

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042922\
 Data File : VX028439.D
 Acq On : 29 Apr 2022 21:15
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/02/2022
 Supervised By : Mahesh Dadoda 05/02/2022

Quant Time: Apr 30 08:16:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	58996	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	321702	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	296589	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	115686	30.834	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.767%			
60) 4-Bromofluorobenzene	11.079	95	135249	29.323	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.733%			
63) Toluene-d8	8.653	98	386771	30.783	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	40665	19.481	ug/l	99
3) Chloromethane	1.288	50	35735	21.716	ug/l	99
4) Vinyl Chloride	1.374	62	43992	21.030	ug/l	96
5) Bromomethane	1.605	94	39768	23.075	ug/l	96
6) Chloroethane	1.685	64	32666	20.277	ug/l	100
7) Trichlorofluoromethane	1.886	101	91540	20.013	ug/l	94
8) Diethyl Ether	2.136	74	38763	21.488	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.331	101	51344	19.088	ug/l	95
10) 1,1-Dichloroethene	2.319	96	43450	19.536	ug/l	99
11) Methyl Iodide	2.453	142	56369	18.870	ug/l	99
12) Methyl Acetate	2.703	43	77849	21.925	ug/l	97
13) Acrolein	2.233	56	66984	92.971	ug/l	99
14) Acrylonitrile	3.062	53	175384	108.497	ug/l	100
15) Acetone	2.374	58	48811	106.617	ug/l	96
16) Carbon Disulfide	2.514	76	53908	20.508	ug/l	100
17) Allyl chloride	2.666	41	67837	20.298	ug/l	89
18) Methylene Chloride	2.788	84	65514	22.926	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	51054	20.778	ug/l	88
20) Diisopropyl ether	3.764	45	177691	21.391	ug/l	87
21) 1,1-Dichloroethane	3.611	63	104523	21.289	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	72011	20.818	ug/l	96
23) tert-Butyl Alcohol	2.953	59	83324	95.442	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	206614	21.127	ug/l	95
25) Chloroform	5.099	83	123369	21.384	ug/l	92
26) Cyclohexane	5.471	56	60814	19.592	ug/l #	94
29) 1,1-Dichloropropene	5.696	75	70997	20.749	ug/l	98
30) 2-Butanone	4.556	43	235703	109.295	ug/l	92
31) 2,2-Dichloropropane	4.477	77	77540	18.451	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	101428	21.082	ug/l	97
33) Carbon Tetrachloride	5.684	117	82359	20.117	ug/l	98
34) Benzene	6.044	78	231736	21.263	ug/l	96
35) Methacrylonitrile	4.922	41	48661	22.404	ug/l	87
36) 1,2-Dichloroethane	6.086	62	87848	21.629	ug/l	96
37) Trichloroethene	7.129	130	68303	20.461	ug/l	98
38) Methylcyclohexane	7.385	83	66730	19.042	ug/l	95
39) 1,2-Dichloropropane	7.434	63	60530	21.129	ug/l	99
40) Dibromomethane	7.586	93	48446	22.047	ug/l	97
41) Bromodichloromethane	7.824	83	90179	21.627	ug/l	99
42) Vinyl Acetate	3.721	43	740447	110.787	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042922\
 Data File : VX028439.D
 Acq On : 29 Apr 2022 21:15
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/02/2022
 Supervised By : Mahesh Dadoda 05/02/2022

Quant Time: Apr 30 08:16:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	88023	21.811	ug/l	99
44) Isopropyl Acetate	6.342	43	136279	20.944	ug/l	98
45) 1,4-Dioxane	7.659	88	35793	422.427	ug/l	88
46) Methyl methacrylate	7.696	41	64155	21.574	ug/l	82
47) n-amyl Acetate	10.842	43	120794	21.442	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	89464	20.427	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	98290	20.886	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	75816	21.941	ug/l	98
51) Ethyl methacrylate	9.116	69	107164	21.673	ug/l	92
52) 1,3-Dichloropropane	9.311	76	118744	21.966	ug/l	100
53) Dibromochloromethane	9.525	129	73693	20.846	ug/l	97
54) 1,2-Dibromoethane	9.610	107	77385	21.528	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	297188	114.480	ug/l	99
56) Bromoform	10.799	173	53861	19.765	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	482802	111.901	ug/l	94
59) 2-Hexanone	9.433	43	372771	111.634	ug/l	95
61) Tetrachloroethene	9.275	164	55851	17.071	ug/l	99
62) Toluene	8.720	91	274940	21.374	ug/l	98
64) Chlorobenzene	10.079	112	191717	21.126	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	73982	20.873	ug/l	98
66) Ethyl Benzene	10.195	91	316751	20.886	ug/l	99
67) m/p-Xylenes	10.305	106	251777	41.415	ug/l	98
68) o-Xylene	10.640	106	129234	20.917	ug/l	97
69) Styrene	10.659	104	215280	20.863	ug/l	97
70) Isopropylbenzene	10.963	105	326899	20.337	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	124352	22.785	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	105482m	21.721	ug/l	
73) Bromobenzene	11.201	156	89200	20.581	ug/l	95
74) n-propylbenzene	11.305	91	360953	20.139	ug/l	99
75) 2-Chlorotoluene	11.366	91	228395	20.571	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	276196	20.492	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	26542	18.051	ug/l	89
78) 4-Chlorotoluene	11.457	91	259322	20.650	ug/l	96
79) tert-butylbenzene	11.713	119	281633	20.596	ug/l	94
80) 1,2,4-Trimethylbenzene	11.750	105	280754	20.751	ug/l	98
81) sec-Butylbenzene	11.890	105	320472	19.772	ug/l	99
82) p-Isopropyltoluene	12.012	119	273363	19.430	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	164988	20.296	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	166779	20.179	ug/l	100
85) n-Butylbenzene	12.335	91	214287	18.872	ug/l	100
86) Hexachloroethane	12.542	117	42793	19.329	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	167715	20.486	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	23406	20.078	ug/l	87
89) 1,2,4-Trichlorobenzene	13.591	180	98815	19.324	ug/l	100
90) Hexachlorobutadiene	13.725	225	41863	19.310	ug/l	99
91) Naphthalene	13.774	128	363414	20.336	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	102856	20.065	ug/l	98

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

