

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121318\
 Data File : VL032986.D
 Acq On : 13 Dec 2018 16:26
 Operator : SY/AP
 Sample : VL1213ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 11:18:53 AM

Quant Time: Dec 14 02:40:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1257966	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3313645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3433391m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2507934	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1740514	10.364	ppbv 99
3) Chlorodifluoromethane	3.01	51	948660	9.958	ppbv 99
4) Chloromethane	3.17	50	509028	9.177	ppbv 97
5) Vinyl Chloride	3.29	62	529905	9.390	ppbv 98
6) Bromomethane	3.51	94	360784	10.221	ppbv 98
7) Chloroethane	3.60	64	204434	10.107	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1358141	9.732	ppbv 99
9) Propene	3.04	41	377054	10.009	ppbv 97
10) Heptane	8.25	43	1339375	9.465	ppbv 100
11) Trichlorofluoromethane	4.00	101	1569247	9.918	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1531452	11.345	ppbv 98
13) Ethanol	3.65	45	89125	6.871	ppbv 96
14) Bromoethene	3.79	108	468532	10.454	ppbv 98
15) Acetone	3.90	43	969586	8.980	ppbv 100
16) 1,3-Butadiene	3.36	39	489024	11.416	ppbv 96
17) tert-Butyl alcohol	4.36	59	312455	11.366	ppbv # 81
18) 1,1-Dichloroethene	4.35	96	587875	11.120	ppbv 99
19) Isopropyl Alcohol	4.02	45	667437	9.843	ppbv 99
20) Methylene Chloride	4.41	84	571435	10.828	ppbv 97
21) Allyl Chloride	4.48	41	1098620	12.485	ppbv 100
22) trans-1,2-Dichloroethene	4.97	96	625964	9.540	ppbv 99
23) Vinyl Acetate	5.16	43	2250418	12.310	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1707028	10.738	ppbv 99
25) Ethyl Acetate	5.77	43	2472459	9.693	ppbv 100
26) Hexane	5.78	57	1132759	9.619	ppbv 98
27) Carbon Disulfide	4.62	76	1470340	9.986	ppbv 99
28) Methyl tert-Butyl Ether	5.12	73	2130284	12.045	ppbv 100
29) Chloroform	5.85	83	1925518	9.164	ppbv 100
30) Cyclohexane	7.25	84	1046176	10.719	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	1132199	10.477	ppbv 97
32) 1,1,1-Trichloroethane	6.62	97	2206521	9.925	ppbv 100
34) 2-Butanone	5.33	43	1617228	11.205	ppbv 98
35) Carbon Tetrachloride	7.14	117	2288201	8.785	ppbv 100
36) Benzene	7.01	78	2199066	9.023	ppbv 98
37) 1,2-Dichloroethane	6.42	62	1650569	9.947	ppbv 100
38) Trichloroethene	7.97	130	1045096	10.304	ppbv 97
39) 1,2-Dichloropropane	7.74	63	822114	8.894	ppbv 95
40) 1,4-Dioxane	7.96	88	324141	9.521	ppbv # 98
41) Tetrahydrofuran	6.15	42	966012	10.761	ppbv 99
42) Bromodichloromethane	7.92	83	2280361	9.919	ppbv 99
43) Methyl Methacrylate	8.14	69	896496	9.927	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4195389	10.141	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1398922	12.633	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1588672	11.722	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1055171	10.371	ppbv	98
48) Dibromochloromethane	10.46	129	1993461	10.445	ppbv	99
49) Bromoform	13.21	173	1682782	10.720	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2406615	10.427	ppbv	100
51) 2-Hexanone	10.27	43	1826963m	11.671	ppbv	
52) Tetrachloroethene	11.38	164	981495	11.071	ppbv	99
53) Toluene	9.95	91	2952826	11.423	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1655108	10.414	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1399413	9.142	ppbv	96
57) Chlorobenzene	12.31	112	2272949	9.166	ppbv	98
58) Ethyl Benzene	12.87	91	3989615	10.893	ppbv	99
59) m/p-Xylene	13.15	91	6788950m	20.445	ppbv	
60) o-Xylene	13.86	91	3347582	9.982	ppbv	100
61) Styrene	13.69	104	2438354	10.931	ppbv	100
62) Isopropylbenzene	14.83	105	4992700	10.671	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2323232	8.922	ppbv	99
64) n-propylbenzene	15.73	120	1213506	9.986	ppbv	99
65) tert-Butylbenzene	16.92	119	4245305	9.788	ppbv	99
66) Benzyl Chloride	17.16	91	2603257	10.829	ppbv	100
67) sec-Butylbenzene	17.47	105	5974721	9.343	ppbv	100
69) p-Isopropyltoluene	17.82	119	5013032	9.673	ppbv	99
70) n-Butylbenzene	18.72	91	5287405	11.089	ppbv	99
71) 2-Chlorotoluene	15.62	91	3558338	10.227	ppbv	99
72) 4-Ethyltoluene	16.00	105	3839152	10.255	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3798227	10.392	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3865964	9.368	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	2165465	8.910	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2113476	9.320	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2206347	9.722	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	956791	7.666	ppbv	99
79) Naphthalene	22.42	128	3008817	11.291	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	638918	11.222	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1446835	10.238	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

