Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
Data File : VL033209.D
Acq On : 14 Feb 2019 22:16
Operator : SY/AP
Sample : K1483-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : MID

Quant Time: Feb 15 15:32:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.77	49	956048	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.30	114	2168643	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	2208433	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.58	95	1749840	10.29	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	29395	0.161	ppbv		95
3) Chlorodifluoromethane	3.01	51	36877	0.320	ppbv		94
4) Chloromethane	3.17	50	7522	0.124	ppbv		91
7) Chloroethane	3.60	64	127895	6.164	ppbv		97
10) Heptane	8.26	43	16418	0.098	ppbv		93
11) Trichlorofluoromethane	4.00	101	115134	0.778	ppbv		94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	321744	3.137	ppbv		99
13) Ethanol	3.66	45	54433	2.935	ppbv		97
15) Acetone	3.91	43	696974	6.471	ppbv	#	86
17) tert-Butyl alcohol	4.37	59	49906	2.430	ppbv		98
18) 1,1-Dichloroethene	4.35	96	184920	4.028	ppbv		99
19) Isopropyl Alcohol	4.03	45	85358m	1.168	ppbv		
20) Methylene Chloride	4.41	84	75565	1.764	ppbv	#	86
22) trans-1,2-Dichloroethene	4.96	96	18722	0.420	ppbv	#	83
24) 1,1-Dichloroethane	5.09	63	6454477	48.882	ppbv		98
26) Hexane	5.78	57	77052	0.678	ppbv	#	41
29) Chloroform	5.85	83	29799m	0.171	ppbv		
31) cis-1,2-Dichloroethene	5.64	61	31654	0.278	ppbv		95
32) 1,1,1-Trichloroethane	6.62	97	18175502	94.741	ppbv		89
34) 2-Butanone	5.35	43	32126	0.234	ppbv		98
36) Benzene	7.01	78	45964	0.209	ppbv		96
37) 1,2-Dichloroethane	6.42	62	36405m	0.299	ppbv		
38) Trichloroethene	7.97	130	82799m	0.880	ppbv		
40) 1,4-Dioxane	7.98	88	49800m	1.579	ppbv		
44) 2,2,4-Trimethylpentane	7.99	57	67430m	0.181	ppbv		
47) 1,1,2-Trichloroethane	9.61	97	23315m	0.259	ppbv		
52) Tetrachloroethene	11.37	164	113594	1.345	ppbv		90
53) Toluene	9.95	91	85507m	0.329	ppbv		
58) Ethyl Benzene	12.87	91	92074	0.258	ppbv		89
59) m/p-Xylene	13.12	91	412278m	1.382	ppbv		
60) o-Xylene	13.85	91	99354	0.343	ppbv		99
74) 1,2,4-Trimethylbenzene	16.93	105	44047	0.133	ppbv	#	79

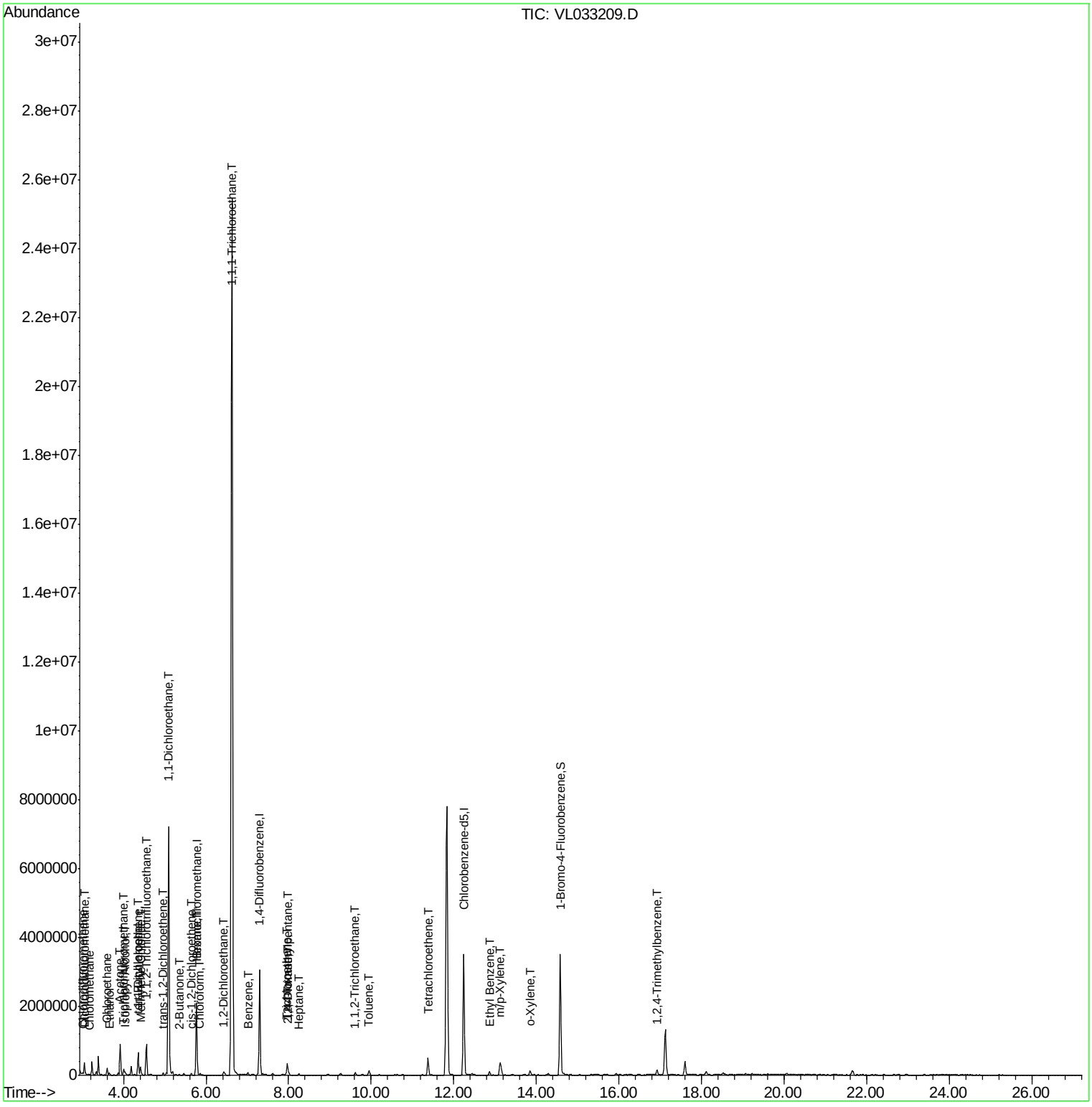
(#) = qualifier out of range (m) = manual integration (+) = signals summed

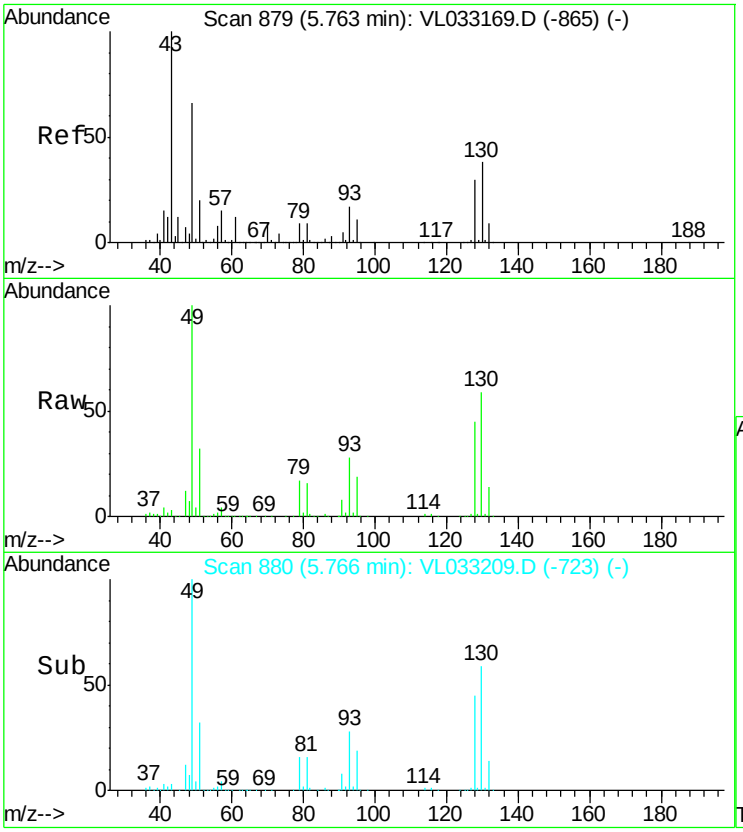
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
Data File : VL033209.D
Acq On : 14 Feb 2019 22:16
Operator : SY/AP
Sample : K1483-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : MID

Quant Time: Feb 15 15:32:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration



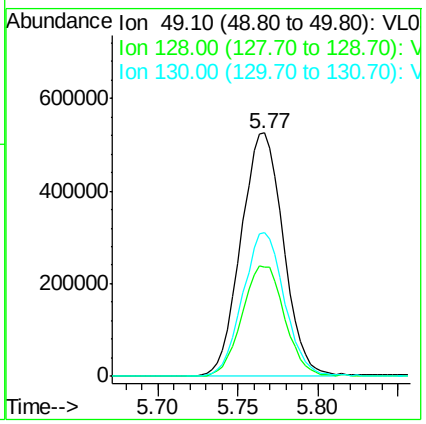


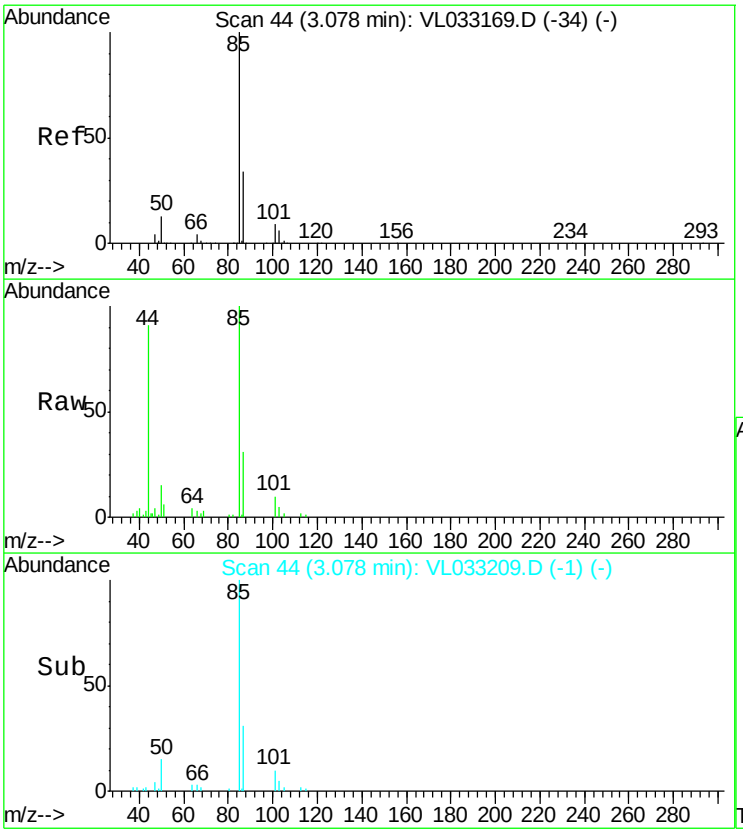
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 49 Resp: 956048

Ion	Ratio	Lower	Upper
49	100		
128	45.9	23.6	71.0
130	58.8	30.3	91.0

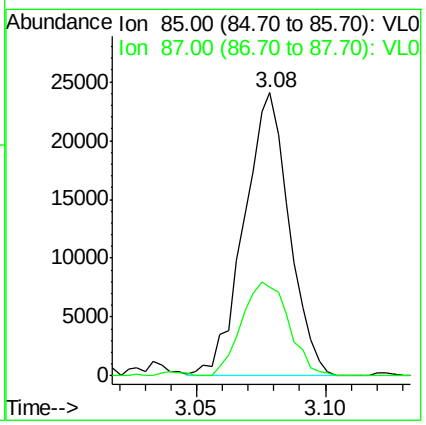


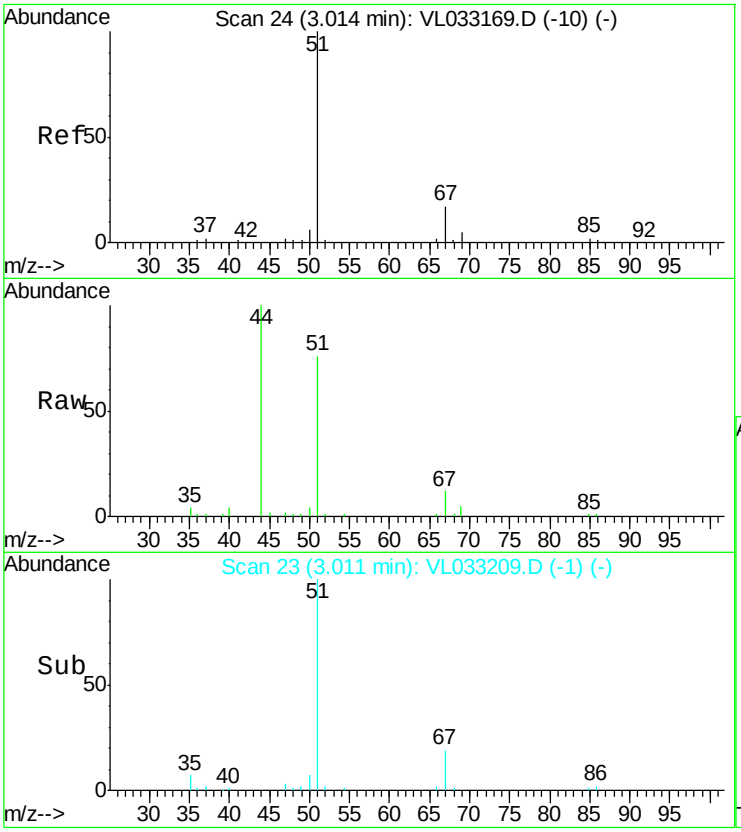


#2
Dichlorodifluoromethane
Concen: 0.161 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 85 Resp: 29395

Ion	Ratio	Lower	Upper
85	100		
87	31.5	27.4	41.2

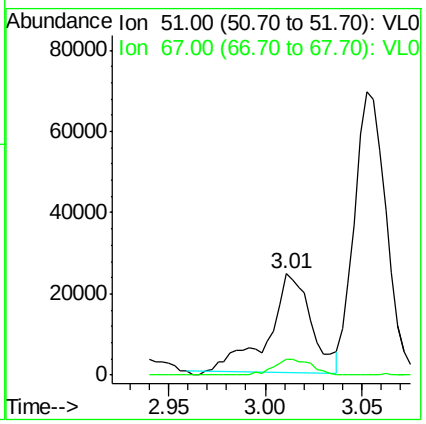




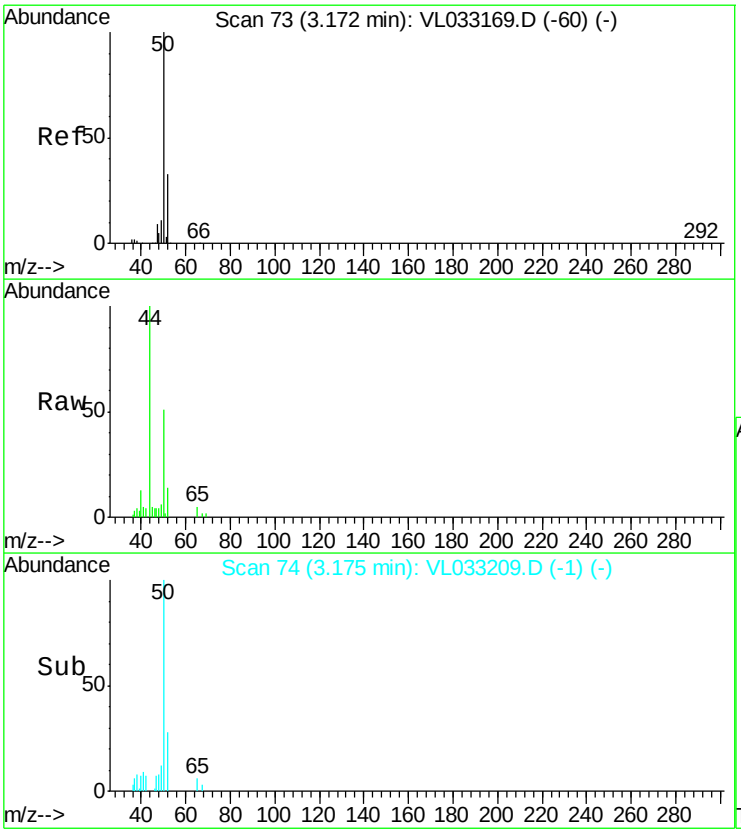
#3
Chlorodifluoromethane
Concen: 0.320 ppbv
RT: 3.01 min Scan# 23
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 51 Resp: 36877

Ion	Ratio	Lower	Upper
51	100		
67	15.0	14.0	21.0



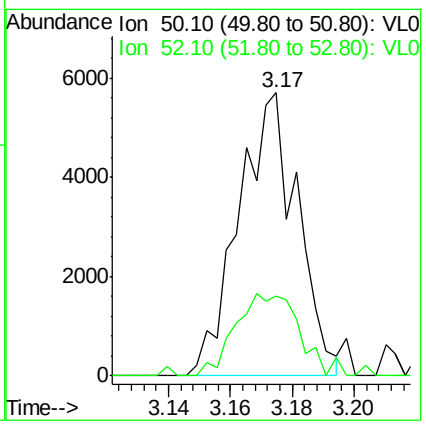
Instrument :
MSVOA_L
ClientSampleId :
MID

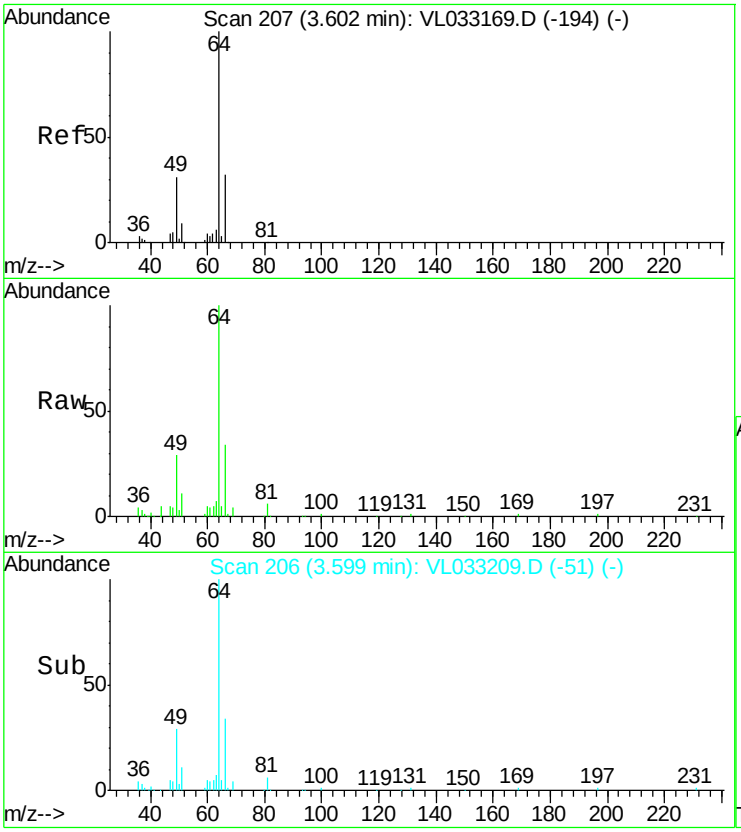


#4
Chloromethane
Concen: 0.124 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 50 Resp: 7522

Ion	Ratio	Lower	Upper
50	100		
52	28.1	26.5	39.7



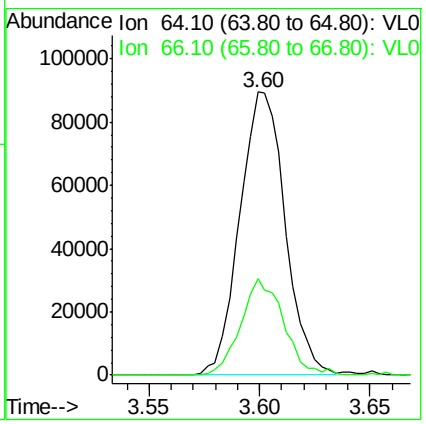


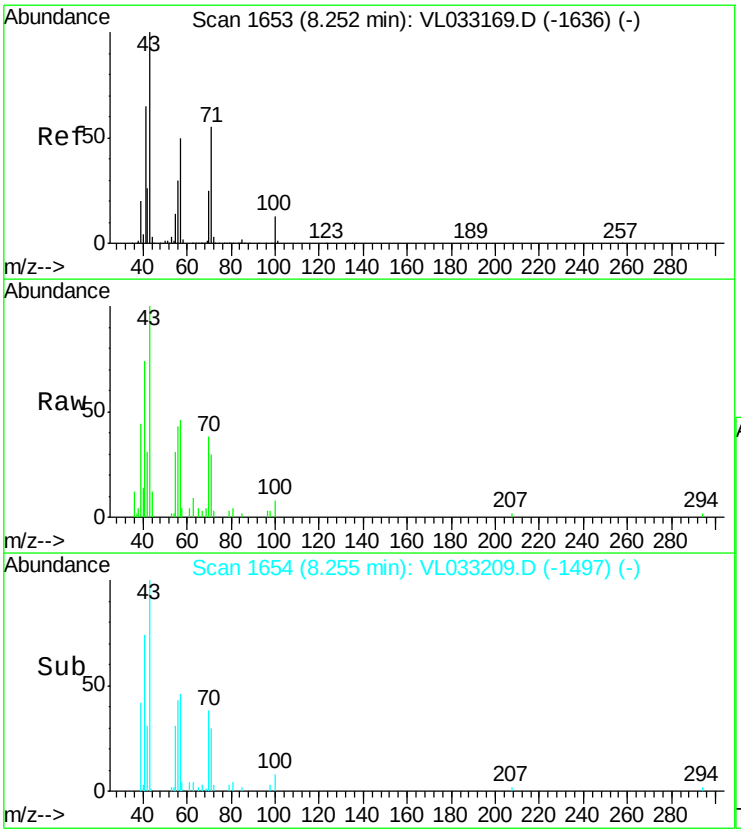
#7
Chloroethane
Concen: 6.164 ppbv
RT: 3.60 min Scan# 206
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 64 Resp: 127895

Ion	Ratio	Lower	Upper
64	100		
66	34.1	26.0	39.0

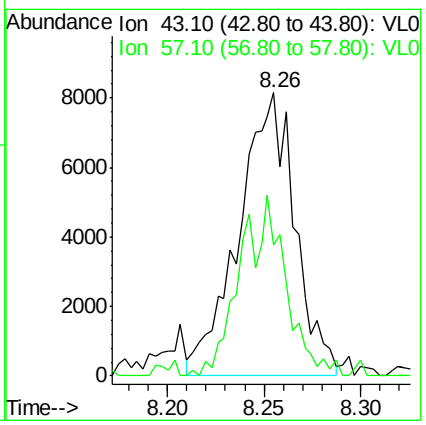


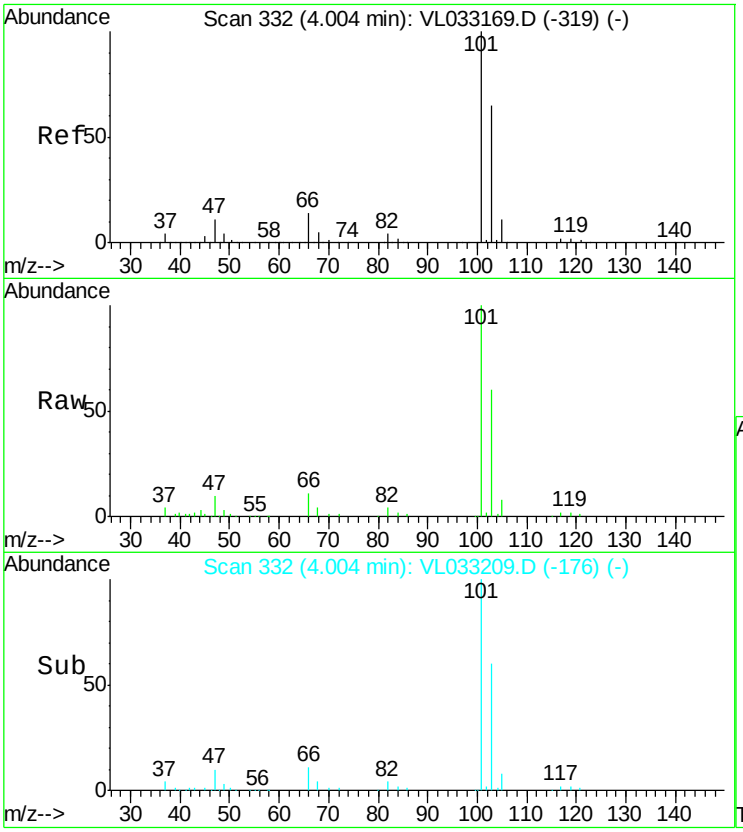


#10
Heptane
Concen: 0.098 ppbv
RT: 8.26 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 43 Resp: 16418

Ion	Ratio	Lower	Upper
43	100		
57	54.2	39.5	59.3



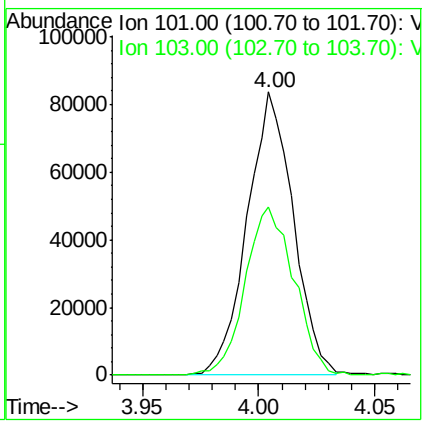


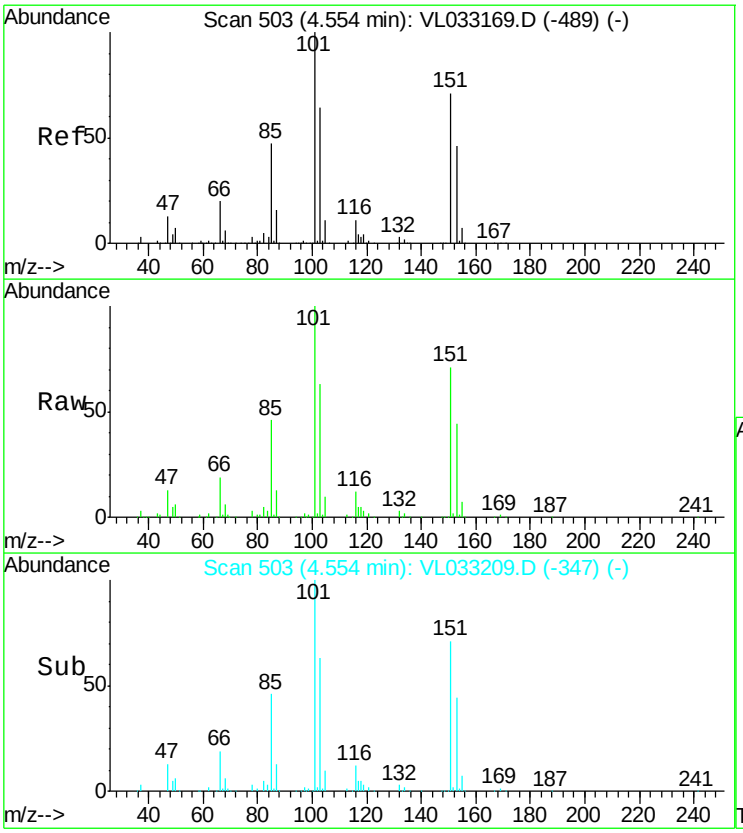
#11
Trichlorofluoromethane
Concen: 0.778 ppbv
RT: 4.00 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion:101 Resp: 115134

Ion	Ratio	Lower	Upper
101	100		
103	59.6	51.7	77.5

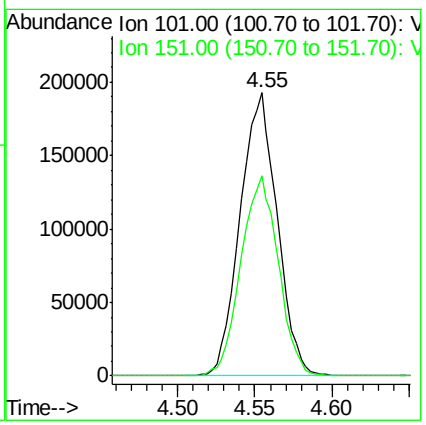


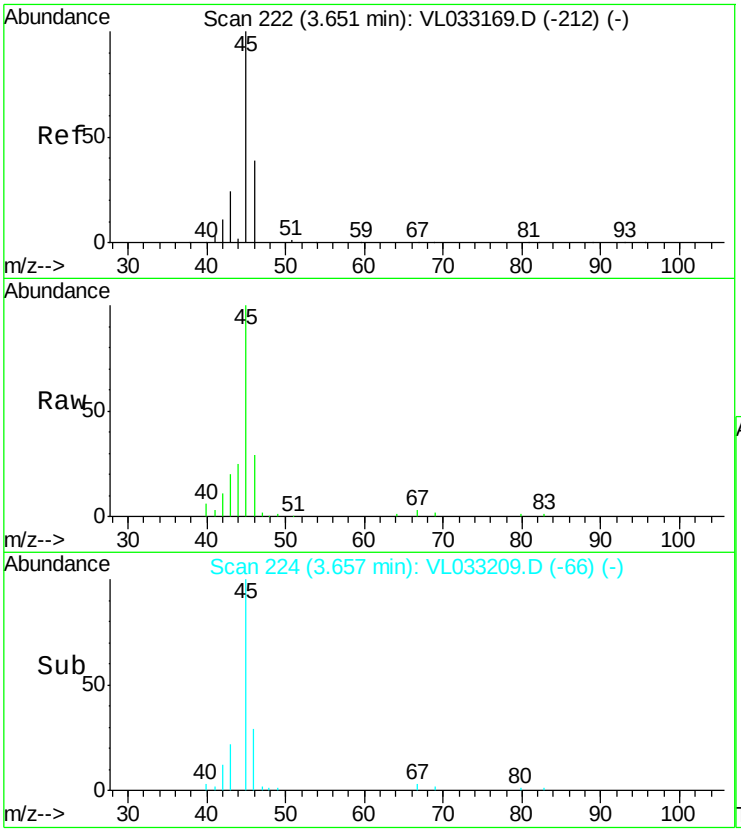


#12
1,1,2-Trichlorotrifluoroethane
Concen: 3.137 ppbv
RT: 4.55 min Scan# 503
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion:101 Resp: 321744

Ion	Ratio	Lower	Upper
101	100		
151	71.2	57.4	86.0



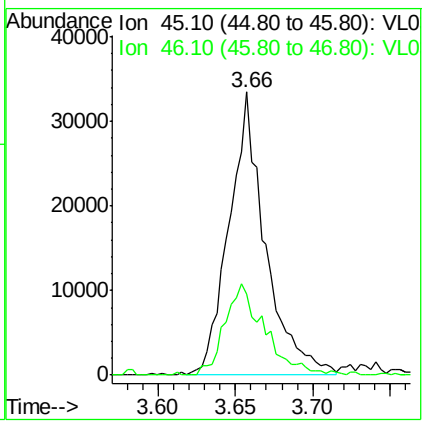


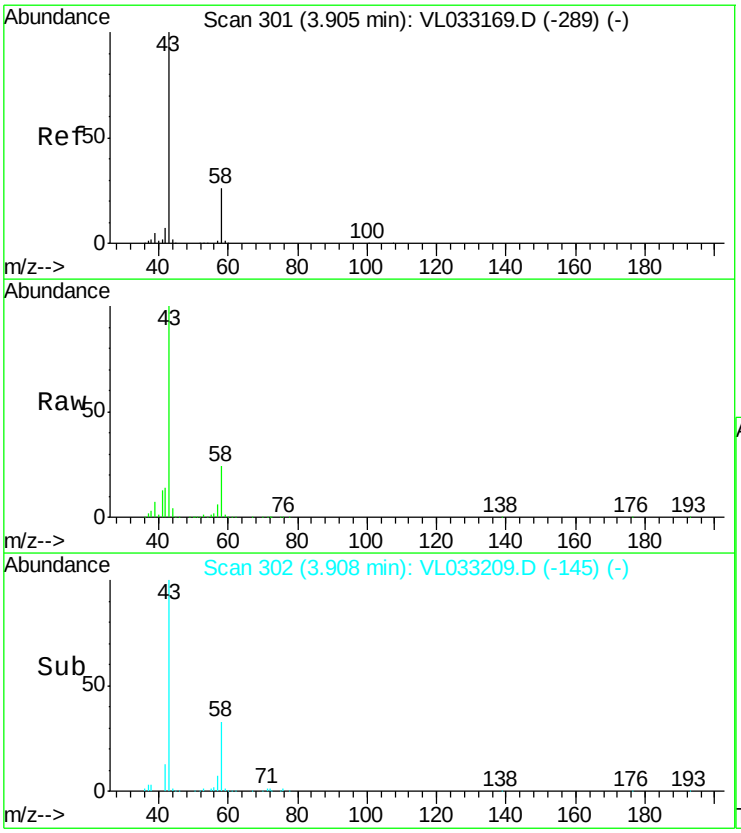
#13
Ethanol
Concen: 2.935 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument : MSVOA_L
ClientSampleId : MID

Tgt Ion: 45 Resp: 54433

Ion	Ratio	Lower	Upper
45	100		
46	35.9	15.0	60.2

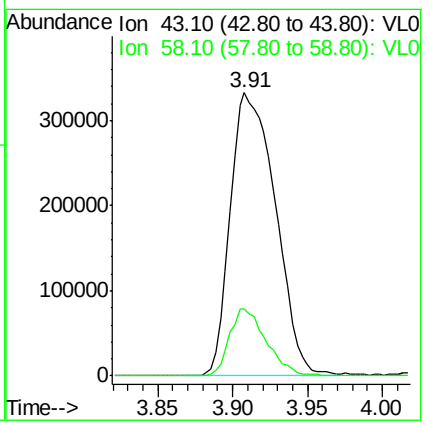


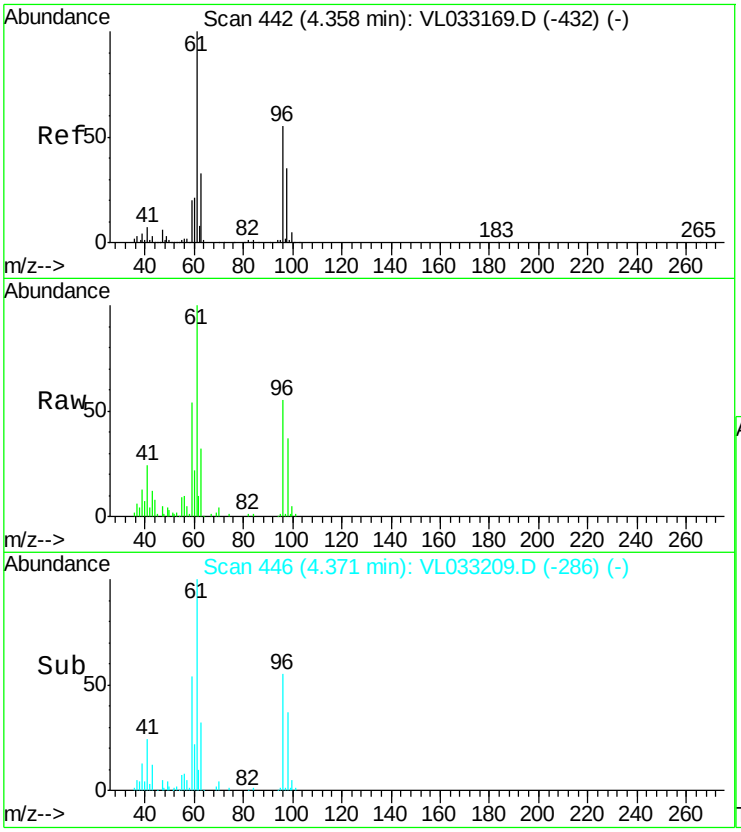


#15
Acetone
Concen: 6.471 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 43 Resp: 696974

Ion	Ratio	Lower	Upper
43	100		
58	19.4	21.1	31.7#



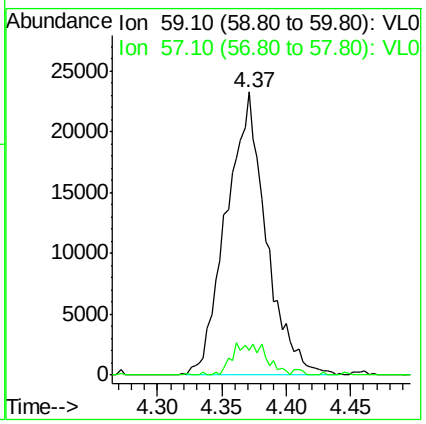


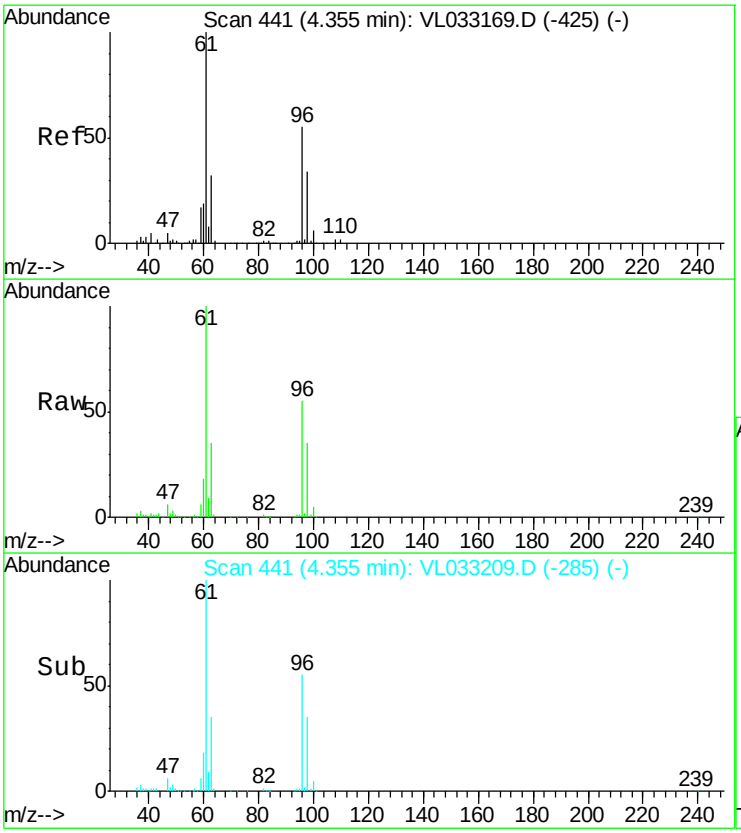
#17
tert-Butyl alcohol
Concen: 2.430 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 59 Resp: 49906

Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.6	11.4

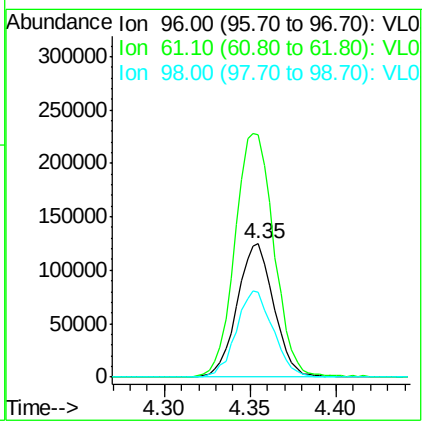


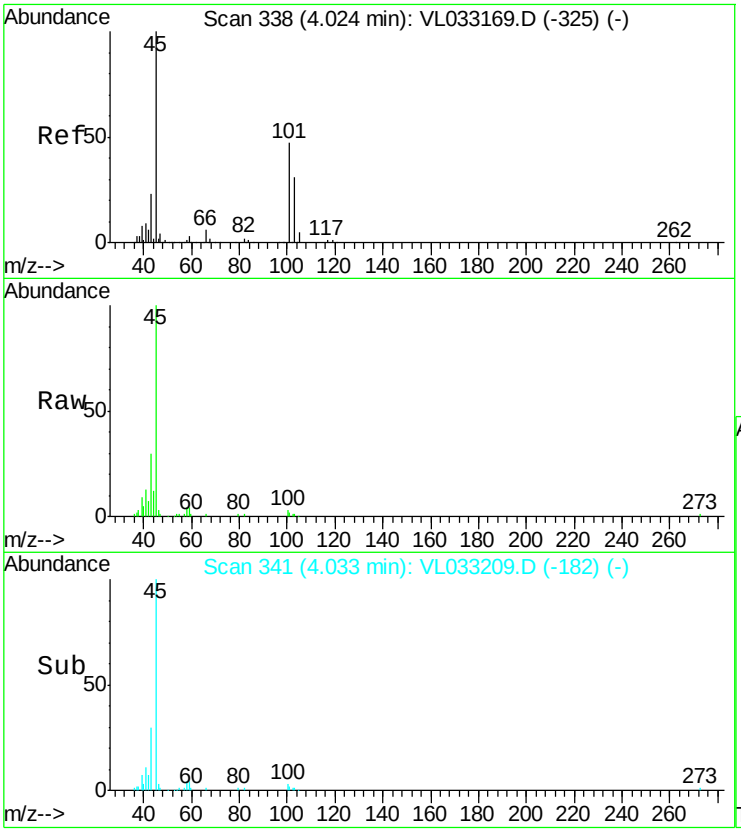


#18
1,1-Dichloroethene
Concen: 4.028 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 96 Resp: 184920

Ion	Ratio	Lower	Upper
96	100		
61	182.1	145.0	217.6
98	63.4	50.0	75.0



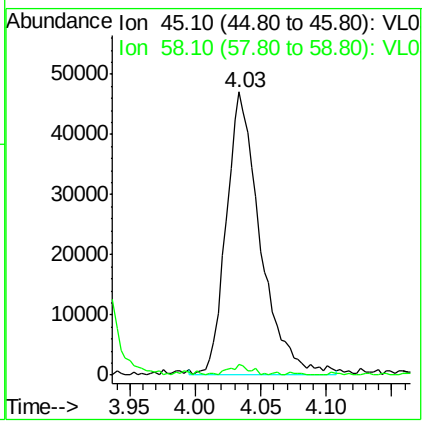


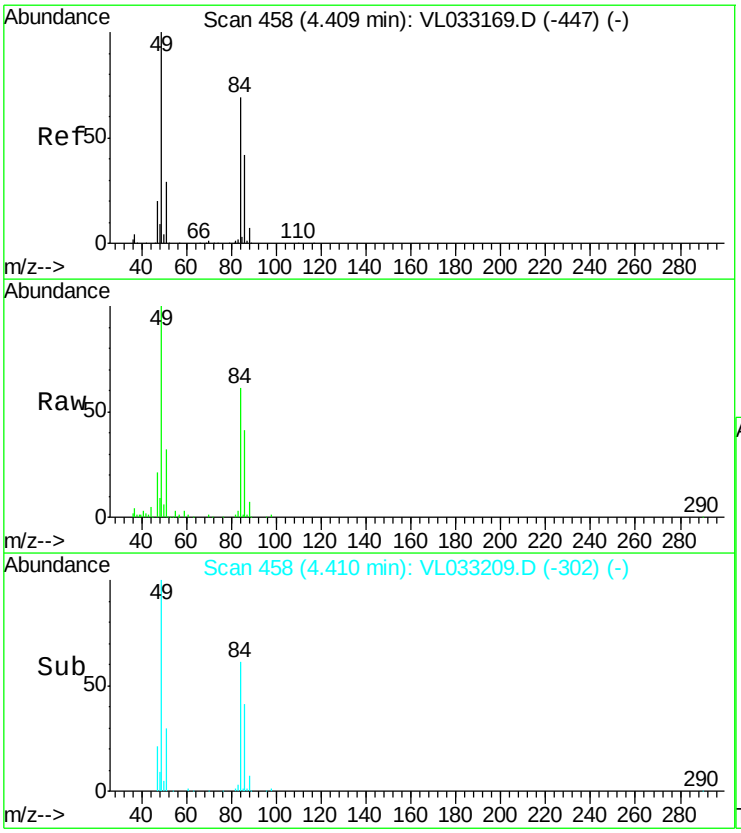
#19
Isopropyl Alcohol
Concen: 1.168 ppbv m
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument : MSVOA_L
ClientSampleId : MID

Tgt Ion: 45 Resp: 85358

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.5	2.3#

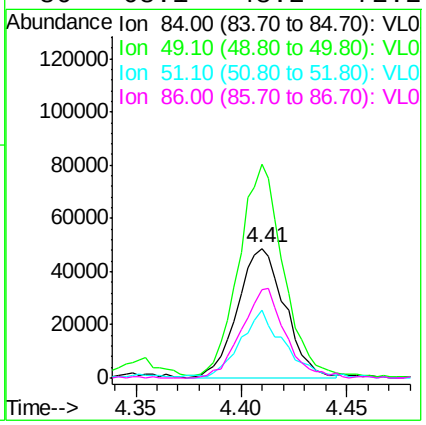


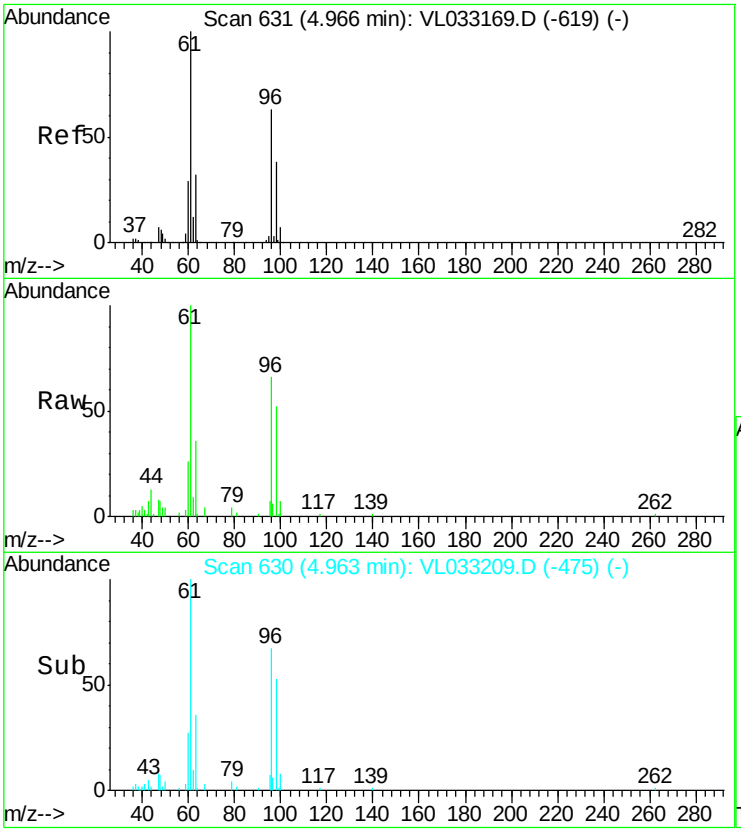


#20
Methylene Chloride
Concen: 1.764 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 84 Resp: 75565

Ion	Ratio	Lower	Upper
84	100		
49	163.3	115.8	173.8
51	51.2	33.0	49.6#
86	68.1	48.2	72.2



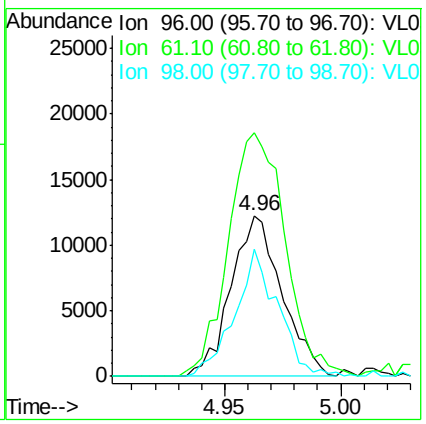


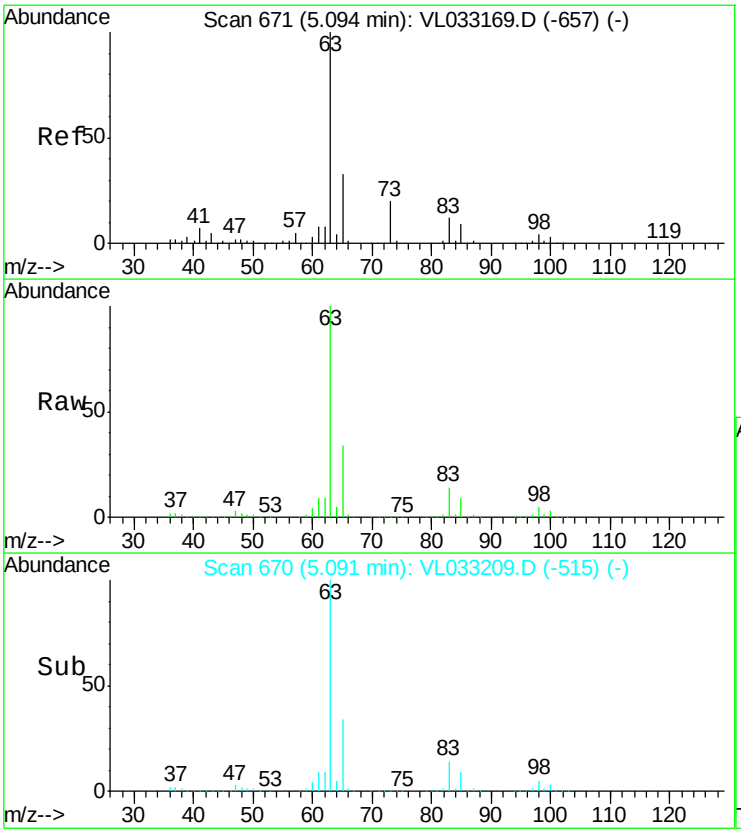
#22
trans-1,2-Dichloroethene
Concen: 0.420 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument : MSVOA_L
ClientSampleId : MID

Tgt Ion: 96 Resp: 18722

Ion	Ratio	Lower	Upper
96	100		
61	136.3	126.4	189.6
98	73.0	48.4	72.6#

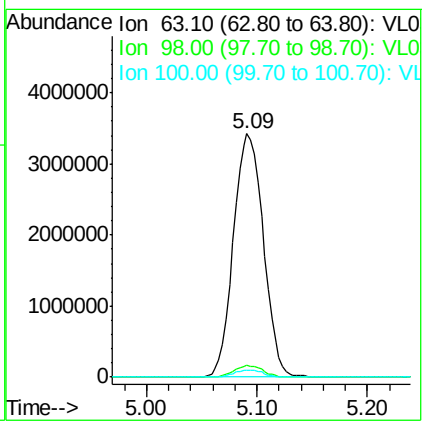


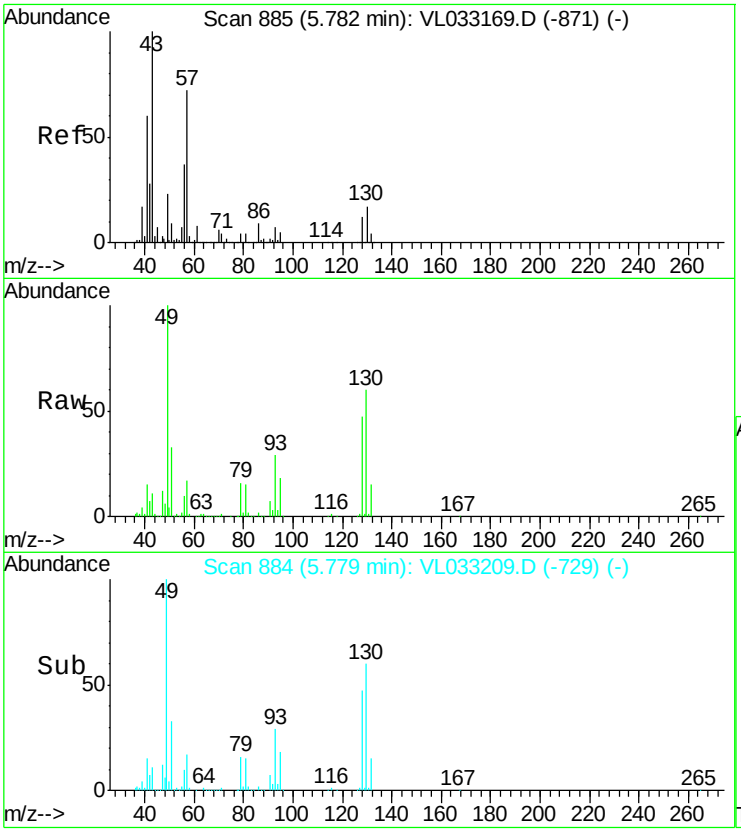


#24
1,1-Dichloroethane
Concen: 48.882 ppbv
RT: 5.09 min Scan# 670
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 63 Resp: 6454477

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.1	6.5
100	3.0	1.4	4.2



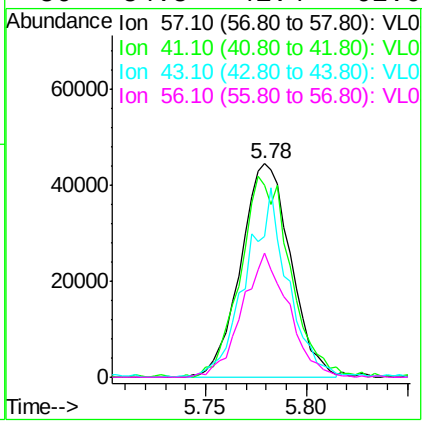


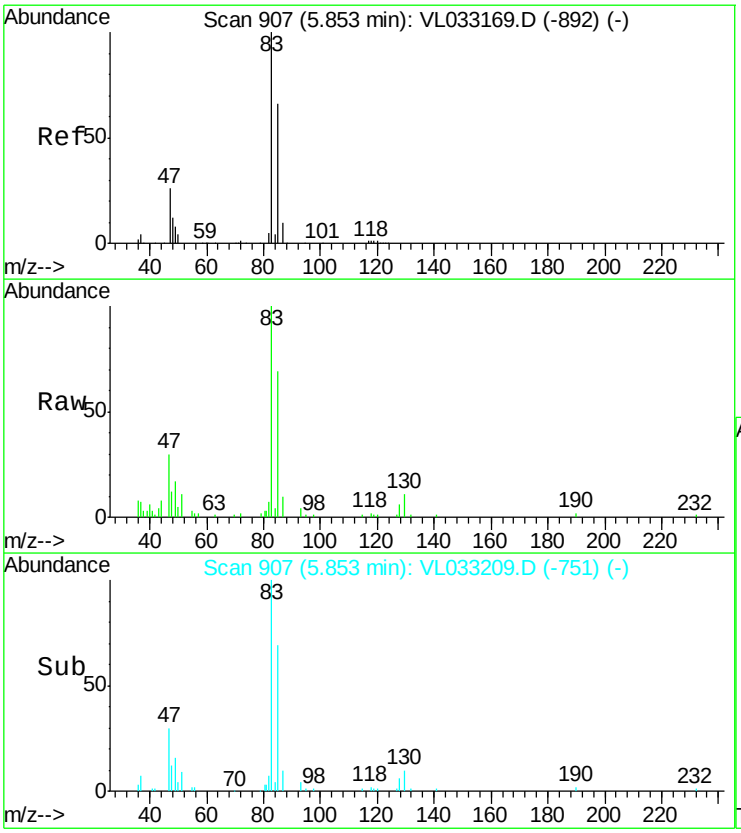
#26
Hexane
Concen: 0.678 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument : MSVOA_L
ClientSampleId : MID

Tgt Ion: 57 Resp: 77052

Ion	Ratio	Lower	Upper
57	100		
41	95.9	69.4	104.2
43	74.9	176.7	265.1#
56	54.5	41.4	62.0

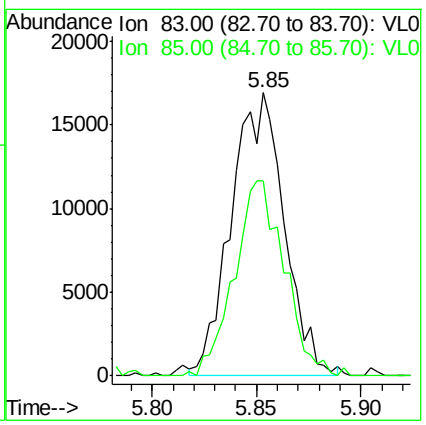


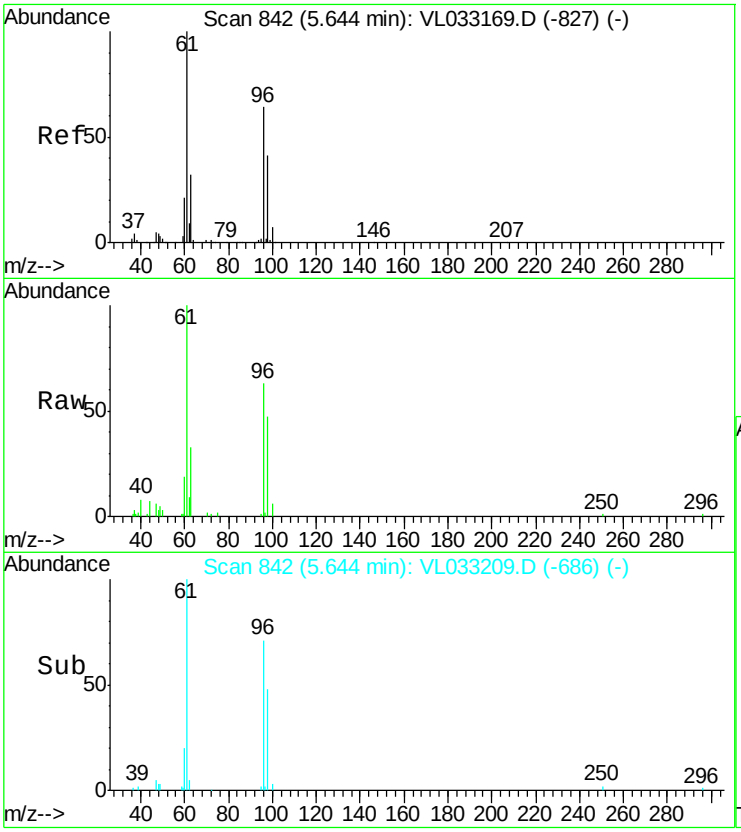


#29
Chloroform
Concen: 0.171 ppbv m
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 83 Resp: 29799

Ion	Ratio	Lower	Upper
83	100		
85	68.8	52.6	78.8



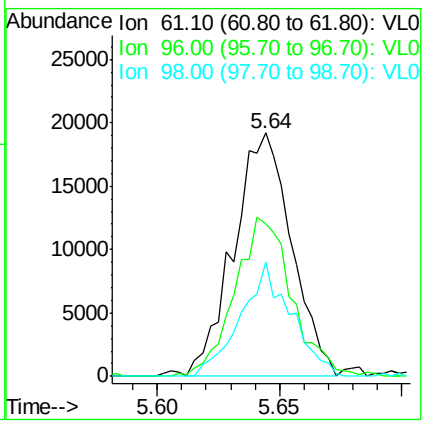


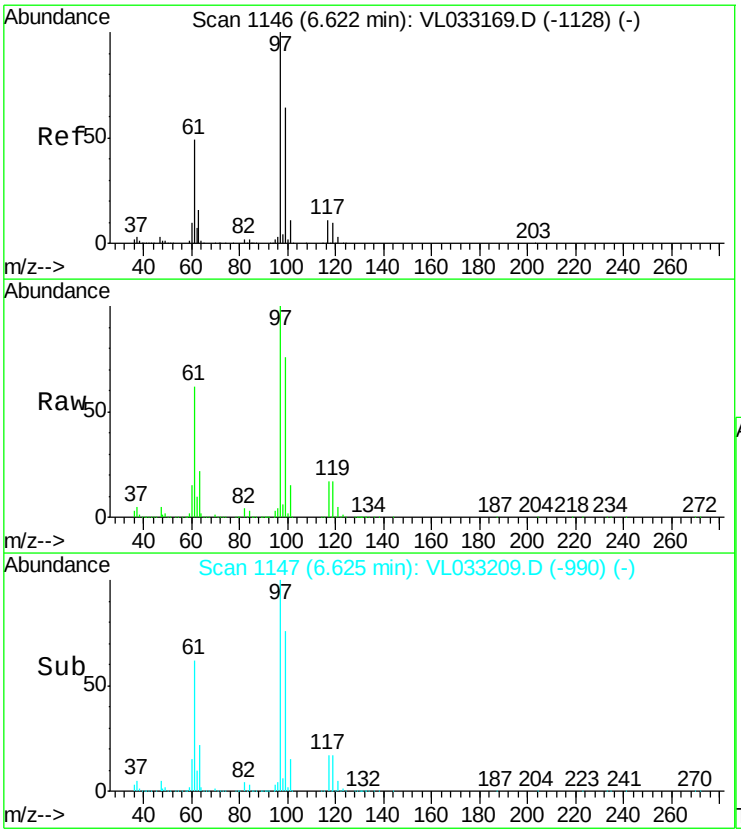
#31
cis-1,2-Dichloroethene
Concen: 0.278 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 61 Resp: 31654

Ion	Ratio	Lower	Upper
61	100		
96	61.8	51.2	76.8
98	47.0	32.8	49.2

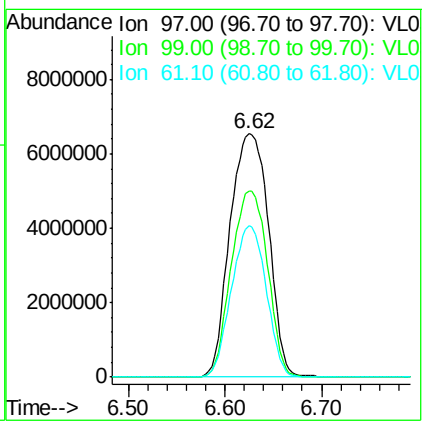


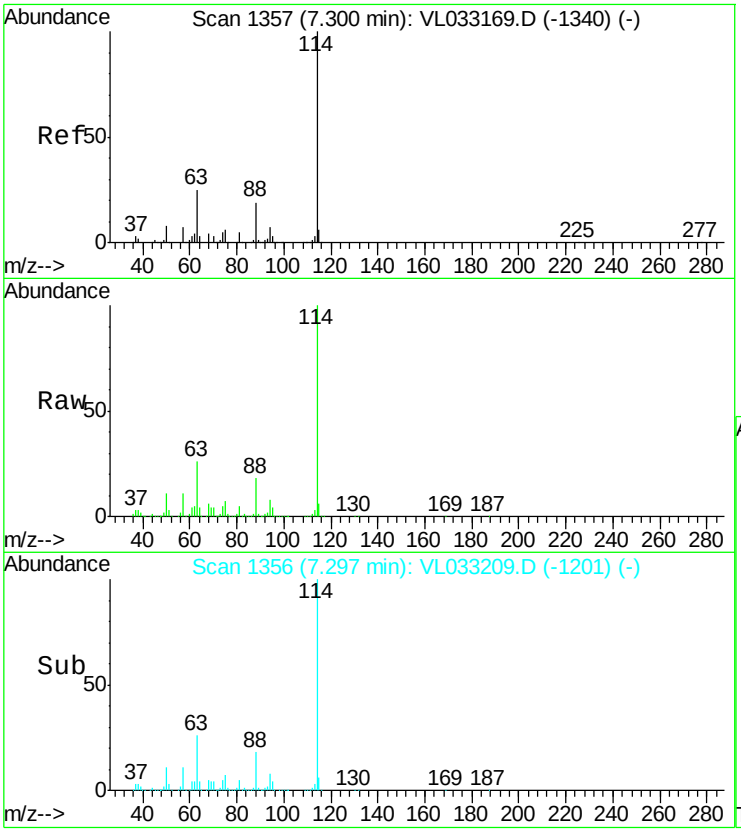


#32
1,1,1-Trichloroethane
Concen: 94.741 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 97 Resp:18175502

Ion	Ratio	Lower	Upper
97	100		
99	72.1	51.4	77.2
61	56.3	38.9	58.3



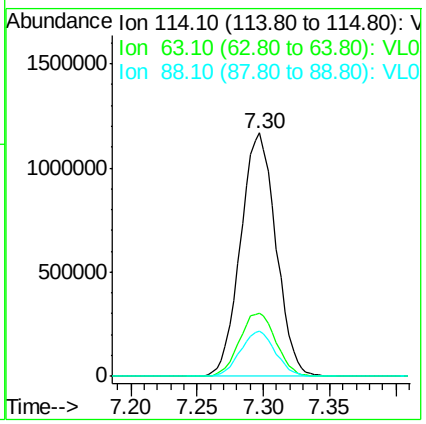


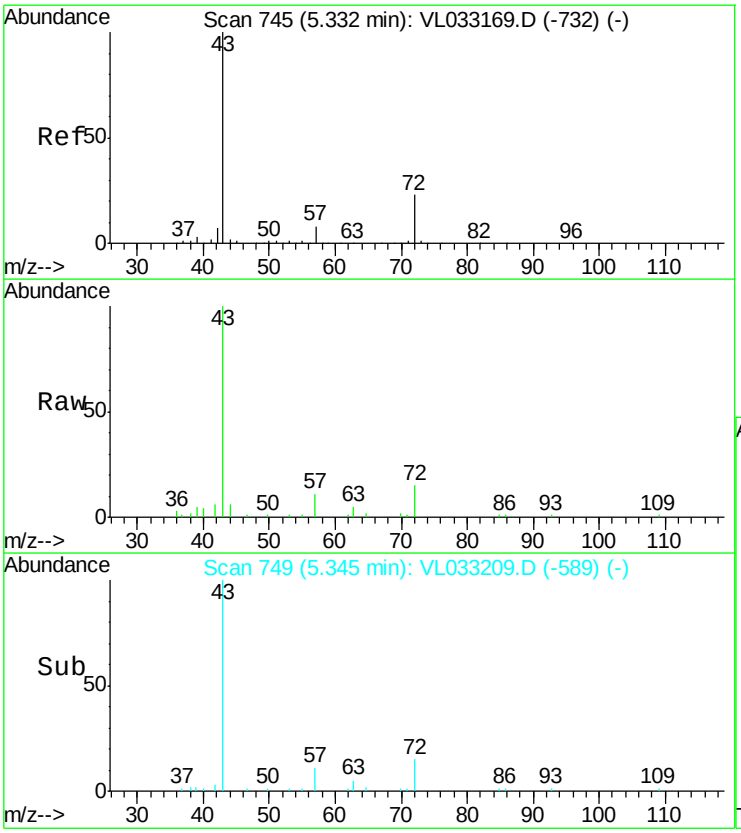
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion:114 Resp: 2168643

Ion	Ratio	Lower	Upper
114	100		
63	26.9	20.8	31.2
88	18.5	14.6	22.0

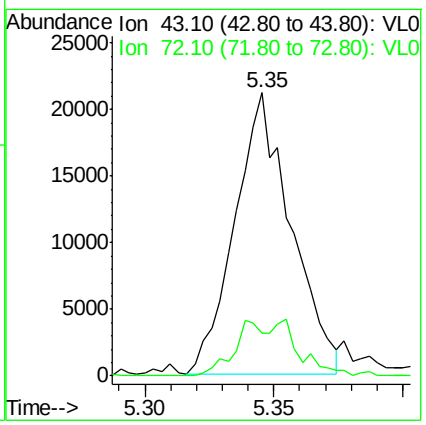


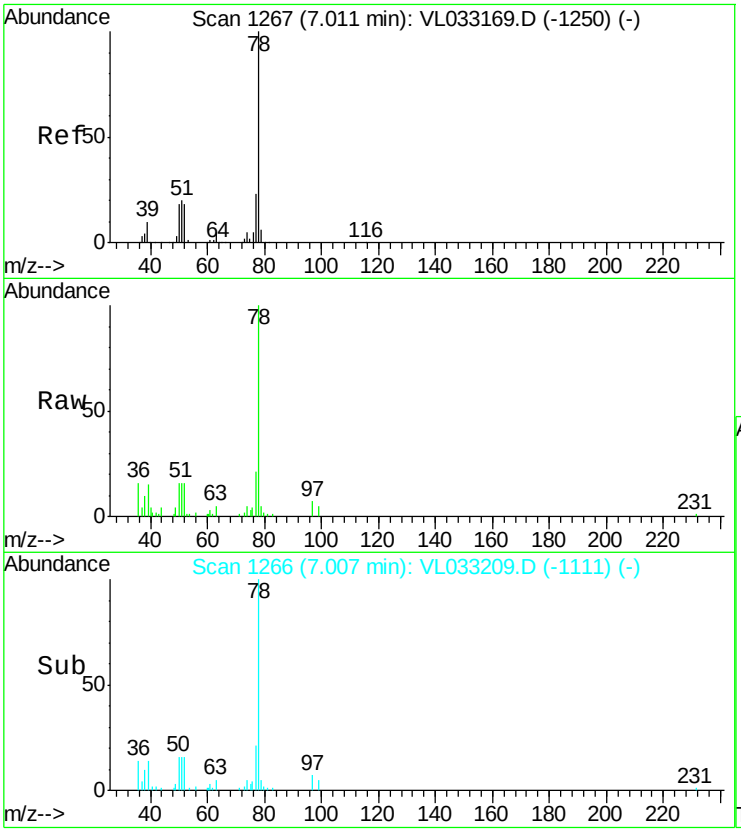


#34
2-Butanone
Concen: 0.234 ppbv
RT: 5.35 min Scan# 749
Delta R.T. 0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 43 Resp: 32126

Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.8	26.6



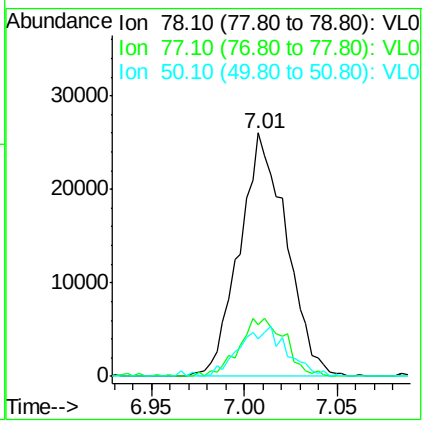


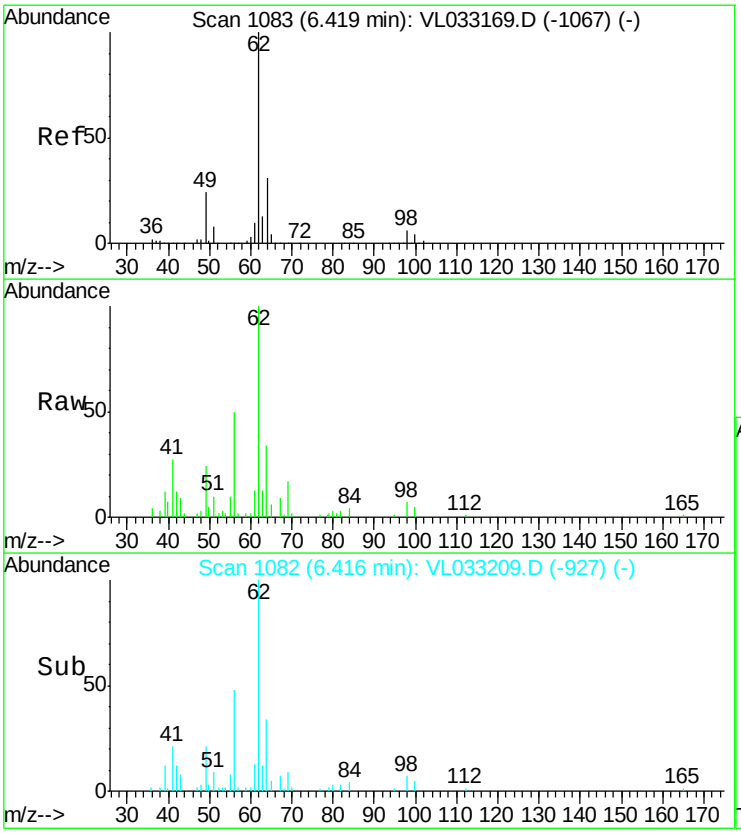
#36
Benzene
Concen: 0.209 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument : MSVOA_L
ClientSampleId : MID

Tgt Ion: 78 Resp: 45964

Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.0	27.0
50	15.6	14.2	21.2

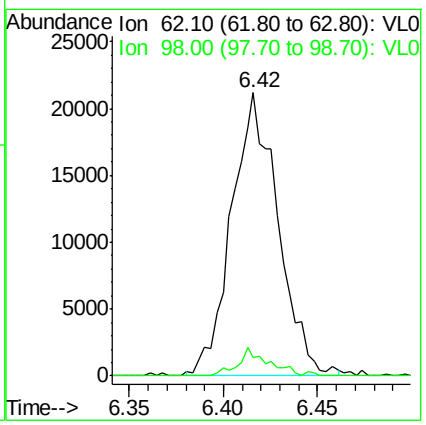


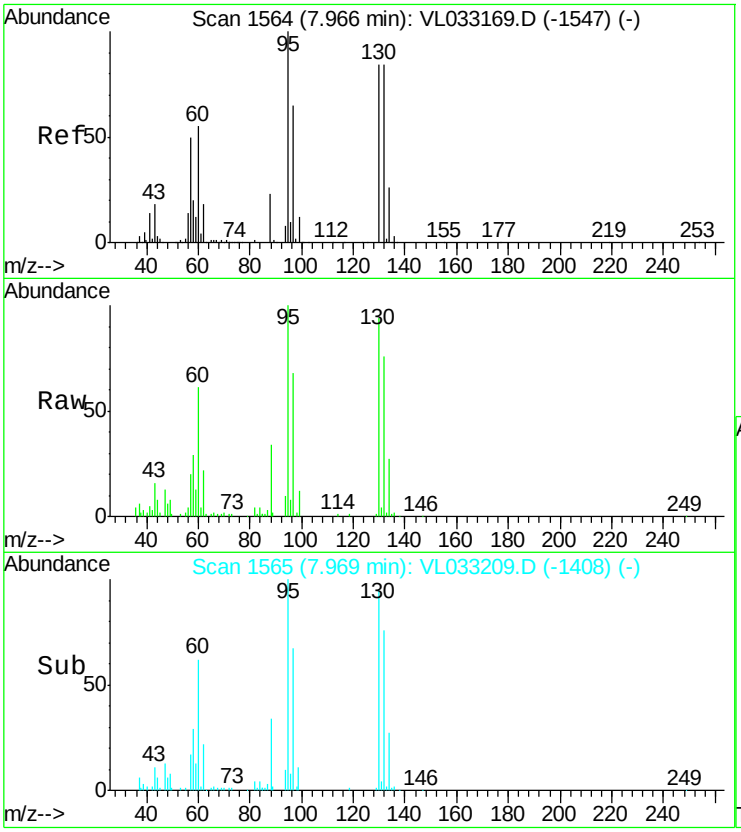


#37
1,2-Dichloroethane
Concen: 0.299 ppbv m
RT: 6.42 min Scan# 1082
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 62 Resp: 36405

Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.7	7.1#



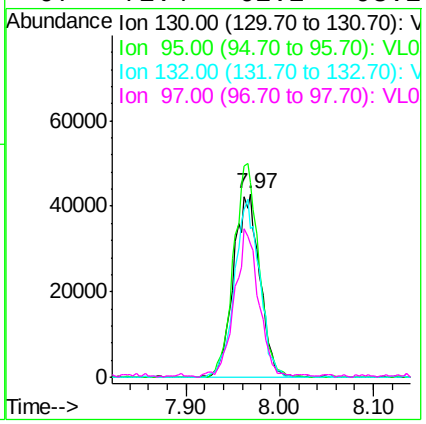


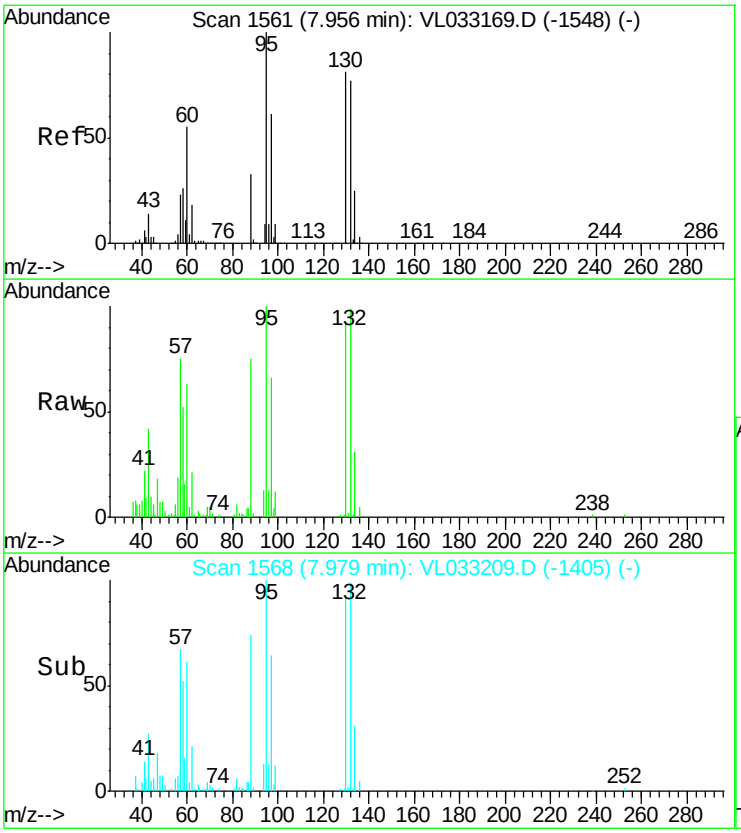
#38
Trichloroethene
Concen: 0.880 ppbv m
RT: 7.97 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion:130 Resp: 82799

Ion	Ratio	Lower	Upper
130	100		
95	106.2	95.5	143.3
132	80.6	80.0	120.0
97	72.4	62.2	93.2

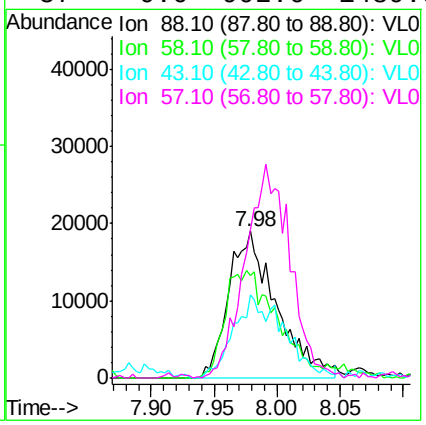


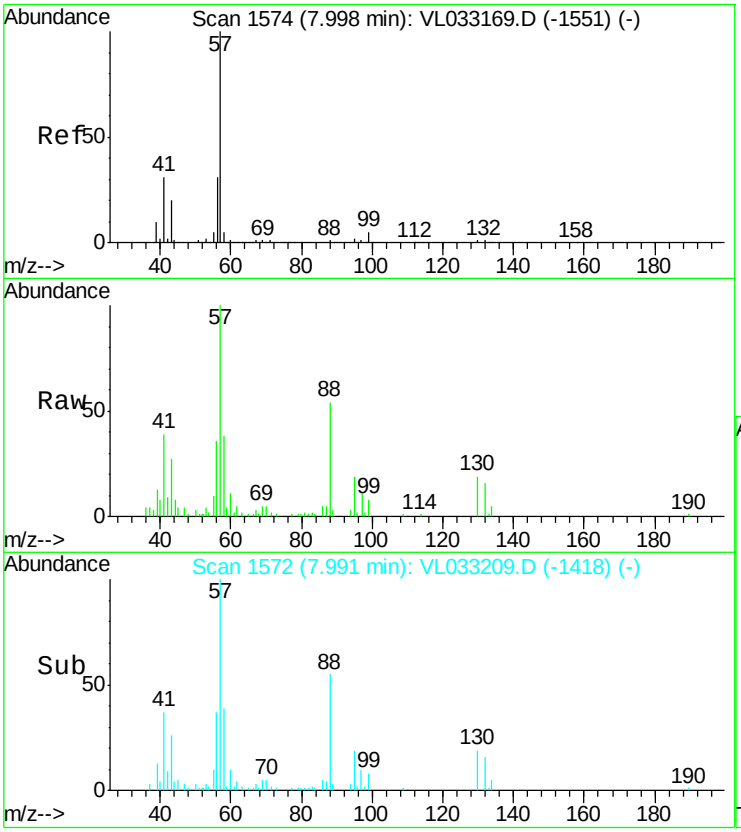


#40
1,4-Dioxane
Concen: 1.579 ppbv m
RT: 7.98 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 88 Resp: 49800

Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.6	160.0#
43	0.0	220.2	330.2#
57	0.0	992.6	1489.0#



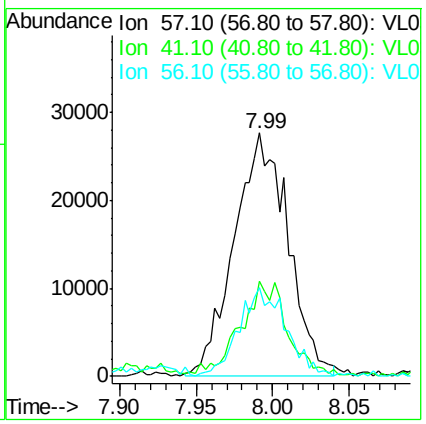


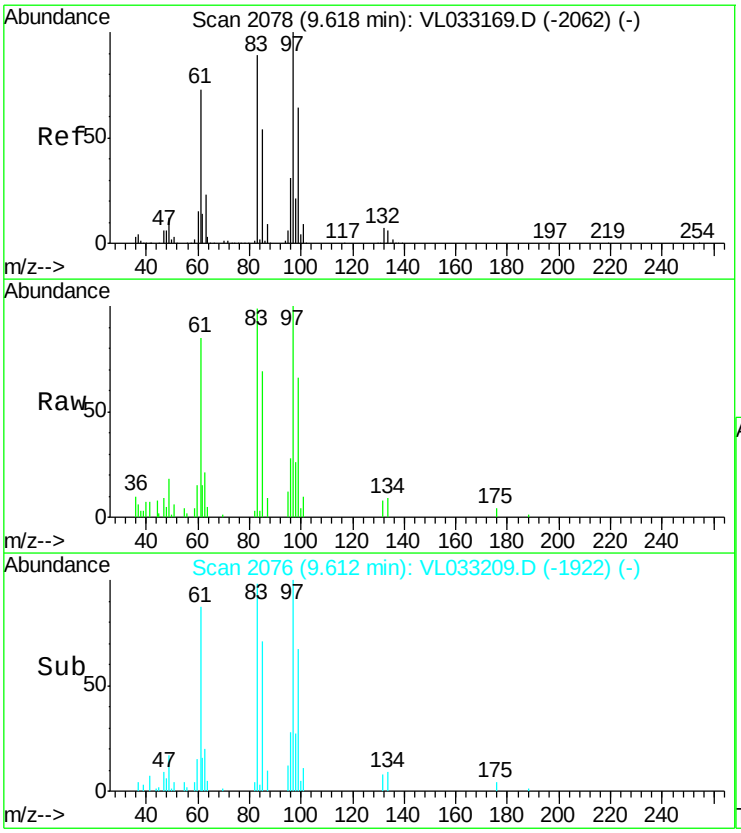
#44
2,2,4-Trimethylpentane
Concen: 0.181 ppbv m
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 57 Resp: 67430

Ion	Ratio	Lower	Upper
57	100		
41	34.9	25.1	37.7
56	32.5	24.5	36.7

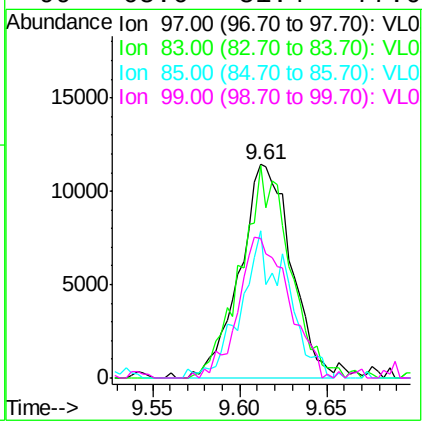


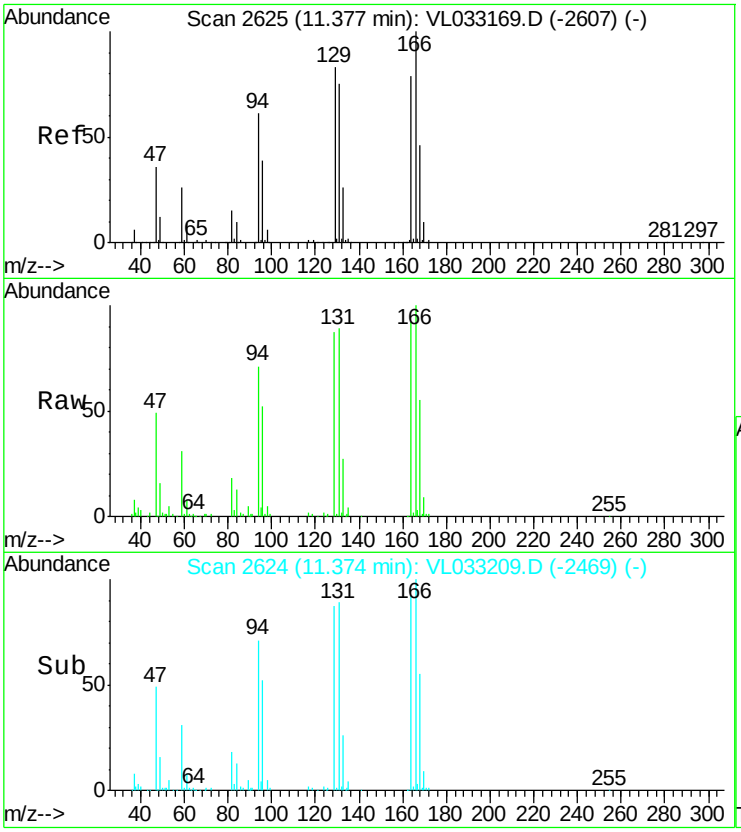


#47
1,1,2-Trichloroethane
Concen: 0.259 ppbv m
RT: 9.61 min Scan# 2076
Delta R.T. -0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 97 Resp: 23315

Ion	Ratio	Lower	Upper
97	100		
83	99.5	71.4	107.2
85	68.7	43.5	65.3#
99	65.6	51.4	77.0



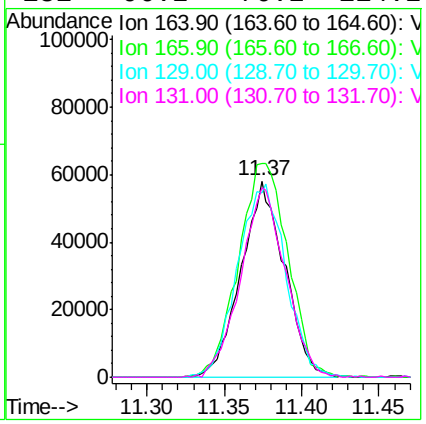


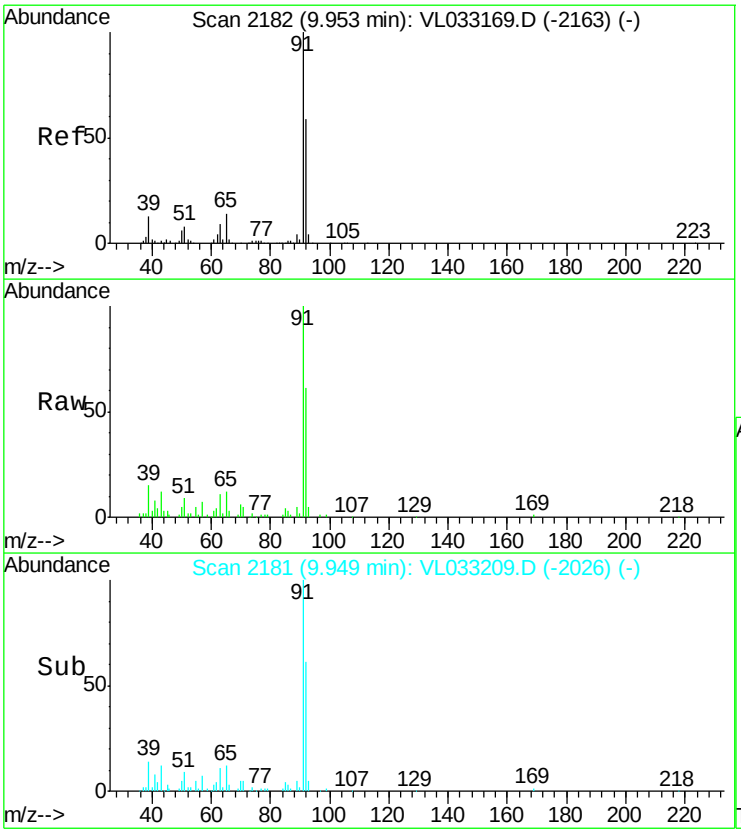
#52
Tetrachloroethene
Concen: 1.345 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument : MSVOA_L
ClientSampleId : MID

Tgt Ion:164 Resp: 113594

Ion	Ratio	Lower	Upper
164	100		
166	108.2	100.9	151.3
129	94.1	83.9	125.9
131	96.2	76.2	114.2

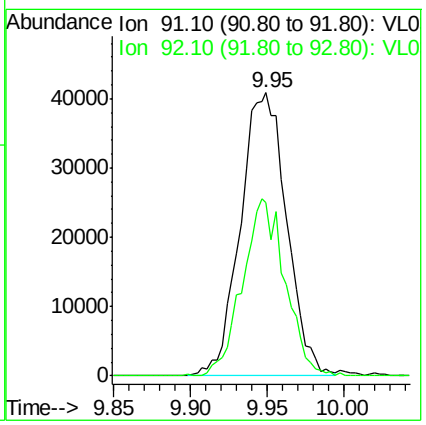


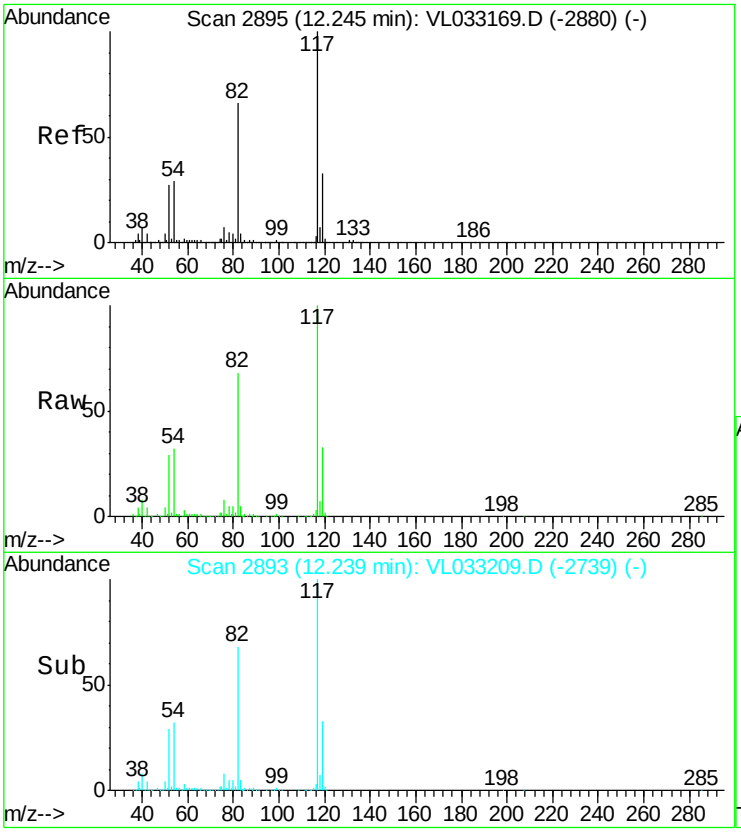


#53
Toluene
Concen: 0.329 ppbv m
RT: 9.95 min Scan# 2181
Delta R.T. -0.00 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 91 Resp: 85507

Ion	Ratio	Lower	Upper
91	100		
92	57.7	48.0	72.0



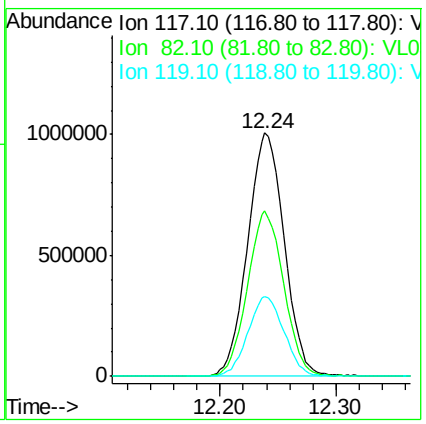


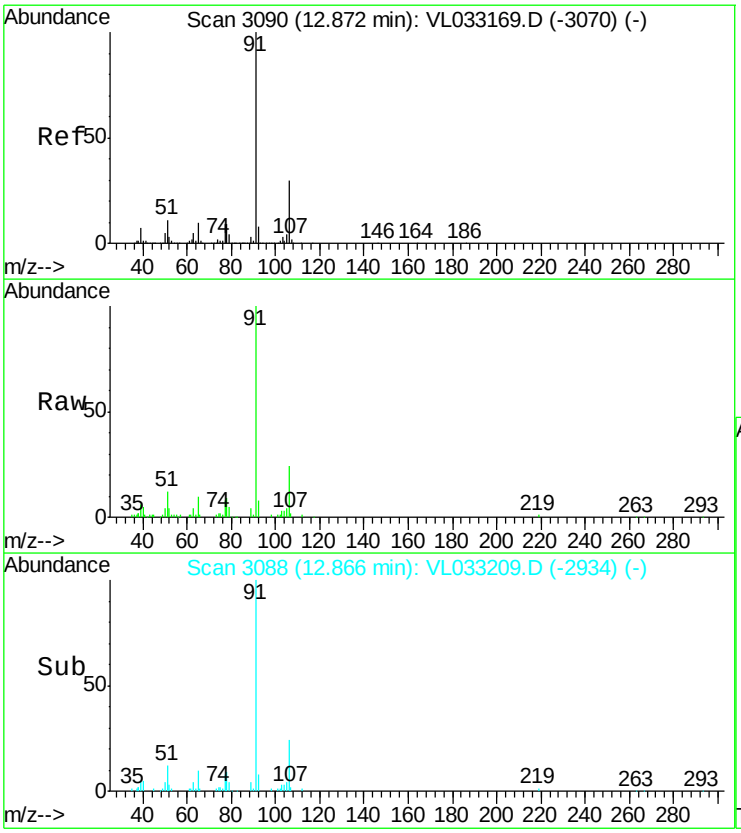
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument : MSVOA_L
ClientSampleId : MID

Tgt Ion:117 Resp: 2208433

Ion	Ratio	Lower	Upper
117	100		
82	67.6	49.5	74.3
119	32.6	24.4	36.6

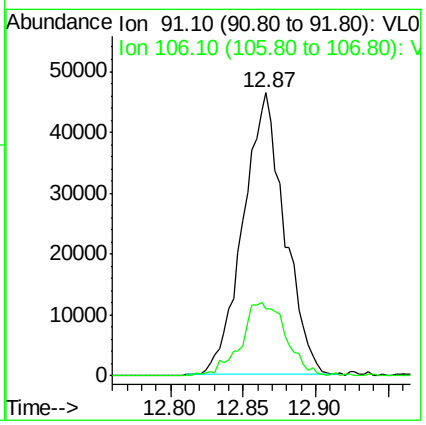


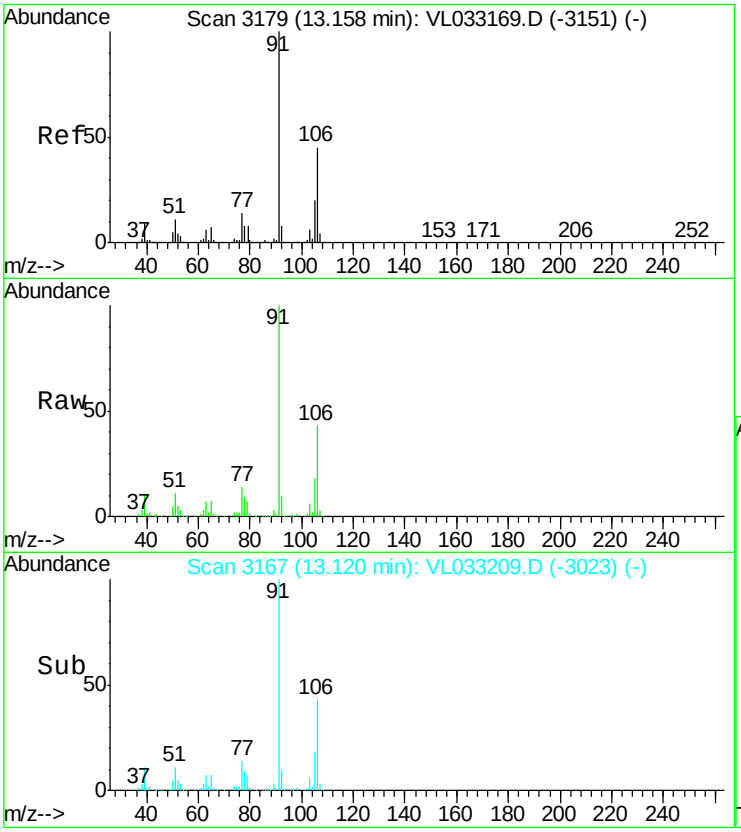


#58
Ethyl Benzene
Concen: 0.258 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 91 Resp: 92074

Ion	Ratio	Lower	Upper
91	100		
106	23.9	23.8	35.8



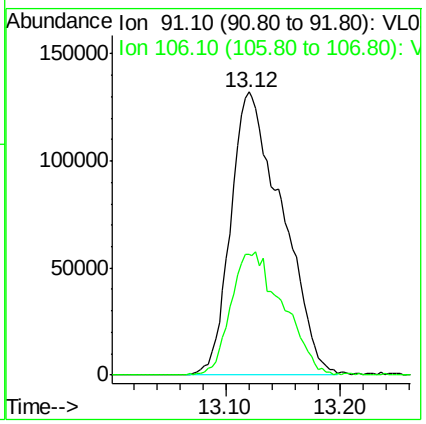


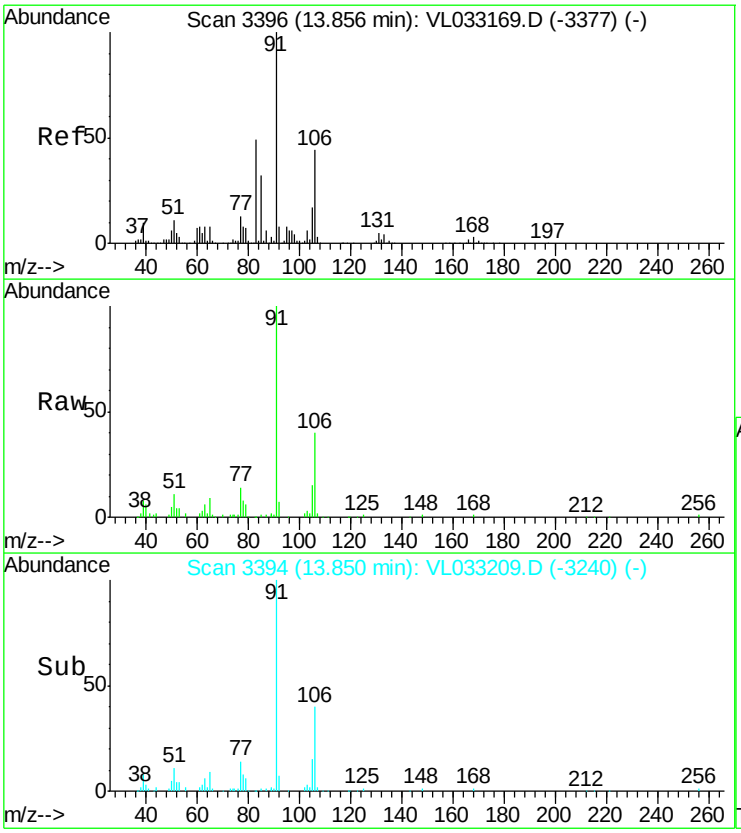
#59
m/p-Xylene
Concen: 1.382 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 91 Resp: 412278

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

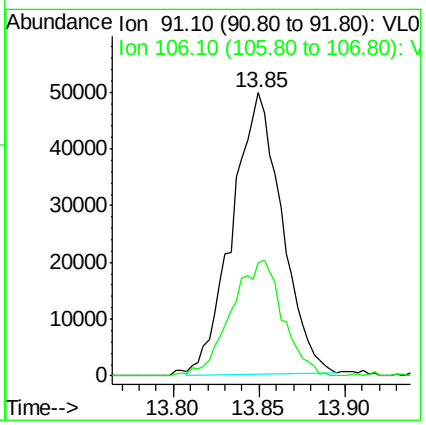


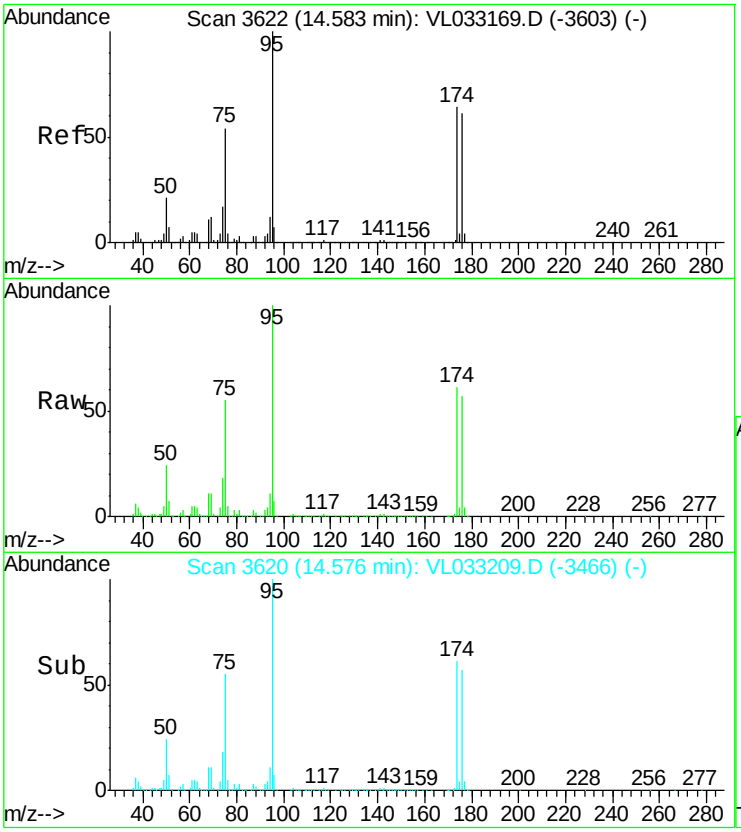


#60
o-Xylene
Concen: 0.343 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion: 91 Resp: 99354

Ion	Ratio	Lower	Upper
91	100		
106	42.8	21.8	65.3



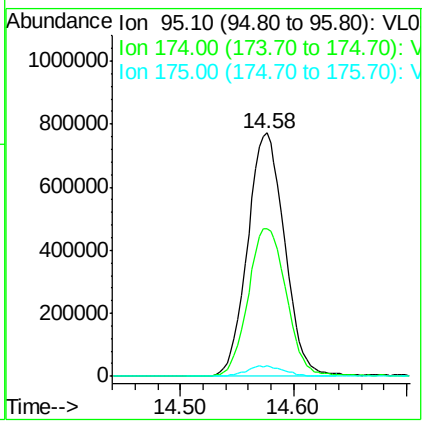


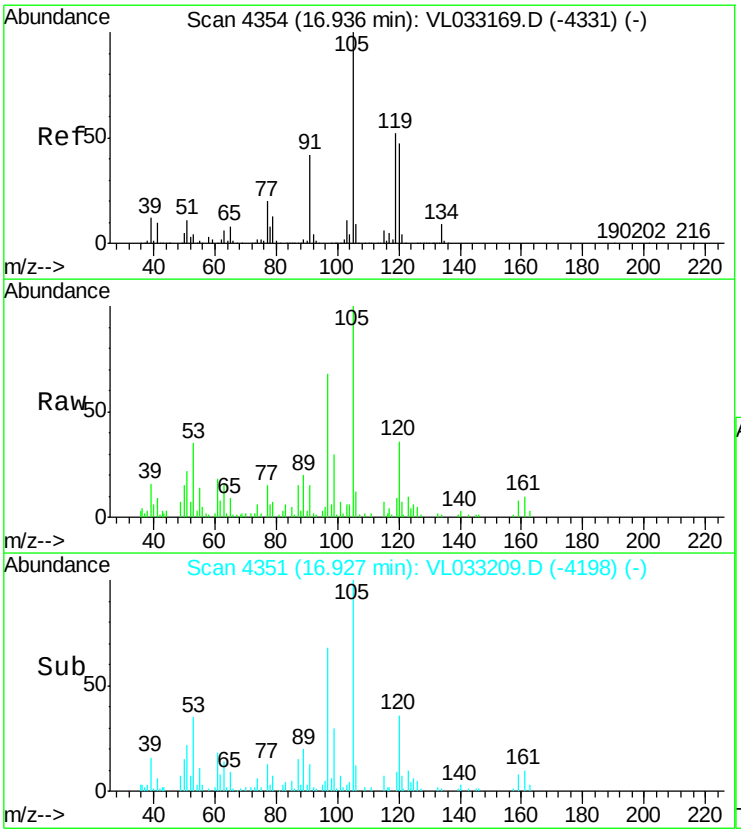
#68
1-Bromo-4-Fluorobenzene
Concen: 10.288 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 95 Resp: 1749840

Ion	Ratio	Lower	Upper
95	100		
174	63.4	51.2	76.8
175	4.4	3.8	5.6





#74
1,2,4-Trimethylbenzene
Concen: 0.133 ppbv
RT: 16.93 min Scan# 4351
Delta R.T. -0.01 min
Lab File: VL033209.D
Acq: 14 Feb 2019 22:16

Tgt Ion:105 Resp: 44047

Ion	Ratio	Lower	Upper
105	100		
120	43.5	37.9	56.9
91	15.0	34.0	51.0#
77	14.7	15.7	23.5#