

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102318\
 Data File : VN051969.D
 Acq On : 23 Oct 2018 18:12
 Operator : MD\SY
 Sample : VN1023WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1023WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 10:09:52 AM

Quant Time: Oct 24 07:40:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	155758	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	904640	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	817444	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	285905	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	12.40	95	354034	30.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.10%
63) Toluene-d8	10.09	98	1056653	29.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	136172	22.503	ug/l 98
3) Chloromethane	2.06	50	121030	18.925	ug/l 97
4) Vinyl Chloride	2.19	62	156758	16.413	ug/l 97
5) Bromomethane	2.58	94	158915	18.832	ug/l 88
6) Chloroethane	2.71	64	114527	16.639	ug/l 97
7) Trichlorofluoromethane	3.03	101	284152	20.869	ug/l 98
8) Diethyl Ether	3.42	74	82753	20.877	ug/l 70
9) 1,1,2-Trichlorotrifluoroet	3.77	101	174042	22.444	ug/l # 41
10) 1,1-Dichloroethene	3.75	96	151287	21.096	ug/l 81
11) Methyl Iodide	3.96	142	257173	24.669	ug/l 95
12) Methyl Acetate	4.33	43	86632	19.454	ug/l 98
13) Acrolein	3.61	56	10197m	34.755	ug/l
14) Acrylonitrile	4.99	53	193613	97.280	ug/l # 62
15) Acetone	3.82	58	43695	88.812	ug/l 100
16) Carbon Disulfide	4.06	76	345010	18.319	ug/l 98
17) Allyl chloride	4.33	41	145218	17.057	ug/l 77
18) Methylene Chloride	4.56	84	174053	21.707	ug/l 88
19) trans-1,2-Dichloroethene	5.05	96	168300	20.553	ug/l # 78
20) Diisopropyl ether	5.96	45	373032	19.673	ug/l # 82
21) 1,1-Dichloroethane	5.85	63	271744	20.510	ug/l # 98
22) cis-1,2-Dichloroethene	6.83	96	200143	20.809	ug/l # 80
23) tert-Butyl Alcohol	4.78	59	41783	79.712	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	398723	19.298	ug/l # 70
25) Chloroform	7.37	83	333116	21.193	ug/l 99
26) Cyclohexane	7.66	56	209567	18.657	ug/l # 66
29) 1,1-Dichloropropene	7.80	75	228027	19.555	ug/l 92
30) 2-Butanone	6.84	43	200770	82.375	ug/l # 84
31) 2,2-Dichloropropane	6.83	77	246035	17.936	ug/l # 89
32) 1,1,1-Trichloroethane	7.58	97	302676	19.578	ug/l 94
33) Carbon Tetrachloride	7.78	117	267820	19.148	ug/l 92
34) Benzene	8.04	78	701013	20.323	ug/l # 66
35) Methacrylonitrile	7.17	41	34923	10.906	ug/l # 68
36) 1,2-Dichloroethane	8.13	62	219092	19.823	ug/l # 94
37) Trichloroethene	8.84	130	220230	20.568	ug/l 96
38) Methylcyclohexane	9.08	83	277634	18.563	ug/l 78
39) 1,2-Dichloropropane	9.12	63	160135	19.714	ug/l 98
40) Dibromomethane	9.21	93	122152	20.261	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	240332	19.300	ug/l	94
42) Vinyl Acetate	5.90	43	1208922	88.113	ug/l #	88
43) Ethyl Acetate	6.93	43	89459	16.904	ug/l	100
44) Isopropyl Acetate	8.17	43	178873	16.922	ug/l	100
45) 1,4-Dioxane	9.20	88	32688	385.122	ug/l #	74
46) Methyl methacrylate	9.20	41	90606	18.583	ug/l	68
47) n-amyl Acetate	12.07	43	165402m	18.692	ug/l	
48) t-1,3-Dichloropropene	10.38	75	211963	17.455	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	252750	18.881	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	168478	20.226	ug/l	94
51) Ethyl methacrylate	10.43	69	175973	18.452	ug/l	82
52) 1,3-Dichloropropane	10.71	76	257773	20.051	ug/l	97
53) Dibromochloromethane	10.90	129	184679	17.922	ug/l	96
54) 1,2-Dibromoethane	11.00	107	174706	19.982	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	466636	114.460	ug/l #	91
56) Bromoform	12.13	173	106892	15.728	ug/l	95
58) 4-Methyl-2-Pentanone	9.98	43	484784	88.621	ug/l #	86
59) 2-Hexanone	10.75	43	321636	87.153	ug/l #	90
61) Tetrachloroethene	10.63	164	205694	19.676	ug/l	97
62) Toluene	10.16	91	830399	20.448	ug/l	98
64) Chlorobenzene	11.43	112	550433	20.696	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	201556	19.744	ug/l	99
66) Ethyl Benzene	11.51	91	899116	20.033	ug/l	99
67) m/p-Xylenes	11.62	106	730337	40.137	ug/l	95
68) o-Xylene	11.95	106	355600	19.824	ug/l	87
69) Styrene	11.96	104	563670	20.481	ug/l	96
70) Isopropylbenzene	12.25	105	945966	19.776	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	184520	19.533	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	153123m	20.604	ug/l	
73) Bromobenzene	12.53	156	257698	21.749	ug/l	76
74) n-propylbenzene	12.59	91	1023912	19.900	ug/l	94
75) 2-Chlorotoluene	12.67	91	603647	20.011	ug/l	90
76) 1,3,5-Trimethylbenzene	12.73	105	776408	19.628	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	35882	14.599	ug/l	98
78) 4-Chlorotoluene	12.77	91	615982	20.784	ug/l	89
79) tert-butylbenzene	12.99	119	718403	19.749	ug/l	94
80) 1,2,4-Trimethylbenzene	13.04	105	796801	20.155	ug/l	97
81) sec-Butylbenzene	13.17	105	943681	19.830	ug/l	96
82) p-Isopropyltoluene	13.29	119	853465	20.042	ug/l	95
83) 1,3-Dichlorobenzene	13.28	146	455103	21.768	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	452220	22.976	ug/l	98
85) n-Butylbenzene	13.61	91	655716	20.420	ug/l	94
86) Hexachloroethane	13.87	117	122007	16.617	ug/l	92
87) 1,2-Dichlorobenzene	13.65	146	447910	22.129	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.27	75	26760	18.969	ug/l #	72
89) 1,2,4-Trichlorobenzene	14.91	180	241501	25.805	ug/l	98
90) Hexachlorobutadiene	15.01	225	134445	20.611	ug/l	97
91) Naphthalene	15.13	128	519913	27.313	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	228906	24.857	ug/l	93

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

