

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026671.D
 Acq On : 12 Jan 2016 12:43
 Operator : SY/AP
 Sample : H1064-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 13 03:00:34 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 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	761943	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	8.35	114	2386553	10.00	ppbv	0.04
55) Chlorobenzene-d5	13.77	117	3019268	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.32	95	2379802	9.89	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.66	85	96934	0.48 ppbv	100
3) Chlorodifluoromethane	3.59	51	279335	2.75 ppbv #	82
4) Chloromethane	3.77	50	24453	0.49 ppbv #	85
7) Chloroethane	4.26	64	927	0.04 ppbv #	44
9) Propene	3.84	41	4171777	114.38 ppbv	84
10) Heptane	9.38	43	852498	6.27 ppbv	97
11) Trichlorofluoromethane	4.71	101	54060	0.26 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	5.32	101	10416	0.08 ppbv	85
13) Ethanol	4.35	45	90035	12.99 ppbv	99
15) Acetone	4.62	43	3516411	28.06 ppbv	92
16) 1,3-Butadiene	3.96	39	265557	5.31 ppbv #	49
17) tert-Butyl alcohol	4.92	59	643143	6.80 ppbv #	83
19) Isopropyl Alcohol	4.79	45	43961	0.85 ppbv #	1
20) Methylene Chloride	5.17	84	40302	0.78 ppbv #	84
21) Allyl Chloride	5.19	41	78281	1.02 ppbv #	61
23) Vinyl Acetate	6.03	43	416412	2.16 ppbv #	51
25) Ethyl Acetate	6.68	43	227140	1.17 ppbv #	84
26) Hexane	6.68	57	314117	3.14 ppbv #	52
29) Chloroform	6.77	83	7377	0.04 ppbv	87
30) Cyclohexane	8.31	84	100779	1.02 ppbv #	70
34) 2-Butanone	6.23	43	128299	1.01 ppbv	94
35) Carbon Tetrachloride	8.19	117	15732	0.07 ppbv	93
36) Benzene	8.04	78	816883	3.33 ppbv	99
38) Trichloroethene	9.09	130	334422	3.05 ppbv	95
39) 1,2-Dichloropropane	8.68	63	5670	0.07 ppbv #	1
41) Tetrahydrofuran	7.13	42	2208	0.04 ppbv #	28
42) Bromodichloromethane	9.03	83	35963	0.17 ppbv #	24
43) Methyl Methacrylate	9.30	69	9329	0.10 ppbv #	1
44) 2,2,4-Trimethylpentane	9.11	57	535441	1.35 ppbv #	73
50) 4-Methyl-2-Pentanone	10.13	43	152517	0.85 ppbv	100
51) 2-Hexanone	11.67	43	13583	0.08 ppbv #	80
52) Tetrachloroethene	12.82	164	39809	0.32 ppbv	97
53) Toluene	11.26	91	2752746	7.95 ppbv	99
57) Chlorobenzene	13.86	112	39286	0.13 ppbv #	31
58) Ethyl Benzene	14.44	91	1029343	1.91 ppbv	97
59) m/p-Xylene	14.71	91	3088895	6.95 ppbv	98
60) o-Xylene	15.52	91	1297504	2.70 ppbv	96
61) Styrene	15.33	104	107847	0.57 ppbv	97
62) Isopropylbenzene	16.57	105	145441	0.23 ppbv	98
64) n-propylbenzene	17.55	120	131450	0.77 ppbv	93
65) tert-Butylbenzene	18.86	119	304941	0.52 ppbv #	77

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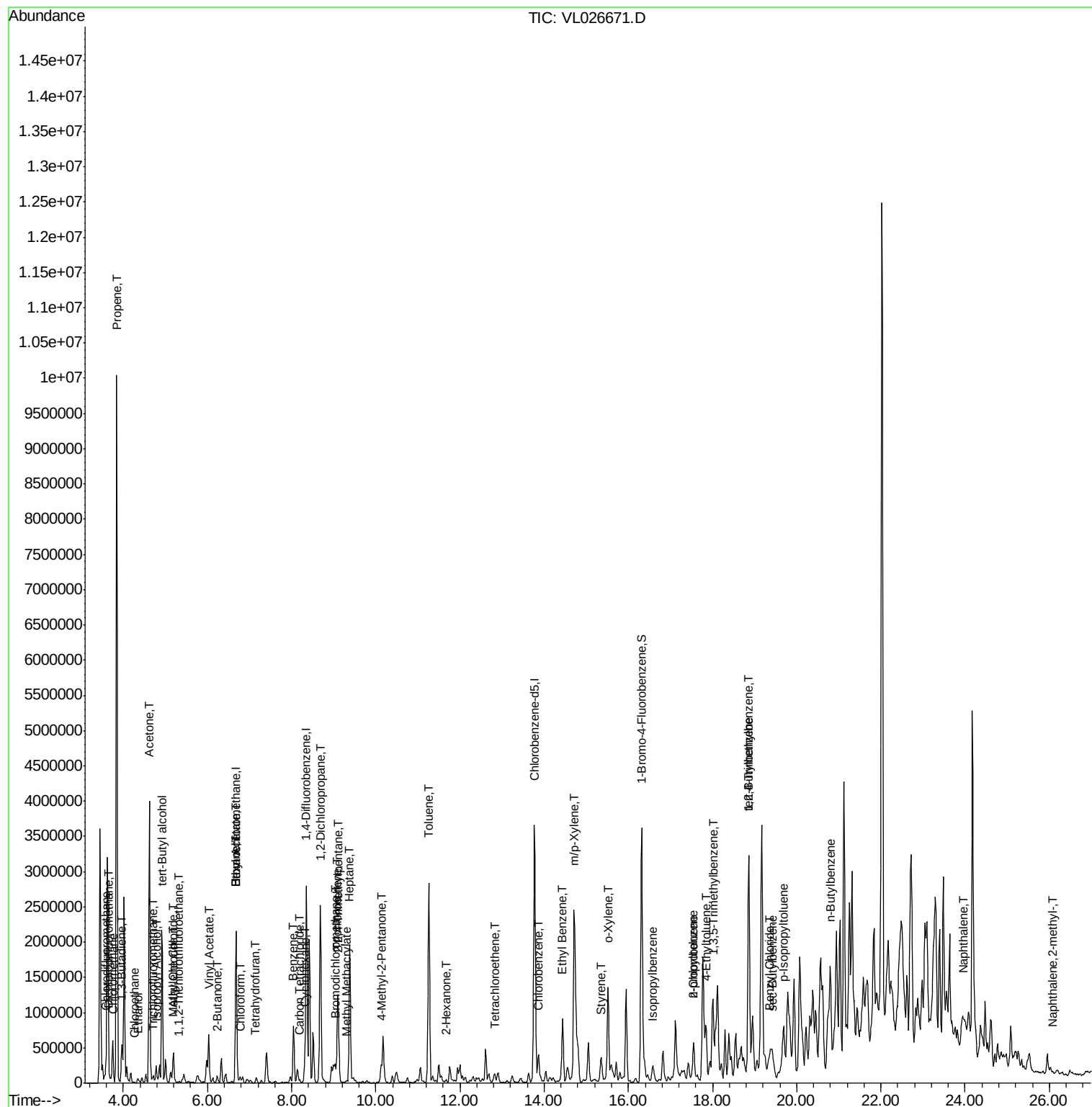
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	19.35	91	56060	0.27	ppbv #	88
67) sec-Butylbenzene	19.44	105	208075	0.24	ppbv	100
69) p-Isopropyltoluene	19.69	119	222040	0.34	ppbv	94
70) n-Butylbenzene	20.79	91	476409	0.69	ppbv #	48
71) 2-Chlorotoluene	17.55	91	631334	1.27	ppbv #	47
72) 4-Ethyltoluene	17.85	105	734927	1.37	ppbv	99
73) 1,3,5-Trimethylbenzene	18.02	105	696846	1.37	ppbv	94
74) 1,2,4-Trimethylbenzene	18.86	105	2669501	4.94	ppbv #	77
79) Naphthalene	23.96	128	299747	0.82	ppbv	95
80) Naphthalene,2-methyl-	26.08	142	15575	0.28	ppbv #	67

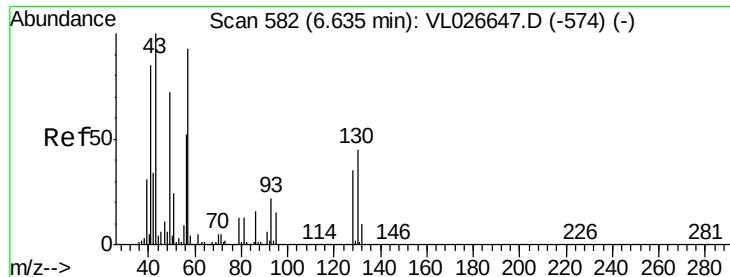
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 589

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :
MSVOA_L
ClientSampleId :

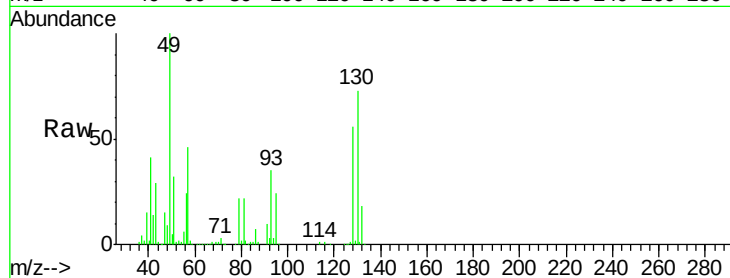
Tot Ion: 49 Resp: 761943

Ion Ratio Lower Upper

49 100

128 57.0 25.9 77.7

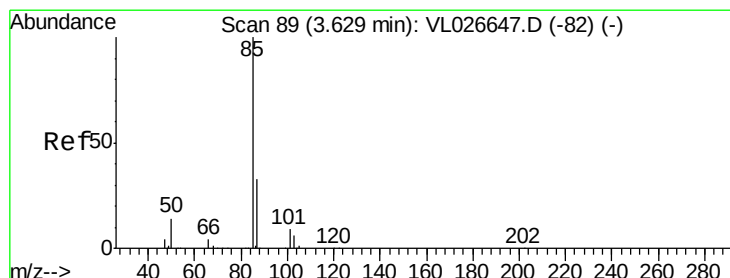
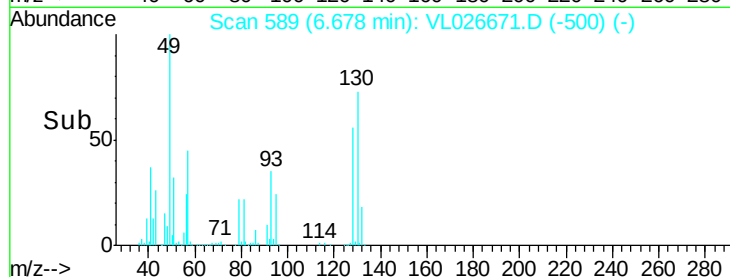
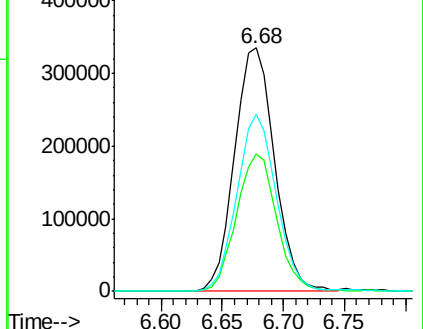
130 72.6 33.6 100.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.48 ppbv

RT: 3.66 min Scan# 94

Delta R.T. 0.03 min

Lab File: VL026671.D

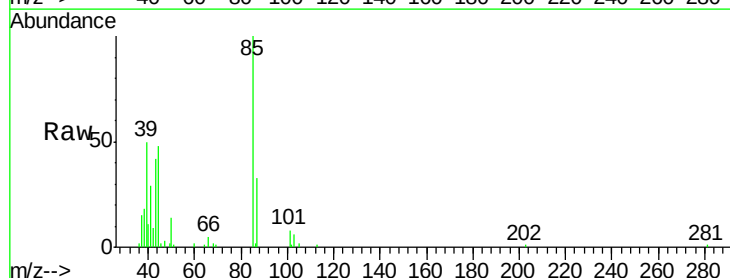
Acq: 12 Jan 2016 12:43

Tgt Ion: 85 Resp: 96934

Ion Ratio Lower Upper

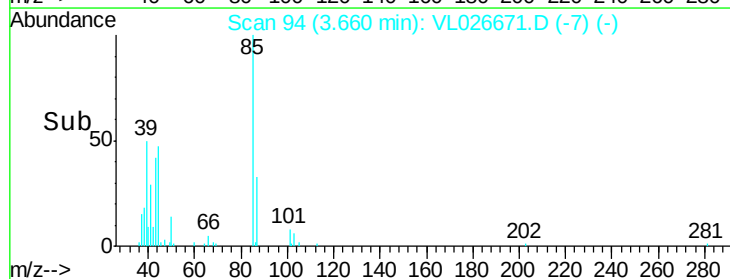
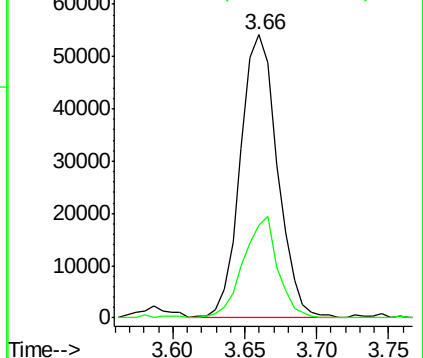
85 100

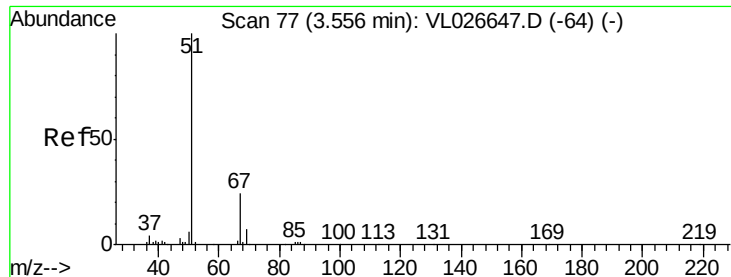
87 32.8 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.75 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.03 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

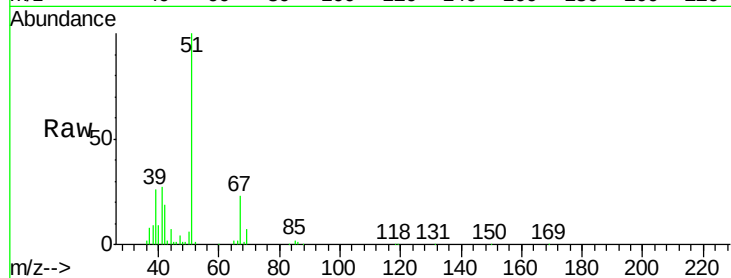
ClientSampleId :

Tot Ion: 51 Resp: 279335

Ion Ratio Lower Upper

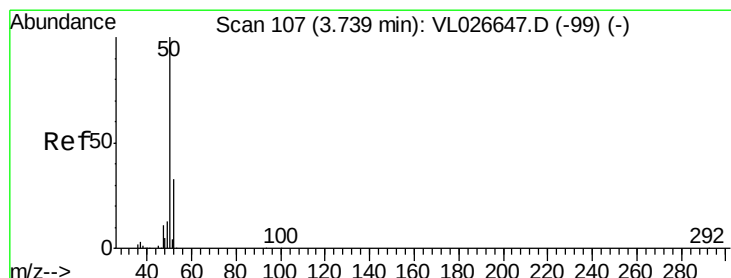
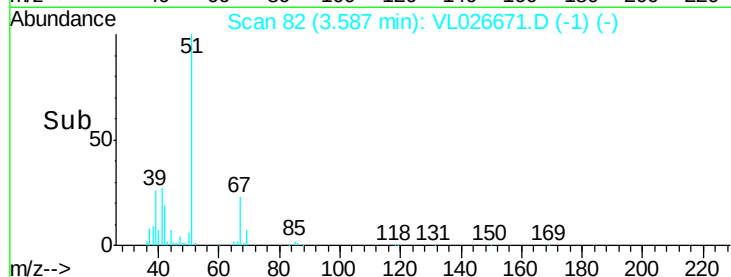
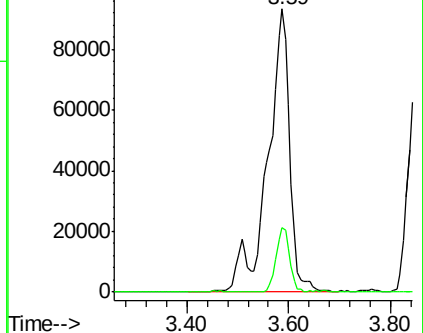
51 100

67 14.5 18.6 28.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.49 ppbv

RT: 3.77 min Scan# 112

Delta R.T. 0.03 min

Lab File: VL026671.D

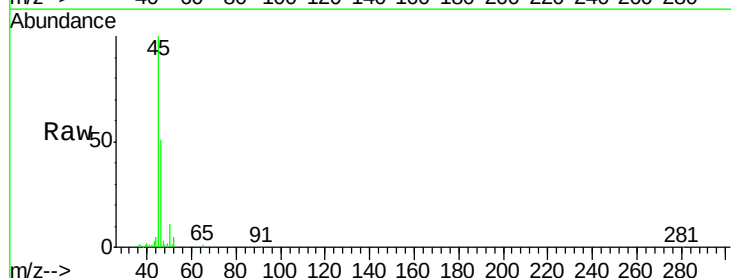
Acq: 12 Jan 2016 12:43

Tgt Ion: 50 Resp: 24453

Ion Ratio Lower Upper

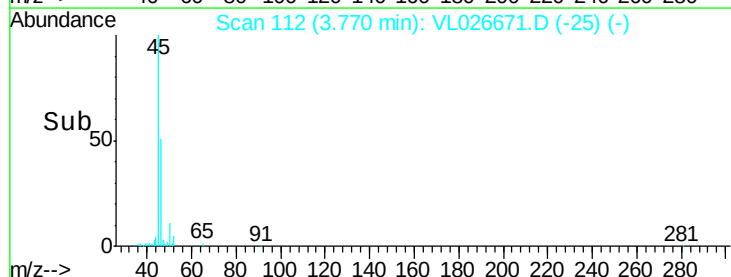
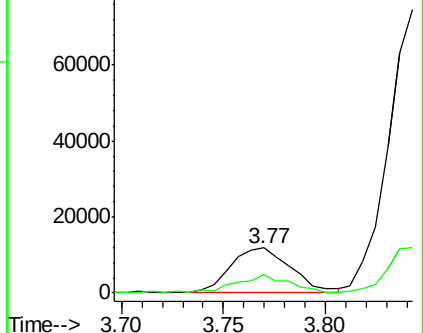
50 100

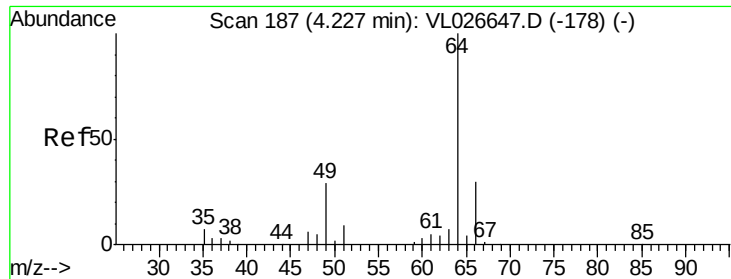
52 41.7 26.7 40.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.04 ppbv

RT: 4.26 min Scan# 193

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

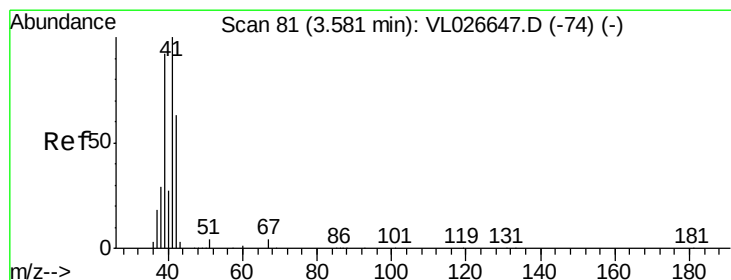
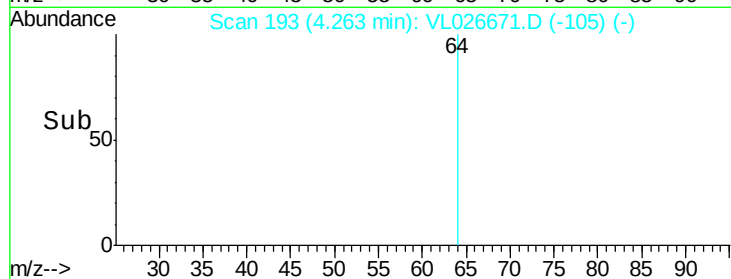
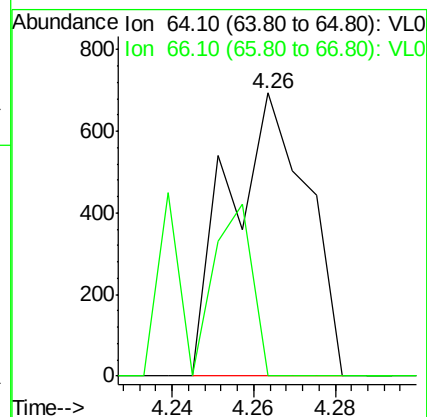
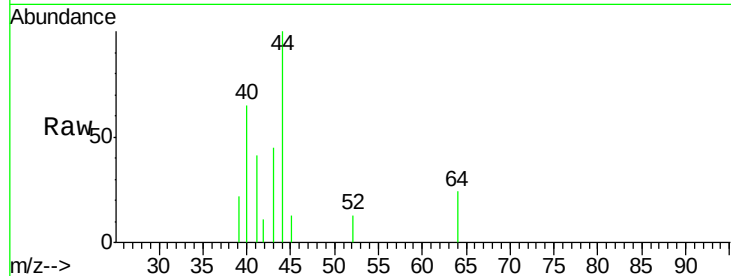
ClientSampleId :

Tot Ion: 64 Resp: 927

Ion Ratio Lower Upper

64 100

66 0.0 24.3 36.5#



#9

Propene

Concen: 114.38 ppbv

RT: 3.84 min Scan# 124

Delta R.T. 0.26 min

Lab File: VL026671.D

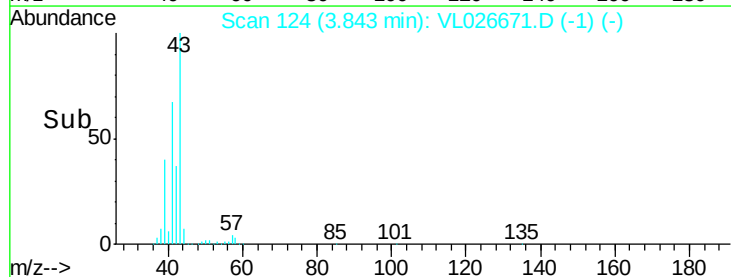
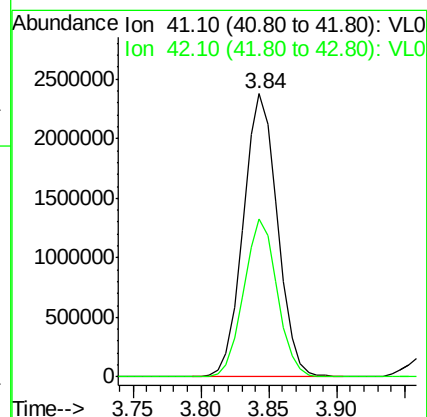
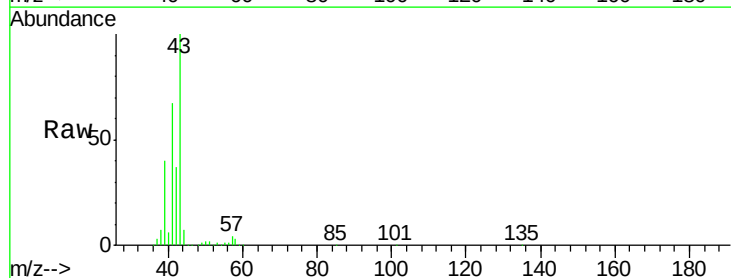
Acq: 12 Jan 2016 12:43

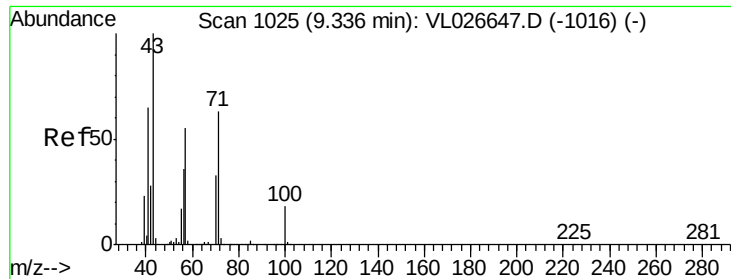
Tgt Ion: 41 Resp: 4171777

Ion Ratio Lower Upper

41 100

42 54.3 53.6 80.4





#10

Heptane

Concen: 6.27 ppbv

RT: 9.38 min Scan# 1032

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

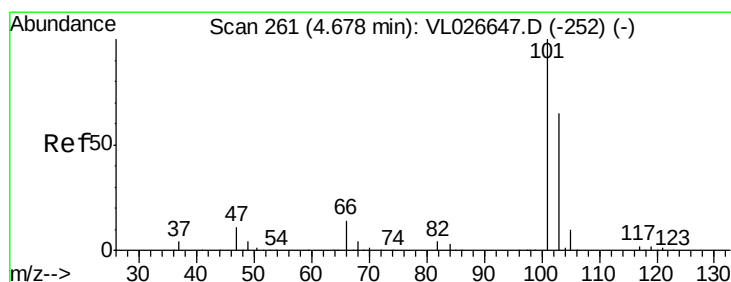
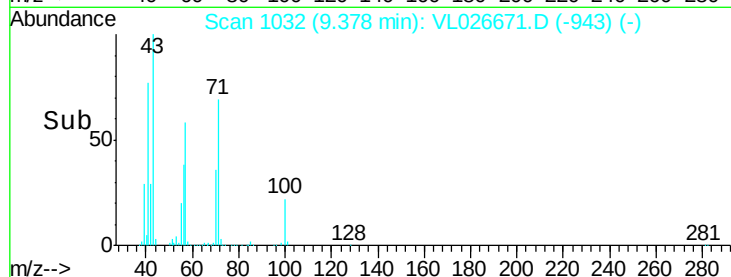
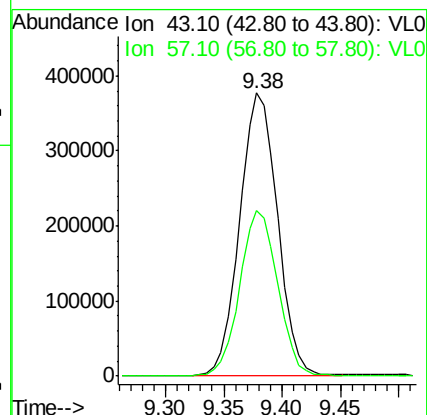
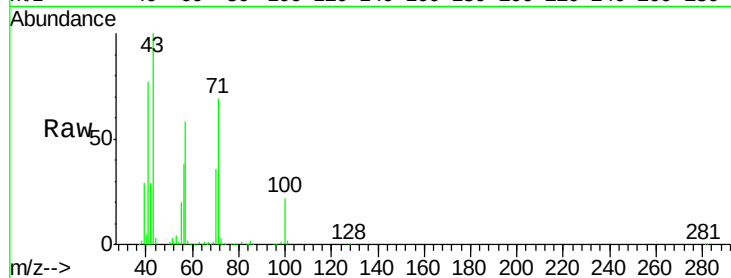
ClientSampleId :

Tot Ion: 43 Resp: 852498

Ion Ratio Lower Upper

43 100

57 59.7 45.8 68.6



#11

Trichlorofluoromethane

Concen: 0.26 ppbv

RT: 4.71 min Scan# 267

Delta R.T. 0.04 min

Lab File: VL026671.D

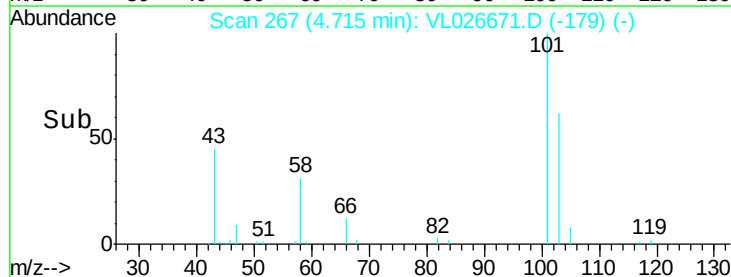
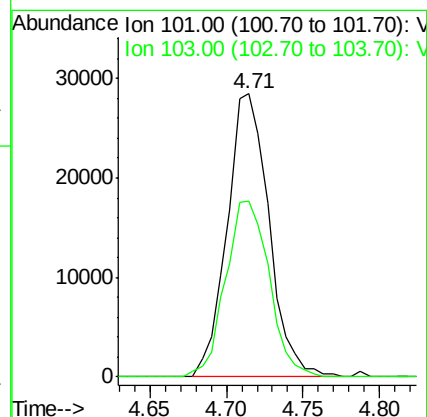
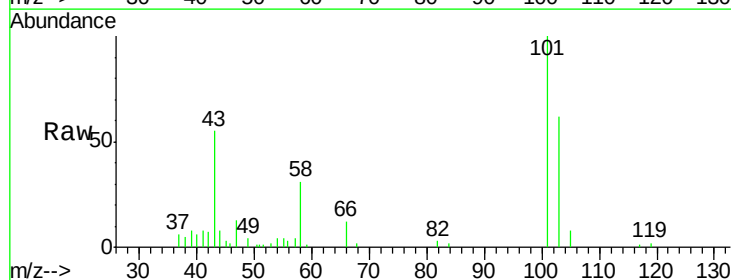
Acq: 12 Jan 2016 12:43

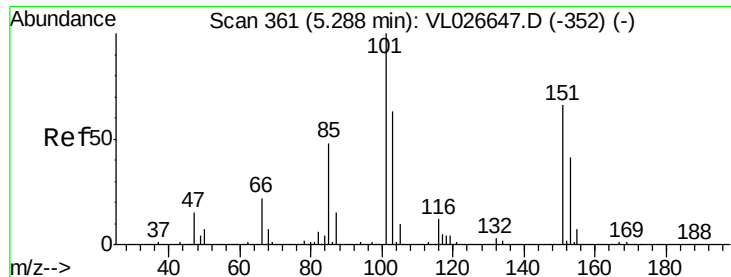
Tgt Ion: 101 Resp: 54060

Ion Ratio Lower Upper

101 100

103 61.9 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.08 ppbv

RT: 5.32 min Scan# 367

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

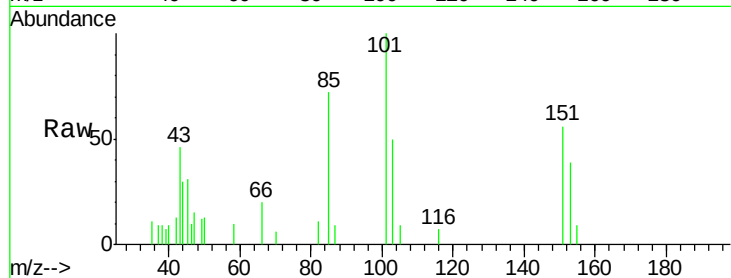
ClientSampleId :

Tot Ion:101 Resp: 10416

Ion Ratio Lower Upper

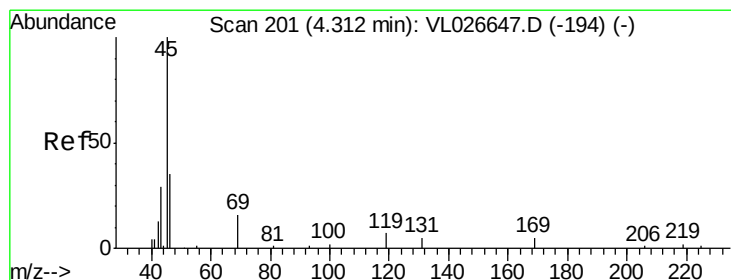
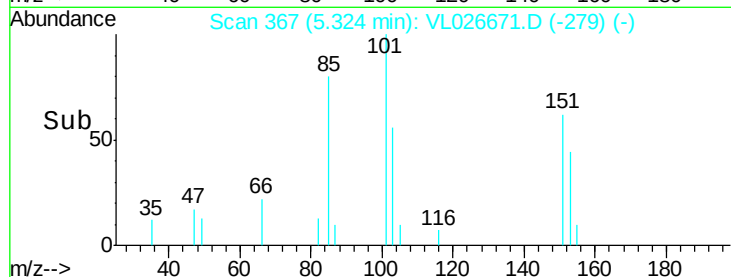
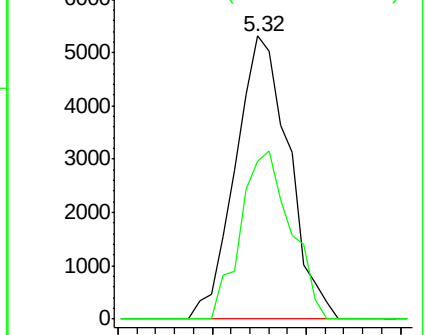
101 100

151 55.8 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.99 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.04 min

Lab File: VL026671.D

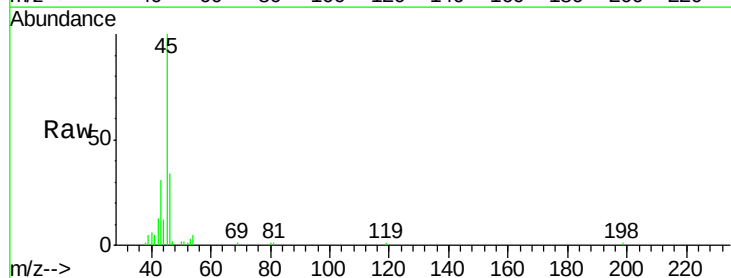
Acq: 12 Jan 2016 12:43

Tgt Ion: 45 Resp: 90035

Ion Ratio Lower Upper

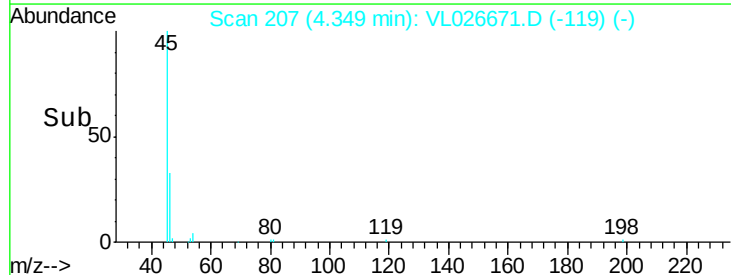
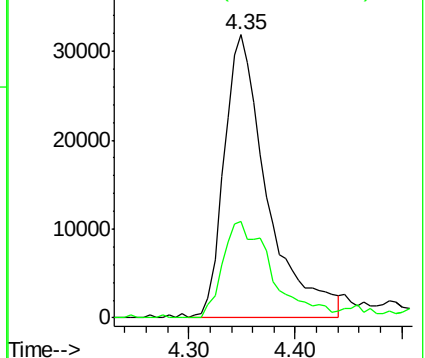
45 100

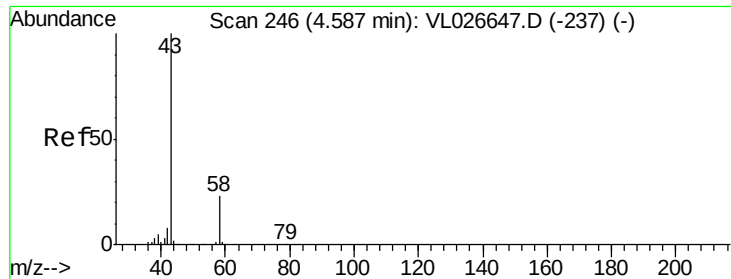
46 42.4 16.7 66.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 28.06 ppbv

RT: 4.62 min Scan# 251

Delta R.T. 0.03 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

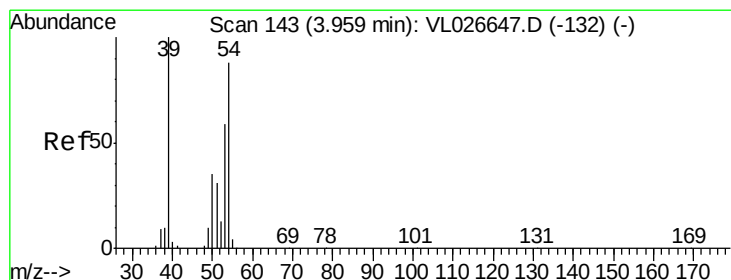
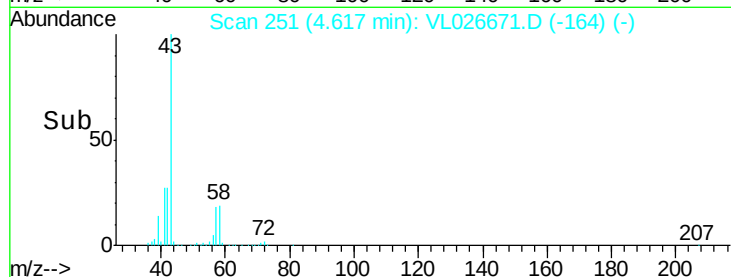
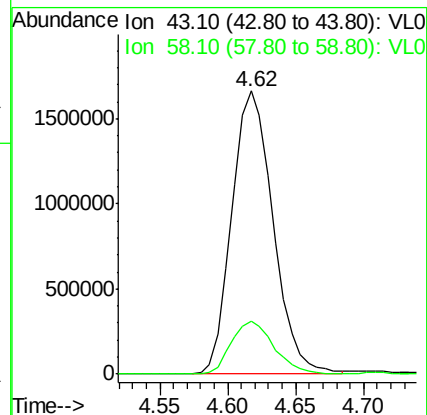
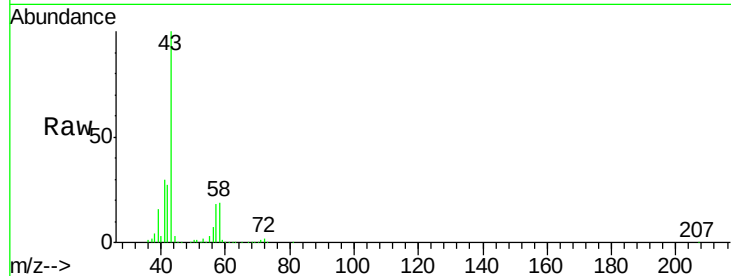
ClientSampleId :

Tot Ion: 43 Resp: 3516411

Ion Ratio Lower Upper

43 100

58 20.1 19.2 28.8



#16

1,3-Butadiene

Concen: 5.31 ppbv

RT: 3.96 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL026671.D

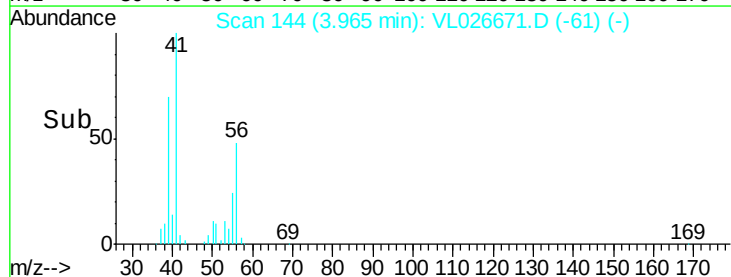
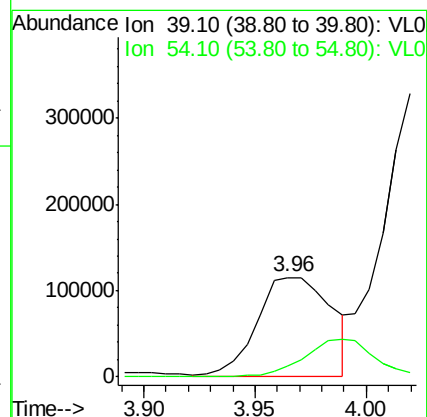
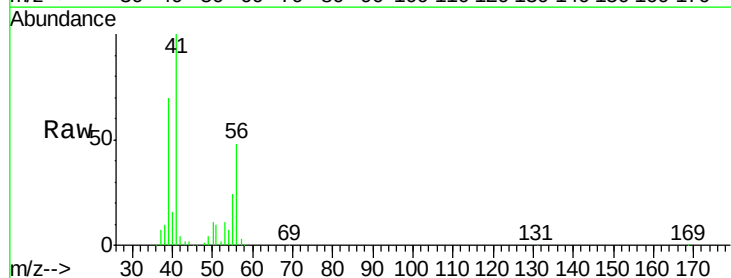
Acq: 12 Jan 2016 12:43

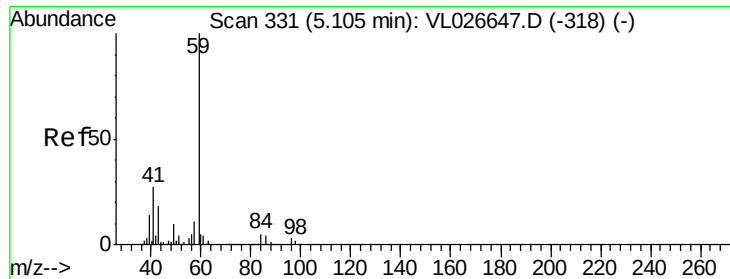
Tgt Ion: 39 Resp: 265557

Ion Ratio Lower Upper

39 100

54 37.3 66.6 100.0#



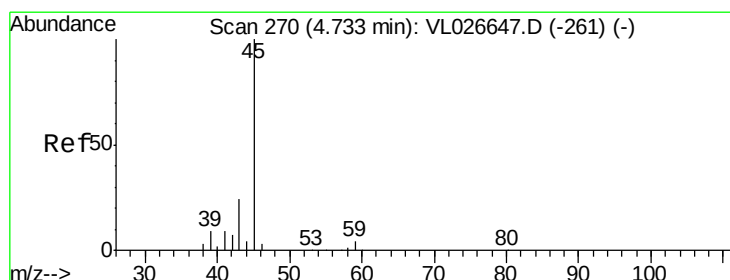
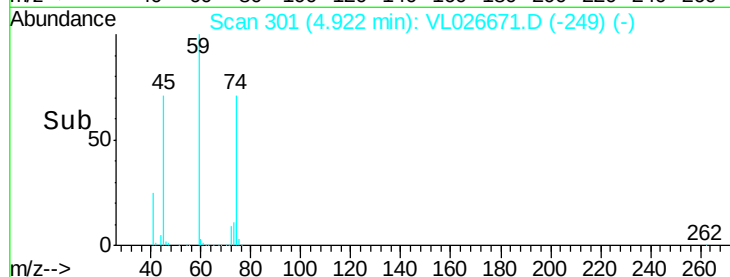
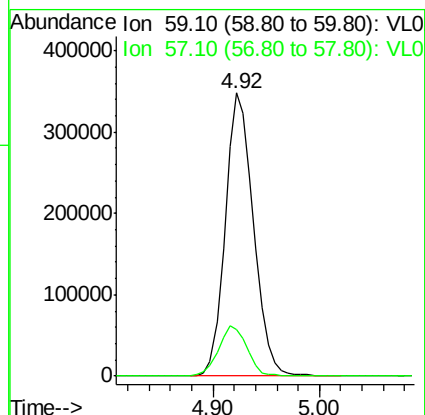
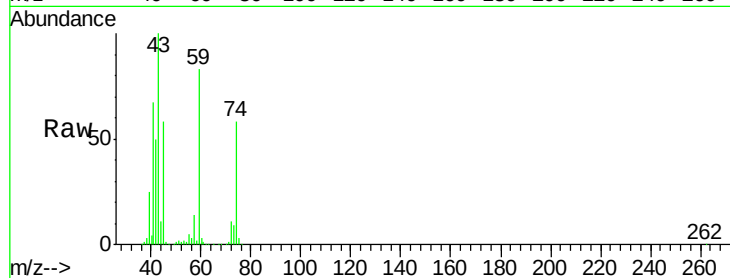


#17

tert-Butyl alcohol
Concen: 6.80 ppbv
RT: 4.92 min Scan# 301
Delta R.T. -0.18 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Instrument :
MSVOA_L
ClientSampleId :

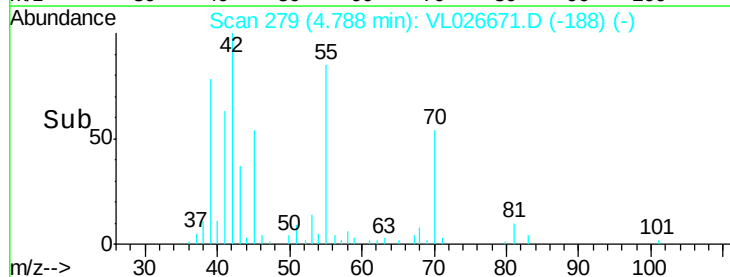
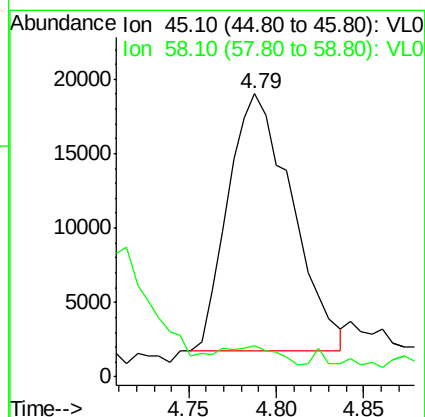
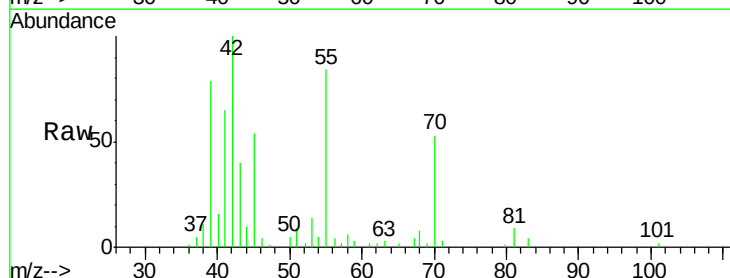
Tot Ion: 59 Resp: 643143
Ion Ratio Lower Upper
59 100
57 18.0 9.0 13.6#

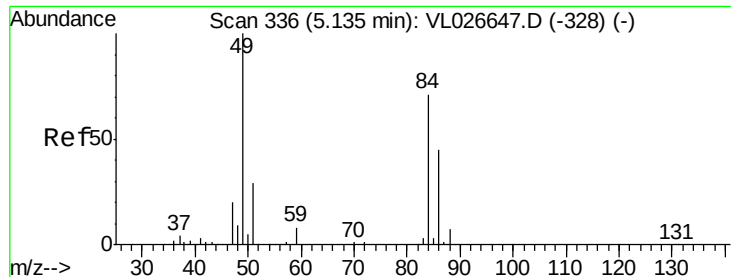


#19

Isopropyl Alcohol
Concen: 0.85 ppbv
RT: 4.79 min Scan# 279
Delta R.T. 0.05 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Tgt Ion: 45 Resp: 43961
Ion Ratio Lower Upper
45 100
58 1608.9 1.3 1.9#

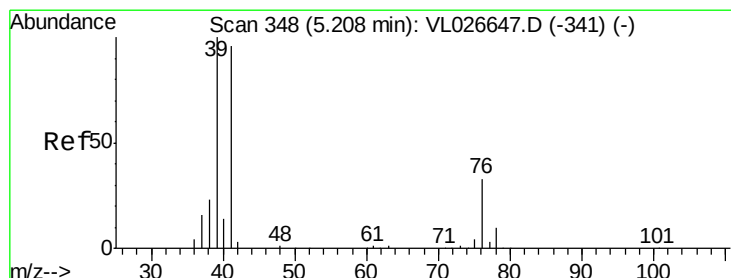
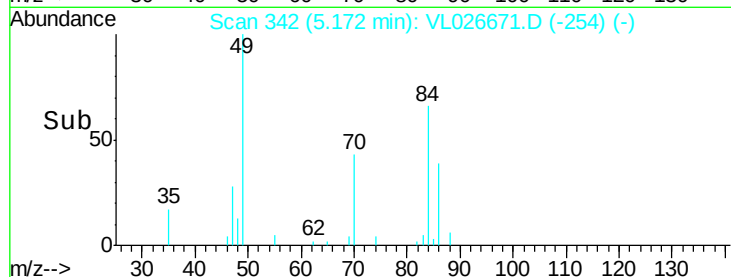
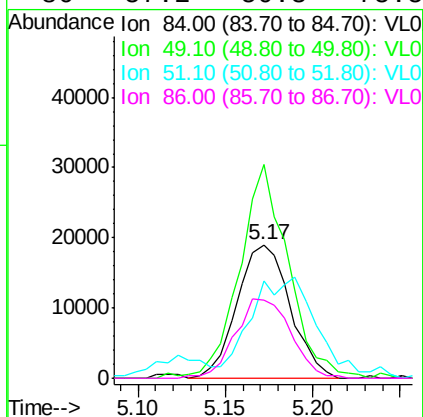
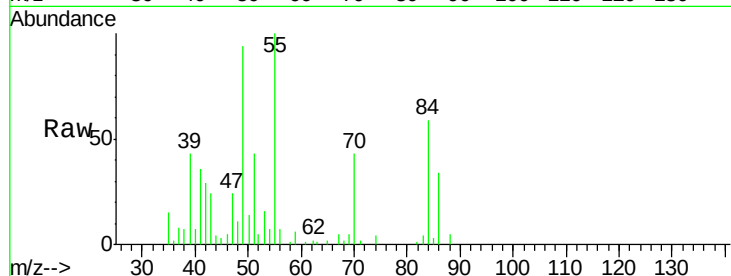




#20
Methylene Chloride
Concen: 0.78 ppbv
RT: 5.17 min Scan# 342
Delta R.T. 0.04 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

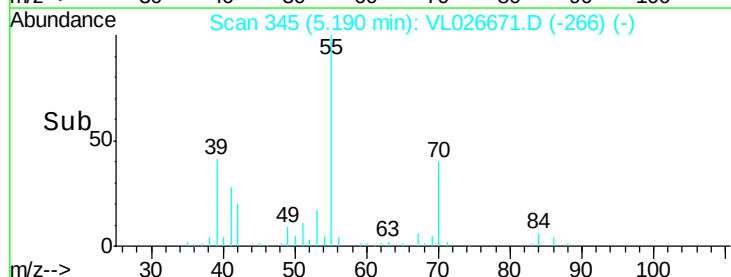
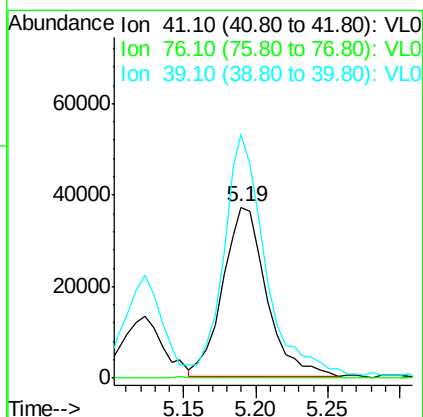
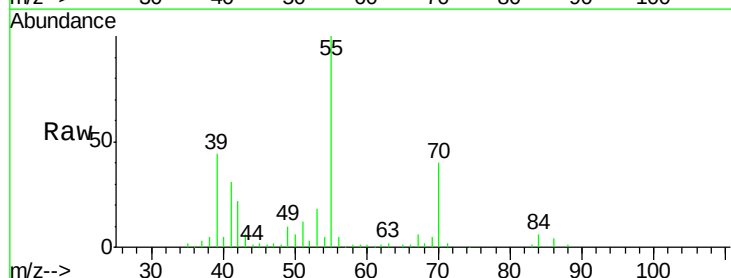
Instrument :
MSVOA_L
ClientSampleId :

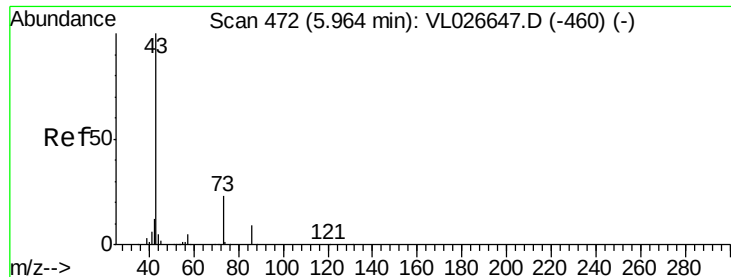
Tot Ion: 84 Resp: 40302
Ion Ratio Lower Upper
84 100
49 157.3 112.3 168.5
51 61.9 32.5 48.7#
86 57.2 50.3 75.5



#21
Allyl Chloride
Concen: 1.02 ppbv
RT: 5.19 min Scan# 345
Delta R.T. -0.02 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Tgt Ion: 41 Resp: 78281
Ion Ratio Lower Upper
41 100
76 0.0 27.5 41.3#
39 136.6 83.0 124.6#





#23

Vinyl Acetate

Concen: 2.16 ppbv

RT: 6.03 min Scan# 483

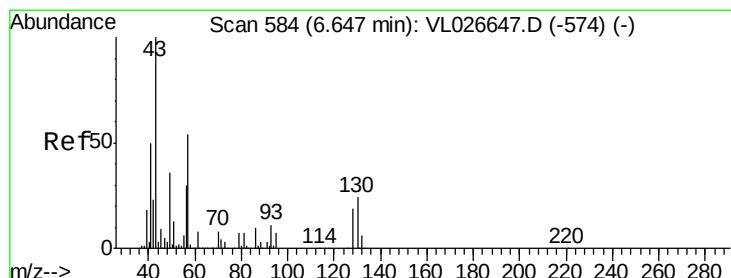
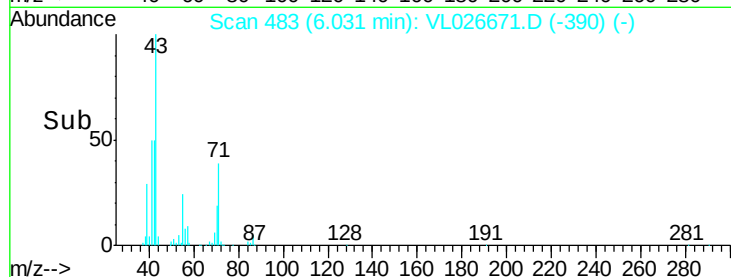
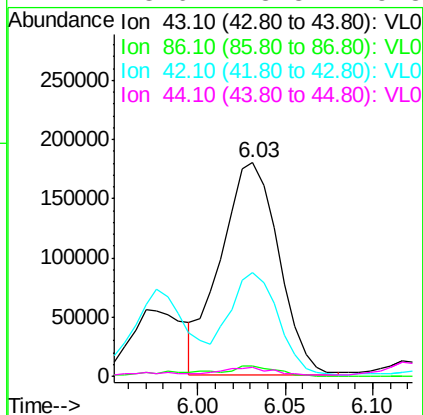
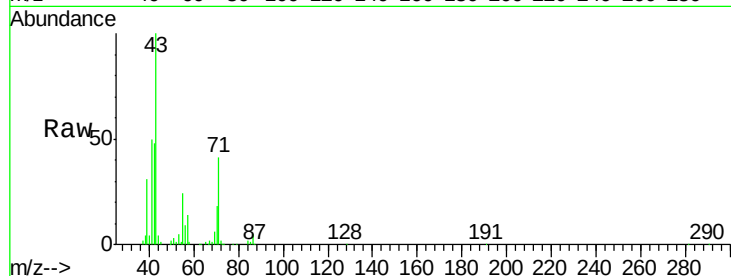
Delta R.T. 0.07 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	416412
Ion	Ratio	Lower	Upper
43	100		
86	4.8	7.4	11.0#
42	48.6	9.2	13.8#
44	3.6	3.8	5.8#



#25

Ethyl Acetate

Concen: 1.17 ppbv

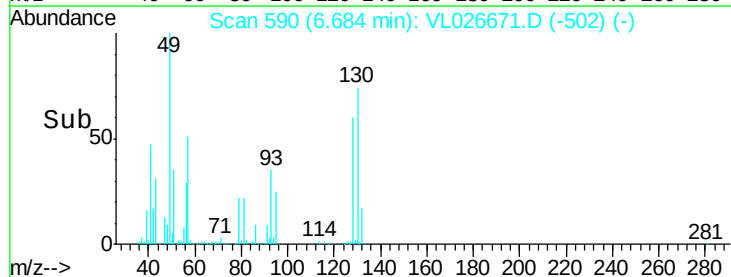
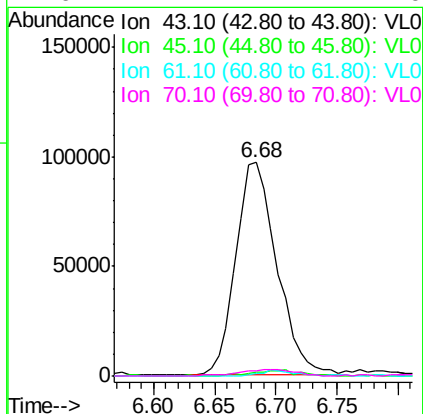
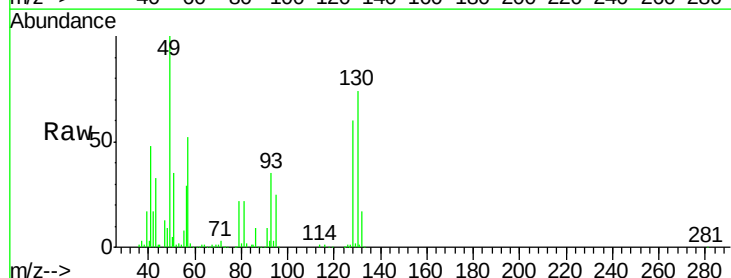
RT: 6.68 min Scan# 590

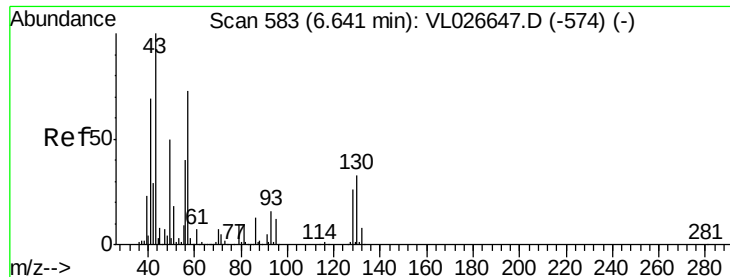
Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Tgt Ion:	43	Resp:	227140
Ion	Ratio	Lower	Upper
43	100		
45	3.3	7.5	11.3#
61	2.7	7.3	10.9#
70	4.2	7.4	11.0#

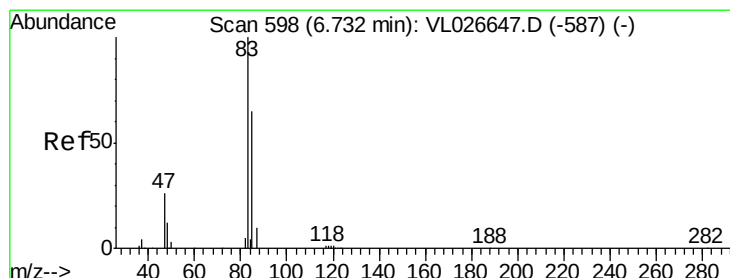
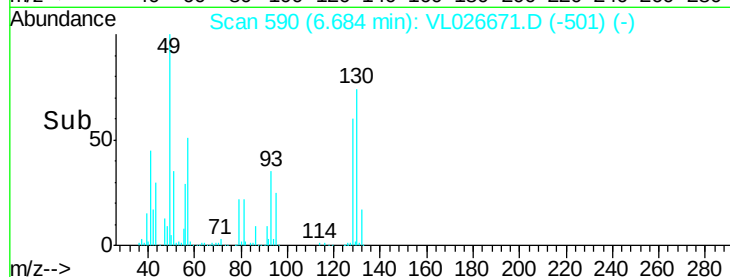
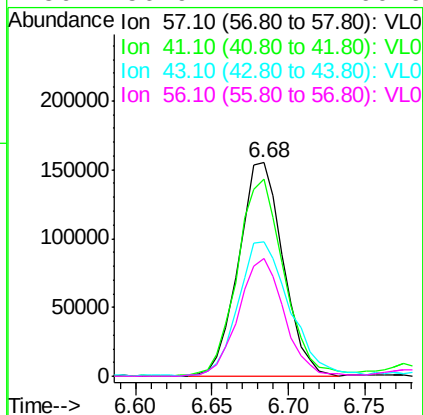
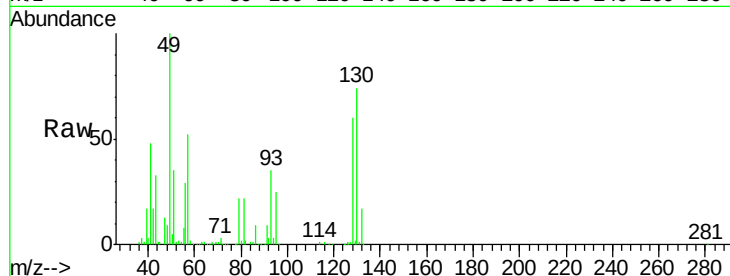




#26
Hexane
Concen: 3.14 ppbv
RT: 6.68 min Scan# 590
Delta R.T. 0.04 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

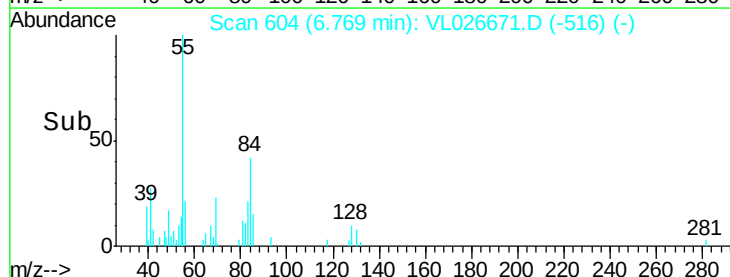
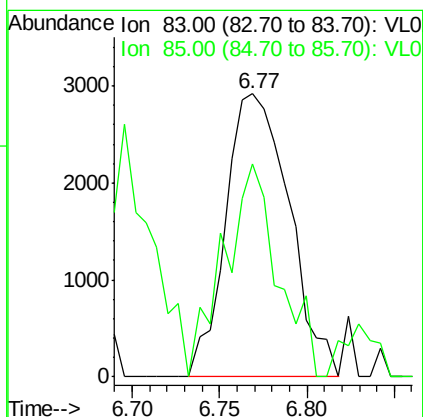
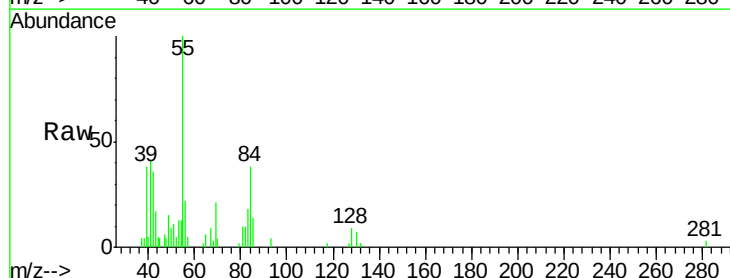
Instrument :
MSVOA_L
ClientSampleId :

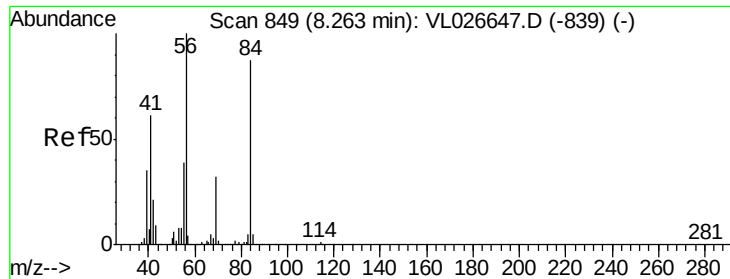
Tot Ion: 57 Resp: 314117
Ion Ratio Lower Upper
57 100
41 96.9 74.8 112.2
43 77.2 161.5 242.3#
56 56.9 44.4 66.6



#29
Chloroform
Concen: 0.04 ppbv
RT: 6.77 min Scan# 604
Delta R.T. 0.04 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Tgt Ion: 83 Resp: 7377
Ion Ratio Lower Upper
83 100
85 75.1 51.6 77.4





#30

Cyclohexane

Concen: 1.02 ppbv

RT: 8.31 min Scan# 857

Delta R.T. 0.05 min

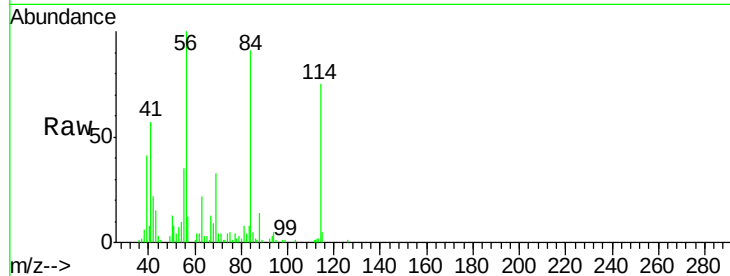
Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

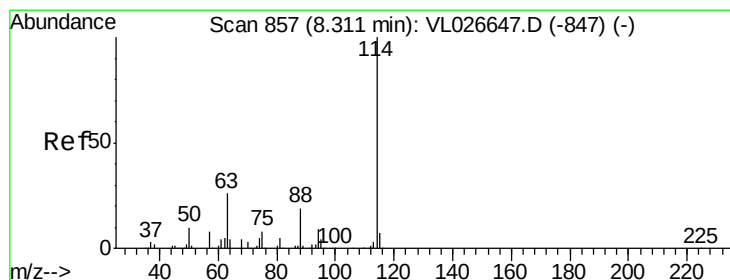
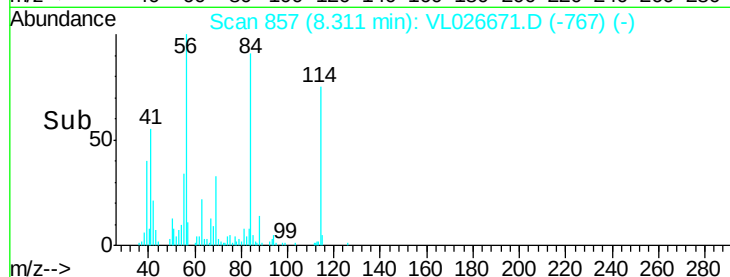
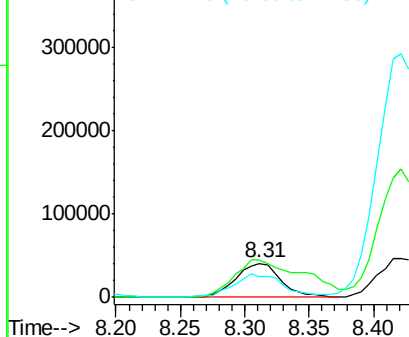
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 100779

Ion	Ratio	Lower	Upper
84	100		
56	170.2	95.9	143.9#
41	71.9	54.8	82.2



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.35 min Scan# 863

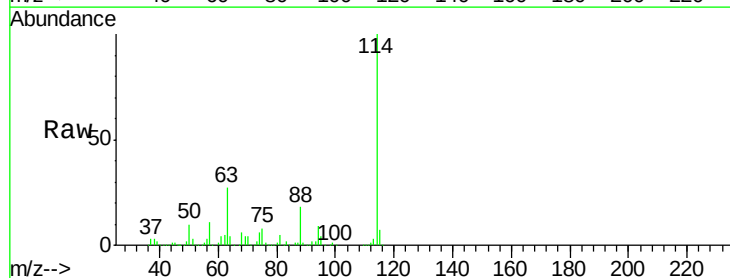
Delta R.T. 0.04 min

Lab File: VL026671.D

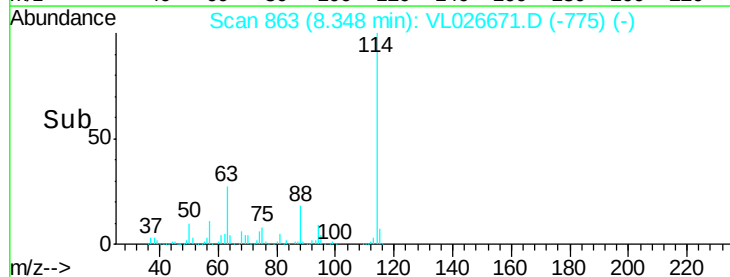
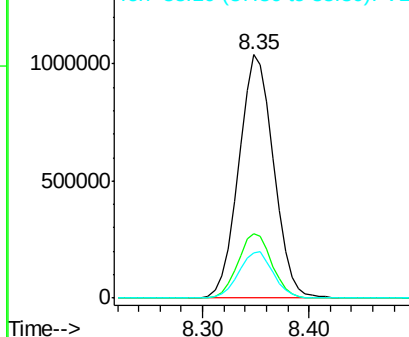
Acq: 12 Jan 2016 12:43

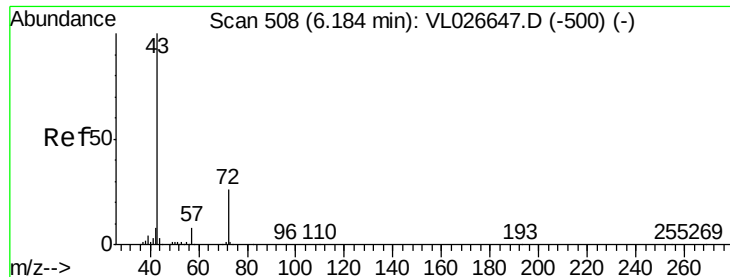
Tgt Ion: 114 Resp: 2386553

Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.7	32.5
88	18.9	15.2	22.8



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

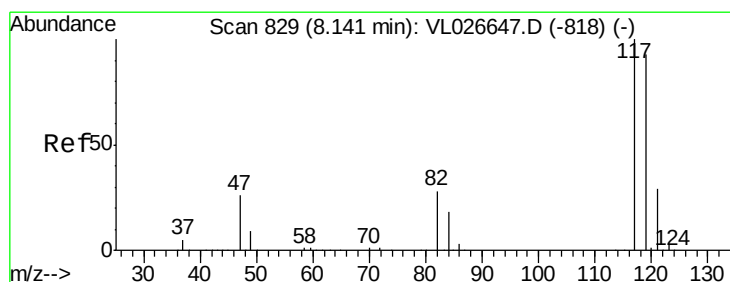
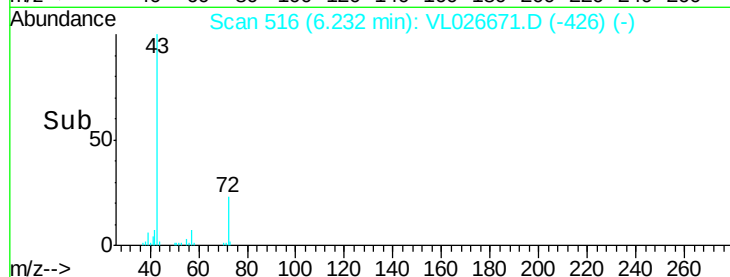
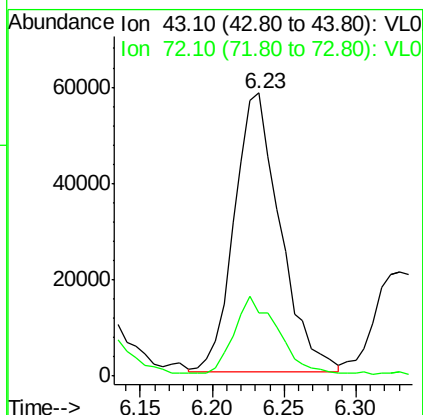
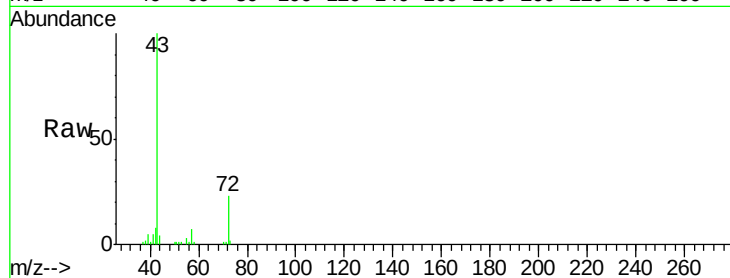




#34
2-Butanone
Concen: 1.01 ppbv
RT: 6.23 min Scan# 516
Delta R.T. 0.05 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

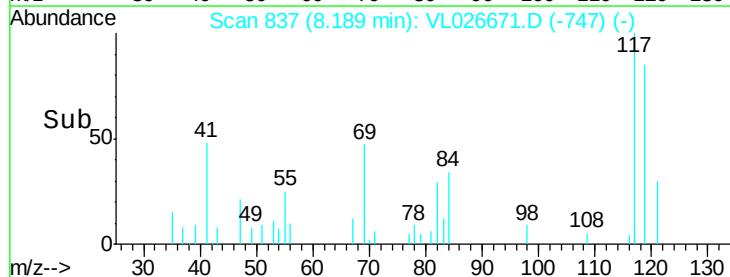
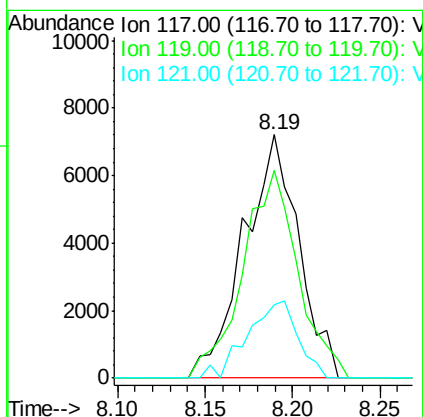
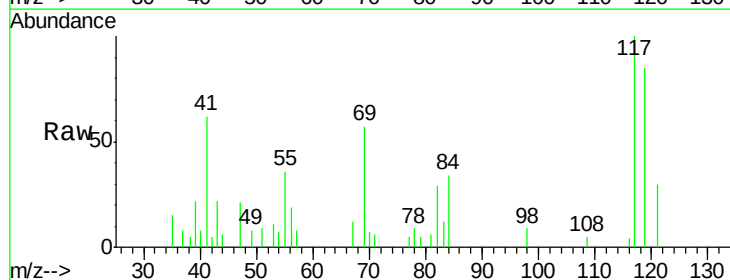
Instrument :
MSVOA_L
ClientSampleId :

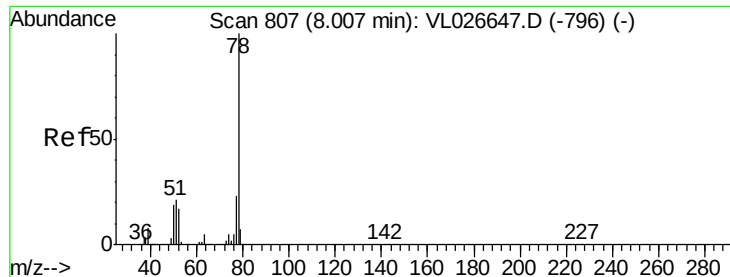
Tot Ion: 43 Resp: 128299
Ion Ratio Lower Upper
43 100
72 29.3 20.9 31.3



#35
Carbon Tetrachloride
Concen: 0.07 ppbv
RT: 8.19 min Scan# 837
Delta R.T. 0.05 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Tgt Ion: 117 Resp: 15732
Ion Ratio Lower Upper
117 100
119 85.3 74.7 112.1
121 30.2 23.1 34.7





#36

Benzene

Concen: 3.33 ppbv

RT: 8.04 min Scan# 813

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :
MSVOA_L
ClientSampleId :

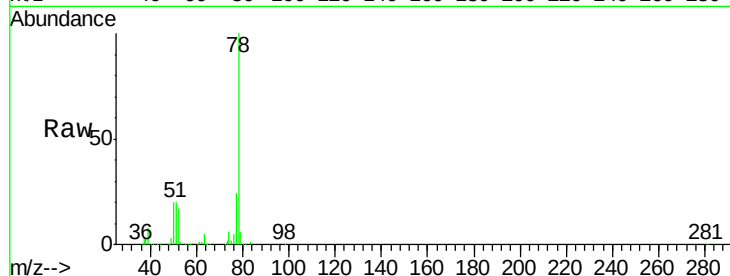
Tot Ion: 78 Resp: 816883

Ion Ratio Lower Upper

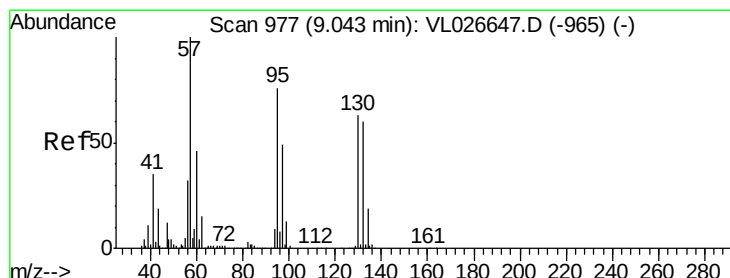
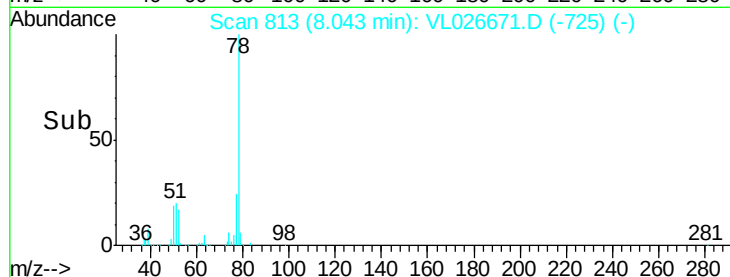
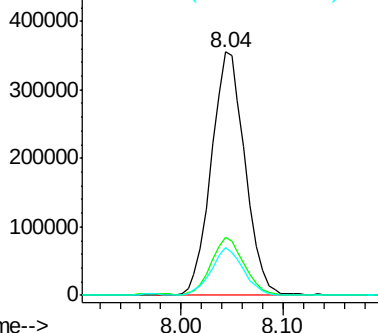
78 100

77 23.5 18.5 27.7

50 19.1 15.4 23.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 3.05 ppbv

RT: 9.09 min Scan# 985

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Tgt Ion: 130 Resp: 334422

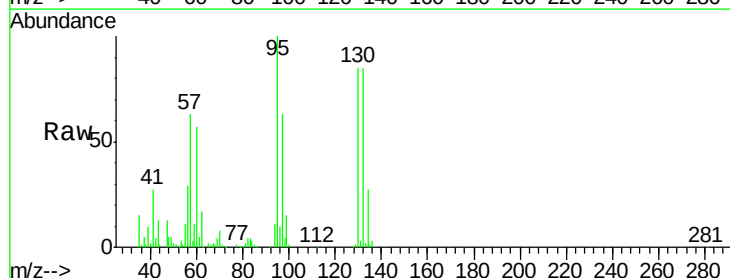
Ion Ratio Lower Upper

130 100

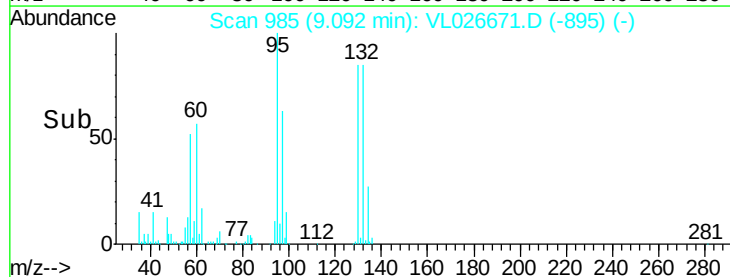
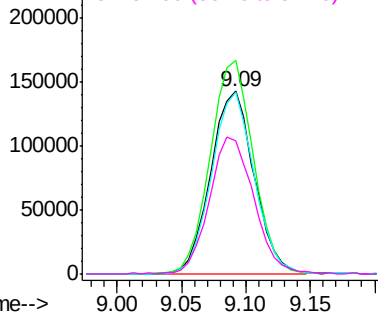
95 116.5 96.6 145.0

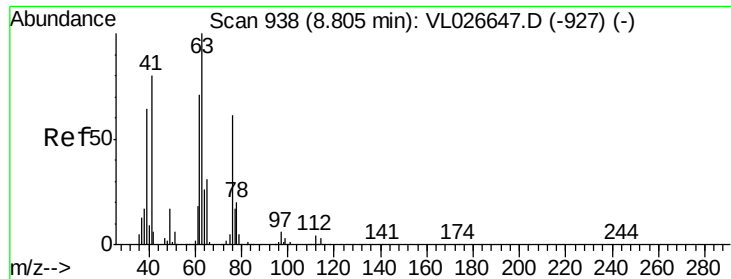
132 99.5 76.2 114.4

97 72.8 62.3 93.5



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.07 ppbv

RT: 8.68 min Scan# 918

Delta R.T. -0.12 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampleId :

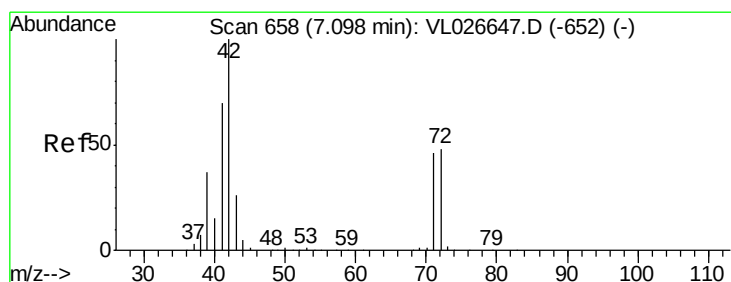
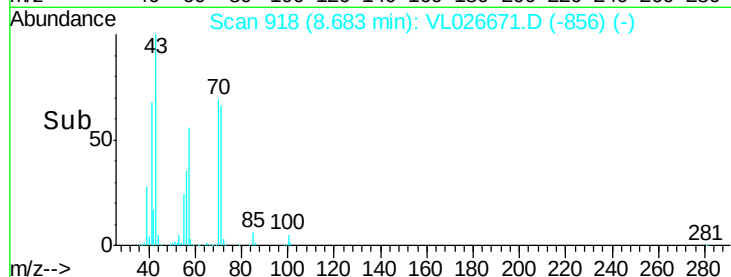
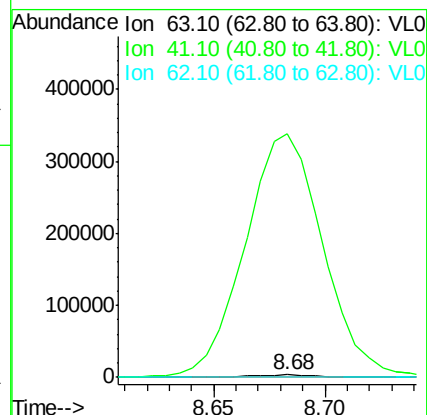
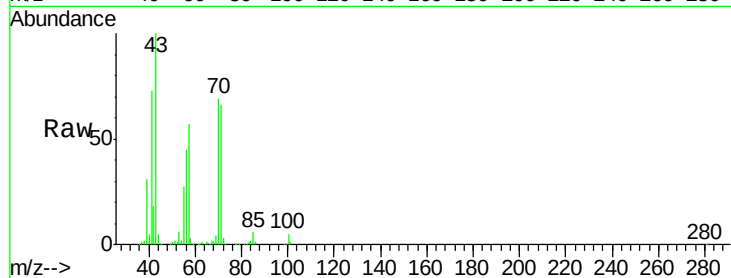
Tot Ion: 63 Resp: 5670

Ion Ratio Lower Upper

63 100

41 10644.3 64.1 96.1#

62 43.0 56.6 84.8#



#41

Tetrahydrofuran

Concen: 0.04 ppbv

RT: 7.13 min Scan# 664

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

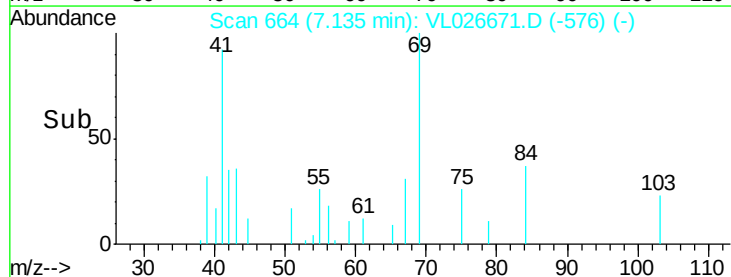
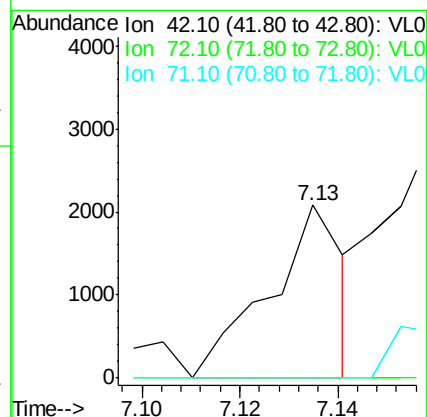
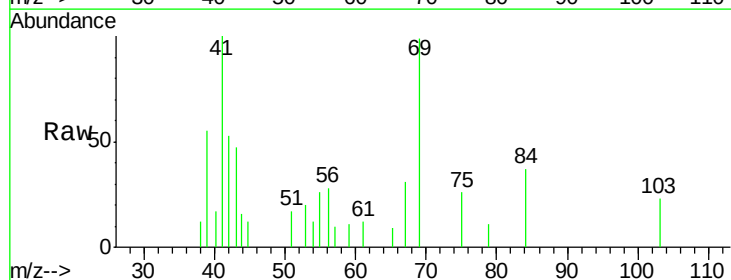
Tgt Ion: 42 Resp: 2208

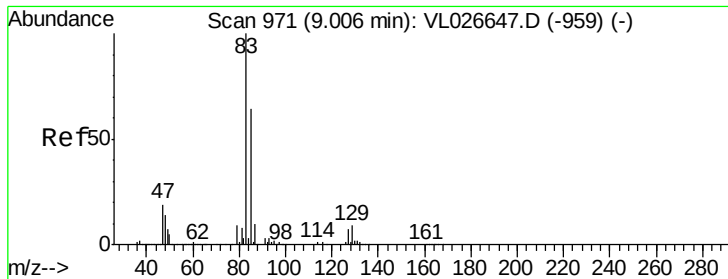
Ion Ratio Lower Upper

42 100

72 0.0 40.6 60.8#

71 0.0 38.4 57.6#





#42

Bromodichloromethane

Concen: 0.17 ppbv

RT: 9.03 min Scan# 975

Delta R.T. 0.02 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampleId :

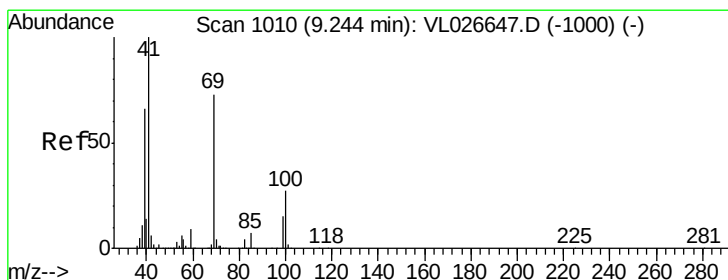
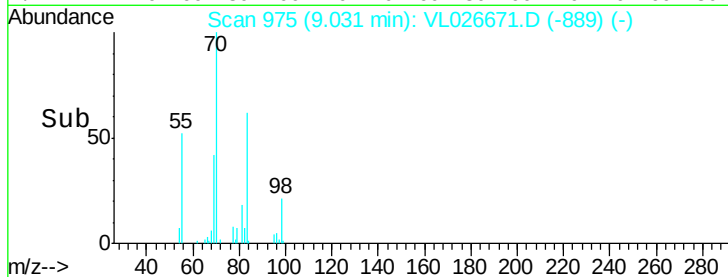
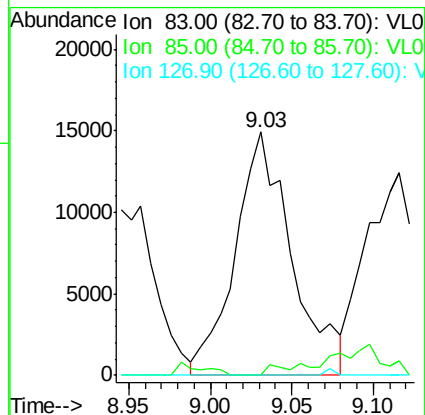
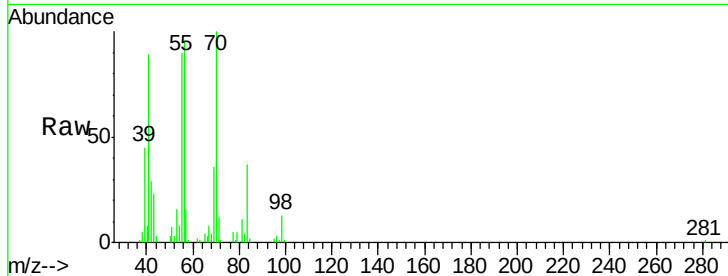
Tot Ion: 83 Resp: 35963

Ion Ratio Lower Upper

83 100

85 0.0 50.9 76.3#

127 0.0 5.5 8.3#



#43

Methyl Methacrylate

Concen: 0.10 ppbv

RT: 9.30 min Scan# 1019

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

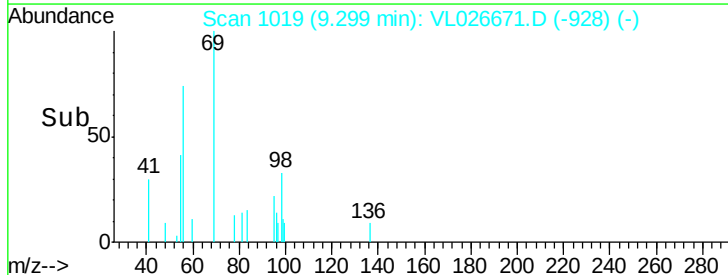
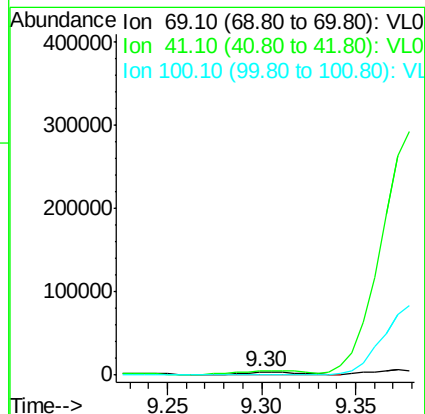
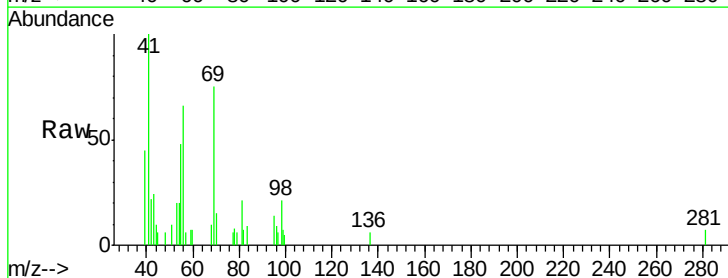
Tgt Ion: 69 Resp: 9329

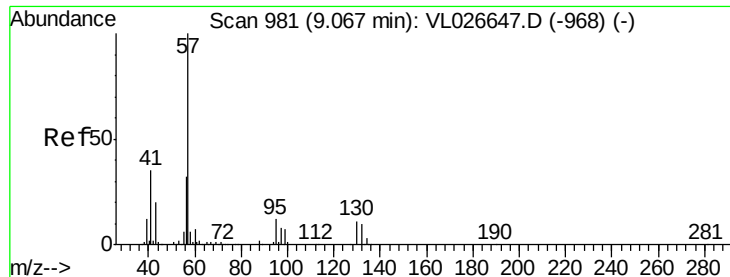
Ion Ratio Lower Upper

69 100

41 0.0 106.1 159.1#

100 0.0 29.0 43.4#





#44

2,2,4-Trimethylpentane

Concen: 1.35 ppbv

RT: 9.11 min Scan# 988

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :
MSVOA_L
ClientSampled :

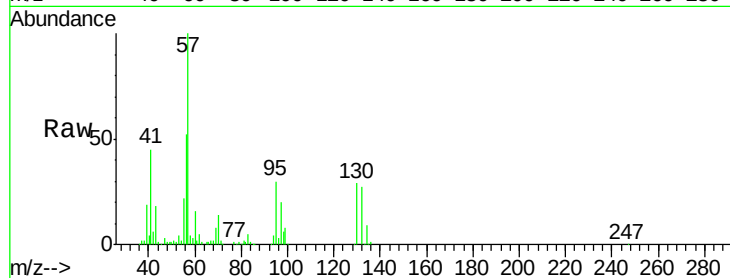
Tot Ion: 57 Resp: 535441

Ion Ratio Lower Upper

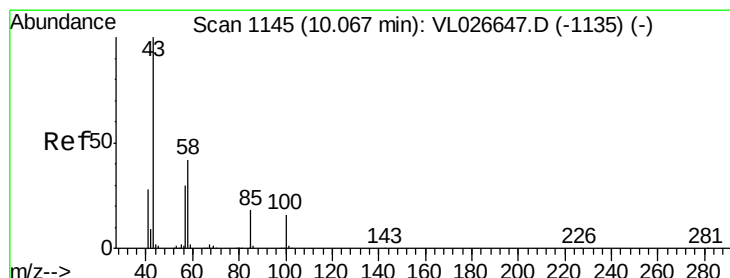
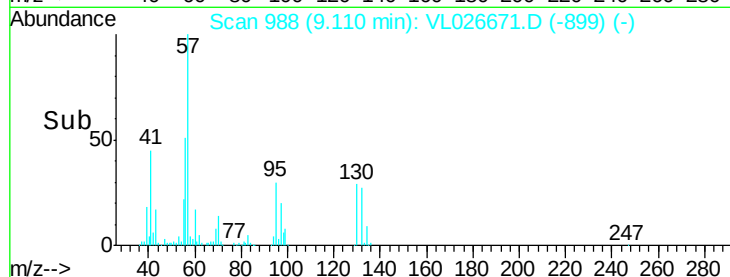
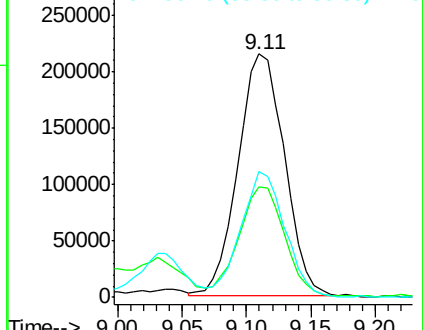
57 100

41 44.9 26.9 40.3#

56 51.1 25.4 38.0#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.85 ppbv

RT: 10.13 min Scan# 1155

Delta R.T. 0.06 min

Lab File: VL026671.D

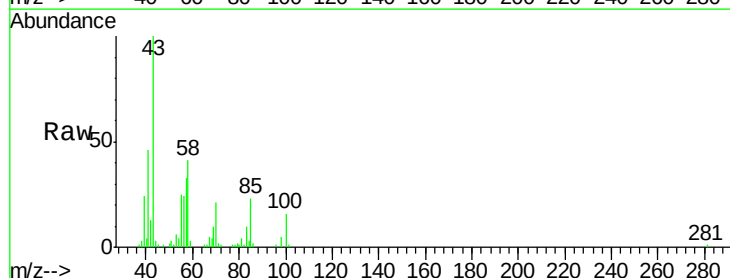
Acq: 12 Jan 2016 12:43

Tgt Ion: 43 Resp: 152517

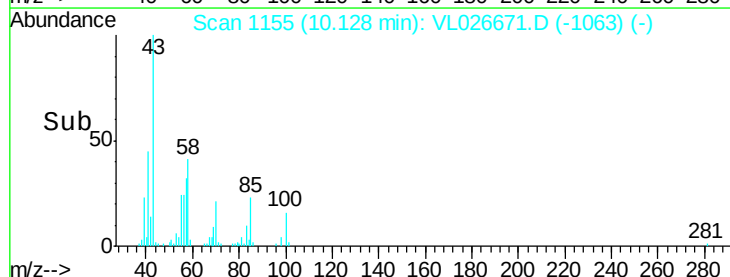
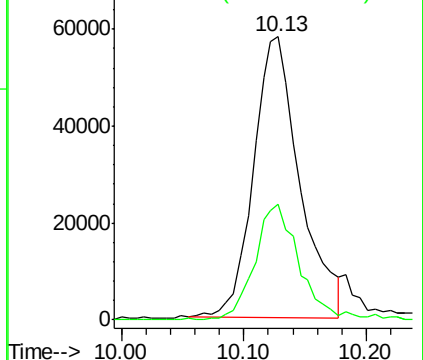
Ion Ratio Lower Upper

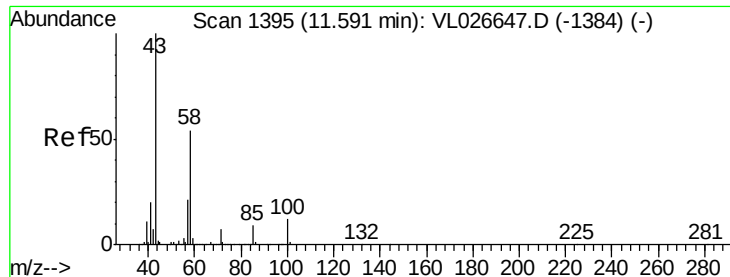
43 100

58 40.5 32.4 48.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.08 ppbv

RT: 11.67 min Scan# 1408

Delta R.T. 0.08 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampleId :

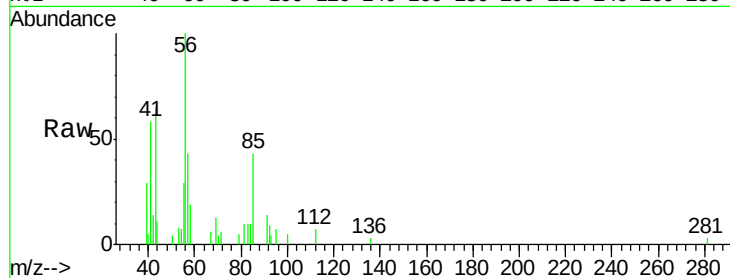
Tot Ion: 43 Resp: 13583

Ion Ratio Lower Upper

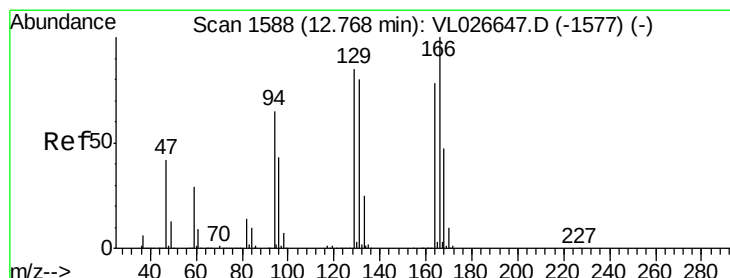
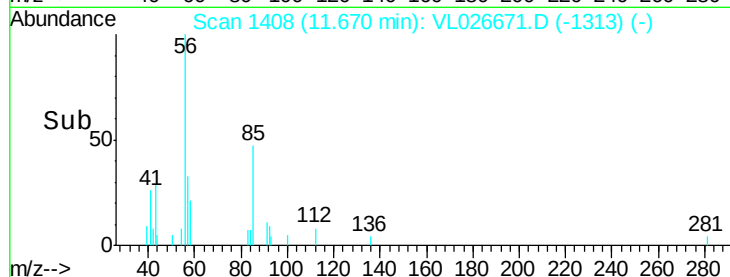
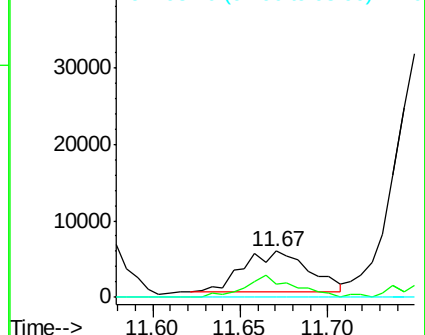
43 100

58 41.7 44.9 67.3#

98 0.0 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.32 ppbv

RT: 12.82 min Scan# 1597

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Tgt Ion:164 Resp: 39809

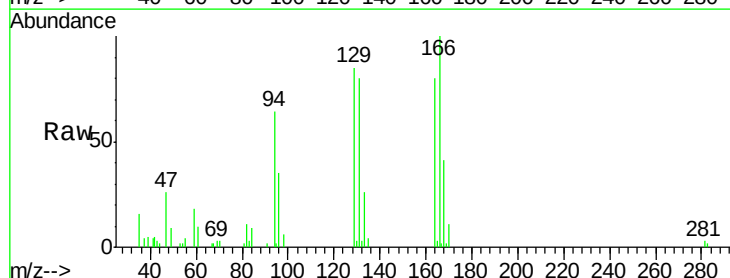
Ion Ratio Lower Upper

164 100

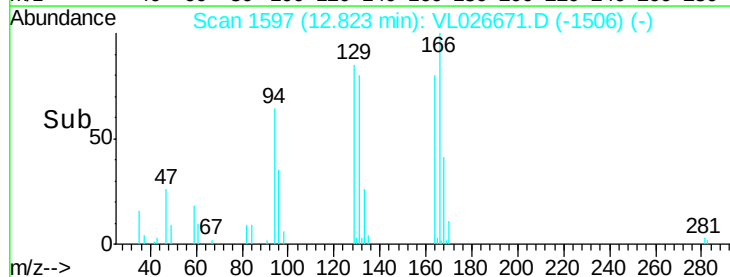
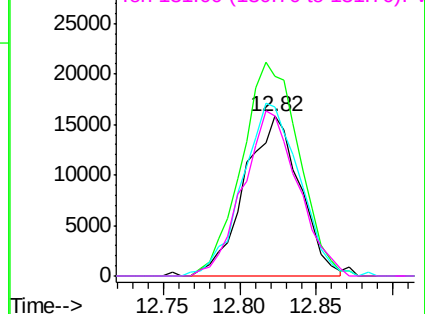
166 125.5 102.5 153.7

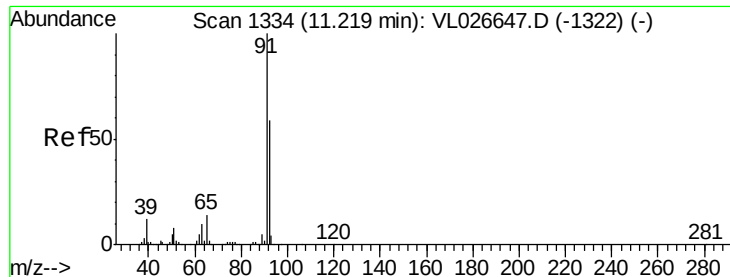
129 103.7 87.0 130.6

131 100.6 82.5 123.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

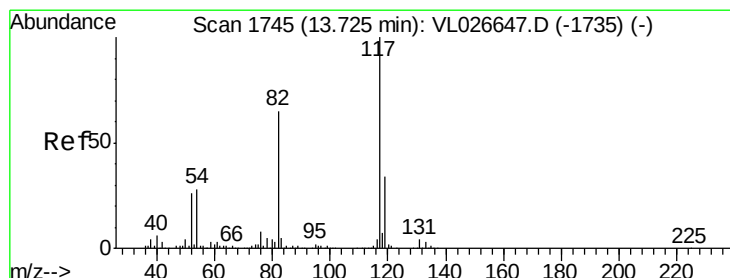
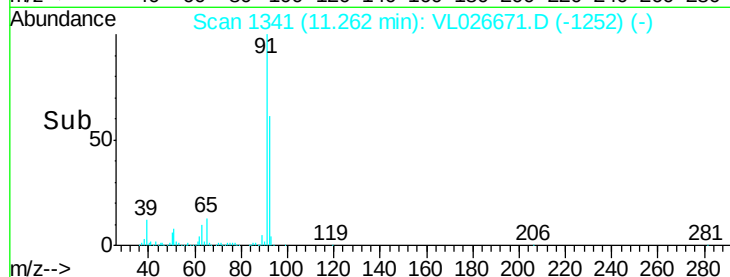
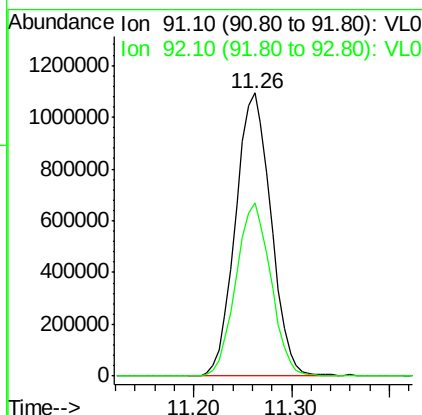
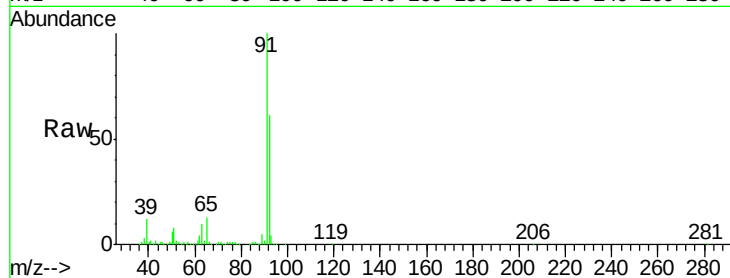




#53
Toluene
Concen: 7.95 ppbv
RT: 11.26 min Scan# 1341
Delta R.T. 0.04 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

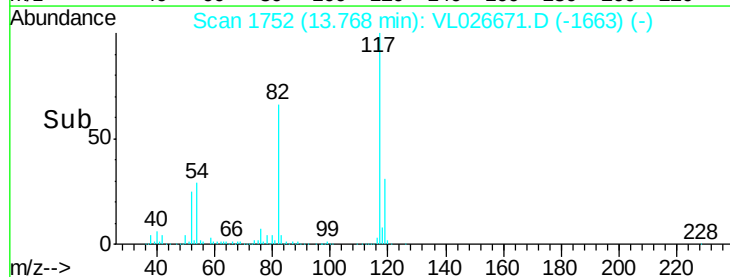
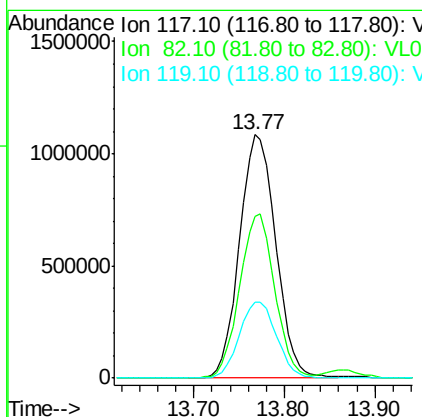
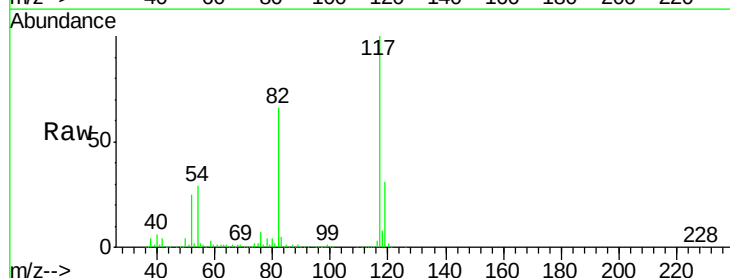
Instrument :
MSVOA_L
ClientSampleId :

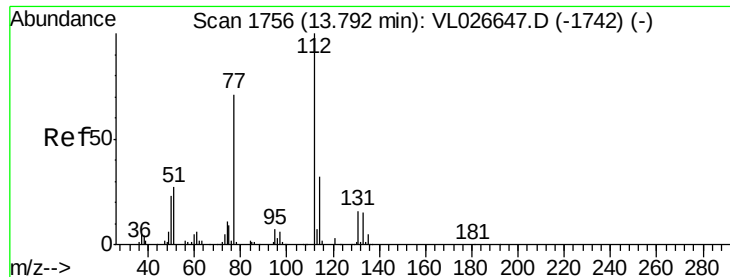
Tot Ion: 91 Resp: 2752746
Ion Ratio Lower Upper
91 100
92 60.7 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.77 min Scan# 1752
Delta R.T. 0.04 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Tgt Ion: 117 Resp: 3019268
Ion Ratio Lower Upper
117 100
82 65.4 49.7 74.5
119 32.2 43.8 65.8#





#57

Chlorobenzene

Concen: 0.13 ppbv

RT: 13.86 min Scan# 1767

Delta R.T. 0.07 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampleId :

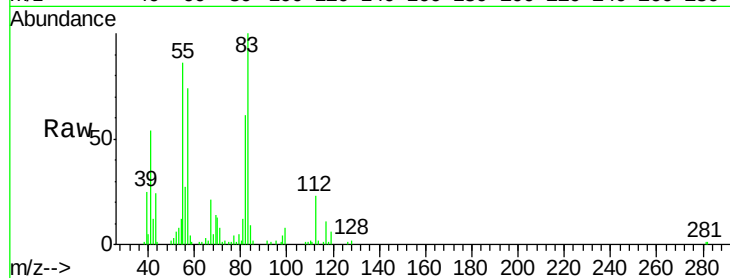
Tot Ion:112 Resp: 39286

Ion Ratio Lower Upper

112 100

77 9.7 56.9 85.3#

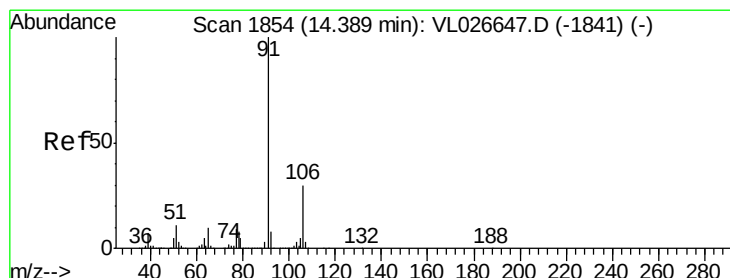
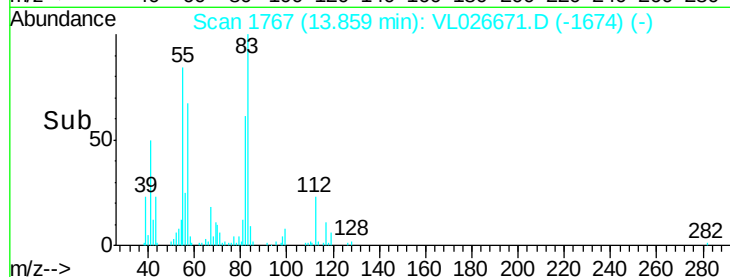
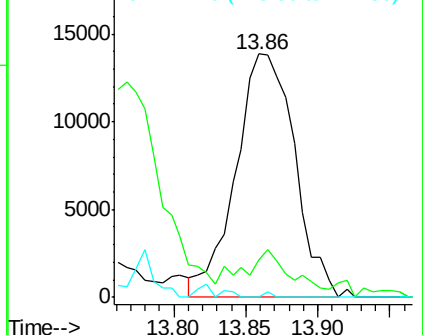
114 0.0 28.8 35.2#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.91 ppbv

RT: 14.44 min Scan# 1862

Delta R.T. 0.05 min

Lab File: VL026671.D

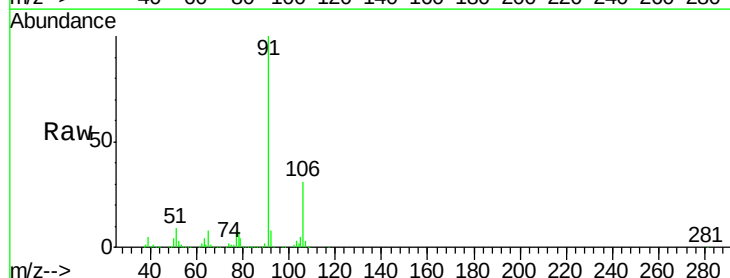
Acq: 12 Jan 2016 12:43

Tgt Ion: 91 Resp: 1029343

Ion Ratio Lower Upper

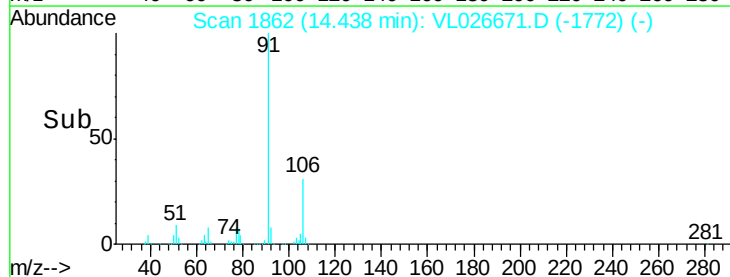
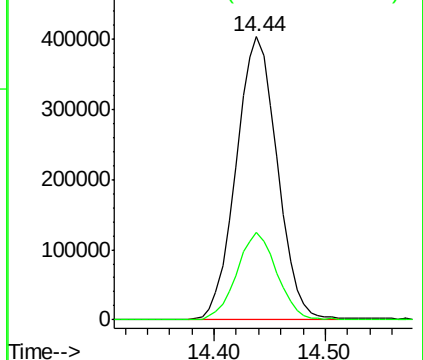
91 100

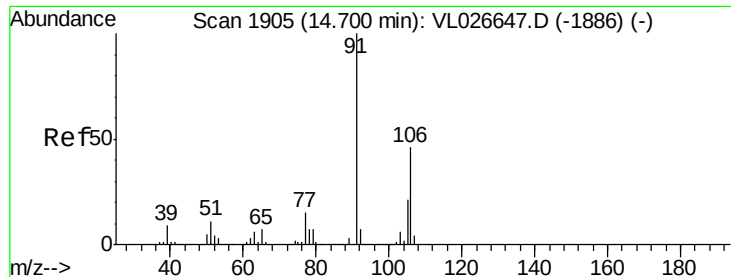
106 31.2 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

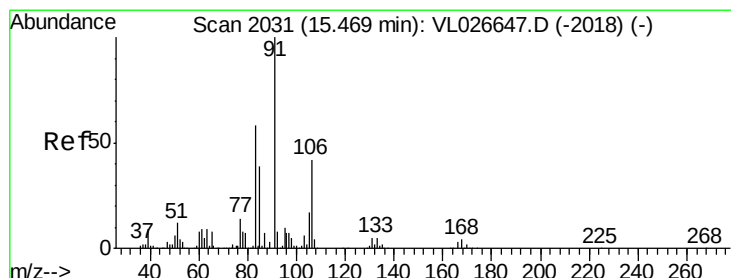
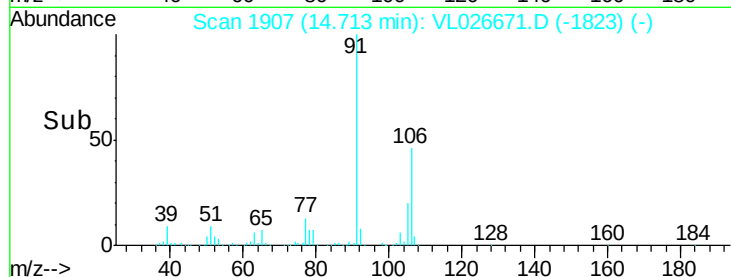
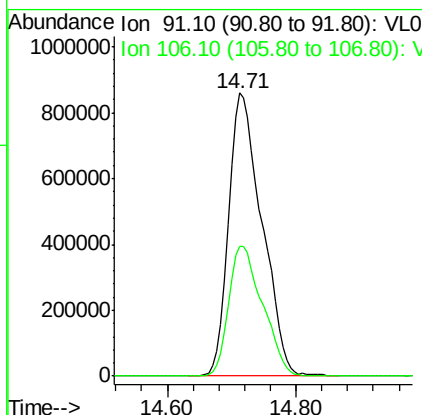
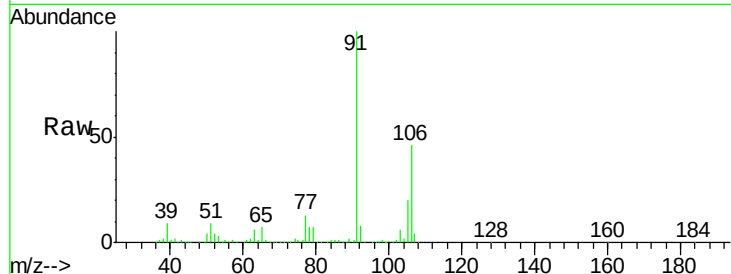




#59
m/p-Xylene
Concen: 6.95 ppbv
RT: 14.71 min Scan# 1907
Delta R.T. 0.01 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

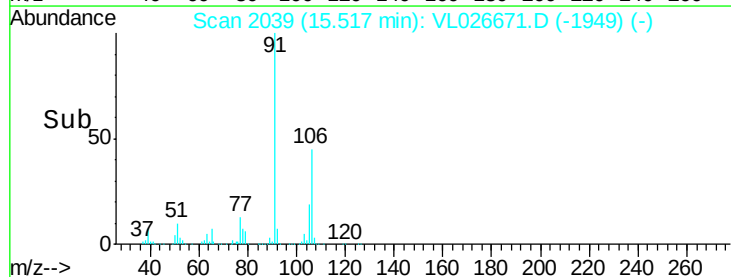
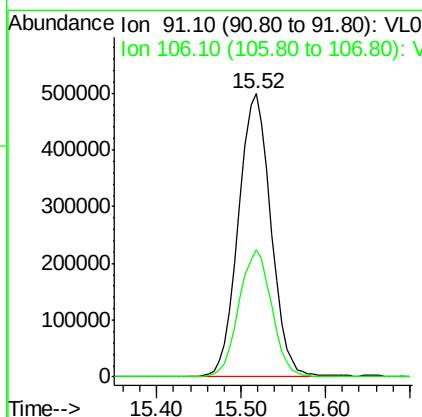
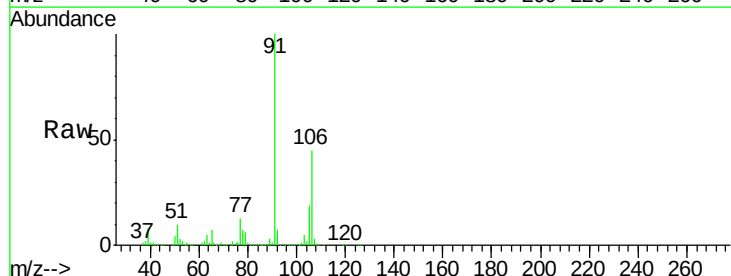
Instrument :
MSVOA_L
ClientSampled :

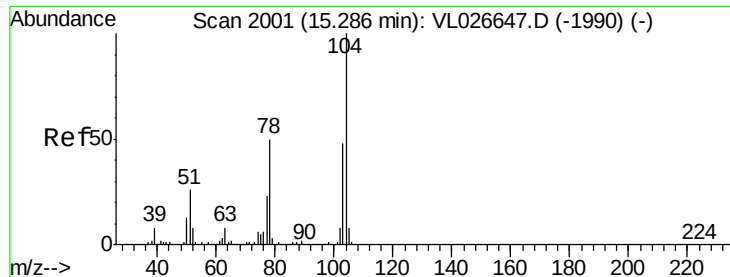
Tot Ion: 91 Resp: 3088895
Ion Ratio Lower Upper
91 100
106 47.2 36.6 55.0



#60
o-Xylene
Concen: 2.70 ppbv
RT: 15.52 min Scan# 2039
Delta R.T. 0.05 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Tgt Ion: 91 Resp: 1297504
Ion Ratio Lower Upper
91 100
106 45.8 21.5 64.5





#61

Stvrene

Concen: 0.57 ppbv

RT: 15.33 min Scan# 2009

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampleId :

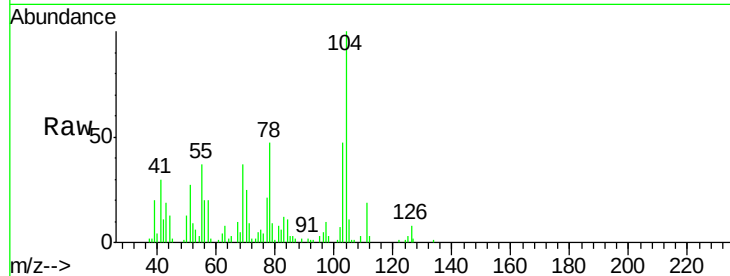
Tot Ion:104 Resp: 107847

Ion Ratio Lower Upper

104 100

78 47.4 39.6 59.4

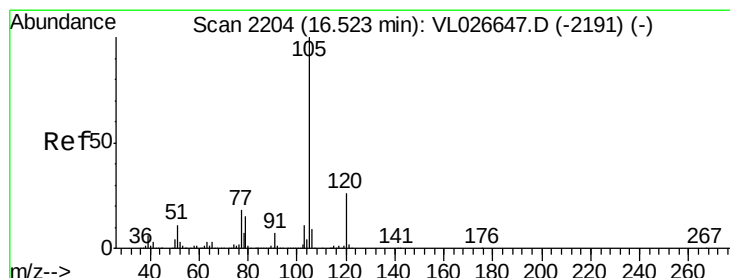
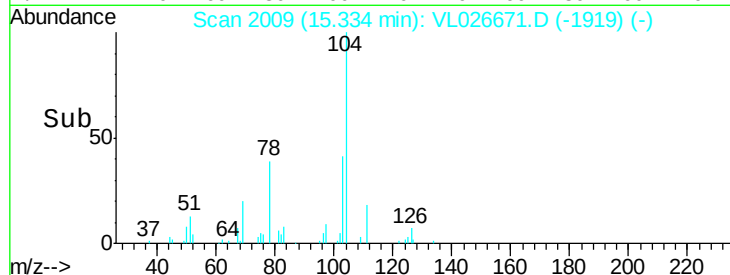
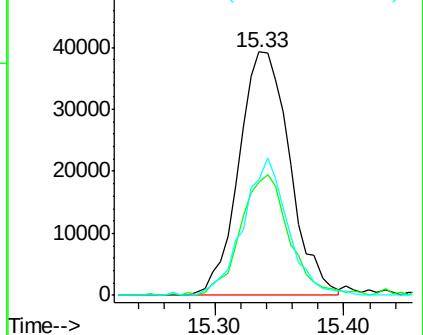
103 49.4 37.8 56.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.23 ppbv

RT: 16.57 min Scan# 2212

Delta R.T. 0.05 min

Lab File: VL026671.D

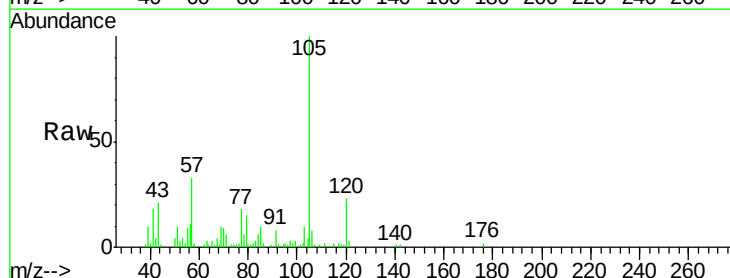
Acq: 12 Jan 2016 12:43

Tgt Ion:105 Resp: 145441

Ion Ratio Lower Upper

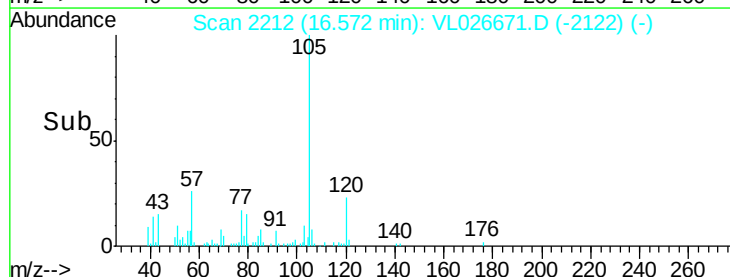
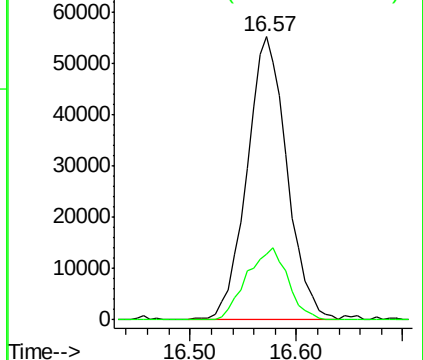
105 100

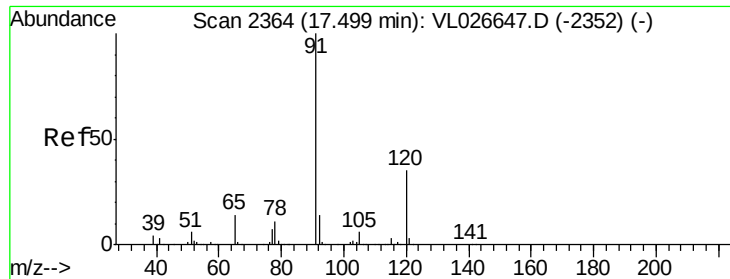
120 26.2 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.77 ppbv

RT: 17.55 min Scan# 2372

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

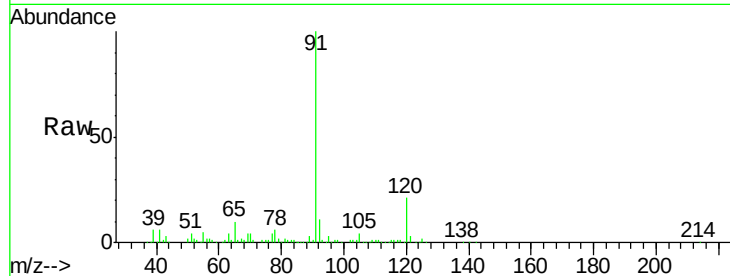
ClientSampleId :

Tot Ion:120 Resp: 131450

Ion Ratio Lower Upper

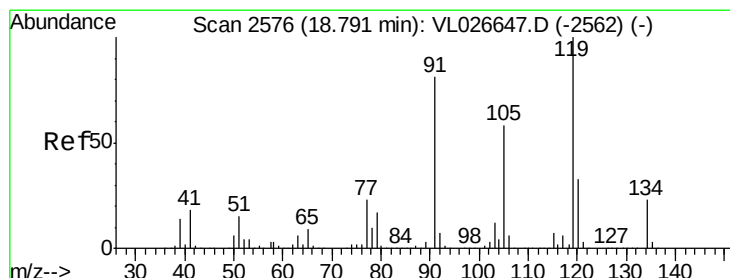
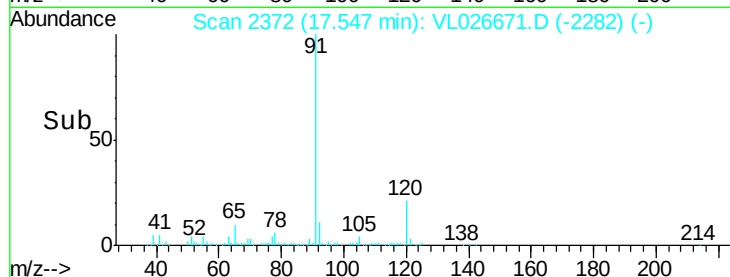
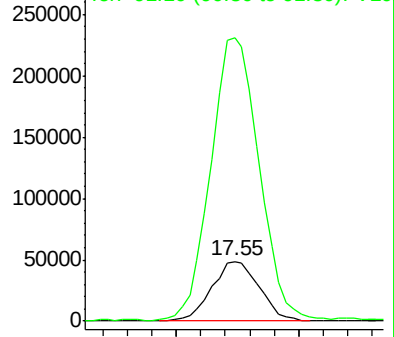
120 100

91 489.0 375.8 563.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.52 ppbv

RT: 18.86 min Scan# 2587

Delta R.T. 0.07 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

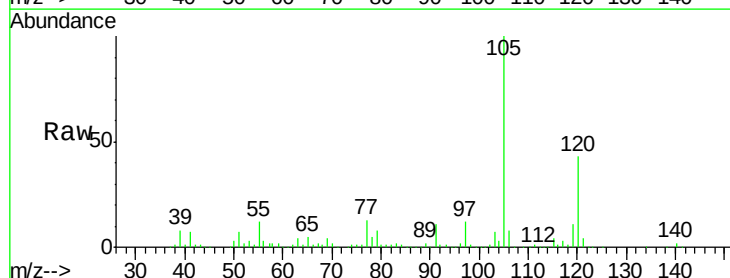
Tgt Ion:119 Resp: 304941

Ion Ratio Lower Upper

119 100

91 95.9 64.8 97.2

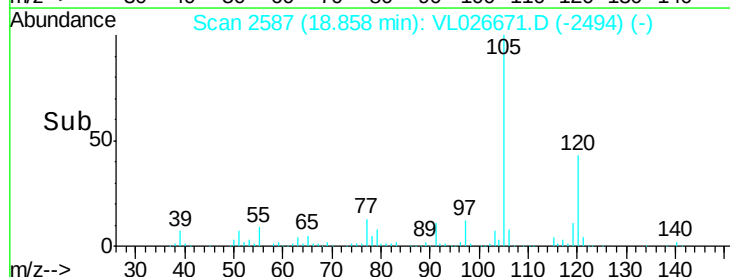
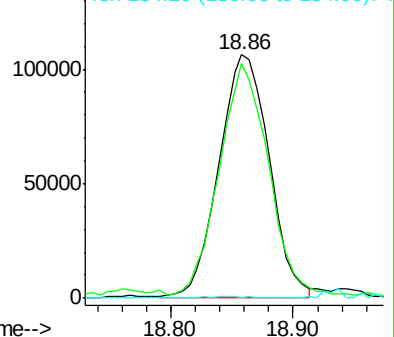
134 0.6 17.4 26.0#

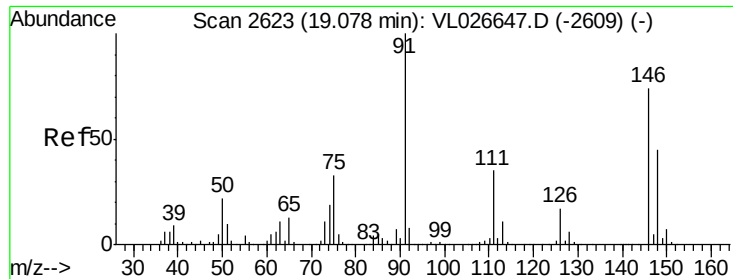


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

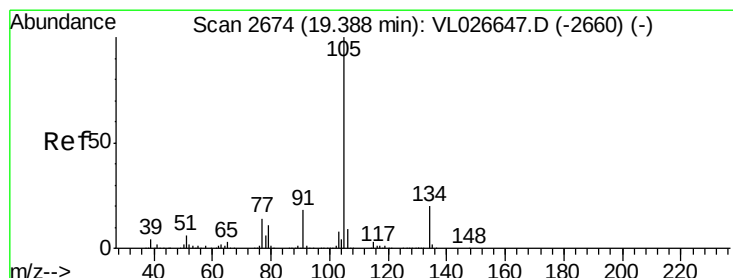
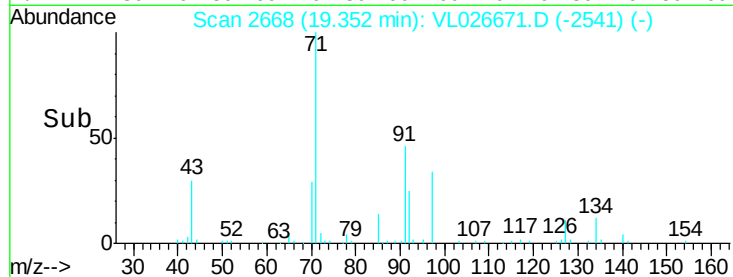
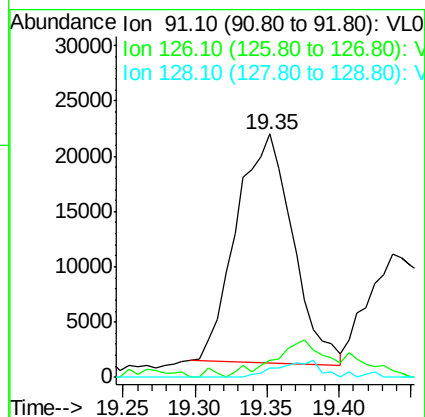
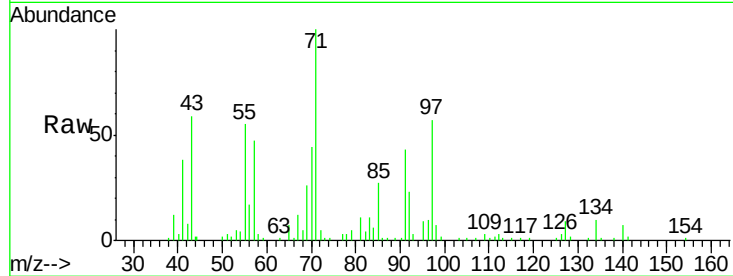




#66
Benzyl Chloride
Concen: 0.27 ppbv
RT: 19.35 min Scan# 2668
Delta R.T. 0.27 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

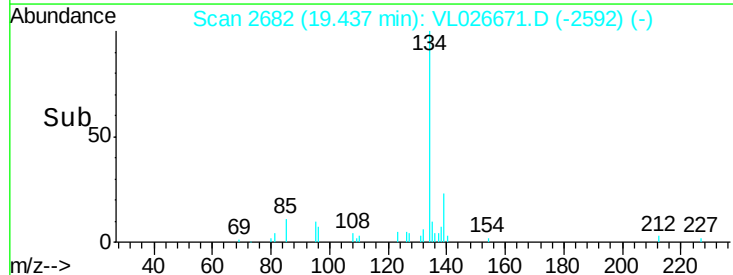
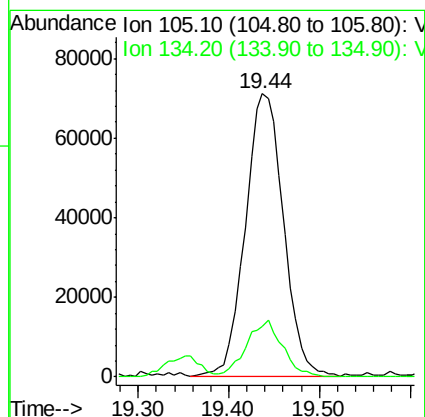
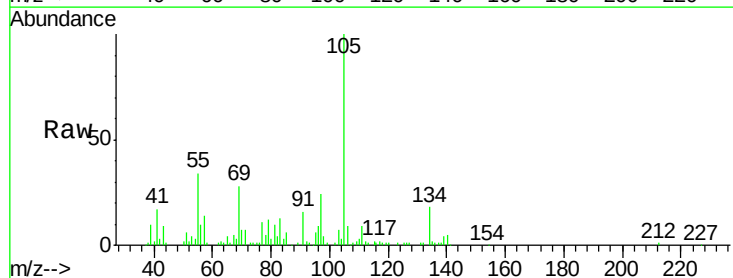
Instrument :
MSVOA_L
ClientSampled :

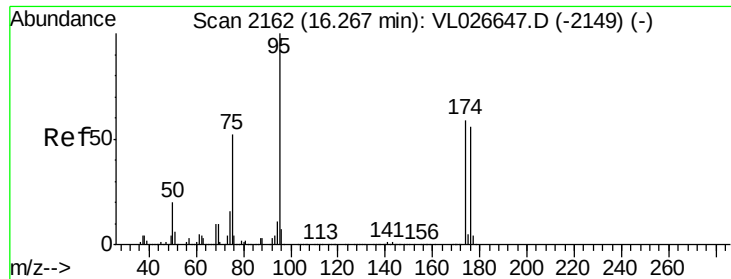
Tot Ion: 91 Resp: 56060
Ion Ratio Lower Upper
91 100
126 24.3 14.2 21.2#
128 6.4 4.5 6.7



#67
sec-Butylbenzene
Concen: 0.24 ppbv
RT: 19.44 min Scan# 2682
Delta R.T. 0.05 min
Lab File: VL026671.D
Acq: 12 Jan 2016 12:43

Tgt Ion: 105 Resp: 208075
Ion Ratio Lower Upper
105 100
134 18.7 14.9 22.3

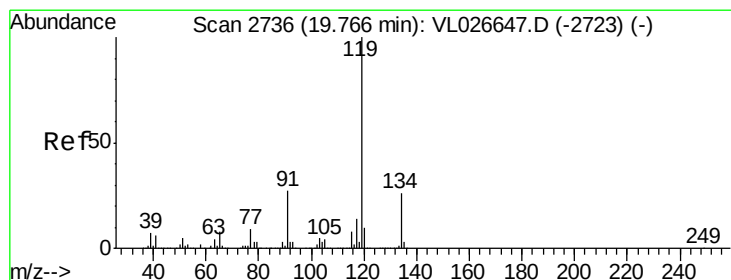
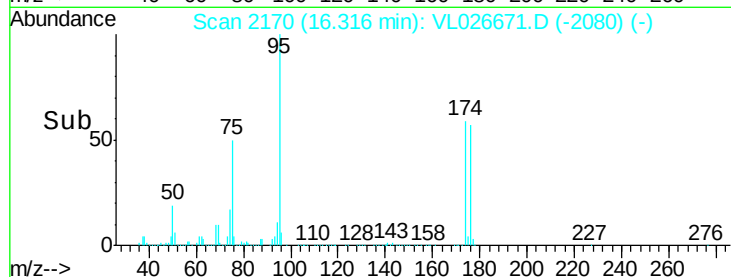
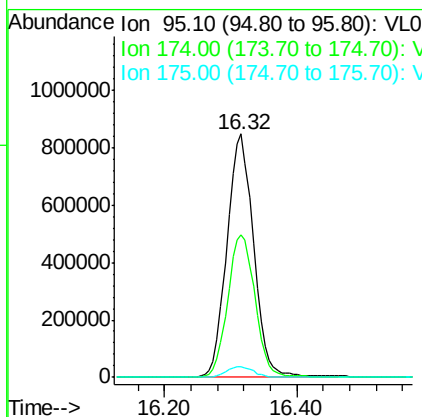
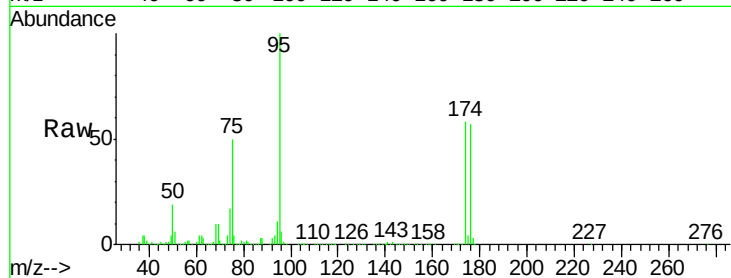




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.89 ppbv
 RT: 16.32 min Scan# 2170
 Delta R.T. 0.05 min
 Lab File: VL026671.D
 Acq: 12 Jan 2016 12:43

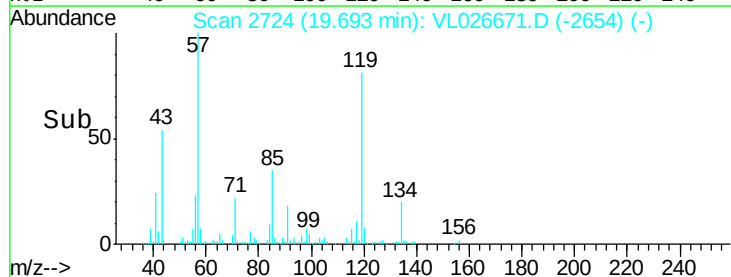
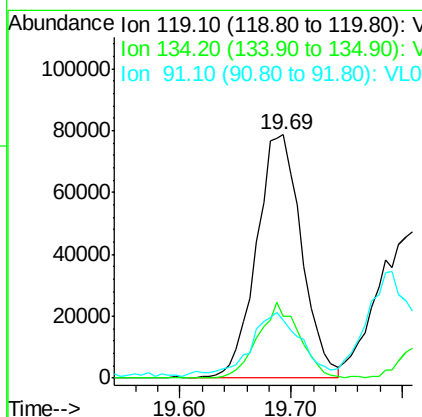
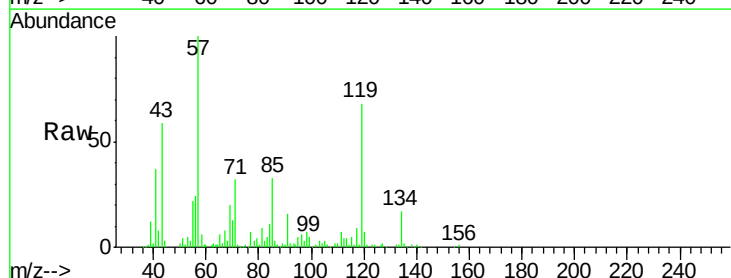
Instrument :
 MSVOA_L
 ClientSampled :

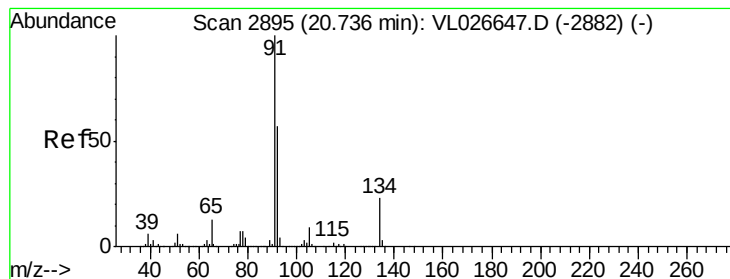
Tot Ion: 95 Resp: 2379802
 Ion Ratio Lower Upper
 95 100
 174 60.2 47.8 71.8
 175 4.4 3.6 5.4



#69
 p-Isopropyltoluene
 Concen: 0.34 ppbv
 RT: 19.69 min Scan# 2724
 Delta R.T. -0.07 min
 Lab File: VL026671.D
 Acq: 12 Jan 2016 12:43

Tgt Ion: 119 Resp: 222040
 Ion Ratio Lower Upper
 119 100
 134 28.6 20.6 31.0
 91 30.0 21.7 32.5





#70

n-Butylbenzene

Concen: 0.69 ppbv

RT: 20.79 min Scan# 2904

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampleId :

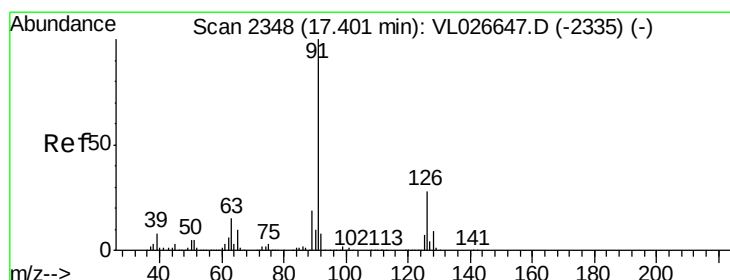
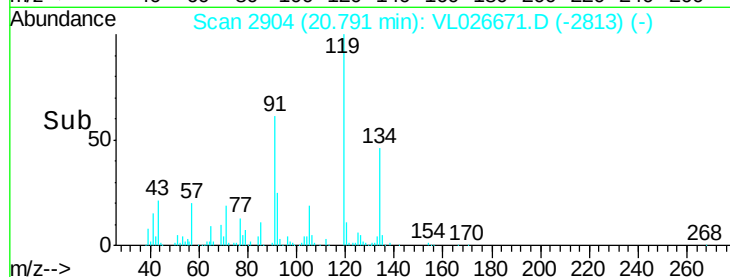
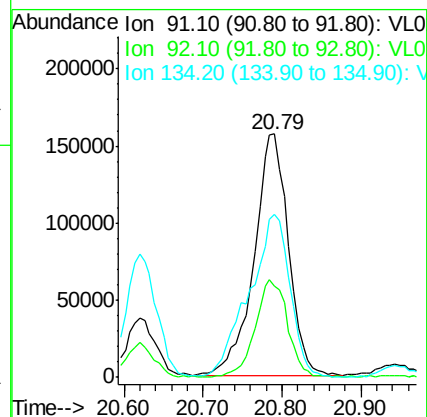
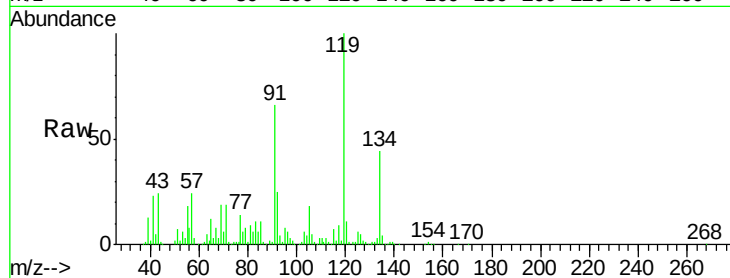
Tot Ion: 91 Resp: 476409

Ion Ratio Lower Upper

91 100

92 37.9 45.0 67.4#

134 80.1 18.2 27.2#



#71

2-Chlorotoluene

Concen: 1.27 ppbv

RT: 17.55 min Scan# 2372

Delta R.T. 0.15 min

Lab File: VL026671.D

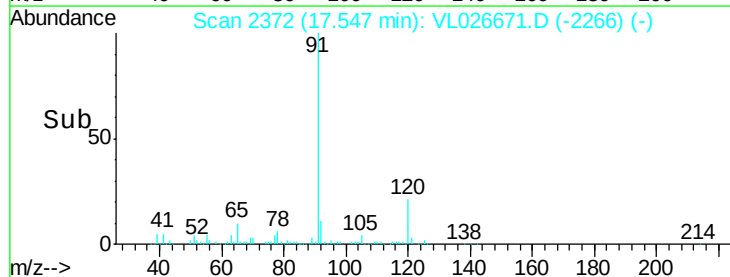
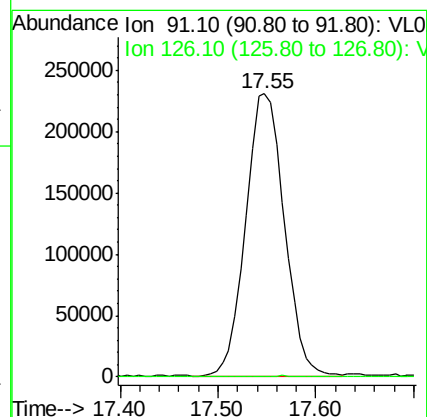
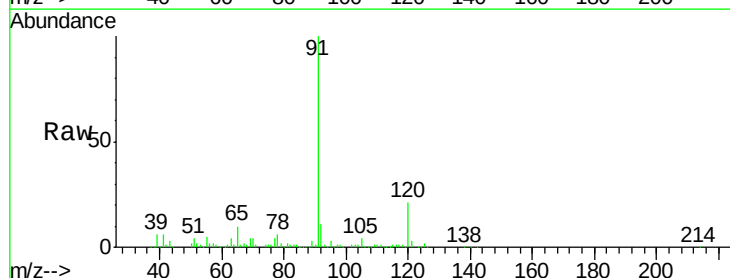
Acq: 12 Jan 2016 12:43

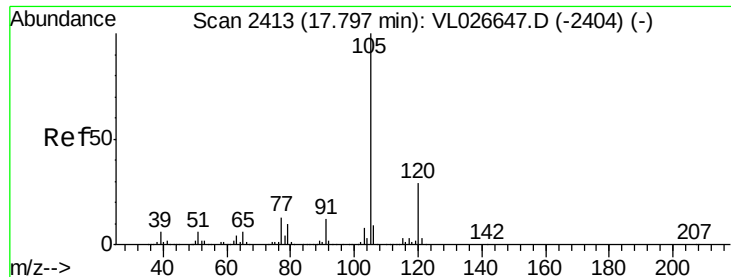
Tgt Ion: 91 Resp: 631334

Ion Ratio Lower Upper

91 100

126 0.4 11.4 45.8#





#72

4-Ethyltoluene

Concen: 1.37 ppbv

RT: 17.85 min Scan# 2421

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:105 Resp: 734927

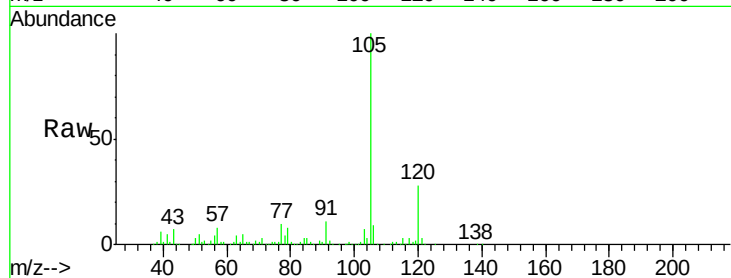
Ion Ratio Lower Upper

105 100

120 29.7 23.7 35.5

91 11.1 9.7 14.5

77 12.0 10.3 15.5

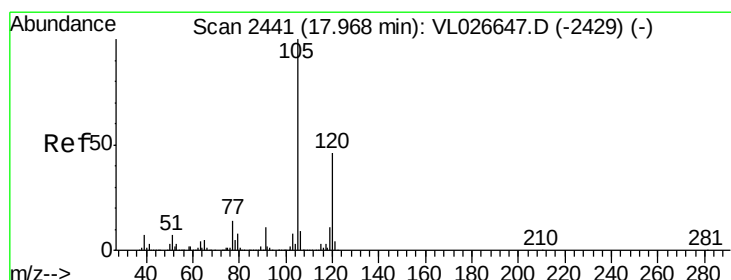
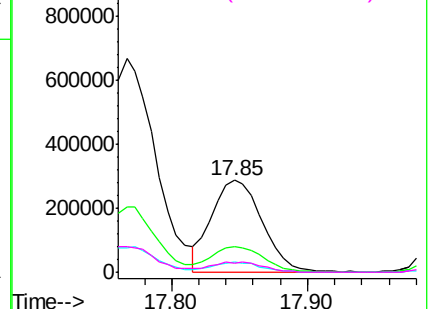
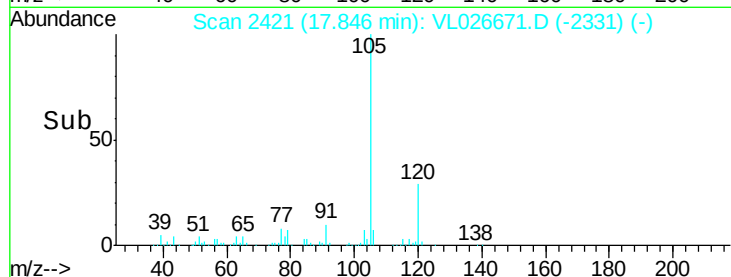


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 1.37 ppbv

RT: 18.02 min Scan# 2449

Delta R.T. 0.05 min

Lab File: VL026671.D

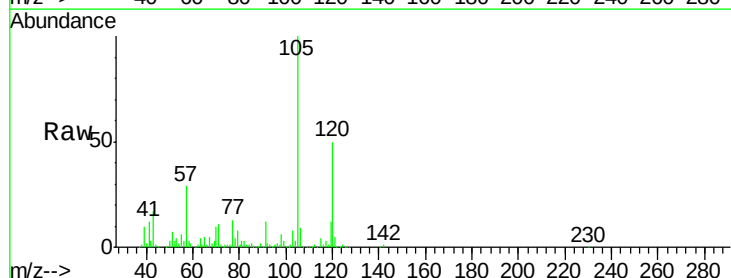
Acq: 12 Jan 2016 12:43

Tgt Ion:105 Resp: 696846

Ion Ratio Lower Upper

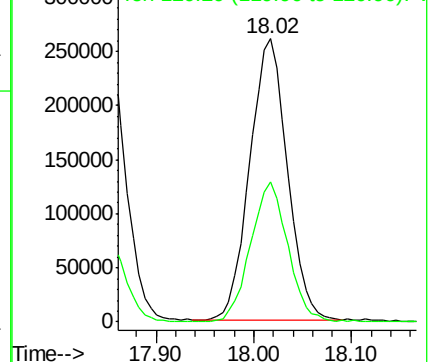
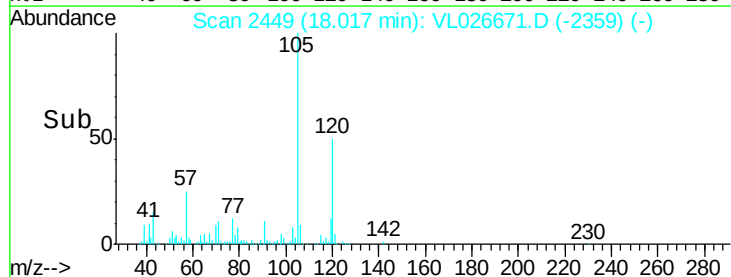
105 100

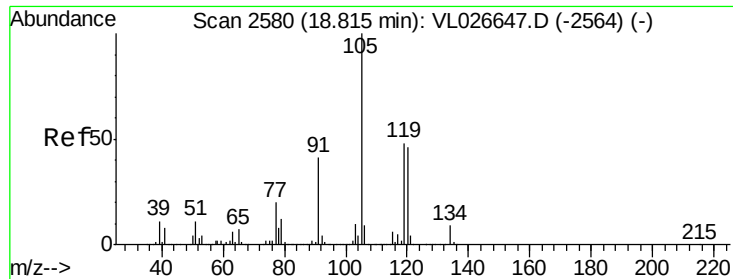
120 49.6 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 4.94 ppbv

RT: 18.86 min Scan# 2587

Delta R.T. 0.04 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:105 Resp: 2669501

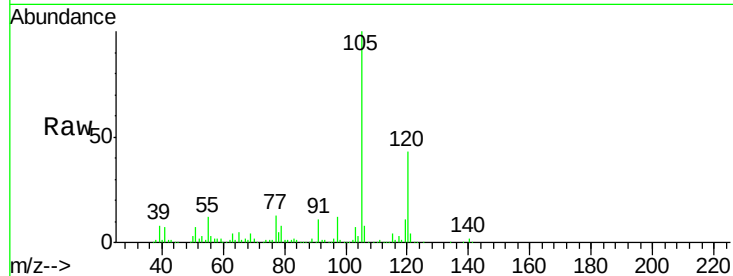
Ion Ratio Lower Upper

105 100

120 42.7 36.6 55.0

91 10.6 32.5 48.7#

77 12.9 15.7 23.5#



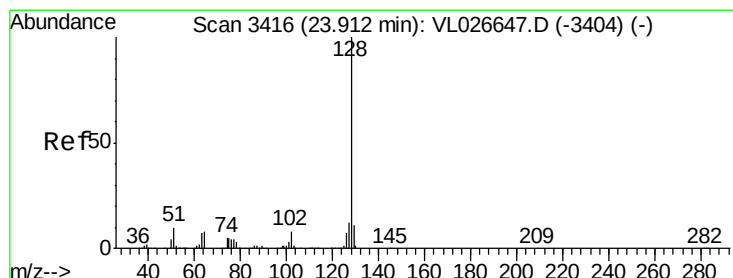
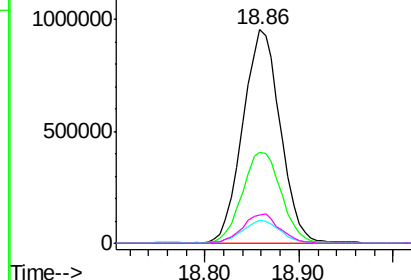
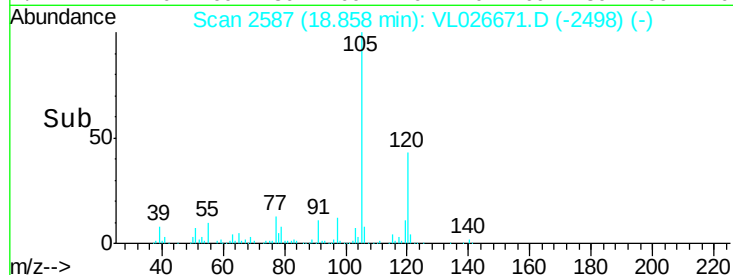
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.82 ppbv

RT: 23.96 min Scan# 3424

Delta R.T. 0.05 min

Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

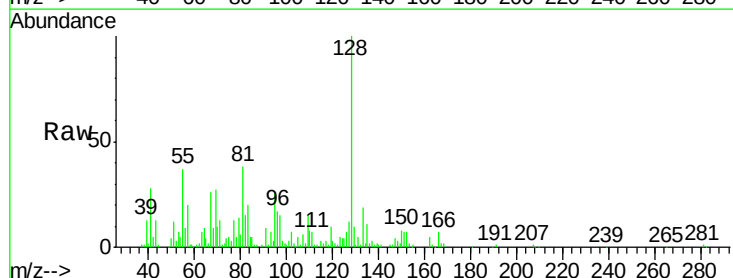
Tgt Ion:128 Resp: 299747

Ion Ratio Lower Upper

128 100

127 10.5 9.8 14.8

129 9.2 8.9 13.3

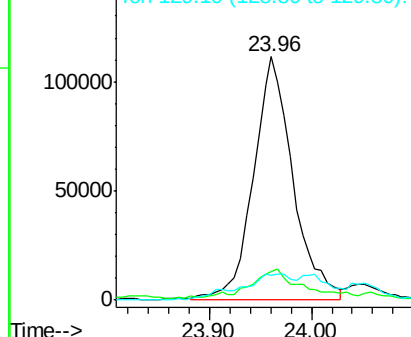
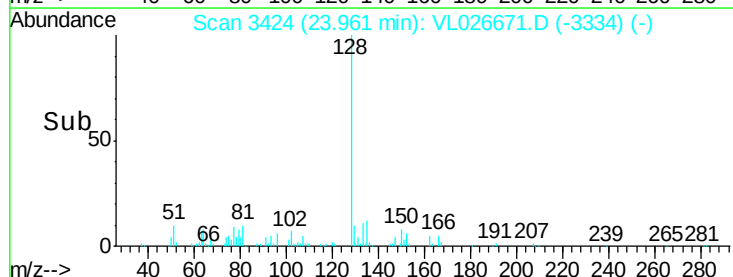


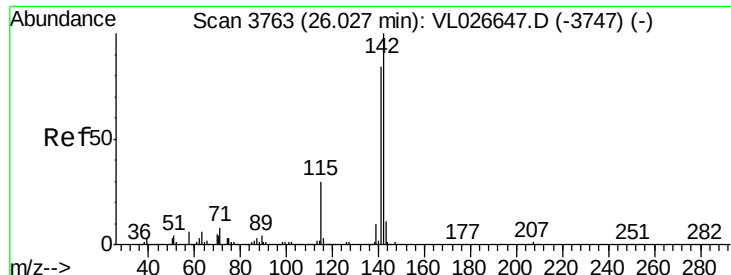
Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene,2-methyl-

Concen: 0.28 ppbv

RT: 26.08 min Scan# 3771

Delta R.T. 0.05 min

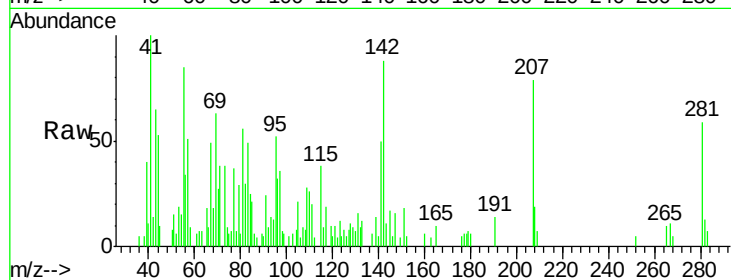
Lab File: VL026671.D

Acq: 12 Jan 2016 12:43

Instrument :

MSVOA_L

ClientSampleId :



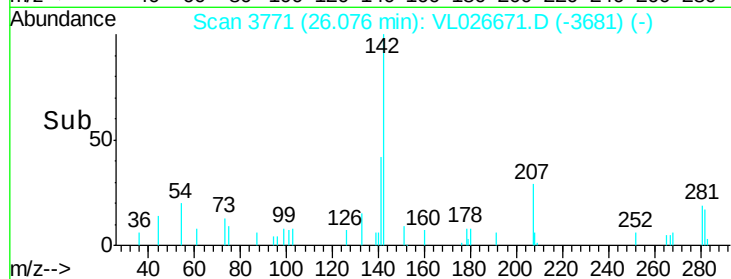
Tot Ion:142 Resp: 15575

Ion Ratio Lower Upper

142 100

141 81.4 67.0 100.6

115 95.2 24.7 37.1#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

