

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026849.D
 Acq On : 10 Feb 2016 10:54
 Operator : SY/AP
 Sample : H1385-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 01:17:56 2016

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 03:14:04 2016

QLast Update : Wed Feb 10 03:14:04 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	1417680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	4232294	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	3094010	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2536495	11.42	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.67	85	121093	0.40	ppbv	96
3) Chlorodifluoromethane	3.59	51	657340	2.86	ppbv	98
4) Chloromethane	3.78	50	49449	0.54	ppbv	100
9) Propene	3.85	41	468836	7.54	ppbv	99
10) Heptane	9.39	43	14126	0.07	ppbv	97
11) Trichlorofluoromethane	4.73	101	98144	0.27	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	5.34	101	20203	0.08	ppbv	96
13) Ethanol	4.35	45	120112	11.24	ppbv	98
15) Acetone	4.62	43	3711974	19.06	ppbv	98
16) 1,3-Butadiene	3.97	39	2358880	31.02	ppbv #	8
17) tert-Butyl alcohol	5.15	59	5053420	39.30	ppbv	99
19) Isopropyl Alcohol	4.79	45	142152	2.05	ppbv #	92
20) Methylene Chloride	5.18	84	907679	8.99	ppbv	93
21) Allyl Chloride	5.15	41	1227907	10.21	ppbv #	55
23) Vinyl Acetate	6.04	43	6405196	24.25	ppbv #	44
24) 1,1-Dichloroethane	5.95	63	7003	0.03	ppbv #	85
25) Ethyl Acetate	6.70	43	481526	1.65	ppbv #	82
26) Hexane	6.70	57	703148	4.27	ppbv #	51
27) Carbon Disulfide	5.42	76	605912	2.14	ppbv	98
28) Methyl tert-Butyl Ether	5.98	73	8781263	34.12	ppbv	96
29) Chloroform	6.78	83	42983	0.17	ppbv	98
30) Cyclohexane	8.34	84	22766	0.17	ppbv #	1
34) 2-Butanone	6.23	43	517059	2.49	ppbv	93
35) Carbon Tetrachloride	8.20	117	22012	0.07	ppbv	90
36) Benzene	8.06	78	107950	0.32	ppbv #	95
37) 1,2-Dichloroethane	7.41	62	9024	0.04	ppbv #	57
38) Trichloroethene	9.10	130	11742	0.08	ppbv	93
41) Tetrahydrofuran	7.13	42	48242	0.47	ppbv #	34
44) 2,2,4-Trimethylpentane	9.12	57	30738	0.05	ppbv #	54
50) 4-Methyl-2-Pentanone	10.14	43	33351	0.14	ppbv	96
51) 2-Hexanone	11.57	43	1609104	7.85	ppbv #	29
52) Tetrachloroethene	12.83	164	74523	0.56	ppbv	94
53) Toluene	11.27	91	738528	1.95	ppbv	99
57) Chlorobenzene	13.87	112	8670	0.03	ppbv #	70
58) Ethyl Benzene	14.46	91	32772	0.09	ppbv	98
59) m/p-Xylene	14.77	91	25721	0.08	ppbv #	29
60) o-Xylene	15.53	91	33100	0.10	ppbv	99
61) Styrene	15.35	104	135380	1.15	ppbv	98
62) Isopropylbenzene	16.59	105	154109	0.37	ppbv	97
64) n-propylbenzene	17.56	120	54400	0.51	ppbv	80
65) tert-Butylbenzene	18.85	119	43001	0.11	ppbv #	95

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

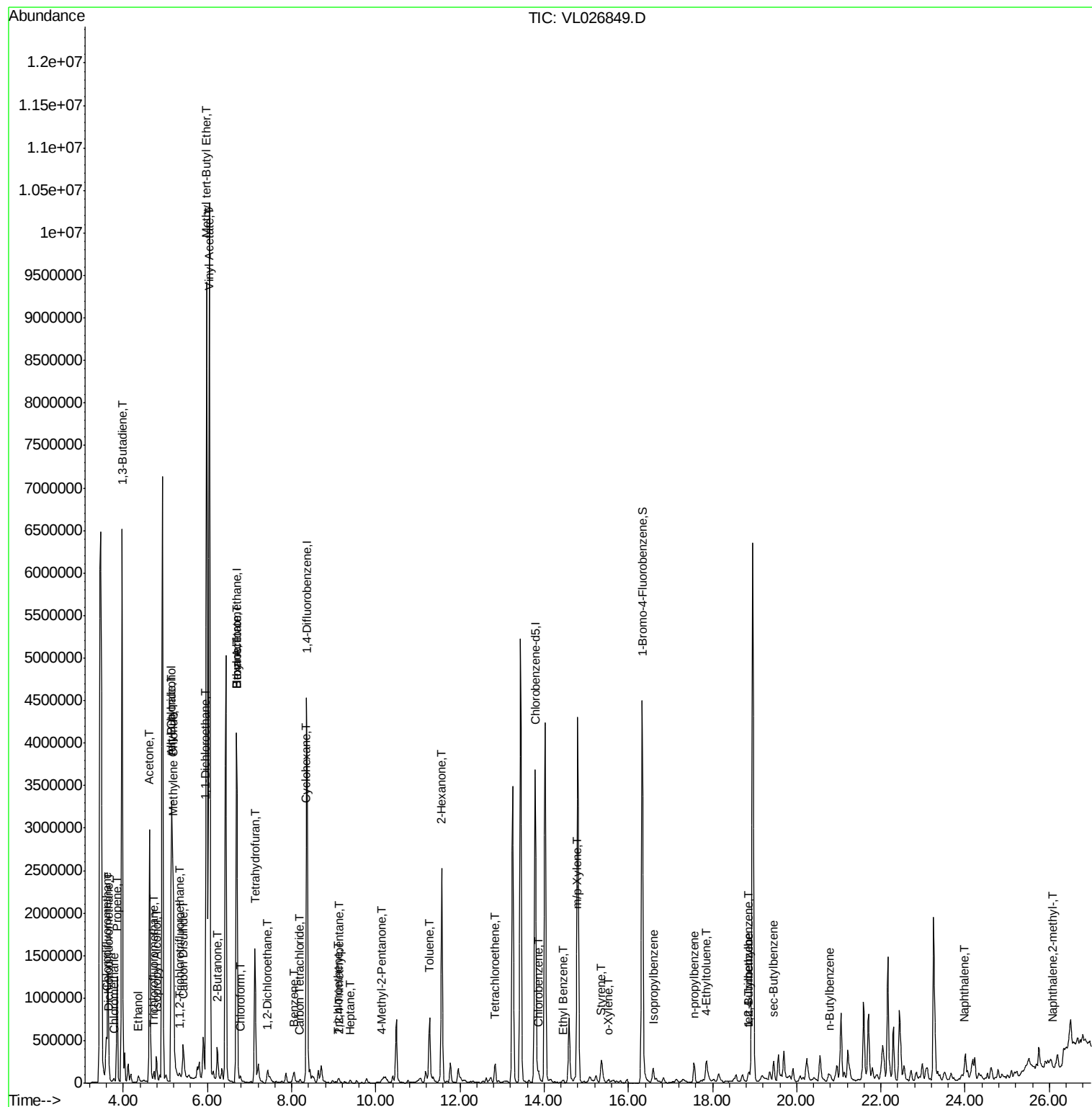
Quant Time: Feb 11 01:17:56 2016
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:14:04 2016
QLast Update : Wed Feb 10 03:14:04 2016
Response via : Initial Calibration

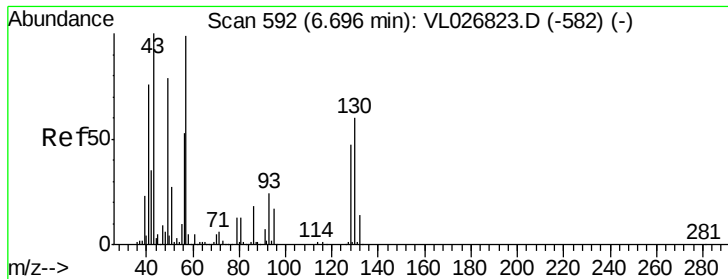
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) sec-Butylbenzene	19.45	105	255943	0.51	ppbv	99
70) n-Butylbenzene	20.79	91	65659	0.17	ppbv #	73
72) 4-Ethyltoluene	17.86	105	12760	0.04	ppbv #	55
74) 1,2,4-Trimethylbenzene	18.87	105	44684	0.13	ppbv #	84
79) Naphthalene	23.97	128	37951	0.22	ppbv #	76
80) Naphthalene,2-methyl-	26.09	142	32626	0.47	ppbv #	72

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

Instrument :
MSVOA_L
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

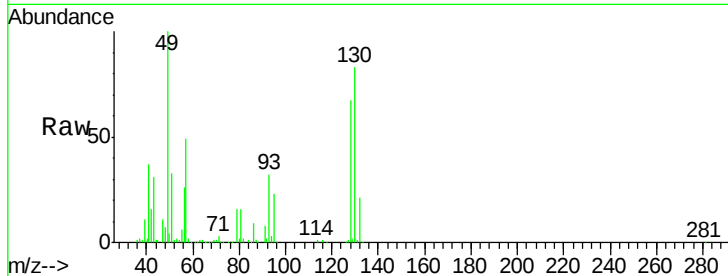
Tgt Ion: 49 Resp: 1417680

Ion Ratio Lower Upper

49 100

128 65.5 29.7 89.1

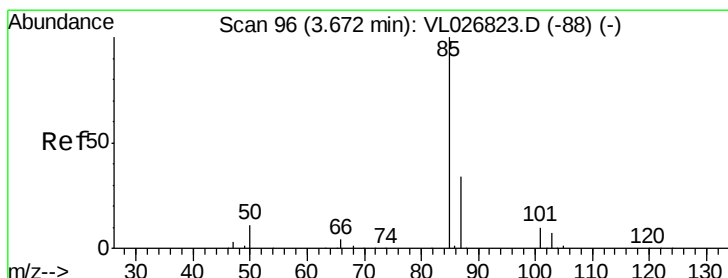
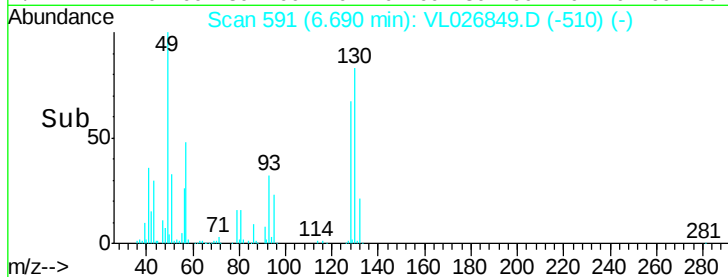
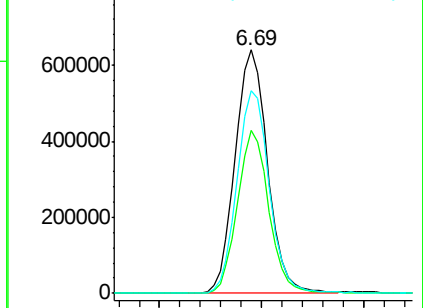
130 83.9 38.3 114.8



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: 0.40 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL026849.D

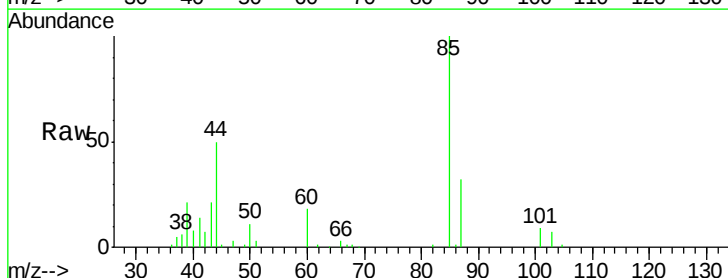
Acq: 10 Feb 2016 10:54

Tgt Ion: 85 Resp: 121093

Ion Ratio Lower Upper

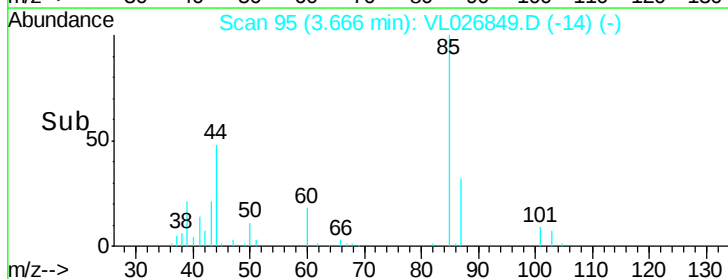
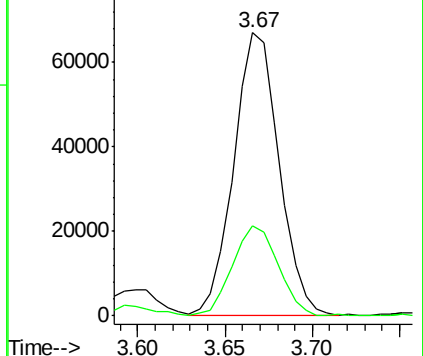
85 100

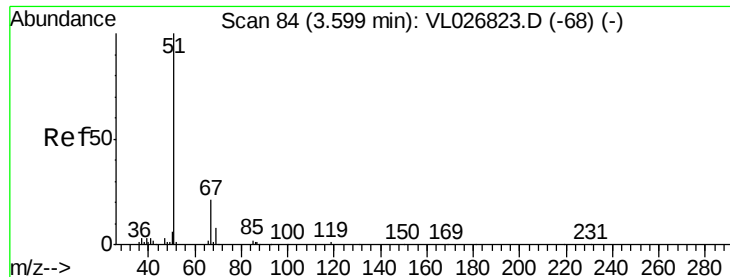
87 31.9 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.86 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

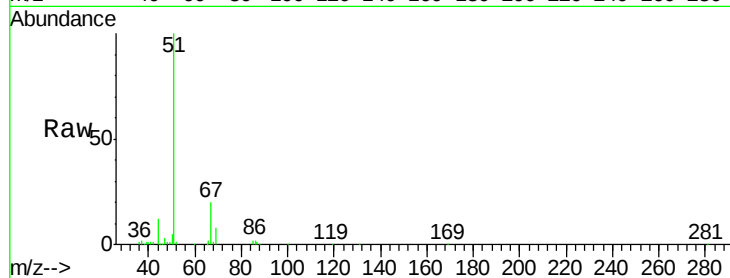
ClientSampleId :

Tgt Ion: 51 Resp: 657340

Ion Ratio Lower Upper

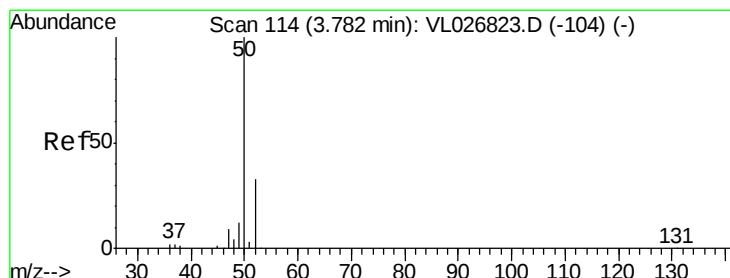
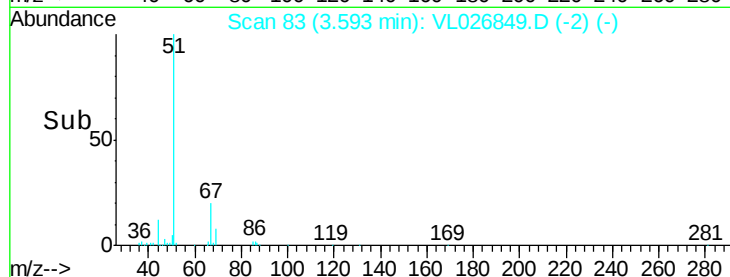
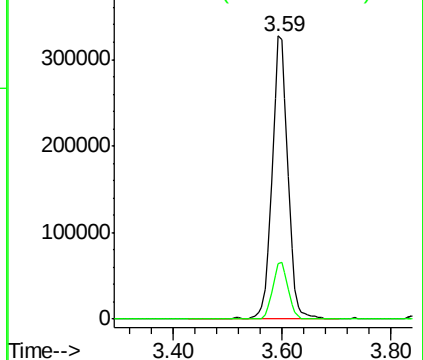
51 100

67 19.6 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.54 ppbv

RT: 3.78 min Scan# 113

Delta R.T. -0.01 min

Lab File: VL026849.D

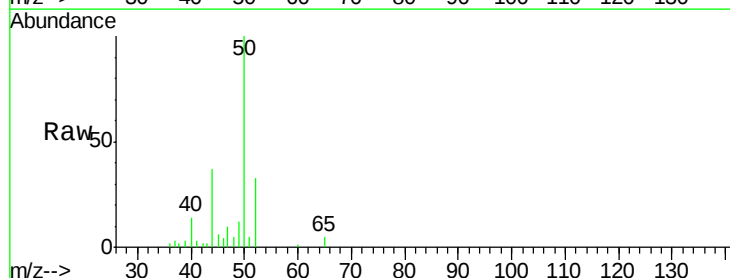
Acq: 10 Feb 2016 10:54

Tgt Ion: 50 Resp: 49449

Ion Ratio Lower Upper

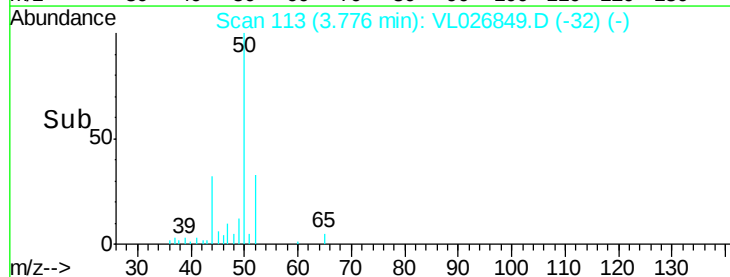
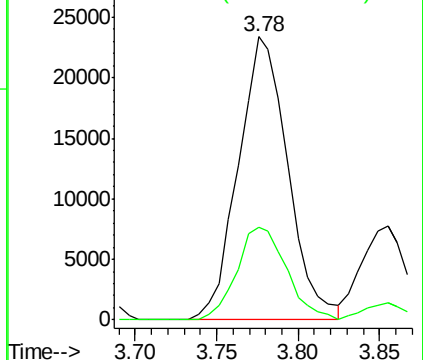
50 100

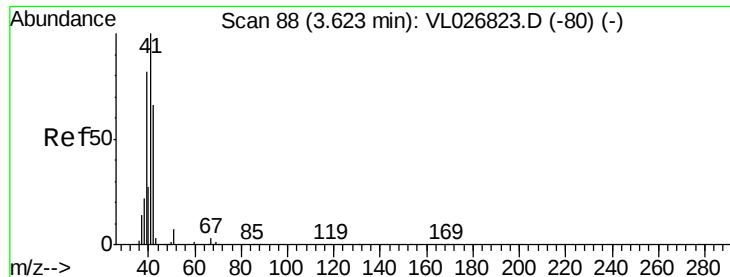
52 32.9 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 7.54 ppbv

RT: 3.85 min Scan# 126

Delta R.T. 0.23 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

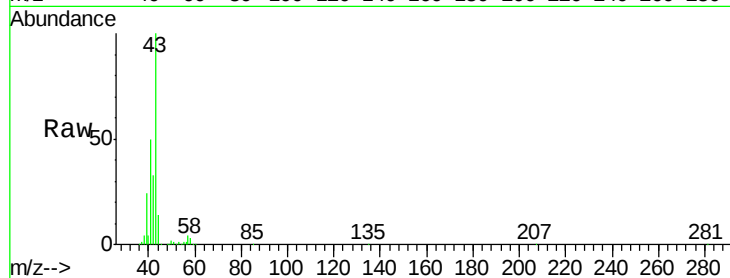
ClientSampleId :

Tgt Ion: 41 Resp: 468836

Ion Ratio Lower Upper

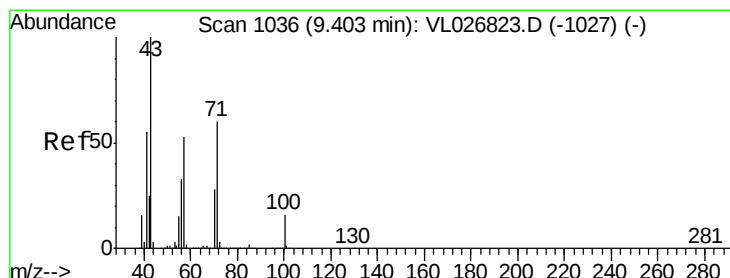
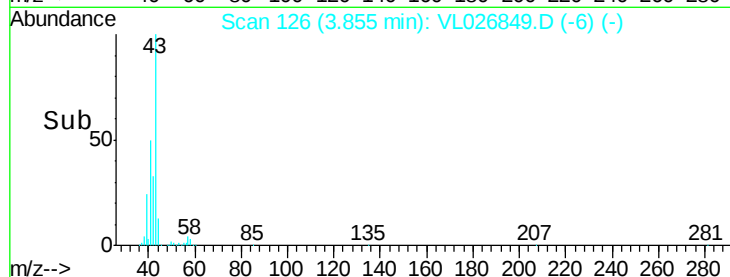
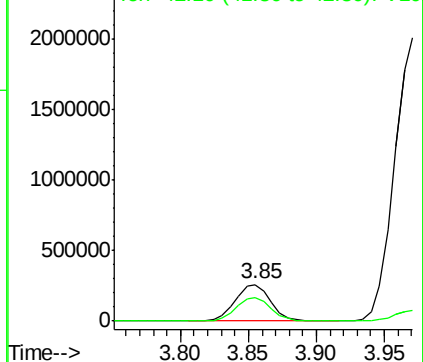
41 100

42 66.5 52.8 79.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.07 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VL026849.D

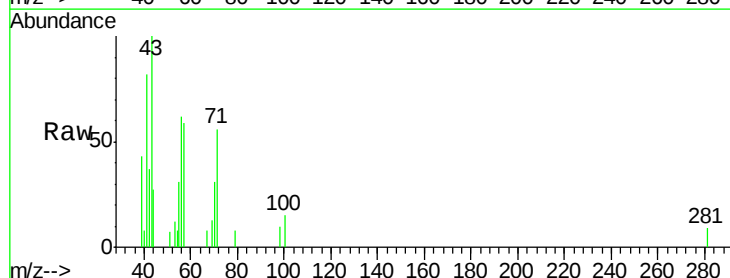
Acq: 10 Feb 2016 10:54

Tgt Ion: 43 Resp: 14126

Ion Ratio Lower Upper

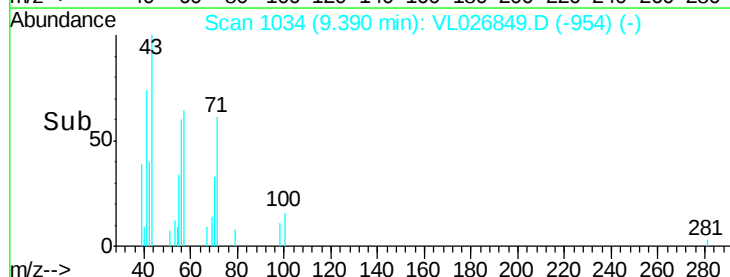
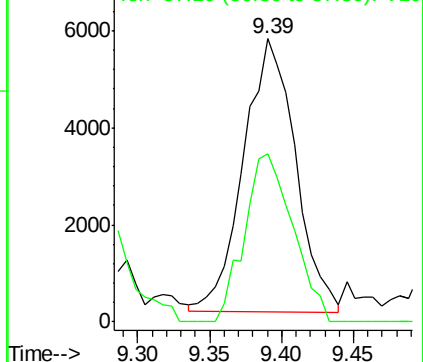
43 100

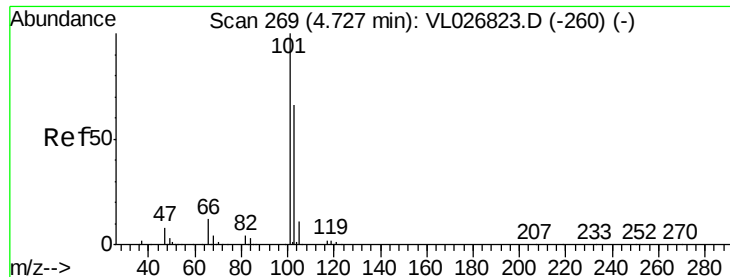
57 57.0 44.0 66.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

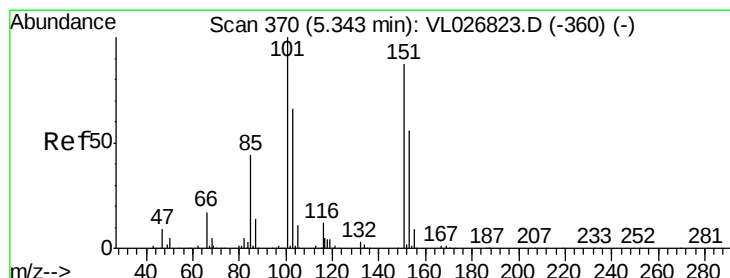
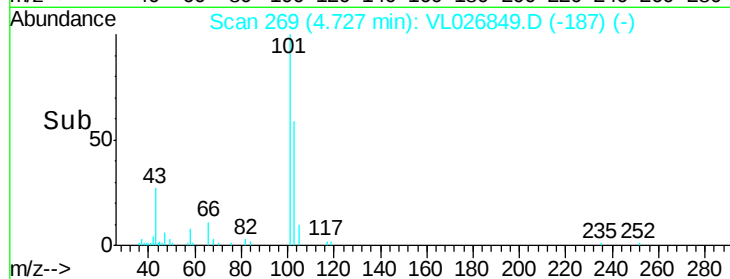
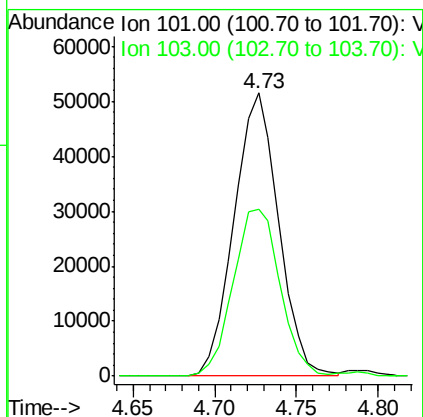
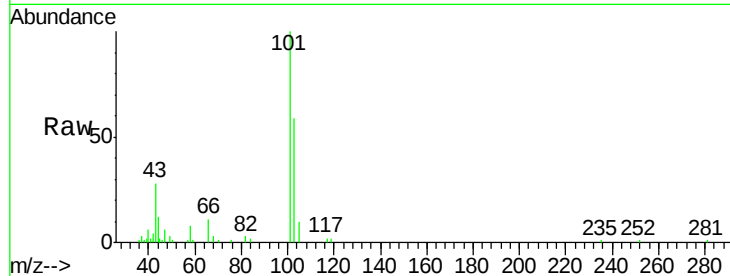




#11
 Trichlorofluoromethane
 Concen: 0.27 ppbv
 RT: 4.73 min Scan# 269
 Delta R.T. -0.00 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

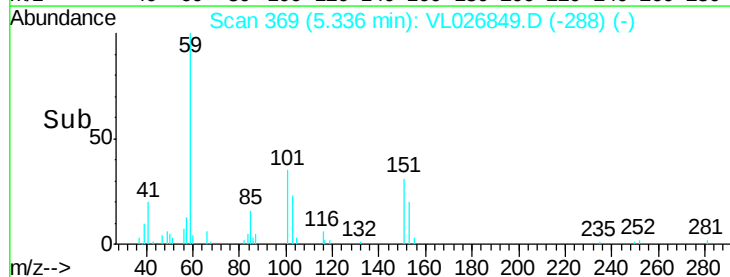
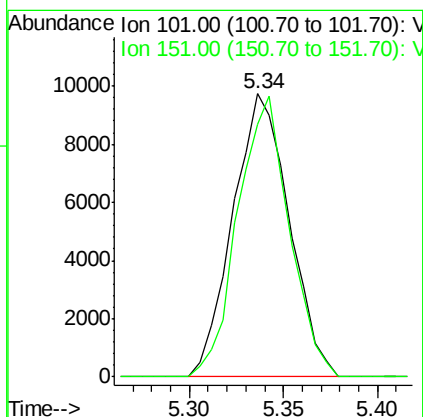
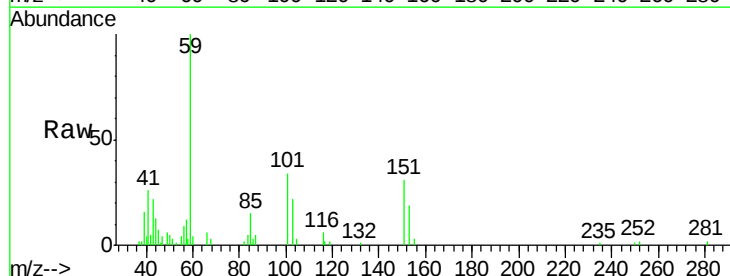
Instrument :
 MSVOA_L
 ClientSampleId :

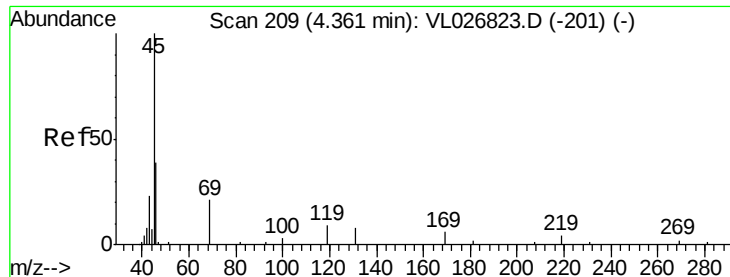
Tgt Ion:101 Resp: 98144
 Ion Ratio Lower Upper
 101 100
 103 58.8 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.08 ppbv
 RT: 5.34 min Scan# 369
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Tgt Ion:101 Resp: 20203
 Ion Ratio Lower Upper
 101 100
 151 90.5 69.4 104.0





#13

Ethanol

Concen: 11.24 ppbv

RT: 4.35 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

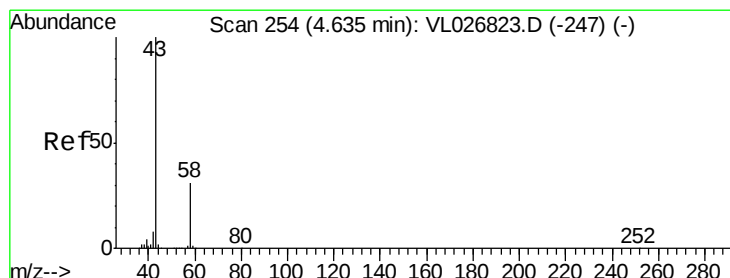
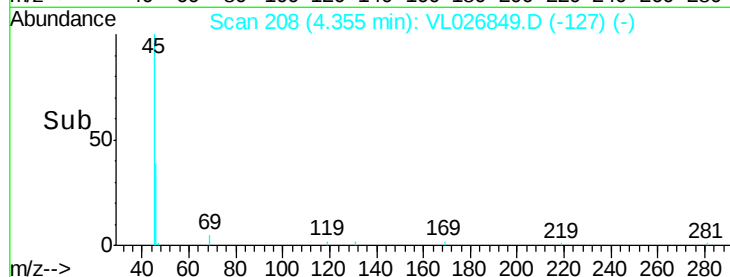
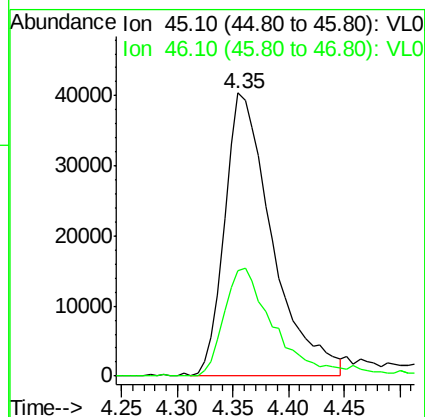
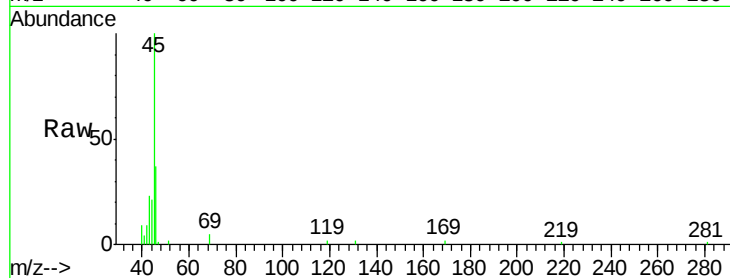
ClientSampled :

Tgt Ion: 45 Resp: 120112

Ion Ratio Lower Upper

45 100

46 41.0 15.8 63.4



#15

Acetone

Concen: 19.06 ppbv

RT: 4.62 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL026849.D

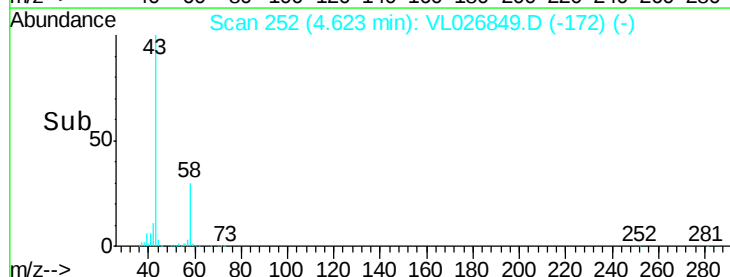
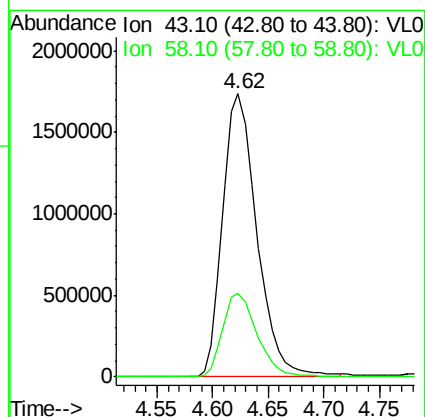
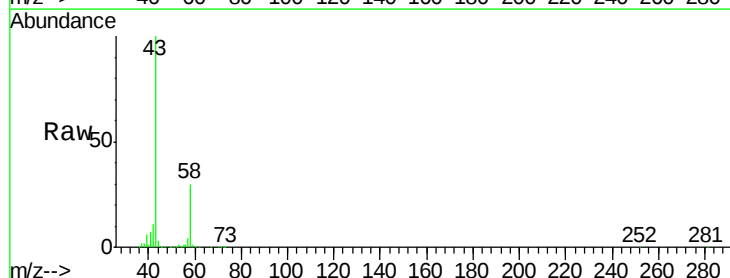
Acq: 10 Feb 2016 10:54

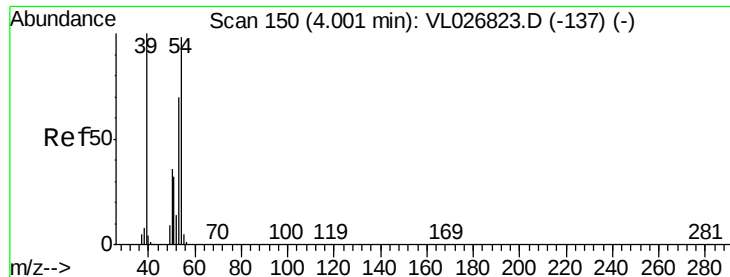
Tgt Ion: 43 Resp: 3711974

Ion Ratio Lower Upper

43 100

58 30.5 25.2 37.8

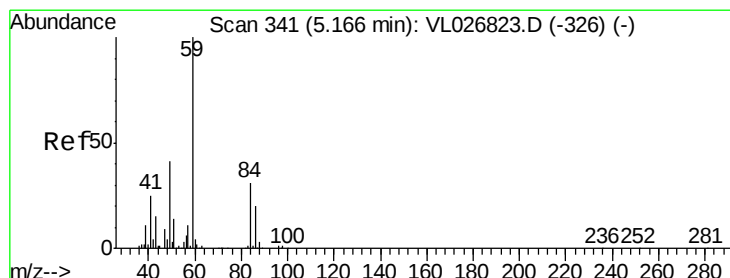
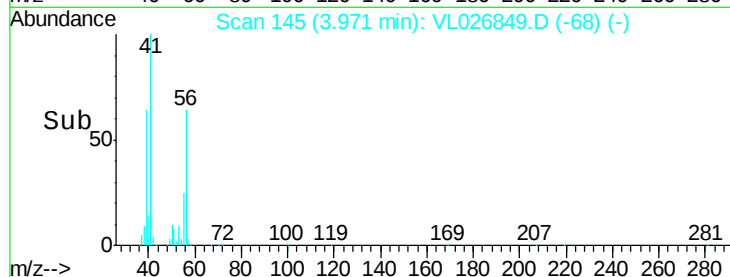
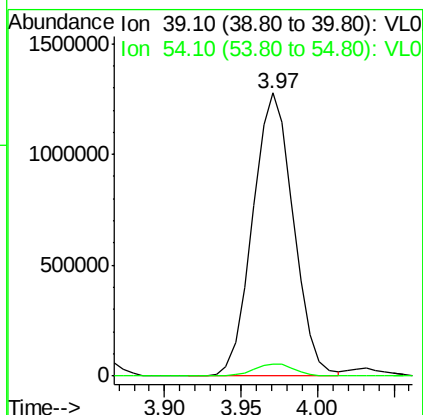
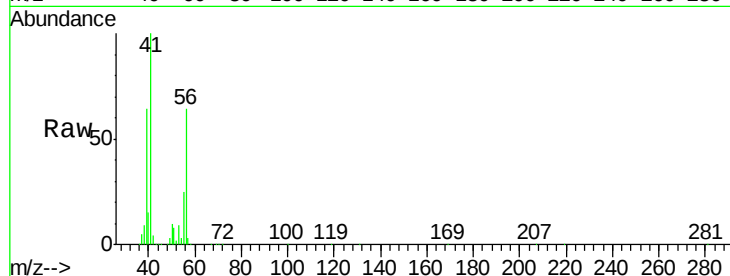




#16
 1,3-Butadiene
 Concen: 31.02 ppbv
 RT: 3.97 min Scan# 145
 Delta R.T. -0.03 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

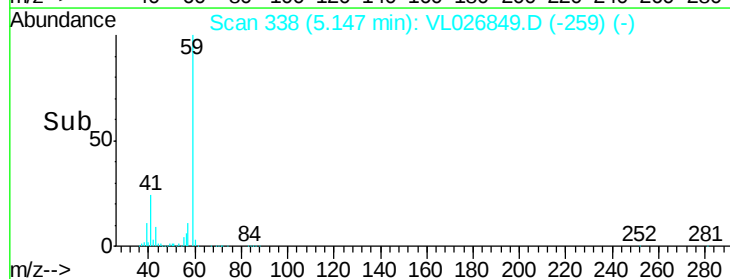
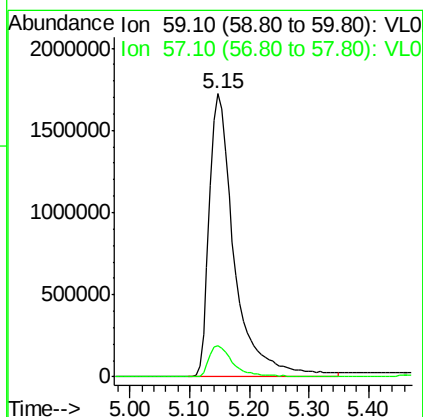
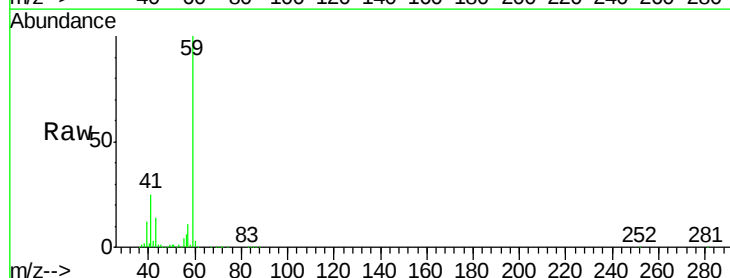
Instrument :
 MSVOA_L
 ClientSampleId :

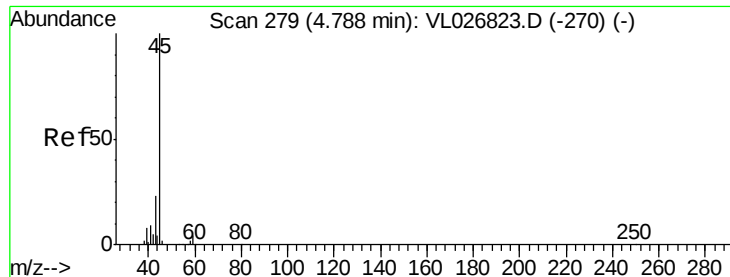
Tgt Ion: 39 Resp: 2358880
 Ion Ratio Lower Upper
 39 100
 54 4.6 74.7 112.1#



#17
 tert-Butyl alcohol
 Concen: 39.30 ppbv
 RT: 5.15 min Scan# 338
 Delta R.T. -0.02 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Tgt Ion: 59 Resp: 5053420
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.5 12.7





#19

Isopropyl Alcohol

Concen: 2.05 ppbv

RT: 4.79 min Scan# 279

Delta R.T. -0.00 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

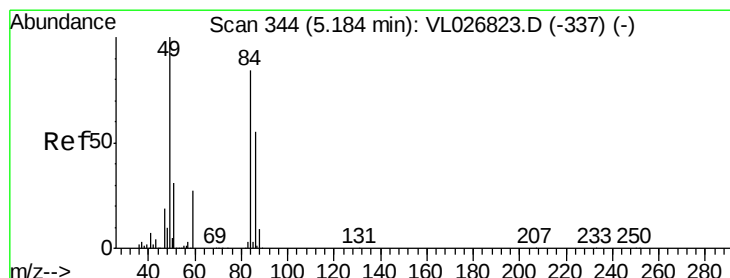
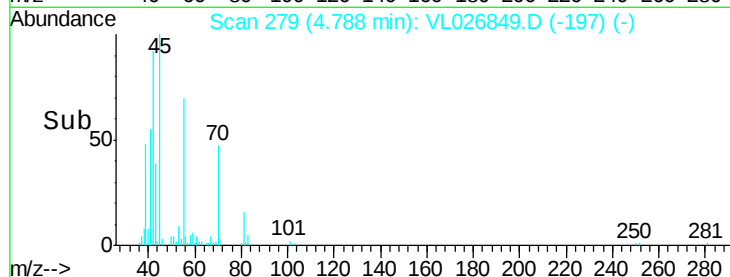
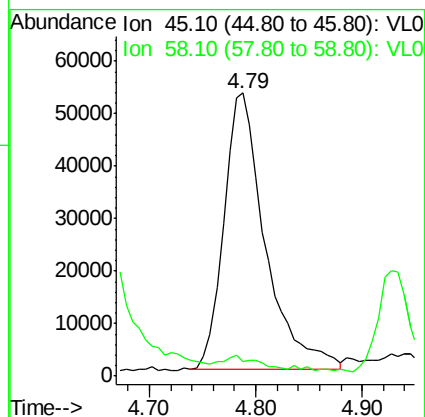
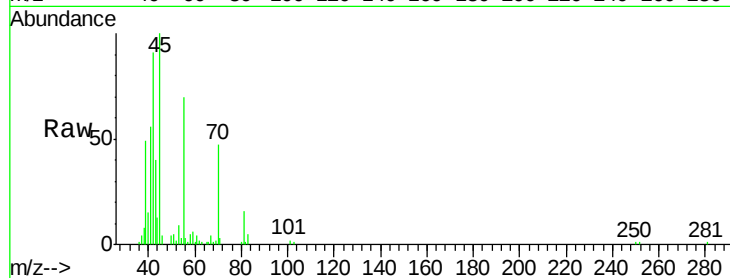
ClientSampleId :

Tgt Ion: 45 Resp: 142152

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.2#



#20

Methylene Chloride

Concen: 8.99 ppbv

RT: 5.18 min Scan# 344

Delta R.T. -0.00 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 84 Resp: 907679

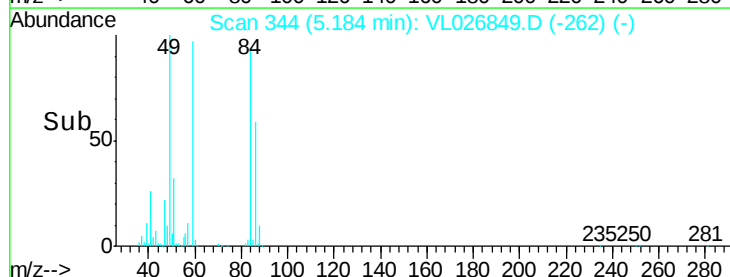
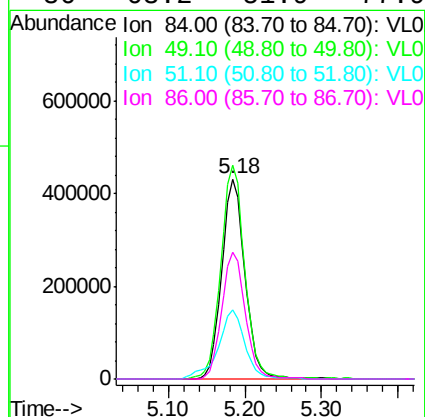
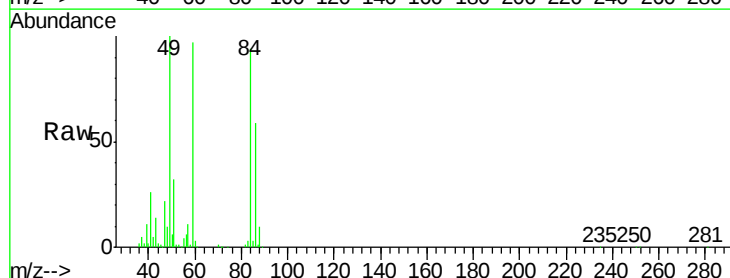
Ion Ratio Lower Upper

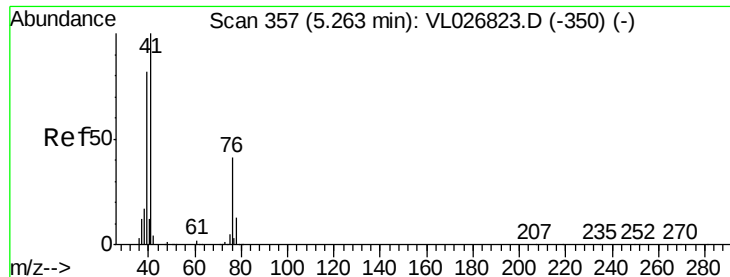
84 100

49 106.4 94.9 142.3

51 34.5 29.5 44.3

86 63.2 51.9 77.9





#21

Allyl Chloride

Concen: 10.21 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.12 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampled :

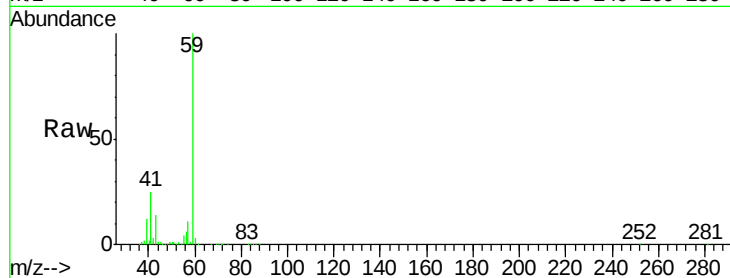
Tgt Ion: 41 Resp: 1227907

Ion Ratio Lower Upper

41 100

76 0.0 32.0 48.0#

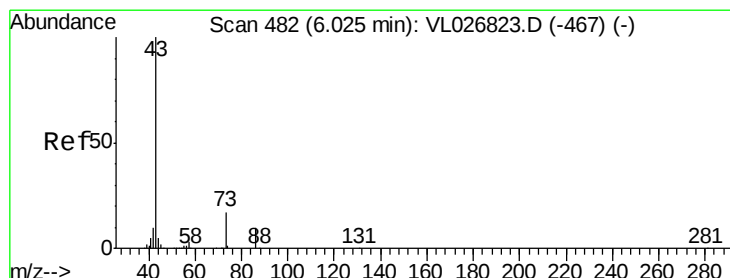
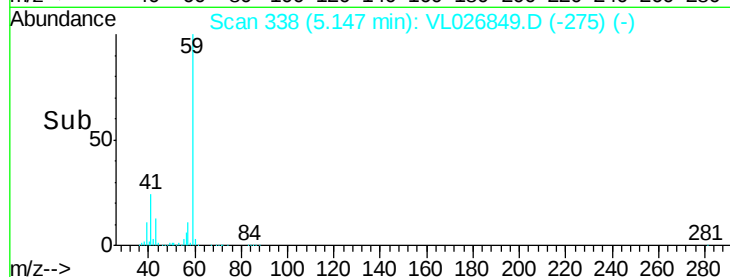
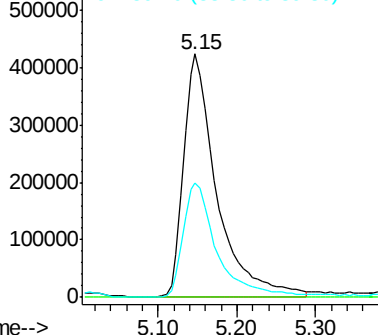
39 49.0 64.6 96.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 24.25 ppbv

RT: 6.04 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 43 Resp: 6405196

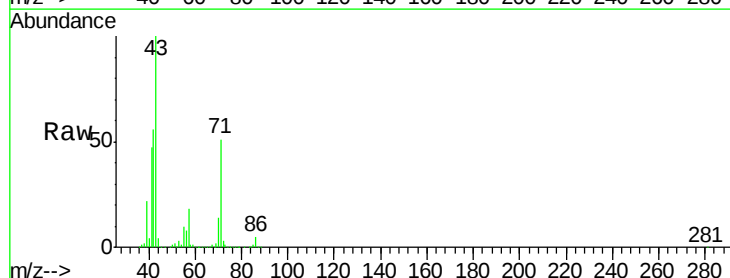
Ion Ratio Lower Upper

43 100

86 5.5 7.7 11.5#

42 55.9 7.8 11.8#

44 3.6 3.9 5.9#

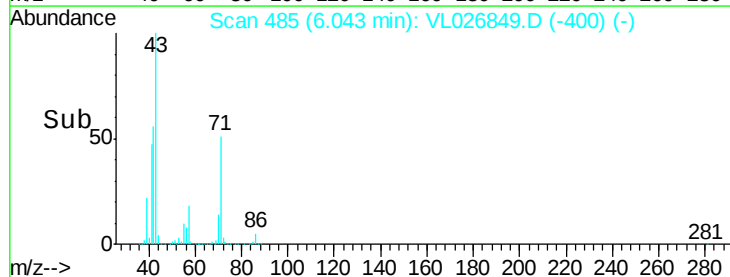
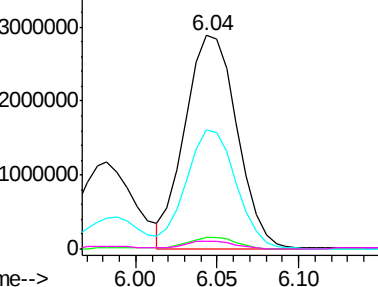


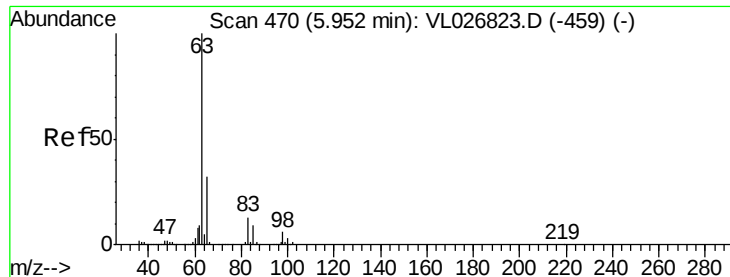
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.03 ppbv

RT: 5.95 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

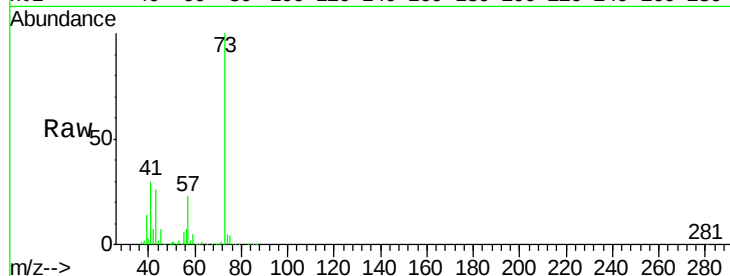
Tgt Ion: 63 Resp: 7003

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.7#

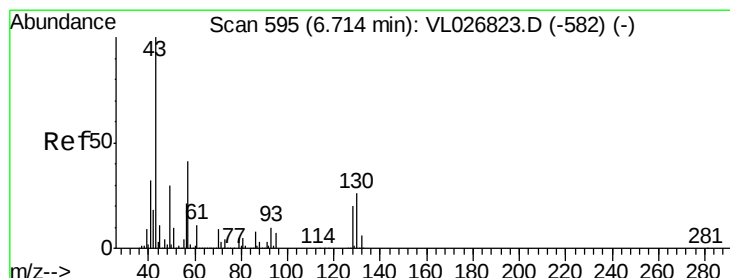
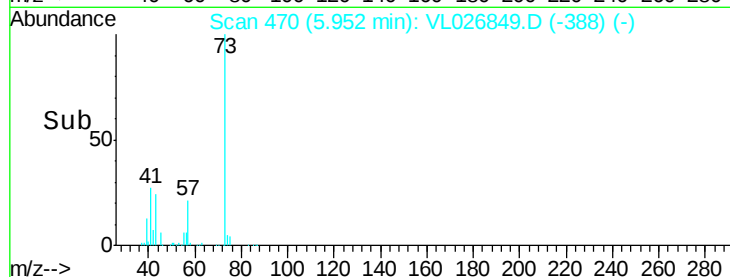
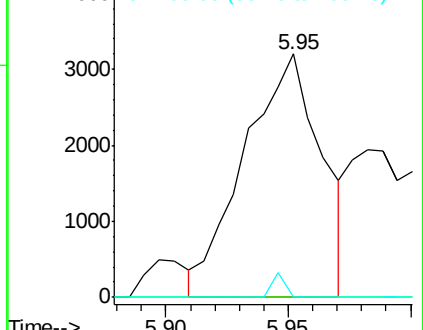
100 0.0 1.7 5.1#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 1.65 ppbv

RT: 6.70 min Scan# 592

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 43 Resp: 481526

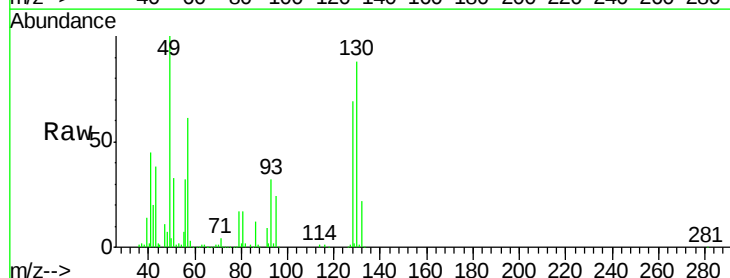
Ion Ratio Lower Upper

43 100

45 4.3 7.8 11.8#

61 1.6 7.9 11.9#

70 2.8 6.9 10.3#

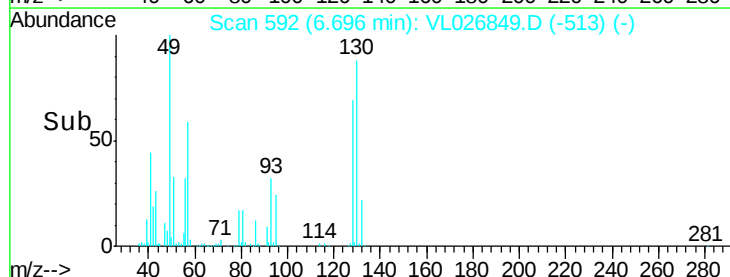
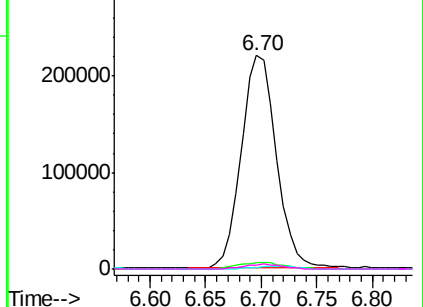


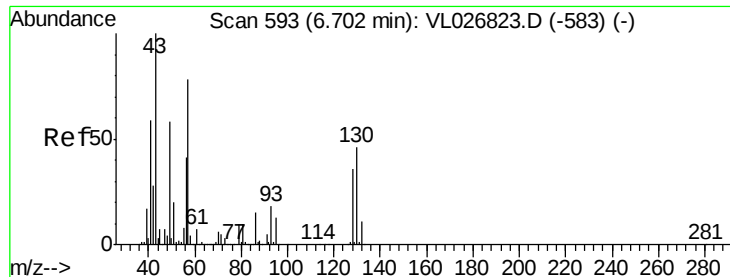
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

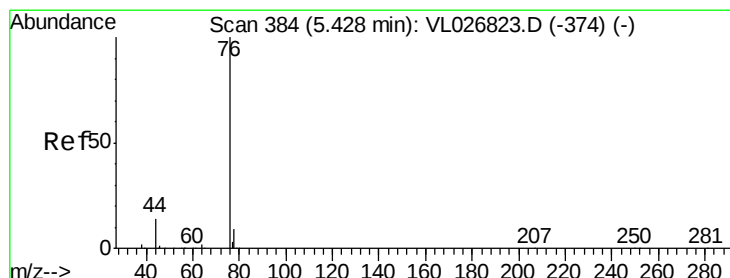
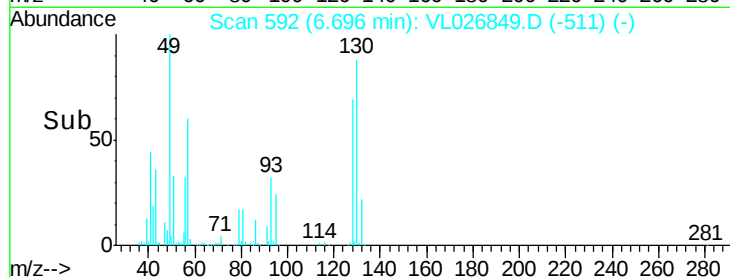
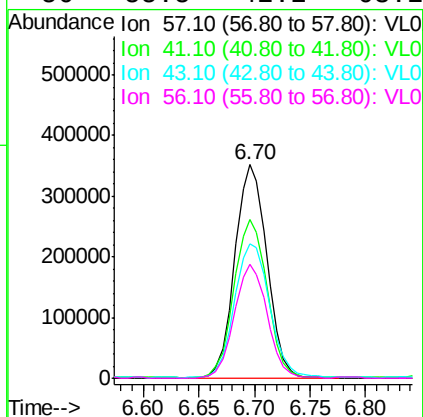
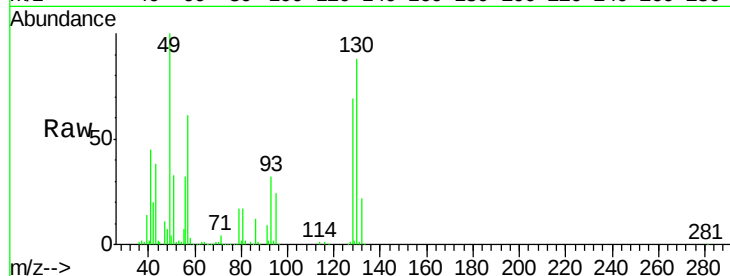




#26
Hexane
Concen: 4.27 ppbv
RT: 6.70 min Scan# 592
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

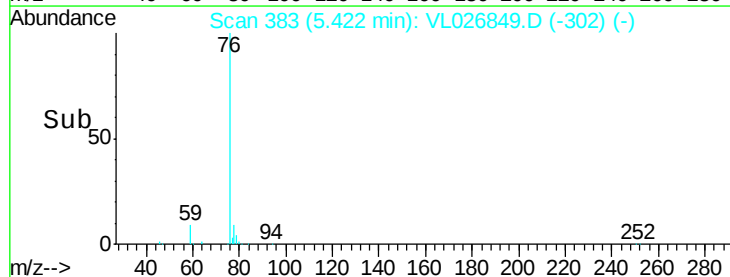
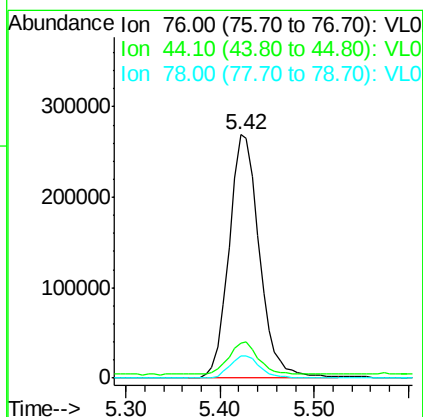
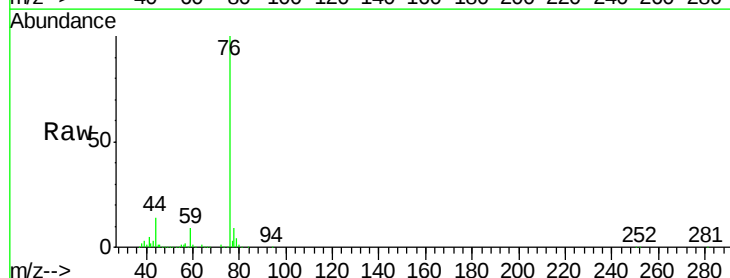
Instrument :
MSVOA_L
ClientSampleId :

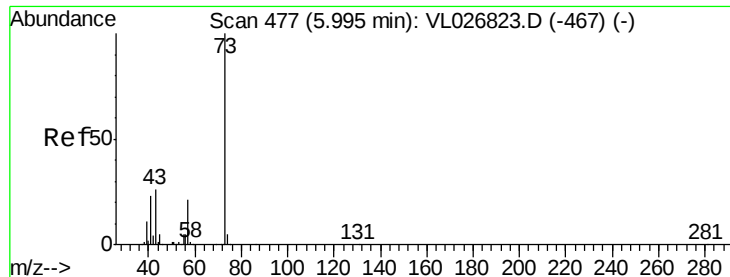
Tgt Ion: 57 Resp: 703148
Ion Ratio Lower Upper
57 100
41 76.8 63.3 94.9
43 70.4 151.4 227.2#
56 55.5 42.2 63.2



#27
Carbon Disulfide
Concen: 2.14 ppbv
RT: 5.42 min Scan# 383
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 76 Resp: 605912
Ion Ratio Lower Upper
76 100
44 13.5 12.1 18.1
78 9.6 7.7 11.5

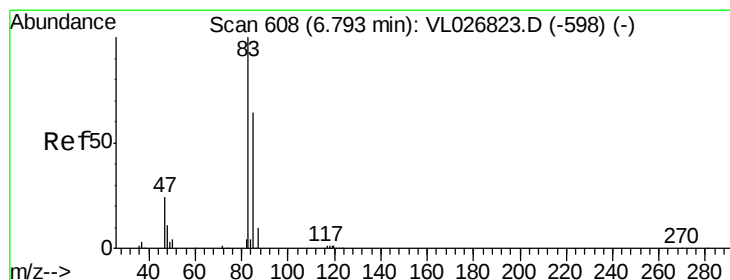
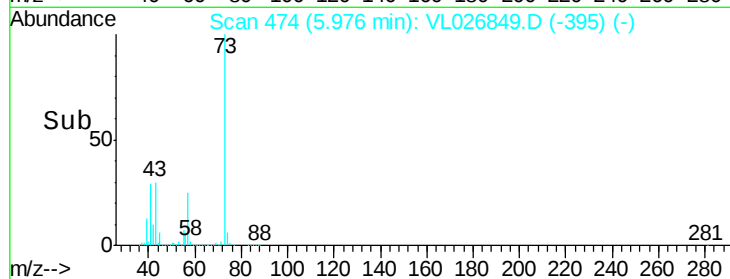
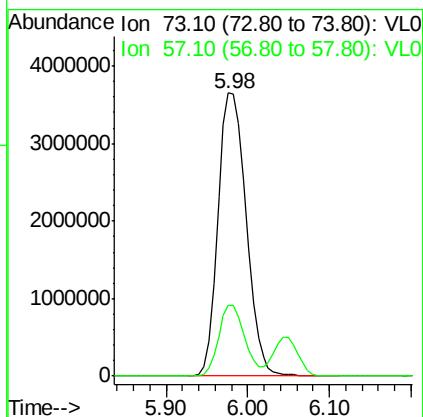
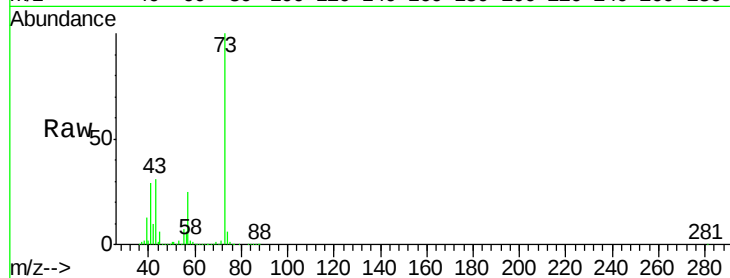




#28
Methyl tert-Butyl Ether
Concen: 34.12 ppbv
RT: 5.98 min Scan# 474
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

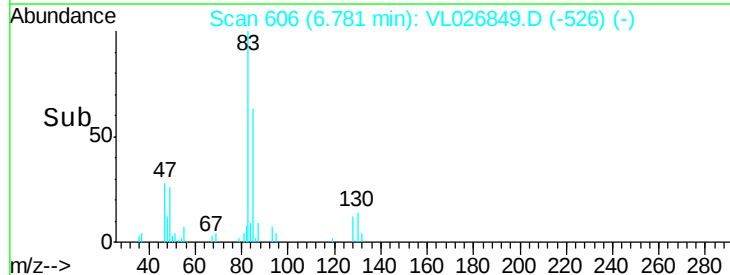
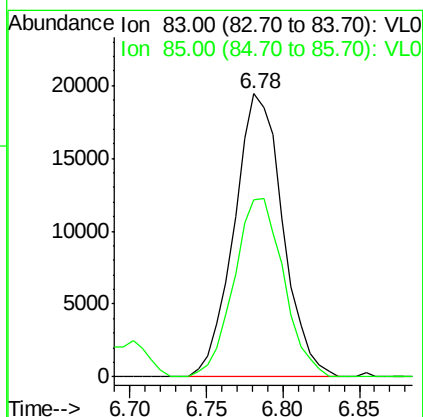
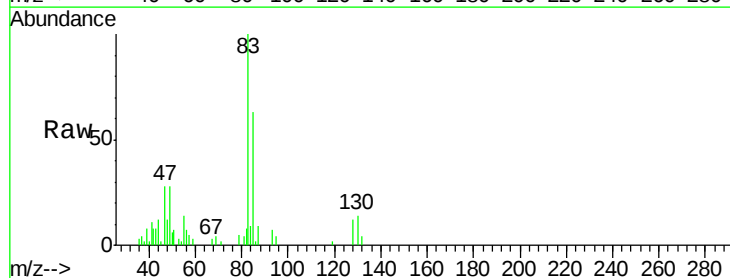
Instrument :
MSVOA_L
ClientSampleId :

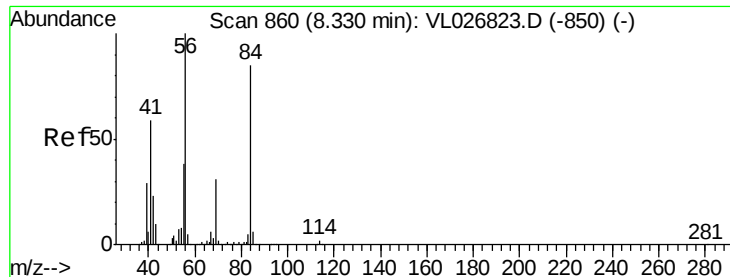
Tgt Ion: 73 Resp: 8781263
Ion Ratio Lower Upper
73 100
57 23.3 17.0 25.6



#29
Chloroform
Concen: 0.17 ppbv
RT: 6.78 min Scan# 606
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 83 Resp: 42983
Ion Ratio Lower Upper
83 100
85 62.5 51.5 77.3

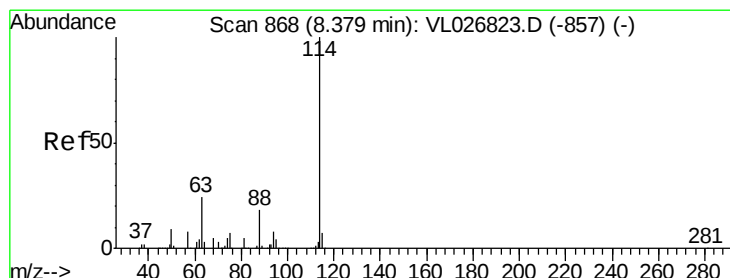
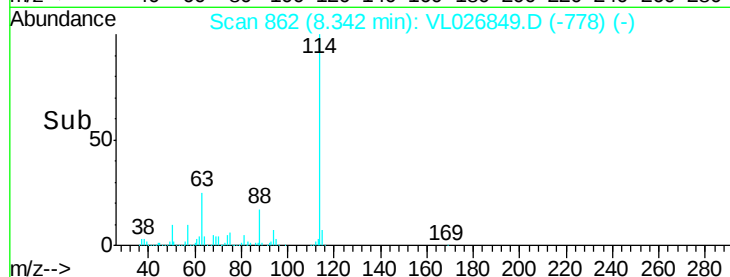
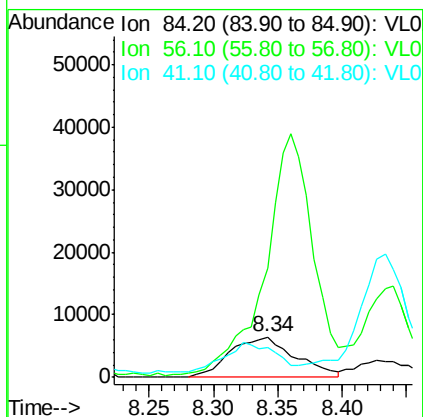
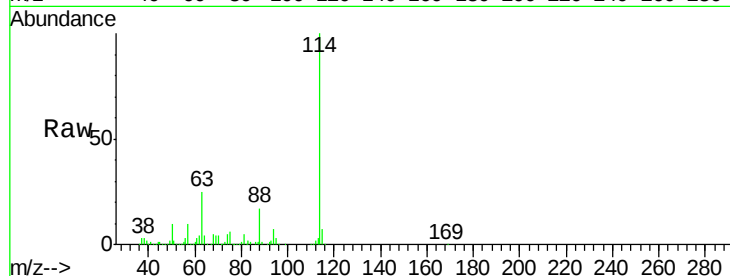




#30
Cyclohexane
Concen: 0.17 ppbv
RT: 8.34 min Scan# 862
Delta R.T. 0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

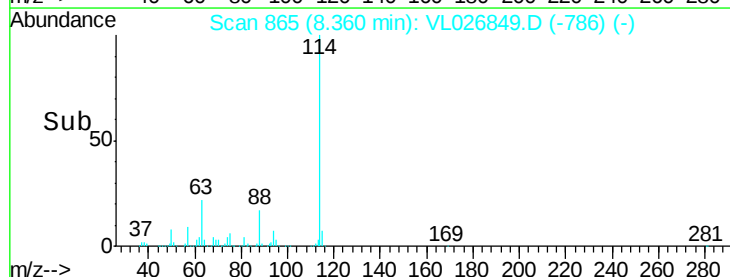
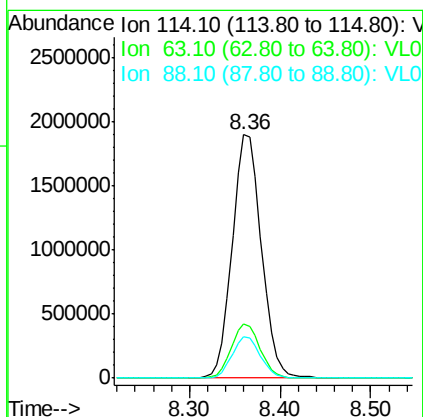
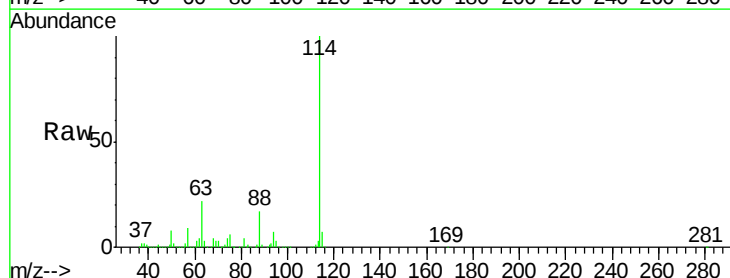
Instrument :
MSVOA_L
ClientSampleId :

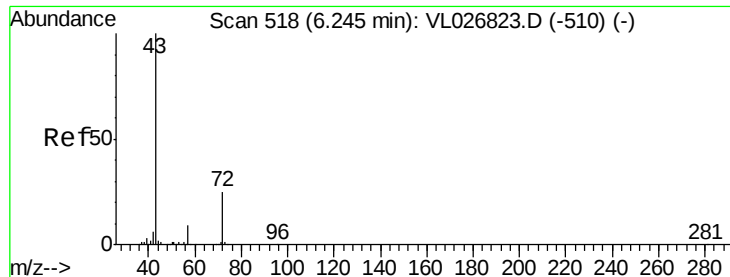
Tgt Ion: 84 Resp: 22766
Ion Ratio Lower Upper
84 100
56 451.6 99.4 149.2#
41 62.6 56.7 85.1



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.36 min Scan# 865
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 114 Resp: 4232294
Ion Ratio Lower Upper
114 100
63 22.1 19.7 29.5
88 16.5 13.8 20.6

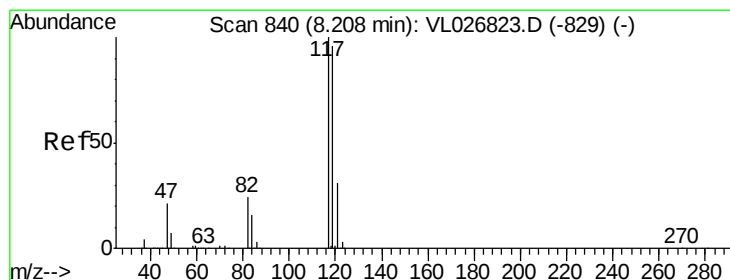
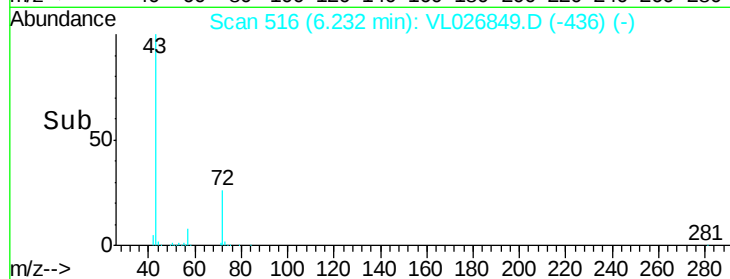
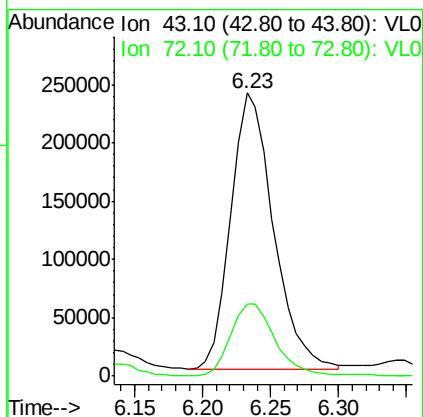
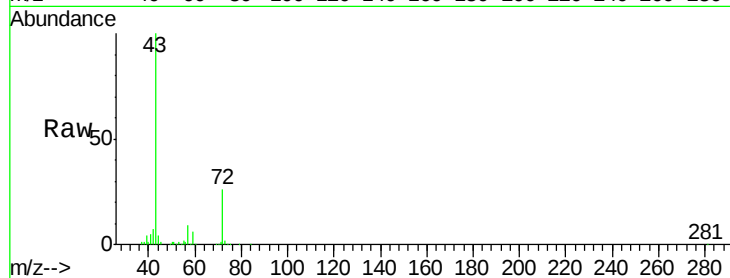




#34
 2-Butanone
 Concen: 2.49 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

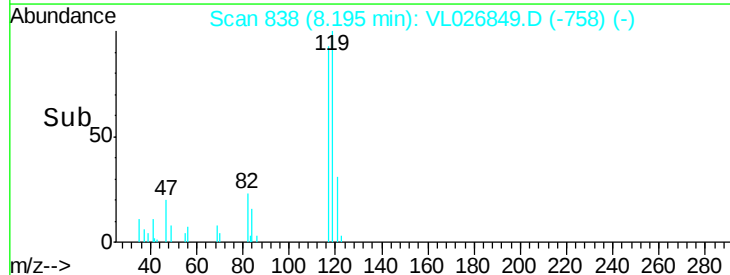
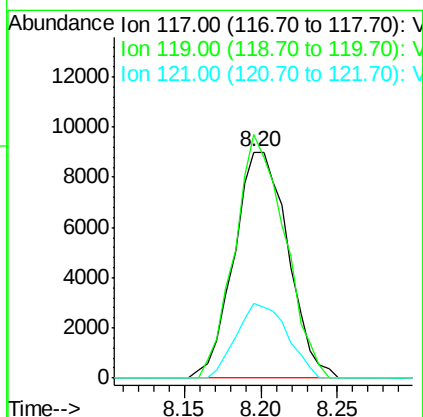
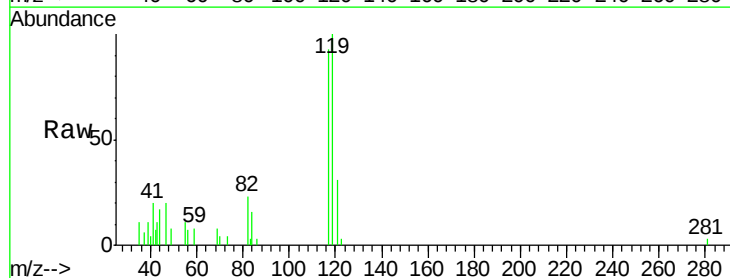
Instrument :
 MSVOA_L
 ClientSampled :

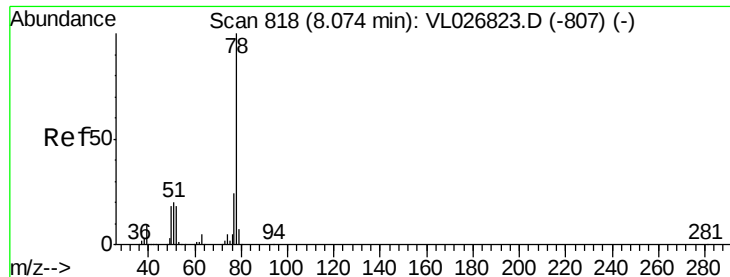
Tgt Ion: 43 Resp: 517059
 Ion Ratio Lower Upper
 43 100
 72 28.5 19.8 29.8



#35
 Carbon Tetrachloride
 Concen: 0.07 ppbv
 RT: 8.20 min Scan# 838
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Tgt Ion: 117 Resp: 22012
 Ion Ratio Lower Upper
 117 100
 119 107.6 76.6 115.0
 121 32.8 25.0 37.4





#36

Benzene

Concen: 0.32 ppbv

RT: 8.06 min Scan# 816

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :
MSVOA_L
ClientSampleId :

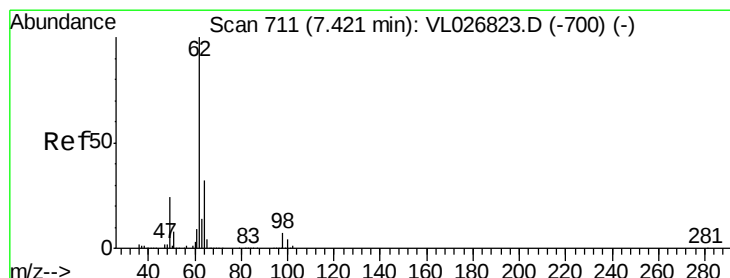
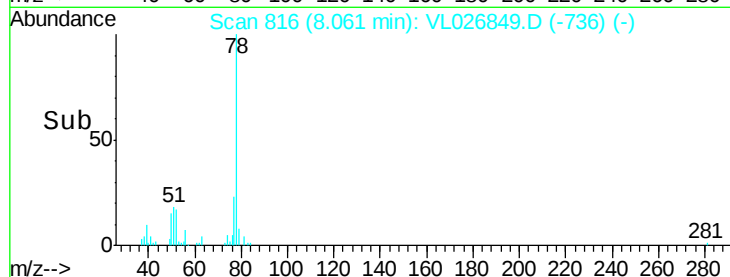
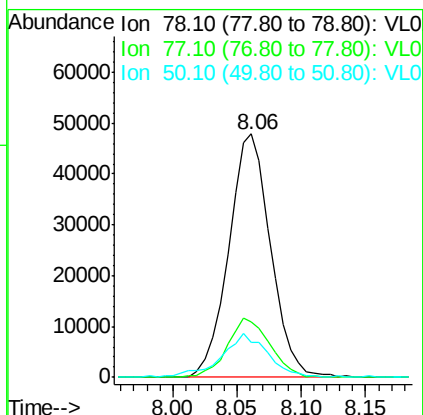
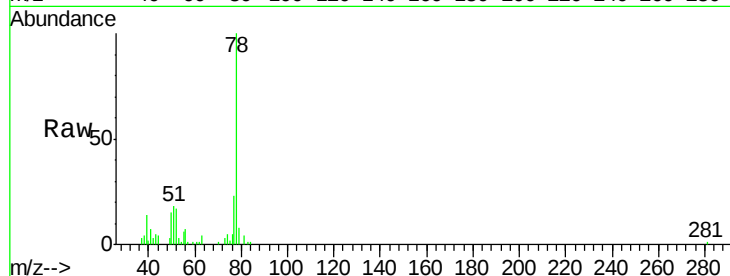
Tgt Ion: 78 Resp: 107950

Ion Ratio Lower Upper

78 100

77 23.0 19.0 28.6

50 13.7 14.2 21.4#



#37

1,2-Dichloroethane

Concen: 0.04 ppbv

RT: 7.41 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL026849.D

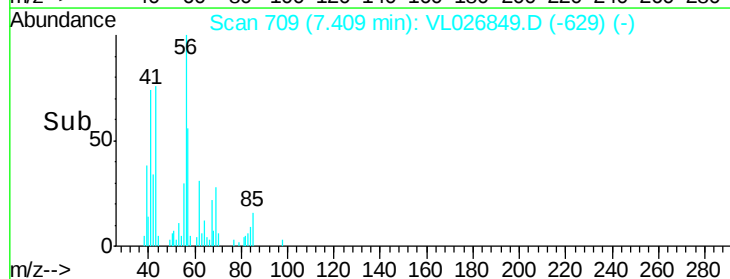
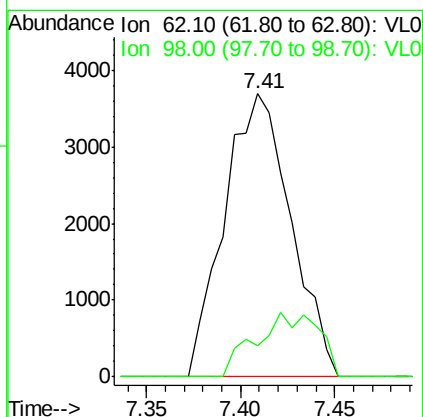
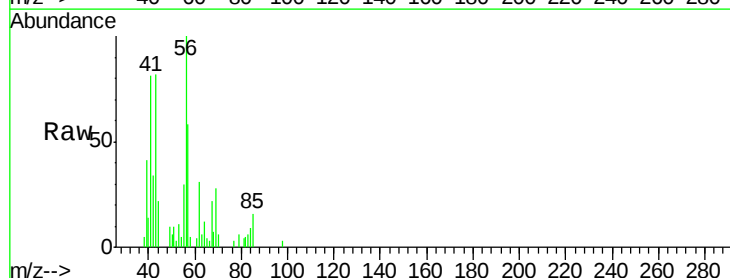
Acq: 10 Feb 2016 10:54

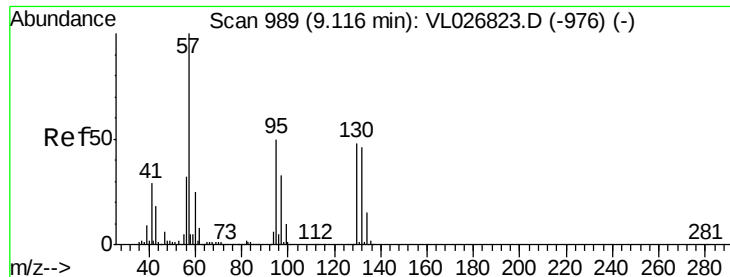
Tgt Ion: 62 Resp: 9024

Ion Ratio Lower Upper

62 100

98 21.5 5.4 8.2#





#38

Trichloroethene

Concen: 0.08 ppbv

RT: 9.10 min Scan# 987

Delta R.T. -0.01 min

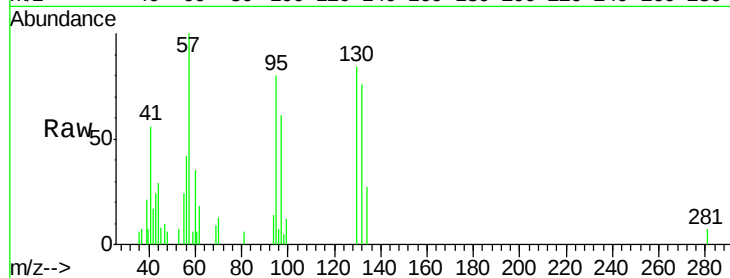
Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:130 Resp: 11742

Ion Ratio Lower Upper

130 100

95 95.6 83.0 124.6

132 90.2 76.0 114.0

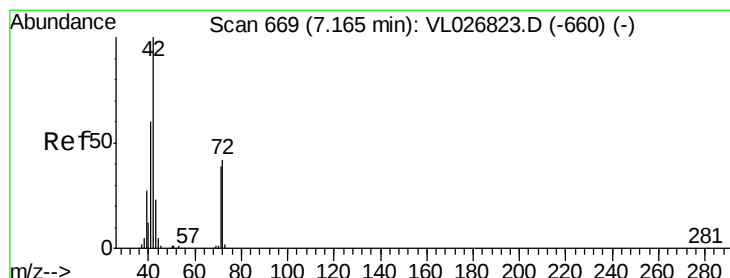
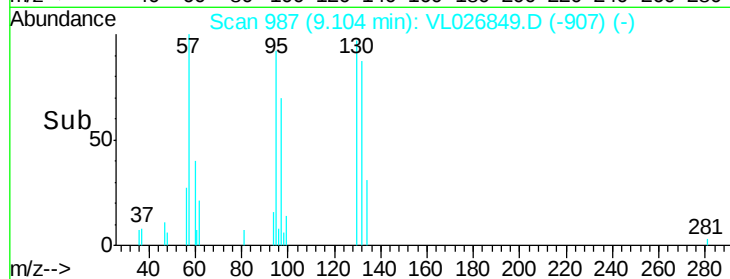
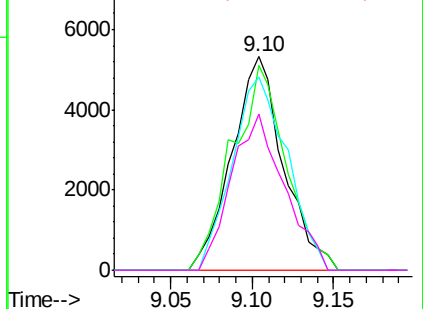
97 72.8 54.0 81.0

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



#41

Tetrahydrofuran

Concen: 0.47 ppbv

RT: 7.13 min Scan# 663

Delta R.T. -0.04 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 42 Resp: 48242

Ion Ratio Lower Upper

42 100

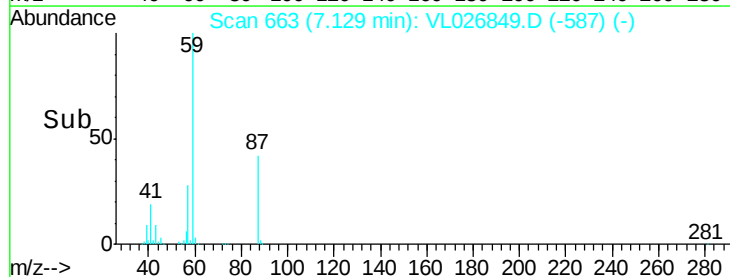
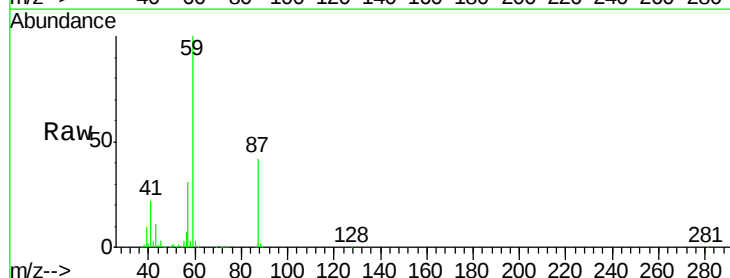
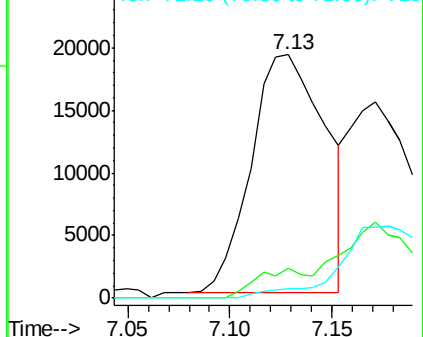
72 0.0 33.4 50.0#

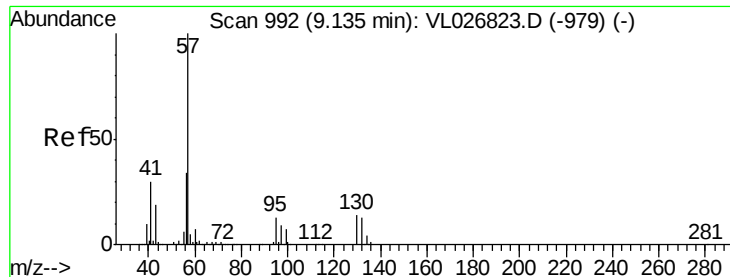
71 0.0 32.1 48.1#

Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.05 ppbv

RT: 9.12 min Scan# 990

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

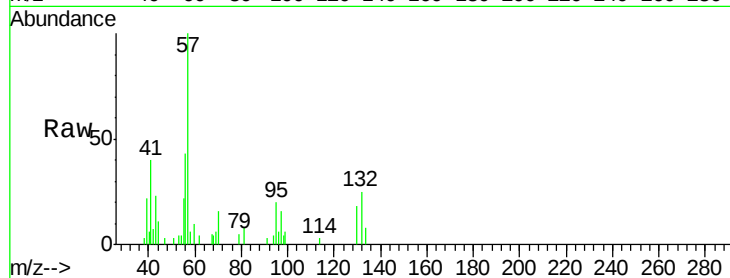
Tgt Ion: 57 Resp: 30738

Ion Ratio Lower Upper

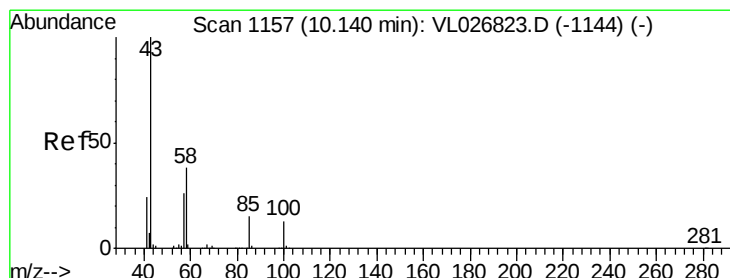
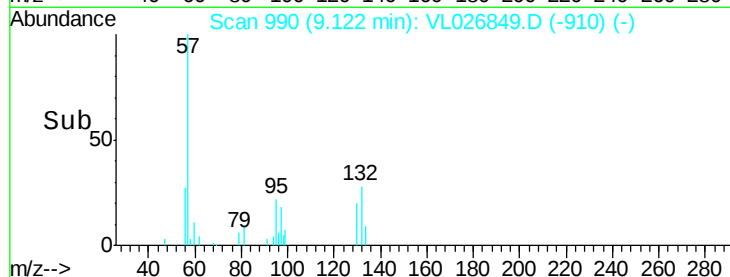
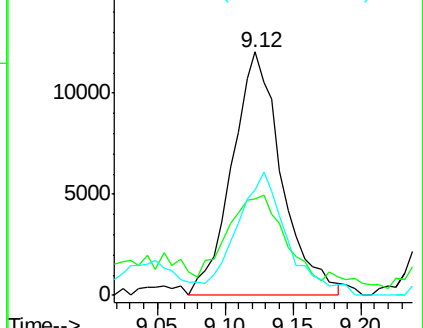
57 100

41 59.8 23.2 34.8#

56 52.7 26.2 39.4#



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: 0.14 ppbv

RT: 10.14 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VL026849.D

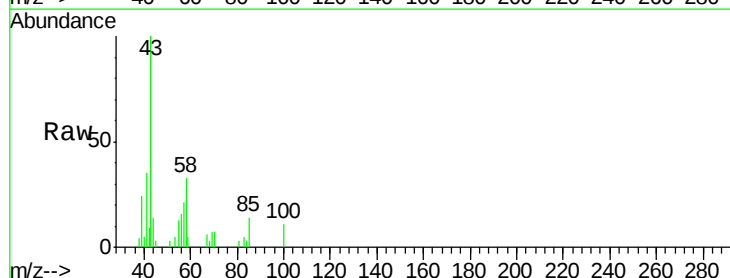
Acq: 10 Feb 2016 10:54

Tgt Ion: 43 Resp: 33351

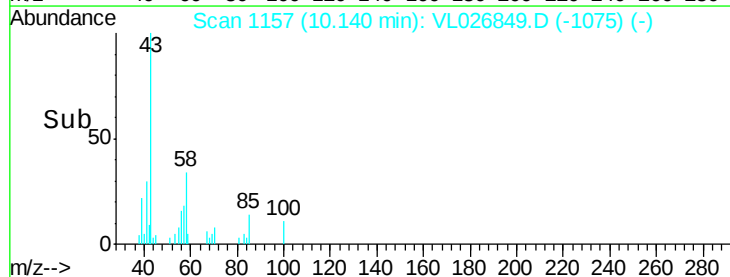
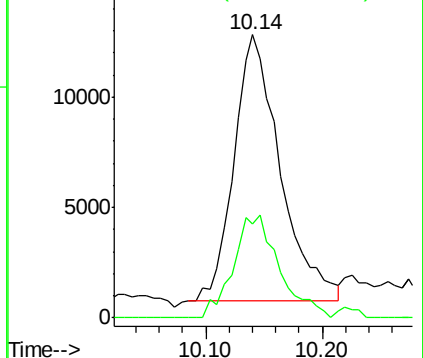
Ion Ratio Lower Upper

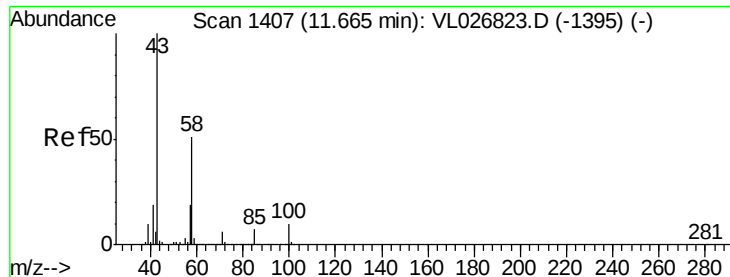
43 100

58 40.1 30.3 45.5



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





#51

2-Hexanone

Concen: 7.85 ppbv

RT: 11.57 min Scan# 1391

Delta R.T. -0.10 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

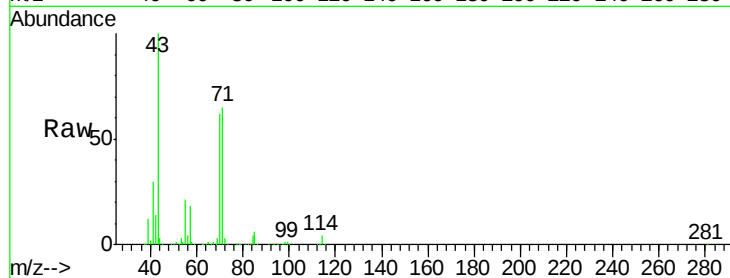
Tgt Ion: 43 Resp: 1609104

Ion Ratio Lower Upper

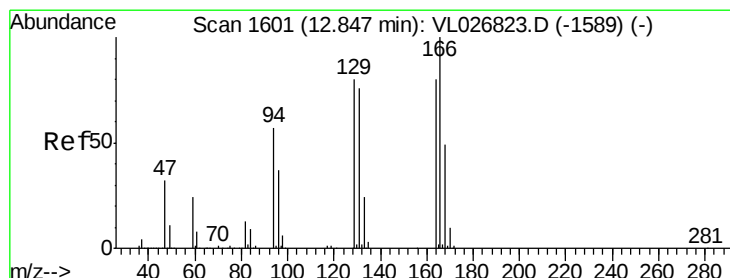
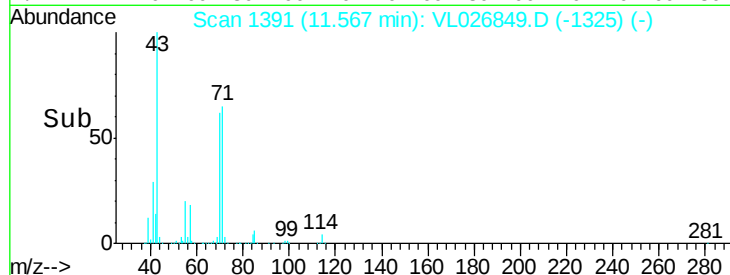
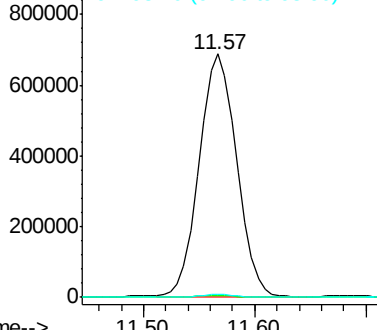
43 100

58 0.9 40.4 60.6#

98 1.2 0.2 0.4#



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: 0.56 ppbv

RT: 12.83 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 164 Resp: 74523

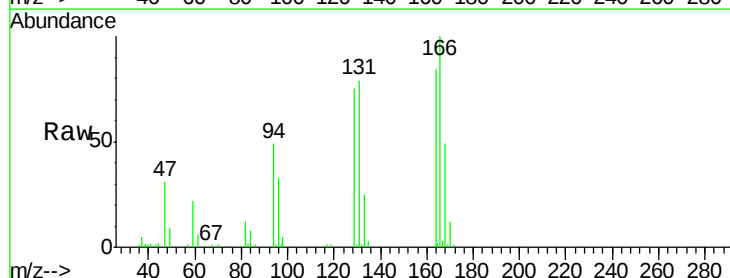
Ion Ratio Lower Upper

164 100

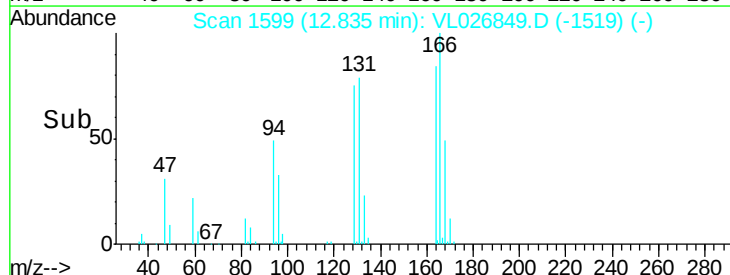
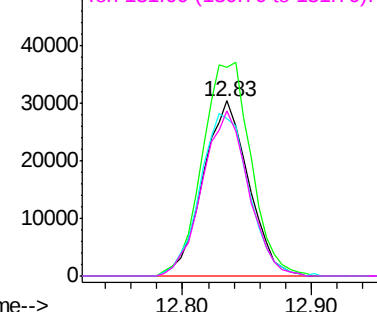
166 119.2 100.3 150.5

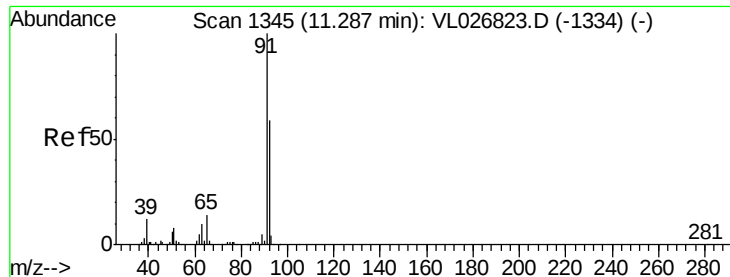
129 89.6 80.0 120.0

131 95.3 76.7 115.1



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: 1.95 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

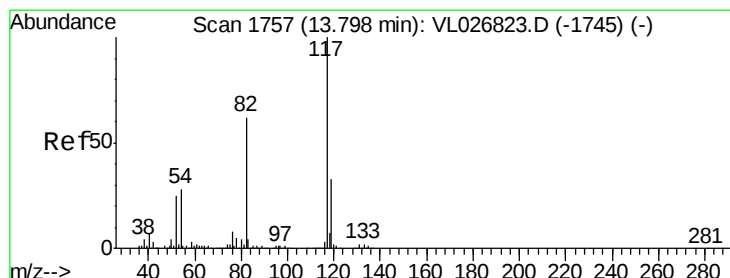
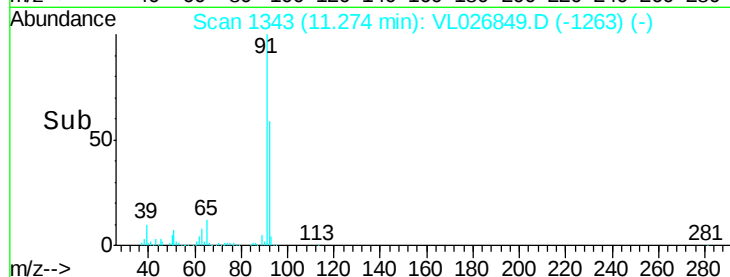
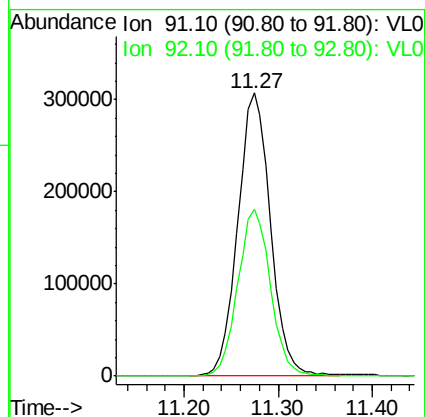
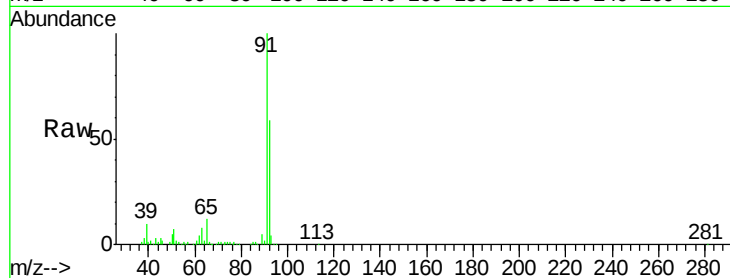
ClientSampleId :

Tgt Ion: 91 Resp: 738528

Ion Ratio Lower Upper

91 100

92 60.0 47.3 70.9



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

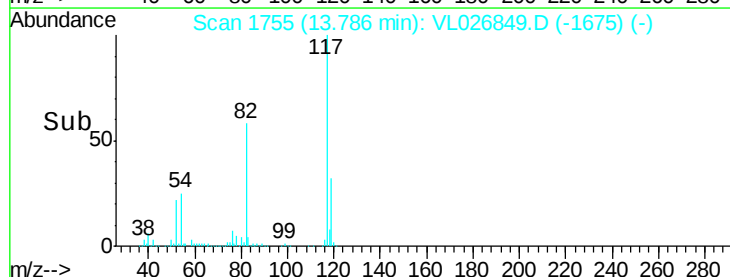
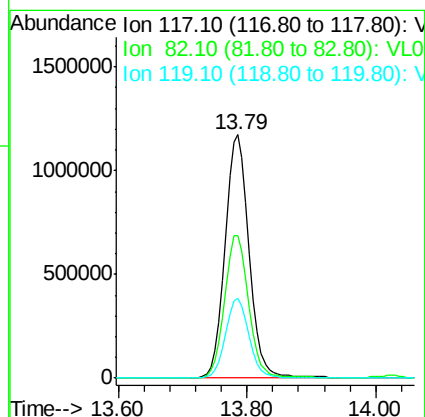
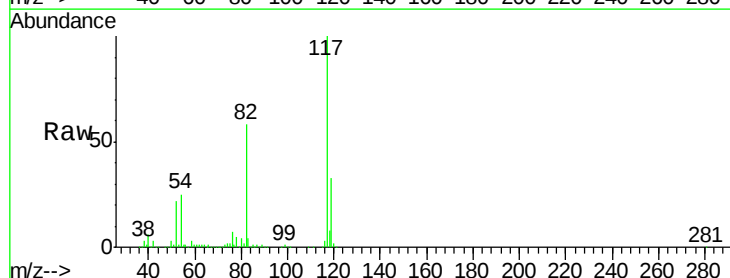
Tgt Ion: 117 Resp: 3094010

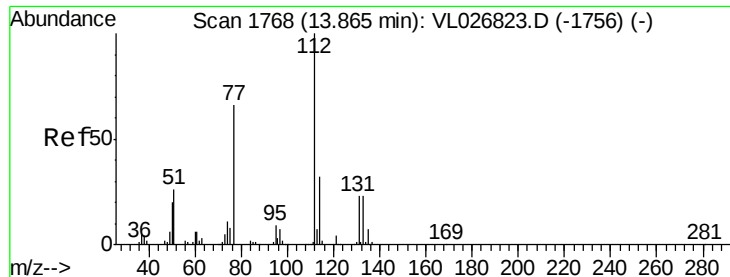
Ion Ratio Lower Upper

117 100

82 59.5 51.9 77.9

119 32.6 48.5 72.7#





#57

Chlorobenzene

Concen: 0.03 ppbv

RT: 13.87 min Scan# 1769

Delta R.T. 0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampled :

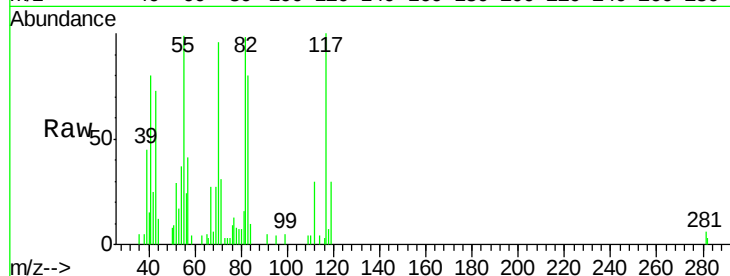
Tgt Ion: 112 Resp: 8670

Ion Ratio Lower Upper

112 100

77 43.3 53.3 79.9#

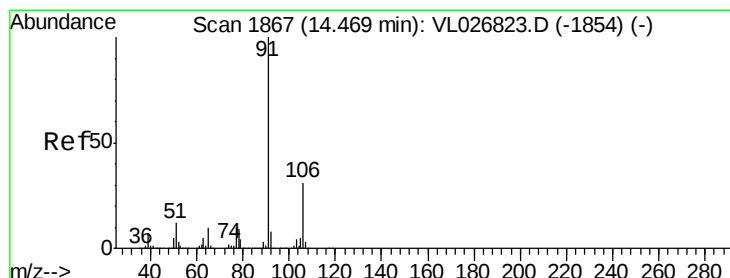
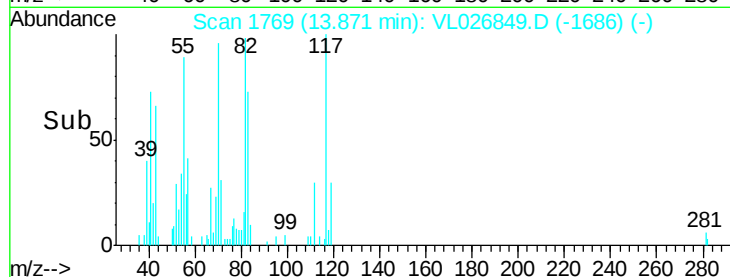
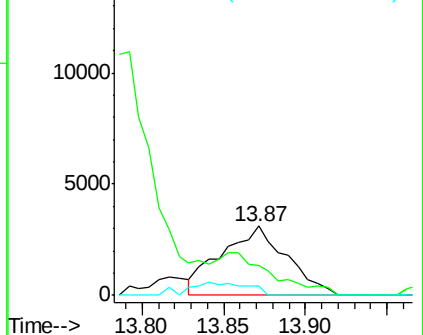
114 14.0 28.9 35.3#



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: 0.09 ppbv

RT: 14.46 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VL026849.D

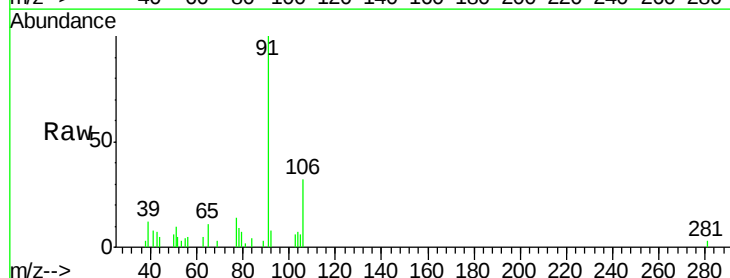
Acq: 10 Feb 2016 10:54

Tgt Ion: 91 Resp: 32772

Ion Ratio Lower Upper

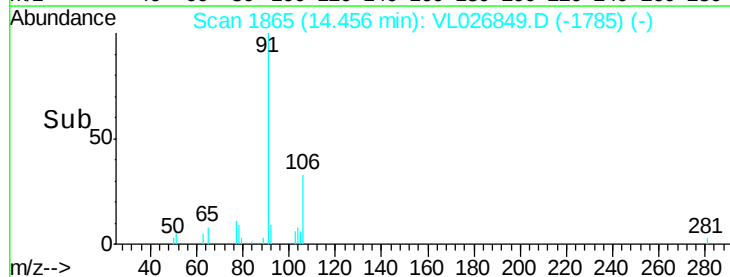
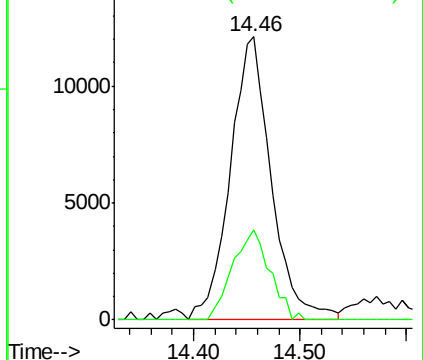
91 100

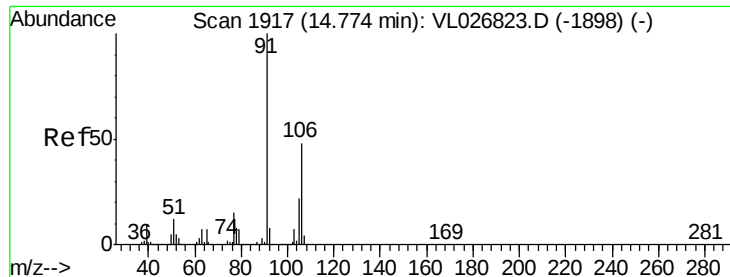
106 32.0 24.9 37.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

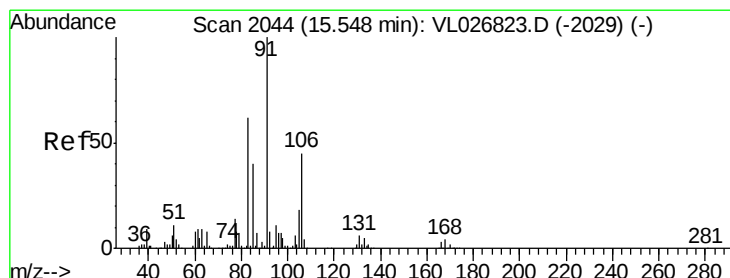
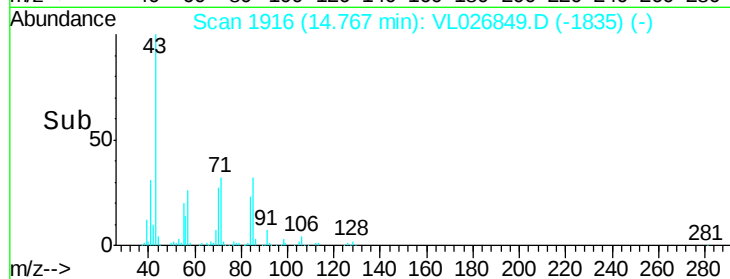
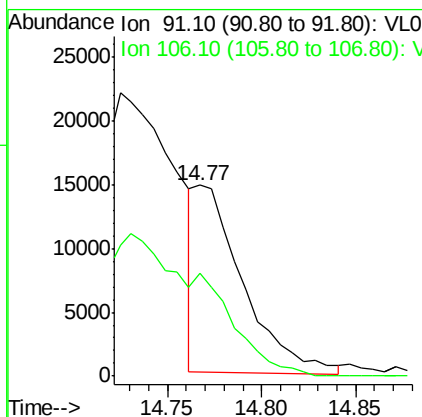
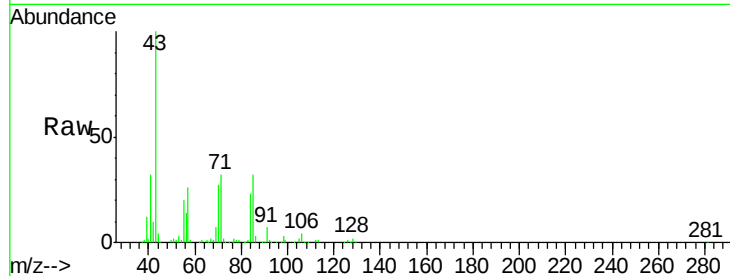




#59
m/p-Xylene
Concen: 0.08 ppbv
RT: 14.77 min Scan# 1916
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

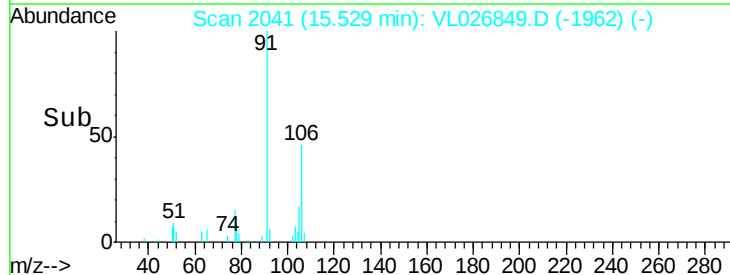
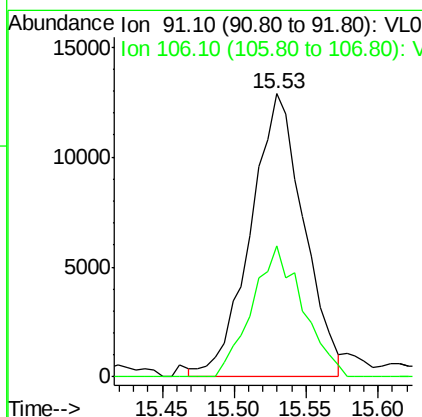
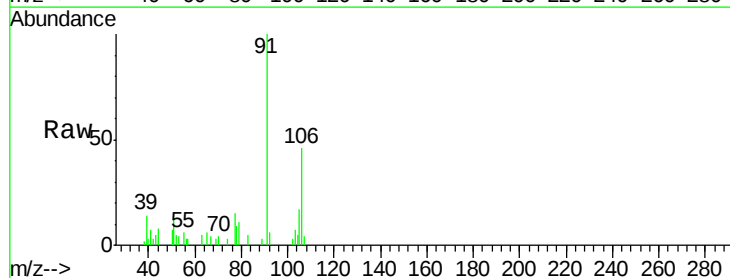
Instrument :
MSVOA_L
ClientSampled :

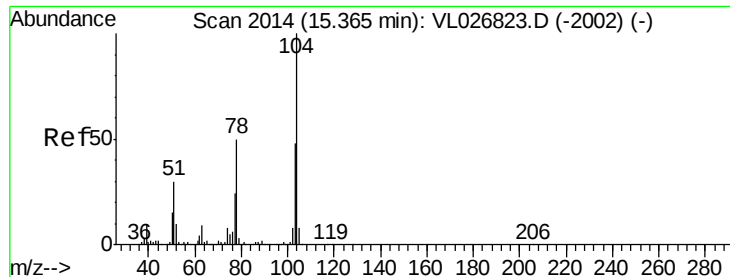
Tgt Ion: 91 Resp: 25721
Ion Ratio Lower Upper
91 100
106 0.0 38.2 57.2#



#60
o-Xylene
Concen: 0.10 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 91 Resp: 33100
Ion Ratio Lower Upper
91 100
106 44.0 22.3 66.8

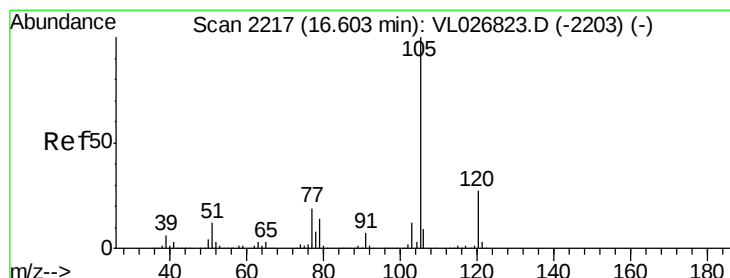
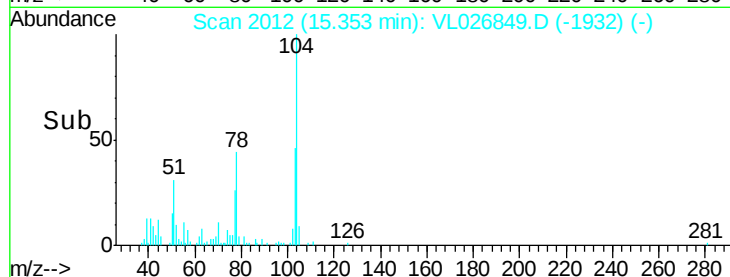
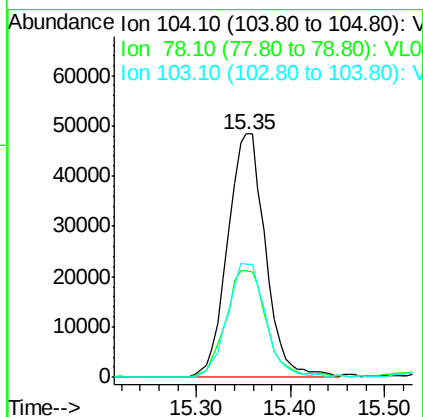
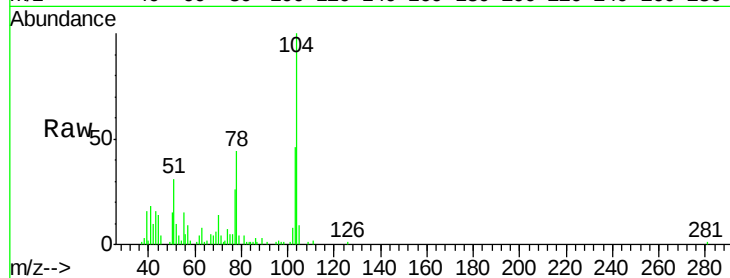




#61
Styrene
Concen: 1.15 ppbv
RT: 15.35 min Scan# 2012
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

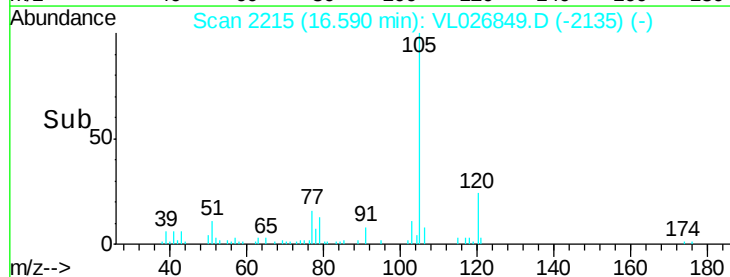
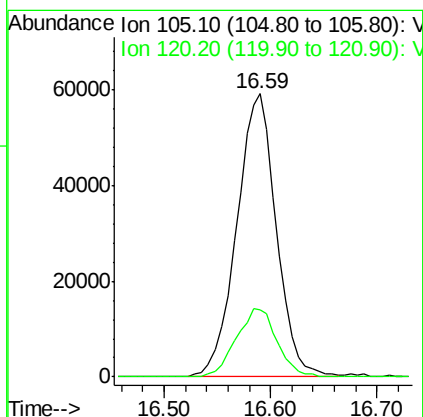
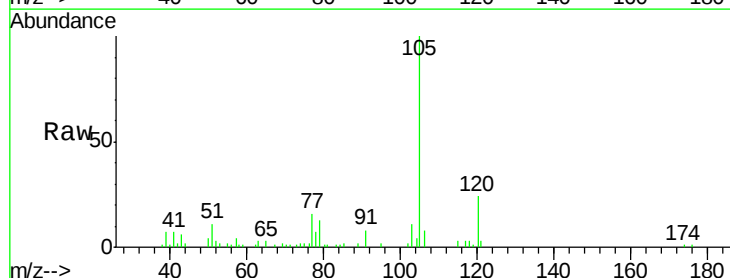
Instrument :
MSVOA_L
ClientSampleId :

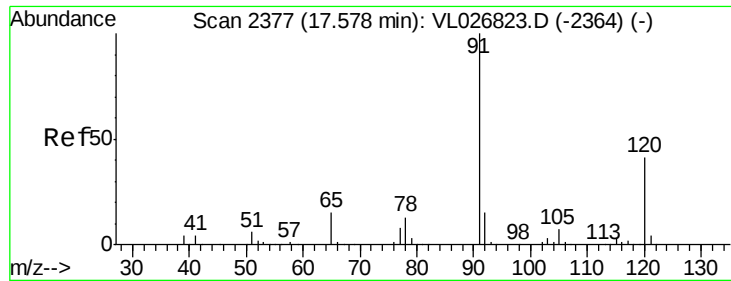
Tgt Ion:104 Resp: 135380
Ion Ratio Lower Upper
104 100
78 47.6 39.8 59.6
103 47.2 38.2 57.4



#62
Isopropylbenzene
Concen: 0.37 ppbv
RT: 16.59 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion:105 Resp: 154109
Ion Ratio Lower Upper
105 100
120 24.8 21.0 31.4





#64

n-propylbenzene

Concen: 0.51 ppbv

RT: 17.56 min Scan# 2374

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

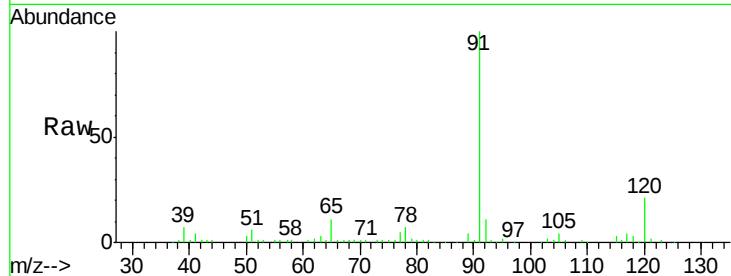
ClientSampleId :

Tgt Ion:120 Resp: 54400

Ion Ratio Lower Upper

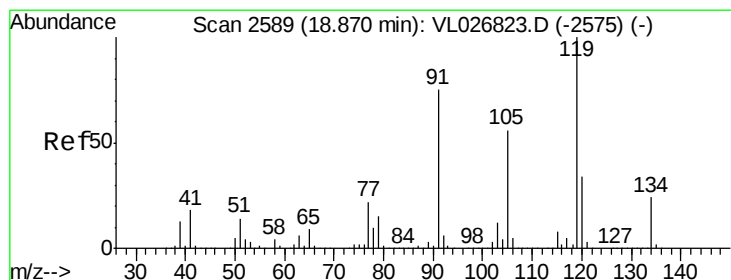
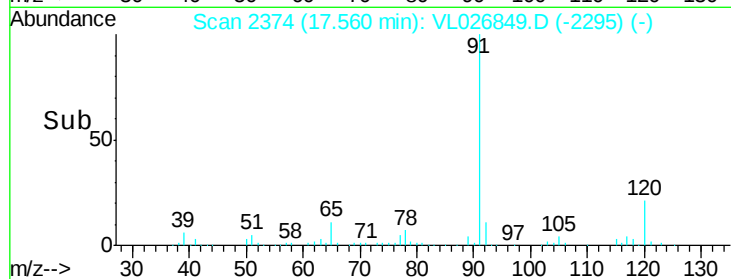
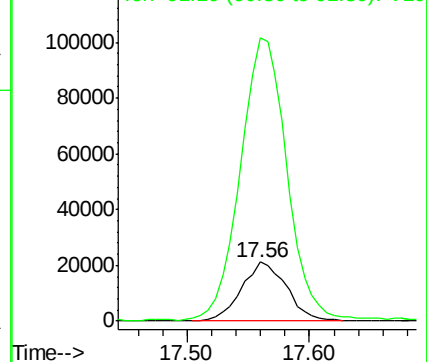
120 100

91 505.0 363.0 544.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.11 ppbv

RT: 18.85 min Scan# 2586

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

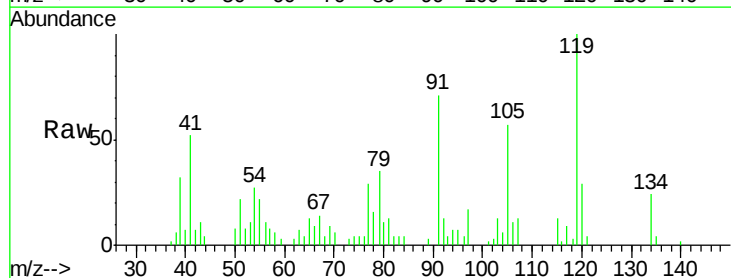
Tgt Ion:119 Resp: 43001

Ion Ratio Lower Upper

119 100

91 79.5 61.5 92.3

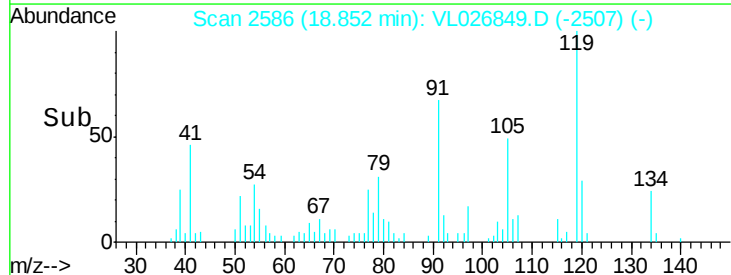
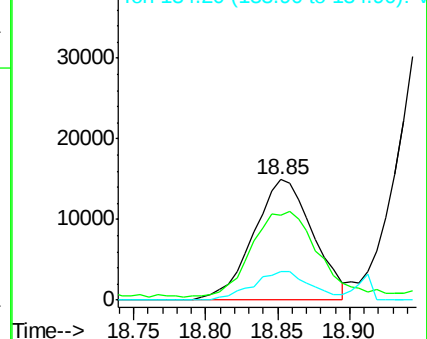
134 28.5 17.9 26.9#

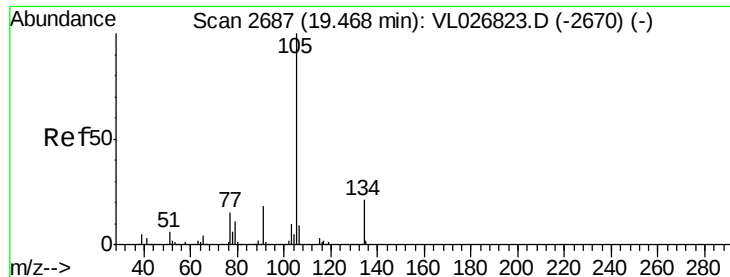


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.51 ppbv

RT: 19.45 min Scan# 2684

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

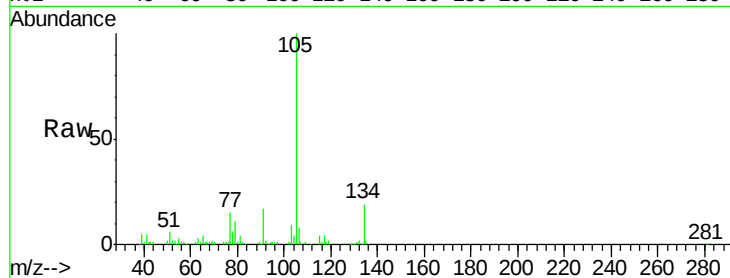
ClientSampleId :

Tgt Ion: 105 Resp: 255943

Ion Ratio Lower Upper

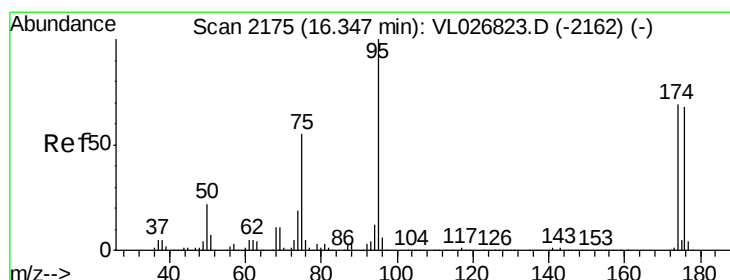
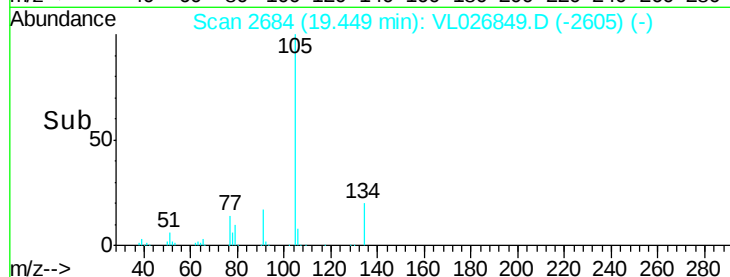
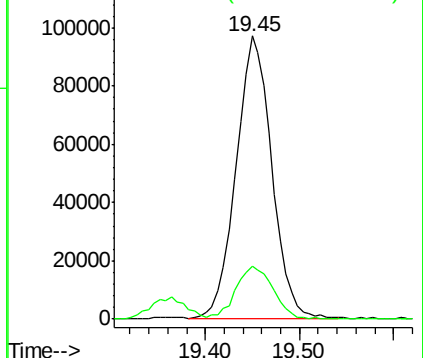
105 100

134 19.5 16.1 24.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.42 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

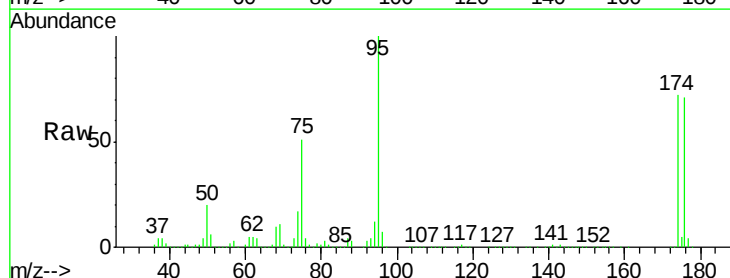
Tgt Ion: 95 Resp: 2536495

Ion Ratio Lower Upper

95 100

174 73.6 55.6 83.4

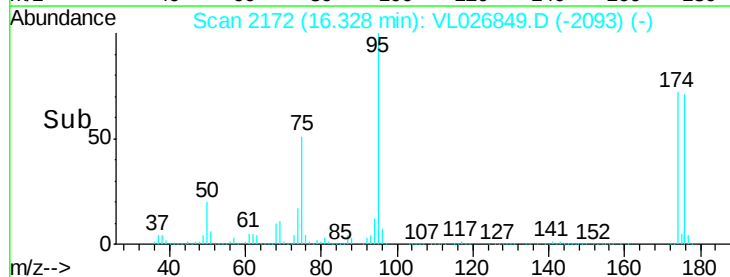
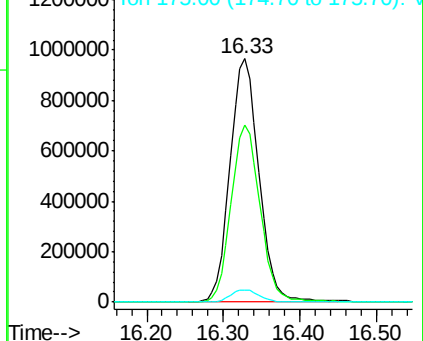
175 5.1 3.9 5.9

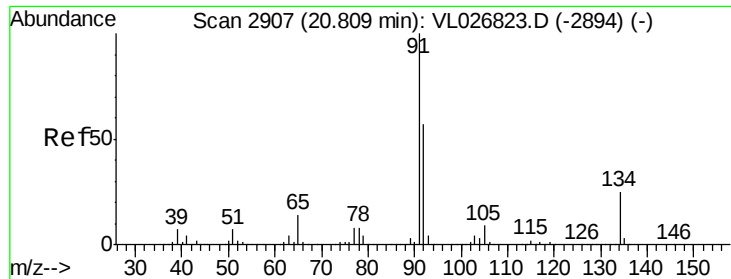


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

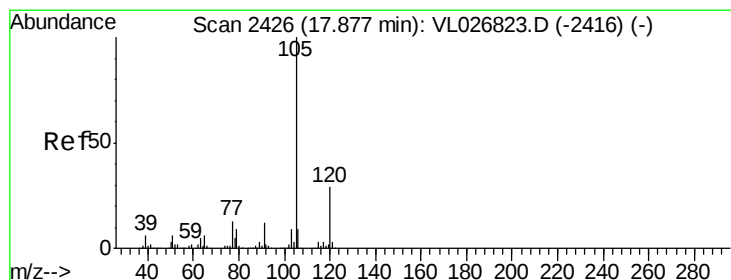
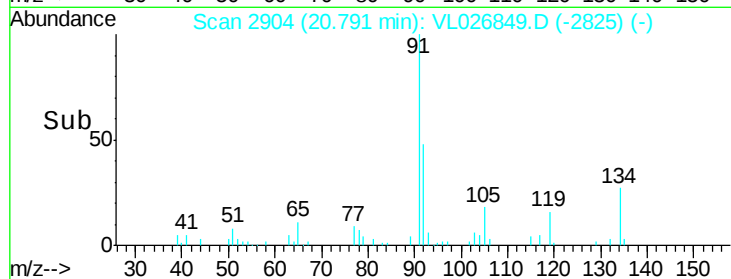
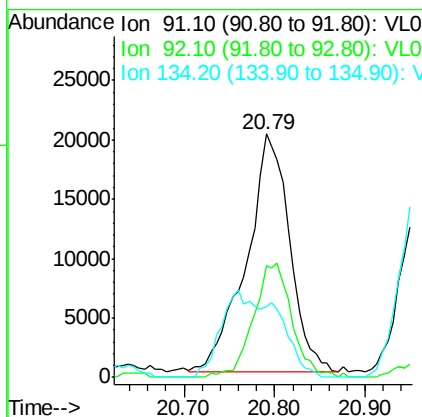
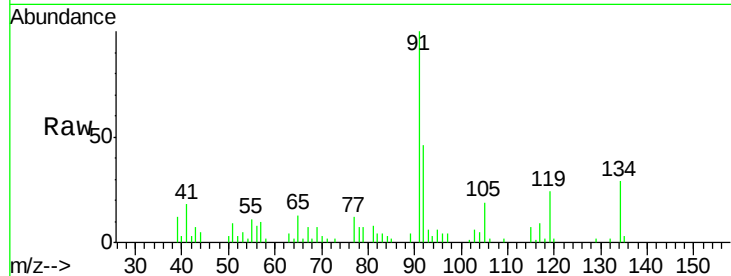




#70
n-Butylbenzene
Concen: 0.17 ppbv
RT: 20.79 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

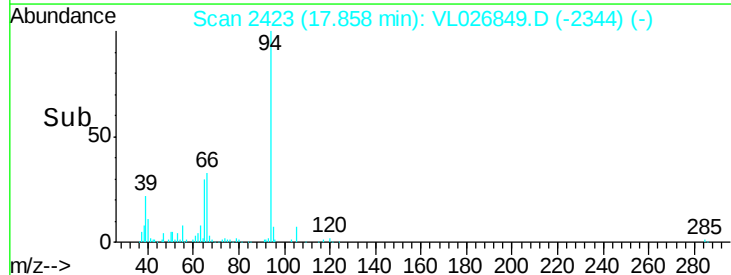
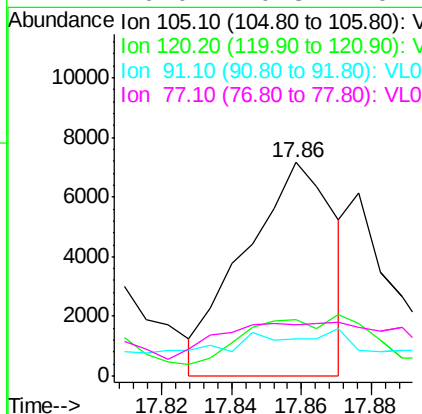
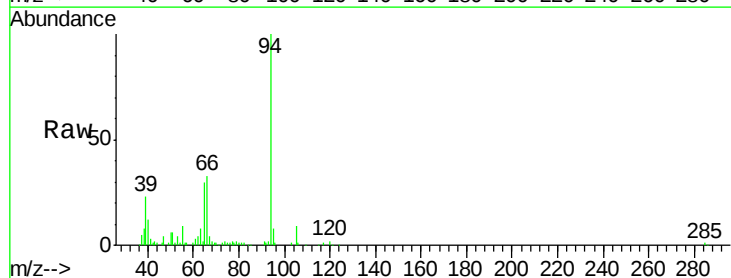
Instrument :
MSVOA_L
ClientSampleId :

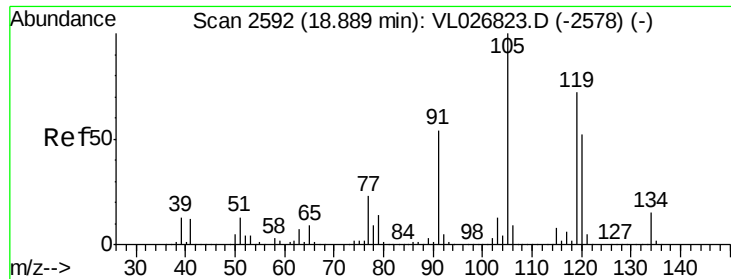
Tgt Ion: 91 Resp: 65659
Ion Ratio Lower Upper
91 100
92 43.0 44.2 66.4#
134 48.8 19.3 28.9#



#72
4-Ethyltoluene
Concen: 0.04 ppbv
RT: 17.86 min Scan# 2423
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 105 Resp: 12760
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.6#
91 0.0 10.2 15.4#
77 0.0 10.8 16.2#

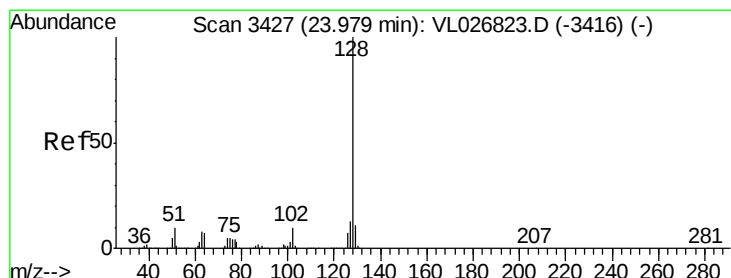
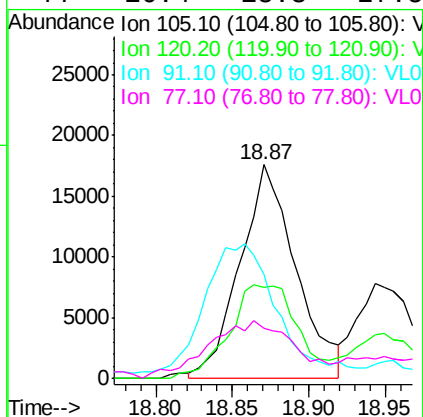
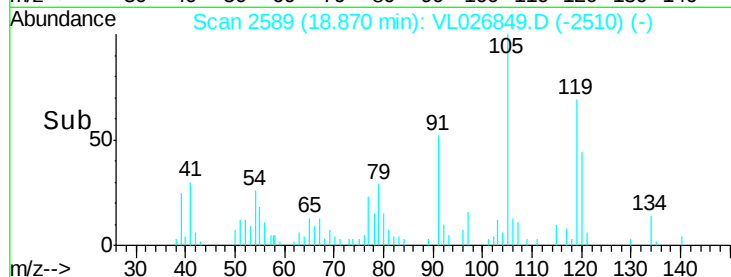
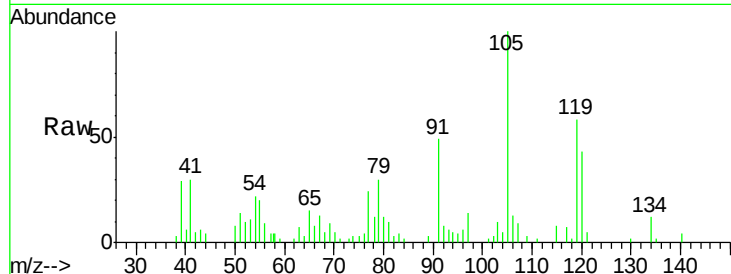




#74
 1,2,4-Trimethylbenzene
 Concen: 0.13 ppbv
 RT: 18.87 min Scan# 2589
 Delta R.T. -0.02 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

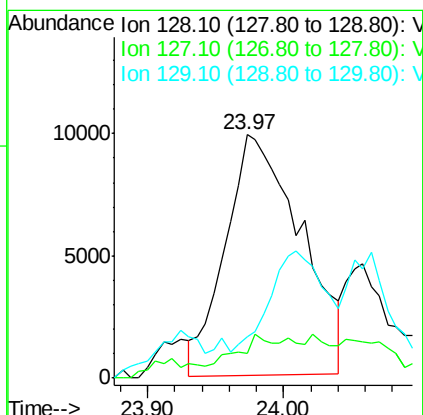
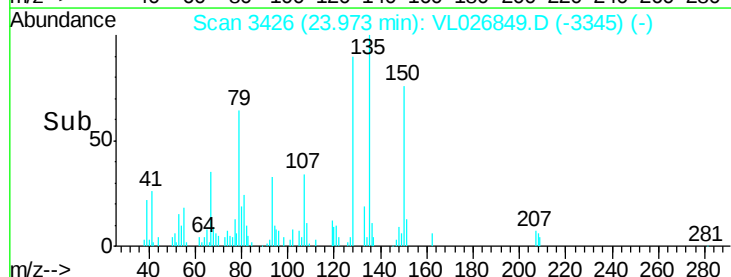
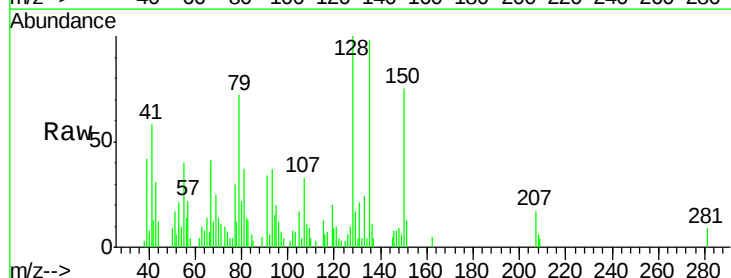
Instrument :
 MSVOA_L
 ClientSampleId :

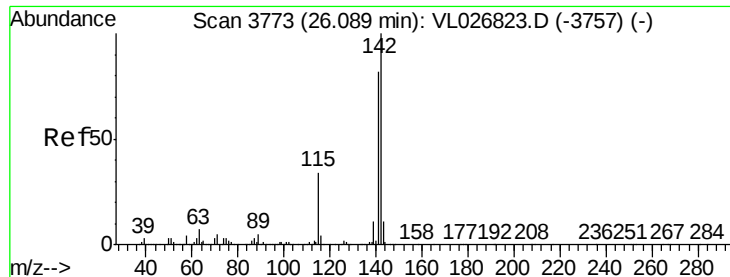
Tgt Ion:105 Resp: 44684
 Ion Ratio Lower Upper
 105 100
 120 40.4 41.3 61.9#
 91 42.0 43.3 64.9#
 77 16.4 18.3 27.5#



#79
 Naphthalene
 Concen: 0.22 ppbv
 RT: 23.97 min Scan# 3426
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Tgt Ion:128 Resp: 37951
 Ion Ratio Lower Upper
 128 100
 127 4.6 10.0 15.0#
 129 0.2 8.7 13.1#





#80
 Naphthalene, 2-methyl-
 Concen: 0.47 ppbv
 RT: 26.09 min Scan# 3773
 Delta R.T. -0.00 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 142 Resp: 32626
 Ion Ratio Lower Upper
 142 100
 141 63.0 67.2 100.8#
 115 58.1 27.5 41.3#

