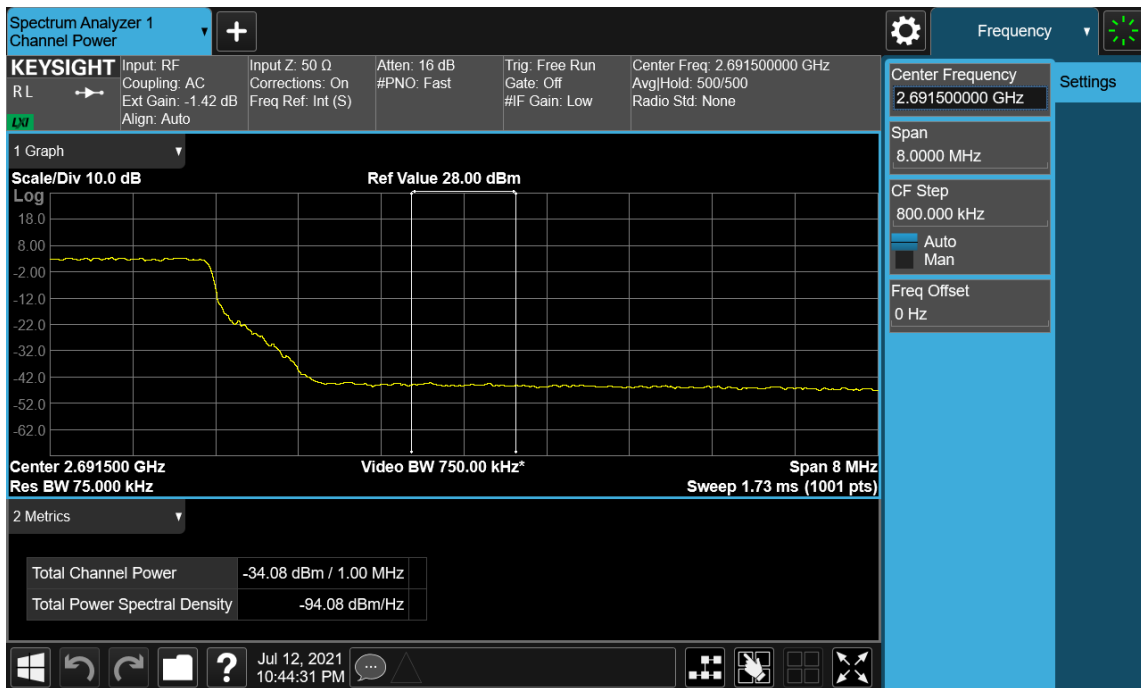




Plot 7-91. Band Edge Emission (2690MHz to 2691MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - High Channel\_Port 36)



Plot 7-92. Band Edge Emission (2691MHz to 2692MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - High Channel\_Port 23)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 108 of 201

**- Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous Configuraiton**

Channel	Port #	Measurement Range	Level(dBm)	Port #	Level(dBm)	Limit (dBm)
Low	0	2495MHz to 2496MHz	-37.62	32	-37.69	-31.06
		2494MHz to 2495MHz	-37.18		-36.44	-31.06
	1	2495MHz to 2496MHz	-37.27	33	-38.00	-31.06
		2494MHz to 2495MHz	-36.41		-36.77	-31.06
	2	2495MHz to 2496MHz	-37.10	34	-37.50	-31.06
		2494MHz to 2495MHz	-37.19		-36.30	-31.06
	3	2495MHz to 2496MHz	-37.66	35	-38.05	-31.06
		2494MHz to 2495MHz	-36.35		-36.81	-31.06
	4	2495MHz to 2496MHz	-37.61	36	-37.79	-31.06
		2494MHz to 2495MHz	-37.11		-36.36	-31.06
	5	2495MHz to 2496MHz	-37.20	37	-37.30	-31.06
		2494MHz to 2495MHz	-36.40		-35.93	-31.06
	6	2495MHz to 2496MHz	-37.99	38	-38.32	-31.06
		2494MHz to 2495MHz	-37.15		-36.77	-31.06
	7	2495MHz to 2496MHz	-37.80	39	-37.84	-31.06
		2494MHz to 2495MHz	-36.77		-36.29	-31.06
	8	2495MHz to 2496MHz	-37.97	40	-38.25	-31.06
		2494MHz to 2495MHz	-36.63		-37.05	-31.06
	9	2495MHz to 2496MHz	-36.92	41	-37.92	-31.06
		2494MHz to 2495MHz	-36.00		-36.44	-31.06
	10	2495MHz to 2496MHz	-37.95	42	-38.51	-31.06
		2494MHz to 2495MHz	-36.93		-37.03	-31.06
	11	2495MHz to 2496MHz	-38.29	43	-38.11	-31.06
		2494MHz to 2495MHz	-37.13		-36.73	-31.06
	12	2495MHz to 2496MHz	-37.80	44	-37.93	-31.06
		2494MHz to 2495MHz	-36.67		-36.46	-31.06
	13	2495MHz to 2496MHz	-38.35	45	-37.76	-31.06
		2494MHz to 2495MHz	-36.82		-36.11	-31.06
	14	2495MHz to 2496MHz	-37.86	46	-38.07	-31.06
		2494MHz to 2495MHz	-36.79		-36.55	-31.06
	15	2495MHz to 2496MHz	-37.58	47	-38.21	-31.06
		2494MHz to 2495MHz	-36.69		-36.46	-31.06
	16	2495MHz to 2496MHz	-36.39	48	-38.09	-31.06
		2494MHz to 2495MHz	-36.31		-36.63	-31.06
	17	2495MHz to 2496MHz	-38.00	49	-38.62	-31.06
		2494MHz to 2495MHz	-37.03		-36.63	-31.06
	18	2495MHz to 2496MHz	-37.45	50	-37.57	-31.06
		2494MHz to 2495MHz	-36.19		-36.11	-31.06
	19	2495MHz to 2496MHz	-37.67	51	-38.26	-31.06
		2494MHz to 2495MHz	-36.46		-36.71	-31.06
	20	2495MHz to 2496MHz	-38.26	52	-37.69	-31.06
		2494MHz to 2495MHz	-36.67		-36.57	-31.06
	21	2495MHz to 2496MHz	-38.24	53	-37.67	-31.06
		2494MHz to 2495MHz	-36.98		-36.17	-31.06
	22	2495MHz to 2496MHz	-37.24	54	-37.32	-31.06
		2494MHz to 2495MHz	-36.71		-36.31	-31.06
	23	2495MHz to 2496MHz	-37.69	55	-38.13	-31.06
		2494MHz to 2495MHz	-36.17		-36.71	-31.06
	24	2495MHz to 2496MHz	-38.36	56	-37.95	-31.06
		2494MHz to 2495MHz	-36.81		-36.05	-31.06
	25	2495MHz to 2496MHz	-38.86	57	-37.67	-31.06
		2494MHz to 2495MHz	-37.49		-36.22	-31.06
	26	2495MHz to 2496MHz	-38.60	58	-37.02	-31.06
		2494MHz to 2495MHz	-37.06		-35.75	-31.06
	27	2495MHz to 2496MHz	-38.36	59	-37.88	-31.06
		2494MHz to 2495MHz	-36.77		-36.21	-31.06
	28	2495MHz to 2496MHz	-38.50	60	-37.52	-31.06
		2494MHz to 2495MHz	-36.93		-35.66	-31.06
	29	2495MHz to 2496MHz	-38.41	61	-37.86	-31.06
		2494MHz to 2495MHz	-37.20		-36.22	-31.06
	30	2495MHz to 2496MHz	-37.84	62	-37.94	-31.06
		2494MHz to 2495MHz	-36.84		-36.19	-31.06
31	2495MHz to 2496MHz	-38.37	63	-38.12	-31.06	
	2494MHz to 2495MHz	-36.70		-36.99	-31.06	

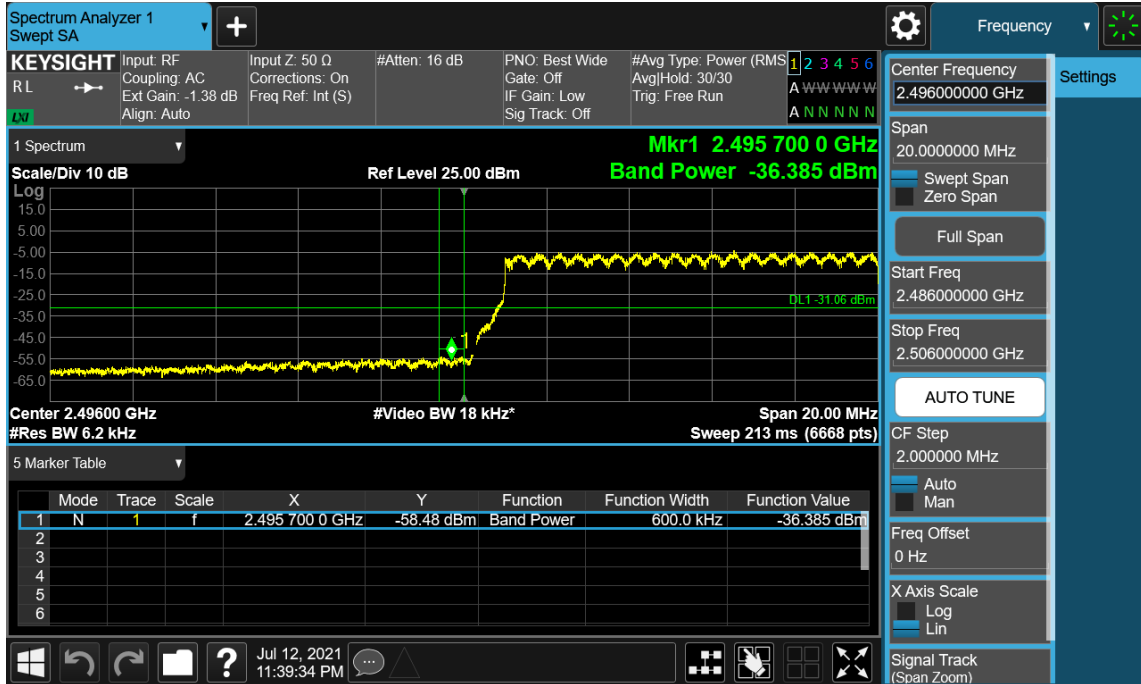
**Table 7-29. Band Edge Emission Summary Data**  
**(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-Contiguous\_Low Channel)**

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 109 of 201	

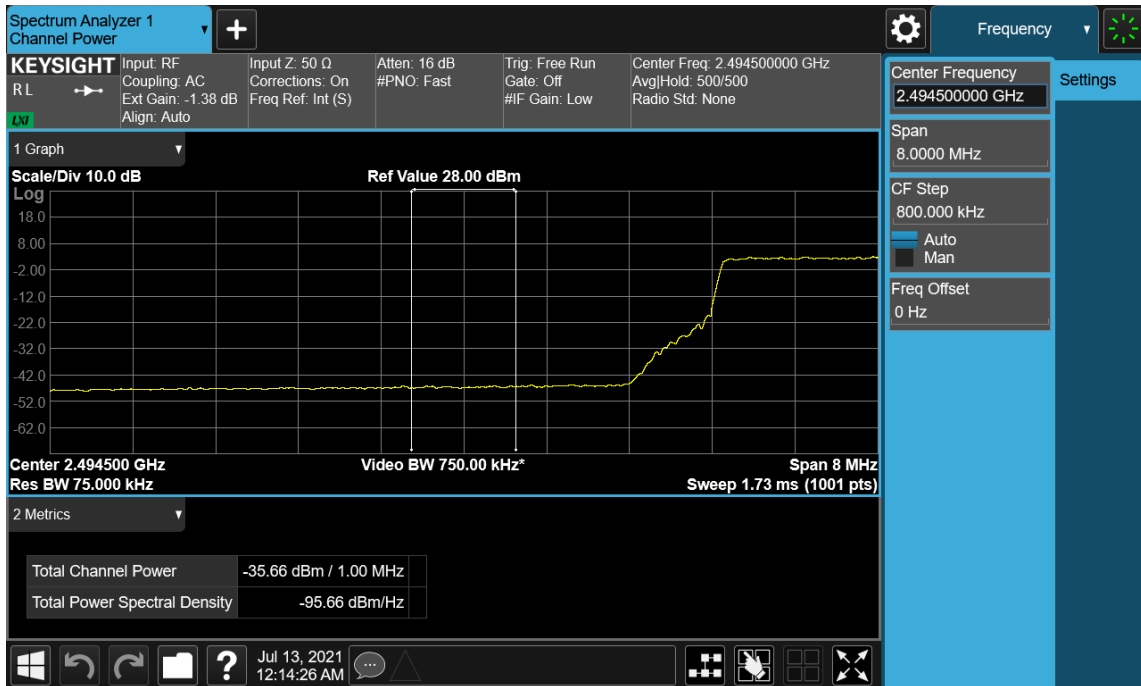
Channel	Port #	Measurement Range	Level(dBm)	Port #	Level(dBm)	Limit (dBm)
High	0	2690MHz to 2691MHz	-35.10	32	-35.04	-31.06
		2691MHz to 2692MHz	-34.62		-35.18	-31.06
	1	2690MHz to 2691MHz	-35.70	33	-34.62	-31.06
		2691MHz to 2692MHz	-34.32		-34.64	-31.06
	2	2690MHz to 2691MHz	-35.51	34	-35.19	-31.06
		2691MHz to 2692MHz	-32.36		-34.10	-31.06
	3	2690MHz to 2691MHz	-35.45	35	-35.35	-31.06
		2691MHz to 2692MHz	-34.20		-34.81	-31.06
	4	2690MHz to 2691MHz	-35.15	36	-34.63	-31.06
		2691MHz to 2692MHz	-34.96		-34.13	-31.06
	5	2690MHz to 2691MHz	-35.37	37	-35.69	-31.06
		2691MHz to 2692MHz	-33.45		-34.37	-31.06
	6	2690MHz to 2691MHz	-35.54	38	-35.55	-31.06
		2691MHz to 2692MHz	-33.76		-34.52	-31.06
	7	2690MHz to 2691MHz	-35.55	39	-35.51	-31.06
		2691MHz to 2692MHz	-34.59		-33.41	-31.06
	8	2690MHz to 2691MHz	-34.95	40	-35.30	-31.06
		2691MHz to 2692MHz	-34.57		-34.07	-31.06
	9	2690MHz to 2691MHz	-36.22	41	-35.32	-31.06
		2691MHz to 2692MHz	-33.69		-33.91	-31.06
	10	2690MHz to 2691MHz	-35.00	42	-35.46	-31.06
		2691MHz to 2692MHz	-34.30		-34.29	-31.06
	11	2690MHz to 2691MHz	-35.82	43	-35.46	-31.06
		2691MHz to 2692MHz	-34.86		-34.01	-31.06
	12	2690MHz to 2691MHz	-35.71	44	-35.44	-31.06
		2691MHz to 2692MHz	-34.08		-33.70	-31.06
	13	2690MHz to 2691MHz	-34.98	45	-35.04	-31.06
		2691MHz to 2692MHz	-34.61		-34.38	-31.06
	14	2690MHz to 2691MHz	-35.00	46	-35.46	-31.06
		2691MHz to 2692MHz	-34.63		-33.89	-31.06
	15	2690MHz to 2691MHz	-35.79	47	-34.86	-31.06
		2691MHz to 2692MHz	-34.59		-33.76	-31.06
	16	2690MHz to 2691MHz	-35.36	48	-34.69	-31.06
		2691MHz to 2692MHz	-33.61		-33.62	-31.06
	17	2690MHz to 2691MHz	-35.66	49	-34.47	-31.06
		2691MHz to 2692MHz	-34.42		-34.55	-31.06
	18	2690MHz to 2691MHz	-35.03	50	-35.35	-31.06
		2691MHz to 2692MHz	-34.76		-34.40	-31.06
	19	2690MHz to 2691MHz	-35.58	51	-35.20	-31.06
		2691MHz to 2692MHz	-34.07		-34.49	-31.06
	20	2690MHz to 2691MHz	-34.99	52	-34.71	-31.06
		2691MHz to 2692MHz	-34.66		-34.54	-31.06
	21	2690MHz to 2691MHz	-36.10	53	-35.14	-31.06
		2691MHz to 2692MHz	-35.37		-34.32	-31.06
	22	2690MHz to 2691MHz	-35.18	54	-35.27	-31.06
		2691MHz to 2692MHz	-34.59		-34.34	-31.06
	23	2690MHz to 2691MHz	-35.72	55	-35.02	-31.06
		2691MHz to 2692MHz	-34.40		-34.83	-31.06
	24	2690MHz to 2691MHz	-35.15	56	-35.48	-31.06
		2691MHz to 2692MHz	-34.78		-34.40	-31.06
	25	2690MHz to 2691MHz	-35.51	57	-35.03	-31.06
		2691MHz to 2692MHz	-34.73		-34.17	-31.06
	26	2690MHz to 2691MHz	-35.38	58	-35.62	-31.06
		2691MHz to 2692MHz	-34.50		-34.62	-31.06
	27	2690MHz to 2691MHz	-35.72	59	-34.78	-31.06
		2691MHz to 2692MHz	-34.63		-34.51	-31.06
	28	2690MHz to 2691MHz	-34.95	60	-33.64	-31.06
		2691MHz to 2692MHz	-34.74		-32.42	-31.06
	29	2690MHz to 2691MHz	-34.92	61	-35.30	-31.06
		2691MHz to 2692MHz	-35.03		-34.23	-31.06
	30	2690MHz to 2691MHz	-35.67	62	-35.16	-31.06
		2691MHz to 2692MHz	-34.82		-34.50	-31.06
31	2690MHz to 2691MHz	-34.68	63	-34.55	-31.06	
	2691MHz to 2692MHz	-34.95		-34.28	-31.06	

**Table 7-30. Band Edge Emission Summary Data  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-Contiguous\_High Channel)**

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT (Certification)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> BK21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 110 of 201

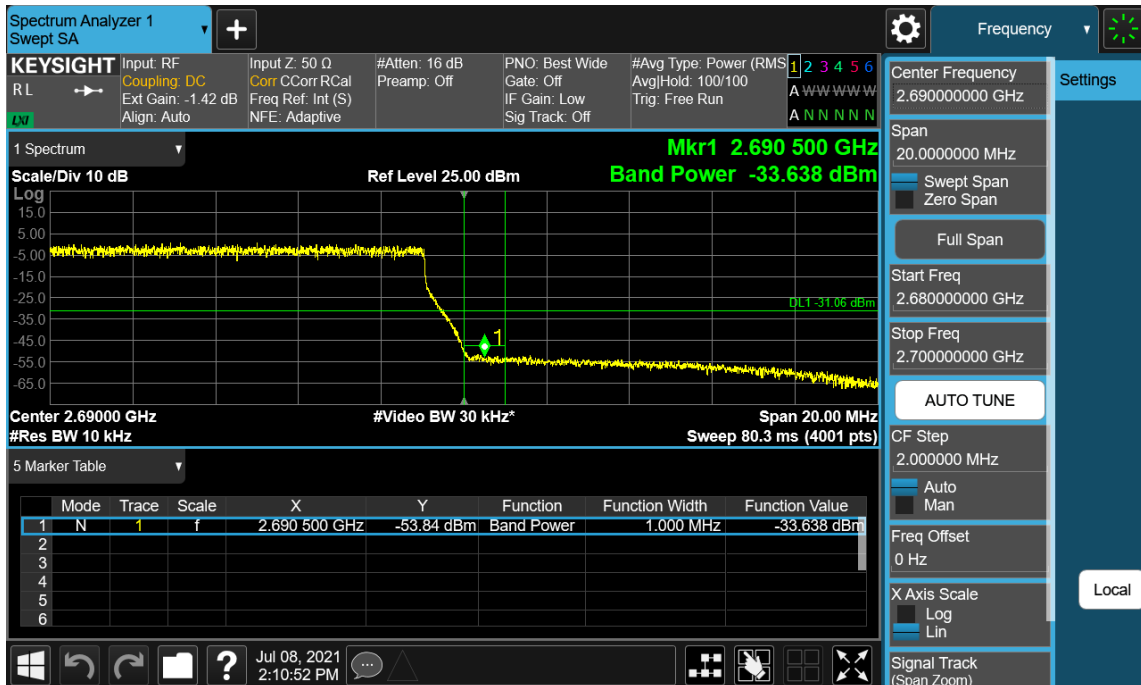


Plot 7-93. Band Edge Emission (2495MHz to 2496MHz) Plot  
 (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-Contiguous - Low Channel\_Port 16)

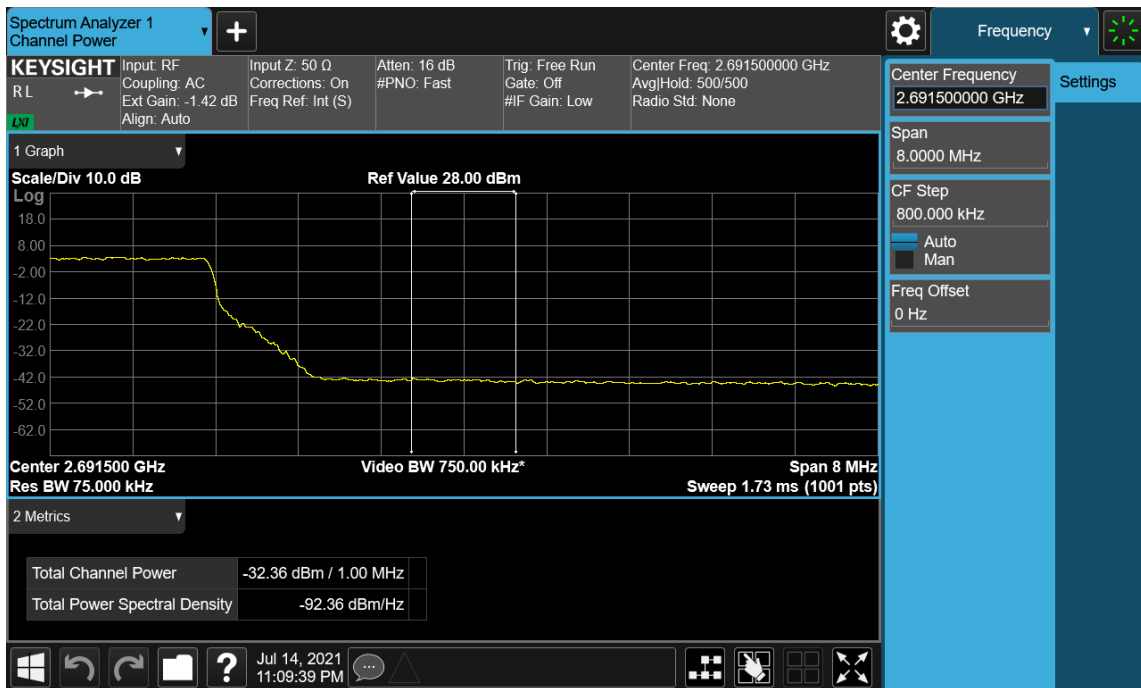


Plot 7-94. Band Edge Emission (2494MHz to 2495MHz) Plot  
 (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-Contiguous - Low Channel\_Port 60)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 111 of 201



Plot 7-95. Band Edge Emission (2690MHz to 2691MHz) Plot  
 (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-Contiguous - High Channel\_Port 60)



Plot 7-96. Band Edge Emission (2691MHz to 2692MHz) Plot  
 (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-Contiguous - High Channel\_Port 2)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 8K21060701-R1.A3L	Test Dates: 06/10/2021-07/27/2021	EUT Type: MMU(MT6411)		Page 112 of 201

**- Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Contiguous Configuraiton**

Channel	Port #	Measurement Range	Level(dBm)	Port #	Level(dBm)	Limit (dBm)
Low	0	2495MHz to 2496MHz	-37.40	32	-36.86	-31.06
		2494MHz to 2495MHz	-35.41		-36.28	-31.06
	1	2495MHz to 2496MHz	-37.46	33	-36.78	-31.06
		2494MHz to 2495MHz	-35.64		-36.51	-31.06
	2	2495MHz to 2496MHz	-37.48	34	-37.09	-31.06
		2494MHz to 2495MHz	-35.47		-35.91	-31.06
	3	2495MHz to 2496MHz	-37.56	35	-37.29	-31.06
		2494MHz to 2495MHz	-35.32		-36.29	-31.06
	4	2495MHz to 2496MHz	-36.94	36	-36.81	-31.06
		2494MHz to 2495MHz	-35.67		-35.92	-31.06
	5	2495MHz to 2496MHz	-37.10	37	-37.37	-31.06
		2494MHz to 2495MHz	-33.88		-35.69	-31.06
	6	2495MHz to 2496MHz	-37.51	38	-37.31	-31.06
		2494MHz to 2495MHz	-35.63		-36.00	-31.06
	7	2495MHz to 2496MHz	-37.61	39	-37.23	-31.06
		2494MHz to 2495MHz	-35.65		-35.83	-31.06
	8	2495MHz to 2496MHz	-37.34	40	-37.25	-31.06
		2494MHz to 2495MHz	-35.69		-36.16	-31.06
	9	2495MHz to 2496MHz	-37.18	41	-37.15	-31.06
		2494MHz to 2495MHz	-34.83		-36.35	-31.06
	10	2495MHz to 2496MHz	-36.76	42	-37.51	-31.06
		2494MHz to 2495MHz	-36.27		-36.27	-31.06
	11	2495MHz to 2496MHz	-37.76	43	-37.30	-31.06
		2494MHz to 2495MHz	-36.56		-36.09	-31.06
	12	2495MHz to 2496MHz	-37.45	44	-37.02	-31.06
		2494MHz to 2495MHz	-35.50		-36.00	-31.06
	13	2495MHz to 2496MHz	-37.05	45	-37.07	-31.06
		2494MHz to 2495MHz	-36.52		-35.91	-31.06
	14	2495MHz to 2496MHz	-37.45	46	-37.36	-31.06
		2494MHz to 2495MHz	-36.08		-36.22	-31.06
	15	2495MHz to 2496MHz	-37.78	47	-36.53	-31.06
		2494MHz to 2495MHz	-36.70		-35.94	-31.06
	16	2495MHz to 2496MHz	-37.14	48	-37.00	-31.06
		2494MHz to 2495MHz	-35.74		-35.99	-31.06
	17	2495MHz to 2496MHz	-37.98	49	-36.90	-31.06
		2494MHz to 2495MHz	-35.98		-36.49	-31.06
	18	2495MHz to 2496MHz	-36.90	50	-36.57	-31.06
		2494MHz to 2495MHz	-35.97		-36.10	-31.06
	19	2495MHz to 2496MHz	-37.89	51	-36.42	-31.06
		2494MHz to 2495MHz	-35.52		-36.16	-31.06
	20	2495MHz to 2496MHz	-37.32	52	-36.80	-31.06
		2494MHz to 2495MHz	-36.31		-36.23	-31.06
	21	2495MHz to 2496MHz	-37.58	53	-36.95	-31.06
		2494MHz to 2495MHz	-36.91		-36.01	-31.06
	22	2495MHz to 2496MHz	-37.13	54	-36.38	-31.06
		2494MHz to 2495MHz	-36.27		-35.80	-31.06
	23	2495MHz to 2496MHz	-37.28	55	-37.17	-31.06
		2494MHz to 2495MHz	-35.69		-36.34	-31.06
	24	2495MHz to 2496MHz	-36.76	56	-36.60	-31.06
		2494MHz to 2495MHz	-36.31		-35.66	-31.06
	25	2495MHz to 2496MHz	-37.11	57	-36.64	-31.06
		2494MHz to 2495MHz	-36.62		-36.35	-31.06
	26	2495MHz to 2496MHz	-37.61	58	-36.91	-31.06
		2494MHz to 2495MHz	-36.27		-35.80	-31.06
	27	2495MHz to 2496MHz	-37.82	59	-36.80	-31.06
		2494MHz to 2495MHz	-36.15		-35.87	-31.06
	28	2495MHz to 2496MHz	-37.87	60	-36.96	-31.06
		2494MHz to 2495MHz	-36.60		-36.23	-31.06
	29	2495MHz to 2496MHz	-37.08	61	-37.42	-31.06
		2494MHz to 2495MHz	-36.50		-36.02	-31.06
	30	2495MHz to 2496MHz	-37.52	62	-37.58	-31.06
		2494MHz to 2495MHz	-36.78		-36.01	-31.06
	31	2495MHz to 2496MHz	-36.60	63	-36.44	-31.06
2494MHz to 2495MHz		-36.24	-36.14		-31.06	

**Table 7-31. Band Edge Emission Summary Data (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Contiguous\_Low Channel)**

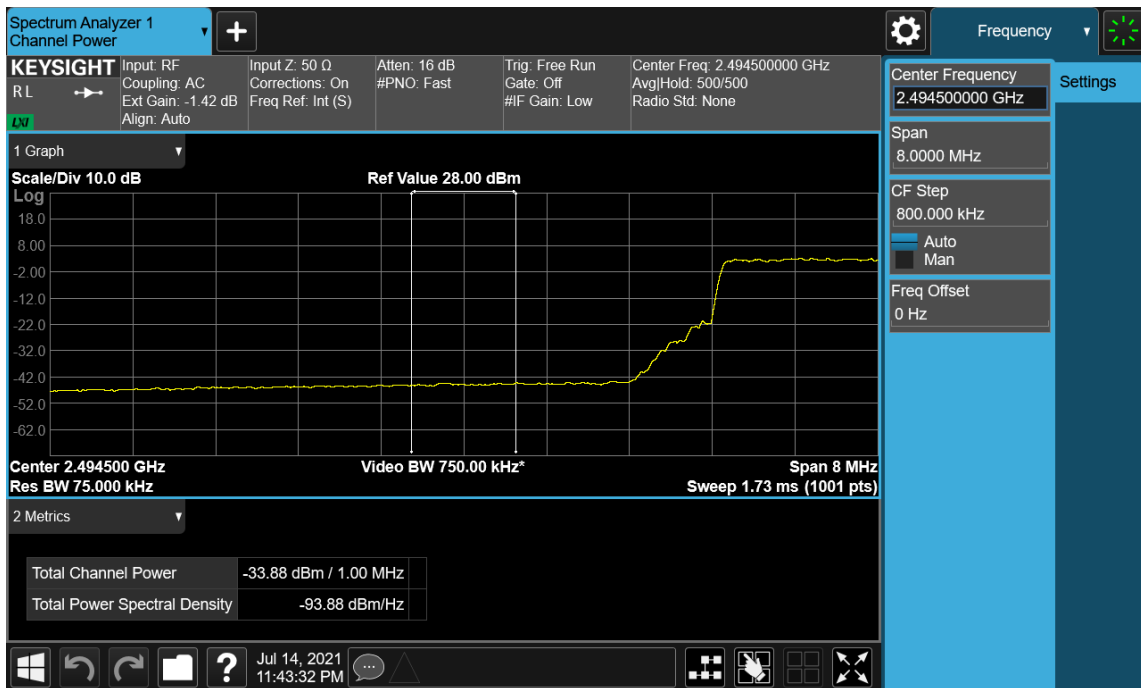
FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 113 of 201	

Channel	Port #	Measurement Range	Level(dBm)	Port #	Level(dBm)	Limit (dBm)
High	0	2690MHz to 2691MHz	-35.06	32	-35.33	-31.06
		2691MHz to 2692MHz	-34.52		-35.16	-31.06
	1	2690MHz to 2691MHz	-35.37	33	-35.01	-31.06
		2691MHz to 2692MHz	-35.21		-35.15	-31.06
	2	2690MHz to 2691MHz	-34.96	34	-35.46	-31.06
		2691MHz to 2692MHz	-34.99		-34.65	-31.06
	3	2690MHz to 2691MHz	-35.21	35	-35.75	-31.06
		2691MHz to 2692MHz	-35.38		-35.30	-31.06
	4	2690MHz to 2691MHz	-34.54	36	-35.18	-31.06
		2691MHz to 2692MHz	-34.99		-34.75	-31.06
	5	2690MHz to 2691MHz	-35.30	37	-35.70	-31.06
		2691MHz to 2692MHz	-34.71		-34.56	-31.06
	6	2690MHz to 2691MHz	-35.43	38	-35.63	-31.06
		2691MHz to 2692MHz	-35.13		-35.18	-31.06
	7	2690MHz to 2691MHz	-35.96	39	-35.27	-31.06
		2691MHz to 2692MHz	-35.56		-34.66	-31.06
	8	2690MHz to 2691MHz	-35.09	40	-35.28	-31.06
		2691MHz to 2692MHz	-35.07		-35.01	-31.06
	9	2690MHz to 2691MHz	-35.50	41	-34.69	-31.06
		2691MHz to 2692MHz	-34.99		-35.32	-31.06
	10	2690MHz to 2691MHz	-35.00	42	-35.58	-31.06
		2691MHz to 2692MHz	-35.33		-34.99	-31.06
	11	2690MHz to 2691MHz	-35.69	43	-35.40	-31.06
		2691MHz to 2692MHz	-35.47		-35.00	-31.06
	12	2690MHz to 2691MHz	-34.99	44	-35.62	-31.06
		2691MHz to 2692MHz	-34.93		-34.94	-31.06
	13	2690MHz to 2691MHz	-35.73	45	-35.15	-31.06
		2691MHz to 2692MHz	-35.31		-34.92	-31.06
	14	2690MHz to 2691MHz	-34.99	46	-35.86	-31.06
		2691MHz to 2692MHz	-35.37		-35.20	-31.06
	15	2690MHz to 2691MHz	-35.80	47	-34.61	-31.06
		2691MHz to 2692MHz	-35.20		-34.77	-31.06
	16	2690MHz to 2691MHz	-35.44	48	-35.40	-31.06
		2691MHz to 2692MHz	-34.87		-34.91	-31.06
	17	2690MHz to 2691MHz	-35.80	49	-35.19	-31.06
		2691MHz to 2692MHz	-35.08		-35.39	-31.06
	18	2690MHz to 2691MHz	-35.61	50	-35.59	-31.06
		2691MHz to 2692MHz	-35.16		-35.11	-31.06
	19	2690MHz to 2691MHz	-35.83	51	-35.12	-31.06
		2691MHz to 2692MHz	-34.86		-35.10	-31.06
	20	2690MHz to 2691MHz	-35.09	52	-35.06	-31.06
		2691MHz to 2692MHz	-35.06		-35.21	-31.06
	21	2690MHz to 2691MHz	-35.46	53	-35.37	-31.06
		2691MHz to 2692MHz	-35.44		-35.22	-31.06
	22	2690MHz to 2691MHz	-35.38	54	-35.13	-31.06
		2691MHz to 2692MHz	-35.16		-34.99	-31.06
	23	2690MHz to 2691MHz	-36.21	55	-35.25	-31.06
		2691MHz to 2692MHz	-34.68		-35.29	-31.06
	24	2690MHz to 2691MHz	-35.68	56	-35.23	-31.06
		2691MHz to 2692MHz	-35.28		-34.75	-31.06
	25	2690MHz to 2691MHz	-35.57	57	-35.15	-31.06
		2691MHz to 2692MHz	-35.18		-35.04	-31.06
	26	2690MHz to 2691MHz	-34.72	58	-35.73	-31.06
		2691MHz to 2692MHz	-35.04		-35.25	-31.06
	27	2690MHz to 2691MHz	-35.67	59	-35.13	-31.06
		2691MHz to 2692MHz	-35.05		-34.80	-31.06
	28	2690MHz to 2691MHz	-35.48	60	-35.36	-31.06
		2691MHz to 2692MHz	-35.19		-34.92	-31.06
	29	2690MHz to 2691MHz	-35.47	61	-35.29	-31.06
		2691MHz to 2692MHz	-35.31		-35.15	-31.06
	30	2690MHz to 2691MHz	-35.43	62	-35.37	-31.06
		2691MHz to 2692MHz	-35.63		-35.22	-31.06
31	2690MHz to 2691MHz	-34.85	63	-34.35	-31.06	
	2691MHz to 2692MHz	-35.06		-34.57	-31.06	

**Table 7-32. Band Edge Emission Summary Data  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Contiguous\_High Channel)**

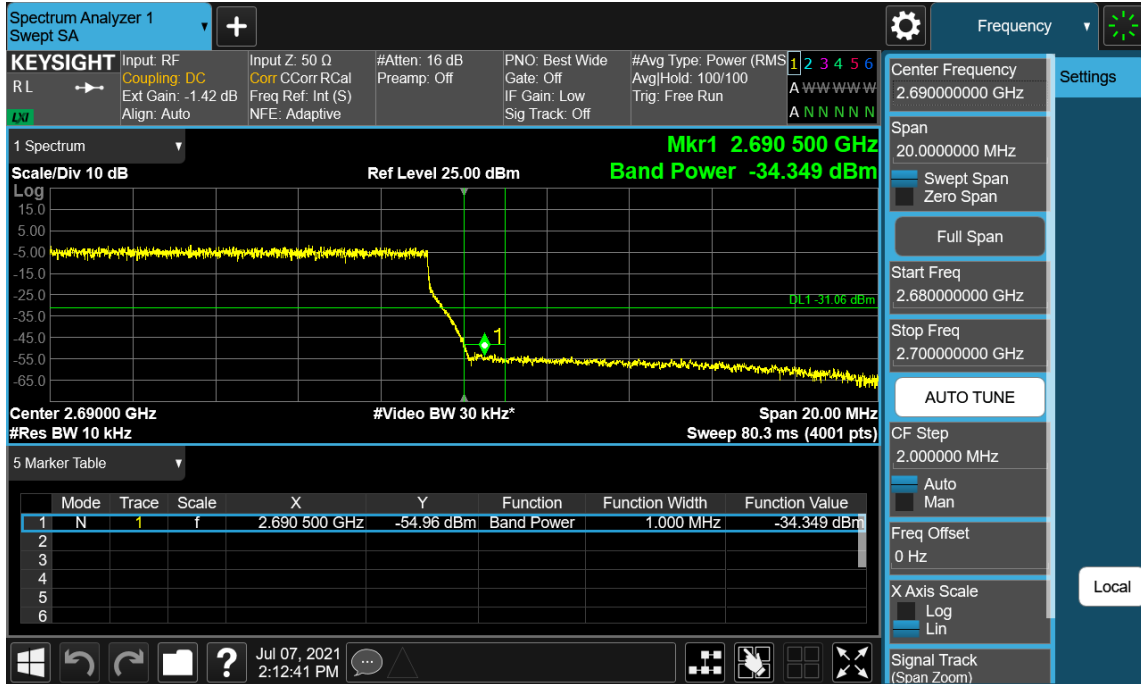
FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT (Certification)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> BK21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 114 of 201	



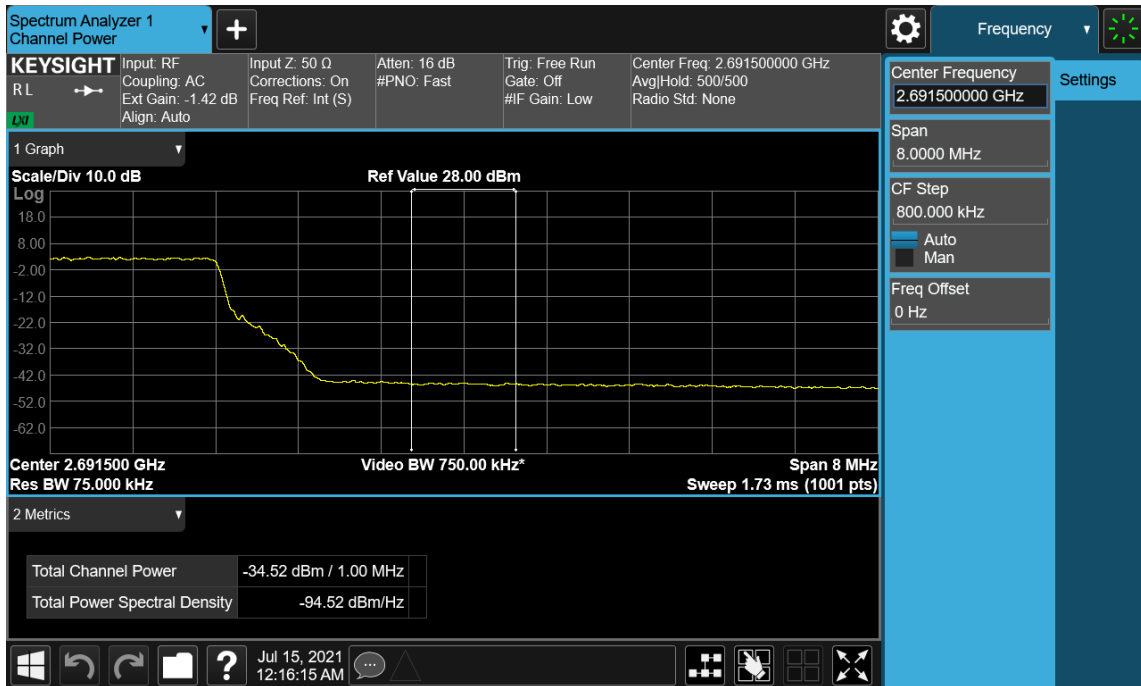


FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 115 of 201





Plot 7-99. Band Edge Emission (2690MHz to 2691MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Contiguous - High Channel\_Port 63)



Plot 7-100. Band Edge Emission (2691MHz to 2692MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Contiguous - High Channel\_Port 0)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 116 of 201

**- Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Non-contiguous Configuraiton**

Channel	Port #	Measurement Range	Level(dBm)	Port #	Level(dBm)	Limit (dBm)
Low	0	2495MHz to 2496MHz	-37.64	32	-36.75	-31.06
		2494MHz to 2495MHz	-36.13		-36.48	-31.06
	1	2495MHz to 2496MHz	-37.42	33	-36.27	-31.06
		2494MHz to 2495MHz	-36.06		-36.44	-31.06
	2	2495MHz to 2496MHz	-37.59	34	-37.43	-31.06
		2494MHz to 2495MHz	-36.19		-35.37	-31.06
	3	2495MHz to 2496MHz	-37.30	35	-36.93	-31.06
		2494MHz to 2495MHz	-36.00		-35.90	-31.06
	4	2495MHz to 2496MHz	-36.21	36	-36.53	-31.06
		2494MHz to 2495MHz	-36.57		-35.76	-31.06
	5	2495MHz to 2496MHz	-37.27	37	-37.10	-31.06
		2494MHz to 2495MHz	-36.13		-35.47	-31.06
	6	2495MHz to 2496MHz	-37.04	38	-37.03	-31.06
		2494MHz to 2495MHz	-36.64		-35.84	-31.06
	7	2495MHz to 2496MHz	-38.06	39	-36.88	-31.06
		2494MHz to 2495MHz	-36.25		-35.59	-31.06
	8	2495MHz to 2496MHz	-36.86	40	-36.72	-31.06
		2494MHz to 2495MHz	-36.22		-36.26	-31.06
	9	2495MHz to 2496MHz	-37.82	41	-36.37	-31.06
		2494MHz to 2495MHz	-35.70		-36.08	-31.06
	10	2495MHz to 2496MHz	-36.47	42	-37.79	-31.06
		2494MHz to 2495MHz	-36.43		-36.28	-31.06
	11	2495MHz to 2496MHz	-38.12	43	-36.98	-31.06
		2494MHz to 2495MHz	-36.58		-35.86	-31.06
	12	2495MHz to 2496MHz	-37.23	44	-37.61	-31.06
		2494MHz to 2495MHz	-36.04		-35.78	-31.06
	13	2495MHz to 2496MHz	-37.93	45	-37.20	-31.06
		2494MHz to 2495MHz	-36.01		-35.68	-31.06
	14	2495MHz to 2496MHz	-36.85	46	-37.31	-31.06
		2494MHz to 2495MHz	-36.66		-35.83	-31.06
	15	2495MHz to 2496MHz	-37.80	47	-36.40	-31.06
2494MHz to 2495MHz		-36.48	-35.68		-31.06	
16	2495MHz to 2496MHz	-37.07	48	-36.88	-31.06	
	2494MHz to 2495MHz	-35.88		-35.65	-31.06	
17	2495MHz to 2496MHz	-37.79	49	-37.05	-31.06	
	2494MHz to 2495MHz	-36.58		-36.39	-31.06	
18	2495MHz to 2496MHz	-36.92	50	-36.59	-31.06	
	2494MHz to 2495MHz	-35.82		-35.64	-31.06	
19	2495MHz to 2496MHz	-37.67	51	-36.29	-31.06	
	2494MHz to 2495MHz	-35.91		-35.96	-31.06	
20	2495MHz to 2496MHz	-37.18	52	-36.29	-31.06	
	2494MHz to 2495MHz	-36.27		-36.41	-31.06	
21	2495MHz to 2496MHz	-37.93	53	-36.58	-31.06	
	2494MHz to 2495MHz	-36.98		-35.97	-31.06	
22	2495MHz to 2496MHz	-36.81	54	-36.16	-31.06	
	2494MHz to 2495MHz	-35.98		-35.75	-31.06	
23	2495MHz to 2496MHz	-37.30	55	-36.30	-31.06	
	2494MHz to 2495MHz	-35.47		-36.38	-31.06	
24	2495MHz to 2496MHz	-36.85	56	-36.75	-31.06	
	2494MHz to 2495MHz	-36.24		-35.76	-31.06	
25	2495MHz to 2496MHz	-37.13	57	-36.39	-31.06	
	2494MHz to 2495MHz	-36.68		-36.40	-31.06	
26	2495MHz to 2496MHz	-37.33	58	-36.10	-31.06	
	2494MHz to 2495MHz	-36.10		-35.42	-31.06	
27	2495MHz to 2496MHz	-37.76	59	-36.23	-31.06	
	2494MHz to 2495MHz	-35.97		-35.71	-31.06	
28	2495MHz to 2496MHz	-37.62	60	-36.93	-31.06	
	2494MHz to 2495MHz	-36.27		-35.96	-31.06	
29	2495MHz to 2496MHz	-36.96	61	-36.84	-31.06	
	2494MHz to 2495MHz	-36.65		-36.17	-31.06	
30	2495MHz to 2496MHz	-37.44	62	-37.64	-31.06	
	2494MHz to 2495MHz	-36.48		-35.61	-31.06	
31	2495MHz to 2496MHz	-36.42	63	-35.83	-31.06	
	2494MHz to 2495MHz	-36.20		-35.83	-31.06	

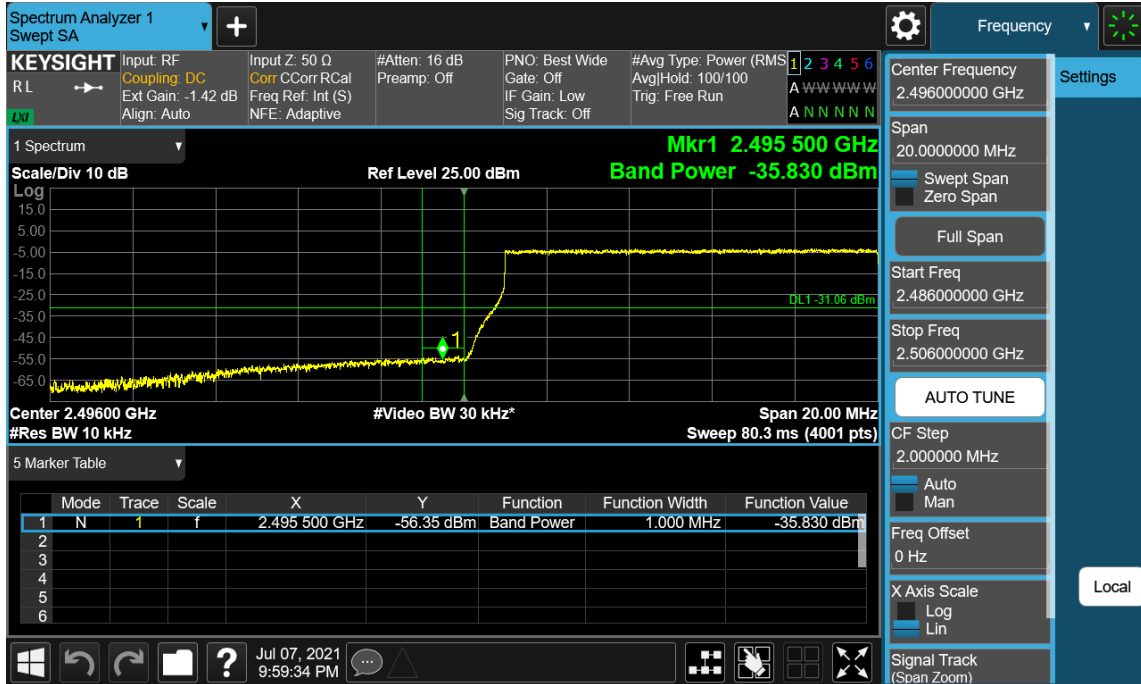
**Table 7-33. Band Edge Emission Summary Data  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Non-Contiguous\_Low Channel)**

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT (Certification)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 117 of 201

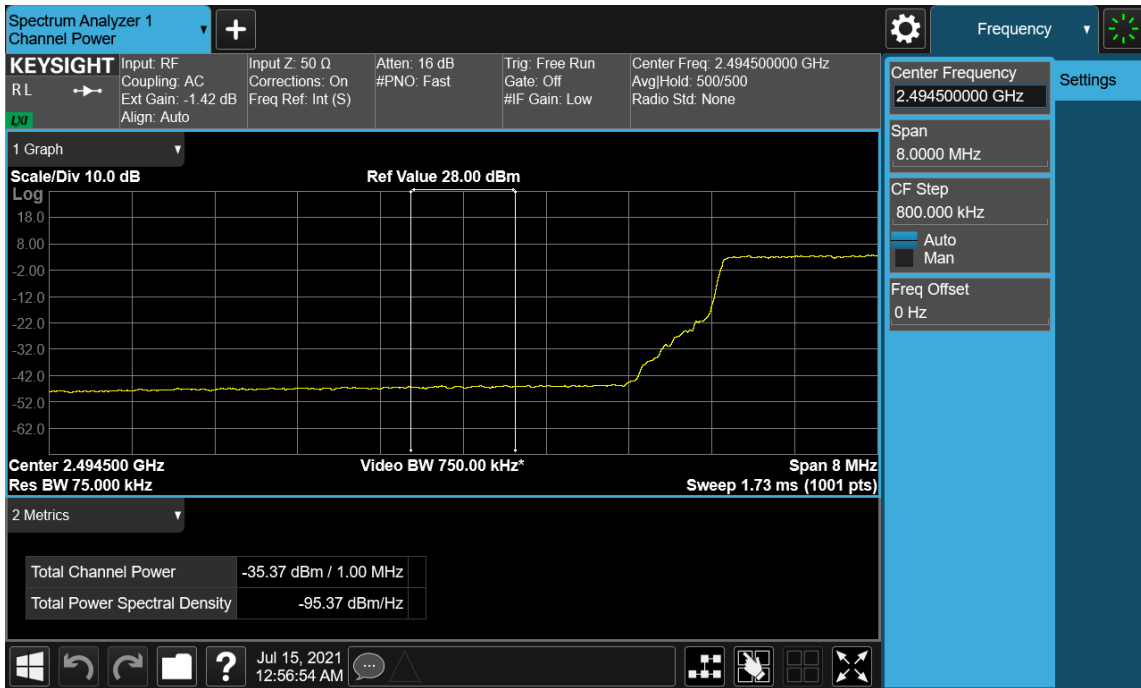
Channel	Port #	Measurement Range	Level(dBm)	Port #	Level(dBm)	Limit (dBm)
High	0	2690MHz to 2691MHz	-35.38	32	-35.39	-31.06
		2691MHz to 2692MHz	-34.83		-35.03	-31.06
	1	2690MHz to 2691MHz	-35.38	33	-34.46	-31.06
		2691MHz to 2692MHz	-35.07		-35.17	-31.06
	2	2690MHz to 2691MHz	-35.53	34	-35.04	-31.06
		2691MHz to 2692MHz	-35.08		-34.44	-31.06
	3	2690MHz to 2691MHz	-35.43	35	-35.27	-31.06
		2691MHz to 2692MHz	-35.28		-34.88	-31.06
	4	2690MHz to 2691MHz	-34.66	36	-34.66	-31.06
		2691MHz to 2692MHz	-35.37		-34.72	-31.06
	5	2690MHz to 2691MHz	-34.91	37	-35.16	-31.06
		2691MHz to 2692MHz	-34.64		-34.23	-31.06
	6	2690MHz to 2691MHz	-35.52	38	-35.50	-31.06
		2691MHz to 2692MHz	-35.27		-35.03	-31.06
	7	2690MHz to 2691MHz	-36.37	39	-35.38	-31.06
		2691MHz to 2692MHz	-35.43		-34.54	-31.06
	8	2690MHz to 2691MHz	-35.36	40	-35.17	-31.06
		2691MHz to 2692MHz	-35.01		-34.65	-31.06
	9	2690MHz to 2691MHz	-35.69	41	-34.54	-31.06
		2691MHz to 2692MHz	-34.70		-35.10	-31.06
	10	2690MHz to 2691MHz	-34.96	42	-35.48	-31.06
		2691MHz to 2692MHz	-35.20		-35.00	-31.06
	11	2690MHz to 2691MHz	-35.84	43	-35.12	-31.06
		2691MHz to 2692MHz	-35.40		-34.87	-31.06
	12	2690MHz to 2691MHz	-35.13	44	-35.57	-31.06
		2691MHz to 2692MHz	-34.76		-34.74	-31.06
	13	2690MHz to 2691MHz	-35.62	45	-35.30	-31.06
		2691MHz to 2692MHz	-34.87		-34.63	-31.06
	14	2690MHz to 2691MHz	-34.78	46	-35.88	-31.06
		2691MHz to 2692MHz	-35.33		-35.01	-31.06
	15	2690MHz to 2691MHz	-36.06	47	-34.57	-31.06
		2691MHz to 2692MHz	-34.98		-34.69	-31.06
	16	2690MHz to 2691MHz	-35.54	48	-35.13	-31.06
		2691MHz to 2692MHz	-34.56		-34.62	-31.06
	17	2690MHz to 2691MHz	-35.46	49	-35.06	-31.06
		2691MHz to 2692MHz	-34.97		-34.94	-31.06
	18	2690MHz to 2691MHz	-35.25	50	-35.29	-31.06
		2691MHz to 2692MHz	-35.11		-34.83	-31.06
	19	2690MHz to 2691MHz	-35.74	51	-34.95	-31.06
		2691MHz to 2692MHz	-34.56		-34.99	-31.06
	20	2690MHz to 2691MHz	-35.03	52	-34.76	-31.06
		2691MHz to 2692MHz	-34.84		-35.15	-31.06
	21	2690MHz to 2691MHz	-35.50	53	-34.97	-31.06
		2691MHz to 2692MHz	-35.49		-35.04	-31.06
	22	2690MHz to 2691MHz	-35.23	54	-35.43	-31.06
		2691MHz to 2692MHz	-34.97		-34.90	-31.06
	23	2690MHz to 2691MHz	-35.72	55	-35.13	-31.06
		2691MHz to 2692MHz	-34.60		-35.24	-31.06
	24	2690MHz to 2691MHz	-35.70	56	-35.06	-31.06
		2691MHz to 2692MHz	-34.90		-34.92	-31.06
	25	2690MHz to 2691MHz	-35.67	57	-35.21	-31.06
		2691MHz to 2692MHz	-35.23		-35.20	-31.06
	26	2690MHz to 2691MHz	-34.79	58	-35.45	-31.06
		2691MHz to 2692MHz	-34.80		-34.95	-31.06
	27	2690MHz to 2691MHz	-35.71	59	-34.86	-31.06
		2691MHz to 2692MHz	-34.78		-34.75	-31.06
	28	2690MHz to 2691MHz	-34.97	60	-35.37	-31.06
		2691MHz to 2692MHz	-34.98		-34.85	-31.06
	29	2690MHz to 2691MHz	-35.22	61	-35.44	-31.06
		2691MHz to 2692MHz	-35.16		-34.53	-31.06
	30	2690MHz to 2691MHz	-35.36	62	-35.24	-31.06
		2691MHz to 2692MHz	-35.39		-34.66	-31.06
31	2690MHz to 2691MHz	-35.33	63	-34.11	-31.06	
	2691MHz to 2692MHz	-35.03		-34.57	-31.06	

**Table 7-34. Band Edge Emission Summary Data**  
**(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Non-Contiguous\_High Channel)**

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> BK21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 118 of 201	



Plot 7-101. Band Edge Emission (2495MHz to 2496MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Non-Contiguous - Low Channel\_Port 63)

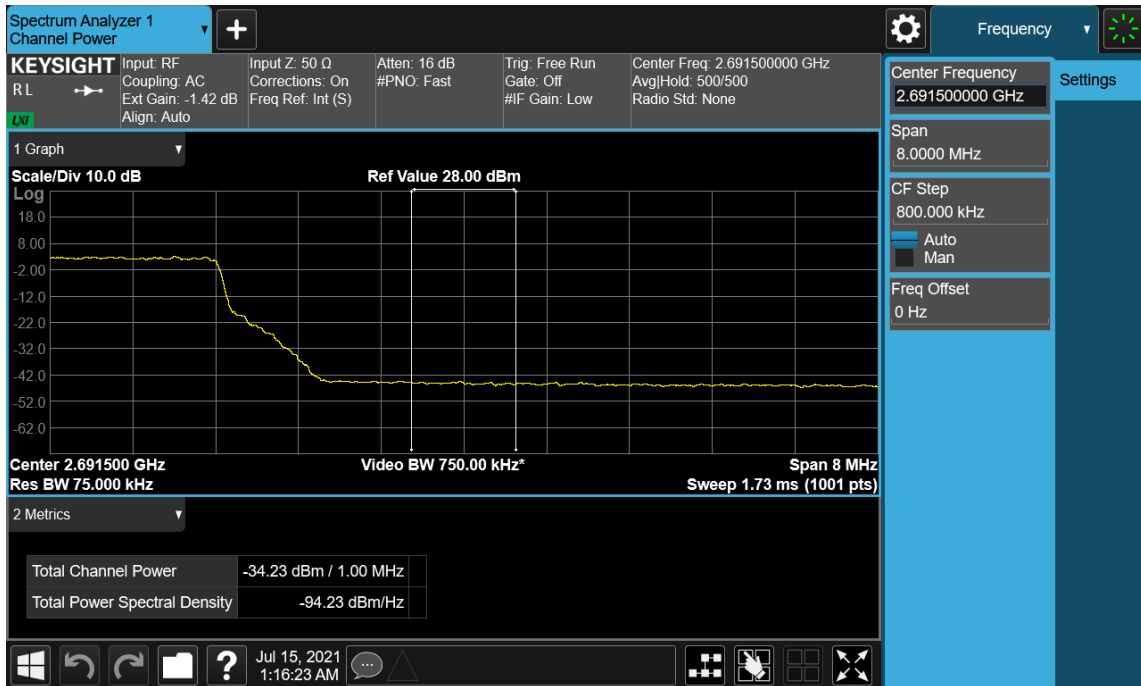


Plot 7-102. Band Edge Emission (2494MHz to 2495MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Non-Contiguous - Low Channel\_Port 34)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 8K21060701-R1.A3L	Test Dates: 06/10/2021-07/27/2021	EUT Type: MMU(MT6411)		Page 119 of 201



Plot 7-103. Band Edge Emission (2690MHz to 2691MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Non-Contiguous - High Channel\_Port 63)



Plot 7-104. Band Edge Emission (2691MHz to 2692MHz) Plot  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Non-Contiguous - High Channel\_Port 37)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 8K21060701-R1.A3L	Test Dates: 06/10/2021-07/27/2021	EUT Type: MMU(MT6411)		Page 120 of 201

## 7.6 Spurious and Harmonic Emissions at Antenna Terminal

§ 2.1051, § 27.53(m)

### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

### Test Procedure Used

KDB 971168 D01 v03r01 – Section 6

KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements

a) Absolute Emission Limits

iii) Measure and add  $10 \log(N_{ANT})$  dB

ANSI C63.26-2015 – Section 5.7



### Test Setting

1. Start frequency was set to 9 kHz and stop frequency was set to at least  $10 \times$  the fundamental frequency excluding the frequency range of the band edge measurement.
2. RBW: Please see test notes below.
3. VBW  $\geq 3 \times$  RBW
4. Detector = RMS
5. Number of sweep points  $\geq 2 \times$  Span/RBW
6. Trace mode = trace average
7. Sweep time = auto couple
8. The trace was allowed to stabilize

### Limit

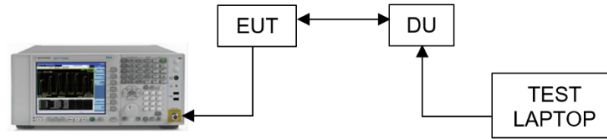
The minimum permissible attenuation level of any spurious emission is  $43 + \log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

The power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -31.06 dBm [ $-13 \text{ dBm} - 10 \log(64)$ ] per KDB 662911 D01 v02r01 - section E)3) because the EUT operate as a 64 port MIMO transmitter.

FCC ID: A3LMT6411-41A		MEASUREMENT REPORT (Certification)		Approved by: Technical Manager
Test Report S/N: 8K21060701-R1.A3L	Test Dates: 06/10/2021-07/27/2021	EUT Type: MMU(MT6411)	Page 121 of 201	

**Test Setup**



The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-6. Test Instrument & Measurement Setup**

**Test Notes**


- Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- The port with highest level i.e. worst case port per each test range has been highlighted in the following emission tables.
- Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M and Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M were determined as the worst case configuration compared to Single RAT LTE 20M+20M+20M and NR 80M and 100M cases.
- For intentional emissions, a duty cycle correction factor was applied.  
 For LTE mode,  
 Duty cycle = transmit on-time / transmitter period = 3.645 ms / 5.01 ms = 0.73  
 Duty cycle correction factor =  $10 \cdot \log(1/\text{duty cycle}) = 10 \cdot \log(1/0.73) = 1.38 \text{ dB}$   
 For NR mode,  
 Duty cycle = transmit on-time / transmitter period = 3.608 ms / 5.002 ms = 0.72  
 Duty cycle correction factor =  $10 \cdot \log(1/\text{duty cycle}) = 10 \cdot \log(1/0.73) = 1.42 \text{ dB}$   
 1.42 dB was applied as the worst value.  
 This value has been applied as reference offset in the spectrum analyzer.
- The limit for the 9kHz to 150kHz frequency range was adjusted to -69dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.:  $-69.06\text{dBm} = -31.06\text{dBm} - 10\log(1\text{MHz}/1\text{kHz})$ ].  
 The limit for the 150kHz to 30MHz frequency range was adjusted to -51dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.:  $-51\text{dBm} = -31.06\text{dBm} - 10\log(1\text{MHz}/10\text{kHz})$ ].  
 The limit for the 2400MHz to 2494Hz frequency range was adjusted to -41dBm to correct for a spectrum analyzer RBW of 100kHz versus required RBW of 1MHz [i.e.:  $-41\text{dBm} = -31.06\text{dBm} - 10\log(1\text{MHz}/100\text{kHz})$ ].  
 The required limit of -31dBm with a RBW of  $\geq 1\text{MHz}$  was used for all other frequency ranges.

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 122 of 201	



### - Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous Configuraiton

Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Low	9 kHz to 150 kHz	0	-72.20	7	14	21	-72.28	-72.07	-61.06	
	150 kHz to 30 MHz		-58.97				-58.10	-59.70	-59.33	-51.06
	30 MHz to 2400 MHz		-47.71				-47.29	-48.49	-48.67	-31.06
	2400 MHz to 2494 GHz		-45.92				-46.25	-47.35	-46.85	-41.06
	2692 MHz to 3 GHz		-38.59				-39.12	-38.96	-39.70	-31.06
	3 GHz to 18 GHz		-44.20				-43.06	-43.31	-44.52	-31.06
	18 GHz to 27 GHz		-52.07				-51.62	-51.58	-51.28	-31.06
	9 kHz to 150 kHz	1	-71.98	8	15	22	-72.41	-71.77	-61.06	
	150 kHz to 30 MHz		-57.88				-58.19	-58.13	-56.74	-51.06
	30 MHz to 2400 MHz		-47.89				-48.38	-47.66	-47.76	-31.06
	2400 MHz to 2494 GHz		-46.28				-47.06	-47.25	-46.50	-41.06
	2692 MHz to 3 GHz		-38.62				-38.40	-38.91	-39.35	-31.06
	3 GHz to 18 GHz		-44.26				-43.25	-43.70	-45.13	-31.06
	18 GHz to 27 GHz		-51.72				-51.57	-51.50	-51.60	-31.06
	9 kHz to 150 kHz	2	-72.23	9	16	23	-71.82	-72.59	-61.06	
	150 kHz to 30 MHz		-58.24				-57.37	-57.75	-56.81	-51.06
	30 MHz to 2400 MHz		-47.59				-48.68	-47.66	-48.06	-31.06
	2400 MHz to 2494 GHz		-47.00				-46.67	-46.15	-46.47	-41.06
	2692 MHz to 3 GHz		-39.67				-38.95	-38.73	-39.26	-31.06
	3 GHz to 18 GHz		-44.39				-44.76	-44.12	-43.21	-31.06
	18 GHz to 27 GHz		-51.28				-51.42	-51.75	-51.66	-31.06
	9 kHz to 150 kHz	3	-72.37	10	17	24	-71.92	-72.33	-61.06	
	150 kHz to 30 MHz		-58.97				-59.13	-57.52	-55.42	-51.06
	30 MHz to 2400 MHz		-47.85				-48.00	-48.73	-46.69	-31.06
	2400 MHz to 2494 GHz		-46.61				-46.77	-46.38	-45.93	-41.06
	2692 MHz to 3 GHz		-38.36				-38.84	-38.66	-38.44	-31.06
	3 GHz to 18 GHz		-44.30				-45.35	-44.34	-43.04	-31.06
	18 GHz to 27 GHz		-50.80				-51.61	-51.17	-51.42	-31.06
	9 kHz to 150 kHz	4	-72.40	11	18	25	-72.18	-71.89	-61.06	
	150 kHz to 30 MHz		-59.96				-58.51	-56.73	-56.77	-51.06
	30 MHz to 2400 MHz		-47.55				-48.42	-48.20	-48.38	-31.06
	2400 MHz to 2494 GHz		-46.79				-46.68	-46.16	-46.32	-41.06
	2692 MHz to 3 GHz		-38.94				-38.74	-38.51	-38.96	-31.06
	3 GHz to 18 GHz		-44.36				-43.24	-44.22	-44.07	-31.06
	18 GHz to 27 GHz		-51.56				-51.49	-51.40	-51.10	-31.06
	9 kHz to 150 kHz	5	-72.00	12	19	26	-72.05	-72.05	-61.06	
	150 kHz to 30 MHz		-57.80				-59.94	-58.48	-59.25	-51.06
	30 MHz to 2400 MHz		-48.49				-46.90	-47.33	-47.82	-31.06
	2400 MHz to 2494 GHz		-45.95				-46.72	-46.42	-46.97	-41.06
	2692 MHz to 3 GHz		-38.48				-38.57	-37.65	-38.87	-31.06
	3 GHz to 18 GHz		-44.50				-43.34	-43.87	-44.34	-31.06
	18 GHz to 27 GHz		-51.45				-51.35	-51.75	-51.62	-31.06
	9 kHz to 150 kHz	6	-72.57	13	20	27	-71.98	-71.86	-61.06	
	150 kHz to 30 MHz		-57.24				-58.40	-54.64	-58.44	-51.06
	30 MHz to 2400 MHz		-47.54				-47.60	-46.64	-47.66	-31.06
	2400 MHz to 2494 GHz		-46.29				-47.34	-46.61	-46.86	-41.06
	2692 MHz to 3 GHz		-38.73				-39.15	-39.20	-39.69	-31.06
	3 GHz to 18 GHz		-43.95				-44.57	-45.08	-44.22	-31.06
18 GHz to 27 GHz	-51.87		-51.60				-51.72	-51.57	-31.06	

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 123 of 201	

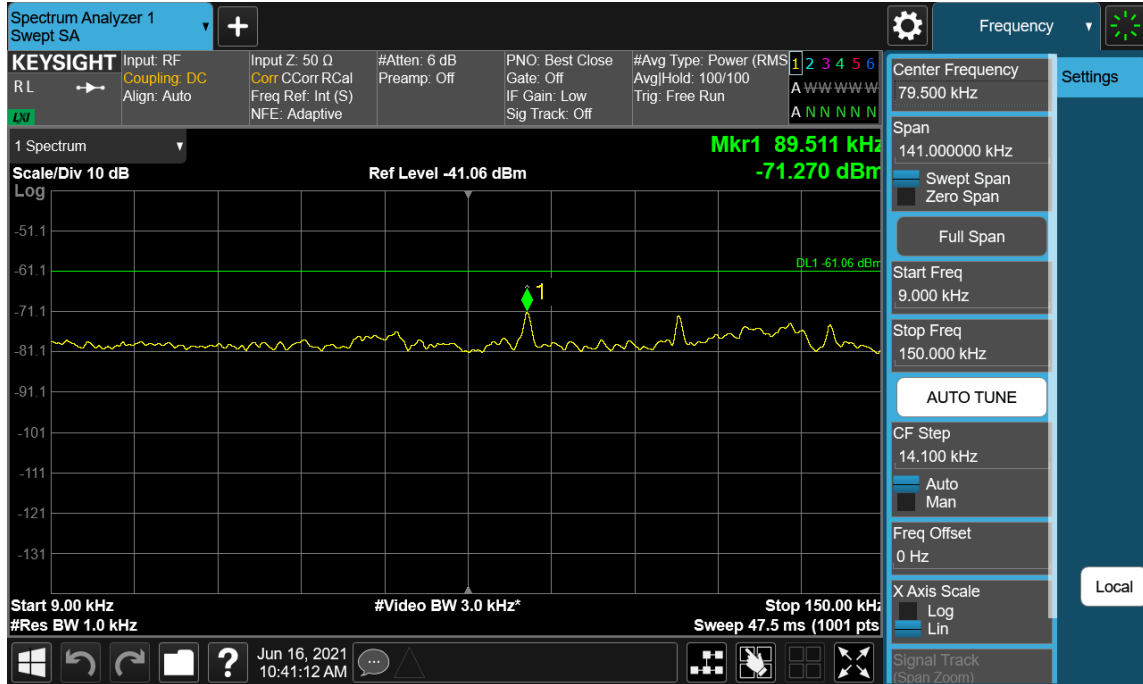
Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Low	9 kHz to 150 kHz	28	-72.54	35	-71.27	42	-72.42	49	-72.18	-61.06
	150 kHz to 30 MHz		-58.71		-59.32		-58.91		-59.87	-51.06
	30 MHz to 2400 MHz		-46.99		-48.30		-48.39		-47.08	-31.06
	2400 MHz to 2494 GHz		-46.56		-45.57		-47.72		-46.64	-41.06
	2692 MHz to 3 GHz		-38.61		-39.99		-41.46		-39.56	-31.06
	3 GHz to 18 GHz		-43.86		-43.38		-44.26		-44.04	-31.06
	18 GHz to 27 GHz		-51.47		-51.65		-50.77		-51.49	-31.06
	9 kHz to 150 kHz	29	-72.25	36	-71.76	43	-72.24	50	-71.61	-61.06
	150 kHz to 30 MHz		-58.94		-58.40		-59.14		-57.73	-51.06
	30 MHz to 2400 MHz		-48.52		-48.03		-48.12		-47.02	-31.06
	2400 MHz to 2494 GHz		-46.31		-46.39		-46.86		-46.35	-41.06
	2692 MHz to 3 GHz		-39.16		-39.17		-40.34		-38.03	-31.06
	3 GHz to 18 GHz		-44.24		-44.77		-44.48		-43.75	-31.06
	18 GHz to 27 GHz		-50.77		-51.20		-51.36		-51.58	-31.06
	9 kHz to 150 kHz	30	-71.76	37	-71.81	44	-72.17	51	-71.91	-61.06
	150 kHz to 30 MHz		-58.02		-58.94		-58.48		-59.70	-51.06
	30 MHz to 2400 MHz		-47.38		-48.69		-47.84		-47.57	-31.06
	2400 MHz to 2494 GHz		-46.53		-46.99		-46.96		-46.51	-41.06
	2692 MHz to 3 GHz		-39.03		-39.06		-40.86		-39.53	-31.06
	3 GHz to 18 GHz		-44.88		-44.11		-43.98		-44.15	-31.06
	18 GHz to 27 GHz		-51.12		-51.41		-51.69		-51.85	-31.06
	9 kHz to 150 kHz	31	-72.35	38	-72.31	45	-72.23	52	-72.26	-61.06
	150 kHz to 30 MHz		-58.54		-58.27		-58.42		-58.28	-51.06
	30 MHz to 2400 MHz		-47.84		-47.33		-47.35		-47.89	-31.06
	2400 MHz to 2494 GHz		-46.77		-46.27		-47.18		-46.45	-41.06
	2692 MHz to 3 GHz		-39.24		-39.51		-40.15		-39.58	-31.06
	3 GHz to 18 GHz		-44.10		-43.68		-45.14		-43.92	-31.06
	18 GHz to 27 GHz		-51.59		-51.29		-51.68		-51.48	-31.06
	9 kHz to 150 kHz	32	-71.54	39	-71.81	46	-72.12	53	-72.31	-61.06
	150 kHz to 30 MHz		-56.80		-57.88		-58.90		-57.86	-51.06
	30 MHz to 2400 MHz		-47.43		-47.71		-47.84		-46.25	-31.06
	2400 MHz to 2494 GHz		-46.47		-47.47		-46.67		-46.59	-41.06
	2692 MHz to 3 GHz		-39.52		-39.26		-39.40		-39.64	-31.06
	3 GHz to 18 GHz		-43.79		-44.09		-43.30		-43.73	-31.06
	18 GHz to 27 GHz		-51.67		-51.74		-52.01		-51.47	-31.06
	9 kHz to 150 kHz	33	-71.67	40	-72.36	47	-72.31	54	-71.90	-61.06
	150 kHz to 30 MHz		-58.22		-57.96		-58.25		-57.80	-51.06
	30 MHz to 2400 MHz		-46.56		-48.22		-47.42		-47.22	-31.06
	2400 MHz to 2494 GHz		-46.90		-47.33		-46.42		-45.80	-41.06
	2692 MHz to 3 GHz		-39.92		-41.09		-38.97		-39.06	-31.06
	3 GHz to 18 GHz		-43.97		-44.25		-44.99		-44.31	-31.06
	18 GHz to 27 GHz		-50.92		-52.01		-51.93		-51.61	-31.06
	9 kHz to 150 kHz	34	-72.27	41	-72.08	48	-71.74	55	-72.48	-61.06
	150 kHz to 30 MHz		-58.67		-59.33		-57.98		-59.45	-51.06
	30 MHz to 2400 MHz		-47.49		-48.23		-47.55		-47.65	-31.06
	2400 MHz to 2494 GHz		-46.94		-47.22		-47.56		-46.74	-41.06
	2692 MHz to 3 GHz		-39.01		-39.68		-39.77		-39.71	-31.06
	3 GHz to 18 GHz		-44.10		-43.88		-43.91		-42.77	-31.06
18 GHz to 27 GHz	-51.51		-51.99		-51.94		-51.47		-31.06	

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)			<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 124 of 201	

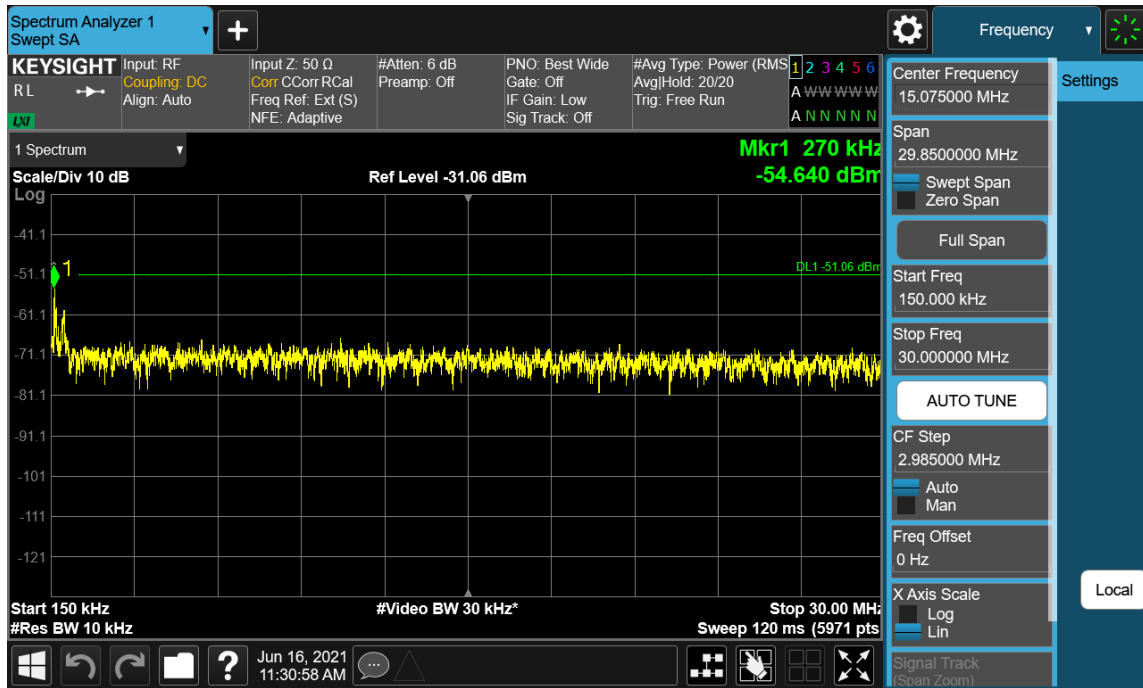
Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Low	9 kHz to 150 kHz	56	-71.74	60	-72.61	-61.06
	150 kHz to 30 MHz		-58.47		-59.16	-51.06
	30 MHz to 2400 MHz		-47.79		-47.01	-31.06
	2400 MHz to 2494 GHz		-46.93		-46.62	-41.06
	2692 MHz to 3 GHz		-39.21		-41.19	-31.06
	3 GHz to 18 GHz		-43.80		-43.74	-31.06
	18 GHz to 27 GHz		-51.64		-51.75	-31.06
	9 kHz to 150 kHz	57	-71.56	61	-72.07	-61.06
	150 kHz to 30 MHz		-59.15		-58.80	-51.06
	30 MHz to 2400 MHz		-48.08		-47.45	-31.06
	2400 MHz to 2494 GHz		-46.75		-47.47	-41.06
	2692 MHz to 3 GHz		-40.33		-39.36	-31.06
	3 GHz to 18 GHz		-42.49		-44.35	-31.06
	18 GHz to 27 GHz		-51.48		-50.28	-31.06
	9 kHz to 150 kHz	58	-72.17	62	-72.17	-61.06
	150 kHz to 30 MHz		-58.71		-59.46	-51.06
	30 MHz to 2400 MHz		-46.26		-47.69	-31.06
	2400 MHz to 2494 GHz		-45.72		-47.66	-41.06
	2692 MHz to 3 GHz		-38.78		-40.48	-31.06
	3 GHz to 18 GHz		-44.28		-44.66	-31.06
	18 GHz to 27 GHz		-51.74		-51.79	-31.06
	9 kHz to 150 kHz	59	-72.12	63	-72.78	-61.06
	150 kHz to 30 MHz		-59.40		-58.15	-51.06
	30 MHz to 2400 MHz		-47.78		-47.94	-31.06
2400 MHz to 2494 GHz	-47.12		-46.69		-41.06	
2692 MHz to 3 GHz	-39.77		-38.34		-31.06	
3 GHz to 18 GHz	-44.42		-43.99		-31.06	
18 GHz to 27 GHz	-51.86		-51.56		-31.06	

**Table 7-35. Conducted Spurious Emission Summary Data  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous\_Low Channel)**

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT (Certification)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 125 of 201



Plot 7-105. Conducted Spurious Emission Plot  
9 kHz to 150 kHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Low Channel\_Port 35)

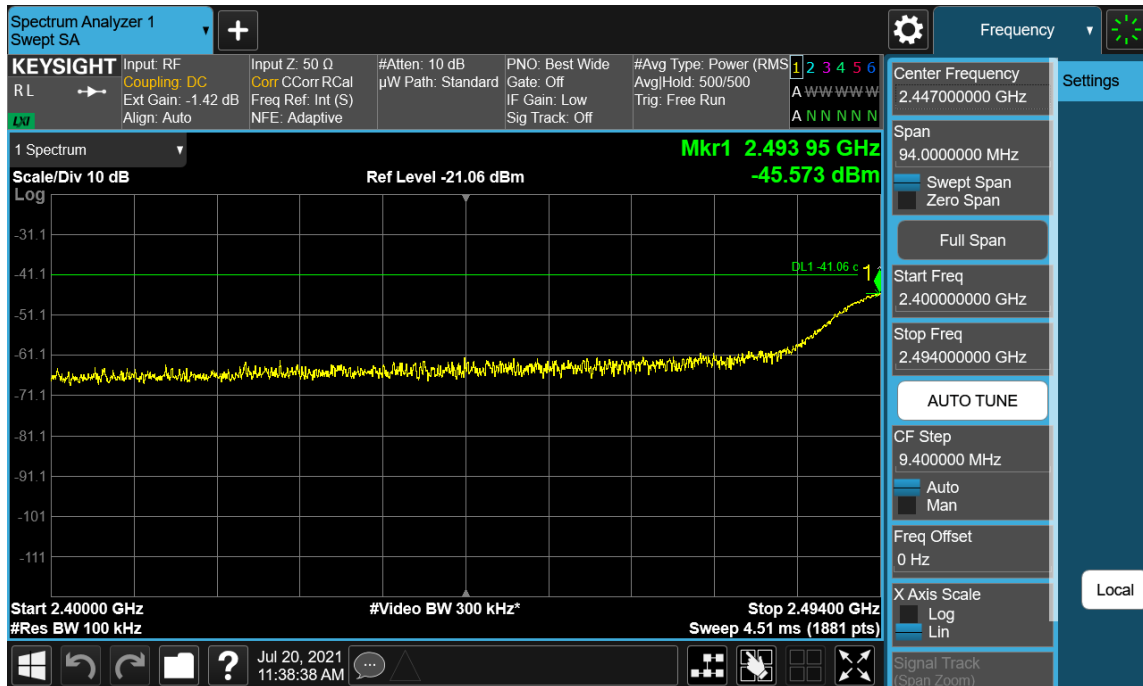


Plot 7-106. Conducted Spurious Emission Plot  
150 kHz to 30 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Low Channel\_Port 20)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 126 of 201

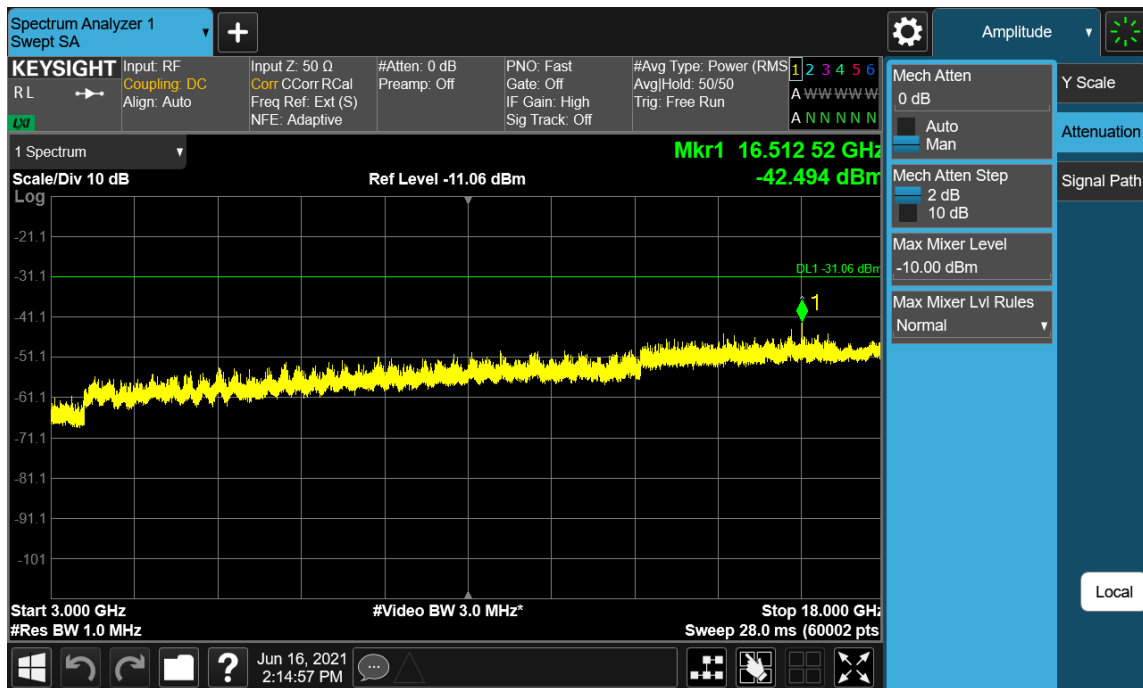
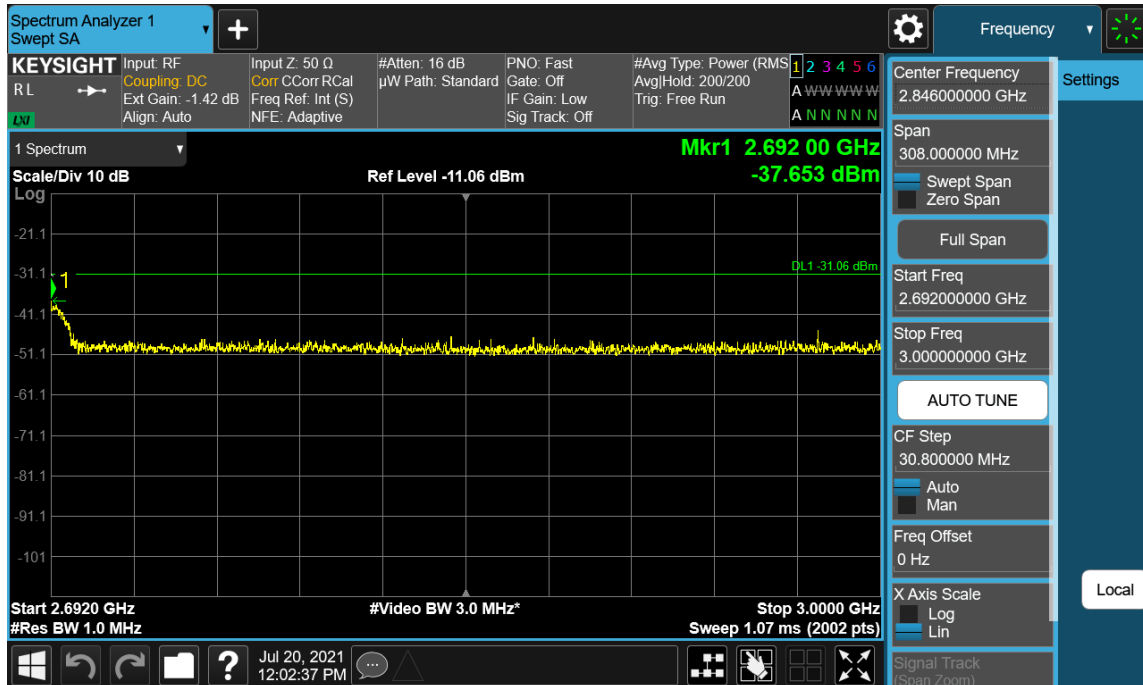


Plot 7-107. Conducted Spurious Emission Plot  
30 MHz to 2400 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Low Channel\_Port 53)

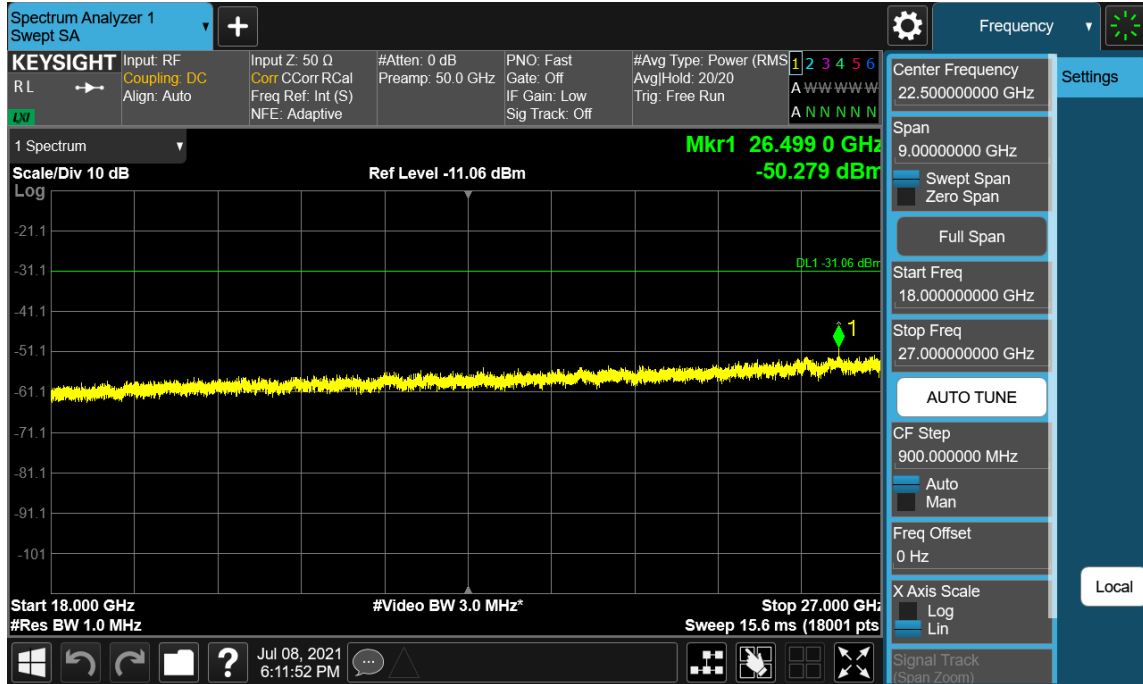


Plot 7-108. Conducted Spurious Emission Plot  
2400 MHz to 2494 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Low Channel\_Port 35)

FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)	<b>SAMSUNG</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 127 of 201



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<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 128 of 201





Plot 7-111. Conducted Spurious Emission Plot  
18 GHz to 27 GHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Low Channel\_Port 61)



FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 129 of 201



Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Middle	9 kHz to 150 kHz	0	-72.32	7	-72.40	14	-72.27	21	-72.52	-61.06
	150 kHz to 30 MHz		-57.75		-59.05		-56.98		-57.50	-51.06
	30 MHz to 2400 MHz		-48.48		-48.67		-47.81		-48.48	-31.06
	2400 MHz to 2494 GHz		-48.82		-50.31		-50.68		-50.26	-41.06
	2692 MHz to 3 GHz		-39.29		-39.97		-38.51		-40.09	-31.06
	3 GHz to 18 GHz		-44.21		-44.22		-42.96		-43.77	-31.06
	18 GHz to 27 GHz		-51.76		-51.53		-51.47		-51.03	-31.06
	9 kHz to 150 kHz	1	-72.62	8	-72.49	15	-72.17	22	-72.54	-61.06
	150 kHz to 30 MHz		-58.64		-57.57		-57.40		-58.01	-51.06
	30 MHz to 2400 MHz		-48.03		-48.07		-47.98		-48.38	-31.06
	2400 MHz to 2494 GHz		-50.34		-50.67		-50.64		-49.88	-41.06
	2692 MHz to 3 GHz		-38.53		-39.32		-39.34		-38.20	-31.06
	3 GHz to 18 GHz		-44.35		-43.85		-43.54		-44.29	-31.06
	18 GHz to 27 GHz		-51.57		-51.34		-51.87		-51.56	-31.06
	9 kHz to 150 kHz	2	-72.81	9	-71.94	16	-71.89	23	-72.60	-61.06
	150 kHz to 30 MHz		-58.05		-57.71		-59.19		-57.80	-51.06
	30 MHz to 2400 MHz		-48.45		-46.85		-47.22		-48.49	-31.06
	2400 MHz to 2494 GHz		-50.19		-50.50		-49.88		-50.13	-41.06
	2692 MHz to 3 GHz		-39.83		-39.45		-38.53		-39.62	-31.06
	3 GHz to 18 GHz		-44.30		-44.42		-44.51		-44.45	-31.06
	18 GHz to 27 GHz		-51.71		-51.53		-51.66		-51.32	-31.06
	9 kHz to 150 kHz	3	-72.15	10	-72.30	17	-72.04	24	-72.11	-61.06
	150 kHz to 30 MHz		-59.00		-58.89		-58.11		-58.84	-51.06
	30 MHz to 2400 MHz		-48.31		-48.14		-46.87		-48.09	-31.06
	2400 MHz to 2494 GHz		-50.12		-50.20		-50.73		-49.99	-41.06
	2692 MHz to 3 GHz		-40.43		-39.06		-39.54		-39.53	-31.06
	3 GHz to 18 GHz		-44.32		-44.34		-44.03		-44.45	-31.06
	18 GHz to 27 GHz		-50.90		-51.15		-51.65		-51.60	-31.06
	9 kHz to 150 kHz	4	-72.45	11	-72.22	18	-72.45	25	-72.48	-61.06
	150 kHz to 30 MHz		-58.23		-57.55		-57.14		-57.74	-51.06
30 MHz to 2400 MHz	-47.67		-47.22		-47.16		-47.44		-31.06	
2400 MHz to 2494 GHz	-49.44		-51.64		-50.49		-49.52		-41.06	
2692 MHz to 3 GHz	-38.32		-40.18		-39.45		-40.67		-31.06	
3 GHz to 18 GHz	-44.11		-43.77		-44.61		-43.38		-31.06	
18 GHz to 27 GHz	-52.13		-51.43		-51.53		-51.61		-31.06	
9 kHz to 150 kHz	5	-72.15	12	-72.20	19	-72.43	26	-72.19	-61.06	
150 kHz to 30 MHz		-58.28		-59.45		-57.30		-57.85	-51.06	
30 MHz to 2400 MHz		-47.33		-46.93		-47.91		-47.58	-31.06	
2400 MHz to 2494 GHz		-50.74		-50.49		-50.36		-49.83	-41.06	
2692 MHz to 3 GHz		-39.88		-39.66		-40.18		-38.25	-31.06	
3 GHz to 18 GHz		-43.58		-44.04		-44.86		-44.52	-31.06	
18 GHz to 27 GHz		-51.82		-51.40		-51.43		-51.90	-31.06	
9 kHz to 150 kHz	6	-72.41	13	-72.46	20	-71.96	27	-71.70	-61.06	
150 kHz to 30 MHz		-57.88		-57.49		-57.53		-57.22	-51.06	
30 MHz to 2400 MHz		-47.55		-47.90		-47.58		-47.93	-31.06	
2400 MHz to 2494 GHz		-50.65		-50.16		-50.11		-50.32	-41.06	
2692 MHz to 3 GHz		-39.27		-40.25		-39.15		-40.13	-31.06	
3 GHz to 18 GHz		-43.91		-44.33		-44.33		-44.96	-31.06	
18 GHz to 27 GHz		-52.01		-52.07		-51.13		-52.06	-31.06	

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Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Middle	9 kHz to 150 kHz	28	-72.68	35	-72.18	42	-72.57	49	-72.02	-61.06
	150 kHz to 30 MHz		-58.44		-57.43		-58.08		-55.88	-51.06
	30 MHz to 2400 MHz		-48.04		-48.15		-48.15		-47.00	-31.06
	2400 MHz to 2494 GHz		-51.08		-49.80		-50.33		-49.98	-41.06
	2692 MHz to 3 GHz		-39.79		-39.32		-40.43		-39.56	-31.06
	3 GHz to 18 GHz		-43.86		-43.53		-44.06		-44.23	-31.06
	18 GHz to 27 GHz		-51.33		-51.67		-51.45		-51.86	-31.06
	9 kHz to 150 kHz	29	-72.68	36	-72.15	43	-72.28	50	-72.13	-61.06
	150 kHz to 30 MHz		-58.80		-58.88		-57.12		-56.87	-51.06
	30 MHz to 2400 MHz		-48.51		-47.58		-47.46		-47.77	-31.06
	2400 MHz to 2494 GHz		-49.56		-50.24		-49.88		-50.07	-41.06
	2692 MHz to 3 GHz		-39.27		-38.41		-39.27		-39.44	-31.06
	3 GHz to 18 GHz		-44.15		-43.78		-44.72		-44.25	-31.06
	18 GHz to 27 GHz		-51.49		-51.70		-51.76		-51.48	-31.06
	9 kHz to 150 kHz	30	-72.52	37	-72.50	44	-72.51	51	-72.50	-61.06
	150 kHz to 30 MHz		-59.35		-58.82		-58.51		-58.28	-51.06
	30 MHz to 2400 MHz		-48.15		-47.46		-48.11		-47.27	-31.06
	2400 MHz to 2494 GHz		-50.72		-50.78		-49.75		-49.11	-41.06
	2692 MHz to 3 GHz		-39.81		-39.92		-39.42		-39.02	-31.06
	3 GHz to 18 GHz		-44.15		-43.53		-44.99		-43.61	-31.06
	18 GHz to 27 GHz		-51.81		-52.05		-51.41		-51.94	-31.06
	9 kHz to 150 kHz	31	-72.34	38	-72.06	45	-72.61	52	-72.53	-61.06
	150 kHz to 30 MHz		-56.95		-56.75		-57.98		-59.33	-51.06
	30 MHz to 2400 MHz		-47.91		-47.84		-48.13		-47.16	-31.06
	2400 MHz to 2494 GHz		-49.35		-51.32		-50.01		-50.15	-41.06
	2692 MHz to 3 GHz		-39.12		-39.91		-39.25		-39.41	-31.06
	3 GHz to 18 GHz		-43.93		-43.30		-45.37		-44.02	-31.06
	18 GHz to 27 GHz		-51.20		-51.94		-51.83		-51.72	-31.06
	9 kHz to 150 kHz	32	-71.86	39	-72.21	46	-72.51	53	-72.14	-61.06
	150 kHz to 30 MHz		-58.97		-57.32		-57.31		-58.29	-51.06
	30 MHz to 2400 MHz		-47.76		-47.80		-47.36		-47.57	-31.06
	2400 MHz to 2494 GHz		-49.66		-49.96		-49.73		-49.99	-41.06
	2692 MHz to 3 GHz		-38.56		-37.94		-39.86		-38.48	-31.06
	3 GHz to 18 GHz		-44.17		-43.65		-44.66		-44.02	-31.06
	18 GHz to 27 GHz		-51.33		-51.04		-51.25		-51.85	-31.06
	9 kHz to 150 kHz	33	-72.48	40	-72.42	47	-72.53	54	-72.13	-61.06
	150 kHz to 30 MHz		-60.28		-58.31		-57.25		-57.44	-51.06
	30 MHz to 2400 MHz		-47.73		-47.54		-47.35		-47.42	-31.06
	2400 MHz to 2494 GHz		-49.80		-50.34		-49.08		-49.73	-41.06
	2692 MHz to 3 GHz		-38.90		-39.68		-37.96		-38.41	-31.06
	3 GHz to 18 GHz		-44.05		-44.34		-44.18		-43.96	-31.06
	18 GHz to 27 GHz		-51.75		-52.00		-51.97		-51.51	-31.06
	9 kHz to 150 kHz	34	-72.33	41	-72.52	48	-72.01	55	-72.11	-61.06
	150 kHz to 30 MHz		-56.73		-57.21		-57.79		-58.07	-51.06
	30 MHz to 2400 MHz		-48.36		-48.59		-48.47		-47.65	-31.06
	2400 MHz to 2494 GHz		-50.90		-49.63		-50.00		-50.04	-41.06
	2692 MHz to 3 GHz		-39.47		-38.90		-38.65		-39.10	-31.06
	3 GHz to 18 GHz		-44.39		-43.85		-44.10		-44.33	-31.06
18 GHz to 27 GHz	-51.28		-51.68		-51.55		-51.11		-31.06	

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Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Middle	9 kHz to 150 kHz	56	-71.90	60	-72.64	-61.06
	150 kHz to 30 MHz		-57.29		-56.71	-51.06
	30 MHz to 2400 MHz		-47.22		-46.68	-31.06
	2400 MHz to 2494 GHz		-50.01		-49.57	-41.06
	2692 MHz to 3 GHz		-38.46		-38.89	-31.06
	3 GHz to 18 GHz		-43.93		-44.28	-31.06
	18 GHz to 27 GHz		-51.02		-51.66	-31.06
	9 kHz to 150 kHz	57	-72.49	61	-72.47	-61.06
	150 kHz to 30 MHz		-57.82		-57.15	-51.06
	30 MHz to 2400 MHz		-47.93		-47.79	-31.06
	2400 MHz to 2494 GHz		-49.18		-50.22	-41.06
	2692 MHz to 3 GHz		-37.53		-38.63	-31.06
	3 GHz to 18 GHz		-44.31		-43.54	-31.06
	18 GHz to 27 GHz		-51.45		-51.70	-31.06
	9 kHz to 150 kHz	58	-72.17	62	-72.96	-61.06
	150 kHz to 30 MHz		-57.68		-58.50	-51.06
	30 MHz to 2400 MHz		-47.71		-47.36	-31.06
	2400 MHz to 2494 GHz		-49.52		-49.94	-41.06
	2692 MHz to 3 GHz		-39.85		-40.99	-31.06
	3 GHz to 18 GHz		-44.99		-44.05	-31.06
	18 GHz to 27 GHz		-51.79		-51.52	-31.06
	9 kHz to 150 kHz	59	-72.78	63	-72.44	-61.06
	150 kHz to 30 MHz		-59.23		-58.67	-51.06
	30 MHz to 2400 MHz		-47.62		-46.39	-31.06
2400 MHz to 2494 GHz	-49.89		-49.91		-41.06	
2692 MHz to 3 GHz	-38.97		-37.85		-31.06	
3 GHz to 18 GHz	-44.33		-44.12		-31.06	
18 GHz to 27 GHz	-51.35		-51.34		-31.06	

**Table 7-36. Conducted Spurious Emission Summary Data  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous\_Middle Channel)**

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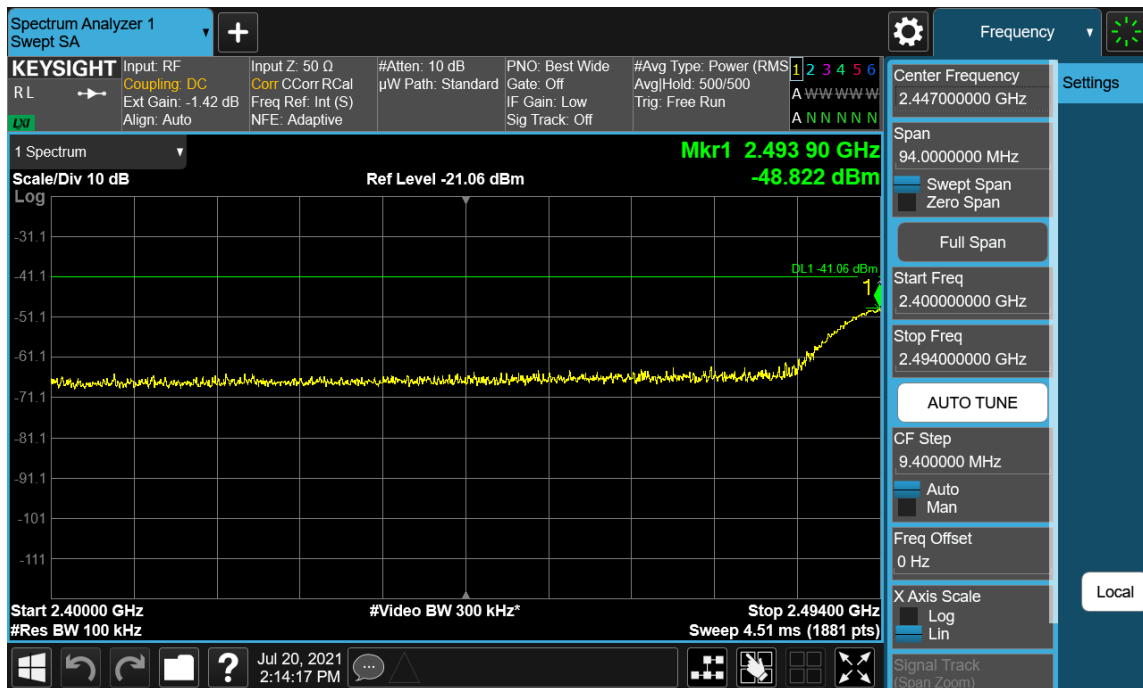
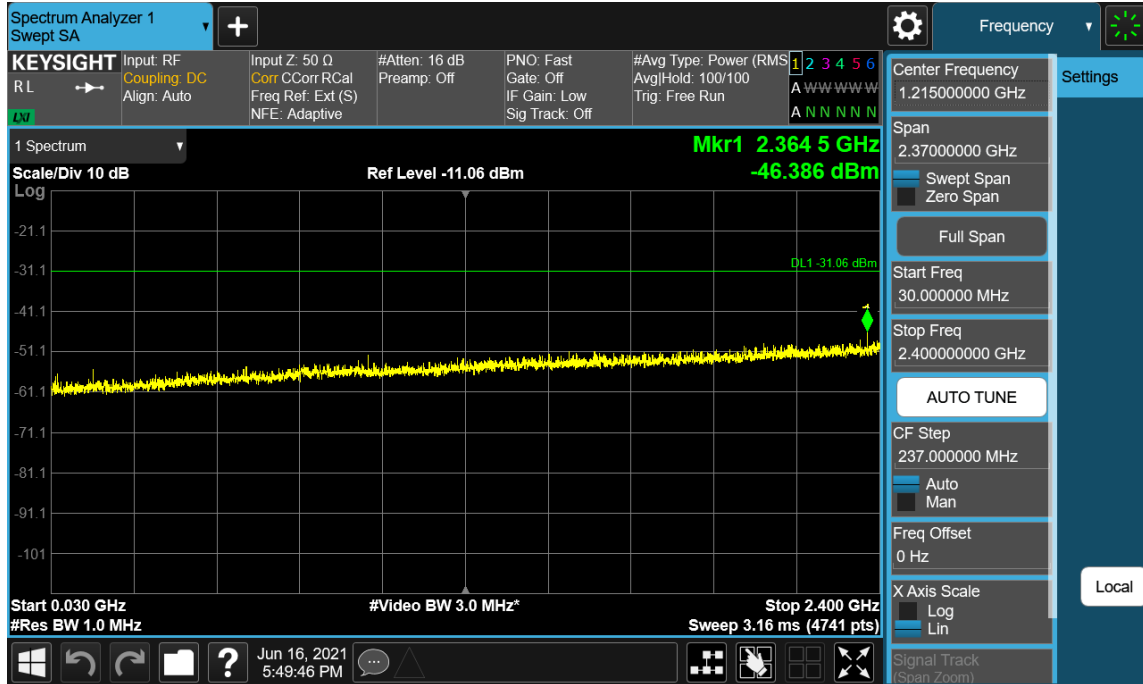


Plot 7-112. Conducted Spurious Emission Plot  
9 kHz to 150 kHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Middle Channel\_Port 27)

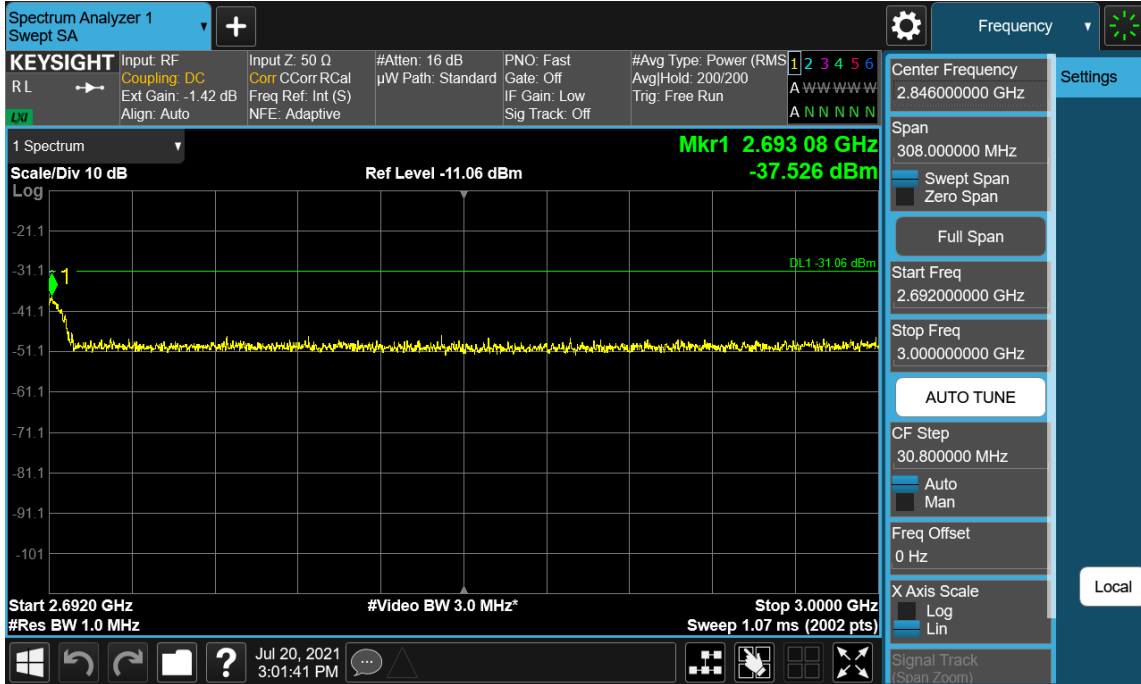


Plot 7-113. Conducted Spurious Emission Plot  
150 kHz to 30 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Middle Channel\_Port 49)

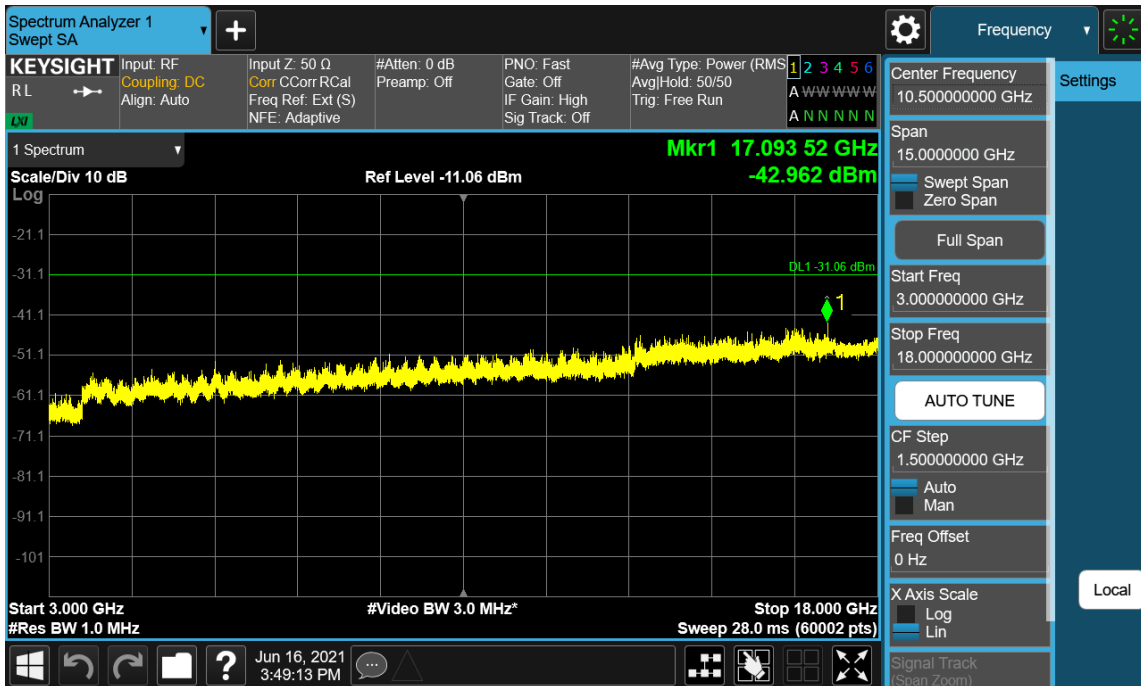
FCC ID: A3LMT6411-41A	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 133 of 201




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<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 134 of 201

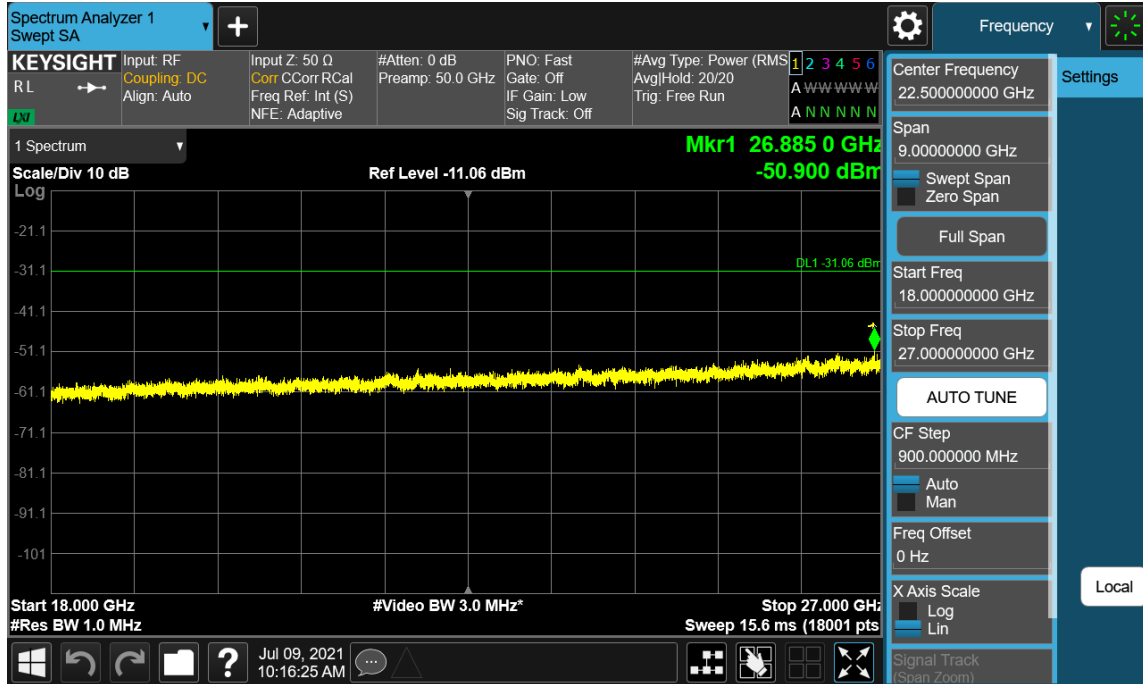


Plot 7-116. Conducted Spurious Emission Plot  
2692 MHz to 3 GHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Middle Channel\_Port 57)



Plot 7-117. Conducted Spurious Emission Plot  
3 GHz to 18 GHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Middle Channel\_Port 14)

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Plot 7-118. Conducted Spurious Emission Plot  
18 GHz to 27 GHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - Middle Channel\_Port 3)

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<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 136 of 201



Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
High	9 kHz to 150 kHz	0	-72.87	7	-72.80	14	-72.51	21	-72.56	-61.06
	150 kHz to 30 MHz		-56.55		-56.66		-58.95		-57.17	-51.06
	30 MHz to 2400 MHz		-47.89		-48.02		-48.51		-47.90	-31.06
	2400 MHz to 2494 GHz		-50.60		-50.74		-50.94		-50.83	-41.06
	2692 MHz to 3 GHz		-35.71		-36.29		-35.12		-36.48	-31.06
	3 GHz to 18 GHz		-43.17		-43.53		-42.77		-43.91	-31.06
	18 GHz to 27 GHz		-51.76		-51.71		-51.36		-51.74	-31.06
	9 kHz to 150 kHz	1	-72.80	8	-72.66	15	-72.42	22	-72.57	-61.06
	150 kHz to 30 MHz		-58.72		-58.17		-58.49		-58.04	-51.06
	30 MHz to 2400 MHz		-48.71		-47.79		-47.50		-47.61	-31.06
	2400 MHz to 2494 GHz		-51.04		-50.91		-51.04		-50.63	-41.06
	2692 MHz to 3 GHz		-36.90		-36.09		-36.93		-36.07	-31.06
	3 GHz to 18 GHz		-43.51		-43.91		-43.11		-47.43	-31.06
	18 GHz to 27 GHz		-52.13		-50.91		-52.16		-51.94	-31.06
	9 kHz to 150 kHz	2	-72.48	9	-72.21	16	-71.92	23	-72.71	-61.06
	150 kHz to 30 MHz		-59.05		-56.00		-57.32		-58.31	-51.06
	30 MHz to 2400 MHz		-48.47		-48.21		-47.72		-48.12	-31.06
	2400 MHz to 2494 GHz		-50.92		-51.77		-50.57		-50.84	-41.06
	2692 MHz to 3 GHz		-35.99		-36.59		-34.80		-37.32	-31.06
	3 GHz to 18 GHz		-43.53		-43.59		-44.00		-44.19	-31.06
	18 GHz to 27 GHz		-51.51		-51.82		-51.64		-51.54	-31.06
	9 kHz to 150 kHz	3	-72.55	10	-72.46	17	-72.39	24	-72.48	-61.06
	150 kHz to 30 MHz		-57.27		-56.08		-57.35		-58.77	-51.06
	30 MHz to 2400 MHz		-48.19		-48.47		-47.36		-46.69	-31.06
	2400 MHz to 2494 GHz		-50.37		-51.02		-51.43		-51.56	-41.06
	2692 MHz to 3 GHz		-35.33		-36.19		-35.95		-36.08	-31.06
	3 GHz to 18 GHz		-43.23		-44.20		-44.81		-43.39	-31.06
	18 GHz to 27 GHz		-51.64		-51.92		-52.32		-51.93	-31.06
	9 kHz to 150 kHz	4	-72.60	11	-72.41	18	-72.41	25	-72.58	-61.06
	150 kHz to 30 MHz		-58.09		-58.80		-57.66		-57.26	-51.06
	30 MHz to 2400 MHz		-48.02		-48.06		-47.61		-48.74	-31.06
	2400 MHz to 2494 GHz		-50.08		-51.29		-51.05		-50.83	-41.06
	2692 MHz to 3 GHz		-34.55		-36.66		-35.84		-36.70	-31.06
	3 GHz to 18 GHz		-43.79		-42.83		-44.34		-43.73	-31.06
	18 GHz to 27 GHz		-51.46		-51.99		-51.65		-51.50	-31.06
	9 kHz to 150 kHz	5	-72.47	12	-72.58	19	-72.71	26	-72.59	-61.06
	150 kHz to 30 MHz		-58.06		-58.46		-57.72		-59.57	-51.06
	30 MHz to 2400 MHz		-48.22		-48.19		-47.64		-48.14	-31.06
	2400 MHz to 2494 GHz		-51.41		-51.17		-51.40		-51.09	-41.06
	2692 MHz to 3 GHz		-36.24		-35.60		-35.96		-35.98	-31.06
	3 GHz to 18 GHz		-43.82		-43.78		-43.70		-43.32	-31.06
	18 GHz to 27 GHz		-50.29		-51.39		-51.92		-51.66	-31.06
	9 kHz to 150 kHz	6	-72.55	13	-72.63	20	-72.40	27	-72.27	-61.06
	150 kHz to 30 MHz		-56.99		-56.85		-58.06		-57.98	-51.06
	30 MHz to 2400 MHz		-47.14		-47.78		-48.11		-48.21	-31.06
	2400 MHz to 2494 GHz		-51.87		-50.62		-50.63		-51.16	-41.06
	2692 MHz to 3 GHz		-35.50		-36.07		-35.86		-37.72	-31.06
	3 GHz to 18 GHz		-43.97		-44.03		-44.67		-43.44	-31.06
18 GHz to 27 GHz	-50.54		-51.89		-51.84		-51.43		-31.06	

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Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
High	9 kHz to 150 kHz	28	-72.58	35	-72.19	42	-72.56	49	-72.74	-61.06
	150 kHz to 30 MHz		-58.81		-58.25		-57.32		-59.07	-51.06
	30 MHz to 2400 MHz		-48.51		-48.39		-47.56		-47.97	-31.06
	2400 MHz to 2494 GHz		-51.49		-50.65		-50.96		-50.13	-41.06
	2692 MHz to 3 GHz		-35.65		-35.87		-36.20		-35.82	-31.06
	3 GHz to 18 GHz		-43.98		-42.94		-44.11		-43.85	-31.06
	18 GHz to 27 GHz		-51.36		-52.09		-51.94		-51.66	-31.06
	9 kHz to 150 kHz	29	-72.58	36	-72.44	43	-72.82	50	-72.56	-61.06
	150 kHz to 30 MHz		-58.65		-57.36		-59.28		-58.31	-51.06
	30 MHz to 2400 MHz		-48.97		-48.13		-46.40		-47.81	-31.06
	2400 MHz to 2494 GHz		-50.02		-49.65		-51.07		-50.25	-41.06
	2692 MHz to 3 GHz		-35.73		-34.57		-35.72		-36.29	-31.06
	3 GHz to 18 GHz		-43.71		-43.11		-44.51		-43.40	-31.06
	18 GHz to 27 GHz		-50.94		-51.47		-51.87		-51.58	-31.06
	9 kHz to 150 kHz	30	-72.53	37	-72.49	44	-72.77	51	-72.61	-61.06
	150 kHz to 30 MHz		-57.56		-56.15		-58.48		-55.35	-51.06
	30 MHz to 2400 MHz		-48.66		-47.64		-48.20		-46.64	-31.06
	2400 MHz to 2494 GHz		-51.18		-50.87		-50.77		-50.48	-41.06
	2692 MHz to 3 GHz		-35.85		-35.87		-36.80		-34.95	-31.06
	3 GHz to 18 GHz		-44.51		-43.86		-43.96		-43.11	-31.06
	18 GHz to 27 GHz		-51.84		-51.78		-51.76		-51.74	-31.06
	9 kHz to 150 kHz	31	-72.70	38	-72.30	45	-72.66	52	-72.62	-61.06
	150 kHz to 30 MHz		-56.36		-56.82		-58.46		-57.37	-51.06
	30 MHz to 2400 MHz		-47.91		-48.33		-48.41		-48.05	-31.06
	2400 MHz to 2494 GHz		-50.62		-50.89		-51.51		-50.98	-41.06
	2692 MHz to 3 GHz		-34.94		-35.68		-35.75		-34.77	-31.06
	3 GHz to 18 GHz		-43.98		-41.87		-44.06		-42.93	-31.06
	18 GHz to 27 GHz		-51.85		-51.71		-51.81		-50.73	-31.06
	9 kHz to 150 kHz	32	-72.14	39	-72.48	46	-72.72	53	-72.26	-61.06
	150 kHz to 30 MHz		-58.98		-59.11		-58.75		-55.69	-51.06
	30 MHz to 2400 MHz		-47.99		-47.91		-48.13		-48.28	-31.06
	2400 MHz to 2494 GHz		-50.88		-50.32		-50.66		-51.06	-41.06
	2692 MHz to 3 GHz		-34.56		-35.31		-36.66		-35.63	-31.06
	3 GHz to 18 GHz		-43.77		-43.95		-44.16		-43.85	-31.06
	18 GHz to 27 GHz		-51.89		-50.71		-51.67		-51.64	-31.06
	9 kHz to 150 kHz	33	-72.24	40	-72.74	47	-72.89	54	-72.60	-61.06
	150 kHz to 30 MHz		-57.55		-56.96		-58.29		-58.42	-51.06
	30 MHz to 2400 MHz		-47.94		-47.17		-47.55		-47.50	-31.06
	2400 MHz to 2494 GHz		-50.27		-50.68		-49.88		-49.99	-41.06
	2692 MHz to 3 GHz		-35.41		-36.13		-35.22		-35.83	-31.06
	3 GHz to 18 GHz		-43.61		-43.97		-43.87		-42.19	-31.06
	18 GHz to 27 GHz		-51.72		-51.35		-51.44		-51.88	-31.06
	9 kHz to 150 kHz	34	-72.68	41	-72.82	48	-72.19	55	-72.91	-61.06
	150 kHz to 30 MHz		-58.61		-56.33		-59.91		-58.01	-51.06
	30 MHz to 2400 MHz		-47.00		-48.14		-48.07		-48.22	-31.06
	2400 MHz to 2494 GHz		-50.43		-50.87		-51.15		-50.07	-41.06
	2692 MHz to 3 GHz		-35.71		-35.22		-35.72		-35.26	-31.06
	3 GHz to 18 GHz		-43.58		-43.38		-44.13		-42.69	-31.06
18 GHz to 27 GHz	-51.68		-51.57		-51.22		-51.55		-31.06	

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 138 of 201	

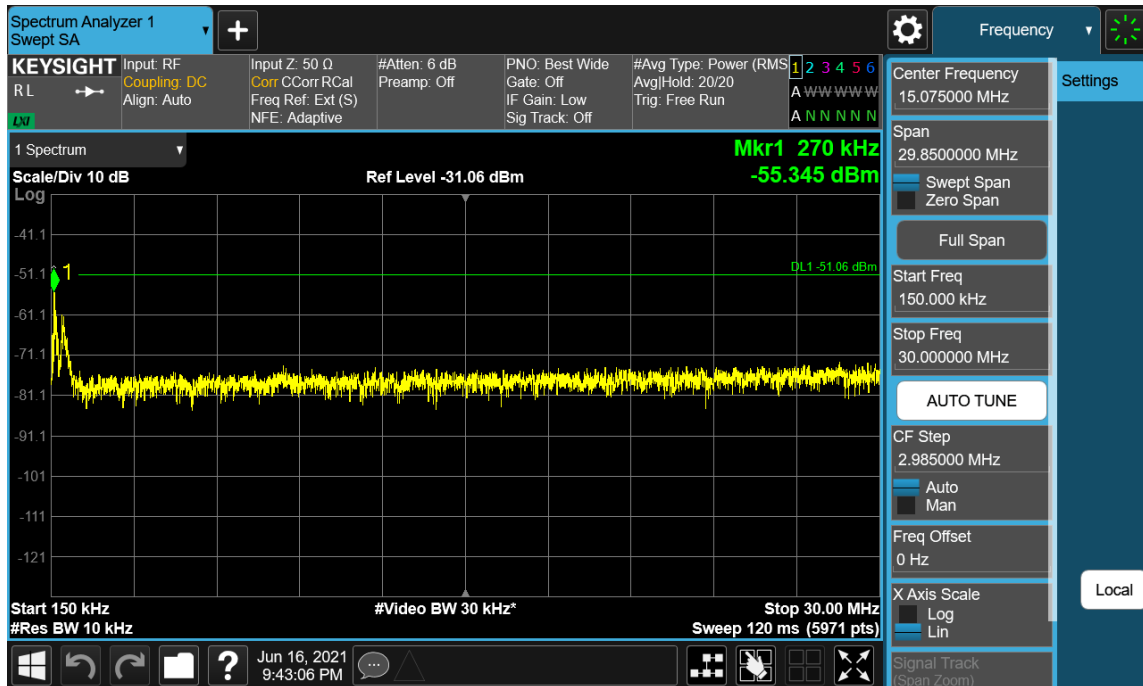
Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
High	9 kHz to 150 kHz	56	-72.11	60	-73.25	-61.06
	150 kHz to 30 MHz		-57.18		-58.17	-51.06
	30 MHz to 2400 MHz		-47.28		-47.43	-31.06
	2400 MHz to 2494 GHz		-50.17		-50.45	-41.06
	2692 MHz to 3 GHz		-36.21		-36.51	-31.06
	3 GHz to 18 GHz		-43.62		-43.93	-31.06
	18 GHz to 27 GHz		-51.80		-51.63	-31.06
	9 kHz to 150 kHz	57	-72.56	61	-72.38	-61.06
	150 kHz to 30 MHz		-59.48		-57.22	-51.06
	30 MHz to 2400 MHz		-47.66		-47.73	-31.06
	2400 MHz to 2494 GHz		-50.36		-50.29	-41.06
	2692 MHz to 3 GHz		-36.69		-36.20	-31.06
	3 GHz to 18 GHz		-44.00		-44.54	-31.06
	18 GHz to 27 GHz		-51.69		-51.01	-31.06
	9 kHz to 150 kHz	58	-72.53	62	-72.91	-61.06
	150 kHz to 30 MHz		-56.44		-59.36	-51.06
	30 MHz to 2400 MHz		-47.18		-48.36	-31.06
	2400 MHz to 2494 GHz		-50.35		-50.15	-41.06
	2692 MHz to 3 GHz		-35.93		-36.04	-31.06
	3 GHz to 18 GHz		-44.26		-44.16	-31.06
	18 GHz to 27 GHz		-51.63		-51.31	-31.06
	9 kHz to 150 kHz	59	-72.70	63	-72.45	-61.06
	150 kHz to 30 MHz		-56.16		-57.56	-51.06
	30 MHz to 2400 MHz		-47.74		-48.03	-31.06
2400 MHz to 2494 GHz	-51.00		-50.12		-41.06	
2692 MHz to 3 GHz	-35.35		-35.16		-31.06	
3 GHz to 18 GHz	-43.34		-43.92		-31.06	
18 GHz to 27 GHz	-50.96		-51.94		-31.06	

**Table 7-37. Conducted Spurious Emission Summary Data  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous\_High Channel)**

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT (Certification)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 139 of 201

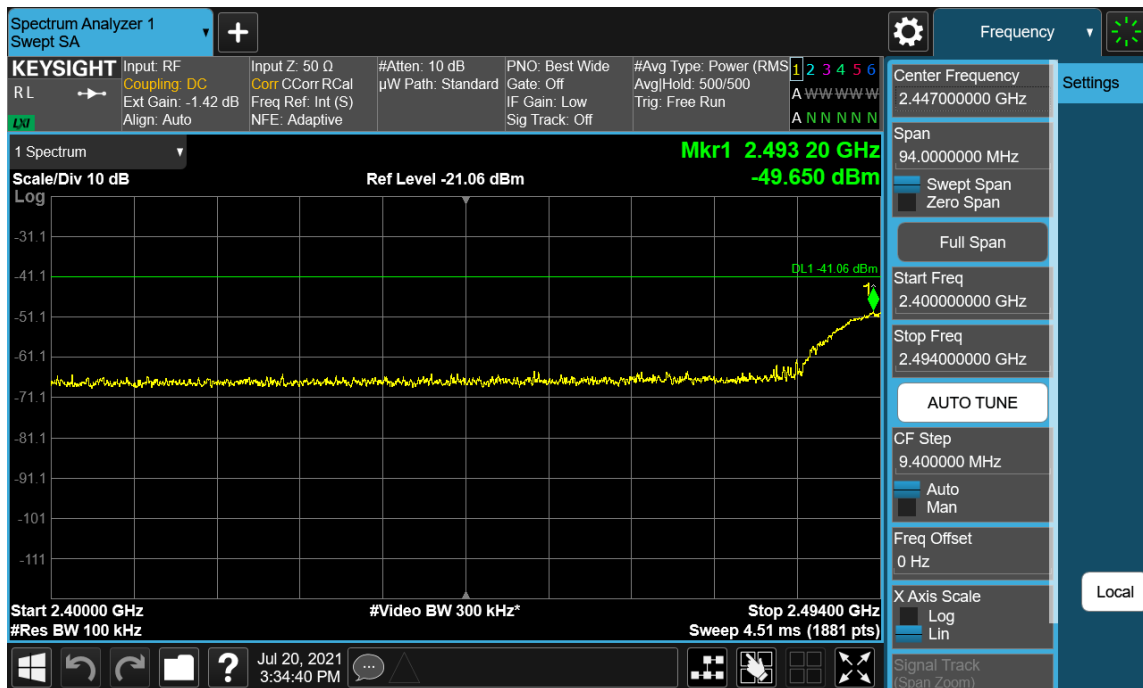
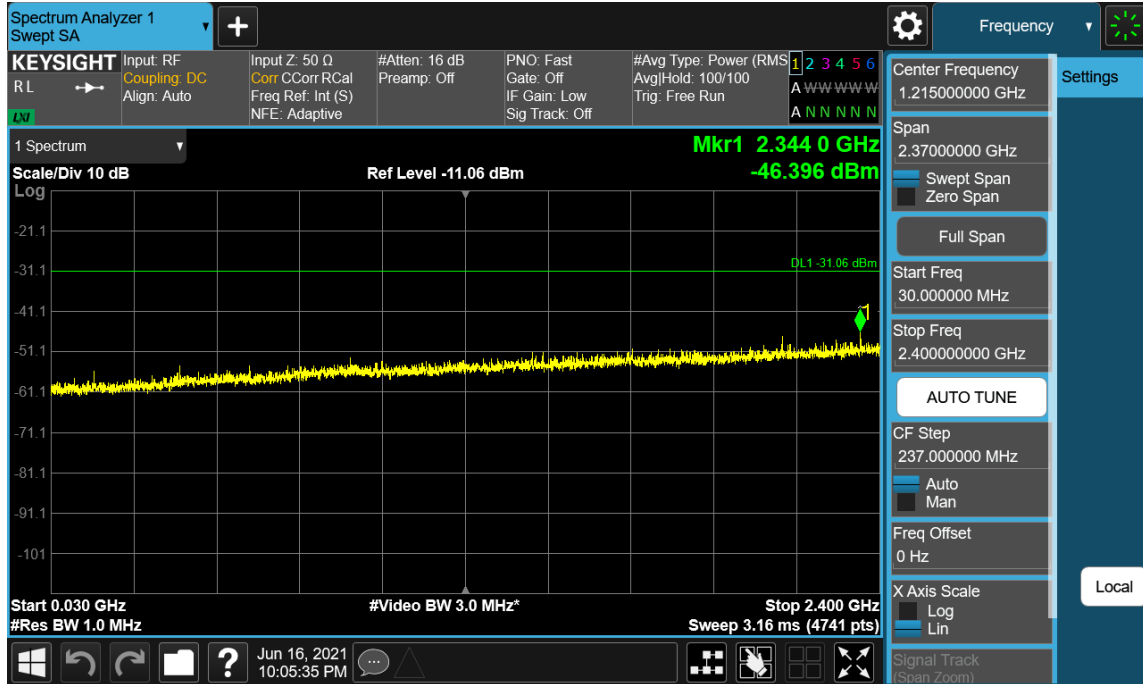


Plot 7-119. Conducted Spurious Emission Plot  
9 kHz to 150 kHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - High Channel\_Port 16)

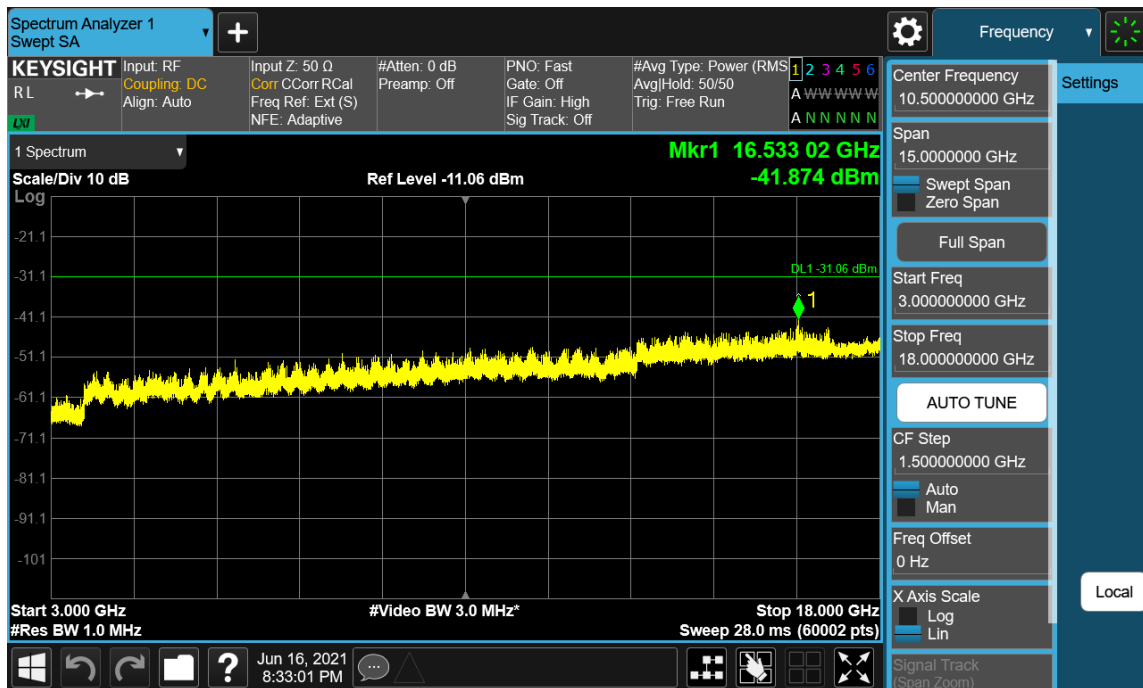
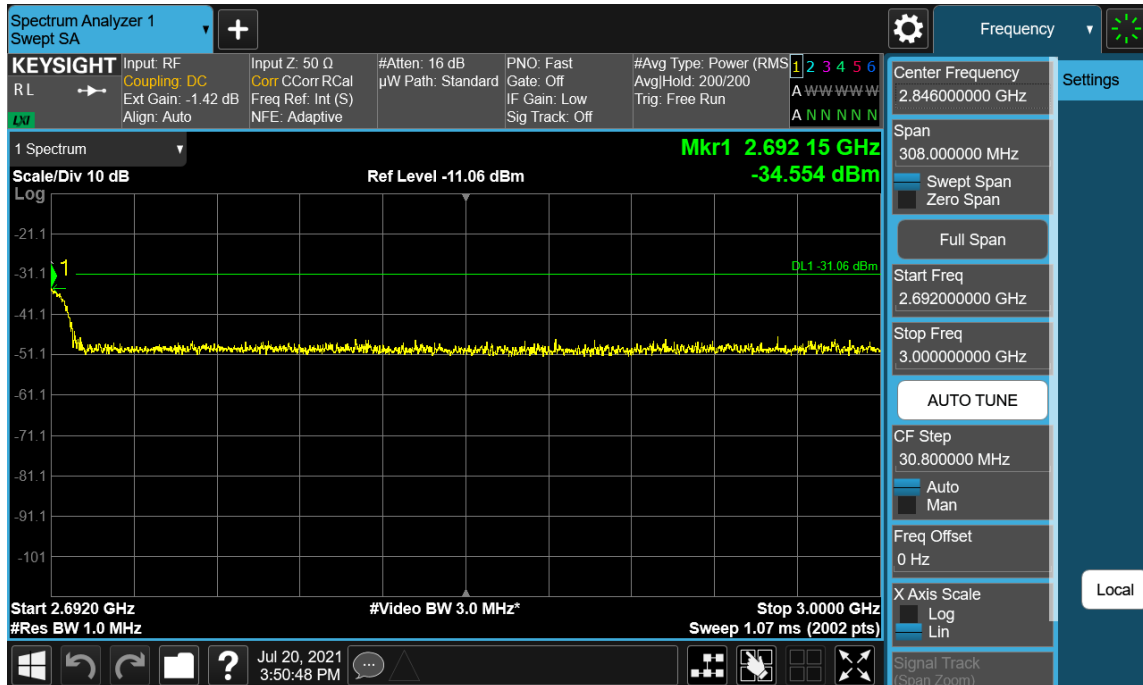


Plot 7-120. Conducted Spurious Emission Plot  
150 kHz to 30 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - High Channel\_Port 51)

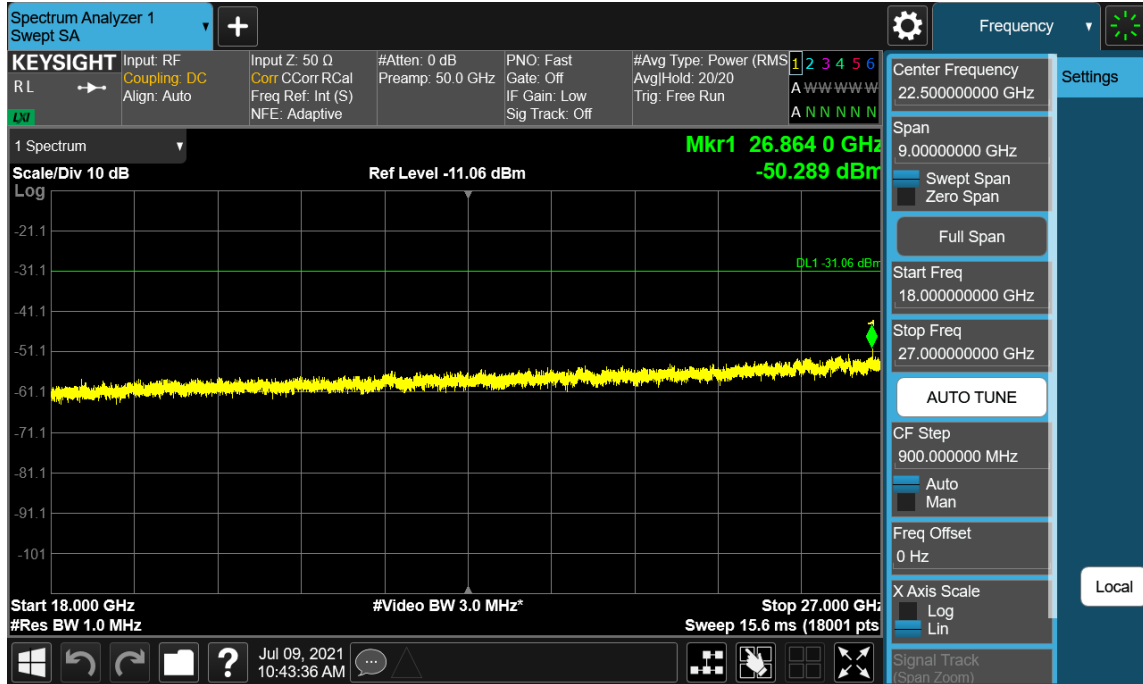
FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 140 of 201





FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 141 of 201



FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 142 of 201



Plot 7-125. Conducted Spurious Emission Plot  
18 GHz to 27 GHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Contiguous - High Channel\_Port 5)

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 143 of 201





### - Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous Configuraiton

Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
9 kHz to 150 kHz	0	-64.55	7	-65.00	14	-64.79	21	-65.02	-61.06
150 kHz to 30 MHz		-57.92		-56.74		-56.09		-58.13	-51.06
30 MHz to 2400 MHz		-48.70		-48.22		-47.82		-47.83	-31.06
2400 MHz to 2494 GHz		-47.28		-46.60		-47.09		-47.94	-41.06
2692 MHz to 3 GHz		-36.21		-36.61		-34.49		-37.08	-31.06
3 GHz to 18 GHz		-43.79		-44.40		-44.02		-43.13	-31.06
18 GHz to 27 GHz		-51.39		-51.20		-51.72		-51.74	-31.06
9 kHz to 150 kHz	1	-64.55	8	-64.93	15	-65.30	22	-65.00	-61.06
150 kHz to 30 MHz		-57.49		-57.83		-58.26		-57.10	-51.06
30 MHz to 2400 MHz		-47.62		-48.34		-48.60		-49.36	-31.06
2400 MHz to 2494 GHz		-47.22		-47.10		-47.59		-46.68	-41.06
2692 MHz to 3 GHz		-36.10		-35.56		-35.90		-36.46	-31.06
3 GHz to 18 GHz		-43.99		-43.34		-43.36		-44.87	-31.06
18 GHz to 27 GHz		-51.38		-51.70		-51.34		-51.88	-31.06
9 kHz to 150 kHz	2	-64.93	9	-64.70	16	-64.48	23	-64.93	-61.06
150 kHz to 30 MHz		-56.73		-57.26		-56.84		-58.34	-51.06
30 MHz to 2400 MHz		-48.32		-48.18		-48.05		-48.72	-31.06
2400 MHz to 2494 GHz		-46.53		-48.24		-46.72		-47.03	-41.06
2692 MHz to 3 GHz		-35.93		-36.20		-35.60		-37.06	-31.06
3 GHz to 18 GHz		-44.47		-44.57		-44.26		-45.07	-31.06
18 GHz to 27 GHz		-51.79		-51.75		-51.66		-51.54	-31.06
9 kHz to 150 kHz	3	-64.69	10	-64.93	17	-65.14	24	-65.06	-61.06
150 kHz to 30 MHz		-57.44		-59.17		-58.57		-55.80	-51.06
30 MHz to 2400 MHz		-48.24		-47.97		-48.43		-48.82	-31.06
2400 MHz to 2494 GHz		-46.47		-46.37		-46.85		-47.04	-41.06
2692 MHz to 3 GHz		-35.58		-36.50		-35.86		-36.10	-31.06
3 GHz to 18 GHz		-43.55		-44.52		-44.50		-43.94	-31.06
18 GHz to 27 GHz		-51.49		-51.16		-51.35		-51.47	-31.06
9 kHz to 150 kHz	4	-65.10	11	-64.76	18	-64.71	25	-64.88	-61.06
150 kHz to 30 MHz		-57.67		-57.95		-56.57		-58.42	-51.06
30 MHz to 2400 MHz		-47.48		-48.25		-48.04		-47.53	-31.06
2400 MHz to 2494 GHz		-45.70		-47.65		-46.61		-46.13	-41.06
2692 MHz to 3 GHz		-35.37		-36.46		-35.37		-36.57	-31.06
3 GHz to 18 GHz		-43.82		-43.48		-44.57		-43.84	-31.06
18 GHz to 27 GHz		-51.82		-52.02		-51.63		-51.56	-31.06
9 kHz to 150 kHz	5	-64.57	12	-64.89	19	-64.90	26	-65.01	-61.06
150 kHz to 30 MHz		-57.16		-56.84		-57.89		-58.86	-51.06
30 MHz to 2400 MHz		-47.65		-47.74		-48.49		-48.45	-31.06
2400 MHz to 2494 GHz		-47.44		-46.58		-47.72		-46.99	-41.06
2692 MHz to 3 GHz		-36.37		-36.11		-35.90		-36.00	-31.06
3 GHz to 18 GHz		-43.84		-43.36		-44.89		-44.67	-31.06
18 GHz to 27 GHz		-51.47		-51.23		-51.12		-51.87	-31.06
9 kHz to 150 kHz	6	-64.87	13	-65.22	20	-64.91	27	-64.84	-61.06
150 kHz to 30 MHz		-58.49		-57.27		-57.19		-56.66	-51.06
30 MHz to 2400 MHz		-48.27		-48.11		-48.38		-49.05	-31.06
2400 MHz to 2494 GHz		-47.29		-46.47		-47.11		-47.39	-41.06
2692 MHz to 3 GHz		-36.46		-36.51		-35.72		-35.55	-31.06
3 GHz to 18 GHz		-44.02		-43.46		-45.47		-44.54	-31.06
18 GHz to 27 GHz		-51.33		-51.58		-51.30		-51.49	-31.06

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 144 of 201	

Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
9 kHz to 150 kHz	28	-65.18	35	-64.73	42	-65.35	49	-64.93	-61.06
150 kHz to 30 MHz		-58.71		-58.13		-58.57		-57.70	-51.06
30 MHz to 2400 MHz		-47.61		-47.39		-47.32		-47.72	-31.06
2400 MHz to 2494 GHz		-47.06		-47.14		-47.61		-46.83	-41.06
2692 MHz to 3 GHz		-35.56		-36.27		-37.12		-35.03	-31.06
3 GHz to 18 GHz		-45.02		-43.84		-44.40		-44.14	-31.06
18 GHz to 27 GHz		-51.62		-51.67		-51.64		-51.77	-31.06
9 kHz to 150 kHz	29	-64.95	36	-64.49	43	-65.14	50	-64.72	-61.06
150 kHz to 30 MHz		-58.60		-58.14		-57.43		-57.25	-51.06
30 MHz to 2400 MHz		-48.23		-47.90		-48.71		-46.73	-31.06
2400 MHz to 2494 GHz		-45.65		-46.25		-46.91		-46.61	-41.06
2692 MHz to 3 GHz		-34.94		-35.23		-35.87		-36.21	-31.06
3 GHz to 18 GHz		-44.35		-44.27		-44.68		-43.23	-31.06
18 GHz to 27 GHz		-51.41		-51.74		-51.89		-51.61	-31.06
9 kHz to 150 kHz	30	-65.06	37	-64.60	44	-65.06	51	-65.45	-61.06
150 kHz to 30 MHz		-58.79		-57.35		-59.22		-58.93	-51.06
30 MHz to 2400 MHz		-48.45		-48.69		-48.53		-47.53	-31.06
2400 MHz to 2494 GHz		-47.45		-46.95		-47.27		-46.31	-41.06
2692 MHz to 3 GHz		-35.75		-36.73		-35.47		-35.81	-31.06
3 GHz to 18 GHz		-45.13		-43.39		-44.33		-43.39	-31.06
18 GHz to 27 GHz		-51.86		-51.36		-51.36		-51.35	-31.06
9 kHz to 150 kHz	31	-65.00	38	-64.85	45	-65.10	52	-64.89	-61.06
150 kHz to 30 MHz		-59.11		-58.79		-59.22		-57.39	-51.06
30 MHz to 2400 MHz		-47.88		-48.22		-47.30		-48.36	-31.06
2400 MHz to 2494 GHz		-46.55		-47.39		-47.26		-46.50	-41.06
2692 MHz to 3 GHz		-35.68		-35.94		-35.66		-35.67	-31.06
3 GHz to 18 GHz		-43.37		-43.44		-44.17		-44.06	-31.06
18 GHz to 27 GHz		-51.74		-51.29		-51.90		-51.47	-31.06
9 kHz to 150 kHz	32	-64.31	39	-64.60	46	-65.24	53	-64.84	-61.06
150 kHz to 30 MHz		-58.56		-59.50		-59.18		-58.29	-51.06
30 MHz to 2400 MHz		-48.36		-47.82		-48.48		-47.77	-31.06
2400 MHz to 2494 GHz		-46.67		-47.36		-47.14		-47.75	-41.06
2692 MHz to 3 GHz		-35.90		-35.43		-36.38		-35.25	-31.06
3 GHz to 18 GHz		-44.28		-43.45		-44.64		-44.13	-31.06
18 GHz to 27 GHz		-51.91		-51.55		-51.42		-51.70	-31.06
9 kHz to 150 kHz	33	-64.41	40	-64.98	47	-65.21	54	-64.89	-61.06
150 kHz to 30 MHz		-57.13		-58.58		-57.28		-56.91	-51.06
30 MHz to 2400 MHz		-48.81		-48.27		-48.34		-48.13	-31.06
2400 MHz to 2494 GHz		-46.01		-47.04		-45.63		-46.31	-41.06
2692 MHz to 3 GHz		-35.63		-35.48		-35.90		-35.71	-31.06
3 GHz to 18 GHz		-44.13		-44.83		-44.19		-43.39	-31.06
18 GHz to 27 GHz		-51.13		-50.95		-51.73		-51.18	-31.06
9 kHz to 150 kHz	34	-64.46	41	-64.97	48	-63.56	55	-65.49	-61.06
150 kHz to 30 MHz		-57.26		-57.67		-56.37		-57.79	-51.06
30 MHz to 2400 MHz		-47.82		-46.90		-47.84		-47.94	-31.06
2400 MHz to 2494 GHz		-47.49		-46.44		-47.06		-46.45	-41.06
2692 MHz to 3 GHz		-35.59		-35.89		-35.25		-35.58	-31.06
3 GHz to 18 GHz		-43.87		-44.07		-43.54		-43.75	-31.06
18 GHz to 27 GHz		-51.77		-50.56		-51.47		-50.77	-31.06

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT</b> (Certification)			Approved by: Technical Manager
Test Report S/N: BK21060701-R1.A3L	Test Dates: 06/10/2021-07/27/2021	EUT Type: MMU(MT6411)			Page 145 of 201

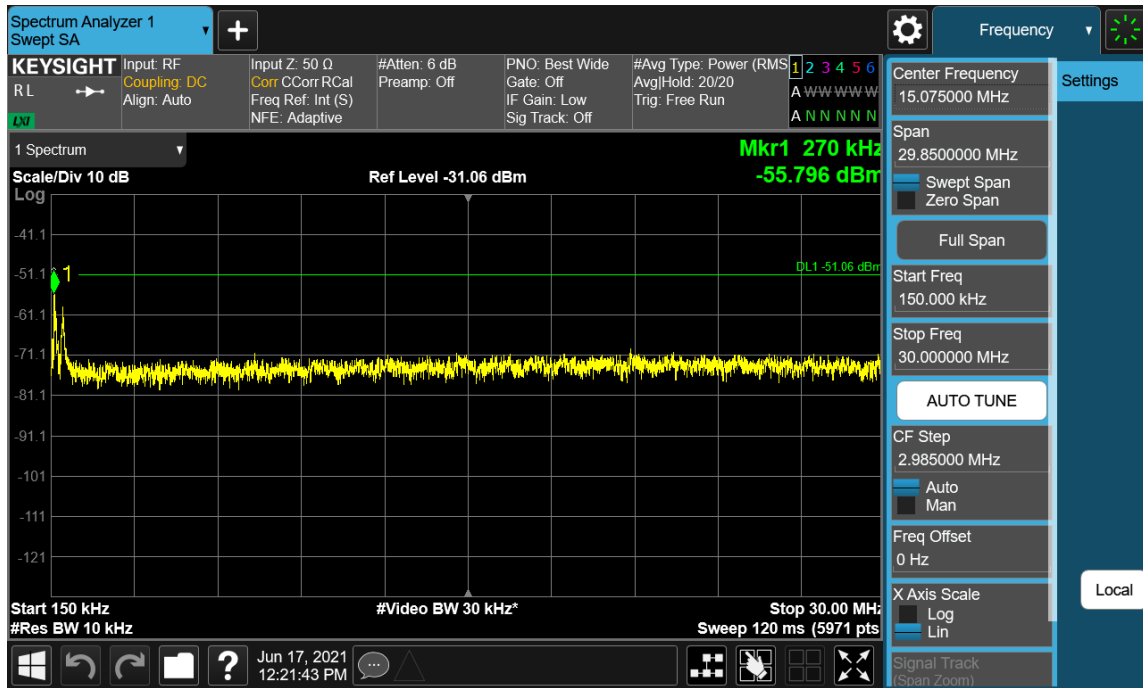
Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
9 kHz to 150 kHz	56	-63.83	60	-67.15	-61.06
150 kHz to 30 MHz		-59.53		-60.62	-51.06
30 MHz to 2400 MHz		-47.40		-47.13	-31.06
2400 MHz to 2494 GHz		-46.40		-45.18	-41.06
2692 MHz to 3 GHz		-36.68		-34.33	-31.06
3 GHz to 18 GHz		-44.82		-44.07	-31.06
18 GHz to 27 GHz		-51.84		-51.88	-31.06
9 kHz to 150 kHz	57	-64.97	61	-64.58	-61.06
150 kHz to 30 MHz		-57.96		-60.44	-51.06
30 MHz to 2400 MHz		-48.27		-47.75	-31.06
2400 MHz to 2494 GHz		-46.20		-46.61	-41.06
2692 MHz to 3 GHz		-35.67		-36.63	-31.06
3 GHz to 18 GHz		-43.71		-44.30	-31.06
18 GHz to 27 GHz		-51.16		-51.33	-31.06
9 kHz to 150 kHz	58	-65.36	62	-65.00	-61.06
150 kHz to 30 MHz		-58.68		-57.96	-51.06
30 MHz to 2400 MHz		-48.24		-48.36	-31.06
2400 MHz to 2494 GHz		-46.10		-47.08	-41.06
2692 MHz to 3 GHz		-35.93		-36.42	-31.06
3 GHz to 18 GHz		-43.88		-44.12	-31.06
18 GHz to 27 GHz		-51.69		-51.74	-31.06
9 kHz to 150 kHz	59	-65.50	63	-65.13	-61.06
150 kHz to 30 MHz		-58.54		-57.07	-51.06
30 MHz to 2400 MHz		-48.39		-48.56	-31.06
2400 MHz to 2494 GHz		-46.57		-46.17	-41.06
2692 MHz to 3 GHz		-35.32		-35.27	-31.06
3 GHz to 18 GHz		-44.82		-44.32	-31.06
18 GHz to 27 GHz		-51.65		-51.38	-31.06

**Table 7-38. Conducted Spurious Emission Summary Data  
(Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous)**

FCC ID: A3LMT6411-41A		<b>MEASUREMENT REPORT (Certification)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)	Page 146 of 201	

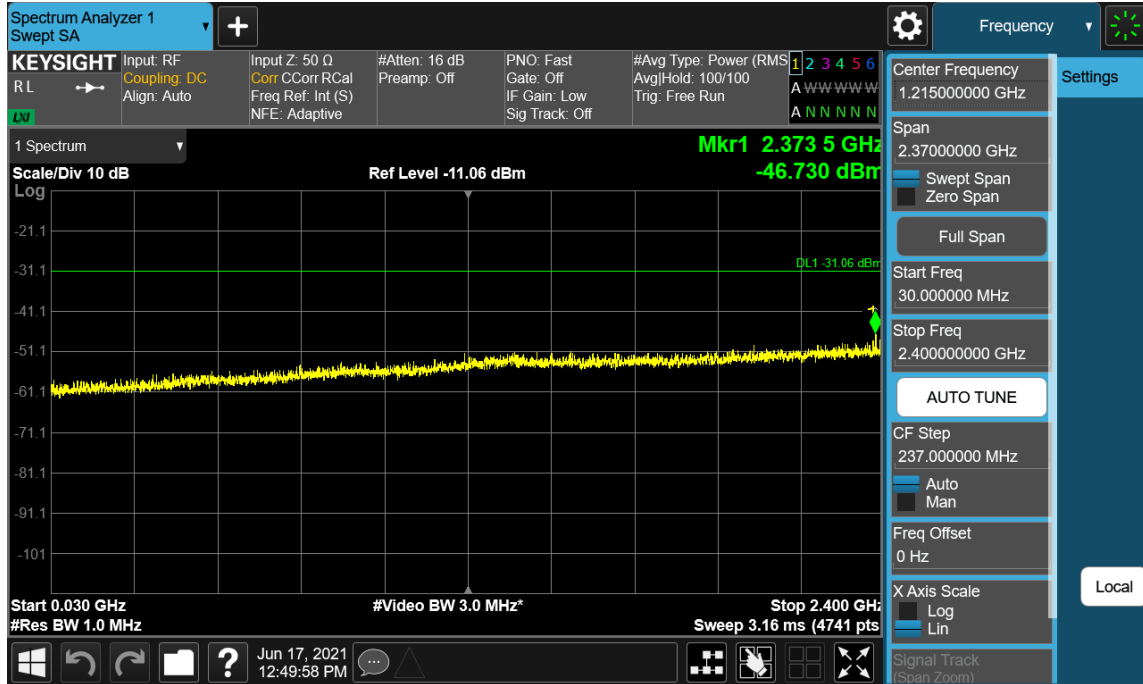


Plot 7-126. Conducted Spurious Emission Plot  
9 kHz to 150 kHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous - Port 48)

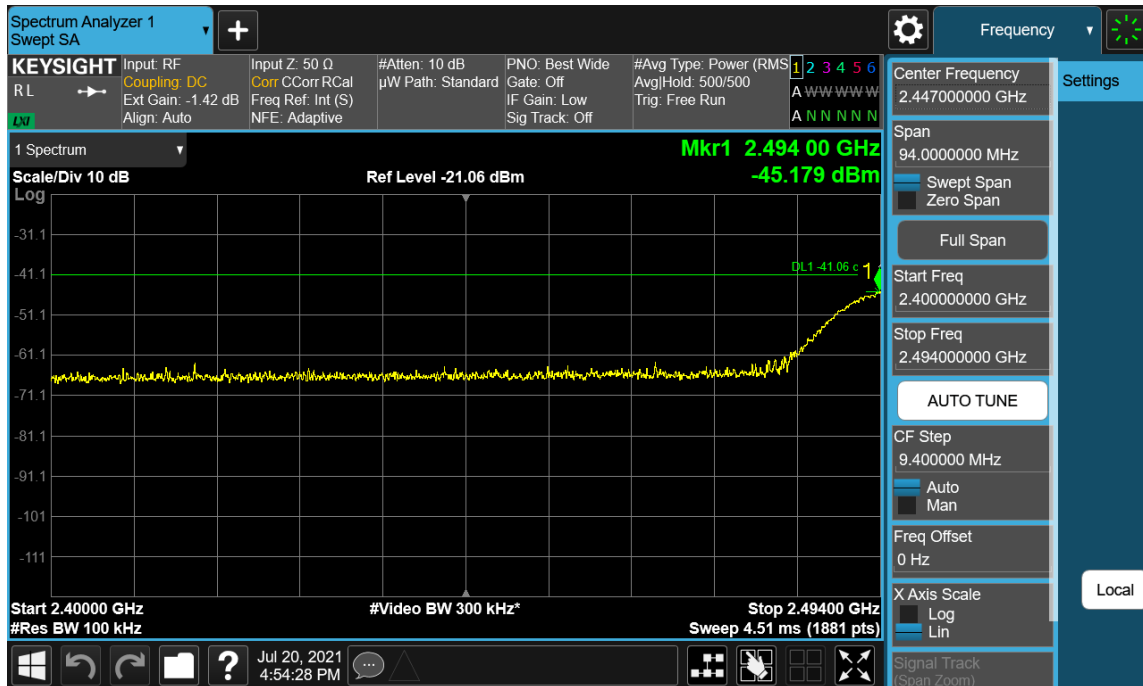


Plot 7-127. Conducted Spurious Emission Plot  
150 kHz to 30 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous - Port 24)

FCC ID: A3LMT6411-41A	PCTEST ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b> (Certification)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 147 of 201

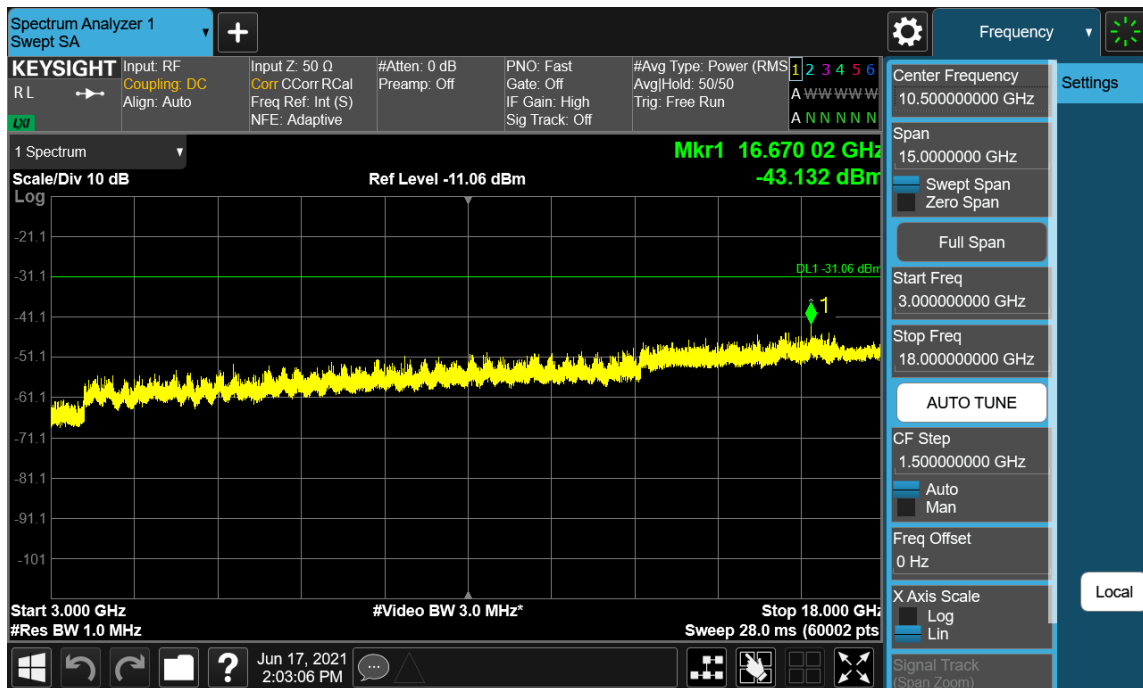
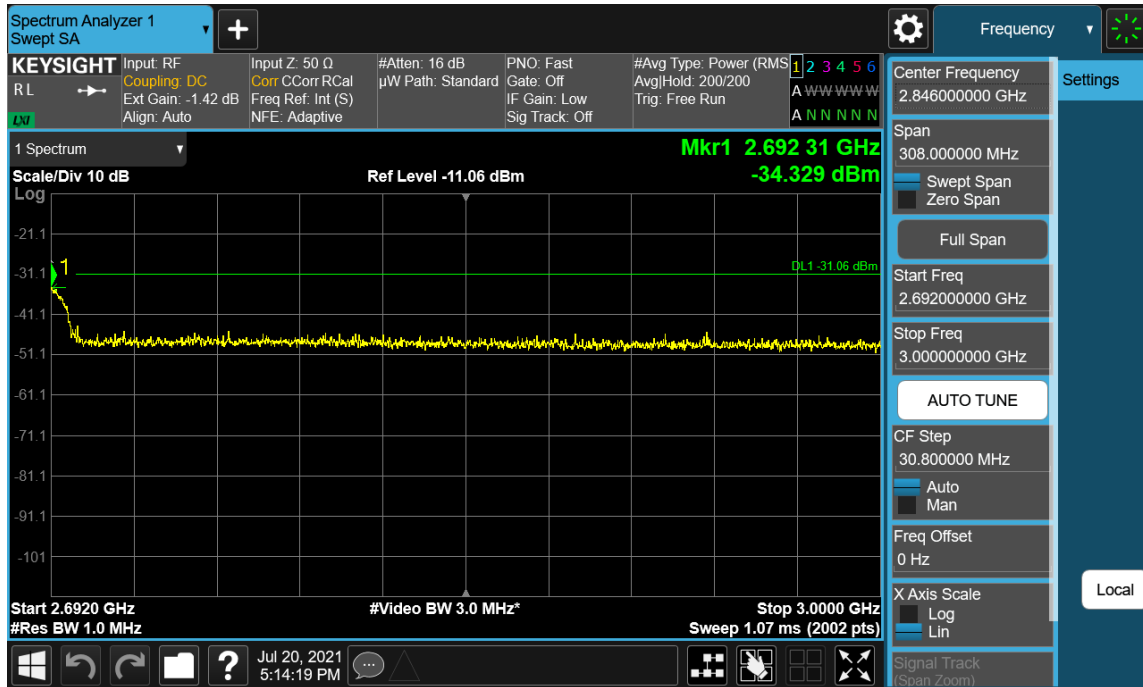


Plot 7-128. Conducted Spurious Emission Plot  
30 MHz to 2400 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous - Port 50)



Plot 7-129. Conducted Spurious Emission Plot  
2400 MHz to 2494 MHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous - Port 60)

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Plot 7-132. Conducted Spurious Emission Plot  
18 GHz to 27 GHz (Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_80M\_Non-contiguous - Port 41)

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<b>Test Report S/N:</b> 8K21060701-R1.A3L	<b>Test Dates:</b> 06/10/2021-07/27/2021	<b>EUT Type:</b> MMU(MT6411)		Page 150 of 201



### - Multi-RAT LTE 3C\_20M+20M+20M & NR 1C\_100M\_Contiguous Configuraiton

Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Low	9 kHz to 150 kHz	0	-64.95	7	-64.79	14	-64.54	21	-65.08	-61.06
	150 kHz to 30 MHz		-58.55		-60.34		-59.89		-60.85	-51.06
	30 MHz to 2400 MHz		-48.32		-48.64		-48.31		-49.14	-31.06
	2400 MHz to 2494 GHz		-47.76		-48.58		-47.88		-65.84	-41.06
	2692 MHz to 3 GHz		-39.57		-39.45		-39.05		-40.08	-31.06
	3 GHz to 18 GHz		-43.09		-42.91		-41.85		-44.14	-31.06
	18 GHz to 27 GHz		-51.35		-51.60		-51.35		-50.80	-31.06
	9 kHz to 150 kHz	1	-65.14	8	-64.86	15	-64.90	22	-65.01	-61.06
	150 kHz to 30 MHz		-58.91		-59.62		-57.38		-59.60	-51.06
	30 MHz to 2400 MHz		-47.82		-47.90		-47.56		-48.08	-31.06
	2400 MHz to 2494 GHz		-48.40		-48.32		-48.46		-64.56	-41.06
	2692 MHz to 3 GHz		-39.26		-39.84		-39.85		-38.36	-31.06
	3 GHz to 18 GHz		-44.71		-43.42		-43.77		-44.08	-31.06
	18 GHz to 27 GHz		-51.77		-51.39		-51.85		-51.29	-31.06
	9 kHz to 150 kHz	2	-65.34	9	-64.65	16	-64.63	23	-65.21	-61.06
	150 kHz to 30 MHz		-60.02		-59.50		-60.29		-58.36	-51.06
	30 MHz to 2400 MHz		-48.11		-48.54		-47.07		-48.52	-31.06
	2400 MHz to 2494 GHz		-48.20		-47.41		-65.51		-65.35	-41.06
	2692 MHz to 3 GHz		-39.92		-39.20		-39.64		-39.77	-31.06
	3 GHz to 18 GHz		-43.99		-43.19		-44.39		-43.63	-31.06
	18 GHz to 27 GHz		-51.64		-51.48		-51.65		-51.19	-31.06
	9 kHz to 150 kHz	3	-64.98	10	-64.96	17	-65.03	24	-64.78	-61.06
	150 kHz to 30 MHz		-59.72		-59.95		-60.45		-59.22	-51.06
	30 MHz to 2400 MHz		-48.32		-48.35		-47.32		-48.11	-31.06
	2400 MHz to 2494 GHz		-47.23		-47.49		-64.81		-47.39	-41.06
	2692 MHz to 3 GHz		-39.10		-39.48		-39.15		-40.11	-31.06
	3 GHz to 18 GHz		-43.29		-44.69		-44.52		-43.82	-31.06
	18 GHz to 27 GHz		-51.44		-51.75		-51.71		-51.57	-31.06
	9 kHz to 150 kHz	4	-64.88	11	-65.15	18	-64.78	25	-64.98	-61.06
	150 kHz to 30 MHz		-59.06		-58.11		-59.79		-58.82	-51.06
	30 MHz to 2400 MHz		-47.68		-47.32		-48.56		-47.64	-31.06
	2400 MHz to 2494 GHz		-46.71		-48.37		-65.19		-47.93	-41.06
	2692 MHz to 3 GHz		-38.71		-39.41		-38.70		-40.68	-31.06
	3 GHz to 18 GHz		-43.86		-43.03		-44.02		-43.74	-31.06
	18 GHz to 27 GHz		-51.47		-50.86		-51.70		-51.20	-31.06
	9 kHz to 150 kHz	5	-64.95	12	-64.88	19	-64.87	26	-64.81	-61.06
	150 kHz to 30 MHz		-59.53		-58.41		-58.78		-58.98	-51.06
	30 MHz to 2400 MHz		-47.93		-48.13		-48.22		-47.80	-31.06
	2400 MHz to 2494 GHz		-48.52		-47.69		-65.62		-47.87	-41.06
	2692 MHz to 3 GHz		-39.69		-39.71		-39.28		-37.96	-31.06
	3 GHz to 18 GHz		-44.09		-43.67		-43.46		-44.05	-31.06
	18 GHz to 27 GHz		-51.57		-52.03		-51.30		-51.48	-31.06
	9 kHz to 150 kHz	6	-65.03	13	-65.03	20	-65.01	27	-64.85	-61.06
	150 kHz to 30 MHz		-60.90		-58.12		-57.74		-57.40	-51.06
	30 MHz to 2400 MHz		-47.90		-47.81		-47.73		-47.23	-31.06
	2400 MHz to 2494 GHz		-48.54		-47.88		-65.22		-47.86	-41.06
	2692 MHz to 3 GHz		-38.93		-40.55		-39.56		-39.24	-31.06
	3 GHz to 18 GHz		-44.19		-43.86		-44.08		-44.13	-31.06
18 GHz to 27 GHz	-50.47		-51.89		-51.56		-51.81		-31.06	

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Channel	Measurement Range	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Port #	Level (dBm)	Limit (dBm)
Low	9 kHz to 150 kHz	28	-65.23	35	-64.88	42	-65.52	49	-68.88	-61.06
	150 kHz to 30 MHz		-60.39		-58.06		-58.18		-58.69	-51.06
	30 MHz to 2400 MHz		-47.84		-47.77		-47.08		-48.52	-31.06
	2400 MHz to 2494 GHz		-48.48		-47.76		-47.99		-47.13	-41.06
	2692 MHz to 3 GHz		-39.05		-39.34		-39.79		-39.21	-31.06
	3 GHz to 18 GHz		-44.24		-43.32		-44.31		-43.42	-31.06
	18 GHz to 27 GHz		-51.21		-52.01		-51.79		-51.54	-31.06
	9 kHz to 150 kHz	29	-65.27	36	-64.31	43	-65.30	50	-64.60	-61.06
	150 kHz to 30 MHz		-60.03		-58.22		-58.55		-60.80	-51.06
	30 MHz to 2400 MHz		-47.03		-48.11		-47.99		-48.11	-31.06
2400 MHz to 2494 GHz	-47.21		-47.35		-47.62		-47.10		-41.06	
2692 MHz to 3 GHz	-39.05		-39.50		-39.54		-38.74		-31.06	
3 GHz to 18 GHz	-44.42		-44.09		-43.89		-43.74		-31.06	
18 GHz to 27 GHz	-51.02		-51.50		-51.51		-51.50		-31.06	
9 kHz to 150 kHz	30	-65.01	37	-64.30	44	-64.96	51	-69.02	-61.06	
150 kHz to 30 MHz		-58.50		-59.41		-57.50		-59.32	-51.06	
30 MHz to 2400 MHz		-48.05		-48.30		-47.76		-48.56	-31.06	
2400 MHz to 2494 GHz		-47.52		-47.92		-47.30		-46.76	-41.06	
2692 MHz to 3 GHz		-39.68		-38.56		-39.51		-39.54	-31.06	
3 GHz to 18 GHz		-44.79		-43.98		-43.63		-43.58	-31.06	
18 GHz to 27 GHz		-51.60		-52.09		-52.03		-51.83	-31.06	
9 kHz to 150 kHz	31	-65.39	38	-64.39	45	-64.85	52	-64.86	-61.06	
150 kHz to 30 MHz		-58.30		-59.51		-60.99		-58.46	-51.06	
30 MHz to 2400 MHz		-48.13		-47.93		-47.14		-48.51	-31.06	
2400 MHz to 2494 GHz		-46.82		-47.82		-48.18		-47.75	-41.06	
2692 MHz to 3 GHz		-38.88		-38.99		-39.50		-39.86	-31.06	
3 GHz to 18 GHz		-44.05		-43.37		-44.29		-42.72	-31.06	
18 GHz to 27 GHz		-51.71		-51.60		-51.61		-45.98	-31.06	
9 kHz to 150 kHz	32	-64.07	39	-64.71	46	-65.06	53	-64.78	-61.06	
150 kHz to 30 MHz		-60.42		-58.52		-59.33		-60.59	-51.06	
30 MHz to 2400 MHz		-47.71		-47.79		-47.30		-47.69	-31.06	
2400 MHz to 2494 GHz		-47.82		-47.81		-48.03		-47.11	-41.06	
2692 MHz to 3 GHz		-39.50		-40.11		-38.81		-39.01	-31.06	
3 GHz to 18 GHz		-44.12		-43.35		-43.48		-44.09	-31.06	
18 GHz to 27 GHz		-51.80		-51.47		-51.87		-51.59	-31.06	
9 kHz to 150 kHz	33	-64.59	40	-65.19	47	-65.02	54	-64.62	-61.06	
150 kHz to 30 MHz		-58.20		-59.13		-59.03		-59.48	-51.06	
30 MHz to 2400 MHz		-48.33		-48.23		-47.45		-46.77	-31.06	
2400 MHz to 2494 GHz		-47.33		-47.64		-46.92		-46.97	-41.06	
2692 MHz to 3 GHz		-39.29		-39.47		-38.62		-38.64	-31.06	
3 GHz to 18 GHz		-44.19		-44.36		-44.59		-43.04	-31.06	
18 GHz to 27 GHz		-51.96		-51.38		-51.46		-51.60	-31.06	
9 kHz to 150 kHz	34	-64.58	41	-65.06	48	-63.91	55	-65.58	-61.06	
150 kHz to 30 MHz		-58.49		-59.41		-57.33		-57.78	-51.06	
30 MHz to 2400 MHz		-47.94		-47.04		-46.82		-47.79	-31.06	
2400 MHz to 2494 GHz		-47.33		-47.10		-47.41		-47.54	-41.06	
2692 MHz to 3 GHz		-38.60		-39.10		-39.22		-39.53	-31.06	
3 GHz to 18 GHz		-43.72		-43.24		-43.84		-43.62	-31.06	
18 GHz to 27 GHz		-51.47		-51.35		-51.80		-51.45	-31.06	

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