

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031422.D
 Acq On : 22 Jan 2018 18:33
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVV012218

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:16 PM

Quant Time: Jan 23 06:31:39 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1278163	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3000340	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3328154m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2558232	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.18	85	2301485	12.73	ppbv	99
3) Chlorodifluoromethane	3.11	51	1287642	7.62	ppbv	99
4) Chloromethane	3.27	50	676901	8.97	ppbv	100
5) Vinyl Chloride	3.40	62	683803	9.43	ppbv	99
6) Bromomethane	3.63	94	479452	9.01	ppbv	99
7) Chloroethane	3.71	64	274843	8.87	ppbv	96
8) Dichlorotetrafluoroethane	3.32	85	1803952	8.95	ppbv	99
9) Propene	3.14	41	557972	9.42	ppbv	99
10) Heptane	8.41	43	1701156	9.23	ppbv	99
11) Trichlorofluoromethane	4.13	101	2126331	8.72	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1357771	8.88	ppbv	100
13) Ethanol	3.77	45	137645	7.73	ppbv	98
14) Bromoethene	3.90	108	564320	9.23	ppbv	100
15) Acetone	4.02	43	1375410	8.08	ppbv	99
16) 1,3-Butadiene	3.47	39	626067	8.76	ppbv	100
17) tert-Butyl alcohol	4.48	59	555795	6.71	ppbv	99
18) 1,1-Dichloroethene	4.48	96	594950	9.03	ppbv	98
19) Isopropyl Alcohol	4.14	45	859024	8.09	ppbv #	99
20) Methylene Chloride	4.54	84	554629	8.40	ppbv	96
21) Allyl Chloride	4.61	41	964849	9.44	ppbv	100
22) trans-1,2-Dichloroethene	5.10	96	639577	9.25	ppbv	99
23) Vinyl Acetate	5.29	43	1895946	9.21	ppbv	99
24) 1,1-Dichloroethane	5.23	63	1612644	8.98	ppbv	99
25) Ethyl Acetate	5.91	43	2679953	8.84	ppbv	100
26) Hexane	5.93	57	1199199	8.89	ppbv	99
27) Carbon Disulfide	4.75	76	1710866	9.65	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	1498749	9.36	ppbv	100
29) Chloroform	6.00	83	2009023	8.63	ppbv	99
30) Cyclohexane	7.40	84	992035	9.62	ppbv	99
31) cis-1,2-Dichloroethene	5.78	61	1203012	9.43	ppbv	98
32) 1,1,1-Trichloroethane	6.77	97	2119937	9.35	ppbv	99
34) 2-Butanone	5.47	43	1758180	9.26	ppbv	100
35) Carbon Tetrachloride	7.29	117	2272273	9.35	ppbv	99
36) Benzene	7.16	78	2396116	8.98	ppbv	98
37) 1,2-Dichloroethane	6.57	62	1818175	8.78	ppbv	99
38) Trichloroethene	8.13	130	1031386	9.94	ppbv	98
39) 1,2-Dichloropropane	7.90	63	914182	9.13	ppbv	98
40) 1,4-Dioxane	8.12	88	361116	8.82	ppbv	72
41) Tetrahydrofuran	6.30	42	925591	8.83	ppbv	99
42) Bromodichloromethane	8.08	83	2291723	9.23	ppbv	99
43) Methyl Methacrylate	8.30	69	968407	9.93	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	4160392	9.14	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	1509138	10.79	ppbv	98
46) cis-1,3-Dichloropropene	9.00	75	1749056	10.19	ppbv	98
47) 1,1,2-Trichloroethane	9.78	97	1090491	9.25	ppbv	98
48) Dibromochloromethane	10.62	129	1975240	9.42	ppbv	99
49) Bromoform	13.38	173	1541260	9.66	ppbv	99
50) 4-Methyl-2-Pentanone	9.03	43	2423667	9.48	ppbv	99
51) 2-Hexanone	10.44	43	2276999	9.34	ppbv #	99
52) Tetrachloroethene	11.54	164	971110	9.69	ppbv	98
53) Toluene	10.12	91	3049041	9.68	ppbv	99
54) 1,2-Dibromoethane	10.93	107	1729974	9.45	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.45	131	1363559	8.63	ppbv #	62
57) Chlorobenzene	12.48	112	2467809	8.57	ppbv	99
58) Ethyl Benzene	13.03	91	4434837	9.09	ppbv	100
59) m/p-Xylene	13.32	91	7220495m	17.30	ppbv	
60) o-Xylene	14.02	91	3691986	8.84	ppbv	99
61) Styrene	13.85	104	880941	9.71	ppbv	98
62) Isopropylbenzene	15.00	105	4557459	8.70	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	2436765	8.48	ppbv	99
64) n-propylbenzene	15.89	120	1150349	8.85	ppbv	100
65) tert-Butylbenzene	17.08	119	3999556	8.65	ppbv	100
66) Benzyl Chloride	17.33	91	547998	11.87	ppbv	100
67) sec-Butylbenzene	17.63	105	5632684	8.72	ppbv	100
69) p-Isopropyltoluene	17.98	119	4607474	8.88	ppbv	100
70) n-Butylbenzene	18.88	91	4747130	8.80	ppbv	100
71) 2-Chlorotoluene	15.79	91	3490467	8.83	ppbv	100
72) 4-Ethyltoluene	16.17	105	3742746	8.87	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	3362996	8.76	ppbv	100
74) 1,2,4-Trimethylbenzene	17.10	105	3608844	8.49	ppbv	97
75) 1,3-Dichlorobenzene	17.34	146	2253519	8.53	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	2265637	8.76	ppbv	100
77) 1,2-Dichlorobenzene	18.16	146	2192387	8.57	ppbv	100
78) Hexachloro-1,3-Butadiene	23.70	225	579807	6.44	ppbv	100
79) Naphthalene	22.61	128	2377268	9.08	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	558779	7.65	ppbv	100
81) 1,2,4-Trichlorobenzene	22.34	180	1119643	8.00	ppbv	100

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

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