

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034311.D
 Acq On : 17 Oct 2019 00:01
 Operator : SY/AP
 Sample : K5111-13 0.4 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:00 PM

Quant Time: Oct 17 14:41:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1045025	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.23	114	2001991	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2019623	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1785381	10.44	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	94770	0.526	ppbv	99
3) Chlorodifluoromethane	2.98	51	53707	0.438	ppbv	100
4) Chloromethane	3.14	50	32340	0.446	ppbv	91
5) Vinyl Chloride	3.25	62	28098	0.407	ppbv	90
6) Bromomethane	3.47	94	14992m	0.443	ppbv	
7) Chloroethane	3.56	64	11226m	0.462	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	74827	0.479	ppbv	94
9) Propene	3.00	41	22197	0.409	ppbv	98
10) Heptane	8.19	43	50287m	0.361	ppbv	
11) Trichlorofluoromethane	3.96	101	80448	0.470	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.50	101	49989	0.446	ppbv	99
13) Ethanol	3.63	45	7118m	0.586	ppbv	
14) Bromoethene	3.75	108	19118m	0.433	ppbv	
15) Acetone	3.87	43	84822	0.567	ppbv	99
16) 1,3-Butadiene	3.33	39	22963	0.378	ppbv	100
17) tert-Butyl alcohol	4.33	59	41868	0.439	ppbv	95
18) 1,1-Dichloroethene	4.30	96	20640	0.421	ppbv	89
19) Isopropyl Alcohol	4.00	45	38937	0.467	ppbv #	90
20) Methylene Chloride	4.36	84	30521m	0.565	ppbv	
21) Allyl Chloride	4.43	41	35026	0.424	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	21671m	0.443	ppbv	
23) Vinyl Acetate	5.10	43	66744	0.358	ppbv #	93
24) 1,1-Dichloroethane	5.04	63	58675m	0.424	ppbv	
25) Ethyl Acetate	5.72	43	107124	0.425	ppbv	99
26) Hexane	5.72	57	41797	0.389	ppbv #	81
27) Carbon Disulfide	4.57	76	42208m	0.378	ppbv	
28) Methyl tert-Butyl Ether	5.07	73	60672	0.373	ppbv	96
29) Chloroform	5.79	83	77874m	0.458	ppbv	
30) Cyclohexane	7.19	84	30236m	0.382	ppbv	
31) cis-1,2-Dichloroethene	5.58	61	38107	0.349	ppbv	91
32) 1,1,1-Trichloroethane	6.56	97	68087	0.412	ppbv	96
34) 2-Butanone	5.28	43	61155	0.374	ppbv	98
35) Carbon Tetrachloride	7.07	117	68828m	0.395	ppbv	
36) Benzene	6.94	78	70389	0.366	ppbv #	89
37) 1,2-Dichloroethane	6.35	62	62333	0.435	ppbv #	96
38) Trichloroethene	7.90	130	29477m	0.382	ppbv	
39) 1,2-Dichloropropane	7.67	63	31886	0.386	ppbv	96
40) 1,4-Dioxane	7.93	88	14269m	0.491	ppbv	
41) Tetrahydrofuran	6.11	42	27892m	0.307	ppbv	
42) Bromodichloromethane	7.85	83	69947	0.399	ppbv #	84
43) Methyl Methacrylate	8.08	69	26155m	0.329	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	135654m	0.382	ppbv	
45) t-1,3-Dichloropropene	9.35	75	29021m	0.300	ppbv	
46) cis-1,3-Dichloropropene	8.77	75	32200m	0.290	ppbv	
47) 1,1,2-Trichloroethane	9.55	97	33575	0.401	ppbv	87
48) Dibromochloromethane	10.38	129	51561m	0.375	ppbv	
49) Bromoform	13.13	173	43154m	0.354	ppbv	
50) 4-Methyl-2-Pentanone	8.83	43	83577m	0.357	ppbv	
51) 2-Hexanone	10.23	43	64204m	0.334	ppbv	
52) Tetrachloroethene	11.31	164	27602m	0.367	ppbv	
53) Toluene	9.88	91	68618m	0.324	ppbv	
54) 1,2-Dibromoethane	10.69	107	46851m	0.377	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.21	131	40340m	0.433	ppbv	
57) Chlorobenzene	12.23	112	75220m	0.446	ppbv	
58) Ethyl Benzene	12.80	91	105525	0.374	ppbv #	85
59) m/p-Xylene	13.07	91	193727m	0.792	ppbv	
60) o-Xylene	13.78	91	96293m	0.395	ppbv	
61) Styrene	13.62	104	52146m	0.304	ppbv	
62) Isopropylbenzene	14.76	105	127841	0.398	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.76	83	83420m	0.426	ppbv	
64) n-propylbenzene	15.66	120	31951m	0.387	ppbv	
65) tert-Butylbenzene	16.84	119	108457m	0.381	ppbv	
66) Benzyl Chloride	17.09	91	33250m	0.295	ppbv	
67) sec-Butylbenzene	17.39	105	144750	0.361	ppbv	99
69) p-Isopropyltoluene	17.75	119	115192	0.352	ppbv	96
70) n-Butylbenzene	18.65	91	136777m	0.384	ppbv	
71) 2-Chlorotoluene	15.55	91	96752	0.388	ppbv	94
72) 4-Ethyltoluene	15.93	105	95640	0.349	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.09	105	98061	0.361	ppbv	93
74) 1,2,4-Trimethylbenzene	16.86	105	110715	0.391	ppbv	96
75) 1,3-Dichlorobenzene	17.09	146	75025m	0.442	ppbv	
76) 1,4-Dichlorobenzene	17.23	146	70592m	0.425	ppbv	
77) 1,2-Dichlorobenzene	17.92	146	67327m	0.404	ppbv	
78) Hexachloro-1,3-Butadiene	23.48	225	58126m	0.422	ppbv	
79) Naphthalene	22.34	128	54391m	0.263	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	7291	0.122	ppbv	89
81) 1,2,4-Trichlorobenzene	22.06	180	45787m	0.339	ppbv	

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

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