

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031963.D
 Acq On : 3 May 2018 13:22
 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
 5/4/2018 5:00:58 PM

Quant Time: May 03 14:14:17 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1270328	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2606501	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.39	117	2484455	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1986094	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.16	85	88569	0.34	ppbv	92
3) Chlorodifluoromethane	3.10	51	67178	0.45	ppbv	95
4) Chloromethane	3.25	50	33240	0.44	ppbv #	78
5) Vinyl Chloride	3.38	62	35457	0.42	ppbv	92
6) Bromomethane	3.61	94	26773	0.48	ppbv	85
7) Chloroethane	3.70	64	14649m	0.43	ppbv	
8) Dichlorotetrafluoroethane	3.31	85	94647	0.44	ppbv	99
9) Propene	3.12	41	20086	0.39	ppbv	92
10) Heptane	8.38	43	75137	0.45	ppbv	99
11) Trichlorofluoromethane	4.11	101	123535	0.48	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.66	101	79098	0.47	ppbv	100
13) Ethanol	3.76	45	10920m	0.63	ppbv	
14) Bromoethene	3.89	108	28530	0.45	ppbv	96
15) Acetone	4.01	43	119810	0.61	ppbv	94
16) 1,3-Butadiene	3.45	39	28465	0.39	ppbv #	79
17) tert-Butyl alcohol	4.49	59	42858	0.53	ppbv #	94
18) 1,1-Dichloroethene	4.46	96	35308	0.49	ppbv	96
19) Isopropyl Alcohol	4.14	45	57441m	0.53	ppbv	
20) Methylene Chloride	4.52	84	33601	0.47	ppbv	94
21) Allyl Chloride	4.58	41	54946	0.49	ppbv	97
22) trans-1,2-Dichloroethene	5.08	96	39476	0.53	ppbv	88
23) Vinyl Acetate	5.27	43	98226	0.50	ppbv #	94
24) 1,1-Dichloroethane	5.21	63	110196	0.56	ppbv	98
25) Ethyl Acetate	5.90	43	160236	0.53	ppbv	99
26) Hexane	5.90	57	76848m	0.54	ppbv	
27) Carbon Disulfide	4.74	76	76164	0.41	ppbv #	83
28) Methyl tert-Butyl Ether	5.24	73	89107	0.51	ppbv	98
29) Chloroform	5.96	83	126235	0.52	ppbv	99
30) Cyclohexane	7.38	84	47250m	0.47	ppbv	
31) cis-1,2-Dichloroethene	5.76	61	63896	0.50	ppbv	92
32) 1,1,1-Trichloroethane	6.75	97	102716	0.44	ppbv	99
34) 2-Butanone	5.45	43	122209	0.68	ppbv	98
35) Carbon Tetrachloride	7.27	117	101258	0.45	ppbv	88
36) Benzene	7.13	78	118420	0.51	ppbv	99
37) 1,2-Dichloroethane	6.54	62	88120	0.51	ppbv #	96
38) Trichloroethene	8.10	130	47596m	0.50	ppbv	
39) 1,2-Dichloropropane	7.87	63	45310m	0.52	ppbv	
40) 1,4-Dioxane	8.12	88	21728m	0.61	ppbv	
41) Tetrahydrofuran	6.30	42	41634m	0.50	ppbv	
42) Bromodichloromethane	8.05	83	102241	0.49	ppbv	98
43) Methyl Methacrylate	8.28	69	38650	0.47	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.13	57	199956	0.50	ppbv	97
45) t-1,3-Dichloropropene	9.55	75	46174m	0.43	ppbv	
46) cis-1,3-Dichloropropene	8.97	75	58024	0.42	ppbv	91
47) 1,1,2-Trichloroethane	9.76	97	52477	0.51	ppbv	93
48) Dibromochloromethane	10.59	129	76024	0.45	ppbv	97
49) Bromoform	13.35	173	57405	0.45	ppbv	98
50) 4-Methyl-2-Pentanone	9.03	43	98245	0.47	ppbv	99
51) 2-Hexanone	10.43	43	79345	0.44	ppbv #	99
52) Tetrachloroethene	11.52	164	45873m	0.50	ppbv	
53) Toluene	10.09	91	114649	0.44	ppbv	99
54) 1,2-Dibromoethane	10.90	107	71974	0.48	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.43	131	59936m	0.51	ppbv	
57) Chlorobenzene	12.45	112	119088	0.57	ppbv	93
58) Ethyl Benzene	13.01	91	163624	0.47	ppbv	98
59) m/p-Xylene	13.30	91	301582m	1.01	ppbv	
60) o-Xylene	14.00	91	145837	0.49	ppbv	99
61) Styrene	13.84	104	23556m	0.41	ppbv	
62) Isopropylbenzene	14.97	105	192400	0.50	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	112448	0.49	ppbv	98
64) n-propylbenzene	15.87	120	48090m	0.51	ppbv	
65) tert-Butylbenzene	17.05	119	175391m	0.53	ppbv	
66) Benzyl Chloride	17.30	91	14456m	0.48	ppbv	
67) sec-Butylbenzene	17.61	105	233318	0.49	ppbv	100
69) p-Isopropyltoluene	17.96	119	179531	0.49	ppbv	99
70) n-Butylbenzene	18.86	91	188140	0.49	ppbv	98
71) 2-Chlorotoluene	15.76	91	133159	0.48	ppbv	100
72) 4-Ethyltoluene	16.14	105	139462	0.46	ppbv	98
73) 1,3,5-Trimethylbenzene	16.30	105	136187	0.49	ppbv	91
74) 1,2,4-Trimethylbenzene	17.07	105	158724	0.51	ppbv	94
75) 1,3-Dichlorobenzene	17.31	146	100789m	0.53	ppbv	
76) 1,4-Dichlorobenzene	17.46	146	100456m	0.54	ppbv	
77) 1,2-Dichlorobenzene	18.14	146	102590m	0.54	ppbv	
78) Hexachloro-1,3-Butadiene	23.69	225	43428m	0.60	ppbv	
79) Naphthalene	22.59	128	91991m	0.52	ppbv	
80) Naphthalene, 2-methyl-	25.23	142	12115	0.35	ppbv	94
81) 1,2,4-Trichlorobenzene	22.32	180	59779m	0.61	ppbv	

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

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