

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032265.D
 Acq On : 18 Jul 2018 13:14
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:09 PM

Quant Time: Jul 18 14:35:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18
 QLast Update : Wed Jul 18 09:58:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1691544	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3961722	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4399838m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3612836	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.13	85	3705539	15.22	ppbv	98
3) Chlorodifluoromethane	3.06	51	2624148	12.62	ppbv	100
4) Chloromethane	3.22	50	1618370	13.69	ppbv	99
5) Vinyl Chloride	3.34	62	1545140	13.26	ppbv	99
6) Bromomethane	3.57	94	842096	12.98	ppbv	94
7) Chloroethane	3.66	64	557303	13.89	ppbv	97
8) Dichlorotetrafluoroethane	3.27	85	3024665	11.31	ppbv	100
9) Propene	3.09	41	1294783	14.61	ppbv	100
10) Heptane	8.34	43	3842688	15.27	ppbv	98
11) Trichlorofluoromethane	4.07	101	2984569	12.81	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1958378	13.16	ppbv	99
13) Ethanol	3.71	45	295068	11.54	ppbv	100
14) Bromoethene	3.85	108	953478	13.58	ppbv	99
15) Acetone	3.96	43	2461679	12.54	ppbv	100
16) 1,3-Butadiene	3.42	39	1387648	13.99	ppbv	98
17) tert-Butyl alcohol	4.42	59	808006	8.82	ppbv	100
18) 1,1-Dichloroethene	4.42	96	988347	14.27	ppbv	99
19) Isopropyl Alcohol	4.09	45	1696804	13.16	ppbv	100
20) Methylene Chloride	4.48	84	897071	13.49	ppbv	98
21) Allyl Chloride	4.55	41	1800682	15.67	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	1030923	15.64	ppbv	97
23) Vinyl Acetate	5.23	43	5021763	15.38	ppbv	100
24) 1,1-Dichloroethane	5.17	63	3198970	13.96	ppbv	99
25) Ethyl Acetate	5.85	43	5442429	14.01	ppbv	100
26) Hexane	5.86	57	2482133	14.01	ppbv	100
27) Carbon Disulfide	4.69	76	2522212	15.91	ppbv	100
28) Methyl tert-Butyl Ether	5.19	73	3906651	14.01	ppbv	99
29) Chloroform	5.93	83	3657610	13.37	ppbv	99
30) Cyclohexane	7.34	84	2278009	14.57	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	2620497	14.82	ppbv	100
32) 1,1,1-Trichloroethane	6.71	97	3698103	13.93	ppbv	99
34) 2-Butanone	5.40	43	3933435	14.57	ppbv	100
35) Carbon Tetrachloride	7.22	117	3766173	14.05	ppbv	99
36) Benzene	7.09	78	5507423	13.99	ppbv	99
37) 1,2-Dichloroethane	6.50	62	3092340	14.35	ppbv	100
38) Trichloroethene	8.05	130	1669702	12.36	ppbv	98
39) 1,2-Dichloropropane	7.83	63	2251554	14.39	ppbv	97
40) 1,4-Dioxane	8.04	88	610167	11.37	ppbv #	11
41) Tetrahydrofuran	6.23	42	2420704	16.02	ppbv	100
42) Bromodichloromethane	8.01	83	4226046	13.77	ppbv	96
43) Methyl Methacrylate	8.22	69	2241110	14.73	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	8734464	12.90	ppbv	100
45) t-1,3-Dichloropropene	9.51	75	3521200	19.43	ppbv	98
46) cis-1,3-Dichloropropene	8.93	75	3375422	13.66	ppbv	97
47) 1,1,2-Trichloroethane	9.71	97	2115992	12.11	ppbv	97
48) Dibromochloromethane	10.55	129	3241307	12.47	ppbv	99
49) Bromoform	13.30	173	3199913	15.35	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	5664427	12.13	ppbv	100
51) 2-Hexanone	10.37	43	5757276	14.76	ppbv #	100
52) Tetrachloroethene	11.47	164	1710431	11.76	ppbv	99
53) Toluene	10.04	91	6931780	14.89	ppbv	99
54) 1,2-Dibromoethane	10.86	107	3069199	11.90	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	2546984	13.33	ppbv #	71
57) Chlorobenzene	12.40	112	4654255	12.52	ppbv	99
58) Ethyl Benzene	12.96	91	8842030	13.80	ppbv	99
59) m/p-Xylene	13.25	91	14832909m	28.14	ppbv	
60) o-Xylene	13.95	91	7096725	13.64	ppbv	99
61) Styrene	13.78	104	6036087	15.49	ppbv	100
62) Isopropylbenzene	14.92	105	10212268	14.00	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	5304142	12.53	ppbv	99
64) n-propylbenzene	15.82	120	2720732	14.73	ppbv	96
65) tert-Butylbenzene	17.01	119	8196261	13.41	ppbv	100
66) Benzyl Chloride	17.26	91	6072315	19.64	ppbv	100
67) sec-Butylbenzene	17.56	105	12359890	13.85	ppbv	99
69) p-Isopropyltoluene	17.92	119	9905700	14.25	ppbv	99
70) n-Butylbenzene	18.81	91	10847982	14.13	ppbv	99
71) 2-Chlorotoluene	15.72	91	8314969	14.49	ppbv	99
72) 4-Ethyltoluene	16.10	105	8703180	14.91	ppbv	99
73) 1,3,5-Trimethylbenzene	16.26	105	8188450	15.09	ppbv	96
74) 1,2,4-Trimethylbenzene	17.03	105	7779157	14.02	ppbv	96
75) 1,3-Dichlorobenzene	17.27	146	4315433	13.03	ppbv	100
76) 1,4-Dichlorobenzene	17.41	146	4592983	14.17	ppbv	99
77) 1,2-Dichlorobenzene	18.09	146	4447516	13.52	ppbv	100
78) Hexachloro-1,3-Butadiene	23.63	225	1328798	12.96	ppbv	100
79) Naphthalene	22.53	128	7502176	20.14	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	3806099	31.98	ppbv	99
81) 1,2,4-Trichlorobenzene	22.25	180	3478713	18.66	ppbv	99

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

