

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034123.D
 Acq On : 5 Sep 2019 4:27
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:14:58 AM

Quant Time: Sep 05 10:11:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:11:20 2019
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1189515	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2174298	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2206090	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1853126	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	117004	0.596	ppbv	96
3) Chlorodifluoromethane	2.98	51	72202	0.545	ppbv	96
4) Chloromethane	3.13	50	43732	0.528	ppbv	98
5) Vinyl Chloride	3.25	62	37434	0.496	ppbv #	85
6) Bromomethane	3.47	94	20026m	0.537	ppbv	
7) Chloroethane	3.56	64	13056m	0.508	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	87178	0.552	ppbv	99
9) Propene	3.00	41	40134	0.541	ppbv	92
10) Heptane	8.19	43	102752	0.534	ppbv	100
11) Trichlorofluoromethane	3.96	101	87954	0.550	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.51	101	58077	0.543	ppbv	98
13) Ethanol	3.61	45	8410m	0.501	ppbv	
14) Bromoethene	3.75	108	23295m	0.503	ppbv	
15) Acetone	3.87	43	81023	0.565	ppbv	100
16) 1,3-Butadiene	3.33	39	37288	0.514	ppbv	93
17) tert-Butyl alcohol	4.33	59	57857	0.556	ppbv	99
18) 1,1-Dichloroethene	4.30	96	25299m	0.518	ppbv	
19) Isopropyl Alcohol	3.99	45	59502m	0.617	ppbv	
20) Methylene Chloride	4.36	84	26294	0.555	ppbv	91
21) Allyl Chloride	4.43	41	48530	0.513	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	26378m	0.539	ppbv	
23) Vinyl Acetate	5.10	43	126073	0.518	ppbv	97
24) 1,1-Dichloroethane	5.04	63	88095	0.546	ppbv #	96
25) Ethyl Acetate	5.72	43	174631	0.555	ppbv	100
26) Hexane	5.72	57	81308	0.581	ppbv	92
27) Carbon Disulfide	4.57	76	60730m	0.482	ppbv	
28) Methyl tert-Butyl Ether	5.07	73	107063	0.522	ppbv	97
29) Chloroform	5.79	83	103128	0.546	ppbv	86
30) Cyclohexane	7.18	84	52729	0.521	ppbv	97
31) cis-1,2-Dichloroethene	5.58	61	68578	0.512	ppbv	90
32) 1,1,1-Trichloroethane	6.56	97	88429	0.499	ppbv	98
34) 2-Butanone	5.29	43	114052	0.546	ppbv	98
35) Carbon Tetrachloride	7.07	117	82893	0.493	ppbv	91
36) Benzene	6.95	78	134590	0.542	ppbv	96
37) 1,2-Dichloroethane	6.35	62	82988	0.545	ppbv	97
38) Trichloroethene	7.89	130	44574m	0.485	ppbv	
39) 1,2-Dichloropropane	7.67	63	58709m	0.552	ppbv	
40) 1,4-Dioxane	7.92	88	24250m	0.618	ppbv	
41) Tetrahydrofuran	6.11	42	64847	0.520	ppbv	97
42) Bromodichloromethane	7.85	83	102226	0.514	ppbv	100
43) Methyl Methacrylate	8.08	69	51392	0.502	ppbv	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034123.D
 Acq On : 5 Sep 2019 4:27
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:14:58 AM

Quant Time: Sep 05 10:11:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	264512	0.577	ppbv	96
45) t-1,3-Dichloropropene	9.35	75	50841	0.423	ppbv	91
46) cis-1,3-Dichloropropene	8.77	75	68374	0.467	ppbv #	81
47) 1,1,2-Trichloroethane	9.55	97	53196m	0.550	ppbv	
48) Dibromochloromethane	10.39	129	69918	0.484	ppbv	97
49) Bromoform	13.13	173	58570m	0.463	ppbv	
50) 4-Methyl-2-Pentanone	8.82	43	177732	0.557	ppbv	96
51) 2-Hexanone	10.22	43	149332m	0.547	ppbv	
52) Tetrachloroethene	11.31	164	44487m	0.511	ppbv	
53) Toluene	9.88	91	151399	0.551	ppbv	93
54) 1,2-Dibromoethane	10.69	107	77460m	0.538	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.21	131	51166m	0.541	ppbv	
57) Chlorobenzene	12.23	112	112056	0.590	ppbv #	93
58) Ethyl Benzene	12.80	91	206110m	0.570	ppbv	
59) m/p-Xylene	13.08	91	332616m	1.130	ppbv	
60) o-Xylene	13.78	91	175632	0.598	ppbv	94
61) Styrene	13.62	104	120728m	0.550	ppbv	
62) Isopropylbenzene	14.76	105	222667m	0.582	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	129784m	0.540	ppbv	
64) n-propylbenzene	15.66	120	50460	0.519	ppbv #	60
65) tert-Butylbenzene	16.84	119	195139m	0.593	ppbv	
66) Benzyl Chloride	17.09	91	45021m	0.371	ppbv	
67) sec-Butylbenzene	17.39	105	277229m	0.584	ppbv	
69) p-Isopropyltoluene	17.74	119	220368m	0.582	ppbv	
70) n-Butylbenzene	18.65	91	254141	0.588	ppbv	95
71) 2-Chlorotoluene	15.55	91	176831	0.566	ppbv	98
72) 4-Ethyltoluene	15.93	105	186226	0.562	ppbv	98
73) 1,3,5-Trimethylbenzene	16.09	105	182153	0.565	ppbv	100
74) 1,2,4-Trimethylbenzene	16.86	105	196542	0.592	ppbv #	93
75) 1,3-Dichlorobenzene	17.10	146	103104m	0.587	ppbv	
76) 1,4-Dichlorobenzene	17.24	146	110068	0.594	ppbv	95
77) 1,2-Dichlorobenzene	17.92	146	108217m	0.602	ppbv	
78) Hexachloro-1,3-Butadiene	23.47	225	73423m	0.599	ppbv	
79) Naphthalene	22.33	128	161168m	0.538	ppbv	
80) Naphthalene, 2-methyl-	25.06	142	29406	0.282	ppbv	95
81) 1,2,4-Trichlorobenzene	22.05	180	90705m	0.556	ppbv	

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090519\
Data File : VL034123.D
Acq On : 5 Sep 2019 4:27
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:58 AM

Quant Time: Sep 05 10:11:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 05 09:42:59 2019
Response via : Initial Calibration

