

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074889.D
 Acq On : 12 Oct 2022 21:10
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/13/2022
 Supervised By : Mahesh Dadoda 10/14/2022

Quant Time: Oct 13 08:04:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:52:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	72579	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	408898	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	383035	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	211646	31.148	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.833%
60) 4-Bromofluorobenzene	12.847	95	181335	26.696	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.000%
63) Toluene-d8	10.571	98	656242	29.685	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.967%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.148	85	78887	19.573	ug/l	94
3) Chloromethane	2.383	50	137019	21.021	ug/l	96
4) Vinyl Chloride	2.530	62	193152	20.123	ug/l	98
5) Bromomethane	2.959	94	147455	19.376	ug/l	98
6) Chloroethane	3.136	64	141270	19.625	ug/l	97
7) Trichlorofluoromethane	3.506	101	150149	20.984	ug/l #	83
8) Diethyl Ether	3.983	74	72551	21.743	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.395	101	95188	21.139	ug/l	87
10) 1,1-Dichloroethene	4.365	96	91929	20.755	ug/l	96
11) Methyl Iodide	4.612	142	107929	19.520	ug/l	97
12) Methyl Acetate	5.047	43	207113	19.399	ug/l	95
13) Acrolein	4.200	56	156295	103.612	ug/l #	51
14) Acrylonitrile	5.747	53	408515	102.595	ug/l	98
15) Acetone	4.453	58	110532	101.284	ug/l	90
16) Carbon Disulfide	4.730	76	218966	19.242	ug/l	98
17) Allyl chloride	5.042	41	166573	18.889	ug/l	96
18) Methylene Chloride	5.295	84	117158	20.398	ug/l	96
19) trans-1,2-Dichloroethene	5.806	96	93403	19.210	ug/l	93
20) Diisopropyl ether	6.689	45	418178	20.313	ug/l	94
21) 1,1-Dichloroethane	6.589	63	207936	19.853	ug/l	98
22) cis-1,2-Dichloroethene	7.500	96	124587	20.462	ug/l	98
23) tert-Butyl Alcohol	5.559	59	156231	93.117	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	372305	20.126	ug/l	99
25) Chloroform	7.977	83	206858	19.889	ug/l	98
26) Cyclohexane	8.265	56	176273	19.160	ug/l #	95
29) 1,1-Dichloropropene	8.383	75	143200	19.409	ug/l	98
30) 2-Butanone	7.500	43	571703	97.119	ug/l	98
31) 2,2-Dichloropropane	7.506	77	156975m	17.382	ug/l	
32) 1,1,1-Trichloroethane	8.183	97	168675	19.064	ug/l #	76
33) Carbon Tetrachloride	8.371	117	144245	19.852	ug/l	91
34) Benzene	8.618	78	487668	19.997	ug/l #	87
35) Methacrylonitrile	7.788	41	106606	17.621	ug/l	93
36) 1,2-Dichloroethane	8.683	62	167426	20.616	ug/l #	91
37) Trichloroethene	9.359	130	99292	19.577	ug/l	97
38) Methylcyclohexane	9.606	83	172015	19.192	ug/l	98
39) 1,2-Dichloropropane	9.630	63	131183	20.750	ug/l	98
40) Dibromomethane	9.712	93	87059	20.781	ug/l	92
41) Bromodichloromethane	9.894	83	165971	20.342	ug/l #	93
42) Vinyl Acetate	6.624	43	1844658m	105.197	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074889.D
 Acq On : 12 Oct 2022 21:10
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/13/2022
 Supervised By : Mahesh Dadoda 10/14/2022

Quant Time: Oct 13 08:04:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:52:24 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	237678	20.767	ug/l	96
44) Isopropyl Acetate	8.700	43	360444	20.366	ug/l	96
45) 1,4-Dioxane	9.700	88	61075	376.325	ug/l #	90
46) Methyl methacrylate	9.682	41	151221	19.728	ug/l	90
47) n-amyl Acetate	12.494	43	302131	19.510	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	178281	19.045	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	186260	18.764	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	116451	18.889	ug/l #	94
51) Ethyl methacrylate	10.877	69	200800	19.154	ug/l	94
52) 1,3-Dichloropropane	11.165	76	212081	19.931	ug/l	99
53) Dibromochloromethane	11.359	129	114566	18.968	ug/l	99
54) 1,2-Dibromoethane	11.476	107	122502	20.682	ug/l	93
55) 2-Chloroethyl vinyl ether	10.165	63	352944	86.071	ug/l	99
56) Bromoform	12.582	173	76070	17.477	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	1184903	99.468	ug/l	97
59) 2-Hexanone	11.200	43	891371	97.228	ug/l	98
61) Tetrachloroethene	11.100	164	74782	18.313	ug/l #	80
62) Toluene	10.635	91	520844	19.682	ug/l	100
64) Chlorobenzene	11.894	112	290291	19.299	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	108727	19.191	ug/l	96
66) Ethyl Benzene	11.965	91	560619	19.482	ug/l	100
67) m/p-Xylenes	12.076	106	422773	39.108	ug/l	99
68) o-Xylene	12.400	106	211673	19.263	ug/l	96
69) Styrene	12.418	104	333410	18.538	ug/l	99
70) Isopropylbenzene	12.700	105	543702	19.185	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	214718	20.254	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	152339m	17.104	ug/l	
73) Bromobenzene	12.982	156	119780	20.169	ug/l	86
74) n-propylbenzene	13.035	91	616145	18.647	ug/l	98
75) 2-Chlorotoluene	13.129	91	360745	18.662	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	442603	19.218	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	58822	15.896	ug/l	97
78) 4-Chlorotoluene	13.223	91	347340	18.829	ug/l	97
79) tert-butylbenzene	13.441	119	389754	19.025	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	425204	18.349	ug/l	96
81) sec-Butylbenzene	13.618	105	536855	18.234	ug/l	97
82) p-Isopropyltoluene	13.729	119	429114	18.343	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	204754	17.669	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	207988	18.686	ug/l	98
85) n-Butylbenzene	14.059	91	351095	17.002	ug/l	98
86) Hexachloroethane	14.335	117	87984	19.204	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	211260	18.361	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	38596	18.038	ug/l	98
89) 1,2,4-Trichlorobenzene	15.394	180	89205	16.976	ug/l	97
90) Hexachlorobutadiene	15.500	225	41876	16.344	ug/l	92
91) Naphthalene	15.641	128	399462	19.158	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	98932	17.997	ug/l	95

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

