Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL011216\
Data File : VL026672.D
Acq On : 12 Jan 2016 13:24
Operator : SY/AP
Sample : H1064-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-01DUP

Manual Integrations APPROVED
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Quant Time: Jan 13 14:38:35 2016
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan 1
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.68	49	813781	10.00	ppbv		0.04
33) 1,4-Difluorobenzene	8.35	114	2469778	10.00	ppbv		0.04
55) Chlorobenzene-d5	13.77	117	3014019	10.00	ppbv		0.05
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	16.32	95	2403822	10.01	ppbv		0.05
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.66	85	108403	0.50	ppbv		100
3) Chlorodifluoromethane	3.59	51	196619m	1.81	ppbv		
4) Chloromethane	3.77	50	26850	0.51	ppbv		98
9) Propene	3.62	41	1311793m	33.68	ppbv		
10) Heptane	9.38	43	958071	6.60	ppbv		99
11) Trichlorofluoromethane	4.72	101	53432	0.24	ppbv		86
13) Ethanol	4.35	45	123212	16.65	ppbv		98
15) Acetone	4.62	43	3822002	28.55	ppbv		92
20) Methylene Chloride	5.18	84	47841	0.87	ppbv		97
26) Hexane	6.68	57	352126	3.30	ppbv	#	52
30) Cyclohexane	8.31	84	104117	0.99	ppbv	#	68
34) 2-Butanone	6.23	43	149903	1.14	ppbv		93
35) Carbon Tetrachloride	8.19	117	15699	0.07	ppbv		92
36) Benzene	8.05	78	867518	3.41	ppbv		100
38) Trichloroethene	9.09	130	354685	3.13	ppbv		97
44) 2,2,4-Trimethylpentane	9.12	57	604915	1.47	ppbv	#	76
50) 4-Methyl-2-Pentanone	10.13	43	186748	1.01	ppbv		95
52) Tetrachloroethene	12.82	164	42698	0.34	ppbv		96
53) Toluene	11.27	91	2914499	8.14	ppbv		100
58) Ethyl Benzene	14.44	91	1083887	2.01	ppbv		99
59) m/p-Xylene	14.72	91	3257492	7.34	ppbv		100
60) o-Xylene	15.52	91	1378330	2.87	ppbv		99
61) Styrene	15.35	104	123631	0.66	ppbv		99
62) Isopropylbenzene	16.58	105	156157	0.25	ppbv		99
64) n-propylbenzene	17.55	120	137902	0.81	ppbv		94
67) sec-Butylbenzene	19.44	105	210613	0.24	ppbv		99
70) n-Butylbenzene	20.79	91	518447	0.75	ppbv	#	51
72) 4-Ethyltoluene	17.85	105	762505	1.42	ppbv		98
73) 1,3,5-Trimethylbenzene	18.02	105	736893	1.45	ppbv		97
74) 1,2,4-Trimethylbenzene	18.86	105	2780030	5.15	ppbv	#	78
79) Naphthalene	23.96	128	314558	0.86	ppbv		97
80) Naphthalene,2-methyl-	26.08	142	17646	0.31	ppbv	#	30

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL011216\
Data File : VL026672.D
Acq On : 12 Jan 2016 13:24
Operator : SY/AP
Sample : H1064-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 13 14:38:35 2016
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

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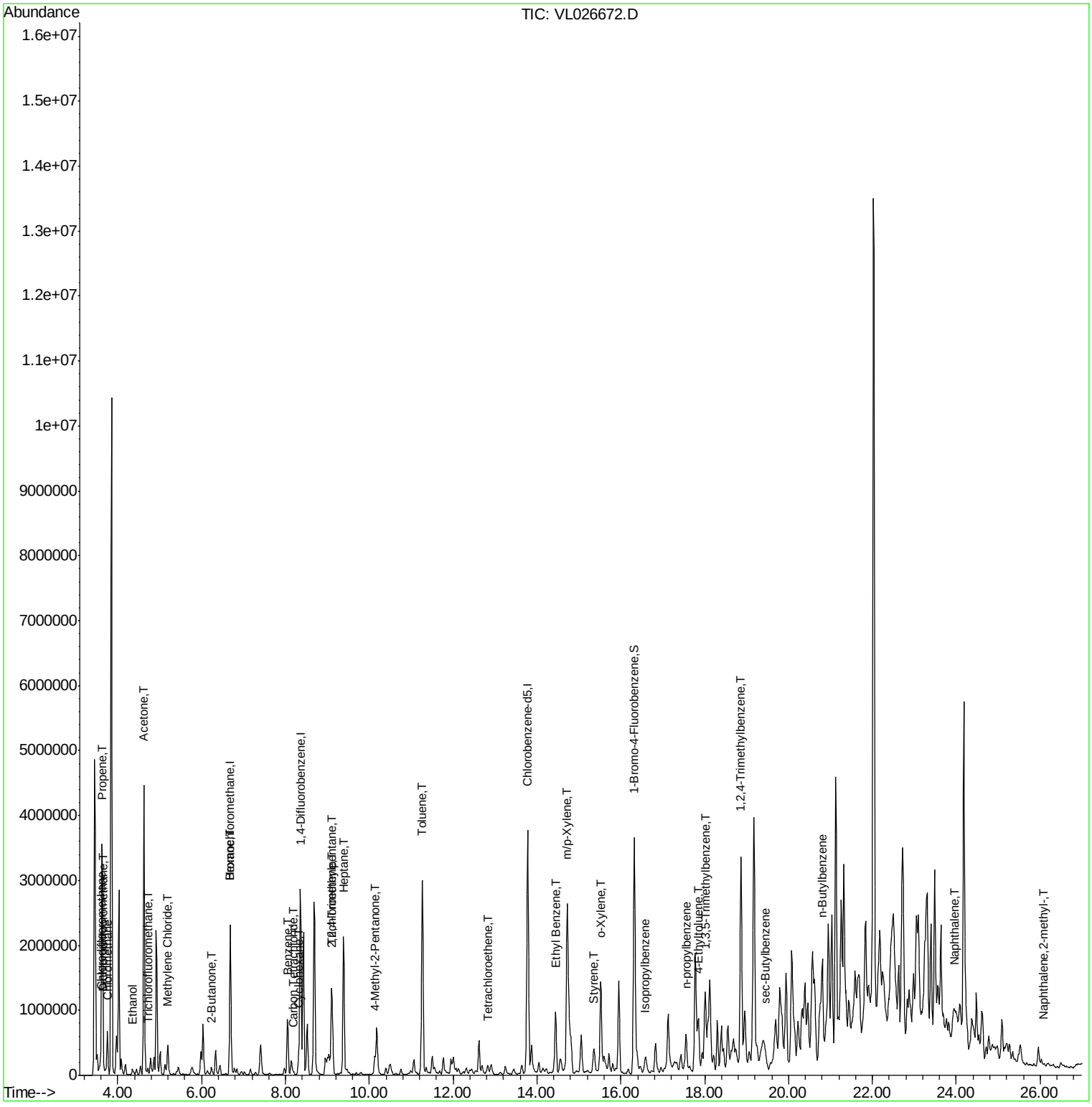
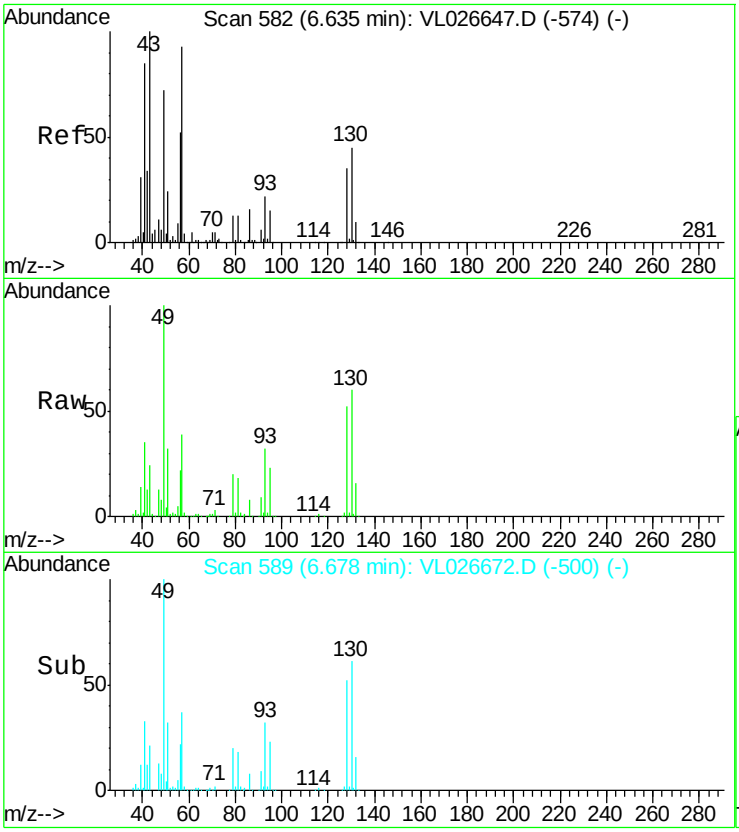
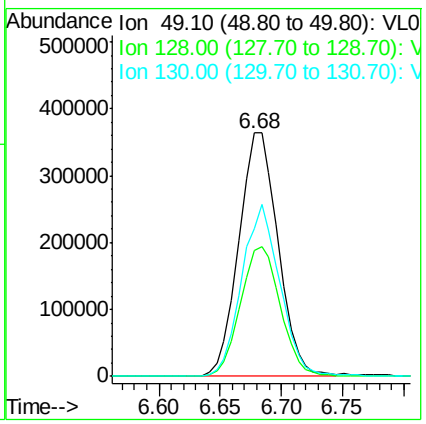




#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 49 Resp: 813781

Ion	Ratio	Lower	Upper
49	100		
128	55.0	25.9	77.7
130	69.1	33.6	100.8



Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

Manual Integrations APPROVED
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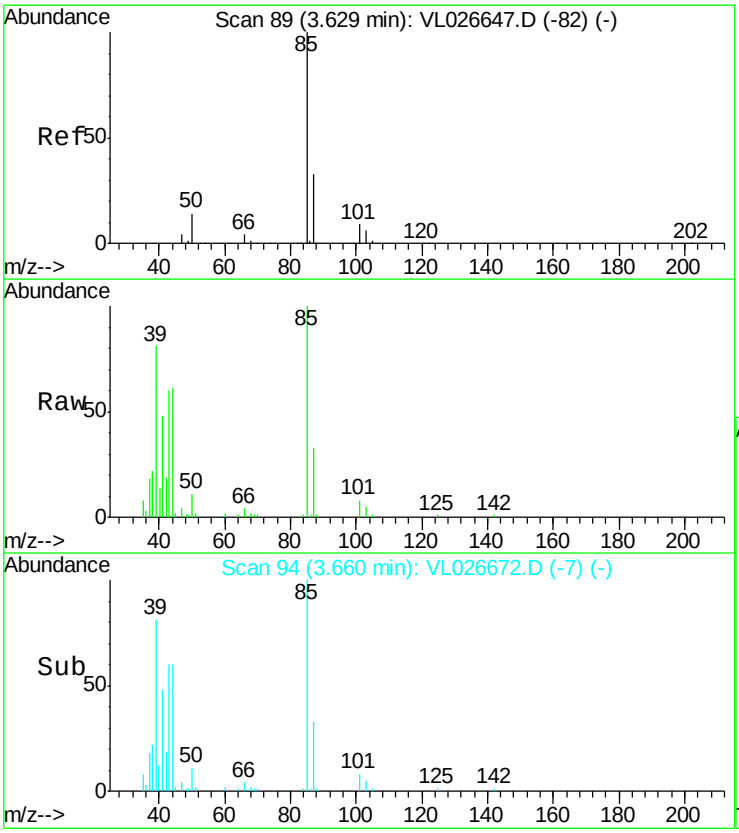
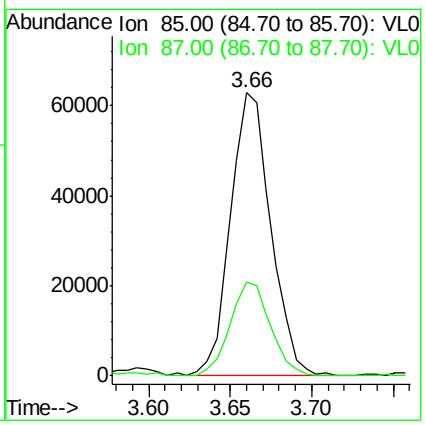
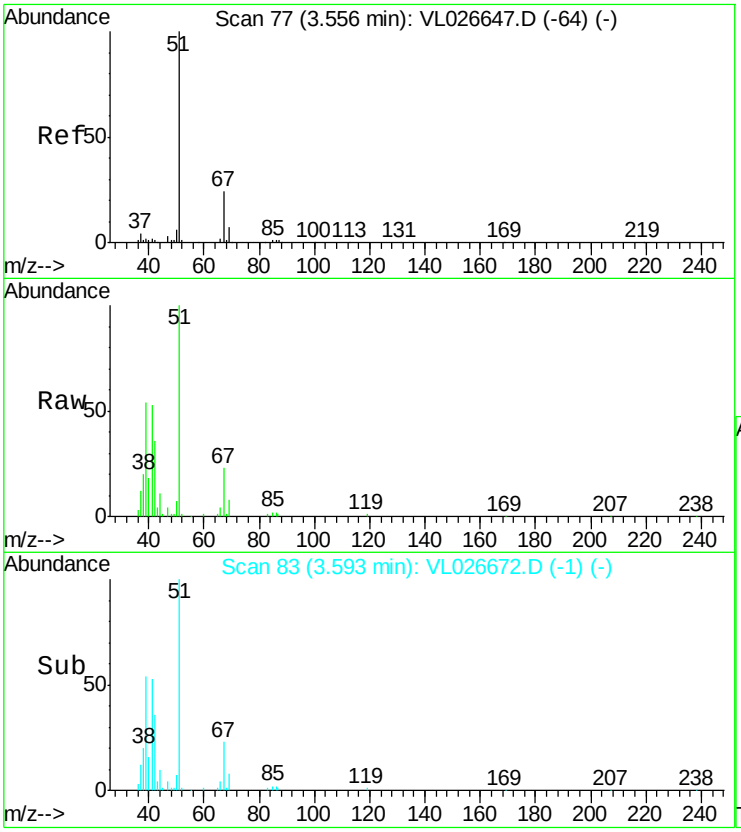


#2
Dichlorodifluoromethane
Concen: 0.50 ppbv
RT: 3.66 min Scan# 94
Delta R.T. 0.03 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 85 Resp: 108403

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.4	39.6

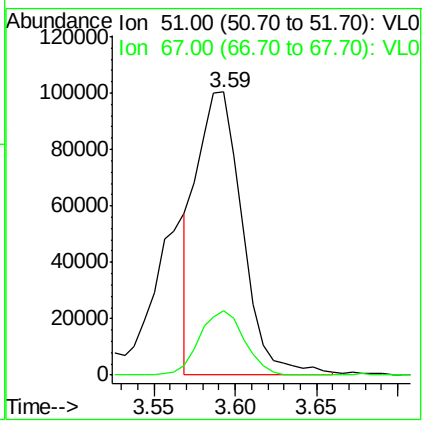




#3
Chlorodifluoromethane
Concen: 1.81 ppbv m
RT: 3.59 min Scan# 83
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 51 Resp: 196619

Ion	Ratio	Lower	Upper
51	100		
67	22.3	18.6	28.0



Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

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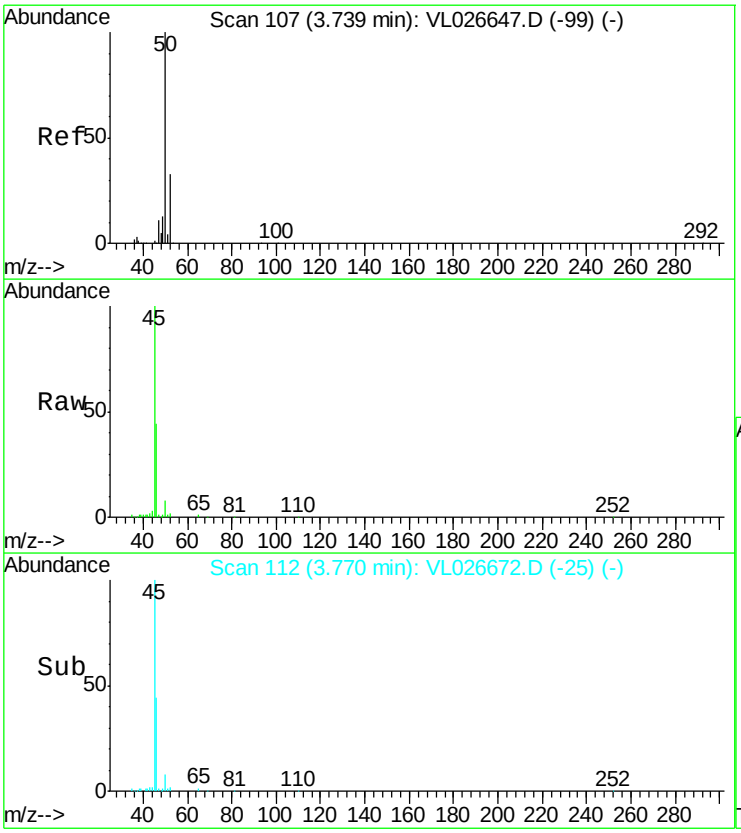
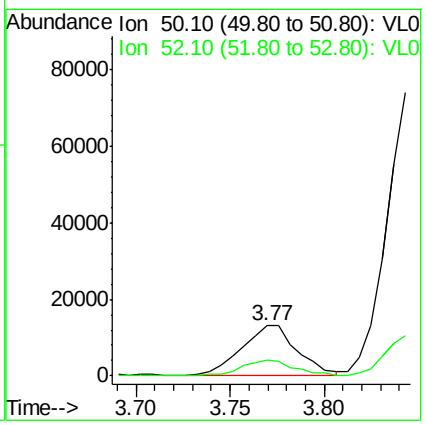
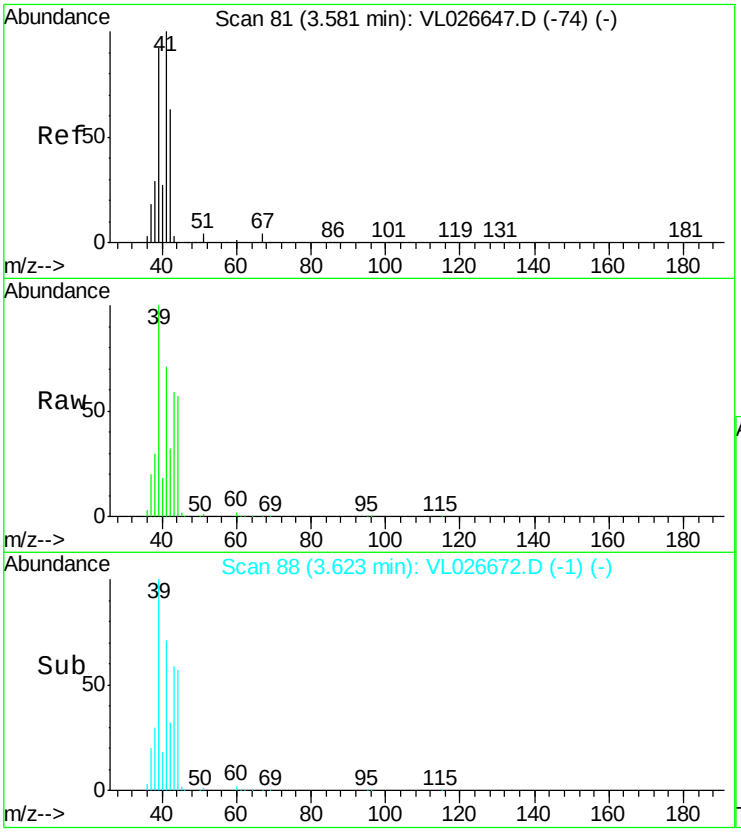


#4
Chloromethane
Concen: 0.51 ppbv
RT: 3.77 min Scan# 112
Delta R.T. 0.03 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 50 Resp: 26850

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.7	40.1

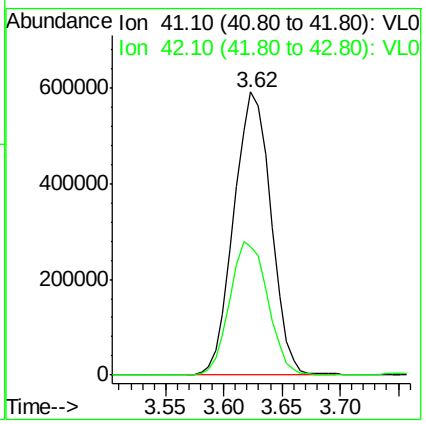




#9
Propene
Concen: 33.68 ppbv m
RT: 3.62 min Scan# 88
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 41 Resp: 1311793

Ion	Ratio	Lower	Upper
41	100		
42	194.4	53.6	80.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

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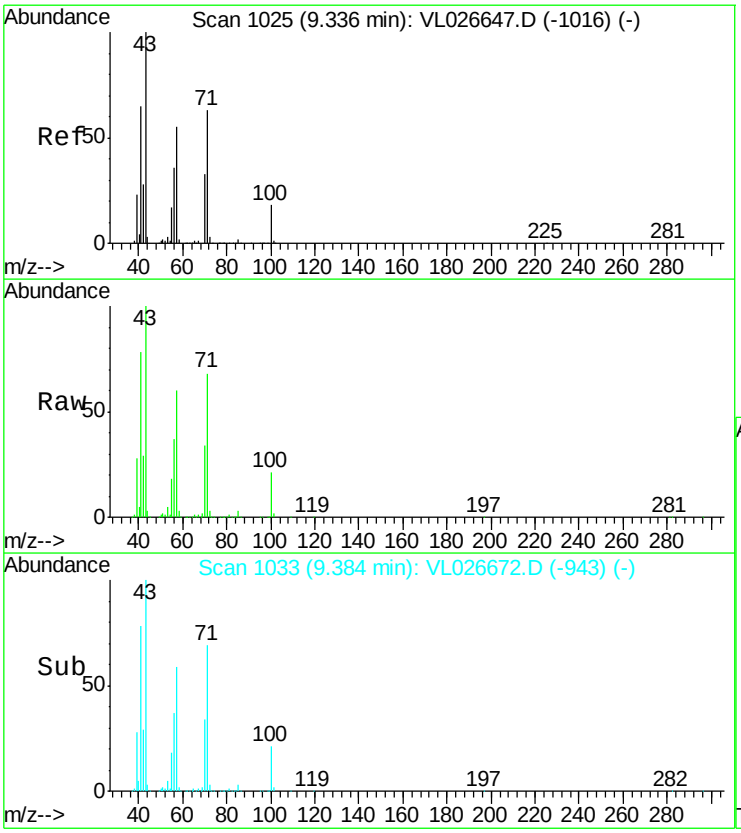
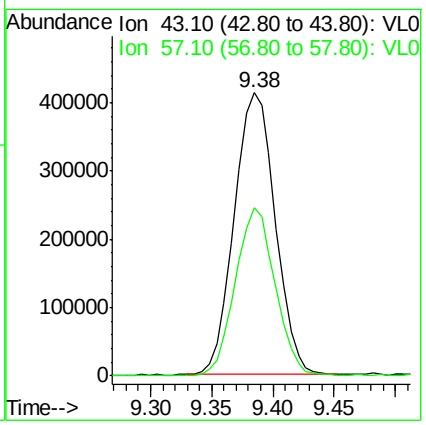
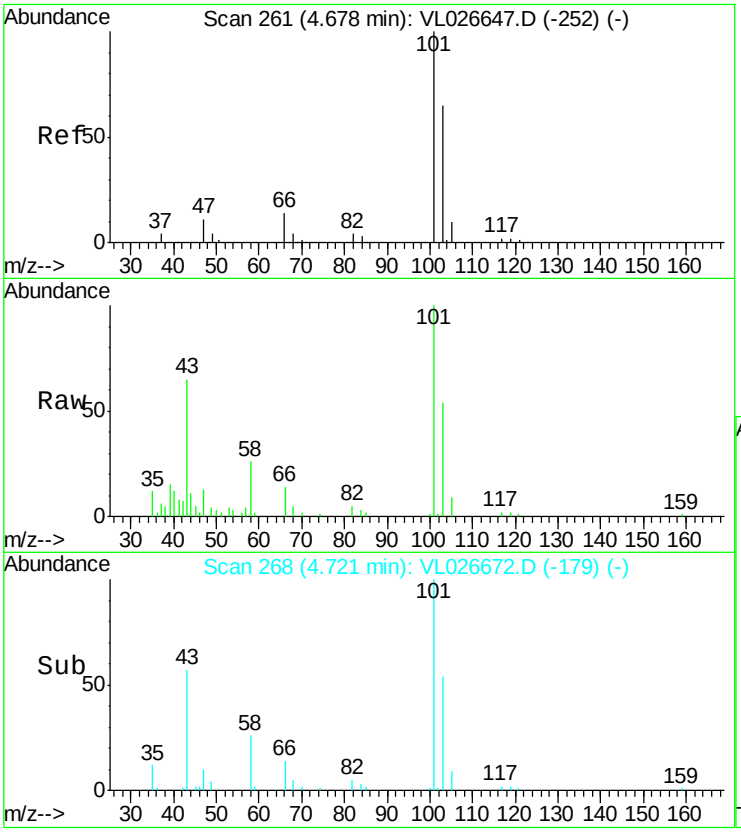


#10
Heptane
Concen: 6.60 ppbv
RT: 9.38 min Scan# 1033
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 43 Resp: 958071

Ion	Ratio	Lower	Upper
43	100		
57	58.2	45.8	68.6

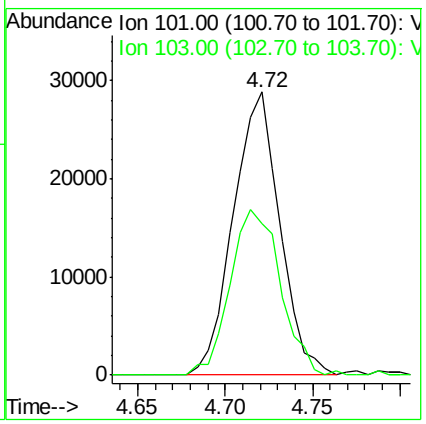




#11
Trichlorofluoromethane
Concen: 0.24 ppbv
RT: 4.72 min Scan# 268
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:101 Resp: 53432

Ion	Ratio	Lower	Upper
101	100		
103	53.6	51.7	77.5



Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

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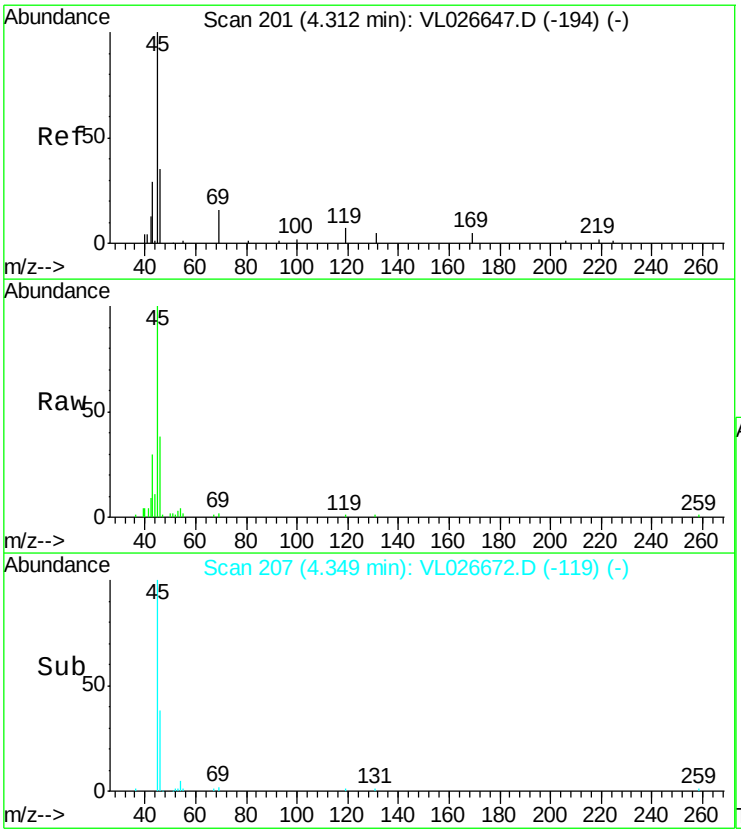
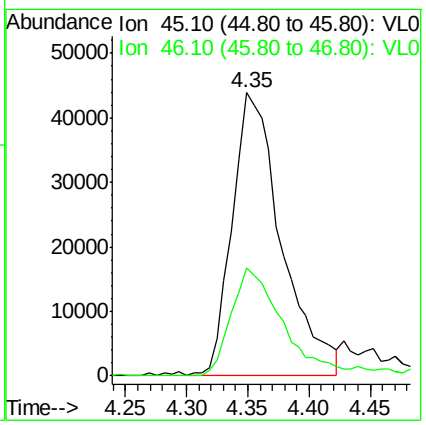
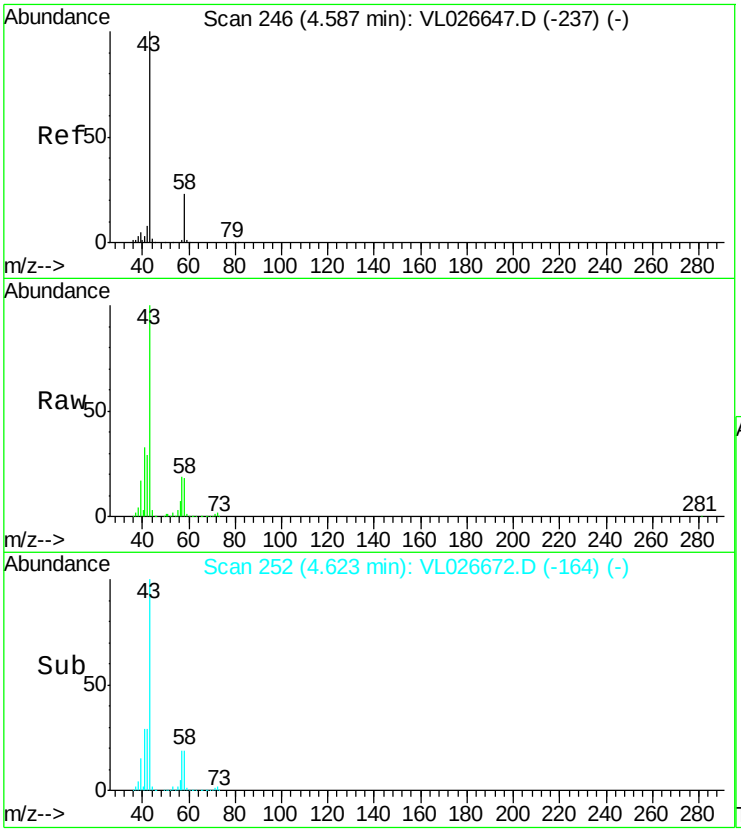


#13
Ethanol
Concen: 16.65 ppbv
RT: 4.35 min Scan# 207
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 45 Resp: 123212

Ion	Ratio	Lower	Upper
45	100		
46	42.8	16.7	66.7

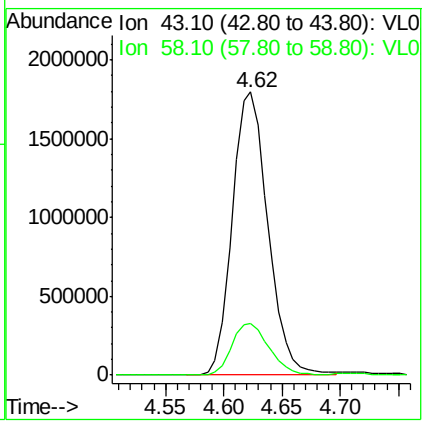




#15
Acetone
Concen: 28.55 ppbv
RT: 4.62 min Scan# 252
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 43 Resp: 3822002

Ion	Ratio	Lower	Upper
43	100		
58	20.1	19.2	28.8



Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

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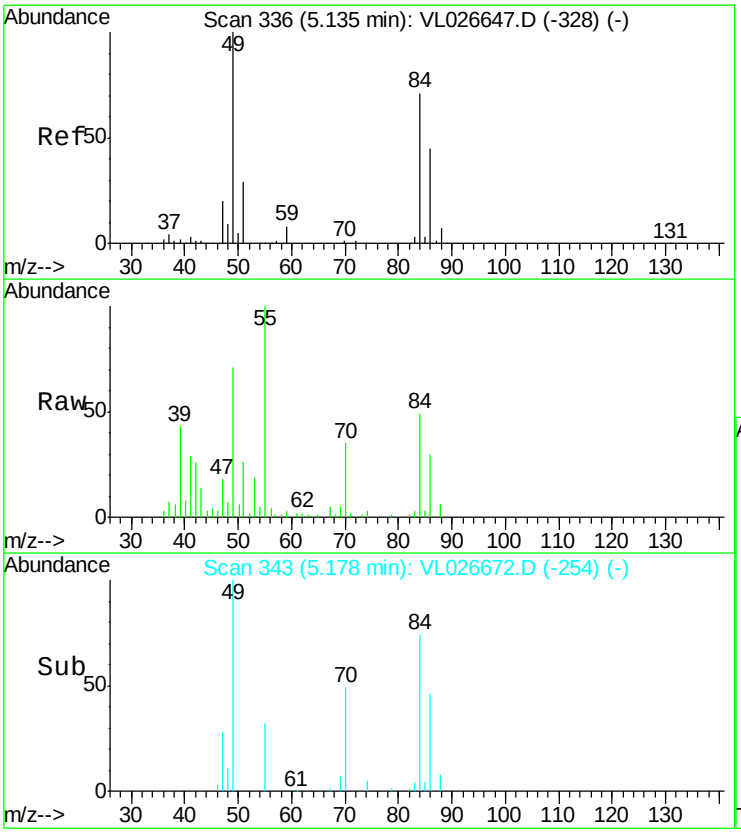
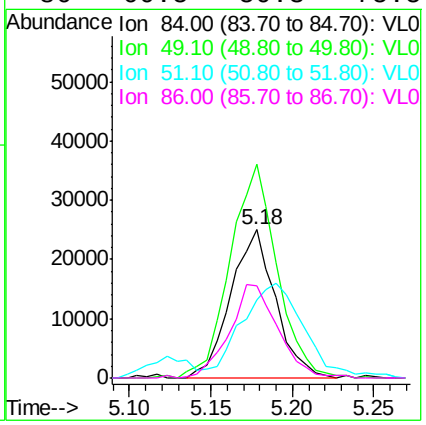
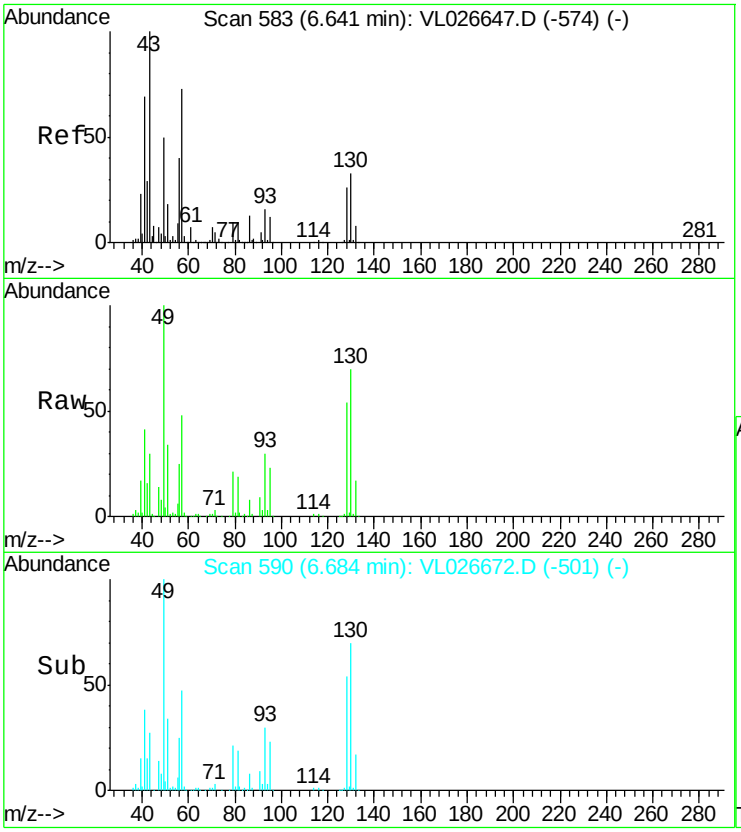


#20
Methylene Chloride
Concen: 0.87 ppbv
RT: 5.18 min Scan# 343
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 84 Resp: 47841

Ion	Ratio	Lower	Upper
84	100		
49	142.3	112.3	168.5
51	45.5	32.5	48.7
86	60.5	50.3	75.5

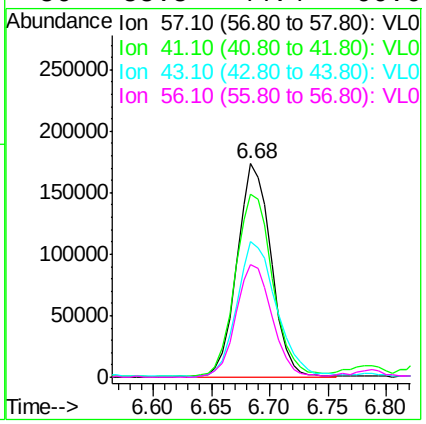




#26
Hexane
Concen: 3.30 ppbv
RT: 6.68 min Scan# 590
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 57 Resp: 352126

Ion	Ratio	Lower	Upper
57	100		
41	94.7	74.8	112.2
43	74.6	161.5	242.3#
56	55.5	44.4	66.6



Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

Manual Integrations APPROVED
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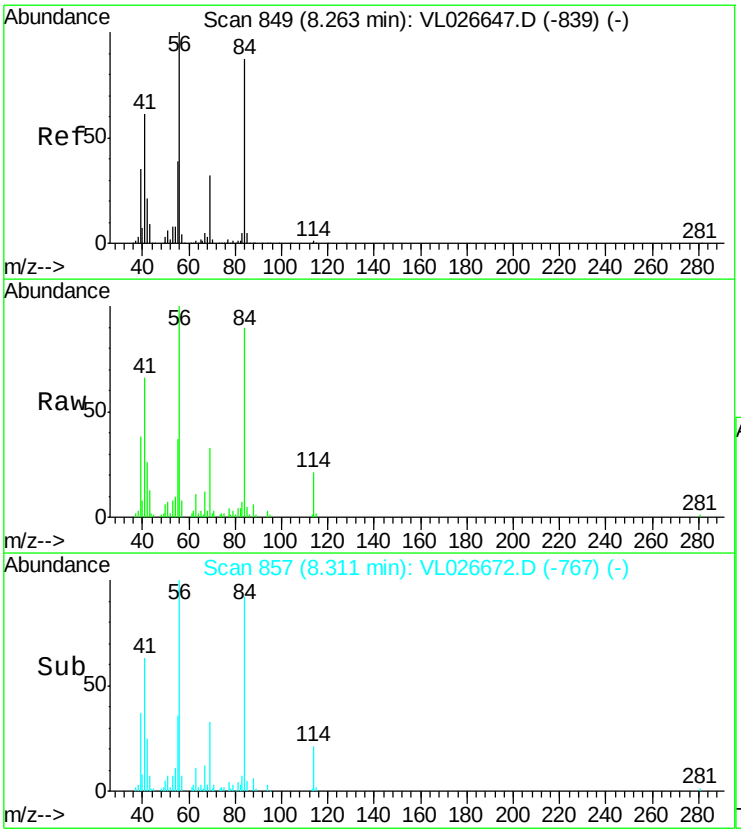
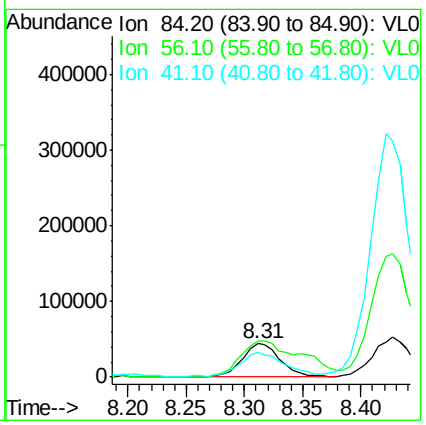
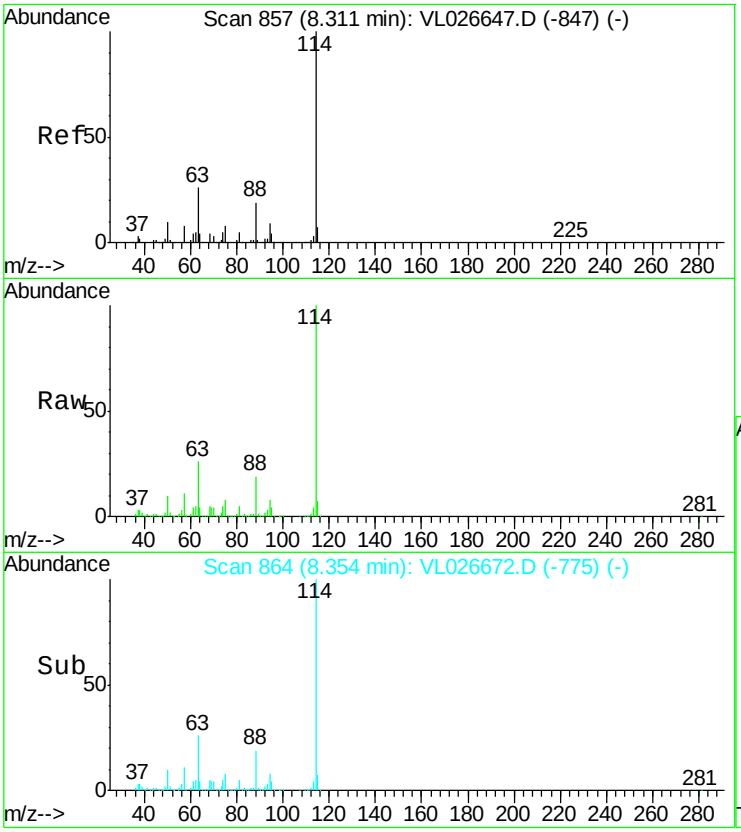


#30
Cyclohexane
Concen: 0.99 ppbv
RT: 8.31 min Scan# 857
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 84 Resp: 104117

Ion	Ratio	Lower	Upper
84	100		
56	167.6	95.9	143.9#
41	79.1	54.8	82.2

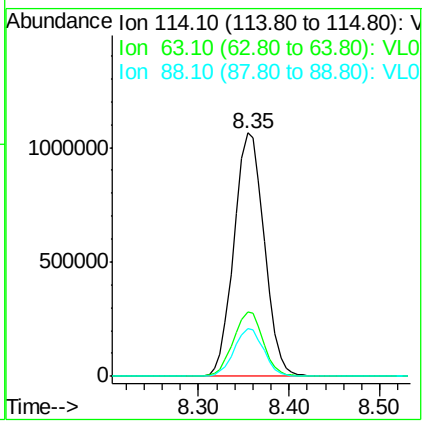




#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.35 min Scan# 864
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:114 Resp: 2469778

Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.7	32.5
88	19.2	15.2	22.8



Instrument :
MSVOA_L
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IA-01DUP

Manual Integrations APPROVED
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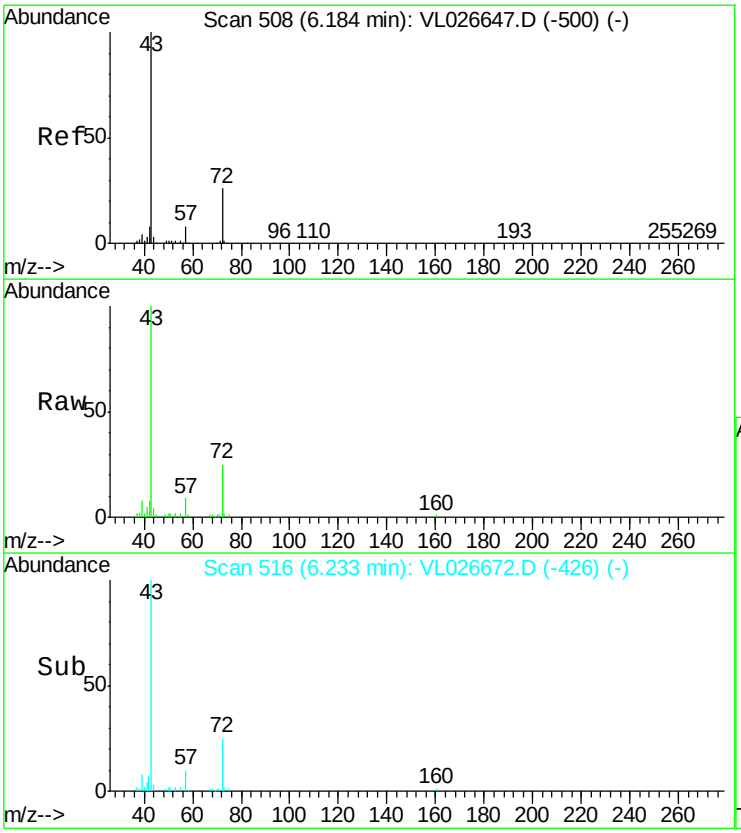
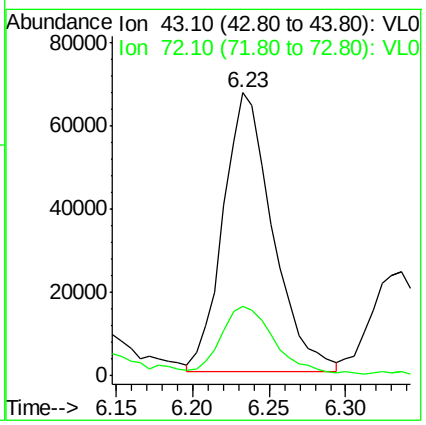
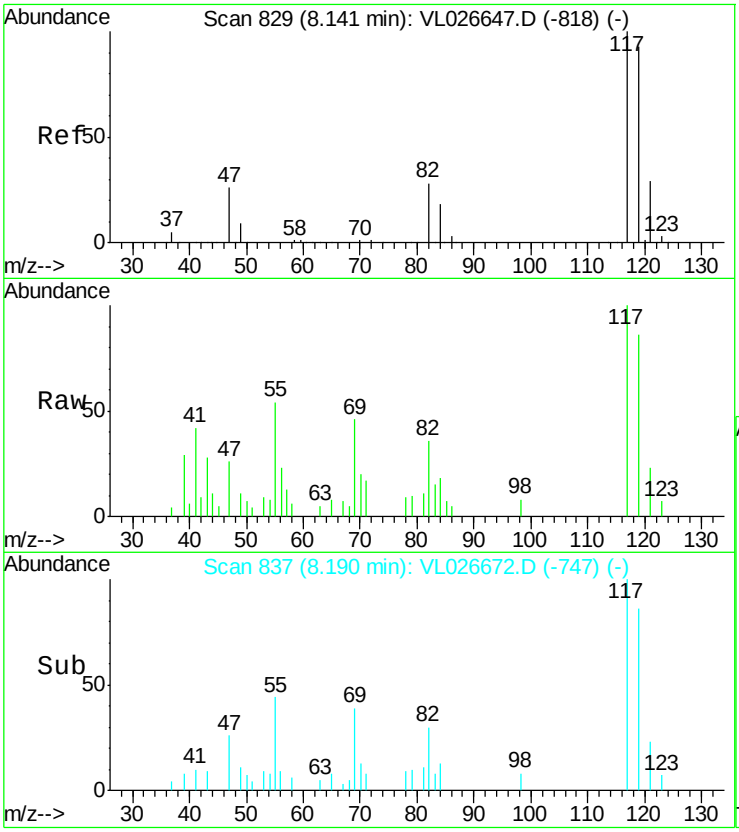


#34
2-Butanone
Concen: 1.14 ppbv
RT: 6.23 min Scan# 516
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 43 Resp: 149903

Ion	Ratio	Lower	Upper
43	100		
72	29.7	20.9	31.3

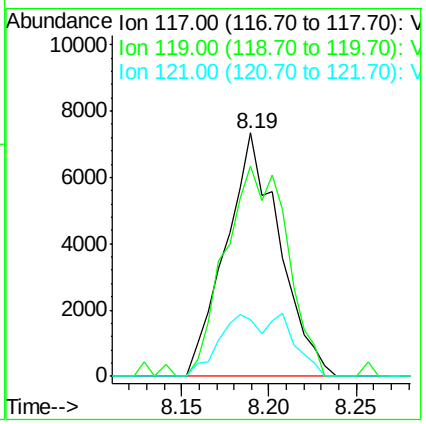




#35
Carbon Tetrachloride
Concen: 0.07 ppbv
RT: 8.19 min Scan# 837
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:117 Resp: 15699

Ion	Ratio	Lower	Upper
117	100		
119	86.4	74.7	112.1
121	23.3	23.1	34.7



Instrument :
MSVOA_L
ClientSampleId :
IA-01DUP

Manual Integrations APPROVED
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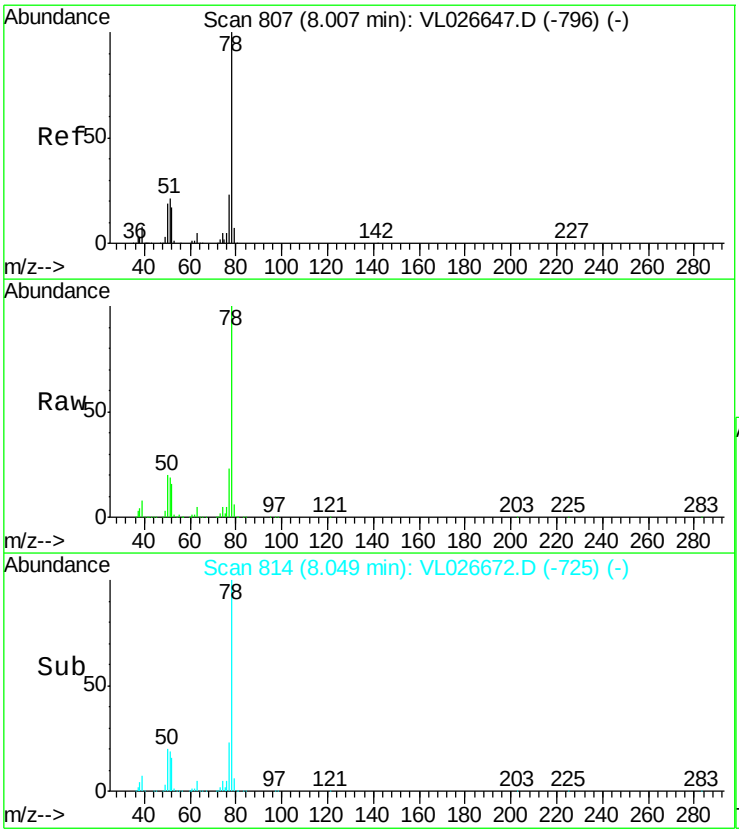
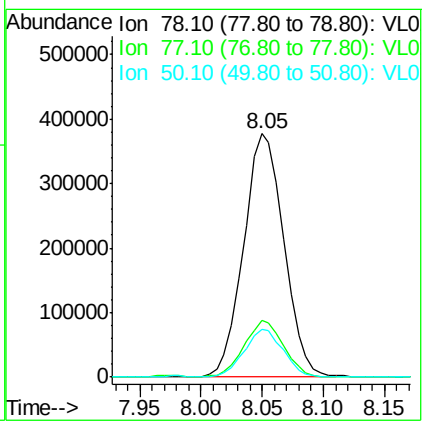
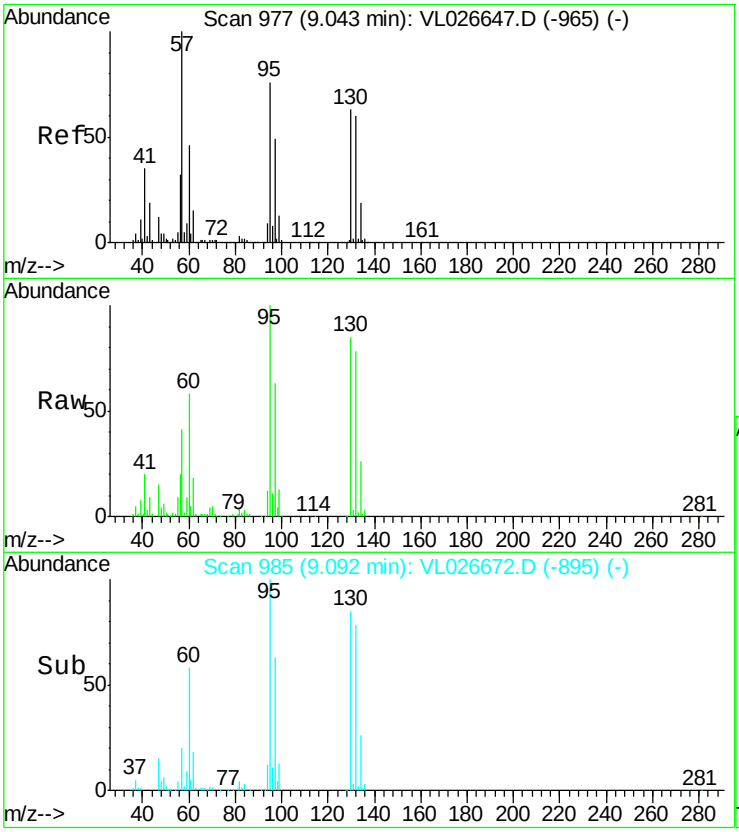


#36
Benzene
Concen: 3.41 ppbv
RT: 8.05 min Scan# 814
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 78 Resp: 867518

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.5	27.7
50	19.3	15.4	23.2

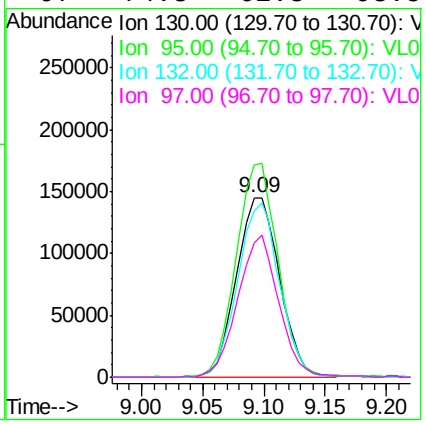




#38
Trichloroethene
Concen: 3.13 ppbv
RT: 9.09 min Scan# 985
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:130 Resp: 354685

Ion	Ratio	Lower	Upper
130	100		
95	117.4	96.6	145.0
132	92.8	76.2	114.4
97	74.3	62.3	93.5



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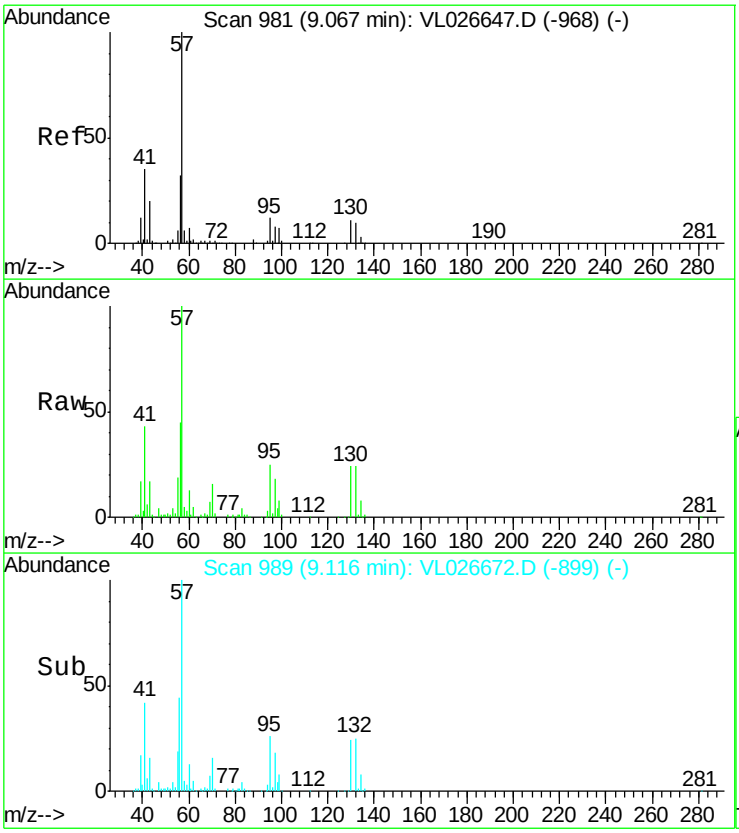
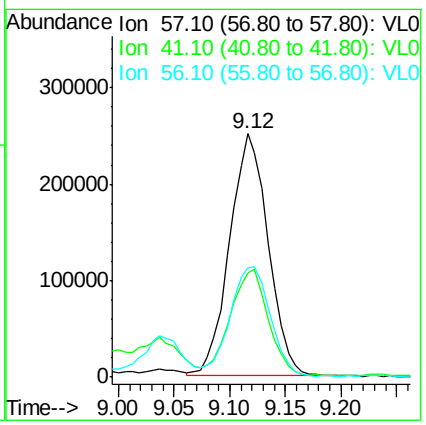
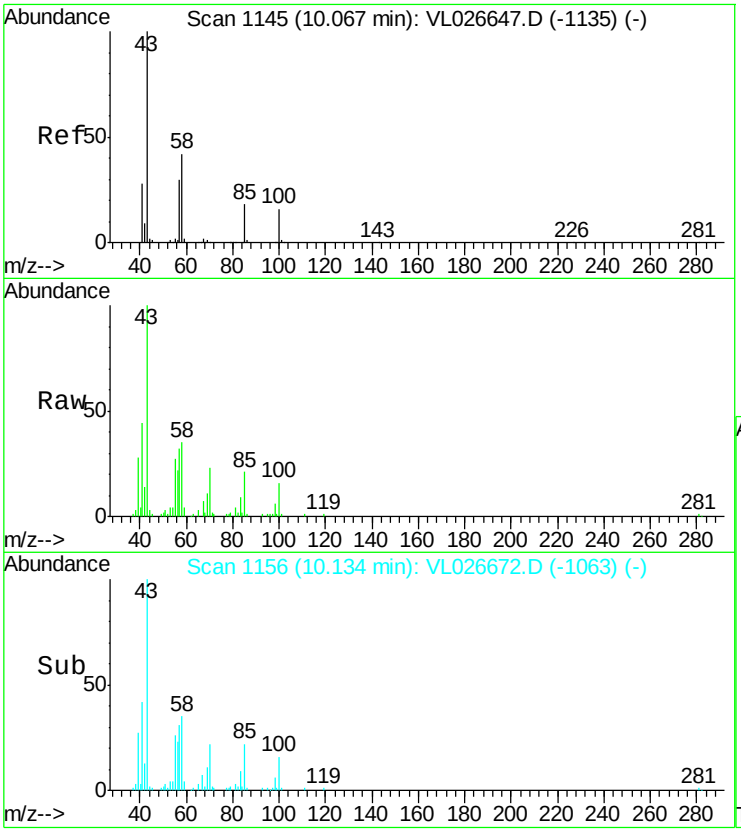


#44
2,2,4-Trimethylpentane
Concen: 1.47 ppbv
RT: 9.12 min Scan# 989
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 57 Resp: 604915

Ion	Ratio	Lower	Upper
57	100		
41	44.1	26.9	40.3#
56	47.9	25.4	38.0#





#50
4-Methyl-2-Pentanone
Concen: 1.01 ppbv
RT: 10.13 min Scan# 1156
Delta R.T. 0.07 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 43 Resp: 186748

Ion	Ratio	Lower	Upper
43	100		
58	37.4	32.4	48.6

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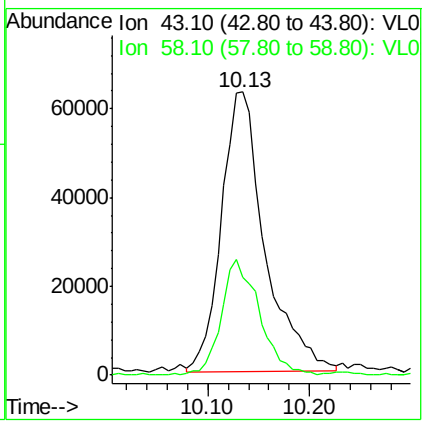
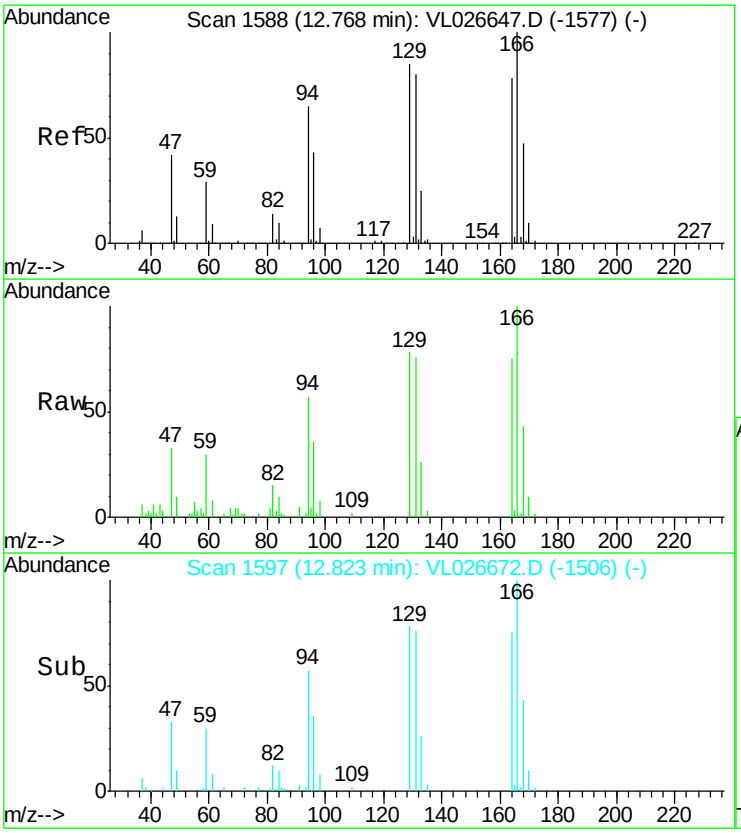
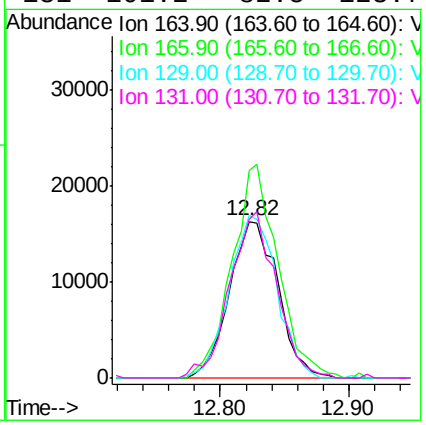


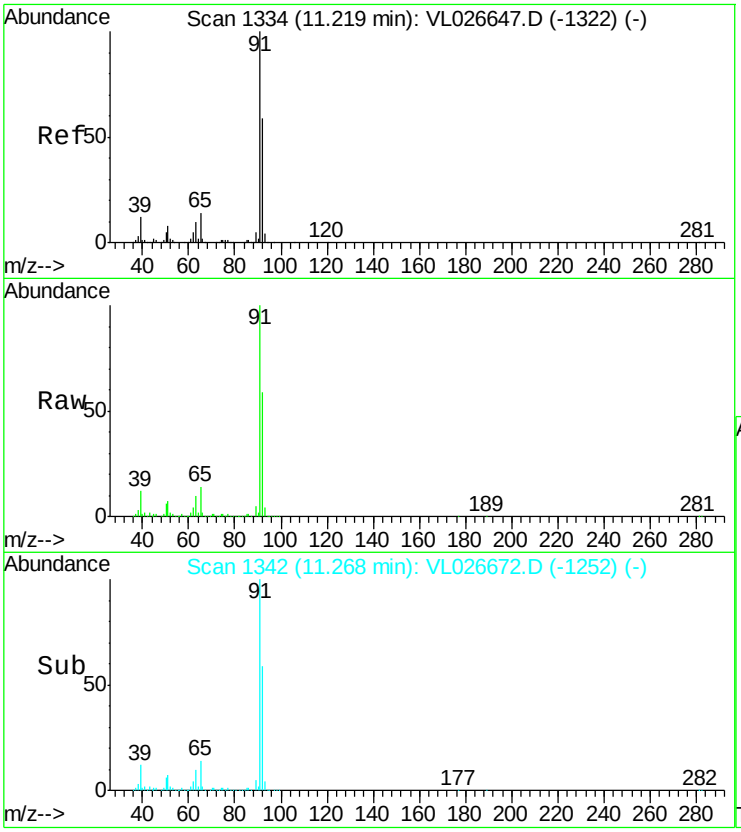


#52
Tetrachloroethene
Concen: 0.34 ppbv
RT: 12.82 min Scan# 1597
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:164 Resp: 42698

Ion	Ratio	Lower	Upper
164	100		
166	132.8	102.5	153.7
129	104.1	87.0	130.6
131	101.2	82.5	123.7

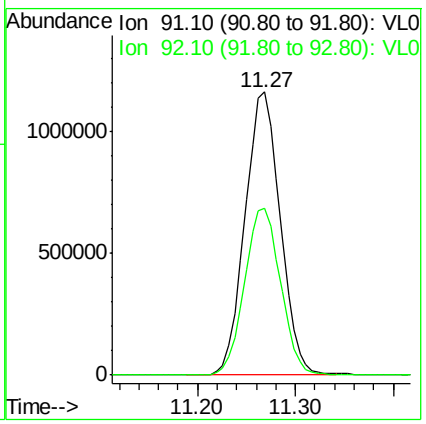




#53
Toluene
Concen: 8.14 ppbv
RT: 11.27 min Scan# 1342
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 2914499

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.2	72.4



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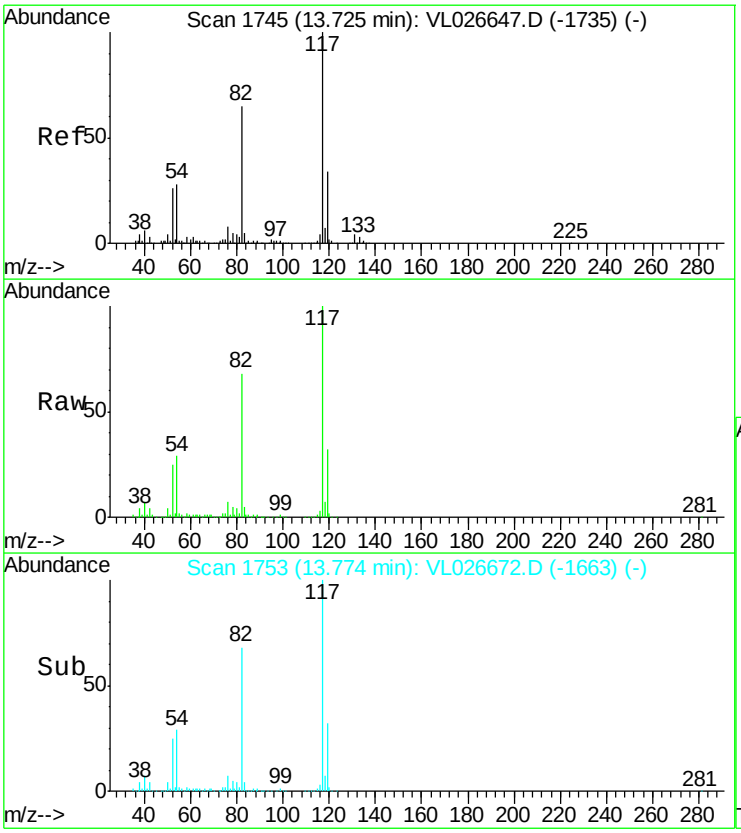
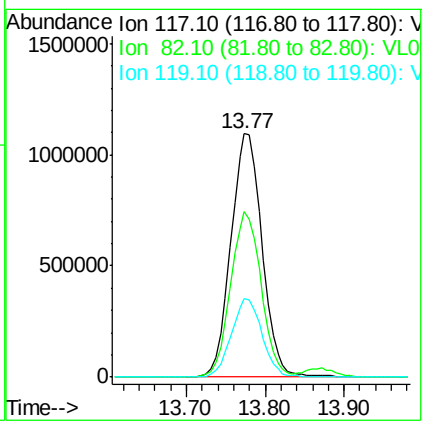
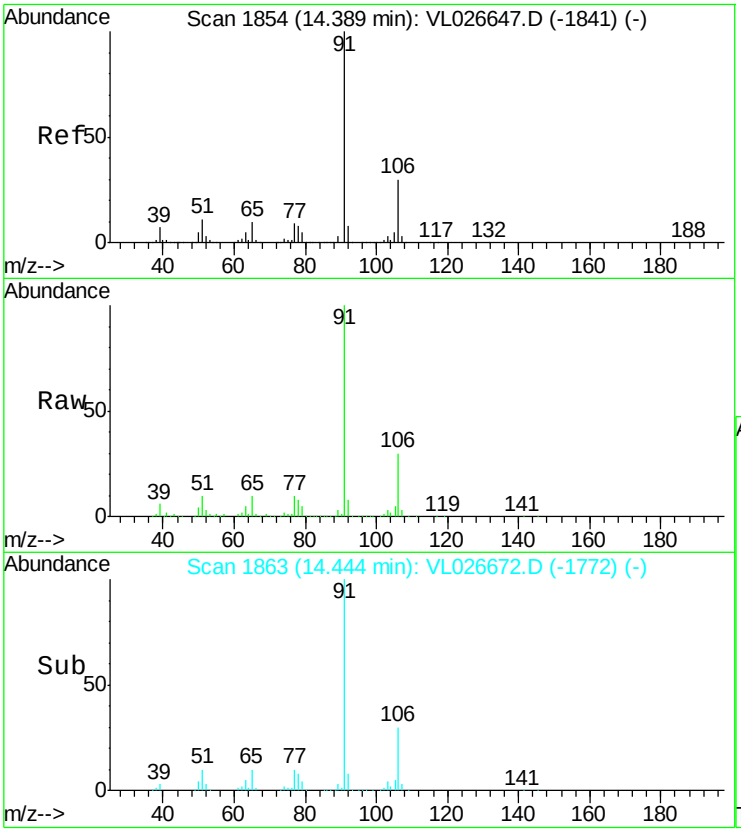


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.77 min Scan# 1753
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:117 Resp: 3014019

Ion	Ratio	Lower	Upper
117	100		
82	66.6	49.7	74.5
119	32.1	43.8	65.8#

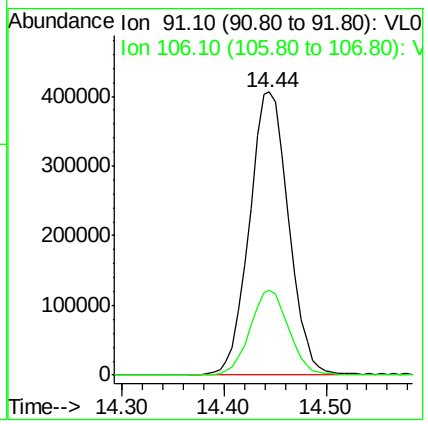




#58
Ethyl Benzene
Concen: 2.01 ppbv
RT: 14.44 min Scan# 1863
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 1083887

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.8	35.6



Instrument :
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ClientSampleId :
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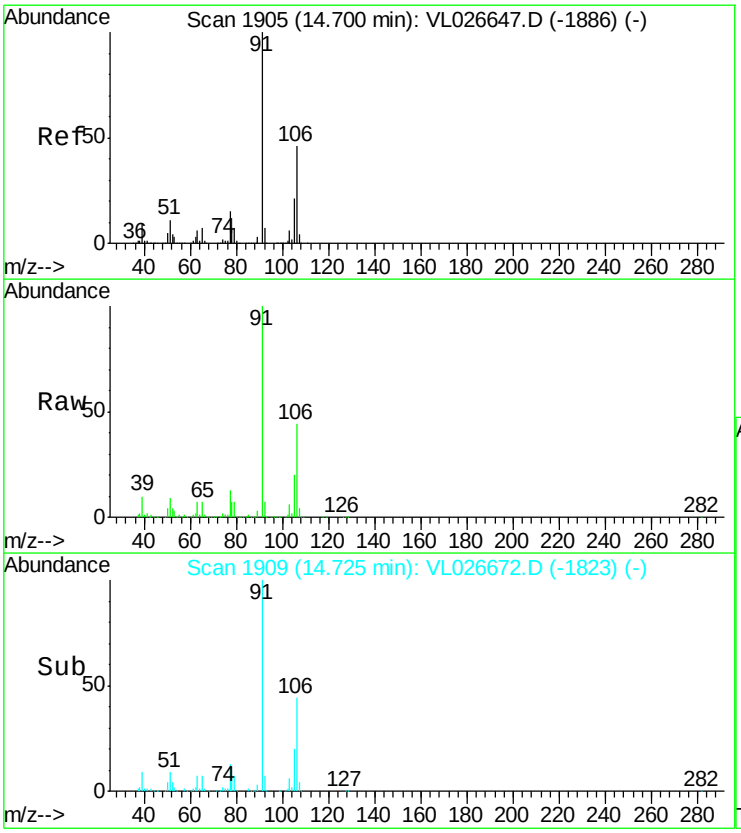
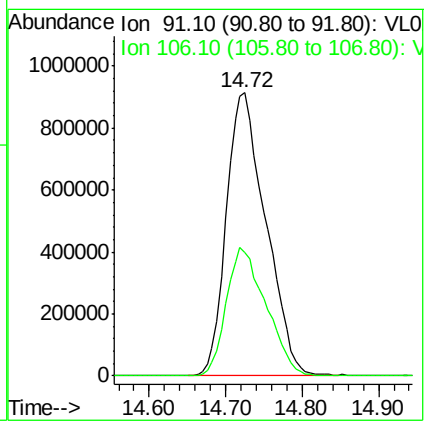
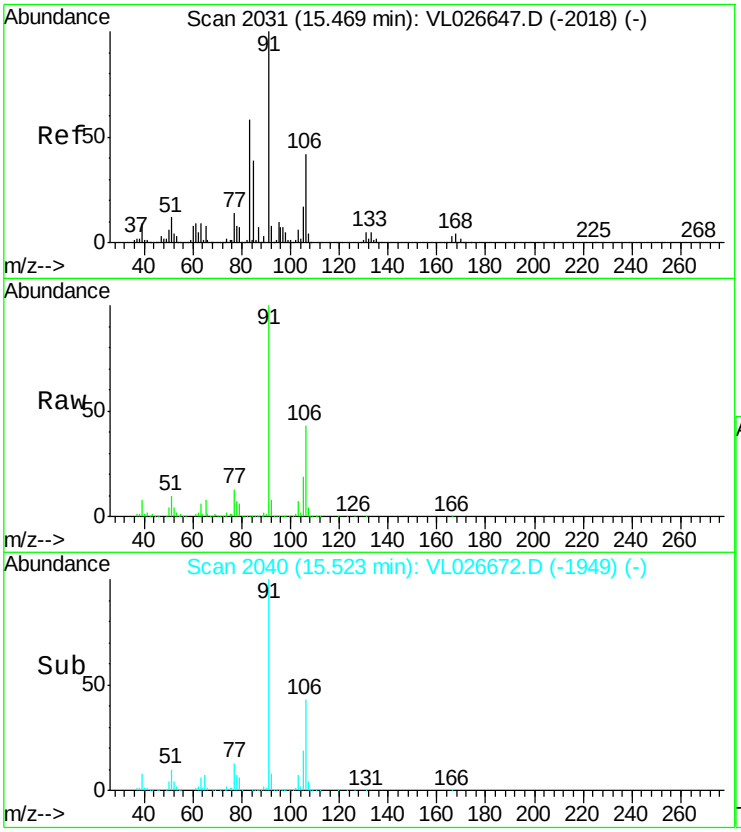


#59
m/p-Xylene
Concen: 7.34 ppbv
RT: 14.72 min Scan# 1909
Delta R.T. 0.02 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 3257492

Ion	Ratio	Lower	Upper
91	100		
106	46.0	36.6	55.0

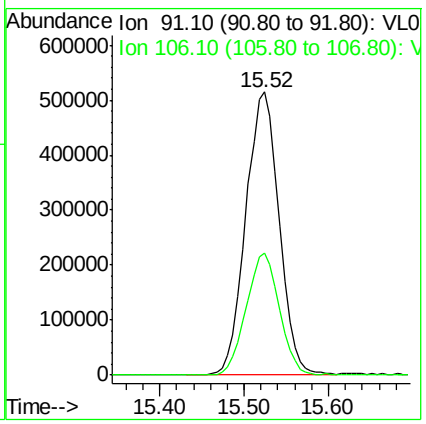




#60
o-Xylene
Concen: 2.87 ppbv
RT: 15.52 min Scan# 2040
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 1378330

Ion	Ratio	Lower	Upper
91	100		
106	43.4	21.5	64.5



Instrument :
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ClientSampleId :
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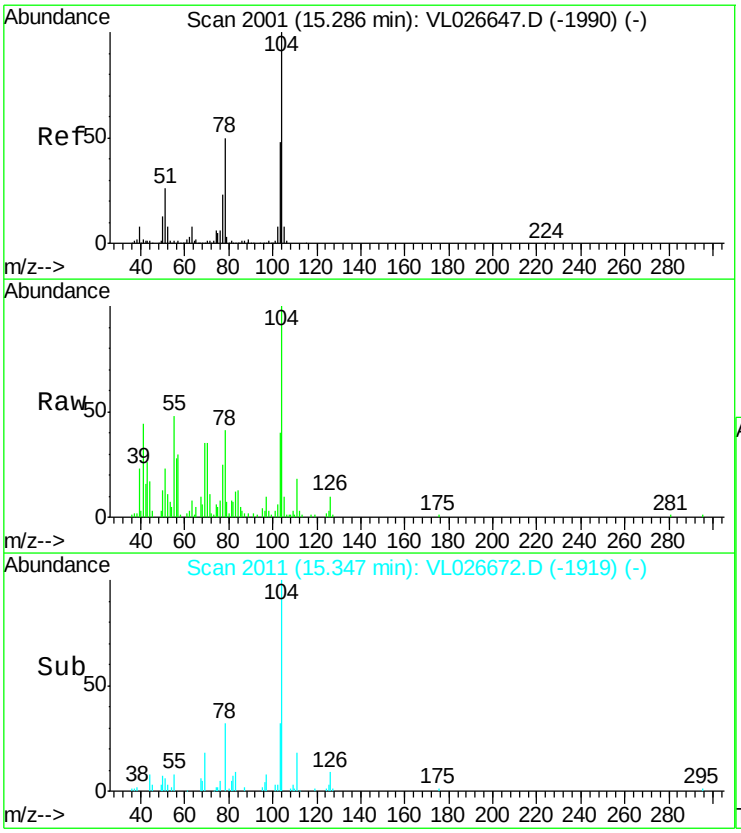
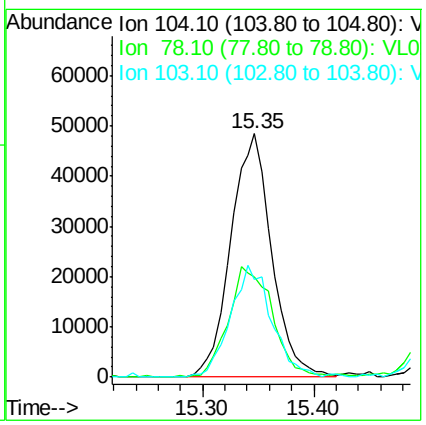
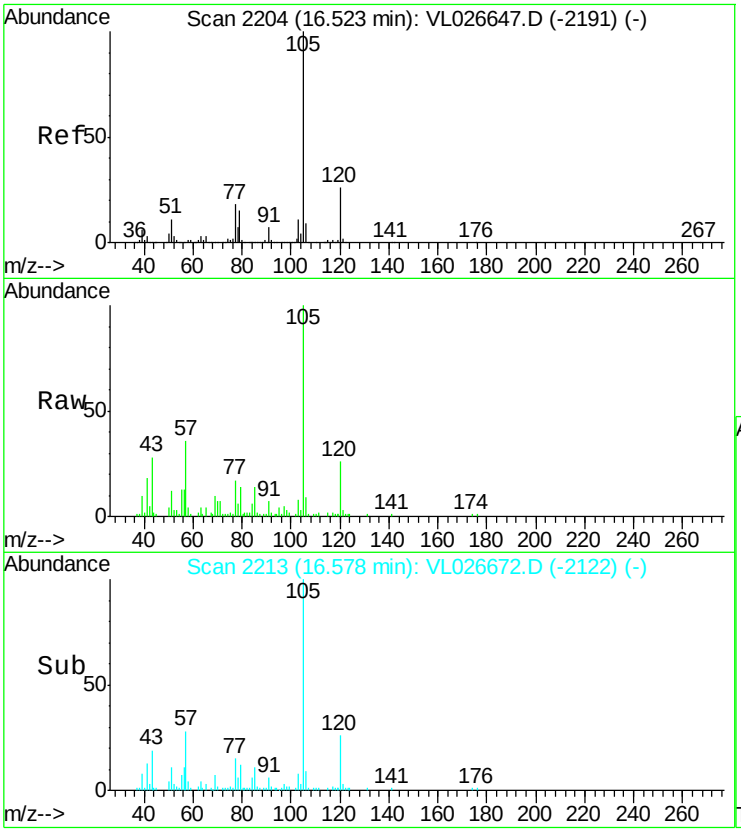


#61
Styrene
Concen: 0.66 ppbv
RT: 15.35 min Scan# 2011
Delta R.T. 0.06 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:104 Resp: 123631

Ion	Ratio	Lower	Upper
104	100		
78	49.5	39.6	59.4
103	46.3	37.8	56.6

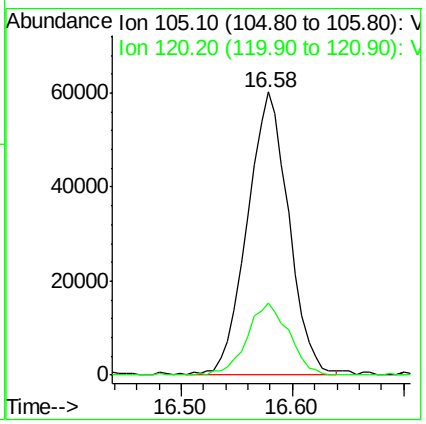




#62
Isopropylbenzene
Concen: 0.25 ppbv
RT: 16.58 min Scan# 2213
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:105 Resp: 156157

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.3	30.5



Instrument :
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ClientSampleId :
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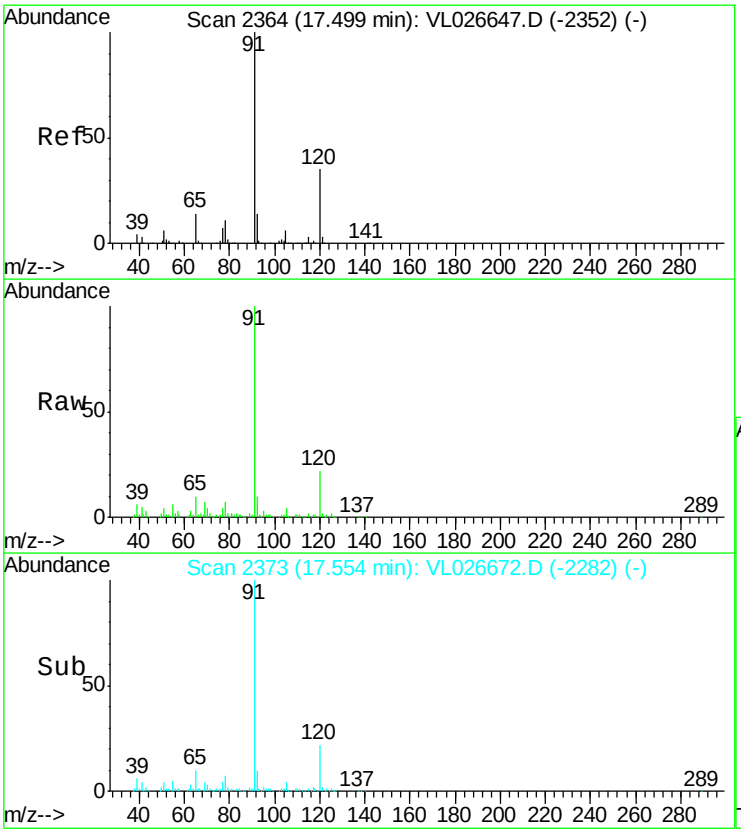
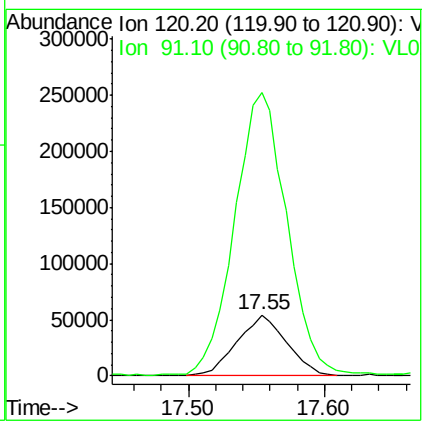
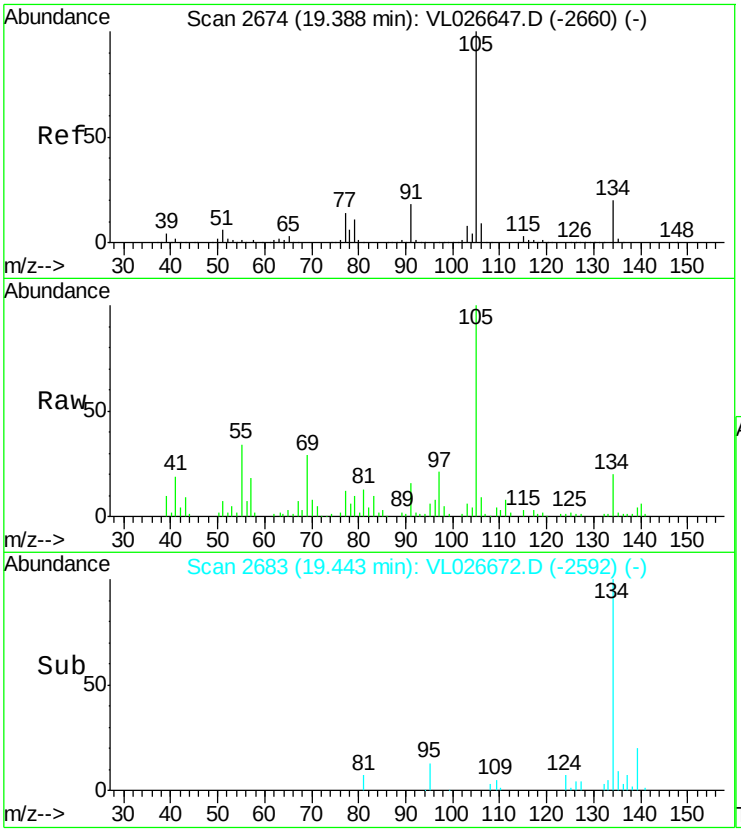


#64
n-propylbenzene
Concen: 0.81 ppbv
RT: 17.55 min Scan# 2373
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:120 Resp: 137902

Ion	Ratio	Lower	Upper
120	100		
91	484.8	375.8	563.6





#67
sec-Butylbenzene
Concen: 0.24 ppbv
RT: 19.44 min Scan# 2683
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:105 Resp: 210613

Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.9	22.3

Instrument :
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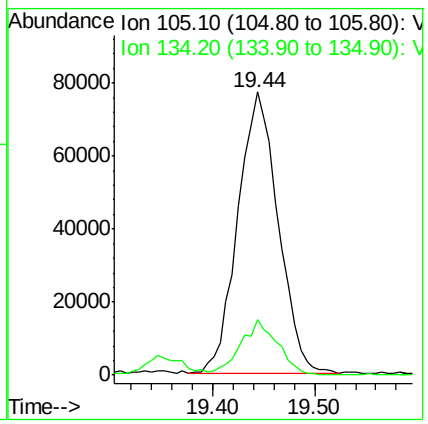
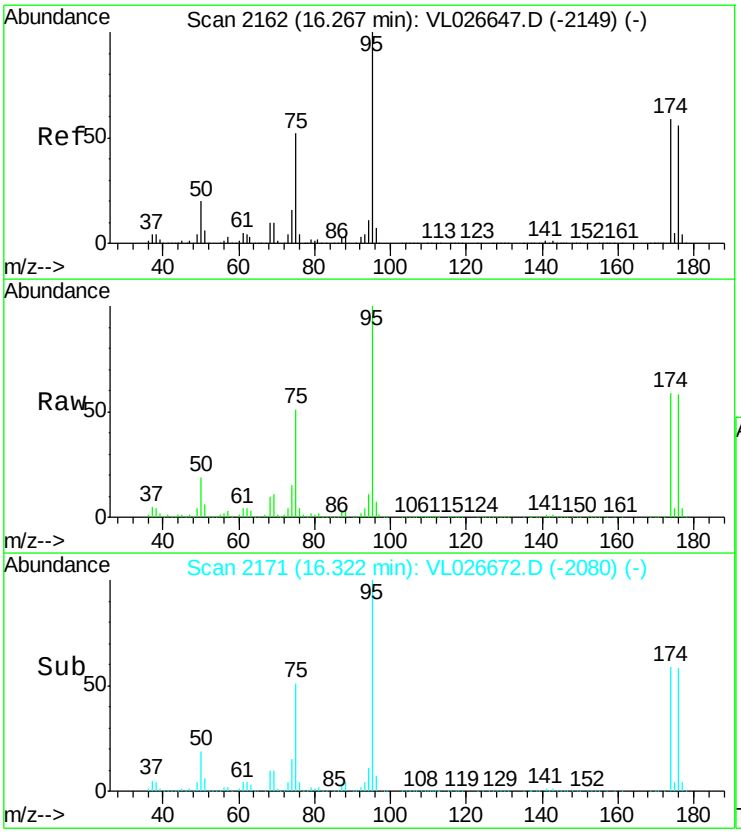
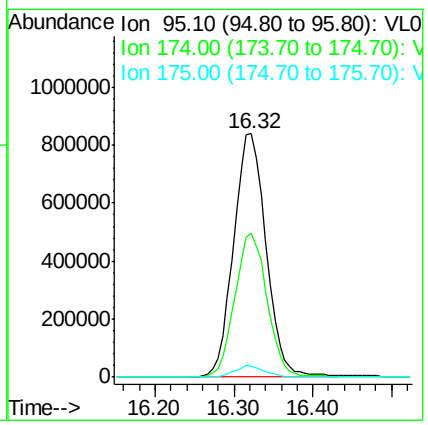


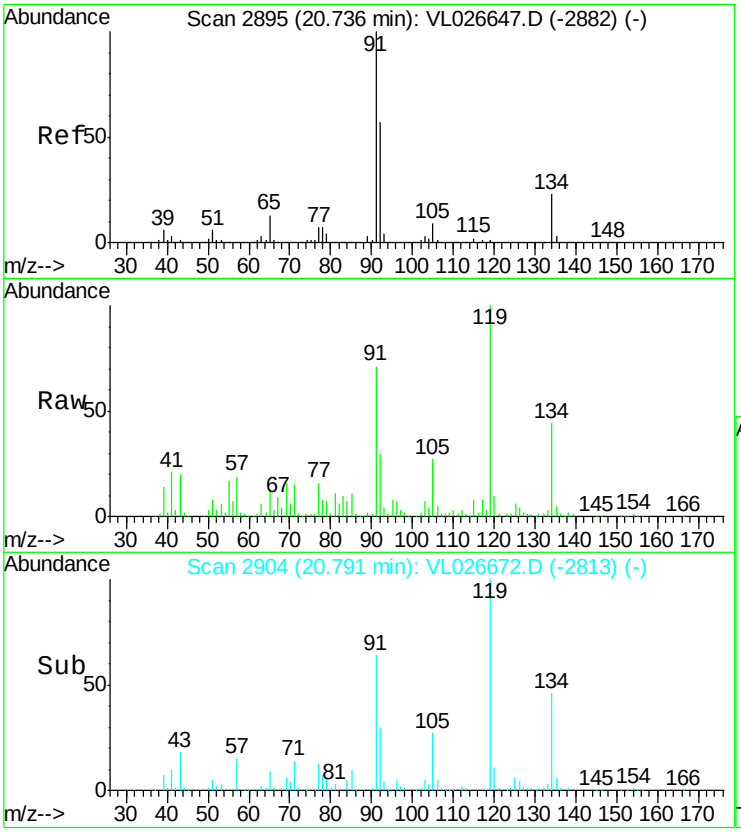


#68
1-Bromo-4-Fluorobenzene
Concen: 10.01 ppbv
RT: 16.32 min Scan# 2171
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 95 Resp: 2403822

Ion	Ratio	Lower	Upper
95	100		
174	59.3	47.8	71.8
175	4.3	3.6	5.4

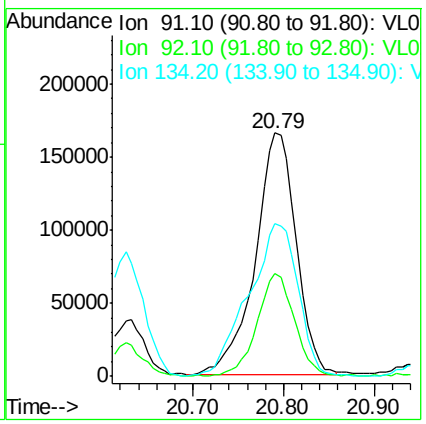




#70
n-Butylbenzene
Concen: 0.75 ppbv
RT: 20.79 min Scan# 2904
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 518447

Ion	Ratio	Lower	Upper
91	100		
92	38.5	45.0	67.4#
134	76.3	18.2	27.2#



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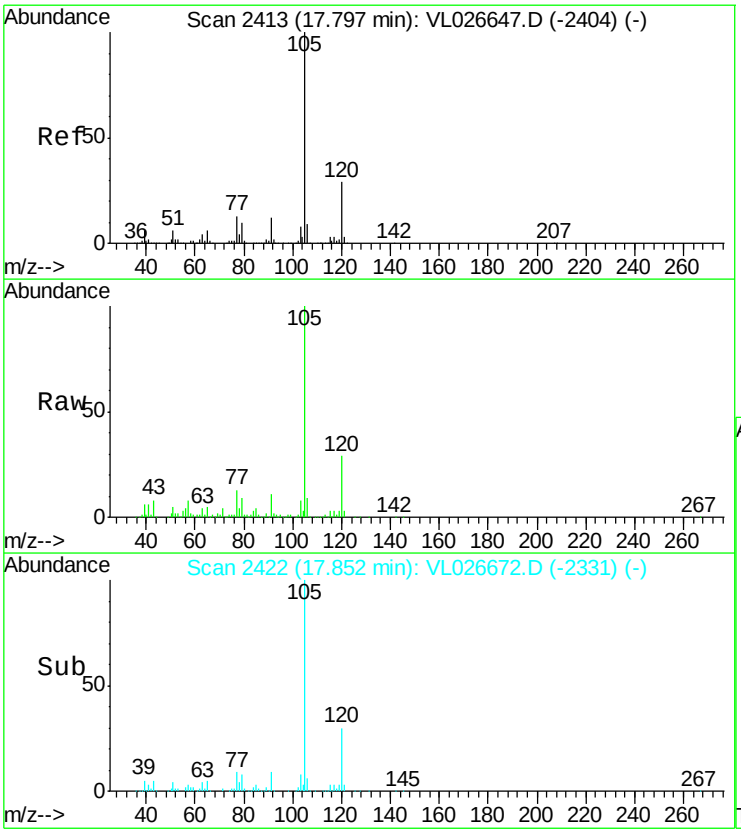
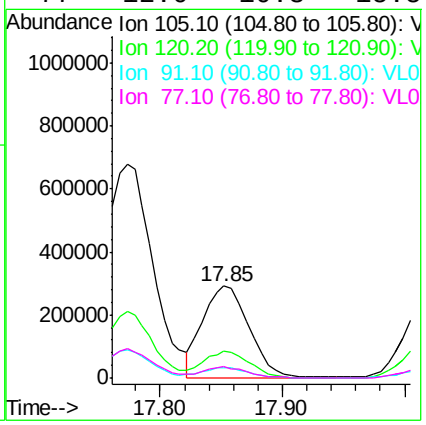
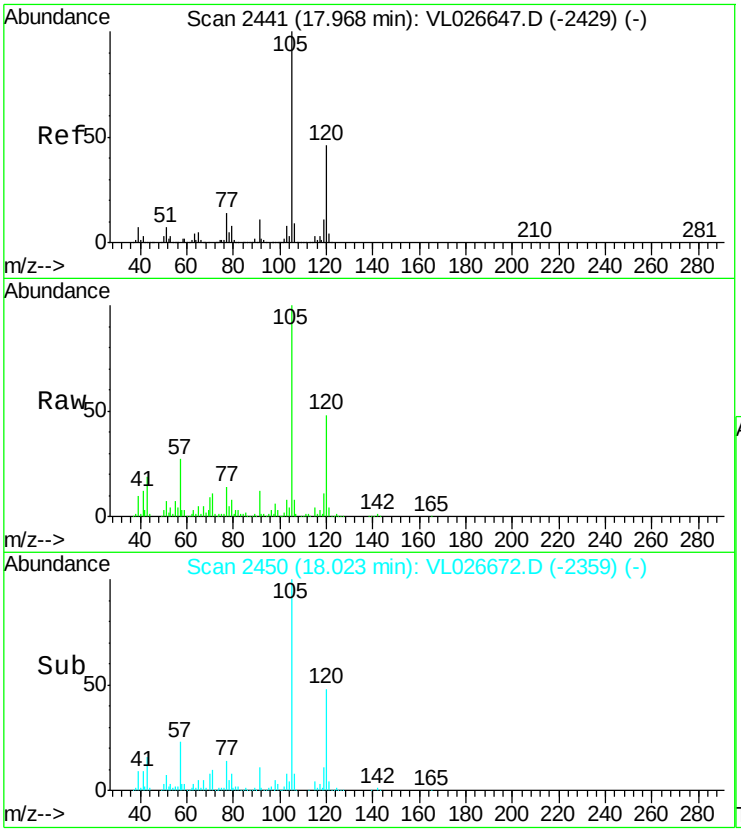


#72
4-Ethyltoluene
Concen: 1.42 ppbv
RT: 17.85 min Scan# 2422
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:105 Resp: 762505

Ion	Ratio	Lower	Upper
105	100		
120	30.3	23.7	35.5
91	11.3	9.7	14.5
77	12.0	10.3	15.5

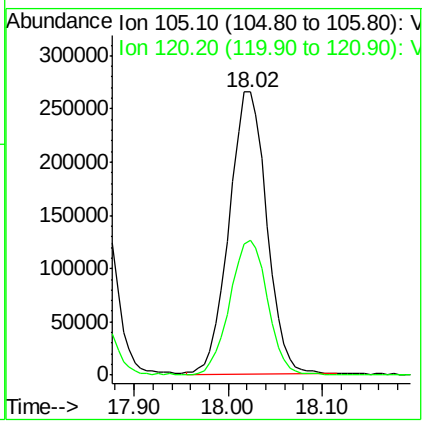




#73
1,3,5-Trimethylbenzene
Concen: 1.45 ppbv
RT: 18.02 min Scan# 2450
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:105 Resp: 736893

Ion	Ratio	Lower	Upper
105	100		
120	47.9	36.6	54.8



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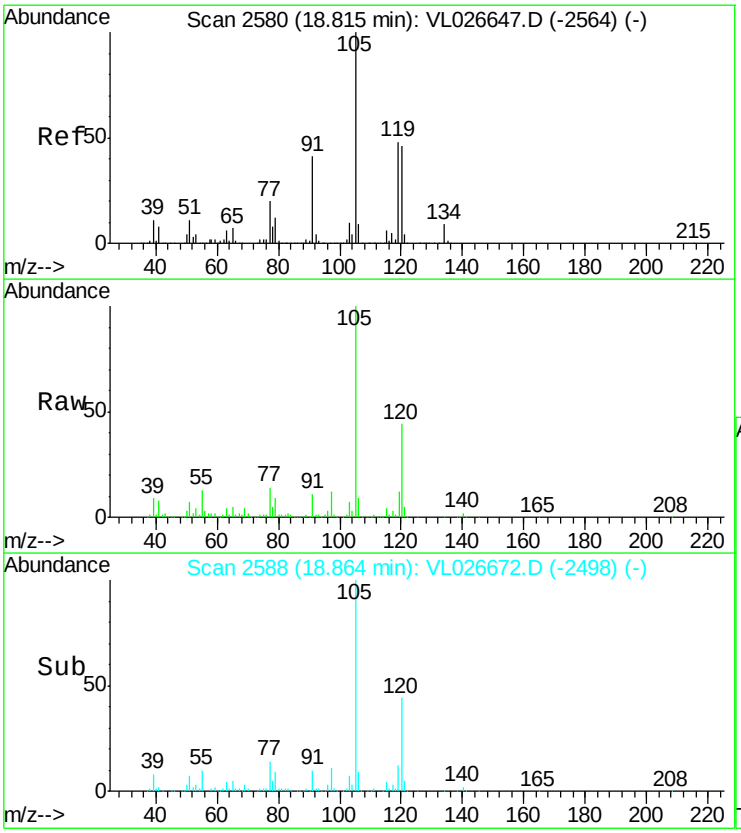
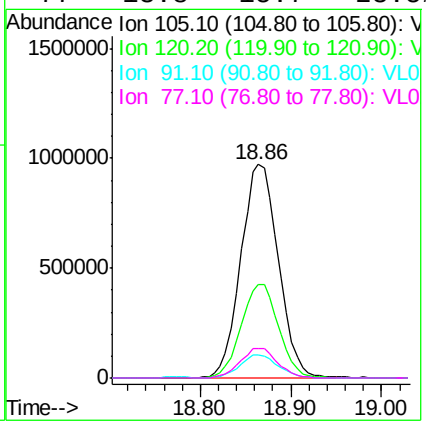
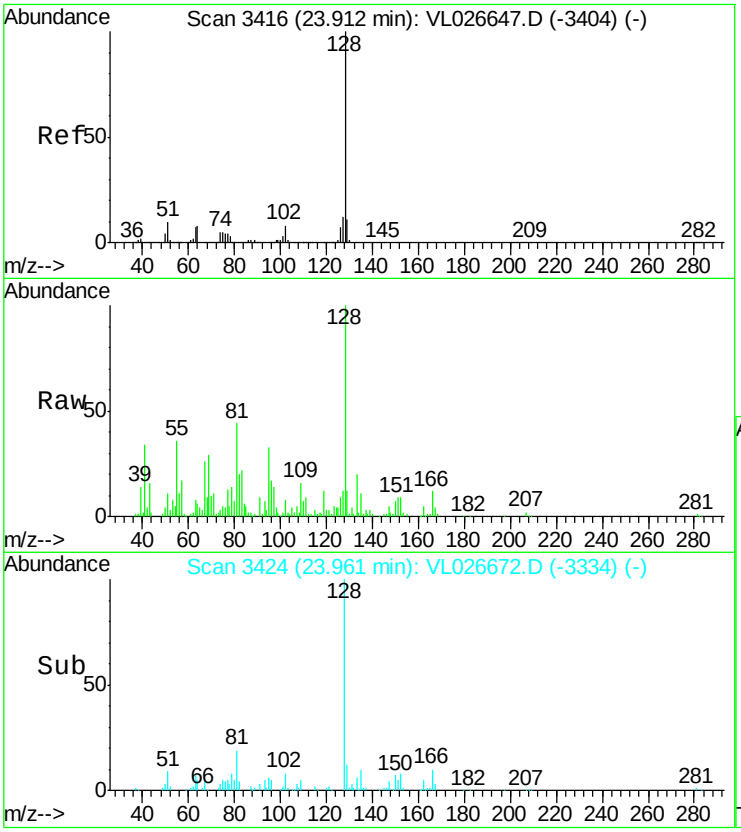


#74
1,2,4-Trimethylbenzene
Concen: 5.15 ppbv
RT: 18.86 min Scan# 2588
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:105 Resp: 2780030

Ion	Ratio	Lower	Upper
105	100		
120	43.7	36.6	55.0
91	10.4	32.5	48.7#
77	13.8	15.7	23.5#

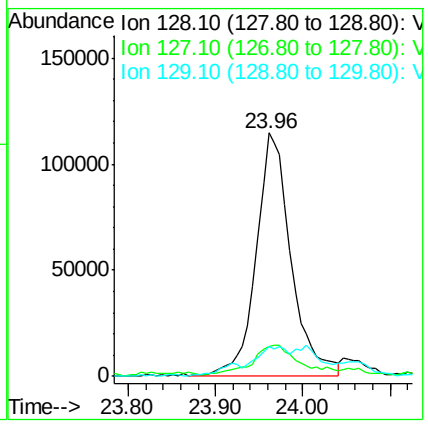




#79
Naphthalene
Concen: 0.86 ppbv
RT: 23.96 min Scan# 3424
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:128 Resp: 314558

Ion	Ratio	Lower	Upper
128	100		
127	10.7	9.8	14.8
129	12.0	8.9	13.3



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ClientSampleId :
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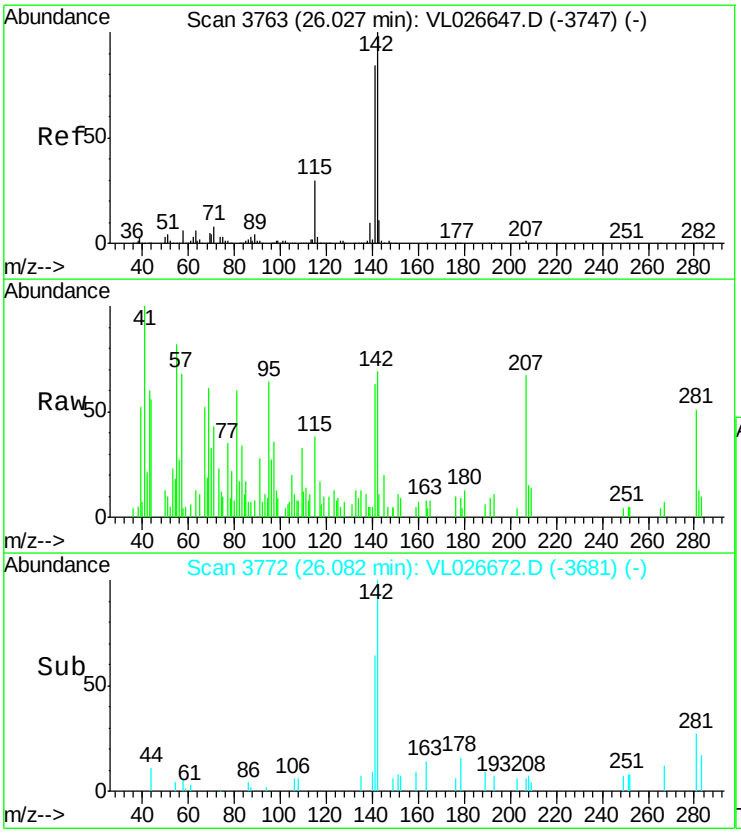

#80
Naphthalene,2-methyl-
Concen: 0.31 ppbv
RT: 26.08 min Scan# 3772
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:142 Resp: 17646

Ion	Ratio	Lower	Upper
142	100		
141	98.9	67.0	100.6
115	148.3	24.7	37.1#