

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041024\
 Data File : VN081684.D
 Acq On : 10 Apr 2024 16:02
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

04/11/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Apr 11 09:09:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:07:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	29804m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	224809	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	287358	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	114529	31.280	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.267%
60) 4-Bromofluorobenzene	12.847	95	168333	29.796	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.333%
63) Toluene-d8	10.565	98	350764	30.431	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.433%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	83255	19.991	ug/l	99
3) Chloromethane	2.365	50	74861	20.719	ug/l	98
4) Vinyl Chloride	2.518	62	69367	18.670	ug/l	93
5) Bromomethane	2.959	94	66767	21.219	ug/l	99
6) Chloroethane	3.124	64	55636	19.132	ug/l	97
7) Trichlorofluoromethane	3.500	101	151585	24.842	ug/l	99
8) Diethyl Ether	3.959	74	48331	21.244	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	87672	20.948	ug/l	96
10) 1,1-Dichloroethene	4.342	96	81541	22.300	ug/l	92
11) Methyl Iodide	4.595	142	71193	16.369	ug/l	98
12) Methyl Acetate	5.024	43	69929	19.864	ug/l	92
13) Acrolein	4.183	56	43012	92.670	ug/l	95
14) Acrylonitrile	5.718	53	176798	100.783	ug/l	98
15) Acetone	4.424	58	39159	101.243	ug/l	91
16) Carbon Disulfide	4.712	76	224092	20.534	ug/l	97
17) Allyl chloride	5.024	41	95891	20.654	ug/l	94
18) Methylene Chloride	5.283	84	91173	20.630	ug/l	92
19) trans-1,2-Dichloroethene	5.789	96	88458	21.017	ug/l	83
20) Diisopropyl ether	6.677	45	233889	21.090	ug/l	99
21) 1,1-Dichloroethane	6.571	63	152391	20.678	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	105198	20.698	ug/l	94
23) tert-Butyl Alcohol	5.512	59	66285	106.440	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	250045	20.831	ug/l	96
25) Chloroform	7.971	83	175033	20.874	ug/l	99
26) Cyclohexane	8.259	56	119186	20.174	ug/l #	81
29) 1,1-Dichloropropene	8.377	75	112043	18.957	ug/l	97
30) 2-Butanone	7.483	43	215785	95.600	ug/l #	96
31) 2,2-Dichloropropane	7.488	77	146542	19.906	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	159319	19.559	ug/l	100
33) Carbon Tetrachloride	8.365	117	140746	19.062	ug/l	95
34) Benzene	8.606	78	360282	18.923	ug/l	99
35) Methacrylonitrile	7.783	41	49432	19.335	ug/l	91
36) 1,2-Dichloroethane	8.671	62	118571	18.987	ug/l	98
37) Trichloroethene	9.353	130	93689	18.596	ug/l	92
38) Methylcyclohexane	9.606	83	138870	19.224	ug/l	94
39) 1,2-Dichloropropane	9.624	63	84816	19.095	ug/l	99
40) Dibromomethane	9.712	93	69783	19.723	ug/l	93
41) Bromodichloromethane	9.888	83	138187	19.153	ug/l #	97
42) Vinyl Acetate	6.606	43	908674	96.637	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	90712	18.179	ug/l	98
44) Isopropyl Acetate	8.688	43	153979	18.473	ug/l	98
45) 1,4-Dioxane	9.694	88	36034	391.623	ug/l	95
46) Methyl methacrylate	9.682	41	69665	18.586	ug/l	94
47) n-amyl Acetate	12.494	43	135986	18.182	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	131688	19.158	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	141145	19.067	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	91004	19.209	ug/l	97
51) Ethyl methacrylate	10.876	69	125123	18.968	ug/l	95
52) 1,3-Dichloropropane	11.165	76	150621	19.397	ug/l	96
53) Dibromochloromethane	11.359	129	108102	19.102	ug/l	96
54) 1,2-Dibromoethane	11.471	107	94381	19.273	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	298786	92.235	ug/l	98
56) Bromoform	12.582	173	67692	18.706	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	484353	98.013	ug/l	94
59) 2-Hexanone	11.200	43	361249	97.339	ug/l	94
61) Tetrachloroethene	11.106	164	103233	19.388	ug/l	93
62) Toluene	10.629	91	413659	19.787	ug/l	100
64) Chlorobenzene	11.894	112	261291	19.711	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	97393	20.225	ug/l	100
66) Ethyl Benzene	11.965	91	440283	19.808	ug/l	97
67) m/p-Xylenes	12.070	106	353584	40.160	ug/l	95
68) o-Xylene	12.400	106	165194	19.764	ug/l	97
69) Styrene	12.412	104	281181	19.753	ug/l	96
70) Isopropylbenzene	12.694	105	429217	19.905	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	112402	19.955	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	106726m	13.435	ug/l	
73) Bromobenzene	12.982	156	105331	19.713	ug/l	89
74) n-propylbenzene	13.035	91	501326	19.412	ug/l	97
75) 2-Chlorotoluene	13.129	91	306611	19.939	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	368260	20.121	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	41527	19.229	ug/l	87
78) 4-Chlorotoluene	13.223	91	306427	20.091	ug/l	94
79) tert-butylbenzene	13.441	119	307370	19.740	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	365393	20.019	ug/l	96
81) sec-Butylbenzene	13.617	105	443339	19.743	ug/l	99
82) p-Isopropyltoluene	13.729	119	372809	19.796	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	196419	19.670	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	194530	20.125	ug/l	97
85) n-Butylbenzene	14.059	91	309685	19.522	ug/l	99
86) Hexachloroethane	14.335	117	69762	19.390	ug/l	84
87) 1,2-Dichlorobenzene	14.106	146	191468	20.144	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	22886	18.638	ug/l	93
89) 1,2,4-Trichlorobenzene	15.847	180	102741	19.586	ug/l	99
90) Hexachlorobutadiene	15.506	225	40710	19.500	ug/l	97
91) Naphthalene	15.641	128	308250	18.404	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	102741	19.721	ug/l	99

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

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