



Plot 7-813. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B13_10M_1C_256QAM, Port 3)



Plot 7-814. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B13_10M_1C_256QAM, Port 2)



Plot 7-815. Conducted Spurious Emission Plot
30 MHz to 735 MHz
(B13_10M_1C_256QAM, Port 1)



Plot 7-816. Conducted Spurious Emission Plot
735 MHz to 745.9 MHz
(B13_10M_1C_64QAM, Port 3)



Plot 7-817. Conducted Spurious Emission Plot
756.1 MHz to 1 GHz
(B13_10M_1C_16QAM, Port 3)



Plot 7-818. Conducted Spurious Emission Plot
1 GHz to 10 GHz
(B13_10M_1C_16QAM, 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 282 of 367

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Middle	0	9 kHz to 150 kHz	-53.46	-53.23	-53.86	-53.59	-39.02	-14.21
		150 kHz to 30 MHz	-44.52	-44.11	-44.78	-42.77	-29.02	-13.75
		30 MHz to 735 MHz	-44.18	-44.29	-44.30	-44.20	-19.02	-25.16
		735 MHz to 745.9 MHz	-27.56	-28.03	-27.53	-27.96	-19.02	-8.51
		756.1 MHz to 1 GHz	-23.87	-22.99	-23.36	-23.08	-19.02	-3.97
		1 GHz to 10 GHz	-34.68	-34.92	-34.95	-35.03	-19.02	-15.66
	1	9 kHz to 150 kHz	-52.32	-51.73	-52.68	-52.75	-39.02	-12.71
		150 kHz to 30 MHz	-43.40	-41.93	-43.68	-42.76	-29.02	-12.91
		30 MHz to 735 MHz	-44.09	-44.18	-44.15	-44.20	-19.02	-25.07
		735 MHz to 745.9 MHz	-28.35	-28.91	-28.63	-28.50	-19.02	-9.33
		756.1 MHz to 1 GHz	-23.85	-23.51	-23.62	-22.85	-19.02	-3.83
		1 GHz to 10 GHz	-33.72	-33.65	-34.11	-33.54	-19.02	-14.52
	2	9 kHz to 150 kHz	-53.50	-53.12	-53.74	-54.12	-39.02	-14.10
		150 kHz to 30 MHz	-44.66	-44.49	-44.91	-44.74	-29.02	-15.47
		30 MHz to 735 MHz	-44.82	-44.75	-44.66	-44.75	-19.02	-25.64
		735 MHz to 745.9 MHz	-28.21	-27.81	-26.84	-28.18	-19.02	-7.82
		756.1 MHz to 1 GHz	-23.55	-24.22	-23.03	-22.40	-19.02	-3.38
		1 GHz to 10 GHz	-33.74	-34.00	-33.89	-34.02	-19.02	-14.72
	3	9 kHz to 150 kHz	-52.77	-52.18	-52.70	-52.95	-39.02	-13.16
		150 kHz to 30 MHz	-43.77	-41.62	-44.11	-44.25	-29.02	-12.60
		30 MHz to 735 MHz	-44.65	-44.68	-45.09	-44.67	-19.02	-25.63
		735 MHz to 745.9 MHz	-28.32	-27.15	-28.27	-26.96	-19.02	-7.94
		756.1 MHz to 1 GHz	-23.17	-24.71	-22.44	-22.86	-19.02	-3.42
		1 GHz to 10 GHz	-36.71	-36.41	-36.52	-36.50	-19.02	-17.39

Table 7-193. Conducted Spurious Emission Summary Data (B13_5M+5M_2C_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 283 of 367	



Plot 7-819. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B13_5M+5M_2C_16QAM, Port 1)



Plot 7-820. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B13_5M+5M_2C_16QAM, Port 3)



Plot 7-821. Conducted Spurious Emission Plot
30 MHz to 735 MHz
(B13_5M+5M_2C_QPSK, Port 1)



Plot 7-822. Conducted Spurious Emission Plot
735 MHz to 745.9 MHz
(B13_5M+5M_2C_64QAM, Port 2)



Plot 7-823. Conducted Spurious Emission Plot
756.1 MHz to 1 GHz
(B13_5M+5M_2C_256QAM, Port 2)



Plot 7-824. Conducted Spurious Emission Plot
1 GHz to 10 GHz
(B13_5M+5M_2C_256QAM, 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 284 of 367

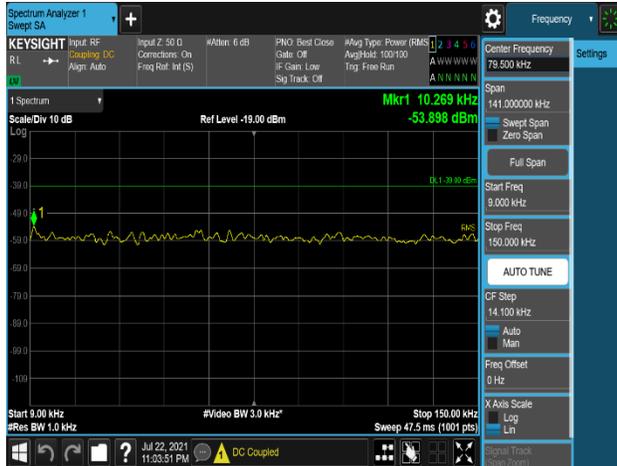
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	9 kHz to 150 kHz	-55.49	-39.02	-16.47
		150 kHz to 30 MHz	-48.09	-29.02	-19.07
		30 MHz to 735 MHz	-44.61	-19.02	-25.59
		735 MHz to 745.9 MHz	-31.62	-19.02	-12.60
		756.1 MHz to 1 GHz	-37.50	-19.02	-18.48
		1 GHz to 10 GHz	-34.92	-19.02	-15.90
	1	9 kHz to 150 kHz	-55.07	-39.02	-16.05
		150 kHz to 30 MHz	-48.15	-29.02	-19.13
		30 MHz to 735 MHz	-44.38	-19.02	-25.36
		735 MHz to 745.9 MHz	-30.93	-19.02	-11.91
		756.1 MHz to 1 GHz	-36.83	-19.02	-17.81
		1 GHz to 10 GHz	-33.91	-19.02	-14.89
	2	9 kHz to 150 kHz	-53.90	-39.02	-14.88
		150 kHz to 30 MHz	-46.92	-29.02	-17.90
		30 MHz to 735 MHz	-44.84	-19.02	-25.82
		735 MHz to 745.9 MHz	-28.09	-19.02	-9.07
		756.1 MHz to 1 GHz	-32.91	-19.02	-13.89
		1 GHz to 10 GHz	-33.90	-19.02	-14.88
	3	9 kHz to 150 kHz	-54.69	-39.02	-15.67
		150 kHz to 30 MHz	-47.08	-29.02	-18.06
		30 MHz to 735 MHz	-45.09	-19.02	-26.07
		735 MHz to 745.9 MHz	-29.39	-19.02	-10.37
		756.1 MHz to 1 GHz	-34.26	-19.02	-15.24
		1 GHz to 10 GHz	-36.37	-19.02	-17.35
Middle	0	9 kHz to 150 kHz	-55.05	-39.02	-16.03
		150 kHz to 30 MHz	-47.81	-29.02	-18.79
		30 MHz to 735 MHz	-44.53	-19.02	-25.51
		735 MHz to 745.9 MHz	-38.19	-19.02	-19.17
		756.1 MHz to 1 GHz	-37.65	-19.02	-18.63
		1 GHz to 10 GHz	-34.73	-19.02	-15.71
	1	9 kHz to 150 kHz	-55.15	-39.02	-16.13
		150 kHz to 30 MHz	-47.36	-29.02	-18.34
		30 MHz to 735 MHz	-44.50	-19.02	-25.48
		735 MHz to 745.9 MHz	-37.09	-19.02	-18.07
		756.1 MHz to 1 GHz	-38.01	-19.02	-18.99
		1 GHz to 10 GHz	-33.73	-19.02	-14.71
			9 kHz to 150 kHz	-54.89	-39.02

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 285 of 367	

Middle	2	150 kHz to 30 MHz	-46.66	-29.02	-17.64
		30 MHz to 735 MHz	-44.58	-19.02	-25.56
		735 MHz to 745.9 MHz	-34.76	-19.02	-15.74
		756.1 MHz to 1 GHz	-38.89	-19.02	-19.87
		1 GHz to 10 GHz	-34.77	-19.02	-15.75
	3	9 kHz to 150 kHz	-53.91	-39.02	-14.89
		150 kHz to 30 MHz	-46.29	-29.02	-17.27
		30 MHz to 735 MHz	-44.88	-19.02	-25.86
		735 MHz to 745.9 MHz	-35.34	-19.02	-16.32
		756.1 MHz to 1 GHz	-39.42	-19.02	-20.40
		1 GHz to 10 GHz	-36.53	-19.02	-17.51
High	0	9 kHz to 150 kHz	-55.53	-39.02	-16.51
		150 kHz to 30 MHz	-47.16	-29.02	-18.14
		30 MHz to 735 MHz	-44.49	-19.02	-25.47
		735 MHz to 745.9 MHz	-36.94	-19.02	-17.92
		756.1 MHz to 1 GHz	-24.88	-19.02	-5.86
		1 GHz to 10 GHz	-35.10	-19.02	-16.08
	1	9 kHz to 150 kHz	-55.43	-39.02	-16.41
		150 kHz to 30 MHz	-47.93	-29.02	-18.91
		30 MHz to 735 MHz	-44.35	-19.02	-25.33
		735 MHz to 745.9 MHz	-36.51	-19.02	-17.49
		756.1 MHz to 1 GHz	-24.04	-19.02	-5.02
		1 GHz to 10 GHz	-34.10	-19.02	-15.08
	2	9 kHz to 150 kHz	-54.92	-39.02	-15.90
		150 kHz to 30 MHz	-47.30	-29.02	-18.28
		30 MHz to 735 MHz	-44.81	-19.02	-25.79
		735 MHz to 745.9 MHz	-33.04	-19.02	-14.02
		756.1 MHz to 1 GHz	-22.83	-19.02	-3.81
		1 GHz to 10 GHz	-34.10	-19.02	-15.08
	3	9 kHz to 150 kHz	-54.21	-39.02	-15.19
		150 kHz to 30 MHz	-46.43	-29.02	-17.41
		30 MHz to 735 MHz	-44.58	-19.02	-25.56
		735 MHz to 745.9 MHz	-31.95	-19.02	-12.93
		756.1 MHz to 1 GHz	-22.90	-19.02	-3.88
		1 GHz to 10 GHz	-36.64	-19.02	-17.62

Table 7-194. Conducted Spurious Emission Summary Data (B13_5M+NB-IoT(IB))_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 286 of 367	



Plot 7-825. Conducted Spurious Emission Plot
 9 kHz to 150 kHz
 (B13_5M+NB-lot(IB)_1C_QPSK - Low Channel, Port 2)



Plot 7-826. Conducted Spurious Emission Plot
 150 kHz to 30 MHz
 (B13_5M+NB-lot(IB)_1C_QPSK - Middle Channel, Port 3)



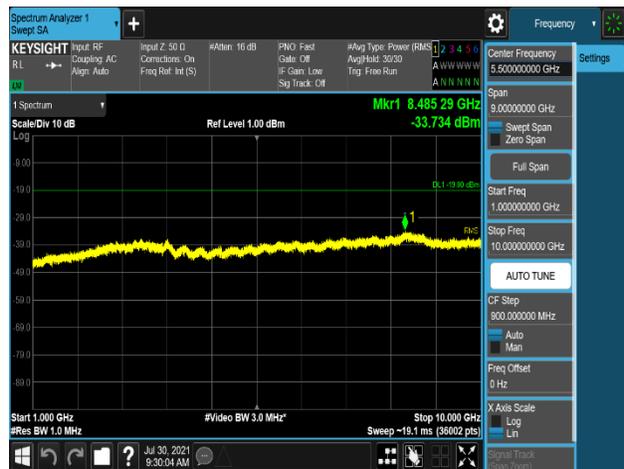
Plot 7-827. Conducted Spurious Emission Plot
 30 MHz to 735 MHz
 (B13_5M+NB-lot(IB)_1C_QPSK - High Channel, Port 1)



Plot 7-828. Conducted Spurious Emission Plot
 735 MHz to 745.9 MHz
 (B13_5M+NB-lot(IB)_1C_QPSK - Low Channel, Port 2)



Plot 7-829. Conducted Spurious Emission Plot
 756.1 MHz to 1 GHz
 (B13_5M+NB-lot(IB)_1C_QPSK - High Channel, Port 2)



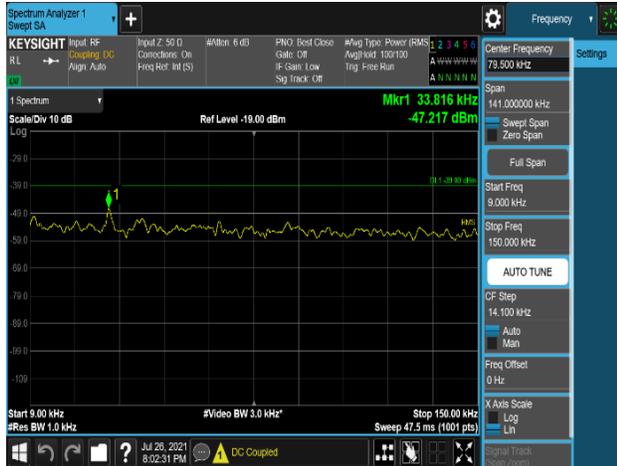
Plot 7-830. Conducted Spurious Emission Plot
 1 GHz to 10 GHz
 (B13_5M+NB-lot(IB)_1C_QPSK - Middle Channel, Port 1)

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 287 of 367

Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-47.95	-39.02	-8.93
		150 kHz to 30 MHz	-36.22	-29.02	-7.20
		30 MHz to 735 MHz	-44.13	-19.02	-25.11
		735 MHz to 745.9 MHz	-27.27	-19.02	-8.25
		756.1 MHz to 1 GHz	-22.43	-19.02	-3.41
		1 GHz to 10 GHz	-34.89	-19.02	-15.87
	1	9 kHz to 150 kHz	-47.71	-39.02	-8.69
		150 kHz to 30 MHz	-35.56	-29.02	-6.54
		30 MHz to 735 MHz	-44.31	-19.02	-25.29
		735 MHz to 745.9 MHz	-27.66	-19.02	-8.64
		756.1 MHz to 1 GHz	-21.25	-19.02	-2.23
		1 GHz to 10 GHz	-33.53	-19.02	-14.51
	2	9 kHz to 150 kHz	-49.19	-39.02	-10.17
		150 kHz to 30 MHz	-36.49	-29.02	-7.47
		30 MHz to 735 MHz	-43.39	-19.02	-24.37
		735 MHz to 745.9 MHz	-23.69	-19.02	-4.67
		756.1 MHz to 1 GHz	-21.18	-19.02	-2.16
		1 GHz to 10 GHz	-34.10	-19.02	-15.08
	3	9 kHz to 150 kHz	-47.22	-39.02	-8.20
		150 kHz to 30 MHz	-34.93	-29.02	-5.91
		30 MHz to 735 MHz	-44.71	-19.02	-25.69
		735 MHz to 745.9 MHz	-23.52	-19.02	-4.50
		756.1 MHz to 1 GHz	-22.53	-19.02	-3.51
		1 GHz to 10 GHz	-36.39	-19.02	-17.37

Table 7-195. Conducted Spurious Emission Summary Data (B13_10M+NB-IoT(GB))_2C_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 288 of 367	



Plot 7-831. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B13_10M+NB-IoT(GB)_2C_QPSK, Port 3)



Plot 7-832. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B13_10M+NB-IoT(GB)_2C_QPSK, Port 3)



Plot 7-833. Conducted Spurious Emission Plot
30 MHz to 735 MHz
(B13_10M+NB-IoT(GB)_2C_QPSK, Port 2)



Plot 7-834. Conducted Spurious Emission Plot
735 MHz to 745.9 MHz
(B13_10M+NB-IoT(GB)_2C_QPSK, Port 3)



Plot 7-835. Conducted Spurious Emission Plot
756.1 MHz to 1 GHz
(B13_10M+NB-IoT(GB)_2C_QPSK, Port 2)



Plot 7-836. Conducted Spurious Emission Plot
1 GHz to 10 GHz
(B13_10M+NB-IoT(GB)_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 289 of 367

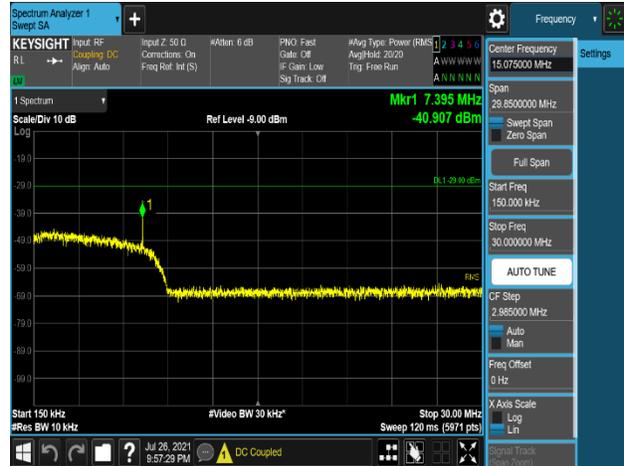
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-53.10	-39.02	-14.08
		150 kHz to 30 MHz	-42.97	-29.02	-13.95
		30 MHz to 735 MHz	-43.23	-19.02	-24.21
		735 MHz to 745.9 MHz	-29.09	-19.02	-10.07
		756.1 MHz to 1 GHz	-27.02	-19.02	-8.00
		1 GHz to 10 GHz	-35.03	-19.02	-16.01
	1	9 kHz to 150 kHz	-52.56	-39.02	-13.54
		150 kHz to 30 MHz	-40.91	-29.02	-11.89
		30 MHz to 735 MHz	-42.81	-19.02	-23.79
		735 MHz to 745.9 MHz	-28.86	-19.02	-9.84
		756.1 MHz to 1 GHz	-27.19	-19.02	-8.17
		1 GHz to 10 GHz	-33.94	-19.02	-14.92
	2	9 kHz to 150 kHz	-53.80	-39.02	-14.78
		150 kHz to 30 MHz	-42.05	-29.02	-13.03
		30 MHz to 735 MHz	-43.65	-19.02	-24.63
		735 MHz to 745.9 MHz	-29.80	-19.02	-10.78
		756.1 MHz to 1 GHz	-28.02	-19.02	-9.00
		1 GHz to 10 GHz	-34.10	-19.02	-15.08
	3	9 kHz to 150 kHz	-53.05	-39.02	-14.03
		150 kHz to 30 MHz	-41.84	-29.02	-12.82
		30 MHz to 735 MHz	-43.60	-19.02	-24.58
		735 MHz to 745.9 MHz	-29.25	-19.02	-10.23
		756.1 MHz to 1 GHz	-26.92	-19.02	-7.90
		1 GHz to 10 GHz	-36.64	-19.02	-17.62

**Table 7-196. Conducted Spurious Emission Summary Data
(B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_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 290 of 367



Plot 7-837. Conducted Spurious Emission Plot
 9 kHz to 150 kHz
 (B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 1)



Plot 7-838. Conducted Spurious Emission Plot
 150 kHz to 30 MHz
 (B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 1)



Plot 7-839. Conducted Spurious Emission Plot
 30 MHz to 735 MHz
 (B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 1)



Plot 7-840. 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 7-841. Conducted Spurious Emission Plot
 756.1 MHz to 1 GHz
 (B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 3)



Plot 7-842. 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 291 of 367

Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-51.11	-39.02	-12.09
		150 kHz to 30 MHz	-42.06	-29.02	-13.04
		30 MHz to 735 MHz	-44.12	-19.02	-25.10
		735 MHz to 745.9 MHz	-27.62	-19.02	-8.60
		756.1 MHz to 1 GHz	-27.24	-19.02	-8.22
		1 GHz to 10 GHz	-34.94	-19.02	-15.92
	1	9 kHz to 150 kHz	-51.20	-39.02	-12.18
		150 kHz to 30 MHz	-39.98	-29.02	-10.96
		30 MHz to 735 MHz	-44.70	-19.02	-25.68
		735 MHz to 745.9 MHz	-28.89	-19.02	-9.87
		756.1 MHz to 1 GHz	-27.35	-19.02	-8.33
		1 GHz to 10 GHz	-33.98	-19.02	-14.96
	2	9 kHz to 150 kHz	-53.27	-39.02	-14.25
		150 kHz to 30 MHz	-41.35	-29.02	-12.33
		30 MHz to 735 MHz	-44.57	-19.02	-25.55
		735 MHz to 745.9 MHz	-30.14	-19.02	-11.12
		756.1 MHz to 1 GHz	-27.60	-19.02	-8.58
		1 GHz to 10 GHz	-33.94	-19.02	-14.92
	3	9 kHz to 150 kHz	-50.31	-39.02	-11.29
		150 kHz to 30 MHz	-40.23	-29.02	-11.21
		30 MHz to 735 MHz	-45.05	-19.02	-26.03
		735 MHz to 745.9 MHz	-28.86	-19.02	-9.84
		756.1 MHz to 1 GHz	-26.72	-19.02	-7.70
		1 GHz to 10 GHz	-36.07	-19.02	-17.05

**Table 7-197. Conducted Spurious Emission Summary Data
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_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 292 of 367	



Plot 7-843. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_QPSK, Port 3)



Plot 7-844. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_QPSK, Port 1)



Plot 7-845. Conducted Spurious Emission Plot
30 MHz to 735 MHz
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_QPSK, Port 0)



Plot 7-846. 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 7-847. Conducted Spurious Emission Plot
756.1 MHz to 1 GHz
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_QPSK, Port 3)



Plot 7-848. Conducted Spurious Emission Plot
1 GHz to 10 GHz
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_QPSK, Port 2)

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 293 of 367

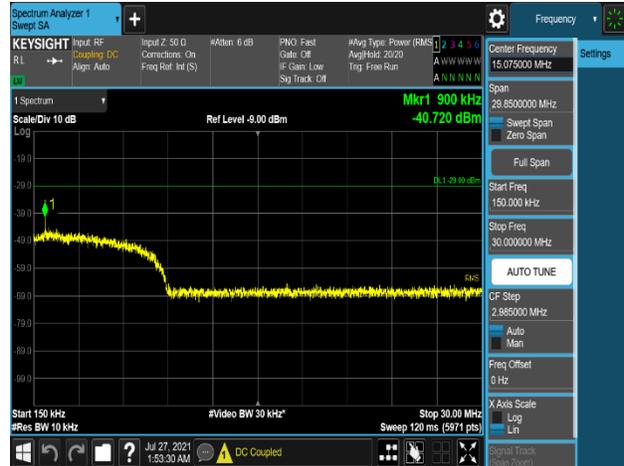
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-51.44	-39.02	-12.42
		150 kHz to 30 MHz	-43.16	-29.02	-14.14
		30 MHz to 735 MHz	-44.36	-19.02	-25.34
		735 MHz to 745.9 MHz	-28.66	-19.02	-9.64
		756.1 MHz to 1 GHz	-27.61	-19.02	-8.59
		1 GHz to 10 GHz	-35.09	-19.02	-16.07
	1	9 kHz to 150 kHz	-51.49	-39.02	-12.47
		150 kHz to 30 MHz	-41.50	-29.02	-12.48
		30 MHz to 735 MHz	-44.76	-19.02	-25.74
		735 MHz to 745.9 MHz	-29.83	-19.02	-10.81
		756.1 MHz to 1 GHz	-25.93	-19.02	-6.91
		1 GHz to 10 GHz	-34.12	-19.02	-15.10
	2	9 kHz to 150 kHz	-52.49	-39.02	-13.47
		150 kHz to 30 MHz	-43.81	-29.02	-14.79
		30 MHz to 735 MHz	-44.17	-19.02	-25.15
		735 MHz to 745.9 MHz	-29.30	-19.02	-10.28
		756.1 MHz to 1 GHz	-27.60	-19.02	-8.58
		1 GHz to 10 GHz	-34.13	-19.02	-15.11
	3	9 kHz to 150 kHz	-52.86	-39.02	-13.84
		150 kHz to 30 MHz	-40.72	-29.02	-11.70
		30 MHz to 735 MHz	-45.06	-19.02	-26.04
		735 MHz to 745.9 MHz	-28.22	-19.02	-9.20
		756.1 MHz to 1 GHz	-27.07	-19.02	-8.05
		1 GHz to 10 GHz	-36.55	-19.02	-17.53

**Table 7-198. Conducted Spurious Emission Summary Data
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_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 294 of 367	



Plot 7-849. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 0)



Plot 7-850. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 3)



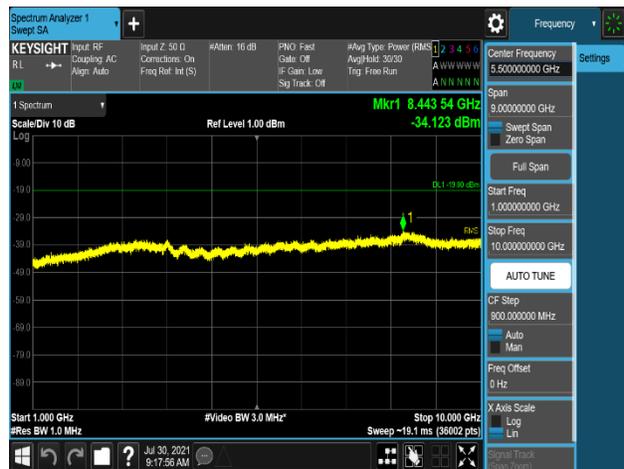
Plot 7-851. Conducted Spurious Emission Plot
30 MHz to 735 MHz
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 2)



Plot 7-852. Conducted Spurious Emission Plot
735 MHz to 745.9 MHz
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 3)



Plot 7-853. Conducted Spurious Emission Plot
756.1 MHz to 1 GHz
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 1)



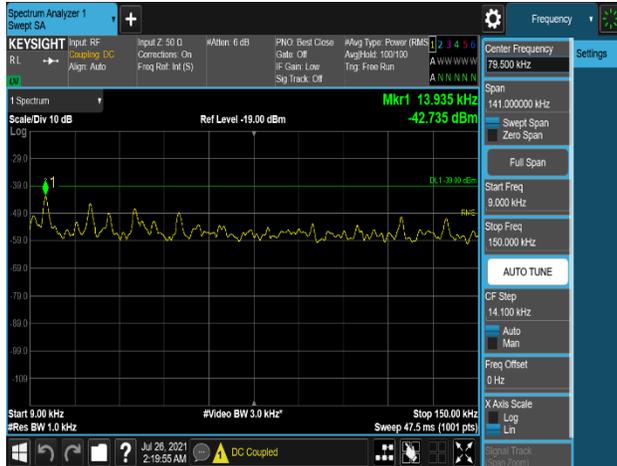
Plot 7-854. Conducted Spurious Emission Plot
1 GHz to 10 GHz
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK, Port 1)

FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21070501R2-R1	Test Dates: 07/09/2021 - 08/25/2021	EUT Type: RRU (RF4440d)		Page 295 of 367

Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-43.25	-39.02	-4.23
		150 kHz to 30 MHz	-42.32	-29.02	-13.30
		30 MHz to 735 MHz	-43.38	-19.02	-24.36
		735 MHz to 745.9 MHz	-26.27	-19.02	-7.25
		756.1 MHz to 1 GHz	-26.60	-19.02	-7.58
		1 GHz to 10 GHz	-34.75	-19.02	-15.73
	1	9 kHz to 150 kHz	-42.95	-39.02	-3.93
		150 kHz to 30 MHz	-43.14	-29.02	-14.12
		30 MHz to 735 MHz	-43.95	-19.02	-24.93
		735 MHz to 745.9 MHz	-27.18	-19.02	-8.16
		756.1 MHz to 1 GHz	-25.75	-19.02	-6.73
		1 GHz to 10 GHz	-33.76	-19.02	-14.74
	2	9 kHz to 150 kHz	-44.43	-39.02	-5.41
		150 kHz to 30 MHz	-45.30	-29.02	-16.28
		30 MHz to 735 MHz	-44.01	-19.02	-24.99
		735 MHz to 745.9 MHz	-23.83	-19.02	-4.81
		756.1 MHz to 1 GHz	-23.02	-19.02	-4.00
		1 GHz to 10 GHz	-34.22	-19.02	-15.20
	3	9 kHz to 150 kHz	-42.74	-39.02	-3.72
		150 kHz to 30 MHz	-42.80	-29.02	-13.78
		30 MHz to 735 MHz	-44.23	-19.02	-25.21
		735 MHz to 745.9 MHz	-23.99	-19.02	-4.97
		756.1 MHz to 1 GHz	-22.41	-19.02	-3.39
		1 GHz to 10 GHz	-36.30	-19.02	-17.28

**Table 7-199. Conducted Spurious Emission Summary Data
(B13_10M+Low_NB-lot(GB)+High_NB-lot(IB)_2C_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 296 of 367



Plot 7-855. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B13_10M+Low_NB-lot(GB)+High_NB-lot(IB)_2C_QPSK, Port 3)



Plot 7-856. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B13_10M+Low_NB-lot(GB)+High_NB-lot(IB)_2C_QPSK, Port 0)



Plot 7-857. Conducted Spurious Emission Plot
30 MHz to 735 MHz
(B13_10M+Low_NB-lot(GB)+High_NB-lot(IB)_2C_QPSK, Port 0)



Plot 7-858. Conducted Spurious Emission Plot
735 MHz to 745.9 MHz
(B13_10M+Low_NB-lot(GB)+High_NB-lot(IB)_2C_QPSK, Port 2)



Plot 7-859. Conducted Spurious Emission Plot
756.1 MHz to 1 GHz
(B13_10M+Low_NB-lot(GB)+High_NB-lot(IB)_2C_QPSK, Port 3)



Plot 7-860. 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 297 of 367

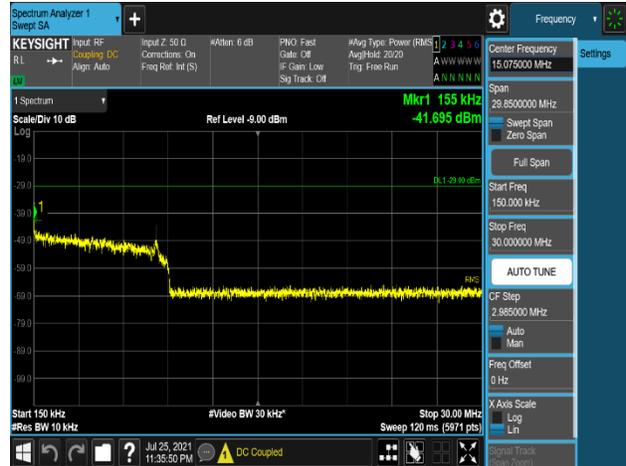
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	0	9 kHz to 150 kHz	-43.36	-39.02	-4.34
		150 kHz to 30 MHz	-41.70	-29.02	-12.68
		30 MHz to 735 MHz	-43.98	-19.02	-24.96
		735 MHz to 745.9 MHz	-28.15	-19.02	-9.13
		756.1 MHz to 1 GHz	-23.11	-19.02	-4.09
		1 GHz to 10 GHz	-34.90	-19.02	-15.88
	1	9 kHz to 150 kHz	-42.75	-39.02	-3.73
		150 kHz to 30 MHz	-41.91	-29.02	-12.89
		30 MHz to 735 MHz	-43.37	-19.02	-24.35
		735 MHz to 745.9 MHz	-29.08	-19.02	-10.06
		756.1 MHz to 1 GHz	-21.58	-19.02	-2.56
		1 GHz to 10 GHz	-33.97	-19.02	-14.95
	2	9 kHz to 150 kHz	-44.12	-39.02	-5.10
		150 kHz to 30 MHz	-44.51	-29.02	-15.49
		30 MHz to 735 MHz	-44.28	-19.02	-25.26
		735 MHz to 745.9 MHz	-24.69	-19.02	-5.67
		756.1 MHz to 1 GHz	-22.90	-19.02	-3.88
		1 GHz to 10 GHz	-34.51	-19.02	-15.49
	3	9 kHz to 150 kHz	-42.40	-39.02	-3.38
		150 kHz to 30 MHz	-42.69	-29.02	-13.67
		30 MHz to 735 MHz	-44.32	-19.02	-25.30
		735 MHz to 745.9 MHz	-26.63	-19.02	-7.61
		756.1 MHz to 1 GHz	-23.36	-19.02	-4.34
		1 GHz to 10 GHz	-36.46	-19.02	-17.44

**Table 7-200. Conducted Spurious Emission Summary Data
(B13_10M+High_NB-lot(GB)+Low_NB-lot(IB)_2C_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 298 of 367	



Plot 7-861. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B13_10M+High_NB-lot(GB)+Low_NB-lot(IB)_2C_QPSK, Port 3)



Plot 7-862. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B13_10M+High_NB-lot(GB)+Low_NB-lot(IB)_2C_QPSK, Port 0)



Plot 7-863. Conducted Spurious Emission Plot
30 MHz to 735 MHz
(B13_10M+High_NB-lot(GB)+Low_NB-lot(IB)_2C_QPSK, Port 1)



Plot 7-864. Conducted Spurious Emission Plot
735 MHz to 745.9 MHz
(B13_10M+High_NB-lot(GB)+Low_NB-lot(IB)_2C_QPSK, Port 2)



Plot 7-865. 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 7-866. 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 299 of 367

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	1559 to 1610	-70.46	-70.41	-70.45	-70.37	-53.01
	1		-70.50	-70.57	-70.37	-70.53	-53.01
High	0		-70.37	-70.48	-70.43	-70.50	-53.01
	1		-70.42	-70.53	-70.49	-70.51	-53.01
High	0		-70.43	-70.38	-70.44	-70.34	-53.01
	1		-70.48	-70.49	-70.49	-70.45	-53.01

Table 7-201. Conducted Spurious Emission Summary Data (B13_5M_1C_2T)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	1559 to 1610	-70.38	-70.43	-70.40	-70.34	-53.01
	1		-70.45	-70.43	-70.39	-70.49	-53.01

Table 7-202. Conducted Spurious Emission Summary Data (B13_10M_1C_2T)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	1559 to 1610	-70.40	-70.49	-70.49	-70.45	-53.01
	1		-71.27	-71.31	-71.34	-71.29	-53.01

Table 7-203. 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 300 of 367

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.39	-53.01
	1		-70.36	-53.01
Middle	0		-70.37	-53.01
	1		-70.33	-53.01
High	0		-70.33	-53.01
	1		-70.43	-53.01

Table 7-204. Conducted Spurious Emission Summary Data (B13_5M+NB-lot(IB)_2C_2T)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.43	-53.01
	1		-70.49	-53.01

Table 7-205. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C_2T)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.44	-53.01
	1		-70.45	-53.01

Table 7-206. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_2T)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.45	-53.01
	1		-70.56	-53.01

Table 7-207. Conducted Spurious Emission Summary Data (B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_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 301 of 367

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.39	-53.01
	1		-70.51	-53.01

Table 7-208. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(GB)+High_NB-lot(GB)_3C_2T)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.42	-53.01
	1		-70.53	-53.01

Table 7-209. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(GB)+High_NB-lot(GB)_2C_2T)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.39	-53.01
	1		-70.52	-53.01

Table 7-210. Conducted Spurious Emission Summary Data (B13_10M+High_NB-lot(GB)+Low_NB-lot(GB)_2C_2T)



Plot 7-867. Conducted Spurious Emission Plot 1559 MHz to 1610 MHz (B13_5M+NB-lot(GB)_1C_2T_QPSK – Middle channel - Port 1)



Plot 7-868. Conducted Spurious Emission Plot 1559 MHz to 1610 MHz (B13_5M+NB-lot(GB)_1C_2T_QPSK – High channel - Port 0)

Note: The 1559 to 1610 MHz spurious emission of All Configurations are attenuated more than 12 dB below permissible value and No peak found.

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 302 of 367

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	1559 to 1610	-70.43	-70.42	-70.49	-70.49	-56.02
	1		-70.42	-70.53	-70.49	-70.51	-56.02
	2		-71.07	-71.06	-71.04	-71.10	-56.02
	3		-71.30	-71.19	-71.20	-71.18	-56.02
High	0		-70.41	-70.41	-70.43	-70.47	-56.02
	1		-70.47	-70.54	-70.51	-70.48	-56.02
	2		-71.05	-70.98	-71.14	-71.09	-56.02
	3		-71.19	-71.18	-71.26	-71.27	-56.02
High	0		-70.45	-70.44	-70.36	-70.47	-56.02
	1		-70.55	-70.42	-70.49	-70.49	-56.02
	2		-70.97	-71.01	-71.08	-70.98	-56.02
	3		-71.18	-71.18	-71.23	-71.12	-56.02

Table 7-211. Conducted Spurious Emission Summary Data (B13_5M_1C)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	1559 to 1610	-70.43	-70.50	-70.51	-70.37	-56.02
	1		-70.48	-70.47	-70.50	-70.51	-56.02
	2		-71.09	-71.15	-71.07	-71.03	-56.02
	3		-71.22	-71.24	-71.23	-71.28	-56.02

Table 7-212. Conducted Spurious Emission Summary Data (B13_10M_1C)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	1559 to 1610	-70.51	-70.53	-70.46	-70.57	-56.02
	1		-71.33	-71.33	-71.32	-71.24	-56.02
	2		-70.37	-70.29	-70.48	-70.44	-56.02
	3		-71.17	-71.14	-71.13	-71.20	-56.02

Table 7-213. Conducted Spurious Emission Summary Data (B13_5M+5M_2C)

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 303 of 367	

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.37	-56.02
	1		-70.42	-56.02
	2		-70.96	-56.02
	3		-70.98	-56.02
High	0		-70.35	-56.02
	1		-70.40	-56.02
	2		-70.84	-56.02
	3		-71.09	-56.02
High	0		-70.29	-56.02
	1		-70.33	-56.02
	2		-70.91	-56.02
	3		-71.11	-56.02

Table 7-214. Conducted Spurious Emission Summary Data (B13_5M+NB-lot(IB)_2C)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.38	-56.02
	1		-70.43	-56.02
	2		-70.91	-56.02
	3		-71.14	-56.02

Table 7-215. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.47	-56.02
	1		-70.52	-56.02
	2		-71.01	-56.02
	3		-71.27	-56.02

Table 7-216. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.49	-56.02
	1		-70.44	-56.02
	2		-71.06	-56.02
	3		-71.18	-56.02

Table 7-217. Conducted Spurious Emission Summary Data (B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C)

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 304 of 367	

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.48	-56.02
	1		-70.45	-56.02
	2		-71.02	-56.02
	3		-71.24	-56.02

Table 7-218. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(GB)+High_NB-lot(GB)_3C)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.34	-56.02
	1		-70.50	-56.02
	2		-71.08	-56.02
	3		-71.20	-56.02

Table 7-219. Conducted Spurious Emission Summary Data (B13_10M+Low_NB-lot(GB)+High_NB-lot(IB)_2C)

Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	1559 to 1610	-70.43	-56.02
	1		-70.45	-56.02
	2		-71.07	-56.02
	3		-71.23	-56.02

Table 7-220. Conducted Spurious Emission Summary Data (B13_10M+High_NB-lot(GB)+Low_NB-lot(IB)_2C)



Plot 7-869. Conducted Spurious Emission Plot
1559 MHz to 1610 MHz
(B13_5M+NB-lot(IB)_1C_2T_QPSK - High channel - Port 0)



Plot 7-870. Conducted Spurious Emission Plot
1559 MHz to 1610 MHz
(B13_10M+High_NB-lot(GB)+Low_NB-lot(IB)_2C_QPSK - Port 0)

Note: The 1559 to 1610 MHz spurious emission of All Configurations are attenuated more than 12 dB below permissible value and

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 305 of 367

DSS Ratio	Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
				QPSK	16QAM	64QAM	256QAM		
LTE 9 / NR 1	Low	0	9 kHz to 150 kHz	-51.91	-51.95	-52.27	-52.17	-39.02	-12.89
			150 kHz to 30 MHz	-39.80	-39.52	-39.04	-39.45	-29.02	-10.02
			30 MHz to 858 MHz	-42.93	-42.79	-42.96	-42.76	-19.02	-23.74
			858 MHz to 868 GHz	-30.23	-29.50	-30.37	-30.92	-19.02	-10.48
			895 MHz to 1 GHz	-35.95	-36.73	-35.50	-36.28	-19.02	-16.48
			1 GHz to 10 GHz	-27.01	-27.24	-26.43	-26.72	-19.02	-7.41
		1	9 kHz to 150 kHz	-50.94	-50.87	-50.85	-51.17	-39.02	-11.83
			150 kHz to 30 MHz	-39.26	-38.86	-40.25	-39.49	-29.02	-9.84
			30 MHz to 858 MHz	-43.65	-43.57	-43.63	-43.63	-19.02	-24.55
			858 MHz to 868 GHz	-29.79	-29.84	-31.25	-30.33	-19.02	-10.77
			895 MHz to 1 GHz	-37.23	-36.69	-35.82	-36.06	-19.02	-16.80
			1 GHz to 10 GHz	-25.03	-25.44	-25.65	-24.52	-19.02	-5.50
	2	9 kHz to 150 kHz	-52.23	-52.87	-52.24	-52.66	-39.02	-13.21	
		150 kHz to 30 MHz	-39.38	-39.93	-39.99	-39.66	-29.02	-10.36	
		30 MHz to 858 MHz	-43.58	-43.29	-43.40	-43.47	-19.02	-24.27	
		858 MHz to 868 GHz	-25.93	-23.42	-25.68	-26.89	-19.02	-4.40	
		895 MHz to 1 GHz	-34.31	-32.96	-31.74	-32.90	-19.02	-12.72	
		1 GHz to 10 GHz	-26.64	-25.72	-26.24	-26.29	-19.02	-6.70	
	3	9 kHz to 150 kHz	-51.79	-51.77	-51.92	-52.33	-39.02	-12.75	
		150 kHz to 30 MHz	-39.45	-40.65	-38.73	-38.73	-29.02	-9.71	
		30 MHz to 858 MHz	-43.46	-43.58	-43.61	-43.54	-19.02	-24.44	
		858 MHz to 868 GHz	-28.00	-26.53	-26.10	-26.77	-19.02	-7.08	
		895 MHz to 1 GHz	-35.01	-33.05	-31.30	-32.65	-19.02	-12.28	
		1 GHz to 10 GHz	-28.03	-29.01	-29.56	-29.64	-19.02	-9.01	
Middle	0	9 kHz to 150 kHz	-52.12	-51.80	-51.69	-52.09	-39.02	-12.67	
		150 kHz to 30 MHz	-40.57	-40.44	-39.91	-39.51	-29.02	-10.49	
		30 MHz to 858 MHz	-43.01	-43.10	-42.48	-43.10	-19.02	-23.46	
		858 MHz to 868 GHz	-34.32	-32.96	-34.74	-35.09	-19.02	-13.94	
		895 MHz to 1 GHz	-34.02	-33.52	-34.83	-32.37	-19.02	-13.35	
		1 GHz to 10 GHz	-27.05	-26.68	-27.07	-27.55	-19.02	-7.66	
	1	9 kHz to 150 kHz	-50.57	-50.50	-51.10	-50.81	-39.02	-11.48	
		150 kHz to 30 MHz	-40.08	-40.63	-39.94	-39.85	-29.02	-10.83	
		30 MHz to 858 MHz	-43.84	-43.51	-43.55	-43.70	-19.02	-24.49	
		858 MHz to 868 GHz	-35.66	-35.48	-34.72	-33.76	-19.02	-14.74	
		895 MHz to 1 GHz	-34.99	-36.18	-34.94	-34.75	-19.02	-15.73	
		1 GHz to 10 GHz	-24.54	-25.10	-24.84	-24.47	-19.02	-5.45	

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 306 of 367	

High	2	9 kHz to 150 kHz	-52.45	-52.05	-52.65	-52.20	-39.02	-13.03	
		150 kHz to 30 MHz	-39.72	-39.91	-40.60	-40.70	-29.02	-10.70	
		30 MHz to 858 MHz	-43.29	-43.32	-43.52	-43.58	-19.02	-24.27	
		858 MHz to 868 GHz	-33.38	-32.65	-32.49	-35.03	-19.02	-13.47	
		895 MHz to 1 GHz	-34.30	-33.09	-32.91	-33.05	-19.02	-13.89	
		1 GHz to 10 GHz	-26.15	-25.86	-26.72	-26.62	-19.02	-6.84	
	3	9 kHz to 150 kHz	-52.03	-52.06	-52.13	-52.09	-39.02	-13.01	
		150 kHz to 30 MHz	-39.23	-39.51	-39.86	-39.62	-29.02	-10.21	
		30 MHz to 858 MHz	-43.39	-43.60	-43.50	-43.71	-19.02	-24.37	
		858 MHz to 868 GHz	-34.40	-34.40	-33.54	-34.63	-19.02	-14.52	
		895 MHz to 1 GHz	-33.77	-33.95	-33.02	-34.22	-19.02	-14.00	
		1 GHz to 10 GHz	-29.62	-28.78	-29.35	-29.12	-19.02	-9.76	
	0	0	9 kHz to 150 kHz	-51.74	-51.70	-52.14	-52.20	-39.02	-12.68
			150 kHz to 30 MHz	-37.70	-37.76	-38.75	-38.93	-29.02	-8.68
			30 MHz to 858 MHz	-43.13	-43.02	-43.24	-43.10	-19.02	-24.00
			858 MHz to 868 GHz	-36.82	-37.29	-37.39	-35.96	-19.02	-16.94
			895 MHz to 1 GHz	-25.94	-25.28	-30.76	-27.54	-19.02	-6.26
			1 GHz to 10 GHz	-26.84	-27.30	-27.43	-27.28	-19.02	-7.82
		1	9 kHz to 150 kHz	-50.78	-51.15	-50.97	-50.88	-39.02	-11.76
			150 kHz to 30 MHz	-38.69	-39.44	-38.80	-38.45	-29.02	-9.43
			30 MHz to 858 MHz	-43.61	-43.67	-43.40	-43.86	-19.02	-24.38
			858 MHz to 868 GHz	-37.44	-37.49	-37.15	-37.20	-19.02	-18.13
			895 MHz to 1 GHz	-27.91	-28.69	-29.03	-30.16	-19.02	-8.89
			1 GHz to 10 GHz	-25.53	-24.37	-24.92	-25.07	-19.02	-5.35
2		9 kHz to 150 kHz	-52.51	-52.27	-52.83	-52.54	-39.02	-13.25	
		150 kHz to 30 MHz	-39.30	-39.36	-38.48	-39.07	-29.02	-9.46	
		30 MHz to 858 MHz	-43.70	-43.81	-43.60	-43.70	-19.02	-24.58	
		858 MHz to 868 GHz	-34.81	-35.18	-34.70	-35.70	-19.02	-15.68	
		895 MHz to 1 GHz	-27.66	-28.37	-28.41	-28.52	-19.02	-8.64	
		1 GHz to 10 GHz	-25.59	-25.89	-25.77	-25.63	-19.02	-6.57	
3	9 kHz to 150 kHz	-52.13	-52.32	-52.13	-51.99	-39.02	-12.97		
	150 kHz to 30 MHz	-38.31	-38.38	-39.19	-39.35	-29.02	-9.29		
	30 MHz to 858 MHz	-43.54	-43.84	-43.81	-43.57	-19.02	-24.52		
	858 MHz to 868 GHz	-34.72	-35.18	-35.63	-35.73	-19.02	-15.70		
	895 MHz to 1 GHz	-27.88	-28.58	-29.33	-28.46	-19.02	-8.86		
	1 GHz to 10 GHz	-28.95	-29.31	-28.88	-29.66	-19.02	-9.86		

Table 7-221. Conducted Spurious Emission Summary Data (B5_10M(DSS_9:1)_1C)

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 307 of 367

DSS Ratio	Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
				QPSK	16QAM	64QAM	256QAM		
LTE 8 / NR 2	Low	0	9 kHz to 150 kHz	-52.20	-51.89	-52.12	-52.26	-39.02	-12.87
			150 kHz to 30 MHz	-39.29	-39.37	-39.72	-39.06	-29.02	-10.04
			30 MHz to 858 MHz	-42.68	-42.86	-42.88	-43.06	-19.02	-23.66
			858 MHz to 868 GHz	-28.92	-29.18	-31.20	-30.46	-19.02	-9.90
			895 MHz to 1 GHz	-36.09	-35.36	-36.86	-34.66	-19.02	-15.64
			1 GHz to 10 GHz	-27.23	-26.47	-26.61	-26.63	-19.02	-7.45
		1	9 kHz to 150 kHz	-50.97	-50.76	-51.19	-51.03	-39.02	-11.74
			150 kHz to 30 MHz	-38.49	-39.32	-39.08	-39.07	-29.02	-9.47
			30 MHz to 858 MHz	-43.64	-43.71	-43.73	-43.57	-19.02	-24.55
			858 MHz to 868 GHz	-29.21	-28.30	-30.67	-30.04	-19.02	-9.28
			895 MHz to 1 GHz	-35.16	-36.39	-36.91	-36.09	-19.02	-16.14
			1 GHz to 10 GHz	-25.55	-24.54	-25.09	-24.97	-19.02	-5.52
		2	9 kHz to 150 kHz	-52.56	-52.37	-52.60	-52.42	-39.02	-13.35
			150 kHz to 30 MHz	-40.06	-39.66	-39.57	-39.58	-29.02	-10.55
			30 MHz to 858 MHz	-43.52	-43.55	-43.33	-43.71	-19.02	-24.31
			858 MHz to 868 GHz	-23.74	-26.27	-25.24	-27.43	-19.02	-4.72
			895 MHz to 1 GHz	-32.83	-34.86	-31.96	-32.83	-19.02	-12.94
			1 GHz to 10 GHz	-26.55	-26.84	-26.51	-26.94	-19.02	-7.49
	3	9 kHz to 150 kHz	-52.06	-52.10	-52.39	-52.47	-39.02	-13.04	
		150 kHz to 30 MHz	-40.26	-39.30	-39.13	-38.37	-29.02	-9.35	
		30 MHz to 858 MHz	-43.50	-43.67	-43.41	-43.74	-19.02	-24.39	
		858 MHz to 868 GHz	-25.67	-27.29	-25.49	-26.82	-19.02	-6.47	
		895 MHz to 1 GHz	-32.75	-34.58	-32.49	-32.24	-19.02	-13.22	
		1 GHz to 10 GHz	-29.06	-29.09	-27.40	-28.98	-19.02	-8.38	
	Middle	0	9 kHz to 150 kHz	-52.41	-52.33	-52.43	-52.33	-39.02	-13.31
			150 kHz to 30 MHz	-34.44	-35.25	-35.94	-36.32	-29.02	-5.42
			30 MHz to 858 MHz	-42.50	-42.96	-42.99	-43.12	-19.02	-23.48
			858 MHz to 868 GHz	-32.28	-33.43	-35.32	-33.36	-19.02	-13.26
			895 MHz to 1 GHz	-32.81	-33.94	-35.06	-33.48	-19.02	-13.79
			1 GHz to 10 GHz	-26.13	-26.57	-26.67	-26.42	-19.02	-7.11
1		9 kHz to 150 kHz	-51.08	-50.68	-50.80	-50.82	-39.02	-11.66	
		150 kHz to 30 MHz	-35.27	-36.12	-36.22	-36.61	-29.02	-6.25	
		30 MHz to 858 MHz	-43.52	-43.51	-43.57	-43.77	-19.02	-24.49	
		858 MHz to 868 GHz	-35.46	-34.95	-36.34	-35.33	-19.02	-15.93	
		895 MHz to 1 GHz	-34.61	-34.81	-35.14	-32.85	-19.02	-13.83	
		1 GHz to 10 GHz	-25.49	-25.39	-24.67	-25.04	-19.02	-5.65	

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 308 of 367

High	2	9 kHz to 150 kHz	-52.75	-52.74	-52.16	-52.37	-39.02	-13.14	
		150 kHz to 30 MHz	-35.03	-35.86	-35.99	-37.33	-29.02	-6.01	
		30 MHz to 858 MHz	-43.68	-43.51	-43.70	-43.03	-19.02	-24.01	
		858 MHz to 868 GHz	-33.14	-32.28	-33.01	-32.07	-19.02	-13.05	
		895 MHz to 1 GHz	-33.43	-32.30	-32.92	-34.14	-19.02	-13.28	
		1 GHz to 10 GHz	-26.36	-26.43	-26.39	-26.15	-19.02	-7.13	
	3	9 kHz to 150 kHz	-51.76	-52.16	-52.23	-51.60	-39.02	-12.58	
		150 kHz to 30 MHz	-35.60	-35.33	-35.41	-36.34	-29.02	-6.31	
		30 MHz to 858 MHz	-43.55	-43.51	-43.54	-43.57	-19.02	-24.49	
		858 MHz to 868 GHz	-33.84	-32.93	-34.93	-33.63	-19.02	-13.91	
		895 MHz to 1 GHz	-35.18	-32.98	-34.81	-34.12	-19.02	-13.96	
		1 GHz to 10 GHz	-29.06	-29.37	-29.14	-28.19	-19.02	-9.17	
	0	0	9 kHz to 150 kHz	-51.98	-52.09	-52.39	-52.54	-39.02	-12.96
			150 kHz to 30 MHz	-38.49	-38.51	-38.07	-38.89	-29.02	-9.05
			30 MHz to 858 MHz	-42.92	-43.16	-42.94	-42.91	-19.02	-23.89
			858 MHz to 868 GHz	-35.40	-35.60	-36.18	-36.14	-19.02	-16.38
			895 MHz to 1 GHz	-23.01	-26.30	-29.91	-27.16	-19.02	-3.99
			1 GHz to 10 GHz	-27.43	-26.96	-26.05	-27.15	-19.02	-7.03
		1	9 kHz to 150 kHz	-50.65	-51.01	-51.30	-51.30	-39.02	-11.63
			150 kHz to 30 MHz	-39.64	-38.65	-38.97	-38.63	-29.02	-9.61
			30 MHz to 858 MHz	-43.91	-43.53	-43.68	-43.50	-19.02	-24.48
			858 MHz to 868 GHz	-37.13	-37.46	-36.77	-37.10	-19.02	-17.75
			895 MHz to 1 GHz	-26.97	-27.59	-28.11	-28.95	-19.02	-7.95
			1 GHz to 10 GHz	-24.23	-25.17	-25.29	-25.02	-19.02	-5.21
2		9 kHz to 150 kHz	-52.22	-52.22	-52.57	-52.25	-39.02	-13.20	
		150 kHz to 30 MHz	-38.96	-38.71	-38.99	-39.55	-29.02	-9.69	
		30 MHz to 858 MHz	-43.75	-43.49	-43.63	-43.71	-19.02	-24.47	
		858 MHz to 868 GHz	-34.99	-35.03	-35.37	-35.68	-19.02	-15.97	
		895 MHz to 1 GHz	-26.50	-29.14	-28.35	-28.74	-19.02	-7.48	
		1 GHz to 10 GHz	-25.67	-25.86	-25.84	-25.63	-19.02	-6.61	
3	9 kHz to 150 kHz	-52.00	-52.29	-52.28	-52.01	-39.02	-12.98		
	150 kHz to 30 MHz	-39.41	-38.65	-38.08	-39.01	-29.02	-9.06		
	30 MHz to 858 MHz	-43.61	-43.55	-43.49	-43.47	-19.02	-24.45		
	858 MHz to 868 GHz	-34.87	-35.19	-35.93	-35.61	-19.02	-15.85		
	895 MHz to 1 GHz	-29.05	-28.39	-29.42	-29.70	-19.02	-9.37		
	1 GHz to 10 GHz	-27.95	-29.07	-29.40	-28.11	-19.02	-8.93		

Table 7-222. Conducted Spurious Emission Summary Data (B5_10M(DSS_8:2)_1C)

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 309 of 367

DSS Ratio	Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
				QPSK	16QAM	64QAM	256QAM		
LTE 7 / NR 3	Low	0	9 kHz to 150 kHz	-52.09	-52.29	-52.40	-52.31	-39.02	-13.07
			150 kHz to 30 MHz	-38.71	-40.73	-39.76	-39.60	-29.02	-9.69
			30 MHz to 858 MHz	-42.87	-42.82	-43.00	-43.07	-19.02	-23.80
			858 MHz to 868 GHz	-30.01	-29.57	-31.46	-31.18	-19.02	-10.55
			895 MHz to 1 GHz	-35.09	-35.45	-36.03	-35.53	-19.02	-16.07
			1 GHz to 10 GHz	-27.07	-26.80	-26.98	-27.86	-19.02	-7.78
		1	9 kHz to 150 kHz	-51.20	-51.12	-51.30	-50.71	-39.02	-11.69
			150 kHz to 30 MHz	-39.34	-39.53	-40.35	-40.32	-29.02	-10.32
			30 MHz to 858 MHz	-43.73	-43.77	-43.62	-43.66	-19.02	-24.60
			858 MHz to 868 GHz	-30.17	-29.32	-31.23	-30.46	-19.02	-10.30
			895 MHz to 1 GHz	-35.87	-36.87	-36.17	-36.28	-19.02	-16.85
			1 GHz to 10 GHz	-25.49	-25.46	-24.96	-23.50	-19.02	-4.48
		2	9 kHz to 150 kHz	-52.67	-52.16	-52.43	-52.47	-39.02	-13.14
			150 kHz to 30 MHz	-40.03	-40.57	-39.67	-41.90	-29.02	-10.65
			30 MHz to 858 MHz	-43.51	-43.65	-40.59	-43.39	-19.02	-21.57
			858 MHz to 868 GHz	-24.45	-24.22	-24.17	-29.13	-19.02	-5.15
			895 MHz to 1 GHz	-33.74	-34.32	-32.33	-34.86	-19.02	-13.31
			1 GHz to 10 GHz	-25.82	-26.92	-26.07	-26.46	-19.02	-6.80
	3	9 kHz to 150 kHz	-51.62	-51.80	-51.93	-51.97	-39.02	-12.60	
		150 kHz to 30 MHz	-39.43	-39.09	-39.58	-38.71	-29.02	-9.69	
		30 MHz to 858 MHz	-43.51	-43.39	-43.39	-43.48	-19.02	-24.37	
		858 MHz to 868 GHz	-26.83	-26.42	-26.56	-28.73	-19.02	-7.40	
		895 MHz to 1 GHz	-33.30	-34.56	-33.08	-34.32	-19.02	-14.06	
		1 GHz to 10 GHz	-27.62	-28.60	-28.97	-29.24	-19.02	-8.60	
	Middle	0	9 kHz to 150 kHz	-52.42	-52.06	-52.18	-52.30	-39.02	-13.04
			150 kHz to 30 MHz	-37.07	-36.66	-37.54	-37.43	-29.02	-7.64
			30 MHz to 858 MHz	-43.07	-43.00	-43.03	-42.99	-19.02	-23.97
			858 MHz to 868 GHz	-33.16	-34.82	-35.10	-35.17	-19.02	-14.14
			895 MHz to 1 GHz	-34.65	-33.18	-35.39	-34.84	-19.02	-14.16
			1 GHz to 10 GHz	-27.68	-27.39	-28.07	-26.82	-19.02	-7.80
1		9 kHz to 150 kHz	-51.15	-51.17	-50.94	-50.83	-39.02	-11.81	
		150 kHz to 30 MHz	-36.94	-36.96	-37.26	-38.56	-29.02	-7.92	
		30 MHz to 858 MHz	-43.76	-43.79	-43.60	-43.67	-19.02	-24.58	
		858 MHz to 868 GHz	-34.97	-35.29	-34.77	-35.83	-19.02	-15.75	
		895 MHz to 1 GHz	-36.13	-35.54	-36.89	-35.00	-19.02	-15.98	
		1 GHz to 10 GHz	-25.73	-25.30	-24.47	-24.04	-19.02	-5.02	

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 310 of 367	