

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050624\
 Data File : VN082013.D
 Acq On : 06 May 2024 17:20
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/07/2024
 Supervised By : Semsettin Yesilyurt 05/07/2024

Quant Time: May 07 01:12:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	31673	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	196351	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	174635	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83351	31.432	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.767%			
60) 4-Bromofluorobenzene	12.853	95	83474	28.722	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.733%			
63) Toluene-d8	10.571	98	253572	30.575	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	32357	17.997	ug/l	93
3) Chloromethane	2.359	50	42766	20.511	ug/l	100
4) Vinyl Chloride	2.518	62	41468	21.053	ug/l	93
5) Bromomethane	2.959	94	18671	18.166	ug/l	99
6) Chloroethane	3.124	64	32651	29.274	ug/l	93
7) Trichlorofluoromethane	3.501	101	55861	19.381	ug/l	90
8) Diethyl Ether	3.965	74	28626	20.517	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.371	101	39181	19.830	ug/l	68
10) 1,1-Dichloroethene	4.342	96	36677	18.974	ug/l #	75
11) Methyl Iodide	4.583	142	26759m	15.147	ug/l	
12) Methyl Acetate	5.030	43	52793	21.811	ug/l #	72
13) Acrolein	4.183	56	19834m	38.555	ug/l	
14) Acrylonitrile	5.718	53	115277	104.351	ug/l	97
15) Acetone	4.424	58	25303	102.215	ug/l	97
16) Carbon Disulfide	4.712	76	96394	17.999	ug/l	100
17) Allyl chloride	5.030	41	66256	19.522	ug/l	89
18) Methylene Chloride	5.277	84	46143m	20.979	ug/l	
19) trans-1,2-Dichloroethene	5.789	96	38552	19.160	ug/l	86
20) Diisopropyl ether	6.671	45	157805	21.015	ug/l	91
21) 1,1-Dichloroethane	6.565	63	86161	21.670	ug/l	95
22) cis-1,2-Dichloroethene	7.489	96	50670	20.665	ug/l	94
23) tert-Butyl Alcohol	5.524	59	41009	90.122	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	137487	19.728	ug/l #	85
25) Chloroform	7.965	83	80322	20.998	ug/l	98
26) Cyclohexane	8.259	56	69005	20.070	ug/l #	85
29) 1,1-Dichloropropene	8.371	75	58137	19.888	ug/l	95
30) 2-Butanone	7.483	43	144209	95.704	ug/l	94
31) 2,2-Dichloropropane	7.489	77	67122	22.407	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	62237	18.512	ug/l #	93
33) Carbon Tetrachloride	8.365	117	51223	18.774	ug/l	97
34) Benzene	8.612	78	185443	19.885	ug/l	98
35) Methacrylonitrile	7.777	41	36729	19.267	ug/l	88
36) 1,2-Dichloroethane	8.671	62	60843	19.435	ug/l	97
37) Trichloroethene	9.353	130	38299	16.767	ug/l	93
38) Methylcyclohexane	9.600	83	68481	19.393	ug/l	97
39) 1,2-Dichloropropane	9.624	63	50830	21.242	ug/l	99
40) Dibromomethane	9.712	93	29368	19.105	ug/l	87
41) Bromodichloromethane	9.888	83	65198	19.843	ug/l #	97
42) Vinyl Acetate	6.600	43	625091	97.464	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	62947	19.160	ug/l	100
44) Isopropyl Acetate	8.688	43	111563	19.127	ug/l	92
45) 1,4-Dioxane	9.694	88	16784	358.820	ug/l #	95
46) Methyl methacrylate	9.688	41	51549	19.345	ug/l	80
47) n-amyl Acetate	12.494	43	100234	19.054	ug/l	90
48) t-1,3-Dichloropropene	10.841	75	66428	18.644	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	76012	20.178	ug/l #	84
50) 1,1,2-Trichloroethane	11.018	97	42567	20.411	ug/l	97
51) Ethyl methacrylate	10.877	69	76057	19.323	ug/l	76
52) 1,3-Dichloropropane	11.165	76	75148	19.613	ug/l	100
53) Dibromochloromethane	11.365	129	41523	18.299	ug/l	97
54) 1,2-Dibromoethane	11.471	107	40839	19.635	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	189055	96.051	ug/l	95
56) Bromoform	12.582	173	23230	16.821	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	323419	95.379	ug/l #	87
59) 2-Hexanone	11.200	43	239063m	95.087	ug/l	
61) Tetrachloroethene	11.106	164	30113	15.540	ug/l	93
62) Toluene	10.630	91	191525	19.492	ug/l	100
64) Chlorobenzene	11.894	112	116167	19.329	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	36573	18.593	ug/l	93
66) Ethyl Benzene	11.965	91	212518	19.731	ug/l	98
67) m/p-Xylenes	12.071	106	153539	38.449	ug/l	99
68) o-Xylene	12.400	106	73449	18.590	ug/l	98
69) Styrene	12.412	104	126747	19.111	ug/l	98
70) Isopropylbenzene	12.694	105	190003	18.935	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	62154	21.524	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	51499m	19.076	ug/l	
73) Bromobenzene	12.982	156	40166	18.700	ug/l	80
74) n-propylbenzene	13.035	91	233359	19.712	ug/l	98
75) 2-Chlorotoluene	13.129	91	142352	19.437	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	155240	19.113	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22867	19.031	ug/l	90
78) 4-Chlorotoluene	13.223	91	135046	18.822	ug/l	100
79) tert-butylbenzene	13.441	119	133730	19.123	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	154831	18.978	ug/l	98
81) sec-Butylbenzene	13.618	105	192515	19.639	ug/l	97
82) p-Isopropyltoluene	13.729	119	151234	19.511	ug/l	95
83) 1,3-Dichlorobenzene	13.735	146	71984	18.612	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	70471	18.128	ug/l	96
85) n-Butylbenzene	14.059	91	142434	20.117	ug/l	96
86) Hexachloroethane	14.335	117	26358	17.054	ug/l	77
87) 1,2-Dichlorobenzene	14.106	146	73212	19.006	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10745	16.583	ug/l	90
89) 1,2,4-Trichlorobenzene	15.841	180	35937	16.943	ug/l	99
90) Hexachlorobutadiene	15.500	225	11851	15.086	ug/l	90
91) Naphthalene	15.641	128	144339	17.901	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	35937	16.943	ug/l	99

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

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