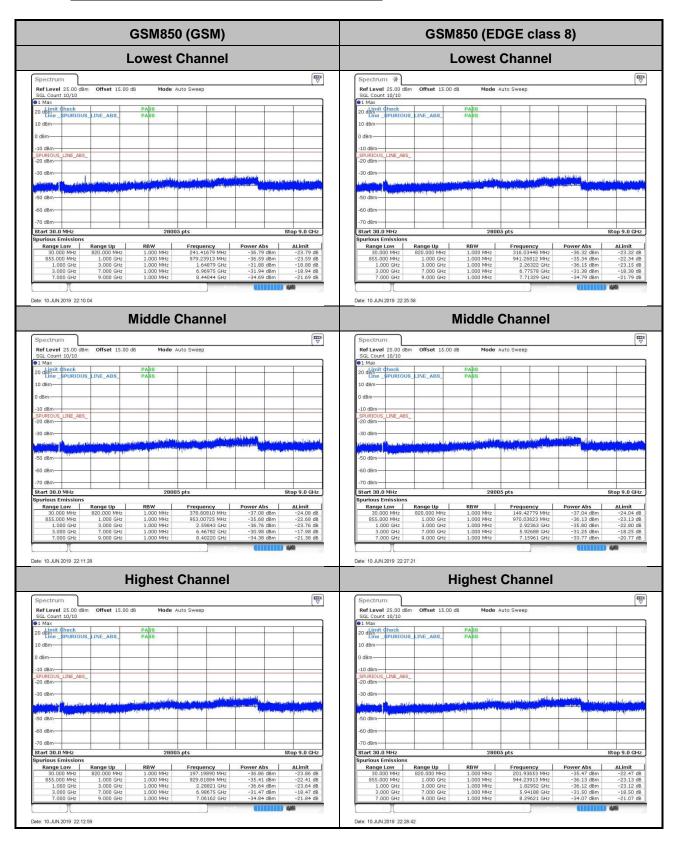
Conducted Spurious Emission



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GSM1900 (GSM) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel _ _** Ref Level 25.80 dBm Offset 15.80 dB SGL Count 10/10 1 Max Ref Level 25.80 dBm Offset 15.80 dB 20 den spurious_LINE_ABS 20 demit Check Start 30.0 MHz Stop 19.1 GHz Start 30.0 MHz Spurious Emissi 48006 pts Stop 19.1 GHz Range Low Frequency 123.31584 MHz Range Low 30.000 MHz Date: 10.JUN.2019 22:45:54 Date: 10.JUN.2019 23:08:07 **Middle Channel Middle Channel** 20 dbm spurious_LINE_ABS 20 dbm spurious_LINE_ABS. dBm-30 dBm Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz 28.01349 MHz 1.38661 GHz 2.17611 GHz 6.93976 GHz 12.83045 GHz 16.63205 GHz Date: 10.JUN.2019 22:47:18 Date: 10.JUN.2019 23:09:33 **Highest Channel Highest Channel** Ref Level 25.80 dBm SGL Count 10/10 20 dbm check Line_spurious_line_abs 20 dEm _ SPURIOUS_LINE_ABS Range Low
 Frequency
 Power Abs

 356,96902 MHz
 -35,37 dBn

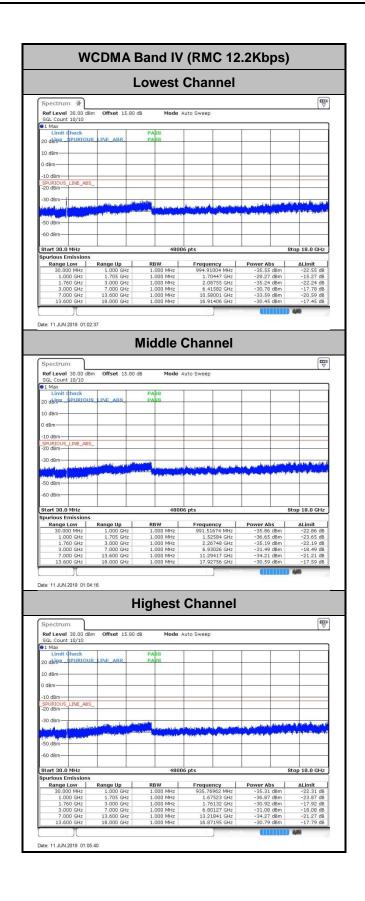
 Frequency
 Power Abs

 944.98001 MHz
 -35.91 dBn

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WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel ₩ _** Ref Level 25.80 dBm Offset 15.80 dB SGL Count 10/10 Ref Level 25.00 dBm Offset 15.00 dB 20 den spurious_LINE_ABS 20 demit Check Line SPURIOUS Start 30.0 MHz Spurious Emissi 48006 pts Stop 19.1 GHz Stop 9.0 GHz Start 30.0 MHz Spurious Emissions Range Low 30,000 MHz Frequency 443.74063 MHz Range Low 30,000 MHz Date: 11.JUN.2019 00:20:26 Date: 11.JUN.2019 00:38:23 **Middle Channel Middle Channel □** 20 dLimit Check Line _spurious_LINE_ABS 20 dbm spurious_LINE_ABS dBm-Start 30.0 MHz Stop 19.1 GHz Date: 11.JUN.2019 00:21:50 Date: 11.JUN.2019 00:39:46 **Highest Channel Highest Channel** Ref Level 25.00 SGL Count 10/10 20 dbm_spurious_LINE_ABS 20 dsm _spurious_Line_abs Start 30.0 MH Stop 9.0 GHz

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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0048	0.0060	
40	Normal Voltage	0.0526	0.0167	
30	Normal Voltage	0.0120	0.0538	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0574	0.0335	
0	Normal Voltage	0.0191	0.0538	
-10	Normal Voltage	0.0084	0.0466	PASS
-20	Normal Voltage	0.0143	0.0167	
-30	Normal Voltage	0.0108	0.0478	
20	Maximum Voltage	0.0466	0.0514	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0395	0.0395	

Note: Normal Voltage = 3.8V ; Battery End Point (BEP) = 3.6V.; Maximum Voltage = 4.4V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0053	0.0005	
40	Normal Voltage	0.0016	0.0016	
30	Normal Voltage	0.0027	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0170	0.0255	
0	Normal Voltage	0.0074	0.0186	
-10	Normal Voltage	0.0160	0.0011	PASS
-20	Normal Voltage	0.0218	0.0037	
-30	Normal Voltage	0.0005	0.0213	
20	Maximum Voltage	0.0053	0.0160	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0133	0.0011	

Note:

- 1. Normal Voltage = 3.8V ; Battery End Point (BEP) = 3.6V.; Maximum Voltage = 4.4V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	
40	Normal Voltage	0.0395	
30	Normal Voltage	0.0442	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0323	
-10	Normal Voltage	0.0048	PASS
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0442	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage = 3.8V ; Battery End Point (BEP) = 3.6V.; Maximum Voltage = 4.4V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0186	
40	Normal Voltage	0.0128	
30	Normal Voltage	0.0165	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0117	
0	Normal Voltage	0.0154	
-10	Normal Voltage	0.0239	PASS
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0117	
20	Maximum Voltage	0.0165	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

- 1. Normal Voltage = 3.8V ; Battery End Point (BEP) = 3.6V.; Maximum Voltage = 4.4V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0069	
40	Normal Voltage	0.0156	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0150	PASS
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0092	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0167	

Note:

- 1. Normal Voltage = 3.8V ; Battery End Point (BEP) = 3.6V.; Maximum Voltage = 4.4V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

				GSM850 (GS	M)			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1648	-45.62	-13	-32.62	-52.59	1.58	10.70	Н
	2472	-33.49	-13	-20.49	-41.74	2.102	12.50	Н
	3294	-50.90	-13	-37.90	-59.79	2.856	13.90	Н
Lowoot	4122	-60.17	-13	-47.17	-68.63	2.689	13.30	Н
Lowest	1648	-53.75	-13	-40.75	-60.72	1.58	10.70	V
	2472	-43.09	-13	-30.09	-51.34	2.10	12.50	V
	3294	-58.70	-13	-45.70	-67.59	2.86	13.90	V
	4122	-60.26	-13	-47.26	-68.72	2.69	13.30	V
	1672	-55.52	-13	-42.52	-62.49	1.58	10.70	Н
	2510	-24.58	-13	-11.58	-32.83	2.102	12.50	Н
	3348	-52.39	-13	-39.39	-61.28	2.856	13.90	Н
	4182	-51.76	-13	-38.76	-60.22	2.689	13.30	Н
Middle	5016	-56.67	-13	-43.67	-64.43	3.093	13.00	Н
Middle	1672	-64.22	-13	-51.22	-71.19	1.58	10.70	V
	2510	-31.10	-13	-18.10	-39.35	2.10	12.50	V
	3348	-54.54	-13	-41.54	-63.43	2.86	13.90	V
	4182	-49.35	-13	-36.35	-57.81	2.69	13.30	V
	5016	-58.73	-13	-45.73	-66.49	3.09	13.00	V
	1698	-48.73	-13	-35.73	-55.70	1.58	10.70	Н
	2546	-40.66	-13	-27.66	-48.91	2.102	12.50	Н
	3396	-64.10	-13	-51.10	-72.99	2.856	13.90	Н
Llighaat	4242	-58.57	-13	-45.57	-67.03	2.689	13.30	Н
Highest	1698	-59.59	-13	-46.59	-66.56	1.58	10.70	V
	2546	-48.20	-13	-35.20	-56.45	2.10	12.50	V
	3396	-64.14	-13	-51.14	-73.03	2.86	13.90	V
	4242	-59.21	-13	-46.21	-67.67	2.69	13.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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			GSM	850 (EDGE o	lass 8)			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1648	-47.37	-13	-34.37	-54.34	1.58	10.70	Н
	2472	-36.47	-13	-23.47	-44.72	2.102	12.50	Н
	3294	-55.26	-13	-42.26	-64.15	2.856	13.90	Н
Lowest	4122	-55.52	-13	-42.52	-63.98	2.689	13.30	Н
Lowest	1648	-50.92	-13	-37.92	-57.89	1.58	10.70	V
	2472	-34.04	-13	-21.04	-42.29	2.10	12.50	V
	3294	-55.91	-13	-42.91	-64.80	2.86	13.90	V
	4122	-58.90	-13	-45.90	-67.36	2.69	13.30	V
	1672	-46.67	-13	-33.67	-53.64	1.58	10.70	Н
	2510	-38.25	-13	-25.25	-46.50	2.102	12.50	Н
	3348	-61.19	-13	-48.19	-70.08	2.856	13.90	Н
Middle	4182	-55.90	-13	-42.90	-64.36	2.689	13.30	Н
ivildale	1672	-56.63	-13	-43.63	-63.60	1.58	10.70	V
	2510	-48.55	-13	-35.55	-56.80	2.10	12.50	V
	3348	-63.80	-13	-50.80	-72.69	2.86	13.90	V
	4182	-56.32	-13	-43.32	-64.78	2.69	13.30	V
	1698	-51.57	-13	-38.57	-58.54	1.58	10.70	Н
	2546	-33.42	-13	-20.42	-41.67	2.102	12.50	Н
	3396	-58.12	-13	-45.12	-67.01	2.856	13.90	Н
∐ighoct	4242	-57.46	-13	-44.46	-65.92	2.689	13.30	Н
Highest	1698	-55.35	-13	-42.35	-62.32	1.58	10.70	V
	2546	-45.95	-13	-32.95	-54.20	2.10	12.50	V
	3396	-62.96	-13	-49.96	-71.85	2.86	13.90	V
	4242	-57.67	-13	-44.67	-66.13	2.69	13.30	V

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			0	SSM1900 (GS	SM)			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3699	-55.65	-13	-42.65	-67.91	2.641	14.90	Н
	5550	-39.29	-13	-26.29	-51.15	2.94	14.80	Н
Laurant	7404	-51.92	-13	-38.92	-61.69	3.39	13.16	Н
Lowest	3699	-57.67	-13	-44.67	-69.93	2.64	14.90	V
	5550	-40.39	-13	-27.39	-52.25	2.94	14.80	V
	7404	-51.26	-13	-38.26	-61.03	3.39	13.16	V
	3759	-57.72	-13	-44.72	-69.98	2.641	14.90	Н
	5640	-39.77	-13	-26.77	-51.63	2.94	14.80	Н
NA: -I -II -	7524	-51.69	-13	-38.69	-61.46	3.39	13.16	Н
Middle	3759	-57.86	-13	-44.86	-70.12	2.64	14.90	V
	5640	-41.12	-13	-28.12	-52.98	2.94	14.80	V
	7524	-51.13	-13	-38.13	-60.90	3.39	13.16	V
	3819	-59.64	-13	-46.64	-71.90	2.641	14.90	Н
	5730	-44.96	-13	-31.96	-56.82	2.94	14.80	Н
I Pales a	7644	-52.90	-13	-39.90	-62.67	3.39	13.16	Н
Highest	3819	-59.74	-13	-46.74	-72.00	2.64	14.90	V
	5730	-46.85	-13	-33.85	-58.71	2.94	14.80	V
	7644	-51.16	-13	-38.16	-60.93	3.39	13.16	V

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			GSM ²	1900 (EDGE	class 8)			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3699	-51.15	-13	-38.15	-63.41	2.641	14.90	Н
	5550	-53.97	-13	-40.97	-65.83	2.94	14.80	Н
Louiset	7404	-52.11	-13	-39.11	-61.88	3.39	13.16	Н
Lowest	3699	-51.87	-13	-38.87	-64.13	2.64	14.90	V
	5550	-54.48	-13	-41.48	-66.34	2.94	14.80	V
	7404	-51.18	-13	-38.18	-60.95	3.39	13.16	V
	3759	-54.21	-13	-41.21	-66.47	2.641	14.90	Н
	5640	-49.08	-13	-36.08	-60.94	2.94	14.80	Н
M:ddla	7524	-52.22	-13	-39.22	-61.99	3.39	13.16	Н
Middle	3759	-54.98	-13	-41.98	-67.24	2.64	14.90	V
	5640	-48.30	-13	-35.30	-60.16	2.94	14.80	V
	7524	-50.93	-13	-37.93	-60.70	3.39	13.16	V
	3819	-59.28	-13	-46.28	-71.54	2.641	14.90	Н
	5730	-40.26	-13	-27.26	-52.12	2.94	14.80	Н
I l'ada a c'	7644	-51.72	-13	-38.72	-61.49	3.39	13.16	Н
Highest	3819	-59.49	-13	-46.49	-71.75	2.64	14.90	V
	5730	-44.06	-13	-31.06	-55.92	2.94	14.80	V
	7644	-51.45	-13	-38.45	-61.22	3.39	13.16	V

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	WCDMA Band V(RMC 12.2Kbps)										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)			
	1652	-61.24	-13	-48.24	-68.21	1.58	10.70	Н			
	2480	-65.12	-13	-52.12	-73.37	2.102	12.50	Н			
Lowoot	3306	-64.08	-13	-51.08	-72.97	2.856	13.90	Н			
Lowest	1652	-67.08	-13	-54.08	-74.05	1.58	10.70	V			
	2480	-64.58	-13	-51.58	-72.83	2.10	12.50	V			
	3306	-64.27	-13	-51.27	-73.16	2.86	13.90	V			
	1672	-63.23	-13	-50.23	-70.20	1.58	10.70	Н			
	2510	-65.01	-13	-52.01	-73.26	2.102	12.50	Н			
Middle	3348	-64.49	-13	-51.49	-73.38	2.856	13.90	Н			
Middle	1672	-68.83	-13	-55.83	-75.80	1.58	10.70	V			
	2510	-65.34	-13	-52.34	-73.59	2.10	12.50	V			
	3348	-64.42	-13	-51.42	-73.31	2.86	13.90	V			
	1694	-64.55	-13	-51.55	-71.52	1.58	10.70	Н			
	2540	-65.32	-13	-52.32	-73.57	2.102	12.50	Н			
I li ada a cit	3384	-64.54	-13	-51.54	-73.43	2.856	13.90	Н			
Highest	1694	-68.38	-13	-55.38	-75.35	1.58	10.70	V			
	2540	-65.48	-13	-52.48	-73.73	2.10	12.50	V			
	3384	-63.87	-13	-50.87	-72.76	2.86	13.90	V			

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			WCDMA	Band II(RMC	: 12.2Kbps)			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3705	-47.85	-13	-34.85	-60.11	2.641	14.90	Н
	5556	-56.47	-13	-43.47	-68.33	2.94	14.80	Н
Lawaat	7404	-51.82	-13	-38.82	-61.59	3.39	13.16	Н
Lowest	3705	-44.47	-13	-31.47	-56.73	2.64	14.90	V
	5556	-53.85	-13	-40.85	-65.71	2.94	14.80	V
	7404	-51.85	-13	-38.85	-61.62	3.39	13.16	V
	3759	-48.45	-13	-35.45	-60.71	2.641	14.90	Н
	5640	-57.24	-13	-44.24	-69.10	2.94	14.80	Н
M: al all a	7524	-52.02	-13	-39.02	-61.79	3.39	13.16	Н
Middle	3759	-44.99	-13	-31.99	-57.25	2.64	14.90	V
	5640	-56.81	-13	-43.81	-68.67	2.94	14.80	V
	7524	-51.47	-13	-38.47	-61.24	3.39	13.16	V
	3816	-47.87	-13	-34.87	-60.13	2.641	14.90	Н
	5724	-56.81	-13	-43.81	-68.67	2.94	14.80	Н
I Palacat	7632	-51.93	-13	-38.93	-61.70	3.39	13.16	Н
Highest	3816	-41.37	-13	-28.37	-53.63	2.64	14.90	V
	5724	-55.61	-13	-42.61	-67.47	2.94	14.80	V
	7632	-51.30	-13	-38.30	-61.07	3.39	13.16	V

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			WCDMA	Band IV(RM0	C 12.2Kbps)			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3426	-63.11	-13	-50.11	-73.85	2.604	13.34	Н
	5136	-58.32	-13	-45.32	-68.83	3.011	13.52	Н
Lowoot	6852	-54.92	-13	-41.92	-65.12	3.271	13.47	Н
Lowest	3426	-62.10	-13	-49.10	-72.84	2.604	13.34	V
	5136	-58.49	-13	-45.49	-69.00	3.011	13.52	V
	6852	-54.69	-13	-41.69	-64.89	3.271	13.47	V
	3465	-63.60	-13	-50.60	-74.34	2.604	13.34	Н
	5199	-56.43	-13	-43.43	-66.94	3.011	13.52	Н
Middle	6936	-54.06	-13	-41.06	-64.26	3.271	13.47	Н
Middle	3465	-63.27	-13	-50.27	-74.01	2.604	13.34	V
	5199	-56.50	-13	-43.50	-67.01	3.011	13.52	V
	6936	-53.91	-13	-40.91	-64.11	3.271	13.47	V
	3504	-62.68	-13	-49.68	-73.42	2.604	13.34	Н
	5259	-57.75	-13	-44.75	-68.26	3.011	13.52	Н
I Carla a c C	7008	-52.73	-13	-39.73	-62.93	3.271	13.47	Н
Highest	3504	-62.15	-13	-49.15	-72.89	2.604	13.34	V
	5259	-57.10	-13	-44.10	-67.61	3.011	13.52	V
	7008	-52.51	-13	-39.51	-62.71	3.271	13.47	V

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Report Issued Date : Aug. 05, 2019
Report Version : Rev. 01