

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034781.D
 Acq On : 28 Mar 2023 10:04
 Operator : JC/MD
 Sample : VX0328WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0328WBSD01

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 15:17:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	27415	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	196621	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	209338	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	81192	30.823	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.733%			
60) 4-Bromofluorobenzene	11.079	95	124891	29.857	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.533%			
63) Toluene-d8	8.647	98	214183	30.107	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	53956	20.751	ug/l	98
3) Chloromethane	1.294	50	67479	20.014	ug/l	99
4) Vinyl Chloride	1.374	62	67749	20.367	ug/l	94
5) Bromomethane	1.617	94	45456	20.775	ug/l	96
6) Chloroethane	1.691	64	42347	19.562	ug/l	97
7) Trichlorofluoromethane	1.892	101	109831	20.728	ug/l	98
8) Diethyl Ether	2.130	74	39638	20.779	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	56729	21.103	ug/l	99
10) 1,1-Dichloroethene	2.319	96	54088	19.876	ug/l	98
11) Methyl Iodide	2.453	142	66760	19.265	ug/l	97
12) Methyl Acetate	2.703	43	122919	20.398	ug/l	97
13) Acrolein	2.239	56	79049	113.118	ug/l	97
14) Acrylonitrile	3.062	53	168976	101.830	ug/l	100
15) Acetone	2.392	58	50770	112.696	ug/l	97
16) Carbon Disulfide	2.514	76	136450	19.604	ug/l	99
17) Allyl chloride	2.666	41	106282	20.184	ug/l	97
18) Methylene Chloride	2.788	84	64817	20.220	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	58577	19.672	ug/l	95
20) Diisopropyl ether	3.757	45	216743	20.091	ug/l	94
21) 1,1-Dichloroethane	3.611	63	114353	19.824	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	68963	19.885	ug/l	99
23) tert-Butyl Alcohol	3.014	59	77248m	103.464	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	202921	20.067	ug/l	97
25) Chloroform	5.086	83	115872	19.749	ug/l	100
26) Cyclohexane	5.470	56	104336	20.641	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	84390	18.661	ug/l	99
30) 2-Butanone	4.562	43	255506	101.311	ug/l	100
31) 2,2-Dichloropropane	4.477	77	91342	19.917	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	98597	18.585	ug/l	99
33) Carbon Tetrachloride	5.672	117	82542	18.851	ug/l	93
34) Benzene	6.037	78	252881	19.242	ug/l	98
35) Methacrylonitrile	4.916	41	51816	18.772	ug/l	94
36) 1,2-Dichloroethane	6.086	62	98294	19.076	ug/l	100
37) Trichloroethene	7.123	130	64374	19.247	ug/l	92
38) Methylcyclohexane	7.379	83	99725	20.184	ug/l	98
39) 1,2-Dichloropropane	7.427	63	65998	19.320	ug/l	98
40) Dibromomethane	7.580	93	45354	19.328	ug/l	99
41) Bromodichloromethane	7.818	83	83065	18.793	ug/l	96
42) Vinyl Acetate	3.721	43	805029	97.844	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034781.D
 Acq On : 28 Mar 2023 10:04
 Operator : JC/MD
 Sample : VX0328WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0328WBSD01

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 15:17:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	90092	18.419	ug/l	98
44) Isopropyl Acetate	6.336	43	157229	18.989	ug/l	99
45) 1,4-Dioxane	7.714	88	31543	384.515	ug/l	97
46) Methyl methacrylate	7.690	41	76010	18.840	ug/l	98
47) n-amyl Acetate	10.841	43	134295	18.656	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	89691	18.624	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	100944	19.079	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	64637	19.772	ug/l	98
51) Ethyl methacrylate	9.116	69	100355	18.914	ug/l	98
52) 1,3-Dichloropropane	9.305	76	109803	19.014	ug/l	99
53) Dibromochloromethane	9.519	129	58509	18.091	ug/l	100
54) 1,2-Dibromoethane	9.610	107	66798	19.102	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	278744	99.828	ug/l	99
56) Bromoform	10.799	173	38226	17.142	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	476795	99.340	ug/l	99
59) 2-Hexanone	9.427	43	369065	102.128	ug/l	99
61) Tetrachloroethene	9.275	164	56053	19.872	ug/l	97
62) Toluene	8.714	91	270729	19.778	ug/l	100
64) Chlorobenzene	10.079	112	165627	19.649	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	57823	19.189	ug/l	99
66) Ethyl Benzene	10.195	91	306101	20.078	ug/l	98
67) m/p-Xylenes	10.299	106	230725	39.774	ug/l	98
68) o-Xylene	10.640	106	113187	19.731	ug/l	99
69) Styrene	10.652	104	182148	19.260	ug/l	99
70) Isopropylbenzene	10.963	105	294249	19.819	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	98222	20.127	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	89522m	20.152	ug/l	
73) Bromobenzene	11.195	156	69138	19.391	ug/l	97
74) n-propylbenzene	11.305	91	346212	20.032	ug/l	99
75) 2-Chlorotoluene	11.366	91	212788	19.749	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	245510	19.644	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	24932	18.275	ug/l	97
78) 4-Chlorotoluene	11.451	91	243141	19.684	ug/l	99
79) tert-butylbenzene	11.713	119	233883	19.604	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	247827	19.955	ug/l	98
81) sec-Butylbenzene	11.890	105	293143	20.278	ug/l	99
82) p-Isopropyltoluene	12.006	119	242686	19.894	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	131658	19.553	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	132641	19.616	ug/l	98
85) n-Butylbenzene	12.335	91	212718	20.232	ug/l	99
86) Hexachloroethane	12.536	117	36760	18.398	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	129618	19.673	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	19534	18.317	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	79058	20.002	ug/l	100
90) Hexachlorobutadiene	13.725	225	31946	20.958	ug/l	97
91) Naphthalene	13.774	128	276620	19.809	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	78191	19.789	ug/l	100

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

