

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
 Data File : VL032018.D
 Acq On : 31 May 2018 17:23
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

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

Quant Time: Jun 01 02:17:14 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:17:14 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	1366534	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2536598	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2603517	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.70	95	2007228	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.15	85	175568	1.01	ppbv	99
3) Chlorodifluoromethane	3.08	51	154904	1.21	ppbv	98
4) Chloromethane	3.24	50	74506	1.12	ppbv	91
5) Vinyl Chloride	3.37	62	81488	1.08	ppbv	92
6) Bromomethane	3.59	94	55727	1.13	ppbv	90
7) Chloroethane	3.68	64	38064	1.31	ppbv	99
8) Dichlorotetrafluoroethane	3.29	85	220732	1.24	ppbv	99
9) Propene	3.11	41	42544	0.91	ppbv	98
10) Heptane	8.36	43	153877	0.95	ppbv	98
11) Trichlorofluoromethane	4.09	101	292864	1.32	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.65	101	189177	1.20	ppbv	99
13) Ethanol	3.74	45	21292m	1.22	ppbv	
14) Bromoethene	3.87	108	73467	1.30	ppbv	96
15) Acetone	3.99	43	212069	1.11	ppbv	100
16) 1,3-Butadiene	3.44	39	61547	1.00	ppbv	84
17) tert-Butyl alcohol	4.46	59	86813	1.09	ppbv #	94
18) 1,1-Dichloroethene	4.44	96	80826	1.18	ppbv	96
19) Isopropyl Alcohol	4.12	45	121127	1.14	ppbv #	94
20) Methylene Chloride	4.50	84	81936	1.24	ppbv	94
21) Allyl Chloride	4.57	41	124932	1.12	ppbv	97
22) trans-1,2-Dichloroethene	5.06	96	85862	1.12	ppbv	94
23) Vinyl Acetate	5.25	43	236675	1.07	ppbv #	95
24) 1,1-Dichloroethane	5.19	63	235295	1.12	ppbv	99
25) Ethyl Acetate	5.88	43	340166	1.02	ppbv	100
26) Hexane	5.88	57	158408	1.01	ppbv	96
27) Carbon Disulfide	4.72	76	209267	1.16	ppbv	96
28) Methyl tert-Butyl Ether	5.22	73	196543	1.02	ppbv	98
29) Chloroform	5.95	83	266441	1.07	ppbv	97
30) Cyclohexane	7.37	84	84212	0.81	ppbv	93
31) cis-1,2-Dichloroethene	5.74	61	140057	0.97	ppbv	92
32) 1,1,1-Trichloroethane	6.73	97	215019	0.95	ppbv	98
34) 2-Butanone	5.43	43	211942	1.01	ppbv	98
35) Carbon Tetrachloride	7.24	117	215680	1.06	ppbv	97
36) Benzene	7.12	78	233790	0.98	ppbv	97
37) 1,2-Dichloroethane	6.52	62	179402	1.06	ppbv	100
38) Trichloroethene	8.08	130	91749	1.01	ppbv	91
39) 1,2-Dichloropropane	7.85	63	86372m	1.04	ppbv	
40) 1,4-Dioxane	8.10	88	40649m	1.09	ppbv	
41) Tetrahydrofuran	6.27	42	74447	0.82	ppbv	97
42) Bromodichloromethane	8.03	83	216643	1.12	ppbv	99
43) Methyl Methacrylate	8.25	69	76609m	0.94	ppbv	

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44) 2,2,4-Trimethylpentane	8.11	57	419695	1.08	ppbv	98
45) t-1,3-Dichloropropene	9.54	75	97827	0.91	ppbv	94
46) cis-1,3-Dichloropropene	8.96	75	130808	0.98	ppbv #	92
47) 1,1,2-Trichloroethane	9.73	97	110801m	1.12	ppbv	
48) Dibromochloromethane	10.57	129	177181	1.11	ppbv	99
49) Bromoform	13.32	173	131959	1.05	ppbv	98
50) 4-Methyl-2-Pentanone	9.00	43	200100	1.01	ppbv	98
51) 2-Hexanone	10.40	43	175050	0.97	ppbv #	92
52) Tetrachloroethene	11.50	164	95509m	1.08	ppbv	
53) Toluene	10.07	91	251863	0.97	ppbv	98
54) 1,2-Dibromoethane	10.88	107	158260	1.08	ppbv	87
56) 1,1,1,2-Tetrachloroethane	12.40	131	133770	1.12	ppbv #	1
57) Chlorobenzene	12.43	112	255262	1.12	ppbv	91
58) Ethyl Benzene	12.99	91	368585	0.98	ppbv	97
59) m/p-Xylene	13.27	91	664749m	2.06	ppbv	
60) o-Xylene	13.97	91	326884	1.01	ppbv	100
61) Styrene	13.81	104	49954m	0.76	ppbv	
62) Isopropylbenzene	14.95	105	415829	1.01	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.96	83	256968	1.12	ppbv	98
64) n-propylbenzene	15.85	120	102917m	0.99	ppbv	
65) tert-Butylbenzene	17.03	119	379416	1.03	ppbv	100
66) Benzyl Chloride	17.28	91	36950	1.08	ppbv #	91
67) sec-Butylbenzene	17.58	105	538872	1.06	ppbv	100
69) p-Isopropyltoluene	17.94	119	402723	0.99	ppbv	97
70) n-Butylbenzene	18.84	91	418062	0.99	ppbv	98
71) 2-Chlorotoluene	15.75	91	301303	1.00	ppbv	100
72) 4-Ethyltoluene	16.12	105	313851	0.96	ppbv	99
73) 1,3,5-Trimethylbenzene	16.29	105	289336	0.96	ppbv	97
74) 1,2,4-Trimethylbenzene	17.05	105	343471m	1.02	ppbv	
75) 1,3-Dichlorobenzene	17.29	146	249795m	1.20	ppbv	
76) 1,4-Dichlorobenzene	17.43	146	228819m	1.11	ppbv	
77) 1,2-Dichlorobenzene	18.11	146	223157	1.07	ppbv	99
78) Hexachloro-1,3-Butadiene	23.66	225	98273	1.16	ppbv	97
79) Naphthalene	22.56	128	141597m	0.61	ppbv	
80) Naphthalene, 2-methyl-	25.21	142	11050	0.18	ppbv #	92
81) 1,2,4-Trichlorobenzene	22.29	180	96355m	0.76	ppbv	

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

