

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032226.D
 Acq On : 6 Jul 2018 9:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:48:02 AM

Quant Time: Jul 06 12:55:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1634691	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4134837	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3957301m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3187750	10.54	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2223119	10.33	ppbv	99
3) Chlorodifluoromethane	3.06	51	2104215	10.54	ppbv	96
4) Chloromethane	3.23	50	1258088	11.80	ppbv	96
5) Vinyl Chloride	3.35	62	1213012	11.26	ppbv	97
6) Bromomethane	3.58	94	658114	10.73	ppbv	97
7) Chloroethane	3.66	64	421705	11.07	ppbv	98
8) Dichlorotetrafluoroethane	3.28	85	2510786	10.45	ppbv	90
9) Propene	3.09	41	1000826	10.75	ppbv	98
10) Heptane	8.34	43	3176439	11.70	ppbv	99
11) Trichlorofluoromethane	4.07	101	2348961	10.09	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1427744	9.21	ppbv	90
13) Ethanol	3.71	45	238010	8.43	ppbv	98
14) Bromoethene	3.85	108	709693	9.62	ppbv	99
15) Acetone	3.96	43	1779139	9.31	ppbv	99
16) 1,3-Butadiene	3.42	39	1120703	12.29	ppbv	86
17) tert-Butyl alcohol	4.42	59	1535307	12.61	ppbv	99
18) 1,1-Dichloroethene	4.42	96	695539	9.37	ppbv	94
19) Isopropyl Alcohol	4.09	45	1446329	9.11	ppbv #	42
20) Methylene Chloride	4.48	84	614360	8.80	ppbv	98
21) Allyl Chloride	4.55	41	1212965	9.29	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	726063	9.36	ppbv	98
23) Vinyl Acetate	5.23	43	3488718	10.06	ppbv	98
24) 1,1-Dichloroethane	5.17	63	2354738	10.60	ppbv	98
25) Ethyl Acetate	5.85	43	3888402	9.83	ppbv	100
26) Hexane	5.86	57	1792422	9.84	ppbv	97
27) Carbon Disulfide	4.69	76	1750226	9.67	ppbv	100
28) Methyl tert-Butyl Ether	5.19	73	3073132	9.55	ppbv	99
29) Chloroform	5.93	83	2741352	10.34	ppbv	100
30) Cyclohexane	7.34	84	1812436	10.56	ppbv	95
31) cis-1,2-Dichloroethene	5.72	61	1916653	10.53	ppbv	90
32) 1,1,1-Trichloroethane	6.71	97	3027169	10.89	ppbv	97
34) 2-Butanone	5.41	43	2742045	10.45	ppbv	98
35) Carbon Tetrachloride	7.22	117	3025168	10.69	ppbv	99
36) Benzene	7.10	78	4411135	11.02	ppbv	98
37) 1,2-Dichloroethane	6.50	62	2387071	11.97	ppbv #	96
38) Trichloroethene	8.05	130	1425209	9.12	ppbv	94
39) 1,2-Dichloropropane	7.83	63	1757731	11.14	ppbv	98
40) 1,4-Dioxane	8.04	88	550956	8.90	ppbv #	1
41) Tetrahydrofuran	6.23	42	1683658	10.70	ppbv	99
42) Bromodichloromethane	8.01	83	3382477	10.82	ppbv	98
43) Methyl Methacrylate	8.22	69	1934470	11.66	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	7805791	11.15	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	2380898	11.58	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	2643807	10.77	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1747946	10.65	ppbv	96
48) Dibromochloromethane	10.55	129	2810601	11.07	ppbv	100
49) Bromoform	13.31	173	2126126	10.00	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	4512924	10.50	ppbv	99
51) 2-Hexanone	10.36	43	3812207	10.70	ppbv #	99
52) Tetrachloroethene	11.47	164	1337745	9.19	ppbv	96
53) Toluene	10.04	91	5111341	10.57	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2713435	11.00	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.38	131	1945995	11.01	ppbv #	61
57) Chlorobenzene	12.40	112	3623786	10.57	ppbv	95
58) Ethyl Benzene	12.96	91	6941787	10.88	ppbv	96
59) m/p-Xylene	13.25	91	11268953m	22.04	ppbv	
60) o-Xylene	13.95	91	5344569	10.48	ppbv	95
61) Styrene	13.78	104	4388103	10.50	ppbv	93
62) Isopropylbenzene	14.93	105	7431719	9.48	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	3738749	9.47	ppbv	100
64) n-propylbenzene	15.82	120	1902857	9.38	ppbv	85
65) tert-Butylbenzene	17.01	119	5896891	8.56	ppbv	92
66) Benzyl Chloride	17.26	91	3337516	7.84	ppbv	93
67) sec-Butylbenzene	17.56	105	8852657	8.78	ppbv	98
69) p-Isopropyltoluene	17.91	119	7009812	8.66	ppbv	96
70) n-Butylbenzene	18.81	91	7734912	9.15	ppbv	98
71) 2-Chlorotoluene	15.72	91	5869299	9.72	ppbv	94
72) 4-Ethyltoluene	16.10	105	6139157	9.32	ppbv	97
73) 1,3,5-Trimethylbenzene	16.25	105	5803946	9.36	ppbv	94
74) 1,2,4-Trimethylbenzene	17.03	105	5540433	8.85	ppbv	94
75) 1,3-Dichlorobenzene	17.27	146	2934874	8.24	ppbv	96
76) 1,4-Dichlorobenzene	17.41	146	3009484	8.33	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2878700	8.09	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1591003	12.84	ppbv	99
79) Naphthalene	22.53	128	4410749	7.75	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2262161	11.01	ppbv	96
81) 1,2,4-Trichlorobenzene	22.25	180	2068519	8.05	ppbv	100

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

