

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033278.D
 Acq On : 12 Mar 2019 6:11
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:49 AM

Quant Time: Mar 12 06:51:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	900154	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2021945	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2207012m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1673084	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2246986	12.035	ppbv	99
3) Chlorodifluoromethane	3.01	51	1477395	13.017	ppbv	99
4) Chloromethane	3.17	50	800129	13.416	ppbv	97
5) Vinyl Chloride	3.29	62	787423	13.642	ppbv	98
6) Bromomethane	3.52	94	479650	13.111	ppbv	93
7) Chloroethane	3.60	64	285344	13.361	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1885622	12.772	ppbv	100
9) Propene	3.04	41	667419	13.241	ppbv	100
10) Heptane	8.25	43	1729773	14.471	ppbv	100
11) Trichlorofluoromethane	4.00	101	2117809	13.546	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1409110	14.337	ppbv	100
13) Ethanol	3.65	45	149898	10.654	ppbv	99
14) Bromoethene	3.79	108	616625	15.240	ppbv	99
15) Acetone	3.90	43	1419255	12.668	ppbv	98
16) 1,3-Butadiene	3.36	39	695008	14.379	ppbv	93
17) tert-Butyl alcohol	4.36	59	263527	14.982	ppbv	100
18) 1,1-Dichloroethene	4.35	96	637363	14.799	ppbv	96
19) Isopropyl Alcohol	4.02	45	962986	14.329	ppbv	100
20) Methylene Chloride	4.41	84	555512	12.558	ppbv	95
21) Allyl Chloride	4.48	41	1000356	15.438	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	685563	14.931	ppbv	97
23) Vinyl Acetate	5.16	43	2434644	15.675	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1636657	13.891	ppbv	100
25) Ethyl Acetate	5.77	43	2885813	14.071	ppbv	100
26) Hexane	5.78	57	1293622	13.382	ppbv	99
27) Carbon Disulfide	4.62	76	1647933	16.840	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1896429	14.878	ppbv	100
29) Chloroform	5.85	83	2110876	14.356	ppbv	98
30) Cyclohexane	7.25	84	1081155	14.885	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1376907	15.076	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2085514	15.043	ppbv	100
34) 2-Butanone	5.33	43	1906596	15.209	ppbv	100
35) Carbon Tetrachloride	7.14	117	2207093	15.937	ppbv	99
36) Benzene	7.01	78	2688077	15.039	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1653548	14.485	ppbv	100
38) Trichloroethene	7.97	130	989279	14.629	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1020633	14.926	ppbv	99
40) 1,4-Dioxane	7.96	88	396291	15.807	ppbv	76
41) Tetrahydrofuran	6.15	42	1102465	15.542	ppbv	100
42) Bromodichloromethane	7.92	83	2327749	15.286	ppbv	98
43) Methyl Methacrylate	8.14	69	1123053	16.087	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4442460	14.412	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1544064	18.241	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1694418	16.988	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1112653	15.156	ppbv	97
48) Dibromochloromethane	10.46	129	1941234	16.132	ppbv	100
49) Bromoform	13.21	173	1611245	14.922	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2769885	14.995	ppbv	99
51) 2-Hexanone	10.27	43	2205212	16.012	ppbv #	99
52) Tetrachloroethene	11.38	164	970559	14.855	ppbv	98
53) Toluene	9.95	91	3173515	15.891	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1728004	15.011	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	1320266	14.311	ppbv #	66
57) Chlorobenzene	12.31	112	2243616	13.822	ppbv	100
58) Ethyl Benzene	12.87	91	4302958	14.370	ppbv	97
59) m/p-Xylene	13.13	91	7059788m	26.080	ppbv	
60) o-Xylene	13.86	91	3390884	12.980	ppbv	100
61) Styrene	13.69	104	2569259	14.405	ppbv	100
62) Isopropylbenzene	14.83	105	4700908	13.484	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2200781	13.070	ppbv	99
64) n-propylbenzene	15.73	120	1191843	13.955	ppbv	100
65) tert-Butylbenzene	16.92	119	4012747	13.672	ppbv	99
66) Benzyl Chloride	17.16	91	2149621	19.655	ppbv	99
67) sec-Butylbenzene	17.46	105	5757787	13.827	ppbv	100
69) p-Isopropyltoluene	17.82	119	4782183	14.132	ppbv	100
70) n-Butylbenzene	18.72	91	5166728	14.089	ppbv	99
71) 2-Chlorotoluene	15.62	91	3622273	13.903	ppbv	100
72) 4-Ethyltoluene	16.00	105	3883897	14.300	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3659393	14.146	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3704897	13.740	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2146927	13.493	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2187823	14.015	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2137966	13.921	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1593997	13.693	ppbv	99
79) Naphthalene	22.42	128	5610199	19.045	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	2077764	29.152	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2584443	16.978	ppbv	100

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

