

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033258.D
 Acq On : 8 Mar 2019 14:04
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:11 AM

Quant Time: Mar 08 17:23:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 17:23:23 2019
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	966416	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2158596	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2499069	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1964279	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	198561	1.454	ppbv	100
3) Chlorodifluoromethane	3.02	51	115467	1.044	ppbv	99
4) Chloromethane	3.17	50	62007	1.089	ppbv	98
5) Vinyl Chloride	3.29	62	60151	0.942	ppbv	93
6) Bromomethane	3.52	94	36406	0.997	ppbv	93
7) Chloroethane	3.60	64	22419	1.051	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	152613	1.131	ppbv	98
9) Propene	3.04	41	49871	1.012	ppbv	98
10) Heptane	8.25	43	127845	0.953	ppbv	99
11) Trichlorofluoromethane	4.00	101	171047	1.067	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	112962	1.087	ppbv	98
13) Ethanol	3.66	45	17386m	1.180	ppbv	
14) Bromoethene	3.79	108	44094	1.007	ppbv	99
15) Acetone	3.91	43	129109	1.038	ppbv	99
16) 1,3-Butadiene	3.36	39	47491	0.956	ppbv	87
17) tert-Butyl alcohol	4.38	59	19916m	0.983	ppbv	
18) 1,1-Dichloroethene	4.35	96	47502	1.027	ppbv	90
19) Isopropyl Alcohol	4.04	45	77635m	1.050	ppbv	
20) Methylene Chloride	4.41	84	53276	1.130	ppbv	92
21) Allyl Chloride	4.48	41	72954	1.051	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	47402	1.004	ppbv	95
23) Vinyl Acetate	5.15	43	167223	0.912	ppbv	99
24) 1,1-Dichloroethane	5.09	63	125654	0.961	ppbv	98
25) Ethyl Acetate	5.77	43	231858	1.017	ppbv	99
26) Hexane	5.78	57	111906	1.050	ppbv	94
27) Carbon Disulfide	4.62	76	99701	0.970	ppbv	94
28) Methyl tert-Butyl Ether	5.12	73	137858	0.938	ppbv	97
29) Chloroform	5.85	83	159168	0.960	ppbv	94
30) Cyclohexane	7.24	84	76335	0.957	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	96409	0.937	ppbv #	94
32) 1,1,1-Trichloroethane	6.62	97	148315	0.922	ppbv	96
34) 2-Butanone	5.34	43	142371	0.952	ppbv	99
35) Carbon Tetrachloride	7.13	117	158987	0.974	ppbv	91
36) Benzene	7.00	78	194859	0.962	ppbv	95
37) 1,2-Dichloroethane	6.41	62	125346	0.994	ppbv	99
38) Trichloroethene	7.96	130	75674	0.989	ppbv	93
39) 1,2-Dichloropropane	7.73	63	75534	0.955	ppbv	97
40) 1,4-Dioxane	7.98	88	29592m	1.008	ppbv	
41) Tetrahydrofuran	6.17	42	76475	0.931	ppbv	98
42) Bromodichloromethane	7.91	83	163305	0.916	ppbv #	96
43) Methyl Methacrylate	8.14	69	75234	0.918	ppbv	98

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44) 2,2,4-Trimethylpentane	7.99	57	354553	0.990	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	83924	0.846	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	101735	0.860	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	82808	0.973	ppbv #	82
48) Dibromochloromethane	10.44	129	127634	0.926	ppbv	100
49) Bromoform	13.20	173	113611m	1.032	ppbv	
50) 4-Methyl-2-Pentanone	8.88	43	207663	0.939	ppbv	96
51) 2-Hexanone	10.28	43	148617	0.898	ppbv #	99
52) Tetrachloroethene	11.37	164	82968	1.099	ppbv	93
53) Toluene	9.95	91	217553	0.929	ppbv	99
54) 1,2-Dibromoethane	10.75	107	141343	1.093	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.27	131	107928	0.995	ppbv #	1
57) Chlorobenzene	12.30	112	199816	1.027	ppbv	91
58) Ethyl Benzene	12.86	91	342445	0.991	ppbv	97
59) m/p-Xylene	13.12	91	595066m	2.020	ppbv	
60) o-Xylene	13.84	91	285219	1.016	ppbv	98
61) Styrene	13.68	104	186603	0.945	ppbv	98
62) Isopropylbenzene	14.82	105	398605	1.018	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	192699	0.964	ppbv	99
64) n-propylbenzene	15.71	120	94013m	0.969	ppbv	
65) tert-Butylbenzene	16.91	119	326029m	0.975	ppbv	
66) Benzyl Chloride	17.15	91	97024m	0.750	ppbv	
67) sec-Butylbenzene	17.45	105	466291	0.978	ppbv	99
69) p-Isopropyltoluene	17.81	119	372413	0.966	ppbv	98
70) n-Butylbenzene	18.71	91	402137	0.953	ppbv	99
71) 2-Chlorotoluene	15.61	91	295748	0.988	ppbv	99
72) 4-Ethyltoluene	15.99	105	304634m	0.993	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	279845	0.950	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	305156	0.985	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	181532	1.002	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	172851	0.963	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	171770	0.977	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	135471	1.089	ppbv	98
79) Naphthalene	22.41	128	258805	0.683	ppbv	96
80) Naphthalene, 2-methyl-	25.11	142	19929	0.176	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	147565m	0.776	ppbv	

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

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