

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042924\
 Data File : VN081902.D
 Acq On : 29 Apr 2024 09:30
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/30/2024
 Supervised By : Mahesh Dadoda 04/30/2024

Quant Time: Apr 30 04:31:04 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	7.812	128	50446	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	305577	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	268762	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	125664	29.753	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.167%		
60) 4-Bromofluorobenzene	12.847	95	132673	29.662	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.867%		
63) Toluene-d8	10.565	98	378565	29.660	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.867%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	53500	18.683	ug/l	96
3) Chloromethane	2.365	50	60963	18.357	ug/l	96
4) Vinyl Chloride	2.518	62	57557	18.347	ug/l	99
5) Bromomethane	2.971	94	30235	18.470	ug/l	98
6) Chloroethane	3.130	64	32410	18.244	ug/l	94
7) Trichlorofluoromethane	3.501	101	85220	18.564	ug/l	100
8) Diethyl Ether	3.959	74	40986	18.444	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.377	101	55962	17.783	ug/l	92
10) 1,1-Dichloroethene	4.342	96	57026	18.522	ug/l #	93
11) Methyl Iodide	4.595	142	49497	17.591	ug/l	79
12) Methyl Acetate	5.030	43	70504m	18.288	ug/l	
13) Acrolein	4.183	56	77569	94.672	ug/l	97
14) Acrylonitrile	5.712	53	154572	87.851	ug/l	98
15) Acetone	4.424	58	35828	90.872	ug/l	100
16) Carbon Disulfide	4.712	76	149325	17.506	ug/l	97
17) Allyl chloride	5.018	41	102693	18.998	ug/l	84
18) Methylene Chloride	5.271	84	63944	18.254	ug/l	92
19) trans-1,2-Dichloroethene	5.789	96	57316	17.885	ug/l	99
20) Diisopropyl ether	6.677	45	206504	17.267	ug/l	94
21) 1,1-Dichloroethane	6.565	63	116226	18.353	ug/l	93
22) cis-1,2-Dichloroethene	7.494	96	72187m	18.484	ug/l	
23) tert-Butyl Alcohol	5.512	59	66288	91.464	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	201899m	18.189	ug/l	
25) Chloroform	7.965	83	112850	18.523	ug/l	94
26) Cyclohexane	8.259	56	104952	19.165	ug/l #	90
29) 1,1-Dichloropropene	8.371	75	81503	17.916	ug/l	99
30) 2-Butanone	7.483	43	204129	87.047	ug/l	94
31) 2,2-Dichloropropane	7.494	77	103060	22.106	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	94500	18.061	ug/l	94
33) Carbon Tetrachloride	8.365	117	74903	17.640	ug/l	97
34) Benzene	8.606	78	259687	17.893	ug/l	97
35) Methacrylonitrile	7.777	41	48592	16.379	ug/l	94
36) 1,2-Dichloroethane	8.671	62	87475	17.955	ug/l	95
37) Trichloroethene	9.353	130	58663	16.503	ug/l	86
38) Methylcyclohexane	9.600	83	101382	18.448	ug/l	95
39) 1,2-Dichloropropane	9.624	63	68282	18.336	ug/l	98
40) Dibromomethane	9.712	93	42879	17.923	ug/l	92
41) Bromodichloromethane	9.888	83	89422	17.488	ug/l	99
42) Vinyl Acetate	6.606	43	906055	90.776	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	79428	15.535	ug/l	95
44) Isopropyl Acetate	8.688	43	157522	17.354	ug/l	92
45) 1,4-Dioxane	9.694	88	26910	369.664	ug/l #	91
46) Methyl methacrylate	9.683	41	71768	17.306	ug/l	84
47) n-amyl Acetate	12.494	43	142929m	17.458	ug/l	
48) t-1,3-Dichloropropene	10.835	75	101274	18.264	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	107920	18.408	ug/l #	83
50) 1,1,2-Trichloroethane	11.018	97	57865	17.828	ug/l	98
51) Ethyl methacrylate	10.877	69	110997	18.120	ug/l	81
52) 1,3-Dichloropropane	11.165	76	107387	18.009	ug/l	97
53) Dibromochloromethane	11.365	129	64159	18.169	ug/l	98
54) 1,2-Dibromoethane	11.471	107	58613	18.107	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	283568	92.572	ug/l	96
56) Bromoform	12.576	173	39995	18.609	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	450781	86.381	ug/l #	87
59) 2-Hexanone	11.194	43	340790	88.076	ug/l #	87
61) Tetrachloroethene	11.106	164	56082	18.806	ug/l	94
62) Toluene	10.630	91	267436	17.685	ug/l	97
64) Chlorobenzene	11.894	112	166228	17.972	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	54695	18.067	ug/l	95
66) Ethyl Benzene	11.965	91	298526	18.010	ug/l	98
67) m/p-Xylenes	12.071	106	221971	36.118	ug/l	99
68) o-Xylene	12.400	106	110788	18.220	ug/l	100
69) Styrene	12.412	104	184892	18.114	ug/l	98
70) Isopropylbenzene	12.694	105	281581	18.234	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	77786	17.504	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	83619	20.126	ug/l	95
73) Bromobenzene	12.982	156	60156	18.198	ug/l	87
74) n-propylbenzene	13.035	91	335214	18.399	ug/l	99
75) 2-Chlorotoluene	13.129	91	202665	17.981	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	229273	18.342	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	37967	20.531	ug/l	94
78) 4-Chlorotoluene	13.224	91	198078	17.939	ug/l	100
79) tert-butylbenzene	13.441	119	193726	18.000	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	220111	17.531	ug/l	97
81) sec-Butylbenzene	13.618	105	269907	17.891	ug/l	99
82) p-Isopropyltoluene	13.729	119	221100	18.534	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	110328	18.535	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	107981	18.049	ug/l	99
85) n-Butylbenzene	14.059	91	201778	18.517	ug/l	98
86) Hexachloroethane	14.335	117	43179	18.153	ug/l	83
87) 1,2-Dichlorobenzene	14.106	146	108950	18.378	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	16421	16.467	ug/l	91
89) 1,2,4-Trichlorobenzene	15.841	180	57616	17.650	ug/l	99
90) Hexachlorobutadiene	15.506	225	21728	17.972	ug/l	98
91) Naphthalene	15.641	128	213249	17.185	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	57616	17.650	ug/l	99

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

