

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102418\
 Data File : VL032695.D
 Acq On : 24 Oct 2018 19:54
 Operator : SY/AP
 Sample : J5164-15 0.1 LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 3:40:32 PM

Quant Time: Oct 25 07:15:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 07:15:09 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1445484	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3389559	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3320759	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2511780	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	23790	0.162	ppbv	99
3) Chlorodifluoromethane	3.02	51	15043	0.133	ppbv	98
4) Chloromethane	3.18	50	8627	0.137	ppbv	96
5) Vinyl Chloride	3.31	62	7727	0.113	ppbv	91
6) Bromomethane	3.53	94	5325m	0.125	ppbv	
7) Chloroethane	3.61	64	3409m	0.135	ppbv	
8) Dichlorotetrafluoroethane	3.23	85	20394m	0.131	ppbv	
9) Propene	3.04	41	5758	0.124	ppbv	97
10) Heptane	8.25	43	11730m	0.065	ppbv	
11) Trichlorofluoromethane	4.02	101	22625	0.118	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.57	101	19398m	0.121	ppbv	
14) Bromoethene	3.80	108	6185	0.114	ppbv	92
15) Acetone	3.94	43	29711	0.223	ppbv	97
16) 1,3-Butadiene	3.37	39	5627	0.115	ppbv #	78
17) tert-Butyl alcohol	4.42	59	6663m	0.170	ppbv	
18) 1,1-Dichloroethene	4.37	96	8463m	0.120	ppbv	
19) Isopropyl Alcohol	4.07	45	11367m	0.120	ppbv	
20) Methylene Chloride	4.42	84	13706m	0.202	ppbv	
21) Allvl Chloride	4.49	41	14199m	0.130	ppbv	
22) trans-1,2-Dichloroethene	4.98	96	9449m	0.131	ppbv	
23) Vinyl Acetate	5.17	43	24458m	0.103	ppbv	
24) 1,1-Dichloroethane	5.10	63	23552m	0.127	ppbv	
25) Ethyl Acetate	5.80	43	34496	0.112	ppbv #	95
26) Hexane	5.79	57	14579m	0.100	ppbv	
27) Carbon Disulfide	4.63	76	16708m	0.095	ppbv	
28) Methyl tert-Butyl Ether	5.16	73	18581m	0.089	ppbv	
29) Chloroform	5.86	83	30831	0.133	ppbv #	82
30) Cyclohexane	7.29	84	19518m	0.170	ppbv	
31) cis-1,2-Dichloroethene	5.65	61	12008m	0.089	ppbv	
32) 1,1,1-Trichloroethane	6.63	97	26981m	0.114	ppbv	
34) 2-Butanone	5.36	43	20242m	0.111	ppbv	
35) Carbon Tetrachloride	7.15	117	30384m	0.126	ppbv	
36) Benzene	7.01	78	27289m	0.099	ppbv	
37) 1,2-Dichloroethane	6.43	62	21079m	0.125	ppbv	
38) Trichloroethene	7.97	130	10556m	0.104	ppbv	
39) 1,2-Dichloropropane	7.74	63	11980m	0.113	ppbv	
41) Tetrahydrofuran	6.22	42	8275m	0.082	ppbv	
42) Bromodichloromethane	7.93	83	28707m	0.121	ppbv	
43) Methyl Methacrylate	8.16	69	7570m	0.075	ppbv	
44) 2,2,4-Trimethylpentane	8.01	57	28024	0.060	ppbv #	63
45) t-1,3-Dichloropropene	9.43	75	9727m	0.072	ppbv	

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46) cis-1,3-Dichloropropene	8.85	75	11977m	0.078	ppbv	
47) 1,1,2-Trichloroethane	9.64	97	14939m	0.119	ppbv	
48) Dibromochloromethane	10.47	129	19623m	0.094	ppbv	
49) Bromoform	13.21	173	16969m	0.103	ppbv	
50) 4-Methyl-2-Pentanone	8.92	43	21817m	0.081	ppbv	
51) 2-Hexanone	10.32	43	9523m	0.048	ppbv	
52) Tetrachloroethene	11.38	164	9793m	0.102	ppbv	
53) Toluene	9.97	91	19711m	0.062	ppbv	
54) 1,2-Dibromoethane	10.77	107	16092	0.094	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.29	131	17881m	0.123	ppbv	
57) Chlorobenzene	12.31	112	32410m	0.133	ppbv	
58) Ethyl Benzene	12.88	91	25837m	0.067	ppbv	
59) m/p-Xylene	13.14	91	36058m	0.105	ppbv	
60) o-Xylene	13.86	91	19010m	0.057	ppbv	
61) Styrene	13.69	104	10278m	0.046	ppbv	
62) Isopropylbenzene	14.84	105	36590m	0.078	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.86	83	29576m	0.114	ppbv	
64) n-propylbenzene	15.74	120	6481m	0.056	ppbv	
65) tert-Butylbenzene	16.92	119	21682m	0.054	ppbv	
66) Benzyl Chloride	17.17	91	17209m	0.083	ppbv	
67) sec-Butylbenzene	17.47	105	40132m	0.071	ppbv	
69) p-Isopropyltoluene	17.83	119	24241m	0.054	ppbv	
70) n-Butylbenzene	18.73	91	24874m	0.054	ppbv	
71) 2-Chlorotoluene	15.63	91	21470m	0.064	ppbv	
72) 4-Ethyltoluene	16.01	105	18558	0.053	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.17	105	19319m	0.056	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	18632m	0.051	ppbv	
75) 1,3-Dichlorobenzene	17.19	146	27781m	0.132	ppbv	
76) 1,4-Dichlorobenzene	17.32	146	18752m	0.096	ppbv	
77) 1,2-Dichlorobenzene	18.00	146	18797m	0.094	ppbv	
78) Hexachloro-1,3-Butadiene	23.56	225	15589m	0.165	ppbv	
79) Naphthalene	22.45	128	9511m	0.042	ppbv	
81) 1,2,4-Trichlorobenzene	22.17	180	4944m	0.042	ppbv	

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

