

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112822\
 Data File : VX033091.D
 Acq On : 28 Nov 2022 15:10
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/29/2022
 Supervised By : Mahesh Dadoda 11/29/2022

Quant Time: Nov 29 03:44:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	12893	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	90449	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	10.055	117	99588	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	37290	29.980	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.933%		
60) 4-Bromofluorobenzene	11.079	95	57117	29.983	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.933%		
63) Toluene-d8	8.647	98	100432	29.883	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.600%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	20553	18.012	ug/l	96
3) Chloromethane	1.294	50	21223	18.743	ug/l	98
4) Vinyl Chloride	1.374	62	25218	19.696	ug/l	98
5) Bromomethane	1.617	94	16100	14.164	ug/l	98
6) Chloroethane	1.691	64	18406	18.201	ug/l	93
7) Trichlorofluoromethane	1.892	101	49605	20.098	ug/l	99
8) Diethyl Ether	2.130	74	15232	19.088	ug/l	72
9) 1,1,2-Trichlorotrifluo...	2.331	101	26175	19.937	ug/l	97
10) 1,1-Dichloroethene	2.319	96	24428	19.476	ug/l	94
11) Methyl Iodide	2.453	142	20056	14.874	ug/l	99
12) Methyl Acetate	2.703	43	33432	17.994	ug/l	89
13) Acrolein	2.239	56	24395	98.463	ug/l	95
14) Acrylonitrile	3.068	53	60887	91.417	ug/l	99
15) Acetone	2.398	58	16765	96.800	ug/l	83
16) Carbon Disulfide	2.514	76	62061	19.877	ug/l	100
17) Allyl chloride	2.666	41	37723	18.929	ug/l	88
18) Methylene Chloride	2.788	84	27008	18.672	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	26446	19.141	ug/l	# 83
20) Diisopropyl ether	3.757	45	82162	18.386	ug/l	92
21) 1,1-Dichloroethane	3.611	63	46982	18.728	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	30593	18.964	ug/l	88
23) tert-Butyl Alcohol	3.007	59	25103m	116.079	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	83375	18.564	ug/l	# 91
25) Chloroform	5.092	83	53034	18.955	ug/l	98
26) Cyclohexane	5.470	56	41717	19.042	ug/l	# 84
29) 1,1-Dichloropropene	5.696	75	38217	19.051	ug/l	96
30) 2-Butanone	4.562	43	84718	90.574	ug/l	91
31) 2,2-Dichloropropane	4.477	77	38518	22.452	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	47976	19.013	ug/l	96
33) Carbon Tetrachloride	5.672	117	43171	19.486	ug/l	98
34) Benzene	6.037	78	107466	19.013	ug/l	# 97
35) Methacrylonitrile	4.916	41	19261	18.182	ug/l	90
36) 1,2-Dichloroethane	6.086	62	43761	18.807	ug/l	# 93
37) Trichloroethene	7.123	130	30562	19.328	ug/l	92
38) Methylcyclohexane	7.379	83	43626	19.410	ug/l	88
39) 1,2-Dichloropropane	7.433	63	27401	19.152	ug/l	89
40) Dibromomethane	7.580	93	21064	19.284	ug/l	98
41) Bromodichloromethane	7.824	83	40675	19.536	ug/l	94
42) Vinyl Acetate	3.721	43	328816	91.488	ug/l	# 91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	34026	18.084	ug/l #	90
44) Isopropyl Acetate	6.336	43	55698	17.664	ug/l	95
45) 1,4-Dioxane	7.696	88	12365	408.262	ug/l #	84
46) Methyl methacrylate	7.689	41	28595	18.014	ug/l	87
47) n-amyl Acetate	10.841	43	50174	17.899	ug/l	94
48) t-1,3-Dichloropropene	8.976	75	39638	18.557	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	43855	19.444	ug/l #	88
50) 1,1,2-Trichloroethane	9.153	97	28631	19.063	ug/l	96
51) Ethyl methacrylate	9.116	69	40280	17.958	ug/l	82
52) 1,3-Dichloropropane	9.305	76	46091	18.771	ug/l	100
53) Dibromochloromethane	9.518	129	31592	19.342	ug/l	99
54) 1,2-Dibromoethane	9.610	107	30385	18.782	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	92429	85.271	ug/l	93
56) Bromoform	10.799	173	21654	18.518	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	176977	90.780	ug/l	92
59) 2-Hexanone	9.427	43	131318	91.487	ug/l	92
61) Tetrachloroethene	9.275	164	26671	19.163	ug/l	95
62) Toluene	8.720	91	121770	18.802	ug/l	99
64) Chlorobenzene	10.079	112	76732	19.164	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	29396	19.272	ug/l	100
66) Ethyl Benzene	10.195	91	139244	19.165	ug/l	96
67) m/p-Xylenes	10.299	106	108487	38.375	ug/l	91
68) o-Xylene	10.640	106	52139	18.796	ug/l	89
69) Styrene	10.658	104	85807	18.606	ug/l	93
70) Isopropylbenzene	10.963	105	141950	19.163	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	42540	18.937	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	38390m	19.677	ug/l	
73) Bromobenzene	11.201	156	34334	19.080	ug/l	90
74) n-propylbenzene	11.305	91	162140	19.265	ug/l	95
75) 2-Chlorotoluene	11.366	91	98779	19.384	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	120343	19.218	ug/l	95
77) t-1,4-Dichloro-2-butene	11.018	75	10978	18.439	ug/l	91
78) 4-Chlorotoluene	11.457	91	111890	19.062	ug/l	93
79) tert-butylbenzene	11.713	119	117975	19.386	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	118404	19.338	ug/l	95
81) sec-Butylbenzene	11.890	105	143362	19.568	ug/l	96
82) p-Isopropyltoluene	12.012	119	120625	19.536	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	63647	19.278	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	64175	19.357	ug/l	99
85) n-Butylbenzene	12.335	91	101363	19.369	ug/l	94
86) Hexachloroethane	12.536	117	19871	19.604	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	63195	19.255	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8948	18.775	ug/l	81
89) 1,2,4-Trichlorobenzene	13.591	180	38513	19.107	ug/l	99
90) Hexachlorobutadiene	13.725	225	16339	20.140	ug/l	99
91) Naphthalene	13.774	128	126345	18.571	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	38381	18.932	ug/l	97

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

