

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031888.D
 Acq On : 19 Apr 2018 21:35
 Operator : SY/AP
 Sample : J2133-15 0.1 PPBV
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Manual Integrations
 APPROVED

sam
 4/23/2018 12:50:11 PM

Quant Time: Apr 20 09:08:17 2018

Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1084151	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2511367	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2485498	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	2056692	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.16	85	32912	0.15	ppbv	100
3) Chlorodifluoromethane	3.10	51	18415	0.15	ppbv	92
4) Chloromethane	3.26	50	9800	0.15	ppbv #	73
5) Vinyl Chloride	3.38	62	9274m	0.13	ppbv	
6) Bromomethane	3.61	94	6432m	0.14	ppbv	
7) Chloroethane	3.70	64	4383m	0.15	ppbv	
8) Dichlorotetrafluoroethane	3.31	85	25975	0.14	ppbv	98
9) Propene	3.13	41	4929	0.11	ppbv	92
10) Heptane	8.39	43	10533m	0.07	ppbv	
11) Trichlorofluoromethane	4.11	101	31550	0.14	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.67	101	19281	0.14	ppbv	99
13) Ethanol	3.77	45	2763m	0.19	ppbv	
14) Bromoethene	3.90	108	6153m	0.11	ppbv	
15) Acetone	4.04	43	33181	0.20	ppbv	93
16) 1,3-Butadiene	3.46	39	5653	0.09	ppbv #	55
17) tert-Butyl alcohol	4.52	59	10658m	0.15	ppbv	
18) 1,1-Dichloroethene	4.47	96	7583m	0.12	ppbv	
19) Isopropyl Alcohol	4.16	45	11247m	0.12	ppbv	
20) Methylene Chloride	4.52	84	13726m	0.23	ppbv	
21) Allyl Chloride	4.59	41	10114m	0.11	ppbv	
22) trans-1,2-Dichloroethene	5.07	96	8179m	0.13	ppbv	
23) Vinyl Acetate	5.29	43	15847m	0.09	ppbv	
24) 1,1-Dichloroethane	5.21	63	19108	0.11	ppbv #	81
25) Ethyl Acetate	5.90	43	26782m	0.10	ppbv	
26) Hexane	5.90	57	11840m	0.10	ppbv	
27) Carbon Disulfide	4.74	76	17564	0.11	ppbv #	17
28) Methyl tert-Butyl Ether	5.26	73	12789	0.09	ppbv #	91
29) Chloroform	5.97	83	26731	0.13	ppbv	84
30) Cyclohexane	7.41	84	20180m	0.23	ppbv	
31) cis-1,2-Dichloroethene	5.77	61	9405m	0.09	ppbv	
32) 1,1,1-Trichloroethane	6.75	97	23105	0.12	ppbv #	88
34) 2-Butanone	5.48	43	18400m	0.11	ppbv	
35) Carbon Tetrachloride	7.27	117	26619m	0.12	ppbv	
36) Benzene	7.14	78	17199	0.08	ppbv	96
37) 1,2-Dichloroethane	6.54	62	20822m	0.12	ppbv	
38) Trichloroethene	8.09	130	8729m	0.10	ppbv	
39) 1,2-Dichloropropane	7.86	63	9894m	0.12	ppbv	
41) Tetrahydrofuran	6.32	42	5409m	0.07	ppbv	
42) Bromodichloromethane	8.05	83	23400m	0.12	ppbv	
43) Methyl Methacrylate	8.28	69	6069m	0.08	ppbv	
44) 2,2,4-Trimethylpentane	8.13	57	27204m	0.07	ppbv	

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.56	75	7557m	0.07	ppbv	
46) cis-1,3-Dichloropropene	8.97	75	9480m	0.07	ppbv	
47) 1,1,2-Trichloroethane	9.76	97	11461m	0.11	ppbv	
48) Dibromochloromethane	10.60	129	15981	0.10	ppbv	98
49) Bromoform	13.34	173	12181m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.06	43	14083m	0.07	ppbv	
51) 2-Hexanone	10.46	43	11130m	0.06	ppbv	
52) Tetrachloroethene	11.52	164	8403m	0.10	ppbv	
53) Toluene	10.09	91	14062m	0.06	ppbv	
54) 1,2-Dibromoethane	10.90	107	12532m	0.09	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.42	131	8255	0.07	ppbv #	1
57) Chlorobenzene	12.44	112	26752m	0.13	ppbv	
58) Ethyl Benzene	13.01	91	22265m	0.06	ppbv	
59) m/p-Xylene	13.30	91	33644m	0.11	ppbv	
60) o-Xylene	14.00	91	17463m	0.06	ppbv	
61) Styrene	13.83	104	3819m	0.07	ppbv	
62) Isopropylbenzene	14.98	105	28764m	0.07	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.98	83	26526m	0.12	ppbv	
64) n-propylbenzene	15.88	120	5058m	0.05	ppbv	
65) tert-Butylbenzene	17.05	119	17577m	0.05	ppbv	
66) Benzyl Chloride	17.30	91	3741m	0.13	ppbv	
67) sec-Butylbenzene	17.61	105	30314m	0.06	ppbv	
69) p-Isopropyltoluene	17.97	119	19010m	0.05	ppbv	
70) n-Butylbenzene	18.85	91	22416m	0.06	ppbv	
71) 2-Chlorotoluene	15.76	91	18614m	0.07	ppbv	
72) 4-Ethyltoluene	16.14	105	17170m	0.06	ppbv	
73) 1,3,5-Trimethylbenzene	16.31	105	14925m	0.05	ppbv	
74) 1,2,4-Trimethylbenzene	17.08	105	16318m	0.05	ppbv	
75) 1,3-Dichlorobenzene	17.32	146	23454m	0.12	ppbv	
76) 1,4-Dichlorobenzene	17.45	146	16425m	0.09	ppbv	
77) 1,2-Dichlorobenzene	18.14	146	17056m	0.09	ppbv	
78) Hexachloro-1,3-Butadiene	23.68	225	11593m	0.16	ppbv	
79) Naphthalene	22.59	128	8779m	0.05	ppbv	
81) 1,2,4-Trichlorobenzene	22.31	180	6861m	0.07	ppbv	

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

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