

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041124\
 Data File : VN081704.D
 Acq On : 11 Apr 2024 18:13
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/12/2024
 Supervised By : Mahesh Dadoda 04/12/2024

Quant Time: Apr 12 06:04:42 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	7.818	128	24352	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	178533	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	233082	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	101135	33.806	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.700%#			
60) 4-Bromofluorobenzene	12.847	95	140808	30.727	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.433%			
63) Toluene-d8	10.565	98	283839	30.359	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	71832	21.110	ug/l	100
3) Chloromethane	2.359	50	72224	24.465	ug/l	98
4) Vinyl Chloride	2.518	62	80063	26.374	ug/l	98
5) Bromomethane	2.965	94	42536	16.545	ug/l	92
6) Chloroethane	3.130	64	58113	24.459	ug/l	100
7) Trichlorofluoromethane	3.501	101	116957	23.467	ug/l	100
8) Diethyl Ether	3.959	74	35300	18.990	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	65680m	19.209	ug/l	
10) 1,1-Dichloroethene	4.342	96	61183	19.511	ug/l	92
11) Methyl Iodide	4.589	142	34162	9.620	ug/l	83
12) Methyl Acetate	5.030	43	57431	19.945	ug/l	98
13) Acrolein	4.177	56	34100	89.918	ug/l	96
14) Acrylonitrile	5.724	53	138994	96.973	ug/l	95
15) Acetone	4.436	58	33511	106.301	ug/l	98
16) Carbon Disulfide	4.712	76	174827	19.606	ug/l #	94
17) Allyl chloride	5.018	41	72479	19.106	ug/l	91
18) Methylene Chloride	5.283	84	72425	20.057	ug/l	94
19) trans-1,2-Dichloroethene	5.795	96	65266m	18.979	ug/l	
20) Diisopropyl ether	6.677	45	180982	20.039	ug/l	97
21) 1,1-Dichloroethane	6.571	63	121058	20.104	ug/l #	94
22) cis-1,2-Dichloroethene	7.494	96	79745	19.203	ug/l	96
23) tert-Butyl Alcohol	5.524	59	48527	95.372	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	195005	19.883	ug/l	95
25) Chloroform	7.971	83	141829	20.701	ug/l	99
26) Cyclohexane	8.259	56	90912	18.833	ug/l #	85
29) 1,1-Dichloropropene	8.377	75	89561	19.081	ug/l	97
30) 2-Butanone	7.489	43	171454	95.648	ug/l #	97
31) 2,2-Dichloropropane	7.494	77	110748	18.943	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	127356	19.687	ug/l	99
33) Carbon Tetrachloride	8.365	117	111308	18.983	ug/l	93
34) Benzene	8.606	78	289126	19.122	ug/l	98
35) Methacrylonitrile	7.777	41	39613	19.510	ug/l #	89
36) 1,2-Dichloroethane	8.671	62	102976	20.764	ug/l	98
37) Trichloroethene	9.353	130	73530	18.378	ug/l	98
38) Methylcyclohexane	9.600	83	98501	17.170	ug/l	98
39) 1,2-Dichloropropane	9.624	63	70471	19.978	ug/l	98
40) Dibromomethane	9.712	93	55340	19.695	ug/l	95
41) Bromodichloromethane	9.888	83	113653	19.835	ug/l	98
42) Vinyl Acetate	6.606	43	714671	95.705	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
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Reviewed By : John Carlone 04/12/2024
 Supervised By : Mahesh Dadoda 04/12/2024

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	75244	19.046	ug/l	96
44) Isopropyl Acetate	8.688	43	127808	19.308	ug/l	96
45) 1,4-Dioxane	9.700	88	28497	389.987	ug/l	95
46) Methyl methacrylate	9.682	41	57601	19.350	ug/l	93
47) n-amyl Acetate	12.494	43	116110	19.548	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	100091	18.335	ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	111841	19.025	ug/l #	92
50) 1,1,2-Trichloroethane	11.018	97	74499	19.801	ug/l	96
51) Ethyl methacrylate	10.877	69	96758	18.470	ug/l	96
52) 1,3-Dichloropropane	11.165	76	118281	19.180	ug/l	98
53) Dibromochloromethane	11.359	129	85936	19.121	ug/l	97
54) 1,2-Dibromoethane	11.471	107	75113	19.314	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	242107	94.111	ug/l	98
56) Bromoform	12.582	173	53503	18.617	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	403728	100.722	ug/l	93
59) 2-Hexanone	11.200	43	292414	97.139	ug/l	93
61) Tetrachloroethene	11.100	164	84332	19.526	ug/l	83
62) Toluene	10.635	91	327510	19.314	ug/l	100
64) Chlorobenzene	11.894	112	205524	19.114	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	73647	18.855	ug/l	94
66) Ethyl Benzene	11.965	91	338153	18.756	ug/l	98
67) m/p-Xylenes	12.071	106	273701	38.326	ug/l	95
68) o-Xylene	12.400	106	126485	18.657	ug/l	100
69) Styrene	12.412	104	216943	18.789	ug/l	96
70) Isopropylbenzene	12.700	105	330935	18.921	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	93496	20.464	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	77151m	18.240	ug/l	
73) Bromobenzene	12.982	156	81101	18.713	ug/l	95
74) n-propylbenzene	13.035	91	394562	18.846	ug/l	99
75) 2-Chlorotoluene	13.129	91	243342	19.510	ug/l	95
76) 1,3,5-Trimethylbenzene	13.176	105	287907	19.394	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	29987	17.119	ug/l	90
78) 4-Chlorotoluene	13.223	91	245164	19.817	ug/l	96
79) tert-butylbenzene	13.441	119	236663	18.739	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	284794	19.236	ug/l	98
81) sec-Butylbenzene	13.618	105	353203	19.392	ug/l	100
82) p-Isopropyltoluene	13.729	119	284469	18.622	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	155006	19.138	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	152332	19.429	ug/l	97
85) n-Butylbenzene	14.059	91	233490	18.146	ug/l	99
86) Hexachloroethane	14.335	117	53071	18.185	ug/l	87
87) 1,2-Dichlorobenzene	14.112	146	154658	20.060	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	19403	19.481	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	79241	18.752	ug/l	98
90) Hexachlorobutadiene	15.506	225	31802	18.780	ug/l	98
91) Naphthalene	15.647	128	254607	18.741	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	79241	18.752	ug/l	98

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

