

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

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 13 03:01:00 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	813781	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	8.35	114	2469778	10.00	ppbv	0.04
55) Chlorobenzene-d5	13.77	117	3014019	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.32	95	2403822	10.01	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.66	85	108403	0.50	ppbv	100
3) Chlorodifluoromethane	3.59	51	312077	2.88	ppbv #	81
4) Chloromethane	3.77	50	26850	0.51	ppbv	98
7) Chloroethane	4.26	64	794	0.03	ppbv #	44
9) Propene	3.85	41	4481552	115.05	ppbv	87
10) Heptane	9.38	43	958071	6.60	ppbv	99
11) Trichlorofluoromethane	4.72	101	53432	0.24	ppbv	86
13) Ethanol	4.35	45	123212	16.65	ppbv	98
15) Acetone	4.62	43	3822002	28.55	ppbv	92
16) 1,3-Butadiene	3.97	39	302976	5.67	ppbv #	45
17) tert-Butyl alcohol	4.93	59	696970	6.90	ppbv #	82
19) Isopropyl Alcohol	4.79	45	64053	1.16	ppbv #	96
20) Methylene Chloride	5.18	84	47841	0.87	ppbv	97
21) Allyl Chloride	5.19	41	72500	0.88	ppbv #	43
23) Vinyl Acetate	5.98	43	122909	0.60	ppbv #	1
25) Ethyl Acetate	6.68	43	256909	1.24	ppbv #	84
26) Hexane	6.68	57	352126	3.30	ppbv #	52
27) Carbon Disulfide	5.42	76	5269	0.03	ppbv #	1
30) Cyclohexane	8.31	84	104117	0.99	ppbv #	68
34) 2-Butanone	6.23	43	149903	1.14	ppbv	93
35) Carbon Tetrachloride	8.19	117	15699	0.07	ppbv	92
36) Benzene	8.05	78	867518	3.41	ppbv	100
38) Trichloroethene	9.09	130	354685	3.13	ppbv	97
39) 1,2-Dichloropropane	8.70	63	8058	0.09	ppbv #	1
41) Tetrahydrofuran	7.18	42	9274	0.14	ppbv #	79
42) Bromodichloromethane	9.04	83	35289	0.16	ppbv #	24
43) Methyl Methacrylate	9.31	69	8057	0.09	ppbv #	1
44) 2,2,4-Trimethylpentane	9.12	57	604915	1.47	ppbv #	76
50) 4-Methyl-2-Pentanone	10.13	43	186748	1.01	ppbv	95
51) 2-Hexanone	11.68	43	18402	0.11	ppbv #	77
52) Tetrachloroethene	12.82	164	42698	0.34	ppbv	96
53) Toluene	11.27	91	2914499	8.14	ppbv	100
57) Chlorobenzene	13.87	112	43249	0.14	ppbv #	34
58) Ethyl Benzene	14.44	91	1083887	2.01	ppbv	99
59) m/p-Xylene	14.72	91	3257492	7.34	ppbv	100
60) o-Xylene	15.52	91	1378330	2.87	ppbv	99
61) Styrene	15.35	104	123631	0.66	ppbv	99
62) Isopropylbenzene	16.58	105	156157	0.25	ppbv	99
64) n-propylbenzene	17.55	120	137902	0.81	ppbv	94
65) tert-Butylbenzene	18.86	119	315061	0.54	ppbv #	74
66) Benzyl Chloride	19.35	91	65382	0.31	ppbv #	85

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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

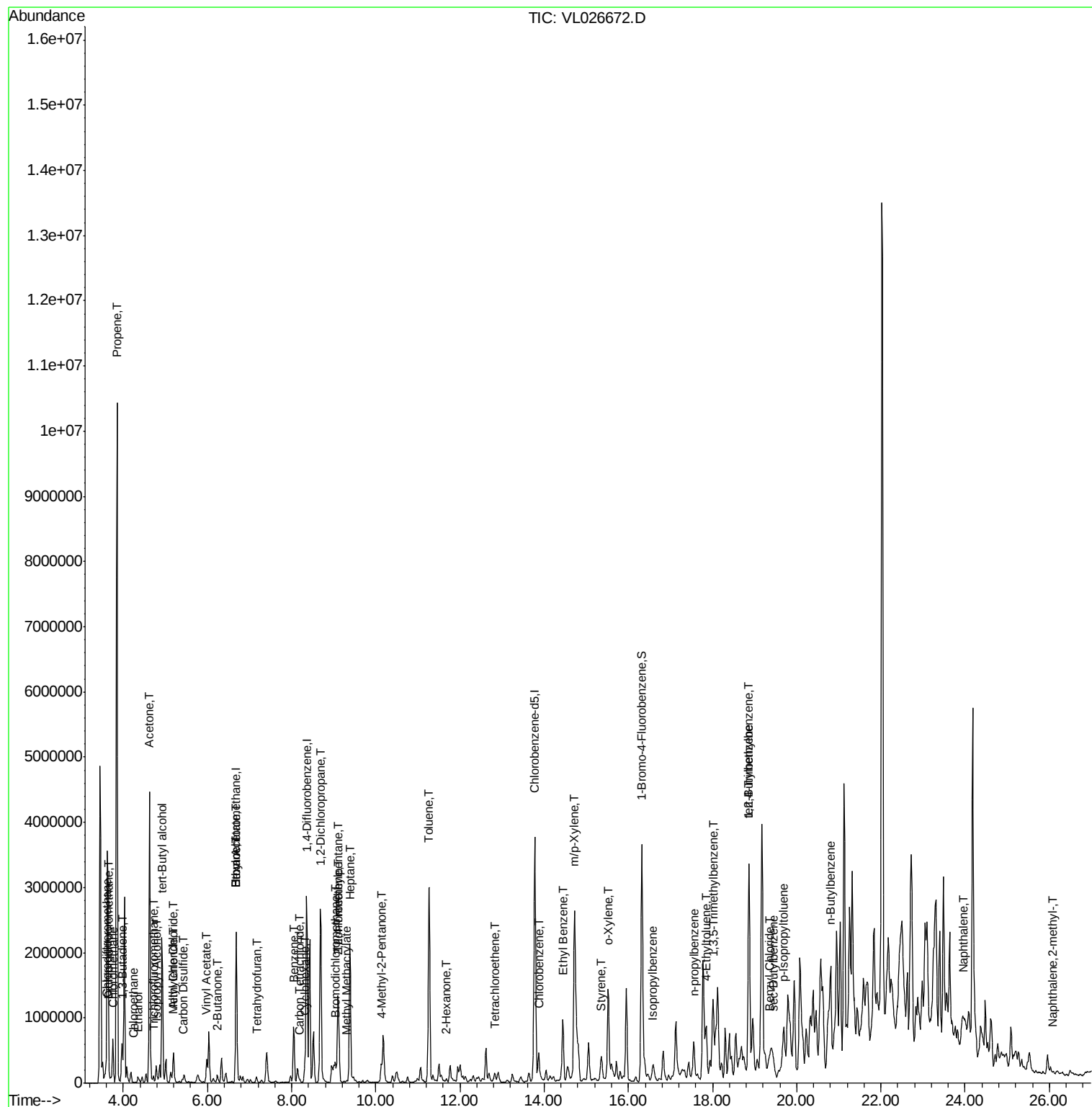
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) sec-Butylbenzene	19.44	105	210613	0.24	ppbv	99
69) p-Isopropyltoluene	19.69	119	234722	0.36	ppbv	97
70) n-Butylbenzene	20.79	91	518447	0.75	ppbv #	51
72) 4-Ethyltoluene	17.85	105	762505	1.42	ppbv	98
73) 1,3,5-Trimethylbenzene	18.02	105	736893	1.45	ppbv	97
74) 1,2,4-Trimethylbenzene	18.86	105	2780030	5.15	ppbv #	78
79) Naphthalene	23.96	128	314558	0.86	ppbv	97
80) Naphthalene,2-methyl-	26.08	142	17646	0.31	ppbv #	30

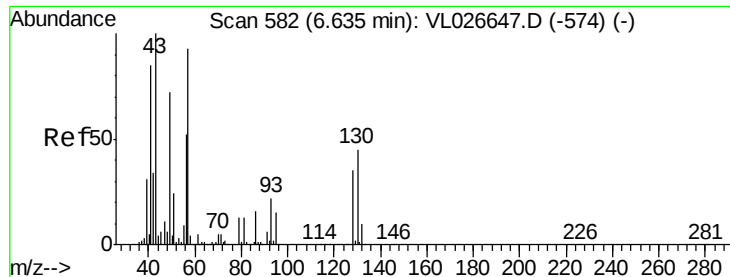
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 589

Delta R.T. 0.04 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

ClientSampleId :

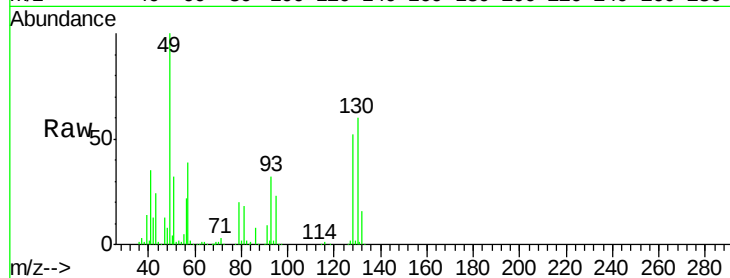
Tot Ion: 49 Resp: 813781

Ion Ratio Lower Upper

49 100

128 55.0 25.9 77.7

130 69.1 33.6 100.8



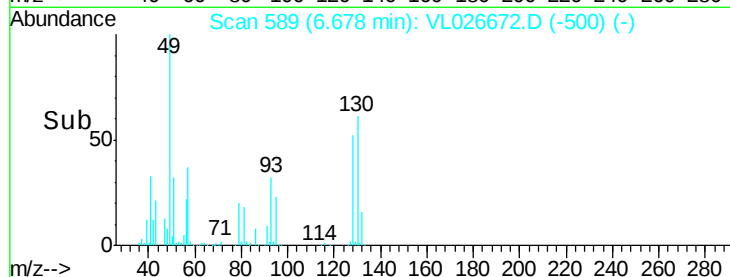
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

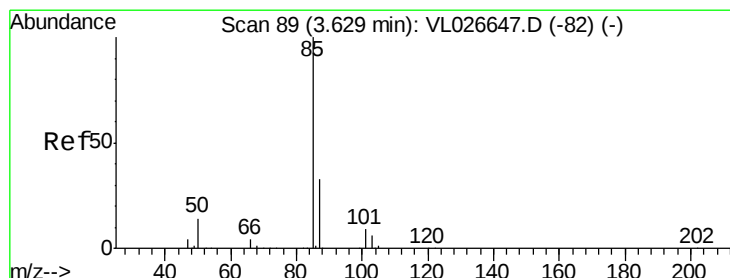
Ion 130.00 (129.70 to 130.70): VL0

6.68

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.50 ppbv

RT: 3.66 min Scan# 94

Delta R.T. 0.03 min

Lab File: VL026672.D

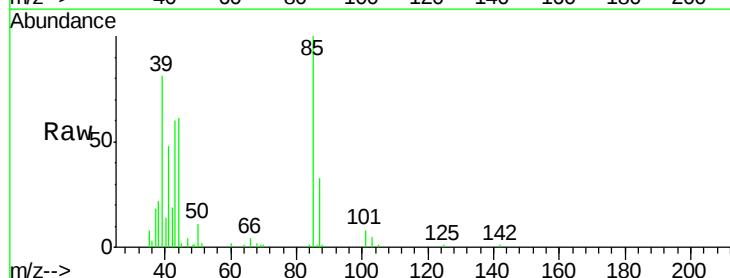
Acq: 12 Jan 2016 13:24

Tgt Ion: 85 Resp: 108403

Ion Ratio Lower Upper

85 100

87 33.2 26.4 39.6

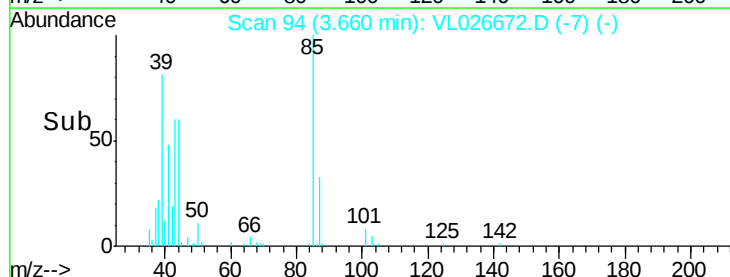


Abundance Ion 85.00 (84.70 to 85.70): VL0

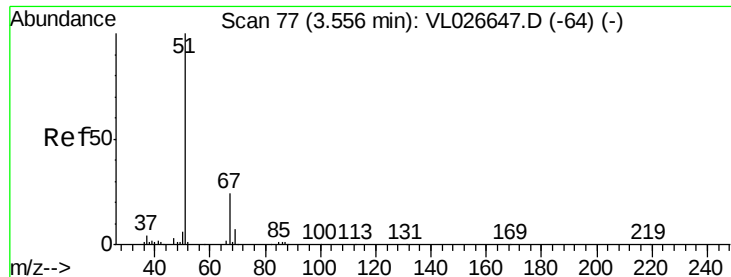
Ion 87.00 (86.70 to 87.70): VL0

3.66

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 2.88 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.04 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

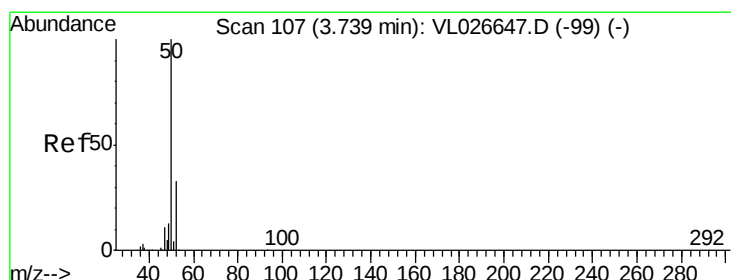
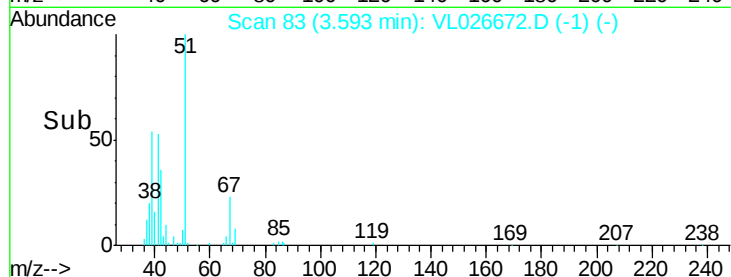
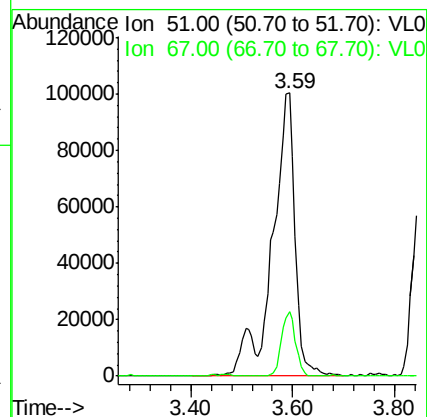
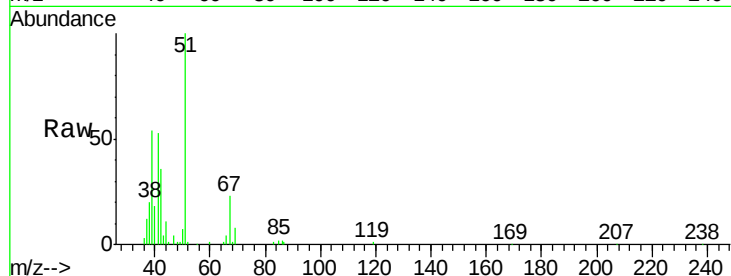
ClientSampleId :

Tot Ion: 51 Resp: 312077

Ion Ratio Lower Upper

51 100

67 14.1 18.6 28.0#



#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.77 min Scan# 112

Delta R.T. 0.03 min

Lab File: VL026672.D

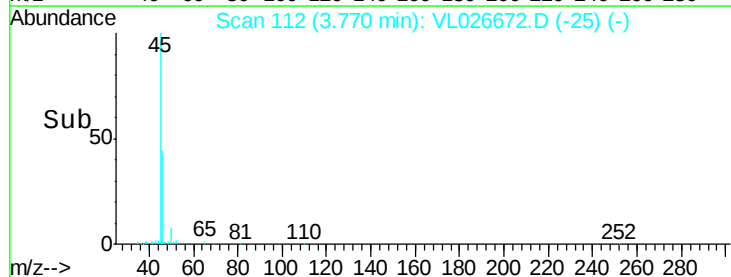
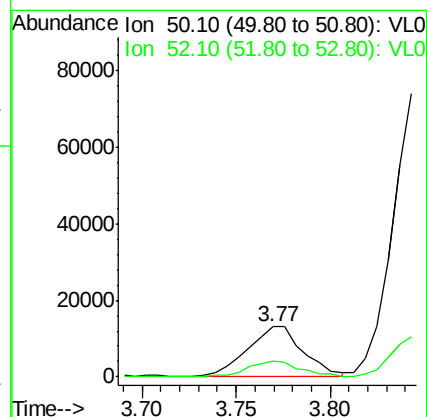
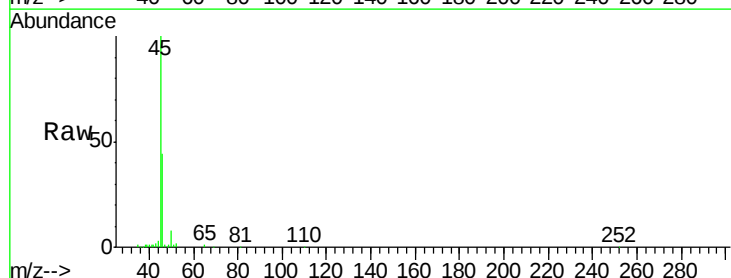
Acq: 12 Jan 2016 13:24

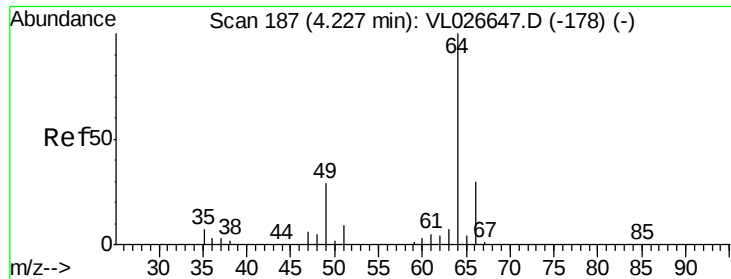
Tgt Ion: 50 Resp: 26850

Ion Ratio Lower Upper

50 100

52 32.4 26.7 40.1





#7

Chloroethane

Concen: 0.03 ppbv

RT: 4.26 min Scan# 192

Delta R.T. 0.03 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

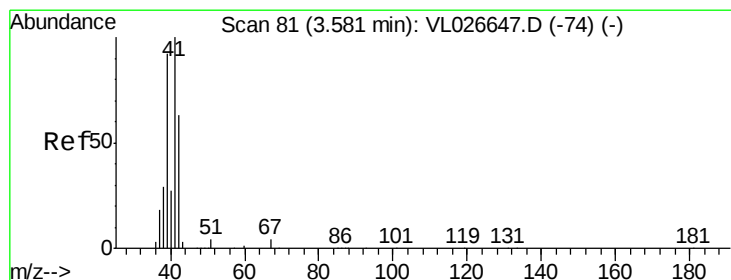
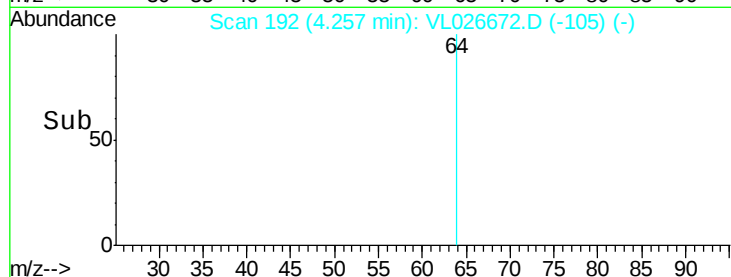
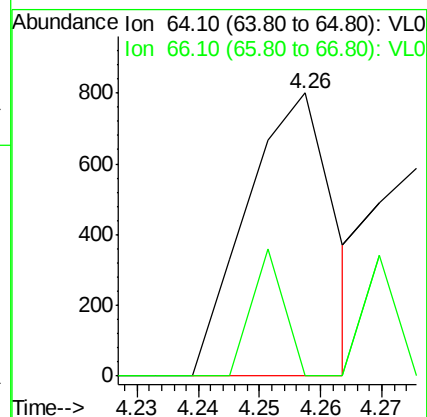
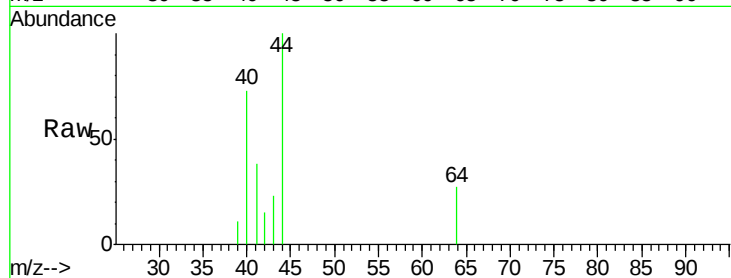
ClientSampleId :

Tot Ion: 64 Resp: 794

Ion Ratio Lower Upper

64 100

66 0.0 24.3 36.5#



#9

Propene

Concen: 115.05 ppbv

RT: 3.85 min Scan# 125

Delta R.T. 0.27 min

Lab File: VL026672.D

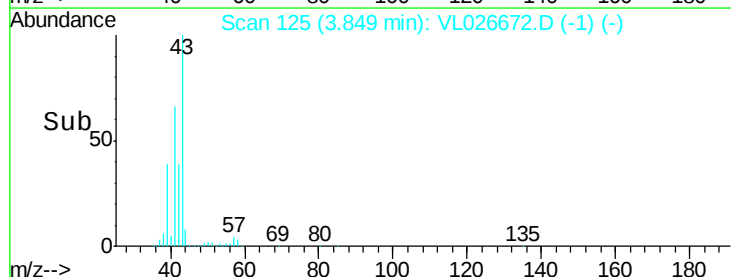
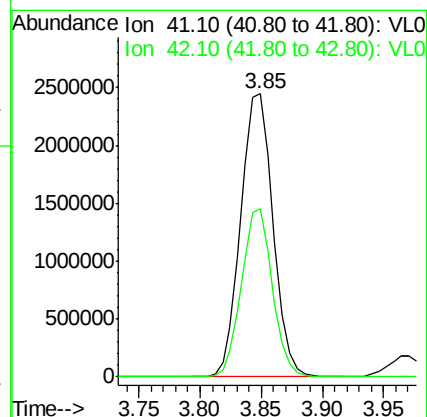
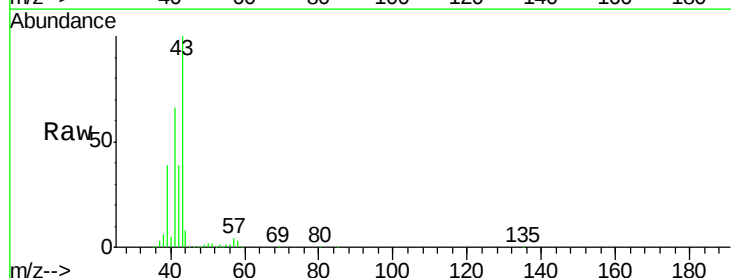
Acq: 12 Jan 2016 13:24

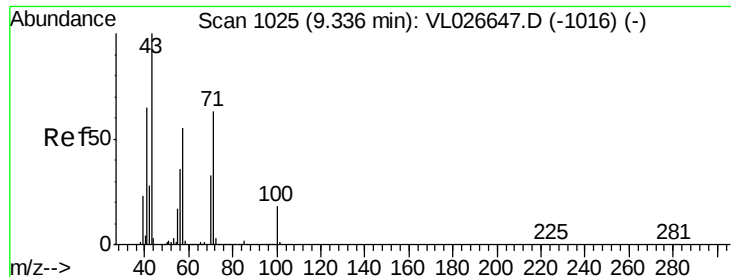
Tgt Ion: 41 Resp: 4481552

Ion Ratio Lower Upper

41 100

42 56.9 53.6 80.4





#10

Heptane

Concen: 6.60 ppbv

RT: 9.38 min Scan# 1033

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

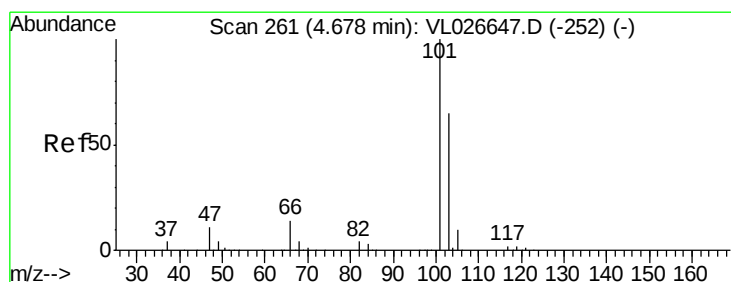
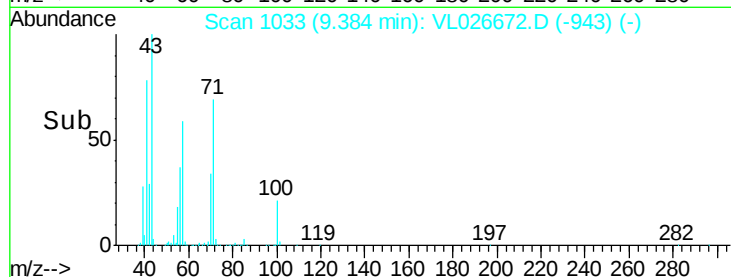
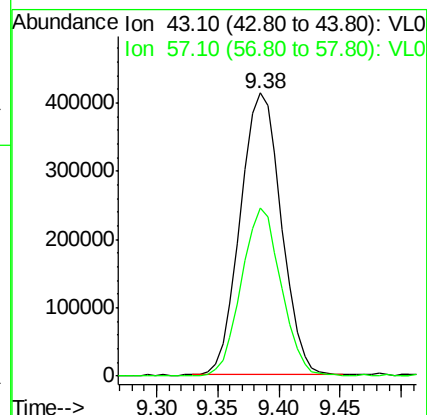
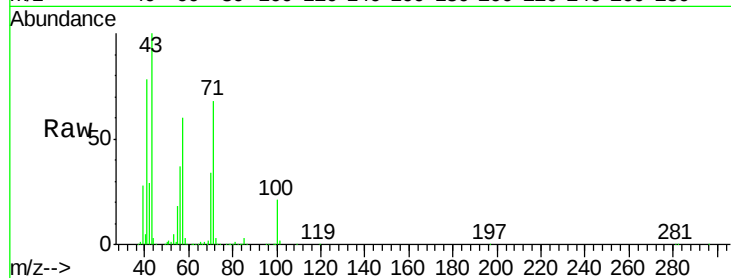
ClientSampleId :

Tot Ion: 43 Resp: 958071

Ion Ratio Lower Upper

43 100

57 58.2 45.8 68.6



#11

Trichlorofluoromethane

Concen: 0.24 ppbv

RT: 4.72 min Scan# 268

Delta R.T. 0.04 min

Lab File: VL026672.D

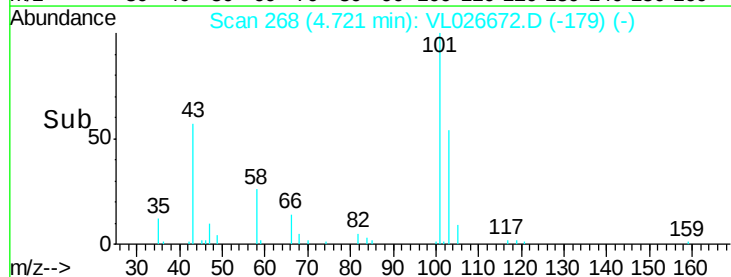
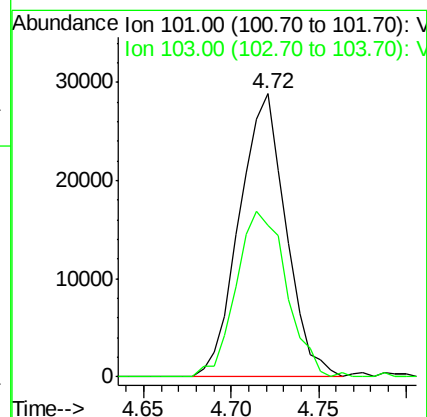
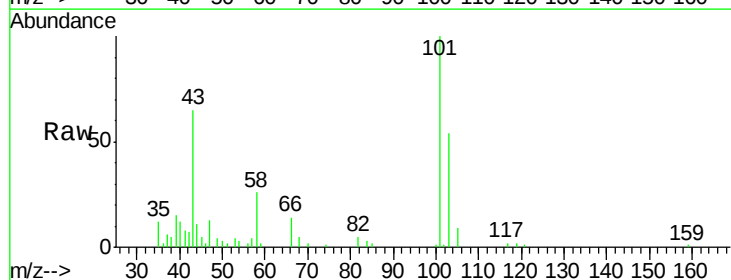
Acq: 12 Jan 2016 13:24

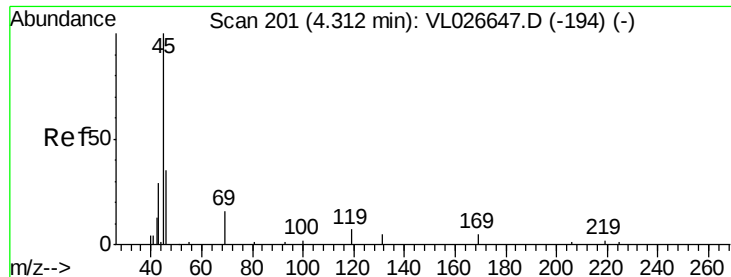
Tgt Ion: 101 Resp: 53432

Ion Ratio Lower Upper

101 100

103 53.6 51.7 77.5

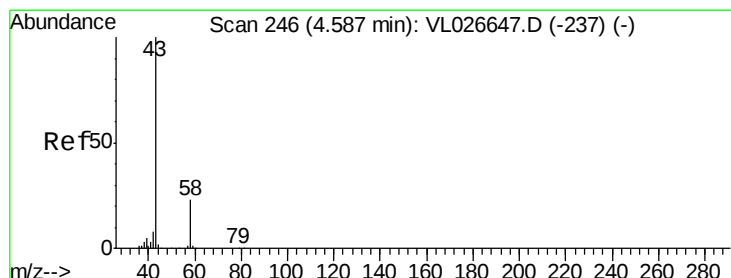
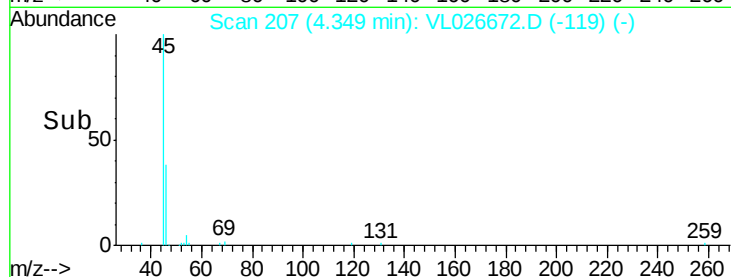
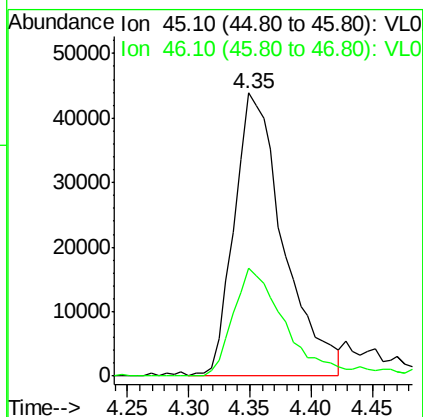
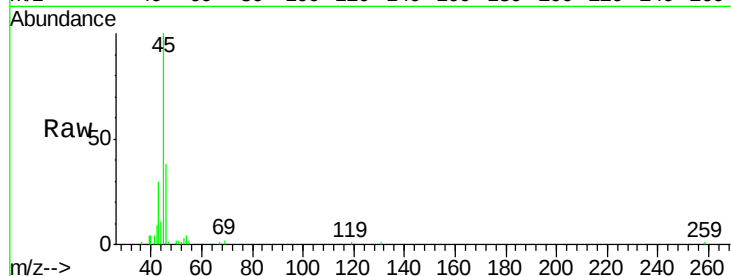




#13
Ethanol
Concen: 16.65 ppbv
RT: 4.35 min Scan# 207
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

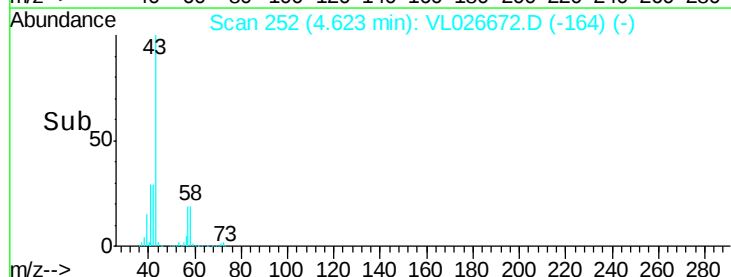
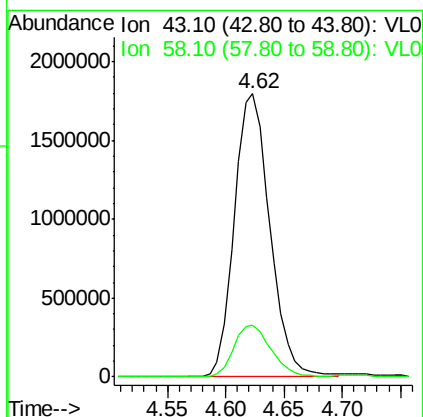
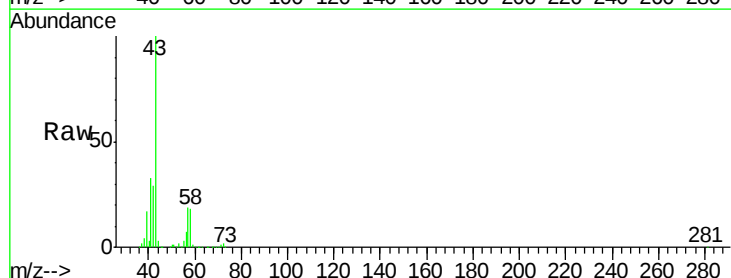
Instrument :
MSVOA_L
ClientSampleId :

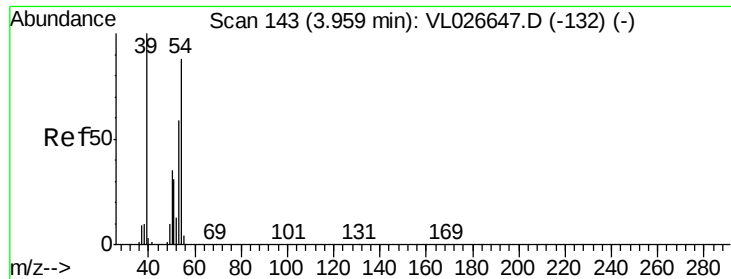
Tot Ion: 45 Resp: 123212
Ion Ratio Lower Upper
45 100
46 42.8 16.7 66.7



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

Tgt Ion: 43 Resp: 3822002
Ion Ratio Lower Upper
43 100
58 20.1 19.2 28.8





#16

1,3-Butadiene

Concen: 5.67 ppbv

RT: 3.97 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

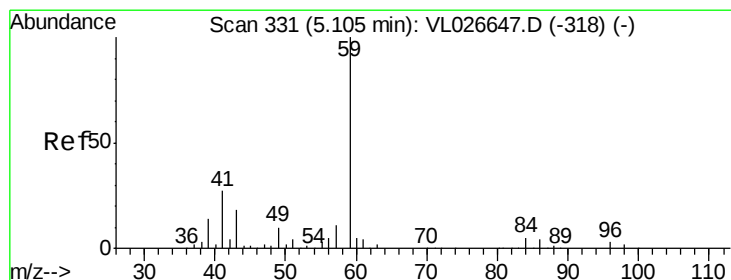
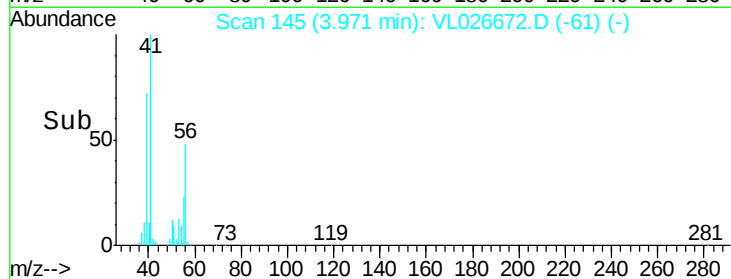
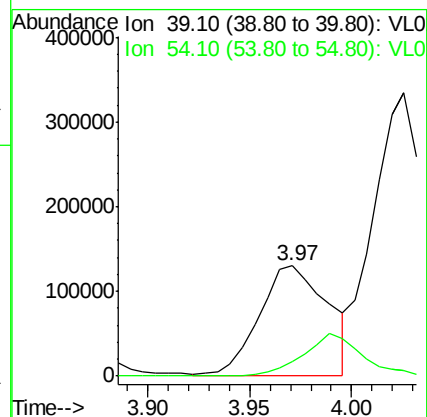
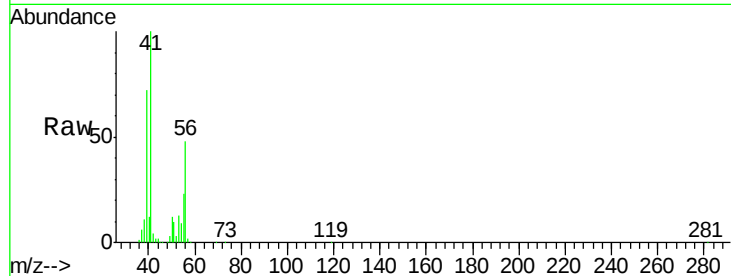
ClientSampled :

Tot Ion: 39 Resp: 302976

Ion Ratio Lower Upper

39 100

54 33.9 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 6.90 ppbv

RT: 4.93 min Scan# 302

Delta R.T. -0.18 min

Lab File: VL026672.D

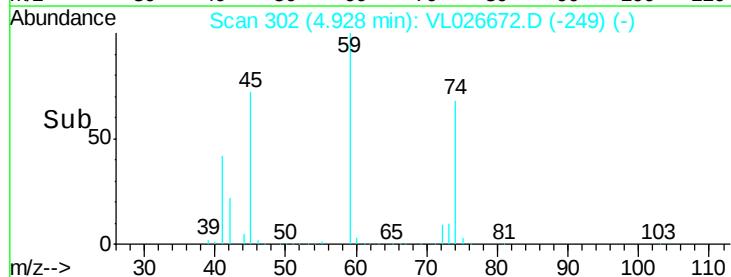
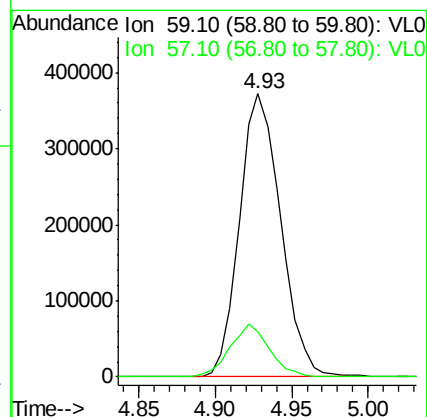
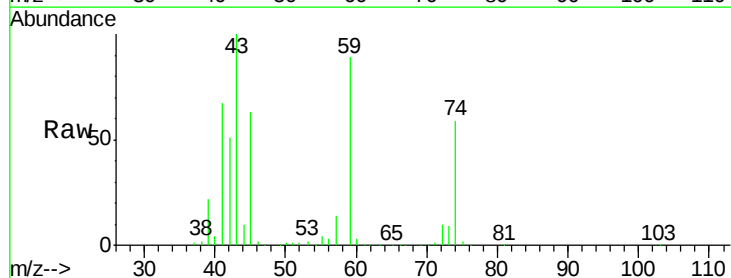
Acq: 12 Jan 2016 13:24

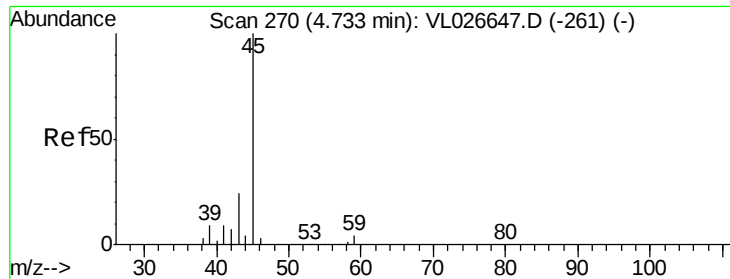
Tgt Ion: 59 Resp: 696970

Ion Ratio Lower Upper

59 100

57 18.0 9.0 13.6#





#19

Isopropyl Alcohol

Concen: 1.16 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.06 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

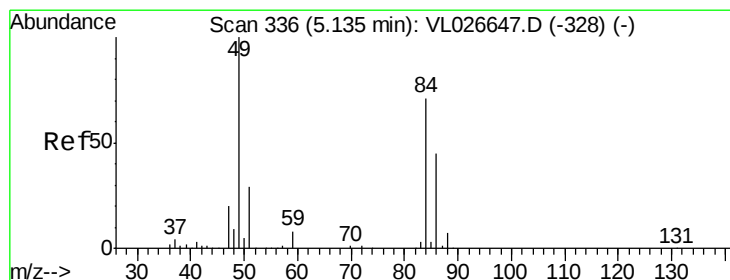
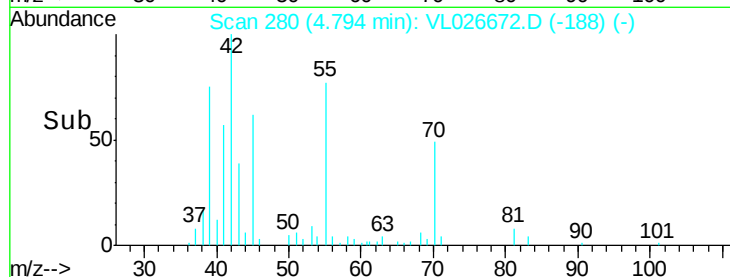
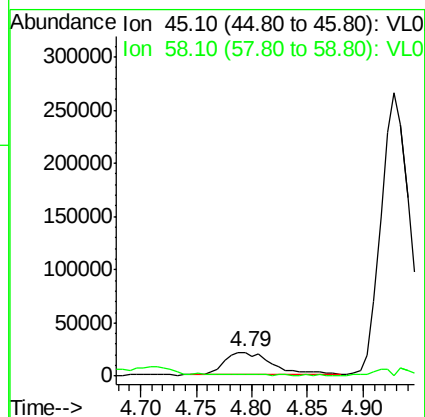
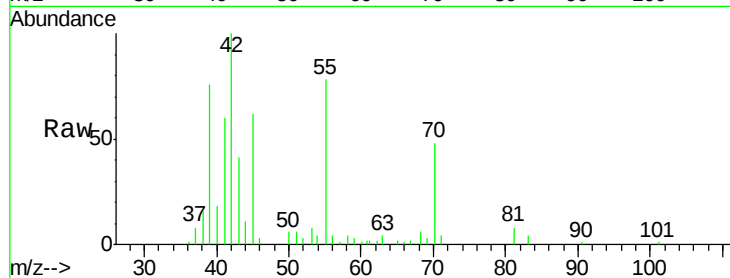
ClientSampleId :

Tot Ion: 45 Resp: 64053

Ion Ratio Lower Upper

45 100

58 0.0 1.3 1.9#



#20

Methylene Chloride

Concen: 0.87 ppbv

RT: 5.18 min Scan# 343

Delta R.T. 0.04 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Tgt Ion: 84 Resp: 47841

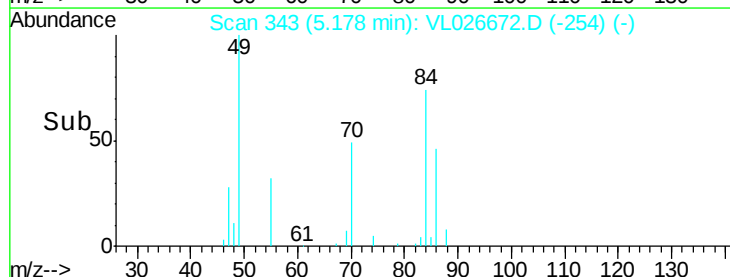
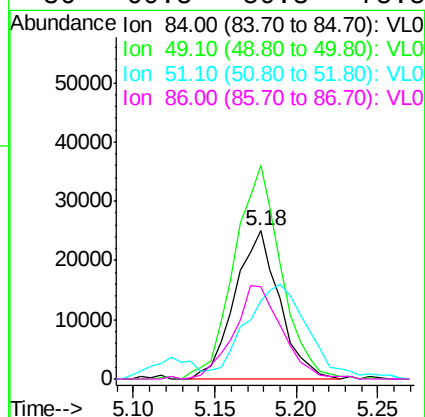
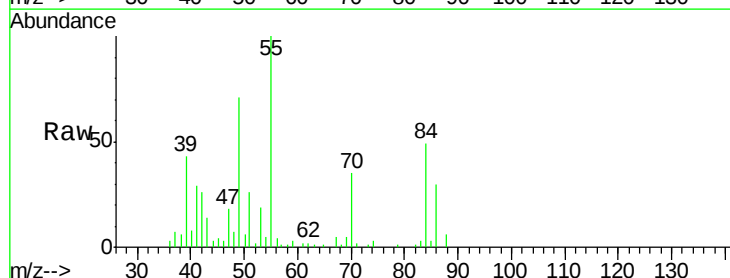
Ion Ratio Lower Upper

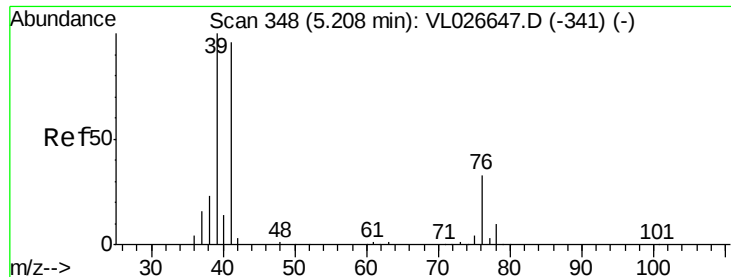
84 100

49 142.3 112.3 168.5

51 45.5 32.5 48.7

86 60.5 50.3 75.5

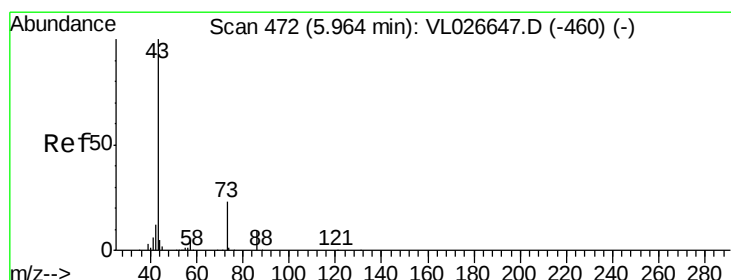
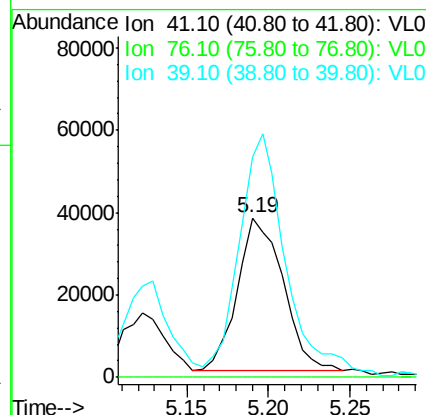
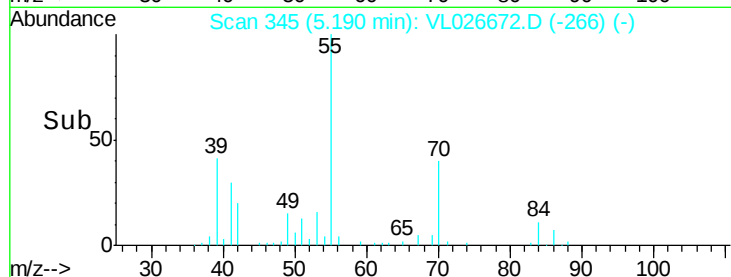
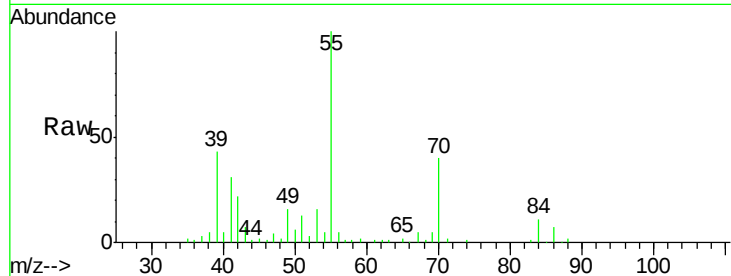




#21
Allvl Chloride
Concen: 0.88 ppbv
RT: 5.19 min Scan# 345
Delta R.T. -0.02 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

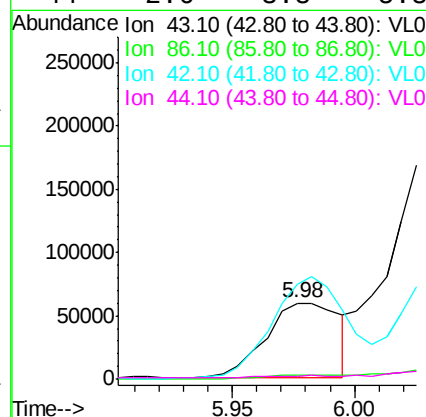
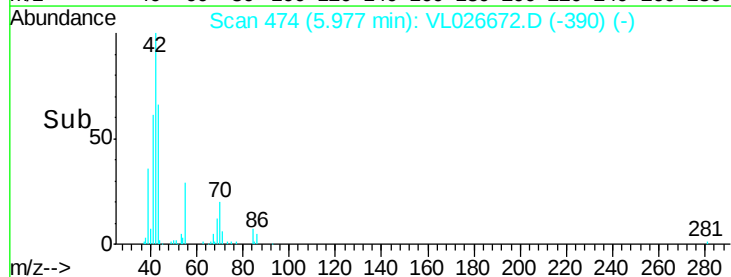
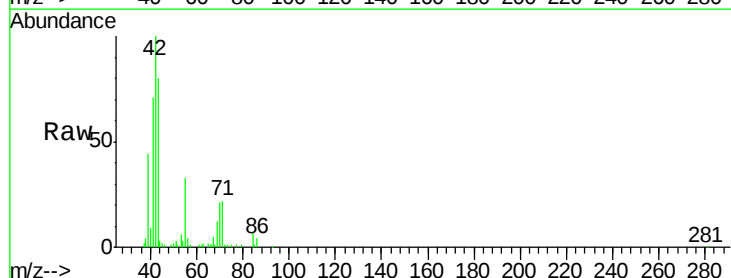
Instrument :
MSVOA_L
ClientSampleId :

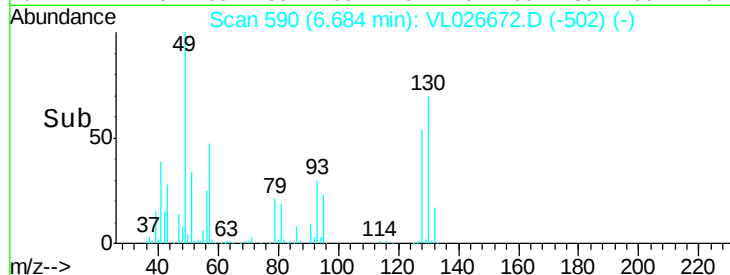
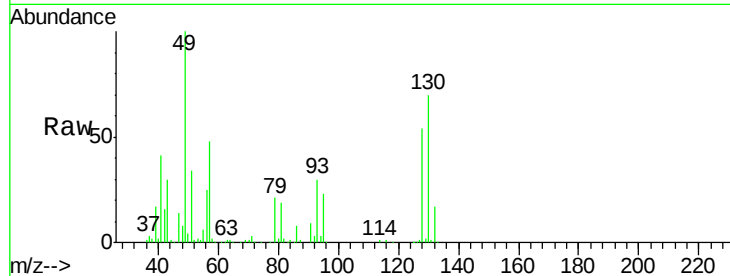
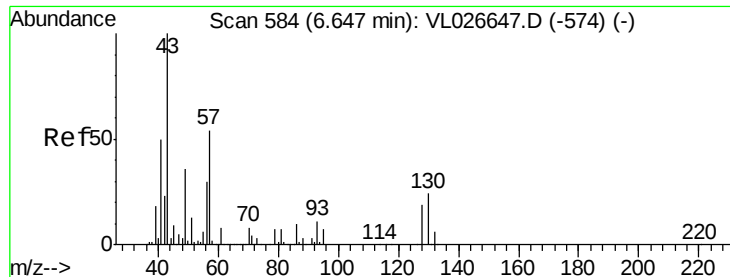
Tot Ion: 41 Resp: 72500
Ion Ratio Lower Upper
41 100
76 0.0 27.5 41.3#
39 161.4 83.0 124.6#



#23
Vinyl Acetate
Concen: 0.60 ppbv
RT: 5.98 min Scan# 474
Delta R.T. 0.01 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 43 Resp: 122909
Ion Ratio Lower Upper
43 100
86 5.7 7.4 11.0#
42 126.3 9.2 13.8#
44 2.6 3.8 5.8#

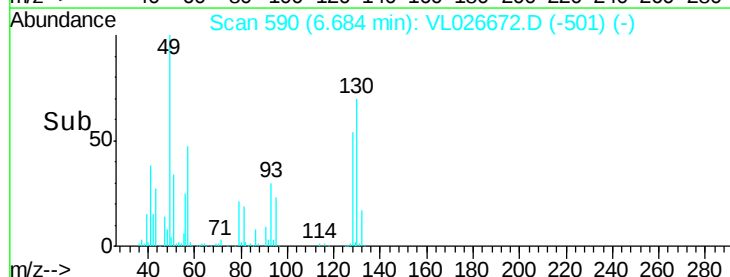
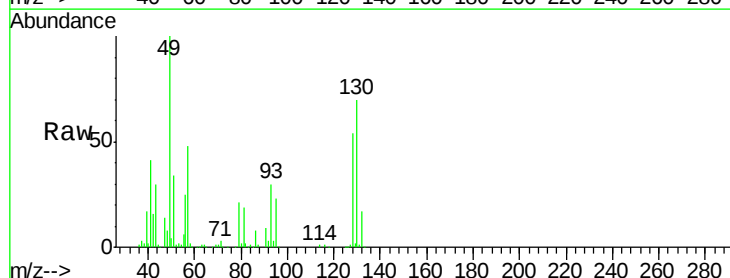
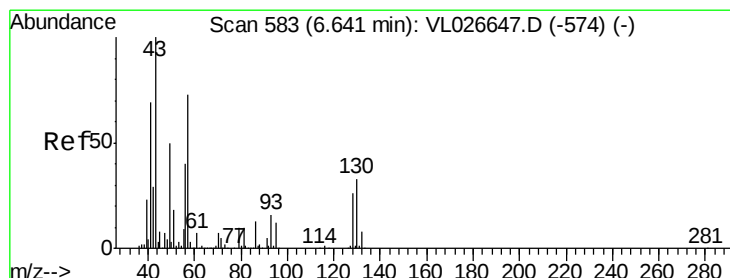
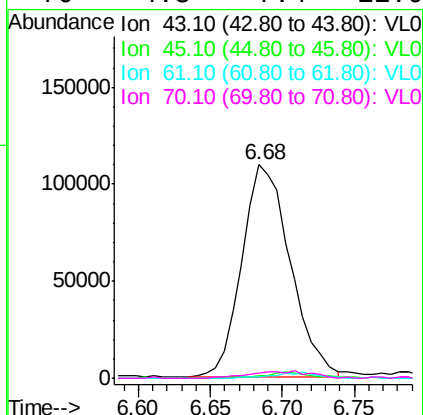




#25
Ethyl Acetate
Concen: 1.24 ppbv
RT: 6.68 min Scan# 590
Delta R.T. 0.04 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

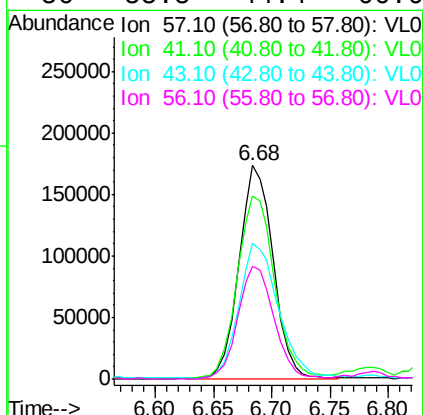
Instrument :
MSVOA_L
ClientSampleId :

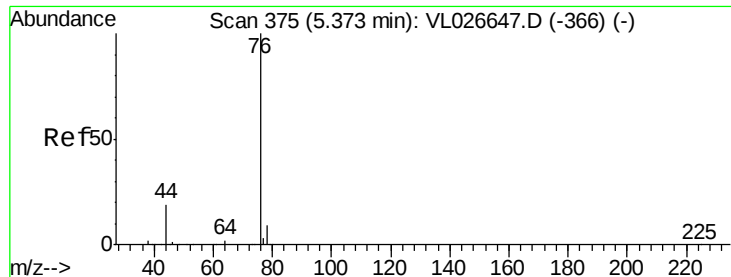
Tot Ion:	43	Resp:	256909
Ion	Ratio	Lower	Upper
43	100		
45	3.1	7.5	11.3#
61	2.5	7.3	10.9#
70	4.3	7.4	11.0#



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

Tgt Ion:	57	Resp:	352126
Ion	Ratio	Lower	Upper
57	100		
41	94.7	74.8	112.2
43	74.6	161.5	242.3#
56	55.5	44.4	66.6





#27

Carbon Disulfide

Concen: 0.03 ppbv

RT: 5.42 min Scan# 382

Delta R.T. 0.04 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

ClientSampleId :

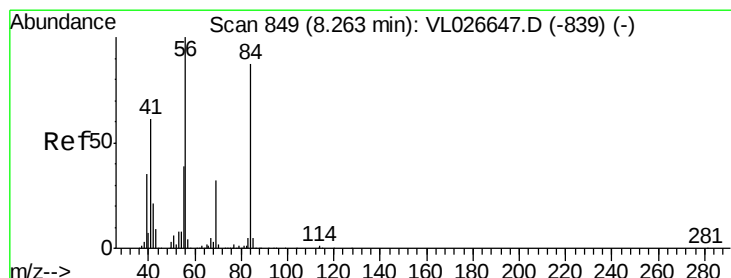
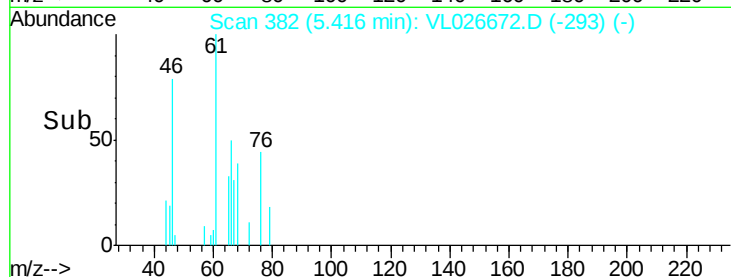
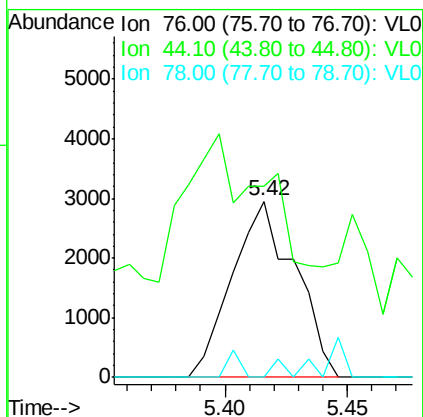
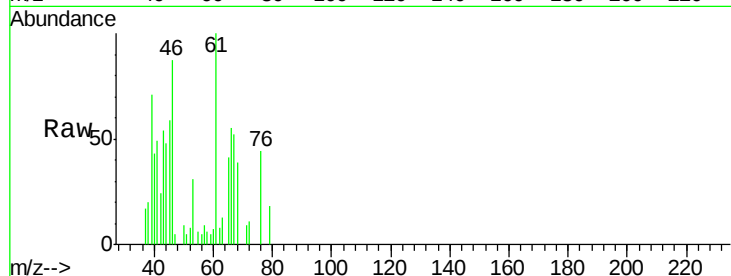
Tot Ion: 76 Resp: 5269

Ion Ratio Lower Upper

76 100

44 247.5 15.9 23.9#

78 12.2 7.6 11.4#



#30

Cyclohexane

Concen: 0.99 ppbv

RT: 8.31 min Scan# 857

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

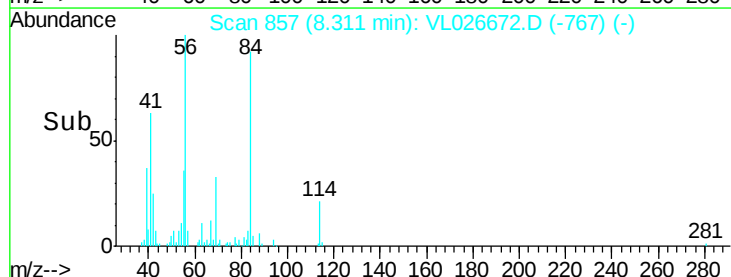
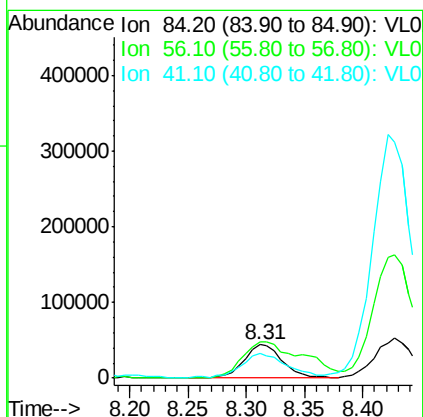
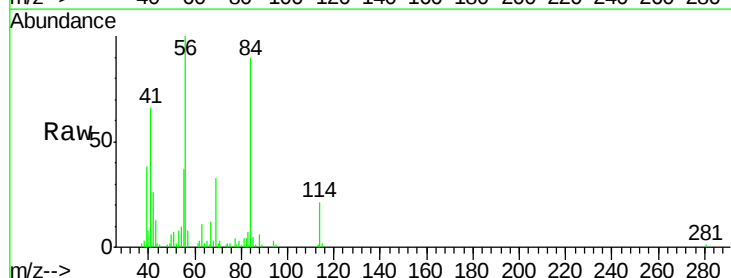
Tgt Ion: 84 Resp: 104117

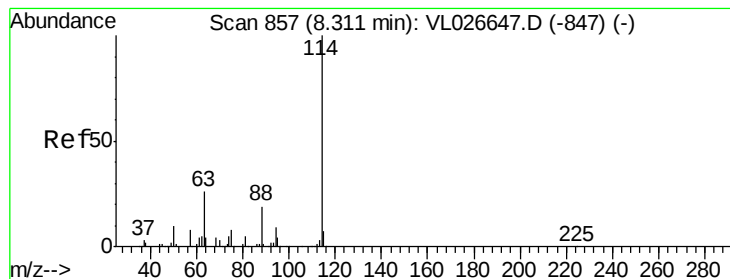
Ion Ratio Lower Upper

84 100

56 167.6 95.9 143.9#

41 79.1 54.8 82.2





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.35 min Scan# 864

Delta R.T. 0.04 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

ClientSampleId :

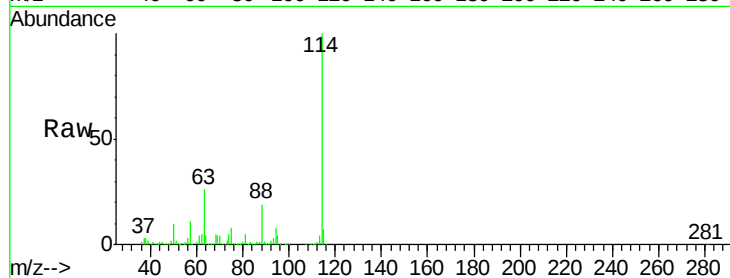
Tot Ion:114 Resp: 2469778

Ion Ratio Lower Upper

114 100

63 26.4 21.7 32.5

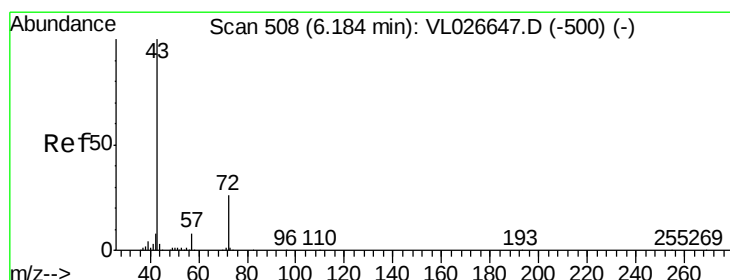
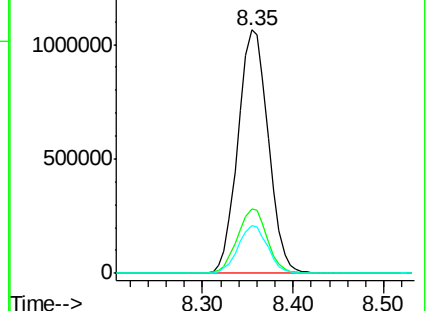
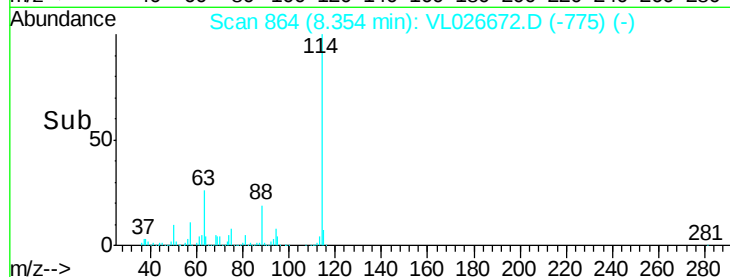
88 19.2 15.2 22.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.14 ppbv

RT: 6.23 min Scan# 516

Delta R.T. 0.05 min

Lab File: VL026672.D

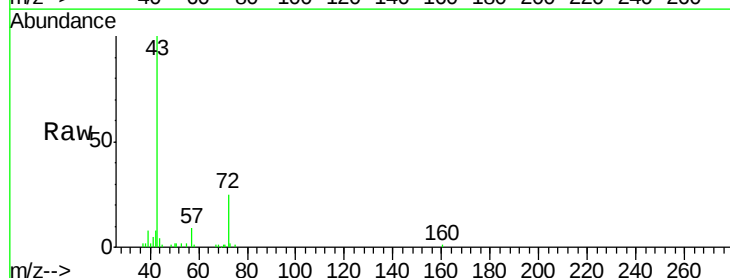
Acq: 12 Jan 2016 13:24

Tgt Ion: 43 Resp: 149903

Ion Ratio Lower Upper

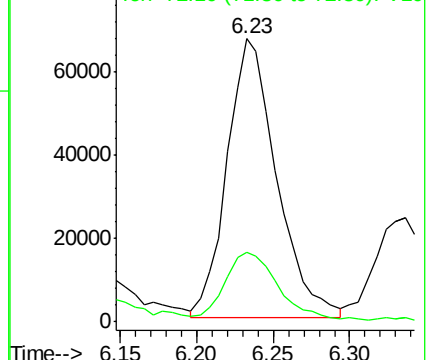
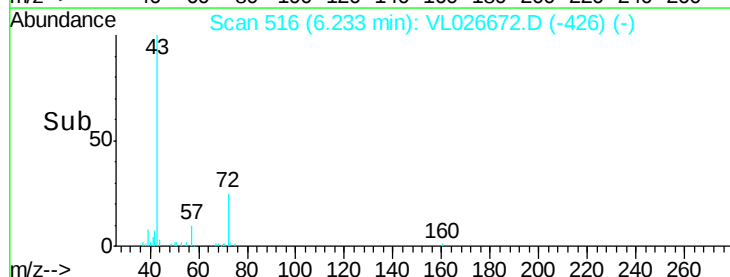
43 100

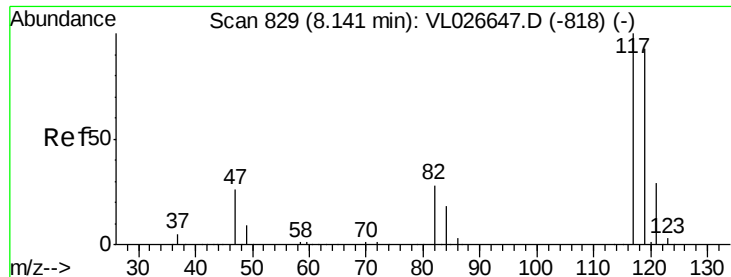
72 29.7 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.07 ppbv

RT: 8.19 min Scan# 837

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

ClientSampled :

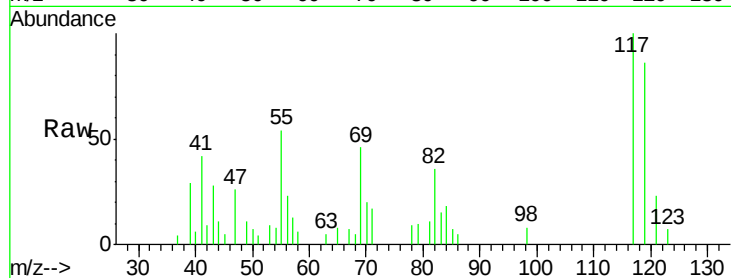
Tot Ion:117 Resp: 15699

Ion Ratio Lower Upper

117 100

119 86.4 74.7 112.1

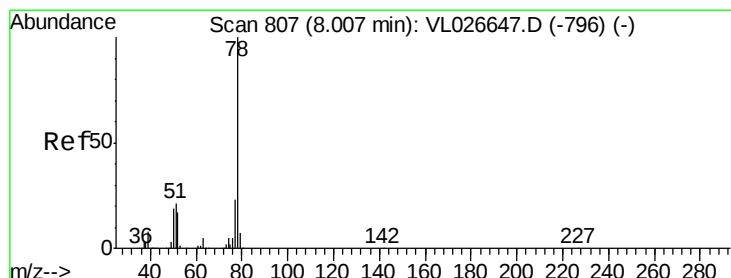
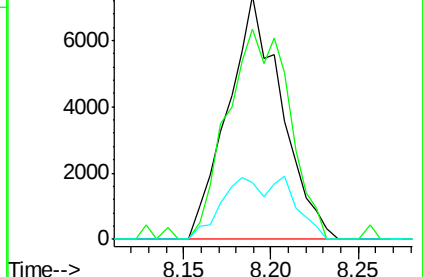
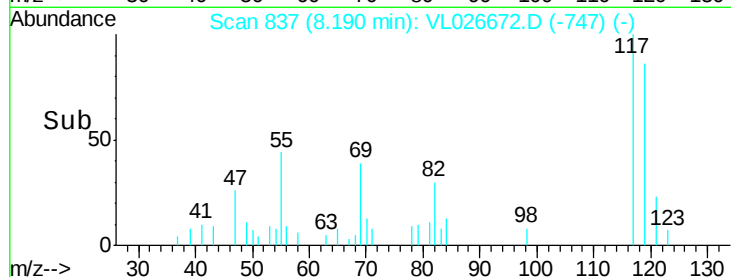
121 23.3 23.1 34.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 3.41 ppbv

RT: 8.05 min Scan# 814

Delta R.T. 0.04 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

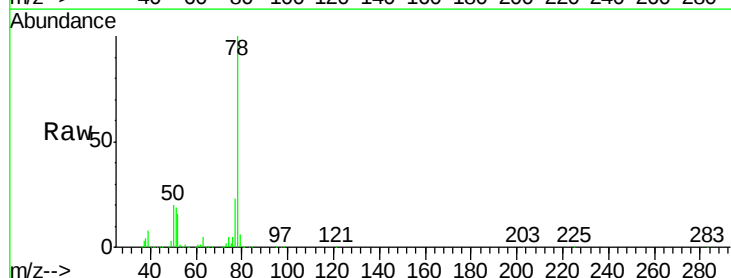
Tgt Ion: 78 Resp: 867518

Ion Ratio Lower Upper

78 100

77 22.9 18.5 27.7

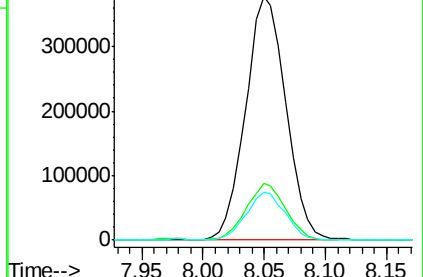
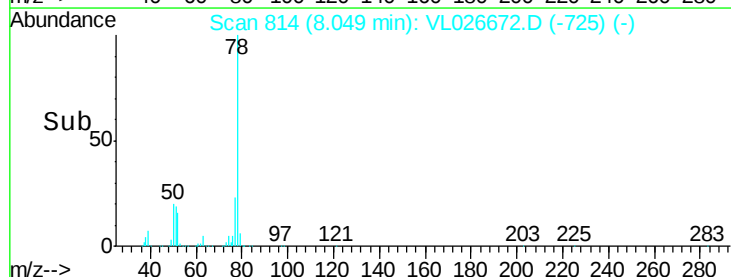
50 19.3 15.4 23.2

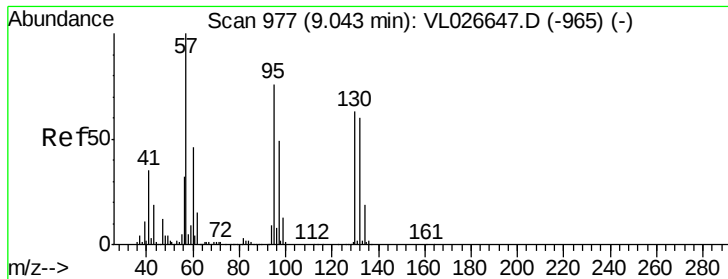


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

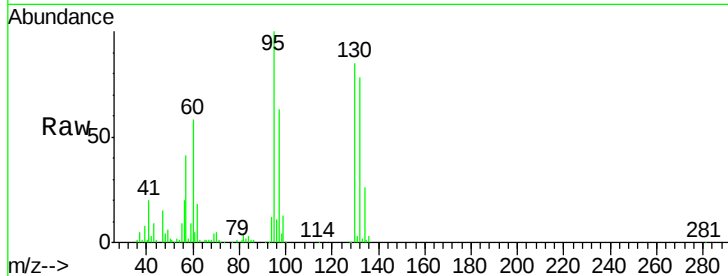




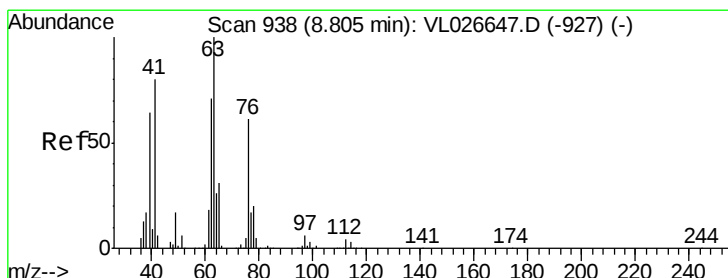
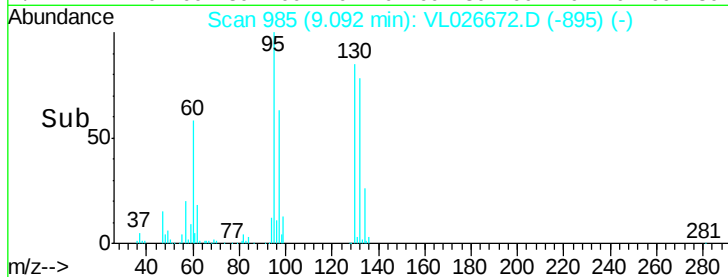
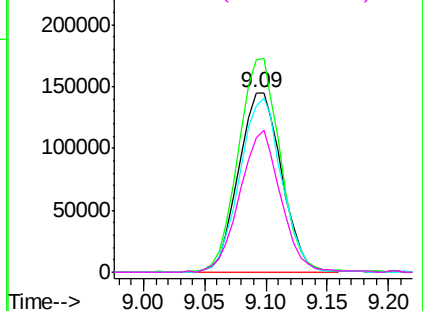
#38
 Trichloroethene
 Concen: 3.13 ppbv
 RT: 9.09 min Scan# 985
 Delta R.T. 0.05 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:130 Resp: 354685
 Ion Ratio Lower Upper
 130 100
 95 117.4 96.6 145.0
 132 92.8 76.2 114.4
 97 74.3 62.3 93.5

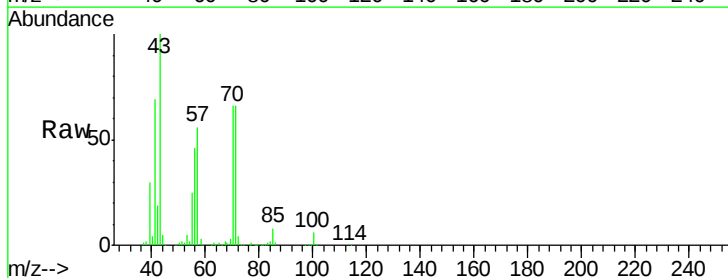


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

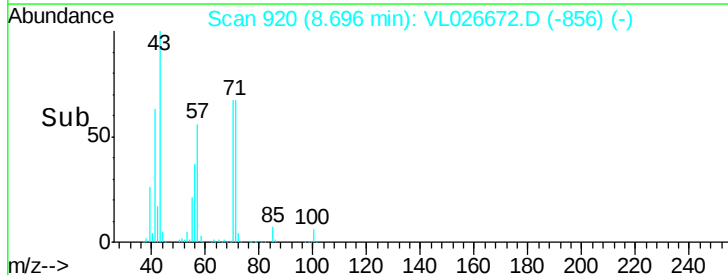
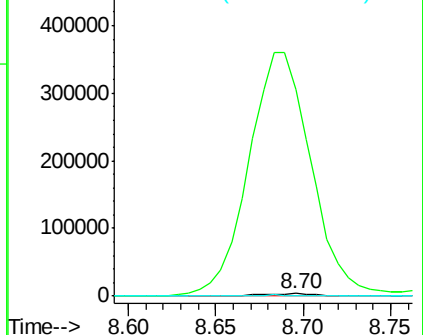


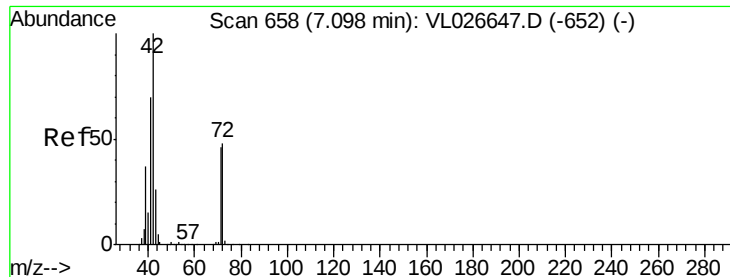
#39
 1,2-Dichloropropane
 Concen: 0.09 ppbv
 RT: 8.70 min Scan# 920
 Delta R.T. -0.11 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

Tgt Ion: 63 Resp: 8058
 Ion Ratio Lower Upper
 63 100
 41 6736.3 64.1 96.1#
 62 16.9 56.6 84.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.14 ppbv

RT: 7.18 min Scan# 671

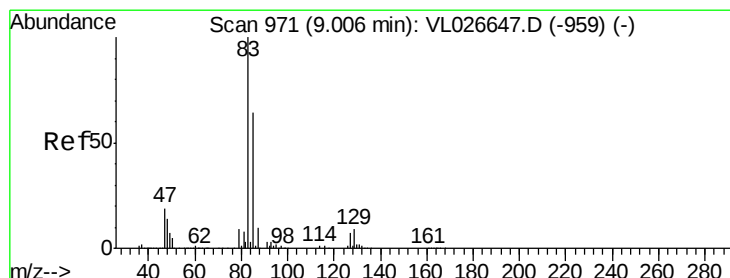
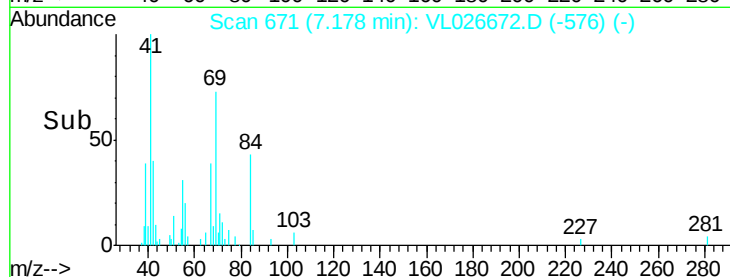
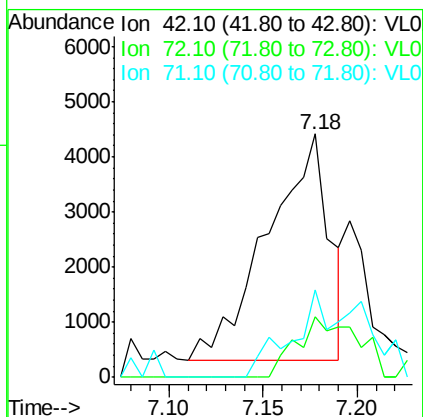
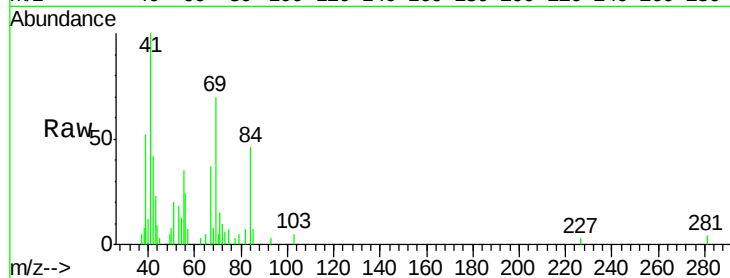
Delta R.T. 0.08 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	42	Resp:	9274
Ion	Ratio	Lower	Upper
42	100		
72	27.5	40.6	60.8#
71	42.8	38.4	57.6



#42

Bromodichloromethane

Concen: 0.16 ppbv

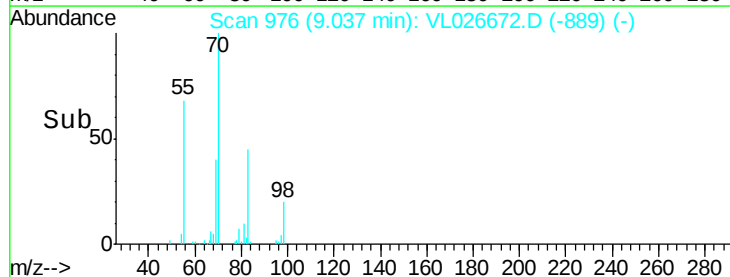
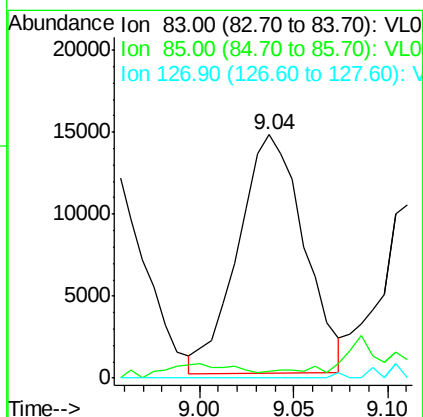
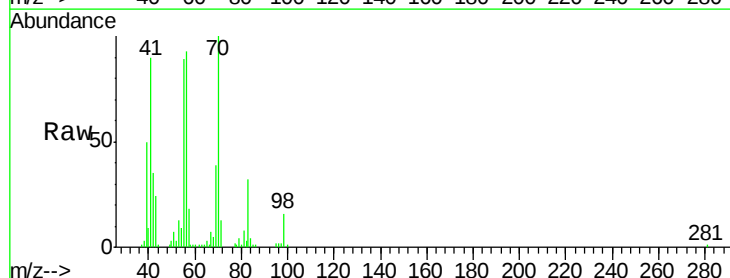
RT: 9.04 min Scan# 976

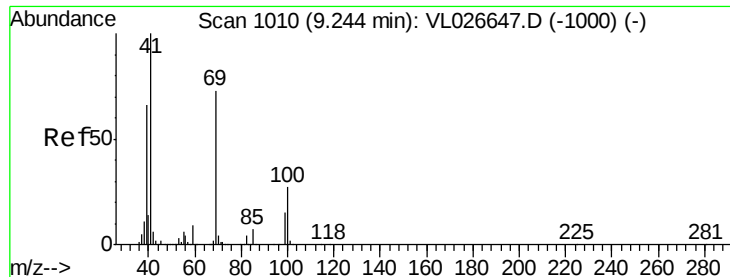
Delta R.T. 0.03 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Tgt Ion:	83	Resp:	35289
Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.9	76.3#
127	0.0	5.5	8.3#

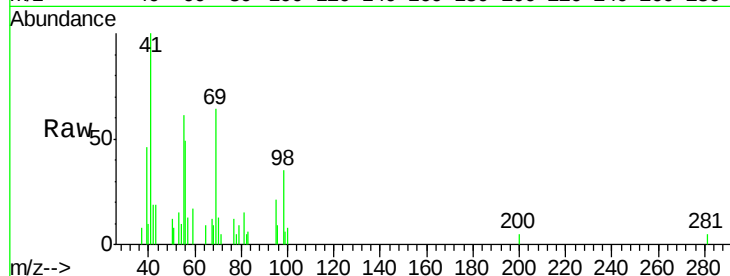




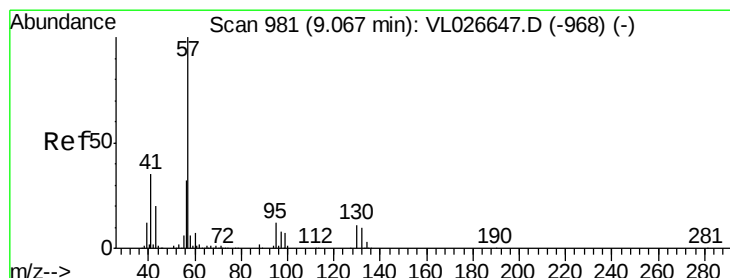
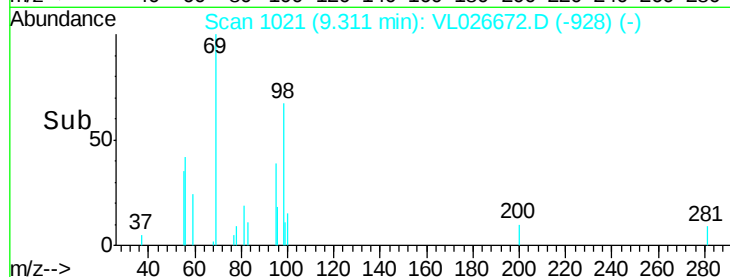
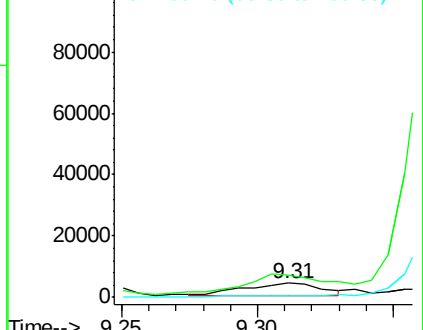
#43
Methvl Methacrvlate
Concen: 0.09 ppbv
RT: 9.31 min Scan# 1021
Delta R.T. 0.07 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 8057
Ion Ratio Lower Upper
69 100
41 0.0 106.1 159.1#
100 0.0 29.0 43.4#

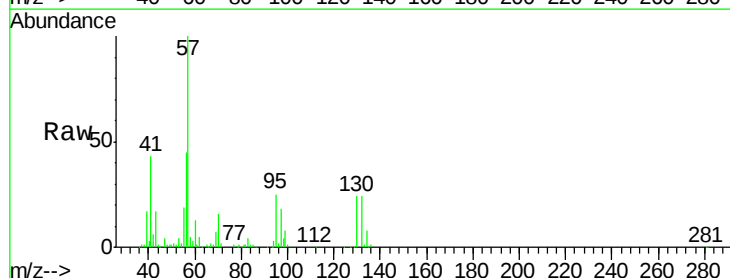


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

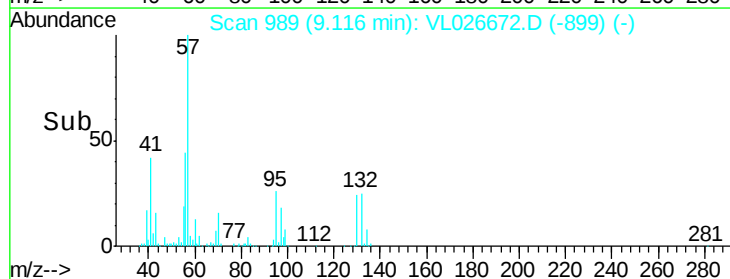
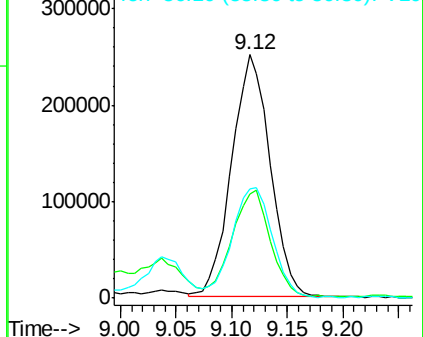


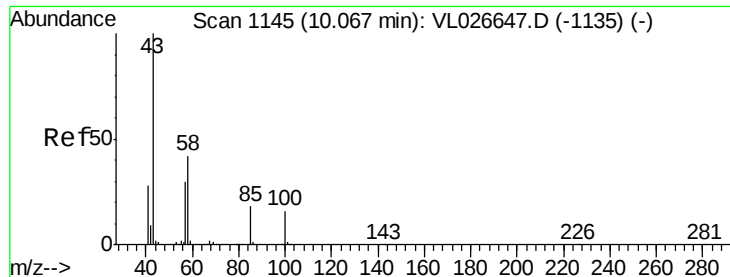
#44
2,2,4-Trimethylpentane
Concen: 1.47 ppbv
RT: 9.12 min Scan# 989
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 57 Resp: 604915
Ion Ratio Lower Upper
57 100
41 44.1 26.9 40.3#
56 47.9 25.4 38.0#



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

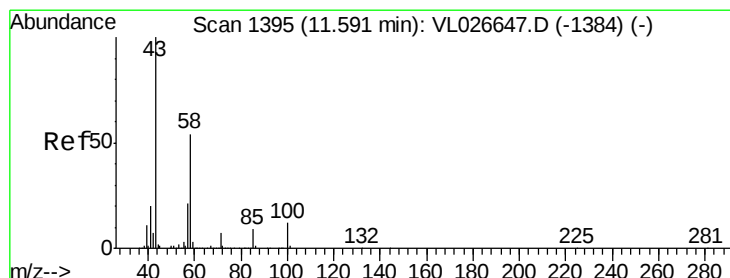
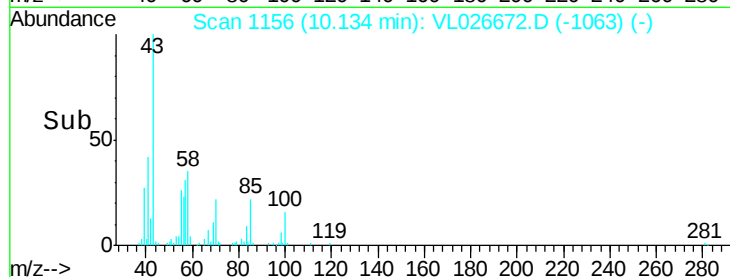
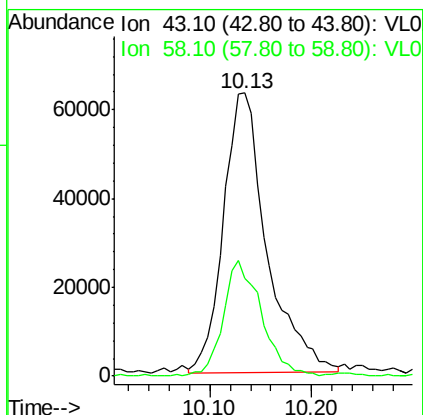
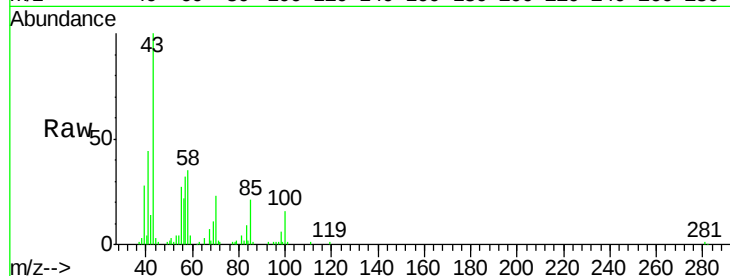




#50
4-Methyl-2-Pentanone
Concen: 1.01 ppbv
RT: 10.13 min Scan# 1156
Delta R.T. 0.07 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

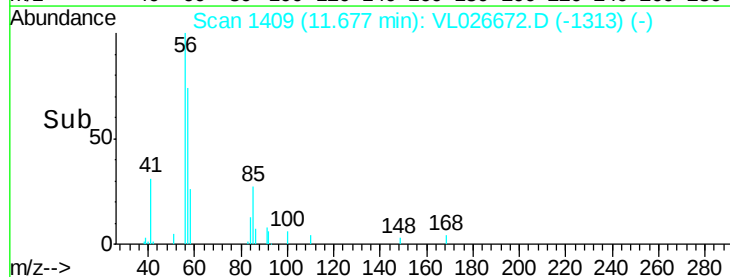
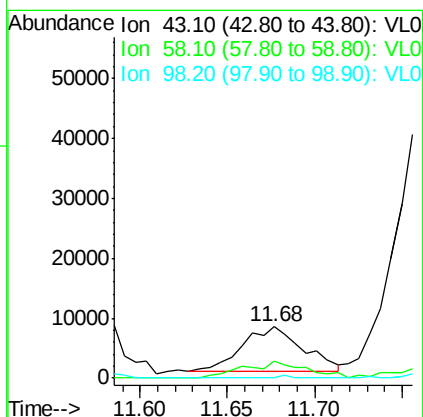
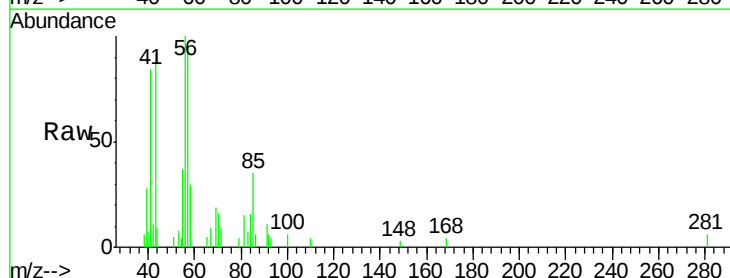
Instrument :
MSVOA_L
ClientSampleId :

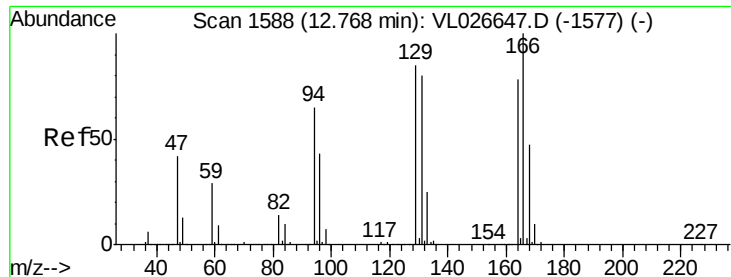
Tot Ion: 43 Resp: 186748
Ion Ratio Lower Upper
43 100
58 37.4 32.4 48.6



#51
2-Hexanone
Concen: 0.11 ppbv
RT: 11.68 min Scan# 1409
Delta R.T. 0.09 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion: 43 Resp: 18402
Ion Ratio Lower Upper
43 100
58 39.0 44.9 67.3#
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.34 ppbv

RT: 12.82 min Scan# 1597

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 42698

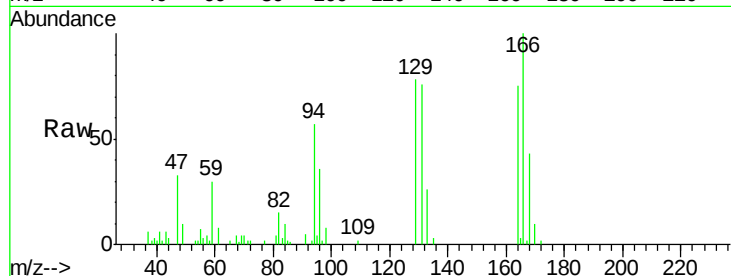
Ion Ratio Lower Upper

164 100

166 132.8 102.5 153.7

129 104.1 87.0 130.6

131 101.2 82.5 123.7

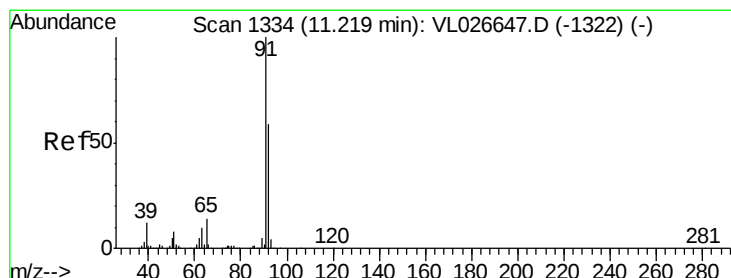
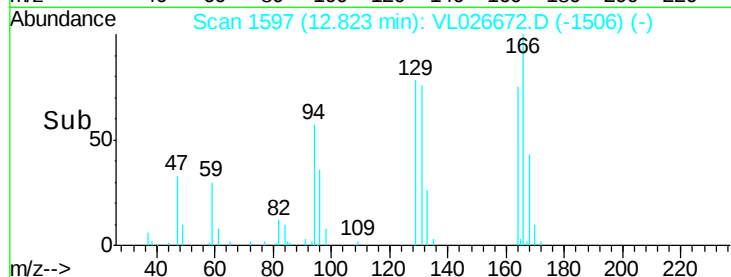
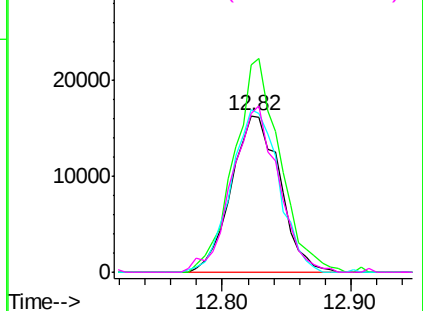


Abundance Ion 163.90 (163.60 to 164.60): V

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: 8.14 ppbv

RT: 11.27 min Scan# 1342

Delta R.T. 0.05 min

Lab File: VL026672.D

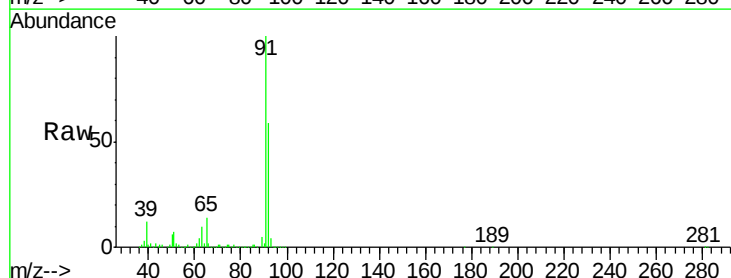
Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 2914499

Ion Ratio Lower Upper

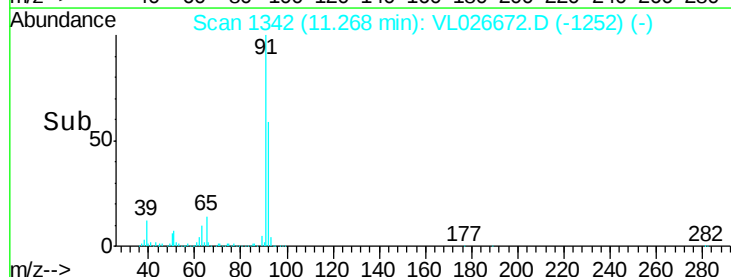
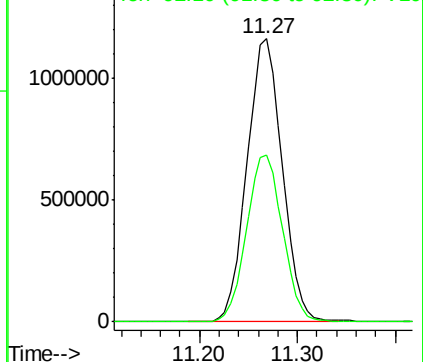
91 100

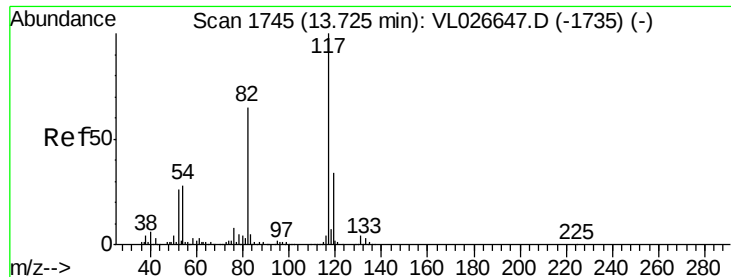
92 60.6 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

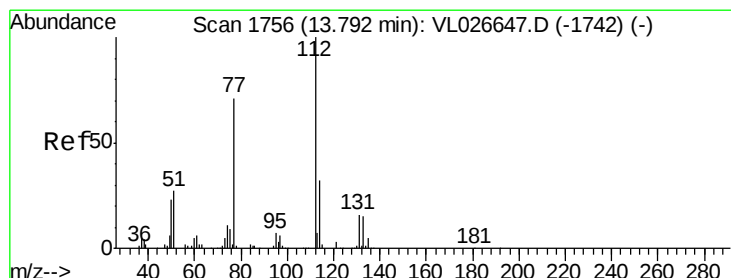
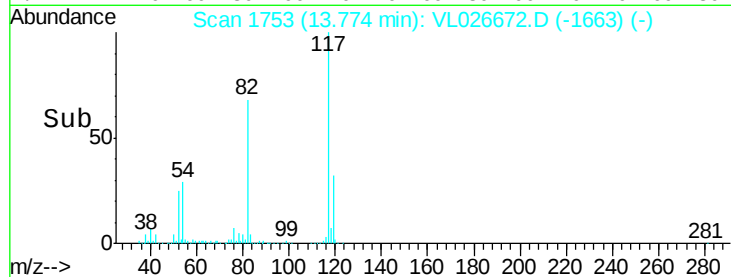
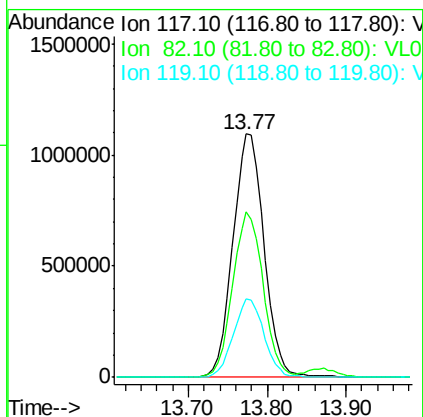
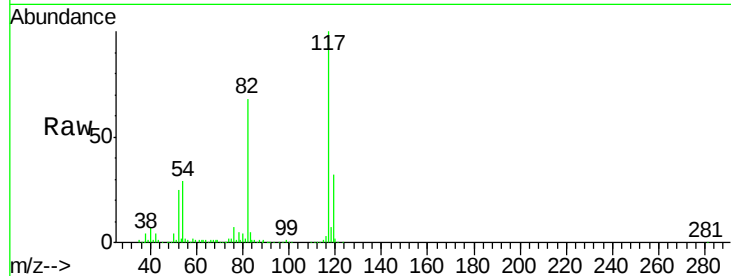




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.77 min Scan# 1753
Delta R.T. 0.05 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

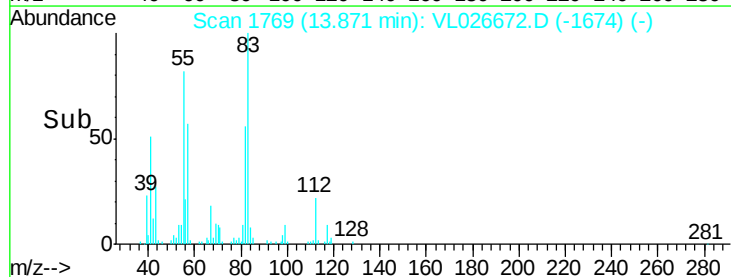
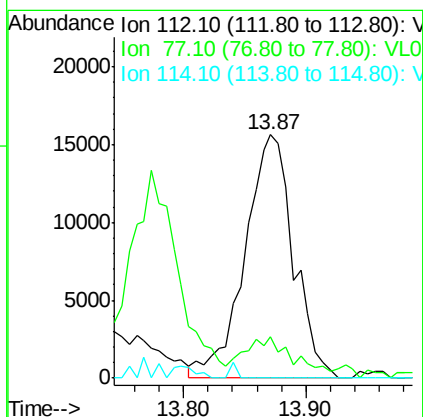
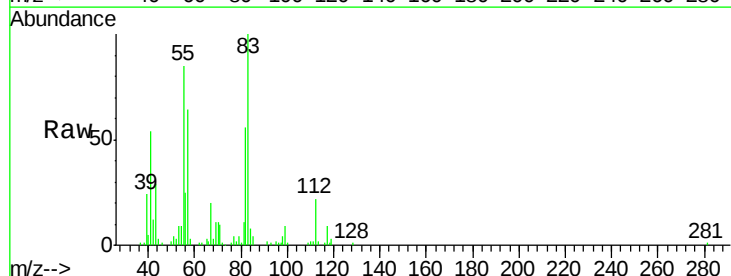
Instrument :
MSVOA_L
ClientSampled :

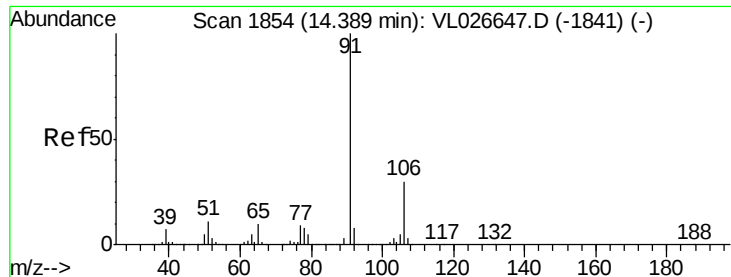
Tot Ion:117 Resp: 3014019
Ion Ratio Lower Upper
117 100
82 66.6 49.7 74.5
119 32.1 43.8 65.8#



#57
Chlorobenzene
Concen: 0.14 ppbv
RT: 13.87 min Scan# 1769
Delta R.T. 0.08 min
Lab File: VL026672.D
Acq: 12 Jan 2016 13:24

Tgt Ion:112 Resp: 43249
Ion Ratio Lower Upper
112 100
77 13.1 56.9 85.3#
114 0.0 28.8 35.2#





#58

Ethyl Benzene

Concen: 2.01 ppbv

RT: 14.44 min Scan# 1863

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

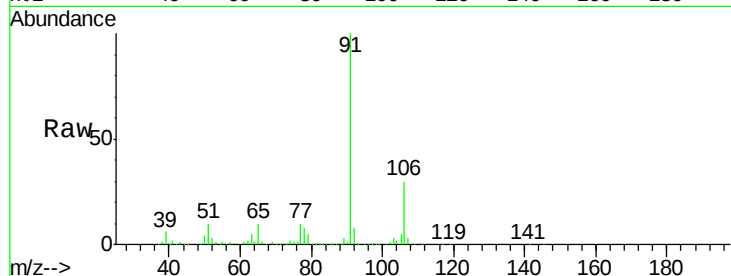
ClientSampleId :

Tot Ion: 91 Resp: 1083887

Ion Ratio Lower Upper

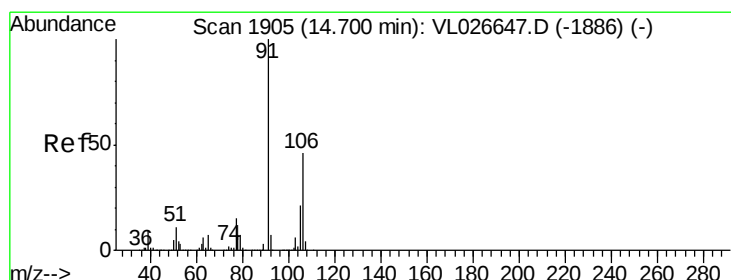
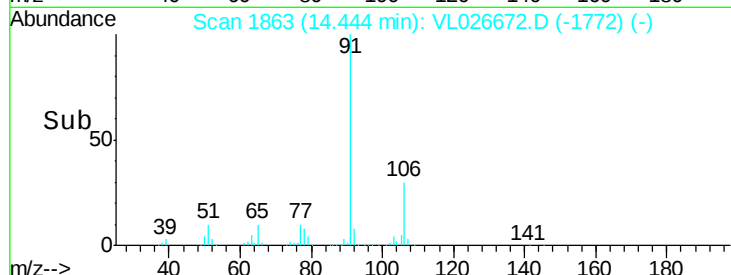
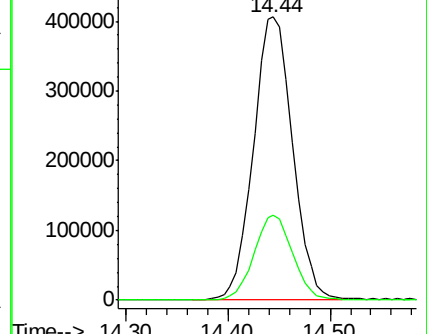
91 100

106 30.2 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: 7.34 ppbv

RT: 14.72 min Scan# 1909

Delta R.T. 0.02 min

Lab File: VL026672.D

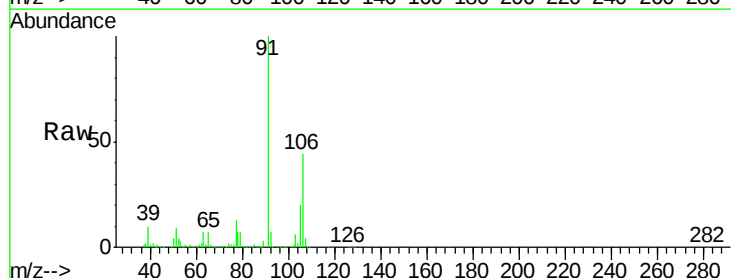
Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 3257492

Ion Ratio Lower Upper

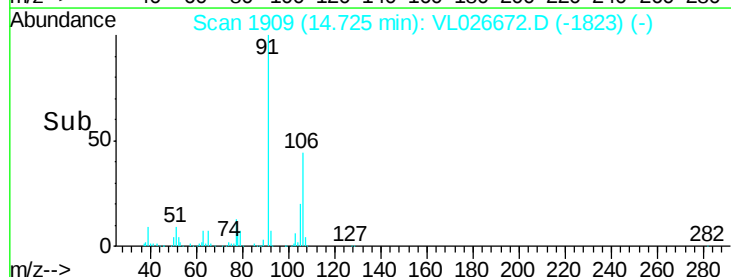
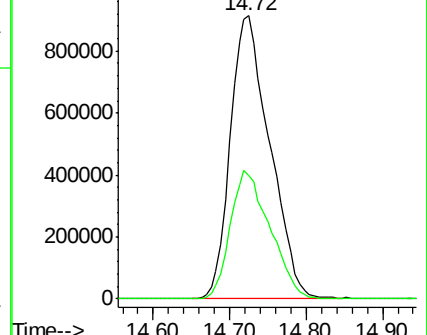
91 100

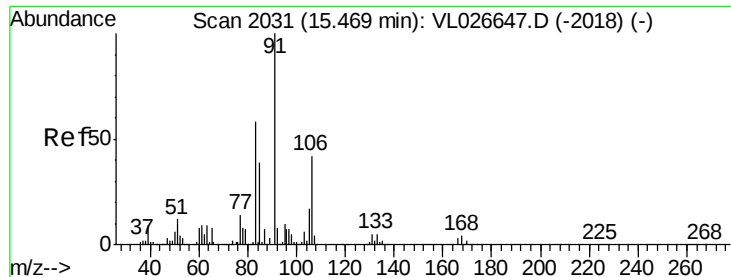
106 46.0 36.6 55.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 2.87 ppbv

RT: 15.52 min Scan# 2040

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

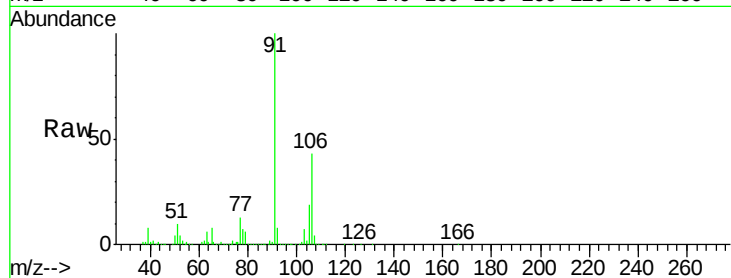
ClientSampled :

Tot Ion: 91 Resp: 1378330

Ion Ratio Lower Upper

91 100

106 43.4 21.5 64.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

600000

500000

400000

300000

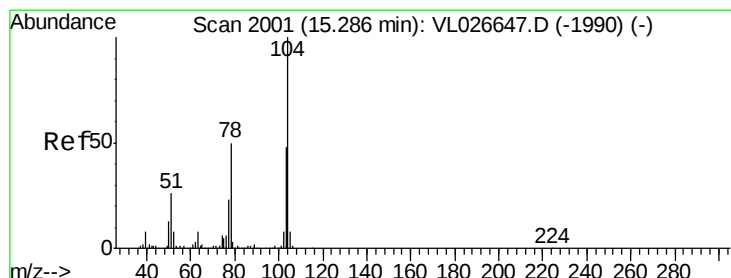
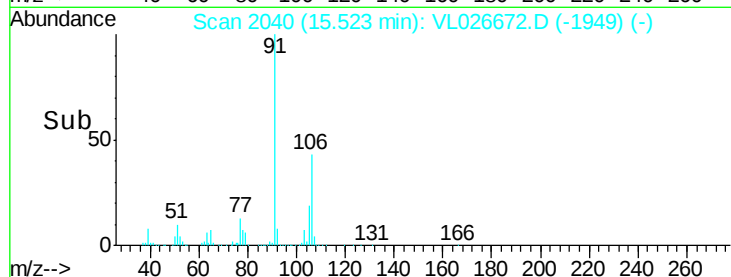
200000

100000

0

15.40 15.50 15.60

Time-->



#61

Styrene

Concen: 0.66 ppbv

RT: 15.35 min Scan# 2011

Delta R.T. 0.06 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

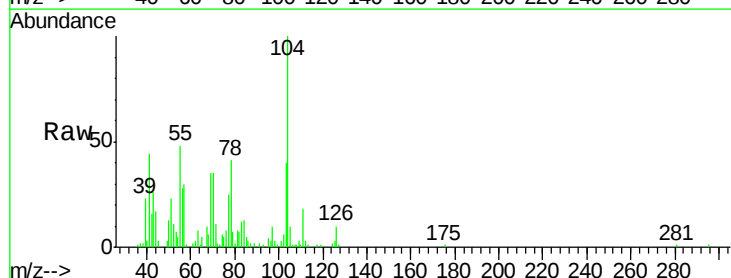
Tgt Ion: 104 Resp: 123631

Ion Ratio Lower Upper

104 100

78 49.5 39.6 59.4

103 46.3 37.8 56.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

60000

50000

40000

30000

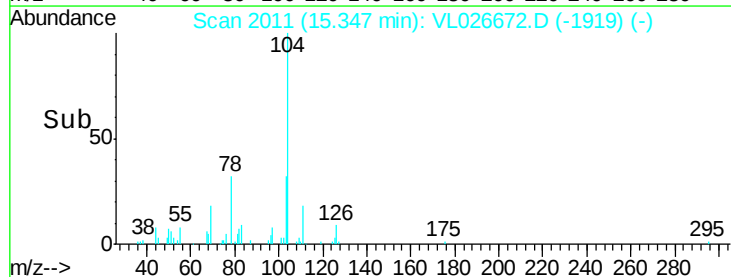
20000

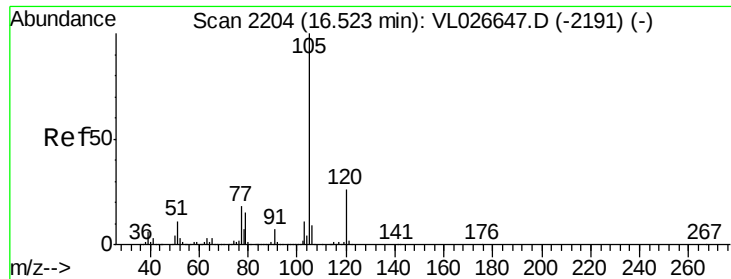
10000

0

15.30 15.40

Time-->





#62

Isopropylbenzene

Concen: 0.25 ppbv

RT: 16.58 min Scan# 2213

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

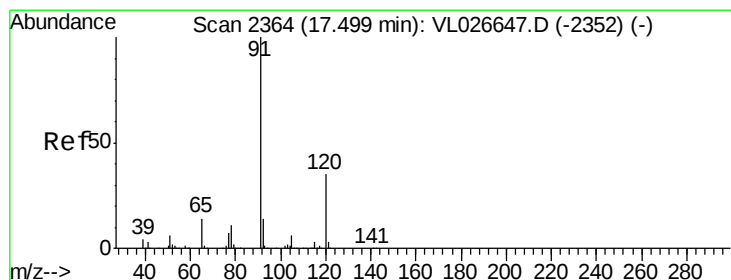
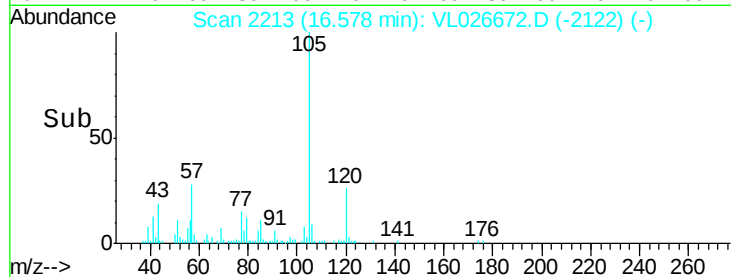
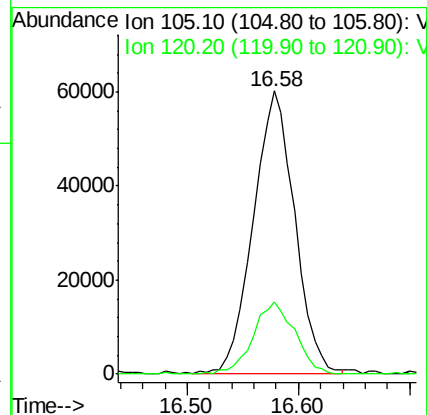
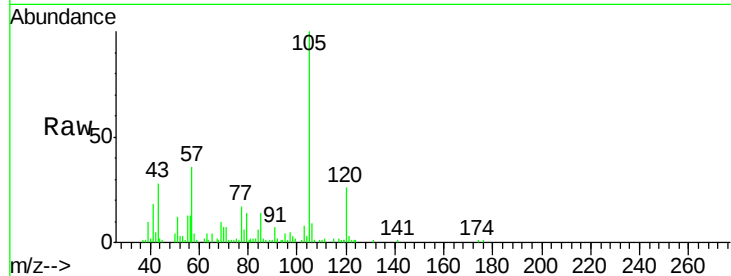
ClientSampleId :

Tot Ion:105 Resp: 156157

Ion Ratio Lower Upper

105 100

120 25.8 20.3 30.5



#64

n-propylbenzene

Concen: 0.81 ppbv

RT: 17.55 min Scan# 2373

Delta R.T. 0.05 min

Lab File: VL026672.D

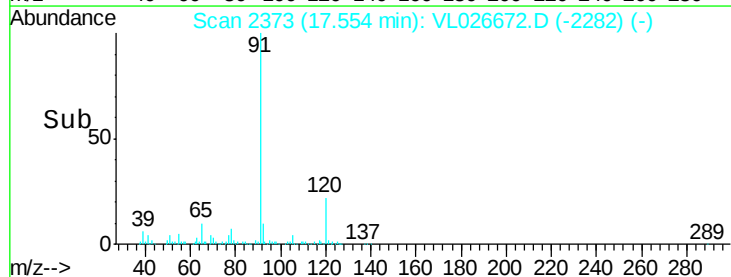
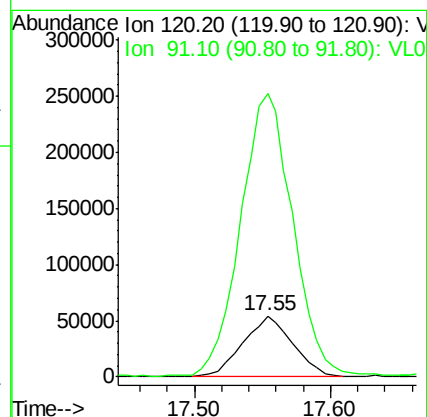
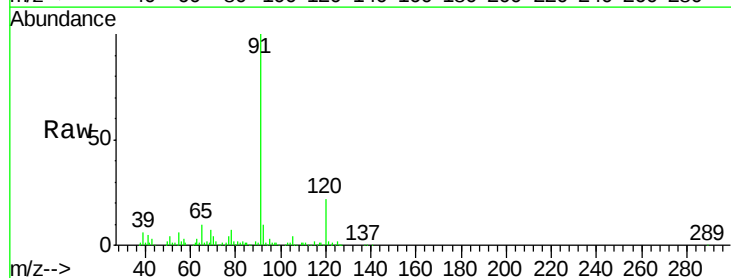
Acq: 12 Jan 2016 13:24

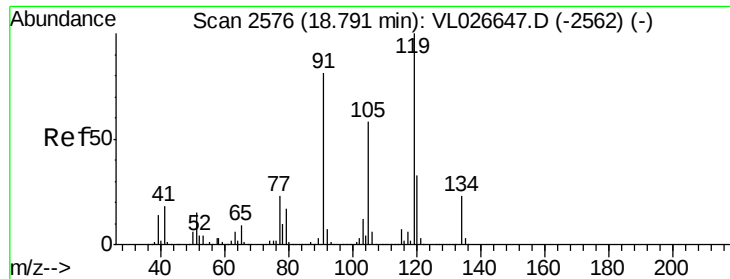
Tgt Ion:120 Resp: 137902

Ion Ratio Lower Upper

120 100

91 484.8 375.8 563.6

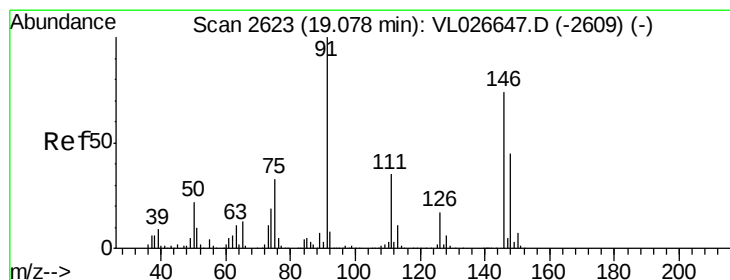
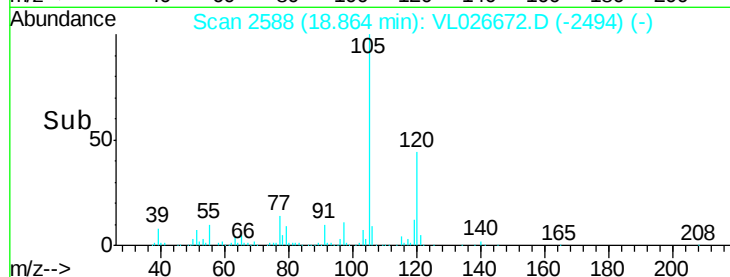
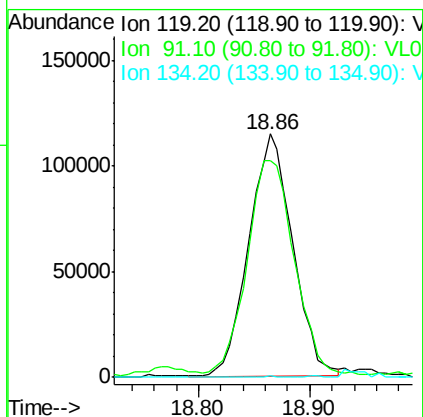
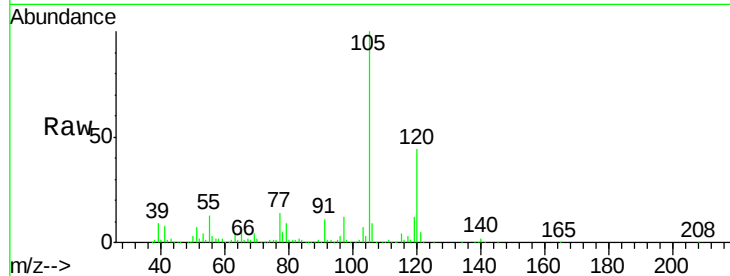




#65
 tert-Butylbenzene
 Concen: 0.54 ppbv
 RT: 18.86 min Scan# 2588
 Delta R.T. 0.07 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

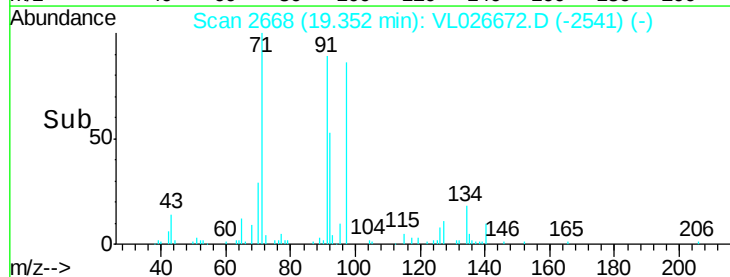
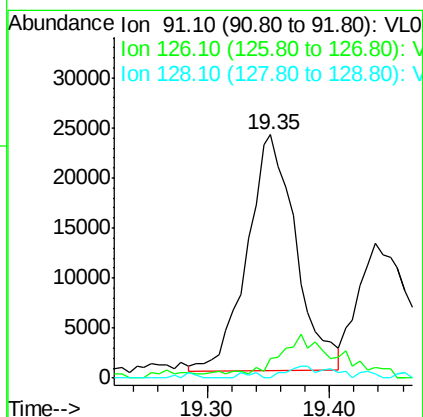
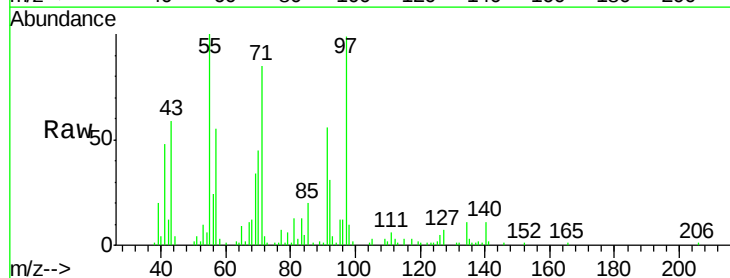
Instrument :
 MSVOA_L
 ClientSampleId :

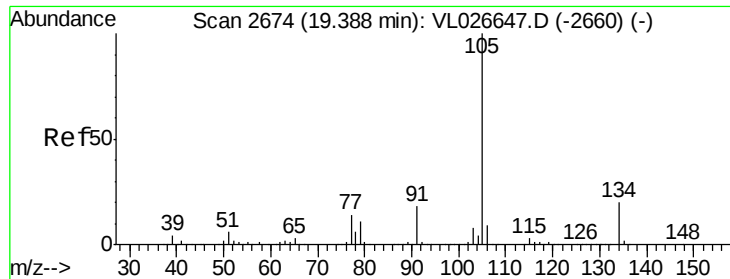
Tot Ion:119 Resp: 315061
 Ion Ratio Lower Upper
 119 100
 91 99.4 64.8 97.2#
 134 0.1 17.4 26.0#



#66
 Benzyl Chloride
 Concen: 0.31 ppbv
 RT: 19.35 min Scan# 2668
 Delta R.T. 0.27 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

Tgt Ion: 91 Resp: 65382
 Ion Ratio Lower Upper
 91 100
 126 25.9 14.2 21.2#
 128 6.7 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.24 ppbv

RT: 19.44 min Scan# 2683

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

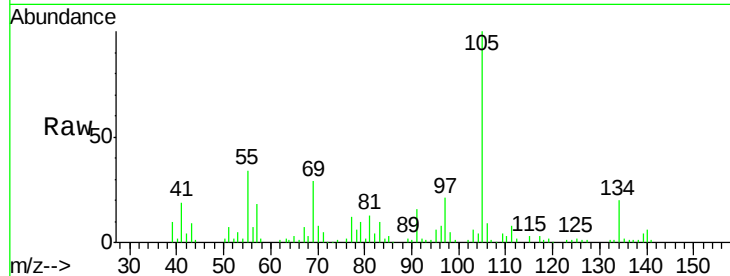
ClientSampleId :

Tot Ion:105 Resp: 210613

Ion Ratio Lower Upper

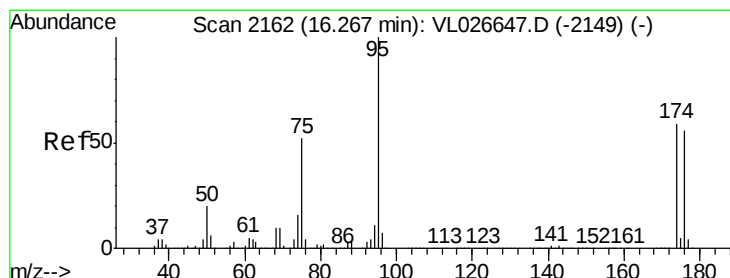
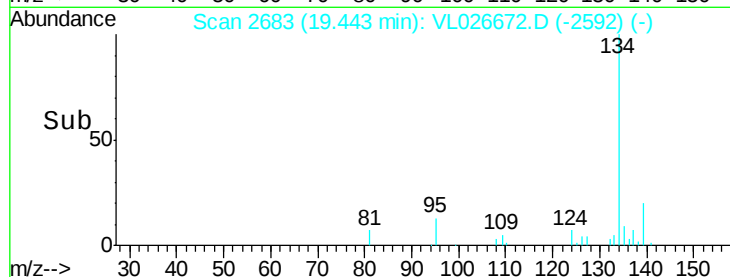
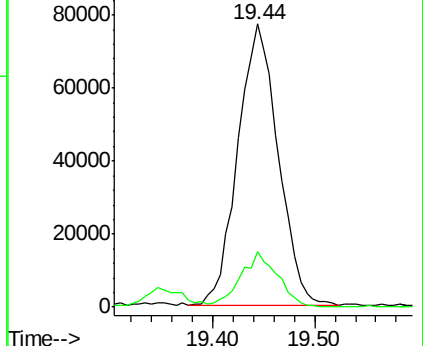
105 100

134 18.2 14.9 22.3



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: 10.01 ppbv

RT: 16.32 min Scan# 2171

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

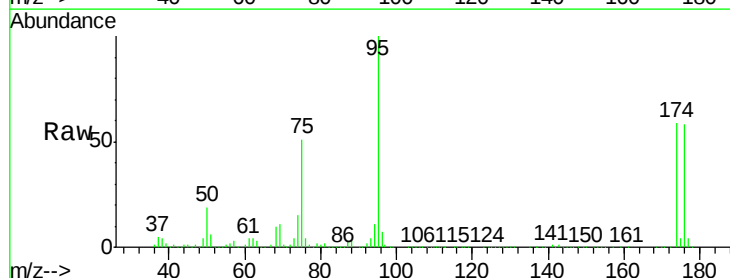
Tgt Ion: 95 Resp: 2403822

Ion Ratio Lower Upper

95 100

174 59.3 47.8 71.8

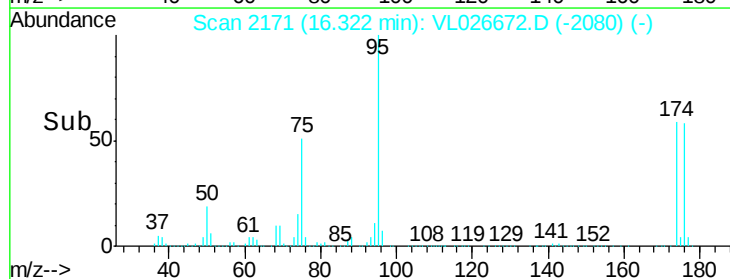
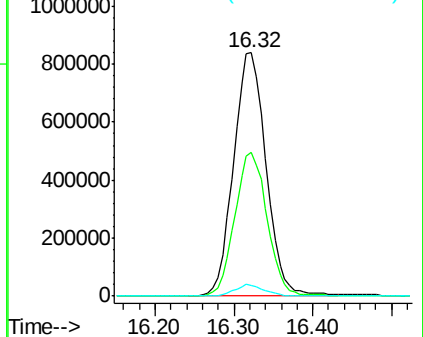
175 4.3 3.6 5.4

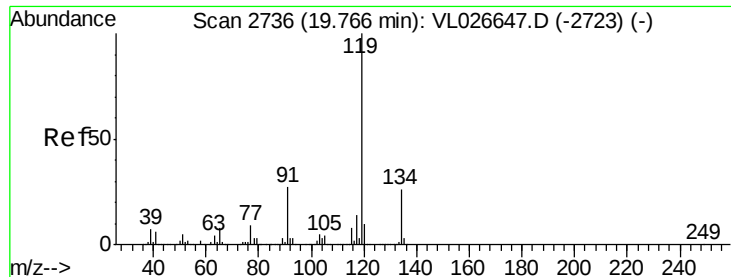


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

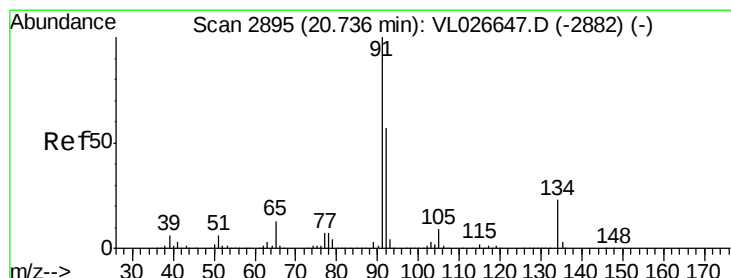
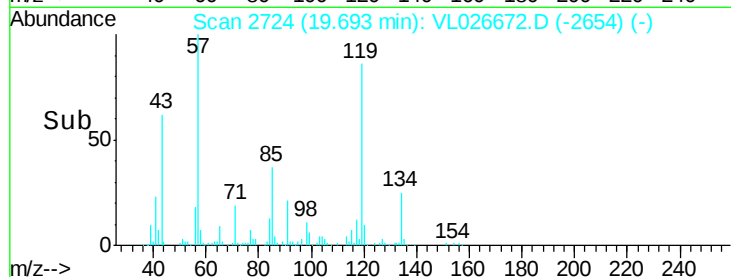
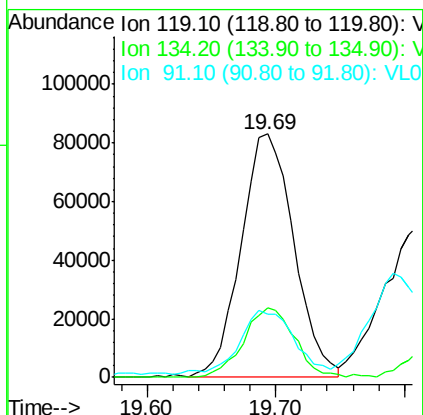
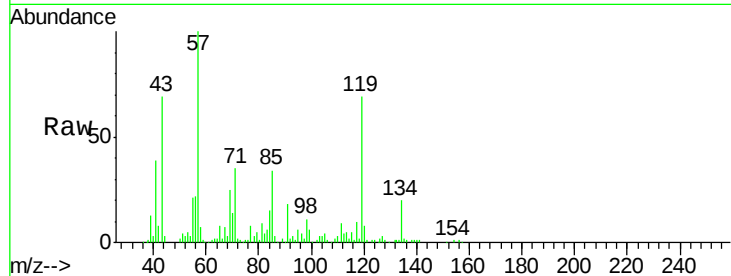




#69
 p-Isopropyltoluene
 Concen: 0.36 ppbv
 RT: 19.69 min Scan# 2724
 Delta R.T. -0.07 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

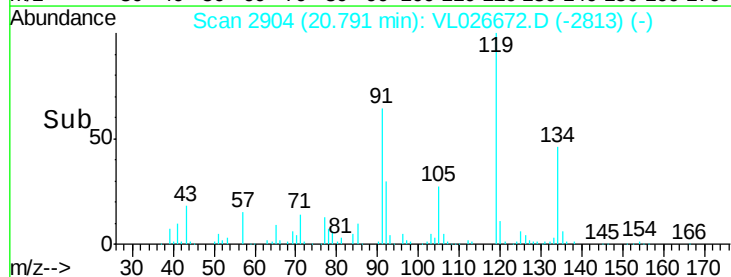
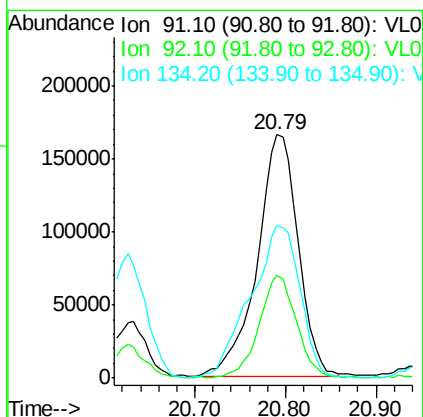
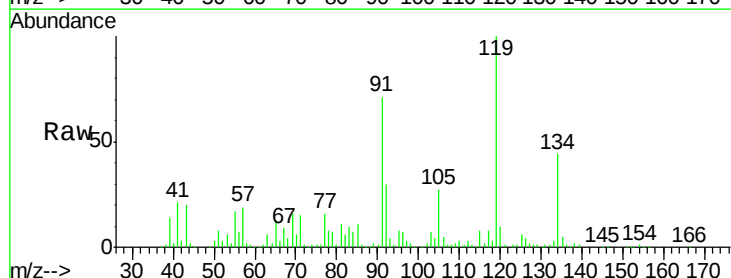
Instrument :
 MSVOA_L
 ClientSampled :

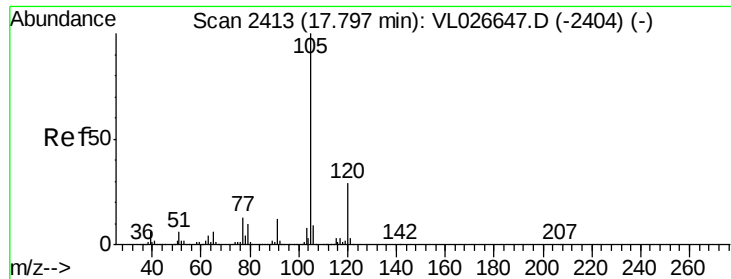
Tot Ion:119 Resp: 234722
 Ion Ratio Lower Upper
 119 100
 134 27.6 20.6 31.0
 91 28.2 21.7 32.5



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

Tgt Ion: 91 Resp: 518447
 Ion Ratio Lower Upper
 91 100
 92 38.5 45.0 67.4#
 134 76.3 18.2 27.2#





#72

4-Ethyltoluene

Concen: 1.42 ppbv

RT: 17.85 min Scan# 2422

Delta R.T. 0.05 min

Lab File: VL026672.D

Acq: 12 Jan 2016 13:24

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 762505

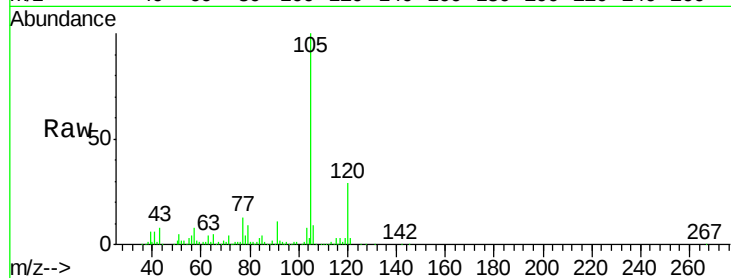
Ion Ratio Lower Upper

105 100

120 30.3 23.7 35.5

91 11.3 9.7 14.5

77 12.0 10.3 15.5

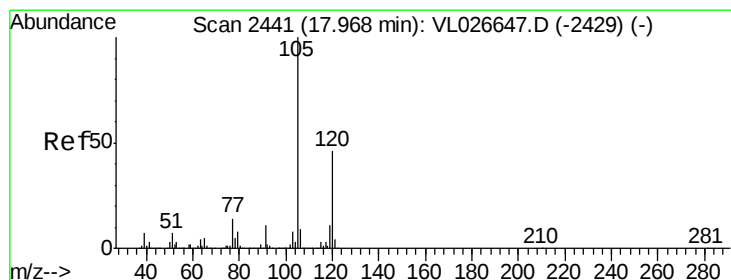
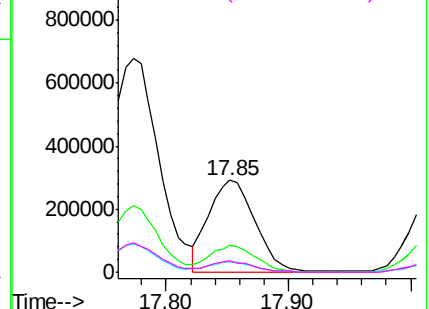
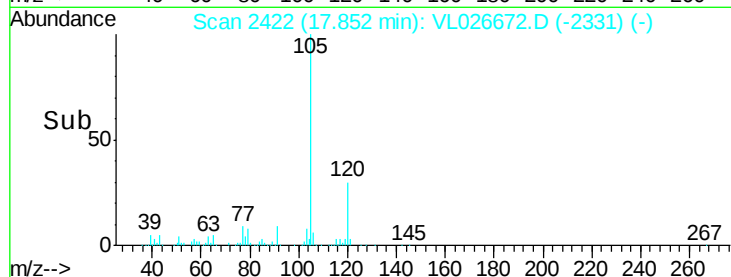


Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.45 ppbv

RT: 18.02 min Scan# 2450

Delta R.T. 0.05 min

Lab File: VL026672.D

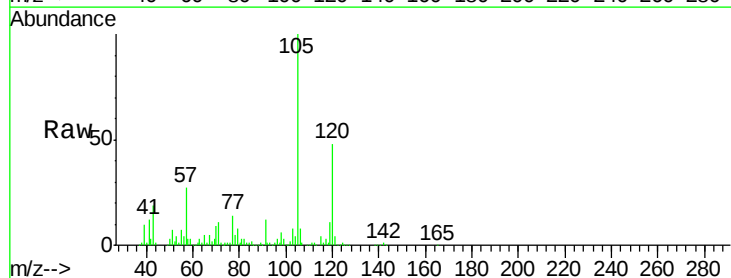
Acq: 12 Jan 2016 13:24

Tgt Ion:105 Resp: 736893

Ion Ratio Lower Upper

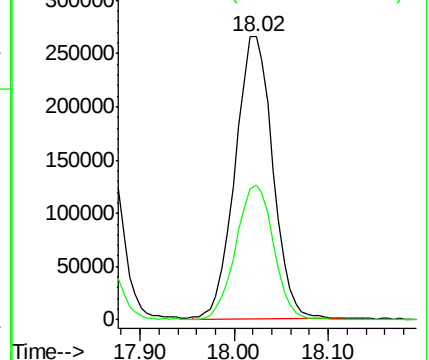
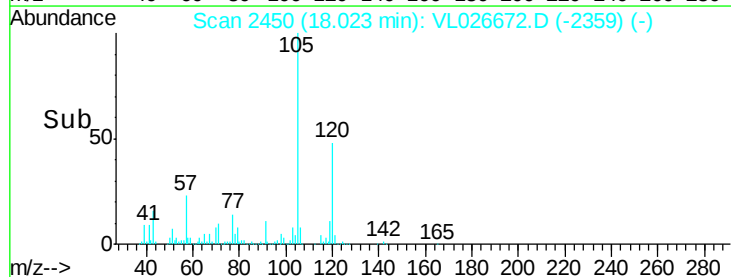
105 100

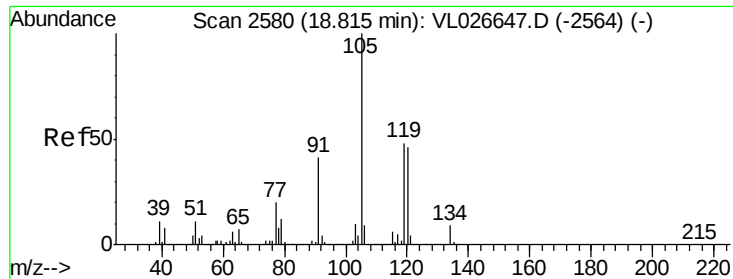
120 47.9 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

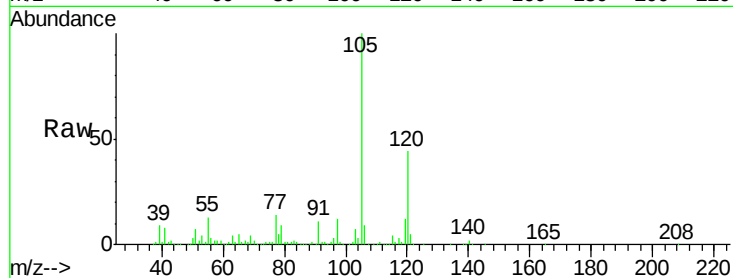




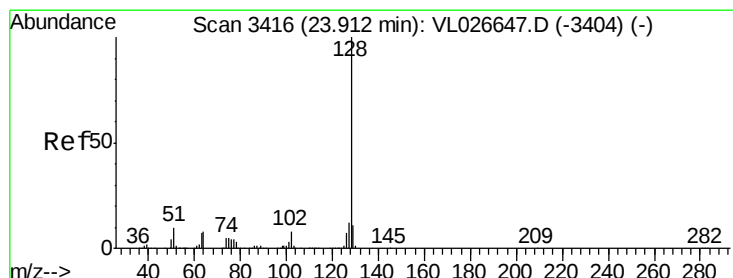
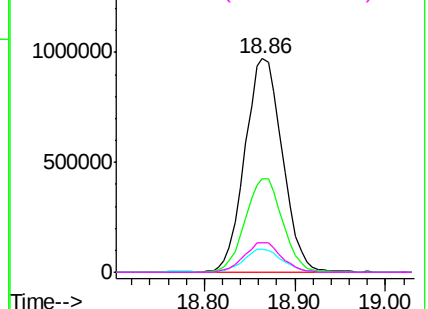
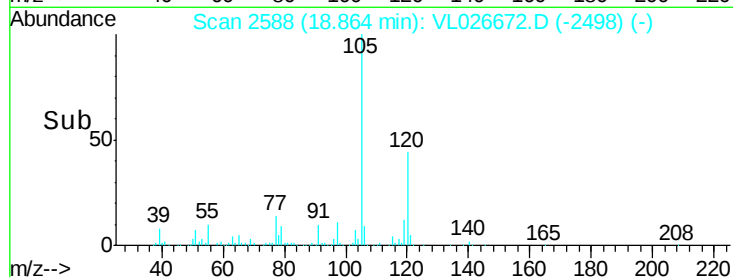
#74
 1,2,4-Trimethylbenzene
 Concen: 5.15 ppbv
 RT: 18.86 min Scan# 2588
 Delta R.T. 0.05 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:105 Resp: 2780030
 Ion Ratio Lower Upper
 105 100
 120 43.7 36.6 55.0
 91 10.4 32.5 48.7#
 77 13.8 15.7 23.5#

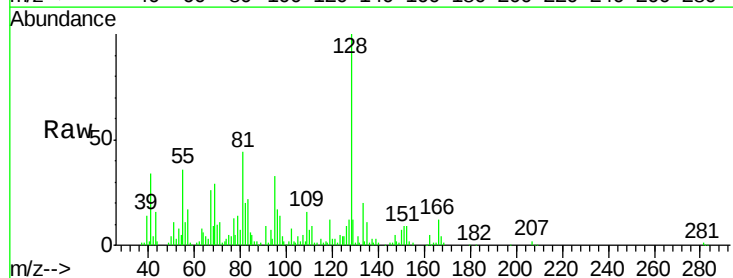


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

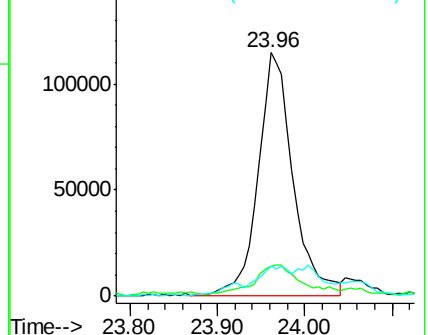
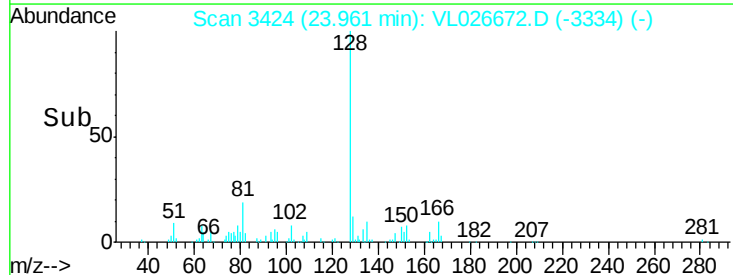


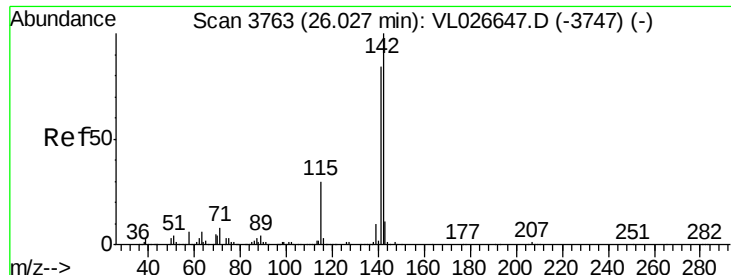
#79
 Naphthalene
 Concen: 0.86 ppbv
 RT: 23.96 min Scan# 3424
 Delta R.T. 0.05 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

Tgt Ion:128 Resp: 314558
 Ion Ratio Lower Upper
 128 100
 127 10.7 9.8 14.8
 129 12.0 8.9 13.3



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: 0.31 ppbv
 RT: 26.08 min Scan# 3772
 Delta R.T. 0.05 min
 Lab File: VL026672.D
 Acq: 12 Jan 2016 13:24

Instrument :
 MSVOA_L
 ClientSampleId :

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

