

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
 Data File : VN079605.D
 Acq On : 18 Oct 2023 17:13
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/19/2023
 Supervised By : Mahesh Dadoda 10/20/2023

Quant Time: Oct 19 06:17:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	19847	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	142667	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	176595	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	83040	29.428	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.100%	
60) 4-Bromofluorobenzene	12.853	95	98252	30.424	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.400%	
63) Toluene-d8	10.571	98	232637	30.743	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.467%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	55928	19.432	ug/l	97
3) Chloromethane	2.365	50	68833	18.452	ug/l	97
4) Vinyl Chloride	2.518	62	77385	19.221	ug/l	97
5) Bromomethane	2.971	94	42152	16.886	ug/l	95
6) Chloroethane	3.124	64	53880	19.014	ug/l	94
7) Trichlorofluoromethane	3.501	101	97925	19.933	ug/l	98
8) Diethyl Ether	3.965	74	32644	18.334	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	55772	19.843	ug/l	97
10) 1,1-Dichloroethene	4.348	96	49800	18.622	ug/l	98
11) Methyl Iodide	4.595	142	57040	19.265	ug/l	98
12) Methyl Acetate	5.030	43	116146	18.016	ug/l	94
13) Acrolein	4.183	56	52625	98.750	ug/l	98
14) Acrylonitrile	5.724	53	146223	94.714	ug/l	99
15) Acetone	4.430	58	42508	86.918	ug/l	88
16) Carbon Disulfide	4.718	76	151209	18.543	ug/l	99
17) Allyl chloride	5.024	41	72739	17.642	ug/l	96
18) Methylene Chloride	5.289	84	65996	20.050	ug/l	97
19) trans-1,2-Dichloroethene	5.795	96	59230	19.798	ug/l	95
20) Diisopropyl ether	6.677	45	190695	19.506	ug/l	97
21) 1,1-Dichloroethane	6.577	63	116848	19.669	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	65549	19.022	ug/l	95
23) tert-Butyl Alcohol	5.524	59	36671m	71.033	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	167048	18.617	ug/l	100
25) Chloroform	7.971	83	119326	19.878	ug/l	92
26) Cyclohexane	8.265	56	81625	18.176	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	84379	20.239	ug/l	99
30) 2-Butanone	7.489	43	186041	89.020	ug/l	100
31) 2,2-Dichloropropane	7.494	77	92398	19.656	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	99159	20.010	ug/l	98
33) Carbon Tetrachloride	8.365	117	84681	20.093	ug/l	99
34) Benzene	8.612	78	260332	20.552	ug/l	99
35) Methacrylonitrile	7.788	41	42231	19.210	ug/l	94
36) 1,2-Dichloroethane	8.677	62	94144	20.815	ug/l	100
37) Trichloroethene	9.359	130	59706	20.164	ug/l	100
38) Methylcyclohexane	9.606	83	76976	19.176	ug/l	98
39) 1,2-Dichloropropane	9.630	63	67525	20.200	ug/l	99
40) Dibromomethane	9.712	93	45036	20.529	ug/l	100
41) Bromodichloromethane	9.894	83	94255	20.732	ug/l	98
42) Vinyl Acetate	6.612	43	509367	96.081	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	81532	20.747	ug/l	97
44) Isopropyl Acetate	8.694	43	122710	17.566	ug/l	96
45) 1,4-Dioxane	9.700	88	18690	341.791	ug/l	97
46) Methyl methacrylate	9.688	41	59939	19.340	ug/l	91
47) n-amyl Acetate	12.500	43	89276	17.707	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	87198	18.972	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	96762	19.253	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	62832	20.645	ug/l	95
51) Ethyl methacrylate	10.877	69	75787	18.049	ug/l	97
52) 1,3-Dichloropropane	11.165	76	108326	20.092	ug/l	100
53) Dibromochloromethane	11.365	129	62989	20.251	ug/l	99
54) 1,2-Dibromoethane	11.476	107	58208	19.387	ug/l	94
55) 2-Chloroethyl vinyl ether	10.165	63	135149	84.361	ug/l	98
56) Bromoform	12.576	173	41482	20.159	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	396461	96.252	ug/l	100
59) 2-Hexanone	11.200	43	273456	90.493	ug/l	99
61) Tetrachloroethene	11.106	164	50987	21.029	ug/l	97
62) Toluene	10.635	91	273171	20.240	ug/l	100
64) Chlorobenzene	11.894	112	153121	19.561	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	59647	20.004	ug/l	99
66) Ethyl Benzene	11.971	91	269780	19.400	ug/l	98
67) m/p-Xylenes	12.076	106	210771	40.980	ug/l	98
68) o-Xylene	12.406	106	96352	19.596	ug/l	97
69) Styrene	12.412	104	158343	20.286	ug/l	97
70) Isopropylbenzene	12.700	105	250167	19.826	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	89040	19.845	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	77372m	18.989	ug/l	
73) Bromobenzene	12.982	156	59745	20.155	ug/l	99
74) n-propylbenzene	13.041	91	298495	20.319	ug/l	100
75) 2-Chlorotoluene	13.129	91	180700	19.786	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	210492	20.406	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	22320	17.949	ug/l	95
78) 4-Chlorotoluene	13.223	91	171240	19.845	ug/l	99
79) tert-butylbenzene	13.441	119	163555	19.721	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	204220	20.432	ug/l	99
81) sec-Butylbenzene	13.618	105	240786	20.681	ug/l	100
82) p-Isopropyltoluene	13.735	119	185372	20.071	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	97865	20.078	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	89981	19.256	ug/l	99
85) n-Butylbenzene	14.059	91	139614	19.348	ug/l	98
86) Hexachloroethane	14.335	117	41207	20.638	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	96136	19.843	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13013	19.034	ug/l	94
89) 1,2,4-Trichlorobenzene	15.847	180	28442	16.656	ug/l	99
90) Hexachlorobutadiene	15.506	225	23882	19.744	ug/l	93
91) Naphthalene	15.647	128	55646	12.633	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	28442	16.656	ug/l	99

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

