

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034003.D
 Acq On : 3 Jul 2019 3:10
 Operator : SY/AP
 Sample : K3591-13 LOD 0.4
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:42 PM

Quant Time: Jul 03 09:21:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 09:21:17 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	884393	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2543289	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2445376	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2052577	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	106320	0.583	ppbv	92
3) Chlorodifluoromethane	3.00	51	51492	0.472	ppbv	94
4) Chloromethane	3.16	50	28388	0.452	ppbv #	87
5) Vinyl Chloride	3.27	62	29847	0.423	ppbv #	86
6) Bromomethane	3.49	94	18757m	0.450	ppbv	
7) Chloroethane	3.59	64	11883	0.471	ppbv #	72
8) Dichlorotetrafluoroethane	3.21	85	92106	0.518	ppbv	95
9) Propene	3.02	41	13698	0.341	ppbv	94
10) Heptane	8.21	43	34979m	0.348	ppbv	
11) Trichlorofluoromethane	3.99	101	95590	0.466	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.53	101	67452	0.464	ppbv	100
13) Ethanol	3.65	45	5726m	0.459	ppbv	
14) Bromoethene	3.77	108	24010m	0.443	ppbv	
15) Acetone	3.90	43	65327	0.439	ppbv	91
16) 1,3-Butadiene	3.35	39	22001m	0.419	ppbv	
17) tert-Butyl alcohol	4.36	59	53348	0.450	ppbv #	94
18) 1,1-Dichloroethene	4.33	96	26832	0.415	ppbv #	70
19) Isopropyl Alcohol	4.02	45	44608m	0.447	ppbv	
20) Methylene Chloride	4.38	84	31294m	0.483	ppbv	
21) Allyl Chloride	4.45	41	37068	0.400	ppbv	93
22) trans-1,2-Dichloroethene	4.94	96	29016m	0.471	ppbv	
23) Vinyl Acetate	5.14	43	50503	0.340	ppbv #	95
24) 1,1-Dichloroethane	5.07	63	56351	0.428	ppbv #	93
25) Ethyl Acetate	5.75	43	78676	0.387	ppbv	97
26) Hexane	5.75	57	36009	0.387	ppbv	92
27) Carbon Disulfide	4.61	76	61377	0.388	ppbv #	84
28) Methyl tert-Butyl Ether	5.10	73	54218m	0.344	ppbv	
29) Chloroform	5.82	83	80974	0.463	ppbv	97
30) Cyclohexane	7.21	84	25139m	0.350	ppbv	
31) cis-1,2-Dichloroethene	5.62	61	31070m	0.346	ppbv	
32) 1,1,1-Trichloroethane	6.59	97	75645m	0.427	ppbv	
34) 2-Butanone	5.32	43	44015m	0.327	ppbv	
35) Carbon Tetrachloride	7.10	117	82927	0.412	ppbv	100
36) Benzene	6.98	78	60133	0.302	ppbv #	95
37) 1,2-Dichloroethane	6.38	62	55780m	0.380	ppbv	
38) Trichloroethene	7.93	130	27572m	0.311	ppbv	
39) 1,2-Dichloropropane	7.70	63	26856m	0.363	ppbv	
40) 1,4-Dioxane	7.97	88	10850m	0.318	ppbv	
41) Tetrahydrofuran	6.16	42	19427m	0.294	ppbv	
42) Bromodichloromethane	7.89	83	75100	0.382	ppbv #	83
43) Methyl Methacrylate	8.11	69	21409m	0.284	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	98420m	0.287	ppbv	
45) t-1,3-Dichloropropene	9.38	75	24511m	0.248	ppbv	
46) cis-1,3-Dichloropropene	8.80	75	26584	0.232	ppbv	92
47) 1,1,2-Trichloroethane	9.58	97	34494m	0.371	ppbv	
48) Dibromochloromethane	10.42	129	63928m	0.360	ppbv	
49) Bromoform	13.17	173	59031m	0.389	ppbv	
50) 4-Methyl-2-Pentanone	8.87	43	53791	0.269	ppbv	98
51) 2-Hexanone	10.26	43	34339m	0.213	ppbv	
52) Tetrachloroethene	11.35	164	30773m	0.359	ppbv	
53) Toluene	9.92	91	54683m	0.240	ppbv	
54) 1,2-Dibromoethane	10.72	107	46662	0.340	ppbv #	79
56) 1,1,1,2-Tetrachloroethane	12.24	131	51105m	0.468	ppbv	
57) Chlorobenzene	12.26	112	83939	0.431	ppbv #	81
58) Ethyl Benzene	12.83	91	78123m	0.266	ppbv	
59) m/p-Xylene	13.12	91	155237m	0.583	ppbv	
60) o-Xylene	13.81	91	82772m	0.311	ppbv	
61) Styrene	13.65	104	41313m	0.234	ppbv	
62) Isopropylbenzene	14.79	105	115141	0.281	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.80	83	78966	0.383	ppbv	96
64) n-propylbenzene	15.69	120	30670m	0.289	ppbv	
65) tert-Butylbenzene	16.87	119	105065	0.302	ppbv	91
66) Benzyl Chloride	17.12	91	55619m	0.312	ppbv	
67) sec-Butylbenzene	17.42	105	158958	0.325	ppbv	98
69) p-Isopropyltoluene	17.79	119	111694	0.277	ppbv	97
70) n-Butylbenzene	18.68	91	122763	0.290	ppbv	97
71) 2-Chlorotoluene	15.59	91	69484	0.232	ppbv	94
72) 4-Ethyltoluene	15.97	105	86734m	0.254	ppbv	
73) 1,3,5-Trimethylbenzene	16.13	105	88964	0.280	ppbv	100
74) 1,2,4-Trimethylbenzene	16.89	105	122816	0.348	ppbv	94
75) 1,3-Dichlorobenzene	17.13	146	95972m	0.429	ppbv	
76) 1,4-Dichlorobenzene	17.27	146	75765m	0.359	ppbv	
77) 1,2-Dichlorobenzene	17.96	146	82736m	0.399	ppbv	
78) Hexachloro-1,3-Butadiene	23.51	225	77068	0.437	ppbv	99
79) Naphthalene	22.37	128	69516m	0.235	ppbv	
80) Naphthalene, 2-methyl-	25.08	142	28980	0.269	ppbv	98
81) 1,2,4-Trichlorobenzene	22.10	180	56061m	0.295	ppbv	

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

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