

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032584.D
 Acq On : 3 Oct 2018 18:06
 Operator : SY/AP
 Sample : VL1003ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1003ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/4/2018 7:07:05 PM

Quant Time: Oct 04 09:46:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1253450	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3061405	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	3512355	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2374297	8.96	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1100236	9.490	ppbv	99
3) Chlorodifluoromethane	3.03	51	1015285	9.740	ppbv	97
4) Chloromethane	3.19	50	568227	9.349	ppbv	96
5) Vinyl Chloride	3.31	62	588400	9.581	ppbv	97
6) Bromomethane	3.53	94	367199	10.933	ppbv	97
7) Chloroethane	3.62	64	227768	10.408	ppbv	98
8) Dichlorotetrafluoroethane	3.24	85	1314297	10.376	ppbv	99
9) Propene	3.05	41	411606	9.101	ppbv	99
10) Heptane	8.28	43	1805161	10.882	ppbv	97
11) Trichlorofluoromethane	4.02	101	1500741	10.889	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1068720	9.487	ppbv	99
13) Ethanol	3.67	45	115538	8.499	ppbv	96
14) Bromoethene	3.81	108	437852	10.953	ppbv	99
15) Acetone	3.92	43	1065125	9.681	ppbv	100
16) 1,3-Butadiene	3.38	39	496980	11.138	ppbv	95
17) tert-Butyl alcohol	4.38	59	135683	9.814	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	500809	9.492	ppbv	96
19) Isopropyl Alcohol	4.04	45	802106	10.466	ppbv	100
20) Methylene Chloride	4.43	84	440258	8.263	ppbv	95
21) Allyl Chloride	4.50	41	852331	9.479	ppbv	98
22) trans-1,2-Dichloroethene	4.98	96	597878	12.024	ppbv	98
23) Vinyl Acetate	5.18	43	1853926	9.536	ppbv	98
24) 1,1-Dichloroethane	5.12	63	1483157	9.161	ppbv	99
25) Ethyl Acetate	5.80	43	2637940	9.881	ppbv	100
26) Hexane	5.80	57	1204002	9.984	ppbv	98
27) Carbon Disulfide	4.64	76	1339581	10.333	ppbv	99
28) Methyl tert-Butyl Ether	5.14	73	1540324	10.254	ppbv	97
29) Chloroform	5.88	83	1912597	10.336	ppbv	100
30) Cyclohexane	7.28	84	1151174	11.724	ppbv	94
31) cis-1,2-Dichloroethene	5.67	61	1259408	10.966	ppbv	99
32) 1,1,1-Trichloroethane	6.65	97	2108924	10.695	ppbv	98
34) 2-Butanone	5.35	43	1787053	9.802	ppbv	99
35) Carbon Tetrachloride	7.16	117	2158399	10.146	ppbv	98
36) Benzene	7.04	78	2770859	11.200	ppbv	99
37) 1,2-Dichloroethane	6.44	62	1660493	11.137	ppbv	98
38) Trichloroethene	7.99	130	1047754	11.064	ppbv	99
39) 1,2-Dichloropropane	7.77	63	1125539	10.095	ppbv	98
40) 1,4-Dioxane	7.99	88	364636	10.666	ppbv #	1
41) Tetrahydrofuran	6.17	42	1076991	10.874	ppbv	95
42) Bromodichloromethane	7.95	83	2378189	10.646	ppbv	99
43) Methyl Methacrylate	8.17	69	1159783	11.222	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	4949685	10.237	ppbv	99
45) t-1,3-Dichloropropene	9.44	75	1567554	12.193	ppbv	96
46) cis-1,3-Dichloropropene	8.87	75	1759444	11.668	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	1268398	10.243	ppbv	98
48) Dibromochloromethane	10.48	129	2131054	10.945	ppbv	99
49) Bromoform	13.24	173	1660718	11.162	ppbv	100
50) 4-Methyl-2-Pentanone	8.90	43	2923836	10.203	ppbv	99
51) 2-Hexanone	10.30	43	2534132	10.693	ppbv	99
52) Tetrachloroethene	11.41	164	907248	10.532	ppbv	98
53) Toluene	9.98	91	3497086	11.599	ppbv	100
54) 1,2-Dibromoethane	10.79	107	1905407	10.818	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.32	131	1535185	9.724	ppbv #	59
57) Chlorobenzene	12.34	112	2628752	9.291	ppbv	99
58) Ethyl Benzene	12.90	91	4353227	10.218	ppbv	97
59) m/p-Xylene	13.18	91	7272799m	19.186	ppbv	
60) o-Xylene	13.88	91	3576125	9.690	ppbv	100
61) Styrene	13.72	104	2570821	10.648	ppbv	99
62) Isopropylbenzene	14.86	105	5038260	9.653	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	2707711	8.258	ppbv	99
64) n-propylbenzene	15.76	120	1298590	9.685	ppbv	96
65) tert-Butylbenzene	16.94	119	4228450	9.452	ppbv	98
66) Benzyl Chloride	17.19	91	2559180	9.926	ppbv	100
67) sec-Butylbenzene	17.49	105	6249775	9.396	ppbv	99
69) p-Isopropyltoluene	17.85	119	4992549	9.718	ppbv	99
70) n-Butylbenzene	18.75	91	5450933	9.714	ppbv	99
71) 2-Chlorotoluene	15.65	91	3928628	9.883	ppbv	100
72) 4-Ethyltoluene	16.03	105	4068780	10.157	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	3910565	10.045	ppbv	96
74) 1,2,4-Trimethylbenzene	16.96	105	3965657	9.461	ppbv	98
75) 1,3-Dichlorobenzene	17.20	146	2202733	8.516	ppbv	100
76) 1,4-Dichlorobenzene	17.34	146	2185410	9.228	ppbv	100
77) 1,2-Dichlorobenzene	18.02	146	2194631	9.022	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	351096	3.846	ppbv #	18
79) Naphthalene	22.45	128	3291173	10.886	ppbv	99
80) Naphthalene, 2-methyl-	25.14	142	961691	13.549	ppbv	98
81) 1,2,4-Trichlorobenzene	22.17	180	1562906	10.086	ppbv	100

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

