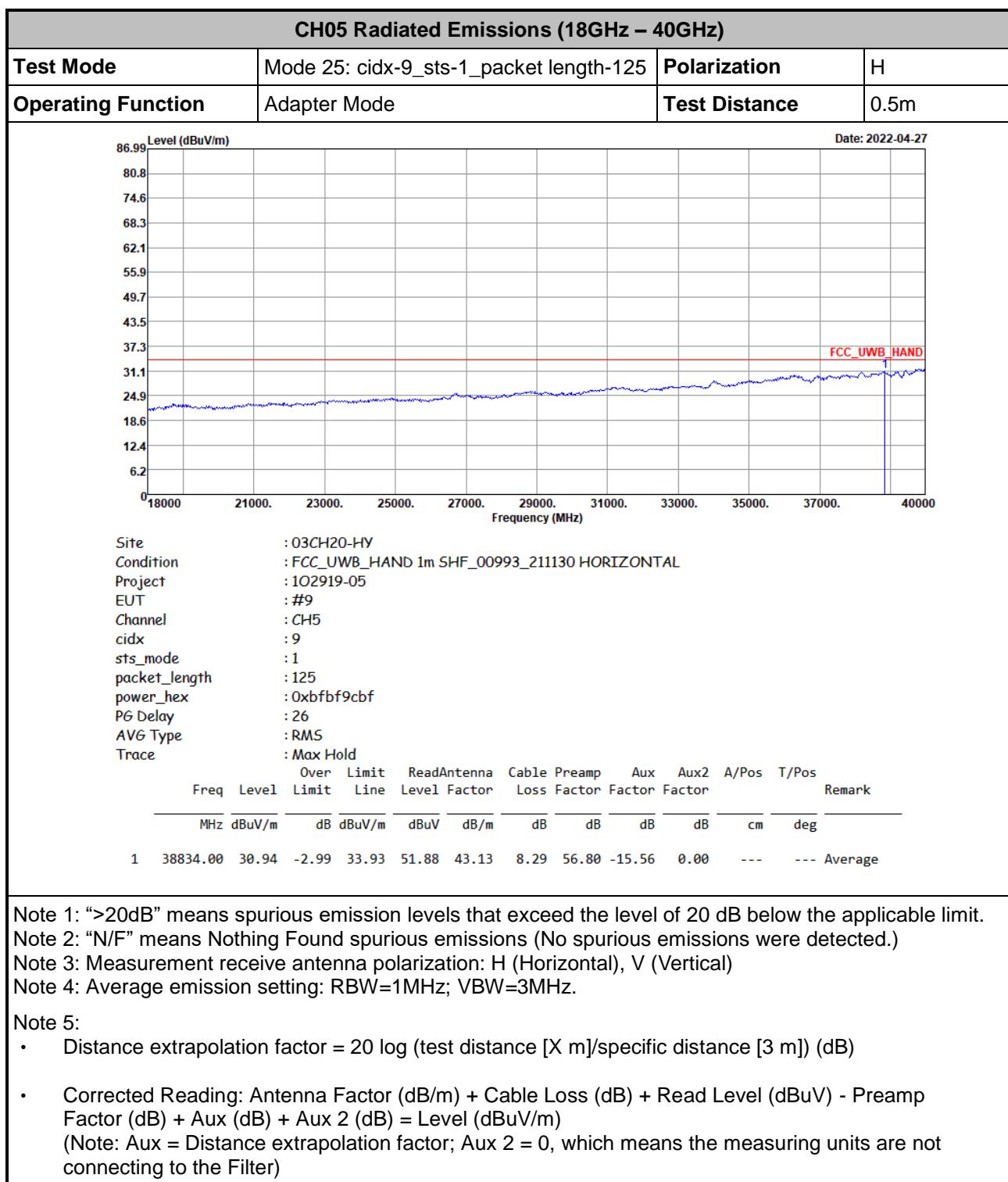
3.5.11 Radiated Emissions (18GHz – 40GHz)

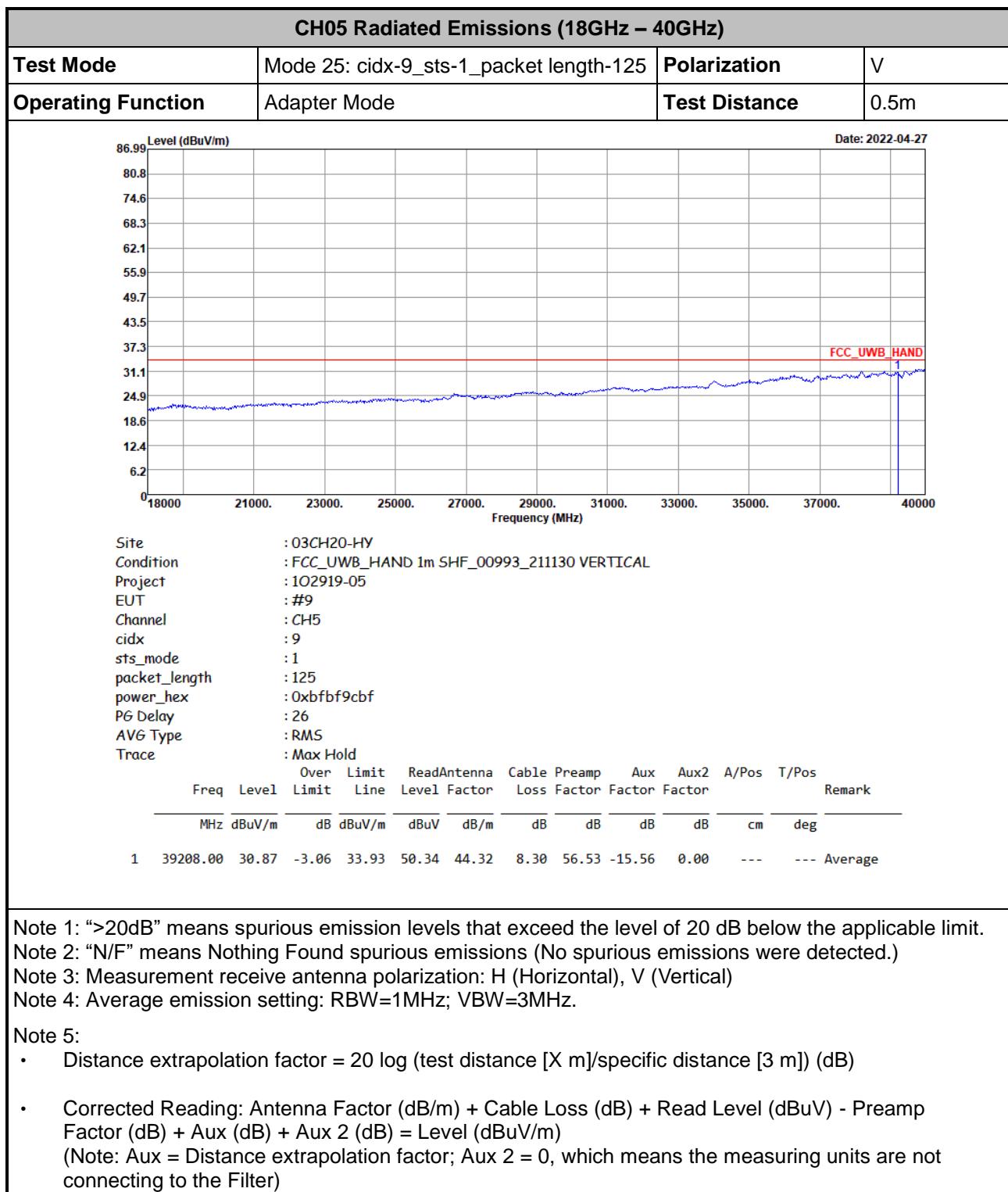


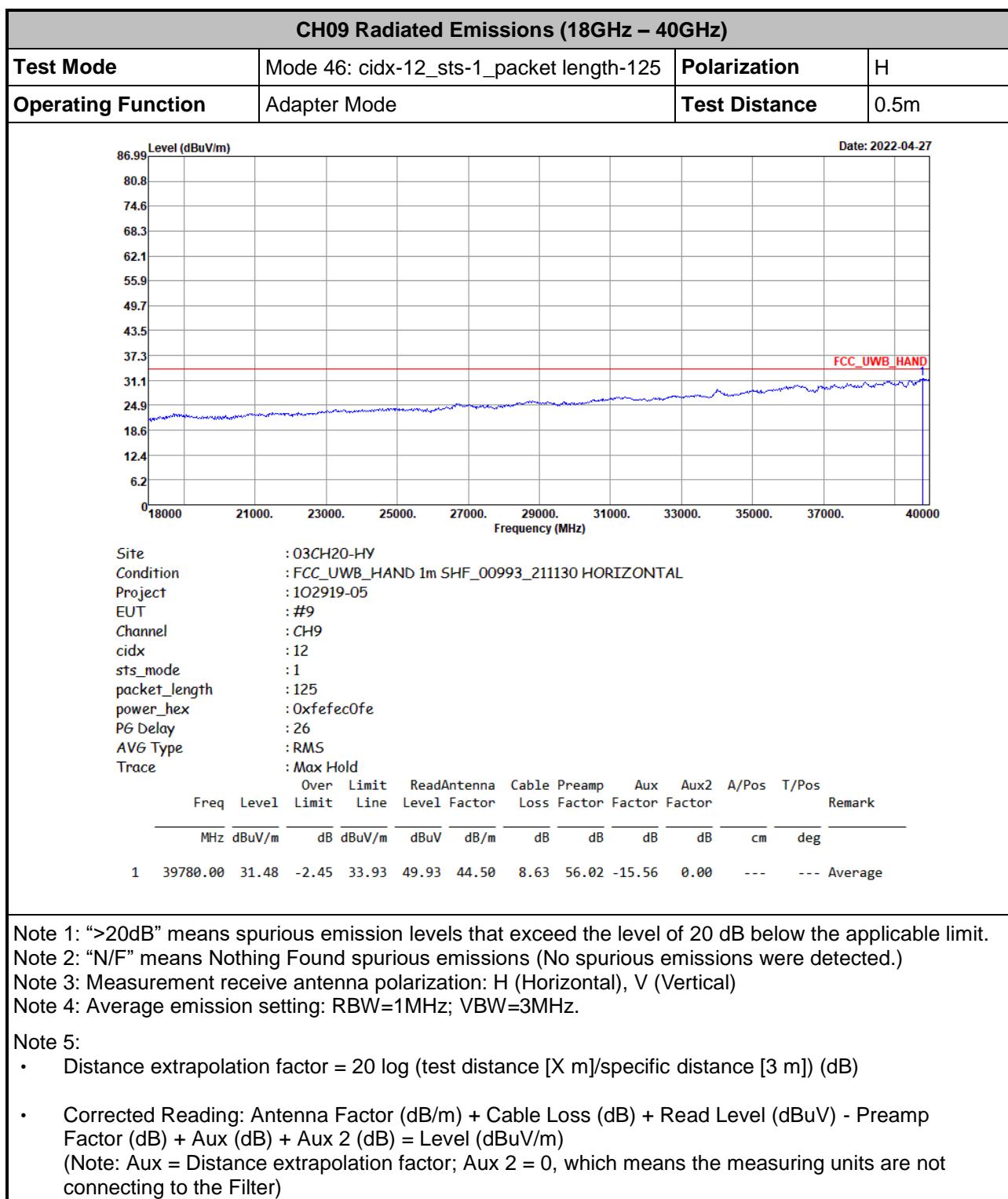


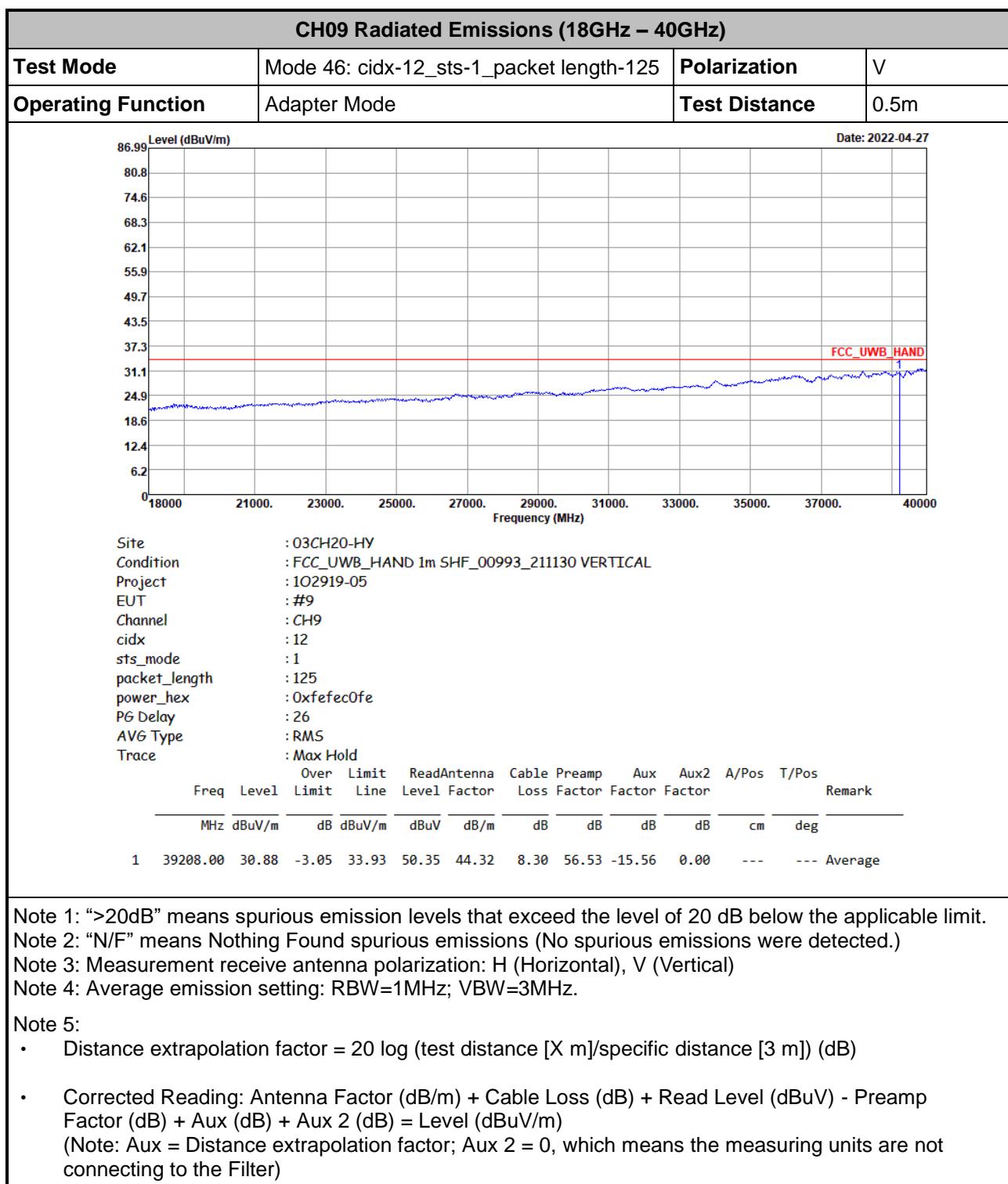














4 Test Equipment and Calibration Data

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receicver	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 12, 2021	Apr. 01, 2022~May 30, 2022	Jul. 11, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 03, 2022	Apr. 01, 2022~May 30, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 15, 2021	Apr. 01, 2022~May 30, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	Apr. 01, 2022~May 30, 2022	Dec. 23, 2022	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Apr. 01, 2022~May 30, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	Apr. 01, 2022~May 30, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2021	Apr. 01, 2022~May 30, 2022	Jun. 22, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 30, 2021	Apr. 01, 2022~May 30, 2022	Nov. 29, 2022	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200879	N/A	Sep. 30, 2021	Apr. 01, 2022~May 30, 2022	Sep. 29, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 19, 2022	Apr. 01, 2022~May 30, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	Apr. 01, 2022~May 30, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 01, 2022~May 30, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 01, 2022~May 30, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 01, 2022~May 30, 2022	N/A	Radiation (03CH20-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 24, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	May 24, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	May 24, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	May 24, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	May 24, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	May 24, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	May 24, 2022	Dec. 29, 2022	Conduction (CO05-HY)
Double Ridge Horn Antenna	ESCO	3117	00066583	1GHz~18GHz	Sep. 27, 2021	May 26, 2022	Sep. 26, 2022	Radiation (05CH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101249	10Hz~44GHz	Dec. 16, 2021	May 26, 2022	Dec. 15, 2022	Radiation (05CH05-HY)
Preamplifier	EM Electronics	EM01G18G	060805	1GHz-18GHz	Jul. 26, 2021	May 26, 2022	Jul. 25, 2022	Radiation (05CH05-HY)
Hygrometer	TECPEL	DTM-303B	TP210117	N/A	Oct. 08, 2021	May 26, 2022	Oct. 07, 2022	Radiation (05CH05-HY)
Antenna Mast	ChainTek	MD-200	1308055	1m~4m	N/A	May 26, 2022	N/A	Radiation (05CH05-HY)

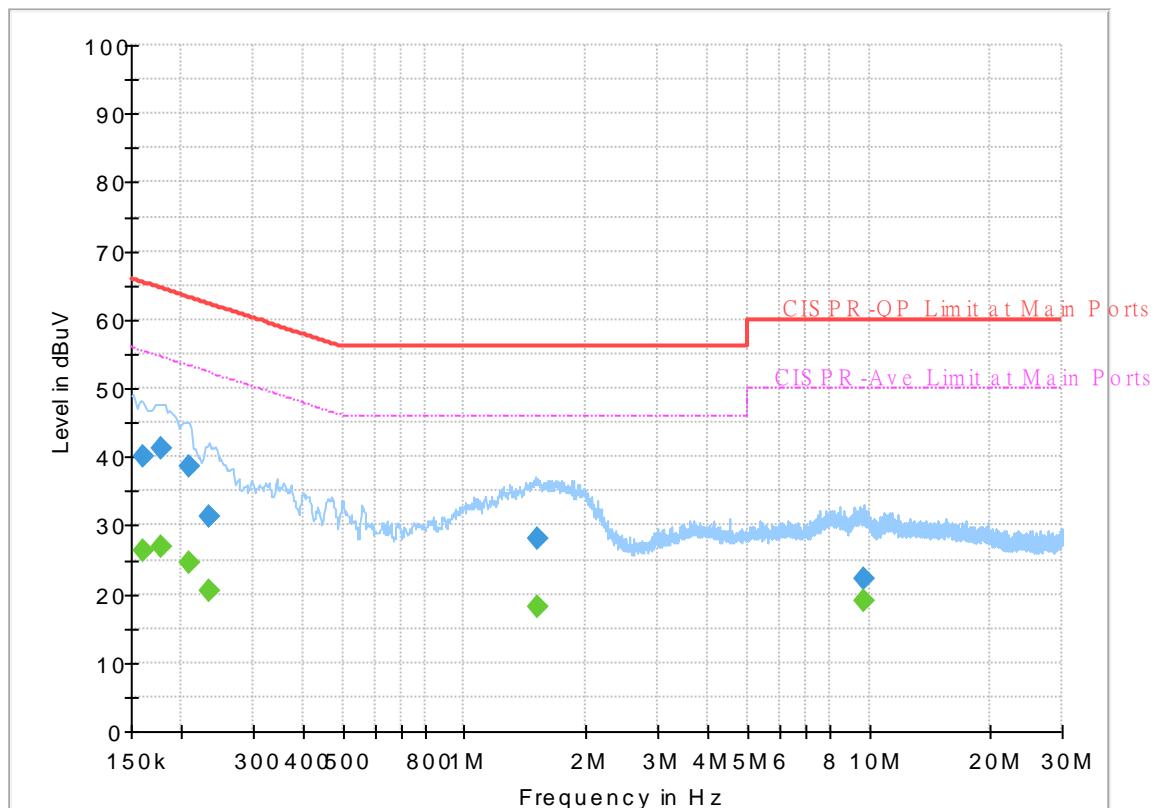


Appendix A. AC Conducted Emission Test Results

EUT Information

Report NO : 102919-05
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



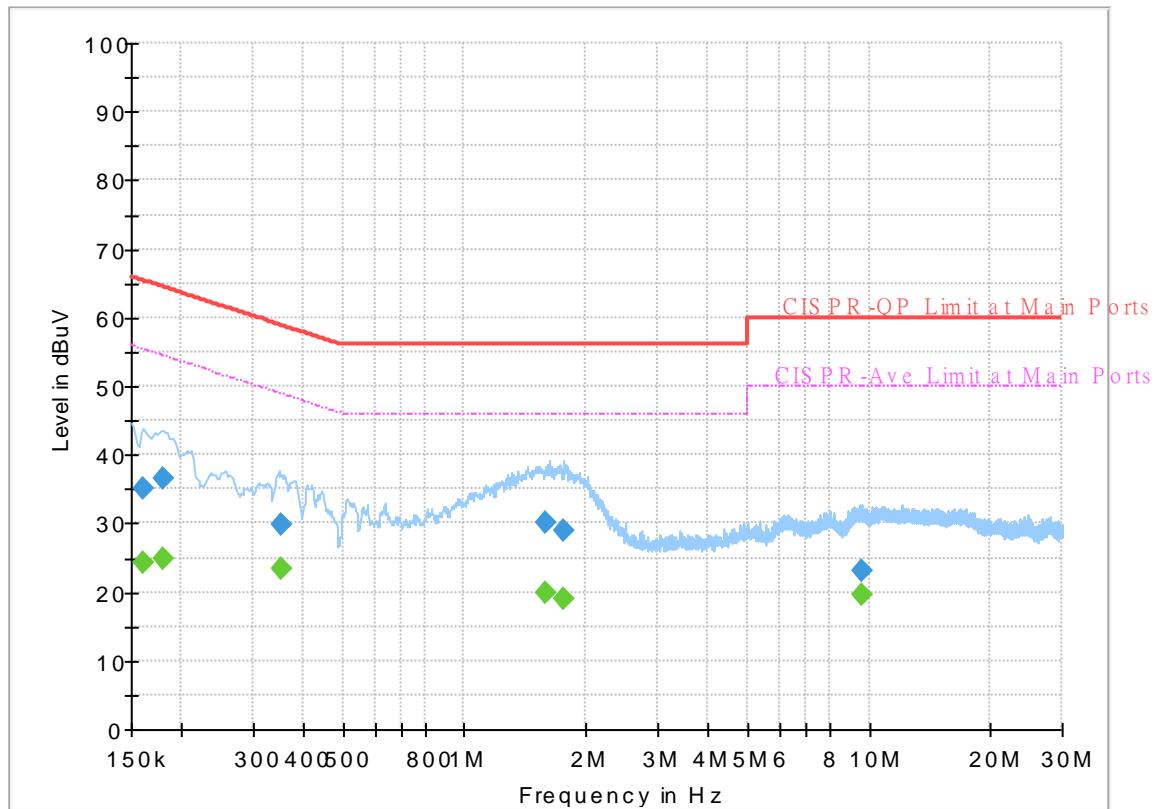
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	26.20	55.40	29.20	L1	OFF	19.6
0.161250	40.08	---	65.40	25.32	L1	OFF	19.6
0.177000	---	26.84	54.63	27.79	L1	OFF	19.6
0.177000	41.11	---	64.63	23.52	L1	OFF	19.6
0.208500	---	24.63	53.27	28.64	L1	OFF	19.6
0.208500	38.48	---	63.27	24.79	L1	OFF	19.6
0.233250	---	20.34	52.33	31.99	L1	OFF	19.6
0.233250	31.25	---	62.33	31.08	L1	OFF	19.6
1.515750	---	18.22	46.00	27.78	L1	OFF	19.6
1.515750	28.16	---	56.00	27.84	L1	OFF	19.6
9.759750	---	18.88	50.00	31.12	L1	OFF	19.8
9.759750	22.18	---	60.00	37.82	L1	OFF	19.8

EUT Information

Report NO : 102919-05
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	24.29	55.40	31.11	N	OFF	19.6
0.161250	35.01	---	65.40	30.39	N	OFF	19.6
0.179250	---	24.83	54.52	29.69	N	OFF	19.6
0.179250	36.47	---	64.52	28.05	N	OFF	19.6
0.352500	---	23.34	48.90	25.56	N	OFF	19.6
0.352500	29.70	---	58.90	29.20	N	OFF	19.6
1.587750	---	19.99	46.00	26.01	N	OFF	19.6
1.587750	29.98	---	56.00	26.02	N	OFF	19.6
1.765500	---	19.08	46.00	26.92	N	OFF	19.6
1.765500	29.00	---	56.00	27.00	N	OFF	19.6
9.557250	---	19.73	50.00	30.27	N	OFF	19.8
9.557250	23.04	---	60.00	36.96	N	OFF	19.8

—————THE END—————