

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032216.D
 Acq On : 5 Jul 2018 23:22
 Operator : SY/AP
 Sample : J3762-14 1 PPB LOQ
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:47:39 AM

Quant Time: Jul 06 05:38:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1551850	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3789977	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3919796	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2969703	9.91	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.13	85	238649	1.17	ppbv	98
3) Chlorodifluoromethane	3.07	51	194198	1.02	ppbv #	92
4) Chloromethane	3.23	50	103880	1.03	ppbv	99
5) Vinyl Chloride	3.35	62	98584	0.96	ppbv	91
6) Bromomethane	3.58	94	56777	0.97	ppbv	99
7) Chloroethane	3.67	64	35638	0.99	ppbv	89
8) Dichlorotetrafluoroethane	3.28	85	245126	1.07	ppbv	90
9) Propene	3.09	41	63181	0.71	ppbv	95
10) Heptane	8.33	43	271657	1.05	ppbv	96
11) Trichlorofluoromethane	4.07	101	229012	1.04	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	140682	0.96	ppbv	90
13) Ethanol	3.72	45	25251m	0.94	ppbv	
14) Bromoethene	3.85	108	63008	0.90	ppbv #	95
15) Acetone	3.97	43	194697	1.07	ppbv	98
16) 1,3-Butadiene	3.42	39	90727	1.05	ppbv	85
17) tert-Butyl alcohol	4.44	59	79551	0.69	ppbv	95
18) 1,1-Dichloroethene	4.42	96	65472	0.93	ppbv	96
19) Isopropyl Alcohol	4.10	45	119748	0.79	ppbv #	46
20) Methylene Chloride	4.48	84	63845	0.96	ppbv	94
21) Allyl Chloride	4.55	41	97591	0.79	ppbv	89
22) trans-1,2-Dichloroethene	5.04	96	66919	0.91	ppbv	92
23) Vinyl Acetate	5.23	43	251274	0.76	ppbv #	97
24) 1,1-Dichloroethane	5.17	63	219733	1.04	ppbv	99
25) Ethyl Acetate	5.85	43	387271	1.03	ppbv	99
26) Hexane	5.86	57	175020	1.01	ppbv	93
27) Carbon Disulfide	4.69	76	125942	0.73	ppbv #	91
28) Methyl tert-Butyl Ether	5.20	73	257435	0.84	ppbv	97
29) Chloroform	5.93	83	281132	1.12	ppbv	92
30) Cyclohexane	7.34	84	158002	0.97	ppbv #	72
31) cis-1,2-Dichloroethene	5.72	61	156582	0.91	ppbv	91
32) 1,1,1-Trichloroethane	6.70	97	298903	1.13	ppbv	96
34) 2-Butanone	5.41	43	227729	0.95	ppbv	97
35) Carbon Tetrachloride	7.22	117	294354	1.13	ppbv	97
36) Benzene	7.09	78	415223	1.13	ppbv	99
37) 1,2-Dichloroethane	6.49	62	247062	1.35	ppbv	96
38) Trichloroethene	8.05	130	128353	0.90	ppbv	94
39) 1,2-Dichloropropane	7.82	63	160305	1.11	ppbv	91
40) 1,4-Dioxane	8.07	88	57983m	1.02	ppbv	
41) Tetrahydrofuran	6.25	42	126135	0.87	ppbv	99
42) Bromodichloromethane	8.01	83	284373	0.99	ppbv	100
43) Methyl Methacrylate	8.23	69	138145	0.91	ppbv	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	652004	1.02	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	137094	0.73	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	196948	0.88	ppbv	94
47) 1,1,2-Trichloroethane	9.71	97	180964	1.20	ppbv	93
48) Dibromochloromethane	10.54	129	252516	1.08	ppbv	98
49) Bromoform	13.30	173	192167	0.99	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	386316	0.98	ppbv	99
51) 2-Hexanone	10.38	43	366929	1.12	ppbv #	97
52) Tetrachloroethene	11.47	164	136918	1.03	ppbv	94
53) Toluene	10.04	91	450754	1.02	ppbv	98
54) 1,2-Dibromoethane	10.85	107	265785	1.18	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.38	131	200948	1.15	ppbv #	1
57) Chlorobenzene	12.39	112	400399	1.18	ppbv	97
58) Ethyl Benzene	12.96	91	666813	1.06	ppbv	91
59) m/p-Xylene	13.25	91	1124704m	2.22	ppbv	
60) o-Xylene	13.94	91	570992	1.13	ppbv	96
61) Styrene	13.78	104	398374	0.96	ppbv	93
62) Isopropylbenzene	14.92	105	787735	1.01	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.93	83	464823	1.19	ppbv	99
64) n-propylbenzene	15.82	120	190452	0.95	ppbv	68
65) tert-Butylbenzene	17.01	119	673344	0.99	ppbv	90
66) Benzyl Chloride	17.25	91	219020	0.52	ppbv #	92
67) sec-Butylbenzene	17.55	105	1016421	1.02	ppbv	96
69) p-Isopropyltoluene	17.91	119	754657	0.94	ppbv	95
70) n-Butylbenzene	18.81	91	846464	1.01	ppbv	96
71) 2-Chlorotoluene	15.71	91	607066	1.02	ppbv	95
72) 4-Ethyltoluene	16.10	105	613102	0.94	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.25	105	591434	0.96	ppbv	87
74) 1,2,4-Trimethylbenzene	17.02	105	617014	1.00	ppbv	93
75) 1,3-Dichlorobenzene	17.26	146	371339	1.05	ppbv	97
76) 1,4-Dichlorobenzene	17.40	146	350254	0.98	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	366405m	1.04	ppbv	
78) Hexachloro-1,3-Butadiene	23.63	225	108124	0.88	ppbv	98
79) Naphthalene	22.53	128	301366m	0.53	ppbv	
80) Naphthalene, 2-methyl-	25.19	142	22022	0.11	ppbv #	89
81) 1,2,4-Trichlorobenzene	22.25	180	166254m	0.65	ppbv	

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

