Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL041719\
Data File : VL033605.D
Acq On : 17 Apr 2019 16:53
Operator : SY/AP
Sample : K2241-15 0.4 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : MDL-MDL-AIR-03-QT2-2019

Quant Time: Apr 22 11:21:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	766534	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	1873447	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	1894626	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.57	95	1542860	10.39	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	59543	0.533	ppbv		93
3) Chlorodifluoromethane	3.02	51	37712	0.427	ppbv		97
4) Chloromethane	3.17	50	21187	0.454	ppbv		91
5) Vinyl Chloride	3.29	62	19009	0.414	ppbv		99
6) Bromomethane	3.52	94	12796	0.434	ppbv	#	74
7) Chloroethane	3.60	64	7073	0.414	ppbv		89
8) Dichlorotetrafluoroethane	3.22	85	54279	0.456	ppbv		100
9) Propene	3.04	41	13367m	0.361	ppbv		
10) Heptane	8.25	43	29257m	0.295	ppbv		
11) Trichlorofluoromethane	4.00	101	62230	0.452	ppbv		88
12) 1,1,2-Trichlorotrifluoroet	4.55	101	42588	0.460	ppbv		97
13) Ethanol	3.66	45	5869m	0.612	ppbv		
14) Bromoethene	3.79	108	15368	0.416	ppbv		99
15) Acetone	3.91	43	51073	0.554	ppbv		96
16) 1,3-Butadiene	3.37	39	16686m	0.456	ppbv		
17) tert-Butyl alcohol	4.38	59	7850m	0.463	ppbv		
18) 1,1-Dichloroethene	4.35	96	16783	0.422	ppbv	#	88
19) Isopropyl Alcohol	4.04	45	27769	0.476	ppbv	#	92
20) Methylene Chloride	4.41	84	20840	0.533	ppbv		95
21) Allyl Chloride	4.48	41	22227	0.381	ppbv		99
22) trans-1,2-Dichloroethene	4.96	96	17629m	0.425	ppbv		
23) Vinyl Acetate	5.15	43	44523m	0.339	ppbv		
24) 1,1-Dichloroethane	5.09	63	41182	0.413	ppbv		99
25) Ethyl Acetate	5.77	43	60342	0.353	ppbv		100
26) Hexane	5.78	57	26465	0.348	ppbv	#	92
27) Carbon Disulfide	4.62	76	32703m	0.362	ppbv		
28) Methyl tert-Butyl Ether	5.13	73	32768	0.299	ppbv		93
29) Chloroform	5.84	83	51546	0.395	ppbv		85
30) Cyclohexane	7.25	84	17099	0.284	ppbv	#	26
31) cis-1,2-Dichloroethene	5.64	61	23223	0.307	ppbv	#	78
32) 1,1,1-Trichloroethane	6.61	97	47744m	0.385	ppbv		
34) 2-Butanone	5.34	43	37166	0.330	ppbv		99
35) Carbon Tetrachloride	7.13	117	51491	0.388	ppbv		98
36) Benzene	7.00	78	48414	0.308	ppbv		99
37) 1,2-Dichloroethane	6.41	62	37964	0.360	ppbv		99
38) Trichloroethene	7.95	130	20998	0.355	ppbv		86
39) 1,2-Dichloropropane	7.73	63	20422	0.332	ppbv		93
40) 1,4-Dioxane	8.00	88	7532m	0.343	ppbv		
41) Tetrahydrofuran	6.17	42	15457m	0.250	ppbv		
42) Bromodichloromethane	7.91	83	48439	0.338	ppbv	#	83
43) Methyl Methacrylate	8.14	69	15396	0.241	ppbv		90

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL041719\
Data File : VL033605.D
Acq On : 17 Apr 2019 16:53
Operator : SY/AP
Sample : K2241-15 0.4 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : MDL-MDL-AIR-03-QT2-2019

Quant Time: Apr 22 11:21:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	80533	0.293 ppbv		91
45) t-1,3-Dichloropropene	9.41	75	19228m	0.245 ppbv		
46) cis-1,3-Dichloropropene	8.83	75	22779	0.249 ppbv		96
47) 1,1,2-Trichloroethane	9.61	97	23665	0.338 ppbv	#	78
48) Dibromochloromethane	10.45	129	36894	0.313 ppbv		98
49) Bromoform	13.20	173	30435m	0.270 ppbv		
50) 4-Methyl-2-Pentanone	8.89	43	45040	0.273 ppbv		93
51) 2-Hexanone	10.29	43	28803m	0.234 ppbv		
52) Tetrachloroethene	11.37	164	19279m	0.325 ppbv		
53) Toluene	9.95	91	44450m	0.243 ppbv		
54) 1,2-Dibromoethane	10.75	107	35437	0.324 ppbv	#	80
56) 1,1,1,2-Tetrachloroethane	12.27	131	32475m	0.374 ppbv		
57) Chlorobenzene	12.29	112	55007	0.374 ppbv	#	83
58) Ethyl Benzene	12.86	91	62669	0.248 ppbv		98
59) m/p-Xylene	13.15	91	120384m	0.533 ppbv		
60) o-Xylene	13.85	91	60401	0.276 ppbv		99
61) Styrene	13.69	104	30164m	0.201 ppbv		
62) Isopropylbenzene	14.82	105	91464	0.296 ppbv		100
63) 1,1,2,2-Tetrachloroethane	13.83	83	59494	0.370 ppbv		98
64) n-propylbenzene	15.72	120	20123m	0.256 ppbv		
65) tert-Butylbenzene	16.91	119	75250m	0.276 ppbv		
66) Benzyl Chloride	17.15	91	33015m	0.260 ppbv		
67) sec-Butylbenzene	17.46	105	116725	0.301 ppbv		100
69) p-Isopropyltoluene	17.81	119	78176	0.248 ppbv		97
70) n-Butylbenzene	18.72	91	85415m	0.255 ppbv		
71) 2-Chlorotoluene	15.61	91	61633	0.262 ppbv		97
72) 4-Ethyltoluene	16.00	105	59165	0.241 ppbv	#	95
73) 1,3,5-Trimethylbenzene	16.15	105	58989	0.251 ppbv	#	81
74) 1,2,4-Trimethylbenzene	16.92	105	71170	0.282 ppbv		90
75) 1,3-Dichlorobenzene	17.16	146	61209m	0.393 ppbv		
76) 1,4-Dichlorobenzene	17.31	146	47841	0.315 ppbv		94
77) 1,2-Dichlorobenzene	17.99	146	48420m	0.328 ppbv		
78) Hexachloro-1,3-Butadiene	23.54	225	41401	0.423 ppbv		98
79) Naphthalene	22.41	128	23991m	0.111 ppbv		
81) 1,2,4-Trichlorobenzene	22.13	180	21395m	0.179 ppbv		

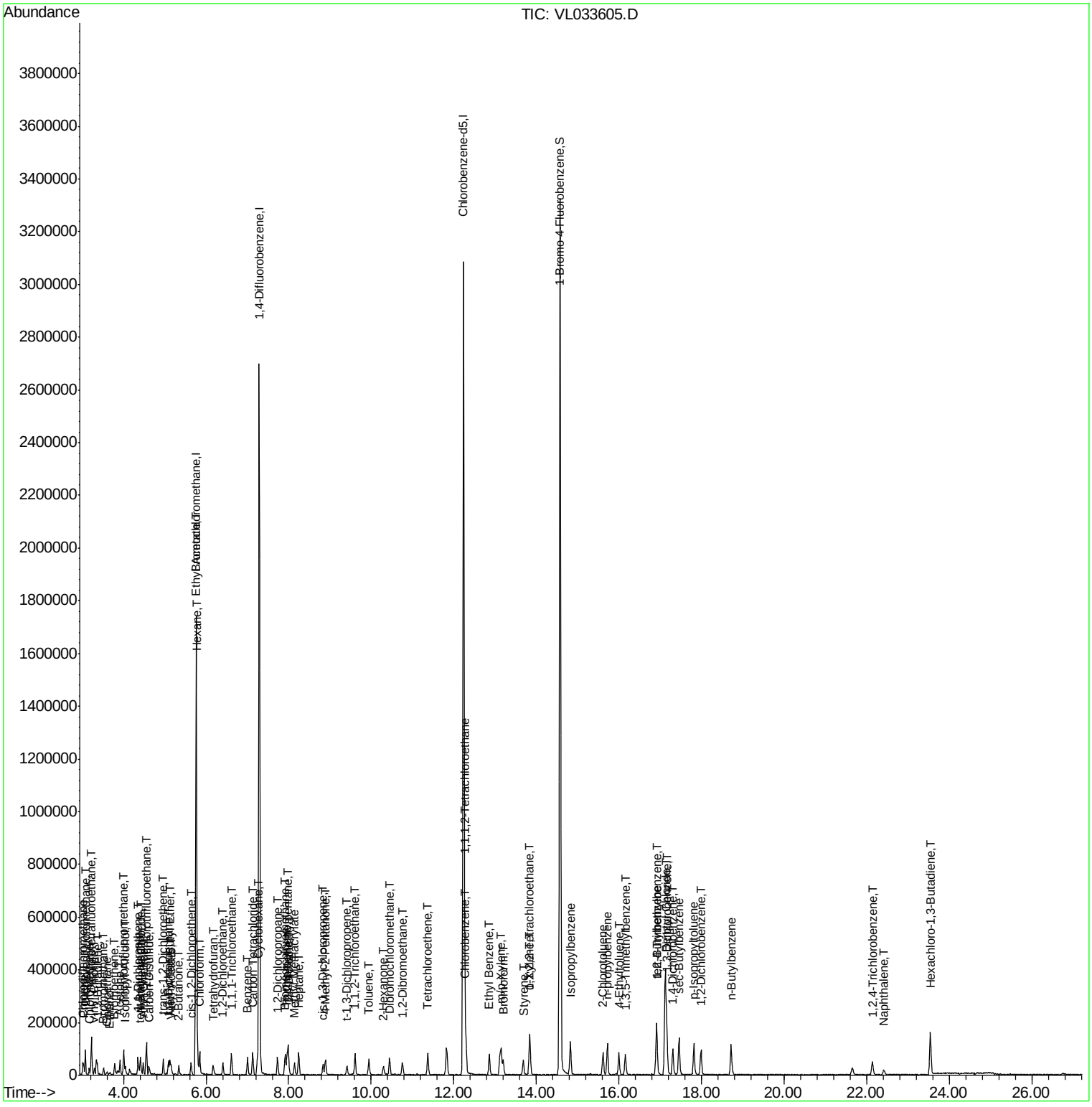
(#) = qualifier out of range (m) = manual integration (+) = signals summed

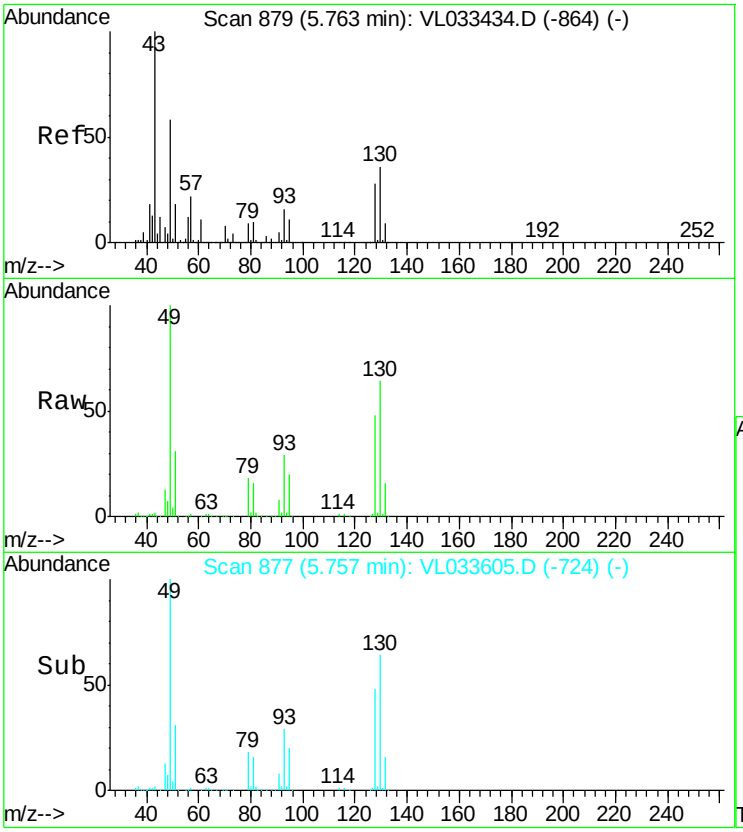
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL041719\
Data File : VL033605.D
Acq On : 17 Apr 2019 16:53
Operator : SY/AP
Sample : K2241-15 0.4 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Quant Time: Apr 22 11:21:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration



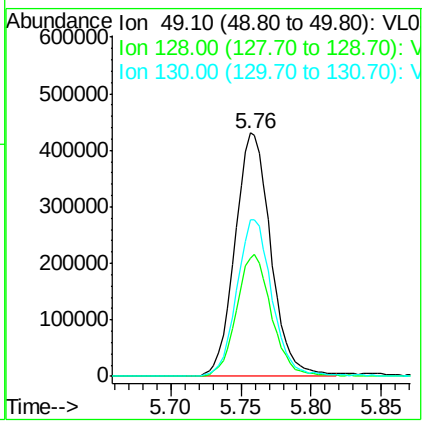


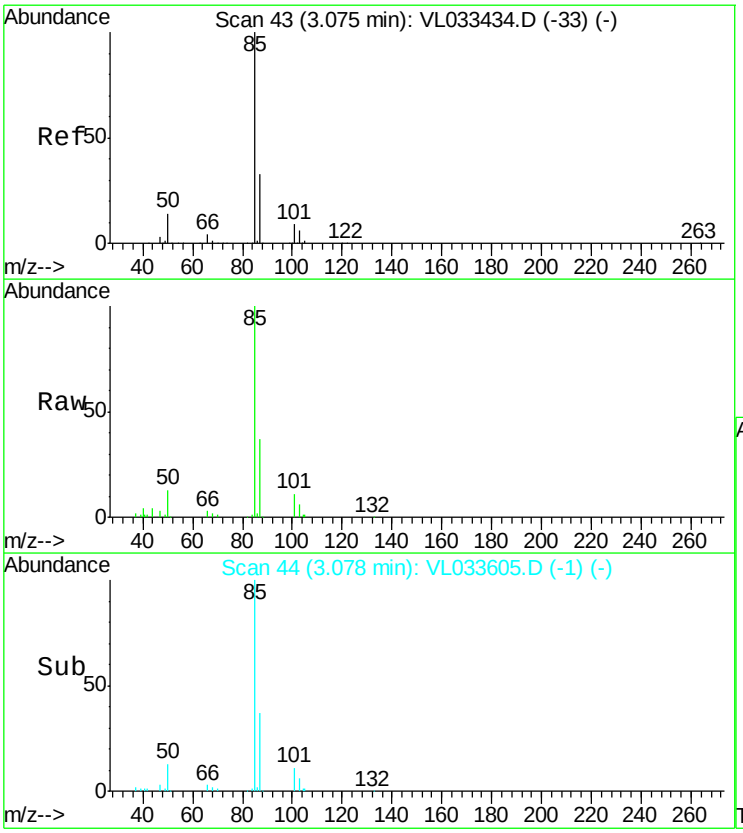
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 49 Resp: 766534

Ion	Ratio	Lower	Upper
49	100		
128	49.3	24.0	72.0
130	64.0	31.2	93.6

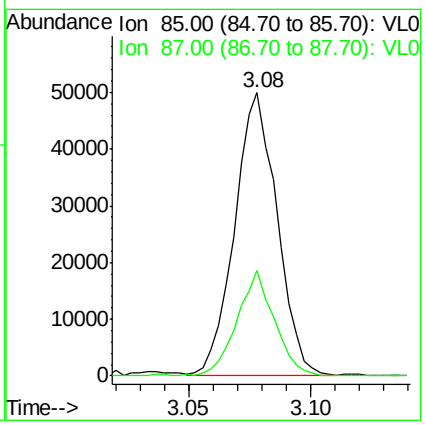


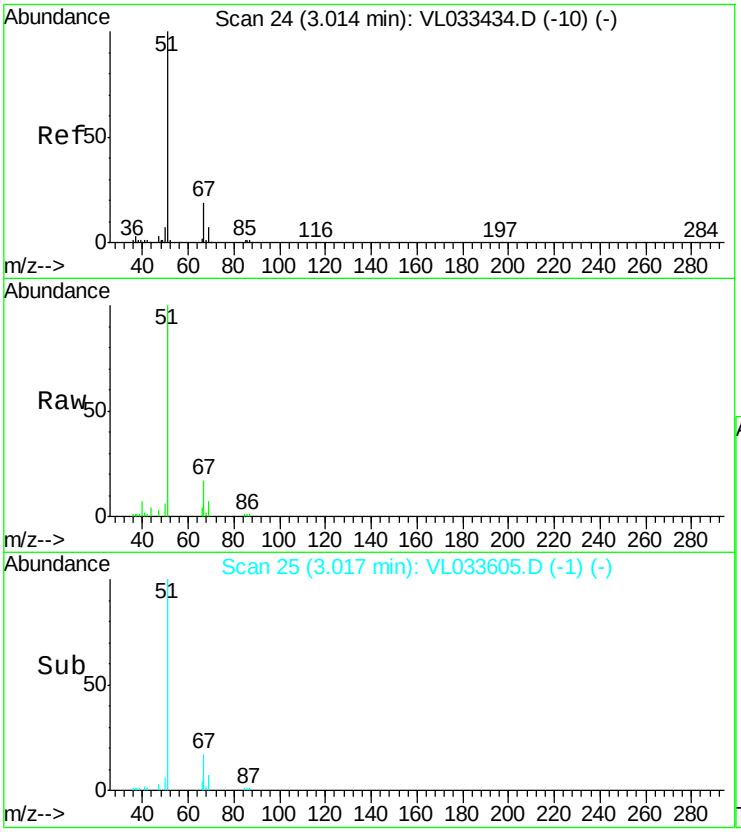


#2
Dichlorodifluoromethane
Concen: 0.533 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 85 Resp: 59543

Ion	Ratio	Lower	Upper
85	100		
87	37.3	26.7	40.1



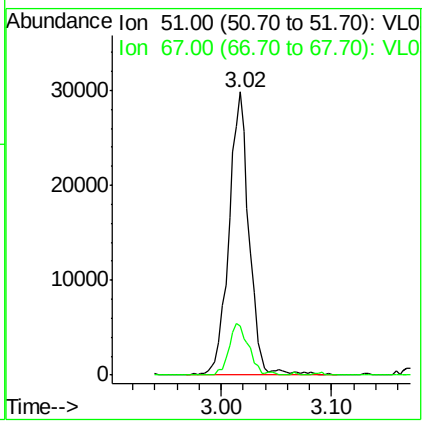


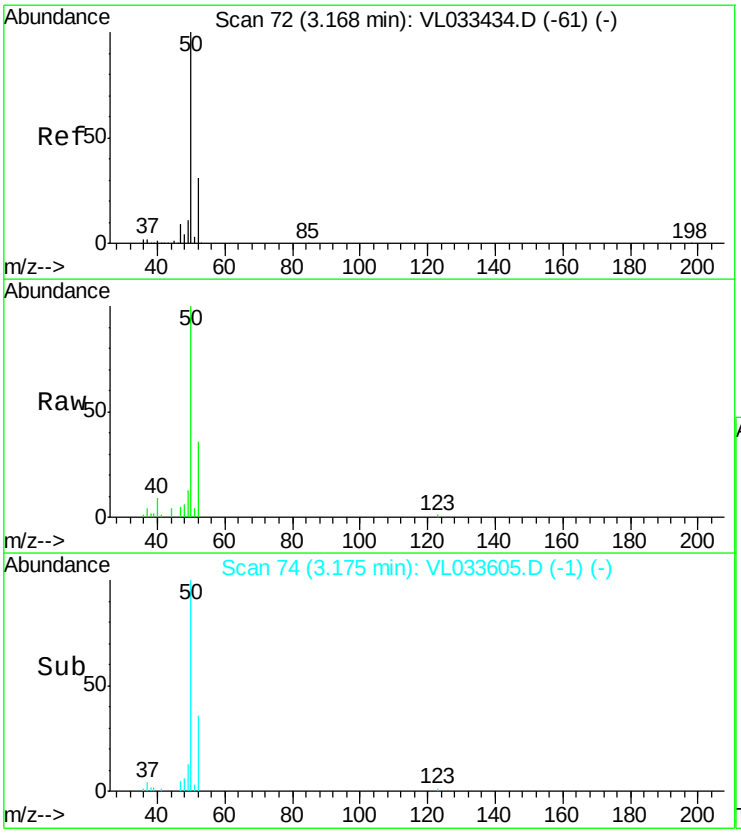
#3
Chlorodifluoromethane
Concen: 0.427 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 51 Resp: 37712

Ion	Ratio	Lower	Upper
51	100		
67	18.4	15.7	23.5

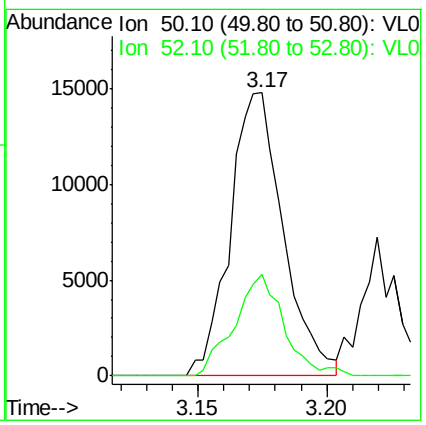


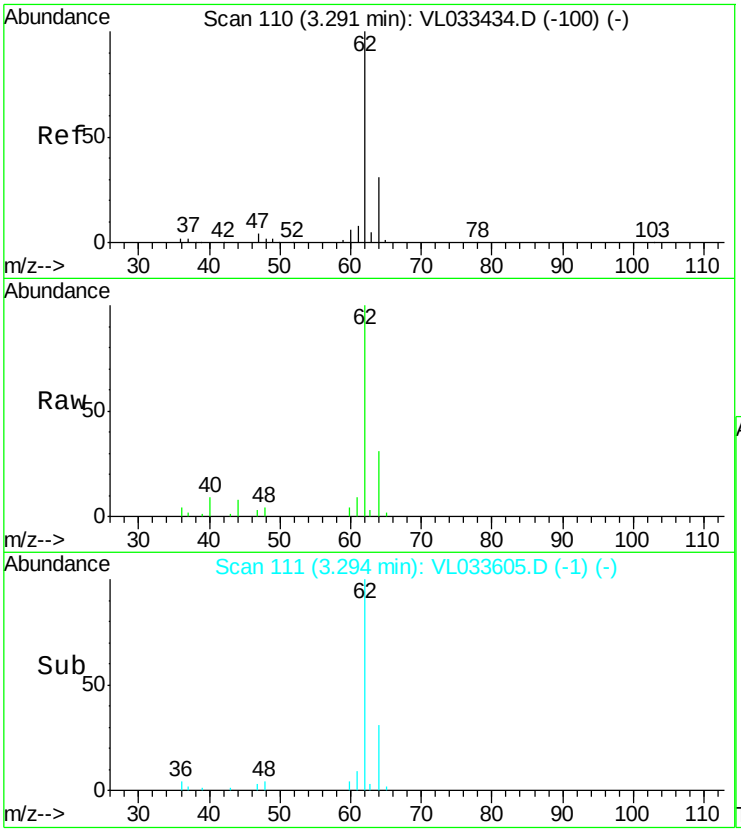


#4
Chloromethane
Concen: 0.454 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 50 Resp: 21187

Ion	Ratio	Lower	Upper
50	100		
52	36.1	25.0	37.6



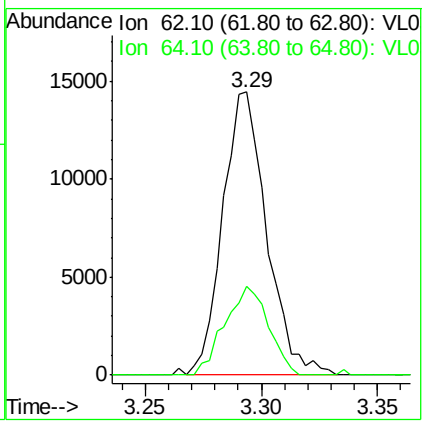


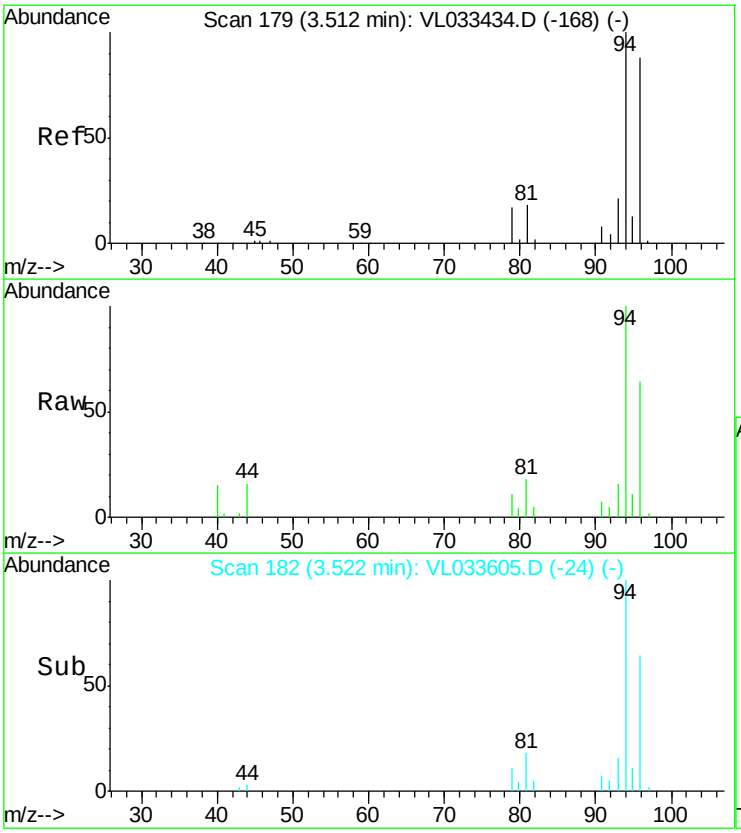
#5
Vinyl Chloride
Concen: 0.414 ppbv
RT: 3.29 min Scan# 111
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument : MSVOA_L
ClientSampleId : MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 62 Resp: 19009

Ion	Ratio	Lower	Upper
62	100		
64	30.4	24.9	37.3

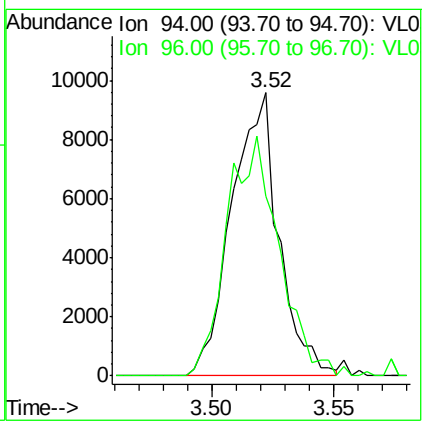


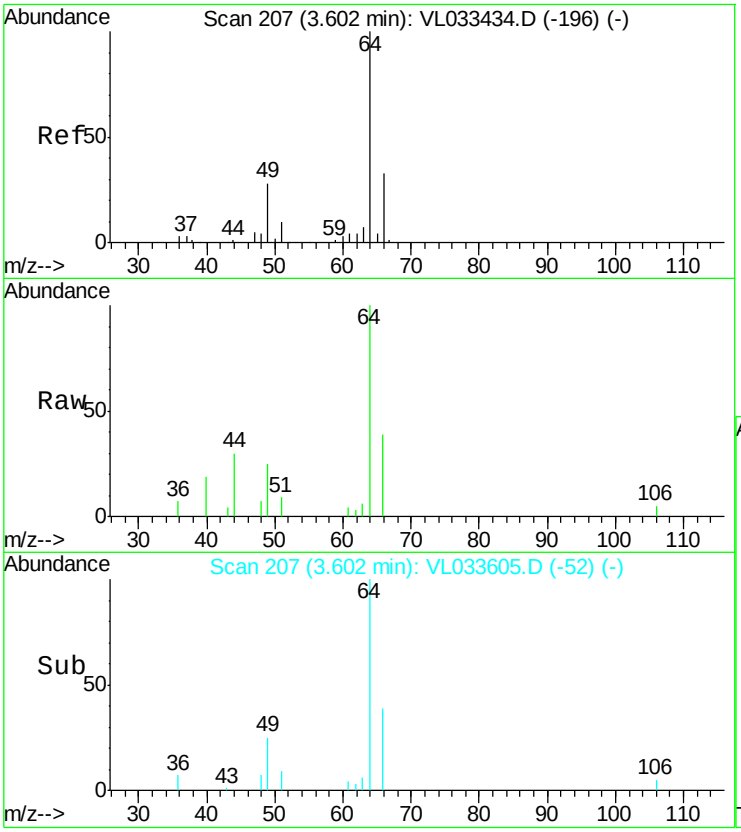


#6
Bromomethane
Concen: 0.434 ppbv
RT: 3.52 min Scan# 182
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 94 Resp: 12796

Ion	Ratio	Lower	Upper
94	100		
96	63.6	70.2	105.2#



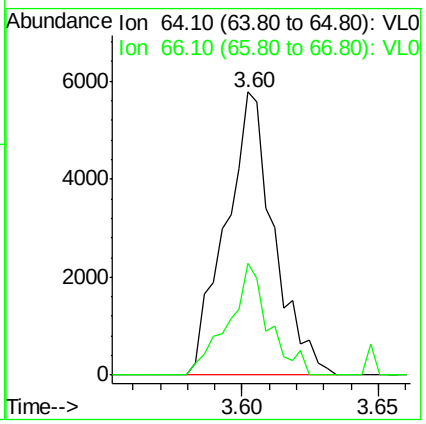


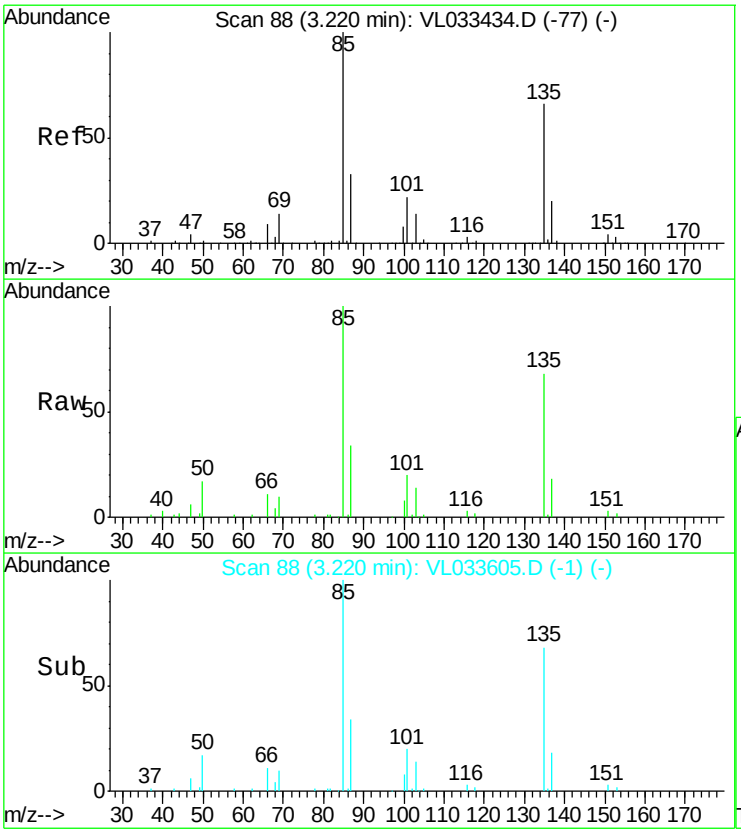
#7
Chloroethane
Concen: 0.414 ppbv
RT: 3.60 min Scan# 207
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 64 Resp: 7073

Ion	Ratio	Lower	Upper
64	100		
66	39.4	26.7	40.1

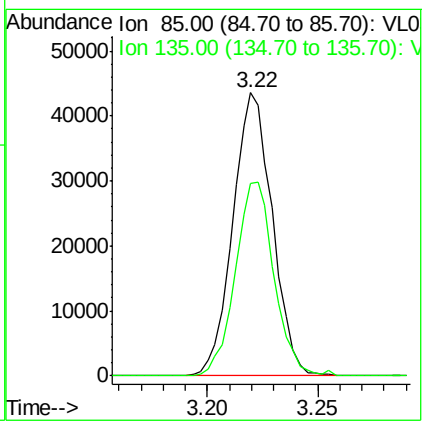


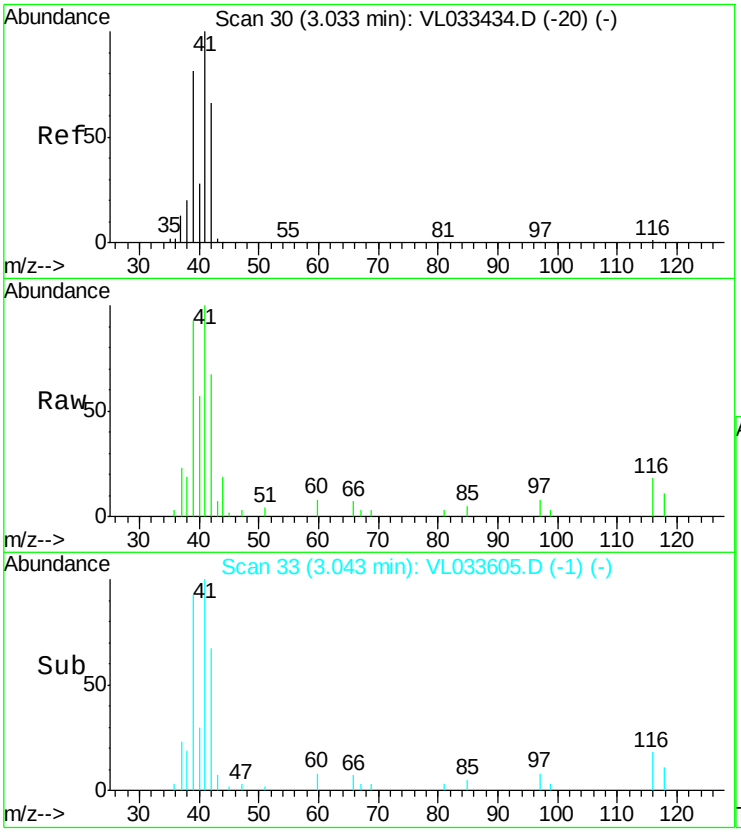


#8
Dichlorotetrafluoroethane
Concen: 0.456 ppbv
RT: 3.22 min Scan# 88
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 85 Resp: 54279

Ion	Ratio	Lower	Upper
85	100		
135	67.5	54.0	81.0



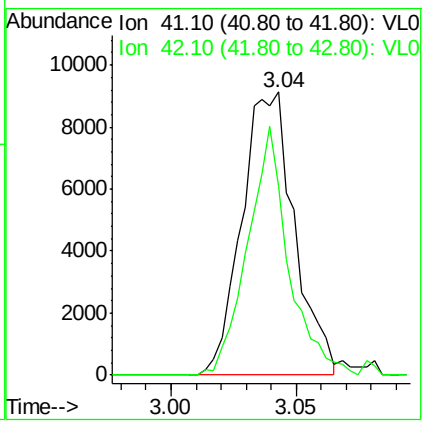


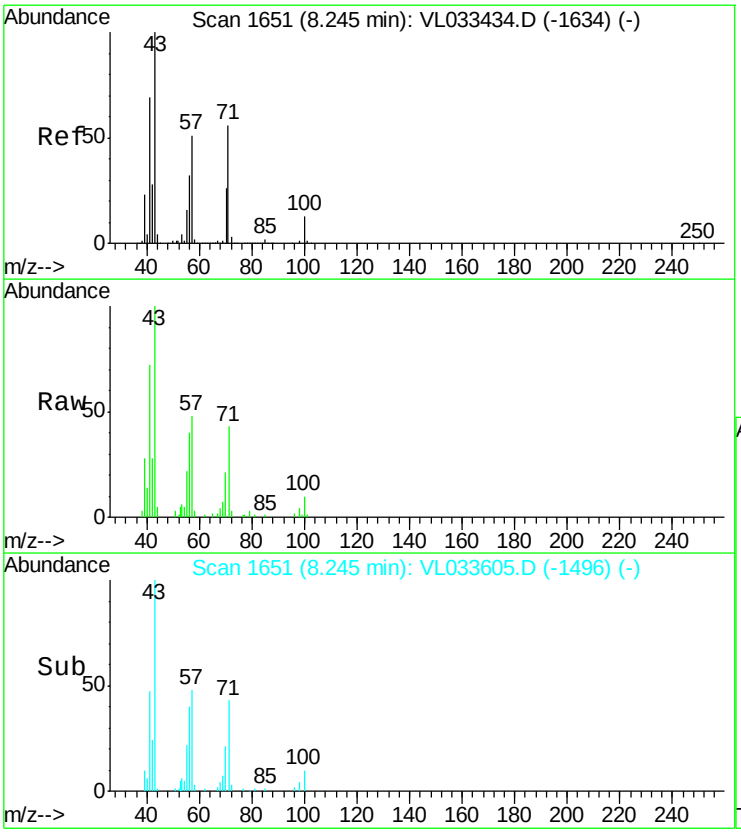
#9
Propene
Concen: 0.361 ppbv m
RT: 3.04 min Scan# 33
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 41 Resp: 13367

Ion	Ratio	Lower	Upper
41	100		
42	0.0	53.9	80.9#

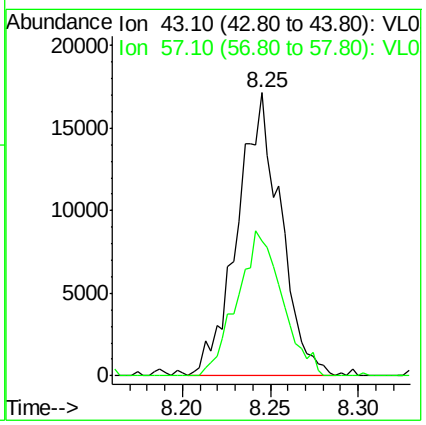


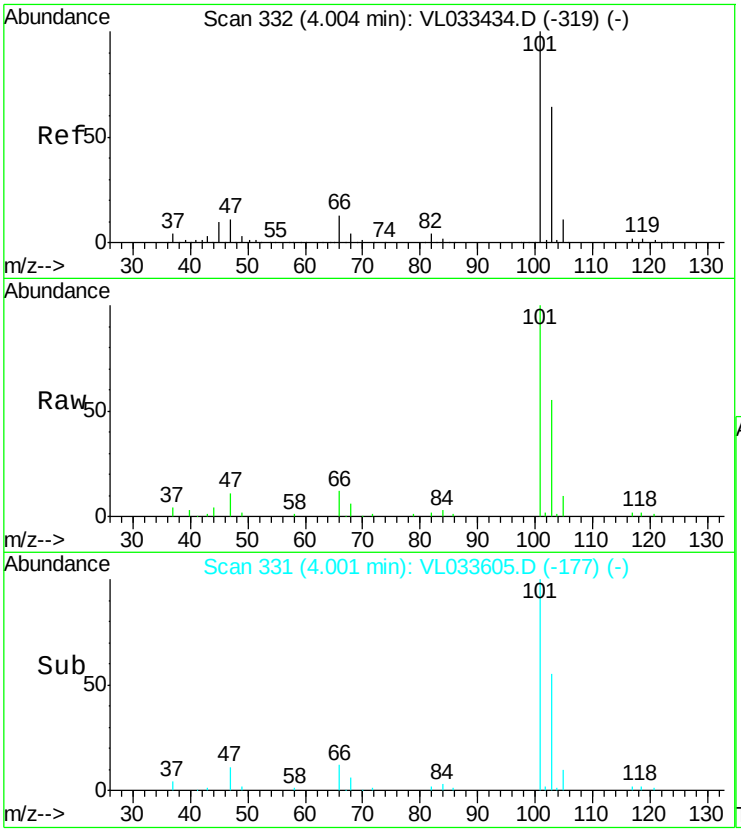


#10
Heptane
Concen: 0.295 ppbv m
RT: 8.25 min Scan# 1651
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 43 Resp: 29257

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.6	60.8#



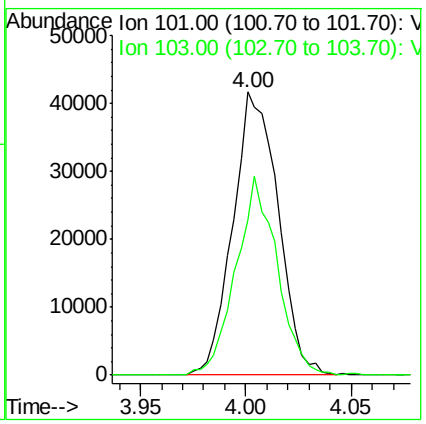


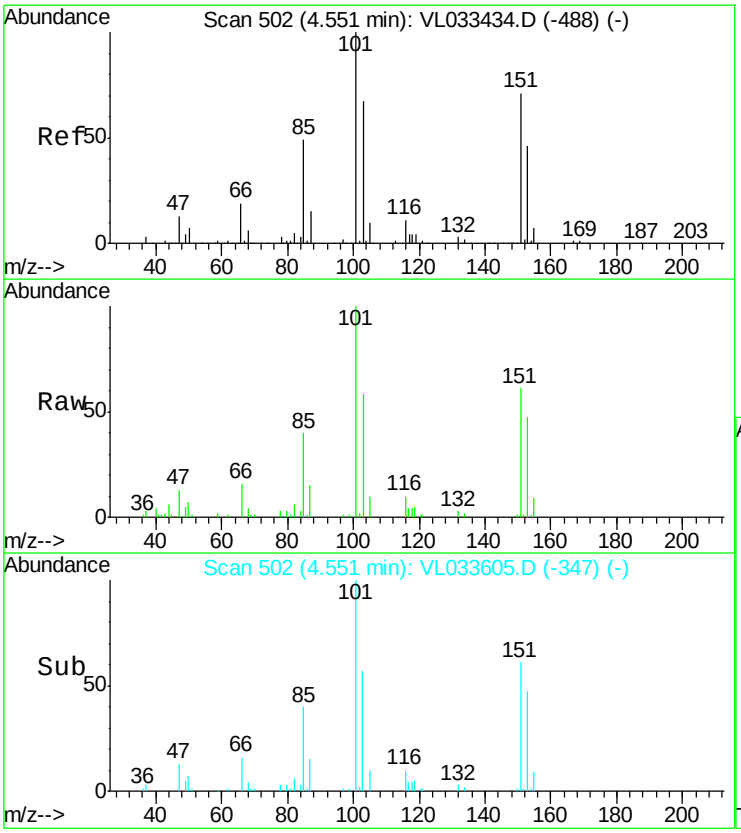
#11
Trichlorofluoromethane
Concen: 0.452 ppbv
RT: 4.00 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:101 Resp: 62230

Ion	Ratio	Lower	Upper
101	100		
103	55.0	51.3	76.9

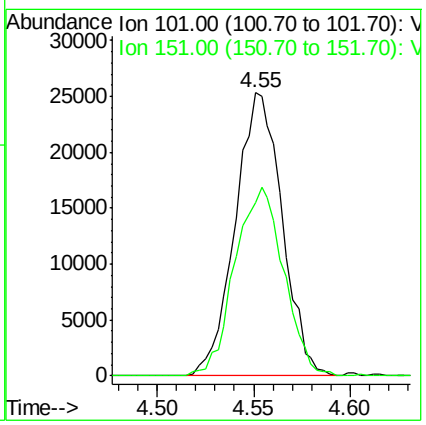


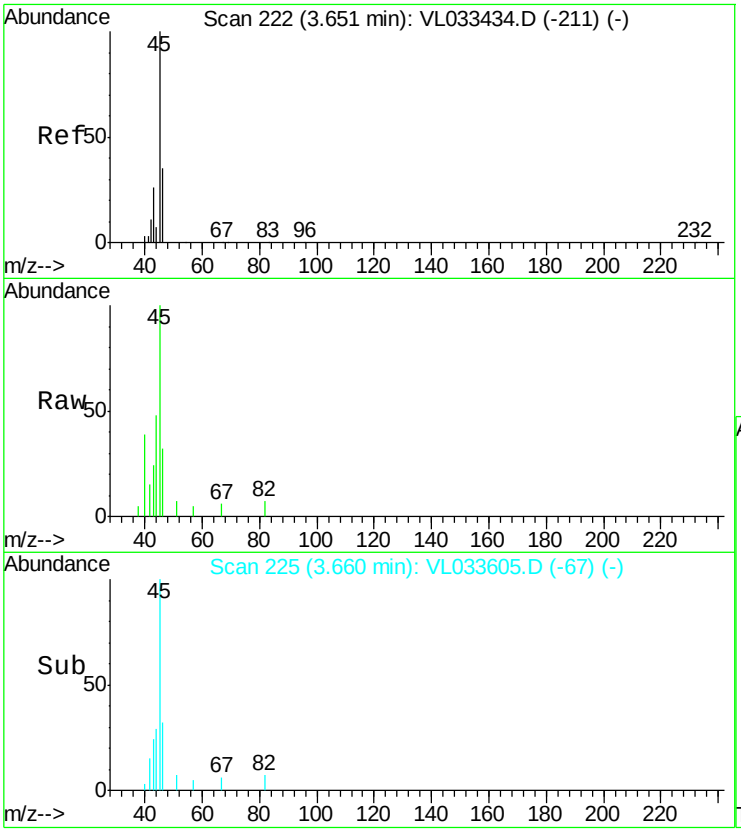


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.460 ppbv
RT: 4.55 min Scan# 502
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:101 Resp: 42588

Ion	Ratio	Lower	Upper
101	100		
151	69.5	57.7	86.5



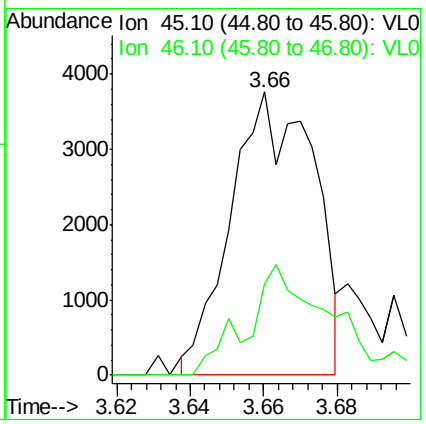


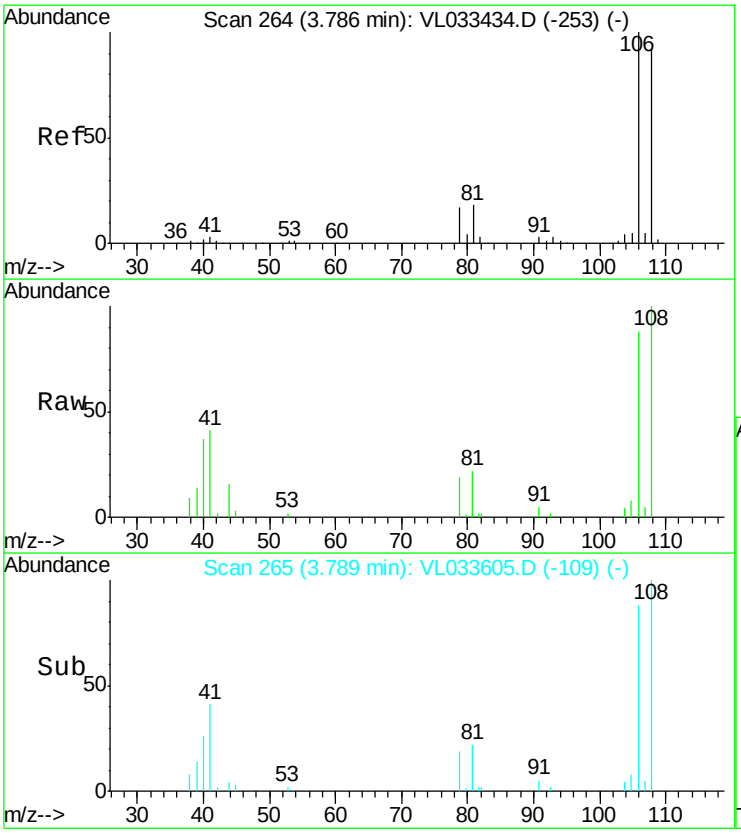
#13
Ethanol
Concen: 0.612 ppbv m
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 45 Resp: 5869

Ion	Ratio	Lower	Upper
45	100		
46	40.6	25.4	101.8

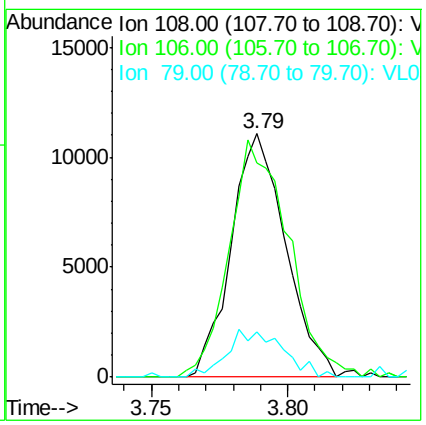


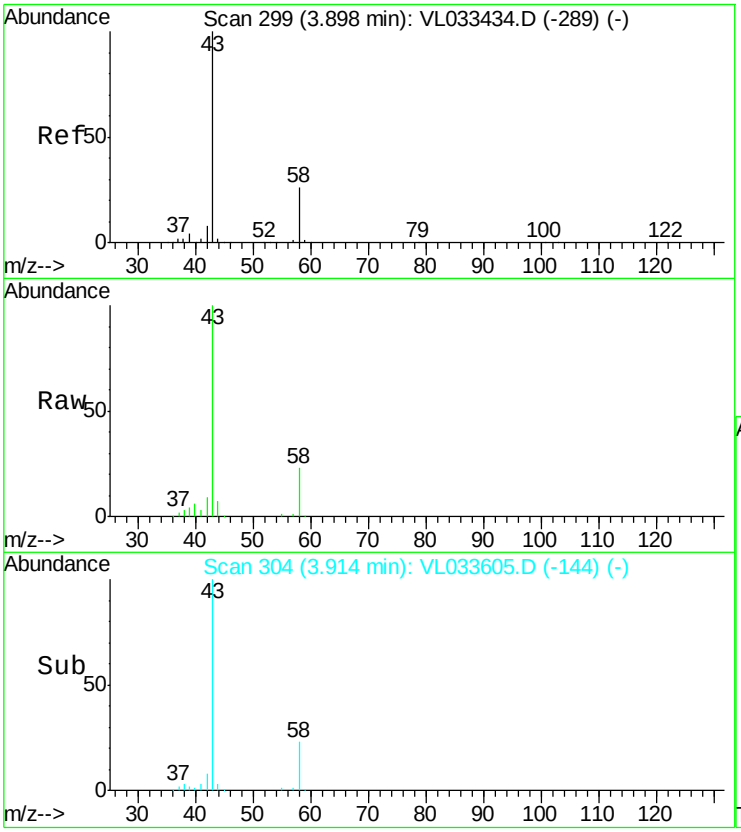


#14
Bromoethene
Concen: 0.416 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:108 Resp: 15368

Ion	Ratio	Lower	Upper
108	100		
106	106.5	86.4	129.6
79	19.8	15.8	23.8



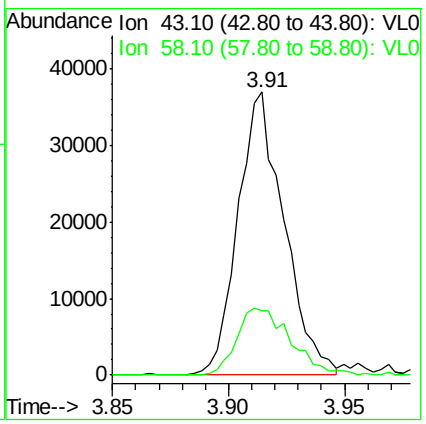


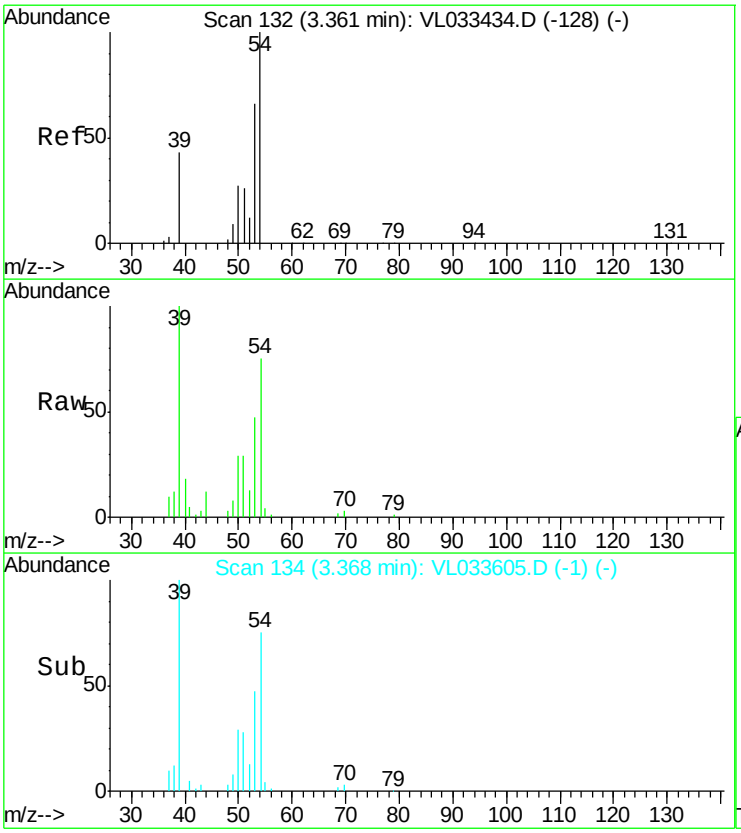
#15
Acetone
Concen: 0.554 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.02 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 43 Resp: 51073

Ion	Ratio	Lower	Upper
43	100		
58	27.7	20.5	30.7

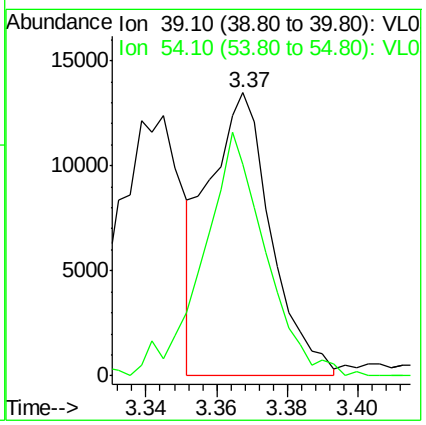


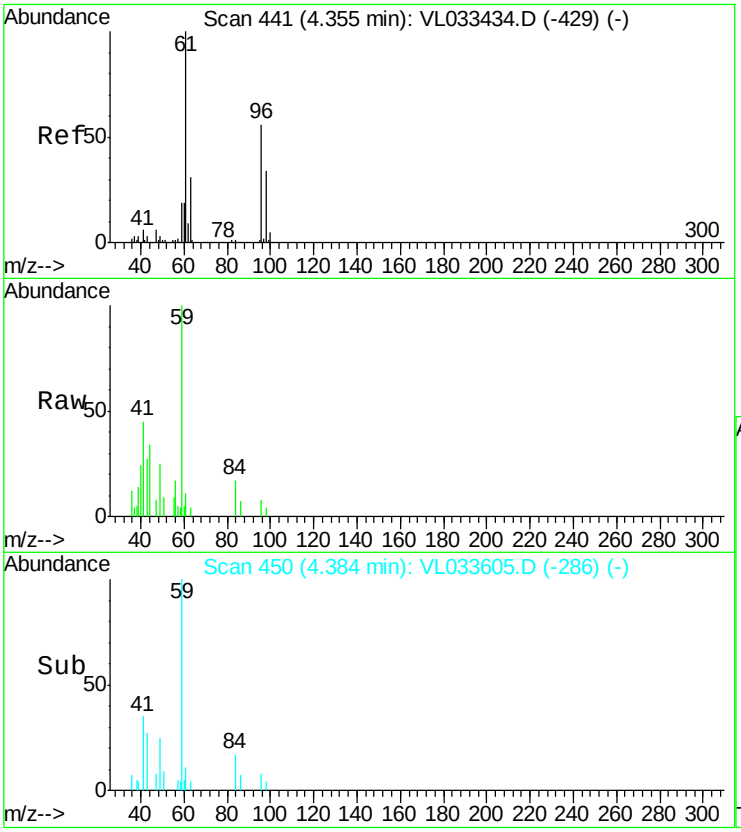


#16
1,3-Butadiene
Concen: 0.456 ppbv m
RT: 3.37 min Scan# 134
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 39 Resp: 16686

Ion	Ratio	Lower	Upper
39	100		
54	86.4	69.4	104.2



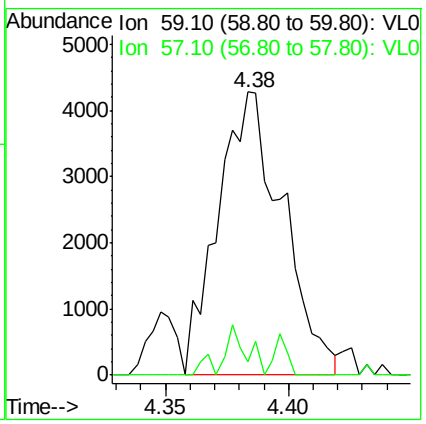


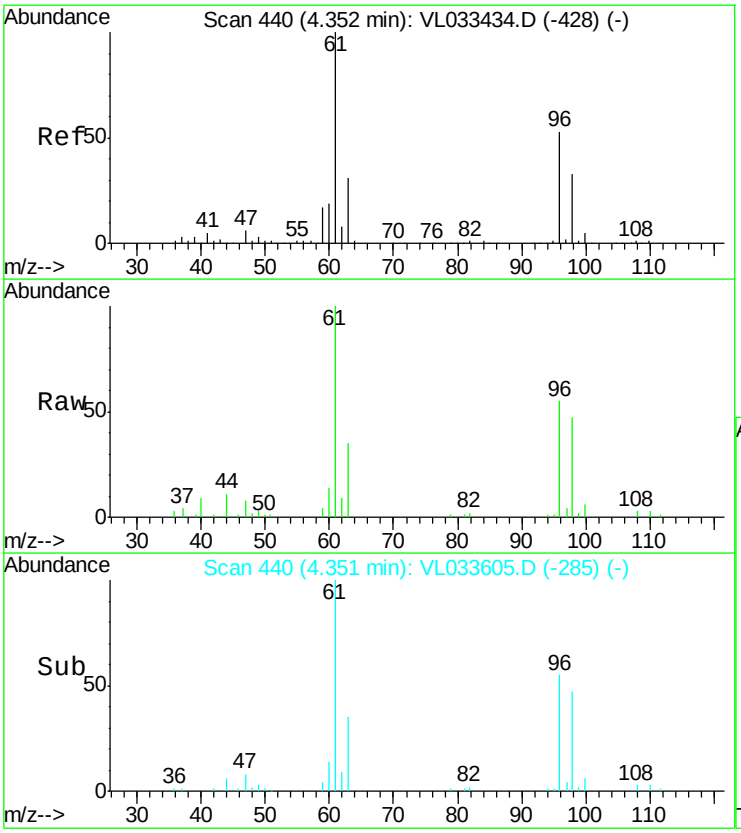
#17
tert-Butyl alcohol
Concen: 0.463 ppbv m
RT: 4.38 min Scan# 450
Delta R.T. 0.03 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 59 Resp: 7850

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.8#

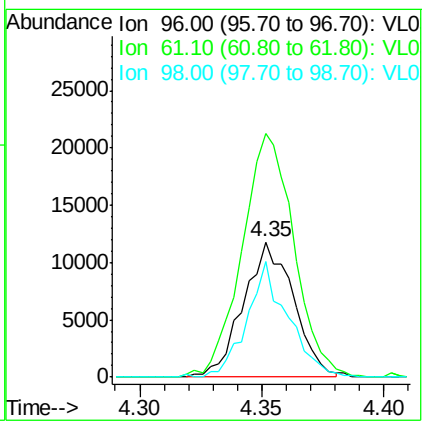


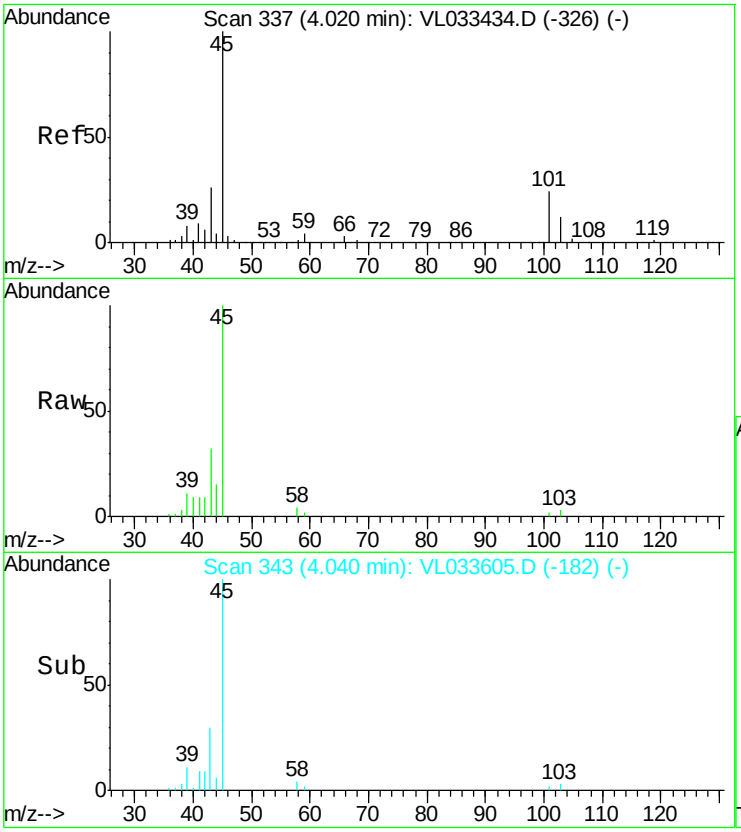


#18
1,1-Dichloroethene
Concen: 0.422 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 96 Resp: 16783

Ion	Ratio	Lower	Upper
96	100		
61	178.7	149.8	224.6
98	83.5	48.7	73.1#



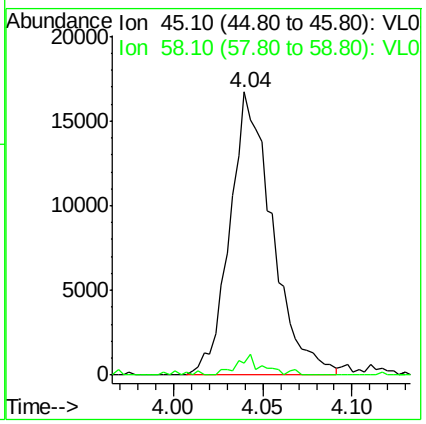


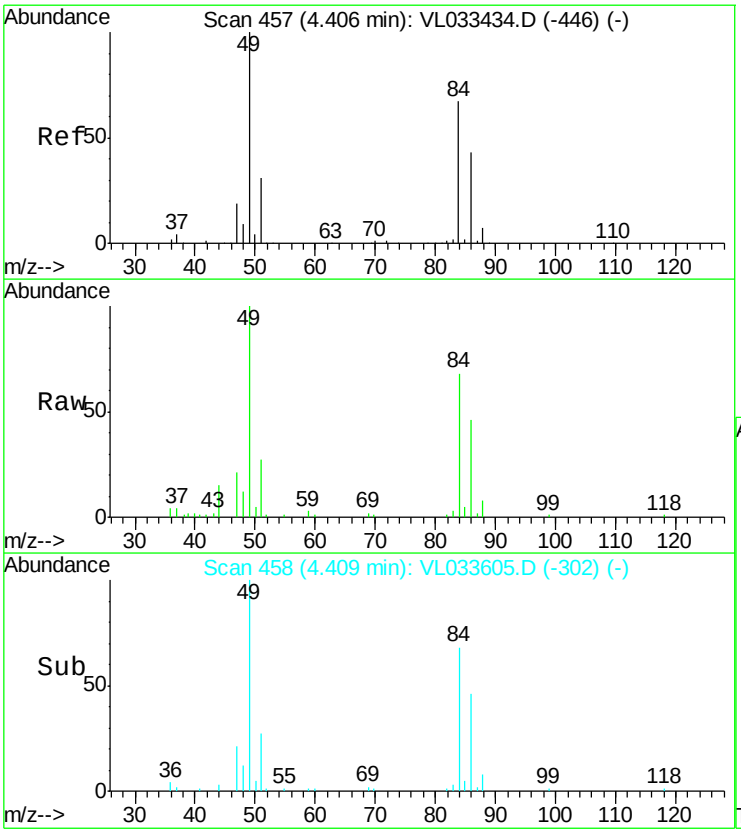
#19
Isopropyl Alcohol
Concen: 0.476 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 45 Resp: 27769

Ion	Ratio	Lower	Upper
45	100		
58	4.8	1.4	2.2#

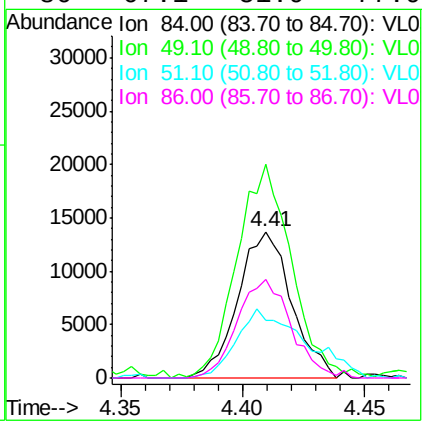


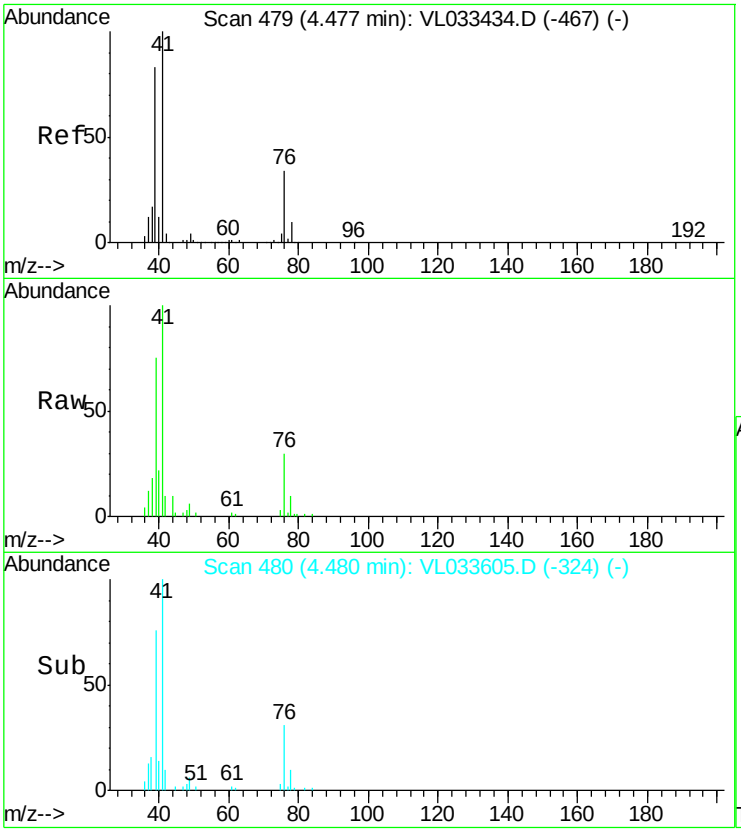


#20
Methylene Chloride
Concen: 0.533 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 84 Resp: 20840

Ion	Ratio	Lower	Upper
84	100		
49	145.1	120.0	180.0
51	39.9	36.7	55.1
86	67.1	51.9	77.9



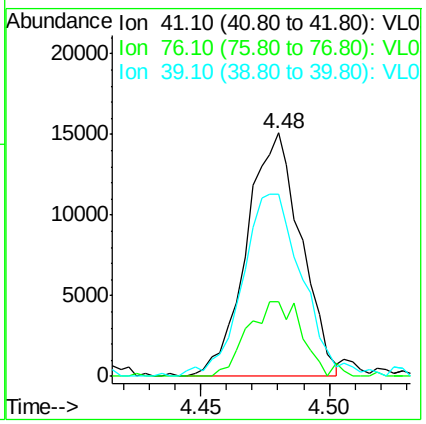


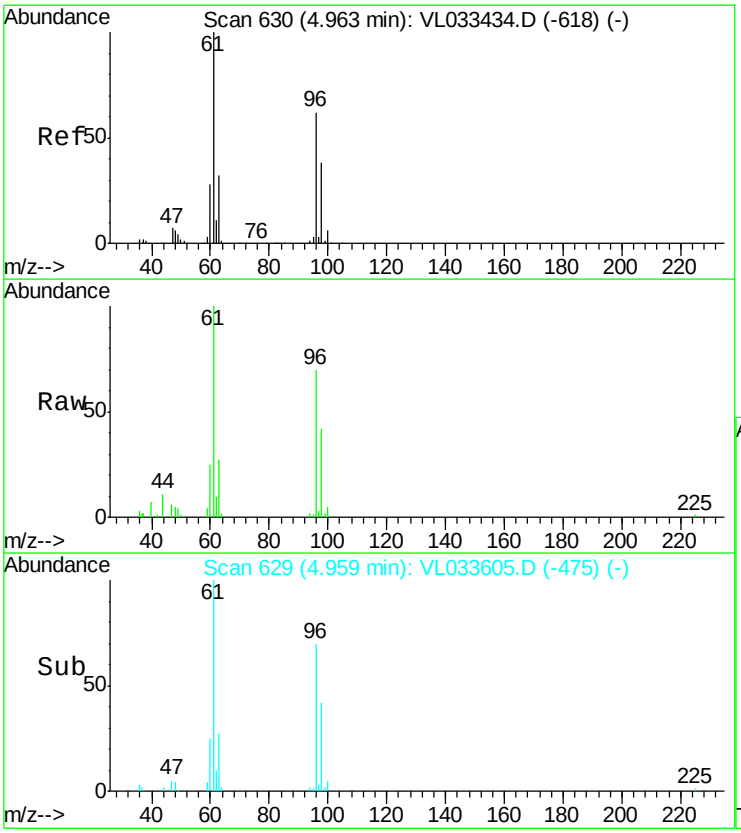
#21
Allyl Chloride
Concen: 0.381 ppbv
RT: 4.48 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 41 Resp: 22227

Ion	Ratio	Lower	Upper
41	100		
76	31.1	25.4	38.2
39	82.7	65.3	97.9

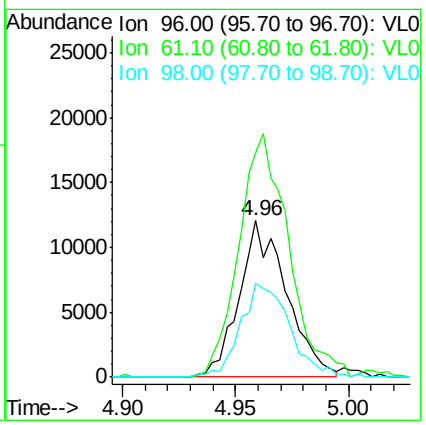


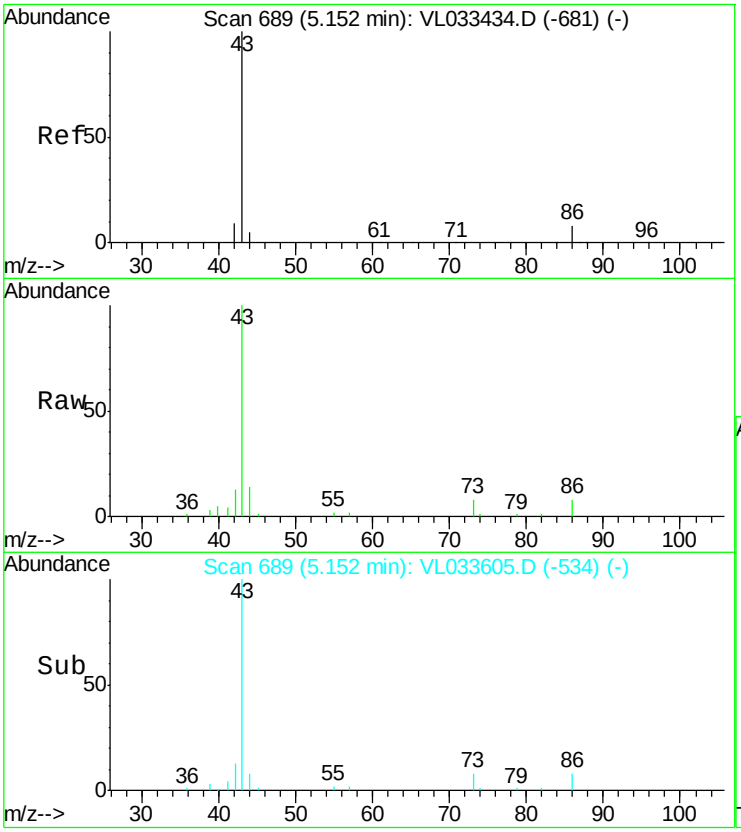


#22
trans-1,2-Dichloroethene
Concen: 0.425 ppbv m
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 96 Resp: 17629

Ion	Ratio	Lower	Upper
96	100		
61	143.7	128.9	193.3
98	60.5	49.5	74.3



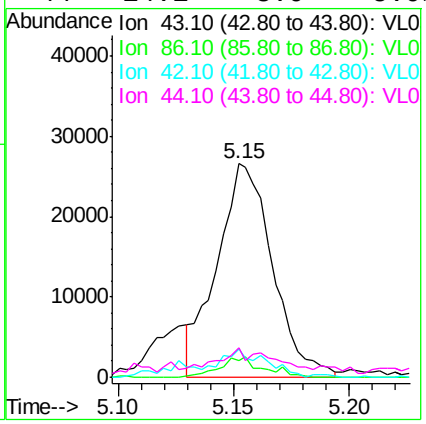


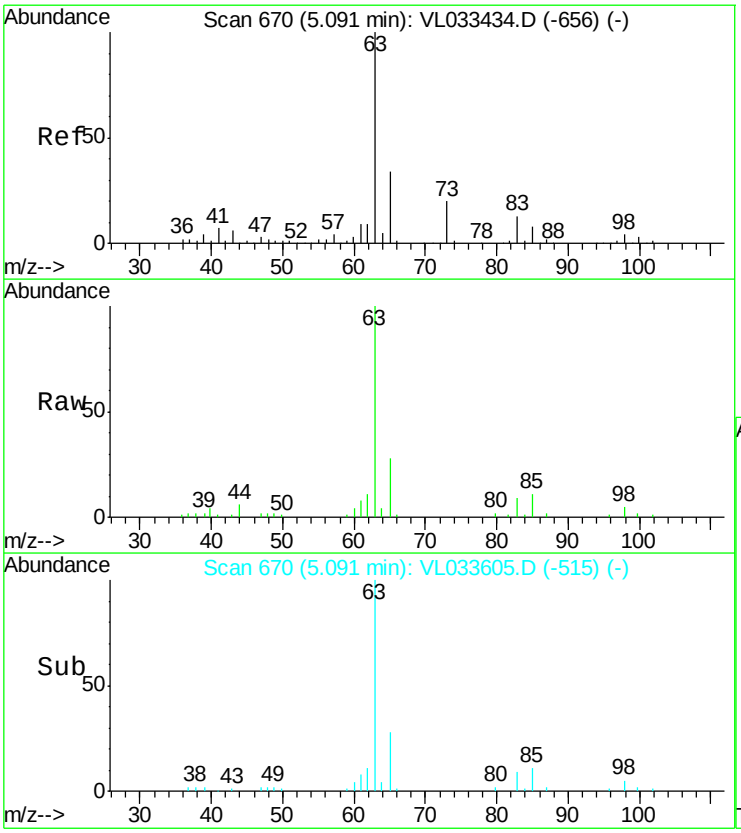
#23
Vinyl Acetate
Concen: 0.339 ppbv m
RT: 5.15 min Scan# 689
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 43 Resp: 44523

Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.6	8.4
42	13.1	8.0	12.0#
44	14.1	3.9	5.9#

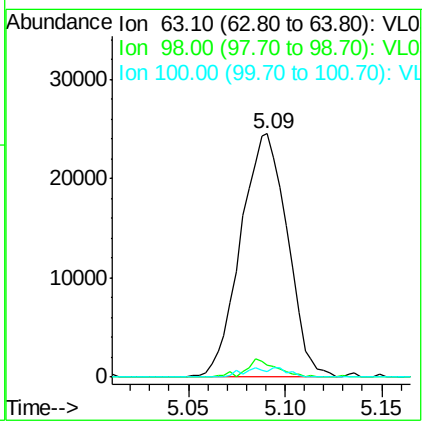


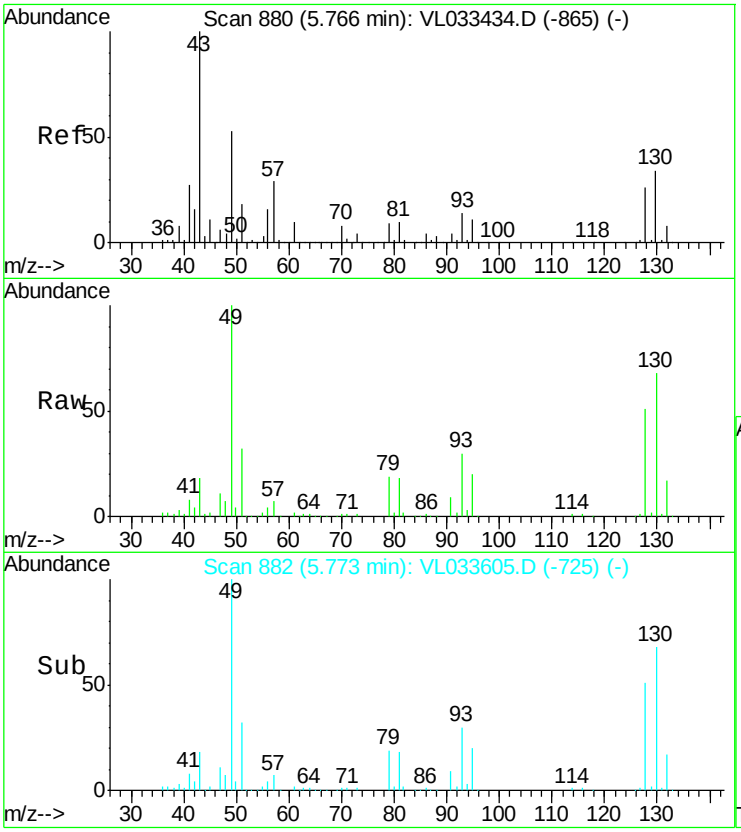


#24
1,1-Dichloroethane
Concen: 0.413 ppbv
RT: 5.09 min Scan# 670
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 63 Resp: 41182

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.2	6.6
100	2.4	1.5	4.4



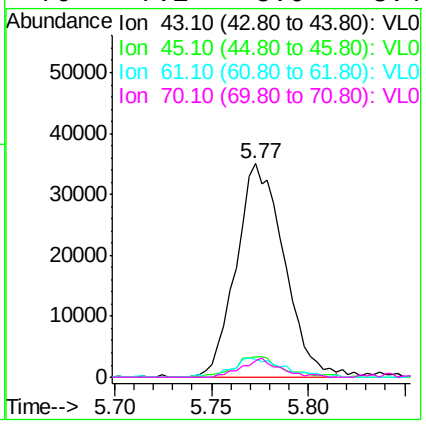


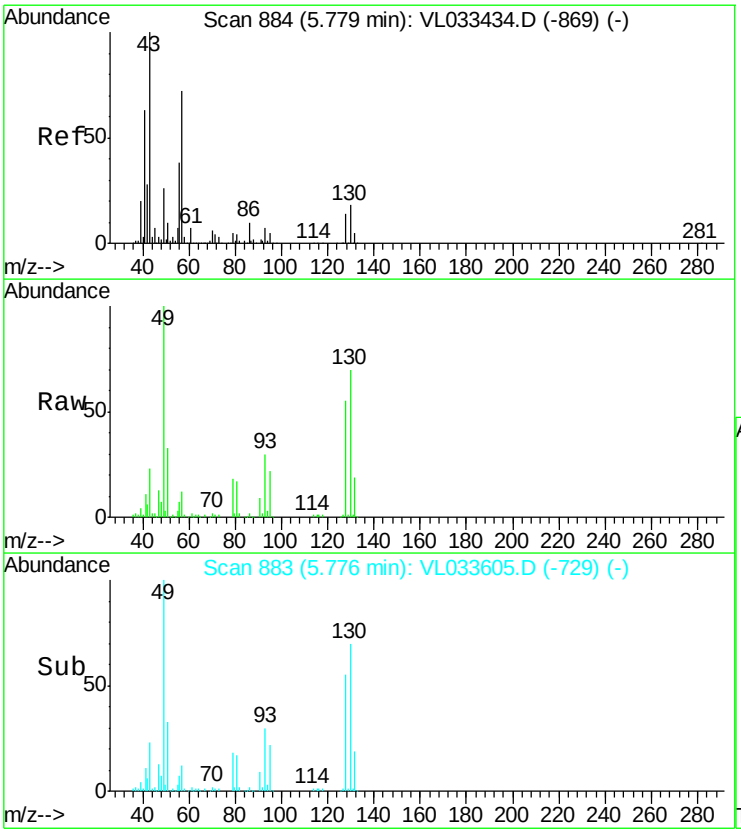
#25
Ethyl Acetate
Concen: 0.353 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument : MSVOA_L
ClientSampleId : MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 43 Resp: 60342

Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.3	7.3	10.9
70	7.1	5.6	8.4

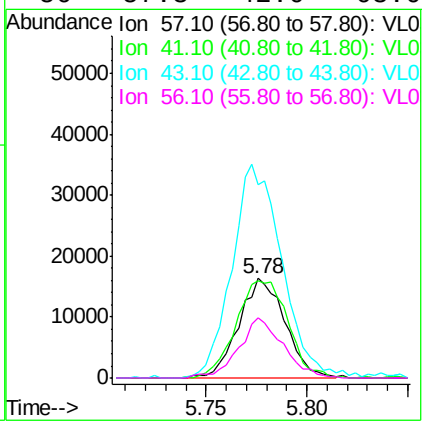


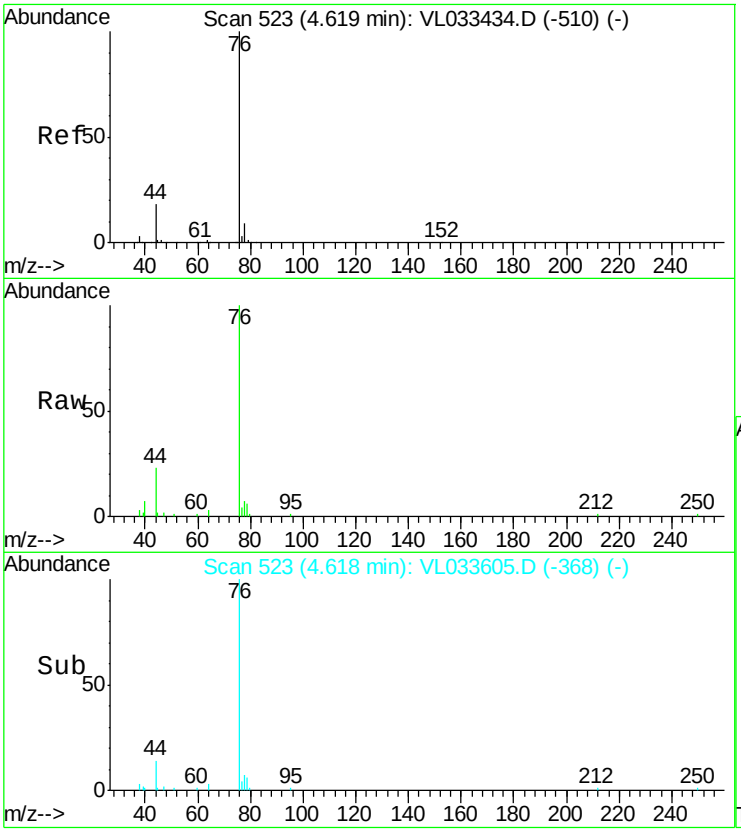


#26
Hexane
Concen: 0.348 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 57 Resp: 26465

Ion	Ratio	Lower	Upper
57	100		
41	109.5	70.7	106.1#
43	233.3	182.6	274.0
56	57.3	42.0	63.0



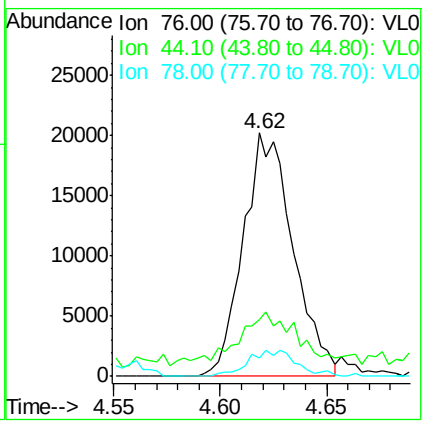


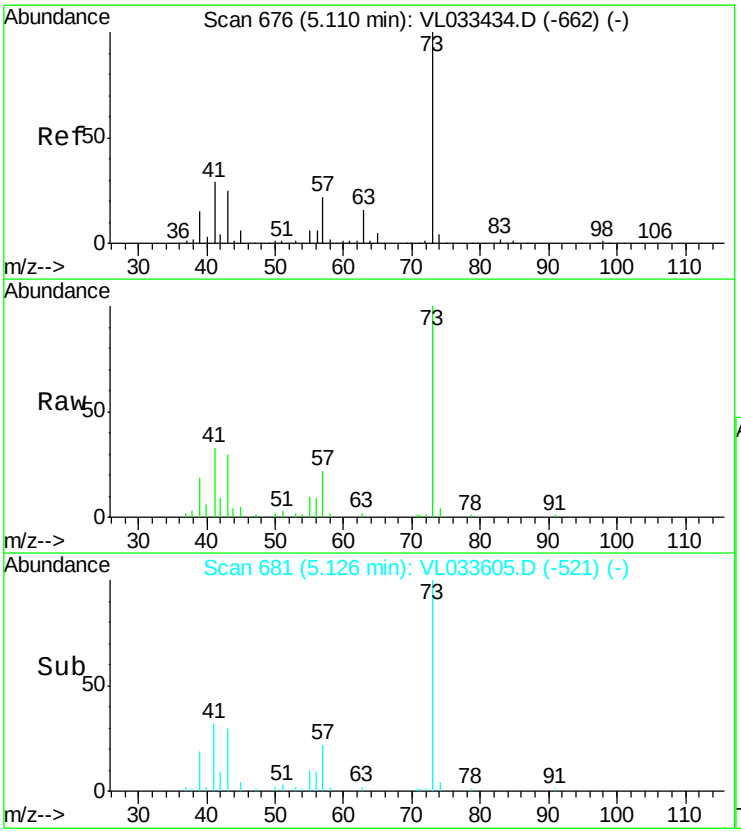
#27
Carbon Disulfide
Concen: 0.362 ppbv m
RT: 4.62 min Scan# 523
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 76 Resp: 32703

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.8	22.2#
78	0.0	7.6	11.4#

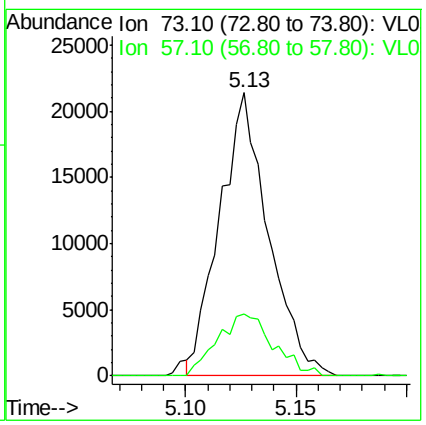


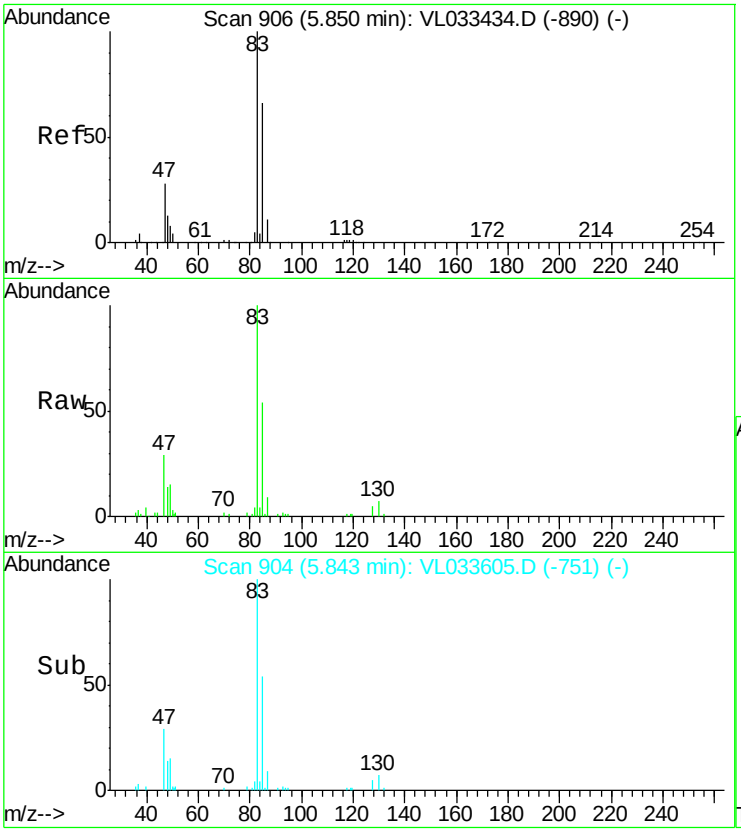


#28
Methyl tert-Butyl Ether
Concen: 0.299 ppbv
RT: 5.13 min Scan# 681
Delta R.T. 0.02 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 73 Resp: 32768

Ion	Ratio	Lower	Upper
73	100		
57	25.2	17.4	26.2



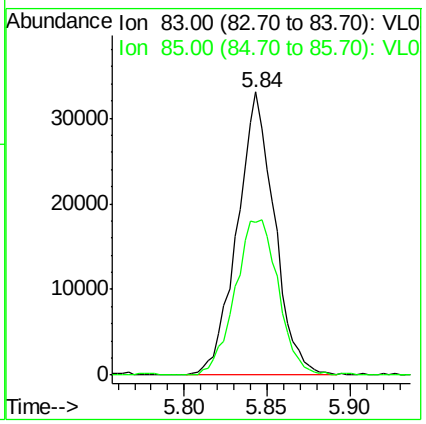


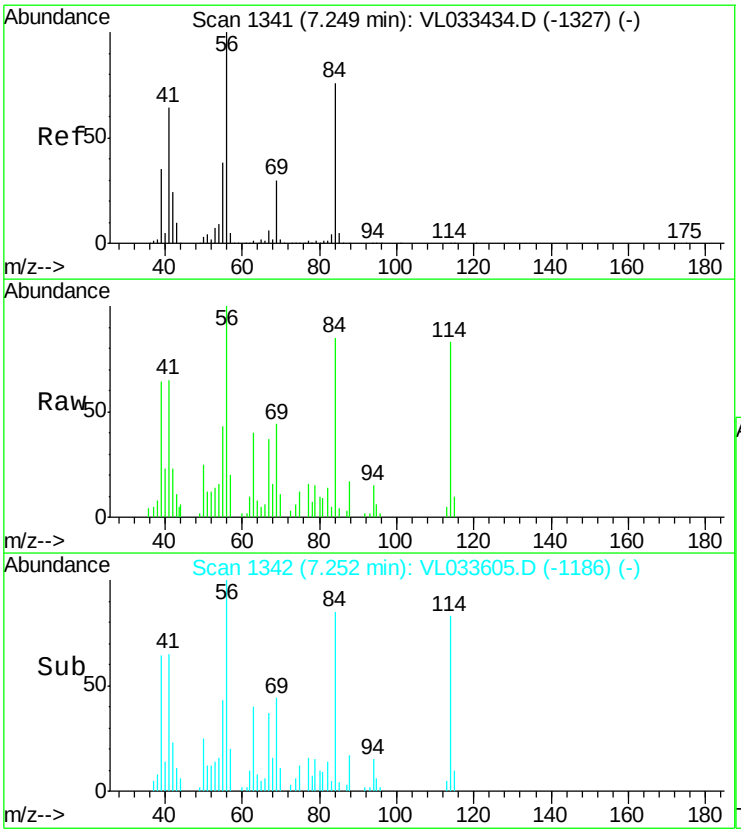
#29
Chloroform
Concen: 0.395 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 83 Resp: 51546

Ion	Ratio	Lower	Upper
83	100		
85	54.2	52.6	79.0

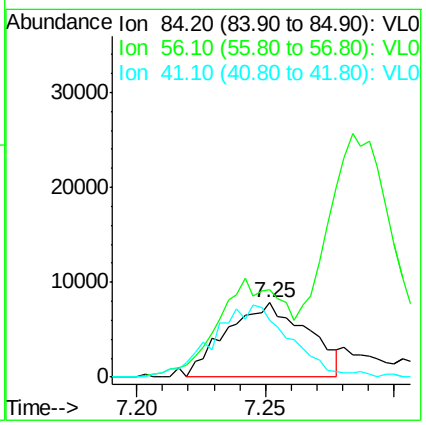


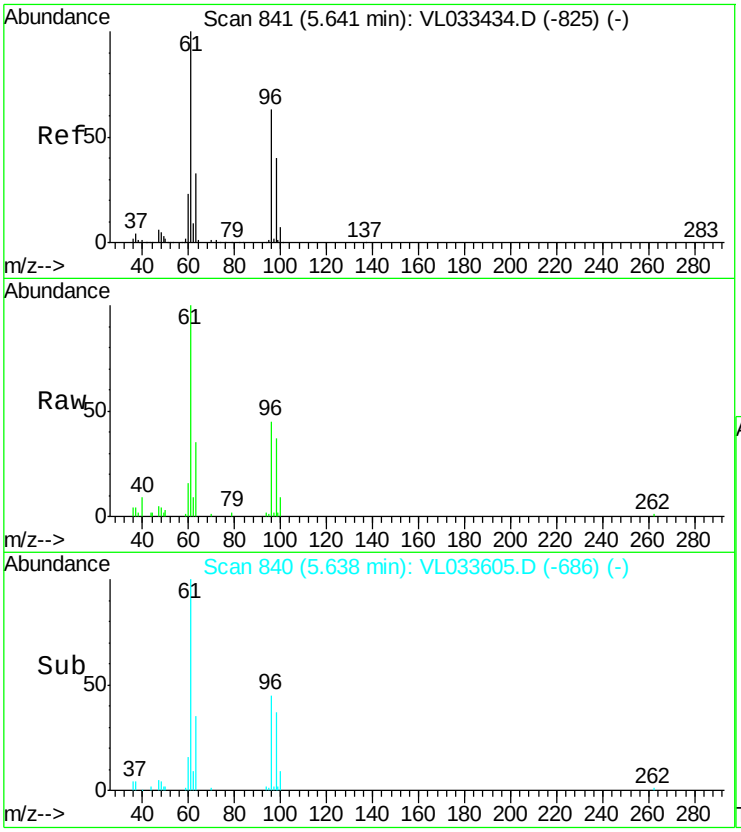


#30
Cyclohexane
Concen: 0.284 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 84 Resp: 17099

Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.7	164.5#
41	94.1	68.2	102.2



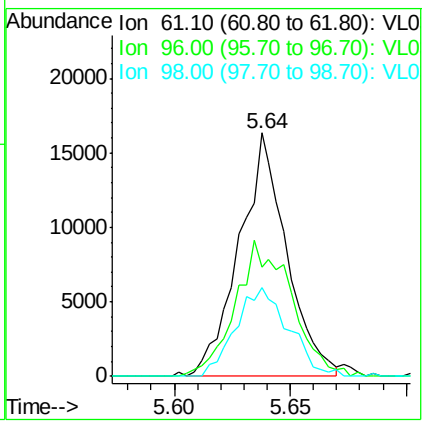


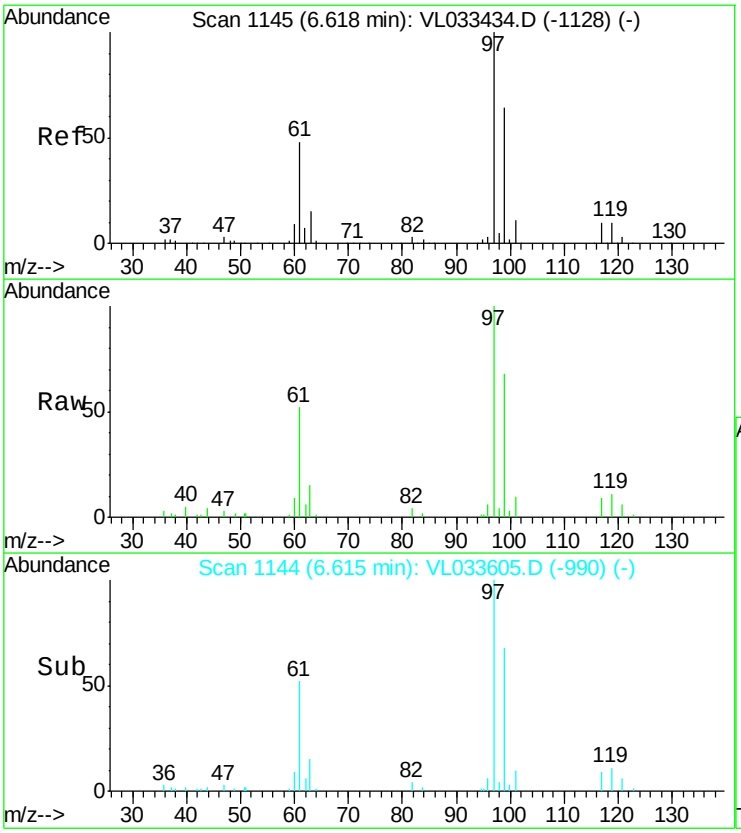
#31
cis-1,2-Dichloroethene
Concen: 0.307 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 61 Resp: 23223

Ion	Ratio	Lower	Upper
61	100		
96	40.0	50.6	76.0#
98	35.1	32.2	48.2

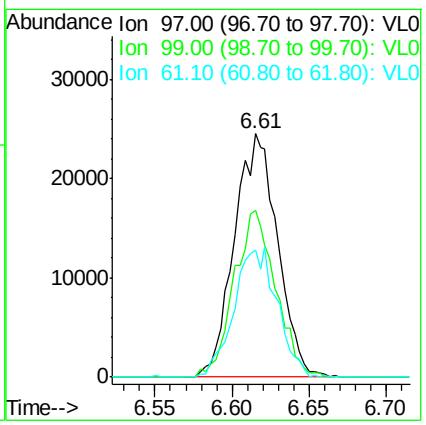


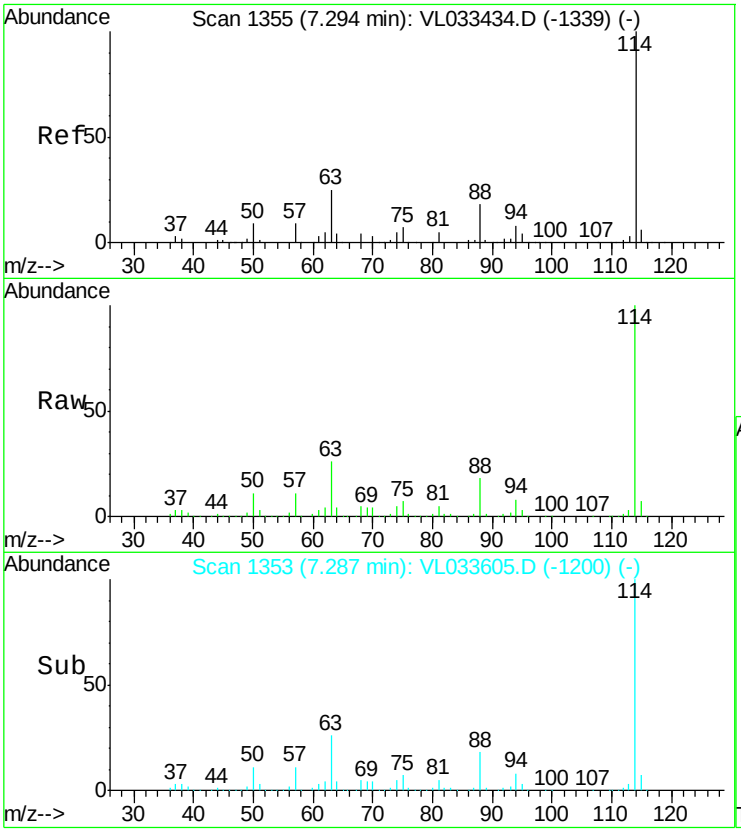


#32
1,1,1-Trichloroethane
Concen: 0.385 ppbv m
RT: 6.61 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 97 Resp: 47744

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.5	77.3
61	52.9	38.8	58.2



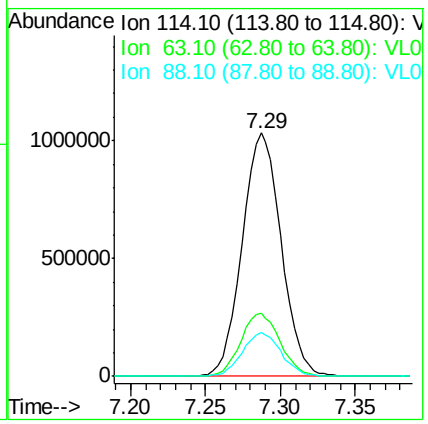


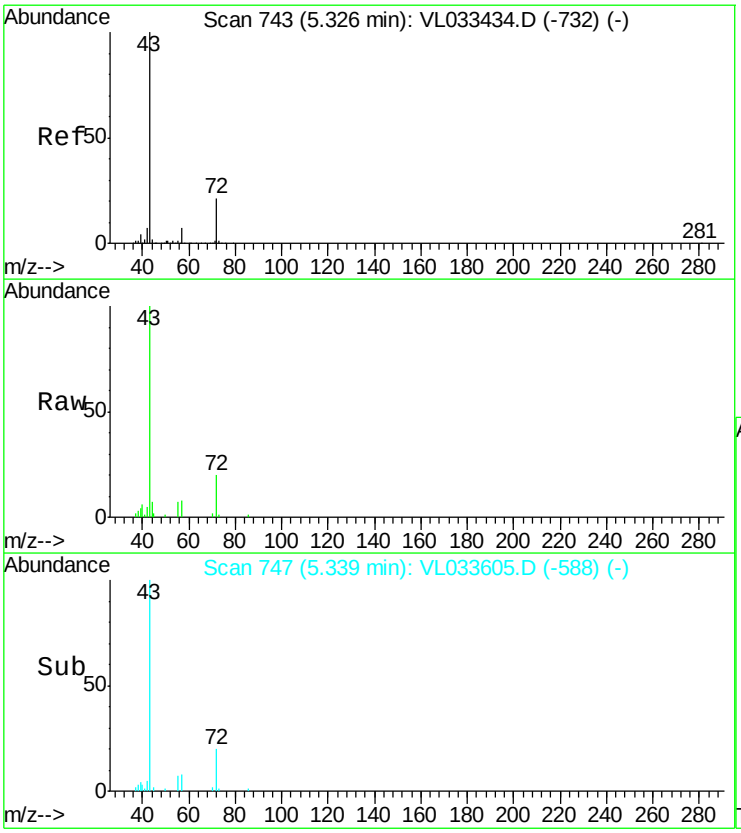
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:114 Resp: 1873447

Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.5	32.3
88	18.0	14.5	21.7

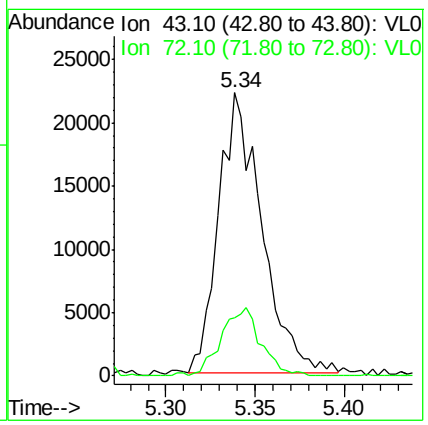


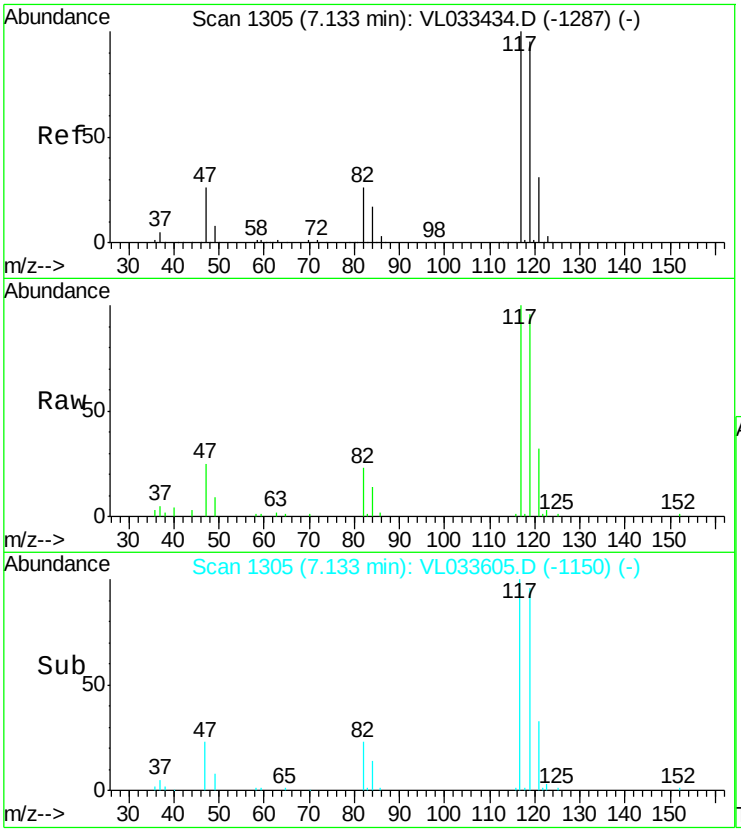


#34
2-Butanone
Concen: 0.330 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 43 Resp: 37166

Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.4	26.2



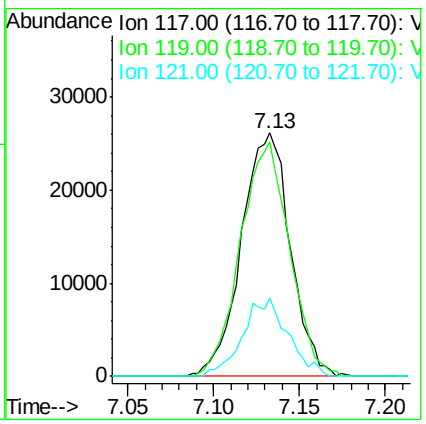


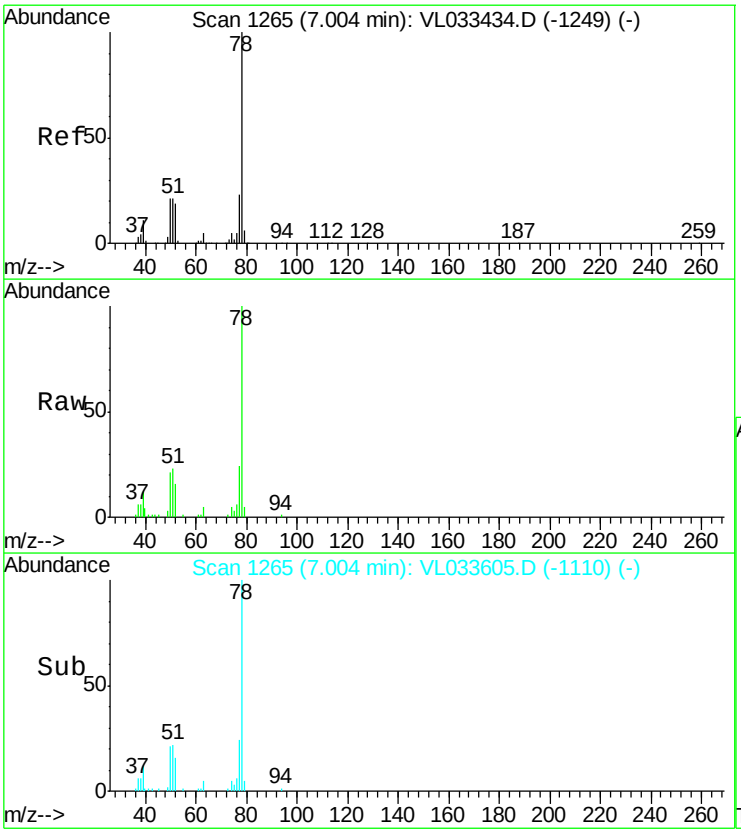
#35
Carbon Tetrachloride
Concen: 0.388 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:117 Resp: 51491

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.8	113.8
121	32.0	24.7	37.1

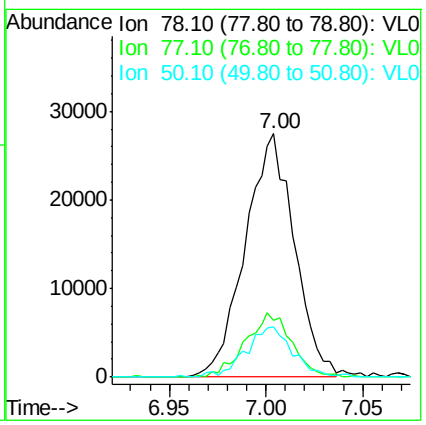


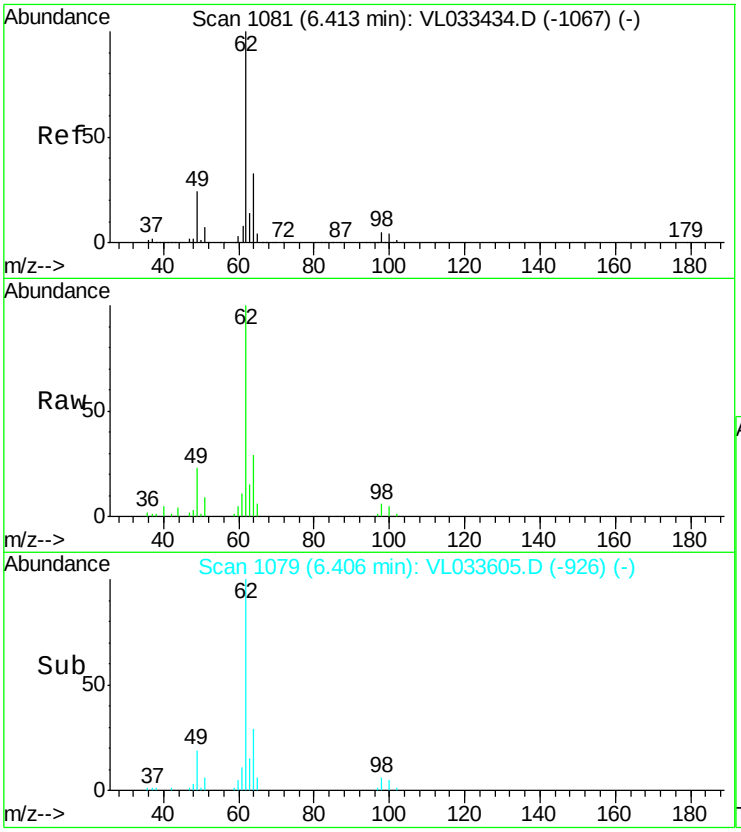


#36
Benzene
Concen: 0.308 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 78 Resp: 48414

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.1	27.1
50	20.7	16.7	25.1



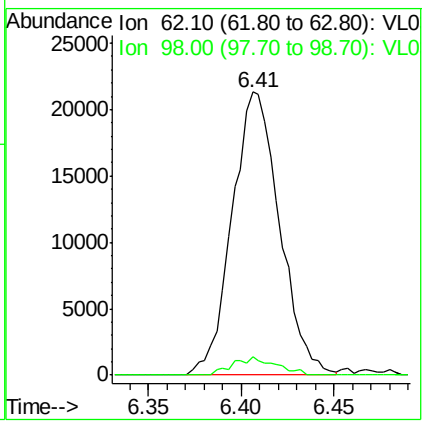


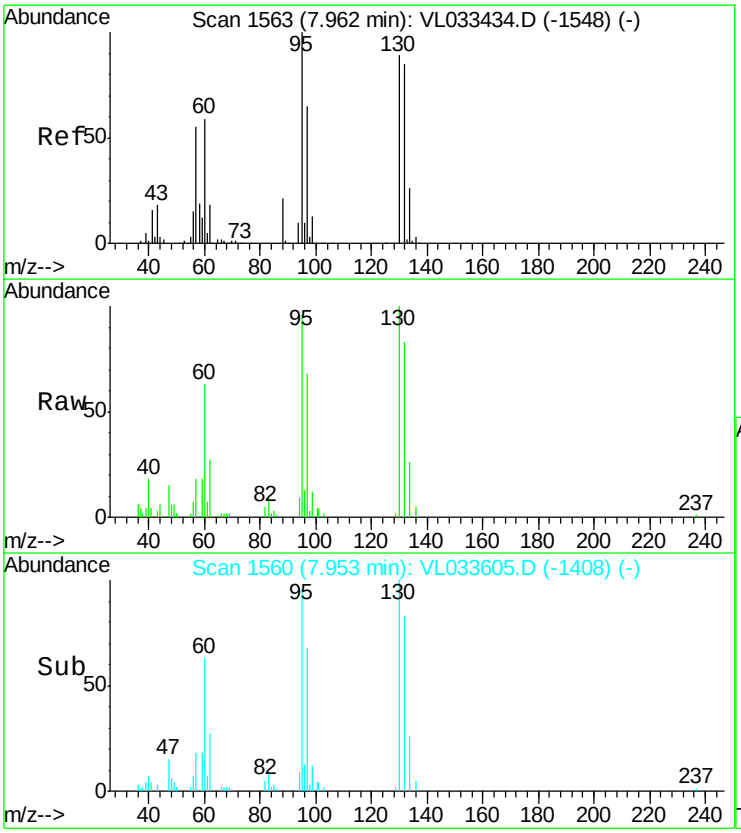
#37
1,2-Dichloroethane
Concen: 0.360 ppbv
RT: 6.41 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 62 Resp: 37964

Ion	Ratio	Lower	Upper
62	100		
98	5.8	4.4	6.6

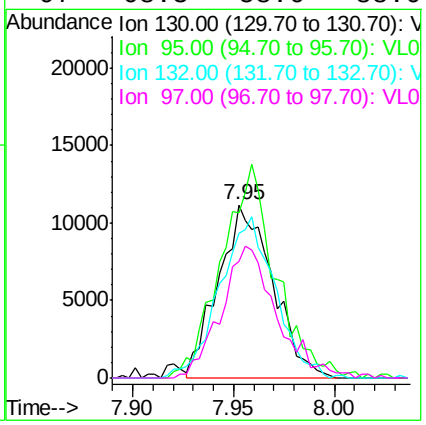


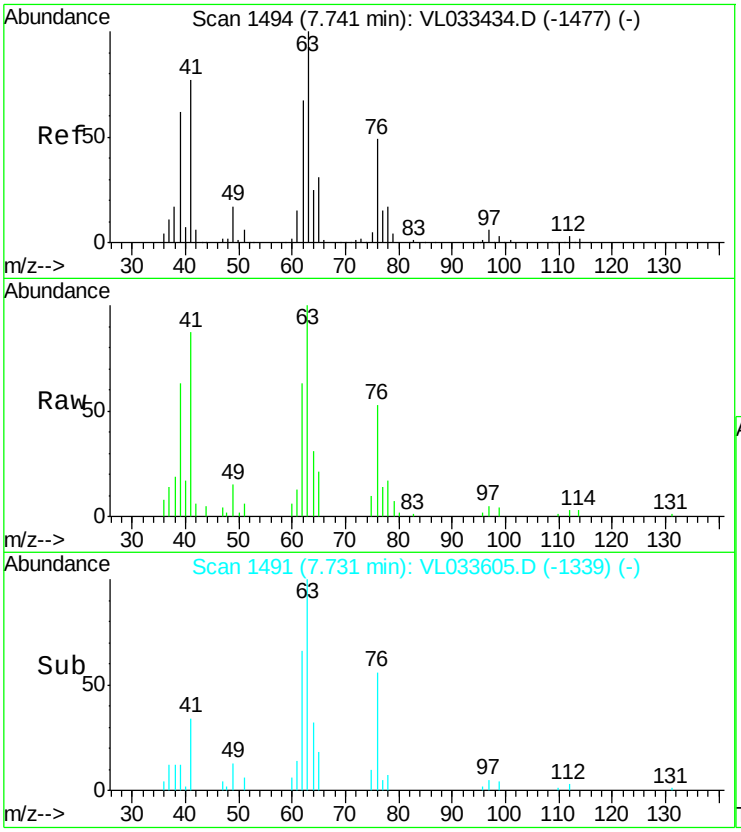


#38
Trichloroethene
Concen: 0.355 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:130 Resp: 20998

Ion	Ratio	Lower	Upper
130	100		
95	90.9	89.8	134.8
132	81.6	76.6	115.0
97	68.3	58.6	88.0



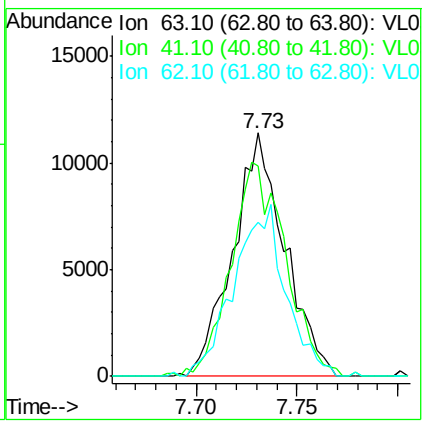


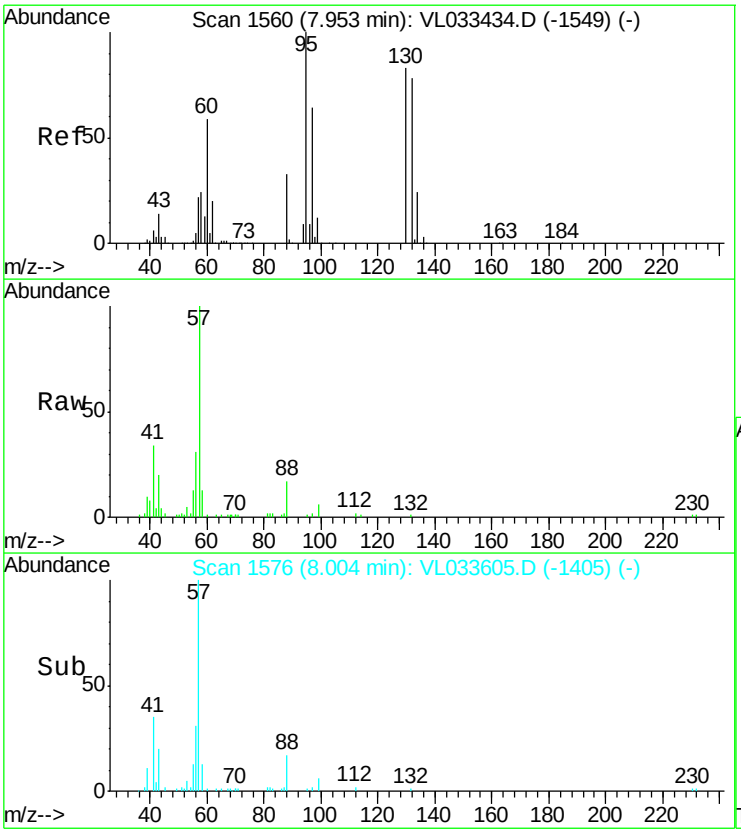
#39
1,2-Dichloropropane
Concen: 0.332 ppbv
RT: 7.73 min Scan# 1491
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 63 Resp: 20422

Ion	Ratio	Lower	Upper
63	100		
41	83.4	61.2	91.8
62	63.3	54.0	81.0

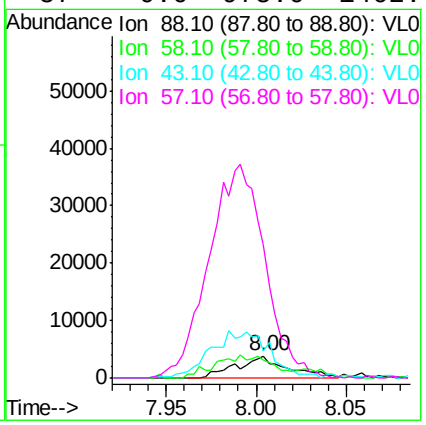


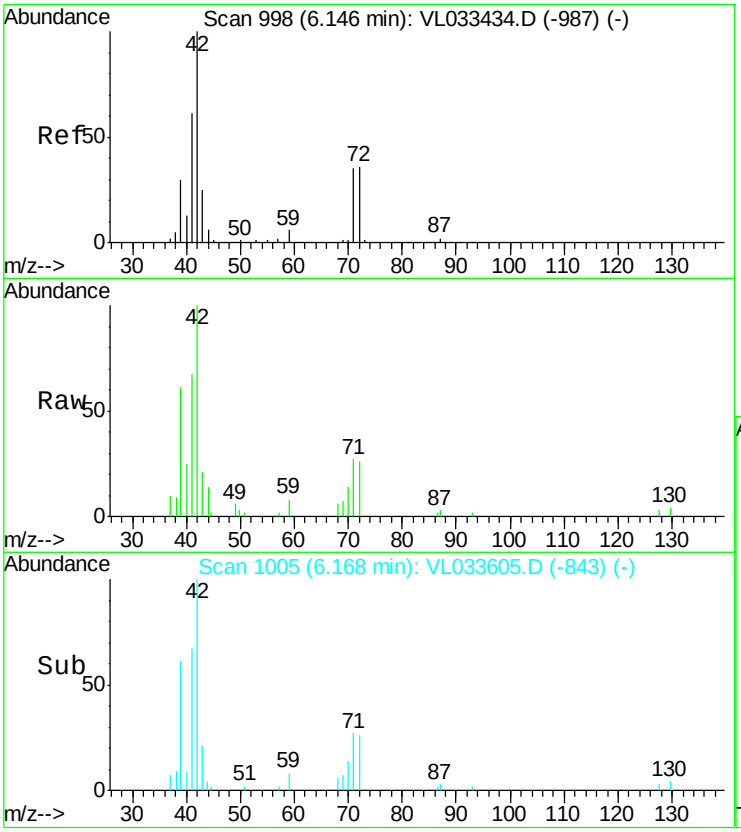


#40
1,4-Dioxane
Concen: 0.343 ppbv m
RT: 8.00 min Scan# 1576
Delta R.T. 0.05 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 88 Resp: 7532

Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.6	158.4#
43	0.0	216.7	325.1#
57	0.0	975.0	1462.4#



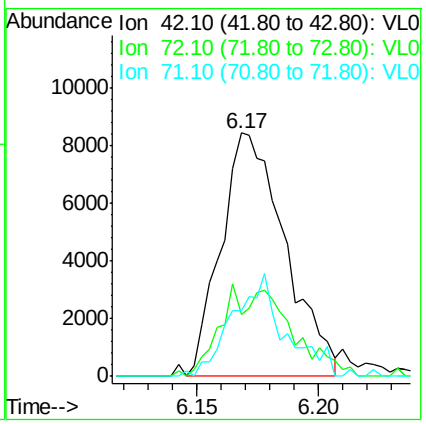


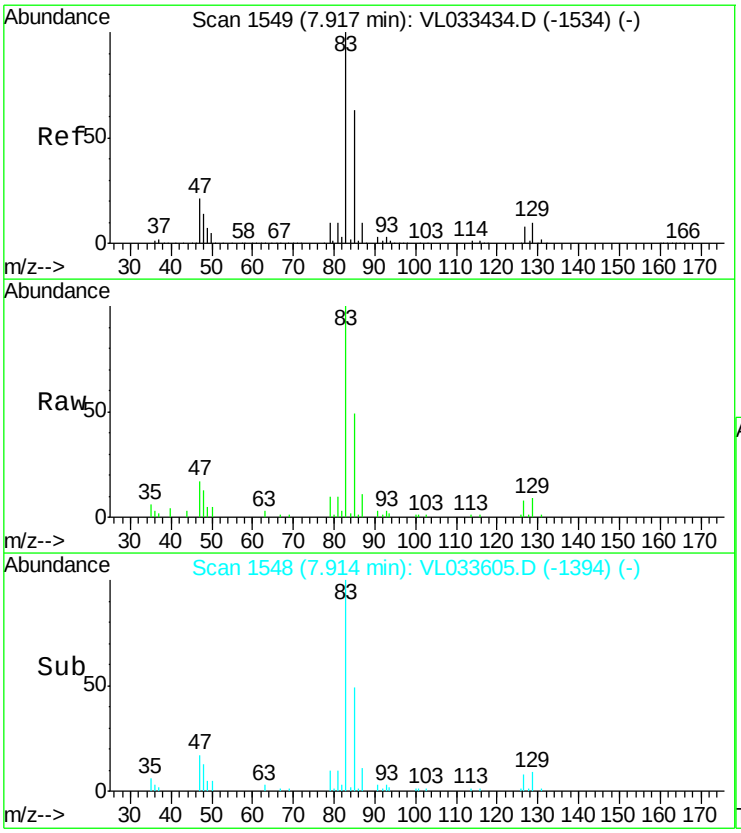
#41
Tetrahydrofuran
Concen: 0.250 ppbv m
RT: 6.17 min Scan# 1005
Delta R.T. 0.02 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 42 Resp: 15457

Ion	Ratio	Lower	Upper
42	100		
72	39.7	30.2	45.2
71	34.2	29.4	44.2

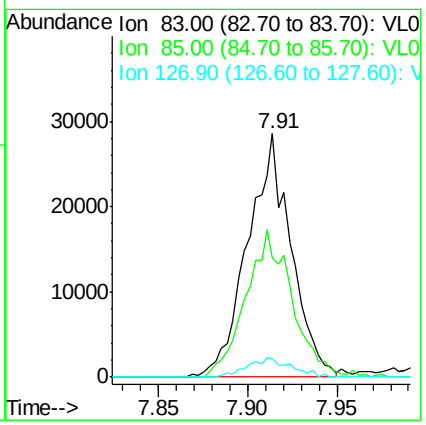


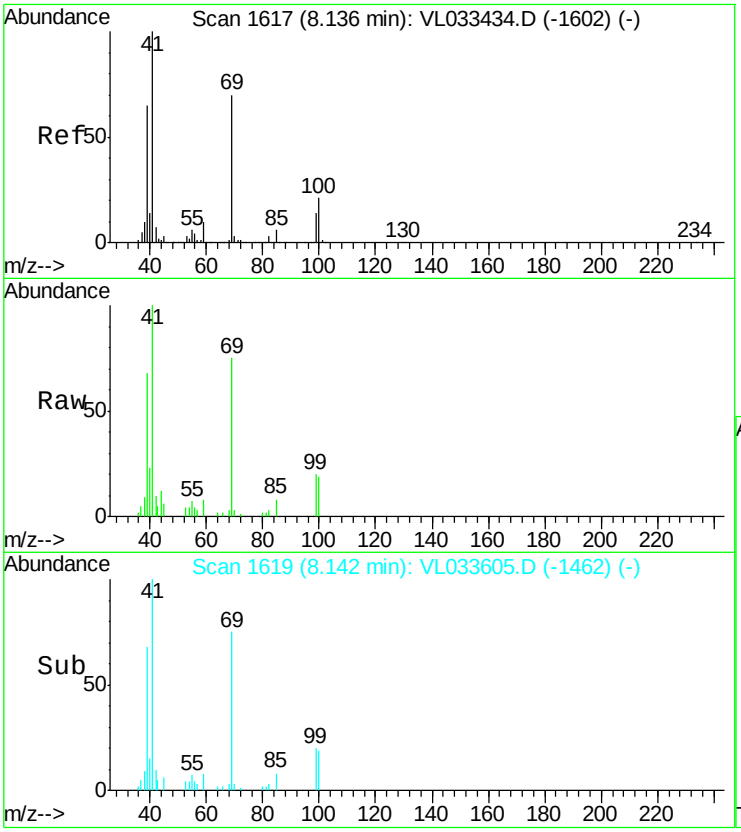


#42
Bromodichloromethane
Concen: 0.338 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 83 Resp: 48439

Ion	Ratio	Lower	Upper
83	100		
85	49.0	50.7	76.1#
127	8.5	6.6	9.8



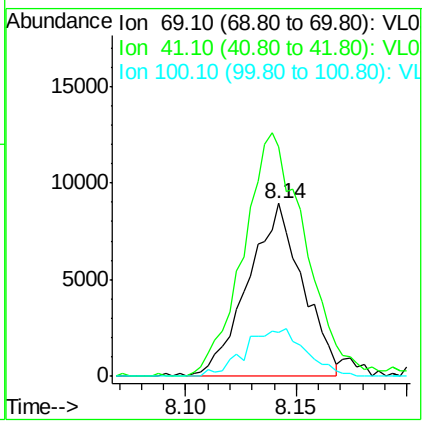


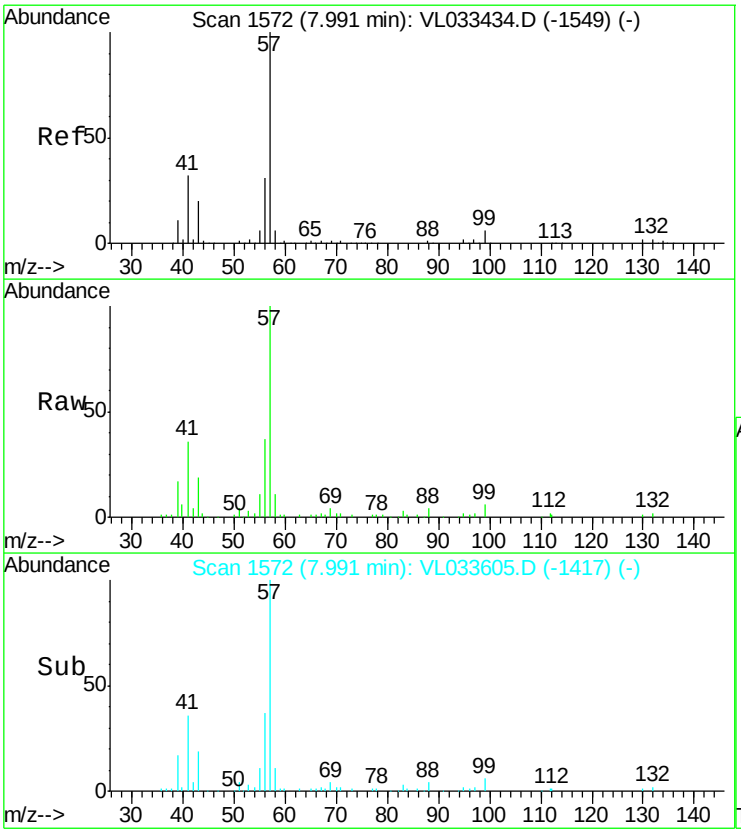
#43
Methyl Methacrylate
Concen: 0.241 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 69 Resp: 15396

Ion	Ratio	Lower	Upper
69	100		
41	160.9	116.6	174.8
100	30.5	24.4	36.6

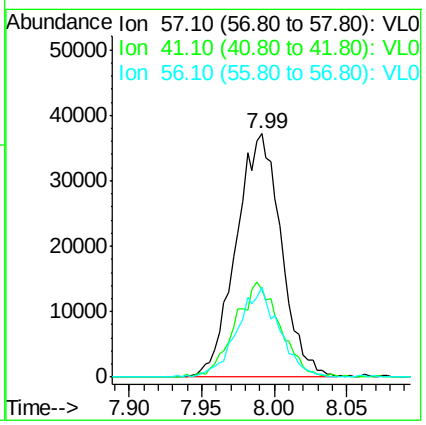


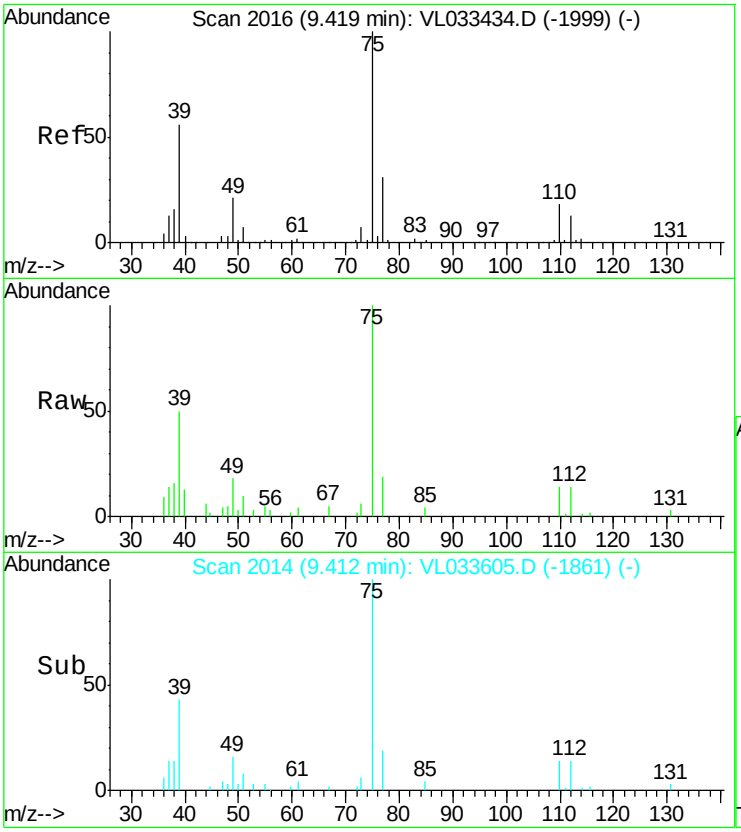


#44
2,2,4-Trimethylpentane
Concen: 0.293 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 57 Resp: 80533

Ion	Ratio	Lower	Upper
57	100		
41	38.8	26.0	39.0
56	34.1	24.6	37.0



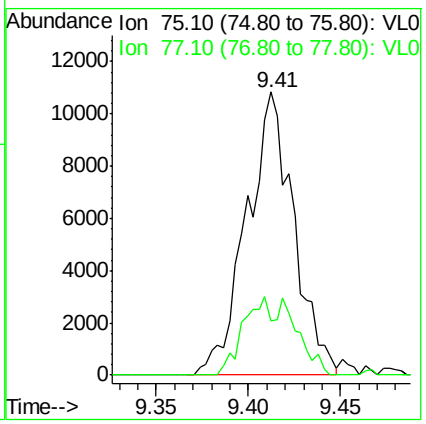


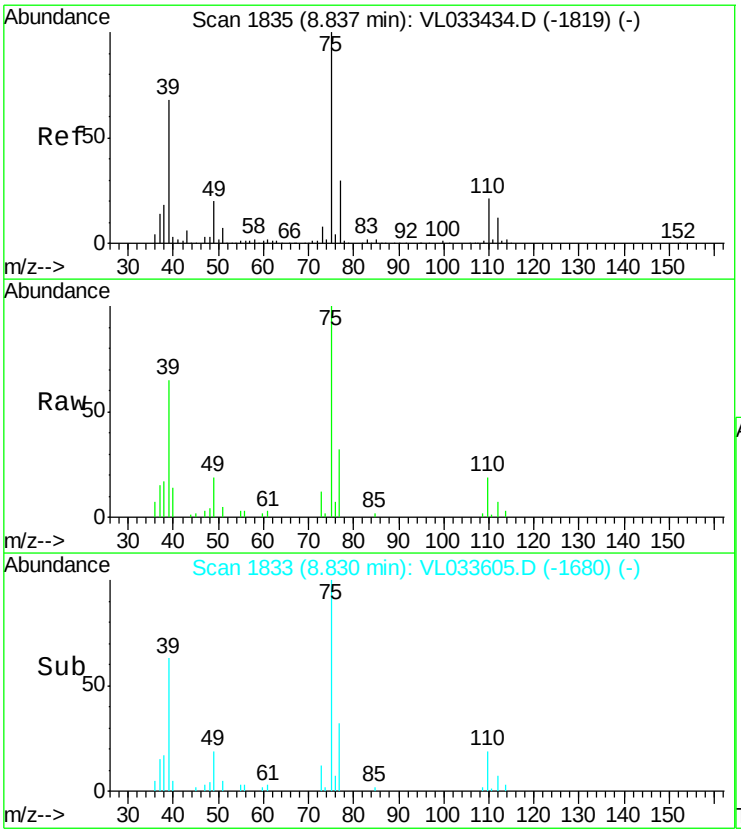
#45
t-1,3-Dichloropropene
Concen: 0.245 ppbv m
RT: 9.41 min Scan# 2014
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 75 Resp: 19228

Ion	Ratio	Lower	Upper
75	100		
77	19.3	24.5	36.7#

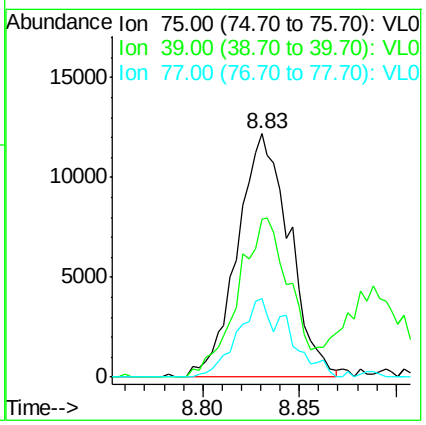


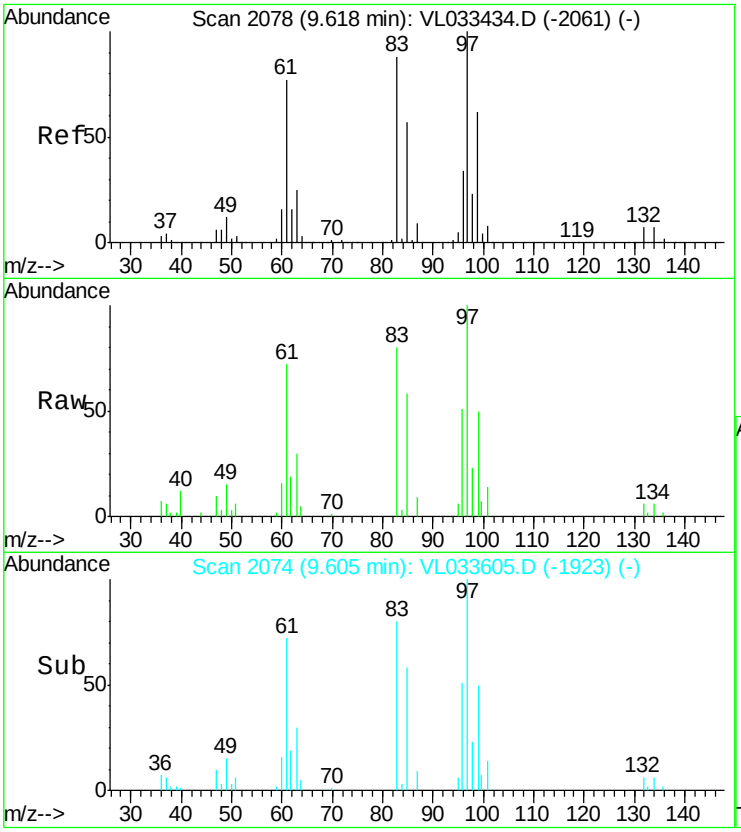


#46
cis-1,3-Dichloropropene
Concen: 0.249 ppbv
RT: 8.83 min Scan# 1833
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 75 Resp: 22779

Ion	Ratio	Lower	Upper
75	100		
39	64.7	54.1	81.1
77	32.1	23.9	35.9



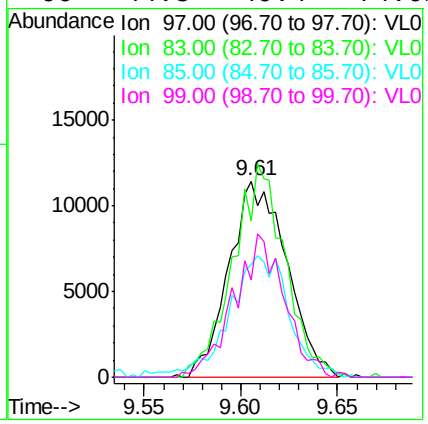


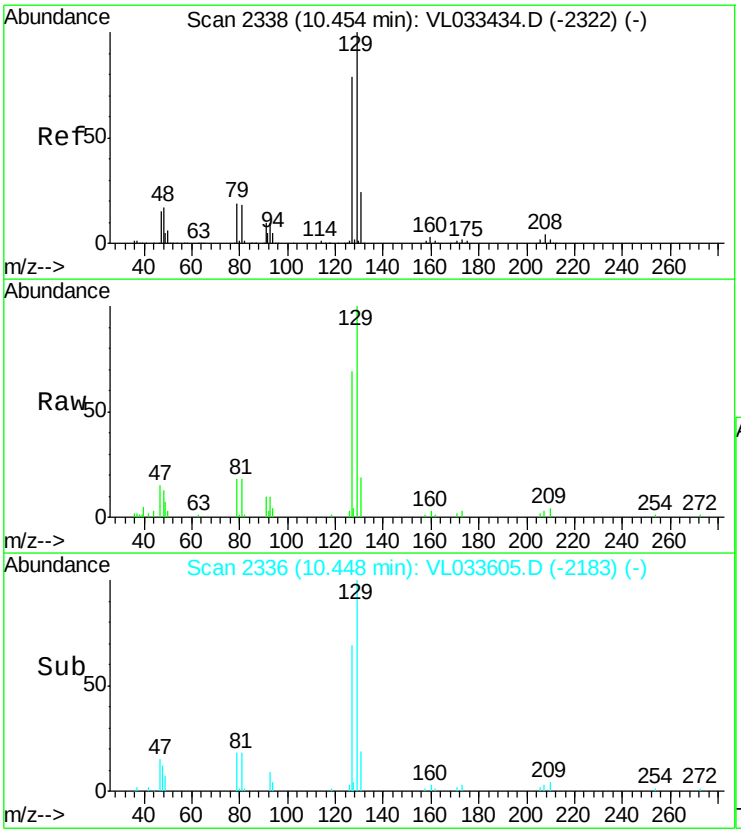
#47
1,1,2-Trichloroethane
Concen: 0.338 ppbv
RT: 9.61 min Scan# 2074
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 97 Resp: 23665

Ion	Ratio	Lower	Upper
97	100		
83	63.3	70.5	105.7#
85	45.8	45.6	68.4
99	44.3	49.4	74.0#

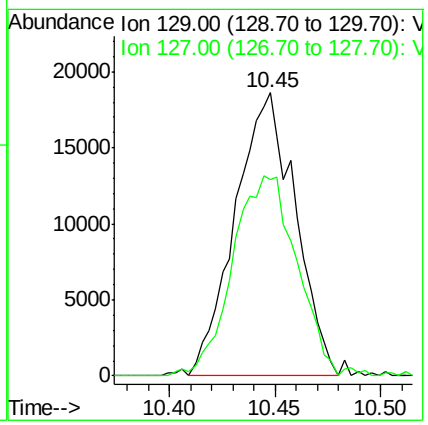


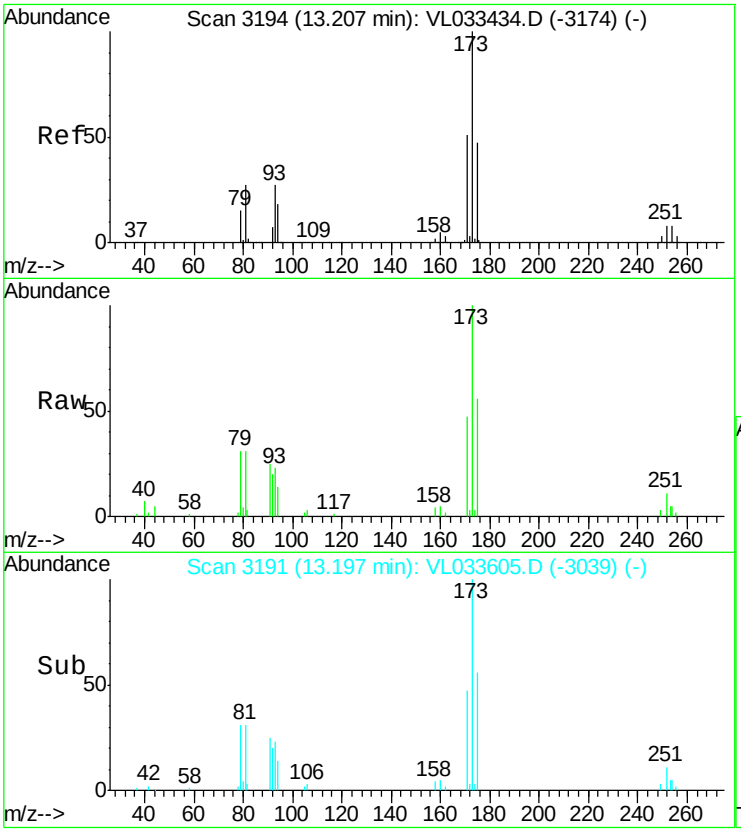


#48
Dibromochloromethane
Concen: 0.313 ppbv
RT: 10.45 min Scan# 2336
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:129 Resp: 36894

Ion	Ratio	Lower	Upper
129	100		
127	76.5	39.1	117.2



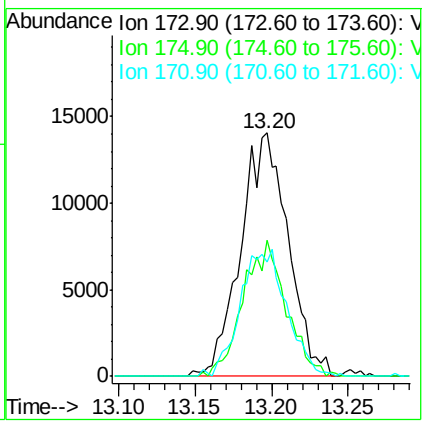


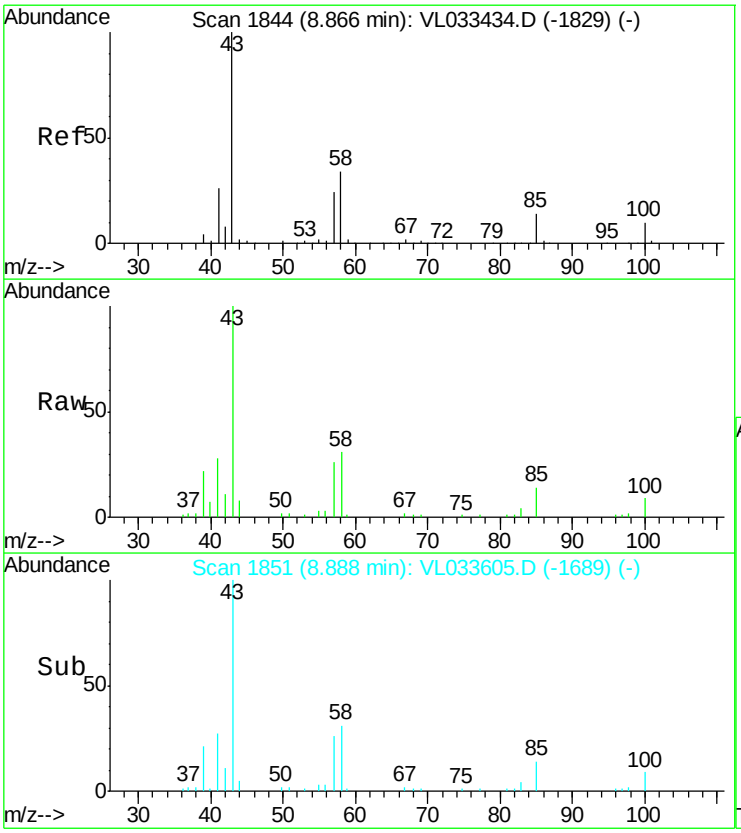
#49
Bromoform
Concen: 0.270 ppbv m
RT: 13.20 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:173 Resp: 30435

Ion	Ratio	Lower	Upper
173	100		
175	50.4	39.3	58.9
171	51.1	41.2	61.8

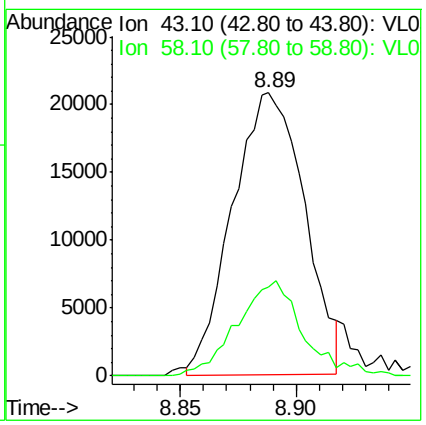


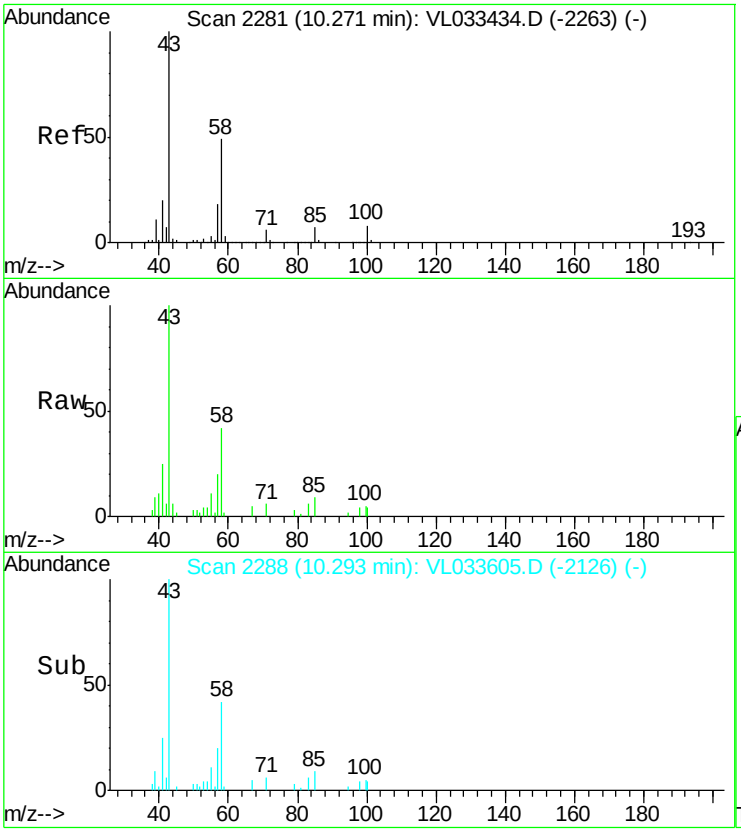


#50
4-Methyl-2-Pentanone
Concen: 0.273 ppbv
RT: 8.89 min Scan# 1851
Delta R.T. 0.02 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 43 Resp: 45040

Ion	Ratio	Lower	Upper
43	100		
58	30.9	28.0	42.0



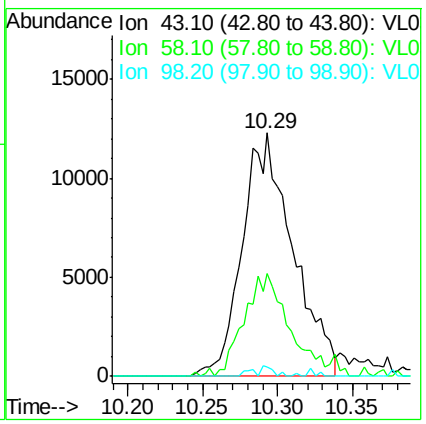


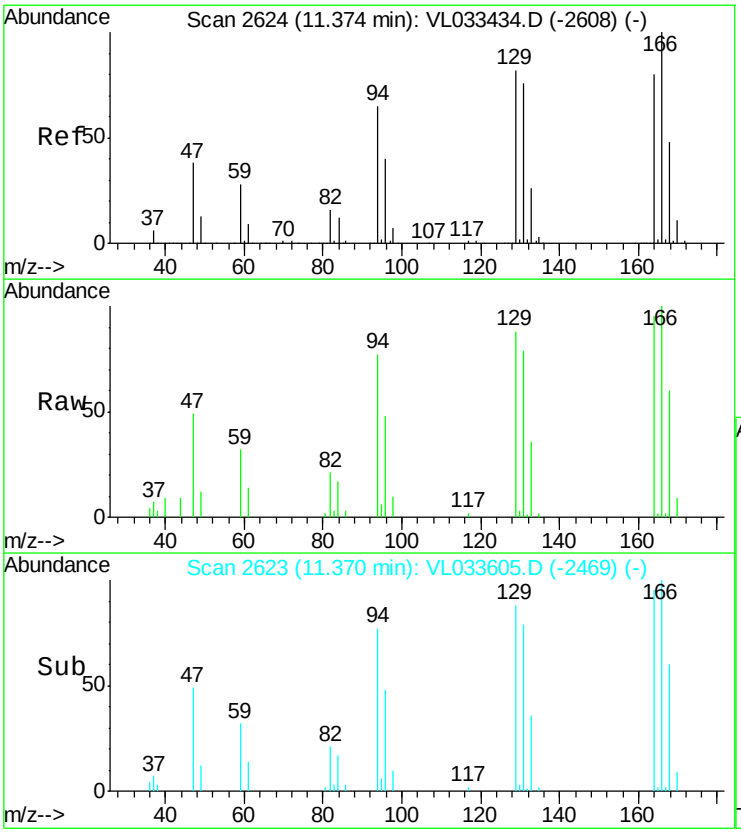
#51
2-Hexanone
Concen: 0.234 ppbv m
RT: 10.29 min Scan# 2288
Delta R.T. 0.02 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 43 Resp: 28803

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.2#
98	0.0	0.2	0.2#

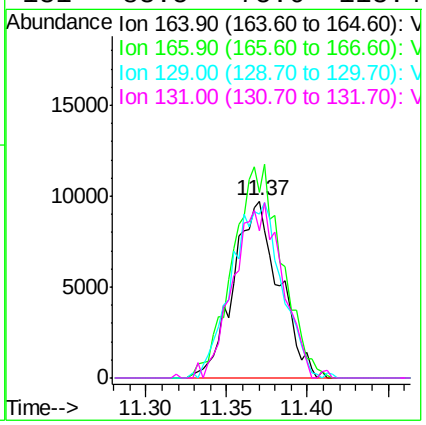


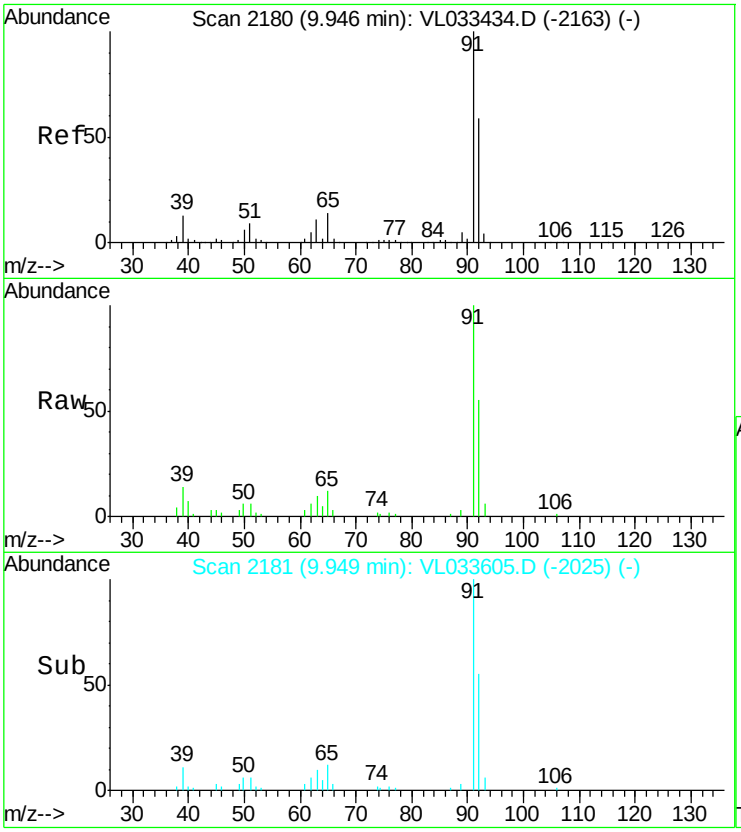


#52
Tetrachloroethene
Concen: 0.325 ppbv m
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:164 Resp: 19279

Ion	Ratio	Lower	Upper
164	100		
166	105.2	99.5	149.3
129	92.5	81.4	122.2
131	83.5	75.6	113.4



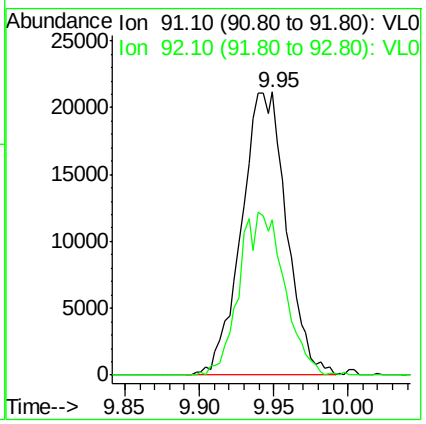


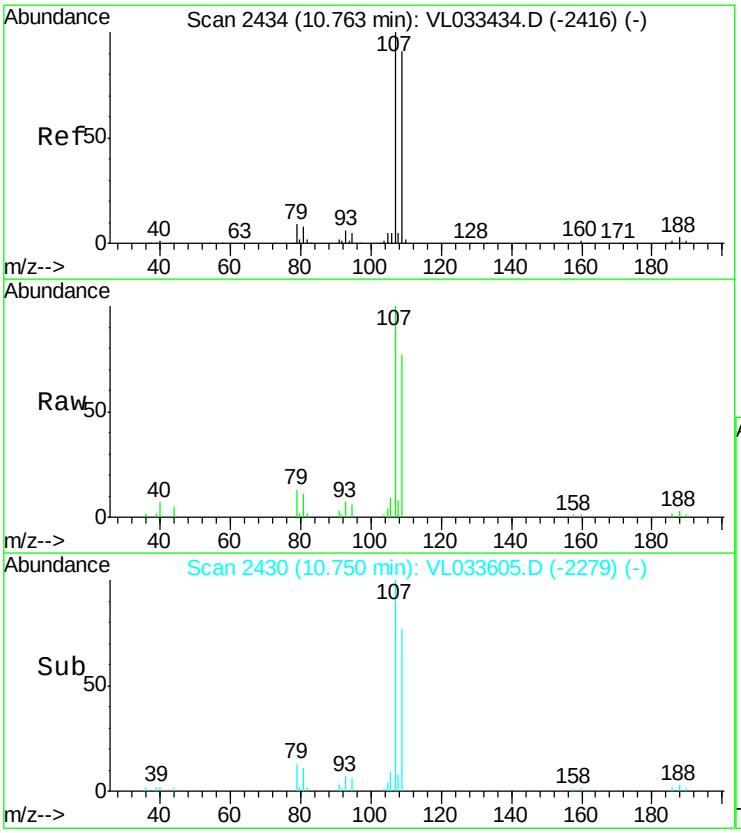
#53
Toluene
Concen: 0.243 ppbv m
RT: 9.95 min Scan# 2181
Delta R.T. 0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 91 Resp: 44450

Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.4	71.0

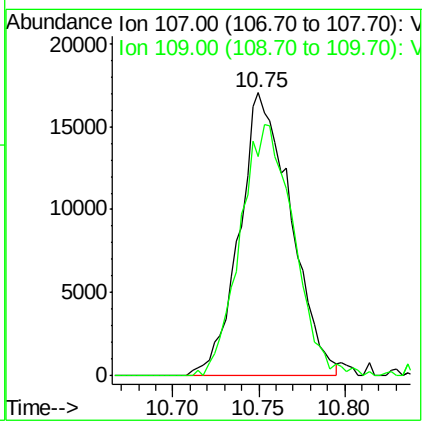


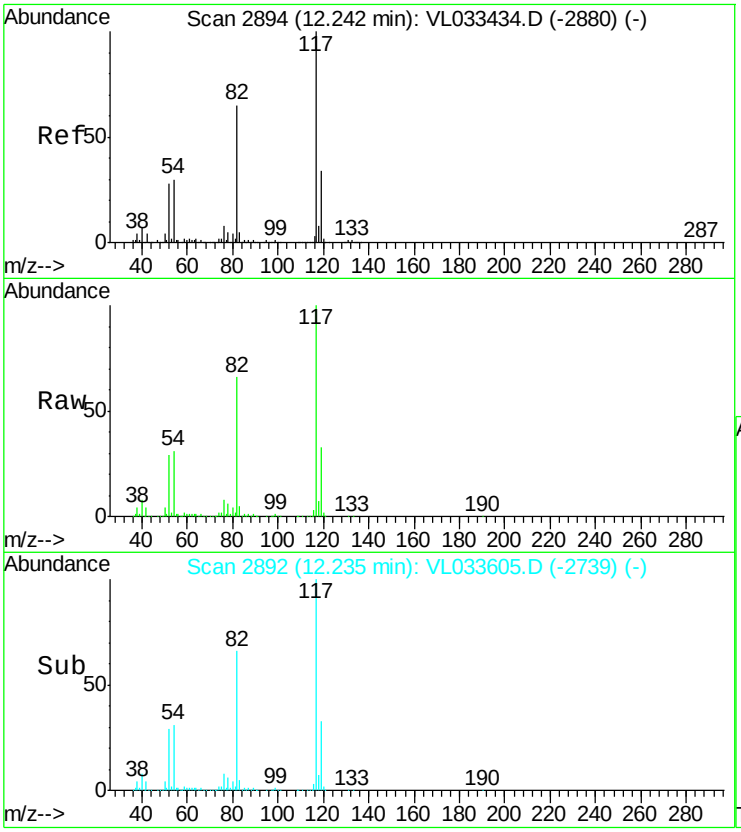


#54
1,2-Dibromoethane
Concen: 0.324 ppbv
RT: 10.75 min Scan# 2430
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:107 Resp: 35437

Ion	Ratio	Lower	Upper
107	100		
109	71.9	72.7	109.1#



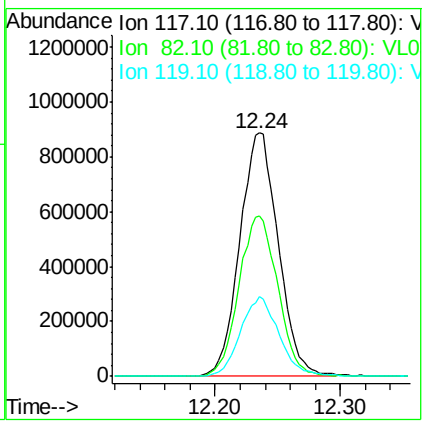


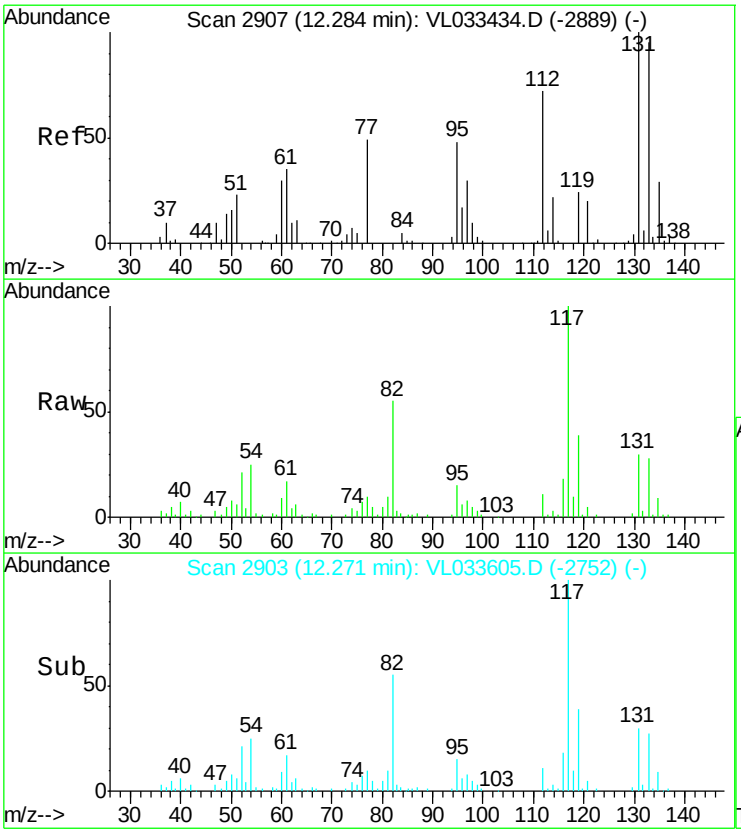
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:117 Resp: 1894626

Ion	Ratio	Lower	Upper
117	100		
82	66.9	51.5	77.3
119	32.9	25.5	38.3

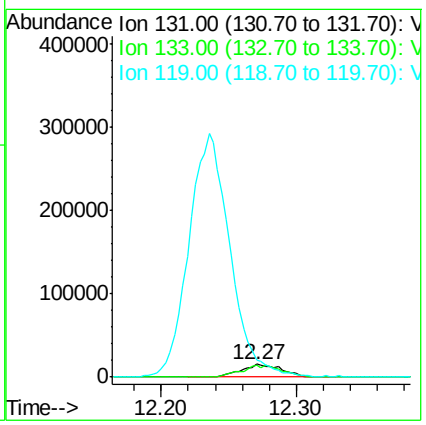


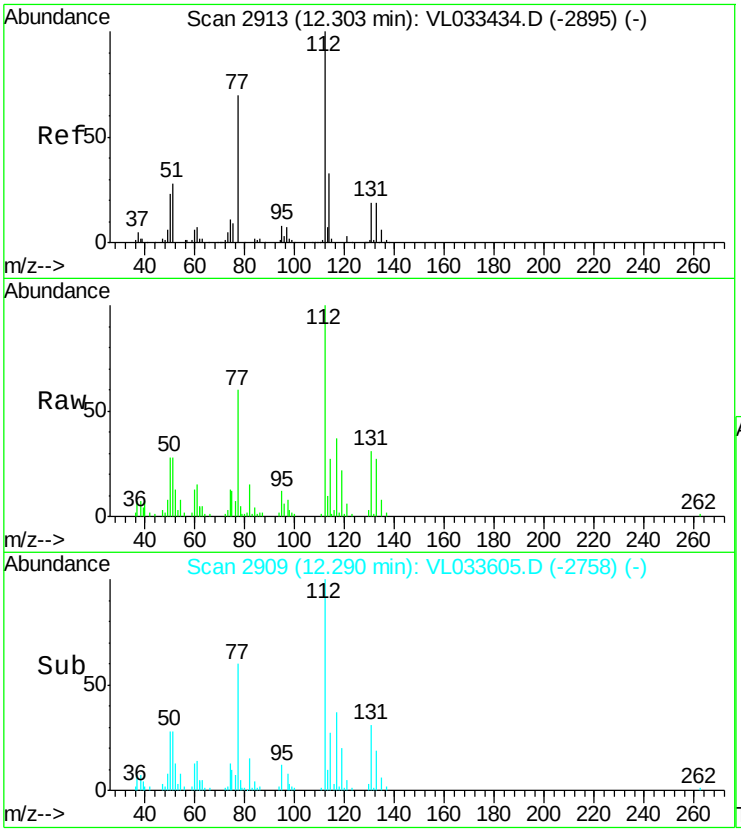


#56
1,1,1,2-Tetrachloroethane
Concen: 0.374 ppbv m
RT: 12.27 min Scan# 2903
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:131 Resp: 32475

Ion	Ratio	Lower	Upper
131	100		
133	93.4	76.2	114.4
119	0.0	45.0	67.6#



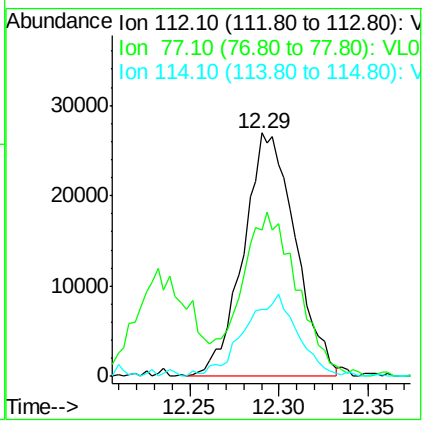


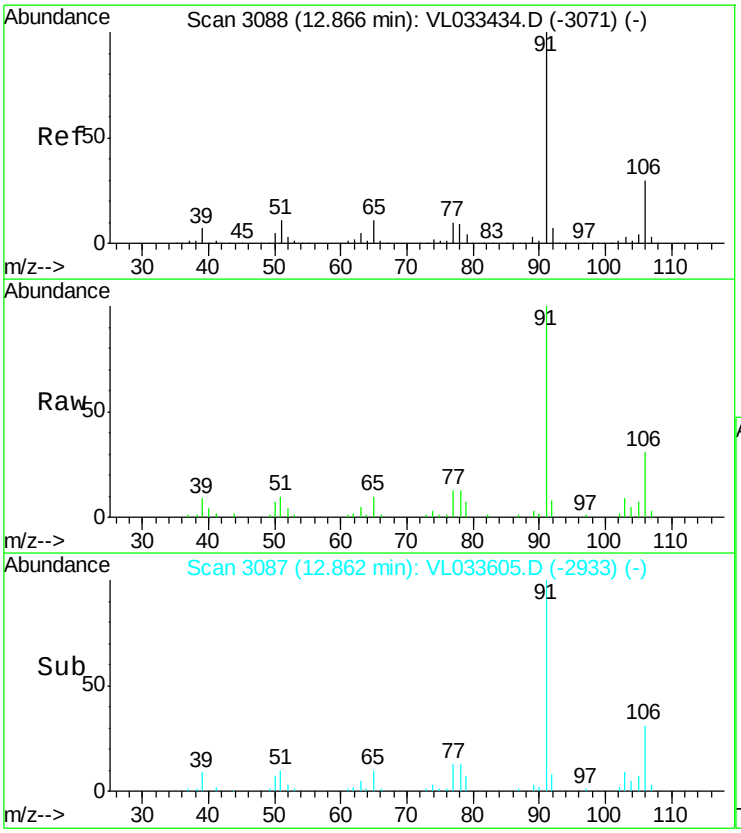
#57
Chlorobenzene
Concen: 0.374 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:112 Resp: 55007

Ion	Ratio	Lower	Upper
112	100		
77	55.5	57.3	85.9#
114	26.1	29.8	36.4#

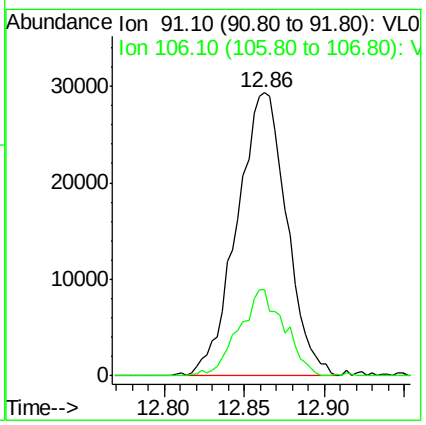


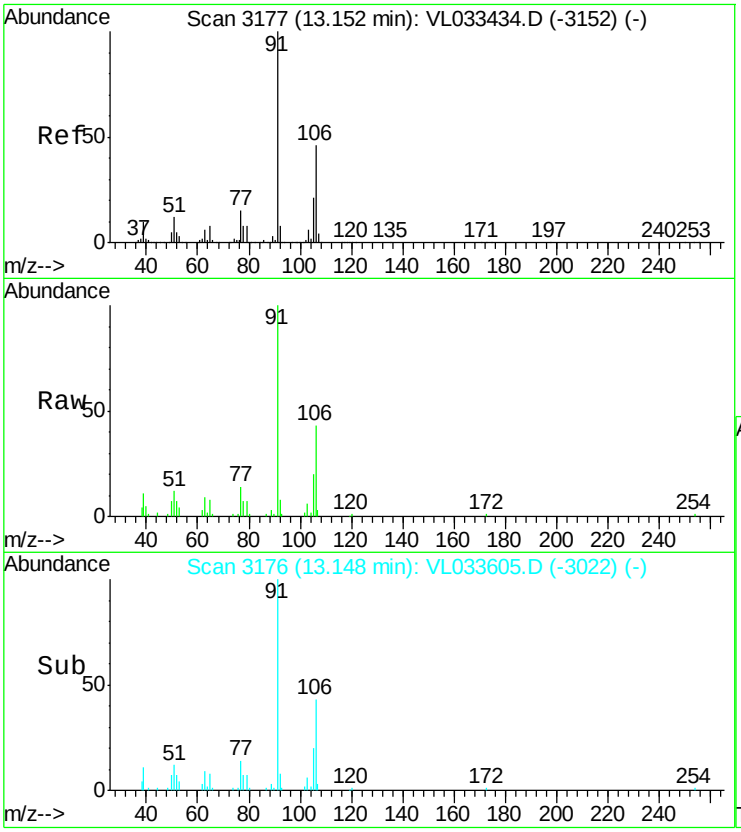


#58
Ethyl Benzene
Concen: 0.248 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 91 Resp: 62669

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6



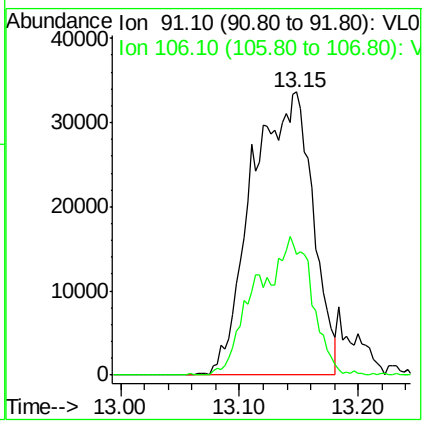


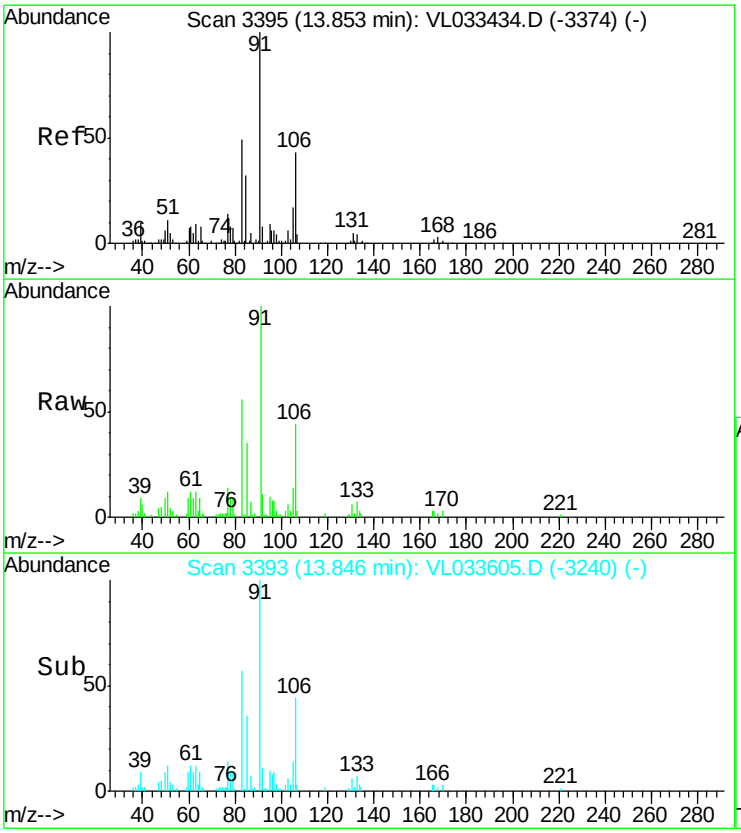
#59
m/p-Xylene
Concen: 0.533 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 91 Resp: 120384

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

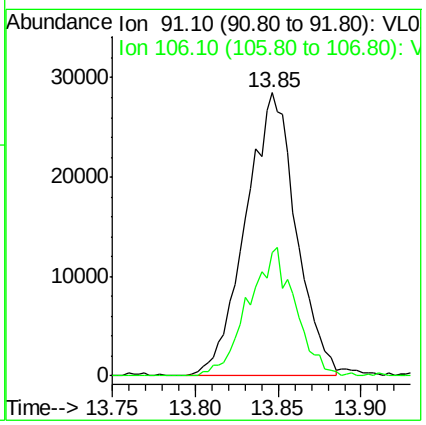


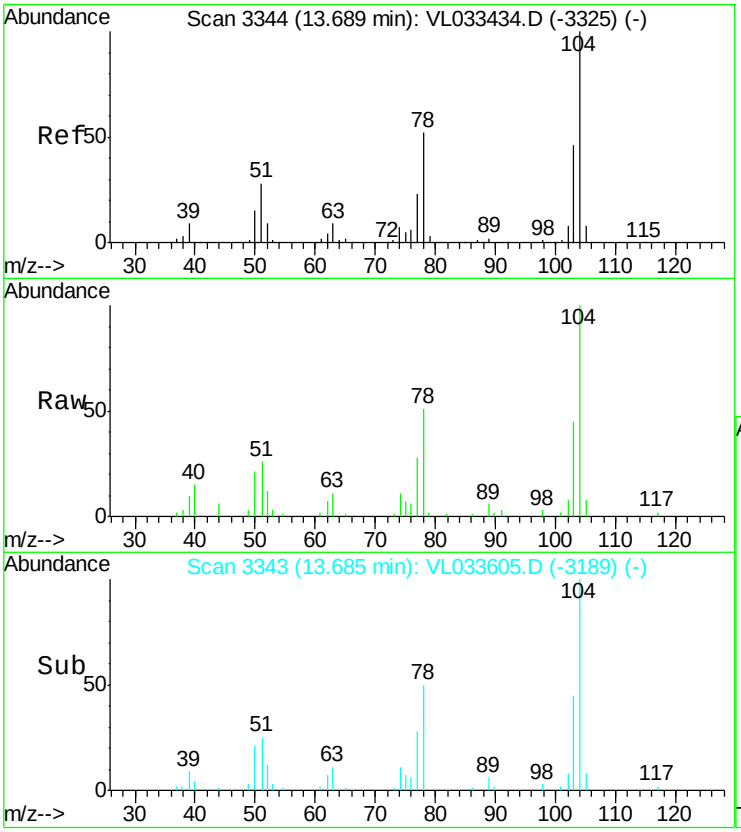


#60
o-Xylene
Concen: 0.276 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 91 Resp: 60401

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.4	64.3



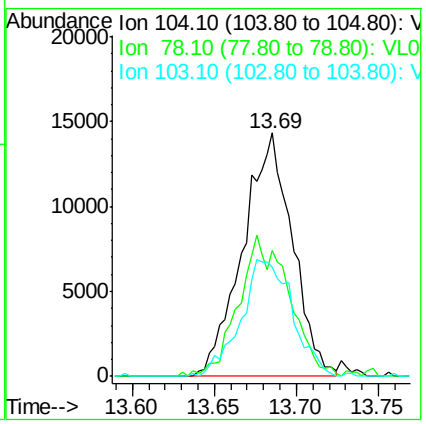


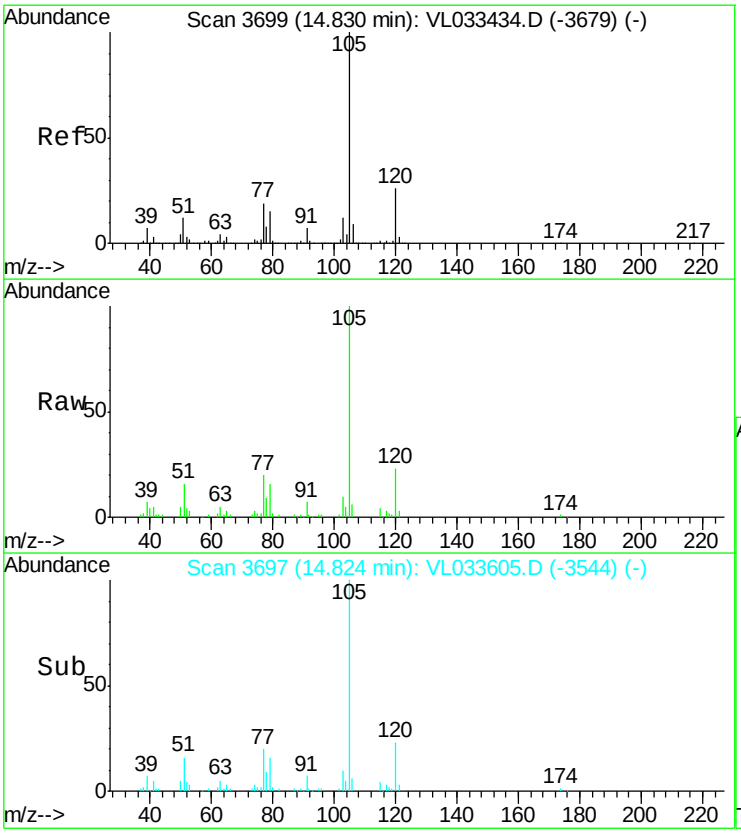
#61
Stvrene
Concen: 0.201 ppbv m
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:104 Resp: 30164

Ion	Ratio	Lower	Upper
104	100		
78	0.0	43.2	64.8#
103	0.0	37.8	56.8#

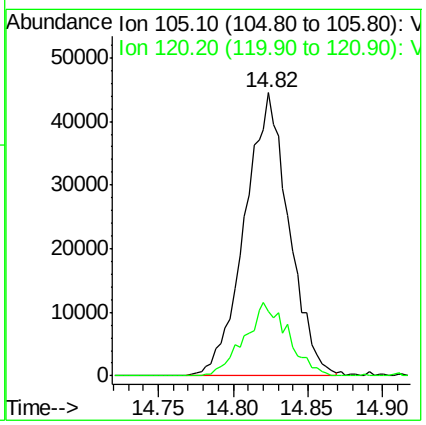


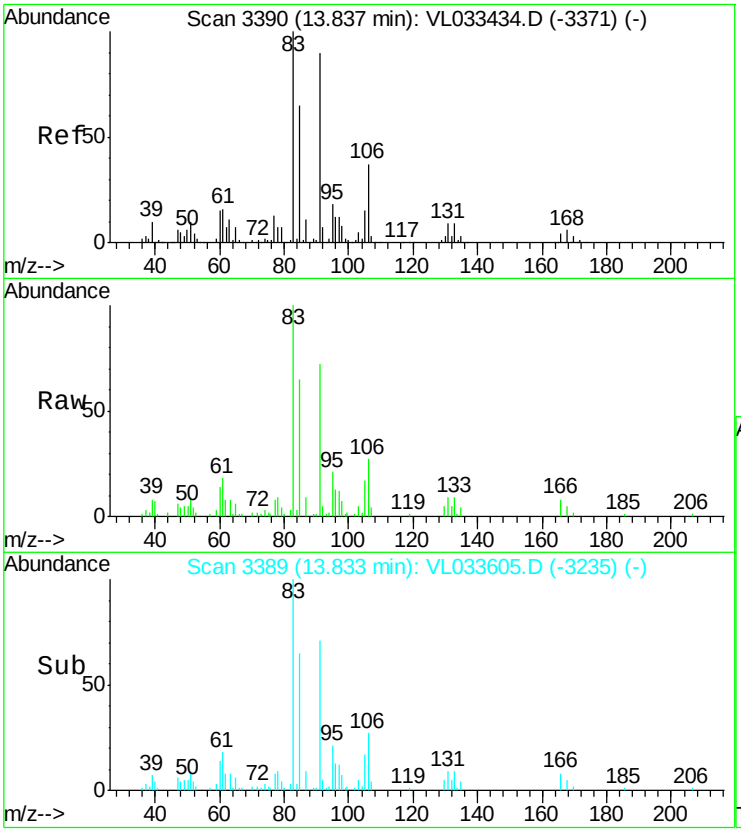


#62
Isopropylbenzene
Concen: 0.296 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:105 Resp: 91464

Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.2	30.2



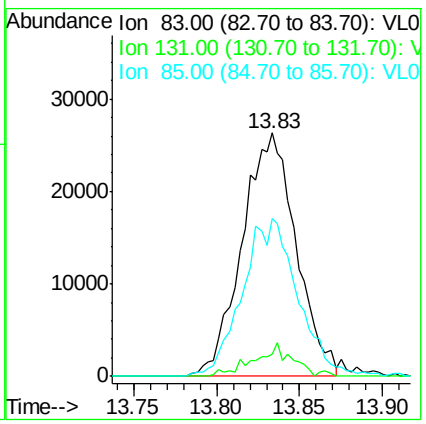


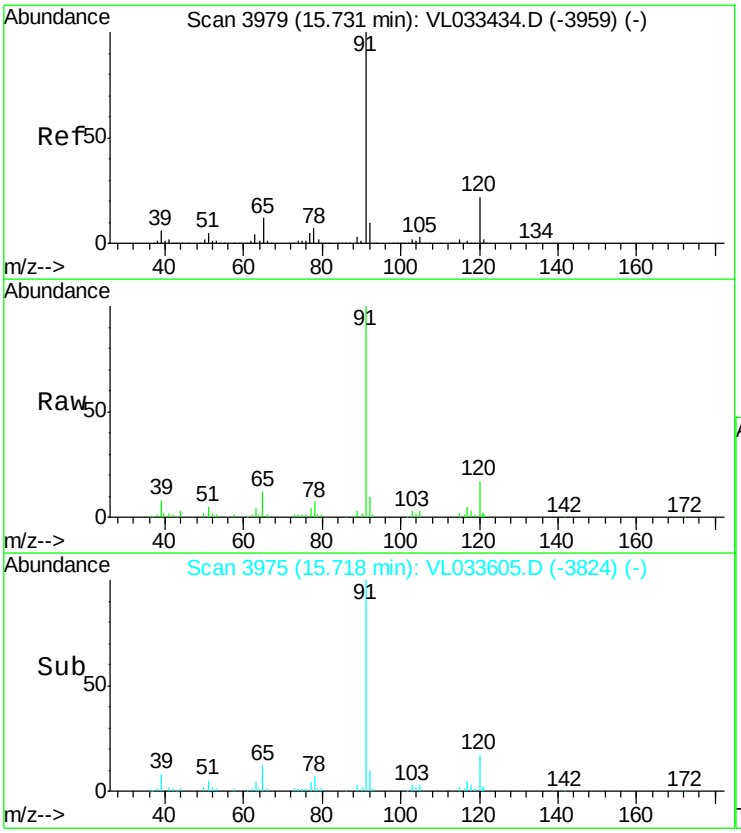
#63
1,1,2,2-Tetrachloroethane
Concen: 0.370 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 83 Resp: 59494

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.7	14.0
85	66.9	32.7	98.1

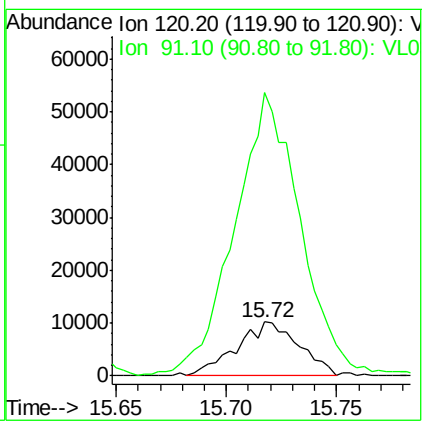


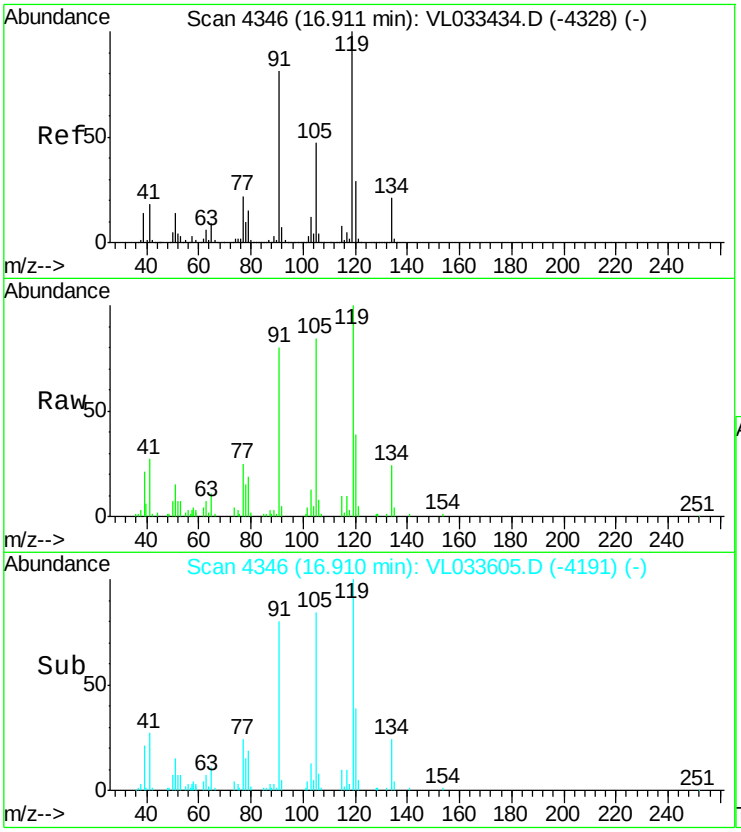


#64
n-propylbenzene
Concen: 0.256 ppbv m
RT: 15.72 min Scan# 3975
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:120 Resp: 20123

Ion	Ratio	Lower	Upper
120	100		
91	557.0	387.4	581.2



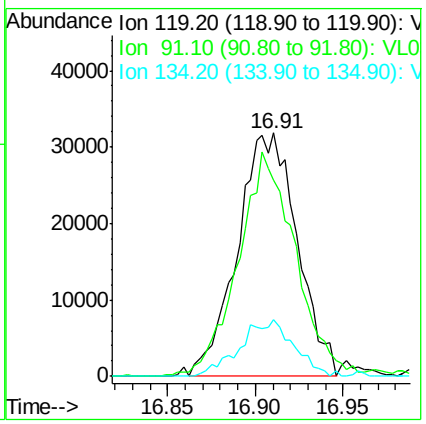


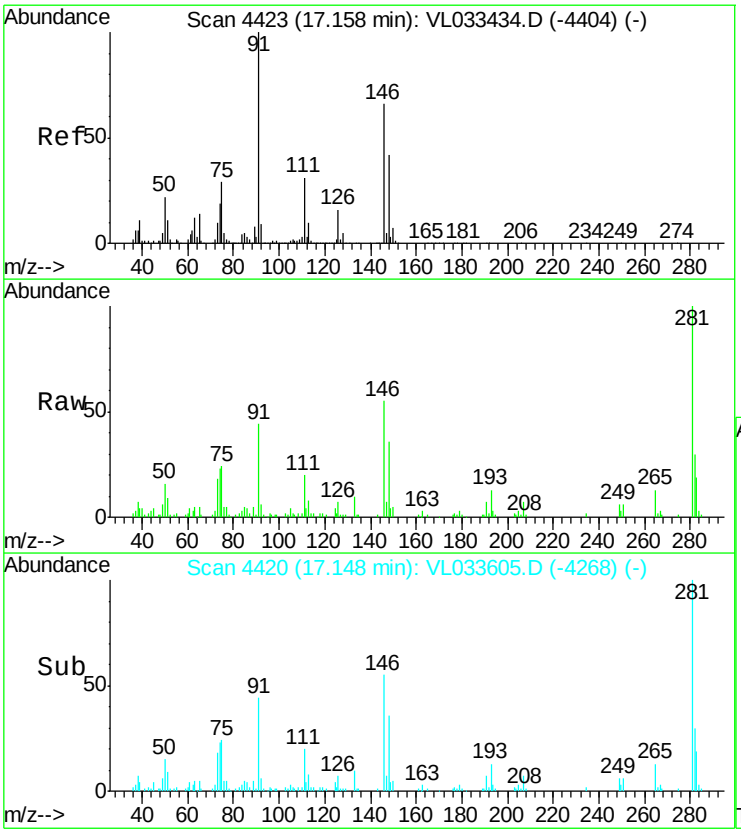
#65
tert-Butylbenzene
Concen: 0.276 ppbv m
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:119 Resp: 75250

Ion	Ratio	Lower	Upper
119	100		
91	90.2	66.4	99.6
134	0.0	15.5	23.3#

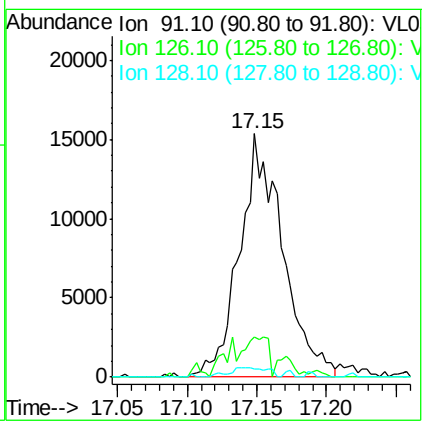


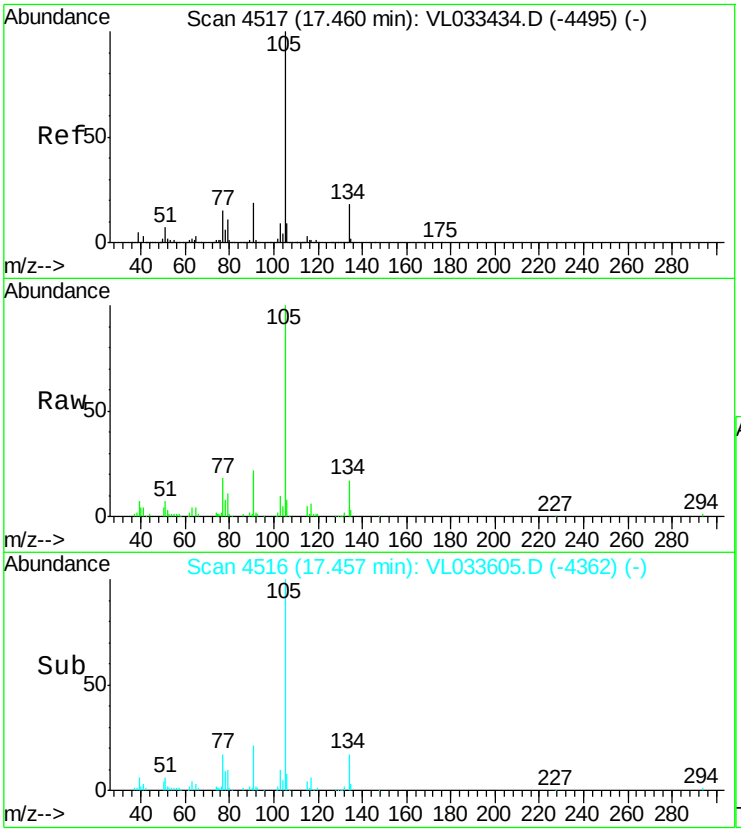


#66
Benzyl Chloride
Concen: 0.260 ppbv m
RT: 17.15 min Scan# 4420
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 91 Resp: 33015

Ion	Ratio	Lower	Upper
91	100		
126	19.2	13.0	19.6
128	4.4	4.2	6.2



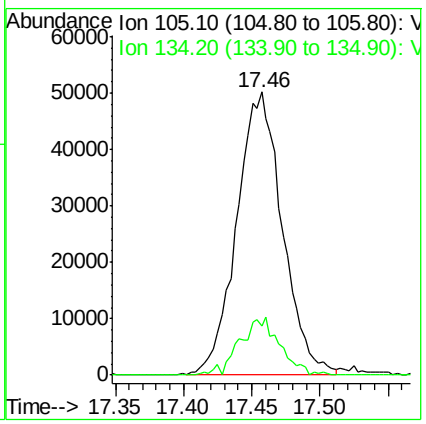


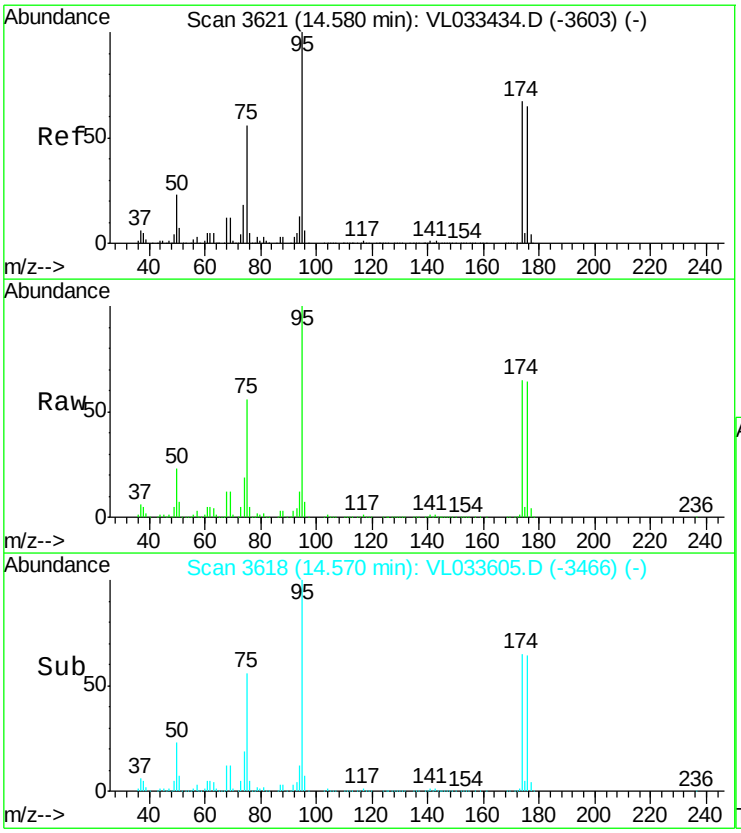
#67
sec-Butylbenzene
Concen: 0.301 ppbv
RT: 17.46 min Scan# 4516
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:105 Resp: 116725

Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.6	21.8

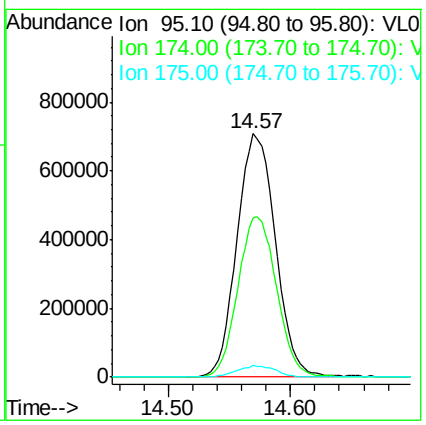


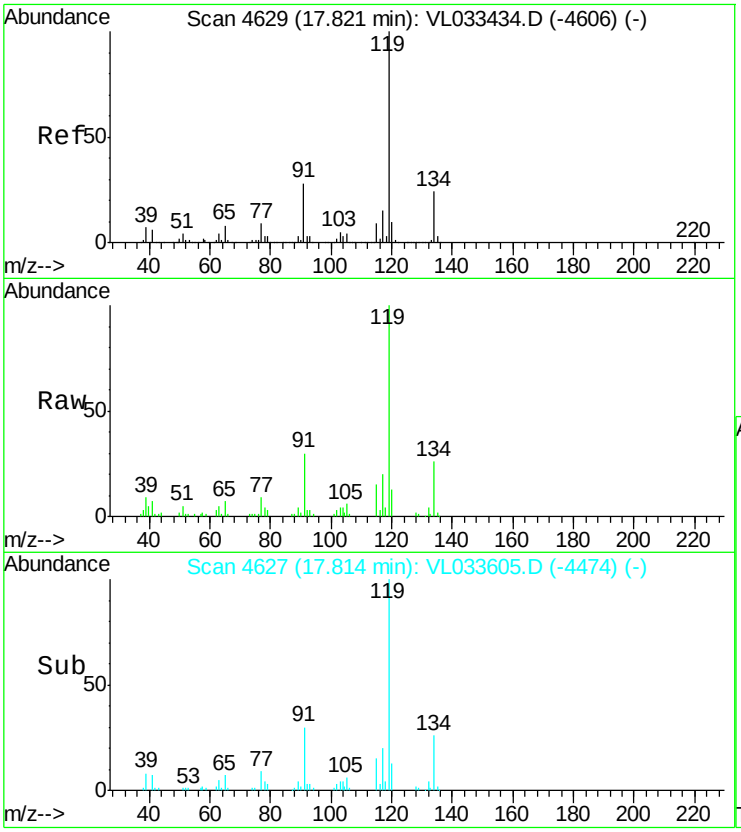


#68
1-Bromo-4-Fluorobenzene
Concen: 10.387 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 95 Resp: 1542860

Ion	Ratio	Lower	Upper
95	100		
174	66.6	52.9	79.3
175	4.8	3.8	5.6



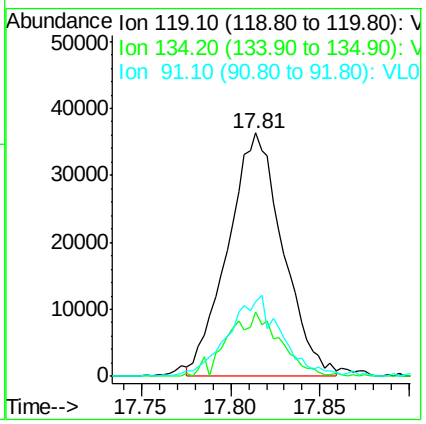


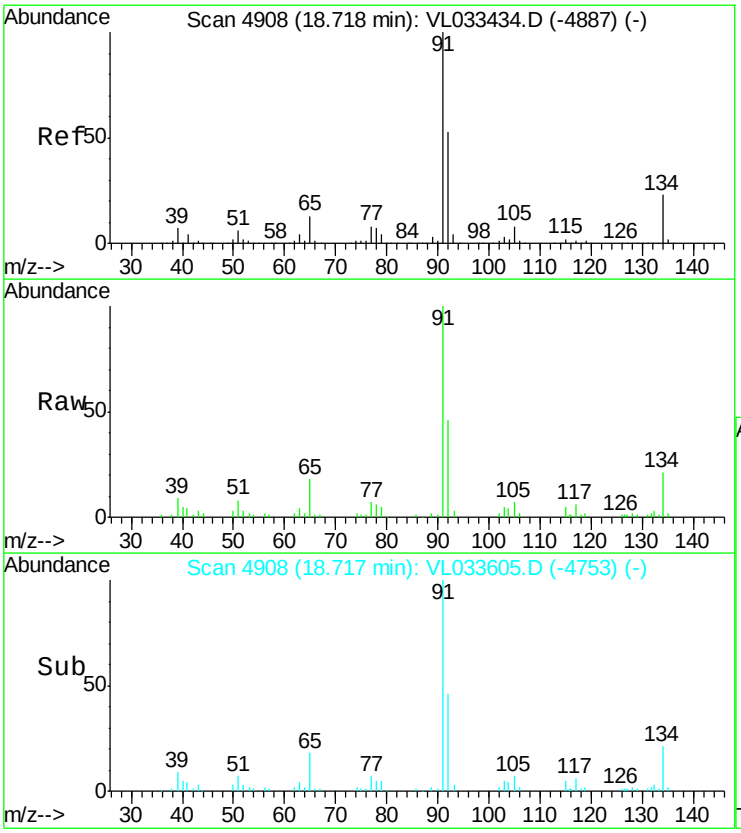
#69
p-Isopropyltoluene
Concen: 0.248 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:119 Resp: 78176

Ion	Ratio	Lower	Upper
119	100		
134	25.1	19.9	29.9
91	32.4	23.4	35.0

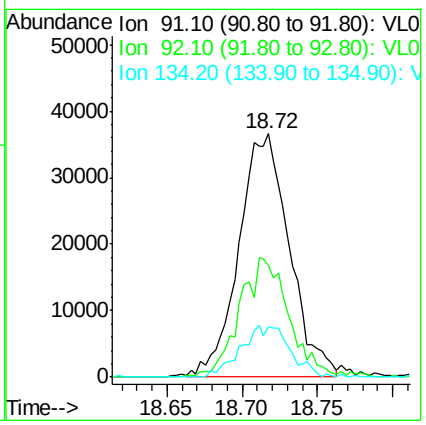


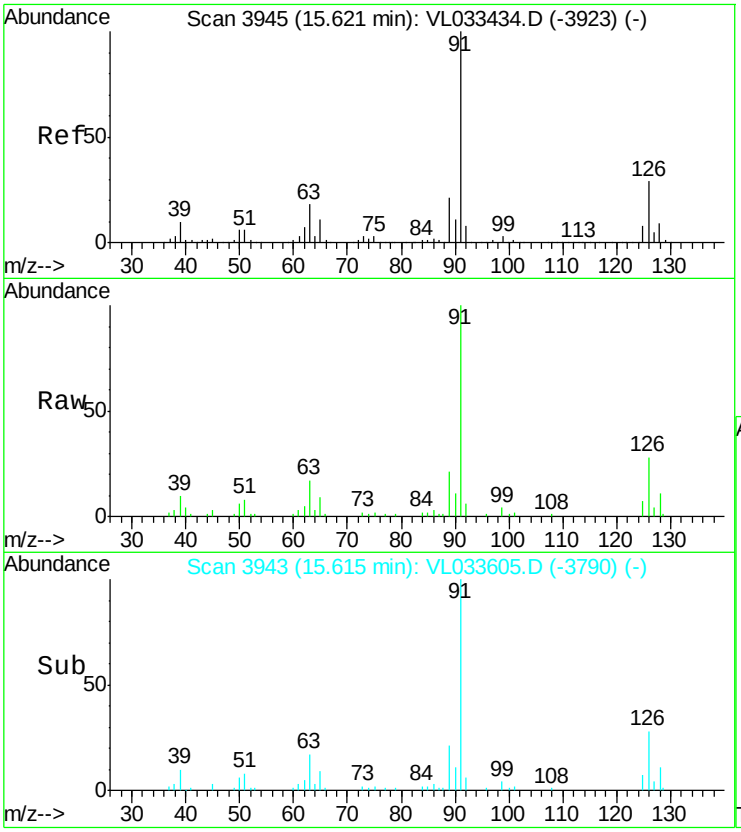


#70
n-Butylbenzene
Concen: 0.255 ppbv m
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion: 91 Resp: 85415

Ion	Ratio	Lower	Upper
91	100		
92	48.4	42.6	64.0
134	20.8	17.5	26.3



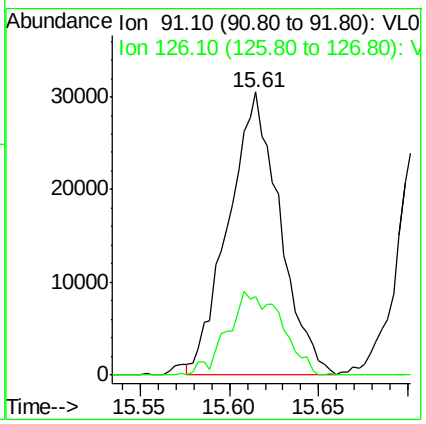


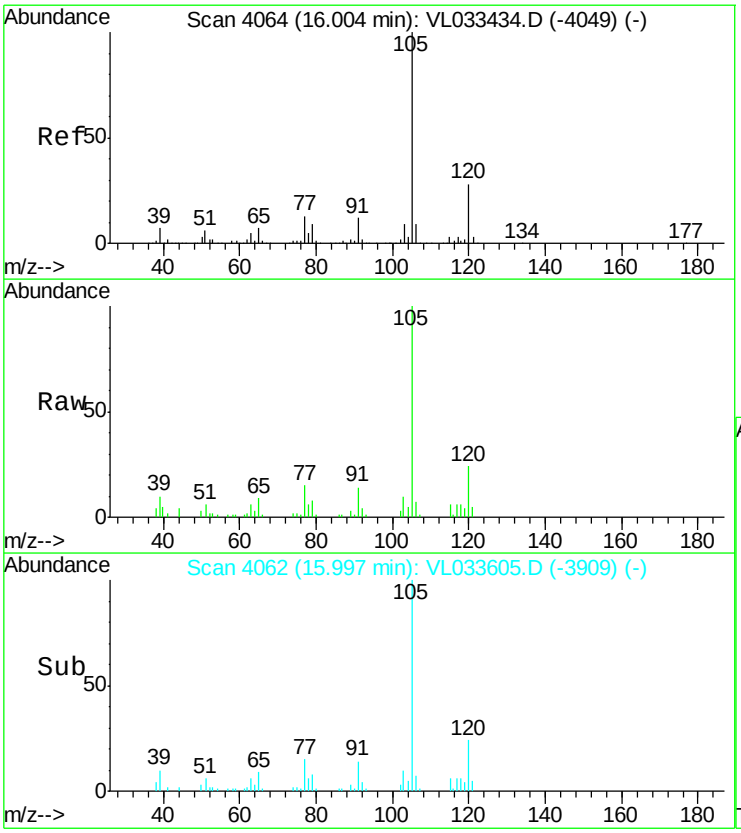
#71
2-Chlorotoluene
Concen: 0.262 ppbv
RT: 15.61 min Scan# 3943
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 91 Resp: 61633

Ion	Ratio	Lower	Upper
91	100		
126	30.9	11.7	46.9

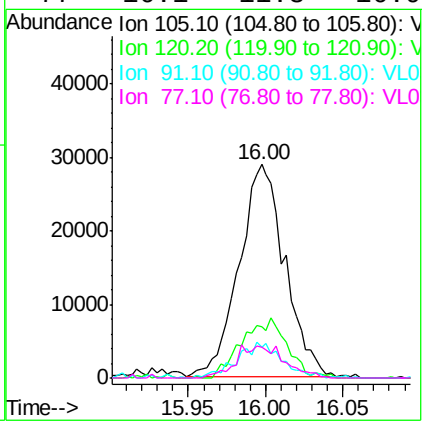


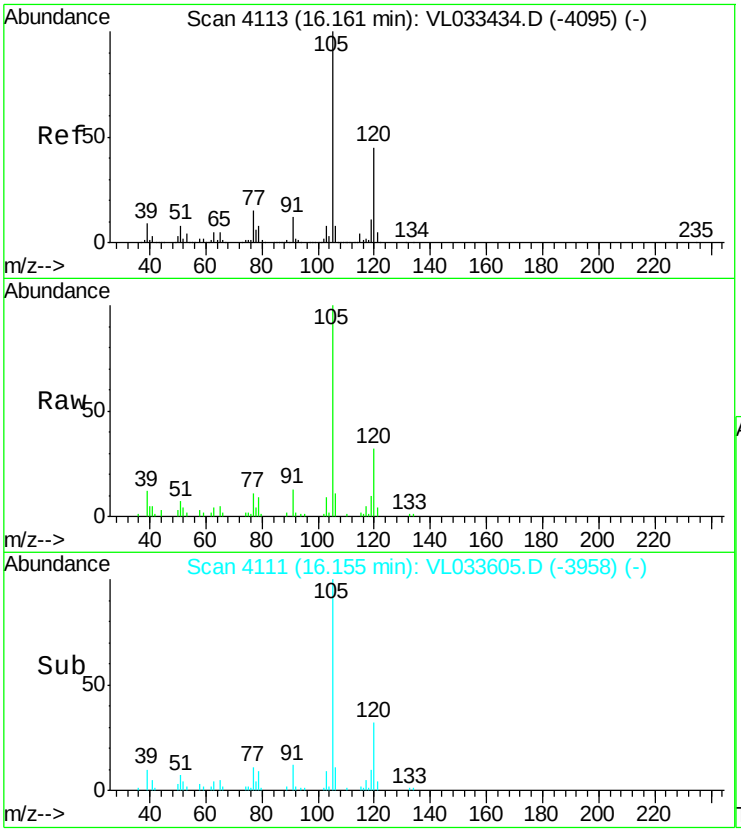


#72
4-Ethyltoluene
Concen: 0.241 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:105 Resp: 59165

Ion	Ratio	Lower	Upper
105	100		
120	28.2	23.2	34.8
91	17.6	10.4	15.6#
77	16.1	11.3	16.9



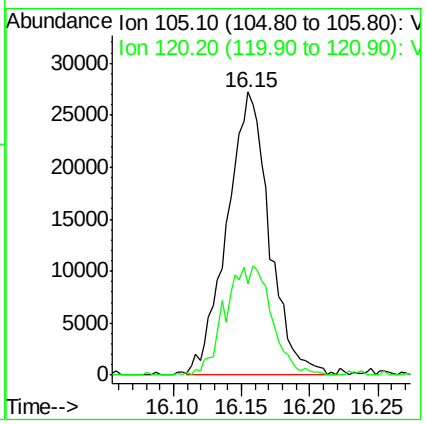


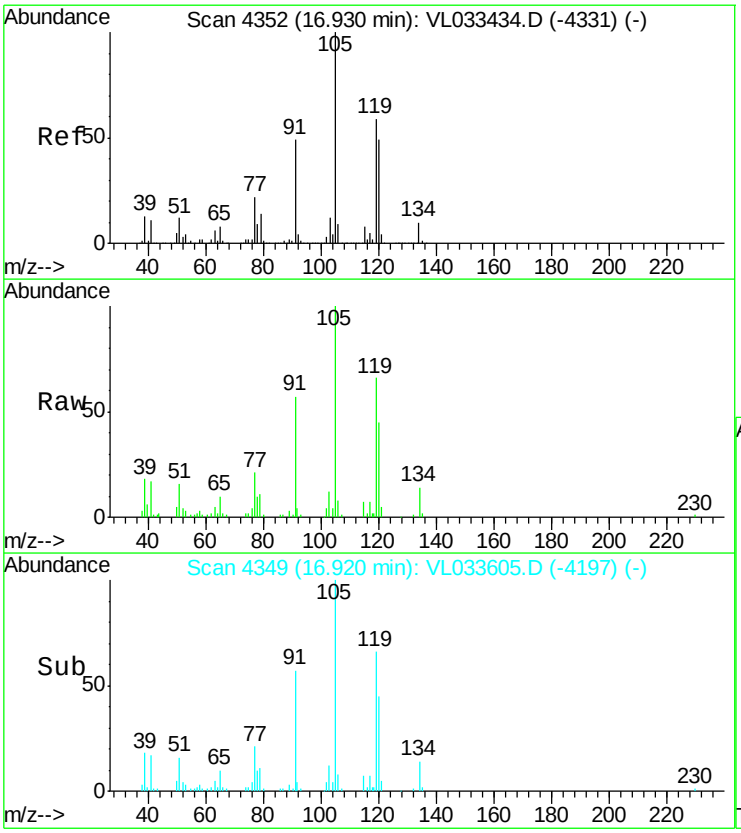
#73
1,3,5-Trimethylbenzene
Concen: 0.251 ppbv
RT: 16.15 min Scan# 4111
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:105 Resp: 58989

Ion	Ratio	Lower	Upper
105	100		
120	32.5	35.7	53.5#

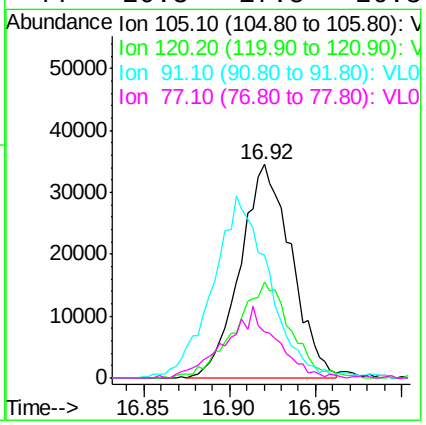


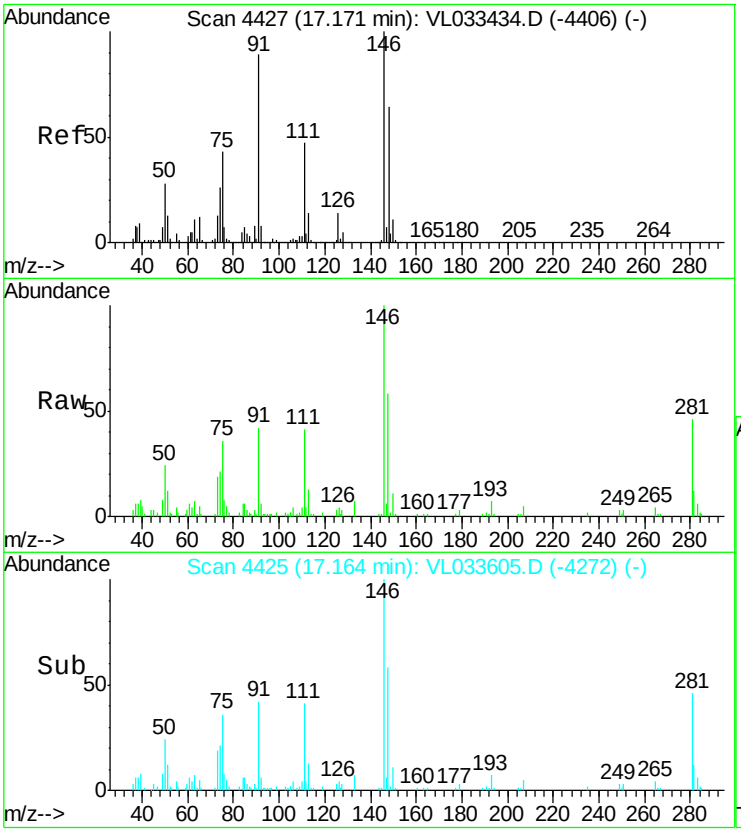


#74
1,2,4-Trimethylbenzene
Concen: 0.282 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:105 Resp: 71170

Ion	Ratio	Lower	Upper
105	100		
120	43.0	39.0	58.6
91	59.7	40.0	60.0
77	20.3	17.5	26.3



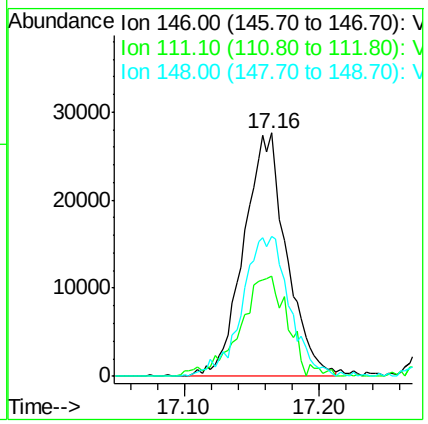


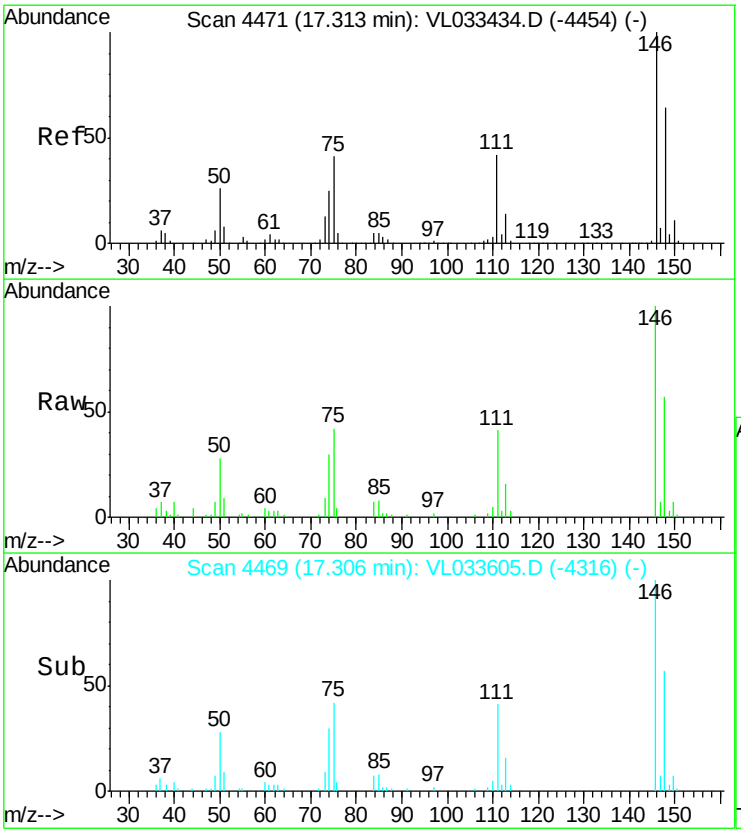
#75
1,3-Dichlorobenzene
Concen: 0.393 ppbv m
RT: 17.16 min Scan# 4425
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:146 Resp: 61209

Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.9	68.8
148	63.0	32.0	96.2

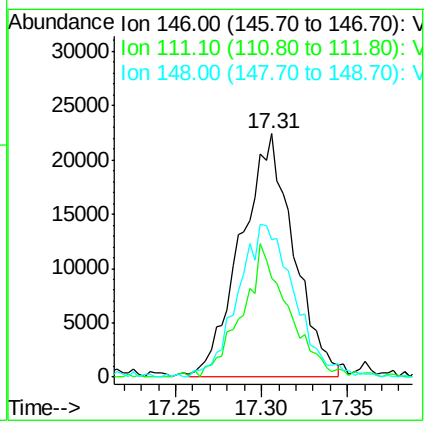


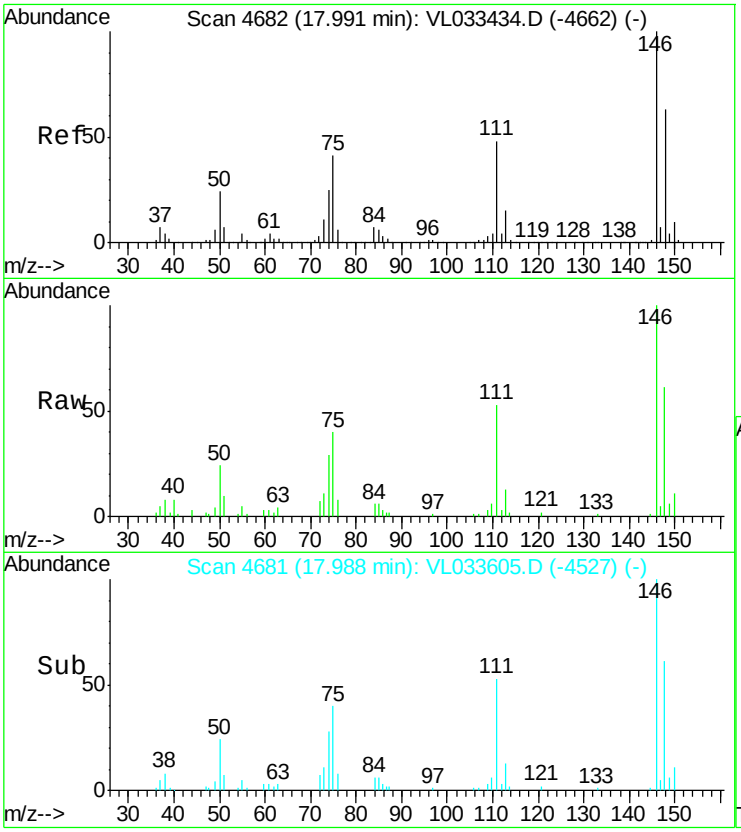


#76
1,4-Dichlorobenzene
Concen: 0.315 ppbv
RT: 17.31 min Scan# 4469
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:146 Resp: 47841

Ion	Ratio	Lower	Upper
146	100		
111	49.0	21.7	65.1
148	67.4	32.0	96.2



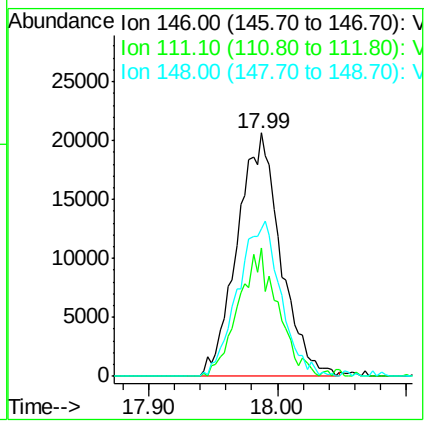


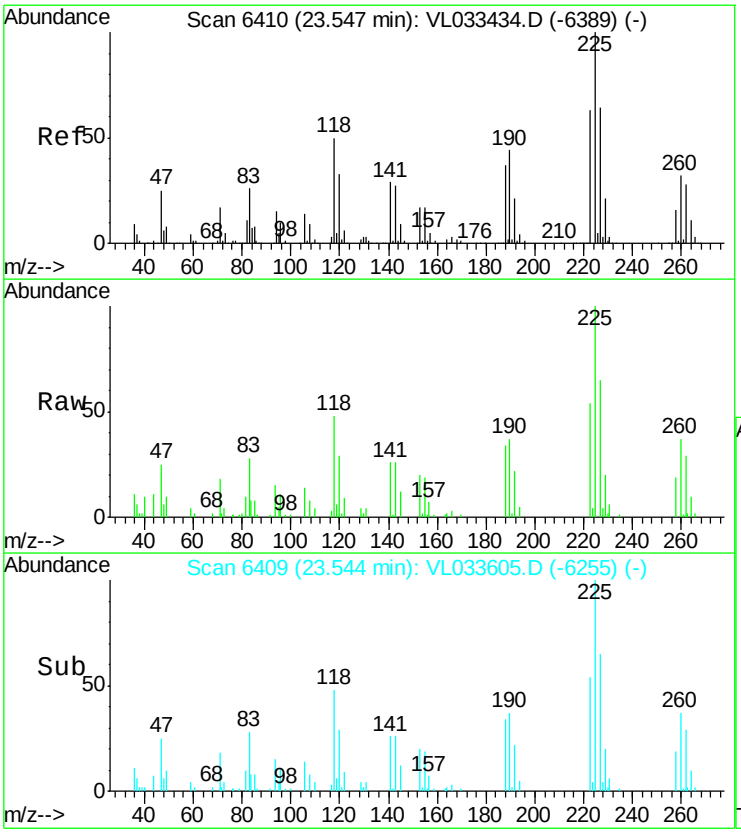
#77
1,2-Dichlorobenzene
Concen: 0.328 ppbv m
RT: 17.99 min Scan# 4681
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:146 Resp: 48420

Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.5	70.5#
148	0.0	32.0	96.0#

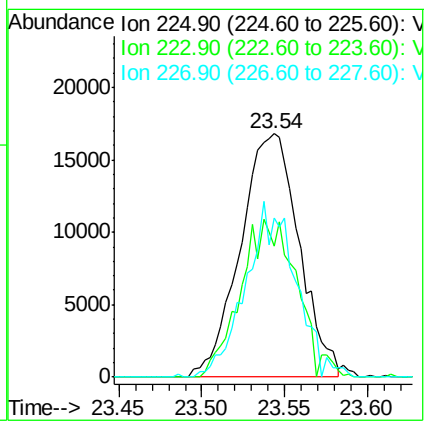


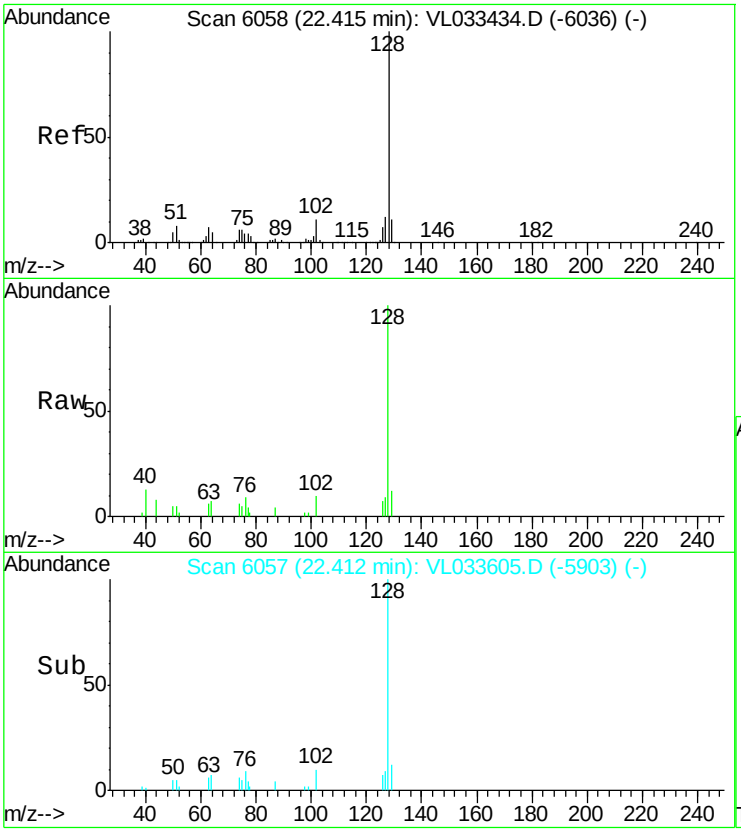


#78
Hexachloro-1,3-Butadiene
Concen: 0.423 ppbv
RT: 23.54 min Scan# 6409
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:225 Resp: 41401

Ion	Ratio	Lower	Upper
225	100		
223	61.8	50.0	75.0
227	61.2	51.1	76.7



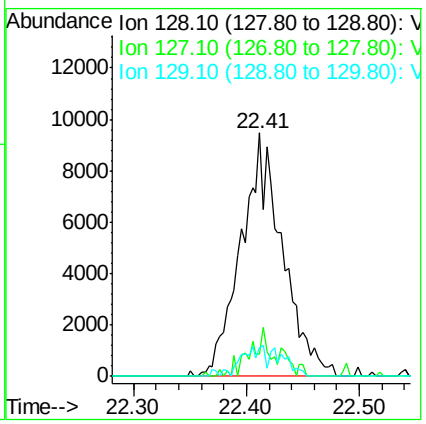


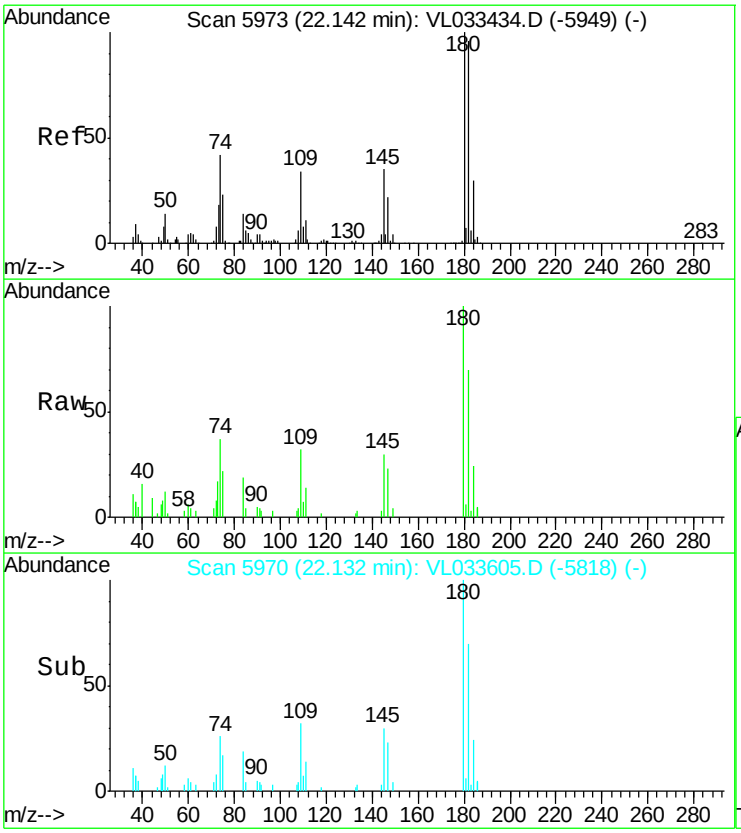
#79
Naphthalene
Concen: 0.111 ppbv m
RT: 22.41 min Scan# 6057
Delta R.T. -0.00 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:128 Resp: 23991

Ion	Ratio	Lower	Upper
128	100		
127	9.0	9.8	14.8#
129	11.6	8.6	12.8





#81
1,2,4-Trichlorobenzene
Concen: 0.179 ppbv m
RT: 22.13 min Scan# 5970
Delta R.T. -0.01 min
Lab File: VL033605.D
Acq: 17 Apr 2019 16:53

Tgt Ion:180 Resp: 21395

Ion	Ratio	Lower	Upper
180	100		
182	99.4	77.0	115.4
184	25.0	24.6	36.8