

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033282.D
 Acq On : 12 Mar 2019 13:09
 Operator : SY/AP
 Sample : VL0312ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:58 AM

Quant Time: Mar 13 17:44:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14 07:17:55 2019
 QLast Update : Wed Mar 13 07:17:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	880610	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2025081	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2160503m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1658823	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.08	85	1557602	8.758	ppbv 100
3) Chlorodifluoromethane	3.01	51	986182	8.443	ppbv 100
4) Chloromethane	3.17	50	520482	8.334	ppbv 96
5) Vinyl Chloride	3.29	62	516046	8.462	ppbv 100
6) Bromomethane	3.52	94	314241	8.435	ppbv 95
7) Chloroethane	3.60	64	275112	12.474	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1260461	8.384	ppbv 100
9) Propene	3.04	41	431034	8.095	ppbv 98
10) Heptane	8.25	43	1149539	9.584	ppbv 100
11) Trichlorofluoromethane	4.00	101	1420136	8.068	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	965056	9.579	ppbv 99
13) Ethanol	3.65	45	119473	7.354	ppbv 94
14) Bromoethene	3.79	108	409127	8.707	ppbv 99
15) Acetone	3.90	43	1013072	7.499	ppbv 100
16) 1,3-Butadiene	3.36	39	440662	9.034	ppbv 95
17) tert-Butyl alcohol	4.36	59	159606	8.804	ppbv 97
18) 1,1-Dichloroethene	4.35	96	428067	9.599	ppbv 92
19) Isopropyl Alcohol	4.02	45	520477	6.375	ppbv # 99
20) Methylene Chloride	4.41	84	367024	8.172	ppbv 99
21) Allyl Chloride	4.48	41	664712	9.898	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	424655	8.929	ppbv 99
23) Vinyl Acetate	5.16	43	1595921	9.429	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1088725	8.870	ppbv 99
25) Ethyl Acetate	5.77	43	1893222	9.095	ppbv 100
26) Hexane	5.78	57	843266	8.631	ppbv 98
27) Carbon Disulfide	4.62	76	1083199	10.449	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1278239	9.219	ppbv 100
29) Chloroform	5.85	83	1358269	9.138	ppbv 99
30) Cyclohexane	7.25	84	716683	9.461	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	902289	9.633	ppbv 100
32) 1,1,1-Trichloroethane	6.62	97	1374248	9.488	ppbv 100
34) 2-Butanone	5.33	43	1229777	9.184	ppbv 100
35) Carbon Tetrachloride	7.14	117	1452359	9.816	ppbv 99
36) Benzene	7.01	78	1804528	9.662	ppbv 97
37) 1,2-Dichloroethane	6.42	62	1081046	9.651	ppbv 100
38) Trichloroethene	7.96	130	672592	9.239	ppbv 98
39) 1,2-Dichloropropane	7.74	63	684555	9.740	ppbv 100
40) 1,4-Dioxane	7.96	88	212156	8.020	ppbv 79
41) Tetrahydrofuran	6.15	42	710552	9.557	ppbv 99
42) Bromodichloromethane	7.92	83	1562426	10.132	ppbv 100
43) Methyl Methacrylate	8.14	69	735410	10.102	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2974470	9.376	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	999743	11.172	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	1127980	10.754	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	734656	9.789	ppbv	96
48) Dibromochloromethane	10.45	129	1301644	10.578	ppbv	99
49) Bromoform	13.21	173	1153487	11.565	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1855785	9.710	ppbv	100
51) 2-Hexanone	10.27	43	1467860	10.062	ppbv #	100
52) Tetrachloroethene	11.37	164	656239	9.585	ppbv	99
53) Toluene	9.95	91	2102339	9.766	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1163663	10.088	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	895291	9.749	ppbv #	61
57) Chlorobenzene	12.30	112	1531929	9.402	ppbv	98
58) Ethyl Benzene	12.87	91	2928414	9.863	ppbv	98
59) m/p-Xylene	13.15	91	4868272m	19.607	ppbv	
60) o-Xylene	13.85	91	2344335	9.821	ppbv	100
61) Styrene	13.69	104	1763693	10.375	ppbv	100
62) Isopropylbenzene	14.83	105	3287152	9.883	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1591009	9.943	ppbv	100
64) n-propylbenzene	15.73	120	834442	10.196	ppbv	99
65) tert-Butylbenzene	16.91	119	2865316	10.206	ppbv	99
66) Benzyl Chloride	17.16	91	1483994	13.647	ppbv	100
67) sec-Butylbenzene	17.46	105	4102733	10.268	ppbv	100
69) p-Isopropyltoluene	17.82	119	3363814	10.421	ppbv	100
70) n-Butylbenzene	18.71	91	3530331	10.185	ppbv	99
71) 2-Chlorotoluene	15.62	91	2543173	10.144	ppbv	100
72) 4-Ethyltoluene	16.00	105	2726764	10.575	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2570750	10.581	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2626955	10.617	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	1513646	10.207	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1508110	10.283	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1456504	9.866	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	830336	6.751	ppbv	100
79) Naphthalene	22.42	128	2865579	10.698	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	1506408	20.525	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1351362	9.583	ppbv	100

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

