

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041724\
 Data File : VN081769.D
 Acq On : 17 Apr 2024 12:40
 Operator : JC\MD
 Sample : VN0417WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0417WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 01:10:34 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	7.812	128	16561	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	101766	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	130298	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	59420	29.206	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.367%		
60) 4-Bromofluorobenzene	12.853	95	83084	32.433	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	108.100%		
63) Toluene-d8	10.571	98	165139	31.596	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	105.333%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	38266	16.536	ug/l	100
3) Chloromethane	2.359	50	56783	28.283	ug/l	92
4) Vinyl Chloride	2.512	62	58984	28.571	ug/l	93
5) Bromomethane	2.959	94	39080	22.352	ug/l	96
6) Chloroethane	3.124	64	42289	26.172	ug/l	97
7) Trichlorofluoromethane	3.495	101	70325	20.749	ug/l	95
8) Diethyl Ether	3.959	74	21806	17.250	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	41544	17.866	ug/l	70
10) 1,1-Dichloroethene	4.342	96	37731	17.692	ug/l	96
11) Methyl Iodide	4.589	142	32794	13.579	ug/l	86
12) Methyl Acetate	5.018	43	44150m	22.546	ug/l	
13) Acrolein	4.177	56	27308	105.884	ug/l	100
14) Acrylonitrile	5.718	53	99998	102.587	ug/l	98
15) Acetone	4.436	58	21291	99.310	ug/l	95
16) Carbon Disulfide	4.712	76	105395	17.380	ug/l	97
17) Allyl chloride	5.024	41	48478	18.791	ug/l	92
18) Methylene Chloride	5.277	84	48523	19.760	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	41227	17.629	ug/l	90
20) Diisopropyl ether	6.671	45	126557	20.605	ug/l #	90
21) 1,1-Dichloroethane	6.571	63	81934	20.008	ug/l	94
22) cis-1,2-Dichloroethene	7.494	96	52878	18.724	ug/l	97
23) tert-Butyl Alcohol	5.518	59	36415	105.236	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	128467	19.261	ug/l #	92
25) Chloroform	7.965	83	91035	19.538	ug/l	97
26) Cyclohexane	8.259	56	58206	17.730	ug/l #	83
29) 1,1-Dichloropropene	8.371	75	58026	21.688	ug/l	98
30) 2-Butanone	7.483	43	130671	127.886	ug/l	98
31) 2,2-Dichloropropane	7.494	77	73885	22.171	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	81315	22.052	ug/l	99
33) Carbon Tetrachloride	8.359	117	68965	20.634	ug/l	99
34) Benzene	8.606	78	189204	21.953	ug/l	98
35) Methacrylonitrile	7.777	41	28846	24.924	ug/l	95
36) 1,2-Dichloroethane	8.665	62	69145	24.460	ug/l	100
37) Trichloroethene	9.353	130	46224	20.268	ug/l	90
38) Methylcyclohexane	9.600	83	62967	19.255	ug/l	97
39) 1,2-Dichloropropane	9.618	63	46752	23.252	ug/l	96
40) Dibromomethane	9.712	93	36002	22.478	ug/l	95
41) Bromodichloromethane	9.888	83	74683	22.866	ug/l	95
42) Vinyl Acetate	6.600	43	502392	118.029	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	59161	26.272	ug/l	99
44) Isopropyl Acetate	8.688	43	95702	25.364	ug/l	92
45) 1,4-Dioxane	9.700	88	20030	480.892	ug/l	97
46) Methyl methacrylate	9.682	41	41877	24.680	ug/l	87
47) n-amyl Acetate	12.494	43	80816	23.870	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	71319	22.920	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	75703	22.592	ug/l	91
50) 1,1,2-Trichloroethane	11.018	97	48391	22.564	ug/l	96
51) Ethyl methacrylate	10.876	69	64784	21.695	ug/l	92
52) 1,3-Dichloropropane	11.165	76	81232	23.109	ug/l	100
53) Dibromochloromethane	11.359	129	57105	22.291	ug/l	98
54) 1,2-Dibromoethane	11.471	107	46990	21.197	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	185760	126.678	ug/l	99
56) Bromoform	12.582	173	36847	22.494	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	299127	133.495	ug/l	91
59) 2-Hexanone	11.200	43	229201	136.201	ug/l	88
61) Tetrachloroethene	11.100	164	51955	21.519	ug/l	87
62) Toluene	10.629	91	207177	21.855	ug/l	99
64) Chlorobenzene	11.894	112	131630	21.898	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	49500	22.670	ug/l	96
66) Ethyl Benzene	11.965	91	217264	21.557	ug/l	94
67) m/p-Xylenes	12.071	106	175485	43.956	ug/l	94
68) o-Xylene	12.400	106	81655	21.545	ug/l	95
69) Styrene	12.412	104	137789	21.348	ug/l	99
70) Isopropylbenzene	12.694	105	211986	21.681	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	67555	26.450	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	62732m	26.530	ug/l	
73) Bromobenzene	12.982	156	53680	22.157	ug/l	98
74) n-propylbenzene	13.035	91	253943	21.698	ug/l	99
75) 2-Chlorotoluene	13.123	91	156739	22.479	ug/l	95
76) 1,3,5-Trimethylbenzene	13.176	105	178618	21.523	ug/l	96
77) t-1,4-Dichloro-2-butene	12.741	75	23461	23.958	ug/l	99
78) 4-Chlorotoluene	13.223	91	160327	23.183	ug/l	98
79) tert-butylbenzene	13.441	119	151176	21.412	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	184295	22.268	ug/l	95
81) sec-Butylbenzene	13.617	105	222510	21.853	ug/l	100
82) p-Isopropyltoluene	13.735	119	183911	21.537	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	106485	23.518	ug/l	95
84) 1,4-Dichlorobenzene	13.812	146	102804	23.455	ug/l	97
85) n-Butylbenzene	14.059	91	153952	21.403	ug/l	98
86) Hexachloroethane	14.335	117	36214	22.198	ug/l	90
87) 1,2-Dichlorobenzene	14.106	146	104499	24.247	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14824	26.624	ug/l	93
89) 1,2,4-Trichlorobenzene	15.847	180	53936	22.832	ug/l	98
90) Hexachlorobutadiene	15.506	225	21493	22.704	ug/l	99
91) Naphthalene	15.641	128	168740	22.218	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	53936	22.832	ug/l	98

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

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