Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102915\
Data File : VL026273.D
Acq On : 29 Oct 2015 20:23
Operator : SY/AP
Sample : G4169-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SV1

Quant Time: Oct 30 02:28:29 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL102915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 29 14:29:54 2015
QLast Update : Thu Oct 29 14:29:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.69	49	577381	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	8.36	114	1623973	10.00	ppbv		-0.01
55) Chlorobenzene-d5	13.79	117	1614461	10.00	ppbv		-0.01
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	16.33	95	1283039	10.48	ppbv		-0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.66	85	58457	0.47	ppbv		98
3) Chlorodifluoromethane	3.59	51	244719	3.37	ppbv		100
4) Chloromethane	3.77	50	25455	0.61	ppbv		97
5) Vinyl Chloride	3.91	62	7063	0.15	ppbv		93
7) Chloroethane	4.26	64	2347	0.13	ppbv		97
9) Propene	3.62	41	310109	8.86	ppbv		84
10) Heptane	9.38	43	425467	3.61	ppbv		98
11) Trichlorofluoromethane	4.71	101	31373	0.27	ppbv		95
13) Ethanol	4.35	45	35446	6.77	ppbv		93
15) Acetone	4.61	43	8003418	104.69	ppbv		94
17) tert-Butyl alcohol	5.15	59	5802212	105.76	ppbv		98
19) Isopropyl Alcohol	4.79	45	78661	2.40	ppbv	#	24
20) Methylene Chloride	5.18	84	21643	0.65	ppbv	#	76
26) Hexane	6.68	57	343216	4.40	ppbv	#	43
27) Carbon Disulfide	5.42	76	55097	0.59	ppbv	#	71
29) Chloroform	6.79	83	47930	0.41	ppbv		99
30) Cyclohexane	8.31	84	68535	0.89	ppbv	#	1
34) 2-Butanone	6.23	43	639061	6.52	ppbv		99
35) Carbon Tetrachloride	8.20	117	7293	0.06	ppbv	#	84
36) Benzene	8.06	78	1148372	6.68	ppbv		99
37) 1,2-Dichloroethane	7.41	62	73705	0.83	ppbv		99
38) Trichloroethene	9.10	130	1750212	21.20	ppbv		98
41) Tetrahydrofuran	7.15	42	90881	1.60	ppbv		96
50) 4-Methyl-2-Pentanone	10.12	43	79820	0.61	ppbv		99
51) 2-Hexanone	11.65	43	172138	1.44	ppbv	#	97
52) Tetrachloroethene	12.83	164	23763	0.27	ppbv		92
53) Toluene	11.27	91	283166	1.27	ppbv		99
58) Ethyl Benzene	14.45	91	2342363	8.83	ppbv		99
59) m/p-Xylene	14.73	91	328852	1.56	ppbv	#	100
60) o-Xylene	15.53	91	278733	1.27	ppbv		99
61) Styrene	15.35	104	76589	0.82	ppbv		96
62) Isopropylbenzene	16.58	105	2852282	9.56	ppbv		99
67) sec-Butylbenzene	19.50	105	46107	0.12	ppbv		97
69) p-Isopropyltoluene	19.88	119	196664	0.63	ppbv		95
73) 1,3,5-Trimethylbenzene	18.04	105	45142	0.19	ppbv		98
74) 1,2,4-Trimethylbenzene	18.88	105	166931	0.68	ppbv	#	84

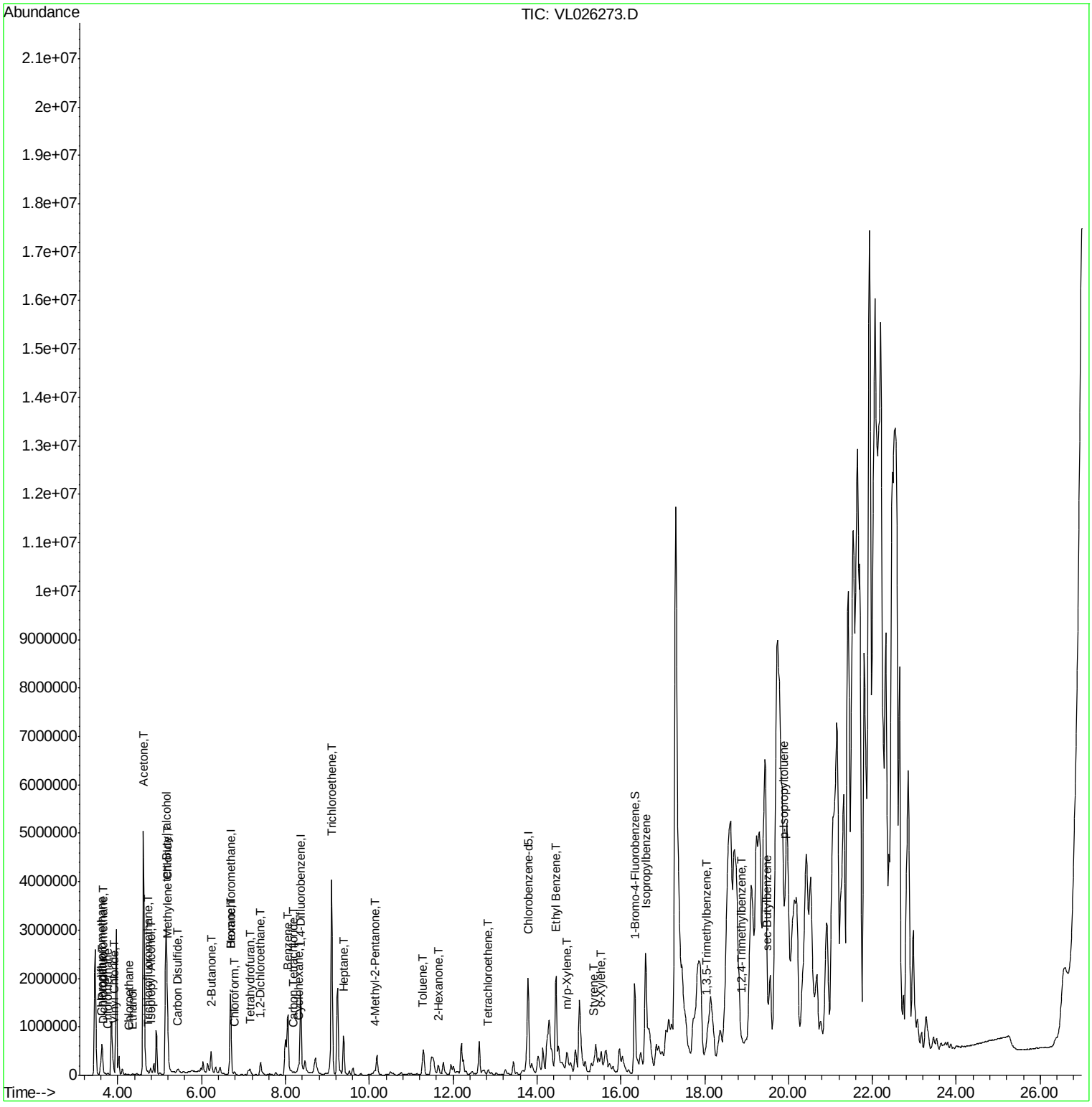
(#) = qualifier out of range (m) = manual integration (+) = signals summed

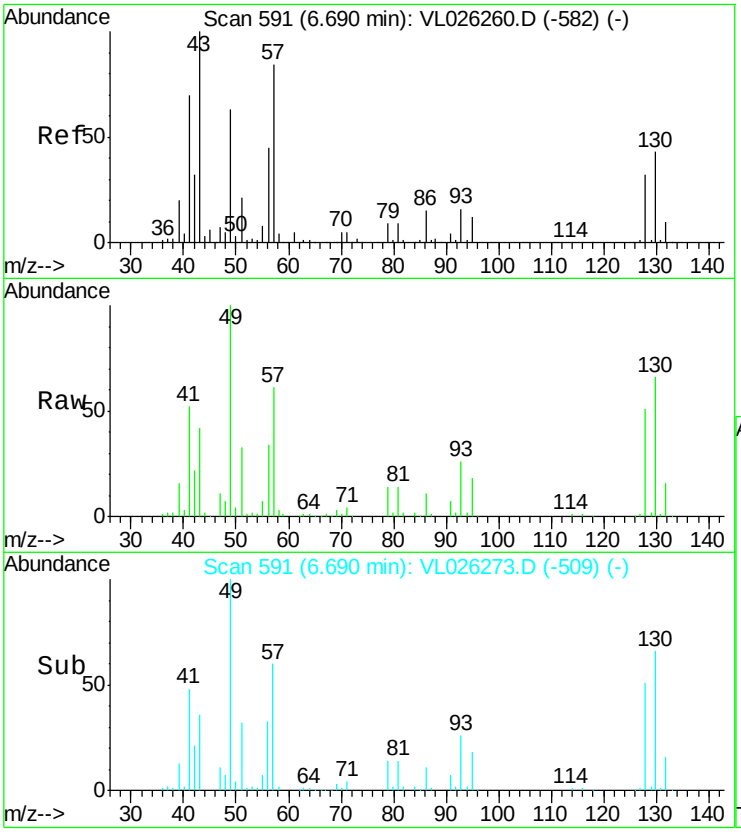
Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102915\
Data File : VL026273.D
Acq On : 29 Oct 2015 20:23
Operator : SY/AP
Sample : G4169-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SV1

Quant Time: Oct 30 02:28:29 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL102915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 29 14:29:54 2015
QLast Update : Thu Oct 29 14:29:54 2015
Response via : Initial Calibration



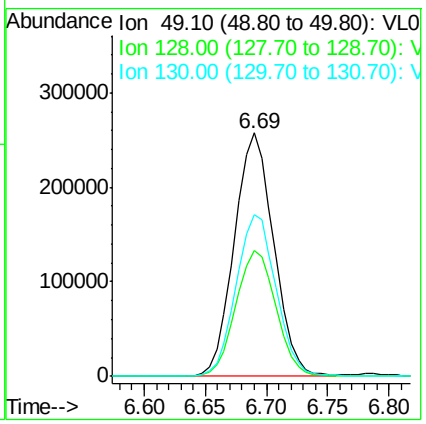


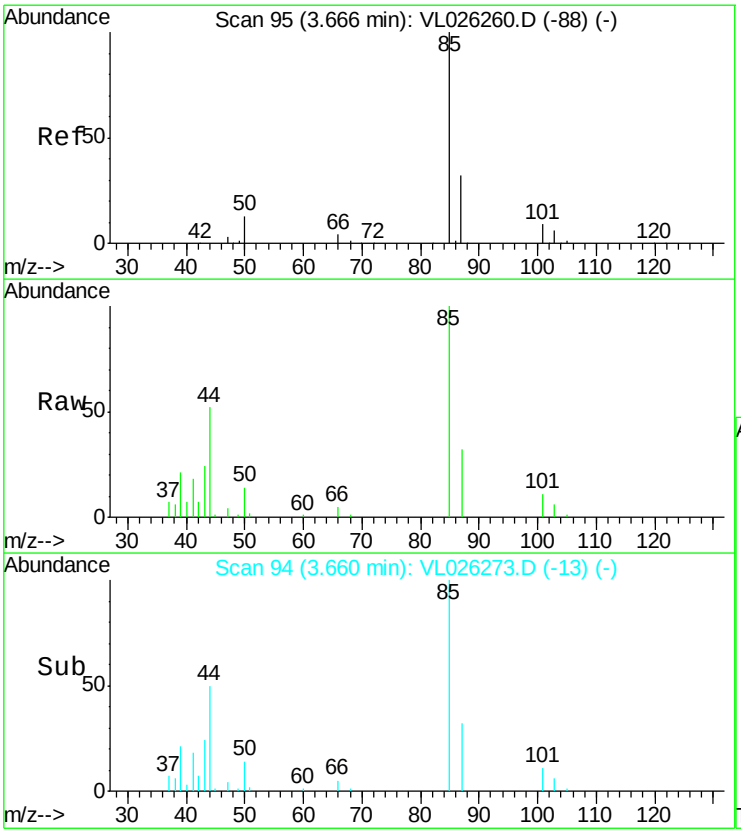
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.69 min Scan# 591
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 577381

Ion	Ratio	Lower	Upper
49	100		
128	52.8	26.7	80.1
130	67.6	34.4	103.2

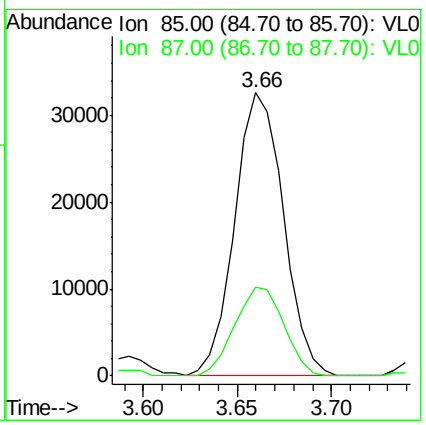


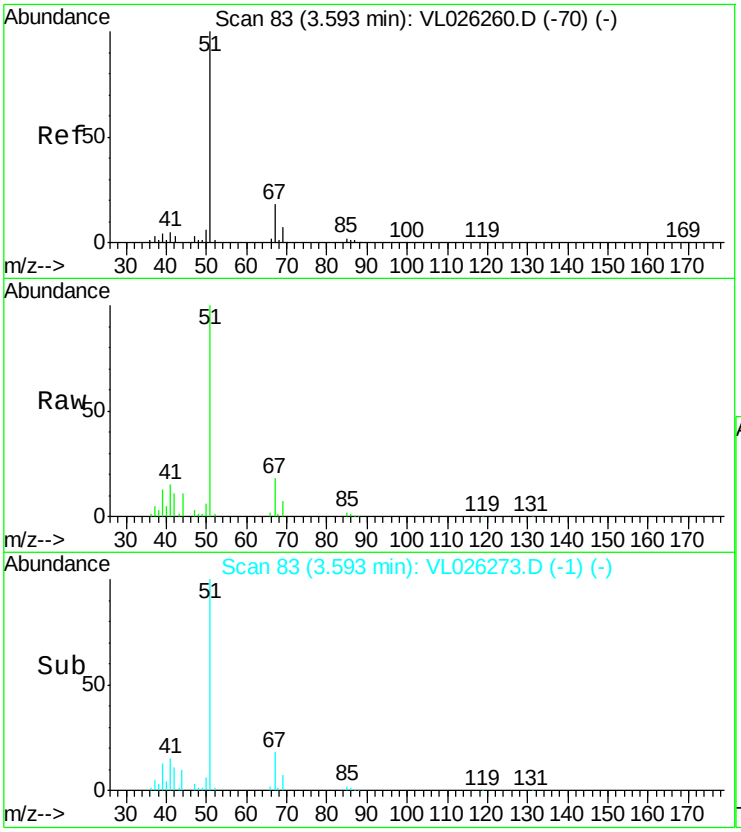


#2
Dichlorodifluoromethane
Concen: 0.47 ppbv
RT: 3.66 min Scan# 94
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 85 Resp: 58457

Ion	Ratio	Lower	Upper
85	100		
87	31.5	25.9	38.9



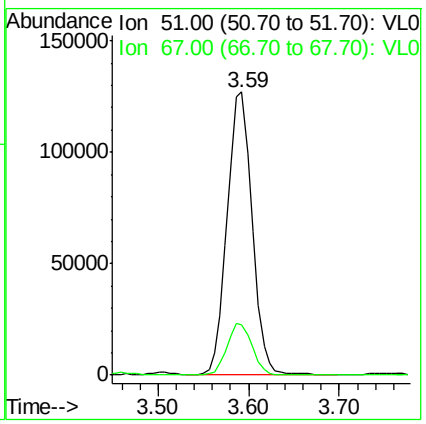


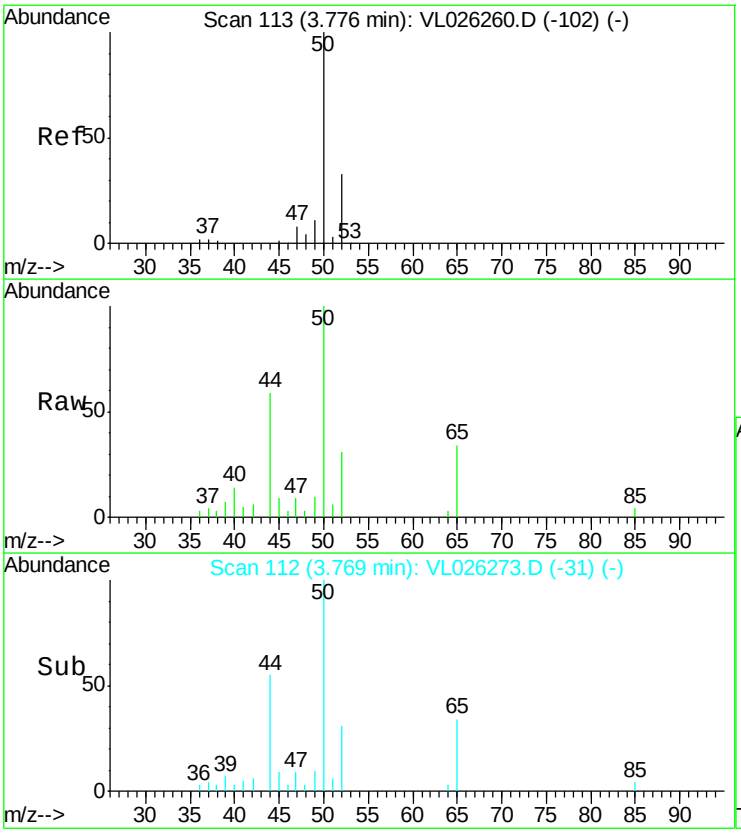
#3
Chlorodifluoromethane
Concen: 3.37 ppbv
RT: 3.59 min Scan# 83
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 244719

Ion	Ratio	Lower	Upper
51	100		
67	18.2	14.5	21.7

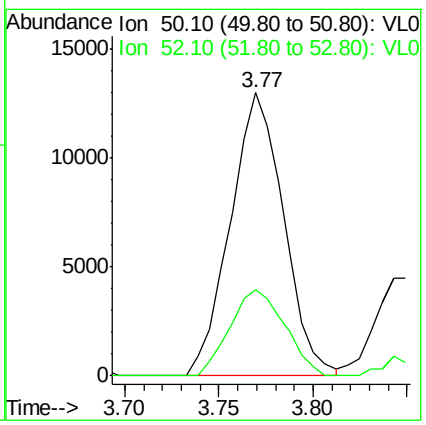


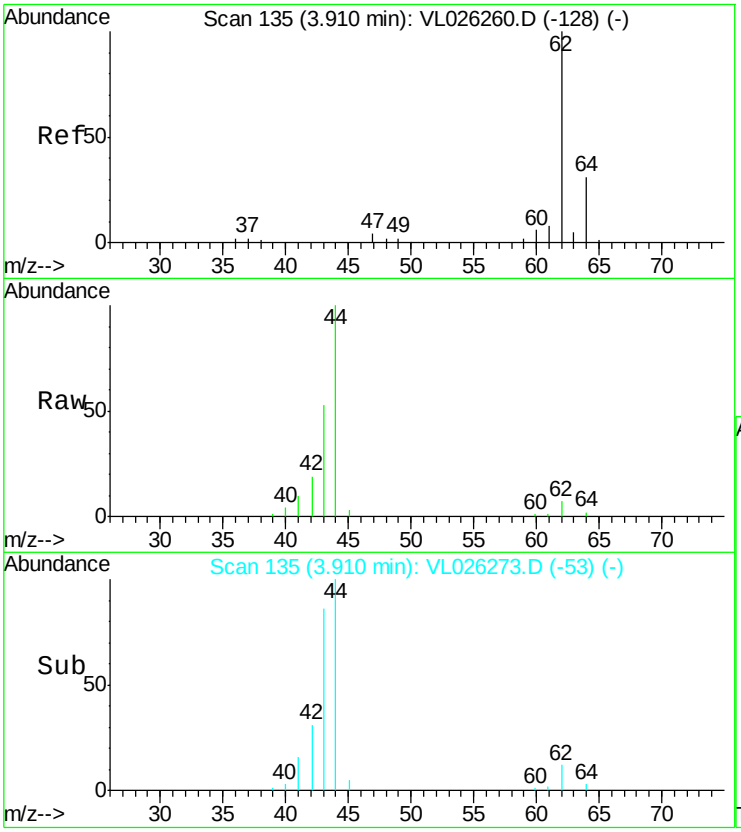


#4
Chloromethane
Concen: 0.61 ppbv
RT: 3.77 min Scan# 112
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 50 Resp: 25455

Ion	Ratio	Lower	Upper
50	100		
52	30.6	26.1	39.1



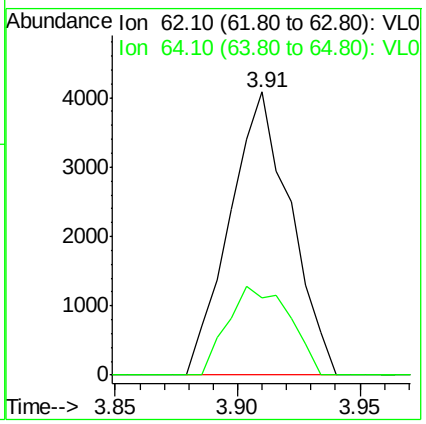


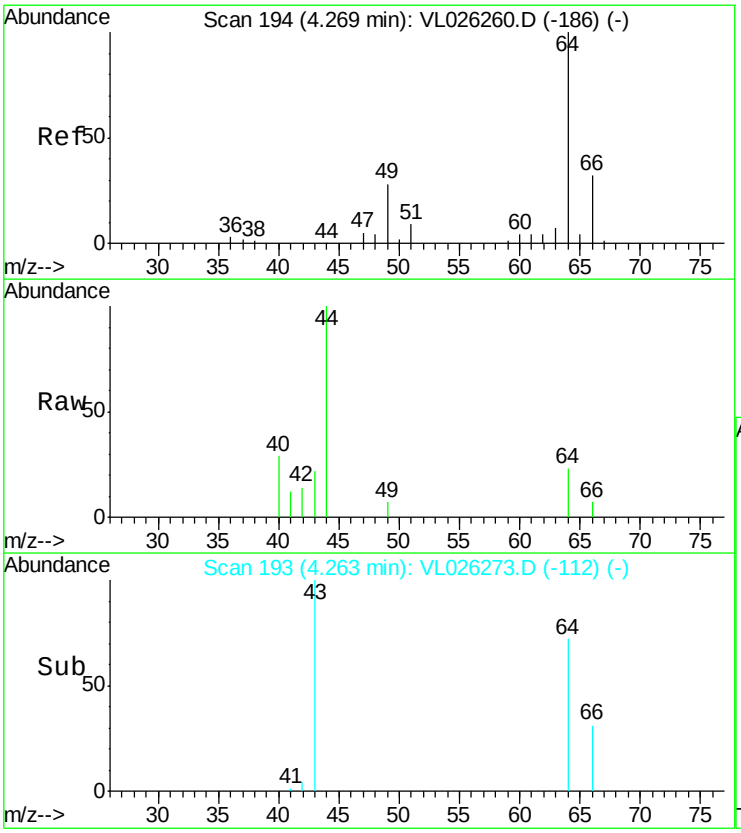
#5
Vinyl Chloride
Concen: 0.15 ppbv
RT: 3.91 min Scan# 135
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion: 62 Resp: 7063

Ion	Ratio	Lower	Upper
62	100		
64	27.4	24.9	37.3

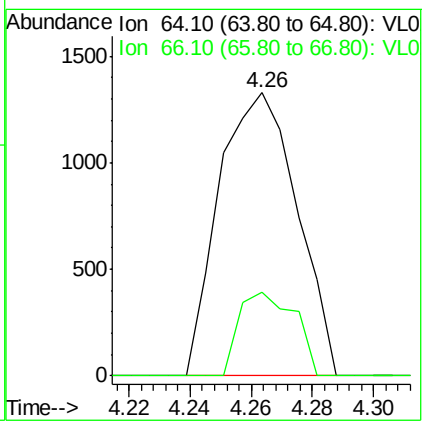


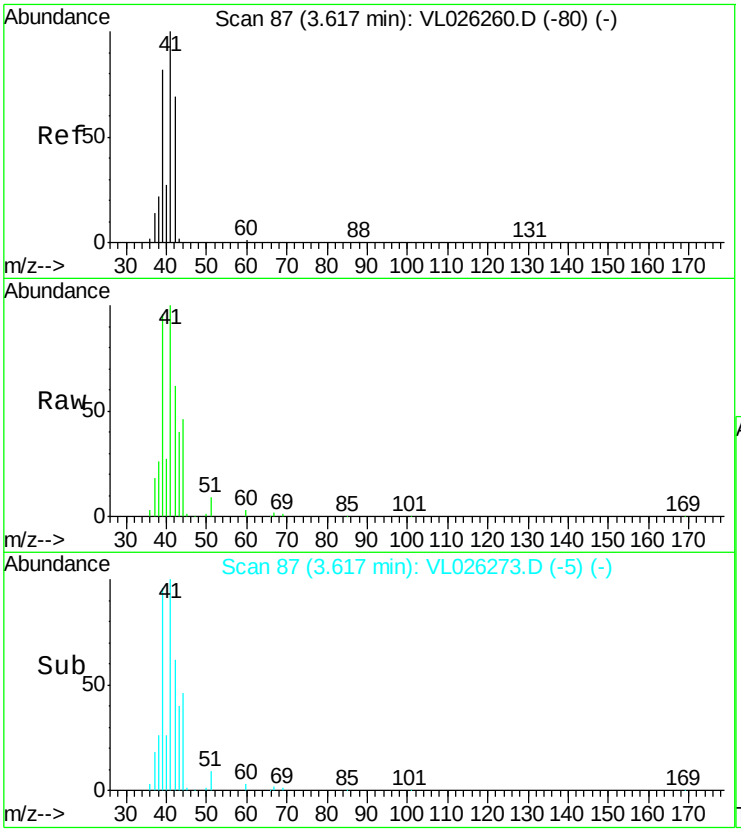


#7
Chloroethane
Concen: 0.13 ppbv
RT: 4.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 64 Resp: 2347

Ion	Ratio	Lower	Upper
64	100		
66	29.6	25.2	37.8

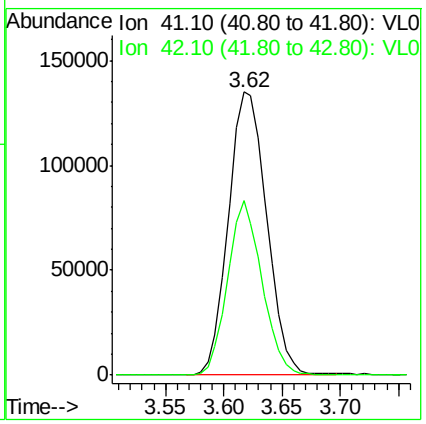




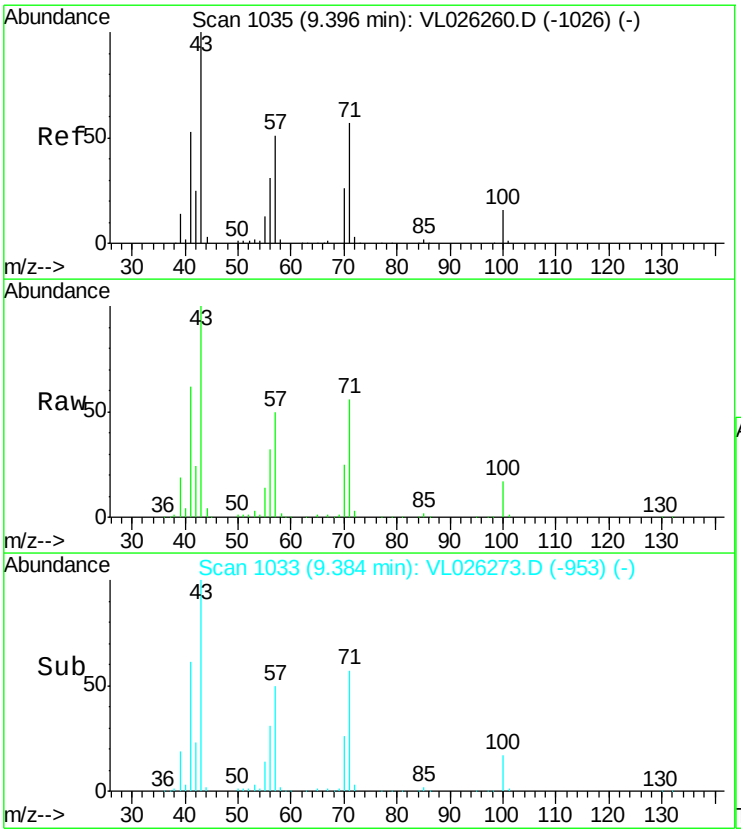
#9
Propene
Concen: 8.86 ppbv
RT: 3.62 min Scan# 87
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 41 Resp: 310109

Ion	Ratio	Lower	Upper
41	100		
42	55.1	54.5	81.7



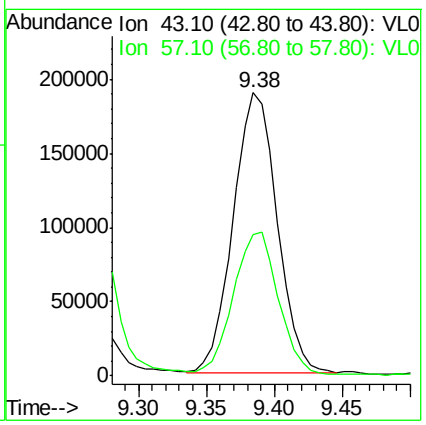
Instrument :
MSVOA_L
ClientSampleId :
SV1

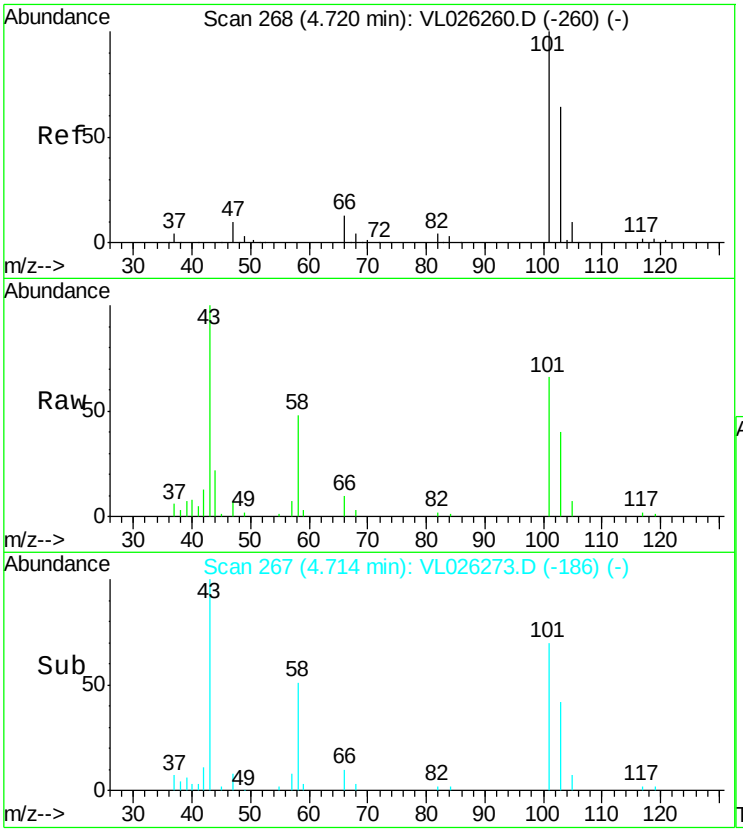


#10
Heptane
Concen: 3.61 ppbv
RT: 9.38 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 43 Resp: 425467

Ion	Ratio	Lower	Upper
43	100		
57	52.9	41.1	61.7

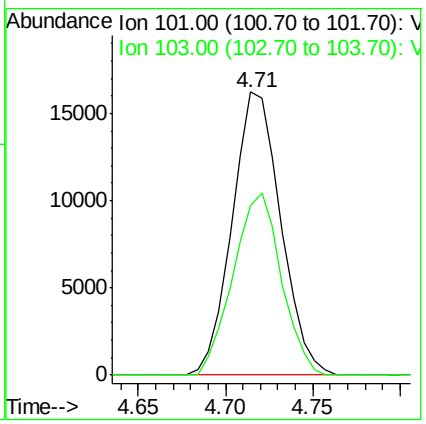




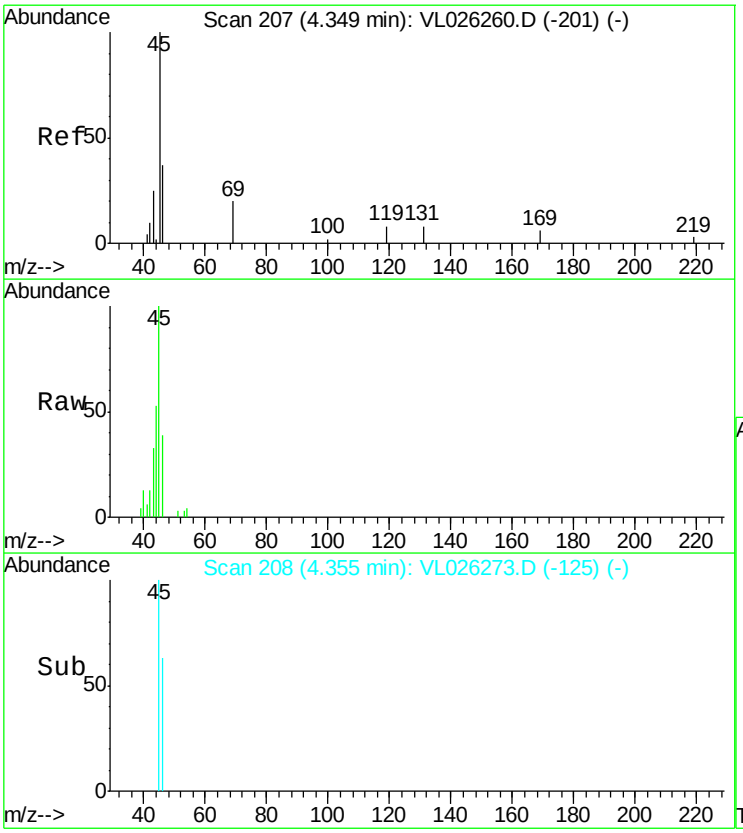
#11
Trichlorofluoromethane
Concen: 0.27 ppbv
RT: 4.71 min Scan# 267
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:101 Resp: 31373

Ion	Ratio	Lower	Upper
101	100		
103	60.1	51.4	77.0



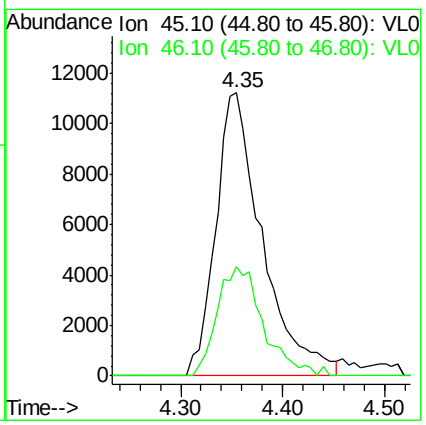
Instrument :
MSVOA_L
ClientSampleId :
SV1

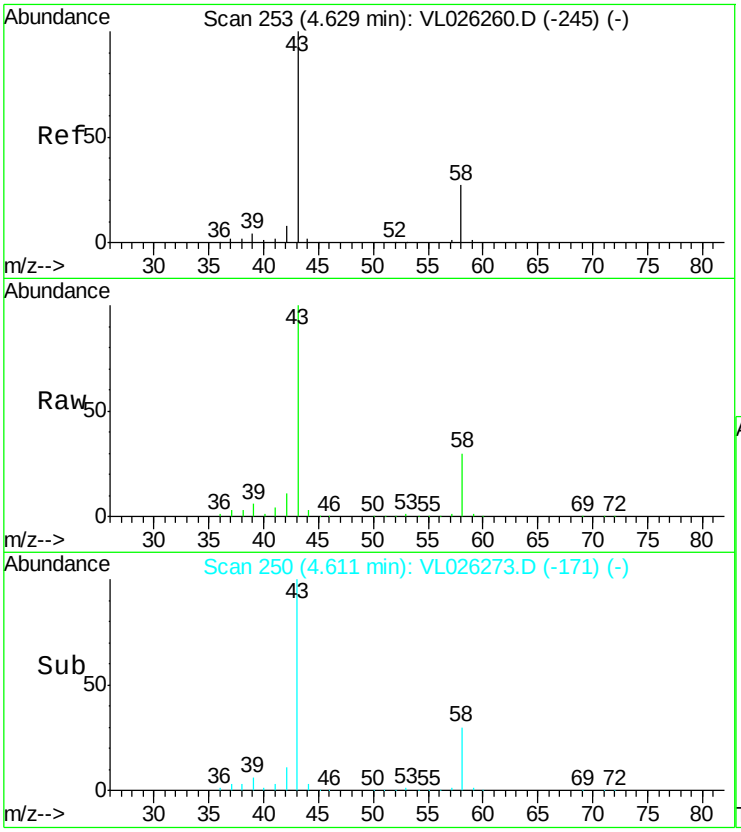


#13
Ethanol
Concen: 6.77 ppbv
RT: 4.35 min Scan# 208
Delta R.T. 0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 45 Resp: 35446

Ion	Ratio	Lower	Upper
45	100		
46	38.4	17.0	68.0



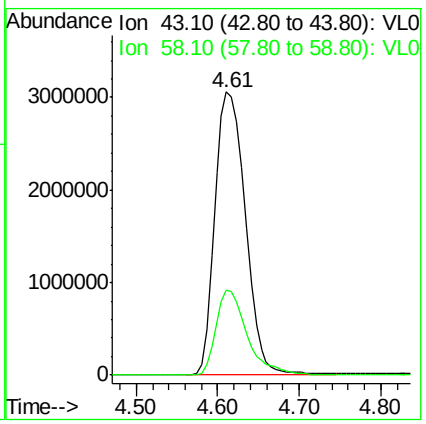


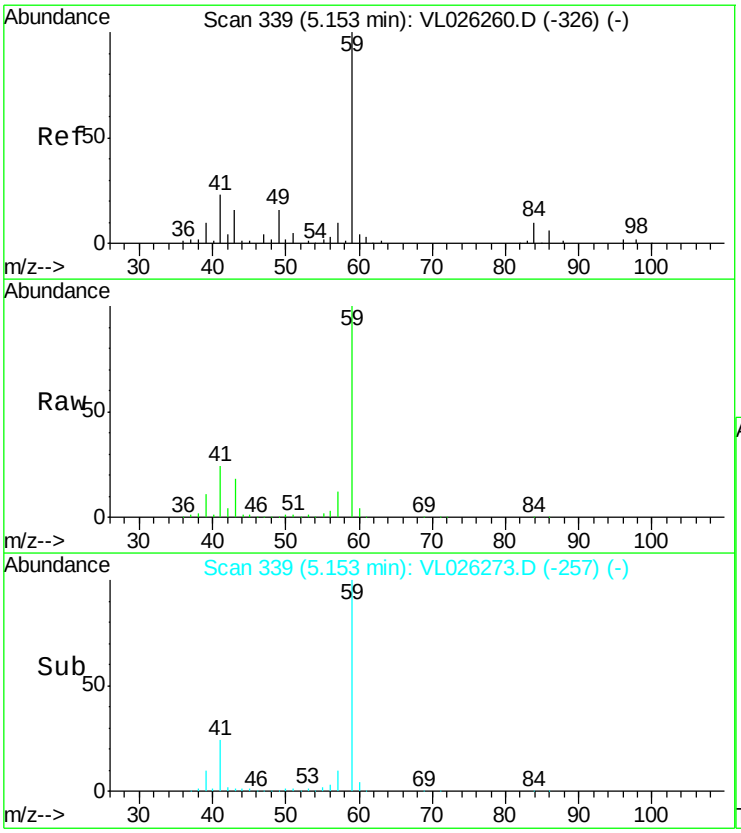
#15
Acetone
Concen: 104.69 ppbv
RT: 4.61 min Scan# 250
Delta R.T. -0.02 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 8003418

Ion	Ratio	Lower	Upper
43	100		
58	31.2	22.3	33.5

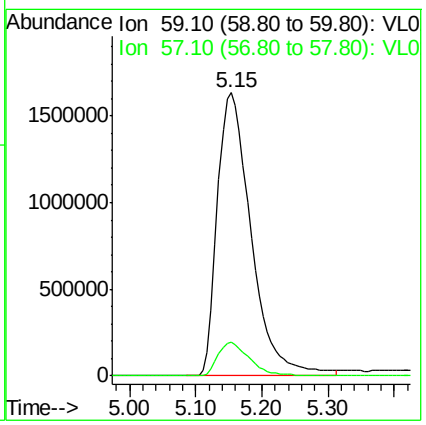


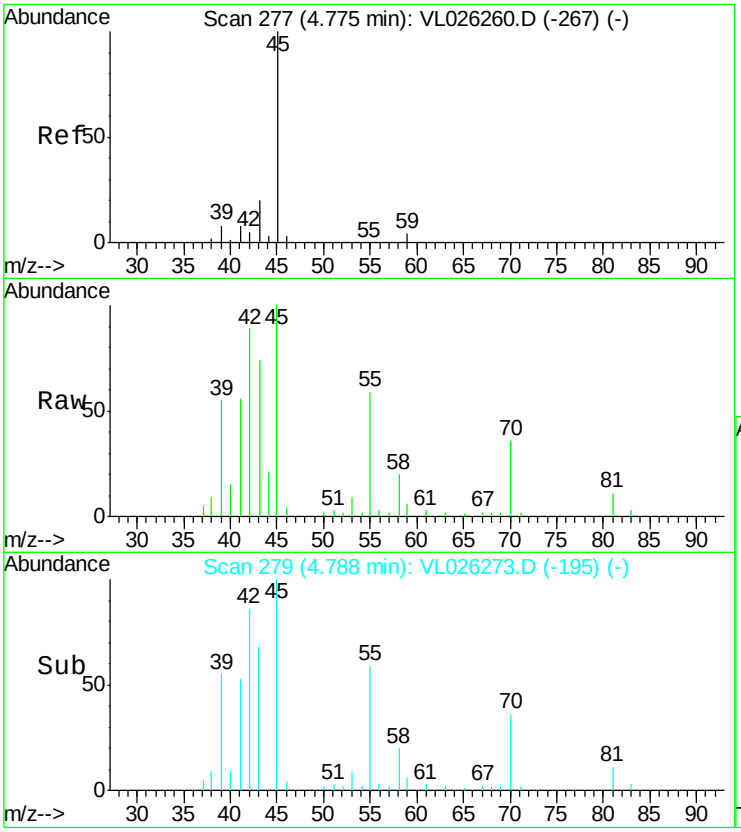


#17
tert-Butyl alcohol
Concen: 105.76 ppbv
RT: 5.15 min Scan# 339
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 59 Resp: 5802212

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.7	13.1



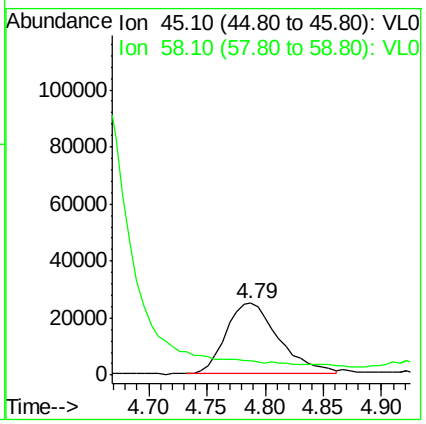


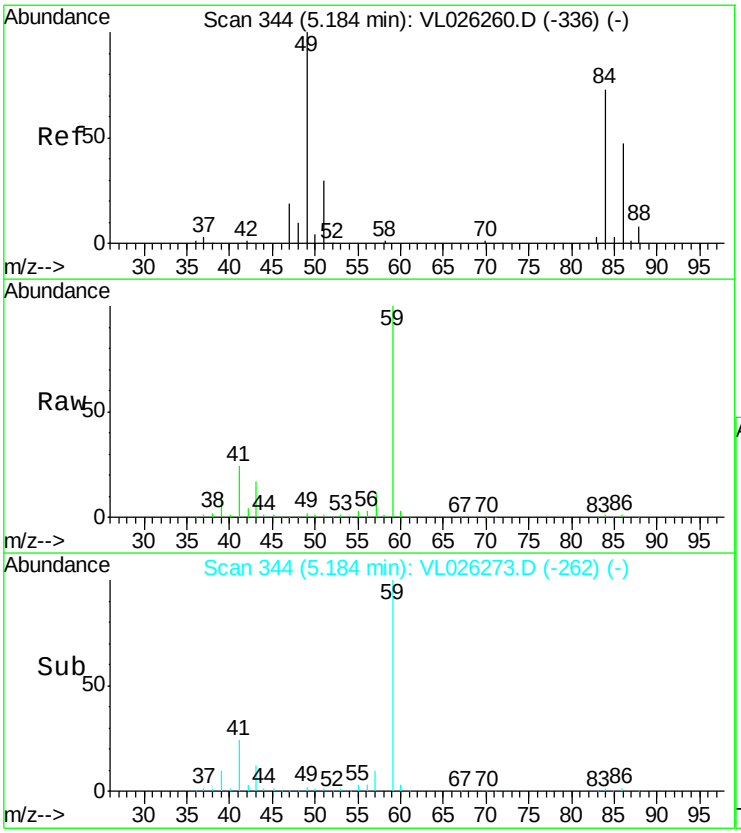
#19
Isopropyl Alcohol
Concen: 2.40 ppbv
RT: 4.79 min Scan# 279
Delta R.T. 0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 78661

Ion	Ratio	Lower	Upper
45	100		
58	0.0	43.8	65.8#

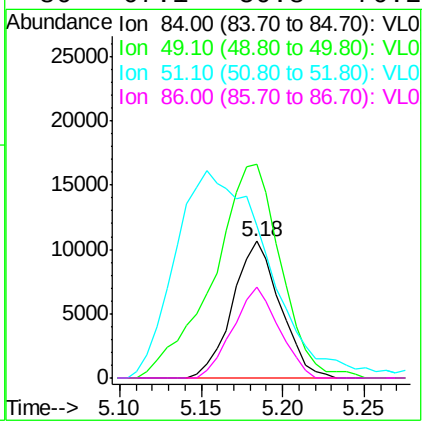


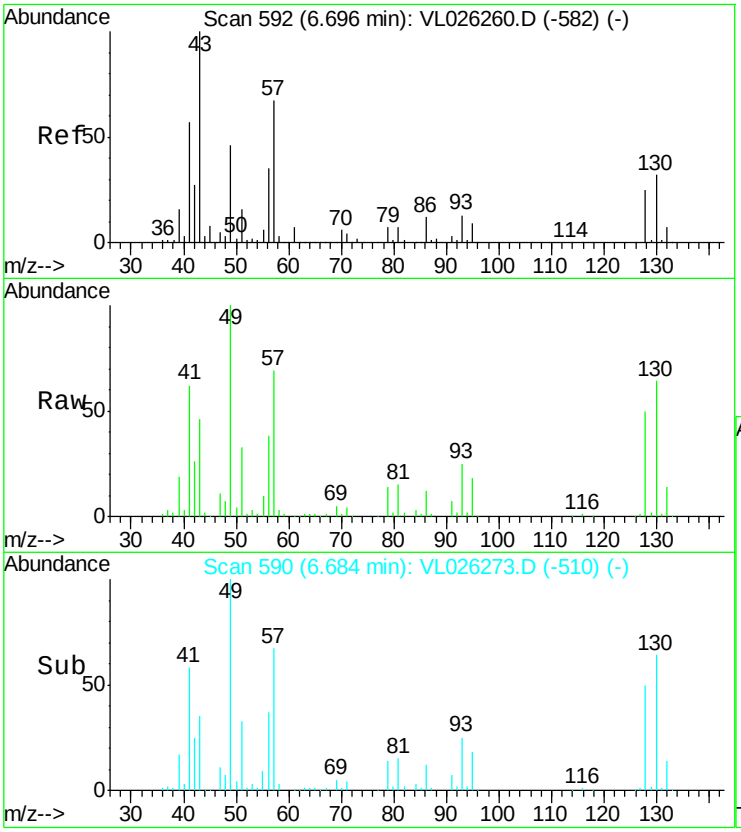


#20
Methylene Chloride
Concen: 0.65 ppbv
RT: 5.18 min Scan# 344
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 84 Resp: 21643

Ion	Ratio	Lower	Upper
84	100		
49	151.9	109.0	163.4
51	98.6	32.8	49.2#
86	67.1	50.8	76.2



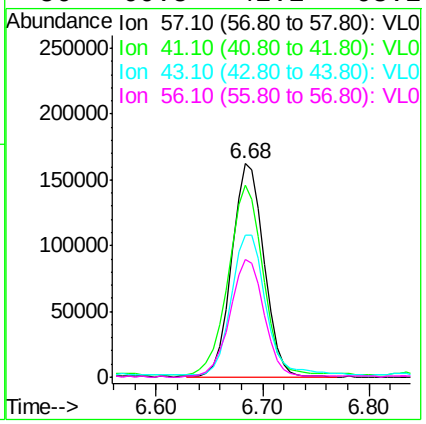


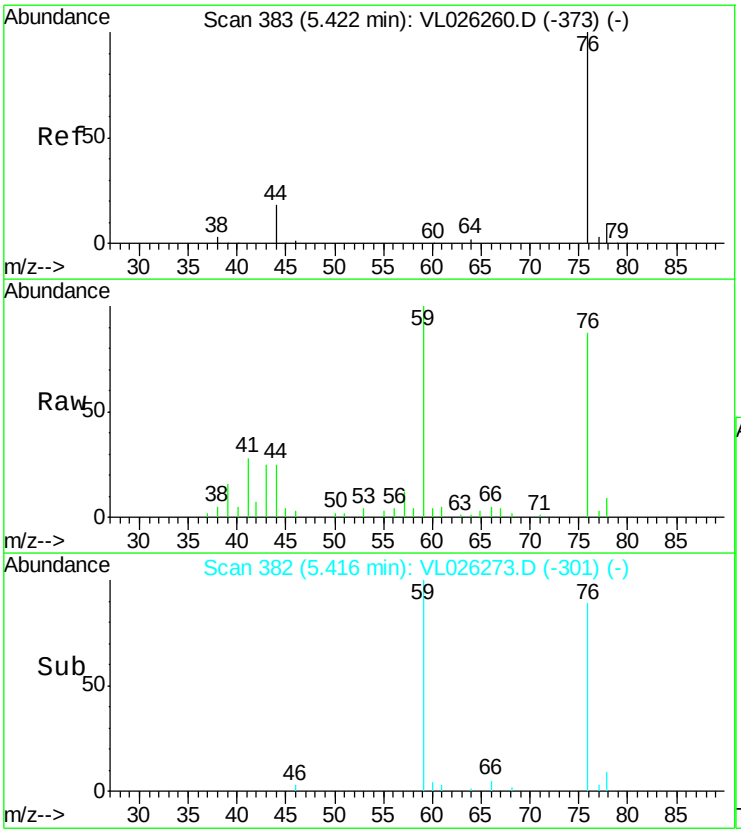
#26
Hexane
Concen: 4.40 ppbv
RT: 6.68 min Scan# 590
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion: 57 Resp: 343216

Ion	Ratio	Lower	Upper
57	100		
41	96.1	67.4	101.2
43	71.8	163.9	245.9#
56	60.5	42.2	63.2

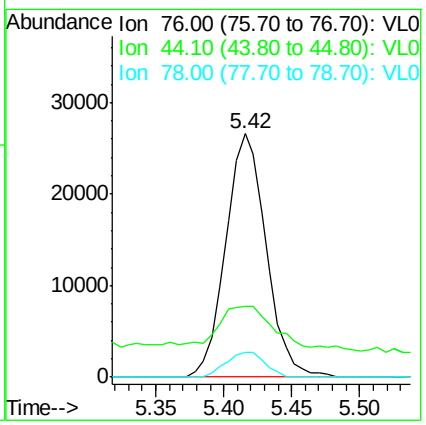


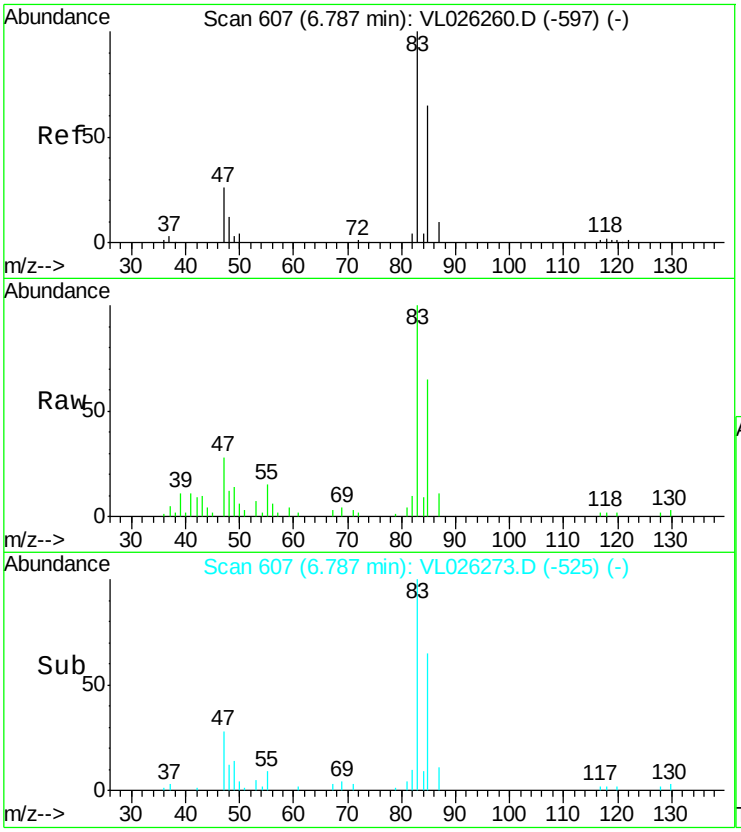


#27
Carbon Disulfide
Concen: 0.59 ppbv
RT: 5.42 min Scan# 382
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 76 Resp: 55097

Ion	Ratio	Lower	Upper
76	100		
44	36.7	14.1	21.1#
78	9.8	7.4	11.0



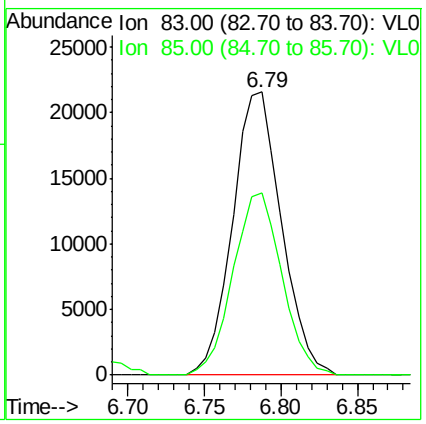


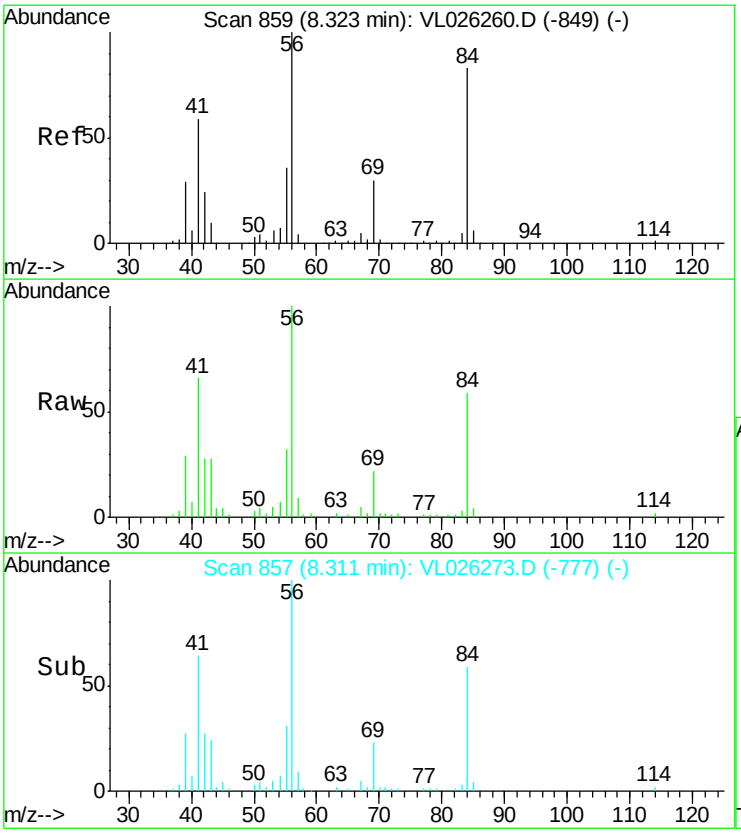
#29
Chloroform
Concen: 0.41 ppbv
RT: 6.79 min Scan# 607
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 83 Resp: 47930

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.0	78.0

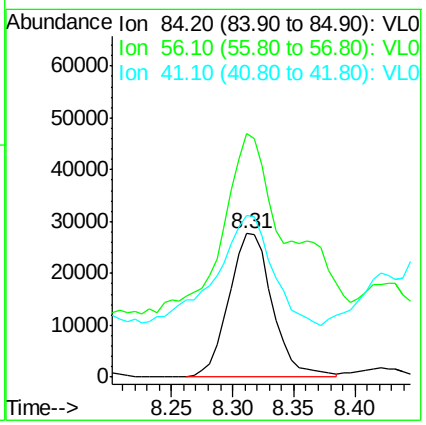


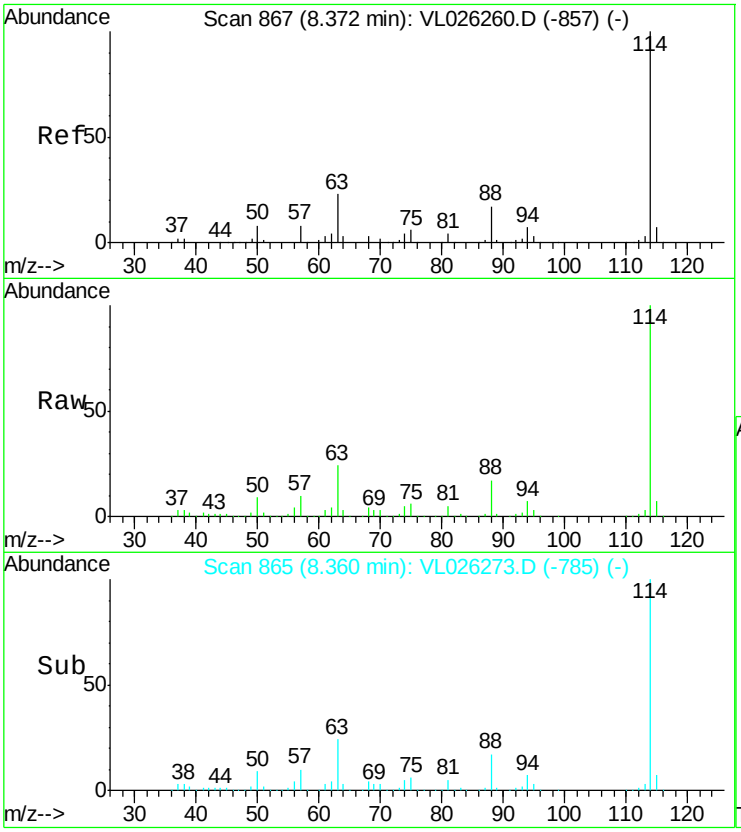


#30
Cyclohexane
Concen: 0.89 ppbv
RT: 8.31 min Scan# 857
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 84 Resp: 68535

Ion	Ratio	Lower	Upper
84	100		
56	322.1	99.6	149.4#
41	145.0	56.7	85.1#



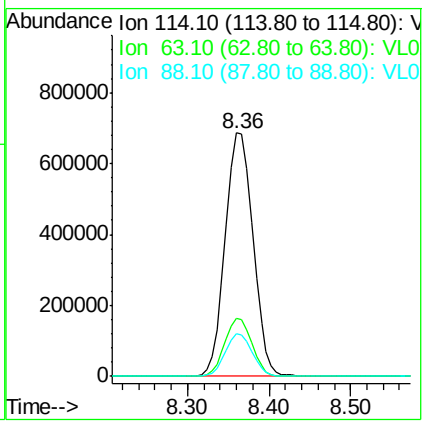


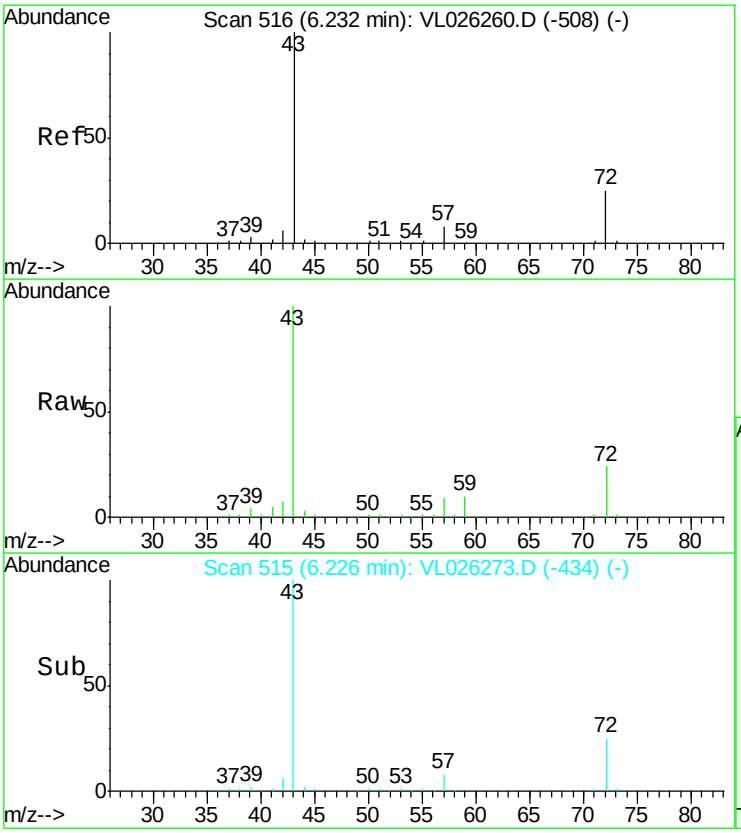
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.36 min Scan# 865
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:114 Resp: 1623973

Ion	Ratio	Lower	Upper
114	100		
63	23.3	18.6	28.0
88	17.0	13.4	20.2

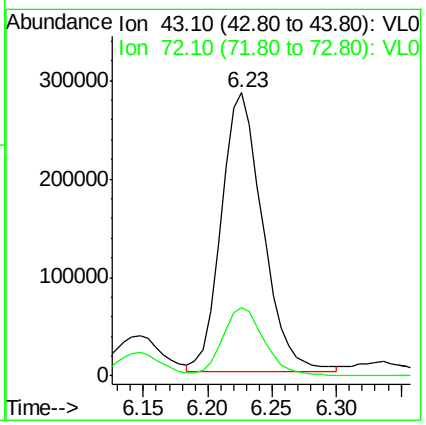


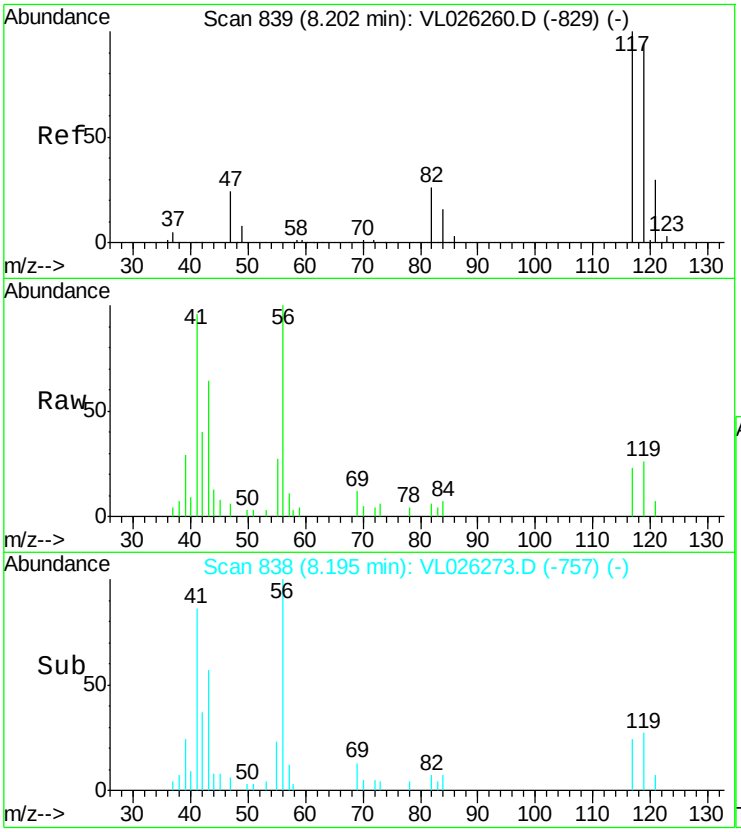


#34
2-Butanone
Concen: 6.52 ppbv
RT: 6.23 min Scan# 515
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 43 Resp: 639061

Ion	Ratio	Lower	Upper
43	100		
72	25.5	19.9	29.9



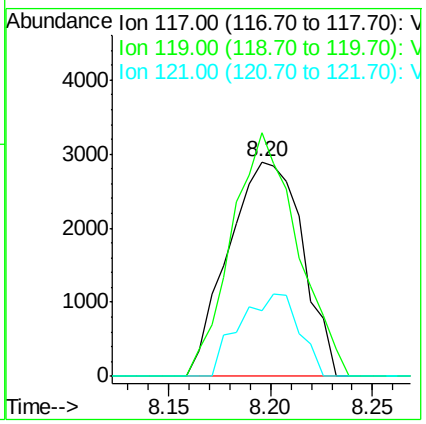


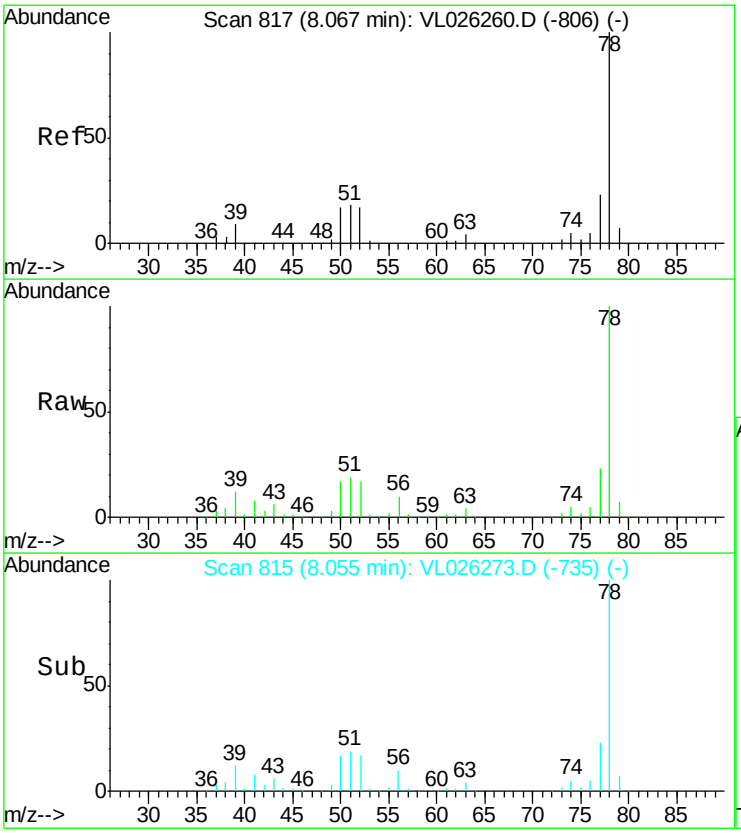
#35
Carbon Tetrachloride
Concen: 0.06 ppbv
RT: 8.20 min Scan# 838
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:117 Resp: 7293

Ion	Ratio	Lower	Upper
117	100		
119	113.6	75.2	112.8#
121	30.7	24.2	36.2

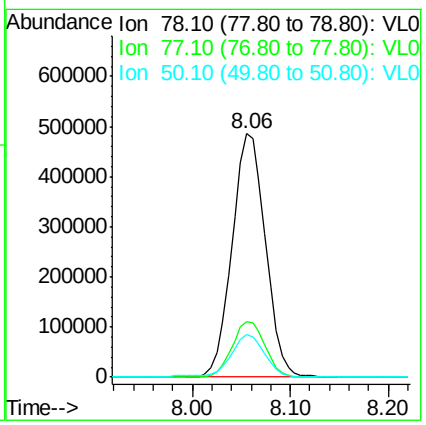


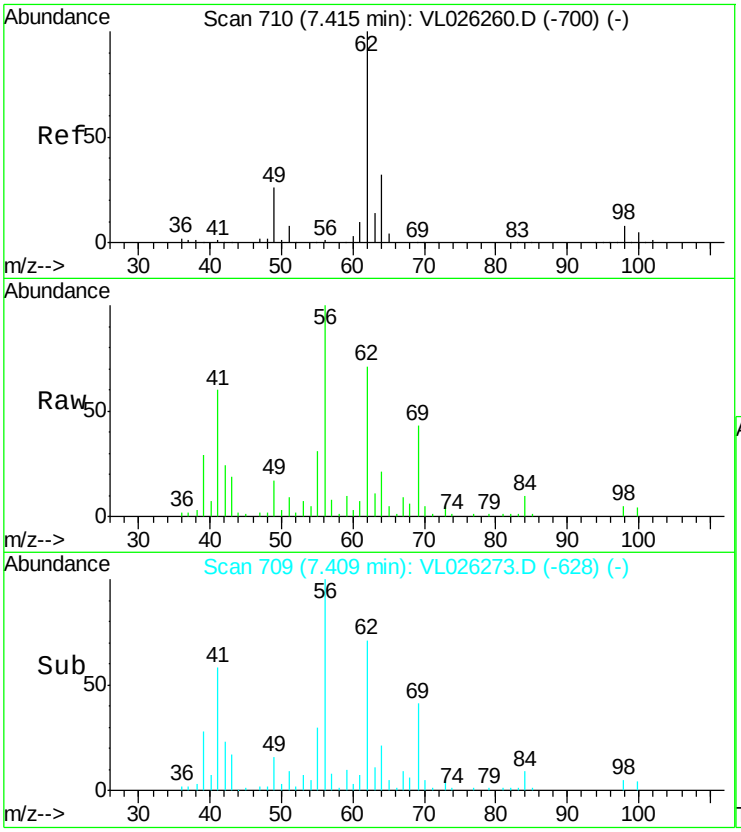


#36
Benzene
Concen: 6.68 ppbv
RT: 8.06 min Scan# 815
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 78 Resp: 1148372

Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.0	27.0
50	17.3	13.3	19.9



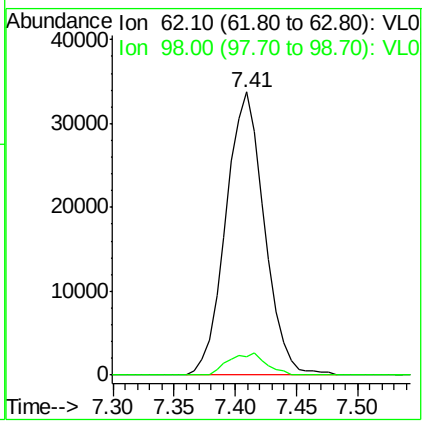


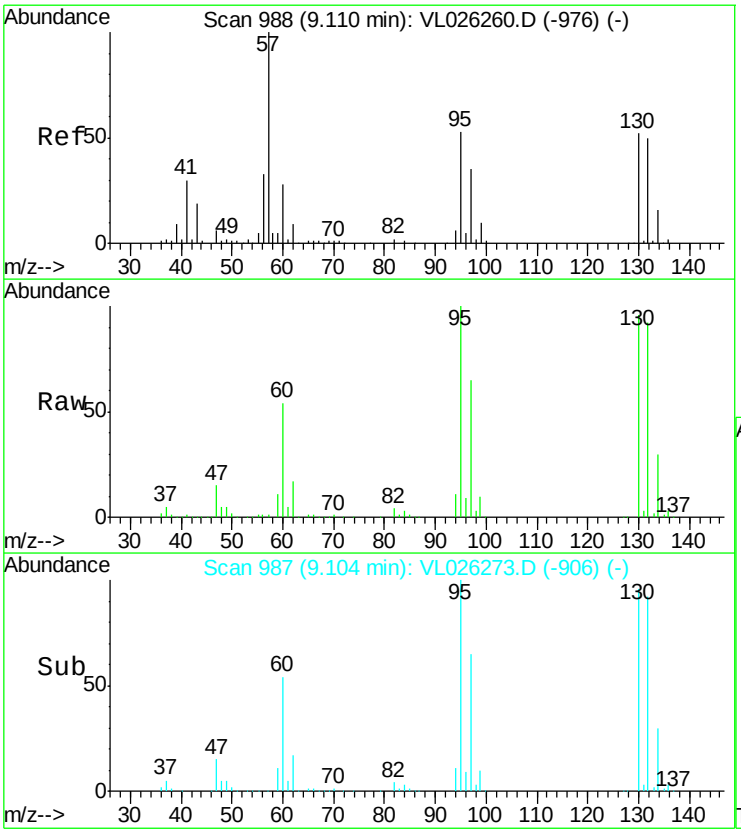
#37
1,2-Dichloroethane
Concen: 0.83 ppbv
RT: 7.41 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 62 Resp: 73705

Ion	Ratio	Lower	Upper
62	100		
98	7.6	6.3	9.5

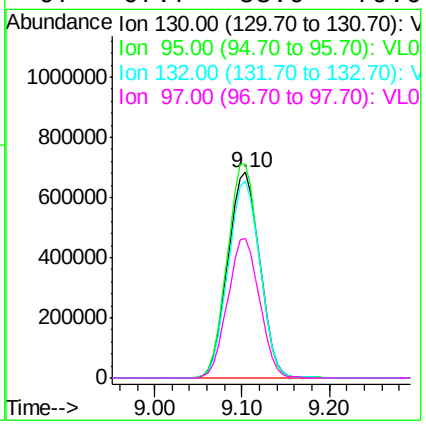


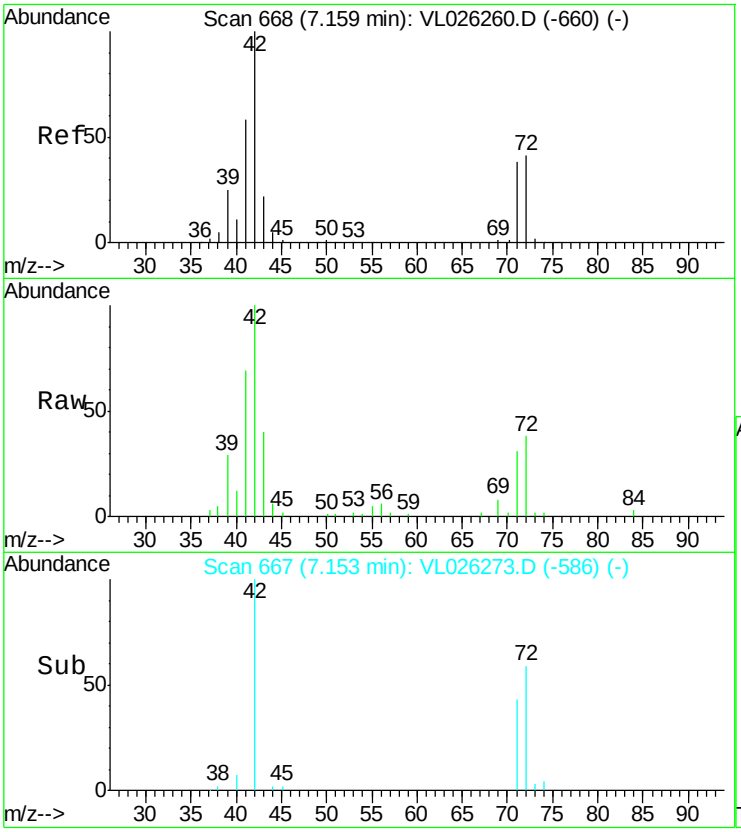


#38
Trichloroethene
Concen: 21.20 ppbv
RT: 9.10 min Scan# 987
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:130 Resp: 1750212

Ion	Ratio	Lower	Upper
130	100		
95	103.6	80.8	121.2
132	95.9	76.2	114.2
97	67.7	53.0	79.6



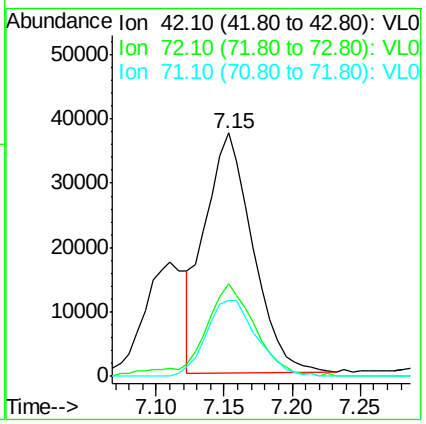


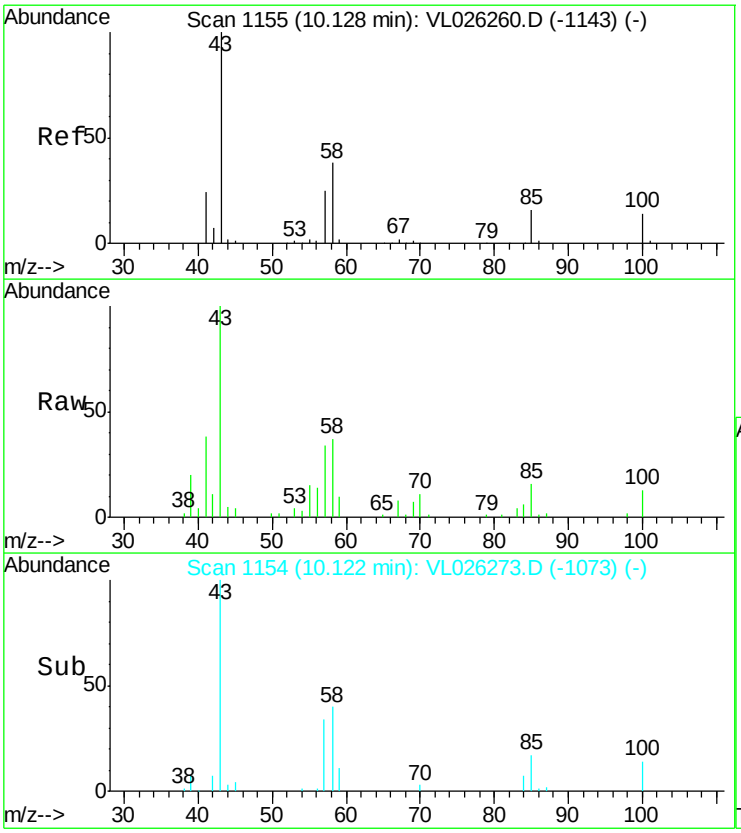
#41
Tetrahydrofuran
Concen: 1.60 ppbv
RT: 7.15 min Scan# 667
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 42 Resp: 90881

Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.2	48.4
71	33.5	30.4	45.6

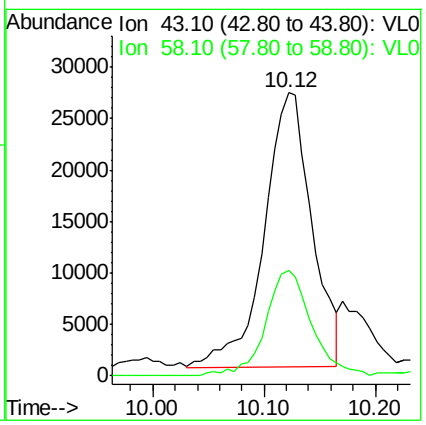


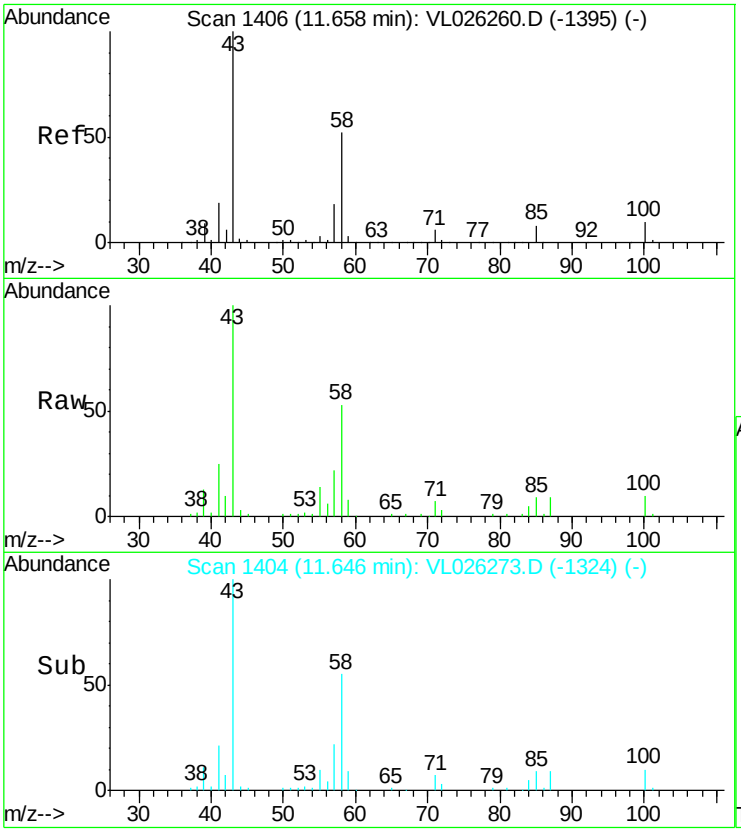


#50
4-Methyl-2-Pentanone
Concen: 0.61 ppbv
RT: 10.12 min Scan# 1154
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 43 Resp: 79820

Ion	Ratio	Lower	Upper
43	100		
58	38.8	30.5	45.7



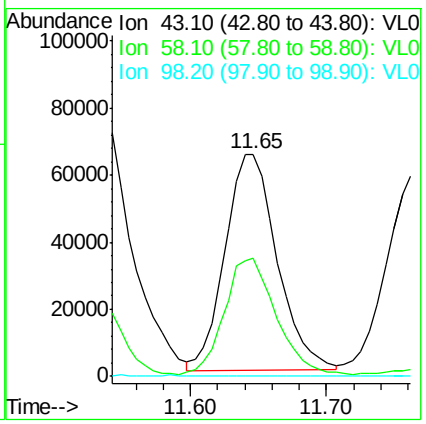


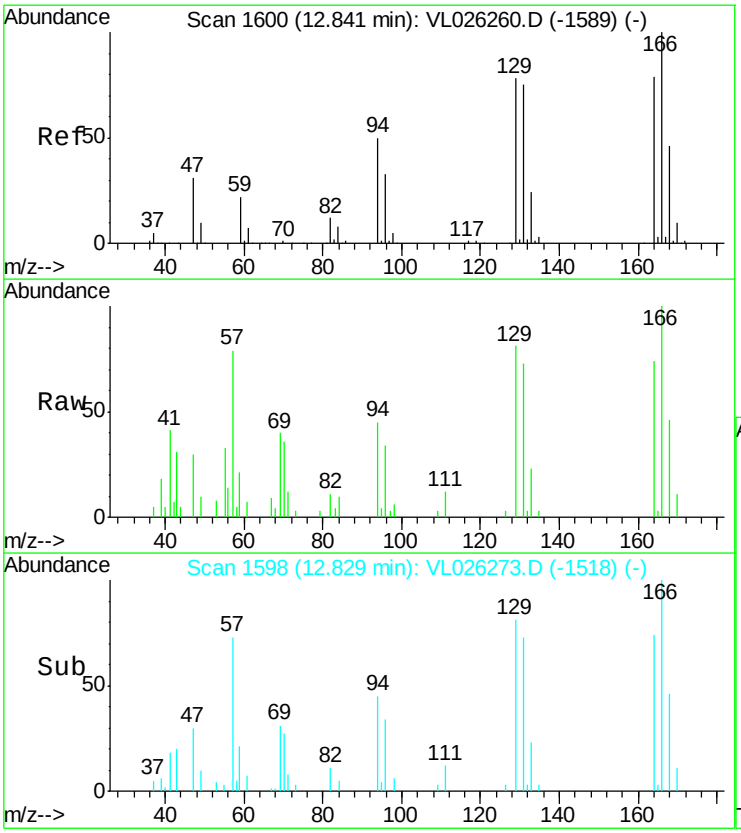
#51
2-Hexanone
Concen: 1.44 ppbv
RT: 11.65 min Scan# 1404
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 172138

Ion	Ratio	Lower	Upper
43	100		
58	55.7	42.7	64.1
98	0.0	0.0	0.0

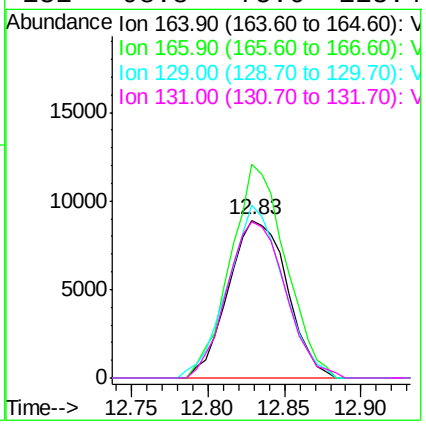


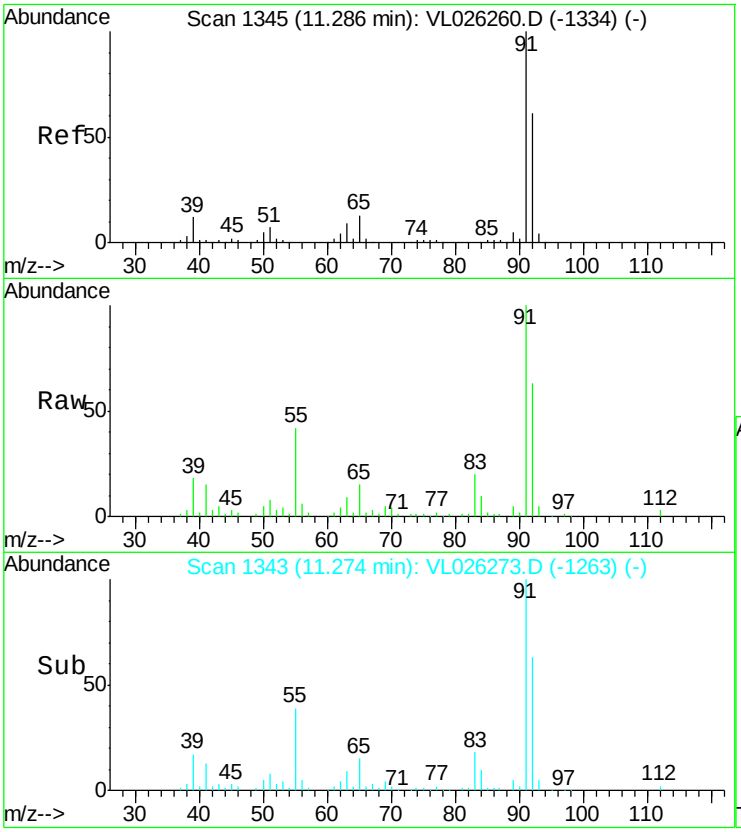


#52
Tetrachloroethene
Concen: 0.27 ppbv
RT: 12.83 min Scan# 1598
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:164 Resp: 23763

Ion	Ratio	Lower	Upper
164	100		
166	135.4	101.4	152.0
129	109.9	78.8	118.2
131	98.8	75.6	113.4



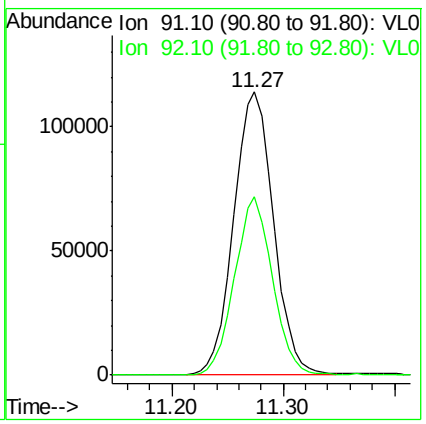


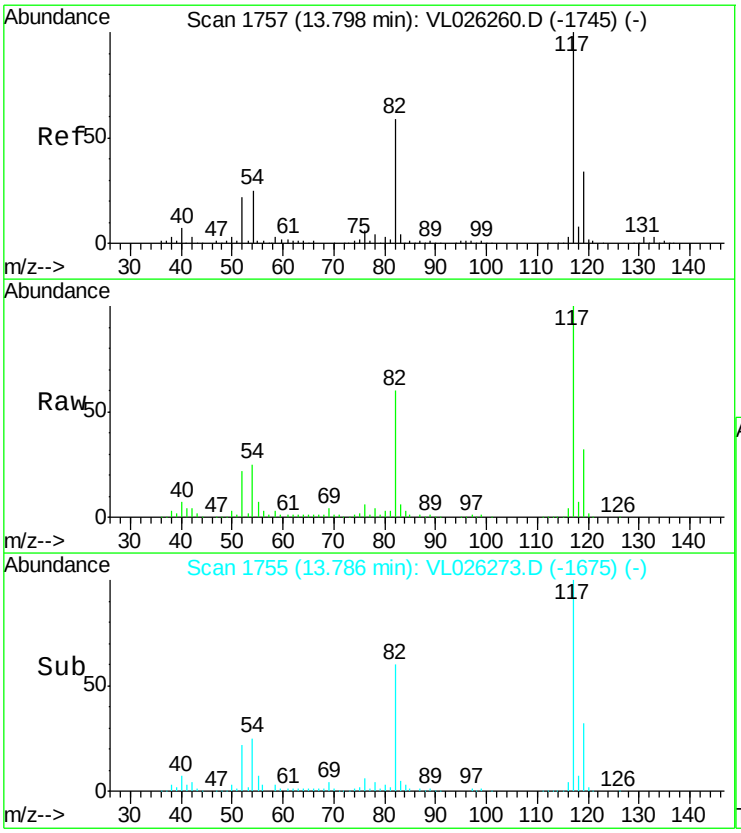
#53
Toluene
Concen: 1.27 ppbv
RT: 11.27 min Scan# 1343
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion: 91 Resp: 283166

Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.6	73.0

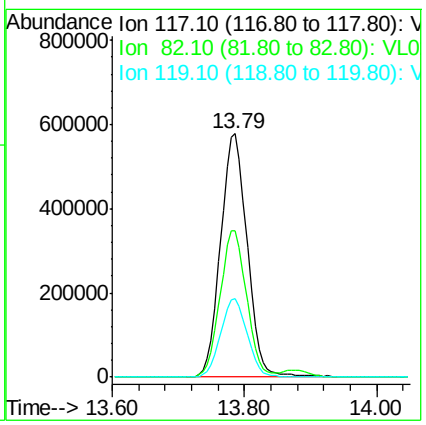


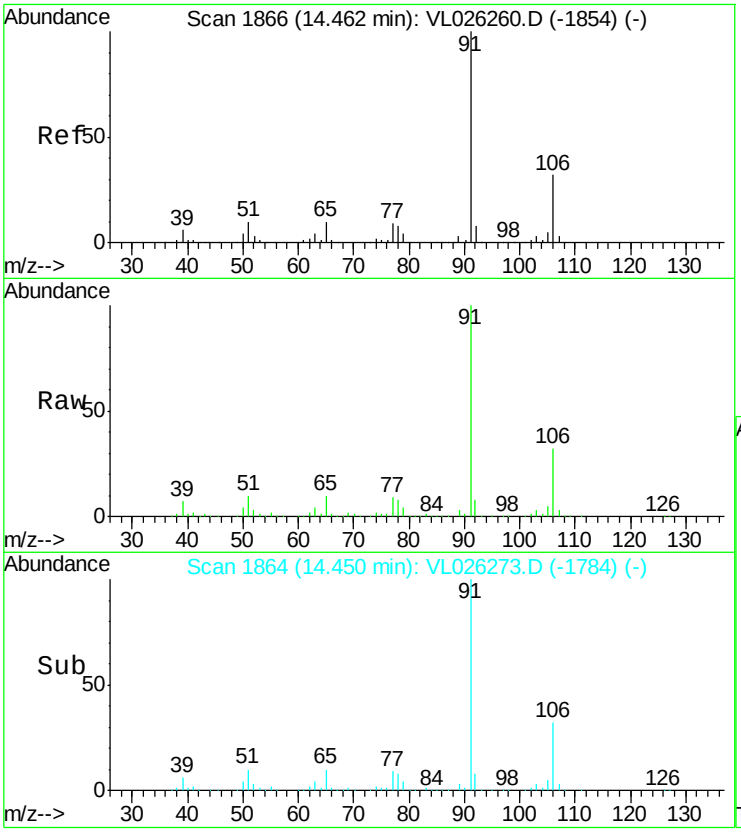


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:117 Resp: 1614461

Ion	Ratio	Lower	Upper
117	100		
82	62.9	48.2	72.4
119	32.3	46.2	69.2#



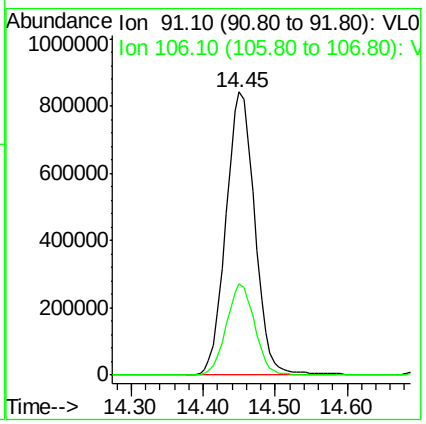


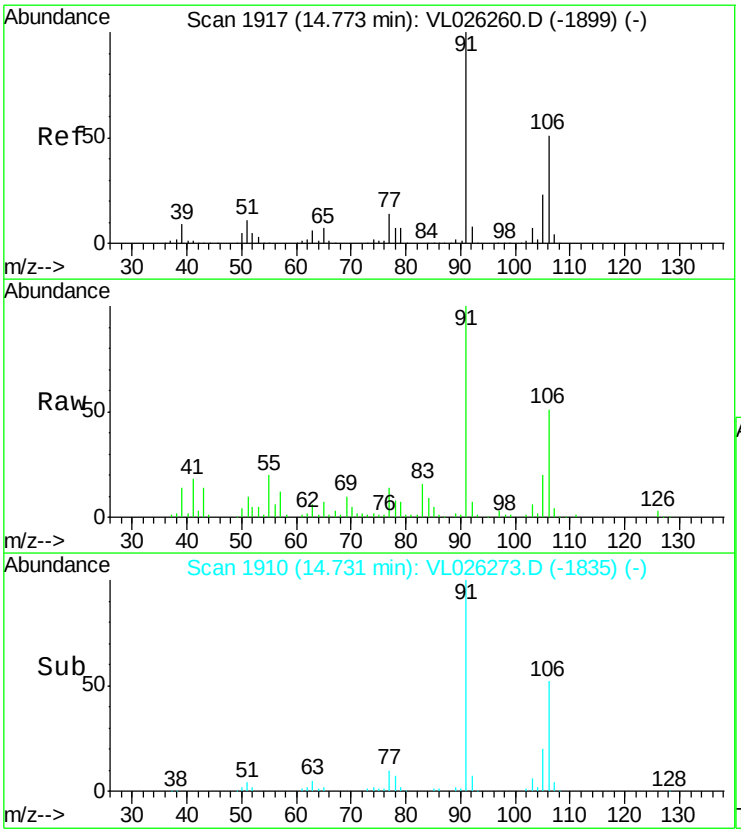
#58
Ethyl Benzene
Concen: 8.83 ppbv
RT: 14.45 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2342363

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.7	38.5

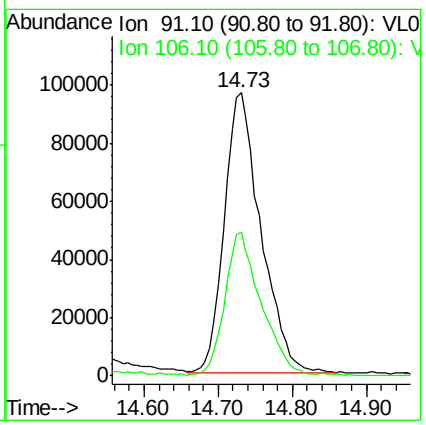


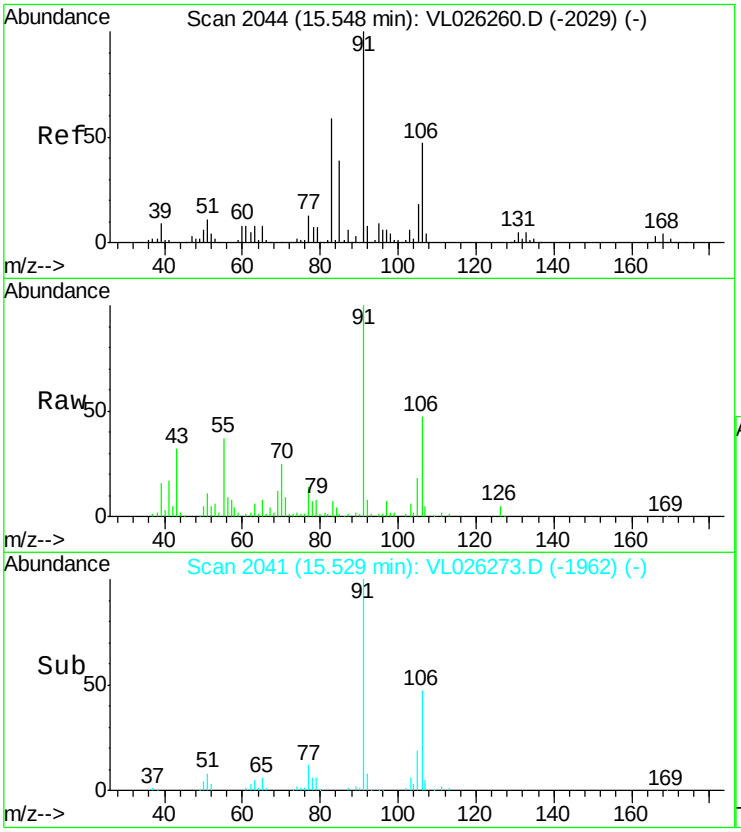


#59
m/p-Xylene
Concen: 1.56 ppbv
RT: 14.73 min Scan# 1910
Delta R.T. -0.04 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion: 91 Resp: 328852

Ion	Ratio	Lower	Upper
91	100		
106	52.0	0.0	0.0#



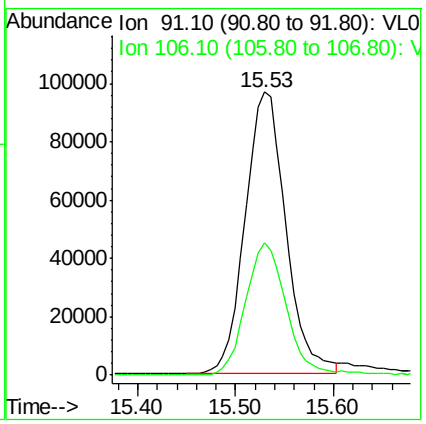


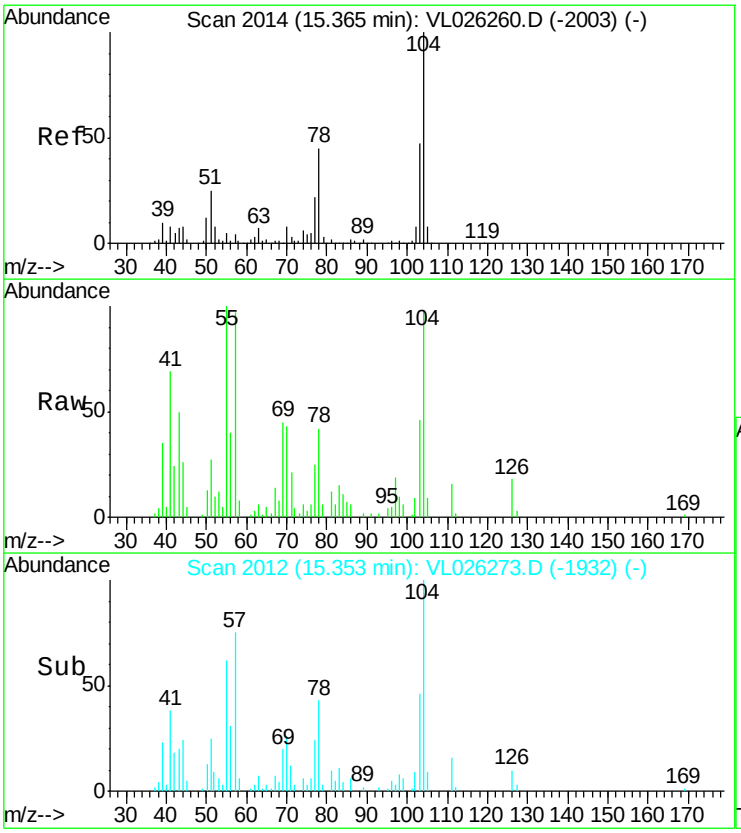
#60
o-Xylene
Concen: 1.27 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. -0.02 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 278733

Ion	Ratio	Lower	Upper
91	100		
106	47.7	23.6	70.8

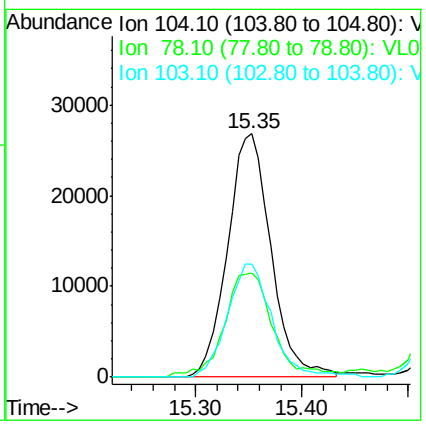


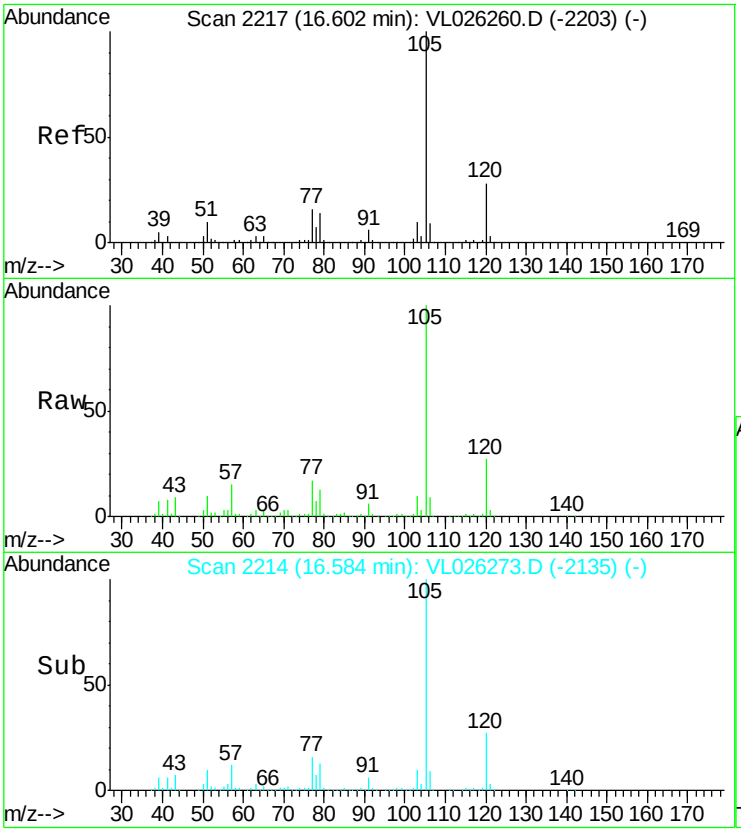


#61
Styrene
Concen: 0.82 ppbv
RT: 15.35 min Scan# 2012
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:104 Resp: 76589

Ion	Ratio	Lower	Upper
104	100		
78	48.2	35.5	53.3
103	47.5	37.0	55.6



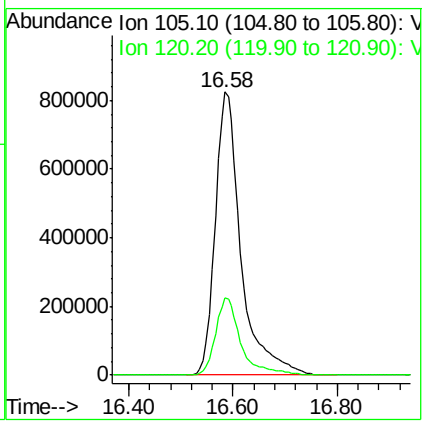


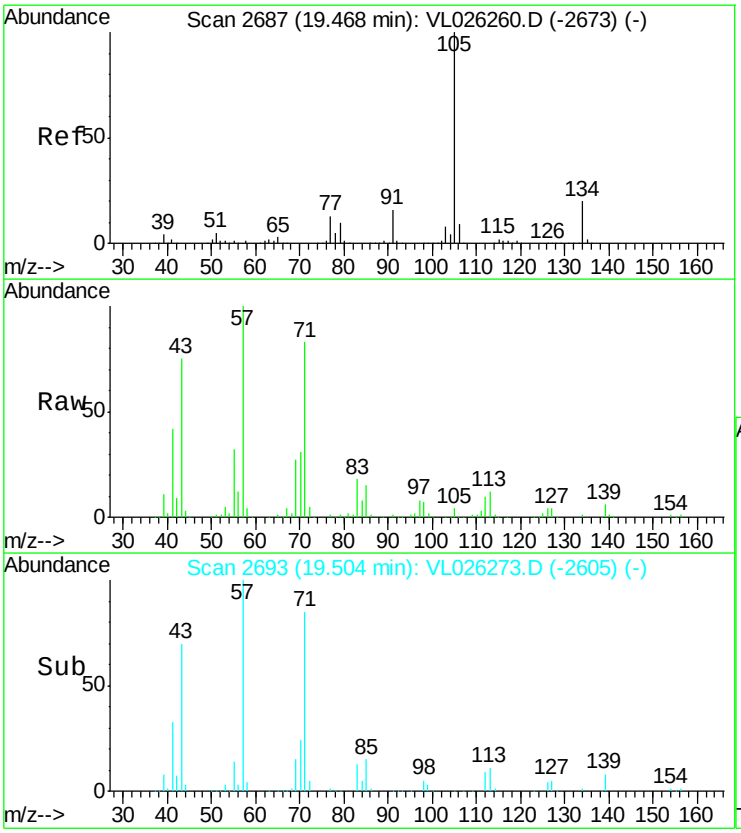
#62
Isopropylbenzene
Concen: 9.56 ppbv
RT: 16.58 min Scan# 2214
Delta R.T. -0.02 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:105 Resp: 2852282

Ion	Ratio	Lower	Upper
105	100		
120	26.8	21.7	32.5

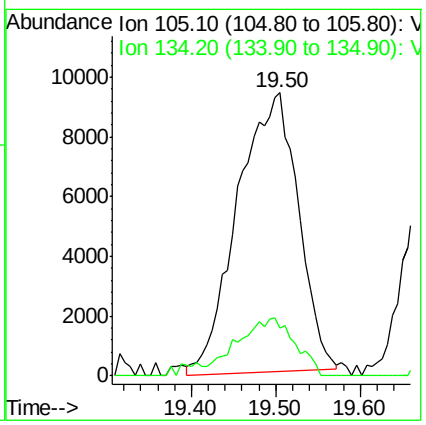


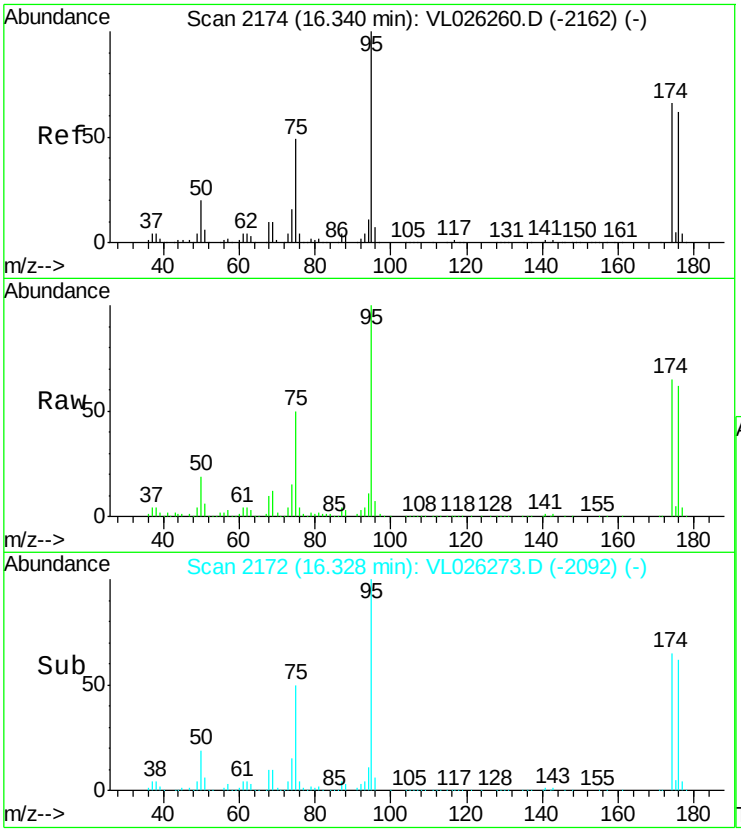


#67
sec-Butylbenzene
Concen: 0.12 ppbv
RT: 19.50 min Scan# 2693
Delta R.T. 0.04 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:105 Resp: 46107

Ion	Ratio	Lower	Upper
105	100		
134	21.5	16.0	24.0



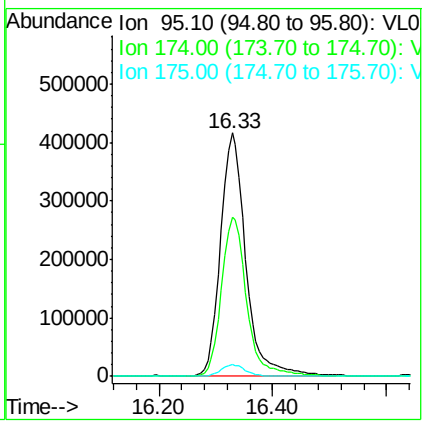


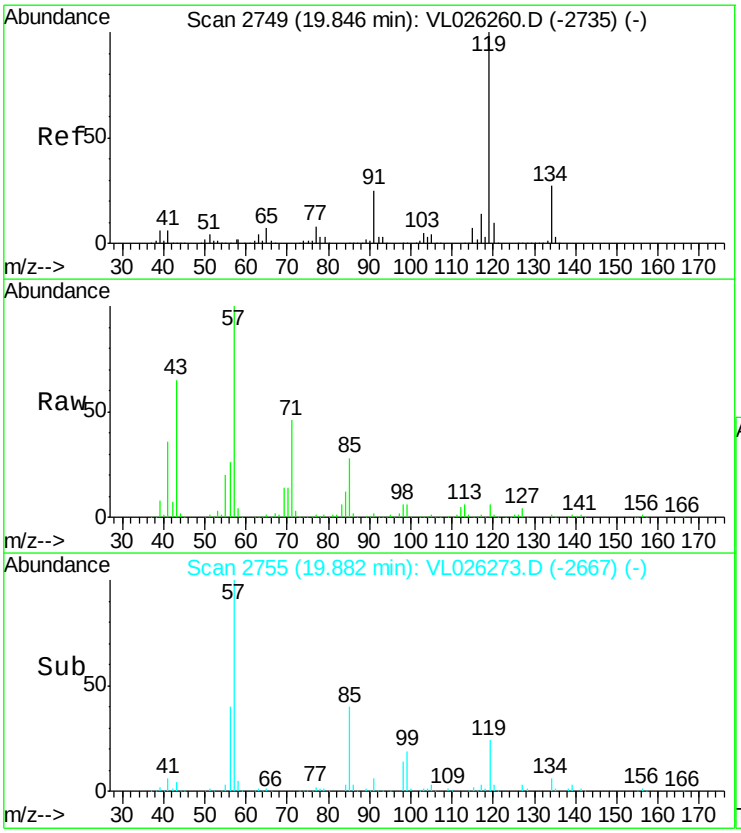
#68
1-Bromo-4-Fluorobenzene
Concen: 10.48 ppbv
RT: 16.33 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 1283039

Ion	Ratio	Lower	Upper
95	100		
174	65.6	52.9	79.3
175	4.9	3.8	5.8

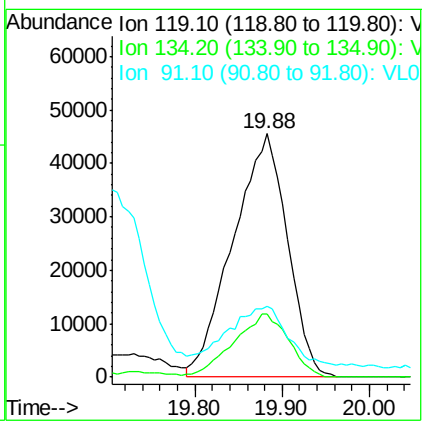


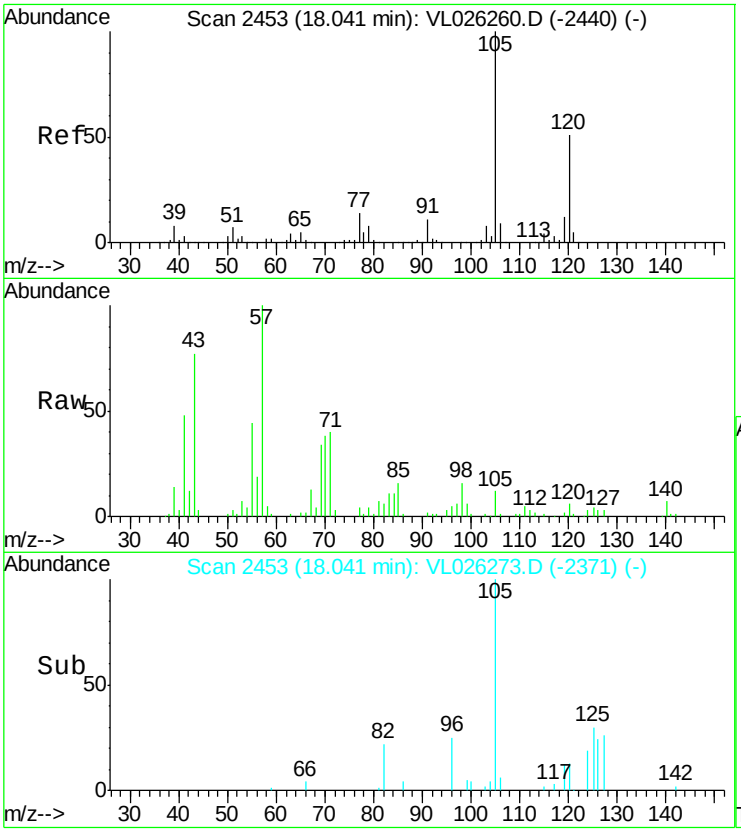


#69
p-Isopropyltoluene
Concen: 0.63 ppbv
RT: 19.88 min Scan# 2755
Delta R.T. 0.04 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:119 Resp: 196664

Ion	Ratio	Lower	Upper
119	100		
134	26.3	21.3	31.9
91	29.2	19.6	29.4



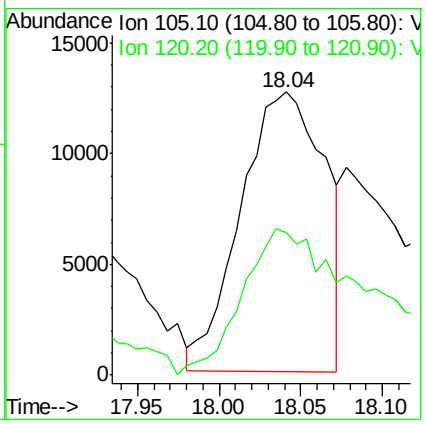


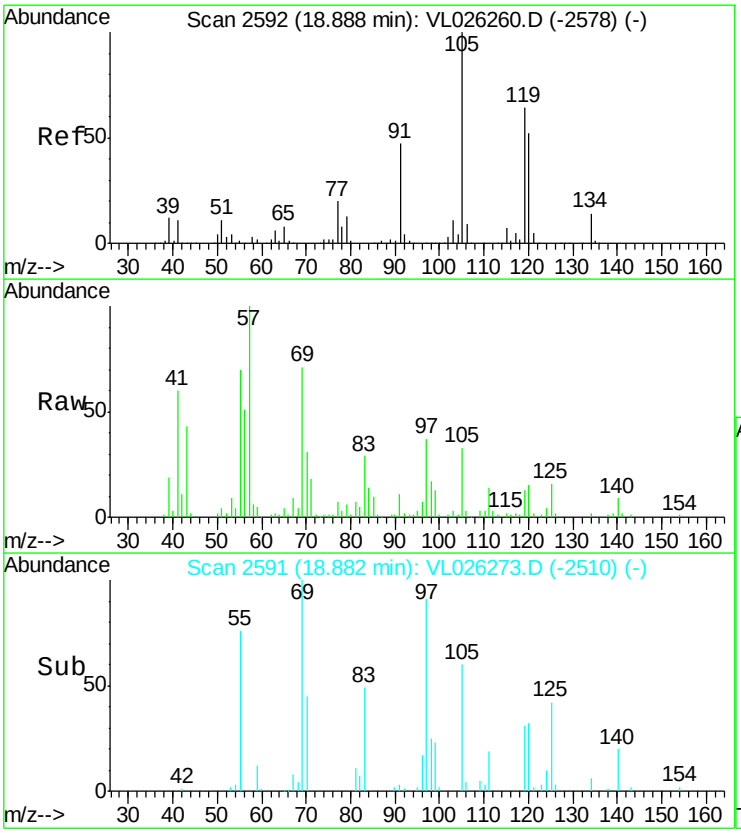
#73
1,3,5-Trimethylbenzene
Concen: 0.19 ppbv
RT: 18.04 min Scan# 2453
Delta R.T. 0.00 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:105 Resp: 45142

Ion	Ratio	Lower	Upper
105	100		
120	52.2	40.6	61.0





#74
1,2,4-Trimethylbenzene
Concen: 0.68 ppbv
RT: 18.88 min Scan# 2591
Delta R.T. -0.01 min
Lab File: VL026273.D
Acq: 29 Oct 2015 20:23

Tgt Ion:105 Resp: 166931

Ion	Ratio	Lower	Upper
105	100		
120	47.4	41.2	61.8
91	27.8	37.8	56.8#
77	15.4	16.1	24.1#