

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034674.D
 Acq On : 25 Feb 2020 15:47
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVV022520

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:39:00 PM

Quant Time: Feb 26 00:49:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 26 2020
 QLast Update : Tue Feb 25 15:47:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1160548	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2421569	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2585667m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2044501	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1445508	7.993	ppbv	97
3) Chlorodifluoromethane	2.95	51	1278233	9.072	ppbv	99
4) Chloromethane	3.10	50	733342	8.437	ppbv	99
5) Vinyl Chloride	3.22	62	695398	8.725	ppbv	95
6) Bromomethane	3.44	94	384305	9.464	ppbv	94
7) Chloroethane	3.53	64	257669	8.800	ppbv	92
8) Dichlorotetrafluoroethane	3.15	85	1545834	8.480	ppbv	100
9) Propene	2.97	41	563625	9.807	ppbv	99
10) Heptane	8.14	43	1505635	9.890	ppbv	98
11) Trichlorofluoromethane	3.93	101	1523104	8.260	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1055482	8.290	ppbv	97
13) Ethanol	3.57	45	151881	8.836	ppbv	100
14) Bromoethene	3.71	108	481803	9.161	ppbv	100
15) Acetone	3.82	43	1235771	7.709	ppbv	99
16) 1,3-Butadiene	3.29	39	629238	9.247	ppbv	100
17) tert-Butyl alcohol	4.27	59	1125153	9.546	ppbv	100
18) 1,1-Dichloroethene	4.27	96	509766	8.781	ppbv	90
19) Isopropyl Alcohol	3.94	45	1035111	9.307	ppbv	99
20) Methylene Chloride	4.32	84	438558	7.456	ppbv	97
21) Allyl Chloride	4.39	41	884840	9.154	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	478582	8.422	ppbv	95
23) Vinyl Acetate	5.06	43	2052402	10.523	ppbv	98
24) 1,1-Dichloroethane	5.00	63	1457761	8.845	ppbv	99
25) Ethyl Acetate	5.67	43	2488146	8.985	ppbv	99
26) Hexane	5.68	57	1147431	9.346	ppbv	97
27) Carbon Disulfide	4.53	76	1261096	9.059	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1763078	9.981	ppbv	99
29) Chloroform	5.75	83	1707937	8.775	ppbv	97
30) Cyclohexane	7.14	84	937518	9.999	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1154092	9.720	ppbv	97
32) 1,1,1-Trichloroethane	6.52	97	1618591	9.136	ppbv	99
34) 2-Butanone	5.23	43	1684397	9.630	ppbv	99
35) Carbon Tetrachloride	7.03	117	1671182	8.974	ppbv	97
36) Benzene	6.90	78	2249634	9.694	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1356178	8.907	ppbv	99
38) Trichloroethene	7.85	130	822457	9.384	ppbv	99
39) 1,2-Dichloropropane	7.63	63	925814	9.708	ppbv	96
40) 1,4-Dioxane	7.84	88	353904	9.816	ppbv	# 1
41) Tetrahydrofuran	6.05	42	964237	10.534	ppbv	99
42) Bromodichloromethane	7.81	83	1840188	9.340	ppbv	98
43) Methyl Methacrylate	8.03	69	938143	10.519	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3883601	9.319	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1124101	10.630	ppbv	97
46) cis-1,3-Dichloropropene	8.73	75	1311680	10.617	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	917722	9.087	ppbv	99
48) Dibromochloromethane	10.34	129	1522025	9.789	ppbv	100
49) Bromoform	13.09	173	1313853	9.649	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	2552184	10.242	ppbv	100
51) 2-Hexanone	10.16	43	2152139	10.909	ppbv #	99
52) Tetrachloroethene	11.26	164	745838	9.154	ppbv	97
53) Toluene	9.83	91	2535131	10.152	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1392398	9.984	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.17	131	1011190	8.943	ppbv	100
57) Chlorobenzene	12.19	112	1853980	8.554	ppbv	97
58) Ethyl Benzene	12.75	91	3369137	9.636	ppbv	99
59) m/p-Xylene	13.04	91	5454446m	17.825	ppbv	
60) o-Xylene	13.74	91	2738469	8.956	ppbv	99
61) Styrene	13.57	104	2086086	9.847	ppbv	100
62) Isopropylbenzene	14.71	105	3667558	9.228	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	2017496	8.348	ppbv	100
64) n-propylbenzene	15.61	120	949041	9.427	ppbv	97
65) tert-Butylbenzene	16.79	119	3225926	9.295	ppbv	100
66) Benzyl Chloride	17.04	91	1550327	11.641	ppbv	99
67) sec-Butylbenzene	17.34	105	4599104	9.306	ppbv	100
69) p-Isopropyltoluene	17.70	119	3752668	9.588	ppbv	99
70) n-Butylbenzene	18.60	91	4022738	9.650	ppbv	99
71) 2-Chlorotoluene	15.50	91	2893428	9.510	ppbv	100
72) 4-Ethyltoluene	15.89	105	3159955	9.389	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	3042268	9.518	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	3098061	9.026	ppbv	96
75) 1,3-Dichlorobenzene	17.05	146	1718565	8.557	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1722844	8.709	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1724930	8.947	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1355801	8.711	ppbv	99
79) Naphthalene	22.27	128	2806292	10.974	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	933574	17.462	ppbv	97
81) 1,2,4-Trichlorobenzene	22.00	180	1478116	9.489	ppbv	98

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

