

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041724\
 Data File : VN081768.D
 Acq On : 17 Apr 2024 12:06
 Operator : JC\MD
 Sample : VN0417WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0417WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/18/2024
 Supervised By : Mahesh Dadoda 04/18/2024

Quant Time: Apr 18 01:09:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.824	128	17031m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	108733	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	142105	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	62045	29.655	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.833%	
60) 4-Bromofluorobenzene	12.853	95	85289	30.527	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.767%	
63) Toluene-d8	10.565	98	180641	31.690	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	105.633%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	38281	16.086	ug/l	95
3) Chloromethane	2.359	50	56167	27.204	ug/l	99
4) Vinyl Chloride	2.518	62	56288	26.513	ug/l	99
5) Bromomethane	2.959	94	33084	18.400	ug/l	96
6) Chloroethane	3.130	64	31754	19.110	ug/l	89
7) Trichlorofluoromethane	3.494	101	69353	19.897	ug/l	88
8) Diethyl Ether	3.959	74	20097	15.459	ug/l	66
9) 1,1,2-Trichlorotrifluo...	4.377	101	41340	17.287	ug/l	95
10) 1,1-Dichloroethene	4.341	96	35304	16.097	ug/l	86
11) Methyl Iodide	4.589	142	32400	13.045	ug/l	96
12) Methyl Acetate	5.024	43	35269	17.513	ug/l #	78
13) Acrolein	4.183	56	24297	91.609	ug/l #	57
14) Acrylonitrile	5.724	53	90240	90.022	ug/l	94
15) Acetone	4.424	58	20668	93.744	ug/l	85
16) Carbon Disulfide	4.712	76	102777	16.481	ug/l	99
17) Allyl chloride	5.018	41	45267	17.062	ug/l	79
18) Methylene Chloride	5.283	84	46289	18.330	ug/l	96
19) trans-1,2-Dichloroethene	5.788	96	40667	16.909	ug/l	91
20) Diisopropyl ether	6.671	45	119745	18.958	ug/l #	96
21) 1,1-Dichloroethane	6.565	63	77517	18.407	ug/l	99
22) cis-1,2-Dichloroethene	7.488	96	48283	16.625	ug/l	97
23) tert-Butyl Alcohol	5.506	59	30643	86.112	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	117986	17.201	ug/l	93
25) Chloroform	7.965	83	88864	18.546	ug/l	94
26) Cyclohexane	8.259	56	59869	17.734	ug/l #	86
29) 1,1-Dichloropropene	8.377	75	58673	20.525	ug/l	97
30) 2-Butanone	7.482	43	110393	101.118	ug/l	98
31) 2,2-Dichloropropane	7.488	77	73642	20.682	ug/l	93
32) 1,1,1-Trichloroethane	8.171	97	77276	19.614	ug/l	97
33) Carbon Tetrachloride	8.359	117	70810	19.828	ug/l	97
34) Benzene	8.606	78	181796	19.742	ug/l	97
35) Methacrylonitrile	7.771	41	24308	19.657	ug/l	82
36) 1,2-Dichloroethane	8.671	62	67261	22.269	ug/l	98
37) Trichloroethene	9.353	130	45773	18.784	ug/l	93
38) Methylcyclohexane	9.600	83	61909	17.719	ug/l	98
39) 1,2-Dichloropropane	9.623	63	44222	20.584	ug/l	100
40) Dibromomethane	9.712	93	34404	20.104	ug/l	96
41) Bromodichloromethane	9.888	83	70298	20.144	ug/l	97
42) Vinyl Acetate	6.600	43	446778	98.238	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	47672	19.813	ug/l #	81
44) Isopropyl Acetate	8.688	43	83659	20.751	ug/l	93
45) 1,4-Dioxane	9.694	88	18357	412.487	ug/l	91
46) Methyl methacrylate	9.682	41	38411	21.187	ug/l	87
47) n-amyl Acetate	12.494	43	71415	19.741	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	68312	20.547	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	70796	19.774	ug/l #	90
50) 1,1,2-Trichloroethane	11.018	97	45910	20.036	ug/l	96
51) Ethyl methacrylate	10.876	69	60784	19.051	ug/l	92
52) 1,3-Dichloropropane	11.165	76	75181	20.017	ug/l	97
53) Dibromochloromethane	11.359	129	53524	19.554	ug/l	100
54) 1,2-Dibromoethane	11.470	107	45533	19.224	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	171398	109.394	ug/l	99
56) Bromoform	12.576	173	34112	19.490	ug/l #	95
58) 4-Methyl-2-Pentanone	10.447	43	269387	110.233	ug/l	90
59) 2-Hexanone	11.194	43	203473m	110.866	ug/l	
61) Tetrachloroethene	11.106	164	51309	19.486	ug/l	96
62) Toluene	10.635	91	207934	20.113	ug/l	99
64) Chlorobenzene	11.894	112	129040	19.684	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	44853	18.835	ug/l	92
66) Ethyl Benzene	11.965	91	209132	19.026	ug/l	96
67) m/p-Xylenes	12.076	106	173087	39.753	ug/l	94
68) o-Xylene	12.400	106	75639	18.299	ug/l	97
69) Styrene	12.412	104	137672	19.557	ug/l	98
70) Isopropylbenzene	12.694	105	208987	19.598	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	57754	20.734	ug/l	96
72) 1,2,3-Trichloropropane	12.988	75	58072m	22.519	ug/l	
73) Bromobenzene	12.982	156	49597	18.770	ug/l	97
74) n-propylbenzene	13.041	91	254887	19.969	ug/l	100
75) 2-Chlorotoluene	13.123	91	154466	20.312	ug/l	96
76) 1,3,5-Trimethylbenzene	13.176	105	179324	19.813	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	21231	19.880	ug/l	93
78) 4-Chlorotoluene	13.223	91	151704	20.113	ug/l	96
79) tert-butylbenzene	13.441	119	149501	19.416	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	180631	20.012	ug/l	99
81) sec-Butylbenzene	13.617	105	223222	20.102	ug/l	98
82) p-Isopropyltoluene	13.729	119	176573	18.959	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	99904	20.231	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	97809	20.462	ug/l	95
85) n-Butylbenzene	14.059	91	151363	19.295	ug/l	98
86) Hexachloroethane	14.335	117	37680	21.178	ug/l	81
87) 1,2-Dichlorobenzene	14.106	146	96852	20.605	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	12776	21.039	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	50055m	19.429	ug/l	
90) Hexachlorobutadiene	15.500	225	21313	20.643	ug/l	99
91) Naphthalene	15.647	128	143497	17.324	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	50116	19.452	ug/l	92

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

