

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032310.D
 Acq On : 27 Jul 2018 1:17
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:42:57 AM

Quant Time: Jul 27 05:41:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	2126624	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	4318060	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	5353469	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	4072270	9.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	663674	1.99	ppbv	98
3) Chlorodifluoromethane	3.06	51	426324	1.80	ppbv	99
4) Chloromethane	3.22	50	260198	1.85	ppbv	97
5) Vinyl Chloride	3.34	62	239382	1.80	ppbv	100
6) Bromomethane	3.57	94	132101	1.84	ppbv	99
7) Chloroethane	3.65	64	85112	1.81	ppbv	97
8) Dichlorotetrafluoroethane	3.27	85	540462	1.85	ppbv	99
9) Propene	3.08	41	193438	1.86	ppbv	100
10) Heptane	8.33	43	718820	2.16	ppbv	99
11) Trichlorofluoromethane	4.06	101	497742	1.79	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.62	101	347907	1.93	ppbv	98
13) Ethanol	3.71	45	47597	1.59	ppbv	93
14) Bromoethene	3.85	108	151229	1.87	ppbv	98
15) Acetone	3.96	43	424782	1.94	ppbv	100
16) 1,3-Butadiene	3.41	39	229857	2.05	ppbv	89
17) tert-Butyl alcohol	4.43	59	117254	1.66	ppbv	99
18) 1,1-Dichloroethene	4.41	96	159852	1.89	ppbv	88
19) Isopropyl Alcohol	4.09	45	232516	1.54	ppbv #	95
20) Methylene Chloride	4.47	84	162660	1.89	ppbv	95
21) Allyl Chloride	4.54	41	271468	1.84	ppbv	98
22) trans-1,2-Dichloroethene	5.03	96	149943	1.73	ppbv	95
23) Vinyl Acetate	5.22	43	726893	1.83	ppbv #	97
24) 1,1-Dichloroethane	5.16	63	539281	1.88	ppbv	99
25) Ethyl Acetate	5.84	43	939620	1.95	ppbv	100
26) Hexane	5.85	57	431742	1.95	ppbv	98
27) Carbon Disulfide	4.68	76	376080	1.91	ppbv	98
28) Methyl tert-Butyl Ether	5.19	73	587009	1.81	ppbv	100
29) Chloroform	5.92	83	607601	1.87	ppbv	92
30) Cyclohexane	7.33	84	333834	1.81	ppbv	90
31) cis-1,2-Dichloroethene	5.71	61	392133	1.84	ppbv	97
32) 1,1,1-Trichloroethane	6.70	97	563148	1.72	ppbv	98
34) 2-Butanone	5.40	43	614157	2.06	ppbv	99
35) Carbon Tetrachloride	7.21	117	553933	1.88	ppbv	99
36) Benzene	7.08	78	837993	1.96	ppbv	97
37) 1,2-Dichloroethane	6.49	62	477415	1.92	ppbv	99
38) Trichloroethene	8.04	130	349044	2.42	ppbv	96
39) 1,2-Dichloropropane	7.82	63	417909	2.37	ppbv	97
40) 1,4-Dioxane	8.06	88	100008	1.93	ppbv #	17
41) Tetrahydrofuran	6.23	42	347118	2.02	ppbv	99
42) Bromodichloromethane	8.00	83	774647	2.35	ppbv	99
43) Methyl Methacrylate	8.22	69	394982	2.25	ppbv	97

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44) 2,2,4-Trimethylpentane	8.07	57	1910335	2.53	ppbv	100
45) t-1,3-Dichloropropene	9.50	75	441988	2.08	ppbv	97
46) cis-1,3-Dichloropropene	8.92	75	551598	2.09	ppbv	95
47) 1,1,2-Trichloroethane	9.70	97	408597	2.23	ppbv	99
48) Dibromochloromethane	10.54	129	600909	2.23	ppbv	99
49) Bromoform	13.29	173	504643	2.15	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	1109117	2.25	ppbv	98
51) 2-Hexanone	10.36	43	840562	2.17	ppbv #	98
52) Tetrachloroethene	11.46	164	305919	2.08	ppbv	94
53) Toluene	10.03	91	1061787	2.05	ppbv	99
54) 1,2-Dibromoethane	10.85	107	575489	2.11	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.36	131	467766	1.97	ppbv #	1
57) Chlorobenzene	12.39	112	878621	2.00	ppbv	99
58) Ethyl Benzene	12.95	91	1476884	1.99	ppbv	96
59) m/p-Xylene	13.23	91	2486499m	3.88	ppbv	
60) o-Xylene	13.94	91	1255116	1.97	ppbv	97
61) Styrene	13.77	104	913687	1.95	ppbv	99
62) Isopropylbenzene	14.91	105	1739499	1.93	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.92	83	985098	1.81	ppbv	99
64) n-propylbenzene	15.81	120	447833	1.93	ppbv	90
65) tert-Butylbenzene	16.99	119	1519283	1.97	ppbv	99
66) Benzyl Chloride	17.24	91	853204	1.98	ppbv	99
67) sec-Butylbenzene	17.54	105	2259718	1.96	ppbv	99
69) p-Isopropyltoluene	17.90	119	1774348	1.99	ppbv	100
70) n-Butylbenzene	18.80	91	2044350	2.05	ppbv	97
71) 2-Chlorotoluene	15.70	91	1373367	1.90	ppbv	99
72) 4-Ethyltoluene	16.08	105	1394533	1.92	ppbv	99
73) 1,3,5-Trimethylbenzene	16.24	105	1368240	1.93	ppbv	99
74) 1,2,4-Trimethylbenzene	17.01	105	1460104	1.96	ppbv	98
75) 1,3-Dichlorobenzene	17.25	146	818109	1.96	ppbv	99
76) 1,4-Dichlorobenzene	17.39	146	778854	1.89	ppbv	100
77) 1,2-Dichlorobenzene	18.07	146	799171	1.98	ppbv	99
78) Hexachloro-1,3-Butadiene	23.62	225	265392m	2.00	ppbv	
79) Naphthalene	22.51	128	1292962	2.04	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	511286	1.90	ppbv	99
81) 1,2,4-Trichlorobenzene	22.23	180	645661m	2.08	ppbv	

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

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