

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037416.D
 Acq On : 12 Aug 2021 15:43
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081221

Manual Integrations
 APPROVED

apatel
 8/13/2021 11:06:59 AM

Quant Time: Aug 12 16:27:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 12 16:27:25 2021
 QLast Update : Thu Aug 12 15:26:13 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1412265	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4148551	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3743202m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2681280	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1892738	8.772	ppbv	100
3) Chlorodifluoromethane	2.99	51	2392428	8.626	ppbv	98
4) Chloromethane	3.14	50	880177	8.829	ppbv	98
5) Vinyl Chloride	3.26	62	922165	9.055	ppbv	97
6) Bromomethane	3.47	94	448452	7.873	ppbv	98
7) Chloroethane	3.56	64	320387	8.834	ppbv	94
8) Dichlorotetrafluoroethane	3.19	85	2124800	8.824	ppbv	99
9) Propene	3.01	41	850357	9.131	ppbv	98
10) Heptane	8.12	43	2129783	9.405	ppbv	98
11) Trichlorofluoromethane	3.95	101	2029645	8.693	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1463767	8.950	ppbv	97
13) Ethanol	3.62	45	97691m	9.829	ppbv	
14) Bromoethene	3.74	108	667428	9.174	ppbv	97
15) Acetone	3.85	43	1148658	7.669	ppbv	99
16) 1,3-Butadiene	3.33	39	888007	8.834	ppbv	97
17) tert-Butyl alcohol	4.29	59	1376953	9.632	ppbv	100
18) 1,1-Dichloroethene	4.29	96	685689	9.030	ppbv	95
19) Isopropyl Alcohol	3.97	45	774240	8.882	ppbv #	1
20) Methylene Chloride	4.35	84	609010	7.690	ppbv	90
21) Allyl Chloride	4.41	41	1092983	9.313	ppbv	97
22) trans-1,2-Dichloroethene	4.89	96	675048	9.477	ppbv	95
23) Vinyl Acetate	5.07	43	2020515	8.792	ppbv	100
24) 1,1-Dichloroethane	5.01	63	1452583	8.138	ppbv	97
25) Ethyl Acetate	5.68	43	3331006	9.332	ppbv	99
26) Hexane	5.69	57	1632722	8.863	ppbv	99
27) Carbon Disulfide	4.55	76	1655012	10.657	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1709928	8.674	ppbv	100
29) Chloroform	5.75	83	2309143	8.904	ppbv	98
30) Cyclohexane	7.13	84	1330687	8.772	ppbv	96
31) cis-1,2-Dichloroethene	5.55	61	1540247	9.673	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	2263143	8.647	ppbv	99
34) 2-Butanone	5.25	43	1455446	8.498	ppbv	97
35) Carbon Tetrachloride	7.02	117	2337882	9.139	ppbv	98
36) Benzene	6.89	78	3289369	9.403	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1629272	9.127	ppbv	99
38) Trichloroethene	7.84	130	1285749	8.327	ppbv	97
39) 1,2-Dichloropropane	7.62	63	1265192	9.494	ppbv	100
40) 1,4-Dioxane	7.84	88	283902	8.755	ppbv #	100
41) Tetrahydrofuran	6.05	42	758492	9.643	ppbv	99
42) Bromodichloromethane	7.79	83	2479606	9.919	ppbv	96
43) Methyl Methacrylate	8.01	69	1187329	10.015	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5470834	9.354	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	804032	9.126	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1057617	8.599	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1325631	9.202	ppbv	97
48) Dibromochloromethane	10.30	129	2092942	10.070	ppbv	97
49) Bromoform	13.04	173	1610000	10.223	ppbv	97
50) 4-Methyl-2-Pentanone	8.75	43	2189936	10.163	ppbv	100
51) 2-Hexanone	10.14	43	1051540m	10.373	ppbv	
52) Tetrachloroethene	11.22	164	1180769	8.012	ppbv	95
53) Toluene	9.81	91	3781816	9.469	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1811503	9.240	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.12	131	1412166	9.477	ppbv #	56
57) Chlorobenzene	12.15	112	2683868	8.847	ppbv	96
58) Ethyl Benzene	12.71	91	4810979	9.475	ppbv	99
59) m/p-Xylene	12.99	91	8147264m	18.265	ppbv	
60) o-Xylene	13.69	91	3692342	8.911	ppbv	99
61) Styrene	13.53	104	2040156	9.745	ppbv	99
62) Isopropylbenzene	14.66	105	5206824	8.786	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2619233	8.381	ppbv	100
64) n-propylbenzene	15.56	120	1334570	8.950	ppbv	100
65) tert-Butylbenzene	16.74	119	4618261	8.642	ppbv	99
66) Benzyl Chloride	16.99	91	210380	8.604	ppbv #	98
67) sec-Butylbenzene	17.29	105	6428628	8.841	ppbv	99
69) p-Isopropyltoluene	17.65	119	5421918	9.085	ppbv	100
70) n-Butylbenzene	18.55	91	5272932	9.506	ppbv	99
71) 2-Chlorotoluene	15.45	91	3726247	8.890	ppbv	99
72) 4-Ethyltoluene	15.84	105	4622645	9.611	ppbv	97
73) 1,3,5-Trimethylbenzene	16.00	105	4130863	9.084	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	4146997	8.907	ppbv	99
75) 1,3-Dichlorobenzene	16.99	146	2482351	8.712	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2386735	8.449	ppbv	100
77) 1,2-Dichlorobenzene	17.81	146	2385340	8.701	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	1830700	8.244	ppbv	100
79) Naphthalene	22.19	128	3132514	12.380	ppbv	98
80) Naphthalene, 2-methyl-	24.97	142	939619	17.582	ppbv	97
81) 1,2,4-Trichlorobenzene	21.92	180	1900309	11.053	ppbv	99

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

