Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\

Quantitation Report (Not Reviewed)

Data File : VL033284.D
Acq On : 12 Mar 2019 15:03
Operator : SY/AP
Sample : 0.4 PPB MDL
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Quant Time: Mar 13 07:52:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	830198	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	1911116	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	1867982	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.58	95	1510737	10.47	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.22	85	60563	0.361	ppbv		94
3) Chlorodifluoromethane	3.01	51	45694	0.415	ppbv		100
4) Chloromethane	3.17	50	23692	0.402	ppbv	#	83
5) Vinyl Chloride	3.29	62	23433	0.408	ppbv	#	84
6) Bromomethane	3.52	94	14682	0.418	ppbv		95
7) Chloroethane	3.60	64	5328	0.256	ppbv	#	87
8) Dichlorotetrafluoroethane	3.22	85	60563	0.427	ppbv		98
9) Propene	3.04	41	19792	0.394	ppbv		94
10) Heptane	8.25	43	43519	0.385	ppbv		99
11) Trichlorofluoromethane	4.00	101	68682	0.414	ppbv		89
12) 1,1,2-Trichlorotrifluoroet	4.55	101	42001	0.442	ppbv		97
13) Ethanol	3.65	45	3782	0.247	ppbv	#	1
14) Bromoethene	3.79	108	16557	0.374	ppbv	#	95
15) Acetone	3.91	43	51571	0.405	ppbv		98
16) 1,3-Butadiene	3.36	39	19446	0.423	ppbv		89
17) tert-Butyl alcohol	4.35	59	771	0.045	ppbv	#	74
18) 1,1-Dichloroethene	4.35	96	19170	0.456	ppbv		84
19) Isopropyl Alcohol	4.04	45	30597	0.398	ppbv	#	93
20) Methylene Chloride	4.41	84	21864	0.516	ppbv		98
21) Allyl Chloride	4.48	41	26721	0.422	ppbv		92
22) trans-1,2-Dichloroethene	4.97	96	17488	0.390	ppbv		87
23) Vinyl Acetate	5.16	43	59629	0.374	ppbv	#	93
24) 1,1-Dichloroethane	5.09	63	47833	0.413	ppbv		100
25) Ethyl Acetate	5.78	43	80952	0.413	ppbv		98
26) Hexane	5.78	57	37650	0.409	ppbv		95
27) Carbon Disulfide	4.62	76	36095	0.369	ppbv	#	85
28) Methyl tert-Butyl Ether	5.12	73	47647	0.364	ppbv		100
29) Chloroform	5.84	83	31560	0.225	ppbv		99
30) Cyclohexane	7.25	84	25365	0.355	ppbv		91
31) cis-1,2-Dichloroethene	5.63	61	33206	0.376	ppbv		90
32) 1,1,1-Trichloroethane	6.62	97	53677	0.393	ppbv		94
34) 2-Butanone	5.34	43	24214	0.192	ppbv	#	55
35) Carbon Tetrachloride	7.13	117	56088	0.402	ppbv		91
36) Benzene	7.00	78	70383	0.399	ppbv		96
37) 1,2-Dichloroethane	6.41	62	44765	0.423	ppbv		99
38) Trichloroethene	7.96	130	27196	0.396	ppbv		95
39) 1,2-Dichloropropane	7.73	63	16278	0.245	ppbv		93
40) 1,4-Dioxane	7.99	88	1916	0.077	ppbv	#	1
42) Bromodichloromethane	7.91	83	29652	0.204	ppbv		92
43) Methyl Methacrylate	8.14	69	24349	0.354	ppbv		95
44) 2,2,4-Trimethylpentane	7.99	57	117893	0.394	ppbv		96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\

Quantitation Report (Not Reviewed)

Data File : VL033284.D
Acq On : 12 Mar 2019 15:03
Operator : SY/AP
Sample : 0.4 PPB MDL
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Quant Time: Mar 13 07:52:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) t-1,3-Dichloropropene	9.41	75	19549	0.231	ppbv		94
46) cis-1,3-Dichloropropene	8.83	75	15682	0.158	ppbv		91
47) 1,1,2-Trichloroethane	9.61	97	21201	0.299	ppbv		94
48) Dibromochloromethane	10.44	129	42218	0.364	ppbv		100
49) Bromoform	13.20	173	30983	0.329	ppbv		98
50) 4-Methyl-2-Pentanone	8.89	43	65366	0.362	ppbv		98
51) 2-Hexanone	10.30	43	44778	0.325	ppbv	#	97
52) Tetrachloroethene	11.37	164	14258	0.221	ppbv		88
53) Toluene	9.94	91	36643	0.180	ppbv	#	28
54) 1,2-Dibromoethane	10.76	107	41573	0.382	ppbv		95
56) 1,1,1,2-Tetrachloroethane	12.28	131	14915	0.188	ppbv	#	1
57) Chlorobenzene	12.31	112	25967	0.184	ppbv		96
58) Ethyl Benzene	12.87	91	94954	0.370	ppbv		94
59) m/p-Xylene	13.12	91	23603	0.110	ppbv	#	1
60) o-Xylene	13.84	91	49252	0.239	ppbv	#	53
61) Styrene	13.68	104	23211	0.158	ppbv	#	27
62) Isopropylbenzene	14.82	105	57409	0.200	ppbv	#	50
63) 1,1,2,2-Tetrachloroethane	13.83	83	60509	0.437	ppbv		96
64) n-propylbenzene	15.72	120	11804	0.167	ppbv	#	1
65) tert-Butylbenzene	16.90	119	46901	0.193	ppbv	#	17
66) Benzyl Chloride	17.16	91	23672	0.252	ppbv		99
67) sec-Butylbenzene	17.46	105	84058	0.243	ppbv	#	72
69) p-Isopropyltoluene	17.82	119	98665	0.354	ppbv		96
70) n-Butylbenzene	18.71	91	108619	0.362	ppbv		99
71) 2-Chlorotoluene	15.61	91	83077	0.383	ppbv		97
72) 4-Ethyltoluene	16.00	105	51462	0.231	ppbv	#	56
73) 1,3,5-Trimethylbenzene	16.15	105	46295	0.220	ppbv		97
74) 1,2,4-Trimethylbenzene	16.93	105	39780	0.186	ppbv		94
75) 1,3-Dichlorobenzene	17.17	146	54945	0.429	ppbv		95
76) 1,4-Dichlorobenzene	17.31	146	37134	0.293	ppbv	#	65
77) 1,2-Dichlorobenzene	17.99	146	52934	0.415	ppbv		96
78) Hexachloro-1,3-Butadiene	23.54	225	28670	0.270	ppbv	#	57
79) Naphthalene	22.41	128	22279	0.096	ppbv	#	89
80) Naphthalene,2-methyl-	25.14	142	4157	0.066	ppbv	#	64
81) 1,2,4-Trichlorobenzene	22.14	180	28898	0.237	ppbv	#	80

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

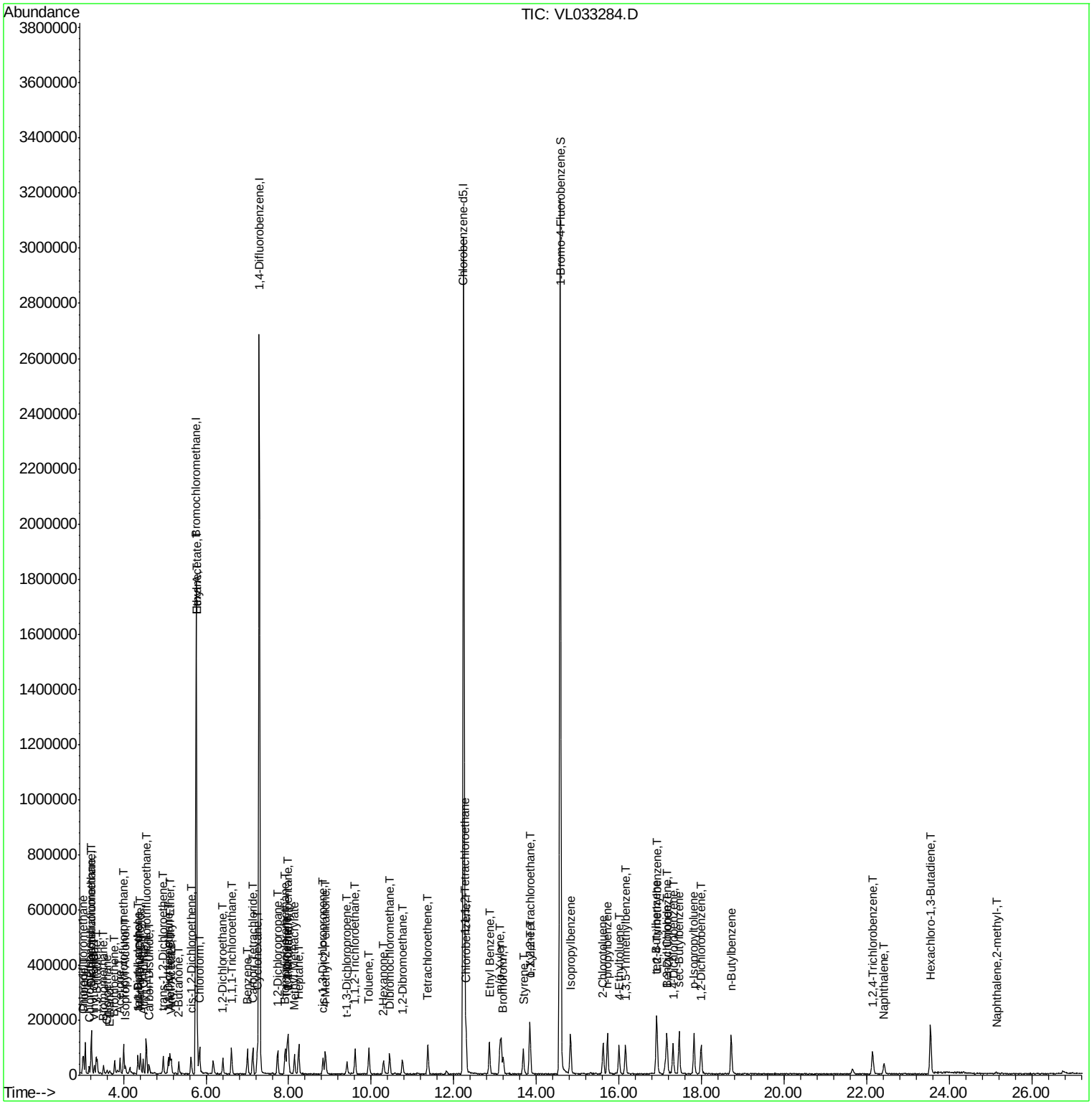
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\

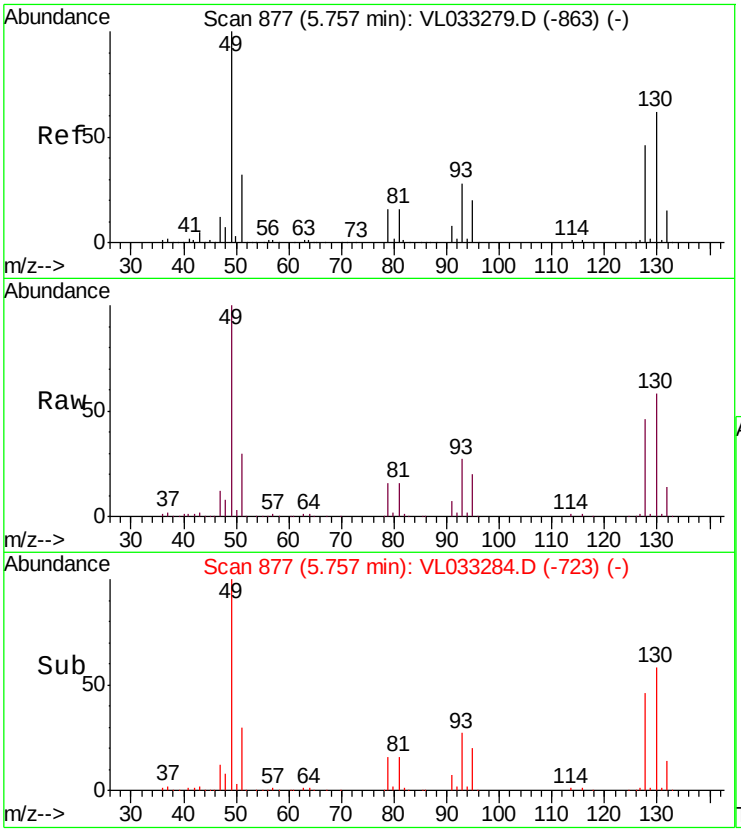
Quantitation Report (Not Reviewed)

Data File : VL033284.D
Acq On : 12 Mar 2019 15:03
Operator : SY/AP
Sample : 0.4 PPB MDL
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Quant Time: Mar 13 07:52:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration



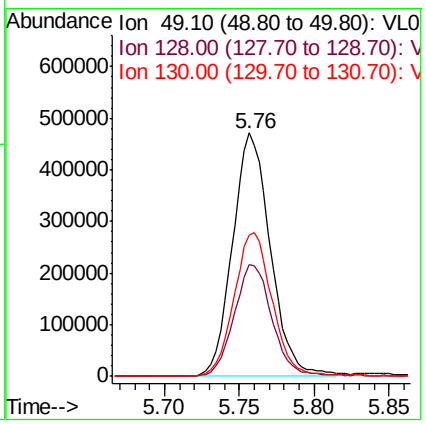


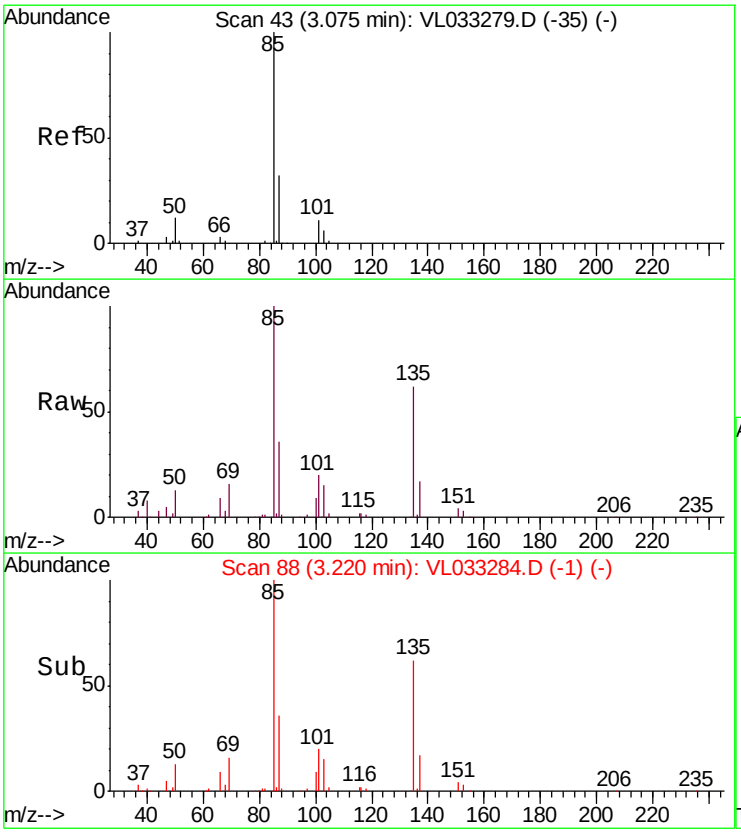
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 49 Resp: 830198

Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.3	69.9
130	59.7	30.0	90.1

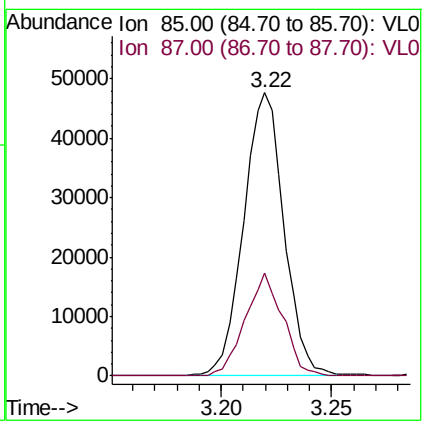


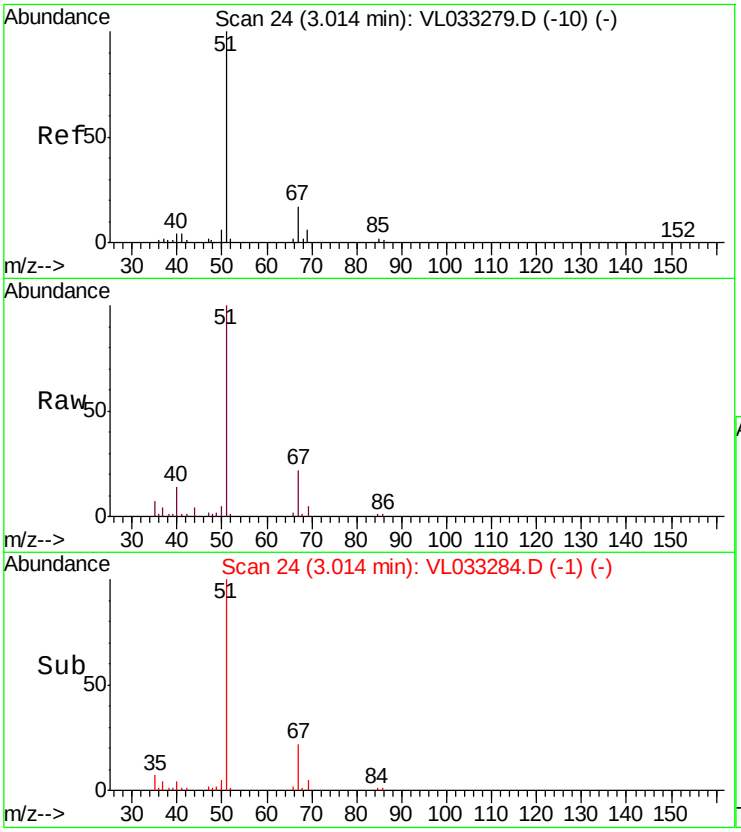


#2
Dichlorodifluoromethane
Concen: 0.361 ppbv
RT: 3.22 min Scan# 88
Delta R.T. 0.14 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 85 Resp: 60563

Ion	Ratio	Lower	Upper
85	100		
87	36.5	26.4	39.6



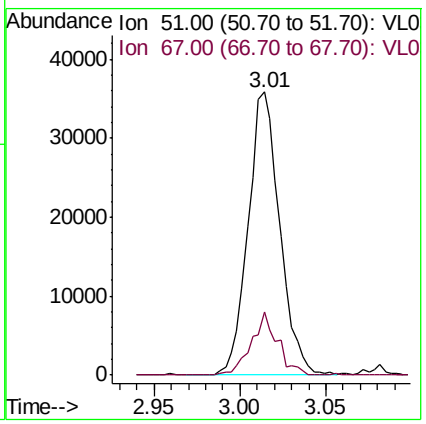


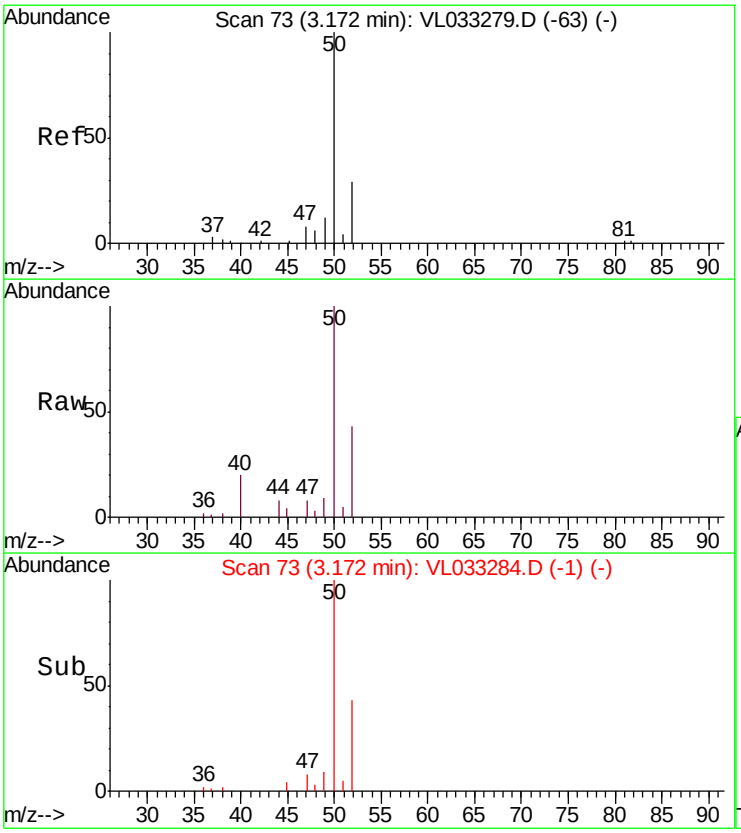
#3
Chlorodifluoromethane
Concen: 0.415 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 51 Resp: 45694

Ion	Ratio	Lower	Upper
51	100		
67	18.5	15.0	22.4

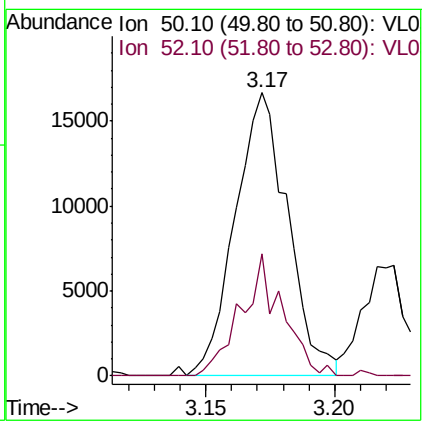


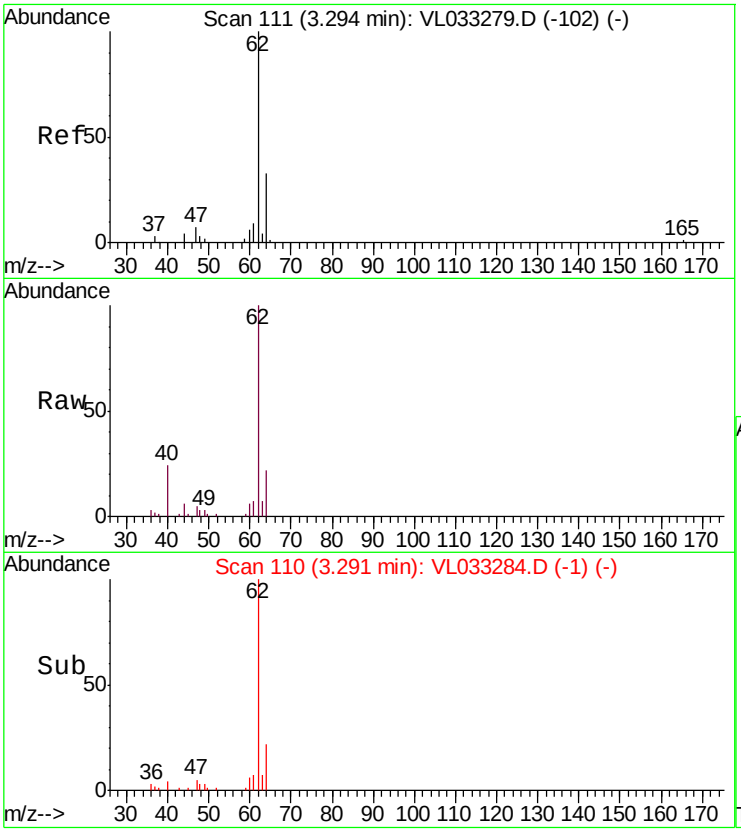


#4
Chloromethane
Concen: 0.402 ppbv
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 50 Resp: 23692

Ion	Ratio	Lower	Upper
50	100		
52	43.1	26.6	39.8#



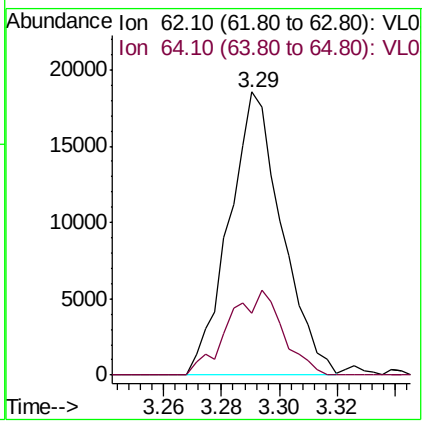


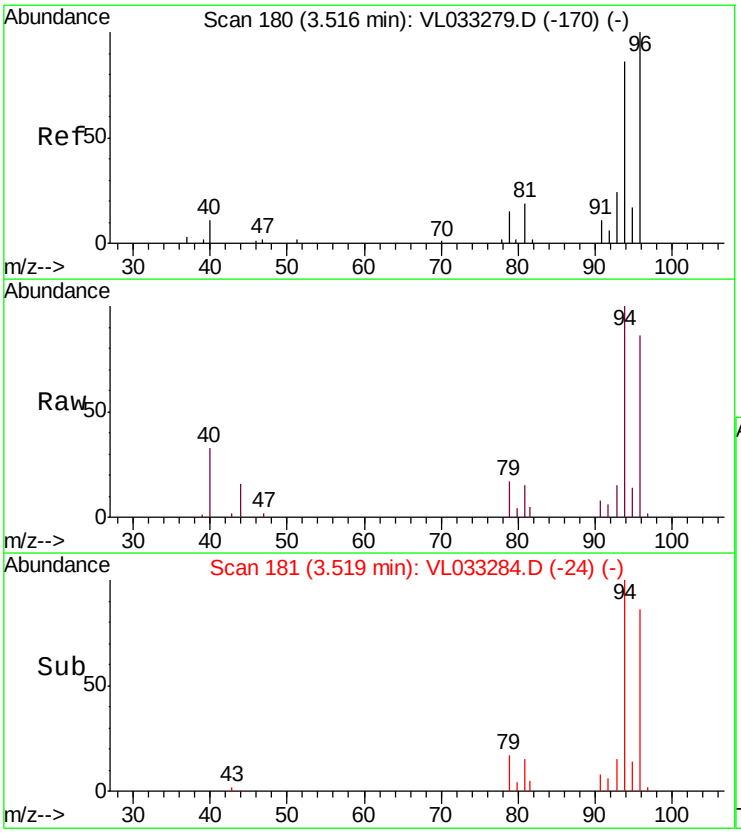
#5
Vinyl Chloride
Concen: 0.408 ppbv
RT: 3.29 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 62 Resp: 23433

Ion	Ratio	Lower	Upper
62	100		
64	21.9	24.5	36.7#

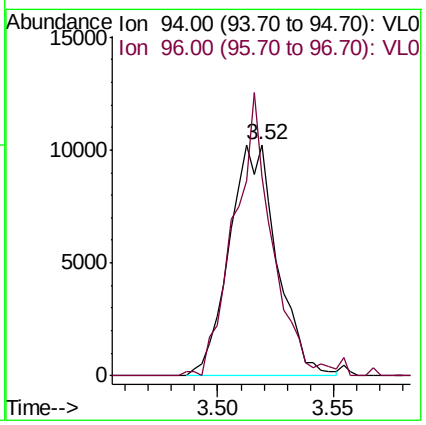


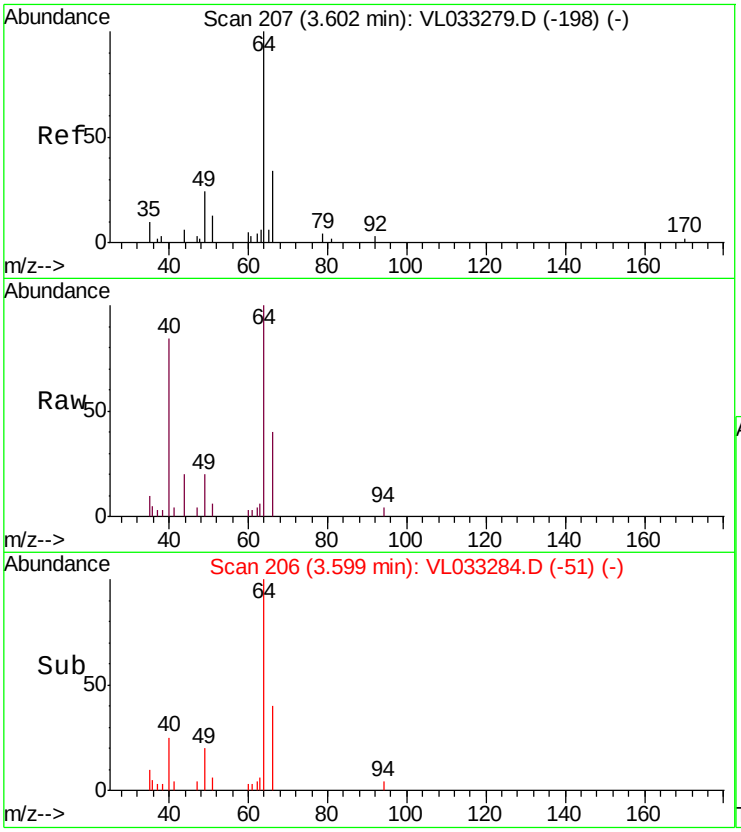


#6
Bromomethane
Concen: 0.418 ppbv
RT: 3.52 min Scan# 181
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 94 Resp: 14682

Ion	Ratio	Lower	Upper
94	100		
96	84.3	71.3	106.9



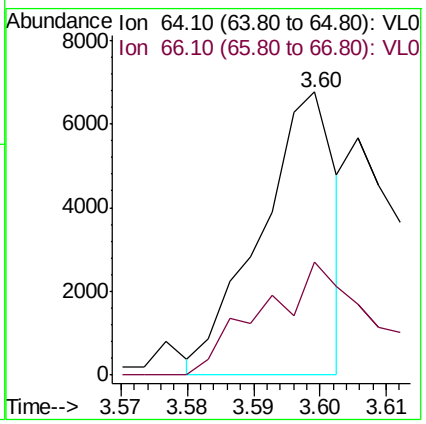


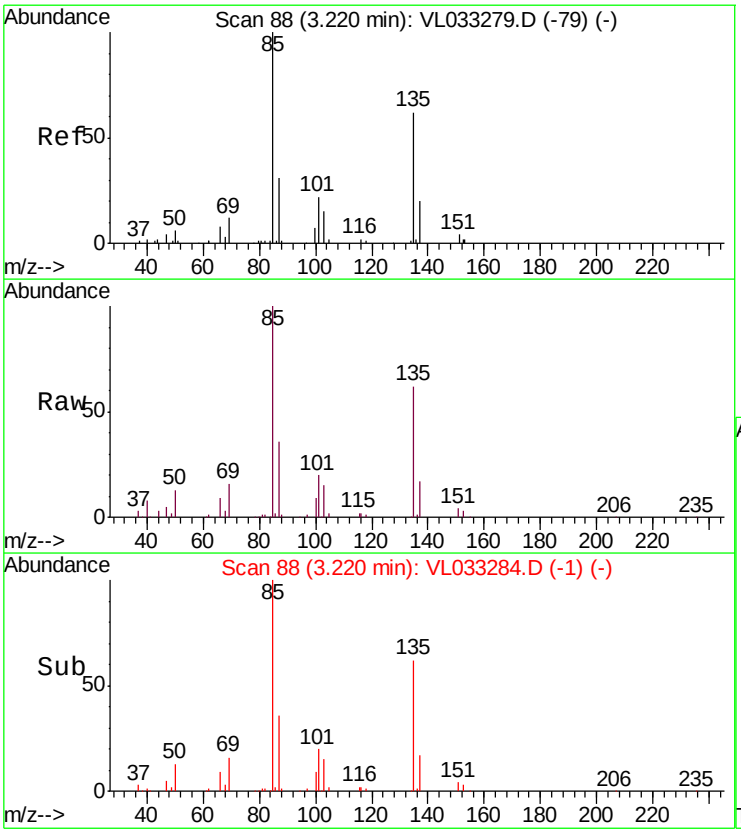
#7
Chloroethane
Concen: 0.256 ppbv
RT: 3.60 min Scan# 206
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 64 Resp: 5328

Ion	Ratio	Lower	Upper
64	100		
66	40.0	26.2	39.2#

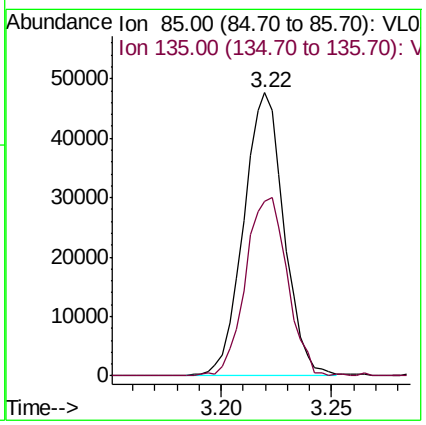


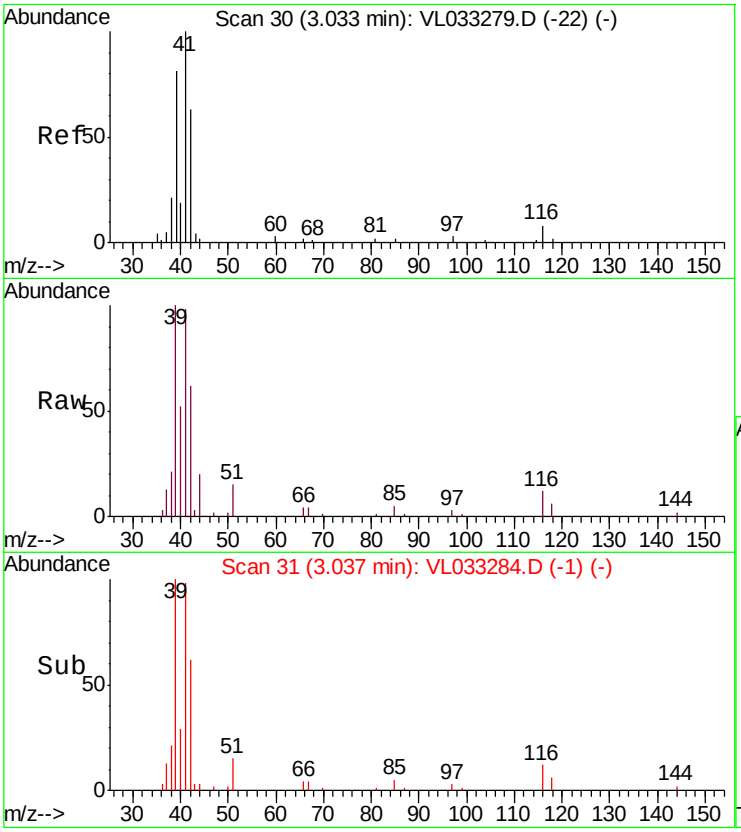


#8
Dichlorotetrafluoroethane
Concen: 0.427 ppbv
RT: 3.22 min Scan# 88
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 85 Resp: 60563

Ion	Ratio	Lower	Upper
85	100		
135	65.5	53.4	80.2



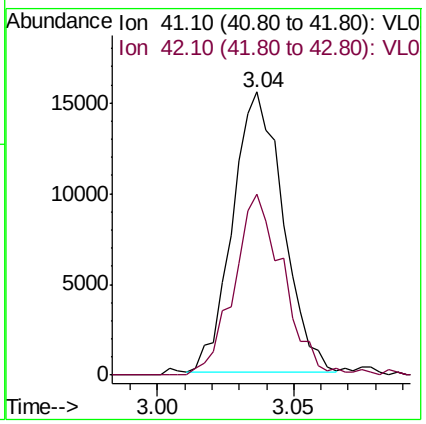


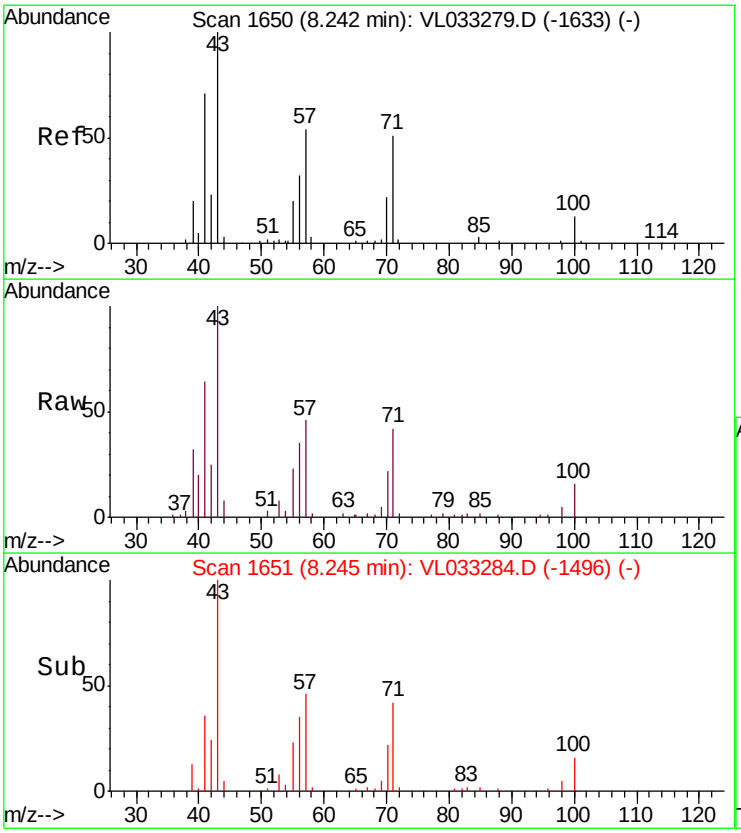
#9
Propene
Concen: 0.394 ppbv
RT: 3.04 min Scan# 31
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 41 Resp: 19792

Ion	Ratio	Lower	Upper
41	100		
42	63.6	54.6	82.0

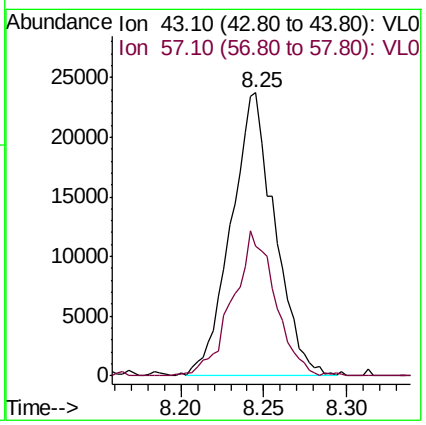


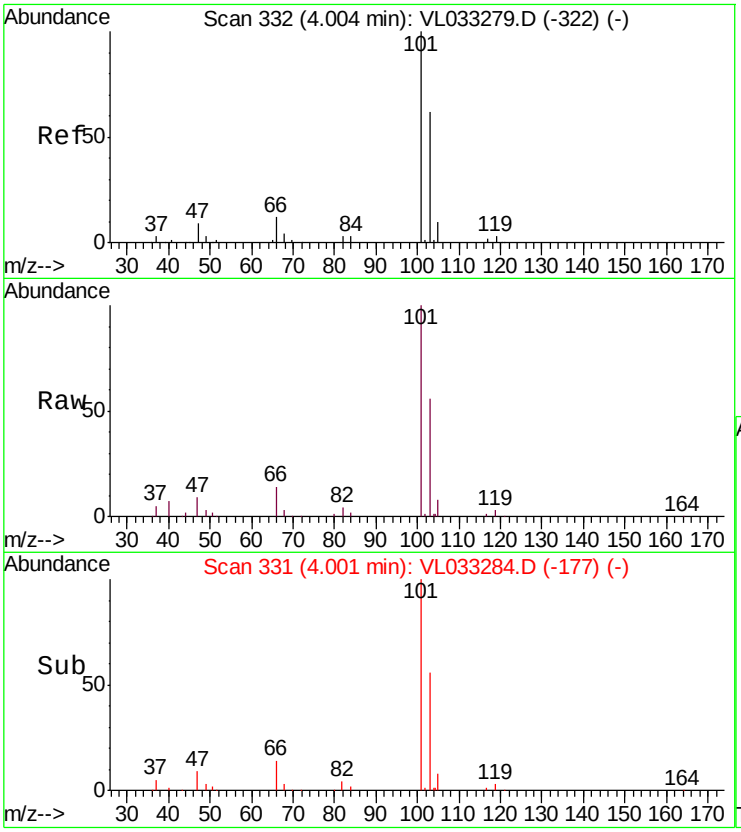


#10
Heptane
Concen: 0.385 ppbv
RT: 8.25 min Scan# 1651
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 43 Resp: 43519

Ion	Ratio	Lower	Upper
43	100		
57	50.3	39.8	59.8



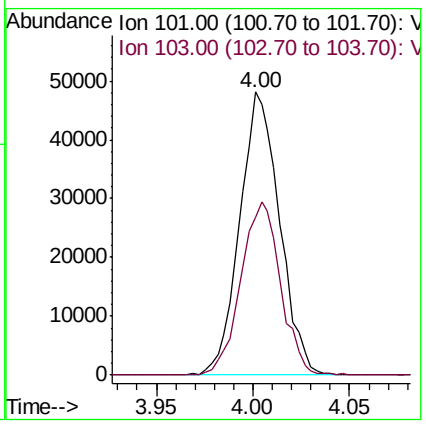


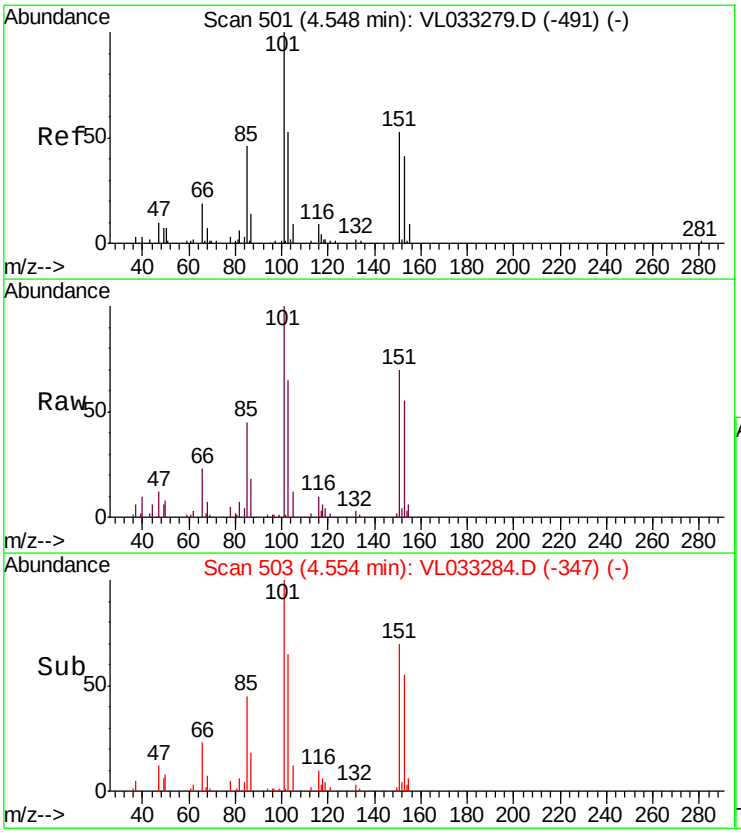
#11
Trichlorofluoromethane
Concen: 0.414 ppbv
RT: 4.00 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:101 Resp: 68682

Ion	Ratio	Lower	Upper
101	100		
103	56.0	51.8	77.8

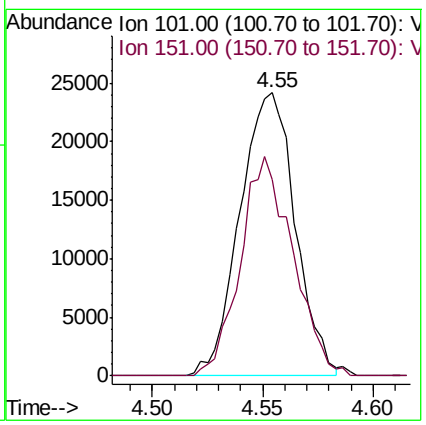


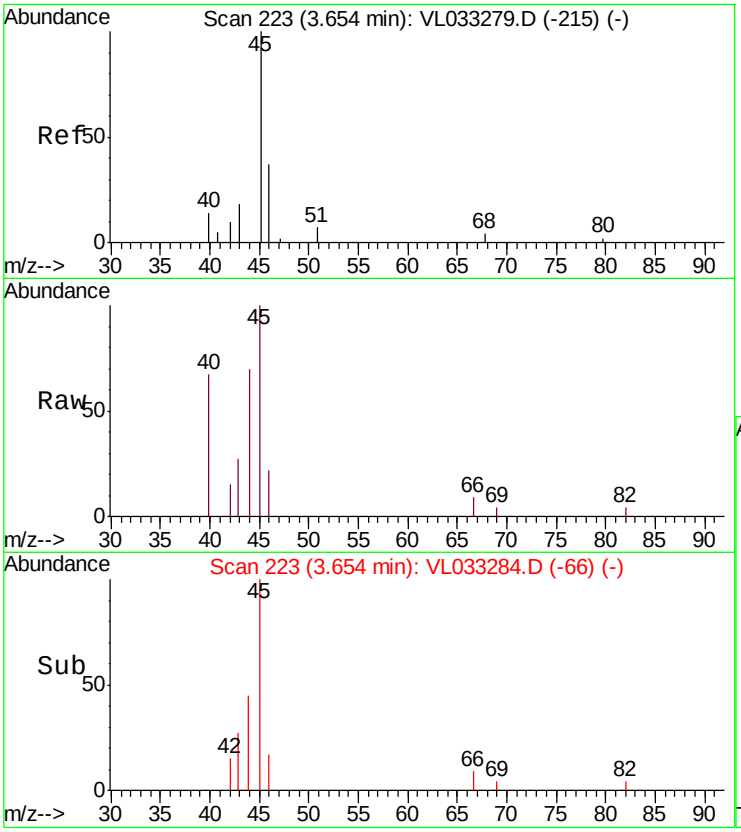


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.442 ppbv
RT: 4.55 min Scan# 503
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:101 Resp: 42001

Ion	Ratio	Lower	Upper
101	100		
151	73.5	56.9	85.3



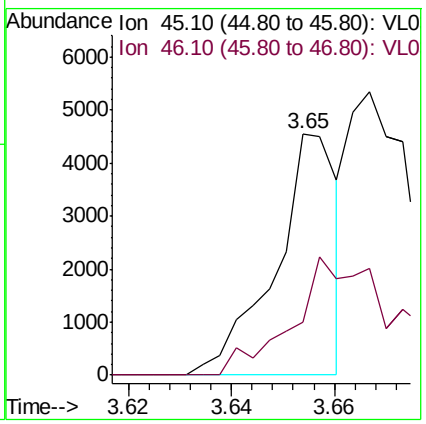


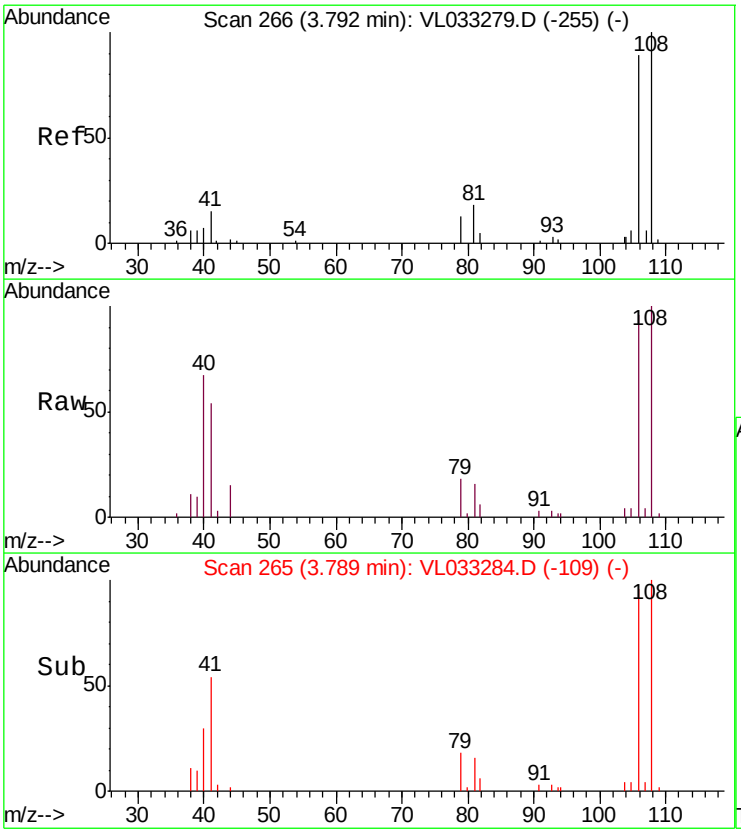
#13
Ethanol
Concen: 0.247 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 45 Resp: 3782

Ion	Ratio	Lower	Upper
45	100		
46	98.7	13.9	55.7#

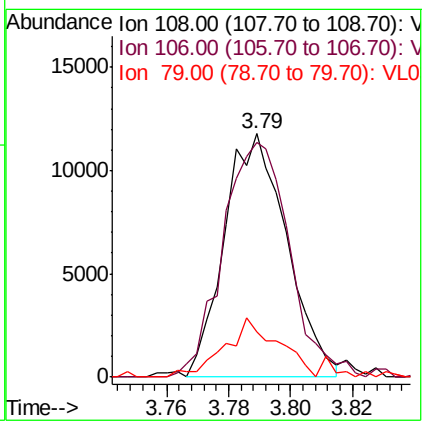


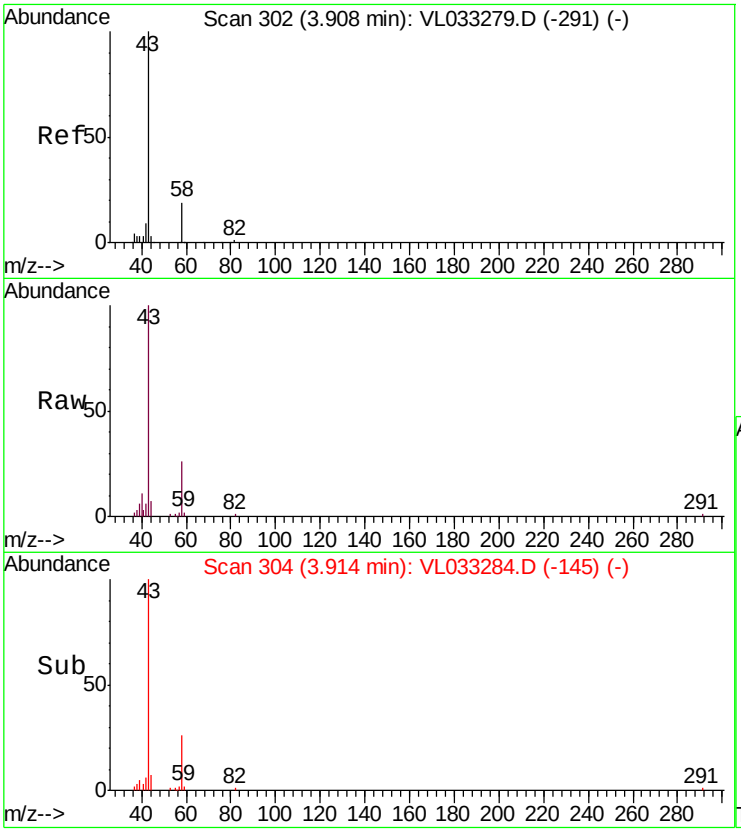


#14
Bromoethene
Concen: 0.374 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:108 Resp: 16557

Ion	Ratio	Lower	Upper
108	100		
106	103.6	85.9	128.9
79	23.6	14.9	22.3#



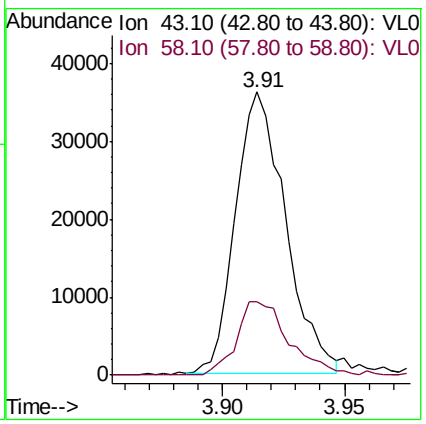


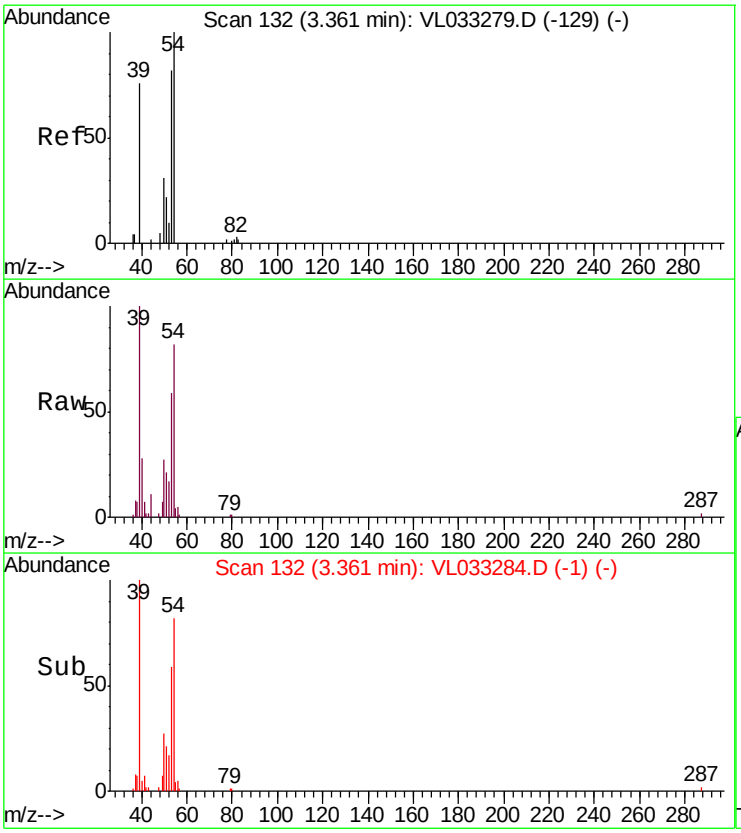
#15
Acetone
Concen: 0.405 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 43 Resp: 51571

Ion	Ratio	Lower	Upper
43	100		
58	27.5	21.1	31.7

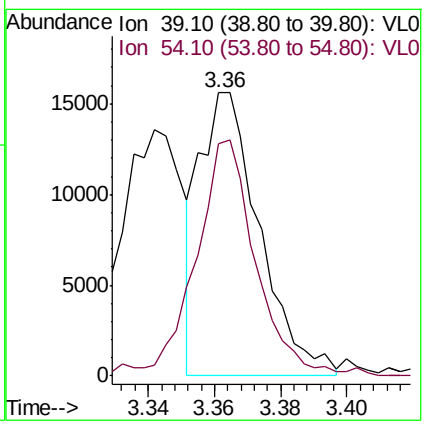


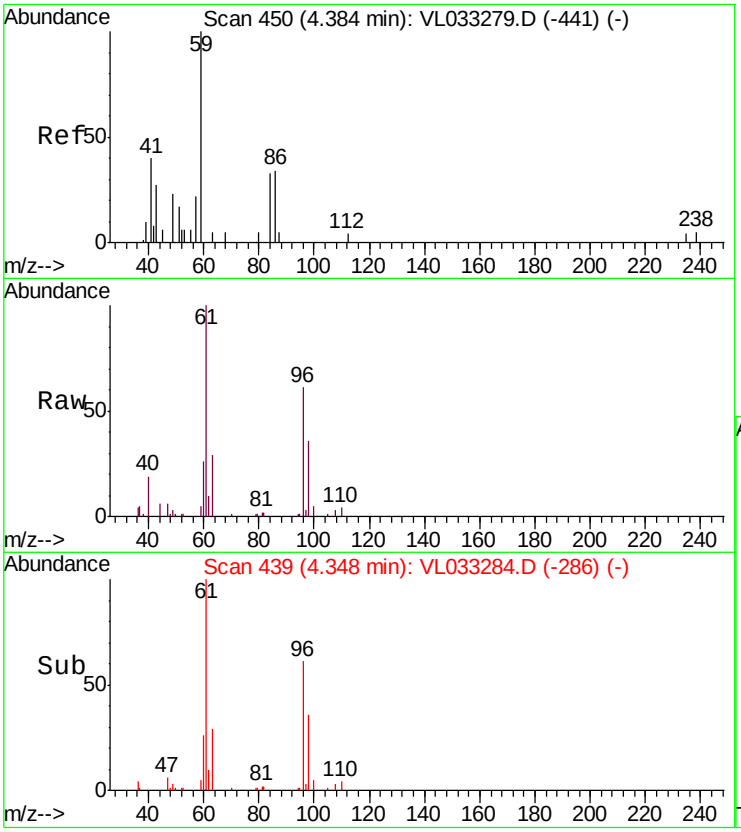


#16
1,3-Butadiene
Concen: 0.423 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 39 Resp: 19446

Ion	Ratio	Lower	Upper
39	100		
54	85.0	76.6	114.8



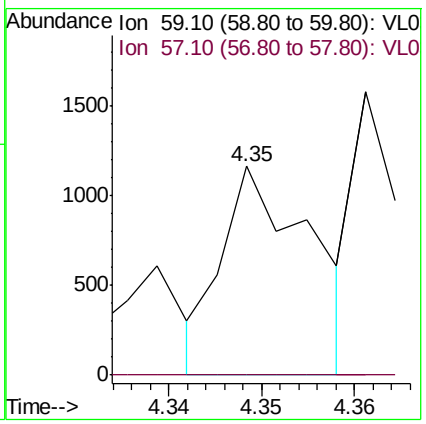


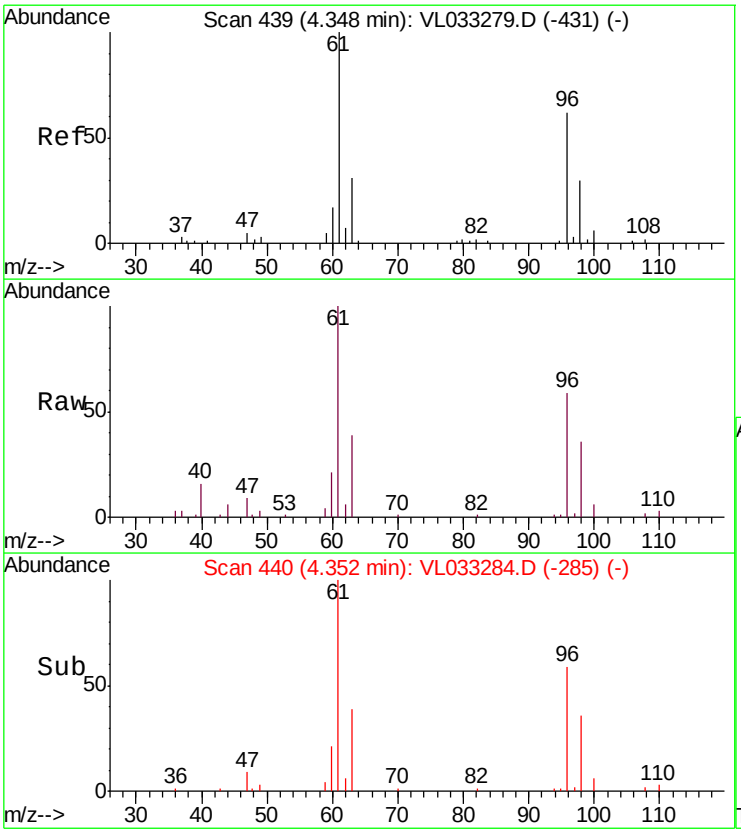
#17
tert-Butyl alcohol
Concen: 0.045 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 59 Resp: 771

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.5	11.3#

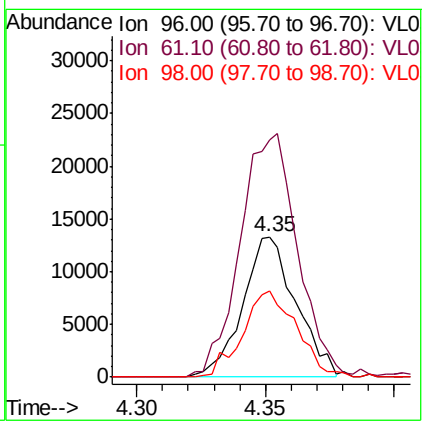


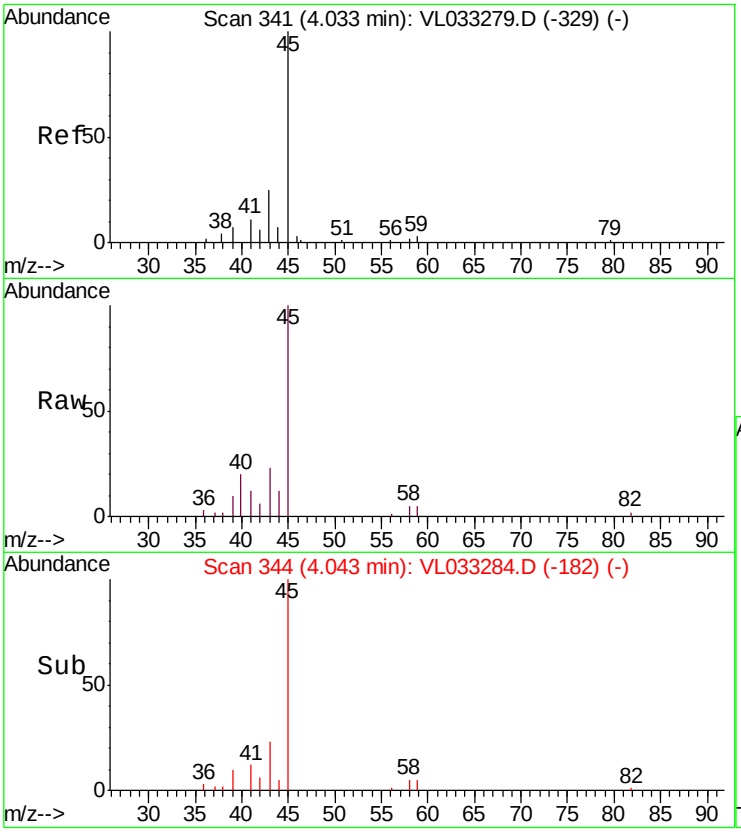


#18
1,1-Dichloroethene
Concen: 0.456 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 96 Resp: 19170

Ion	Ratio	Lower	Upper
96	100		
61	169.5	158.9	238.3
98	61.1	52.4	78.6



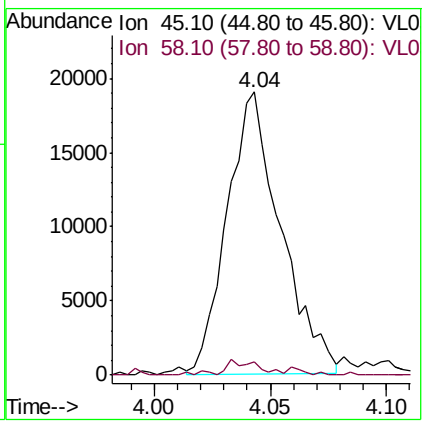


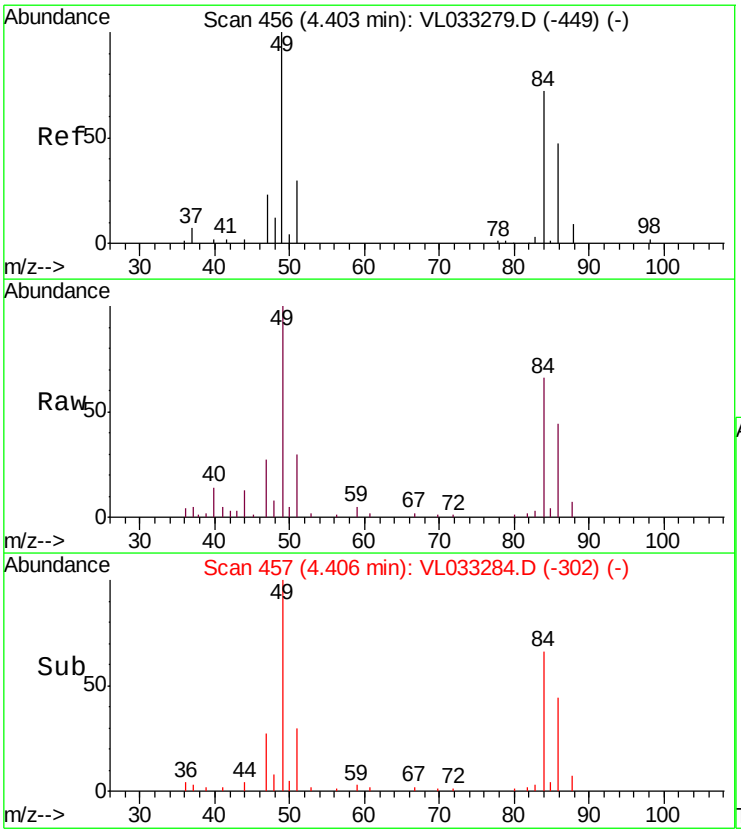
#19
Isopropyl Alcohol
Concen: 0.398 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.02 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 45 Resp: 30597

Ion	Ratio	Lower	Upper
45	100		
58	4.2	1.4	2.2#

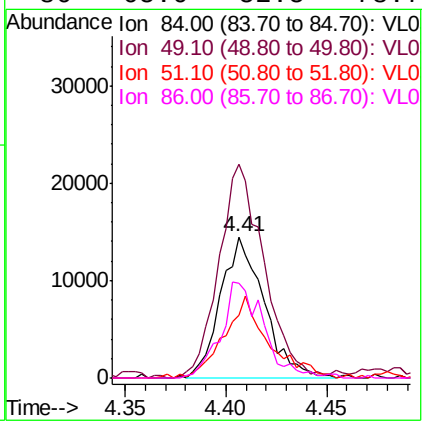


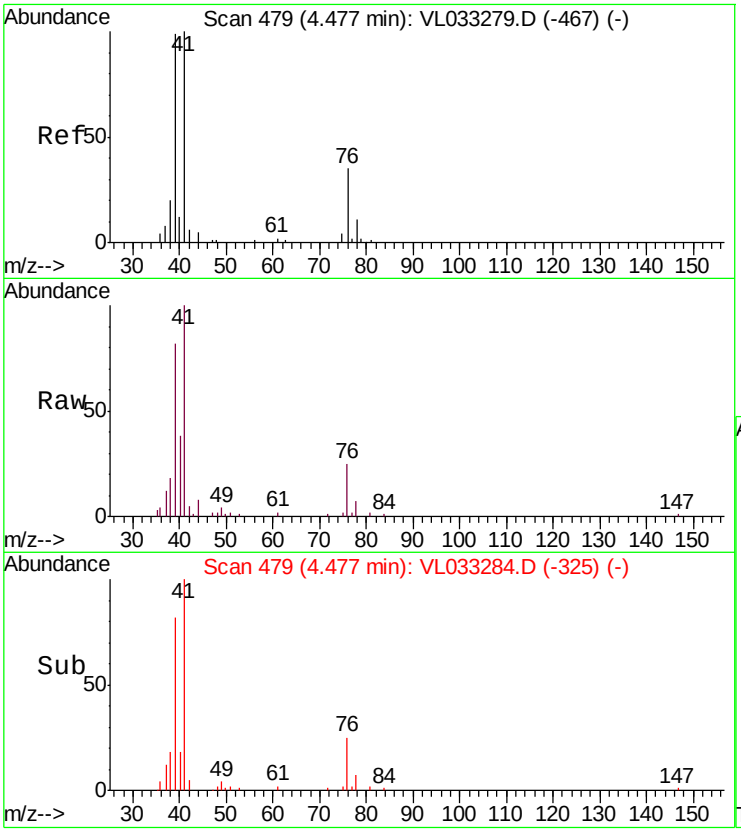


#20
Methylene Chloride
Concen: 0.516 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 84 Resp: 21864

Ion	Ratio	Lower	Upper
84	100		
49	147.1	120.3	180.5
51	44.9	36.2	54.4
86	65.0	52.5	78.7



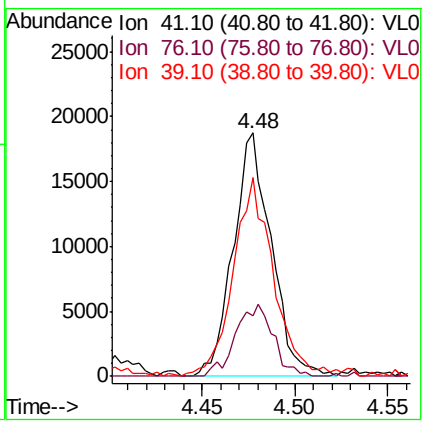


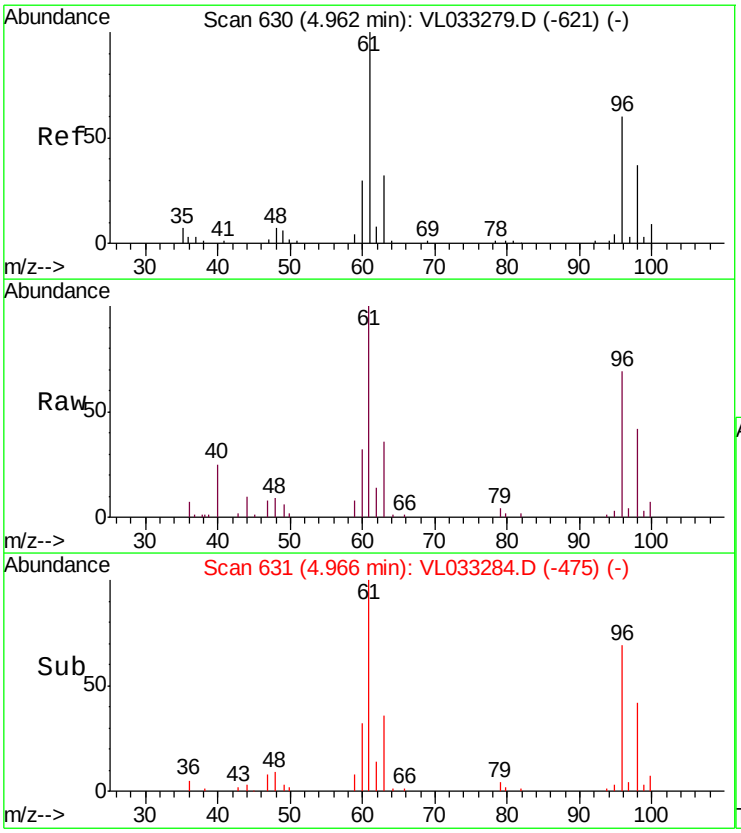
#21
Allyl Chloride
Concen: 0.422 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Tgt Ion: 41 Resp: 26721

Ion	Ratio	Lower	Upper
41	100		
76	29.1	25.0	37.4
39	88.4	64.2	96.4

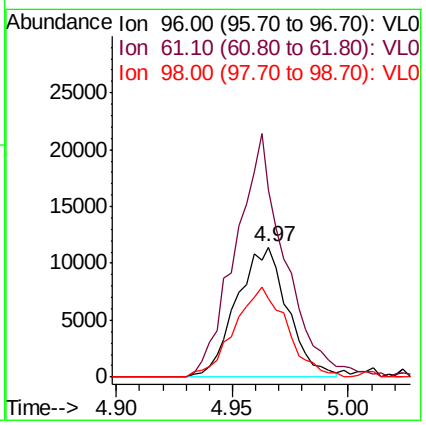


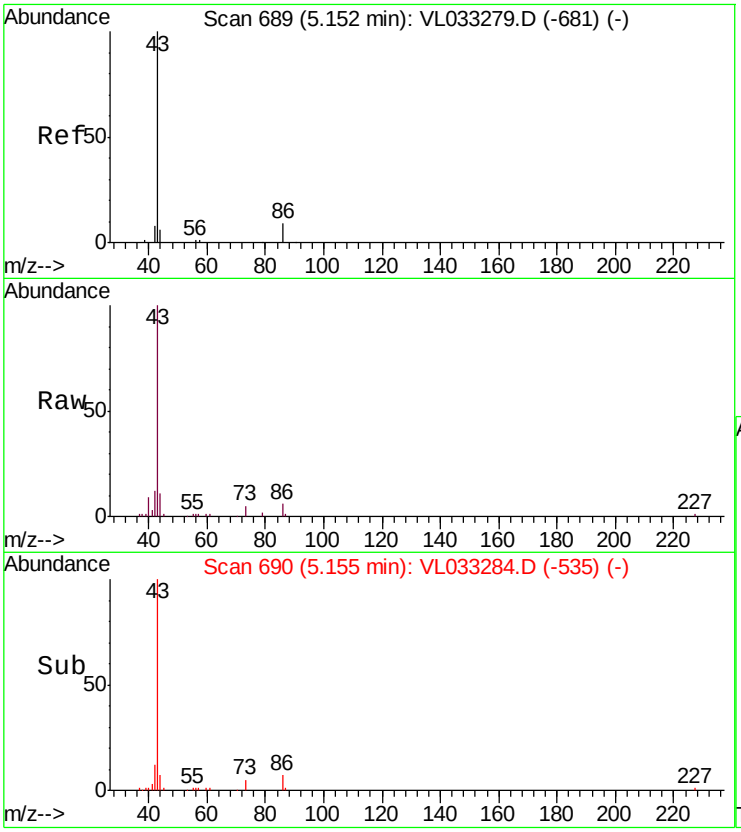


#22
trans-1,2-Dichloroethene
Concen: 0.390 ppbv
RT: 4.97 min Scan# 631
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 96 Resp: 17488

Ion	Ratio	Lower	Upper
96	100		
61	144.7	131.6	197.4
98	60.9	54.1	81.1



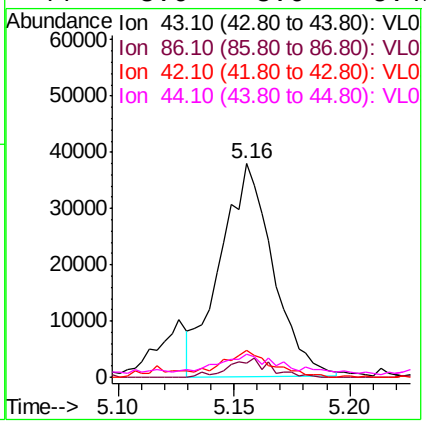


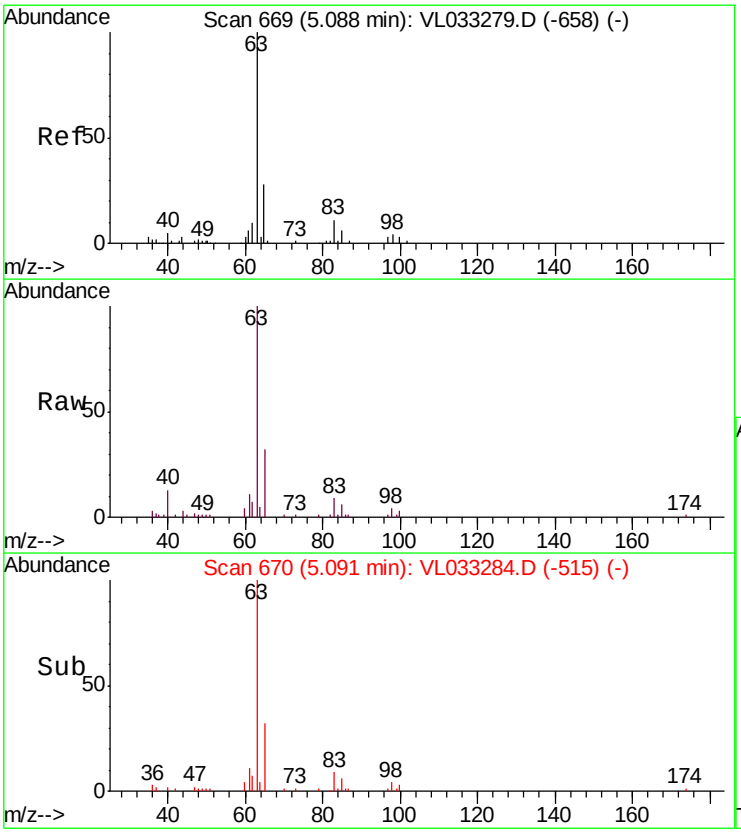
#23
Vinyl Acetate
Concen: 0.374 ppbv
RT: 5.16 min Scan# 690
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Tgt Ion: 43 Resp: 59629

Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.5	8.3
42	12.6	7.8	11.6#
44	8.6	3.6	5.4#

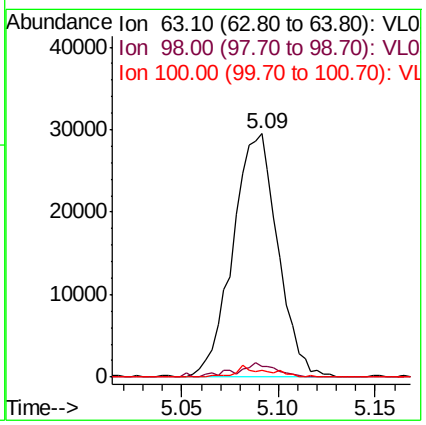


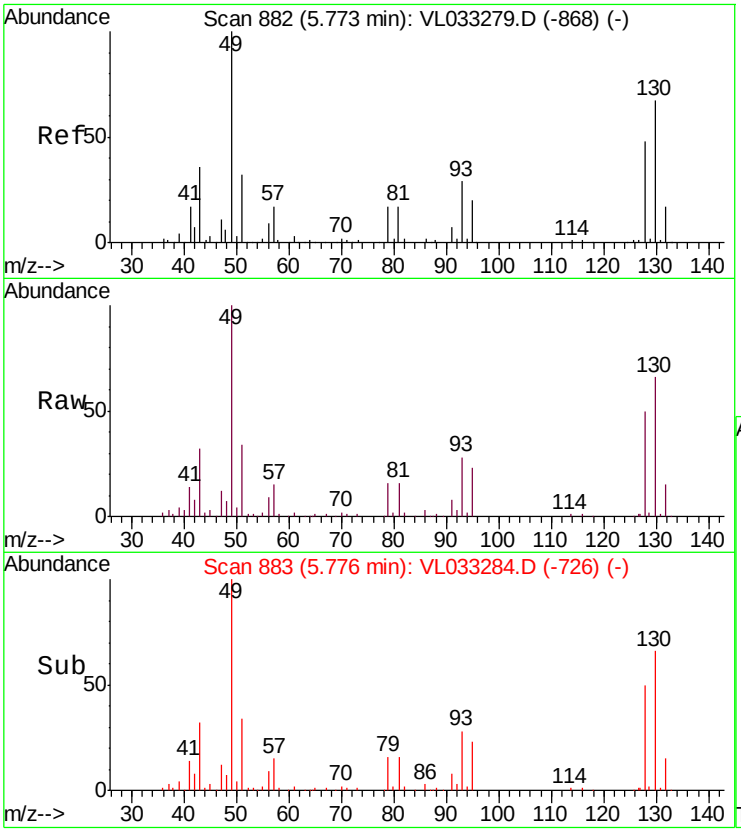


#24
1,1-Dichloroethane
Concen: 0.413 ppbv
RT: 5.09 min Scan# 670
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 63 Resp: 47833

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.2	6.6
100	2.7	1.5	4.4



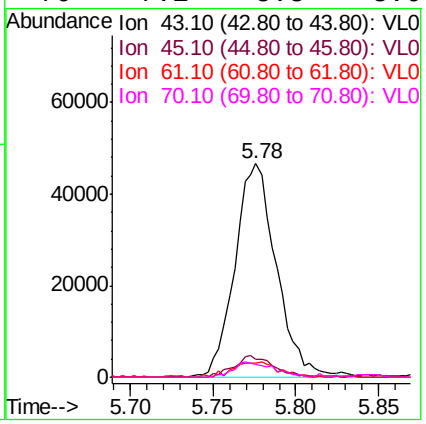


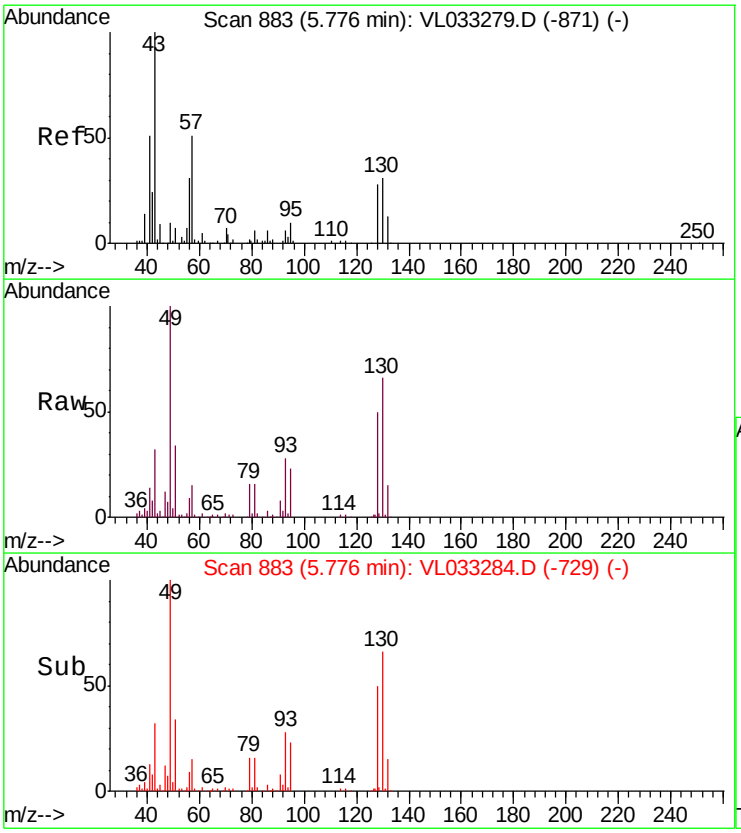
#25
Ethyl Acetate
Concen: 0.413 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Tgt Ion: 43 Resp: 80952

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	7.9	7.3	10.9
70	7.1	5.8	8.6

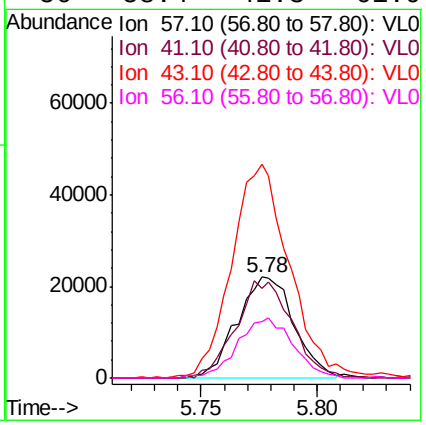


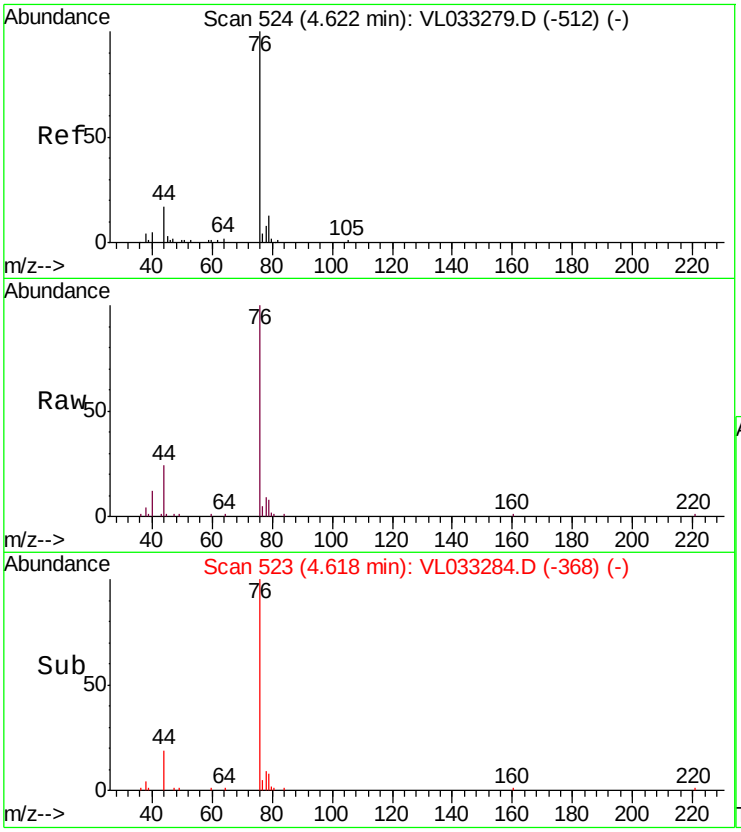


#26
Hexane
Concen: 0.409 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 57 Resp: 37650

Ion	Ratio	Lower	Upper
57	100		
41	95.1	70.7	106.1
43	218.7	178.6	267.8
56	58.4	41.3	61.9



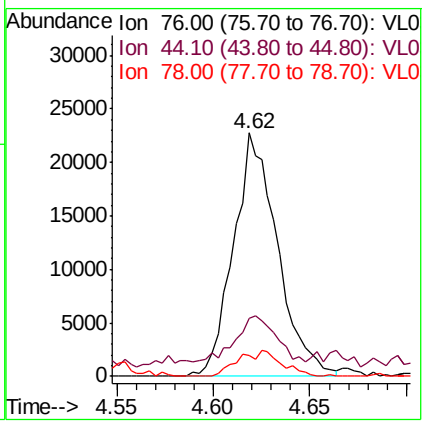


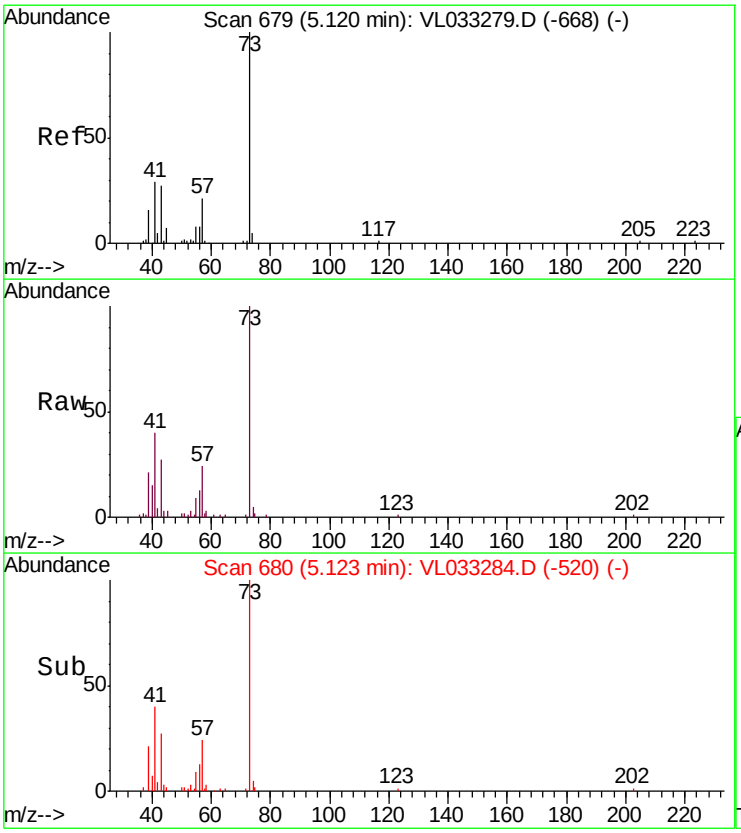
#27
Carbon Disulfide
Concen: 0.369 ppbv
RT: 4.62 min Scan# 523
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Tgt Ion: 76 Resp: 36095

Ion	Ratio	Lower	Upper
76	100		
44	27.9	15.1	22.7#
78	10.5	7.4	11.0

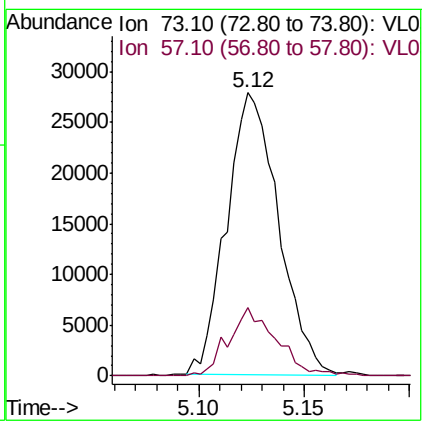


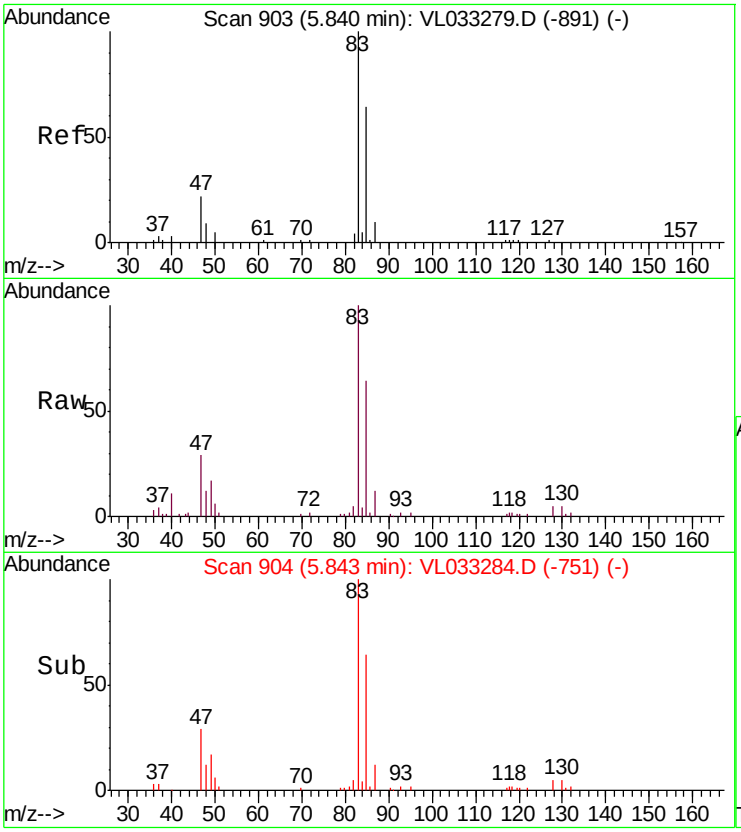


#28
Methyl tert-Butyl Ether
Concen: 0.364 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 73 Resp: 47647

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9



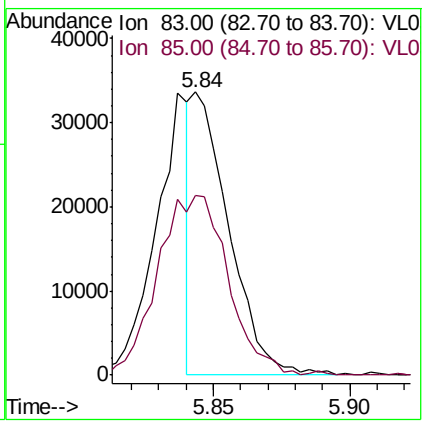


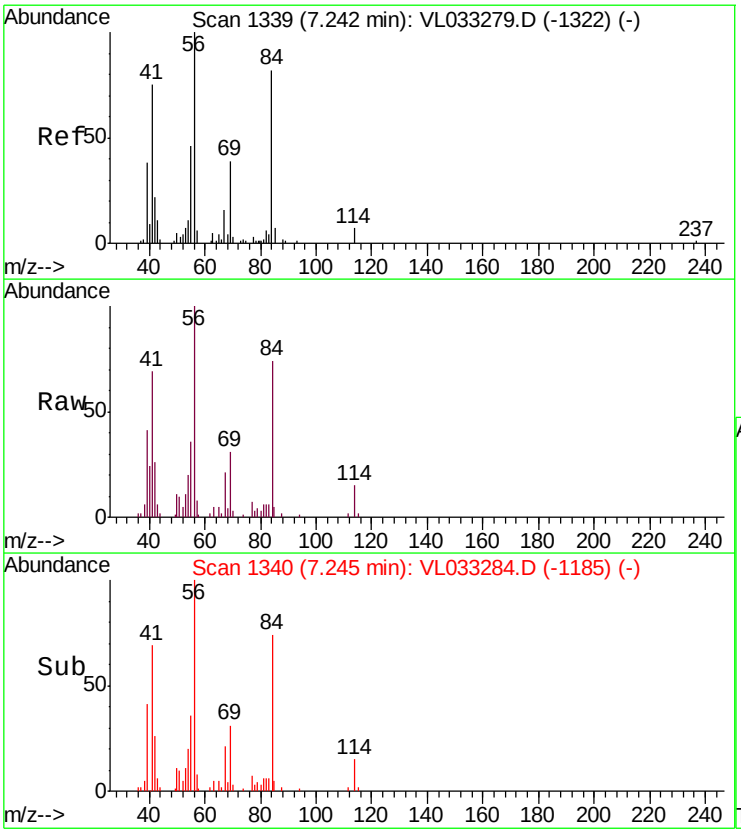
#29
Chloroform
Concen: 0.225 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 83 Resp: 31560

Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.5	78.7

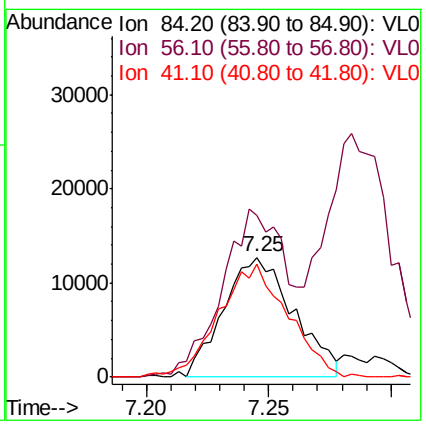


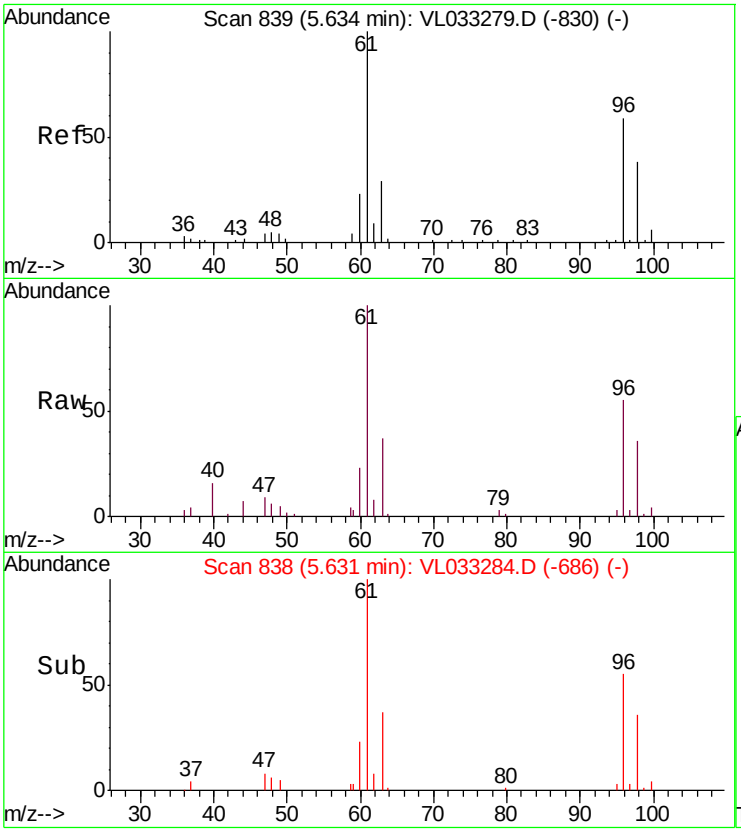


#30
Cyclohexane
Concen: 0.355 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 84 Resp: 25365

Ion	Ratio	Lower	Upper
84	100		
56	126.3	112.0	168.0
41	93.1	69.9	104.9



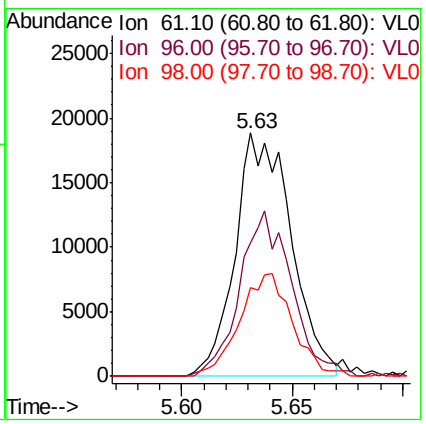


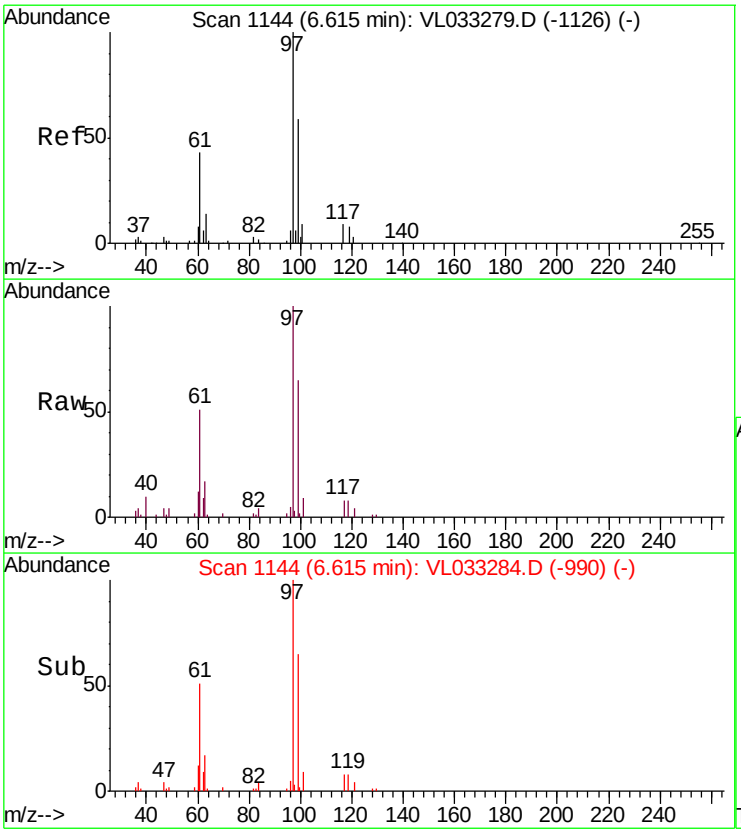
#31
cis-1,2-Dichloroethene
Concen: 0.376 ppbv
RT: 5.63 min Scan# 838
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 61 Resp: 33206

Ion	Ratio	Lower	Upper
61	100		
96	54.7	51.8	77.8
98	37.3	32.9	49.3

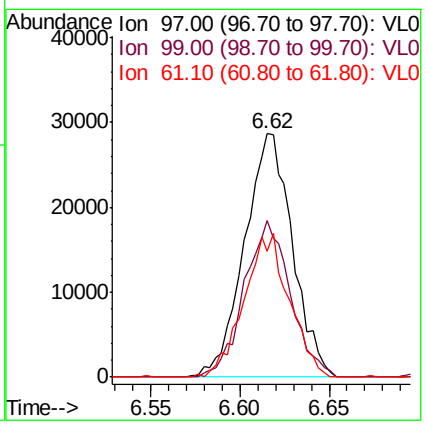


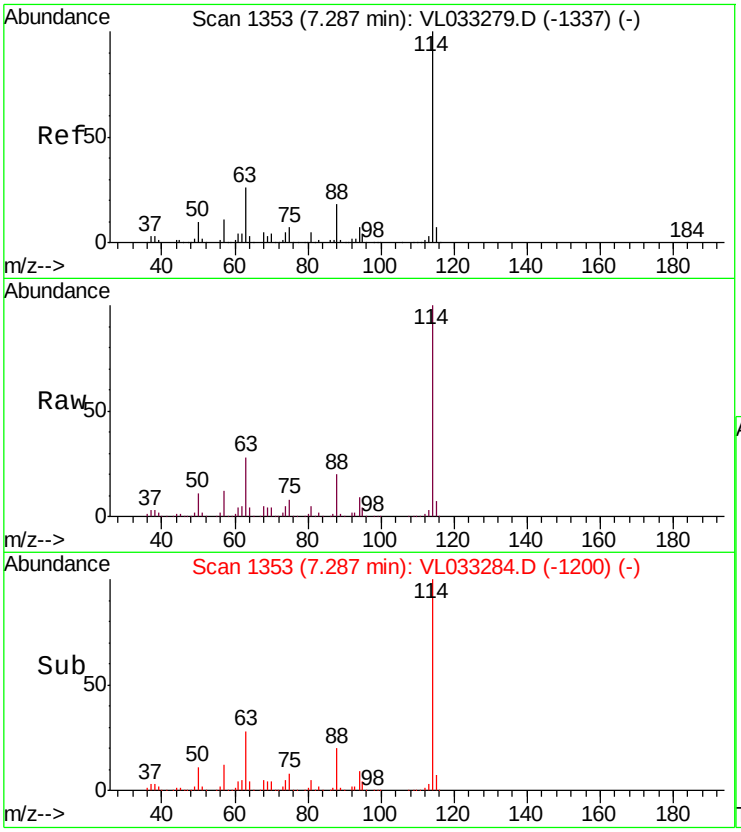


#32
1,1,1-Trichloroethane
Concen: 0.393 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 97 Resp: 53677

Ion	Ratio	Lower	Upper
97	100		
99	61.9	51.7	77.5
61	55.6	39.7	59.5



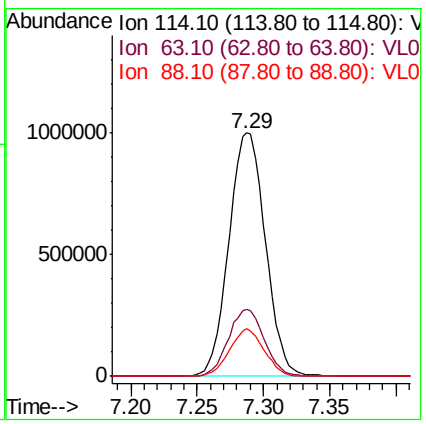


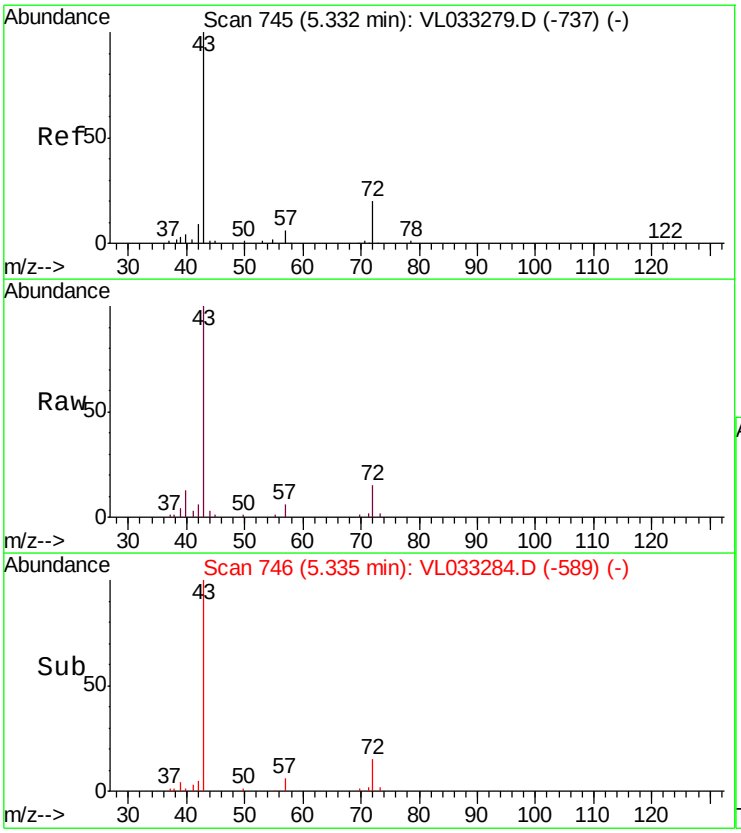
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:114 Resp: 1911116

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.5	32.3
88	18.5	14.6	22.0

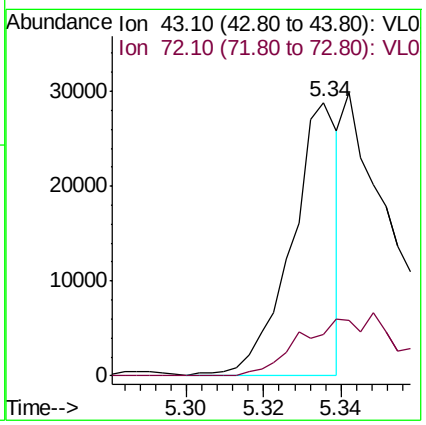


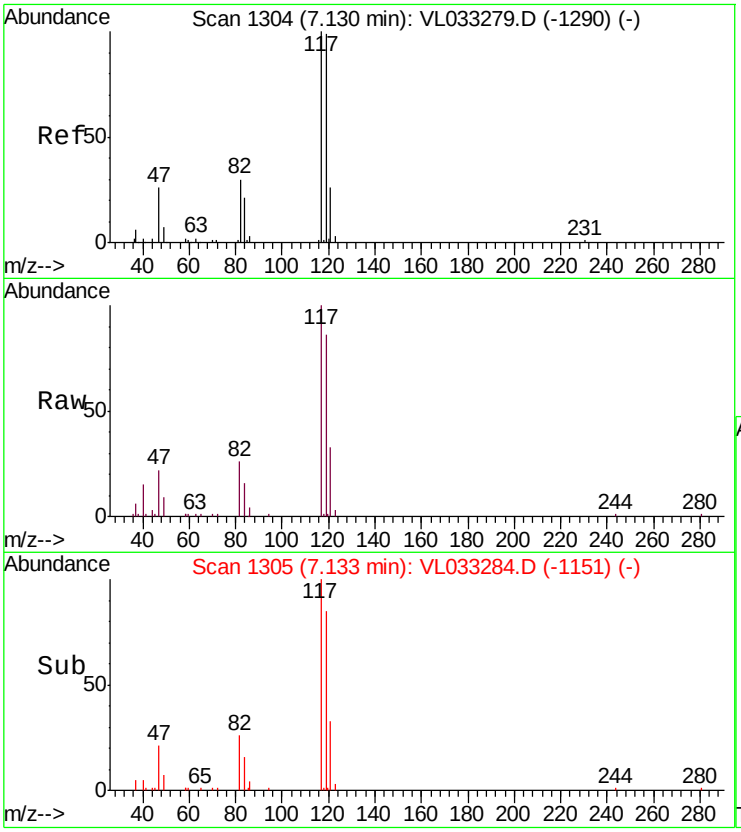


#34
2-Butanone
Concen: 0.192 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 43 Resp: 24214

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.0	25.6#



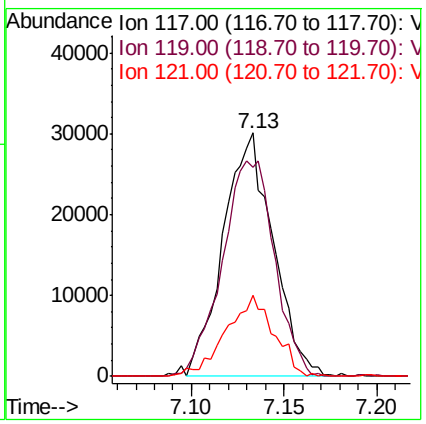


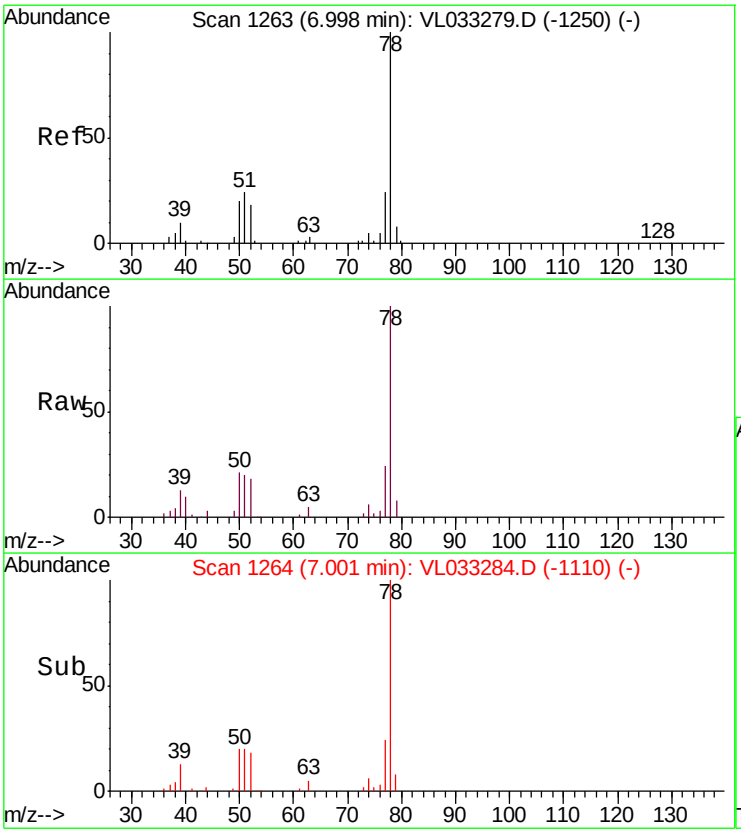
#35
Carbon Tetrachloride
Concen: 0.402 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:117 Resp: 56088

Ion	Ratio	Lower	Upper
117	100		
119	85.9	77.4	116.0
121	33.2	24.9	37.3

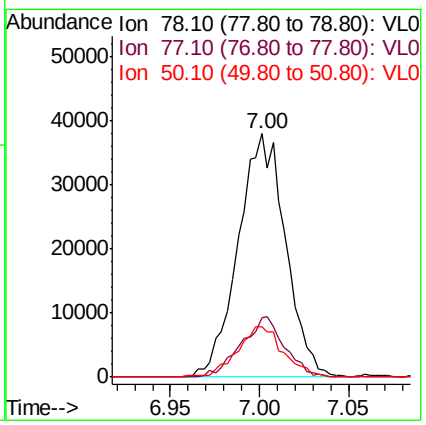


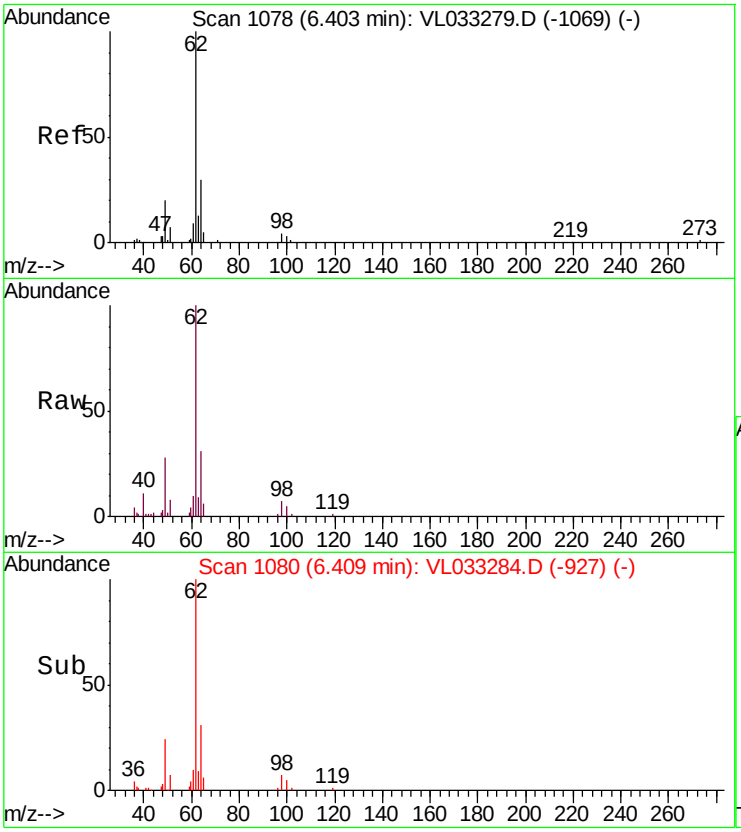


#36
Benzene
Concen: 0.399 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 78 Resp: 70383

Ion	Ratio	Lower	Upper
78	100		
77	24.5	17.7	26.5
50	20.8	15.7	23.5



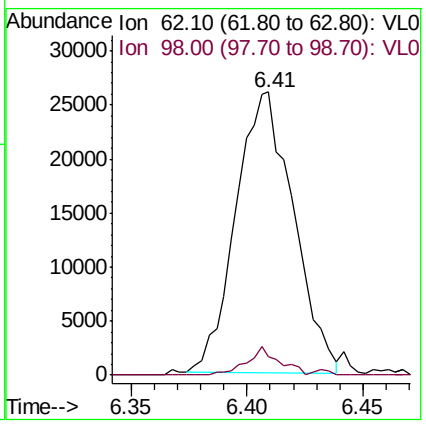


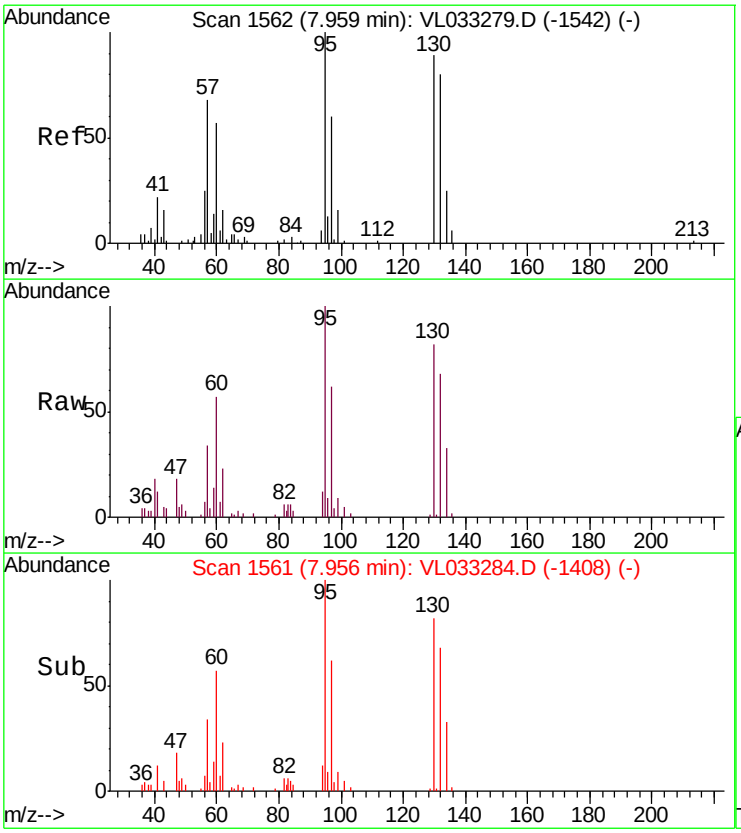
#37
1,2-Dichloroethane
Concen: 0.423 ppbv
RT: 6.41 min Scan# 1080
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 62 Resp: 44765

Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.5	6.7

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

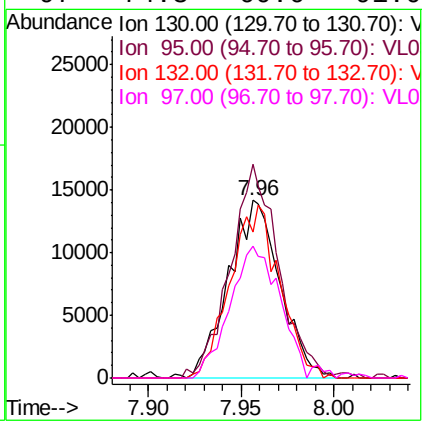


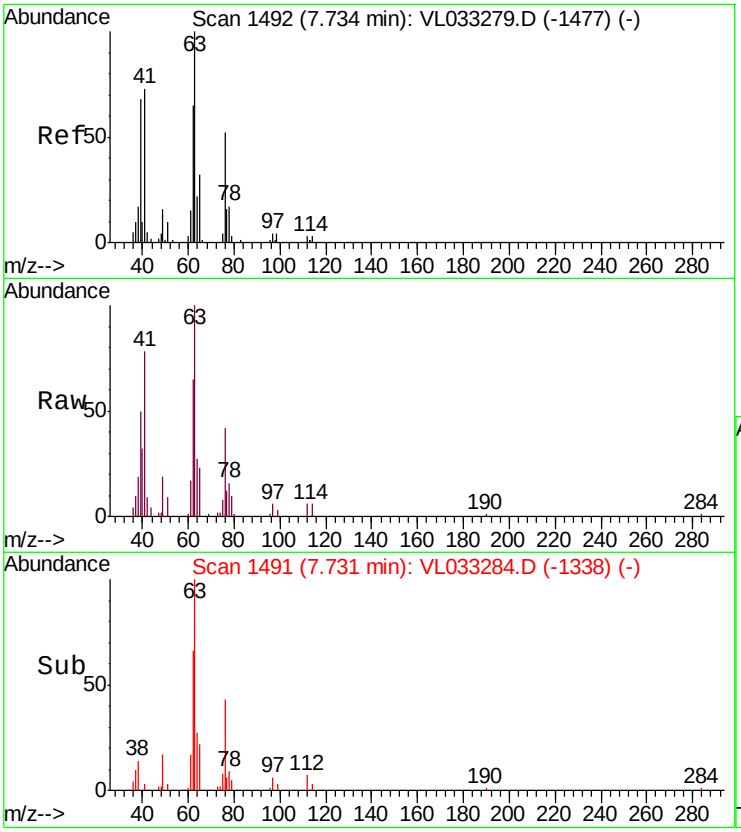


#38
Trichloroethene
Concen: 0.396 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:130 Resp: 27196

Ion	Ratio	Lower	Upper
130	100		
95	118.3	93.3	139.9
132	82.0	75.4	113.2
97	74.3	60.6	91.0



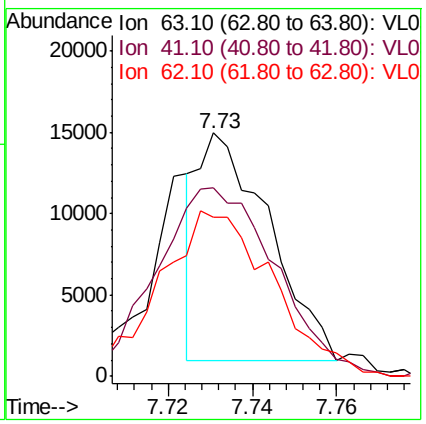


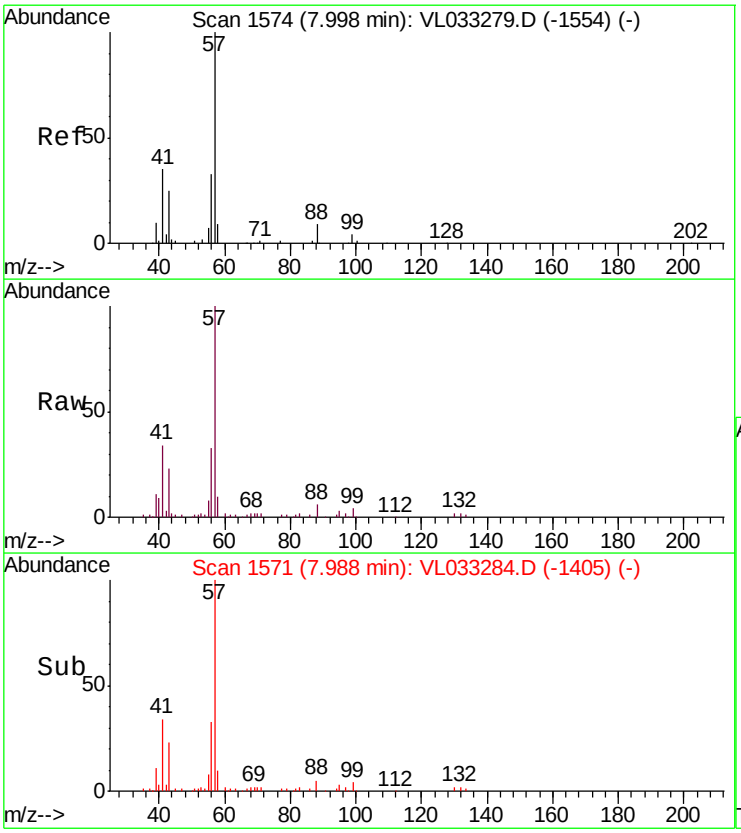
#39
1,2-Dichloropropane
Concen: 0.245 ppbv
RT: 7.73 min Scan# 1491
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 63 Resp: 16278

Ion	Ratio	Lower	Upper
63	100		
41	75.5	58.3	87.5
62	59.7	55.3	82.9

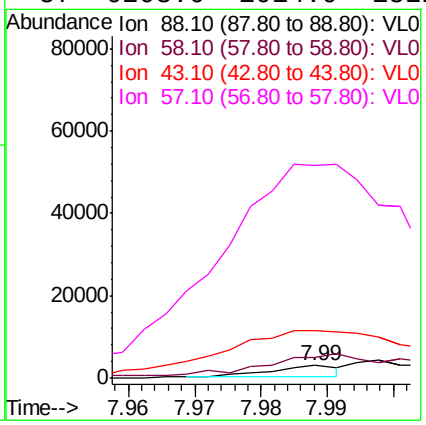


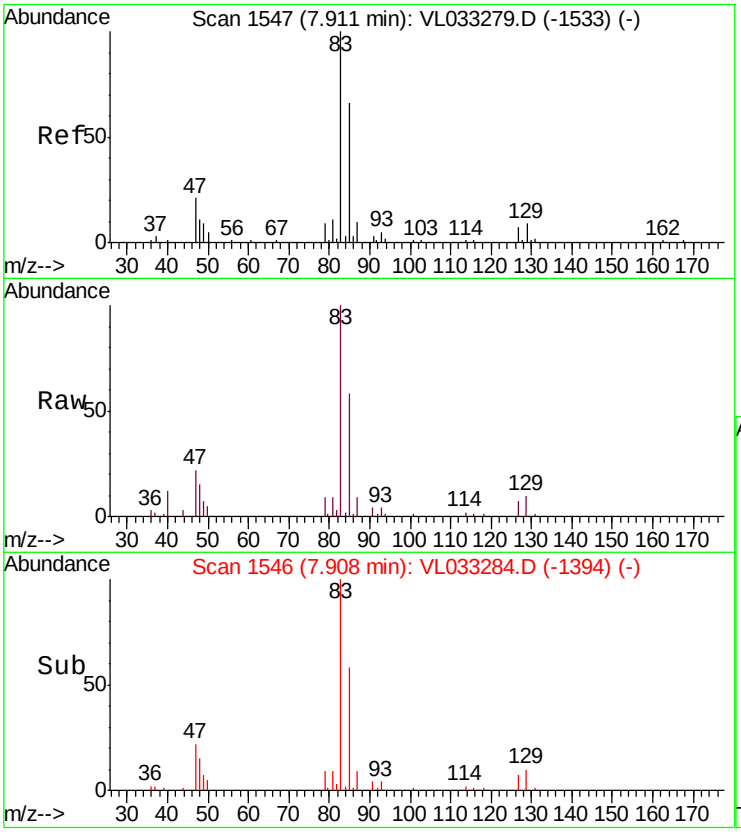


#40
1,4-Dioxane
Concen: 0.077 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.03 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 88 Resp: 1916

Ion	Ratio	Lower	Upper
88	100		
58	767.0	107.0	160.6#
43	1505.5	230.2	345.4#
57	6203.0	1014.9	1522.3#



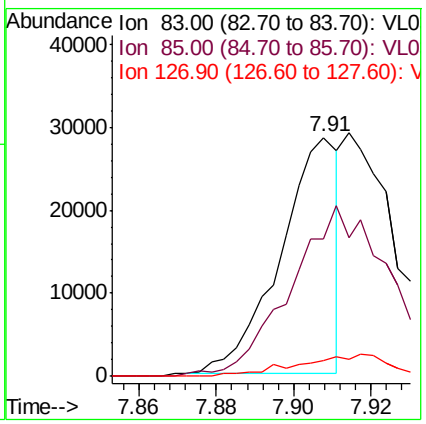


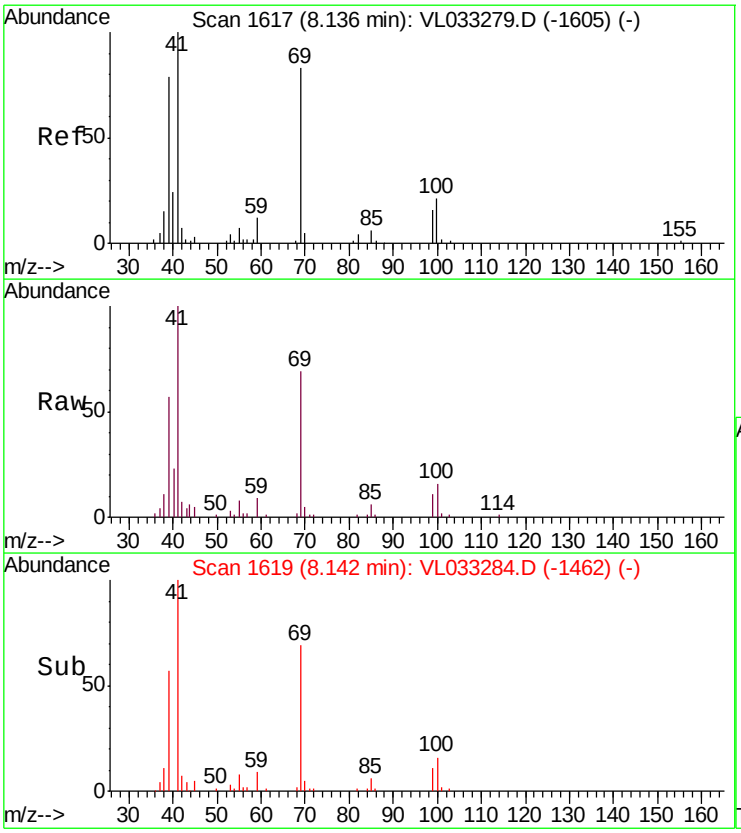
#42
Bromodichloromethane
Concen: 0.204 ppbv
RT: 7.91 min Scan# 1546
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 83 Resp: 29652

Ion	Ratio	Lower	Upper
83	100		
85	56.8	51.0	76.4
127	6.6	6.0	9.0

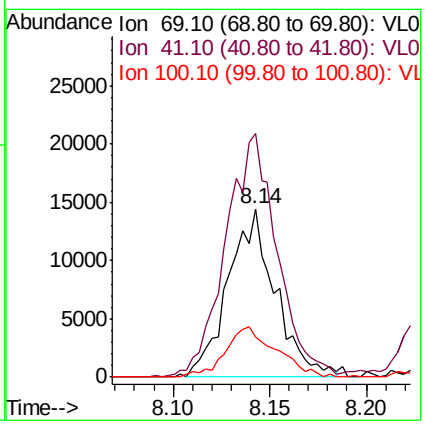


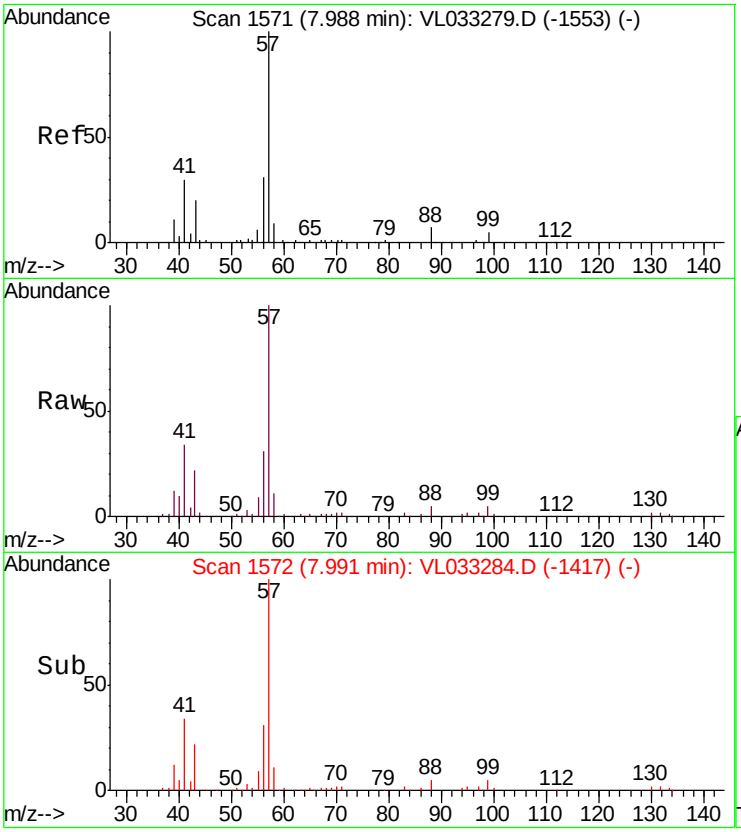


#43
Methyl Methacrylate
Concen: 0.354 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 69 Resp: 24349

Ion	Ratio	Lower	Upper
69	100		
41	158.8	121.0	181.4
100	32.1	24.4	36.6



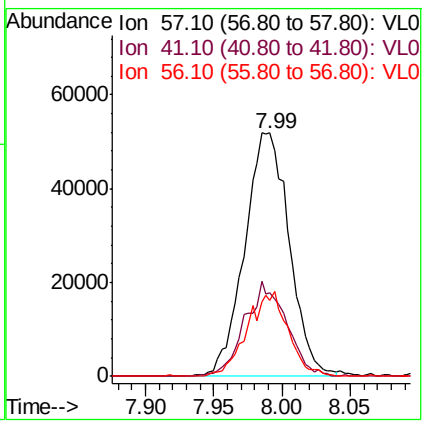


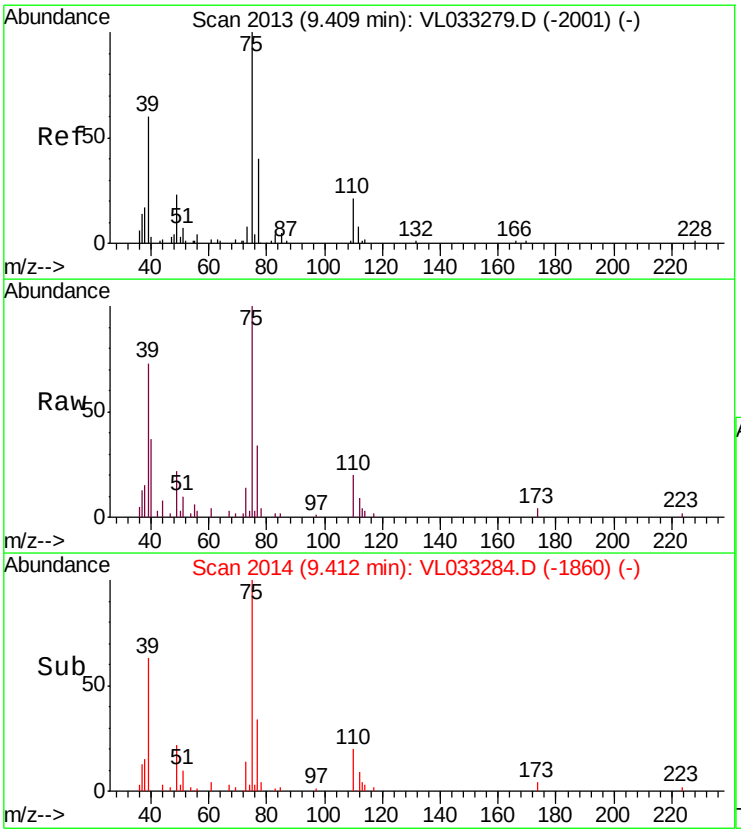
#44
2,2,4-Trimethylpentane
Concen: 0.394 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 57 Resp: 117893

Ion	Ratio	Lower	Upper
57	100		
41	36.3	26.2	39.2
56	31.9	24.8	37.2

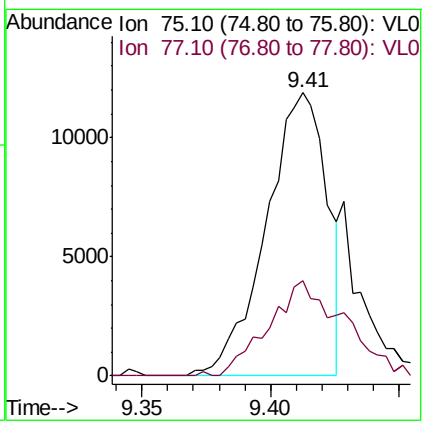


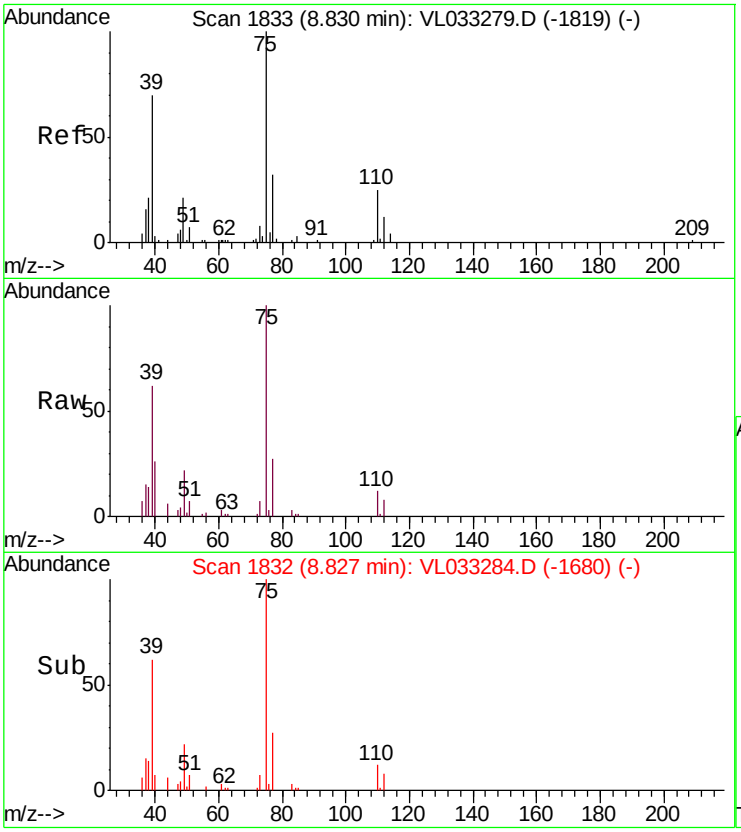


#45
t-1,3-Dichloropropene
Concen: 0.231 ppbv
RT: 9.41 min Scan# 2014
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 75 Resp: 19549

Ion	Ratio	Lower	Upper
75	100		
77	33.5	24.4	36.6



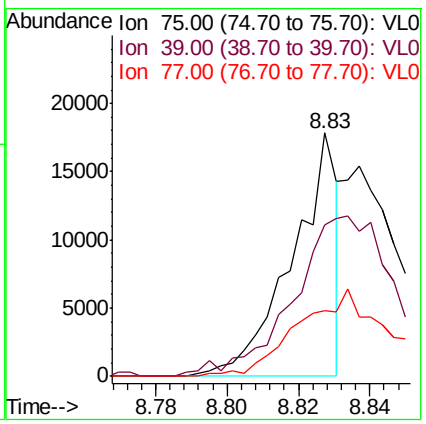


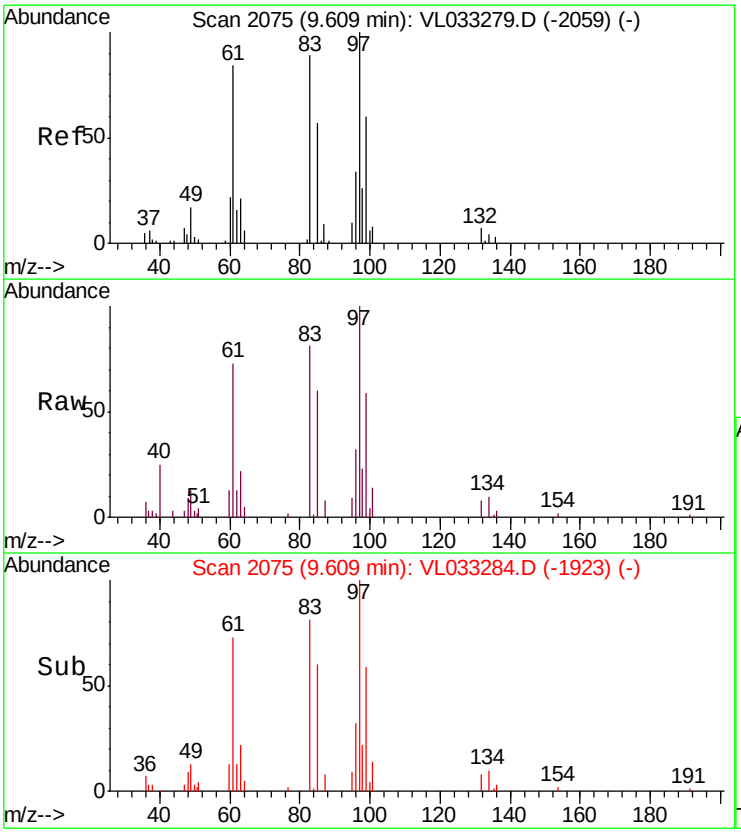
#46
cis-1,3-Dichloropropene
Concen: 0.158 ppbv
RT: 8.83 min Scan# 1832
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Tgt Ion: 75 Resp: 15682

Ion	Ratio	Lower	Upper
75	100		
39	60.3	54.2	81.2
77	26.7	24.5	36.7

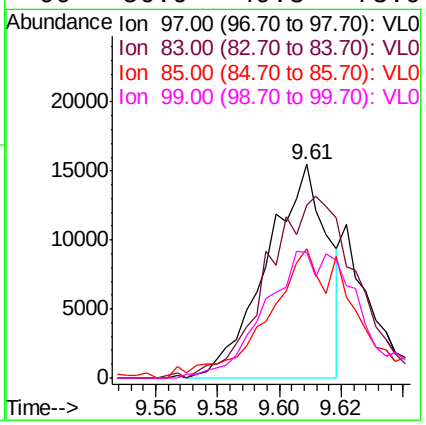


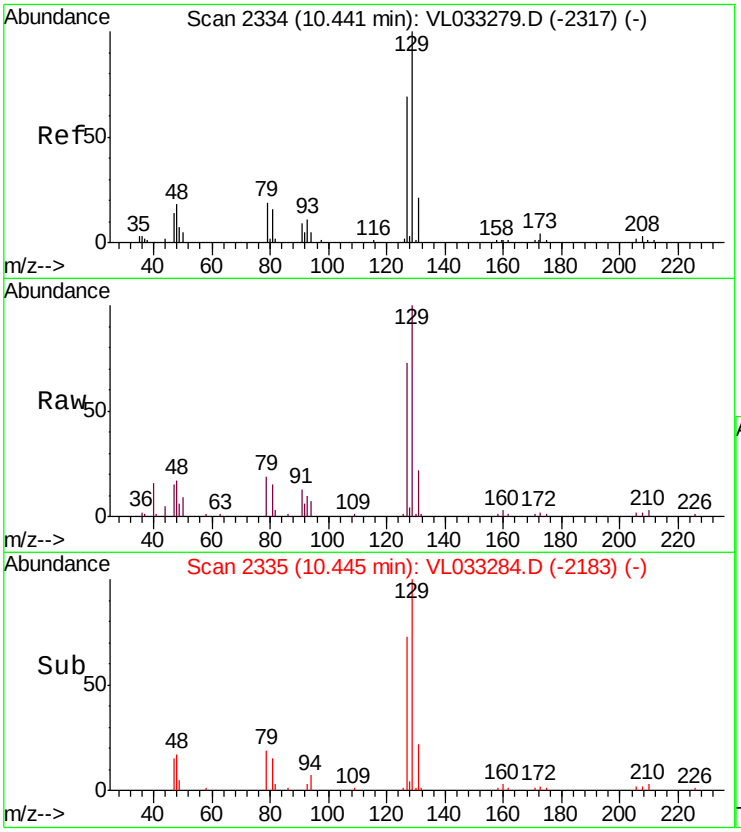


#47
1,1,2-Trichloroethane
Concen: 0.299 ppbv
RT: 9.61 min Scan# 2075
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 97 Resp: 21201

Ion	Ratio	Lower	Upper
97	100		
83	80.8	71.0	106.4
85	57.8	48.2	72.4
99	56.9	49.3	73.9



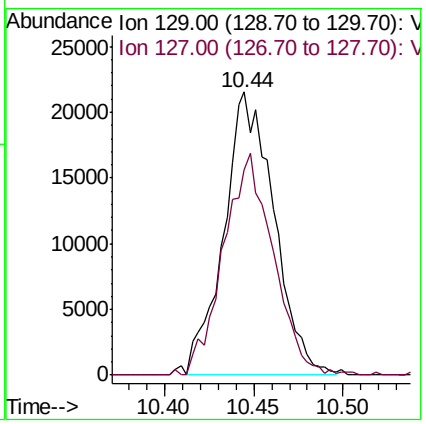


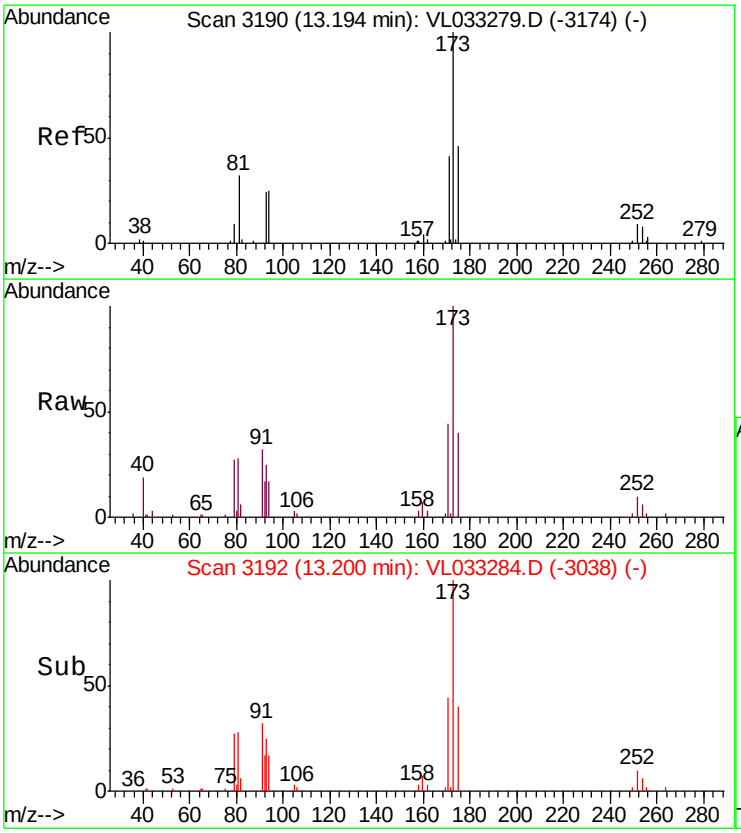
#48
Dibromochloromethane
Concen: 0.364 ppbv
RT: 10.44 min Scan# 2335
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:129 Resp: 42218

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.9	116.6

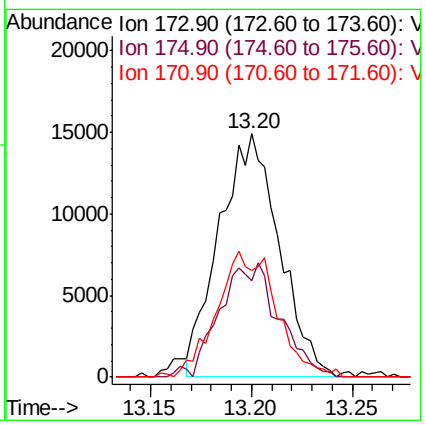


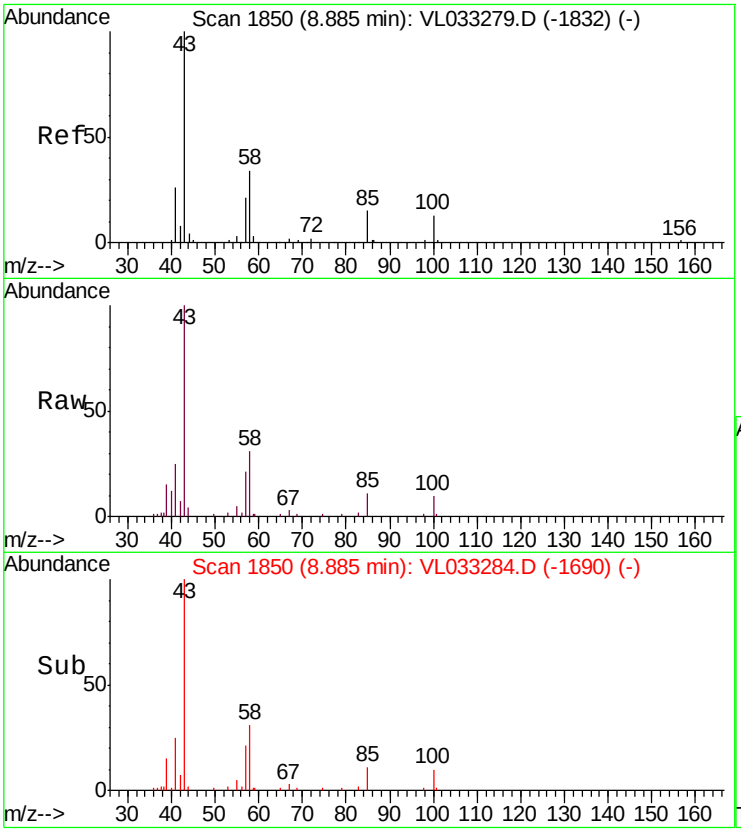


#49
Bromoform
Concen: 0.329 ppbv
RT: 13.20 min Scan# 3192
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:173 Resp: 30983

Ion	Ratio	Lower	Upper
173	100		
175	46.5	39.0	58.6
171	51.2	41.2	61.8



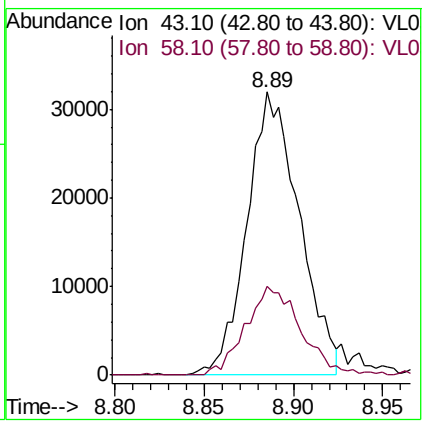


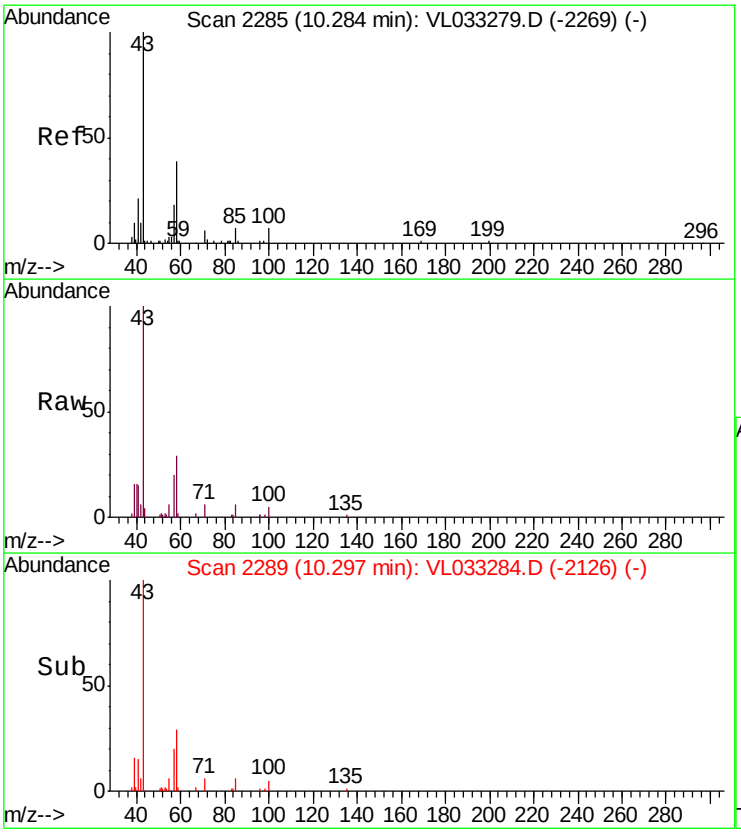
#50
4-Methyl-2-Pentanone
Concen: 0.362 ppbv
RT: 8.89 min Scan# 1850
Delta R.T. 0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 43 Resp: 65366

Ion	Ratio	Lower	Upper
43	100		
58	33.6	28.0	42.0

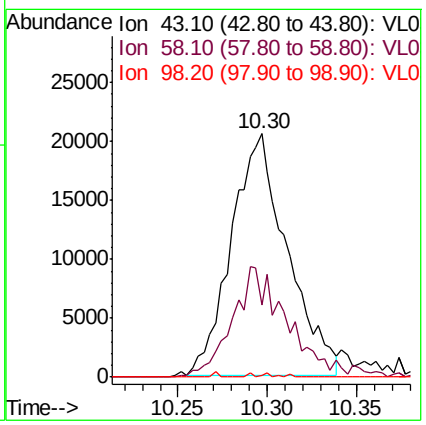


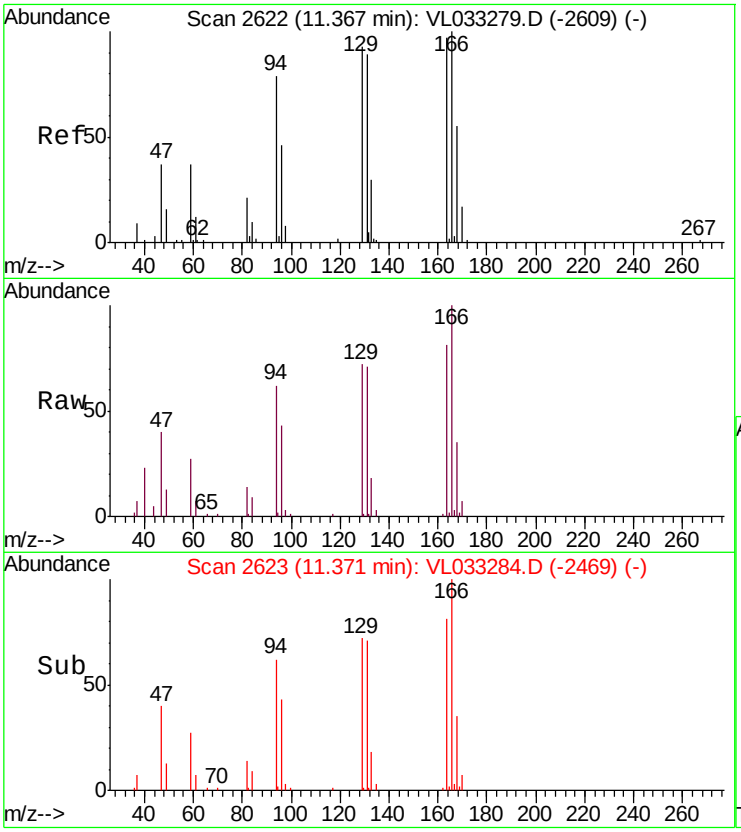


#51
2-Hexanone
Concen: 0.325 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. 0.02 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 43 Resp: 44778

Ion	Ratio	Lower	Upper
43	100		
58	45.7	38.1	57.1
98	0.6	0.1	0.1#



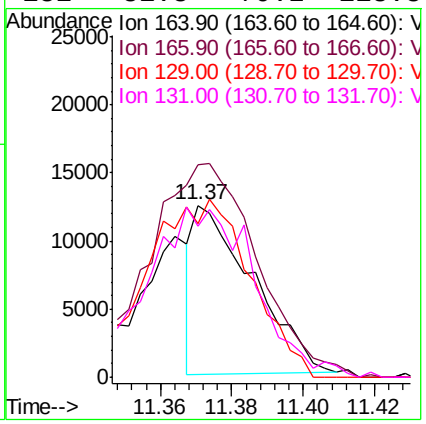


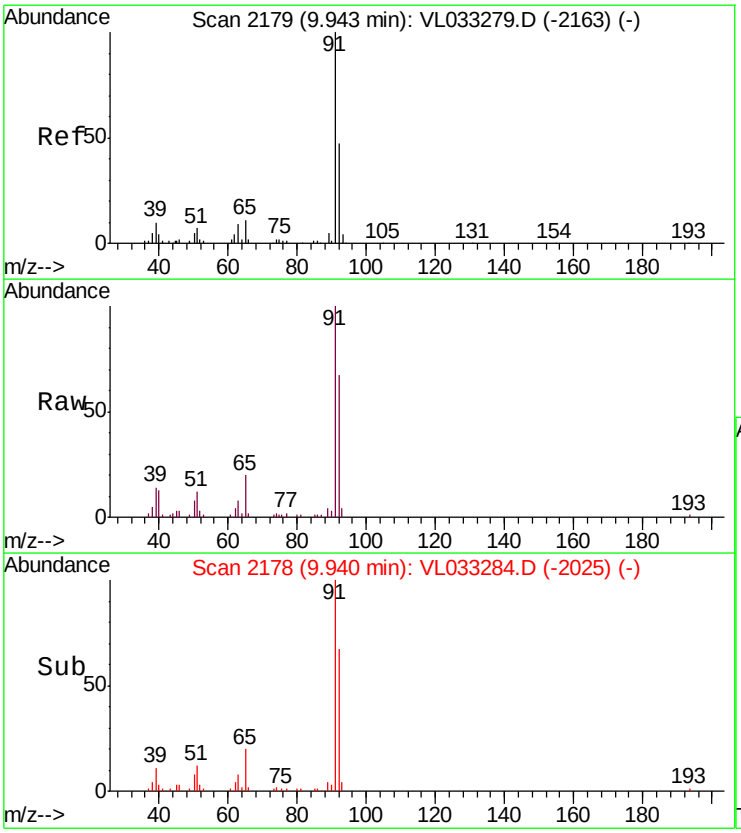
#52
Tetrachloroethene
Concen: 0.221 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument : MSVOA_L
ClientSampleId : 0.4 PPB MDL

Tgt Ion:164 Resp: 14258

Ion	Ratio	Lower	Upper
164	100		
166	116.1	100.8	151.2
129	91.3	80.6	121.0
131	81.3	79.2	118.8

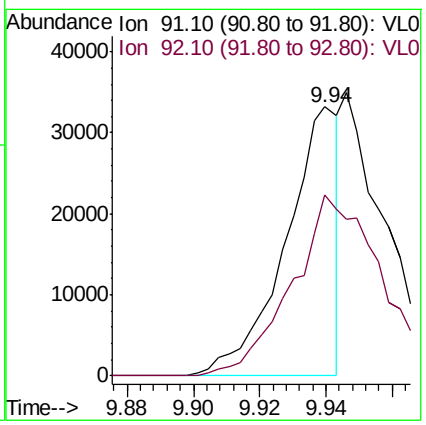


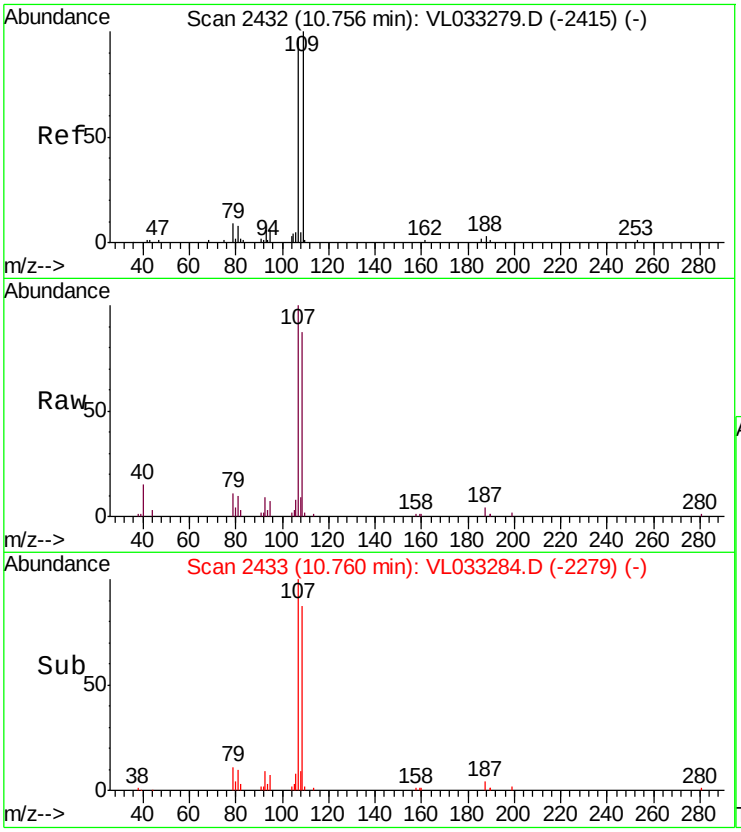


#53
Toluene
Concen: 0.180 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 91 Resp: 36643

Ion	Ratio	Lower	Upper
91	100		
92	114.5	47.8	71.8#



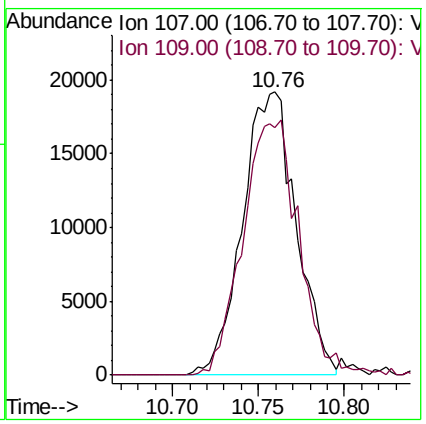


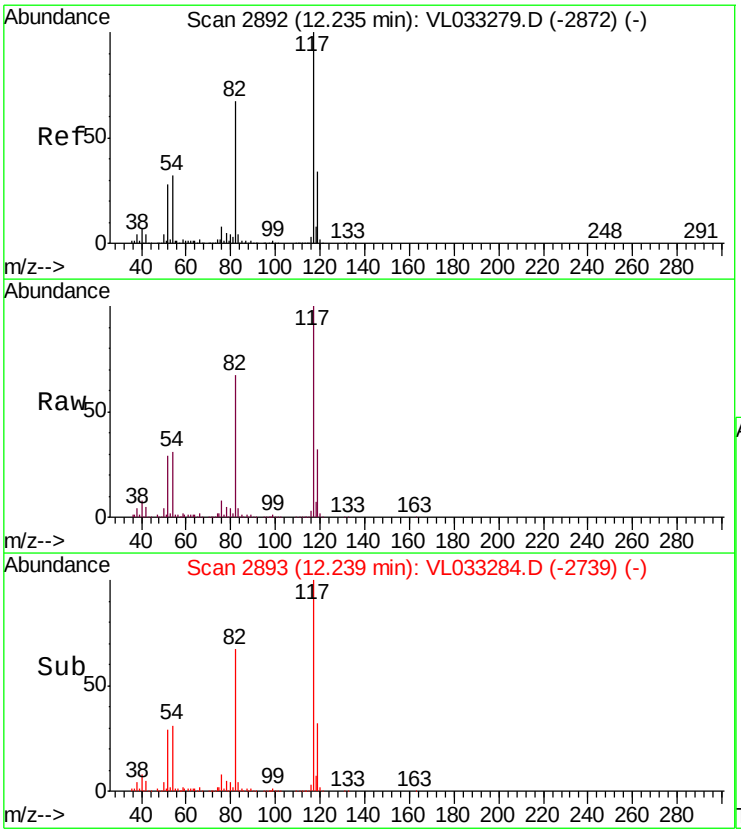
#54
1,2-Dibromoethane
Concen: 0.382 ppbv
RT: 10.76 min Scan# 2433
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:107 Resp: 41573

Ion	Ratio	Lower	Upper
107	100		
109	87.4	74.2	111.2

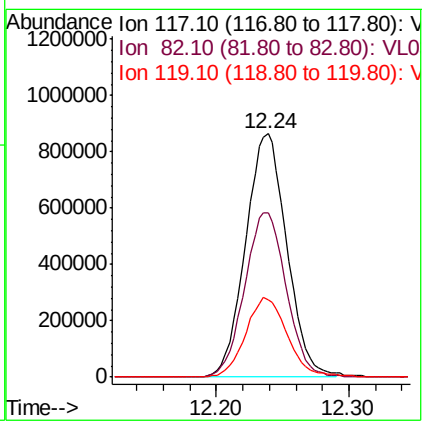


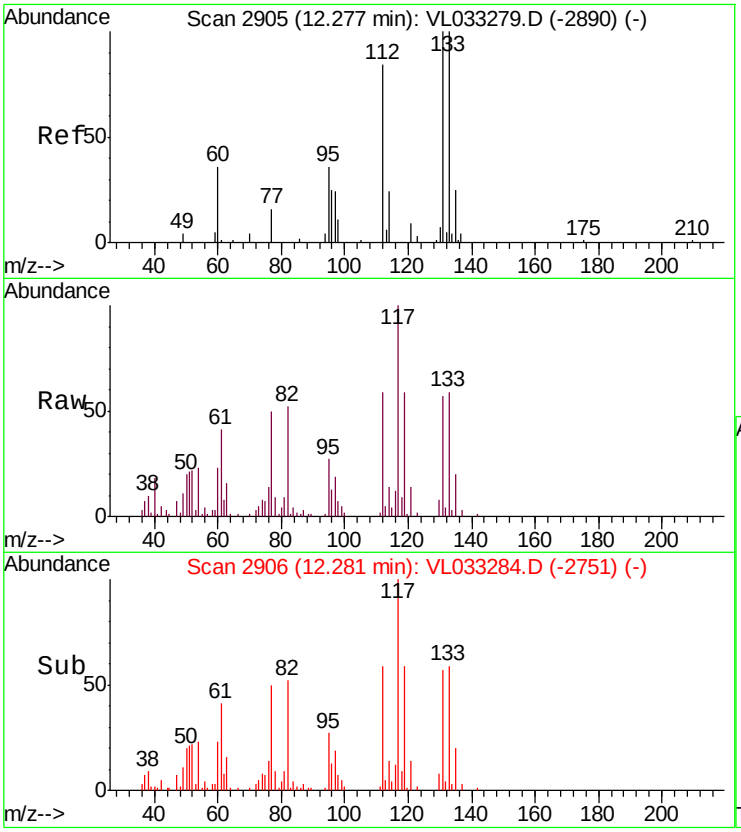


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:117 Resp: 1867982

Ion	Ratio	Lower	Upper
117	100		
82	68.4	51.1	76.7
119	33.3	43.6	65.4#



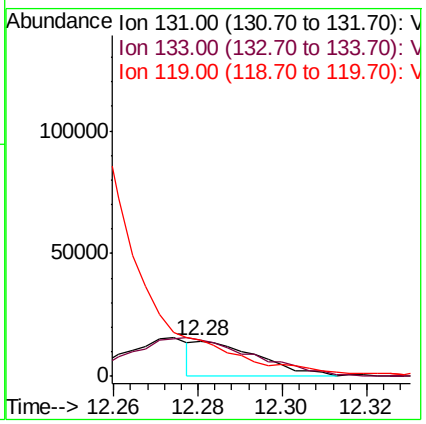


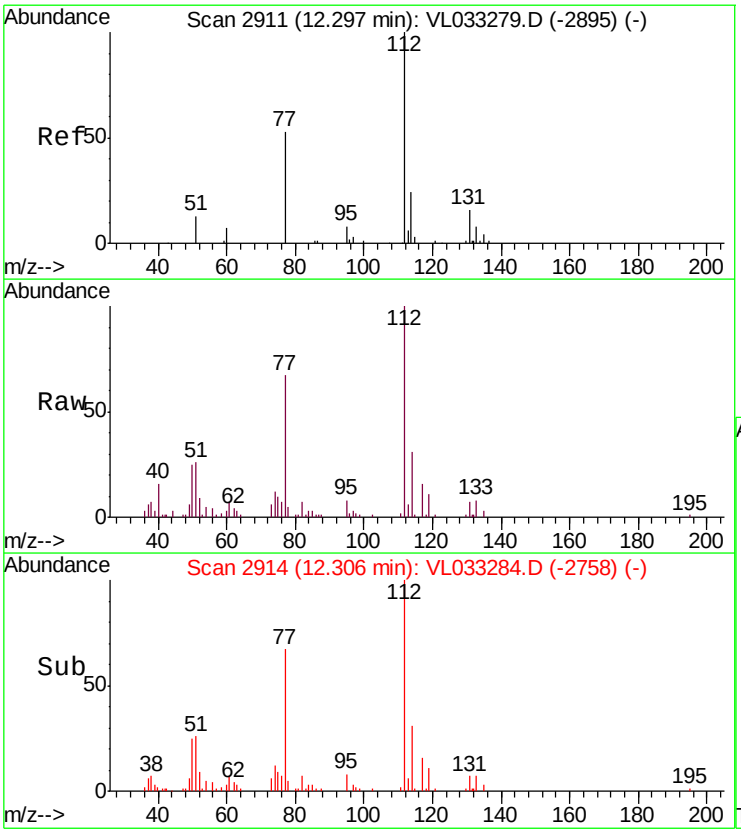
#56
1,1,1,2-Tetrachloroethane
Concen: 0.188 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:131 Resp: 14915

Ion	Ratio	Lower	Upper
131	100		
133	225.4	76.2	114.4#
119	0.0	110.3	165.5#

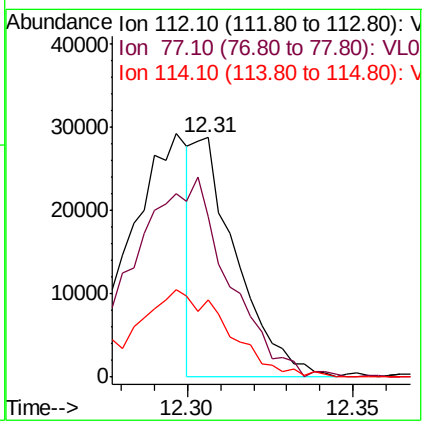


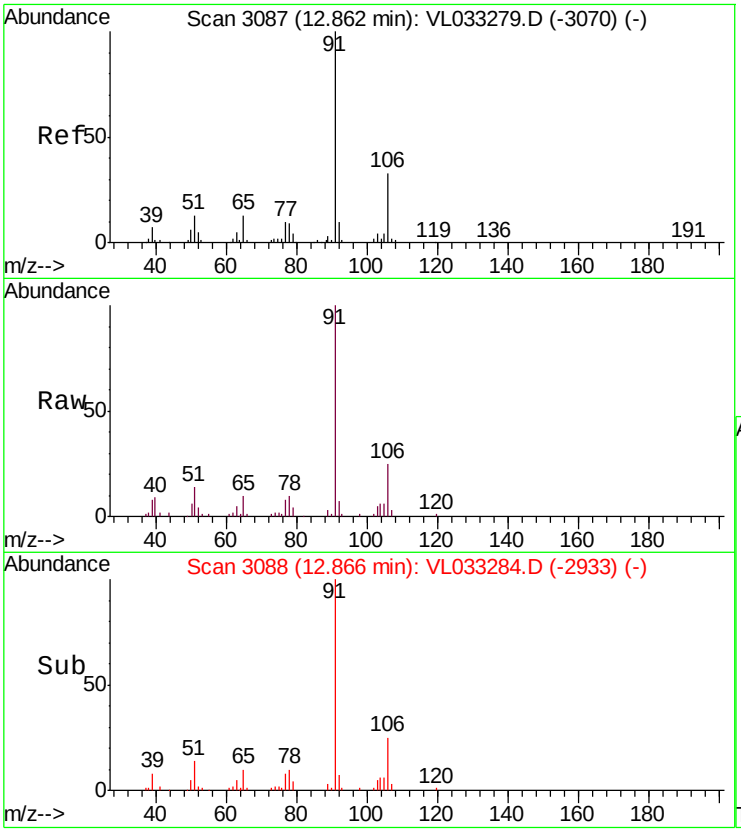


#57
Chlorobenzene
Concen: 0.184 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:112 Resp: 25967

Ion	Ratio	Lower	Upper
112	100		
77	65.9	55.8	83.8
114	32.2	29.5	36.1



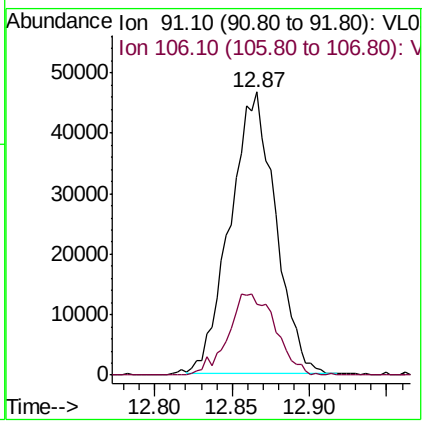


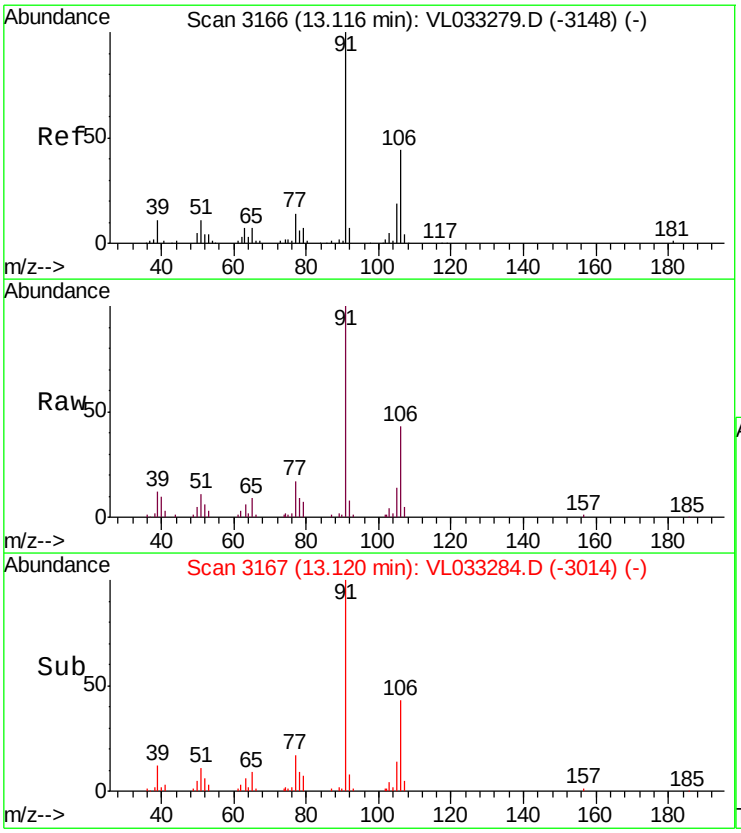
#58
Ethyl Benzene
Concen: 0.370 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 91 Resp: 94954

Ion	Ratio	Lower	Upper
91	100		
106	25.2	22.5	33.7

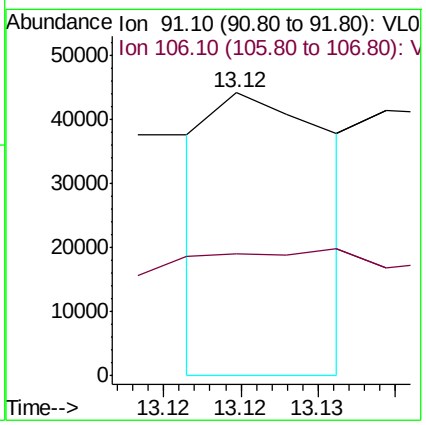


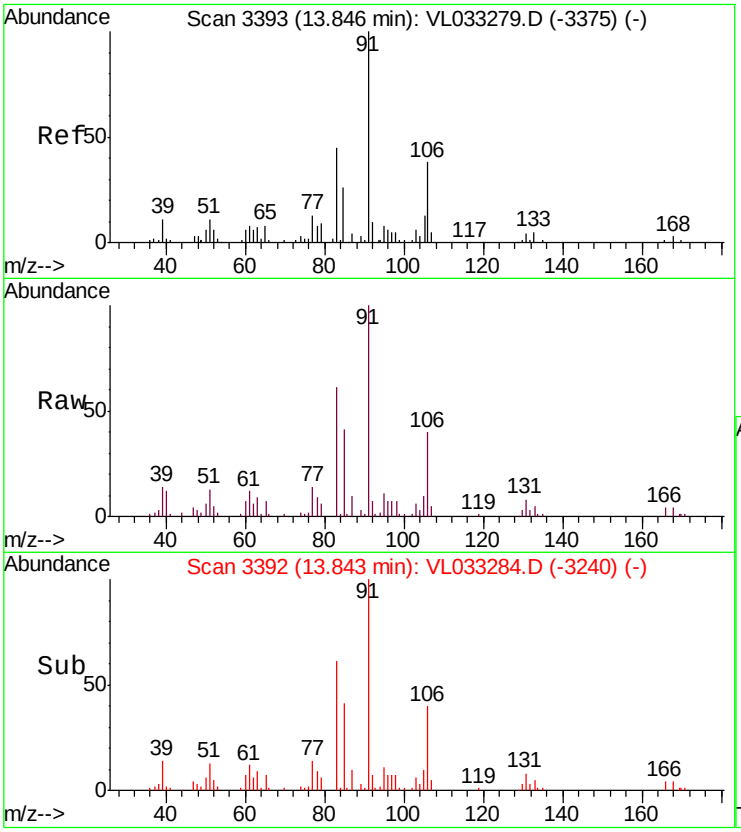


#59
m/p-Xylene
Concen: 0.110 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 91 Resp: 23603

Ion	Ratio	Lower	Upper
91	100		
106	314.9	35.5	53.3#



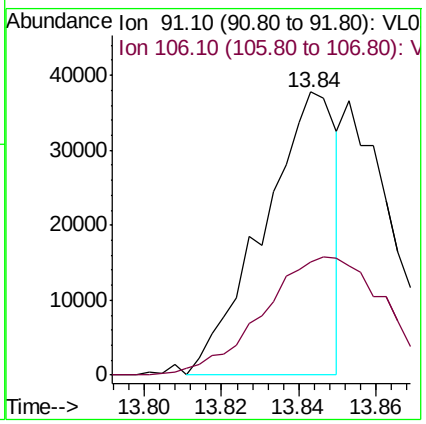


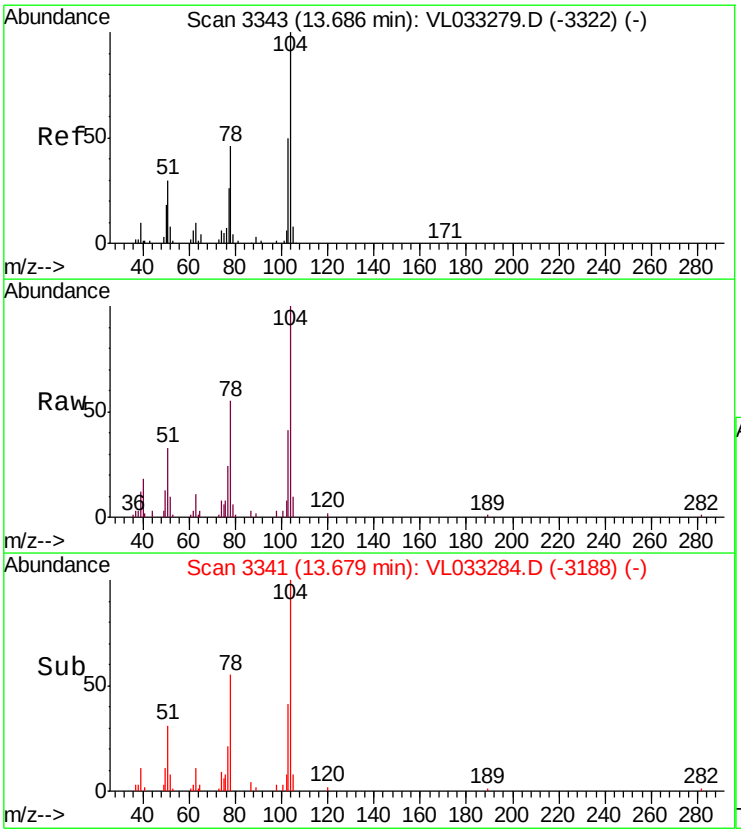
#60
o-Xylene
Concen: 0.239 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 91 Resp: 49252

Ion	Ratio	Lower	Upper
91	100		
106	72.6	21.3	63.7#

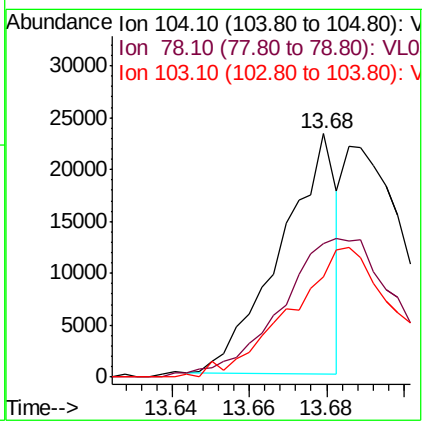


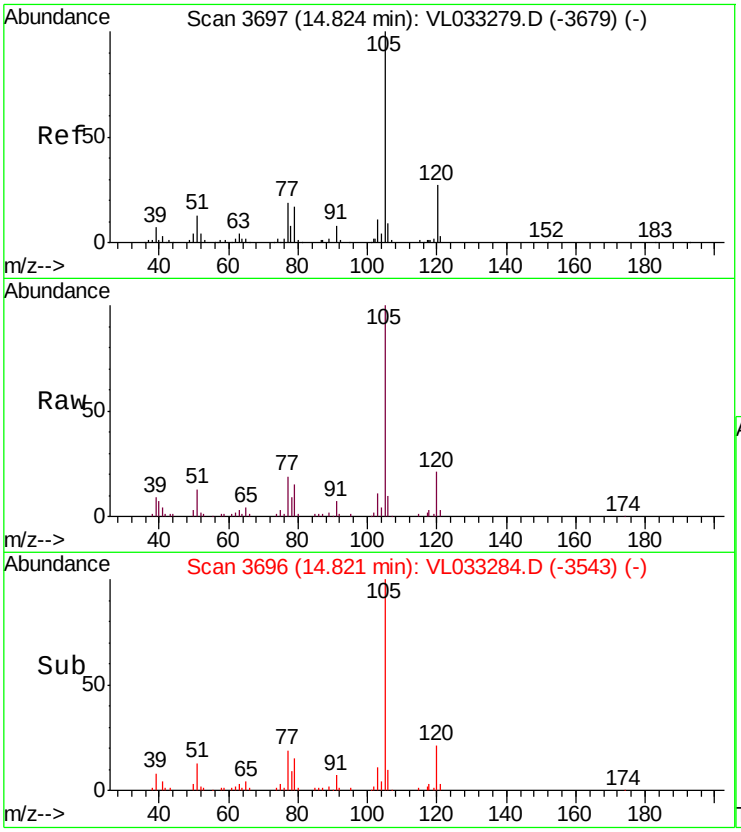


#61
Styrene
Concen: 0.158 ppbv
RT: 13.68 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:104 Resp: 23211

Ion	Ratio	Lower	Upper
104	100		
78	0.0	43.3	64.9#
103	0.0	38.0	57.0#



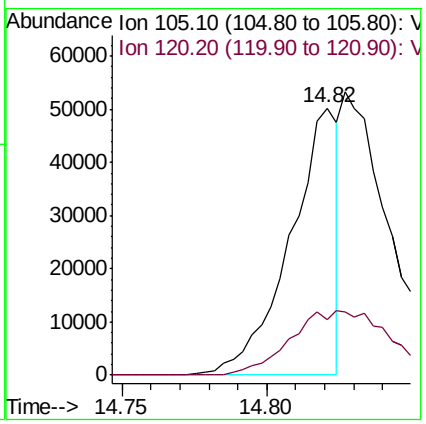


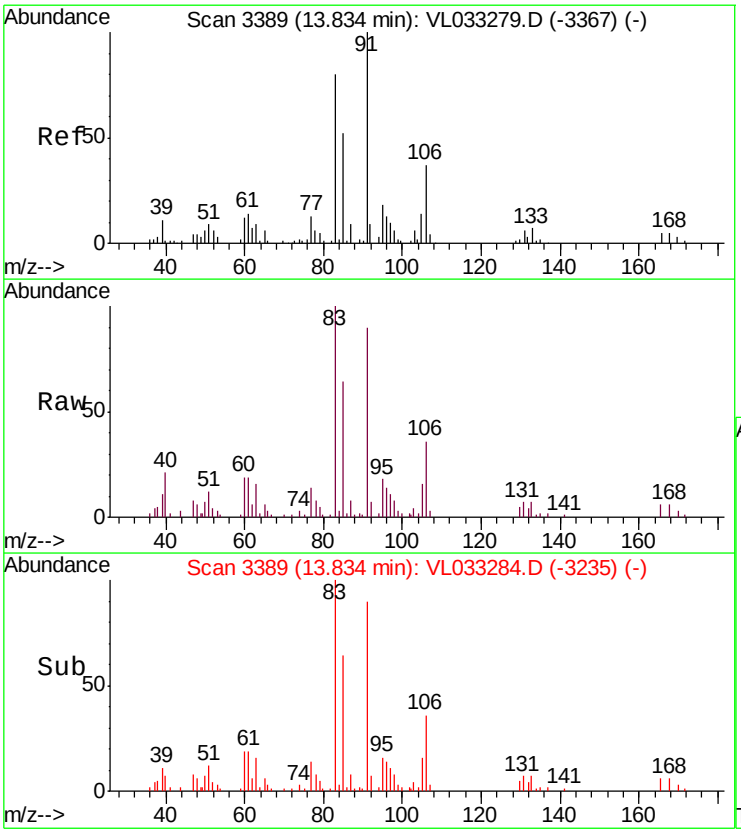
#62
Isopropylbenzene
Concen: 0.200 ppbv
RT: 14.82 min Scan# 3696
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:105 Resp: 57409

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.0	30.0#

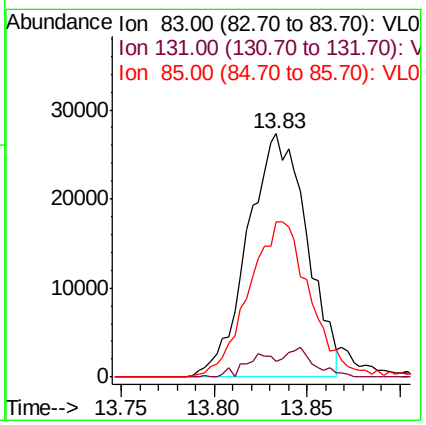


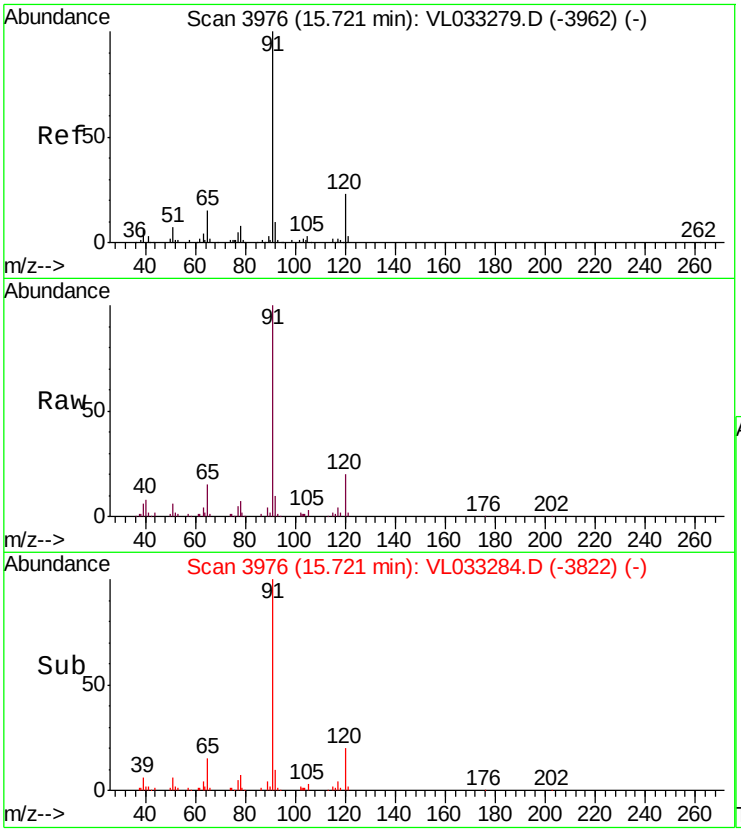


#63
1,1,2,2-Tetrachloroethane
Concen: 0.437 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 83 Resp: 60509

Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.5	13.7
85	67.5	32.2	96.6



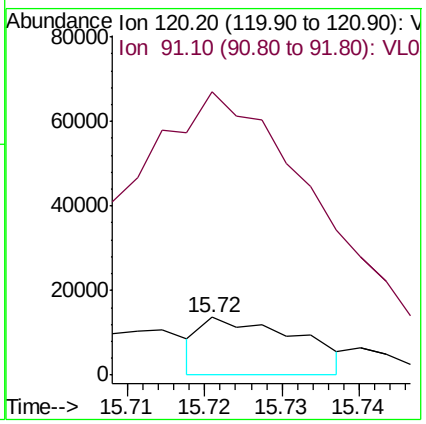


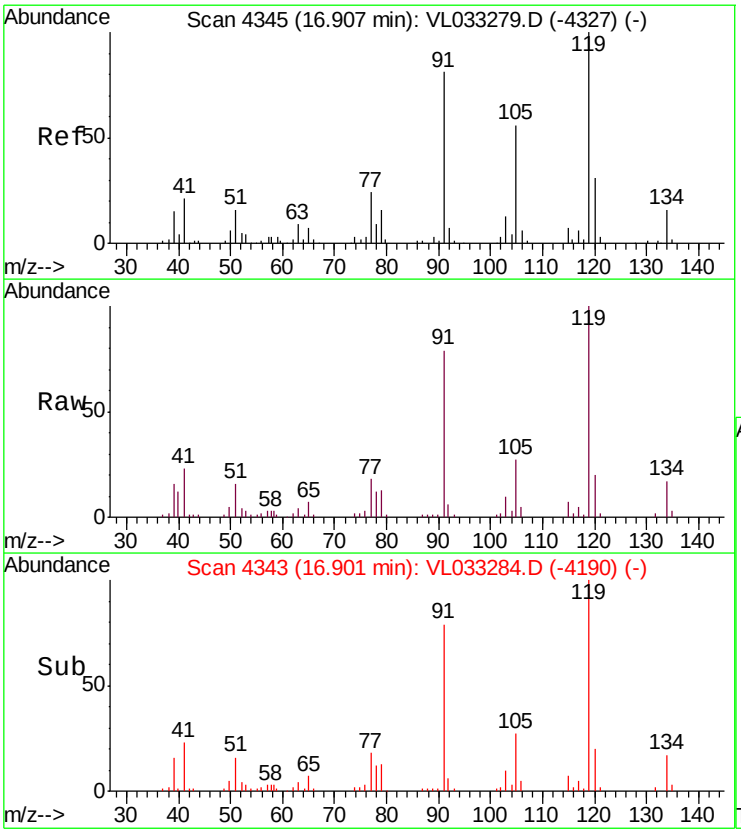
#64
n-propylbenzene
Concen: 0.167 ppbv
RT: 15.72 min Scan# 3976
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:120 Resp: 11804

Ion	Ratio	Lower	Upper
120	100		
91	1217.1	385.8	578.8#

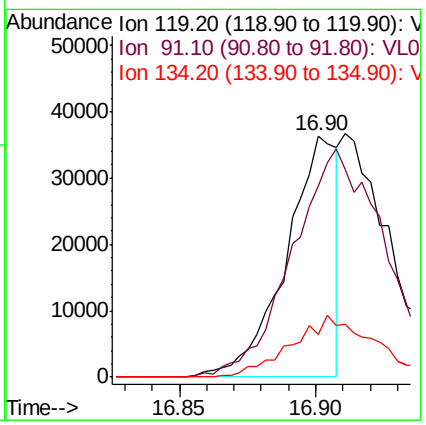


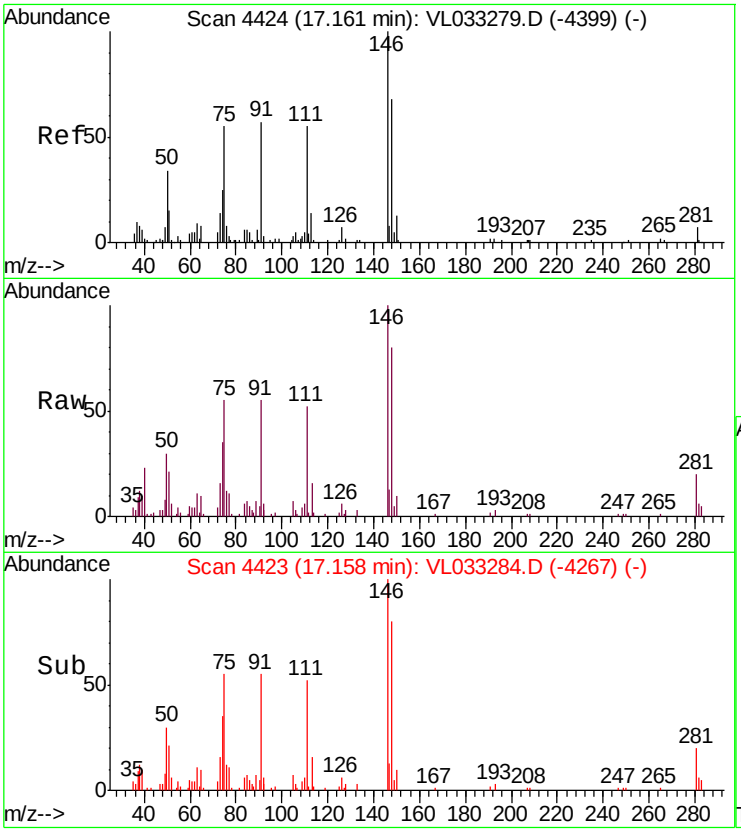


#65
tert-Butylbenzene
Concen: 0.193 ppbv
RT: 16.90 min Scan# 4343
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:119 Resp: 46901

Ion	Ratio	Lower	Upper
119	100		
91	0.0	67.3	100.9#
134	0.0	15.4	23.2#



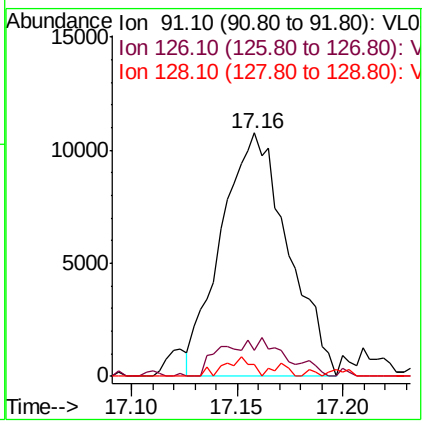


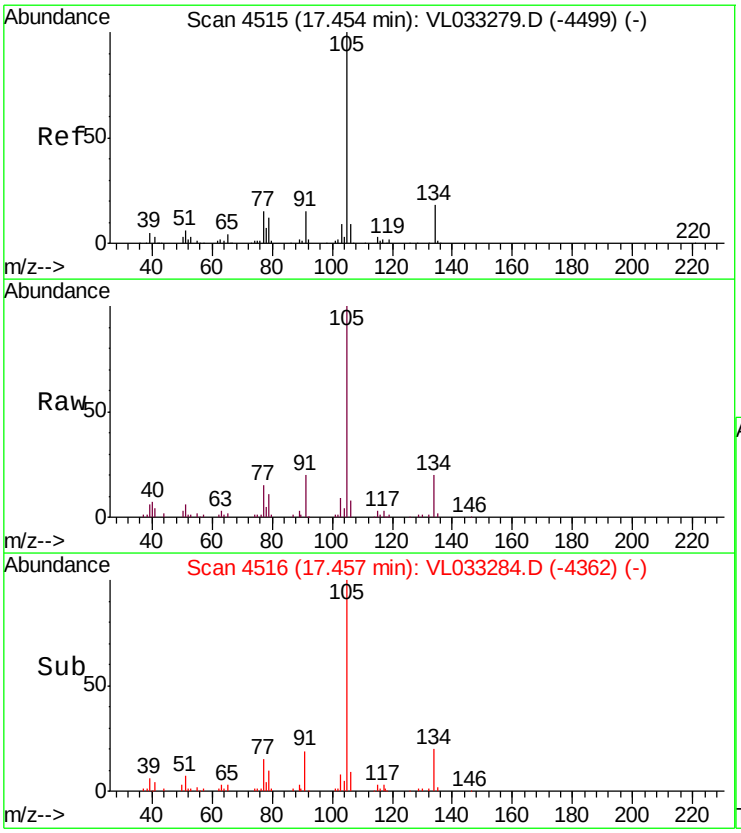
#66
Benzyl Chloride
Concen: 0.252 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 91 Resp: 23672

Ion	Ratio	Lower	Upper
91	100		
126	15.8	13.0	19.6
128	4.8	4.3	6.5

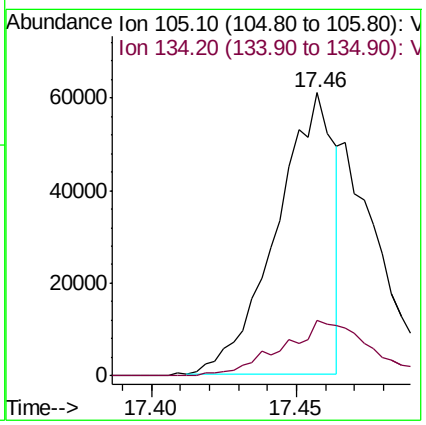


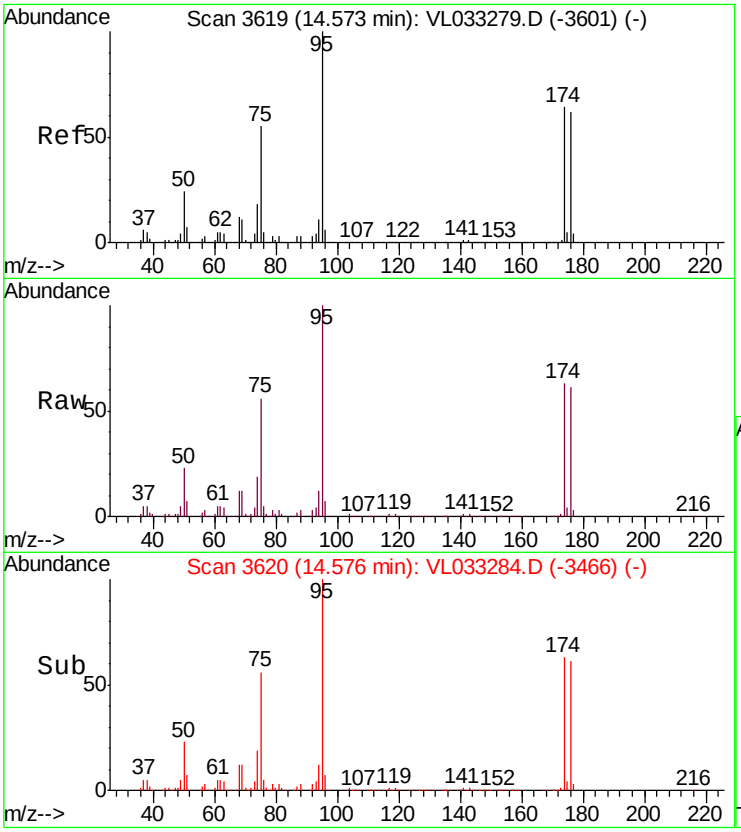


#67
sec-Butylbenzene
Concen: 0.243 ppbv
RT: 17.46 min Scan# 4516
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:105 Resp: 84058

Ion	Ratio	Lower	Upper
105	100		
134	29.9	14.2	21.2#



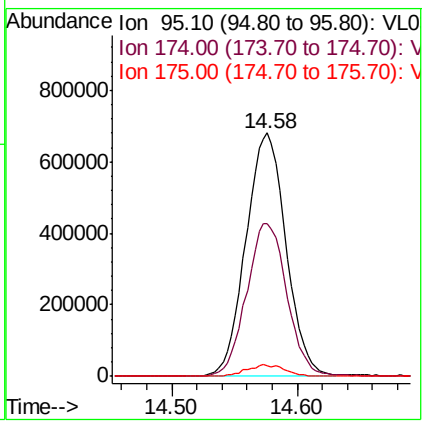


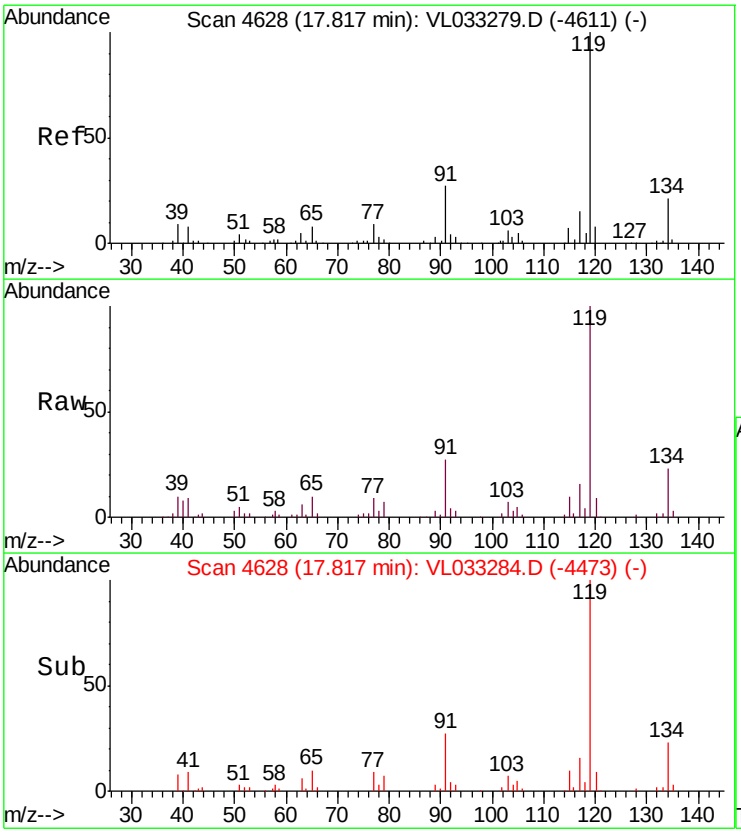
#68
1-Bromo-4-Fluorobenzene
Concen: 10.473 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 95 Resp: 1510737

Ion	Ratio	Lower	Upper
95	100		
174	63.7	51.7	77.5
175	4.6	3.7	5.5

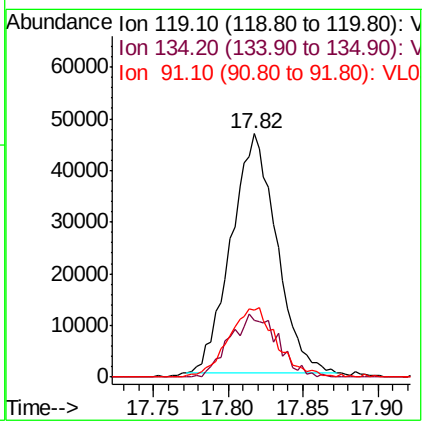


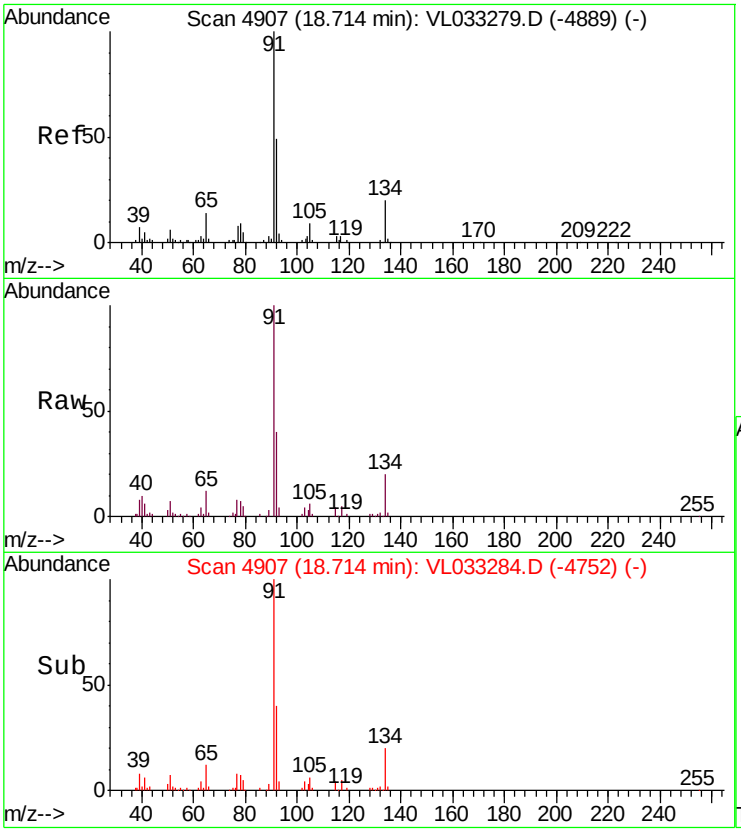


#69
p-Isopropyltoluene
Concen: 0.354 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:119 Resp: 98665

Ion	Ratio	Lower	Upper
119	100		
134	27.4	19.7	29.5
91	30.6	23.5	35.3



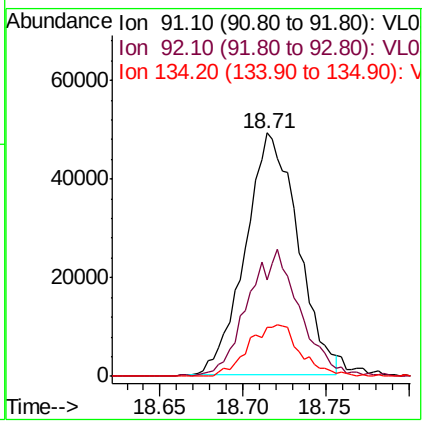


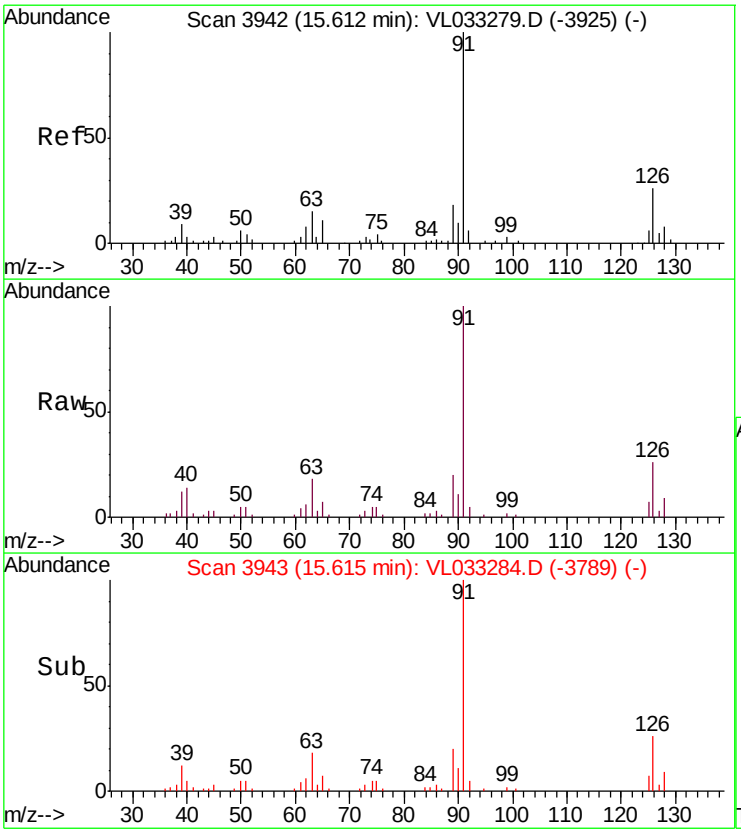
#70
n-Butylbenzene
Concen: 0.362 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 91 Resp: 108619

Ion	Ratio	Lower	Upper
91	100		
92	52.4	42.4	63.6
134	21.1	17.1	25.7

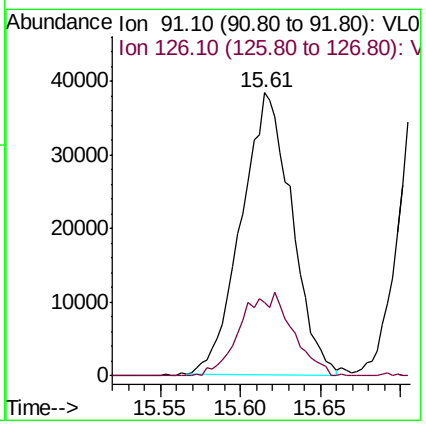


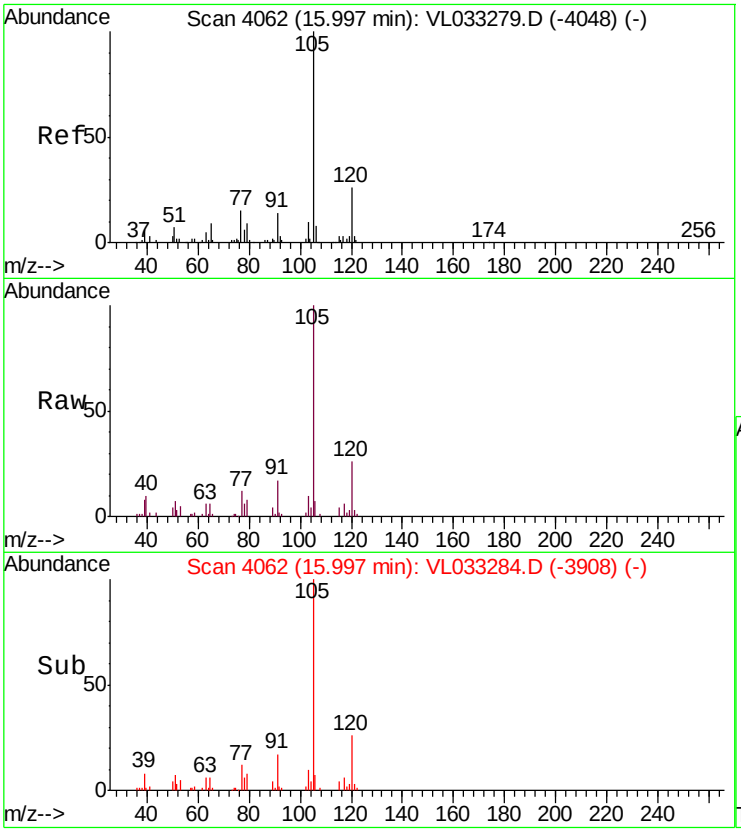


#71
2-Chlorotoluene
Concen: 0.383 ppbv
RT: 15.61 min Scan# 3943
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion: 91 Resp: 83077

Ion	Ratio	Lower	Upper
91	100		
126	30.5	11.7	46.7



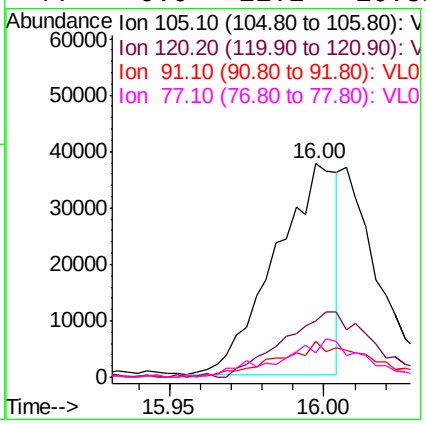


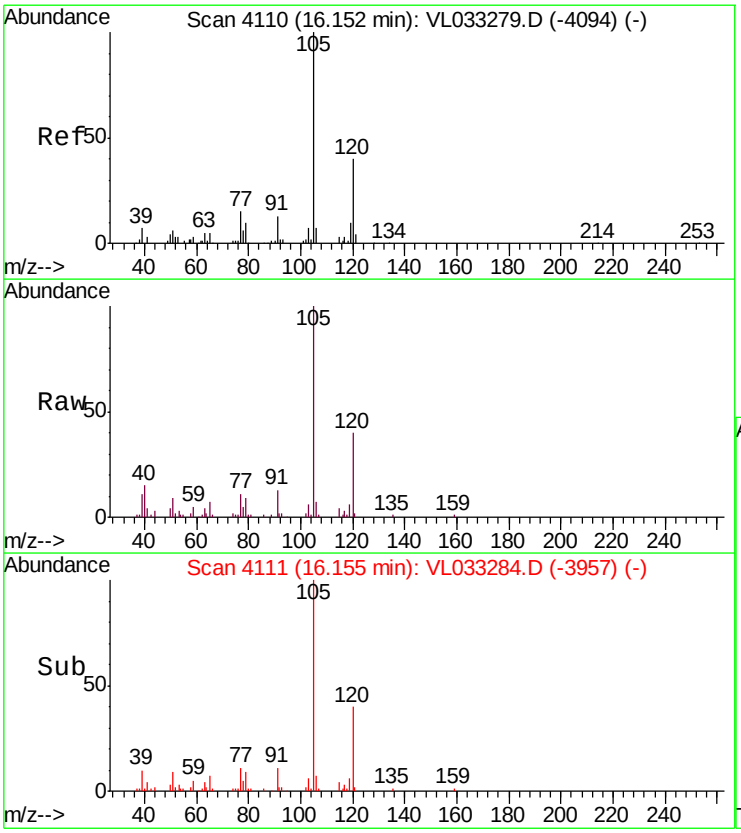
#72
4-Ethyltoluene
Concen: 0.231 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:105 Resp: 51462

Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.9	34.3#
91	25.3	10.2	15.2#
77	0.0	11.2	16.8#

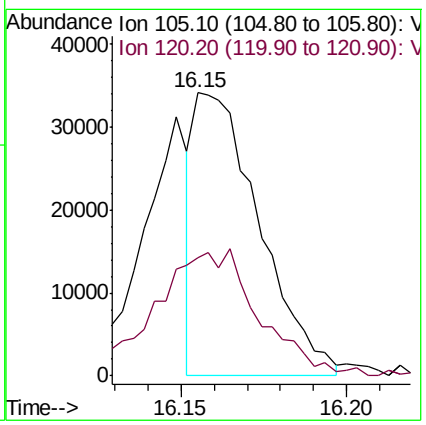


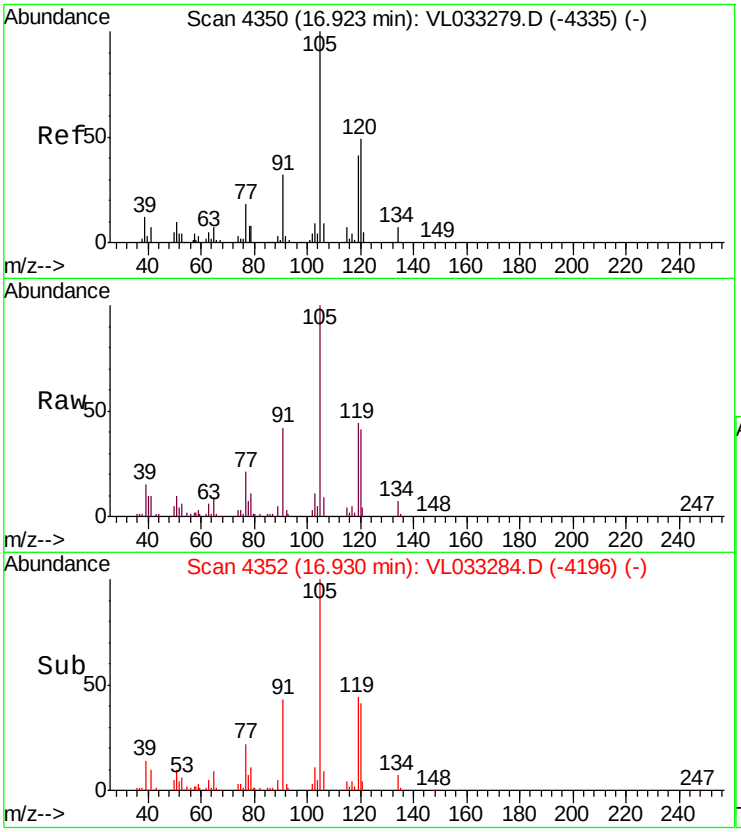


#73
1,3,5-Trimethylbenzene
Concen: 0.220 ppbv
RT: 16.15 min Scan# 4111
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:105 Resp: 46295

Ion	Ratio	Lower	Upper
105	100		
120	42.0	35.1	52.7



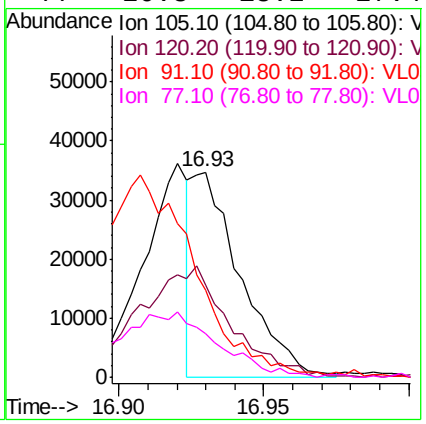


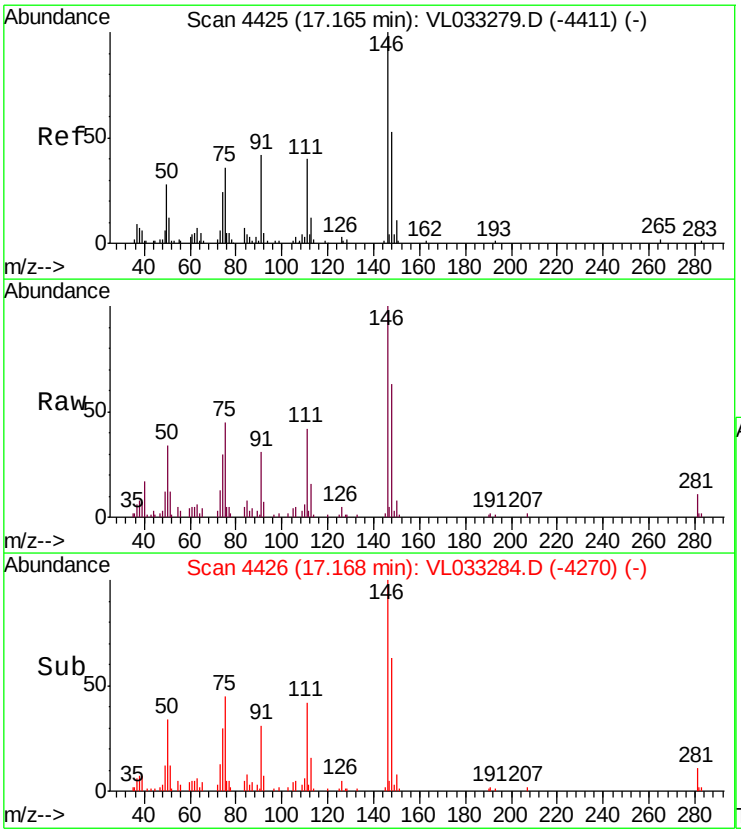
#74
1,2,4-Trimethylbenzene
Concen: 0.186 ppbv
RT: 16.93 min Scan# 4352
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:105 Resp: 39780

Ion	Ratio	Lower	Upper
105	100		
120	45.5	36.1	54.1
91	40.8	38.6	58.0
77	20.8	18.2	27.4

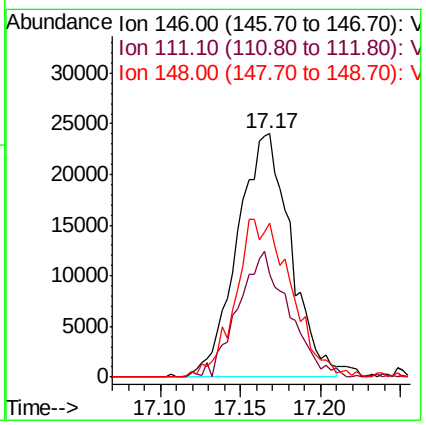


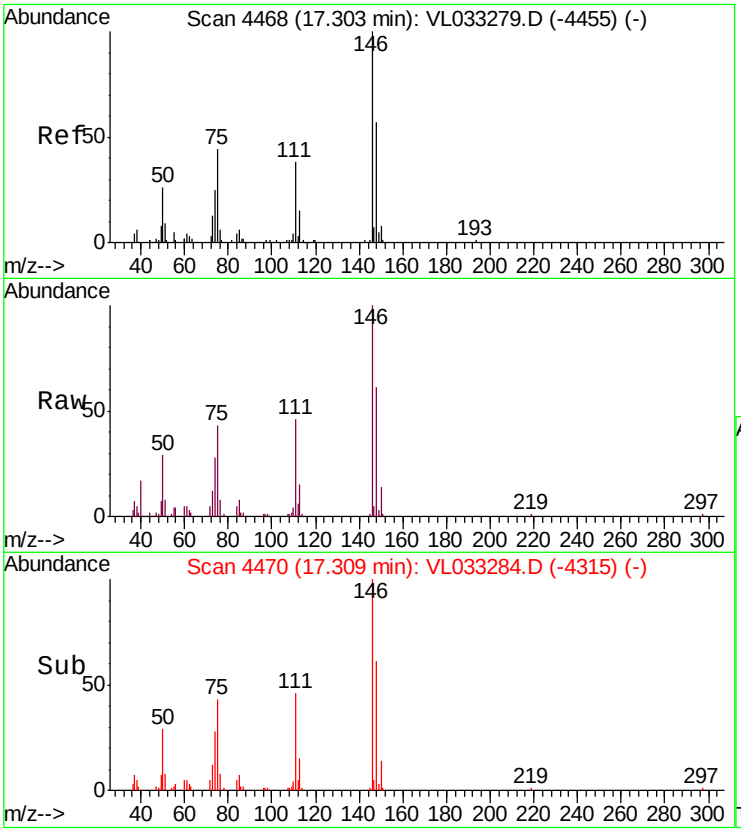


#75
1,3-Dichlorobenzene
Concen: 0.429 ppbv
RT: 17.17 min Scan# 4426
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:146 Resp: 54945

Ion	Ratio	Lower	Upper
146	100		
111	49.4	22.8	68.4
148	67.5	31.8	95.3



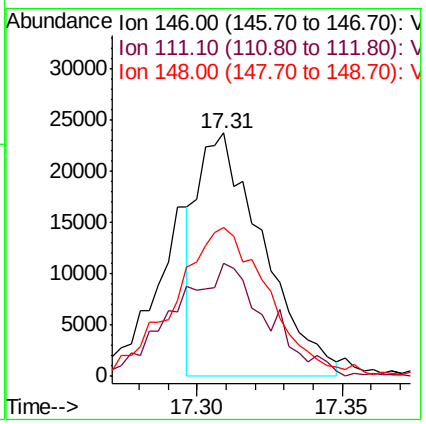


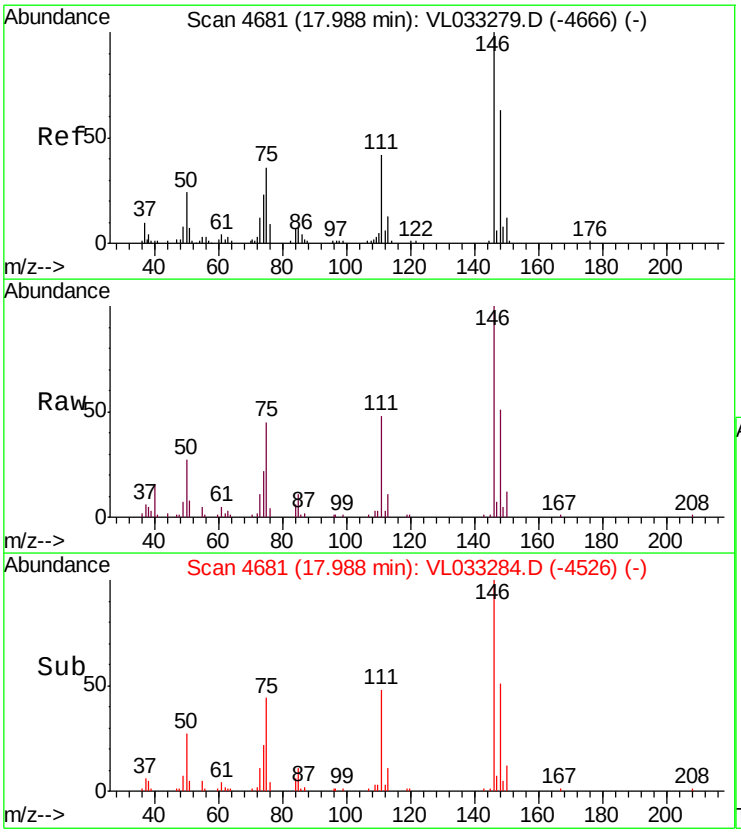
#76
1,4-Dichlorobenzene
Concen: 0.293 ppbv
RT: 17.31 min Scan# 4470
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:146 Resp: 37134

Ion	Ratio	Lower	Upper
146	100		
111	68.0	22.1	66.1#
148	90.1	31.8	95.3

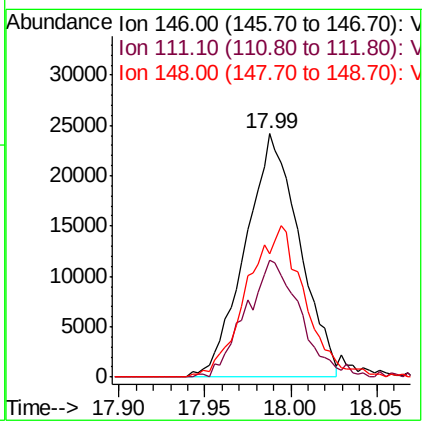


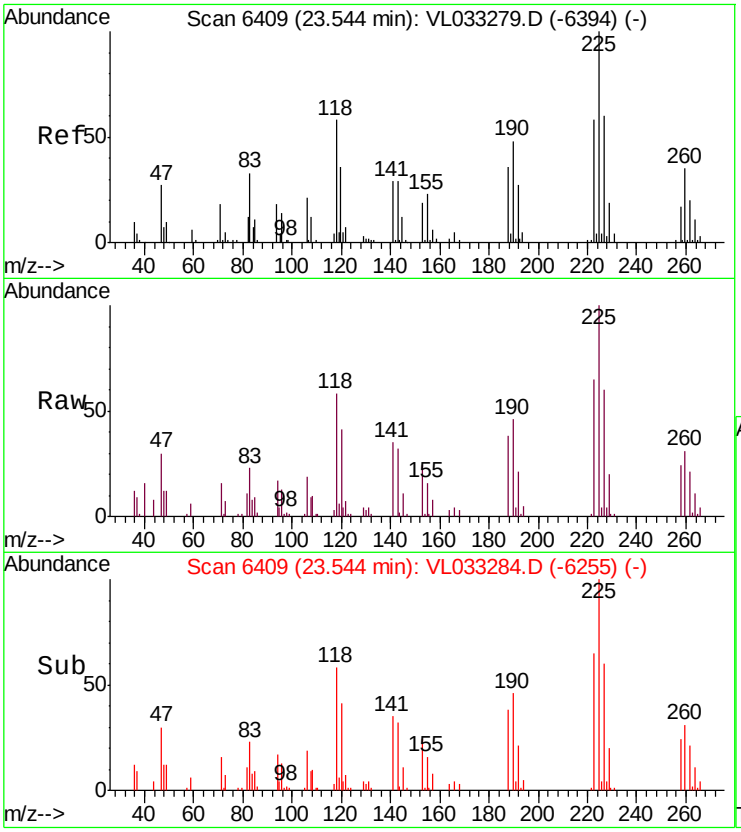


#77
1,2-Dichlorobenzene
Concen: 0.415 ppbv
RT: 17.99 min Scan# 4681
Delta R.T. -0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:146 Resp: 52934

Ion	Ratio	Lower	Upper
146	100		
111	49.3	23.5	70.5
148	66.7	31.7	95.1



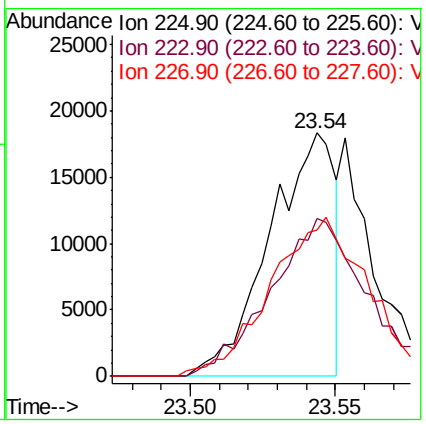


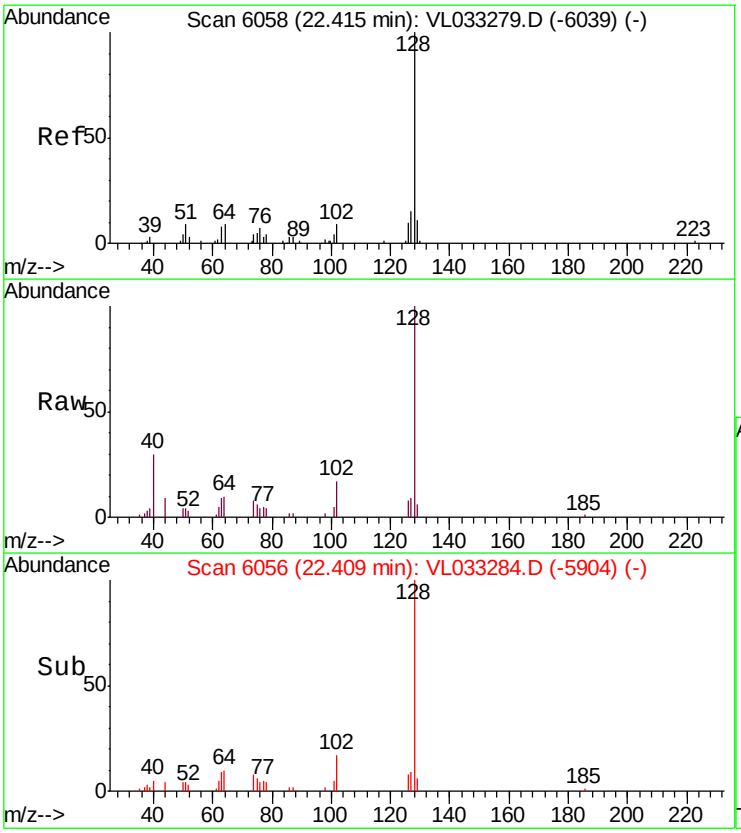
#78
Hexachloro-1,3-Butadiene
Concen: 0.270 ppbv
RT: 23.54 min Scan# 6409
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:225 Resp: 28670

Ion	Ratio	Lower	Upper
225	100		
223	94.4	50.3	75.5#
227	98.9	51.1	76.7#

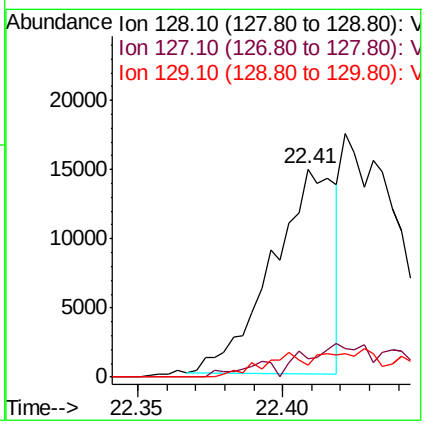


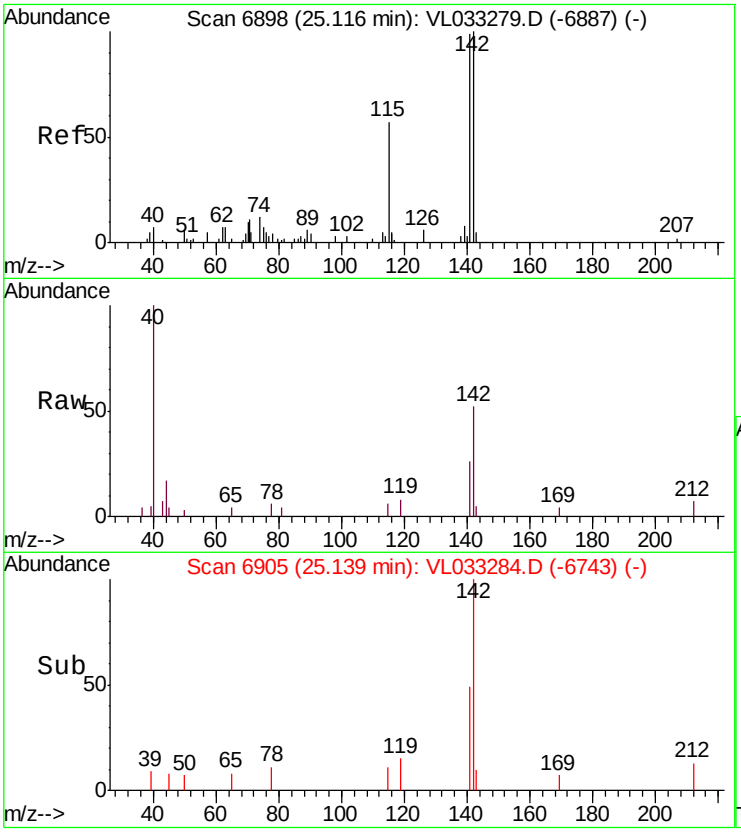


#79
Naphthalene
Concen: 0.096 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. -0.01 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:128 Resp: 22279

Ion	Ratio	Lower	Upper
128	100		
127	9.1	10.5	15.7#
129	5.9	8.4	12.6#



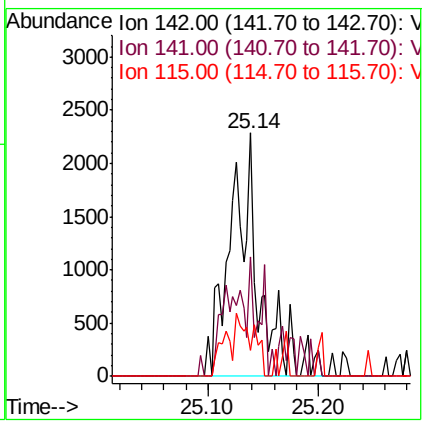


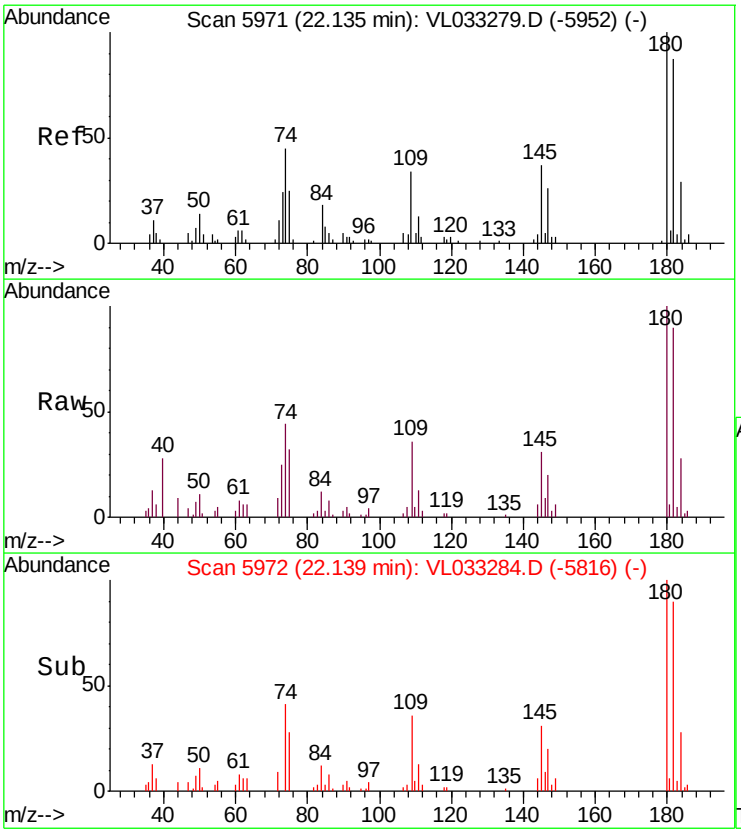
#80
Naphthalene,2-methyl-
Concen: 0.066 ppbv
RT: 25.14 min Scan# 6905
Delta R.T. 0.02 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:142 Resp: 4157

Ion	Ratio	Lower	Upper
142	100		
141	46.4	68.0	102.0#
115	27.1	33.8	50.6#





#81
1,2,4-Trichlorobenzene
Concen: 0.237 ppbv
RT: 22.14 min Scan# 5972
Delta R.T. 0.00 min
Lab File: VL033284.D
Acq: 12 Mar 2019 15:03

Tgt Ion:180 Resp: 28898

Ion	Ratio	Lower	Upper
180	100		
182	117.3	76.6	114.8#
184	38.4	24.2	36.4#