

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031882.D
 Acq On : 19 Apr 2018 17:53
 Operator : SY/AP
 Sample : VL0419ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0419ABS01

Manual Integrations
 APPROVED

sam
 4/23/2018 12:49:52 PM

Quant Time: Apr 20 08:17:06 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1229561	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2899560	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	3014132m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2373804	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1906748	7.52	ppbv	99
3) Chlorodifluoromethane	3.10	51	1069017	7.48	ppbv	99
4) Chloromethane	3.26	50	644937	8.83	ppbv	97
5) Vinyl Chloride	3.38	62	697847	8.49	ppbv	96
6) Bromomethane	3.61	94	472027	8.74	ppbv	98
7) Chloroethane	3.70	64	284072	8.67	ppbv	90
8) Dichlorotetrafluoroethane	3.31	85	1790378	8.60	ppbv	99
9) Propene	3.12	41	462175	9.35	ppbv	97
10) Heptane	8.39	43	1638716	10.21	ppbv	99
11) Trichlorofluoromethane	4.11	101	2134084	8.58	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1333795	8.25	ppbv	99
13) Ethanol	3.75	45	132914m	7.92	ppbv	
14) Bromoethene	3.89	108	558353	9.16	ppbv	99
15) Acetone	4.01	43	1404069	7.42	ppbv	99
16) 1,3-Butadiene	3.46	39	619190	8.84	ppbv	90
17) tert-Butyl alcohol	4.47	59	584211	7.47	ppbv	99
18) 1,1-Dichloroethene	4.46	96	614505	8.85	ppbv	96
19) Isopropyl Alcohol	4.13	45	889907	8.42	ppbv	100
20) Methylene Chloride	4.52	84	561105	8.14	ppbv	95
21) Allyl Chloride	4.59	41	954548	8.83	ppbv	99
22) trans-1,2-Dichloroethene	5.08	96	622130	8.65	ppbv	94
23) Vinyl Acetate	5.27	43	1751419	9.13	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1646867	8.61	ppbv	98
25) Ethyl Acetate	5.90	43	2650442	8.98	ppbv	100
26) Hexane	5.90	57	1254590	9.12	ppbv	99
27) Carbon Disulfide	4.74	76	1631666	9.13	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1566516	9.25	ppbv	100
29) Chloroform	5.97	83	2033915	8.72	ppbv	98
30) Cyclohexane	7.39	84	982072	9.99	ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1173763	9.42	ppbv	94
32) 1,1,1-Trichloroethane	6.75	97	2024550	8.91	ppbv	99
34) 2-Butanone	5.45	43	1652534	8.22	ppbv	99
35) Carbon Tetrachloride	7.27	117	2120148	8.42	ppbv	99
36) Benzene	7.14	78	2420201	9.28	ppbv	99
37) 1,2-Dichloroethane	6.55	62	1640643	8.45	ppbv	99
38) Trichloroethene	8.11	130	970713	9.17	ppbv	100
39) 1,2-Dichloropropane	7.88	63	873223	9.01	ppbv	97
40) 1,4-Dioxane	8.10	88	359164	9.13	ppbv	84
41) Tetrahydrofuran	6.28	42	857474	9.21	ppbv	99
42) Bromodichloromethane	8.06	83	2109220	9.08	ppbv	99
43) Methyl Methacrylate	8.28	69	915163	9.97	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4173385	9.29	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1273909	10.70	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1554868	10.22	ppbv	96
47) 1,1,2-Trichloroethane	9.76	97	1037296	9.00	ppbv	99
48) Dibromochloromethane	10.60	129	1764679	9.48	ppbv	100
49) Bromoform	13.36	173	1395250	9.73	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	2122618	9.22	ppbv	100
51) 2-Hexanone	10.42	43	1900560	9.44	ppbv #	99
52) Tetrachloroethene	11.52	164	927148	9.12	ppbv	96
53) Toluene	10.10	91	2884920	9.92	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1550957	9.27	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	1224833	8.64	ppbv	99
57) Chlorobenzene	12.45	112	2210254	8.65	ppbv	98
58) Ethyl Benzene	13.02	91	4046819	9.67	ppbv	99
59) m/p-Xylene	13.30	91	6636661m	18.26	ppbv	
60) o-Xylene	14.00	91	3421335	9.42	ppbv	100
61) Styrene	13.84	104	744009	10.76	ppbv	100
62) Isopropylbenzene	14.98	105	4259841	9.13	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2251679	8.06	ppbv	99
64) n-propylbenzene	15.87	120	1057883	9.33	ppbv	99
65) tert-Butylbenzene	17.06	119	3678803	9.17	ppbv	99
66) Benzyl Chloride	17.30	91	419261	11.59	ppbv	97
67) sec-Butylbenzene	17.61	105	5262843	9.10	ppbv	100
69) p-Isopropyltoluene	17.97	119	4147411	9.25	ppbv	100
70) n-Butylbenzene	18.86	91	4224779	9.05	ppbv	100
71) 2-Chlorotoluene	15.77	91	3190151	9.46	ppbv	100
72) 4-Ethyltoluene	16.15	105	3442986	9.27	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3116045	9.17	ppbv	98
74) 1,2,4-Trimethylbenzene	17.08	105	3311868	8.73	ppbv	99
75) 1,3-Dichlorobenzene	17.32	146	1989399	8.55	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	1992509	8.83	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	1985258	8.67	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	627519	7.13	ppbv	100
79) Naphthalene	22.59	128	2022501	9.47	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	279908	6.71	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1020869	8.62	ppbv	99

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

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