

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
 Data File : VL032019.D
 Acq On : 31 May 2018 18:01
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 10:54:56 AM

Quant Time: Jun 01 02:21:21 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:21:21 2018
 QLast Update : Fri Jun 01 01:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1332639	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2583958	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2446622	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	1914970	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	121278	0.71	ppbv	96
3) Chlorodifluoromethane	3.08	51	72019	0.58	ppbv	100
4) Chloromethane	3.24	50	33725	0.52	ppbv	93
5) Vinyl Chloride	3.37	62	37208	0.50	ppbv	98
6) Bromomethane	3.59	94	26331	0.55	ppbv	94
7) Chloroethane	3.68	64	16134	0.57	ppbv	96
8) Dichlorotetrafluoroethane	3.29	85	94760	0.54	ppbv	99
9) Propene	3.10	41	18923m	0.42	ppbv	
10) Heptane	8.36	43	62835	0.40	ppbv	94
11) Trichlorofluoromethane	4.09	101	150716	0.70	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.64	101	94217	0.61	ppbv	98
13) Ethanol	3.74	45	9591m	0.56	ppbv	
14) Bromoethene	3.87	108	30330	0.55	ppbv	95
15) Acetone	4.00	43	81774	0.44	ppbv	96
16) 1,3-Butadiene	3.44	39	31660	0.53	ppbv	97
17) tert-Butyl alcohol	4.47	59	41699m	0.54	ppbv	
18) 1,1-Dichloroethene	4.44	96	39906	0.60	ppbv	84
19) Isopropyl Alcohol	4.13	45	59642	0.58	ppbv #	92
20) Methylene Chloride	4.50	84	41726	0.65	ppbv	95
21) Allyl Chloride	4.57	41	57010	0.53	ppbv	96
22) trans-1,2-Dichloroethene	5.06	96	43792	0.59	ppbv	95
23) Vinyl Acetate	5.26	43	108551	0.50	ppbv #	97
24) 1,1-Dichloroethane	5.19	63	116766	0.57	ppbv	98
25) Ethyl Acetate	5.88	43	164387	0.51	ppbv	99
26) Hexane	5.88	57	70802	0.46	ppbv	86
27) Carbon Disulfide	4.72	76	91653	0.52	ppbv #	88
28) Methyl tert-Butyl Ether	5.23	73	83800	0.45	ppbv	98
29) Chloroform	5.95	83	136842	0.56	ppbv	96
30) Cyclohexane	7.36	84	38061m	0.38	ppbv	
31) cis-1,2-Dichloroethene	5.74	61	56822m	0.41	ppbv	
32) 1,1,1-Trichloroethane	6.73	97	102863m	0.46	ppbv	
34) 2-Butanone	5.44	43	97431m	0.46	ppbv	
35) Carbon Tetrachloride	7.25	117	109525	0.53	ppbv	93
36) Benzene	7.12	78	105066	0.43	ppbv	95
37) 1,2-Dichloroethane	6.52	62	81236	0.47	ppbv	97
38) Trichloroethene	8.08	130	40893m	0.44	ppbv	
39) 1,2-Dichloropropane	7.85	63	41027	0.48	ppbv #	86
40) 1,4-Dioxane	8.12	88	16998m	0.45	ppbv	
41) Tetrahydrofuran	6.28	42	30832m	0.33	ppbv	
42) Bromodichloromethane	8.03	83	100980	0.51	ppbv	99
43) Methyl Methacrylate	8.26	69	31169m	0.38	ppbv	

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44) 2,2,4-Trimethylpentane	8.11	57	174534	0.44	ppbv	94
45) t-1,3-Dichloropropene	9.53	75	36553m	0.33	ppbv	
46) cis-1,3-Dichloropropene	8.95	75	51865m	0.38	ppbv	
47) 1,1,2-Trichloroethane	9.74	97	50671	0.50	ppbv #	88
48) Dibromochloromethane	10.58	129	81198	0.50	ppbv	100
49) Bromoform	13.33	173	58892	0.46	ppbv	97
50) 4-Methyl-2-Pentanone	9.01	43	84028	0.42	ppbv	96
51) 2-Hexanone	10.42	43	68546m	0.37	ppbv	
52) Tetrachloroethene	11.49	164	42727m	0.47	ppbv	
53) Toluene	10.07	91	94771	0.36	ppbv	98
54) 1,2-Dibromoethane	10.88	107	68318	0.46	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.41	131	62701	0.56	ppbv #	1
57) Chlorobenzene	12.42	112	121798m	0.57	ppbv	
58) Ethyl Benzene	12.99	91	136371	0.38	ppbv	92
59) m/p-Xylene	13.28	91	270505m	0.89	ppbv	
60) o-Xylene	13.97	91	127620m	0.42	ppbv	
61) Styrene	13.81	104	19390m	0.32	ppbv	
62) Isopropylbenzene	14.95	105	175570m	0.45	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.96	83	120468	0.56	ppbv	97
64) n-propylbenzene	15.85	120	42409m	0.44	ppbv	
65) tert-Butylbenzene	17.03	119	147709	0.43	ppbv	93
66) Benzyl Chloride	17.28	91	17830m	0.56	ppbv	
67) sec-Butylbenzene	17.58	105	225308	0.47	ppbv	99
69) p-Isopropyltoluene	17.94	119	157430m	0.41	ppbv	
70) n-Butylbenzene	18.84	91	167379m	0.42	ppbv	
71) 2-Chlorotoluene	15.75	91	119474	0.42	ppbv	100
72) 4-Ethyltoluene	16.13	105	114405	0.37	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.29	105	116750	0.41	ppbv	88
74) 1,2,4-Trimethylbenzene	17.05	105	146954	0.47	ppbv	91
75) 1,3-Dichlorobenzene	17.29	146	113284	0.58	ppbv	92
76) 1,4-Dichlorobenzene	17.44	146	98431	0.51	ppbv	97
77) 1,2-Dichlorobenzene	18.11	146	104863m	0.54	ppbv	
78) Hexachloro-1,3-Butadiene	23.66	225	47227m	0.59	ppbv	
79) Naphthalene	22.56	128	49411m	0.23	ppbv	
80) Naphthalene, 2-methyl-	25.22	142	4395	0.08	ppbv #	83
81) 1,2,4-Trichlorobenzene	22.28	180	38824m	0.32	ppbv	

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

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