



Plot 7-216. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 NB-IoT(SA) 2C Conti – Mid Channel)



Plot 7-218. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 NB-IoT(SA) 2C Conti - Mid Channel)

Spectrum Analy Swept SA		+		1			Frequency	· • 🛞
KEYSIGHT RL +++	Input. RF Coupling: DC Align: Auto	Input Z: 50 D Corr CCorr RCal Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off	PNO: Best Wide Cate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Avg Hold: 100/1 Trig: Free Run	AWR (RIMS 123456 00 AWW WWW ANNNNN	Center Frequency 748.050000 MHz Soan	Settings
1 Spectrum	•				Mkr1	746.228 7 MHz	3.90000000 MHz	
Scale/Div 10 d	в		Ref Level 1.00 c	IBm		-36.150 dBm	Swept Span Zero Span	
-9.00							Full Span	
-19.0						DL1 -19.09 dBm	Start Freq 746.100000 MHz	
-29.0 -39.0		1001 100 100 100 100 100 100 100 100 10	-				Stop Freq 750.000000 MHz	
-49.0				وساعوراه إوتوهر يحرره رعد	nother nothing	Rus NMMMANAMPUNIN	AUTO TUNE	
-59.0							CF Step 390.000 kHz	
-69.0							Auto Man	
-89.0							Freq Offset 0 Hz	
Start 746.100 M #Res BW 100 P			#Video BW 300	kHz"	Sweep	Stop 750.000 MH: ~6.96 ms (1001 pts	X Axis Scale Log	Local
اد 1		Aug 16, 2021 3:56:24 PM	ÐA				Signal Track (Span Zoom)	

Plot 7-220. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 NB-IoT(SA) 2C Conti - Mid Channel)

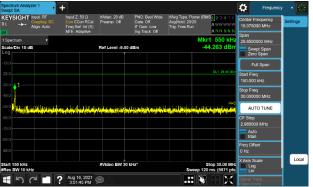


Plot 7-222. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 NB-IoT(SA) 2C Conti - Mid Channel)

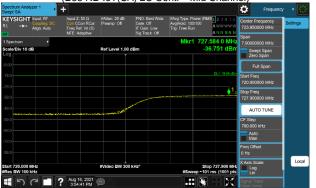
FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dega 101 of 100	
8K21061101.A3L 08/04/2021 - 08/24/2021		RRU (RF4435d)		Page 121 of 166	
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Plot 7-217. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 NB-IoT(SA) 2C Conti - Mid Channel)



Plot 7-219. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 NB-IoT(SA) 2C Conti – Mid Channel)



Plot 7-221. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 NB-IoT(SA) 2C Conti – Mid Channel)





Plot 7-223. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 NB-IoT(SA) 2C Conti – High Channel)



Plot 7-225. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 NB-IoT(SA) 2C Conti – High Channel)



Plot 7-224. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 NB-IoT(SA) 2C Conti – High Channel)



Plot 7-226. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 NB-IoT(SA) 2C Conti – High Channel)

FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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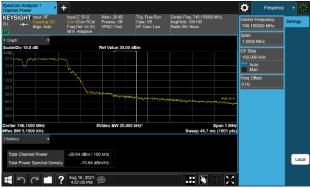


EYSIGHT Input. RF Coupling DC Align: Auto		eamp:Off Gate: IFGa	Best Wide #Avg Type. P Off Avg Hold: 100 in: Low Trig: Free Ru rack: Off	ower (RMS <mark>123456</mark>)r100 A WWWWW n A N N N N N	Center Frequency 748.050000 MHz Soan	Settings
Spectrum	Re	f Level 1.00 dBm	Mkr	746.100 0 MHz -18.035 dBm	3.90000000 MHz	
.00 1 9.0				DL1 -19.00 dBm	Full Span Start Freq	
9.0 0.0					746.100000 MHz Stop Freq 750.000000 MHz	
				FBTS	AUTO TUNE CF Step	
					390.000 kHz Auto Man	
9.0 art 746.100 MHz Res BW 100 kHz	#V	ideo BW 300 kHz*		Stop 750.000 MH: ep ~101 ms (1001 pts	Freq Offset 0 Hz X Axis Scale Log	Loca

Plot 7-227. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 NB-IoT(SA) 2C Conti – High Channel)



Plot 7-229. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 NB-IoT(SA) 2C Conti – High Channel)



Plot 7-228. Conducted Spurious Emission Plot (746.1MHz to 750MHz) Channel Power (B85 NB-IoT(SA) 2C Conti – High Channel)



Plot 7-230. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 NB-IoT(SA) 2C Conti – High Channel)

FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Port #	Maggurament Dange	Level (dBm)	Limit (dDm)	
FUIL#	Measurement Range	QPSK	Limit (dBm)	
	9 kHz to 150 kHz	-51.82	-39.0	
	150 kHz to 30 MHz	-44.54	-29.0	
	30 MHz to 720 MHz	-32.39	-19.0	
3	720 MHz to 727.9 MHz	-25.00	-19.0	
-	746.1 MHz to 750 MHz	-24.58	-19.0	
	750 MHz to 1 GHz	-47.65	-19.0	
	1 GHz to 8 GHz	-37.79	-19.0	

Table 7-50. Conducted Spurious Emission Summary Data (B85 NB-IoT(SA) 2C Non-conti)

FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
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CEYSIGHT Input RF Coupling DC Alian: Auto	+ Input Z: 50 Ω WAtten: 6 dB Corr CCorr RCal Preamp: Off Freq Ref. Int (S)	PNO. Best Close Cate: Off IF Cain: Low	#Avg Type: Power (RMS 1 2 3 4 Avg/Hold: 100'100	79.500 kHz	Settings
Spectrum + icale/Div 10 dB	NFE: Adaptive Ref Level -19.	Sig Track: Off	Mkr1 25.638 -51.816 d	Span Hz 141.000000 kHz	
39.0				Full Span	
0.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~		Stop Freq 150.000 kHz	
				CF Step 14.100 kHz Auto Man	
0 0 109 lart 9.00 kHz	#Video BW 3	0 kHz*	Stop 150.00	Freq Offset 0 Hz X Axis Scale Log	Loc

Plot 7-231. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 NB-IoT(SA) 2C Non-conti)



Plot 7-233. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 NB-IoT(SA) 2C Non-conti)

Spectrum Analyzer 1 Swept SA	+					Frequency	- *
RL + Align: Auto		#Atten: 20 dB Preamp: Off	PNO: Best Wide Cate: Off IF Gain: Low Sig Track: Off	#Avg Type. Power (RMS Avg Hold: 100/100 Trig: Free Run	123456 Awwwww ANNNNN	140.030000 militz	Settings
1 Spectrum 🔹				Mkr1 746.1	100 0 MHz	Span 3.90000000 MHz	
Scale/Div 10 dB		Ref Level 1.00 c	iBm	-24	.581 dBm		
					DL1 -19-00 dBm	Full Span	
19.0 1					0111900000	Start Freq 746.100000 MHz	
39.0			and the second			Stop Freq 750.000000 MHz	
				and an address of the second	were water	AUTO TUNE	
						CF Step 390.000 kHz	
						Auto Man	
						Freq Offset 0 Hz	
Start 746.100 MHz #Res BW 100 kHz		Video BW 300 I	kHz"	Stop #Sweep ~101	750.000 MH; ms (1001 pts	X Axis Scale Log	Local
1 50	• Aug 18, 2021	<u>۸</u>				Signal Track	

Plot 7-235. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 NB-IoT(SA) 2C Non-conti)



Plot 7-237. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 NB-IoT(SA) 2C Non-conti)

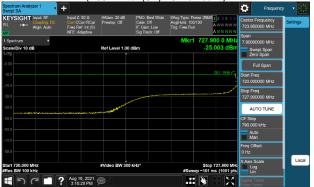
FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 105 of 100	
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Plot 7-232. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 NB-IoT(SA) 2C Non-conti)



Plot 7-234. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 NB-IoT(SA) 2C Non-conti)



Plot 7-236. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 NB-IoT(SA) 2C Non-conti)



Ch.	Port #	Maggurament Dange	Level (dBm)	Limit (dPm)	
Cn.	Port #	Measurement Range	QPSK	Limit (dBm)	
		9 kHz to 150 kHz	-47.97	-39.0	
		150 kHz to 30 MHz	-46.76	-29.0	
		30 MHz to 720 MHz	-32.28	-19.0	
Low	0	720 MHz to 727.9 MHz	-28.57	-19.0	
		746.1 MHz to 750 MHz	-34.92	-19.0	
		750 MHz to 1 GHz	-46.15	-19.0	
		1 GHz to 8 GHz	-37.61	-19.0	
	2	9 kHz to 150 kHz	-51.13	-39.0	
		150 kHz to 30 MHz	-40.79	-29.0	
		30 MHz to 720 MHz	-32.54	-19.0	
Middle		720 MHz to 727.9 MHz	-33.67	-19.0	
		746.1 MHz to 750 MHz	-34.15	-19.0	
		750 MHz to 1 GHz	-48.31	-19.0	
		1 GHz to 8 GHz	-37.95	-19.0	
		9 kHz to 150 kHz	-51.73	-39.0	
		150 kHz to 30 MHz	-42.96	-29.0	
		30 MHz to 720 MHz	-32.41	-19.0	
High	0	720 MHz to 727.9 MHz	-33.84	-19.0	
		746.1 MHz to 750 MHz	-24.11	-19.0	
		750 MHz to 1 GHz	-45.85	-19.0	
		1 GHz to 8 GHz	-37.21	-19.0	

Table 7-51. Conducted Spurious Emission Summary Data (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti)

FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Spectrum Analyz Swept SA	zer 1 💡	+					Frequency	· • *
RL +++	Input. RF Coupling: DC Align: Auto	Inpul Z. 50 Q Corr CCorr RCal Freq Ref: Int (S) NFE: Adaptive	#Atlen: 6 dB Preamp: Off	PNO: Best Close Cate: Off IF Cain: Low Sig Track: Off	#Avg Type: Power (R Avg Hold: 100/100 Trig: Free Run	MS <mark>123456</mark> Awwwww ANNNNN	Center Frequency 79.500 kHz Soan	Settings
1 Spectrum Scale/Div 10 dE	•		Ref Level -19.0	0 dBm		25.638 kHz 47.965 dBm	141.000000 kHz	
-29.0	• 4					DL1 -39.00 dDe	Full Span Start Freq	
-49.0 -59.0 A	Åm	A	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	muna			9.000 kHz Stop Freq 150.000 kHz	
							AUTO TUNE CF Step	
-89.0							14.100 kHz Auto Man	
-109							Freq Offset 0 Hz X Axis Scale	Local
Start 9.00 kHz #Res BW 1.0 kH	12 Tal - Tal	Aug 18, 2021 8-16-55 pm	#Video BW 3.0	KH2"		Stop 150.00 kHz .5 ms (1001 pts	Log Lin Signal Track	

Plot 7-238. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Low Channel)



Plot 7-240. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Low Channel)

Spectrum Analyzer Swept SA	1 • +							Ċ.	Frequency		
RL Align	pling: DC C n: Auto Fr		#Atten: 20 dB Preamp: Off	PNO. Ber Gate: Off IF Gain: I Sig Track		#Avg Type. Po Avg Hold: 100 Trig: Free Run			requency 000 MHz	Setting	,
1 Spectrum	•					Mkr1	746.103 9 MHz	3.90000	000 MHz		
Scale/Div 10 dB			Ref Level 1.00 c	dBm			-34.917 dBm		pt Span Span		
-9.00									ill Span		
-19.0							DL1-19-00 dBm	Start Fre			
-29.0 1								746.100	000 MHz		
-39.0				-				Stop Fre 750.000	9 000 MHz		
-49.0					and the second second	- manan	Y	AUT	TO TUNE		
-50.0								CF Step			
-69.0								390.000	1.0. 1.00		
-79.0								Man			
-89.0								Freq Offs 0 Hz	set		
								X Axis Se	cale	Lo	cal
Start 746.100 MHz #Res BW 100 kHz		1	Video BW 300	kHz*		#Swee	Stop 750.000 MH p ~101 ms (1001 pts	Log			
		Aug 19, 2021	b A								

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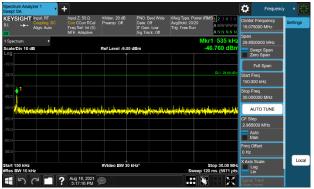


Plot 7-244. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – Low Channel)

FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-239. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Low Channel)



Plot 7-241. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Low Channel)



Plot 7-243. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Low Channel)



Spectrum Analyzer 1	+				Frequency	- * *
KEYSIGHT Input RF R L ++ Align: Auto		ten:6 dB PNO:6 emp:Off Cate:0 IFGain Sig Tra	Off AvgjHo ⊨Low Trig:Fr	ype. Power (RMS 2 3 Id: 100/100 A.W.W ee Run A.W.W A.N.N	79.500 kHz	Settings
1 Spectrum Scale/Div 10 dB Log	Ref	Level -19.00 dBm		Mkr1 25.638 -51.129	KHZ 141.000000 kHz	
-29.0					Full Span	
-49.0					9.000 kHz Stop Freq	
-59.0	Ann	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www		AUTO TUNE	
-79.0					CF Step 14.100 kHz Auto	
-109					Man Freq Offset 0 Hz	
Start 9.00 kHz #Res BW 1.0 kHz	#VI	deo BW 3.0 kHz*		Stop 150. Sweep 47.5 ms (10		Local
1501	Aug 19, 2021				Signal Track	

Plot 7-245. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Mid Channel)



Plot 7-247. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Mid Channel)

Spectrum Analyzer 1 Swept SA	• +	¢.	Frequency	- *
KEYSIGHT Input. RF R L +++ Coupling D Align: Auto	Input Z. 50 Ω #Atten: 20 Corr CCorr RCal Preamp: 0 Freq Ref: Int (S) NFE: Adaptive	AWWWWW 74	enter Frequency 48.050000 MHz ban	Settings
1 Spectrum Scale/Div 10 dB Log	Ref Level		Swept Span Zero Span	
-9.00		DL1 /19/00 eB-	Full Span	
-29.0		74	art Freq 46.100000 MHz op Freq	
-39.0		TE	50.000000 MHz AUTO TUNE	
-59.0			= Step 90.000 kHz	
-79.0			Auto Man eq Offset Hz	
Start 746.100 MHz #Res BW 100 kHz	#Video BV		nz Axis Scale Log Lin	Local
	Aug 19, 2021		Lin	

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Plot 7-251. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – Mid Channel)

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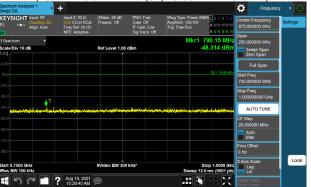
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Plot 7-246. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - Mid Channel)



Plot 7-248. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – Mid Channel)



Plot 7-250. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – Mid Channel)



pectrum Analyzer 1 vept SA	+			🛟 Amplitud	• • 🛃
EYSIGHT Input. RF Coupling DC Align: Auto	Input Z: 50 Ω #Atten: 6 c Corr CCorr RCal Preamp: C Freq Ref: Int (S) NFE: Adaptive			3 4 5 6 Ref Level -19.00 dBm	Y Scale
Spectrum v	·		Mkr1 25.63	8 kHz 10 dB	Attenuati
cale/Div 10 dB	Ref Level	19.00 dBm	-51.726	Display Scale Log Lin	Signal Pi
				19 00 den YAxis Unit dBm	
"monthing	Marin		An aran ana	Ref Level Offset 0.00 dB	
				Off Number of Divisions	
				10	
					Loca
tart 9.00 kHz Res BW 1.0 kHz	#Video B	N 3.0 kHz"	Stop 15 Sweep 47.5 ms (1		

Plot 7-252. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)



Plot 7-254. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)

Spectrum Analyzer 1 Swept SA	• +					Frequency	- * ※
R L Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NΓΕ: Adaptive	#Atten: 20 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Awg Type. Power (Avg Hold: 100/100 Trig: Free Run	RMS 1 2 3 4 5 6 A WW WW W A N N N N N	Center Frequency 748.050000 MHz Span	Settings
1 Spectrum v Scale/Div 10 dB		Ref Level 1.00	dBm		l6.100 0 MHz -24.107 dBm	3.90000000 MHz	
-9.00						Zero Span Full Span	
-19.0 1					DL1 -19:00 dBm	Start Freq 746.100000 MHz	
-39.0				and the second		Stop Freq 750.000000 MHz	
-49.0					and the second se	AUTO TUNE	
-59.0						CF Step 390.000 kHz	
-79.0						Auto Man	
-89.0						Freq Offset 0 Hz	_
Start 746.100 MHz #Res BW 100 kHz		#Video BW 300	kHz"	#Sweep~	Stop 750.000 MH; 101 ms (1001 pts	X Axis Scale Log Lin	Local
	Aug 19, 2021	$ \rightarrow $				Oliveral Terrals	

ー つ C I ? Aug 19, 2021 Plot 7-256. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - High Channel)

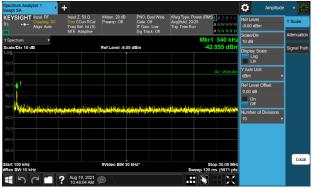


Plot 7-258. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti - High Channel)

FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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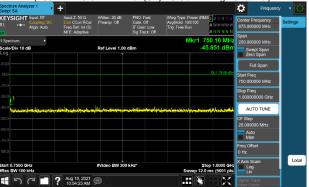
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Plot 7-253. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)



Plot 7-255. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)



Plot 7-257. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)



Port #	Magguramont Banga	Level (dBm)	Limit (dBm)	
FUIL#	Measurement Range	QPSK		
	9 kHz to 150 kHz	-51.42	-39.0	
	150 kHz to 30 MHz	-42.53	-29.0	
	30 MHz to 720 MHz	-32.07	-19.0	
3	720 MHz to 727.9 MHz	-25.81	-19.0	
	746.1 MHz to 750 MHz	-24.44	-19.0	
	750 MHz to 1 GHz	-47.85	-19.0	
	1 GHz to 8 GHz	-37.57	-19.0	

Table 7-52. Conducted Spurious Emission Summary Data (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti)

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Plot 7-259. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Plot 7-261. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti)

KEYSIGHT Input. RF RL Auto Align: Auto	Input Z: 50 0 #Atten: 20 d Corr CCorr RCal Freq Ref. Int (S) NFE: Adaptive	B PNO. Best Wide #Awg Typ Cate: Off Avg)Hold IF Cain: Low Trig: Free Sig Track: Off		748.050000 MHz	Settings
1 Spectrum • Scale/Div 10 dB Log	Ref Level 1		kr1 746.100 0 MHz -24.437 dBm	Span 3.90000000 MHz Swept Span Zero Span	
9.00 19.0 <mark>- 1</mark>			DL1 /19:00 dBe	Full Span Start Freq	
39.0				746.100000 MHz Stop Freq 750.000000 MHz	
				AUTO TUNE GF Step 390.000 kHz	
				Auto Man	
89.0 Itart 746.100 MHz Res BW 100 kHz	#Video BW		Stop 750.000 MH; Sweep ~101 ms (1001 pts	0 Hz X Axis Scale Log	Los

Plot 7-263. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Plot 7-265. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti – Low Channel)

FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	M S U N G	Approved by: Technical Manager
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Plot 7-260. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Plot 7-262. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti)

	(DOO LIE	10.0101	1 10 10			u)	
pectrum Analyzer 1 wept SA	• +				Ö	Frequency	- • E
EYSIGHT Input. RF Coupling: D Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off	PNO. Fast Gate: Off IF Gain: Low Sig Track: Off		001	ter Frequency .000000 MHz	Settings
Spectrum v sale/Div 10 dB		Ref Level 1.00	iBm	Mkr1 870.2 -47.85		.000000 MHz Swept Span Zero Span	
					19.00 cBer	Full Span	
.0					750	t Freq .000000 MHz	
		≬1			1.0	Freq 00000000 GHz	
¹⁰ <mark>hayan yu dalah jula</mark>	عدوارية حدفوان وماريغ البغارية الوحدو	hindlaw - Annin	ومعاويده الأرأس أبالا مروواهم		CF:	AUTO TUNE	
						step 000000 MHz	
						Auto Man	
					Free 0 H	Offset z	
art 0.7500 GHz es BW 100 kHz		#Video BW 300	kHz*	Stop 1. Sweep 12.0 ms (0000 GH	tis Scale Log Lin	Loca
50	Aug 19, 2021 6:07:05 PM	₽A				ial Track	

Plot 7-264. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Ch.	Dort #	Maggurament Dange	Level(dBm)	Limit (dDm)
Ch.	Port #	Measurement Range	QPSK	Limit (dBm)
	0	9 kHz to 150 kHz	-49.85	-39.0
	0	150 kHz to 30 MHz	-41.26	-29.0
	0	30 MHz to 720 MHz	-32.51	-19.0
Low	0	720 MHz to 727.9 MHz	-25.23	-19.0
	0	746.1 MHz to 750 MHz	-34.69	-19.0
	0	750 MHz to 1 GHz	-47.13	-19.0
	0	1 GHz to 8 GHz	-37.45	-19.0
	3	9 kHz to 150 kHz	-52.04	-39.0
	3	150 kHz to 30 MHz	-41.10	-29.0
	3	30 MHz to 720 MHz	-32.13	-19.0
Middle	3	720 MHz to 727.9 MHz	-33.16	-19.0
	3	746.1 MHz to 750 MHz	-33.32	-19.0
	3	750 MHz to 1 GHz	-47.57	-19.0
	3	1 GHz to 8 GHz	-37.71	-19.0
	3	9 kHz to 150 kHz	-51.89	-39.0
	3	150 kHz to 30 MHz	-40.63	-29.0
	3	30 MHz to 720 MHz	-31.70	-19.0
High	3	720 MHz to 727.9 MHz	-32.23	-19.0
	3	746.1 MHz to 750 MHz	-24.37	-19.0
	3	750 MHz to 1 GHz	-43.48	-19.0
	3	1 GHz to 8 GHz	-38.73	-19.0

 Table 7-53. Conducted Spurious Emission Summary Data

 (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti)

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Spectrum Analyze Swept SA	er 1 💡	+						Frequenc	y • ₩
	nput. RF Coupling: DC Nign: Auto	Input Z: 50 Q Corr CCorr RCal Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off	PNO. Best Cl Gate: Off IF Gain: Low Sig Track: Of	Avg Hold: Trig: Free	100/100	MS <mark>123456</mark> Awwwww ANNNNN	Center Frequency 79.500 kHz Span	Settings
1 Spectrum Scale/Div 10 dB	•		Ref Level -19.0	0 dBm			25.638 kHz 49.852 dBm	141.000000 kHz Swept Span Zero Span	
-29.0							DL1 (39.00 eBm	Full Span Start Freq 9.000 kHz	
-49.0	Ann	, ~~~~		~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Stop Freq 150.000 kHz	
-69.0 -79.0								AUTO TUNE CF Step 14,100 kHz	
-89.0 -99.0								Auto Man	
-109 Start 9.00 kHz #Res BW 1.0 kH			#Video BW 3.0	kHz'			Stop 150.00 kH: .5 ms (1001 pts	0 Hz X Axis Scale Log	Local
	2	Aug 19, 2021	đa			II N		Lin Signal Track	

Plot 7-266. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Low Channel)



Plot 7-268. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Low Channel)



Plot 7-270. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Low Channel)



Plot 7-272. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Low Channel)

KEYSIGHT Input. RF R L + Auto Align: Auto	Input Z: 50 0 #Atten: 20 dB Corr CCorr RCal Preamp: Off Freq Ref: Int (S) NFE: Adaptive	Gate: Off Avg/H	Type: Power (RMS 1 2 3 4 5 6 lold: 20/20 Free Run A N N N N N	Center Frequency 15.075000 MHz Soan
1 Spectrum v Scale/Div 10 dB	Ref Level -9.00) dBm	Mkr1 525 kH -41.260 dBn	29.8500000 MHz
-19.0			DL1 29.09 dDr	Full Span
-39.0 •1				Start Freq 150.000 kHz Stop Freq
-49.0 -59.0	ata a daha kara dan king disaka daha dan da	adalah manaharaharah	an ata ta Bira ta Gira da Milana	30.000000 MHz AUTO TUNE
-89.0				CF Step 2.985000 MHz
-89.0				Auto Man Freg Offset
-99.0				0 Hz X Axis Scale

Plot 7-267. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti - Low Channel)



Plot 7-269. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Low Channel)



Plot 7-271. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Low Channel)

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Plot 7-273. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti - Mid Channel)



Plot 7-275. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Mid Channel)



Plot 7-277. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti - Mid Channel)

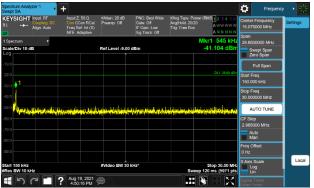


Plot 7-279. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Mid Channel)

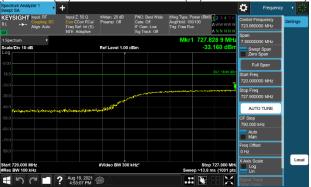
FCC ID: A3LRF4435D-71A		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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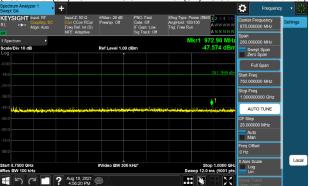
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Plot 7-274. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti - Mid Channel)



Plot 7-276. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – Mid Channel)



Plot 7-278. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti - Mid Channel)



	Input Z: 50 Ω #Atten: 6 dB	PNO: Best Close		\$	Frequency •
RL Coupling DC Align: Auto	Input Z. 50 Q. #Atten: 6 dB Corr CCorr RCal Preamp: Off Freq Ref: Int (S) NFE: Adaptive	PNO: Best Close Gate: Off IF Gain: Low Sig Track: Off		WW WWW 79.500 I	requency kHz
1 Spectrum • Scale/Div 10 dB	Ref Level -19.0	00 dBm	Mkr1 25. -51.8	85 dBm swe	1000 kHz ept Span o Span
					ill Span
49.0 1 -59.0 4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		9.000 ki Stop Fre 150.000	9
				×	TO TUNE
				14.100 Man	
				Freq Offs 0 Hz X Axis Si	
Start 9.00 kHz #Res BW 1.0 kHz	#Video BW 3.	0 KHz'	Stop Sweep 47.5 ms	150.00 kHi Log	

Plot 7-280. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)



Plot 7-282. Conducted Spurious Er (B85 NB-IoT(SA) 1C + LTE 1C 5M + N



Aug 19, 2021 5:10:38 PM .:: 💦 Plot 7-284. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)



Plot 7-286. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti – High Channel)

Start Freq 30.000000 MHz	-19.0		Start Freq 720.000000 MHz
Stop Freq 720.000000 MHz	-29.0		Stop Freq 727:900000 MHz
AUTO TUNE	0.00		AUTO TUNE
CF Step 69.000000 MHz	-50.0		CF Step 790.000 kHz
Auto	-09.0		Auto Man
Freq Offset 0 Hz	-89.0		Freq Offset 0 Hz
Stop 720.0 MHz Sweep 33.1 ms (13801 pts	Start 720.000 MHz #Video BV #Res BW 100 kHz	N 300 kHz" Stop 727.900 MH Sweep ~13.9 ms (1001 pts	
💷 🕃 🖃 🔀 Signal Track	■ つ C ■ ? Aug 19, 2021 ● △	🕅 🖬 🖉	Signal Track (Span Zoom)
mission Plot (30MHz to 720MHz)	Plot 7-283. Conducted Spu	rious Emission Plot (720MH	Iz to 727.9MHz)
NB-IoT(SA) 1C Conti – High Channel)	(B85 NB-IoT(SA) 1C + LTE 1	C 5M + NB-IoT(SA) 1C Con	iti – High Channel)
🔯 Frequency 🔹 🔆	Spectrum Analyzer 1		Frequency 🔹 🔆
Vide 1/Avg Type. Power (RMS) 2 3 4 5 6 Avg Hold: 100/100 Center Frequency Settings	KEYSIGHT Input. RF Input Z: 50 Ω #Atten: 20 RI Coupling DC Corr CCorr RCal Preamp: 0		Center Frequency Settings

+

Freq R

EYSIGHT

.7500 GHz

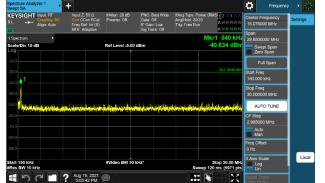
Auto Man

毛ってこ? Aug 19, 2021 🗩 .:: 💦 \mathbf{X} Plot 7-285. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti - High Channel)

#Video BW 300 kHz

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Plot 7-281. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Conti - High Channel)

Avg/Hold: 100/100 Trig: Free Run

727.773 6 f -32.230 d

750.20 43.476

Stop 1.000 12.0 ms (500

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quency D0 MHz

000 MH

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Swept Span Zero Span

Full Spa

AUTO TUNE

Axis Sc Log Lin

Local

PK-QP-16-14 Rev.01



Port #	Maggurament Dange	Level(dBm)	Limit (dDm)
FOIL#	Measurement Range	QPSK	Limit (dBm)
	9 kHz to 150 kHz	-49.79	-39.0
	150 kHz to 30 MHz	-39.78	-29.0
	30 MHz to 720 MHz	-32.43	-19.0
0	720 MHz to 727.9 MHz	-26.13	-19.0
	746.1 MHz to 750 MHz	-27.85	-19.0
-	750 MHz to 1 GHz	-47.21	-19.0
	1 GHz to 8 GHz	-37.44	-19.0

Table 7-54. Conducted Spurious Emission Summary Data (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)

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Spectrum Analyz Swept SA	ter 1 💡	+					Frequency	
	inpul. RF Coupling: DC Align: Auto	Input Z: 50 Q Corr CCorr RCal Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off	PNO: Best Close Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (R Avg Hold: 100/100 Trig: Free Run	MS 123456 AWWWWW ANNNN	Center Frequency 79.500 kHz Span	Settings
1 Spectrum Scale/Div 10 dB LOg	•		Ref Level -19.0	0 dBm		25.638 kHz I9.793 dBm	141.000000 kHz	
-29.0						DL1 -39.00 cDer	Full Span Start Freq	
-49.0	Å.	m	www	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9.000 kHz Stop Freq 150.000 kHz	
						V 40	AUTO TUNE CF Step	
-89.0							14.100 kHz Auto Man	
-109							Freq Offset 0 Hz X Axis Scale	Local
Start 9.00 kHz #Res BW 1.0 kH	2	Aug 19, 2021	#Video BW 3.0	kHz*		5 ms (1001 pts	Log Lin Signal Track	

Plot 7-287. Conducted Spurious Emission Plot (9kHz to 150kHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Plot 7-289. Conducted Spurious Emission Plot (30MHz to 720MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)

Spectrum Analyzer 1 Swept SA	• +					Frequency	
RL +++ Align:	ling: DC Corr Ci : Auto Freq R	2.50 Ω #Atten: 20 d CorrRCal Preamp: Off kef: Int (S) Adaptive		6e #Avg Type. Pow Avg Hold: 100/10 Trig: Free Run	er (RMS <mark>123456</mark> 00 A.W.W.W.W.W A.N.N.N.N.N	Center Frequency 748.050000 MHz	Settings
1 Spectrum Scale/Div 10 dB Log	•	Ref Level 1	l.00 dBm	Mkr1	746.100 0 MHz -27.847 dBm		
-9.00						Zero Spán Full Span	
-19.0					DL1 /19:00 dBm	Start Freq 746.100000 MHz	
-39.0					-	Stop Freq 750.000000 MHz	
-49.0					· hop-townships for points	AUTO TUNE GF Step	
-59.0						390.000 kHz Auto Man	
-79.0						Freq Offset 0 Hz	
Start 746.100 MHz #Res BW 100 kHz		#Video BW	300 kHz*	#Sweep	Stop 750.000 MH ~101 ms (1001 pts		Local
	- Aug 1	19, 2021					

4 ら C 🖬 ? Aug 19, 2021 🚍 📉 🕂 🔀 🚺 Plot 7-291. Conducted Spurious Emission Plot (746.1MHz to 750MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Plot 7-293. Conducted Spurious Emission Plot (1GHz to 8GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)

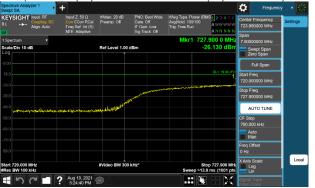
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Test Report S/N:	Test Dates:	EUT Type:		Dage 107 of 100
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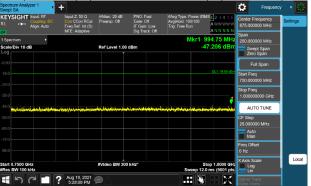
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Plot 7-288. Conducted Spurious Emission Plot (150kHz to 30MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Plot 7-290. Conducted Spurious Emission Plot (720MHz to 727.9MHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Plot 7-292. Conducted Spurious Emission Plot (750MHz to 1GHz) (B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C Non-conti)



Port #	Measurement Range	Level (dBm)	Limit (dBm)
_	9 kHz to 150 kHz	-51.81	-39.0
	150 kHz to 30 MHz	-43.24	-29.0
	30 MHz to 616.9 MHz	-25.32	-19.0
0	652.1 MHz to 727.9 MHz	-23.53	-19.0
	746.1 MHz to 750 MHz	-24.49	-19.0
	750 MHz to 1 GHz	-43.53	-19.0
	1 GHz to 8 GHz	-36.75	-19.0
	9 kHz to 150 kHz	-52.23	-39.0
	150 kHz to 30 MHz	-42.98	-29.0
	30 MHz to 616.9 MHz	-25.54	-19.0
1	652.1 MHz to 727.9 MHz	-24.07	-19.0
-	746.1 MHz to 750 MHz	-23.49	-19.0
	750 MHz to 1 GHz	-42.87	-19.0
	1 GHz to 8 GHz	-39.63	-19.0
	9 kHz to 150 kHz	-51.31	-39.0
	150 kHz to 30 MHz	-44.81	-29.0
	30 MHz to 616.9 MHz	-24.09	-19.0
2	652.1 MHz to 727.9 MHz	-23.31	-19.0
	746.1 MHz to 750 MHz	-23.22	-19.0
	750 MHz to 1 GHz	-44.68	-19.0
	1 GHz to 8 GHz	-38.33	-19.0
3	9 kHz to 150 kHz	-52.70	-39.0
	150 kHz to 30 MHz	-43.88	-29.0
	30 MHz to 616.9 MHz	-25.79	-19.0
	652.1 MHz to 727.9 MHz	-22.28	-19.0
	746.1 MHz to 750 MHz	-21.53	-19.0
	750 MHz to 1 GHz	-42.58	-19.0
	1 GHz to 8 GHz	-37.89	-19.0

Table 7-55. Conducted Spurious Emission Summary Data(Dual Band_71-85 B71 LTE 2C 10M+10M & B85 NB-IoT(SA) 1C + LTE 1C 5M + NB-IoT(SA) 1C)

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