

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090624\
 Data File : VN083693.D
 Acq On : 06 Sep 2024 13:10
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2024
 Supervised By : Mahesh Dadoda 09/09/2024

Quant Time: Sep 06 23:33:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:27:49 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29544	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	176233	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	158496	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	81774	30.281	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.933%			
60) 4-Bromofluorobenzene	12.847	95	79655	29.160	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.200%			
63) Toluene-d8	10.565	98	219528	29.913	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.700%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	39089	19.757	ug/l	99
3) Chloromethane	2.359	50	40384	19.645	ug/l	97
4) Vinyl Chloride	2.512	62	41377	19.579	ug/l	96
5) Bromomethane	2.906	94	23544	19.940	ug/l	96
6) Chloroethane	3.083	64	27107	19.155	ug/l	91
7) Trichlorofluoromethane	3.465	101	68040	19.204	ug/l	91
8) Diethyl Ether	3.953	74	23371	19.413	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.359	101	36179	19.010	ug/l	95
10) 1,1-Dichloroethene	4.324	96	35100	19.115	ug/l	87
11) Methyl Iodide	4.583	142	48017	19.252	ug/l	96
12) Methyl Acetate	5.024	43	40812	18.430	ug/l #	83
13) Acrolein	4.177	56	34448	106.590	ug/l	99
14) Acrylonitrile	5.712	53	85727	95.660	ug/l	98
15) Acetone	4.430	58	26817	90.209	ug/l	74
16) Carbon Disulfide	4.700	76	100907	19.445	ug/l	100
17) Allyl chloride	5.012	41	61310	19.019	ug/l	88
18) Methylene Chloride	5.265	84	39051	19.439	ug/l	91
19) trans-1,2-Dichloroethene	5.777	96	37248	19.572	ug/l	90
20) Diisopropyl ether	6.671	45	121252	18.646	ug/l	96
21) 1,1-Dichloroethane	6.565	63	71266	19.195	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	45278	19.548	ug/l	94
23) tert-Butyl Alcohol	5.536	59	32406	98.542	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	127165	19.488	ug/l #	80
25) Chloroform	7.965	83	76545	19.454	ug/l	96
26) Cyclohexane	8.253	56	62769	19.195	ug/l #	89
29) 1,1-Dichloropropene	8.365	75	52691	18.850	ug/l	98
30) 2-Butanone	7.483	43	122833	93.220	ug/l	95
31) 2,2-Dichloropropane	7.488	77	66330	18.612	ug/l #	81
32) 1,1,1-Trichloroethane	8.165	97	70442	18.870	ug/l	98
33) Carbon Tetrachloride	8.359	117	60200	18.621	ug/l	98
34) Benzene	8.606	78	161311	19.233	ug/l	97
35) Methacrylonitrile	7.777	41	28693	19.371	ug/l	93
36) 1,2-Dichloroethane	8.671	62	59759	18.953	ug/l #	94
37) Trichloroethene	9.353	130	36370	18.466	ug/l	92
38) Methylcyclohexane	9.600	83	61729	18.445	ug/l	95
39) 1,2-Dichloropropane	9.624	63	38032	18.841	ug/l	96
40) Dibromomethane	9.712	93	28687	19.436	ug/l	93
41) Bromodichloromethane	9.888	83	58417	18.613	ug/l	98
42) Vinyl Acetate	6.600	43	474357	87.559	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	50568	19.067	ug/l	98
44) Isopropyl Acetate	8.688	43	86297	18.813	ug/l	92
45) 1,4-Dioxane	9.700	88	14381	401.944	ug/l #	91
46) Methyl methacrylate	9.682	41	40975	18.454	ug/l	82
47) n-amyl Acetate	12.494	43	75311	18.534	ug/l	90
48) t-1,3-Dichloropropene	10.835	75	61220	18.544	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	63240	18.419	ug/l #	83
50) 1,1,2-Trichloroethane	11.018	97	35468	18.885	ug/l	94
51) Ethyl methacrylate	10.871	69	61759	19.248	ug/l	74
52) 1,3-Dichloropropane	11.159	76	64193	18.927	ug/l	98
53) Dibromochloromethane	11.359	129	41381	18.370	ug/l	99
54) 1,2-Dibromoethane	11.465	107	36461	18.766	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	134587	105.251	ug/l	98
56) Bromoform	12.576	173	26256	18.346	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	241862	96.239	ug/l #	88
59) 2-Hexanone	11.194	43	179424	94.485	ug/l	88
61) Tetrachloroethene	11.100	164	30715	18.311	ug/l	92
62) Toluene	10.629	91	172549	18.940	ug/l	100
64) Chlorobenzene	11.888	112	107119	18.991	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	36844	18.751	ug/l	98
66) Ethyl Benzene	11.965	91	190134	18.353	ug/l	99
67) m/p-Xylenes	12.070	106	142126	37.289	ug/l	96
68) o-Xylene	12.394	106	70297	19.056	ug/l	97
69) Styrene	12.412	104	116436	18.681	ug/l	99
70) Isopropylbenzene	12.694	105	179621	18.451	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	51111	19.223	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	44699m	19.212	ug/l	
73) Bromobenzene	12.976	156	41815	18.701	ug/l	97
74) n-propylbenzene	13.035	91	210183	18.444	ug/l	100
75) 2-Chlorotoluene	13.123	91	132707	18.658	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	153570	18.885	ug/l	97
77) t-1,4-Dichloro-2-butene	12.735	75	18032	18.300	ug/l	88
78) 4-Chlorotoluene	13.223	91	133498	18.508	ug/l	98
79) tert-butylbenzene	13.435	119	135515	19.057	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	152609	18.571	ug/l	100
81) sec-Butylbenzene	13.617	105	176163	18.135	ug/l	99
82) p-Isopropyltoluene	13.729	119	148197	18.132	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	79779	18.538	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	79934	18.579	ug/l	99
85) n-Butylbenzene	14.053	91	127684	17.704	ug/l	97
86) Hexachloroethane	14.335	117	28237	18.231	ug/l	90
87) 1,2-Dichlorobenzene	14.106	146	77004	18.437	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10937	18.717	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	41851	18.290	ug/l	99
90) Hexachlorobutadiene	15.500	225	16856	17.798	ug/l	95
91) Naphthalene	15.641	128	137355	18.362	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	41851	18.290	ug/l	99

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

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