

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050522\
 Data File : VX028533.D
 Acq On : 05 May 2022 14:51
 Operator : JC/MD
 Sample : VX0505WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0505WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2022
 Supervised By : Mahesh Dadoda 05/06/2022

Quant Time: May 06 02:26:28 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	4.897	128	59426	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	317701	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	297165	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	117047	30.971	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.233%			
60) 4-Bromofluorobenzene	11.079	95	137765	29.811	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.367%			
63) Toluene-d8	8.647	98	381515	30.306	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	37950	18.049	ug/l	100
3) Chloromethane	1.294	50	32415	19.556	ug/l	100
4) Vinyl Chloride	1.374	62	40599	19.268	ug/l	99
5) Bromomethane	1.599	94	34352	19.788	ug/l	96
6) Chloroethane	1.685	64	31645	19.501	ug/l	100
7) Trichlorofluoromethane	1.886	101	87183	18.923	ug/l	94
8) Diethyl Ether	2.130	74	36275	19.963	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.331	101	50111	18.495	ug/l	96
10) 1,1-Dichloroethene	2.319	96	39688	17.715	ug/l	98
11) Methyl Iodide	2.453	142	49763	16.538	ug/l	98
12) Methyl Acetate	2.703	43	71505	19.993	ug/l	97
13) Acrolein	2.233	56	71688	98.780	ug/l	99
14) Acrylonitrile	3.062	53	162095	99.550	ug/l	99
15) Acetone	2.373	58	45809	99.336	ug/l	90
16) Carbon Disulfide	2.514	76	55377	20.914	ug/l	100
17) Allyl chloride	2.666	41	62181	18.471	ug/l	91
18) Methylene Chloride	2.788	84	54739	19.016	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	44913	18.147	ug/l	93
20) Diisopropyl ether	3.757	45	158385	18.929	ug/l	95
21) 1,1-Dichloroethane	3.611	63	92341	18.672	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	64779	18.592	ug/l	97
23) tert-Butyl Alcohol	2.959	59	82187	93.459	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	184150	18.694	ug/l	96
25) Chloroform	5.092	83	111650	19.213	ug/l	98
26) Cyclohexane	5.470	56	58699	18.774	ug/l #	93
29) 1,1-Dichloropropene	5.690	75	65591	19.411	ug/l	98
30) 2-Butanone	4.556	43	216569	101.687	ug/l	93
31) 2,2-Dichloropropane	4.477	77	74400	17.927	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	90815	19.114	ug/l	99
33) Carbon Tetrachloride	5.678	117	76507	18.923	ug/l	100
34) Benzene	6.037	78	210759	19.582	ug/l	98
35) Methacrylonitrile	4.922	41	42477	19.803	ug/l	84
36) 1,2-Dichloroethane	6.086	62	81665	20.360	ug/l	98
37) Trichloroethene	7.123	130	62408	18.930	ug/l	98
38) Methylcyclohexane	7.379	83	68586	19.819	ug/l	95
39) 1,2-Dichloropropane	7.434	63	55599	19.652	ug/l	99
40) Dibromomethane	7.580	93	43461	20.028	ug/l	97
41) Bromodichloromethane	7.824	83	84672	20.562	ug/l	98
42) Vinyl Acetate	3.721	43	672940	101.954	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050522\
 Data File : VX028533.D
 Acq On : 05 May 2022 14:51
 Operator : JC/MD
 Sample : VX0505WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0505WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2022
 Supervised By : Mahesh Dadoda 05/06/2022

Quant Time: May 06 02:26:28 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	4.708	43	80076	20.092	ug/l	100
44) Isopropyl Acetate	6.336	43	124714	19.408	ug/l	99
45) 1,4-Dioxane	7.659	88	36102	431.439	ug/l #	90
46) Methyl methacrylate	7.690	41	58096	19.782	ug/l	85
47) n-amyl Acetate	10.848	43	106798	19.197	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	81373	18.814	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	88581	19.060	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	68799	20.161	ug/l	98
51) Ethyl methacrylate	9.116	69	96281	19.717	ug/l	93
52) 1,3-Dichloropropane	9.311	76	106545	19.957	ug/l	100
53) Dibromochloromethane	9.525	129	69632	19.945	ug/l	98
54) 1,2-Dibromoethane	9.610	107	69266	19.512	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	278772	108.739	ug/l	99
56) Bromoform	10.799	173	53295	19.804	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	440454	101.888	ug/l	95
59) 2-Hexanone	9.433	43	341158	101.969	ug/l	95
61) Tetrachloroethene	9.275	164	63025	19.226	ug/l	93
62) Toluene	8.720	91	248070	19.248	ug/l	97
64) Chlorobenzene	10.079	112	174755	19.220	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	68558	19.305	ug/l	97
66) Ethyl Benzene	10.195	91	291277	19.169	ug/l	100
67) m/p-Xylenes	10.305	106	233790	38.382	ug/l	97
68) o-Xylene	10.640	106	118199	19.094	ug/l	97
69) Styrene	10.659	104	196740	19.029	ug/l	97
70) Isopropylbenzene	10.963	105	309981	19.247	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	110530	20.213	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	97778m	20.096	ug/l	
73) Bromobenzene	11.201	156	80499	18.537	ug/l	95
74) n-propylbenzene	11.305	91	352801	19.646	ug/l	100
75) 2-Chlorotoluene	11.366	91	214604	19.292	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	262238	19.418	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	26629	18.075	ug/l	87
78) 4-Chlorotoluene	11.457	91	246870	19.620	ug/l	97
79) tert-butylbenzene	11.719	119	261915	19.117	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	263029	19.403	ug/l	97
81) sec-Butylbenzene	11.890	105	322889	19.882	ug/l	99
82) p-Isopropyltoluene	12.012	119	274723	19.489	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	154713	18.995	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	156171	18.859	ug/l	98
85) n-Butylbenzene	12.335	91	222327	19.542	ug/l	99
86) Hexachloroethane	12.542	117	42656	19.230	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	157013	19.141	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	22134	18.950	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	94480	18.440	ug/l	99
90) Hexachlorobutadiene	13.725	225	40405	18.601	ug/l	99
91) Naphthalene	13.780	128	321792	17.972	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	93324	18.170	ug/l	98

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

