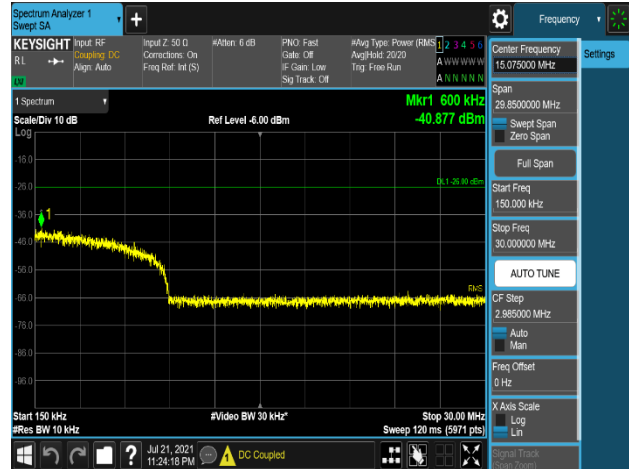
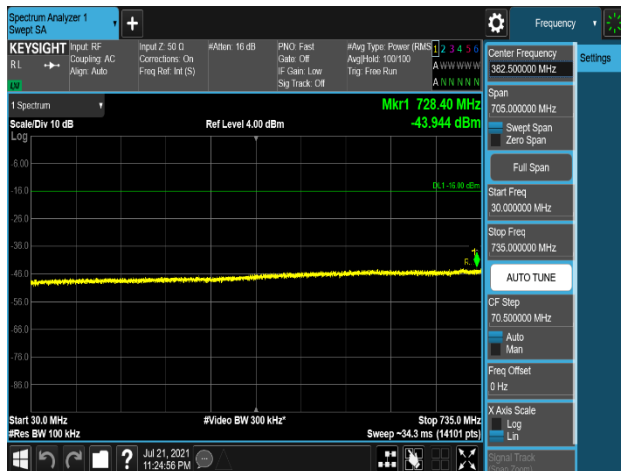


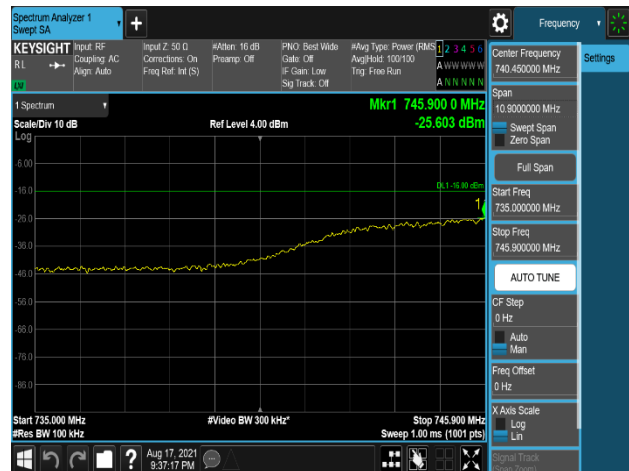
Plot 7-753. Conducted Spurious Emission Plot  
 9 kHz to 150 kHz  
 (B13\_10M\_1C\_QPSK, Port 0)



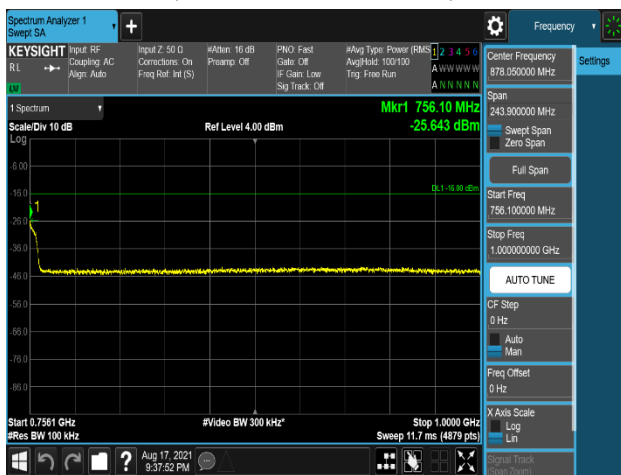
Plot 7-754. Conducted Spurious Emission Plot  
 150 kHz to 30 MHz  
 (B13\_10M\_1C\_QPSK, Port 1)



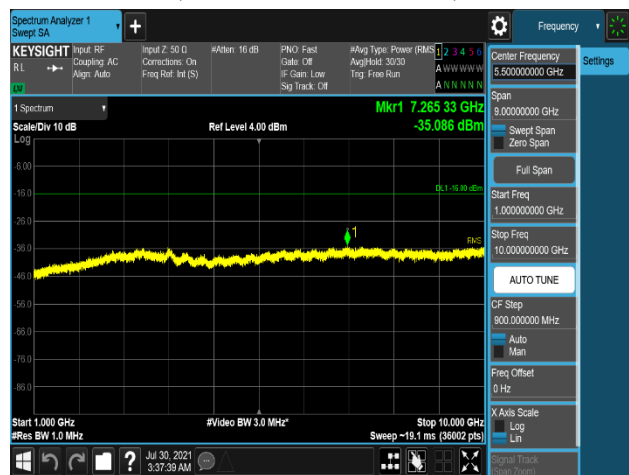
Plot 7-755. Conducted Spurious Emission Plot  
 30 MHz to 735 MHz  
 (B13\_10M\_1C\_QPSK, Port 1)



Plot 7-756. Conducted Spurious Emission Plot  
 735 MHz to 745.9 MHz  
 (B13\_10M\_1C\_QPSK, Port 1)



Plot 7-757. Conducted Spurious Emission Plot  
 756.1 MHz to 1 GHz  
 (B13\_10M\_1C\_QPSK, Port 1)




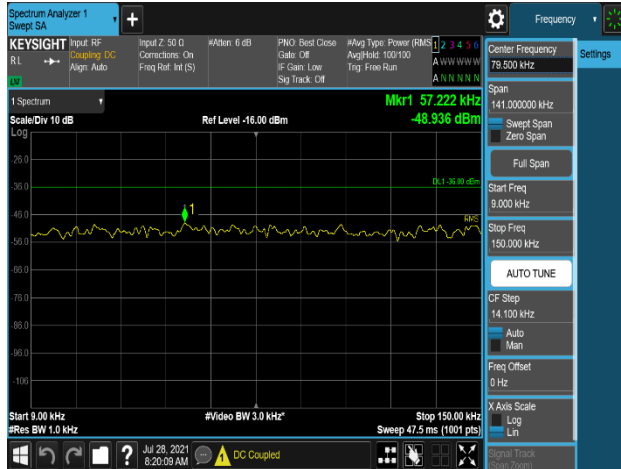
Plot 7-758. Conducted Spurious Emission Plot  
 1 GHz to 10 GHz  
 (B13\_10M\_1C\_QPSK, Port 1)

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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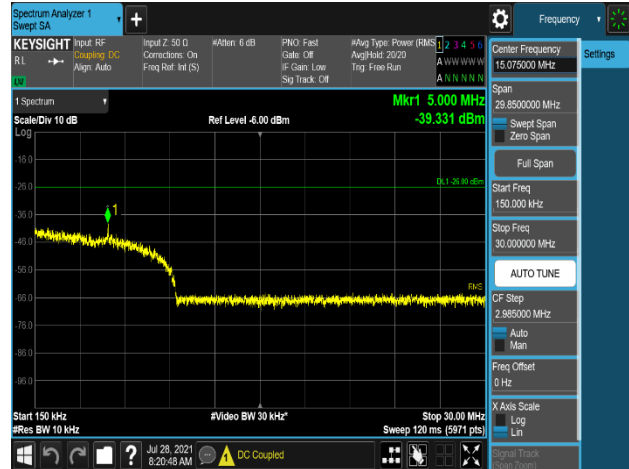
Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Middle	0	9 kHz to 150 kHz	-50.72	-50.34	-50.77	-50.88	-36.01	-14.33
		150 kHz to 30 MHz	-41.36	-41.24	-42.20	-41.66	-26.01	-15.23
		30 MHz to 735 MHz	-43.95	-43.92	-44.10	-44.18	-16.01	-27.91
		735 MHz to 745.9 MHz	-24.83	-25.40	<b>-24.41</b>	-25.76	-16.01	-8.40
		756.1 MHz to 1 GHz	-21.65	-23.48	<b>-20.65</b>	-20.66	-16.01	-4.64
		1 GHz to 10 GHz	-34.62	-34.80	-34.91	-35.13	-16.01	-18.61
	1	9 kHz to 150 kHz	-49.27	<b>-48.94</b>	-49.35	-49.69	-36.01	-12.93
		150 kHz to 30 MHz	-40.71	<b>-39.33</b>	-40.61	-40.17	-26.01	-13.32
		30 MHz to 735 MHz	-44.01	-43.86	<b>-43.78</b>	-43.81	-16.01	-27.77
		735 MHz to 745.9 MHz	-26.59	-26.09	-26.43	-25.84	-16.01	-9.83
		756.1 MHz to 1 GHz	-21.12	-23.16	-22.62	-21.21	-16.01	-5.11
		1 GHz to 10 GHz	-33.74	-33.83	-33.58	<b>-33.52</b>	-16.01	-17.51

**Table 7-183. Conducted Spurious Emission Summary Data (B13\_5M+5M\_2C\_2T)**

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 262 of 367	



Plot 7-759. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_5M+5M\_2C\_16QAM, Port 1)



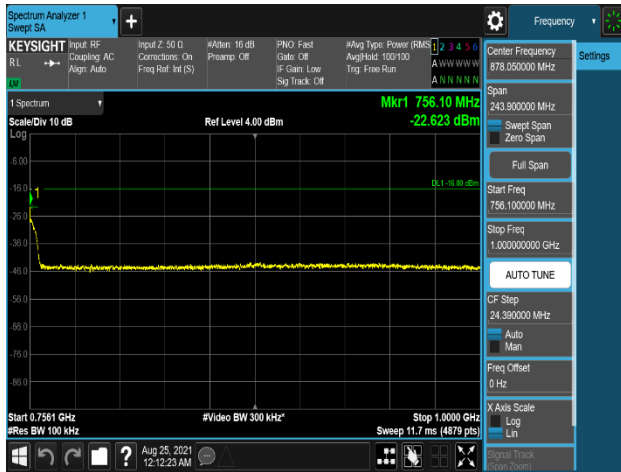
Plot 7-760. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_5M+5M\_2C\_16QAM, Port 1)



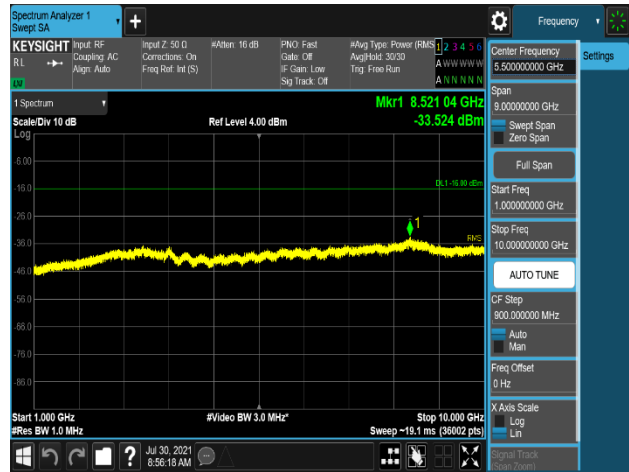
Plot 7-761. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_5M+5M\_2C\_64QAM, Port 1)



Plot 7-762. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_5M+5M\_2C\_64QAM, Port 0)



Plot 7-763. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_5M+5M\_2C\_64QAM, Port 0)



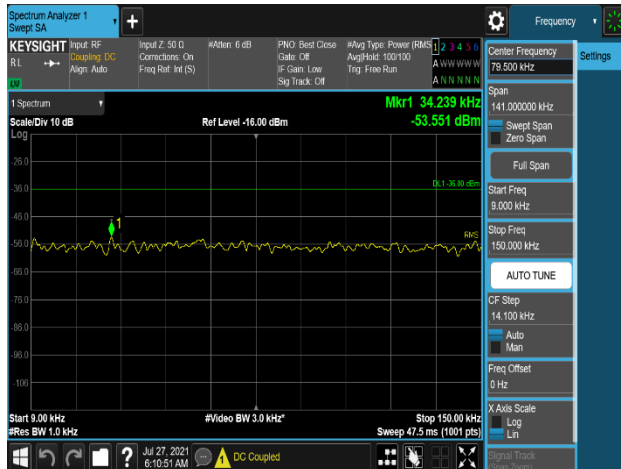
Plot 7-764. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_5M+5M\_2C\_256QAM, Port 1)

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Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	9 kHz to 150 kHz	-54.56	-36.01	-18.55
		150 kHz to 30 MHz	-45.32	-26.01	-19.31
		30 MHz to 735 MHz	-44.28	-16.01	-28.27
		735 MHz to 745.9 MHz	-30.88	-16.01	-14.87
		756.1 MHz to 1 GHz	-36.87	-16.01	-20.86
		1 GHz to 10 GHz	-34.75	-16.01	-18.74
	1	9 kHz to 150 kHz	<b>-53.55</b>	-36.01	-17.54
		150 kHz to 30 MHz	-44.57	-26.01	-18.56
		30 MHz to 735 MHz	-45.00	-16.01	-28.99
		735 MHz to 745.9 MHz	<b>-30.38</b>	-16.01	-14.37
		756.1 MHz to 1 GHz	-36.08	-16.01	-20.07
		1 GHz to 10 GHz	-34.12	-16.01	-18.11
Middle	0	9 kHz to 150 kHz	-54.28	-36.01	-18.27
		150 kHz to 30 MHz	-45.03	-26.01	-19.02
		30 MHz to 735 MHz	-44.34	-16.01	-28.33
		735 MHz to 745.9 MHz	-37.56	-16.01	-21.55
		756.1 MHz to 1 GHz	-34.81	-16.01	-18.80
		1 GHz to 10 GHz	-34.99	-16.01	-18.98
	1	9 kHz to 150 kHz	-53.79	-36.01	-17.78
		150 kHz to 30 MHz	<b>-44.37</b>	-26.01	-18.36
		30 MHz to 735 MHz	-44.87	-16.01	-28.86
		735 MHz to 745.9 MHz	-36.40	-16.01	-20.39
		756.1 MHz to 1 GHz	-35.36	-16.01	-19.35
		1 GHz to 10 GHz	-34.08	-16.01	-18.07
High	0	9 kHz to 150 kHz	-54.84	-36.01	-18.83
		150 kHz to 30 MHz	-45.55	-26.01	-19.54
		30 MHz to 735 MHz	<b>-43.99</b>	-16.01	-27.98
		735 MHz to 745.9 MHz	-36.43	-16.01	-20.42
		756.1 MHz to 1 GHz	-24.02	-16.01	-8.01
		1 GHz to 10 GHz	-35.16	-16.01	-19.15
	1	9 kHz to 150 kHz	-54.24	-36.01	-18.23
		150 kHz to 30 MHz	-44.38	-26.01	-18.37
		30 MHz to 735 MHz	-44.83	-16.01	-28.82
		735 MHz to 745.9 MHz	-35.95	-16.01	-19.94
		756.1 MHz to 1 GHz	<b>-22.18</b>	-16.01	-6.17
		1 GHz to 10 GHz	<b>-33.87</b>	-16.01	-17.86

**Table 7-184. Conducted Spurious Emission Summary Data (B13\_5M+NB-IoT(IB))\_2T)**

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-765. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_5M+NB-lot(IB)\_1C\_QPSK – Low Channel, Port 1)



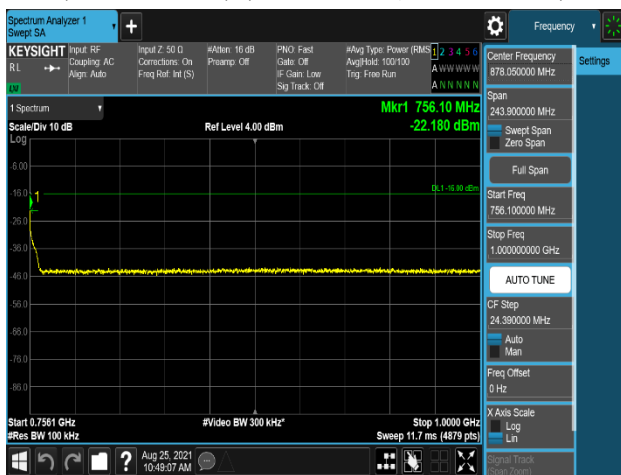
Plot 7-766. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_5M+NB-lot(IB)\_1C\_QPSK – Middle Channel, Port 1)



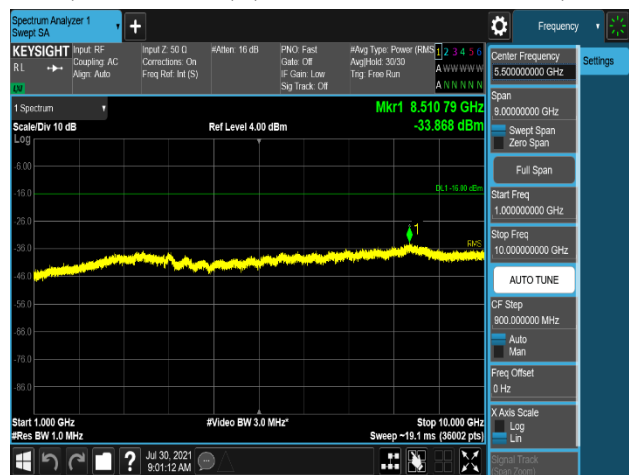
Plot 7-767. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_5M+NB-lot(IB)\_1C\_QPSK – High Channel, Port 0)



Plot 7-768. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_5M+NB-lot(IB)\_1C\_QPSK – Low Channel, Port 1)



Plot 7-769. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_5M+NB-lot(IB)\_1C\_QPSK – High Channel, Port 1)



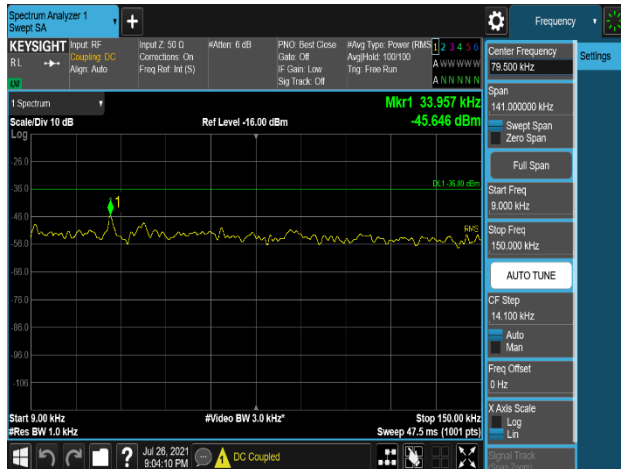
Plot 7-770. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_5M+NB-lot(IB)\_1C\_QPSK – High Channel, Port 1)

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 265 of 367

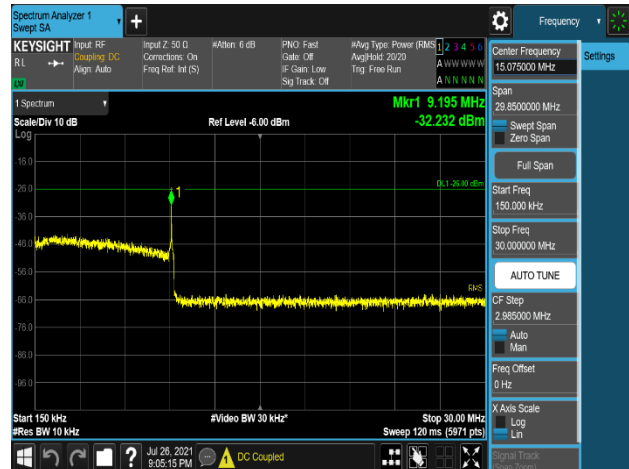
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	<b>-45.65</b>	-36.01	-9.64
		150 kHz to 30 MHz	-33.25	-26.01	-7.24
		30 MHz to 735 MHz	-43.66	-16.01	-27.65
		735 MHz to 745.9 MHz	<b>-22.44</b>	-16.01	-6.43
		756.1 MHz to 1 GHz	-21.17	-16.01	-5.16
		1 GHz to 10 GHz	-35.06	-16.01	-19.05
	1	9 kHz to 150 kHz	-46.07	-36.01	-10.06
		150 kHz to 30 MHz	<b>-32.23</b>	-26.01	-6.22
		30 MHz to 735 MHz	<b>-42.92</b>	-16.01	-26.91
		735 MHz to 745.9 MHz	-23.22	-16.01	-7.21
		756.1 MHz to 1 GHz	<b>-20.76</b>	-16.01	-4.75
		1 GHz to 10 GHz	<b>-32.90</b>	-16.01	-16.89

**Table 7-185. Conducted Spurious Emission Summary Data (B13\_10M+NB-IoT(GB))\_2C\_2T)**

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 266 of 367	



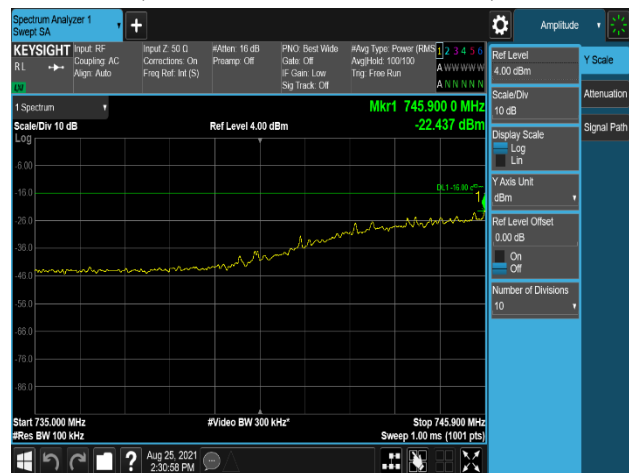
Plot 7-771. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_10M+NB-IoT(GB)\_2C\_QPSK, Port 0)



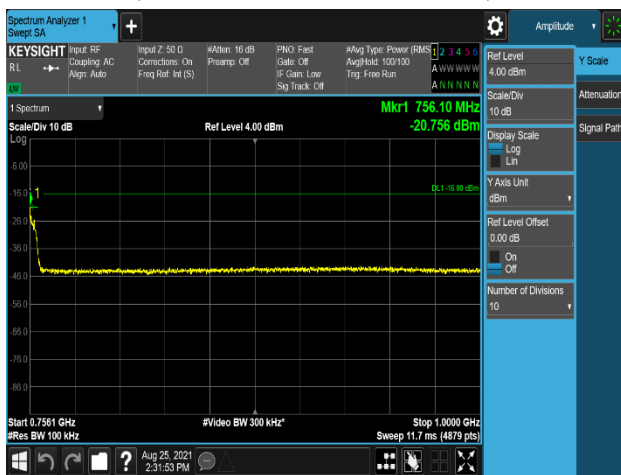
Plot 7-772. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_10M+NB-IoT(GB)\_2C\_QPSK, Port 1)



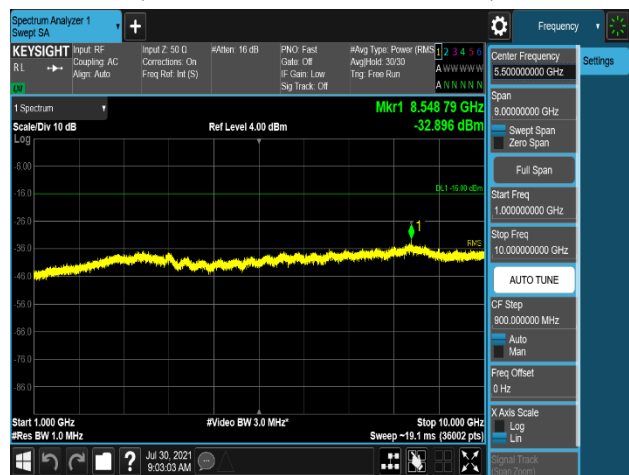
Plot 7-773. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_10M+NB-IoT(GB)\_2C\_QPSK, Port 1)



Plot 7-774. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_10M+NB-IoT(GB)\_2C\_QPSK, Port 0)



Plot 7-775. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_10M+NB-IoT(GB)\_2C\_QPSK, Port 1)



Plot 7-776. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_10M+NB-IoT(GB)\_2C\_QPSK, Port 1)

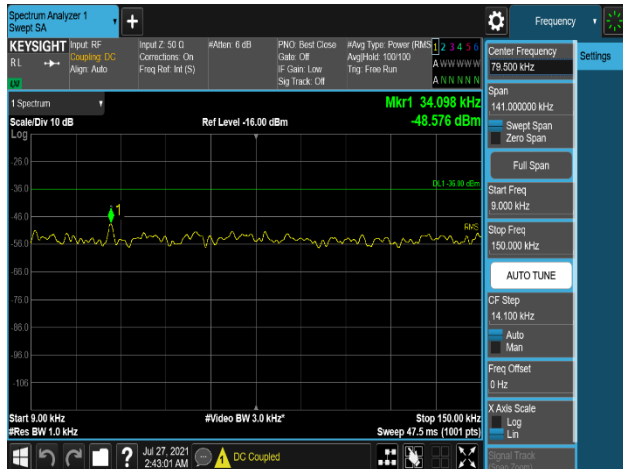
FCC ID: A3LRF4440D-13A		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 267 of 367

Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-50.72	-36.01	-14.71
		150 kHz to 30 MHz	-39.93	-26.01	-13.92
		30 MHz to 735 MHz	<b>-43.79</b>	-16.01	-27.78
		735 MHz to 745.9 MHz	-27.07	-16.01	-11.06
		756.1 MHz to 1 GHz	-25.22	-16.01	-9.21
		1 GHz to 10 GHz	-34.88	-16.01	-18.87
	1	9 kHz to 150 kHz	<b>-48.58</b>	-36.01	-12.57
		150 kHz to 30 MHz	<b>-37.89</b>	-26.01	-11.88
		30 MHz to 735 MHz	-44.08	-16.01	-28.07
		735 MHz to 745.9 MHz	<b>-25.79</b>	-16.01	-9.78
		756.1 MHz to 1 GHz	<b>-22.78</b>	-16.01	-6.77
		1 GHz to 10 GHz	<b>-33.65</b>	-16.01	-17.64

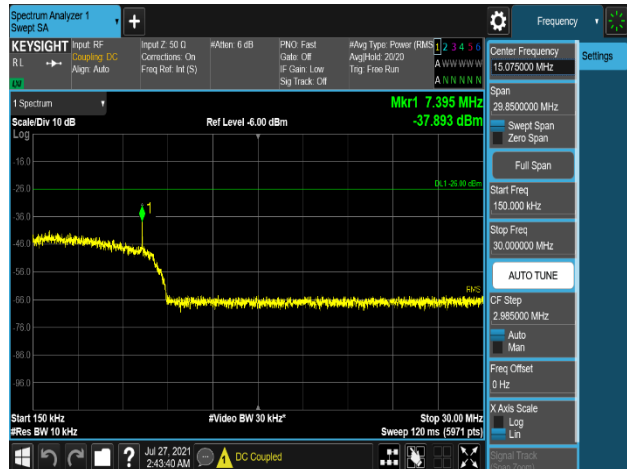
**Table 7-186. Conducted Spurious Emission Summary Data  
(B13\_10M+Low\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_2T)**

<b>FCC ID:</b> A3LRF4440D-13A		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21070501R2-R1	<b>Test Dates:</b> 07/09/2021 - 08/25/2021	<b>EUT Type:</b> RRU (RF4440d)	Page 268 of 367	

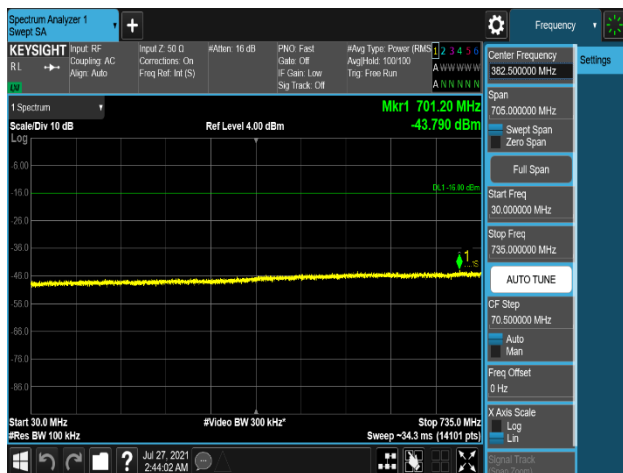




Plot 7-777. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_10M+Low\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)



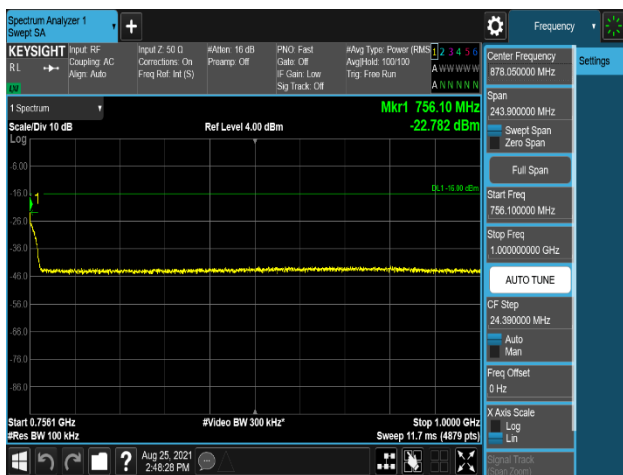
Plot 7-778. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_10M+Low\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)



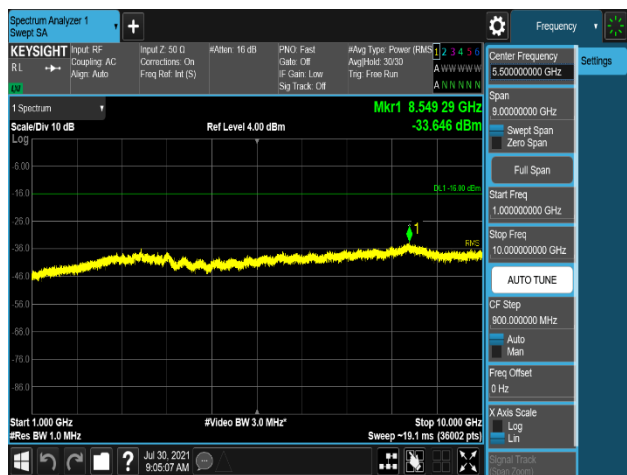
Plot 7-779. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_10M+Low\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 0)



Plot 7-780. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_10M+Low\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)



Plot 7-781. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_10M+Low\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)



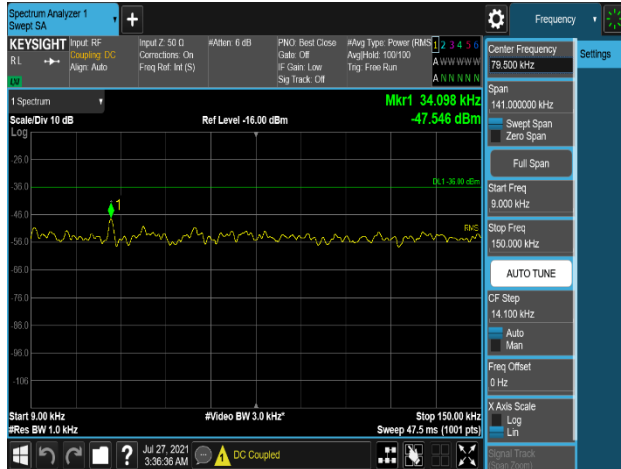
Plot 7-782. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_10M+Low\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 269 of 367

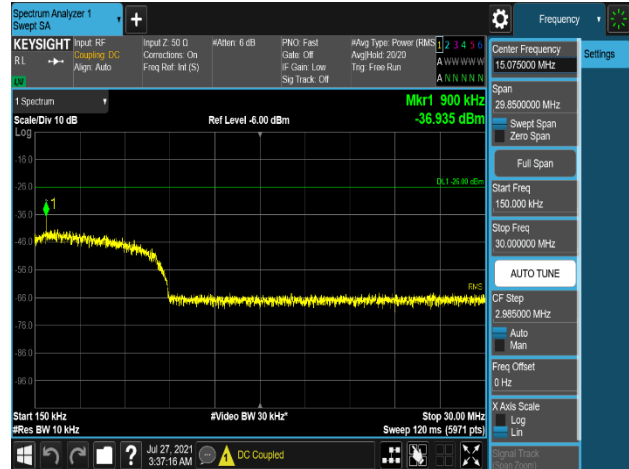
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-48.13	-36.01	-12.12
		150 kHz to 30 MHz	-39.90	-26.01	-13.89
		30 MHz to 735 MHz	<b>-44.06</b>	-16.01	-28.05
		735 MHz to 745.9 MHz	<b>-26.45</b>	-16.01	-10.44
		756.1 MHz to 1 GHz	-26.75	-16.01	-10.74
		1 GHz to 10 GHz	-34.31	-16.01	-18.30
	1	9 kHz to 150 kHz	<b>-47.55</b>	-36.01	-11.54
		150 kHz to 30 MHz	<b>-36.94</b>	-26.01	-10.93
		30 MHz to 735 MHz	-44.42	-16.01	-28.41
		735 MHz to 745.9 MHz	-26.51	-16.01	-10.50
		756.1 MHz to 1 GHz	<b>-25.73</b>	-16.01	-9.72
		1 GHz to 10 GHz	<b>-33.68</b>	-16.01	-17.67

**Table 7-187. Conducted Spurious Emission Summary Data  
(B13\_10M+Low\_NB-lot(IB)+Low\_NB-lot(IB)\_1C\_2T)**

FCC ID: A3LRF4440D-13A		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21070501R2-R1	<b>Test Dates:</b> 07/09/2021 - 08/25/2021	<b>EUT Type:</b> RRU (RF4440d)	Page 270 of 367	



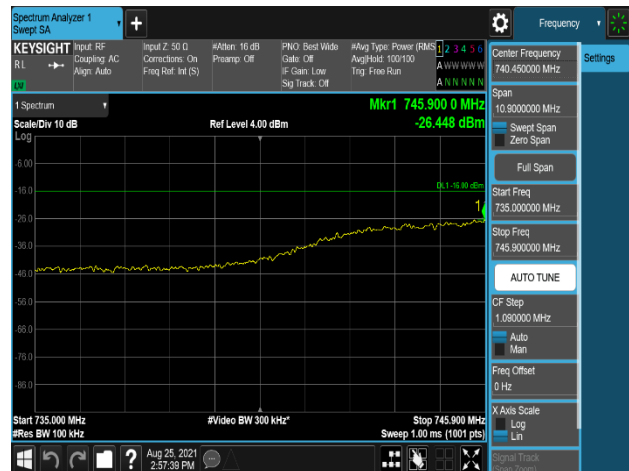
Plot 7-783. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_10M+Low\_NB-lot(IB)+Low\_NB-lot(IB)\_1C\_QPSK, Port 1)



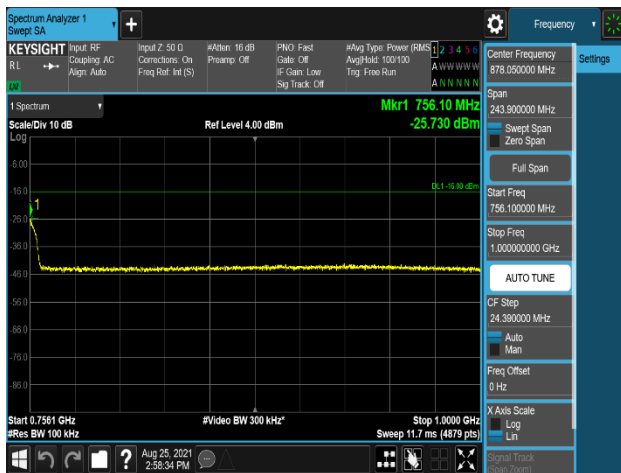
Plot 7-784. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_10M+Low\_NB-lot(IB)+Low\_NB-lot(IB)\_1C\_QPSK, Port 1)



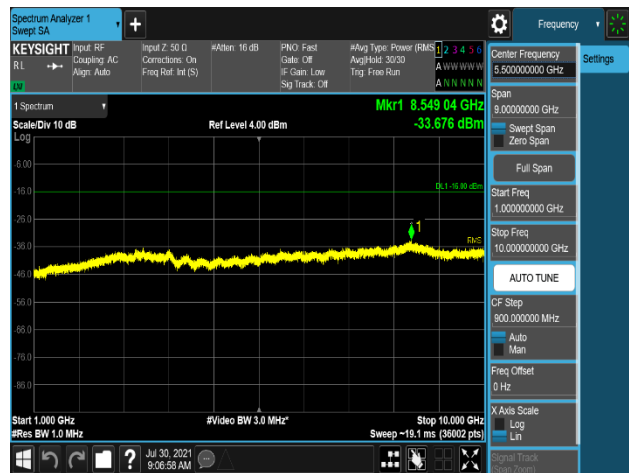
Plot 7-785. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_10M+Low\_NB-lot(IB)+Low\_NB-lot(IB)\_1C\_QPSK, Port 0)



Plot 7-786. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_10M+Low\_NB-lot(IB)+Low\_NB-lot(IB)\_1C\_QPSK, Port 0)



Plot 7-787. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_10M+Low\_NB-lot(IB)+Low\_NB-lot(IB)\_1C\_QPSK, Port 1)




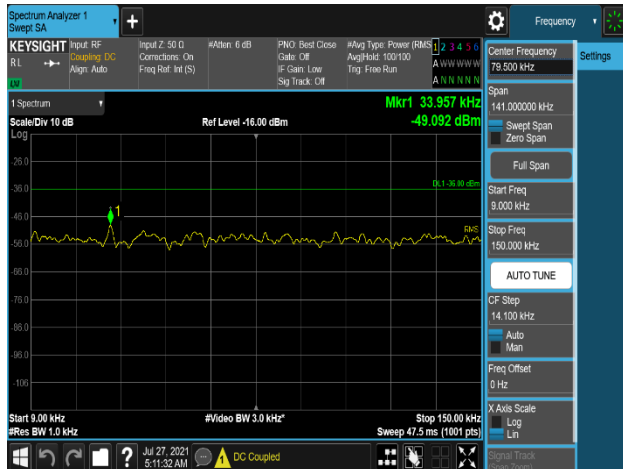
Plot 7-788. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_10M+Low\_NB-lot(IB)+Low\_NB-lot(IB)\_1C\_QPSK, Port 1)

FCC ID: A3LRF4440D-13A		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21070501R2-R1	<b>Test Dates:</b> 07/09/2021 - 08/25/2021	<b>EUT Type:</b> RRU (RF4440d)		Page 271 of 367

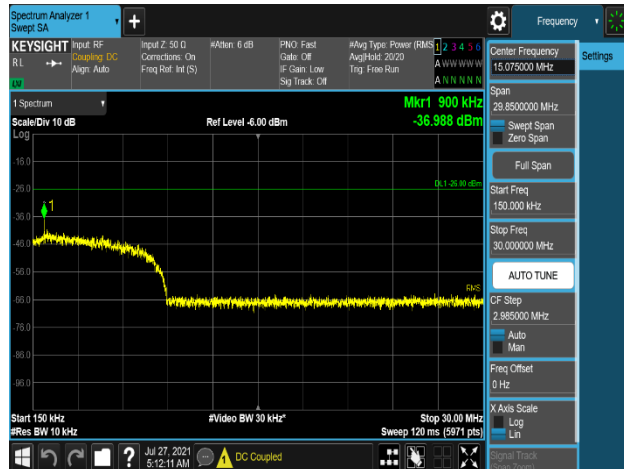
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-49.74	-36.01	-13.73
		150 kHz to 30 MHz	-38.39	-26.01	-12.38
		30 MHz to 735 MHz	<b>-44.20</b>	-16.01	-28.19
		735 MHz to 745.9 MHz	<b>-25.91</b>	-16.01	-9.90
		756.1 MHz to 1 GHz	-24.96	-16.01	-8.95
		1 GHz to 10 GHz	-35.07	-16.01	-19.06
	1	9 kHz to 150 kHz	<b>-49.09</b>	-36.01	-13.08
		150 kHz to 30 MHz	<b>-36.99</b>	-26.01	-10.98
		30 MHz to 735 MHz	-44.30	-16.01	-28.29
		735 MHz to 745.9 MHz	-26.97	-16.01	-10.96
		756.1 MHz to 1 GHz	<b>-23.73</b>	-16.01	-7.72
		1 GHz to 10 GHz	<b>-33.98</b>	-16.01	-17.97

**Table 7-188. Conducted Spurious Emission Summary Data  
(B13\_10M+High\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_2T)**

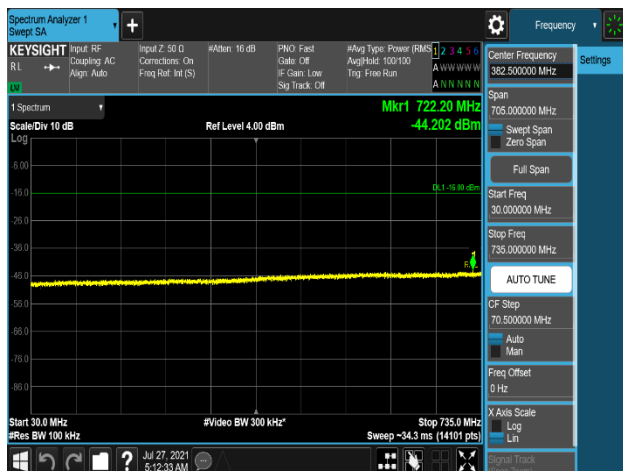
<b>FCC ID:</b> A3LRF4440D-13A		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21070501R2-R1	<b>Test Dates:</b> 07/09/2021 - 08/25/2021	<b>EUT Type:</b> RRU (RF4440d)		Page 272 of 367



Plot 7-789. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_10M+High\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)



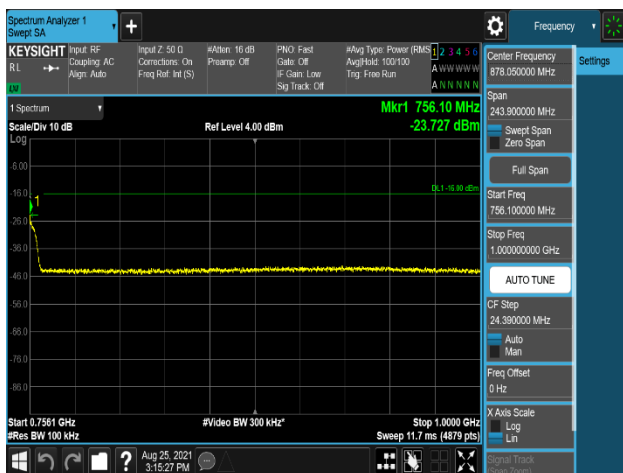
Plot 7-790. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_10M+High\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)



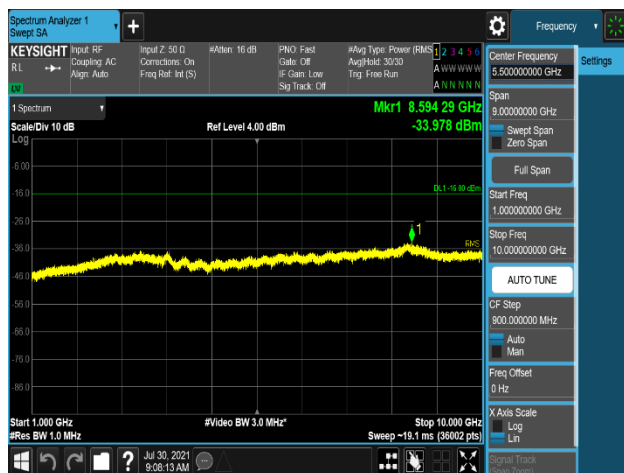
Plot 7-791. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_10M+High\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 0)



Plot 7-792. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_10M+High\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 0)



Plot 7-793. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_10M+High\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)




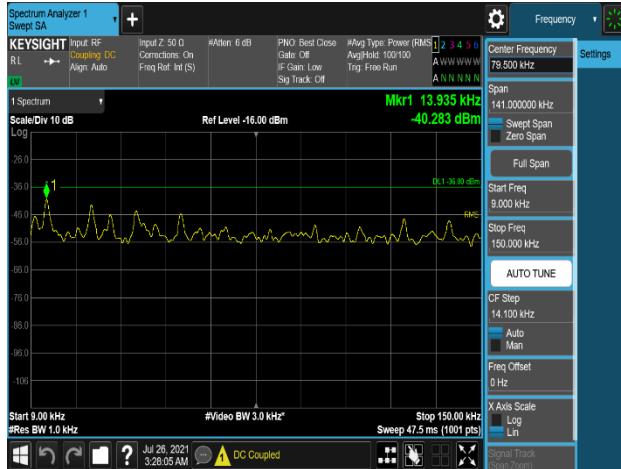
Plot 7-794. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_10M+High\_NB-lot(IB)+High\_NB-lot(IB)\_1C\_QPSK, Port 1)

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: BK21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 273 of 367

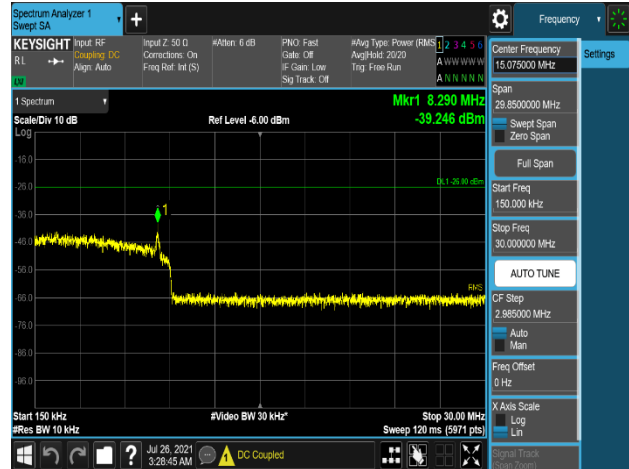
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-41.22	-36.01	-5.21
		150 kHz to 30 MHz	-39.90	-26.01	-13.89
		30 MHz to 735 MHz	<b>-43.55</b>	-16.01	-27.54
		735 MHz to 745.9 MHz	<b>-22.10</b>	-16.01	-6.09
		756.1 MHz to 1 GHz	-35.62	-16.01	-19.61
		1 GHz to 10 GHz	-35.04	-16.01	-19.03
	1	9 kHz to 150 kHz	<b>-40.28</b>	-36.01	-4.27
		150 kHz to 30 MHz	<b>-39.25</b>	-26.01	-13.24
		30 MHz to 735 MHz	-44.01	-16.01	-28.00
		735 MHz to 745.9 MHz	-23.45	-16.01	-7.44
		756.1 MHz to 1 GHz	<b>-30.63</b>	-16.01	-14.62
		1 GHz to 10 GHz	<b>-33.92</b>	-16.01	-17.91

**Table 7-189. Conducted Spurious Emission Summary Data  
(B13\_10M+Low\_NB-lot(GB)+High\_NB-lot(IB)\_2C\_2T)**

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 274 of 367



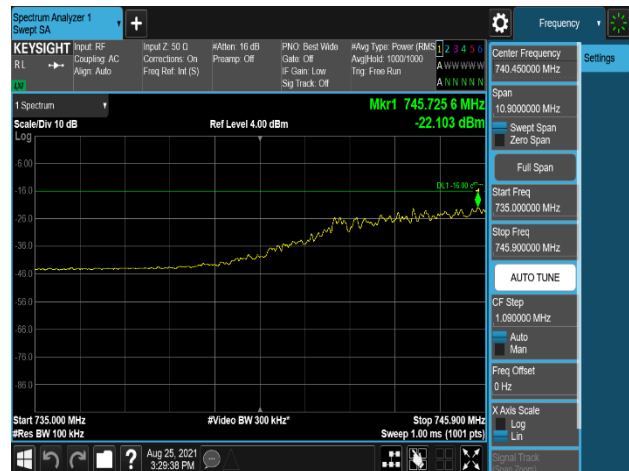
Plot 7-795. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_10M+Low\_NB-lot(GB)+High\_NB-lot(IB)\_2C\_QPSK, Port 1)



Plot 7-796. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_10M+Low\_NB-lot(GB)+High\_NB-lot(IB)\_2C\_QPSK, Port 1)



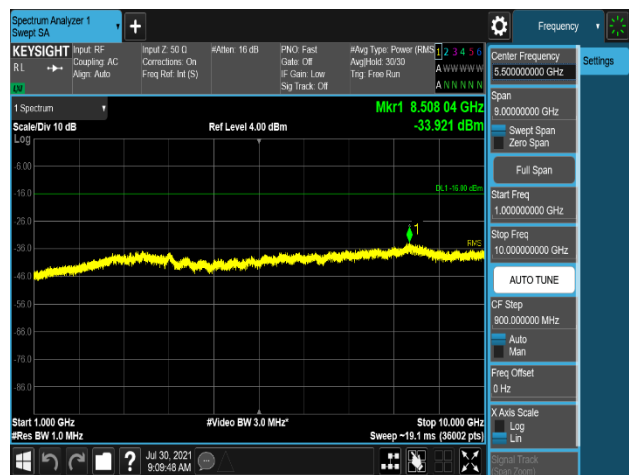
Plot 7-797. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_10M+Low\_NB-lot(GB)+High\_NB-lot(IB)\_2C\_QPSK, Port 0)



Plot 7-798. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_10M+Low\_NB-lot(GB)+High\_NB-lot(IB)\_2C\_QPSK, Port 0)



Plot 7-799. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_10M+Low\_NB-lot(GB)+High\_NB-lot(IB)\_2C\_QPSK, Port 1)



Plot 7-800. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_10M+Low\_NB-lot(GB)+High\_NB-lot(IB)\_2C\_QPSK, Port 1)

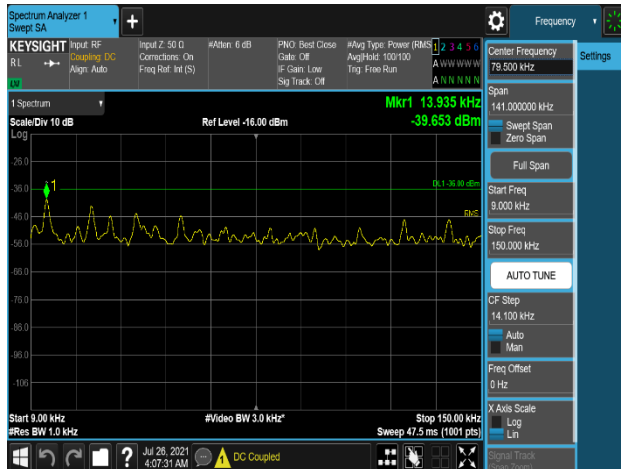
FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 275 of 367

Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-40.83	-36.01	-4.82
		150 kHz to 30 MHz	-40.30	-26.01	-14.29
		30 MHz to 735 MHz	<b>-43.57</b>	-16.01	-27.56
		735 MHz to 745.9 MHz	<b>-22.49</b>	-16.01	-6.48
		756.1 MHz to 1 GHz	-20.33	-16.01	-4.32
		1 GHz to 10 GHz	-34.79	-16.01	-18.78
	1	9 kHz to 150 kHz	<b>-39.65</b>	-36.01	-3.64
		150 kHz to 30 MHz	<b>-37.94</b>	-26.01	-11.93
		30 MHz to 735 MHz	-43.98	-16.01	-27.97
		735 MHz to 745.9 MHz	-23.58	-16.01	-7.57
		756.1 MHz to 1 GHz	<b>-19.11</b>	-16.01	-3.10
		1 GHz to 10 GHz	<b>-34.04</b>	-16.01	-18.03

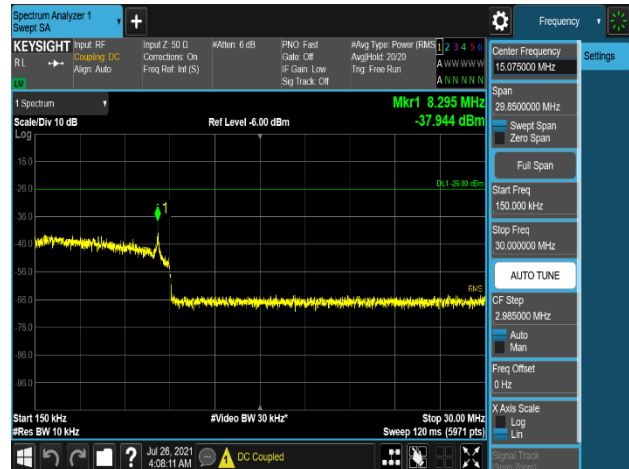
**Table 7-190. Conducted Spurious Emission Summary Data  
(B13\_10M+High\_NB-lot(GB)+Low\_NB-lot(IB)\_2C\_2T)**

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 276 of 367





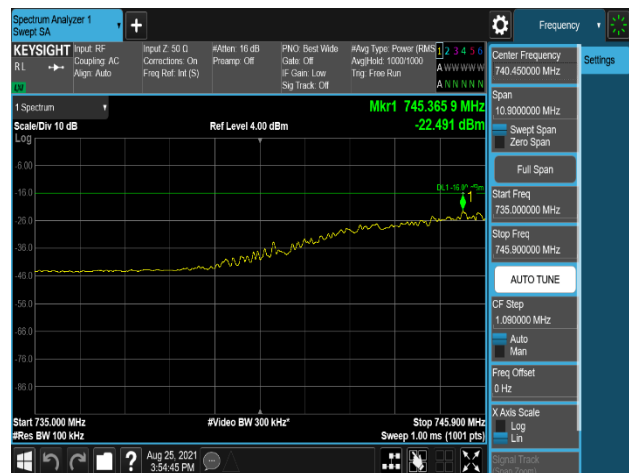
Plot 7-801. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_10M+High\_NB-lot(GB)+Low\_NB-lot(IB)\_2C\_QPSK, Port 1)



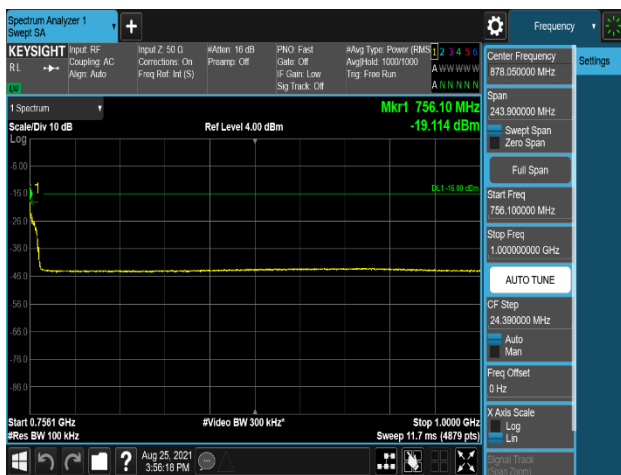
Plot 7-802. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_10M+High\_NB-lot(GB)+Low\_NB-lot(IB)\_2C\_QPSK, Port 1)



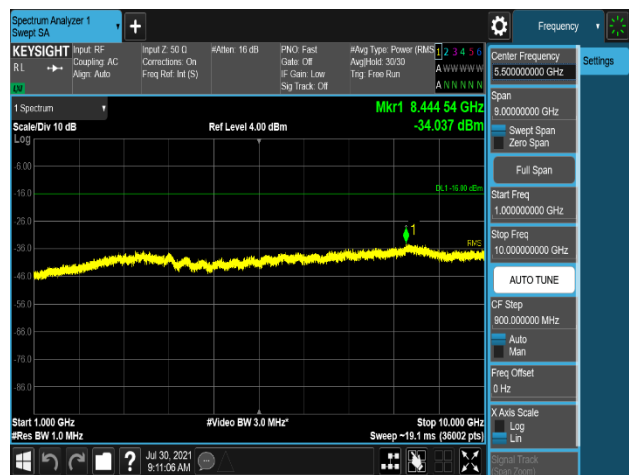
Plot 7-803. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_10M+High\_NB-lot(GB)+Low\_NB-lot(IB)\_2C\_QPSK, Port 0)



Plot 7-804. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_10M+High\_NB-lot(GB)+Low\_NB-lot(IB)\_2C\_QPSK, Port 0)



Plot 7-805. Conducted Spurious Emission Plot  
756.1 MHz to 1 GHz  
(B13\_10M+High\_NB-lot(GB)+Low\_NB-lot(IB)\_2C\_QPSK, Port 1)



Plot 7-806. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_10M+High\_NB-lot(GB)+Low\_NB-lot(IB)\_2C\_QPSK, Port 1)

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 277 of 367

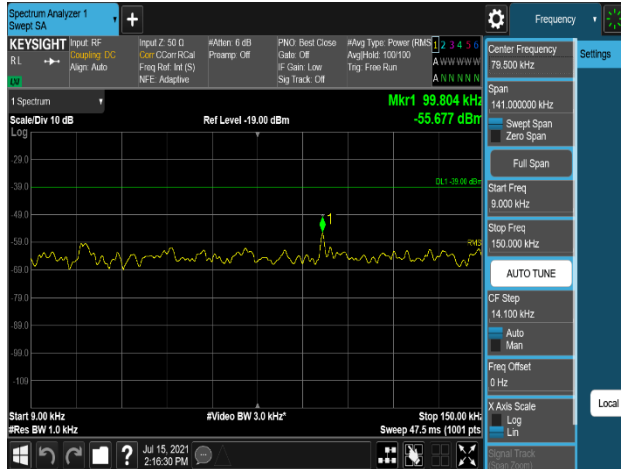
Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-59.13	-58.59	-58.65	-59.16	-39.02	-19.57
		150 kHz to 30 MHz	-51.65	-50.31	-50.62	-50.82	-29.02	-21.29
		30 MHz to 735 MHz	-52.61	-52.87	-53.32	-53.41	-19.02	-33.59
		735 MHz to 745.9 MHz	-29.64	-31.23	-31.98	-31.86	-19.02	-10.62
		756.1 MHz to 1 GHz	-35.80	-37.13	-36.92	-37.56	-19.02	-16.78
		1 GHz to 10 GHz	-35.05	-34.82	-35.06	-34.99	-19.02	-15.80
	1	9 kHz to 150 kHz	<b>-55.68</b>	-56.54	-57.06	-56.81	-39.02	-16.66
		150 kHz to 30 MHz	-51.45	-51.19	-52.28	-50.64	-29.02	-21.62
		30 MHz to 735 MHz	<b>-51.82</b>	-52.75	-53.45	-52.22	-19.02	-32.80
		735 MHz to 745.9 MHz	<b>-27.18</b>	-30.55	-31.69	-30.93	-19.02	-8.16
		756.1 MHz to 1 GHz	-35.81	-36.08	-36.45	-36.37	-19.02	-16.79
		1 GHz to 10 GHz	<b>-33.45</b>	-34.10	-33.75	-33.83	-19.02	-14.43
	2	9 kHz to 150 kHz	-59.07	-58.93	-58.98	-58.84	-39.02	-19.82
		150 kHz to 30 MHz	-50.69	-51.23	-50.96	-49.72	-29.02	-20.70
		30 MHz to 735 MHz	-52.63	-53.20	-53.93	-53.80	-19.02	-33.61
		735 MHz to 745.9 MHz	-28.13	-28.74	-29.58	-29.75	-19.02	-9.11
		756.1 MHz to 1 GHz	-33.21	-32.25	-35.97	-35.63	-19.02	-13.23
		1 GHz to 10 GHz	-34.52	-34.60	-34.61	-34.24	-19.02	-15.22
	3	9 kHz to 150 kHz	-56.88	-56.34	-56.75	-56.85	-39.02	-17.32
		150 kHz to 30 MHz	-51.13	-50.21	-50.24	-50.84	-29.02	-21.19
		30 MHz to 735 MHz	-53.02	-54.09	-53.07	-53.86	-19.02	-34.00
		735 MHz to 745.9 MHz	-28.38	-28.42	-29.44	-30.35	-19.02	-9.36
		756.1 MHz to 1 GHz	-32.05	-33.10	-34.13	-35.22	-19.02	-13.03
		1 GHz to 10 GHz	-36.25	-36.59	-36.10	-36.72	-19.02	-17.08
Middle	0	9 kHz to 150 kHz	-59.98	-59.82	-59.28	-59.23	-39.02	-20.21
		150 kHz to 30 MHz	-50.68	-51.53	-52.15	-50.80	-29.02	-21.66
		30 MHz to 735 MHz	-51.85	-53.10	-53.46	-52.30	-19.02	-32.83
		735 MHz to 745.9 MHz	-36.04	-36.21	-36.10	-36.44	-19.02	-17.02
		756.1 MHz to 1 GHz	-36.09	-34.79	-36.09	-36.53	-19.02	-15.77
		1 GHz to 10 GHz	-34.93	-34.98	-35.04	-34.98	-19.02	-15.91
	1	9 kHz to 150 kHz	-57.80	-57.06	-57.75	-58.07	-39.02	-18.04
		150 kHz to 30 MHz	-50.73	-50.91	-51.54	-50.06	-29.02	-21.04
		30 MHz to 735 MHz	-51.86	-53.11	-52.55	-51.97	-19.02	-32.84
		735 MHz to 745.9 MHz	-34.22	-35.92	-35.69	-35.95	-19.02	-15.20
		756.1 MHz to 1 GHz	-34.55	-34.63	-35.15	-35.32	-19.02	-15.53
		1 GHz to 10 GHz	-33.73	-34.20	-34.17	-33.76	-19.02	-14.71
			9 kHz to 150 kHz	-58.79	-59.39	-58.74	-59.09	-39.02

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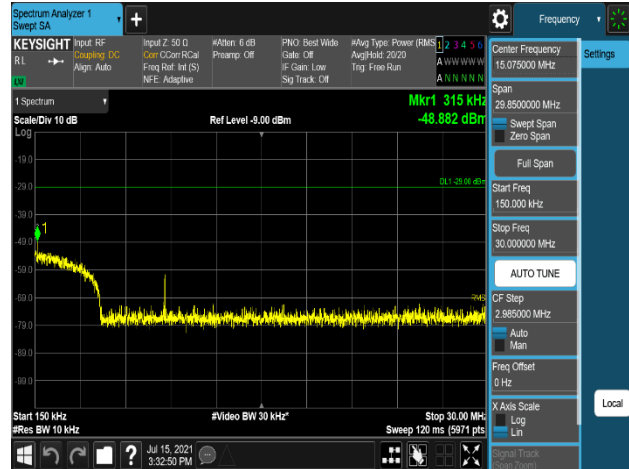
Middle	2	150 kHz to 30 MHz	<b>-48.88</b>	-50.56	-49.70	-50.56	-29.02	-19.86
		30 MHz to 735 MHz	-52.38	-53.01	-53.71	-53.49	-19.02	-33.36
		735 MHz to 745.9 MHz	-31.76	-31.99	-32.95	-32.31	-19.02	-12.74
		756.1 MHz to 1 GHz	-31.50	-32.32	-34.28	-32.58	-19.02	-12.48
		1 GHz to 10 GHz	-34.06	-34.60	-34.54	-34.60	-19.02	-15.04
	3	9 kHz to 150 kHz	-57.98	-57.30	-57.22	-57.81	-39.02	-18.20
		150 kHz to 30 MHz	-50.37	-49.77	-49.05	-51.17	-29.02	-20.03
		30 MHz to 735 MHz	-54.36	-53.60	-53.47	-52.95	-19.02	-33.93
		735 MHz to 745.9 MHz	-30.76	-30.49	-32.52	-33.73	-19.02	-11.47
		756.1 MHz to 1 GHz	-30.92	-30.32	-33.88	-33.32	-19.02	-11.30
High	0	9 kHz to 150 kHz	-59.25	-59.26	-59.00	-59.24	-39.02	-19.98
		150 kHz to 30 MHz	-51.64	-50.06	-50.65	-51.87	-29.02	-21.04
		30 MHz to 735 MHz	-52.86	-53.35	-53.45	-52.80	-19.02	-33.78
		735 MHz to 745.9 MHz	-36.70	-37.06	-37.21	-37.15	-19.02	-17.68
		756.1 MHz to 1 GHz	-24.88	-24.98	-25.21	-24.43	-19.02	-5.41
		1 GHz to 10 GHz	-35.29	-35.22	-35.09	-34.73	-19.02	-15.71
	1	9 kHz to 150 kHz	-57.55	-57.82	-57.57	-57.23	-39.02	-18.21
		150 kHz to 30 MHz	-50.33	-50.83	-51.66	-50.82	-29.02	-21.31
		30 MHz to 735 MHz	-53.27	-52.72	-53.54	-53.25	-19.02	-33.70
		735 MHz to 745.9 MHz	-36.75	-36.30	-36.62	-36.86	-19.02	-17.28
		756.1 MHz to 1 GHz	-23.91	-24.66	<b>-22.52</b>	-23.54	-19.02	-3.50
		1 GHz to 10 GHz	-33.54	-33.98	-33.55	-33.74	-19.02	-14.52
	2	9 kHz to 150 kHz	-58.78	-59.74	-59.56	-58.45	-39.02	-19.43
		150 kHz to 30 MHz	-51.05	-50.93	-50.20	-50.75	-29.02	-21.18
		30 MHz to 735 MHz	-53.84	-53.26	-52.80	-52.59	-19.02	-33.57
		735 MHz to 745.9 MHz	-35.39	-33.05	-32.89	-34.28	-19.02	-13.87
		756.1 MHz to 1 GHz	-24.27	-26.45	-23.49	-24.61	-19.02	-4.47
		1 GHz to 10 GHz	-34.46	-34.52	-34.40	-34.15	-19.02	-15.13
	3	9 kHz to 150 kHz	-57.21	-57.75	-57.05	-57.88	-39.02	-18.03
		150 kHz to 30 MHz	-50.77	-50.68	-50.94	-49.96	-29.02	-20.94
		30 MHz to 735 MHz	-52.84	-53.40	-53.58	-53.30	-19.02	-33.82
		735 MHz to 745.9 MHz	-33.00	-33.08	-34.36	-33.19	-19.02	-13.98
		756.1 MHz to 1 GHz	-23.35	-24.50	-23.04	-23.80	-19.02	-4.02
		1 GHz to 10 GHz	-36.83	-36.70	-36.78	-36.57	-19.02	-17.55

**Table 7-191. Conducted Spurious Emission Summary Data (B13\_5M\_1C\_4T)**

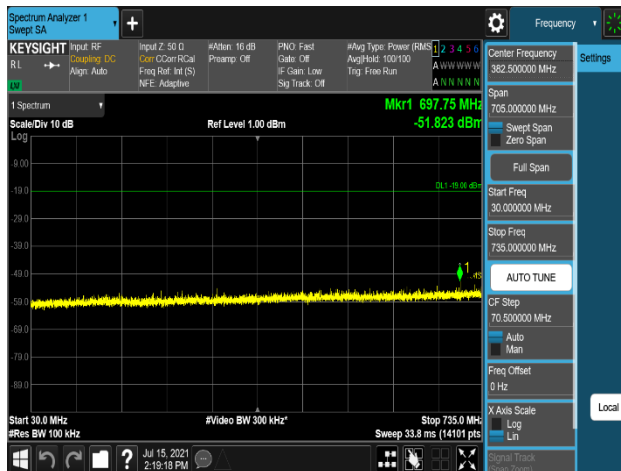
FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 279 of 367



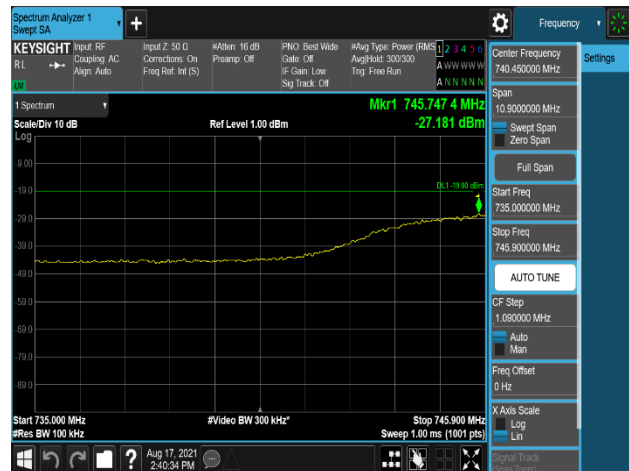
Plot 7-807. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B13\_5M\_1C\_QPSK - Low Channel, Port 1)



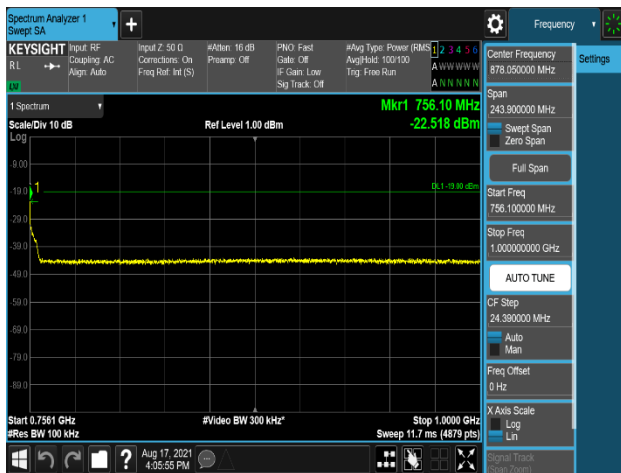
Plot 7-808. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B13\_5M\_1C\_QPSK - Middle Channel, Port 2)



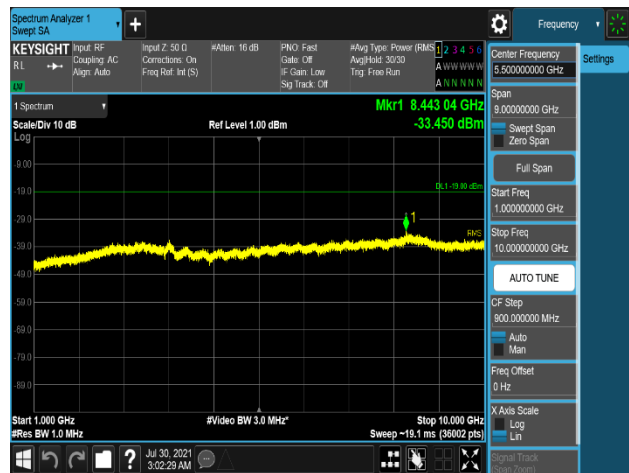
Plot 7-809. Conducted Spurious Emission Plot  
30 MHz to 735 MHz  
(B13\_5M\_1C\_QPSK - Low Channel, Port 1)



Plot 7-810. Conducted Spurious Emission Plot  
735 MHz to 745.9 MHz  
(B13\_5M\_1C\_QPSK - Low Channel, Port 1)



Plot 7-811. Conducted Spurious Emission Plot  
756.9 MHz to 1 GHz  
(B13\_5M\_1C\_64QAM - High Channel, Port 1)



Plot 7-812. Conducted Spurious Emission Plot  
1 GHz to 10 GHz  
(B13\_5M\_1C\_QPSK - Low Channel, Port 1)

FCC ID: A3LRF4440D-13A		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Middle	0	9 kHz to 150 kHz	-57.27	-57.26	-57.72	-57.40	-39.02	-18.24
		150 kHz to 30 MHz	-48.57	-48.46	-49.23	-48.09	-29.02	-19.07
		30 MHz to 735 MHz	-51.85	-51.60	-53.18	-52.15	-19.02	-32.58
		735 MHz to 745.9 MHz	-29.04	-28.06	-29.39	-27.96	-19.02	-8.94
		756.1 MHz to 1 GHz	-27.16	-26.71	-27.98	-27.37	-19.02	-7.69
		1 GHz to 10 GHz	-34.90	-35.03	-34.83	-34.85	-19.02	-15.81
	1	9 kHz to 150 kHz	-55.68	-56.16	-55.52	-55.84	-39.02	-16.50
		150 kHz to 30 MHz	-48.60	-48.63	-49.06	-48.12	-29.02	-19.10
		30 MHz to 735 MHz	-52.36	-52.39	-53.30	<b>-50.44</b>	-19.02	-31.42
		735 MHz to 745.9 MHz	-29.60	-28.42	-29.13	-27.74	-19.02	-8.72
		756.1 MHz to 1 GHz	-27.11	-26.72	-26.13	-26.78	-19.02	-7.11
		1 GHz to 10 GHz	-33.34	<b>-33.31</b>	-33.94	-33.91	-19.02	-14.29
	2	9 kHz to 150 kHz	-56.39	-56.60	-57.20	-57.38	-39.02	-17.37
		150 kHz to 30 MHz	-48.85	-47.71	-48.81	<b>-47.31</b>	-29.02	-18.29
		30 MHz to 735 MHz	-53.26	-53.18	-52.64	-52.06	-19.02	-33.04
		735 MHz to 745.9 MHz	-28.59	-28.96	-29.97	-29.18	-19.02	-9.57
		756.1 MHz to 1 GHz	-27.70	-27.27	-26.48	-27.31	-19.02	-7.46
		1 GHz to 10 GHz	-34.24	-34.17	-34.23	-33.89	-19.02	-14.87
	3	9 kHz to 150 kHz	-56.70	-56.51	-56.35	<b>-54.95</b>	-39.02	-15.93
		150 kHz to 30 MHz	-47.45	-47.59	-47.82	-48.08	-29.02	-18.43
		30 MHz to 735 MHz	-53.47	-51.90	-53.63	-53.47	-19.02	-32.88
		735 MHz to 745.9 MHz	-28.11	-28.46	<b>-27.48</b>	-28.30	-19.02	-8.46
		756.1 MHz to 1 GHz	-26.65	<b>-25.98</b>	-27.27	-26.56	-19.02	-6.96
		1 GHz to 10 GHz	-36.92	-36.45	-36.64	-36.74	-19.02	-17.43

**Table 7-192. Conducted Spurious Emission Summary Data (B13\_10M\_1C\_4T)**

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