

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031893.D
 Acq On : 20 Apr 2018 00:52
 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 12:50:44 PM

Quant Time: Apr 20 08:25:30 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 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	1197914	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2721274	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2785345m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2312370	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	2075042	8.40	ppbv	98
3) Chlorodifluoromethane	3.10	51	1041127	7.47	ppbv	99
4) Chloromethane	3.26	50	606059	8.52	ppbv	100
5) Vinyl Chloride	3.39	62	665762	8.31	ppbv	96
6) Bromomethane	3.61	94	447893	8.51	ppbv	100
7) Chloroethane	3.70	64	266499	8.35	ppbv	99
8) Dichlorotetrafluoroethane	3.31	85	1731413	8.53	ppbv	98
9) Propene	3.12	41	442757	9.19	ppbv	100
10) Heptane	8.39	43	1556425	9.96	ppbv	100
11) Trichlorofluoromethane	4.11	101	2096057	8.65	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1297229	8.24	ppbv	100
13) Ethanol	3.75	45	121138	7.41	ppbv	96
14) Bromoethene	3.89	108	525696	8.86	ppbv	98
15) Acetone	4.01	43	1353055	7.34	ppbv	99
16) 1,3-Butadiene	3.46	39	626504	9.18	ppbv	97
17) tert-Butyl alcohol	4.47	59	527448	6.92	ppbv	99
18) 1,1-Dichloroethene	4.46	96	569093	8.42	ppbv	99
19) Isopropyl Alcohol	4.13	45	826301	8.02	ppbv	100
20) Methylene Chloride	4.52	84	545872	8.13	ppbv	93
21) Allyl Chloride	4.59	41	899998	8.54	ppbv	99
22) trans-1,2-Dichloroethene	5.08	96	614068	8.76	ppbv	95
23) Vinyl Acetate	5.28	43	1652773	8.84	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1581852	8.49	ppbv	100
25) Ethyl Acetate	5.89	43	2584655	8.99	ppbv	99
26) Hexane	5.91	57	1234252	9.21	ppbv	98
27) Carbon Disulfide	4.74	76	1611800	9.26	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1473978	8.93	ppbv	100
29) Chloroform	5.98	83	1985019	8.73	ppbv	99
30) Cyclohexane	7.39	84	956819	9.99	ppbv	100
31) cis-1,2-Dichloroethene	5.77	61	1121376	9.23	ppbv	95
32) 1,1,1-Trichloroethane	6.76	97	1955694	8.84	ppbv	99
34) 2-Butanone	5.45	43	1578242	8.36	ppbv	99
35) Carbon Tetrachloride	7.27	117	2048457	8.67	ppbv	99
36) Benzene	7.14	78	2293642	9.37	ppbv	99
37) 1,2-Dichloroethane	6.55	62	1608362	8.83	ppbv	100
38) Trichloroethene	8.10	130	931863	9.38	ppbv	98
39) 1,2-Dichloropropane	7.88	63	835480	9.18	ppbv	96
40) 1,4-Dioxane	8.09	88	337240	9.13	ppbv	78
41) Tetrahydrofuran	6.28	42	816503	9.34	ppbv	97
42) Bromodichloromethane	8.06	83	2040606	9.36	ppbv	100
43) Methyl Methacrylate	8.27	69	862530	10.01	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4032121	9.56	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1211749	10.85	ppbv	100
46) cis-1,3-Dichloropropene	8.98	75	1500157	10.51	ppbv	97
47) 1,1,2-Trichloroethane	9.76	97	997561	9.22	ppbv	95
48) Dibromochloromethane	10.60	129	1718542	9.83	ppbv	100
49) Bromoform	13.36	173	1382799	10.28	ppbv	100
50) 4-Methyl-2-Pentanone	9.01	43	2058659	9.53	ppbv	100
51) 2-Hexanone	10.42	43	1837855	9.73	ppbv	99
52) Tetrachloroethene	11.52	164	872714	9.15	ppbv	97
53) Toluene	10.09	91	2768503	10.14	ppbv	99
54) 1,2-Dibromoethane	10.91	107	1509583	9.62	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	1205261	9.20	ppbv	100
57) Chlorobenzene	12.45	112	2158917	9.14	ppbv	99
58) Ethyl Benzene	13.01	91	3960092	10.24	ppbv	99
59) m/p-Xylene	13.30	91	6582753m	19.60	ppbv	
60) o-Xylene	14.00	91	3363359	10.02	ppbv	100
61) Styrene	13.84	104	722793	11.31	ppbv	100
62) Isopropylbenzene	14.97	105	4219557	9.79	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.98	83	2265683	8.78	ppbv	99
64) n-propylbenzene	15.87	120	1041343	9.93	ppbv	100
65) tert-Butylbenzene	17.06	119	3639587	9.81	ppbv	100
66) Benzyl Chloride	17.30	91	428125m	12.81	ppbv	
67) sec-Butylbenzene	17.61	105	5177619	9.69	ppbv	100
69) p-Isopropyltoluene	17.96	119	4108015	9.92	ppbv	99
70) n-Butylbenzene	18.86	91	4167380	9.66	ppbv	100
71) 2-Chlorotoluene	15.77	91	3125315	10.02	ppbv	100
72) 4-Ethyltoluene	16.15	105	3375930	9.84	ppbv	99
73) 1,3,5-Trimethylbenzene	16.30	105	3082576	9.81	ppbv	98
74) 1,2,4-Trimethylbenzene	17.08	105	3254598	9.28	ppbv	93
75) 1,3-Dichlorobenzene	17.31	146	1951956	9.08	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	1961543	9.40	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1951525	9.22	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	966372	11.89	ppbv	98
79) Naphthalene	22.59	128	1961663	9.94	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	265910	6.90	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	976699	8.92	ppbv	99

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

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