

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
 Data File : VL032004.D
 Acq On : 16 May 2018 15:00
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/17/2018 3:34:11 PM

Quant Time: May 17 09:11:11 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 0
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1247355	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2627261	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.38	117	2738241m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.71	95	2055817	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.15	85	1305959	7.92	ppbv	99
3) Chlorodifluoromethane	3.09	51	1138055	9.70	ppbv	99
4) Chloromethane	3.25	50	592170	9.58	ppbv	100
5) Vinyl Chloride	3.37	62	628152	9.00	ppbv	100
6) Bromomethane	3.60	94	449781	9.90	ppbv	100
7) Chloroethane	3.69	64	262347	9.88	ppbv	93
8) Dichlorotetrafluoroethane	3.30	85	1581836	9.64	ppbv	97
9) Propene	3.11	41	423389	9.84	ppbv	99
10) Heptane	8.37	43	1492112	10.09	ppbv	99
11) Trichlorofluoromethane	4.10	101	2196515	11.04	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1415310	10.10	ppbv	97
13) Ethanol	3.73	45	132292	8.24	ppbv #	100
14) Bromoethene	3.88	108	510171	9.85	ppbv	98
15) Acetone	3.99	43	1323458	7.51	ppbv	99
16) 1,3-Butadiene	3.44	39	571639	10.09	ppbv	94
17) tert-Butyl alcohol	4.45	59	768256	10.53	ppbv	99
18) 1,1-Dichloroethene	4.45	96	636244	10.36	ppbv	96
19) Isopropyl Alcohol	4.12	45	1009459	10.59	ppbv	100
20) Methylene Chloride	4.51	84	610239	10.26	ppbv	96
21) Allyl Chloride	4.58	41	1026356	10.21	ppbv	99
22) trans-1,2-Dichloroethene	5.07	96	657864	9.65	ppbv	98
23) Vinyl Acetate	5.26	43	1967439	9.76	ppbv	99
24) 1,1-Dichloroethane	5.20	63	1771225	9.42	ppbv	100
25) Ethyl Acetate	5.88	43	2819236	9.31	ppbv	100
26) Hexane	5.89	57	1331358	9.36	ppbv	99
27) Carbon Disulfide	4.72	76	1791928	11.24	ppbv	99
28) Methyl tert-Butyl Ether	5.22	73	1708647	9.76	ppbv	99
29) Chloroform	5.96	83	2118341	9.41	ppbv	98
30) Cyclohexane	7.37	84	939816	9.91	ppbv	98
31) cis-1,2-Dichloroethene	5.76	61	1253879	9.63	ppbv	97
32) 1,1,1-Trichloroethane	6.74	97	1785387	8.60	ppbv	99
34) 2-Butanone	5.44	43	1806888	8.34	ppbv	100
35) Carbon Tetrachloride	7.26	117	1924844	9.24	ppbv	97
36) Benzene	7.13	78	2160268	8.73	ppbv	98
37) 1,2-Dichloroethane	6.53	62	1519626	8.54	ppbv	99
38) Trichloroethene	8.09	130	925701	9.85	ppbv	97
39) 1,2-Dichloropropane	7.86	63	816439	9.48	ppbv	96
40) 1,4-Dioxane	8.08	88	369996	9.53	ppbv	99
41) Tetrahydrofuran	6.26	42	806476	8.54	ppbv	99
42) Bromodichloromethane	8.04	83	1927865	9.72	ppbv	99
43) Methyl Methacrylate	8.26	69	838059	10.05	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.12	57	3767164	9.44	ppbv	100
45) t-1,3-Dichloropropene	9.55	75	1234419	11.17	ppbv	99
46) cis-1,3-Dichloropropene	8.97	75	1497805	10.97	ppbv	99
47) 1,1,2-Trichloroethane	9.75	97	958263	9.40	ppbv	99
48) Dibromochloromethane	10.59	129	1651696	10.10	ppbv	99
49) Bromoform	13.34	173	1263026	9.96	ppbv	100
50) 4-Methyl-2-Pentanone	9.00	43	2018465	9.86	ppbv	99
51) 2-Hexanone	10.40	43	1939012	10.40	ppbv #	100
52) Tetrachloroethene	11.51	164	865231	9.44	ppbv	99
53) Toluene	10.08	91	2727100	10.22	ppbv	100
54) 1,2-Dibromoethane	10.90	107	1465074	9.65	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.41	131	1126448	9.03	ppbv #	60
57) Chlorobenzene	12.44	112	2093141	8.86	ppbv	100
58) Ethyl Benzene	13.00	91	3739340	9.53	ppbv	99
59) m/p-Xylene	13.29	91	6203596m	18.65	ppbv	
60) o-Xylene	13.99	91	3147708	9.43	ppbv	100
61) Styrene	13.82	104	736933	10.89	ppbv	99
62) Isopropylbenzene	14.96	105	3860235	9.05	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.97	83	2018317	8.51	ppbv	99
64) n-propylbenzene	15.86	120	982943	9.19	ppbv	99
65) tert-Butylbenzene	17.04	119	3365712	8.84	ppbv	99
66) Benzyl Chloride	17.30	91	346921	10.03	ppbv	99
67) sec-Butylbenzene	17.59	105	4764044	9.02	ppbv	100
69) p-Isopropyltoluene	17.95	119	3934605	9.26	ppbv	99
70) n-Butylbenzene	18.85	91	4113385	9.36	ppbv	99
71) 2-Chlorotoluene	15.75	91	2923721	9.36	ppbv	100
72) 4-Ethyltoluene	16.14	105	3244398	9.57	ppbv	99
73) 1,3,5-Trimethylbenzene	16.29	105	2898002	9.25	ppbv	99
74) 1,2,4-Trimethylbenzene	17.06	105	3113192	8.98	ppbv	94
75) 1,3-Dichlorobenzene	17.30	146	1946991	9.10	ppbv	99
76) 1,4-Dichlorobenzene	17.44	146	1961077	9.26	ppbv	100
77) 1,2-Dichlorobenzene	18.12	146	1917058	8.90	ppbv	100
78) Hexachloro-1,3-Butadiene	23.67	225	987409	10.09	ppbv	100
79) Naphthalene	22.57	128	3451282	14.30	ppbv	98
80) Naphthalene, 2-methyl-	25.22	142	1561733	27.13	ppbv	99
81) 1,2,4-Trichlorobenzene	22.30	180	1709433	12.77	ppbv	100

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

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