

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033302.D
 Acq On : 13 Mar 2019 18:27
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:45 PM

Quant Time: Mar 13 23:58:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14 00:00:00 2019
 QLast Update : Wed Mar 13 17:31:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	778677	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1754371	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1954820	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1547546	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.07	85	93191	0.593 ppbv	97
3) Chlorodifluoromethane	3.02	51	55121	0.534 ppbv	99
4) Chloromethane	3.17	50	29711	0.538 ppbv #	88
5) Vinyl Chloride	3.29	62	26331	0.488 ppbv #	88
6) Bromomethane	3.52	94	18130	0.550 ppbv	88
7) Chloroethane	3.60	64	10600	0.544 ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	72229	0.543 ppbv	100
9) Propene	3.04	41	23941	0.508 ppbv	100
10) Heptane	8.24	43	52726	0.497 ppbv	98
11) Trichlorofluoromethane	4.01	101	76590	0.492 ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.55	101	52301	0.587 ppbv	98
13) Ethanol	3.66	45	7216	0.502 ppbv #	62
14) Bromoethene	3.79	108	20043	0.482 ppbv	95
15) Acetone	3.91	43	61638	0.516 ppbv	98
16) 1,3-Butadiene	3.36	39	24996	0.580 ppbv	98
17) tert-Butyl alcohol	4.38	59	9602m	0.599 ppbv	
18) 1,1-Dichloroethene	4.35	96	22812m	0.578 ppbv	
19) Isopropyl Alcohol	4.04	45	37741	0.523 ppbv #	95
20) Methylene Chloride	4.41	84	24357	0.613 ppbv	96
21) Allyl Chloride	4.48	41	33310	0.561 ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	22040	0.524 ppbv	90
23) Vinyl Acetate	5.15	43	73825	0.493 ppbv #	94
24) 1,1-Dichloroethane	5.09	63	57819	0.533 ppbv	99
25) Ethyl Acetate	5.77	43	101639	0.552 ppbv	99
26) Hexane	5.78	57	47736	0.553 ppbv	94
27) Carbon Disulfide	4.62	76	43758	0.477 ppbv #	89
28) Methyl tert-Butyl Ether	5.12	73	63552	0.518 ppbv	97
29) Chloroform	5.84	83	74320	0.565 ppbv	95
30) Cyclohexane	7.24	84	35156m	0.525 ppbv	
31) cis-1,2-Dichloroethene	5.64	61	42609	0.514 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	66649	0.520 ppbv	96
34) 2-Butanone	5.34	43	61316	0.529 ppbv	98
35) Carbon Tetrachloride	7.13	117	65152	0.508 ppbv	99
36) Benzene	7.00	78	90044m	0.557 ppbv	
37) 1,2-Dichloroethane	6.41	62	55214	0.569 ppbv	99
38) Trichloroethene	7.96	130	32985	0.523 ppbv	95
39) 1,2-Dichloropropane	7.73	63	34736	0.571 ppbv	94
40) 1,4-Dioxane	8.00	88	11868m	0.518 ppbv	
41) Tetrahydrofuran	6.17	42	34453m	0.535 ppbv	
42) Bromodichloromethane	7.91	83	68963	0.516 ppbv	96
43) Methyl Methacrylate	8.14	69	32529m	0.516 ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033302.D
 Acq On : 13 Mar 2019 18:27
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:45 PM

Quant Time: Mar 13 23:58:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14 00:00:00 2019
 QLast Update : Wed Mar 13 17:31:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	149287	0.543	ppbv	96
45) t-1,3-Dichloropropene	9.41	75	31354	0.404	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	41795	0.460	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	35429	0.545	ppbv	98
48) Dibromochloromethane	10.44	129	52310	0.491	ppbv	99
49) Bromoform	13.20	173	41084m	0.475	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	85149	0.514	ppbv	98
51) 2-Hexanone	10.30	43	62851m	0.497	ppbv	
52) Tetrachloroethene	11.37	164	35036m	0.591	ppbv	
53) Toluene	9.94	91	92288	0.495	ppbv	99
54) 1,2-Dibromoethane	10.76	107	58185	0.582	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	45647m	0.549	ppbv	
57) Chlorobenzene	12.30	112	88110	0.598	ppbv	99
58) Ethyl Benzene	12.86	91	139206	0.518	ppbv	99
59) m/p-Xylene	13.13	91	238860m	1.063	ppbv	
60) o-Xylene	13.84	91	117357	0.543	ppbv	97
61) Styrene	13.68	104	72529	0.472	ppbv	98
62) Isopropylbenzene	14.83	105	166183	0.552	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	82944	0.573	ppbv	100
64) n-propylbenzene	15.72	120	38762m	0.523	ppbv	
65) tert-Butylbenzene	16.90	119	129666	0.510	ppbv	96
66) Benzyl Chloride	17.15	91	38077m	0.387	ppbv	
67) sec-Butylbenzene	17.45	105	194411m	0.538	ppbv	
69) p-Isopropyltoluene	17.81	119	147048	0.503	ppbv	98
70) n-Butylbenzene	18.71	91	150935	0.481	ppbv	98
71) 2-Chlorotoluene	15.61	91	120226	0.530	ppbv	97
72) 4-Ethyltoluene	16.00	105	112392	0.482	ppbv	97
73) 1,3,5-Trimethylbenzene	16.16	105	107219	0.488	ppbv	93
74) 1,2,4-Trimethylbenzene	16.92	105	110402	0.493	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	75776m	0.565	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	72549m	0.547	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	73143m	0.548	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	59897m	0.538	ppbv	
79) Naphthalene	22.41	128	63950m	0.264	ppbv	
80) Naphthalene,2-methyl-	25.14	142	2210m	0.033	ppbv	
81) 1,2,4-Trichlorobenzene	22.14	180	45837m	0.359	ppbv	

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

