

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026679.D
 Acq On : 12 Jan 2016 17:55
 Operator : SY/AP
 Sample : H1064-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 13 03:02:44 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	775862	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.36	114	2404842	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.79	117	3116877	10.00	ppbv	0.06

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2502318	10.07	ppbv	0.06
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	114615	0.56	ppbv	96
3) Chlorodifluoromethane	3.59	51	113543	1.10	ppbv	97
4) Chloromethane	3.78	50	4904	0.10	ppbv #	85
9) Propene	3.86	41	3612885	97.28	ppbv	84
10) Heptane	9.39	43	810464	5.86	ppbv	97
11) Trichlorofluoromethane	4.73	101	50552	0.24	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	5.34	101	10015	0.08	ppbv	99
13) Ethanol	4.36	45	52563	7.45	ppbv	91
15) Acetone	4.63	43	1257077	9.85	ppbv	95
16) 1,3-Butadiene	3.97	39	85717	1.68	ppbv #	42
17) tert-Butyl alcohol	4.94	59	360782	3.75	ppbv	99
19) Isopropyl Alcohol	4.79	45	248160	4.71	ppbv #	1
20) Methylene Chloride	5.18	84	1115408	21.30	ppbv	98
21) Allyl Chloride	5.25	41	2699	0.03	ppbv #	9
23) Vinyl Acetate	5.99	43	43456	0.22	ppbv #	1
25) Ethyl Acetate	6.69	43	109784	0.56	ppbv #	79
26) Hexane	6.69	57	171575	1.68	ppbv #	46
27) Carbon Disulfide	5.42	76	81020	0.54	ppbv #	82
29) Chloroform	6.78	83	15193	0.08	ppbv	94
30) Cyclohexane	8.32	84	46700	0.46	ppbv #	38
34) 2-Butanone	6.24	43	111713	0.87	ppbv	95
35) Carbon Tetrachloride	8.19	117	12973	0.06	ppbv	91
36) Benzene	8.06	78	515338	2.08	ppbv	97
38) Trichloroethene	9.10	130	36499	0.33	ppbv #	81
39) 1,2-Dichloropropane	8.70	63	4347	0.05	ppbv #	1
41) Tetrahydrofuran	7.19	42	24034	0.38	ppbv	93
42) Bromodichloromethane	9.04	83	27258	0.12	ppbv #	24
43) Methyl Methacrylate	9.31	69	4192	0.05	ppbv #	1
44) 2,2,4-Trimethylpentane	9.12	57	299306	0.75	ppbv #	69
52) Tetrachloroethene	12.83	164	18756	0.15	ppbv #	89
53) Toluene	11.27	91	2128298	6.10	ppbv	100
57) Chlorobenzene	13.88	112	28388	0.09	ppbv #	28
58) Ethyl Benzene	14.45	91	4492798	8.07	ppbv	98
59) m/p-Xylene	14.74	91	14510407	31.62	ppbv	100
60) o-Xylene	15.53	91	6614940	13.34	ppbv	98
61) Styrene	15.36	104	87351	0.45	ppbv	98
62) Isopropylbenzene	16.58	105	136810	0.21	ppbv	97
64) n-propylbenzene	17.56	120	75739	0.43	ppbv	91
65) tert-Butylbenzene	18.88	119	161057	0.27	ppbv #	79
66) Benzyl Chloride	19.36	91	23275	0.11	ppbv #	87
67) sec-Butylbenzene	19.45	105	75134	0.08	ppbv	96

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ClientSampleId :

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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

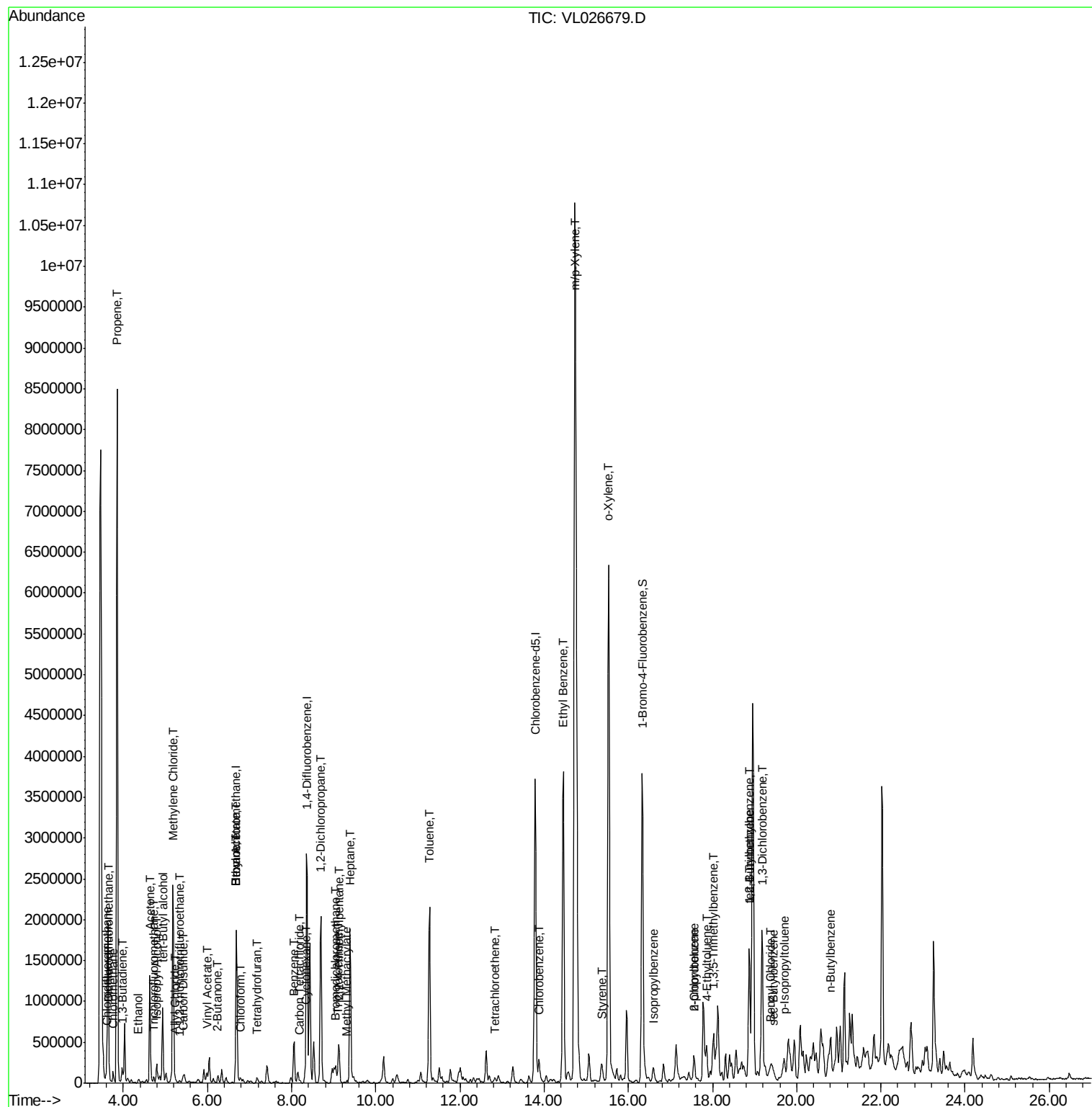
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	19.70	119	76345	0.11	ppbv	93
70) n-Butylbenzene	20.80	91	75647	0.11	ppbv #	1
71) 2-Chlorotoluene	17.56	91	363522	0.71	ppbv #	46
72) 4-Ethyltoluene	17.86	105	427812	0.77	ppbv	97
73) 1,3,5-Trimethylbenzene	18.03	105	369602	0.70	ppbv	94
74) 1,2,4-Trimethylbenzene	18.87	105	1391610	2.49	ppbv #	76
75) 1,3-Dichlorobenzene	19.17	146	18705	0.05	ppbv	87

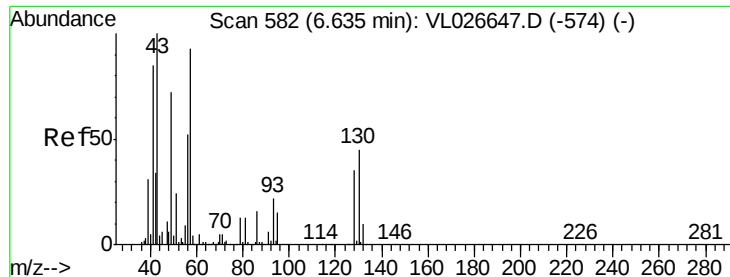
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

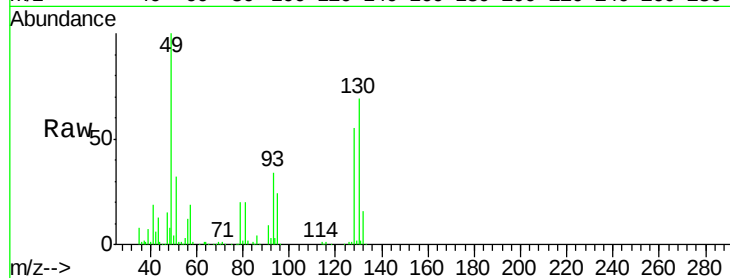
Tot Ion: 49 Resp: 775862

Ion Ratio Lower Upper

49 100

128 56.2 25.9 77.7

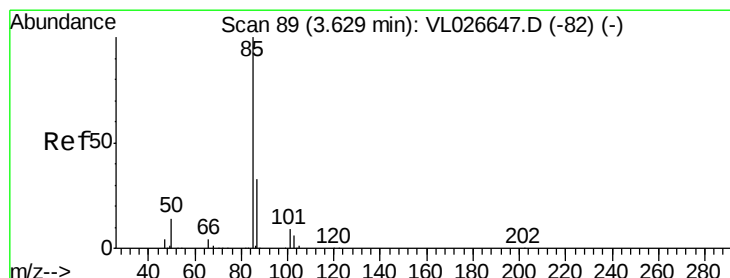
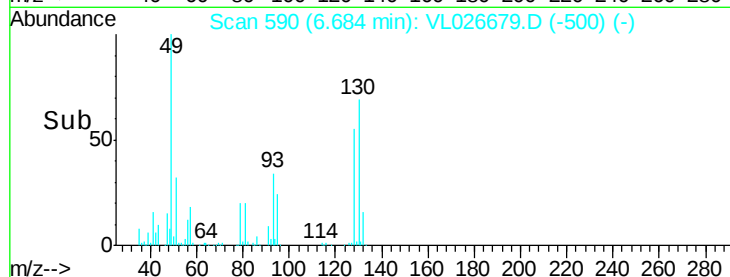
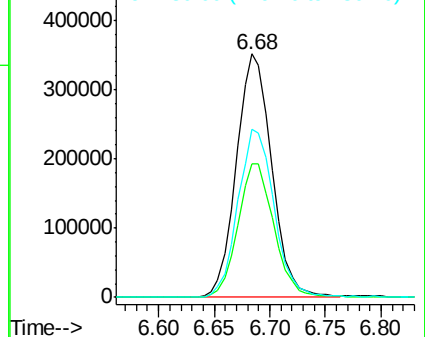
130 71.8 33.6 100.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.56 ppbv

RT: 3.67 min Scan# 95

Delta R.T. 0.04 min

Lab File: VL026679.D

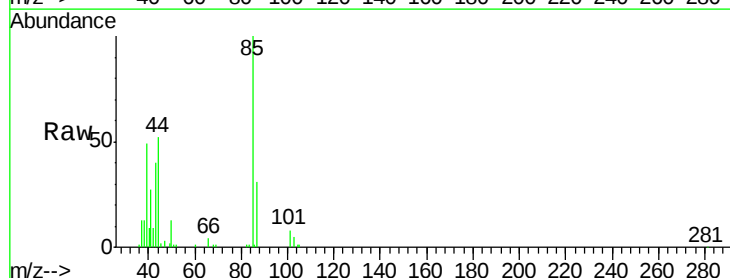
Acq: 12 Jan 2016 17:55

Tgt Ion: 85 Resp: 114615

Ion Ratio Lower Upper

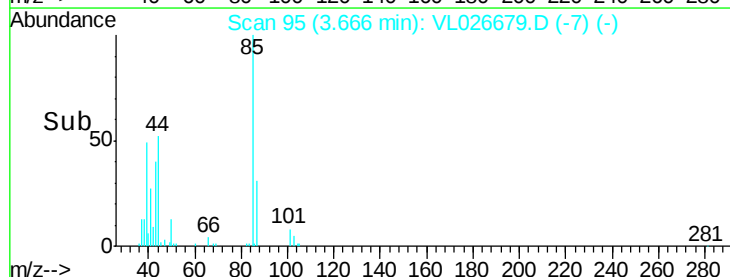
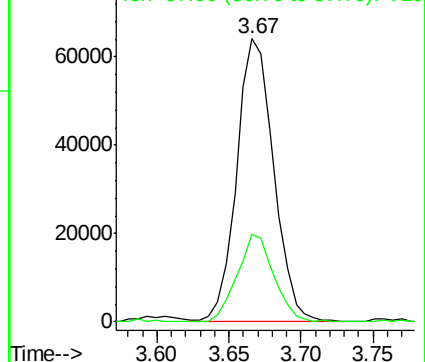
85 100

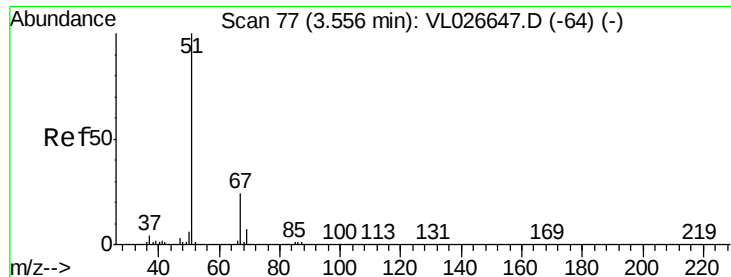
87 31.0 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.10 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.04 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

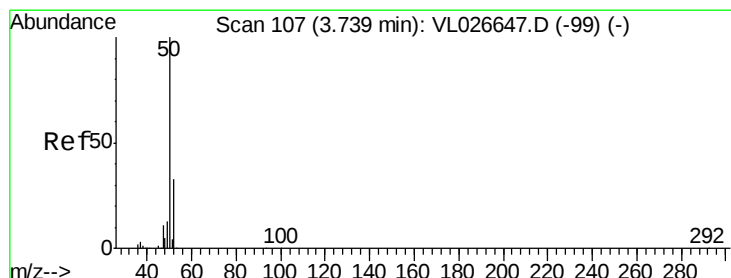
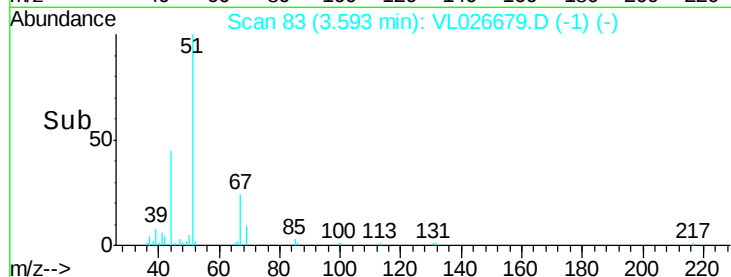
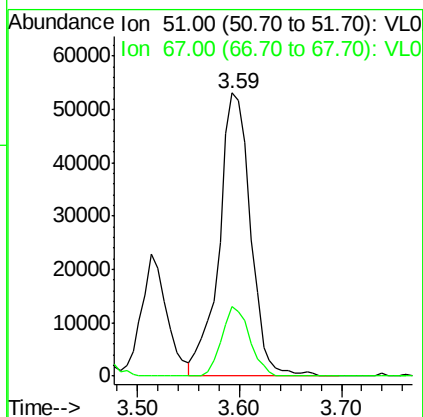
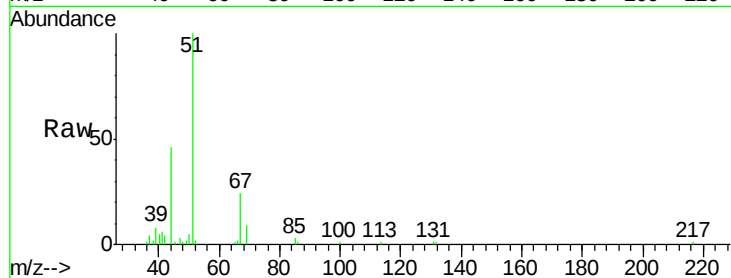
ClientSampleId :

Tot Ion: 51 Resp: 113543

Ion Ratio Lower Upper

51 100

67 21.7 18.6 28.0



#4

Chloromethane

Concen: 0.10 ppbv

RT: 3.78 min Scan# 113

Delta R.T. 0.04 min

Lab File: VL026679.D

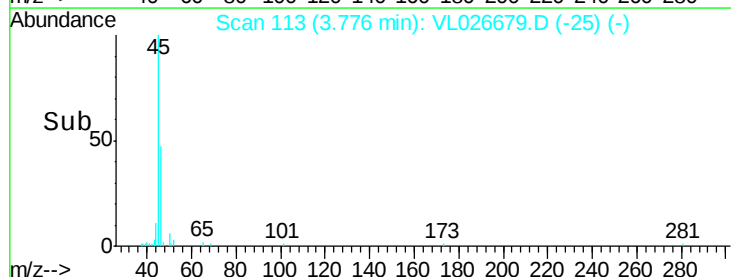
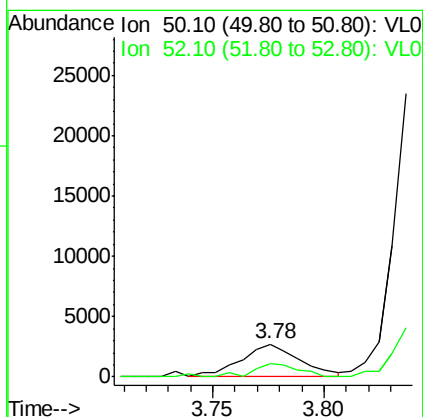
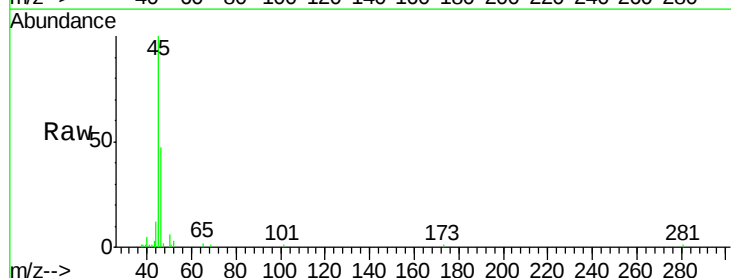
Acq: 12 Jan 2016 17:55

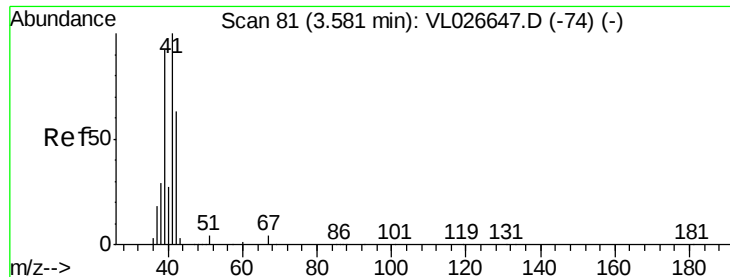
Tgt Ion: 50 Resp: 4904

Ion Ratio Lower Upper

50 100

52 41.7 26.7 40.1#





#9

Propene

Concen: 97.28 ppbv

RT: 3.86 min Scan# 126

Delta R.T. 0.27 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

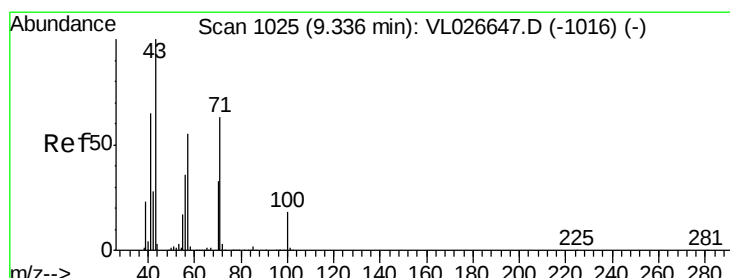
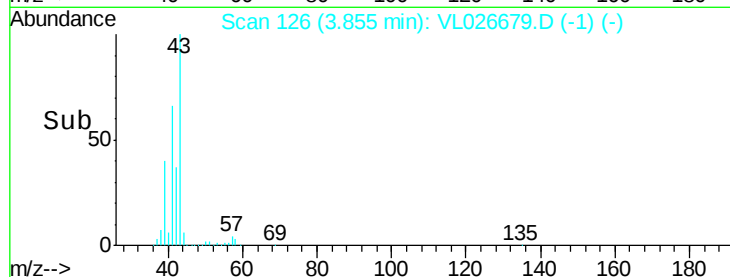
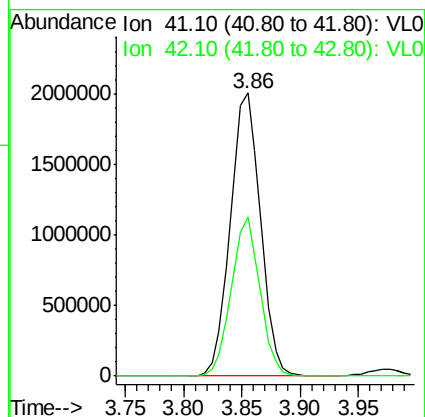
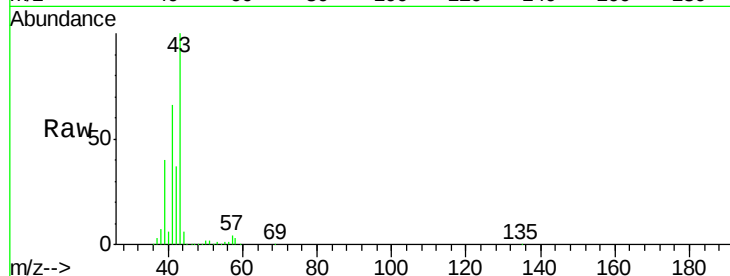
ClientSampleId :

Tot Ion: 41 Resp: 3612885

Ion Ratio Lower Upper

41 100

42 53.8 53.6 80.4



#10

Heptane

Concen: 5.86 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. 0.05 min

Lab File: VL026679.D

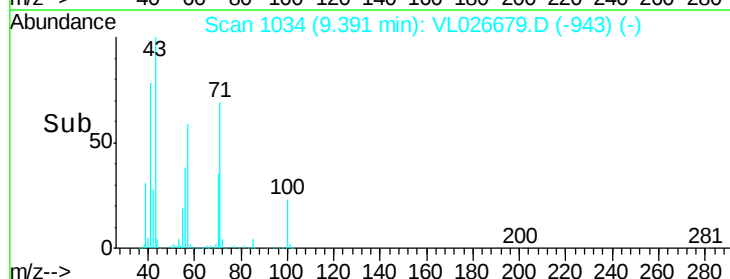
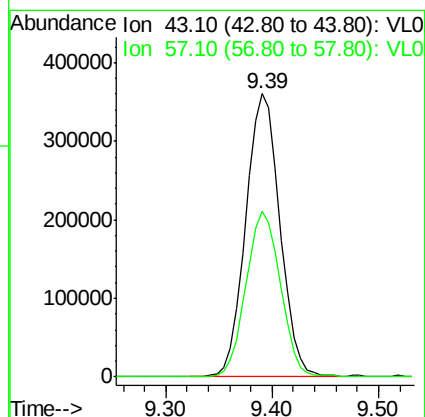
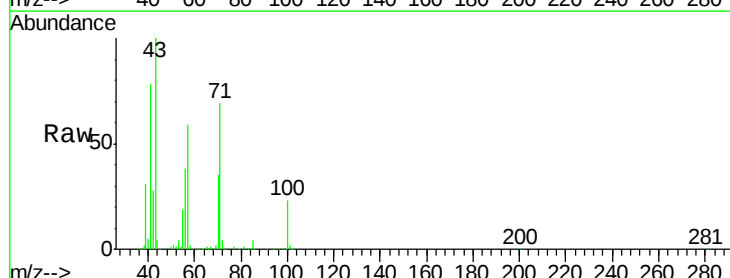
Acq: 12 Jan 2016 17:55

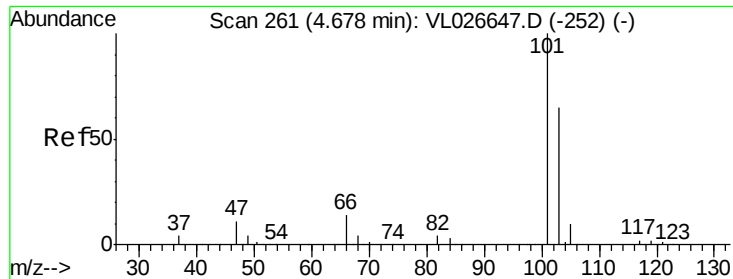
Tgt Ion: 43 Resp: 810464

Ion Ratio Lower Upper

43 100

57 59.7 45.8 68.6





#11

Trichlorofluoromethane

Concen: 0.24 ppbv

RT: 4.73 min Scan# 269

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

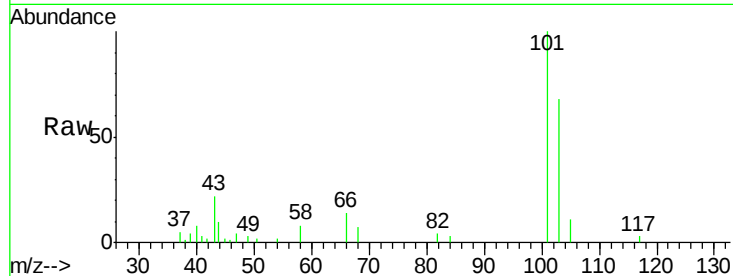
ClientSampleId :

Tot Ion:101 Resp: 50552

Ion Ratio Lower Upper

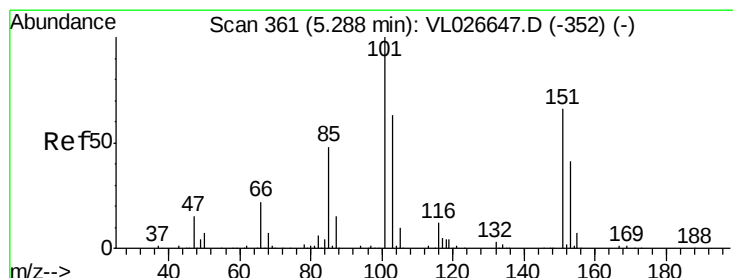
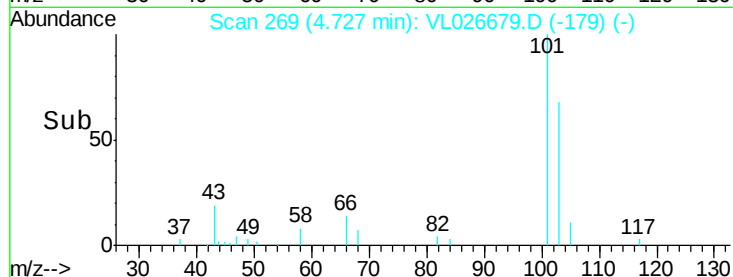
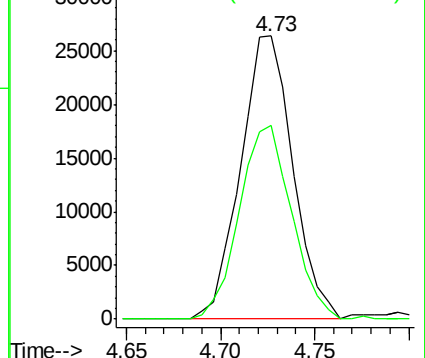
101 100

103 68.3 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.08 ppbv

RT: 5.34 min Scan# 369

Delta R.T. 0.05 min

Lab File: VL026679.D

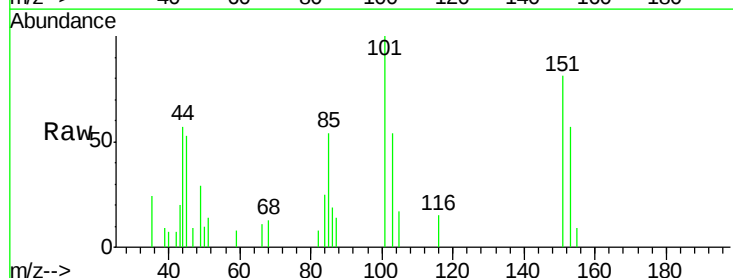
Acq: 12 Jan 2016 17:55

Tgt Ion:101 Resp: 10015

Ion Ratio Lower Upper

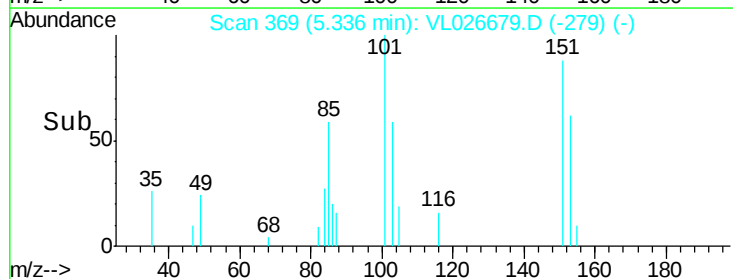
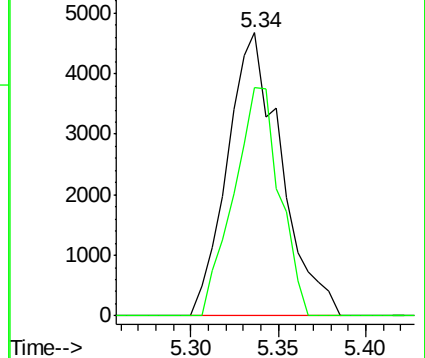
101 100

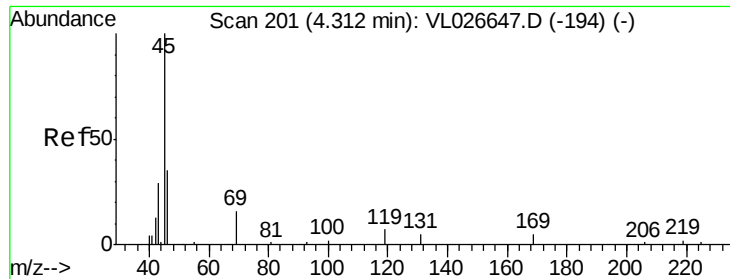
151 68.6 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.45 ppbv

RT: 4.36 min Scan# 209

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

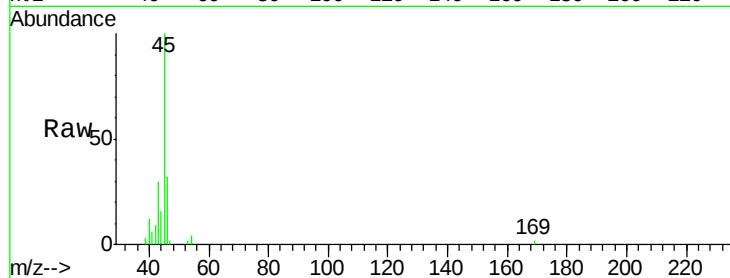
ClientSampled :

Tot Ion: 45 Resp: 52563

Ion Ratio Lower Upper

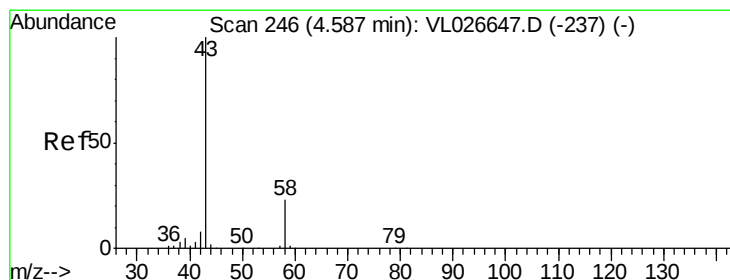
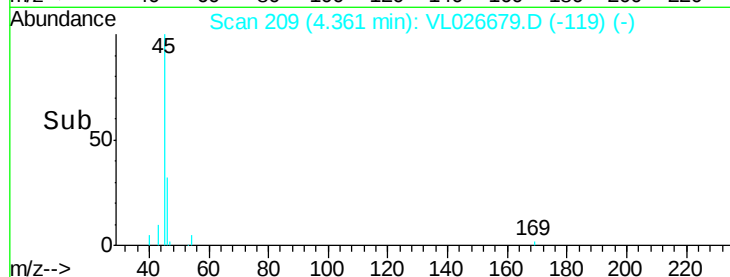
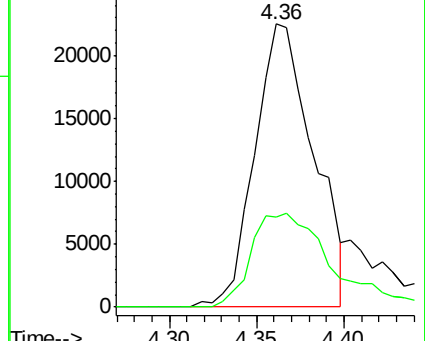
45 100

46 47.1 16.7 66.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 9.85 ppbv

RT: 4.63 min Scan# 253

Delta R.T. 0.04 min

Lab File: VL026679.D

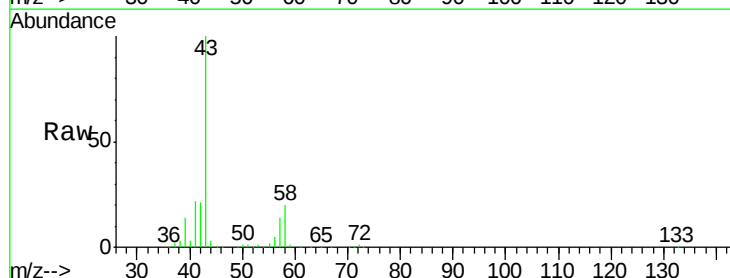
Acq: 12 Jan 2016 17:55

Tgt Ion: 43 Resp: 1257077

Ion Ratio Lower Upper

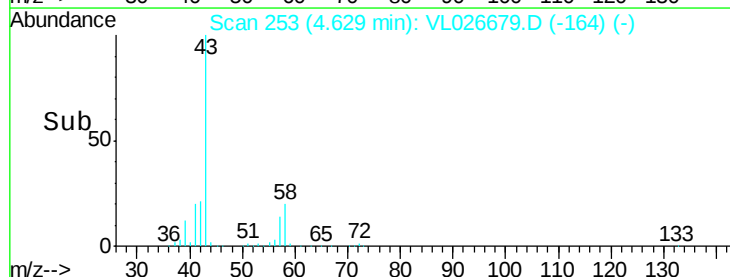
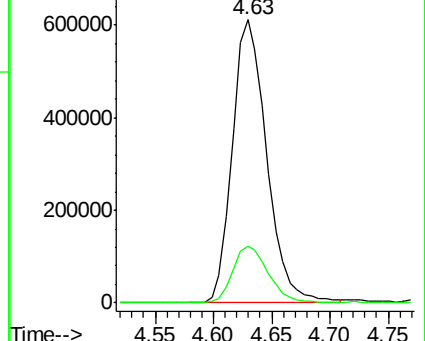
43 100

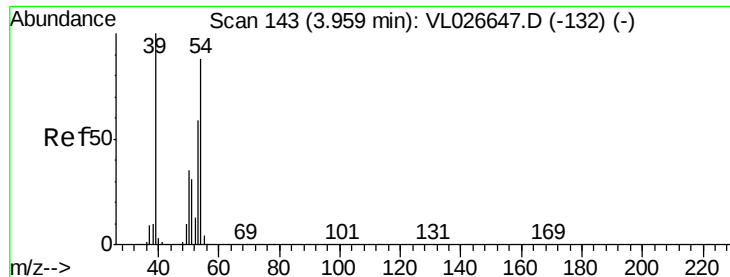
58 21.4 19.2 28.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

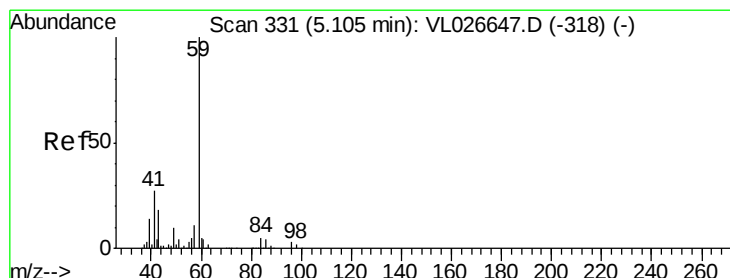
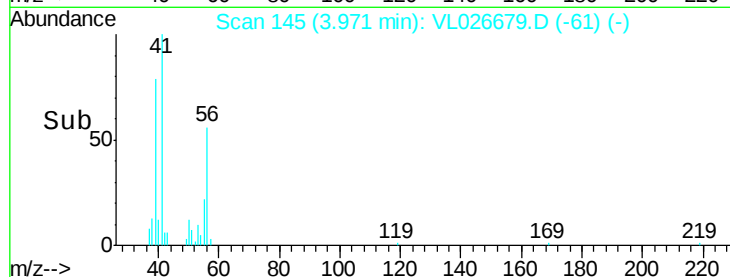
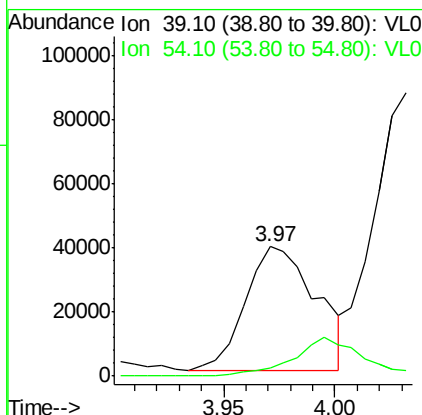
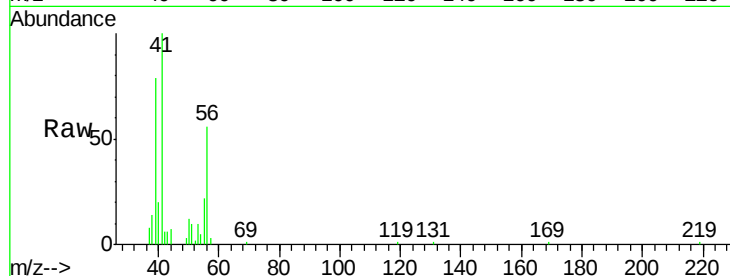




#16
1,3-Butadiene
Concen: 1.68 ppbv
RT: 3.97 min Scan# 145
Delta R.T. 0.01 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

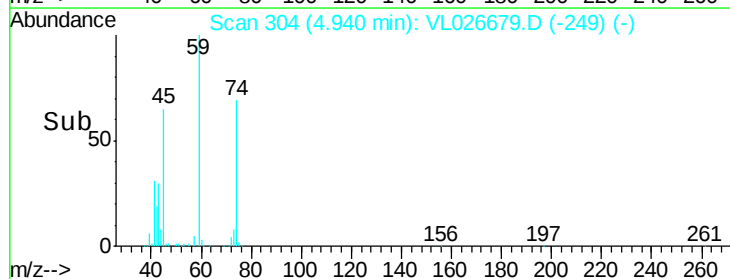
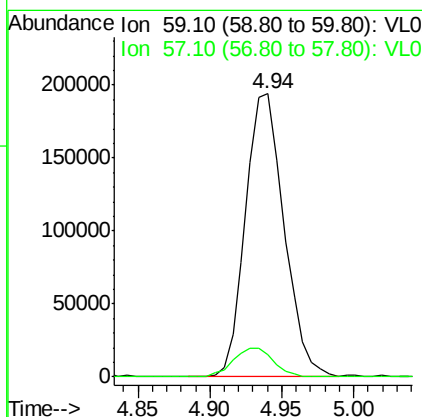
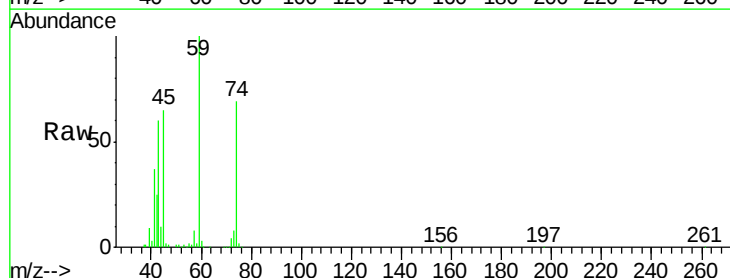
Instrument :
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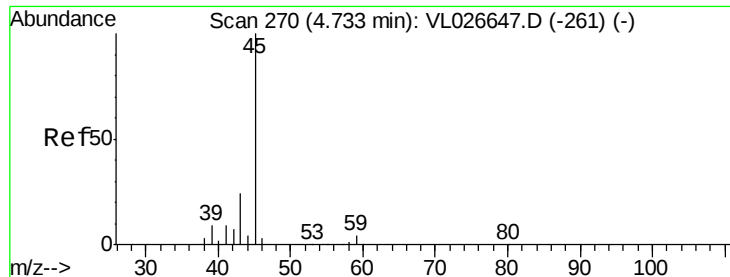
Tot Ion: 39 Resp: 85717
Ion Ratio Lower Upper
39 100
54 31.1 66.6 100.0#



#17
tert-Butyl alcohol
Concen: 3.75 ppbv
RT: 4.94 min Scan# 304
Delta R.T. -0.16 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 59 Resp: 360782
Ion Ratio Lower Upper
59 100
57 10.8 9.0 13.6





#19

Isopropyl Alcohol

Concen: 4.71 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

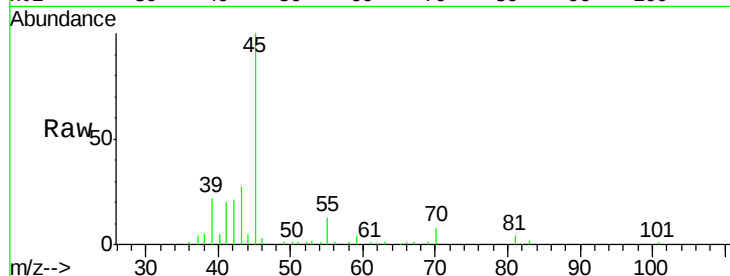
ClientSampleId :

Tot Ion: 45 Resp: 248160

Ion Ratio Lower Upper

45 100

58 108.2 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

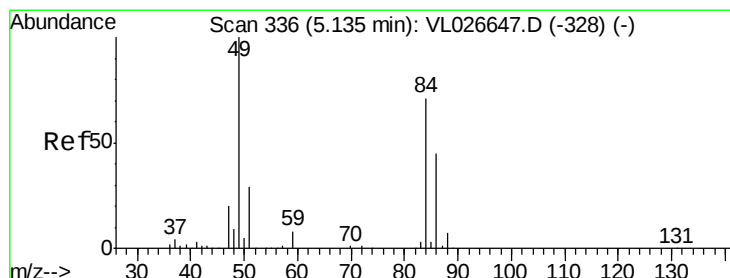
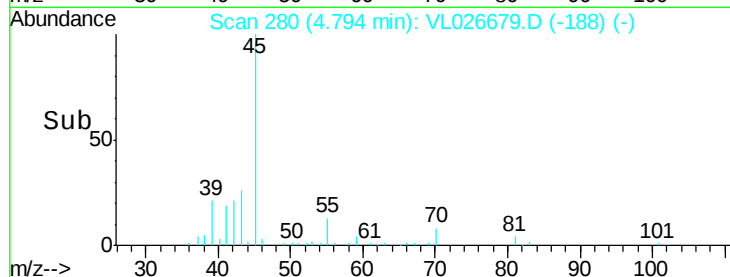
100000

50000

0

4.70 4.80 4.90

Time-->



#20

Methylene Chloride

Concen: 21.30 ppbv

RT: 5.18 min Scan# 343

Delta R.T. 0.04 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Tgt Ion: 84 Resp: 1115408

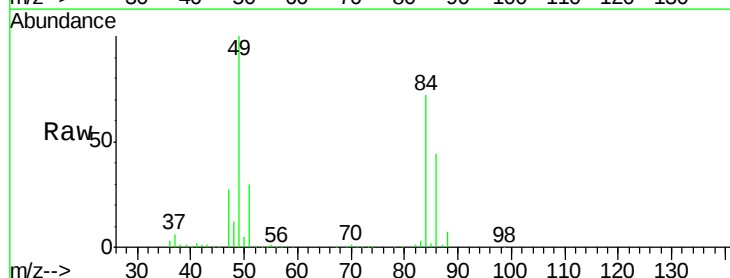
Ion Ratio Lower Upper

84 100

49 138.5 112.3 168.5

51 41.9 32.5 48.7

86 61.6 50.3 75.5



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

1000000

800000

600000

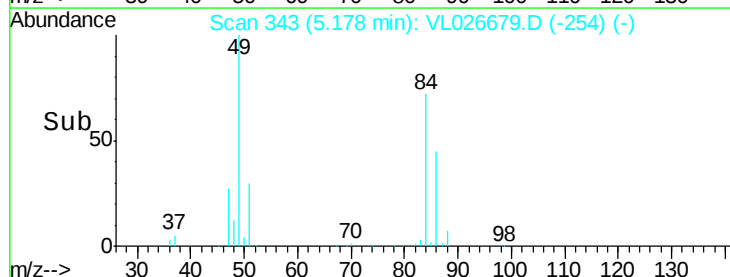
400000

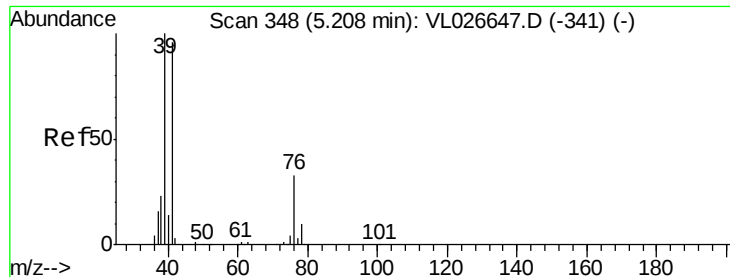
200000

0

5.10 5.15 5.20 5.25

Time-->

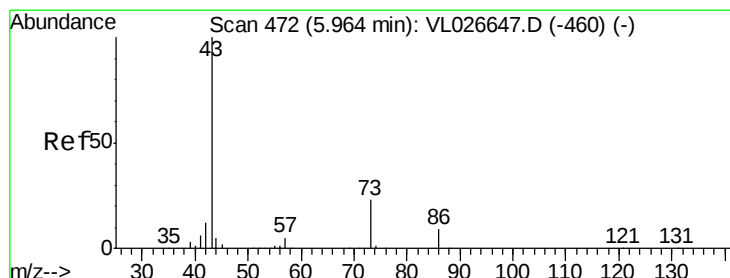
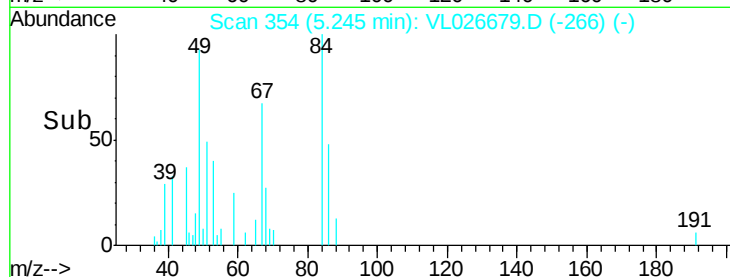
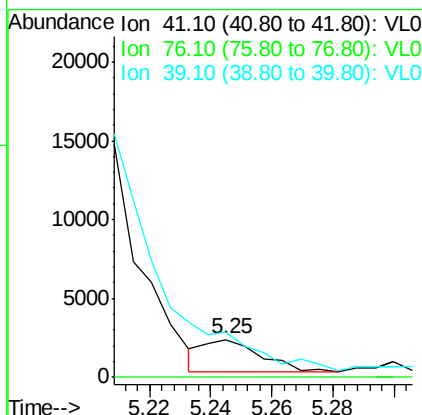
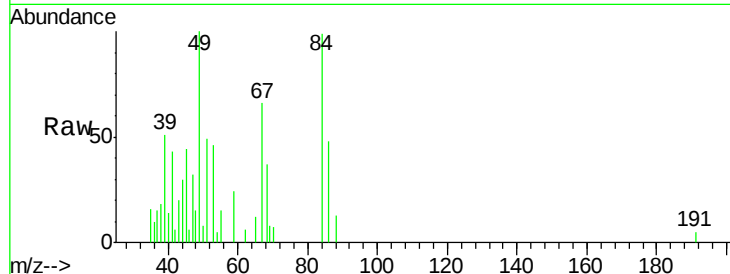




#21
Allvl Chloride
Concen: 0.03 ppbv
RT: 5.25 min Scan# 354
Delta R.T. 0.04 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

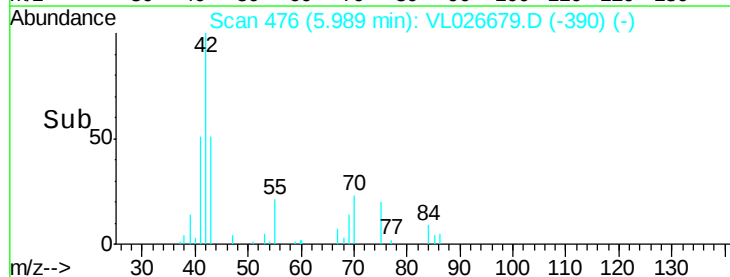
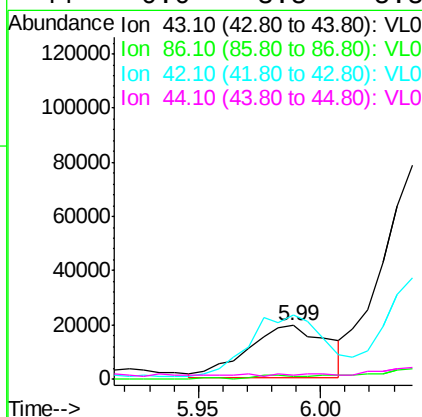
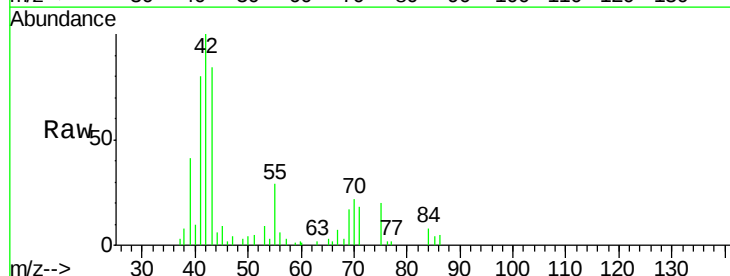
Instrument :
MSVOA_L
ClientSampleId :

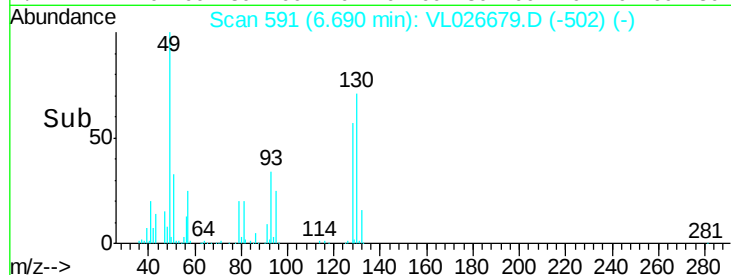
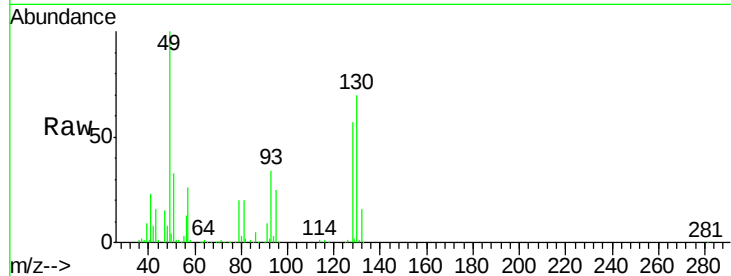
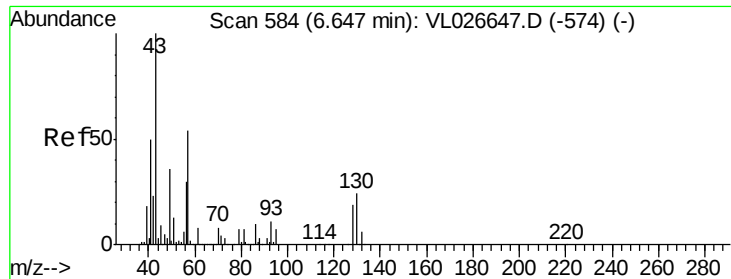
Tot Ion: 41 Resp: 2699
Ion Ratio Lower Upper
41 100
76 0.0 27.5 41.3#
39 0.0 83.0 124.6#



#23
Vinyl Acetate
Concen: 0.22 ppbv
RT: 5.99 min Scan# 476
Delta R.T. 0.02 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 43 Resp: 43456
Ion Ratio Lower Upper
43 100
86 6.2 7.4 11.0#
42 126.0 9.2 13.8#
44 0.0 3.8 5.8#

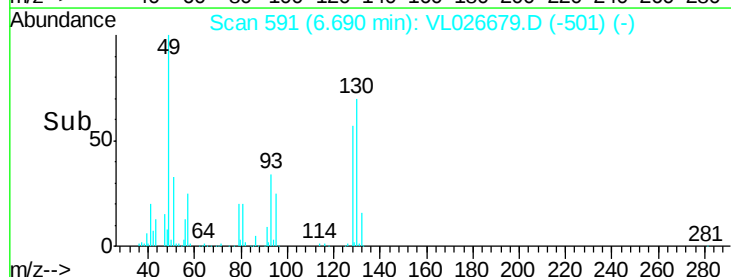
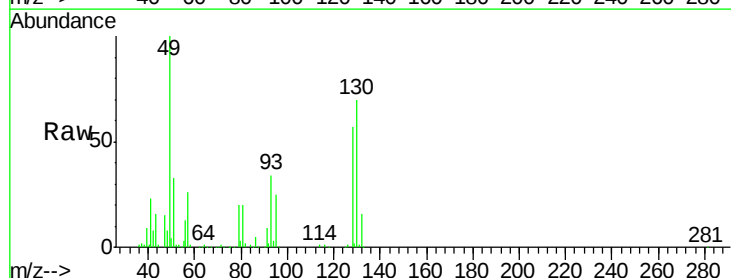
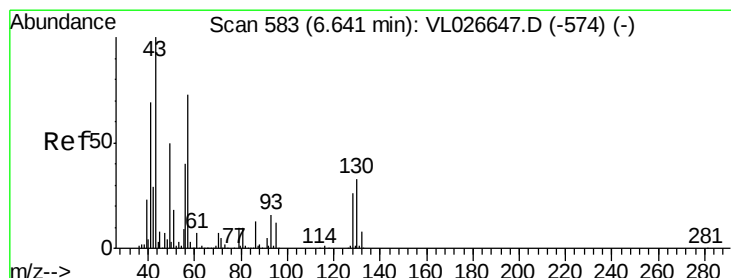
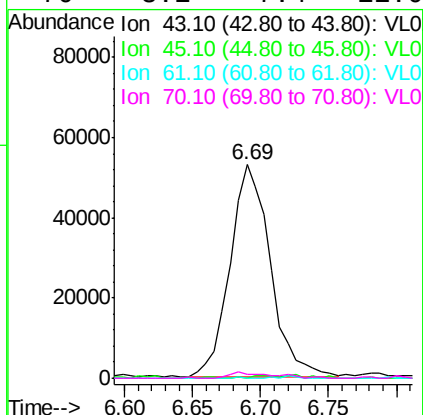




#25
Ethyl Acetate
Concen: 0.56 ppbv
RT: 6.69 min Scan# 591
Delta R.T. 0.04 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

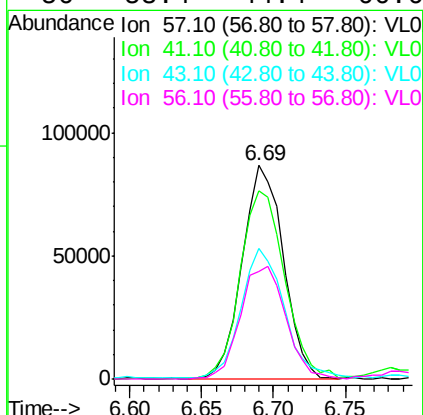
Instrument :
MSVOA_L
ClientSampleId :

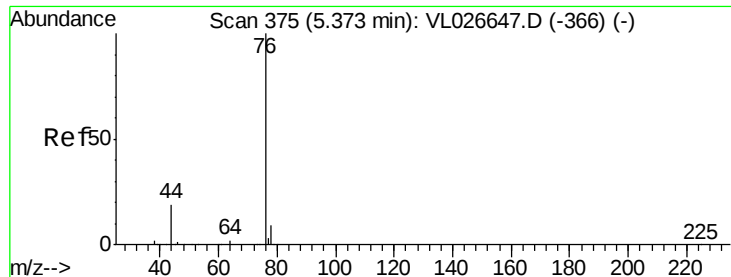
Tot Ion:	43	Resp:	109784
Ion	Ratio	Lower	Upper
43	100		
45	1.7	7.5	11.3#
61	0.1	7.3	10.9#
70	3.1	7.4	11.0#



#26
Hexane
Concen: 1.68 ppbv
RT: 6.69 min Scan# 591
Delta R.T. 0.05 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion:	57	Resp:	171575
Ion	Ratio	Lower	Upper
57	100		
41	96.6	74.8	112.2
43	63.6	161.5	242.3#
56	58.4	44.4	66.6





#27

Carbon Disulfide

Concen: 0.54 ppbv

RT: 5.42 min Scan# 383

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

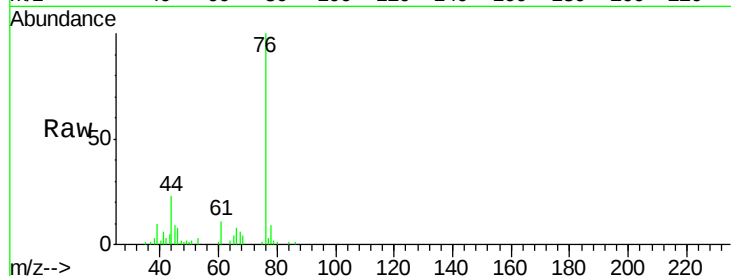
Tot Ion: 76 Resp: 81020

Ion Ratio Lower Upper

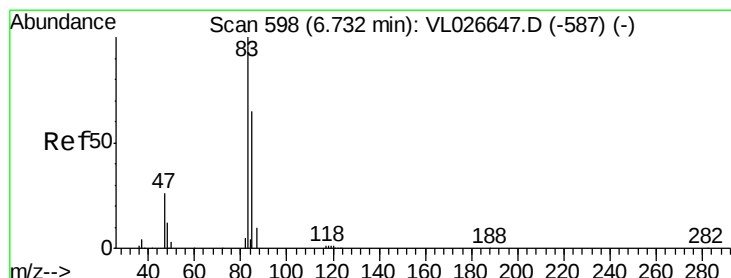
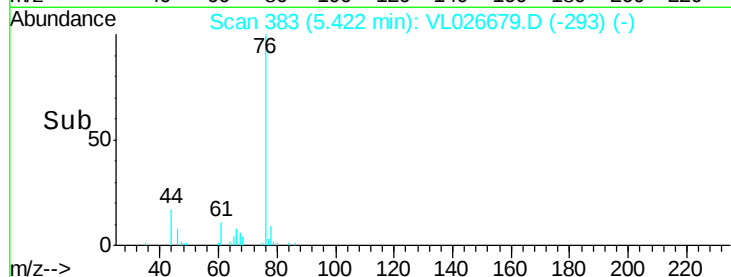
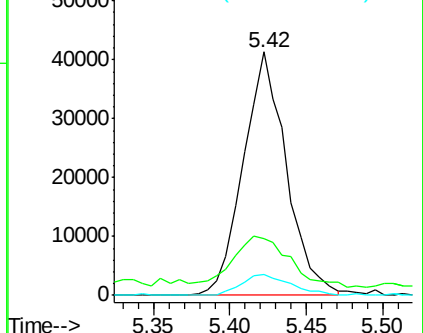
76 100

44 31.7 15.9 23.9#

78 9.8 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.08 ppbv

RT: 6.78 min Scan# 606

Delta R.T. 0.05 min

Lab File: VL026679.D

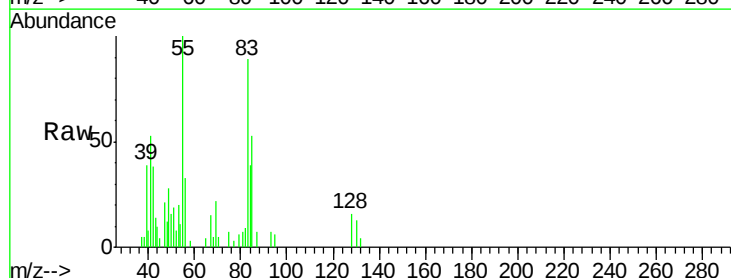
Acq: 12 Jan 2016 17:55

Tgt Ion: 83 Resp: 15193

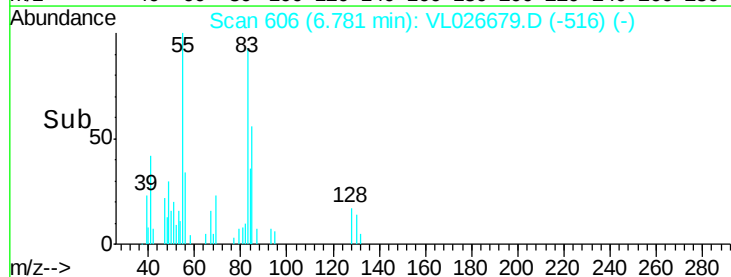
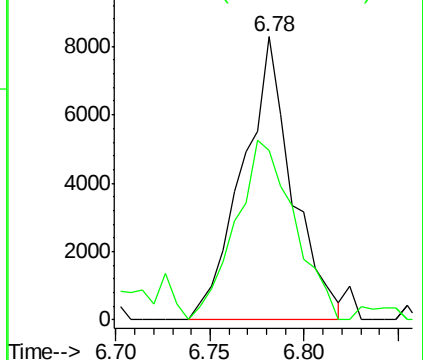
Ion Ratio Lower Upper

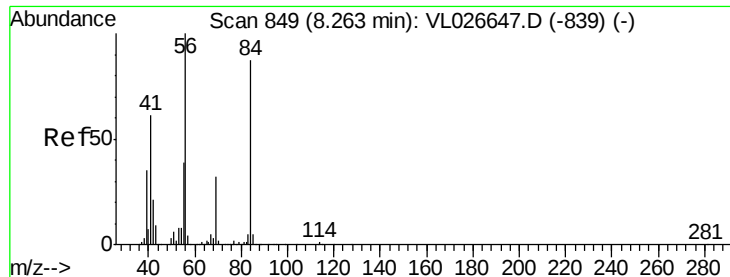
83 100

85 59.8 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





#30

Cvclohexane

Concen: 0.46 ppbv

RT: 8.32 min Scan# 859

Delta R.T. 0.06 min

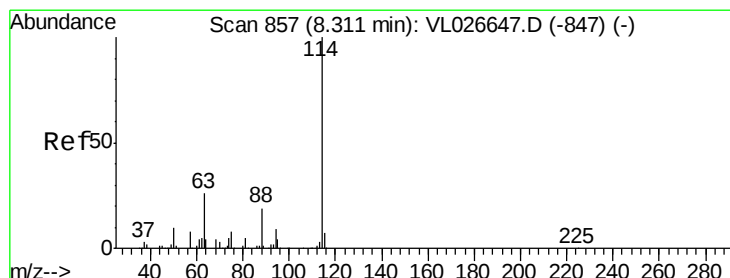
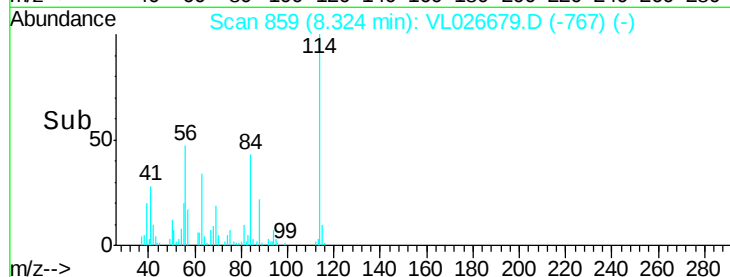
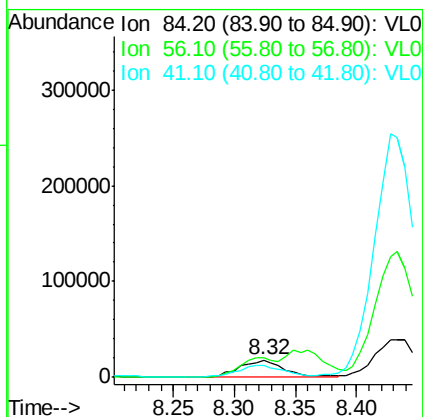
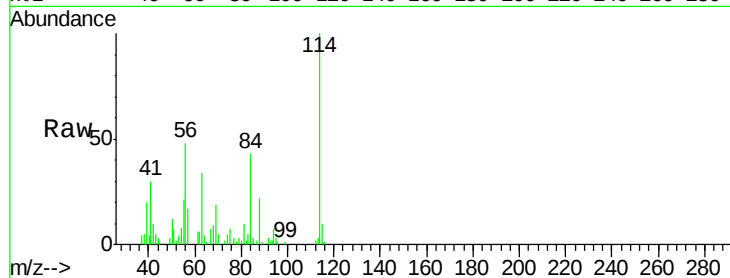
Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 46700

Ion	Ratio	Lower	Upper
84	100		
56	224.8	95.9	143.9#
41	71.9	54.8	82.2



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.36 min Scan# 865

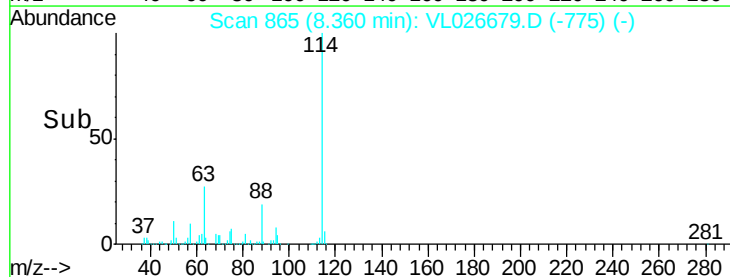
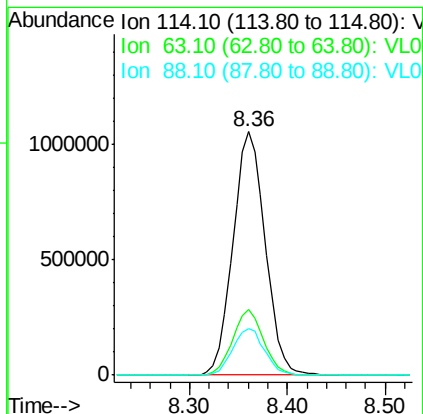
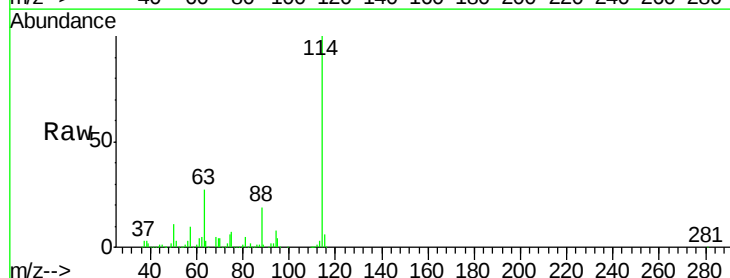
Delta R.T. 0.05 min

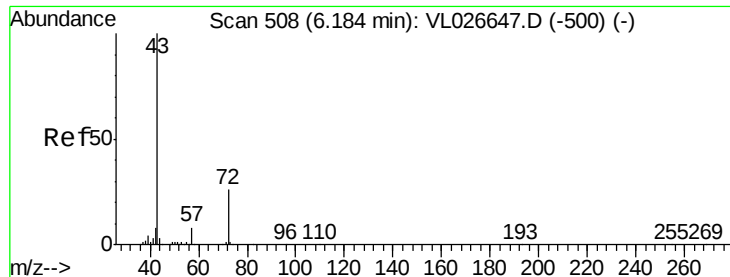
Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Tgt Ion:114 Resp: 2404842

Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.7	32.5
88	19.0	15.2	22.8

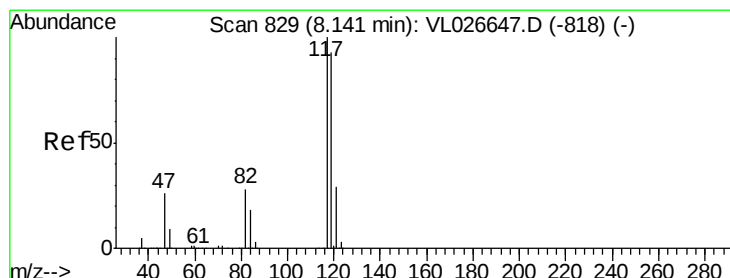
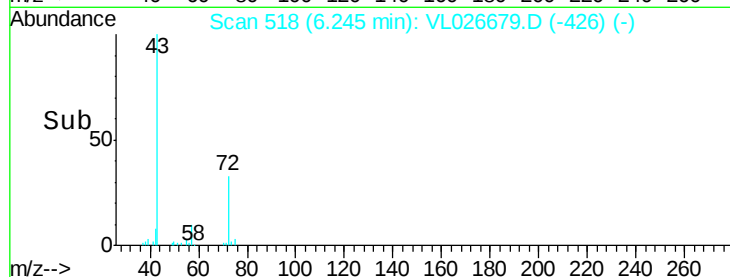
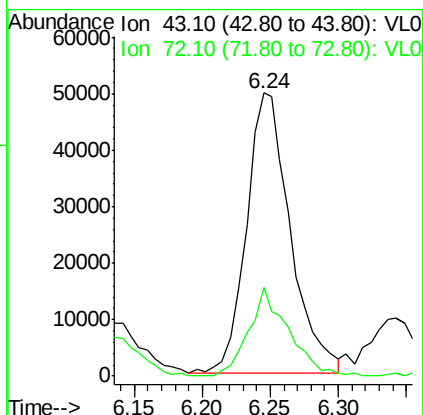
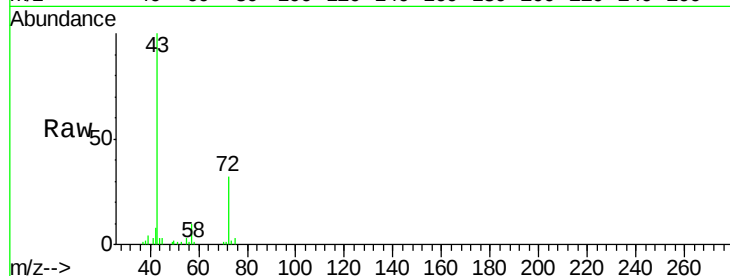




#34
2-Butanone
Concen: 0.87 ppbv
RT: 6.24 min Scan# 518
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

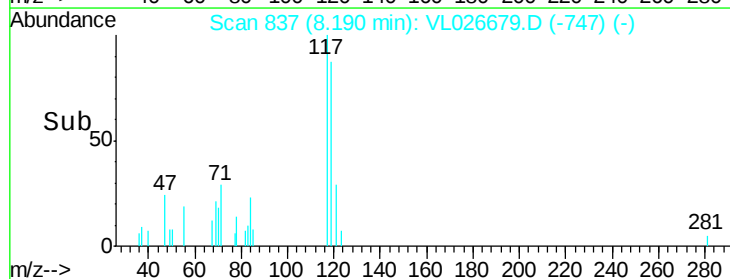
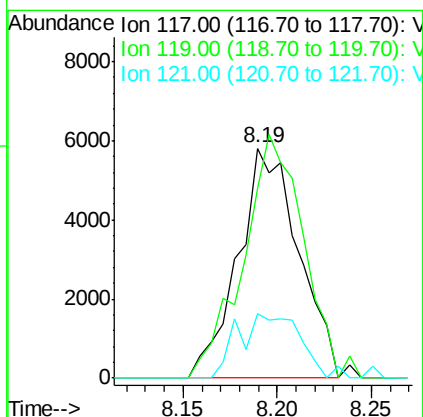
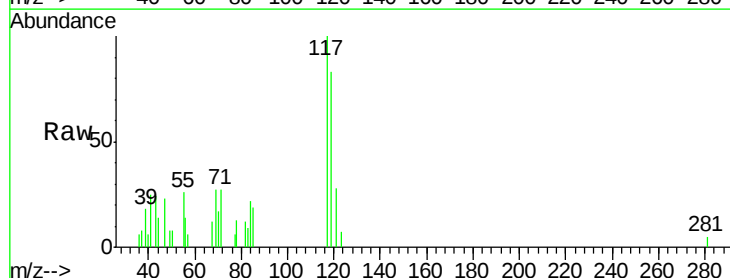
Instrument :
MSVOA_L
ClientSampleId :

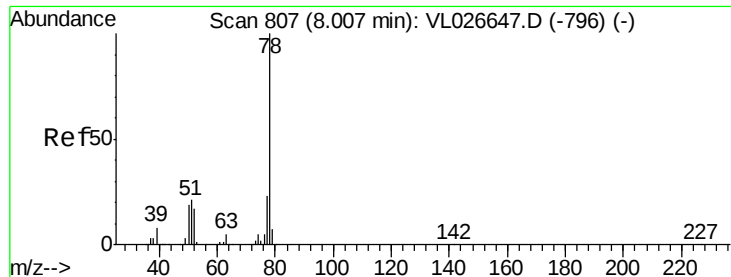
Tot Ion: 43 Resp: 111713
Ion Ratio Lower Upper
43 100
72 28.7 20.9 31.3



#35
Carbon Tetrachloride
Concen: 0.06 ppbv
RT: 8.19 min Scan# 837
Delta R.T. 0.05 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 117 Resp: 12973
Ion Ratio Lower Upper
117 100
119 82.5 74.7 112.1
121 27.8 23.1 34.7

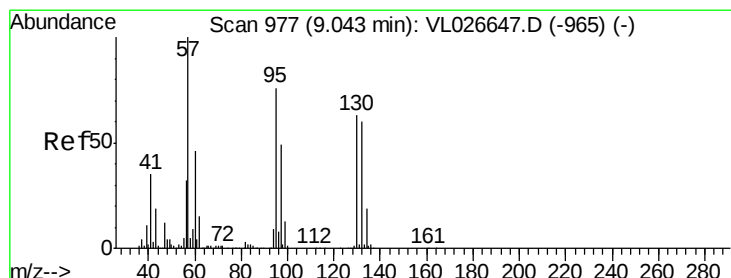
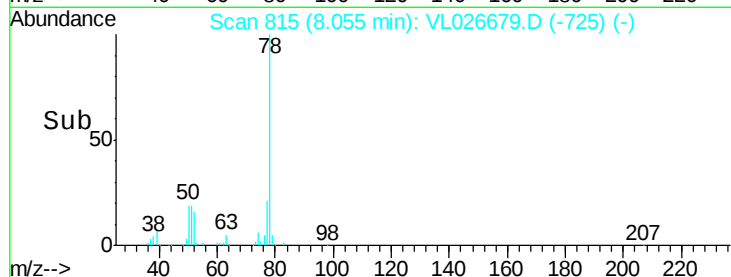
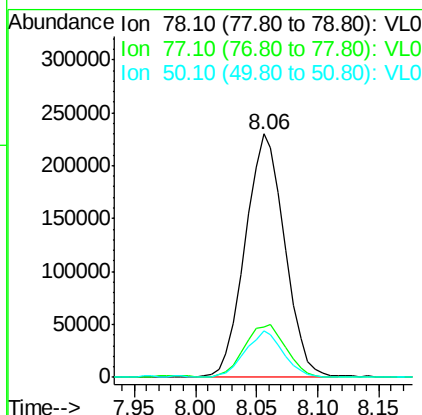
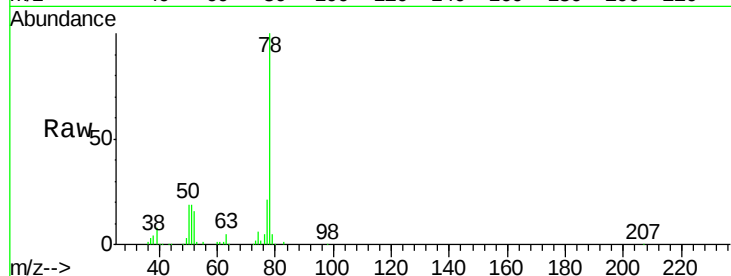




#36
Benzene
Concen: 2.08 ppbv
RT: 8.06 min Scan# 815
Delta R.T. 0.05 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

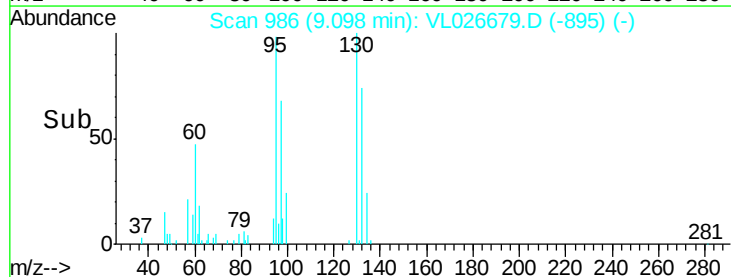
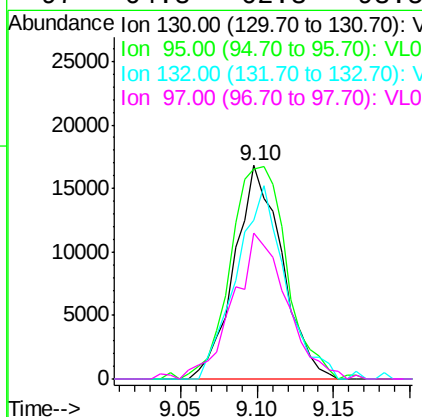
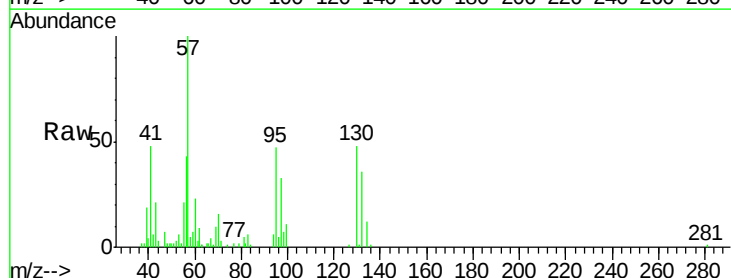
Instrument :
MSVOA_L
ClientSampleId :

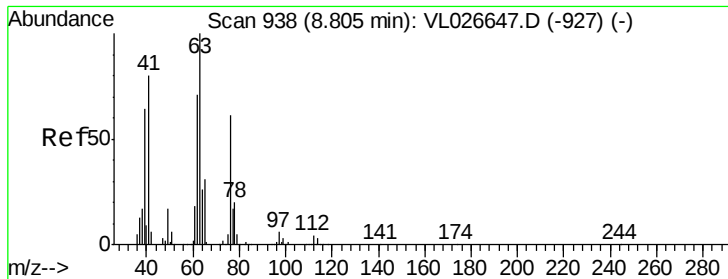
Tot Ion: 78 Resp: 515338
Ion Ratio Lower Upper
78 100
77 20.6 18.5 27.7
50 18.9 15.4 23.2



#38
Trichloroethene
Concen: 0.33 ppbv
RT: 9.10 min Scan# 986
Delta R.T. 0.05 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 130 Resp: 36499
Ion Ratio Lower Upper
130 100
95 98.0 96.6 145.0
132 74.5 76.2 114.4#
97 64.8 62.3 93.5

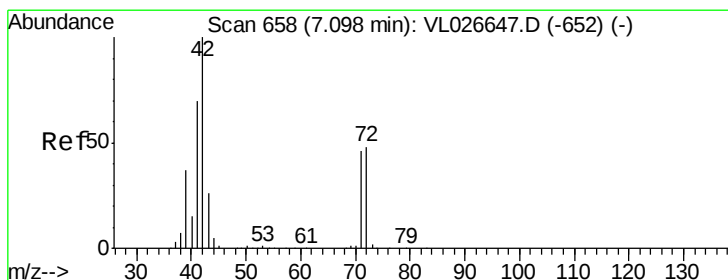
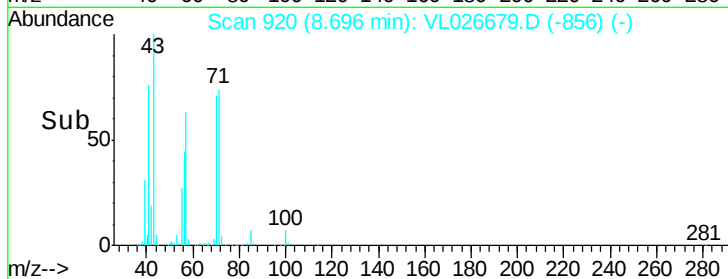
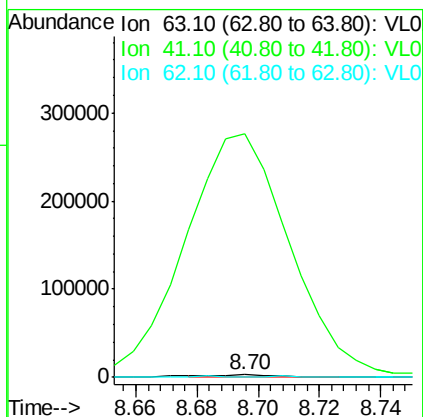
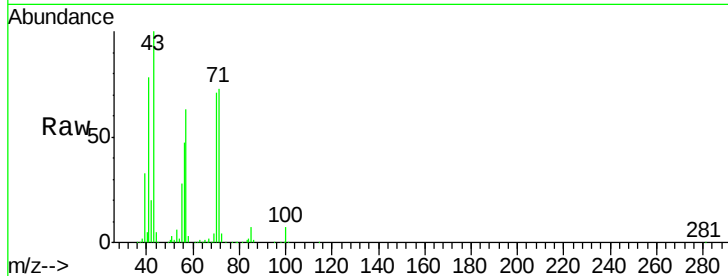




#39
 1,2-Dichloropropane
 Concen: 0.05 ppbv
 RT: 8.70 min Scan# 920
 Delta R.T. -0.11 min
 Lab File: VL026679.D
 Acq: 12 Jan 2016 17:55

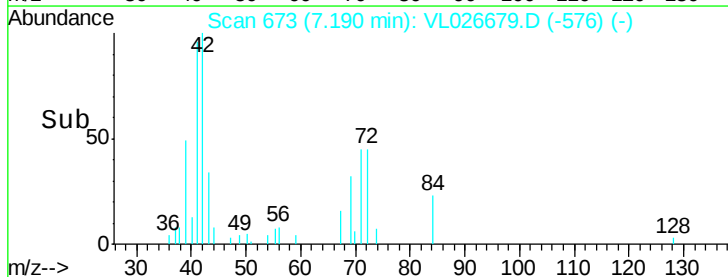
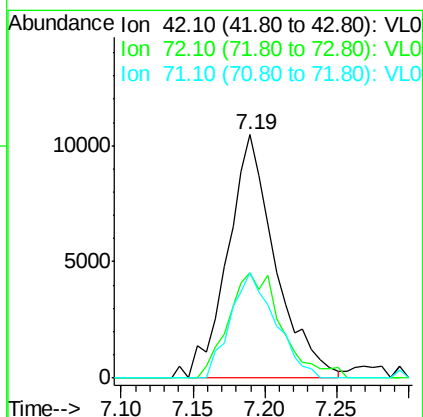
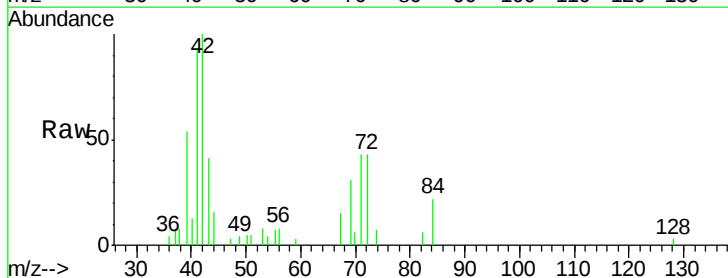
Instrument :
 MSVOA_L
 ClientSampleId :

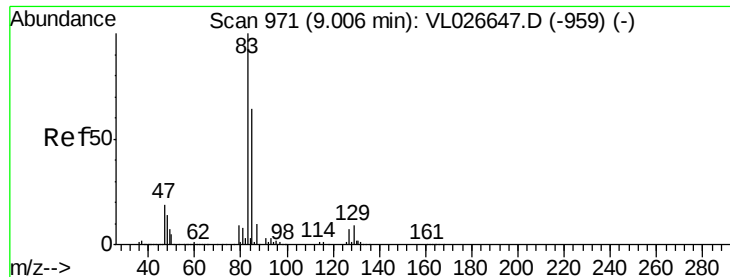
Tot Ion: 63 Resp: 4347
 Ion Ratio Lower Upper
 63 100
 41 8981.5 64.1 96.1#
 62 11.8 56.6 84.8#



#41
 Tetrahydrofuran
 Concen: 0.38 ppbv
 RT: 7.19 min Scan# 673
 Delta R.T. 0.09 min
 Lab File: VL026679.D
 Acq: 12 Jan 2016 17:55

Tgt Ion: 42 Resp: 24034
 Ion Ratio Lower Upper
 42 100
 72 48.3 40.6 60.8
 71 40.8 38.4 57.6





#42

Bromodichloromethane

Concen: 0.12 ppbv

RT: 9.04 min Scan# 977

Delta R.T. 0.04 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

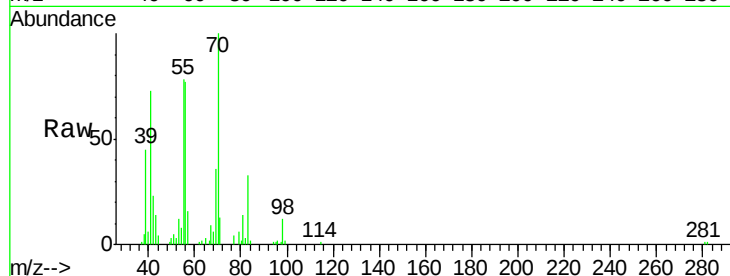
Tot Ion: 83 Resp: 27258

Ion Ratio Lower Upper

83 100

85 0.0 50.9 76.3#

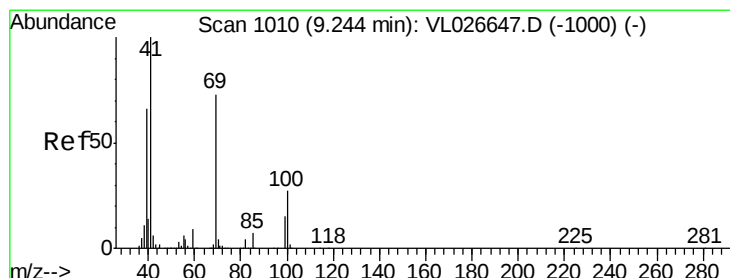
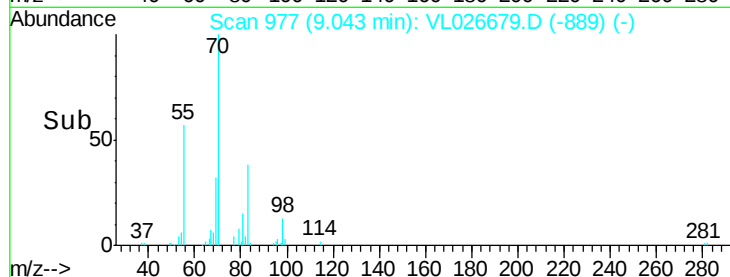
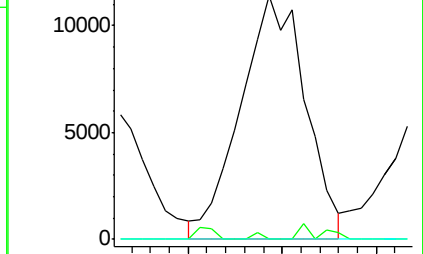
127 0.0 5.5 8.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.05 ppbv

RT: 9.31 min Scan# 1021

Delta R.T. 0.07 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

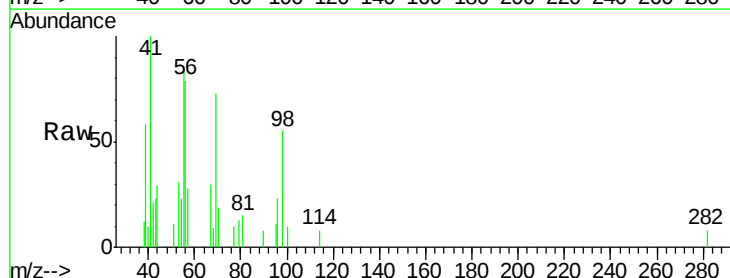
Tgt Ion: 69 Resp: 4192

Ion Ratio Lower Upper

69 100

41 0.0 106.1 159.1#

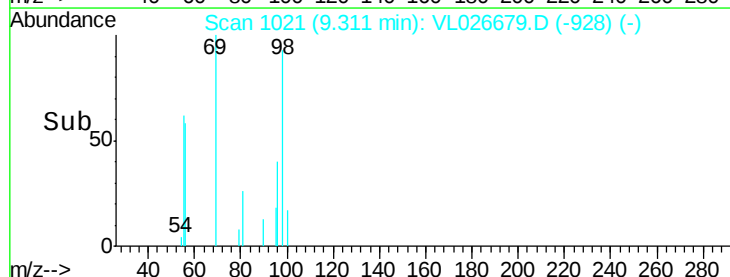
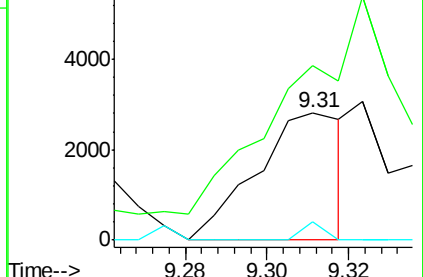
100 0.0 29.0 43.4#

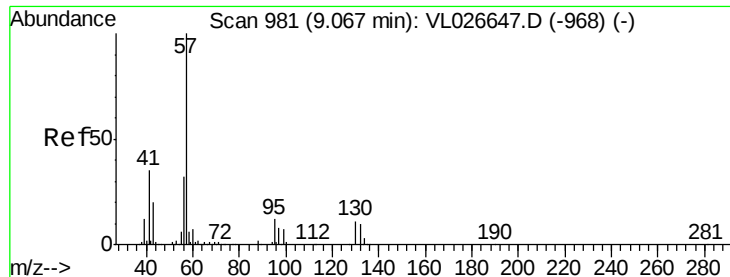


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.75 ppbv

RT: 9.12 min Scan# 990

Delta R.T. 0.05 min

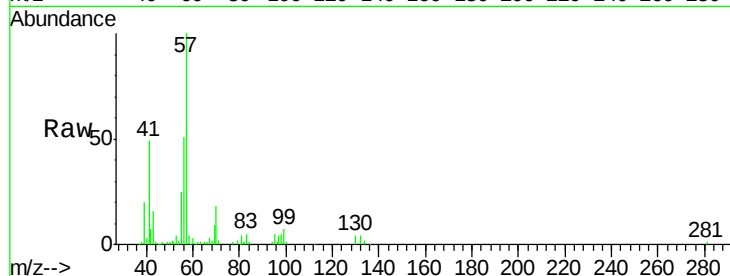
Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

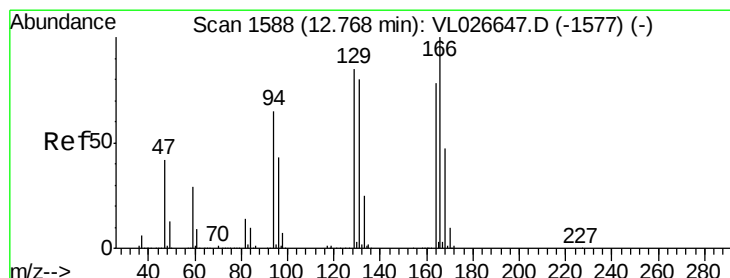
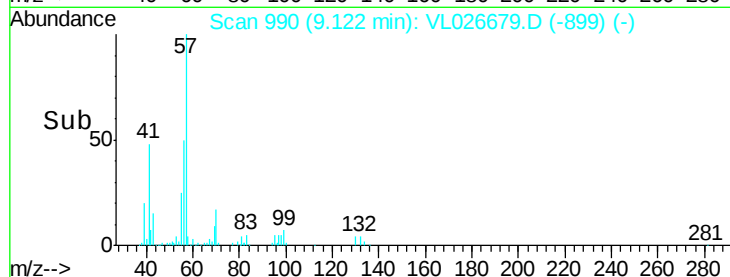
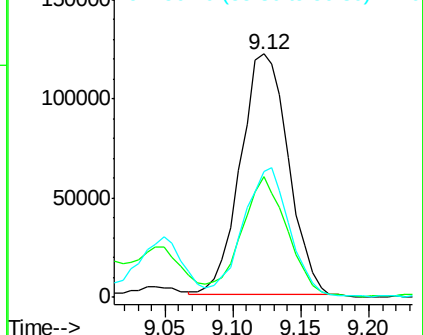
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 299306

Ion	Ratio	Lower	Upper
57	100		
41	47.9	26.9	40.3#
56	52.6	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



#52

Tetrachloroethene

Concen: 0.15 ppbv

RT: 12.83 min Scan# 1598

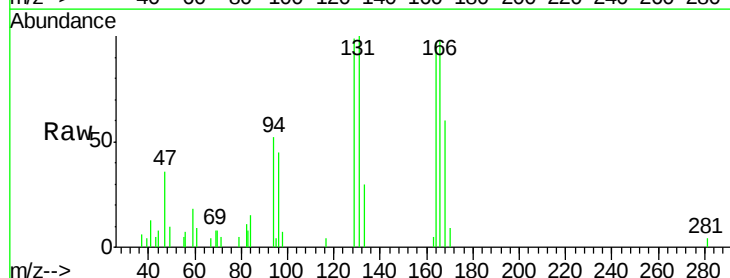
Delta R.T. 0.06 min

Lab File: VL026679.D

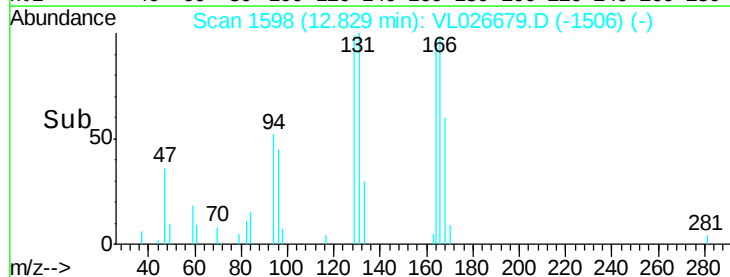
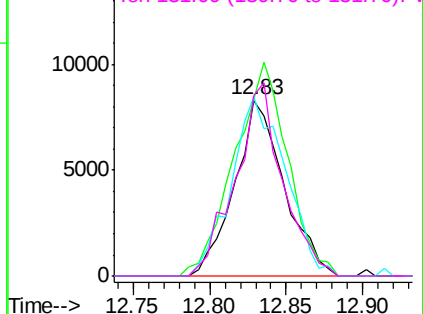
Acq: 12 Jan 2016 17:55

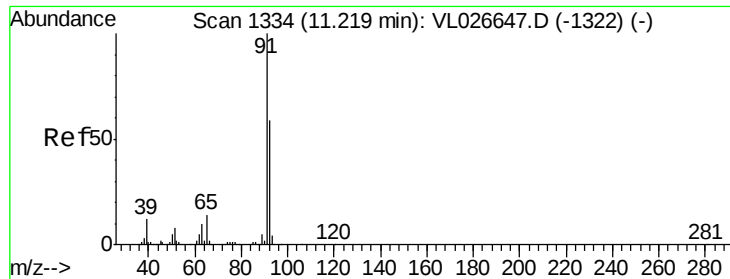
Tgt Ion:164 Resp: 18756

Ion	Ratio	Lower	Upper
164	100		
166	100.4	102.5	153.7#
129	101.8	87.0	130.6
131	103.0	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: 6.10 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

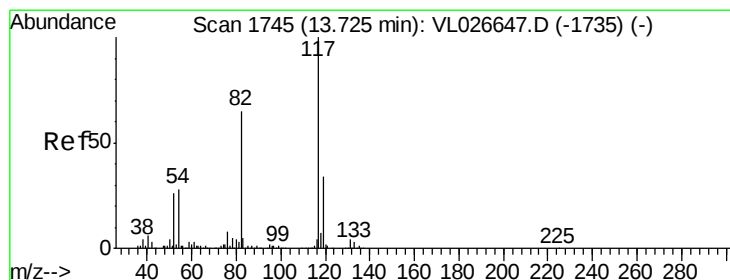
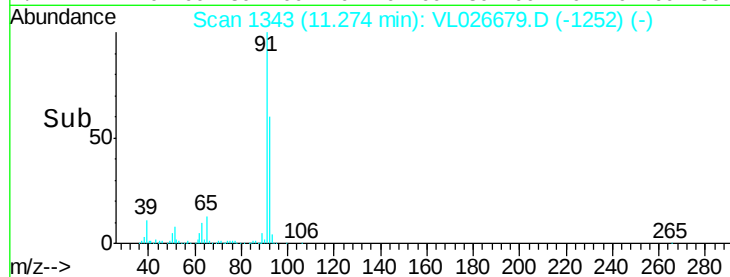
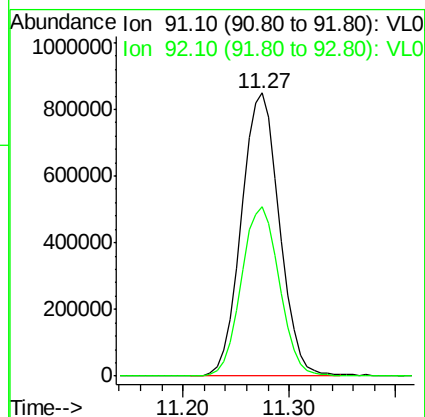
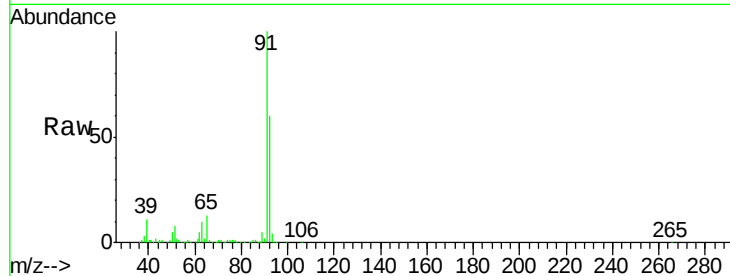
ClientSampleId :

Tot Ion: 91 Resp: 2128298

Ion Ratio Lower Upper

91 100

92 60.5 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

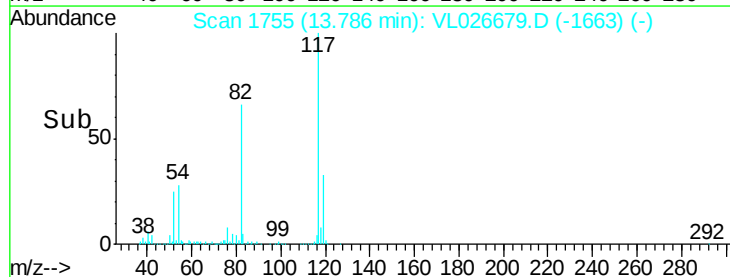
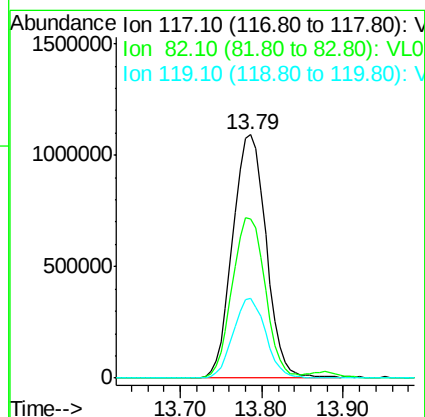
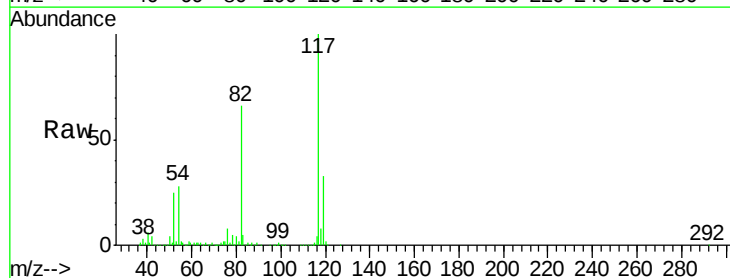
Tgt Ion: 117 Resp: 3116877

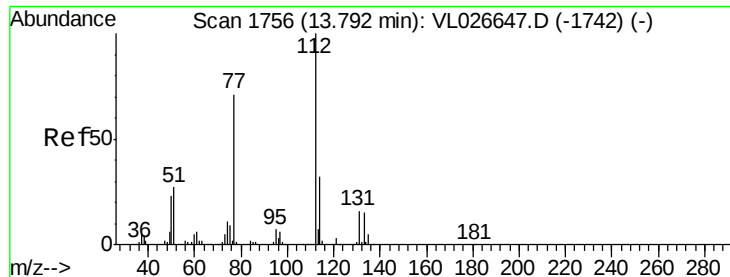
Ion Ratio Lower Upper

117 100

82 65.3 49.7 74.5

119 32.0 43.8 65.8#





#57

Chlorobenzene

Concen: 0.09 ppbv

RT: 13.88 min Scan# 1770

Delta R.T. 0.09 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampleId :

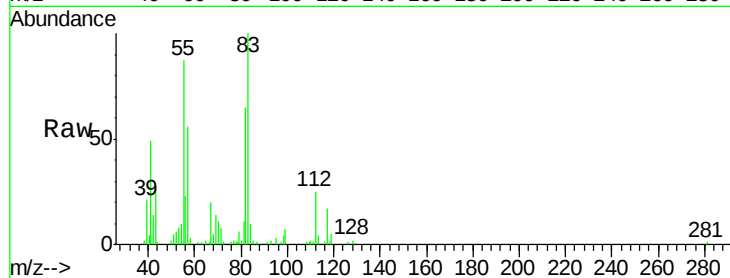
Tot Ion:112 Resp: 28388

Ion Ratio Lower Upper

112 100

77 5.8 56.9 85.3#

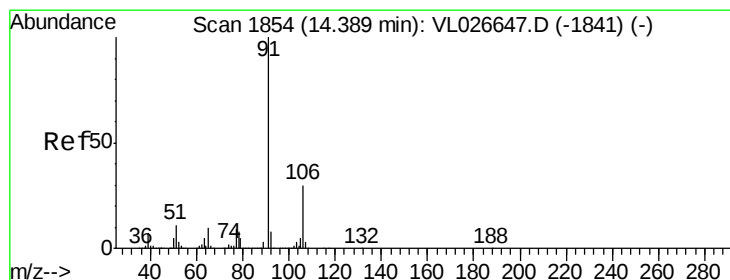
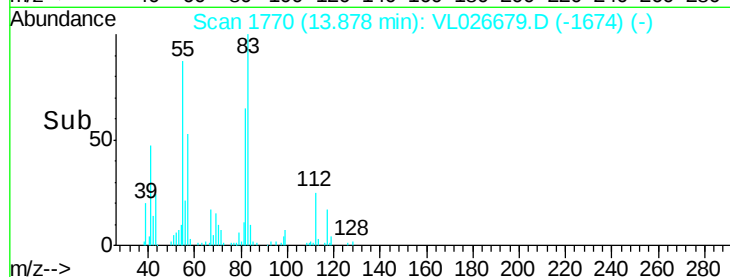
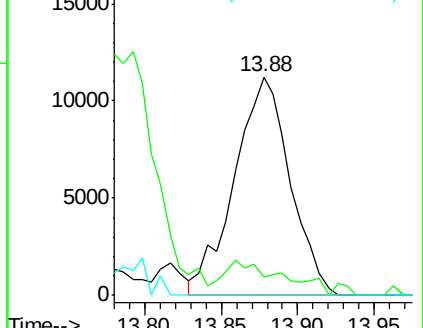
114 0.0 28.8 35.2#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.07 ppbv

RT: 14.45 min Scan# 1864

Delta R.T. 0.06 min

Lab File: VL026679.D

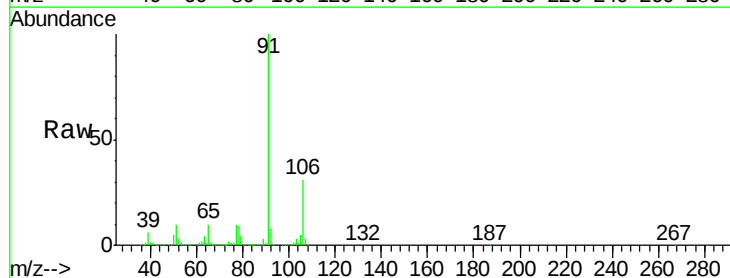
Acq: 12 Jan 2016 17:55

Tgt Ion: 91 Resp: 4492798

Ion Ratio Lower Upper

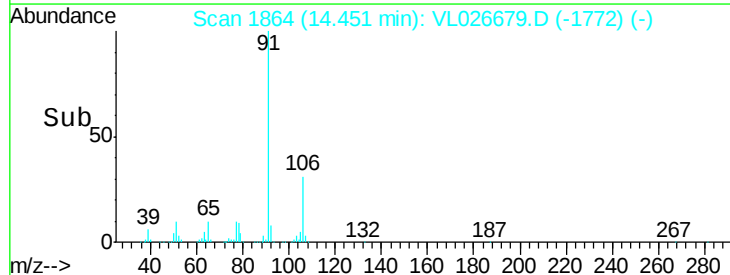
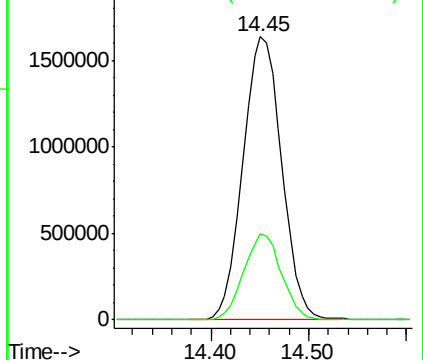
91 100

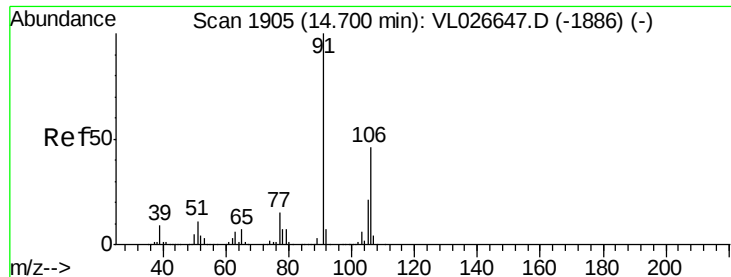
106 30.7 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

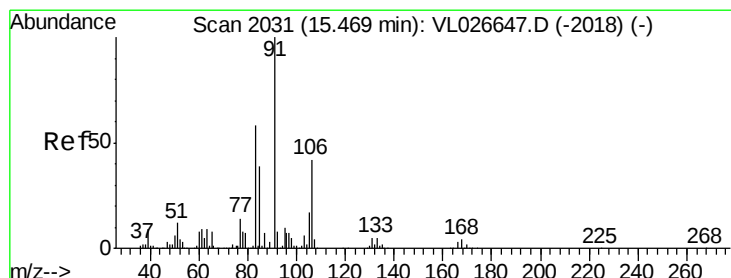
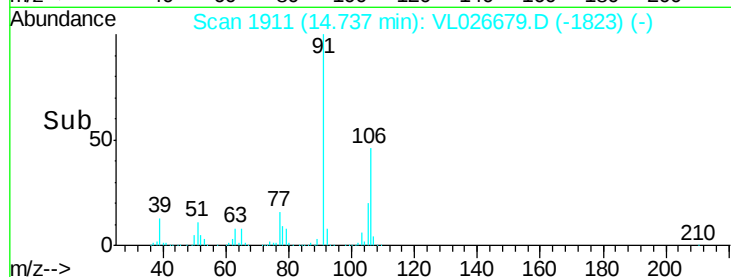
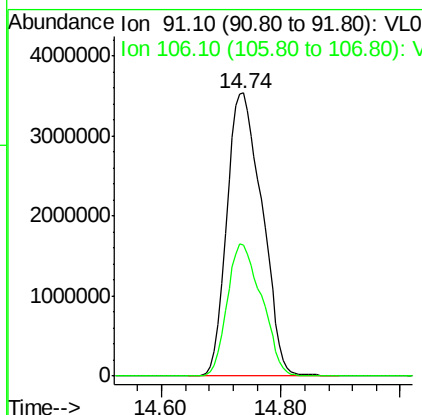
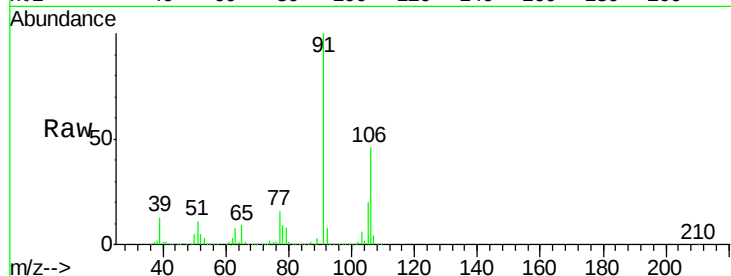




#59
m/p-Xylene
Concen: 31.62 ppbv
RT: 14.74 min Scan# 1911
Delta R.T. 0.04 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

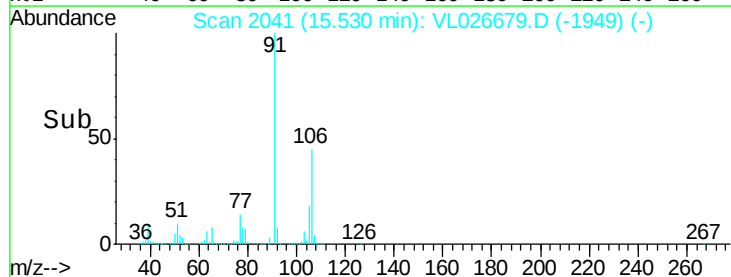
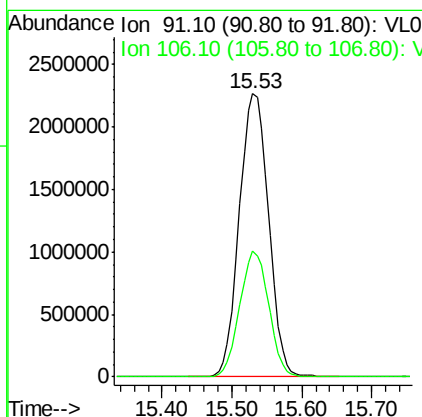
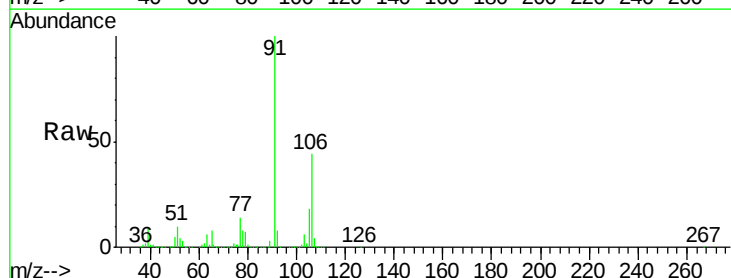
Instrument :
MSVOA_L
ClientSampleId :

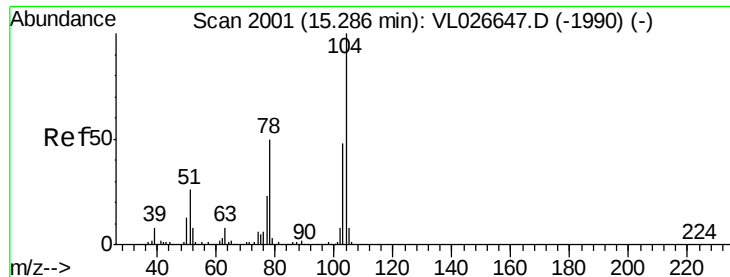
Tot Ion: 91 Resp:14510407
Ion Ratio Lower Upper
91 100
106 46.1 36.6 55.0



#60
o-Xylene
Concen: 13.34 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 91 Resp: 6614940
Ion Ratio Lower Upper
91 100
106 44.0 21.5 64.5

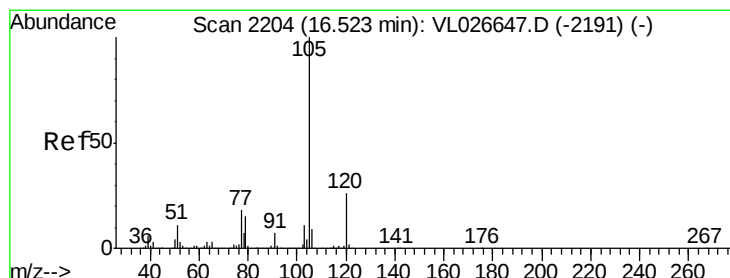
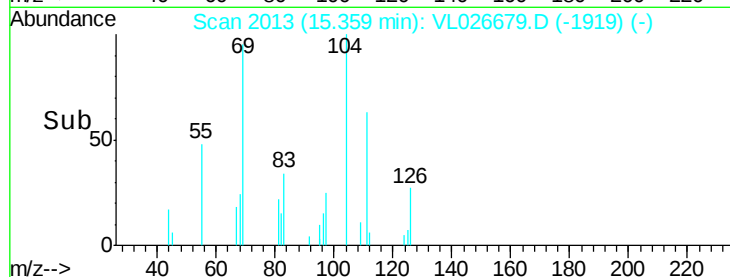
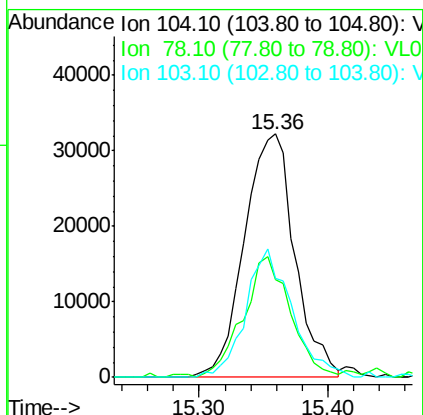
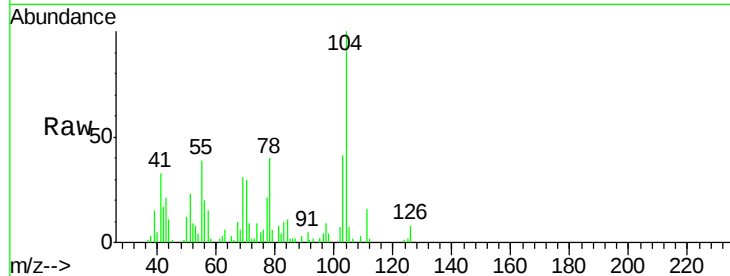




#61
Stvrene
Concen: 0.45 ppbv
RT: 15.36 min Scan# 2013
Delta R.T. 0.07 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

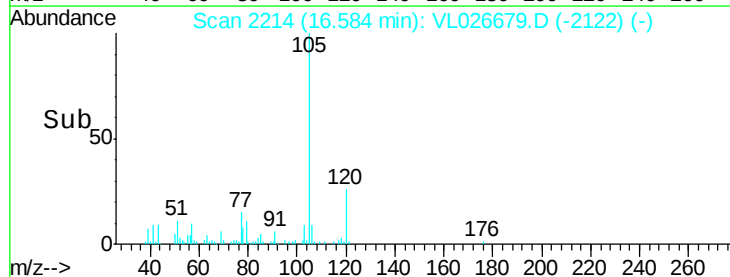
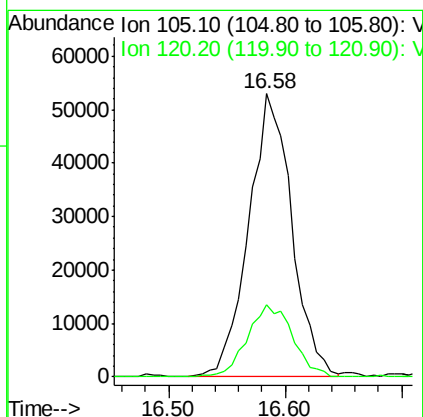
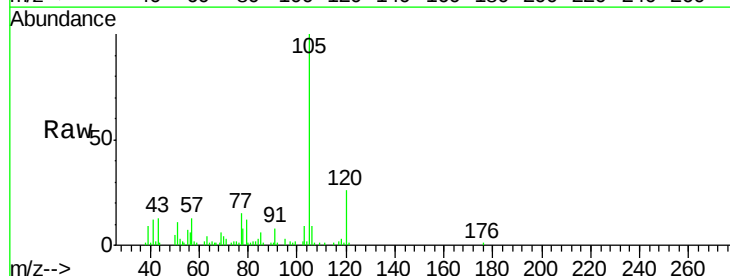
Instrument :
MSVOA_L
ClientSampleId :

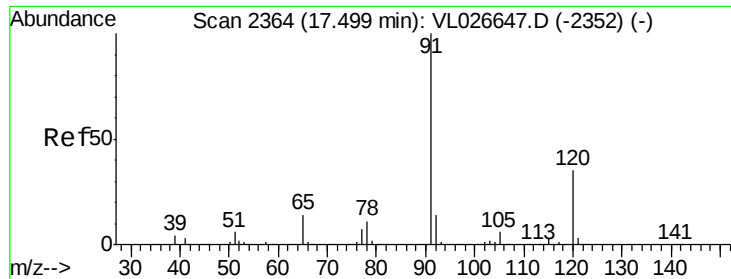
Tot Ion:104 Resp: 87351
Ion Ratio Lower Upper
104 100
78 47.9 39.6 59.4
103 48.7 37.8 56.6



#62
Isopropylbenzene
Concen: 0.21 ppbv
RT: 16.58 min Scan# 2214
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion:105 Resp: 136810
Ion Ratio Lower Upper
105 100
120 26.7 20.3 30.5

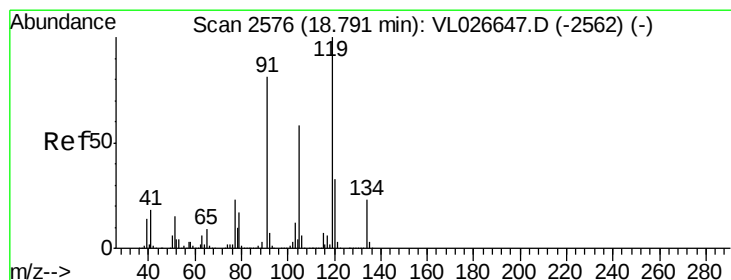
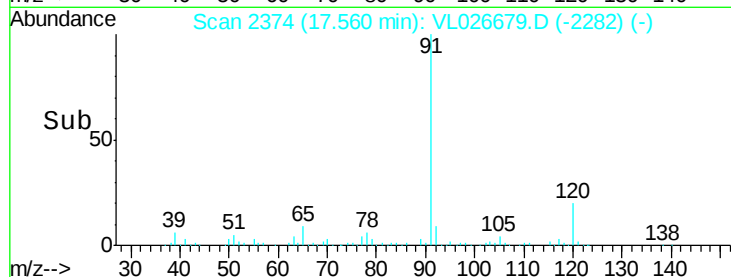
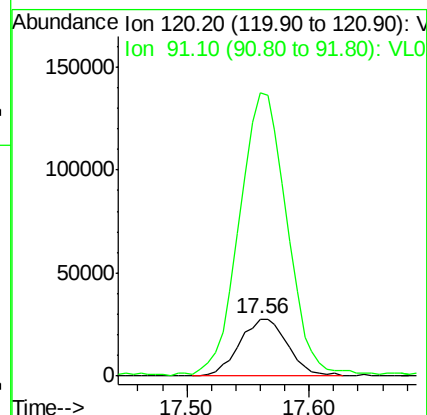
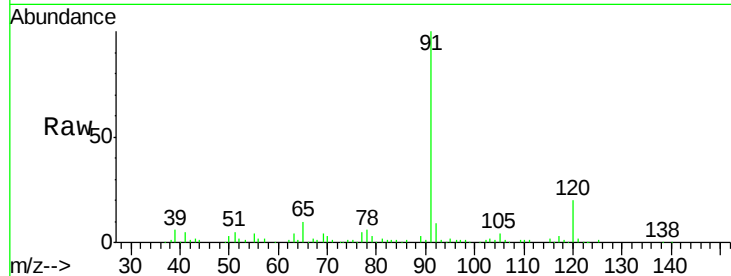




#64
n-propylbenzene
Concen: 0.43 ppbv
RT: 17.56 min Scan# 2374
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

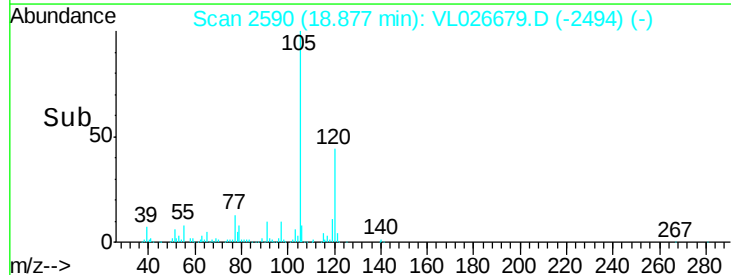
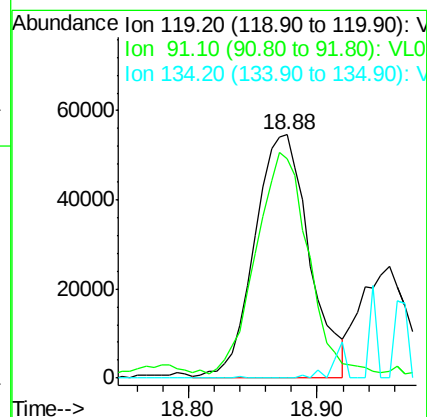
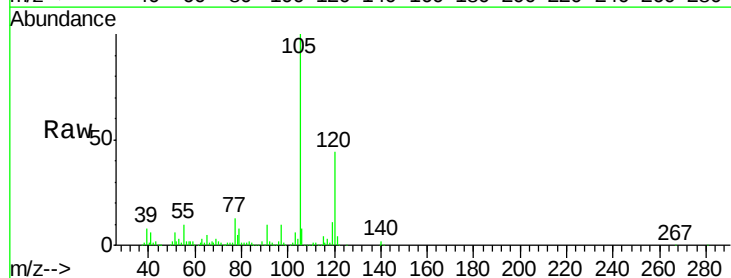
Instrument :
MSVOA_L
ClientSampled :

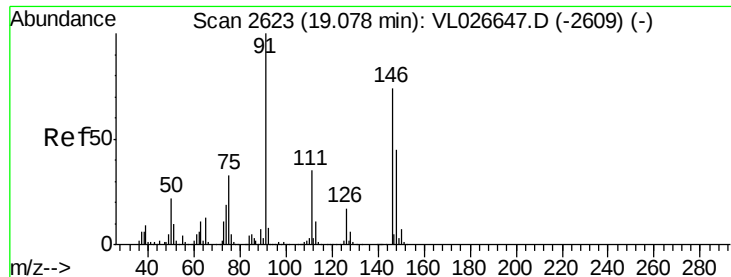
Tot Ion:120 Resp: 75739
Ion Ratio Lower Upper
120 100
91 492.9 375.8 563.6



#65
tert-Butylbenzene
Concen: 0.27 ppbv
RT: 18.88 min Scan# 2590
Delta R.T. 0.09 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion:119 Resp: 161057
Ion Ratio Lower Upper
119 100
91 94.3 64.8 97.2
134 0.0 17.4 26.0#

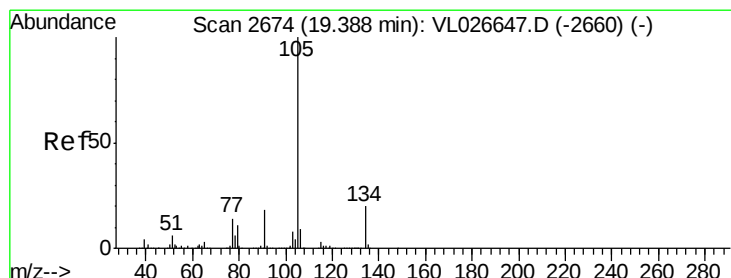
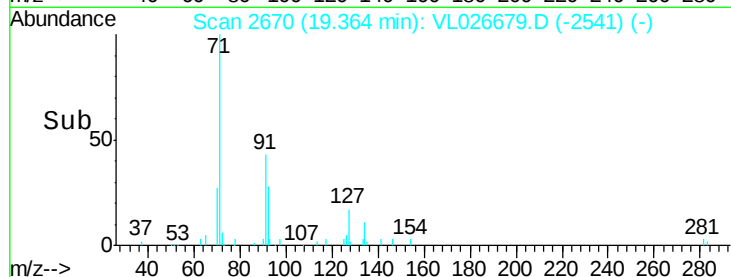
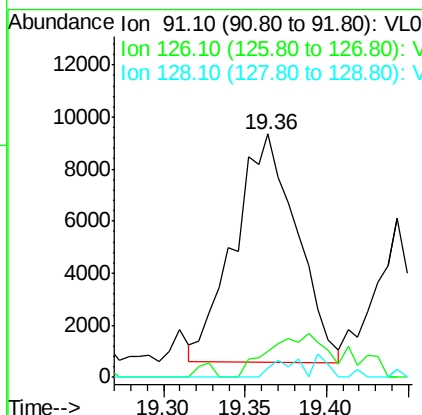
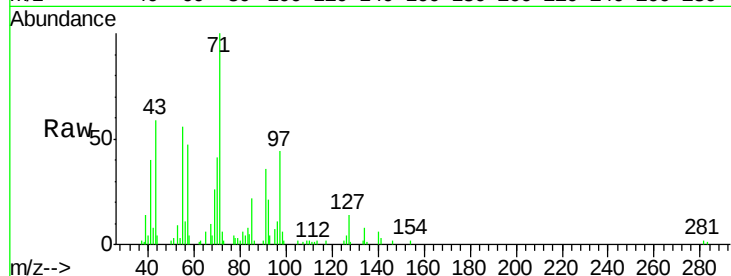




#66
Benzyl Chloride
Concen: 0.11 ppbv
RT: 19.36 min Scan# 2670
Delta R.T. 0.29 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

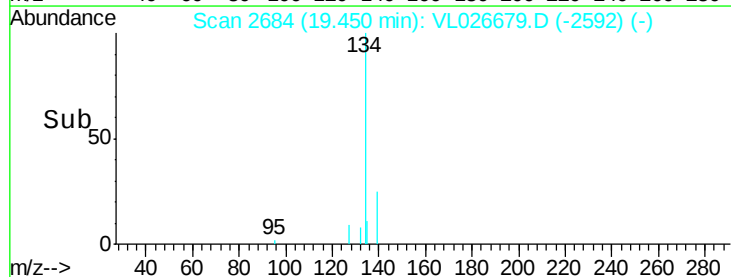
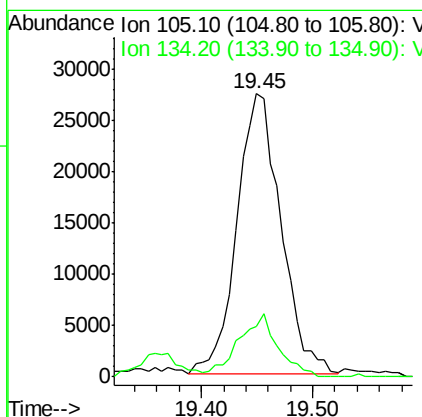
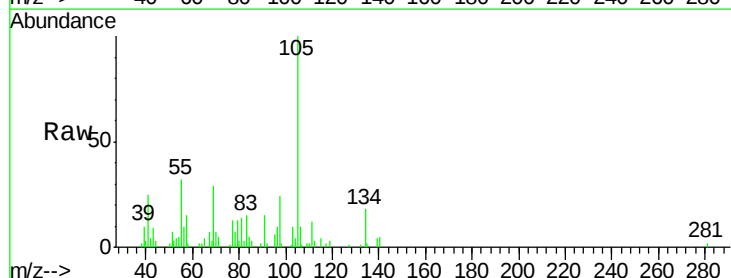
Instrument :
MSVOA_L
ClientSampleId :

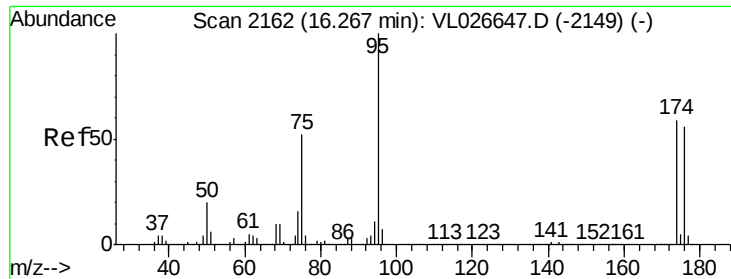
Tot Ion: 91 Resp: 23275
Ion Ratio Lower Upper
91 100
126 25.0 14.2 21.2#
128 6.0 4.5 6.7



#67
sec-Butylbenzene
Concen: 0.08 ppbv
RT: 19.45 min Scan# 2684
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 105 Resp: 75134
Ion Ratio Lower Upper
105 100
134 20.3 14.9 22.3

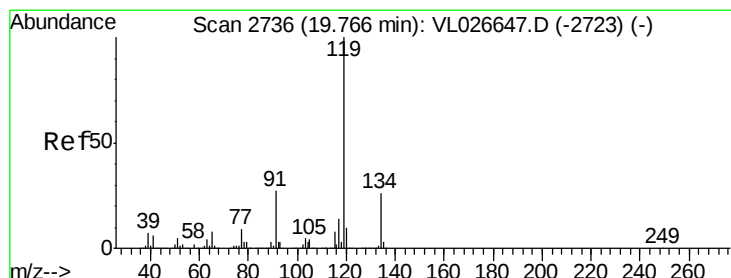
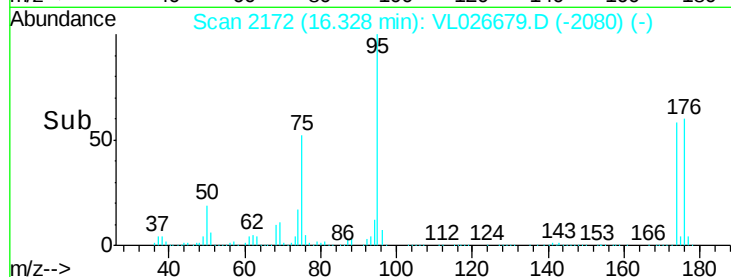
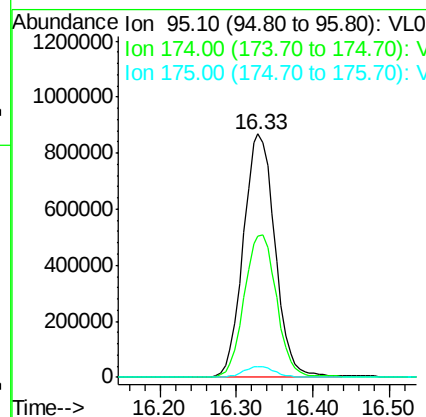
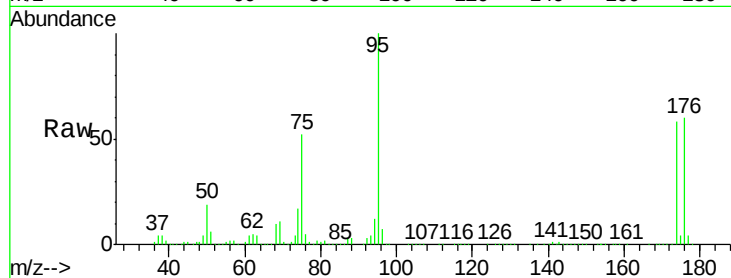




#68
1-Bromo-4-Fluorobenzene
Concen: 10.07 ppbv
RT: 16.33 min Scan# 2172
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

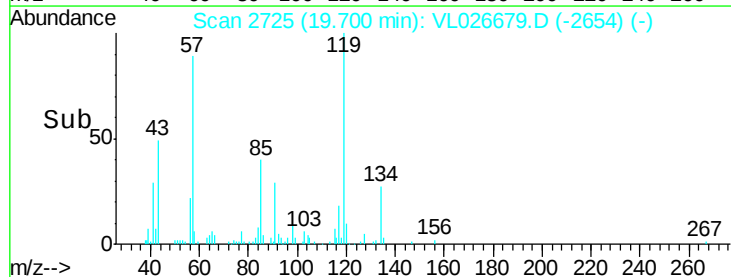
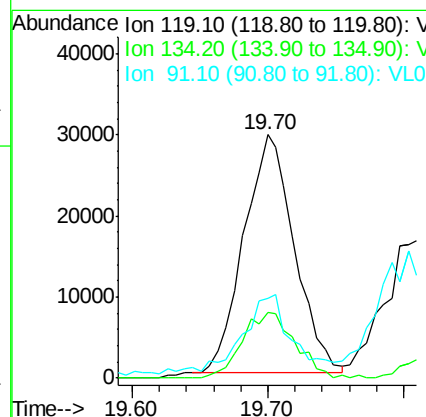
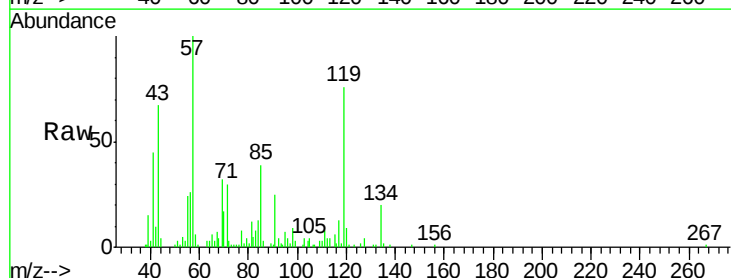
Instrument :
MSVOA_L
ClientSampleId :

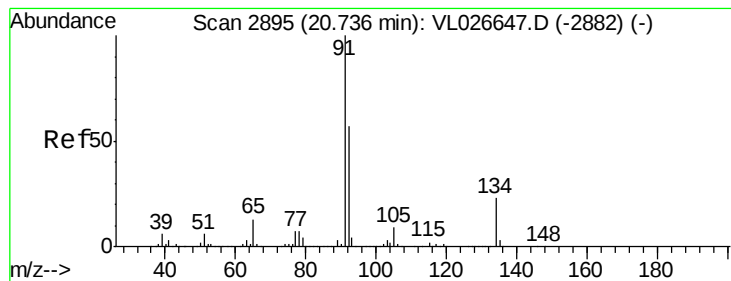
Tot Ion: 95 Resp: 2502318
Ion Ratio Lower Upper
95 100
174 60.5 47.8 71.8
175 4.5 3.6 5.4



#69
p-Isopropyltoluene
Concen: 0.11 ppbv
RT: 19.70 min Scan# 2725
Delta R.T. -0.07 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 119 Resp: 76345
Ion Ratio Lower Upper
119 100
134 28.9 20.6 31.0
91 31.3 21.7 32.5





#70

n-Butylbenzene

Concen: 0.11 ppbv

RT: 20.80 min Scan# 2906

Delta R.T. 0.07 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampleId :

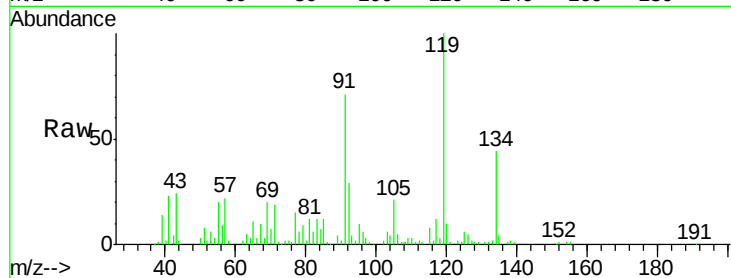
Tot Ion: 91 Resp: 75647

Ion Ratio Lower Upper

91 100

92 88.2 45.0 67.4#

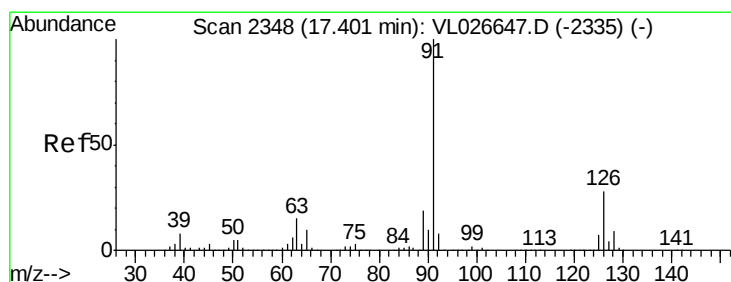
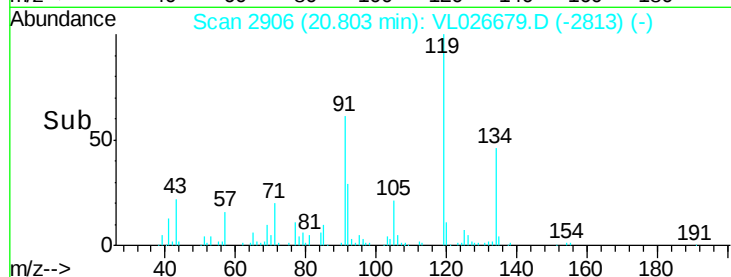
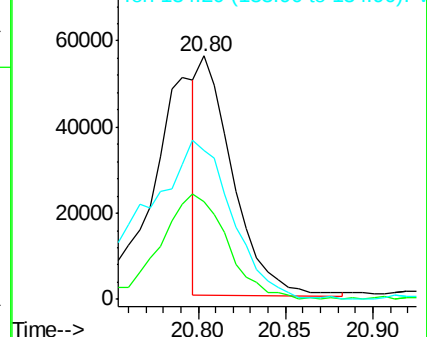
134 173.6 18.2 27.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.71 ppbv

RT: 17.56 min Scan# 2374

Delta R.T. 0.16 min

Lab File: VL026679.D

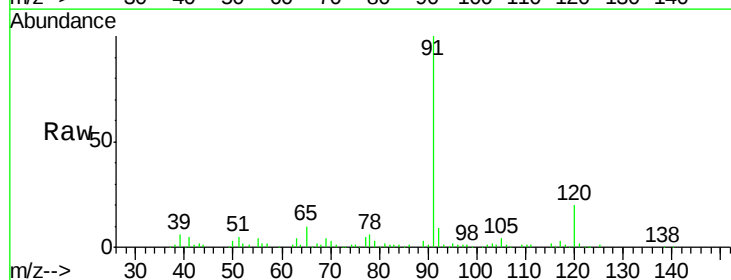
Acq: 12 Jan 2016 17:55

Tgt Ion: 91 Resp: 363522

Ion Ratio Lower Upper

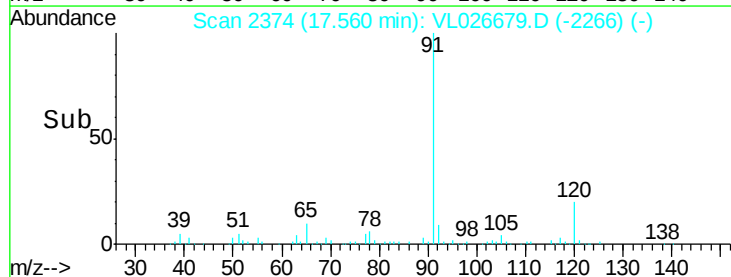
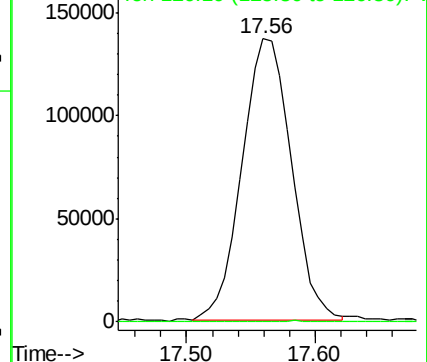
91 100

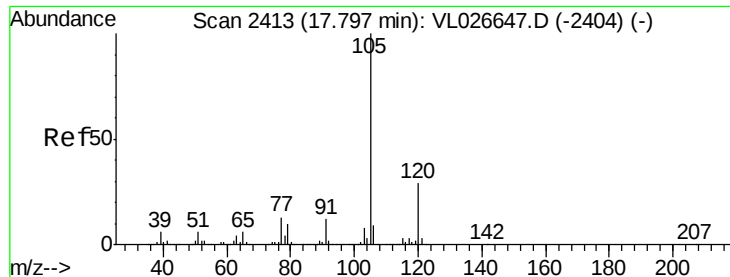
126 0.0 11.4 45.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.77 ppbv

RT: 17.86 min Scan# 2423

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:105 Resp: 427812

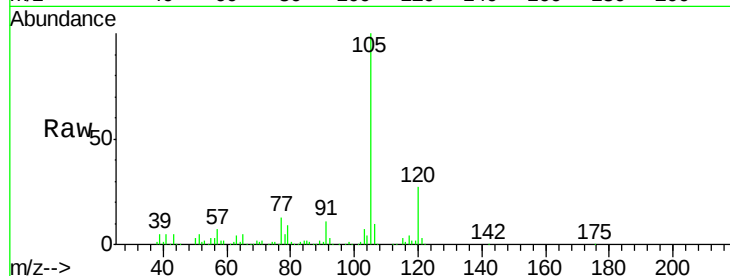
Ion Ratio Lower Upper

105 100

120 28.1 23.7 35.5

91 11.3 9.7 14.5

77 11.3 10.3 15.5

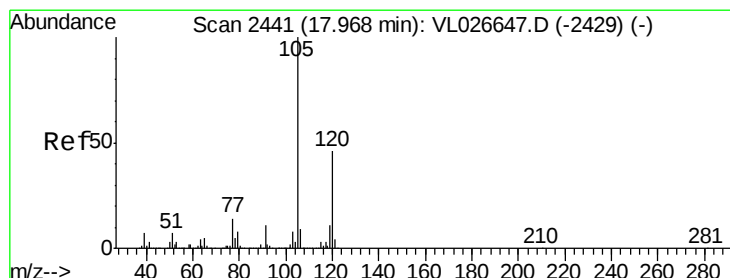
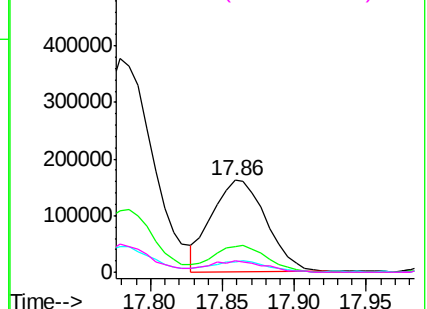
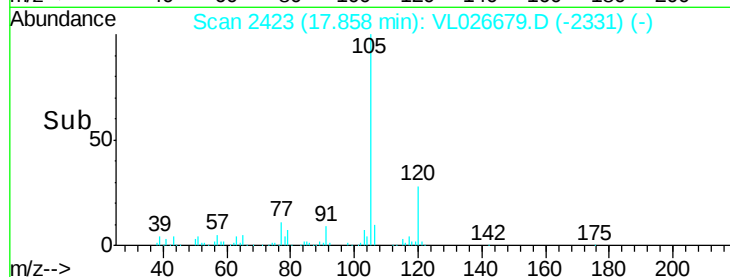


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.70 ppbv

RT: 18.03 min Scan# 2451

Delta R.T. 0.06 min

Lab File: VL026679.D

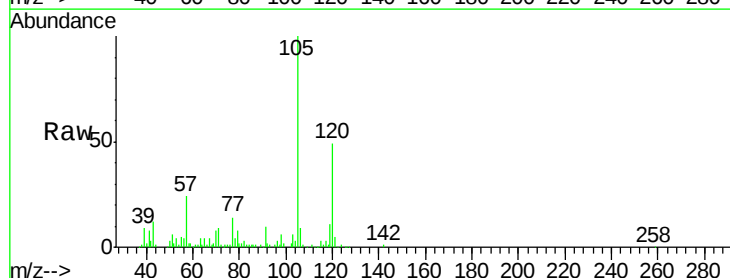
Acq: 12 Jan 2016 17:55

Tgt Ion:105 Resp: 369602

Ion Ratio Lower Upper

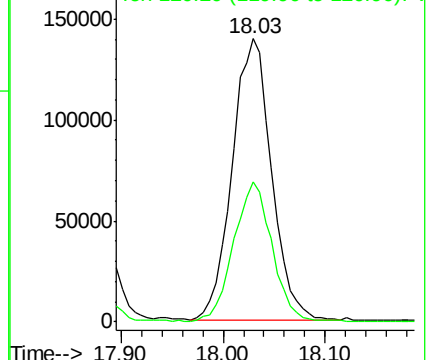
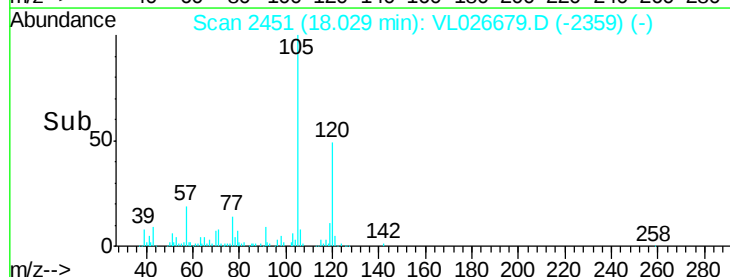
105 100

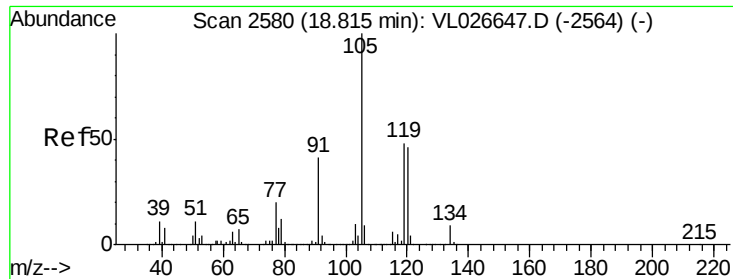
120 49.5 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

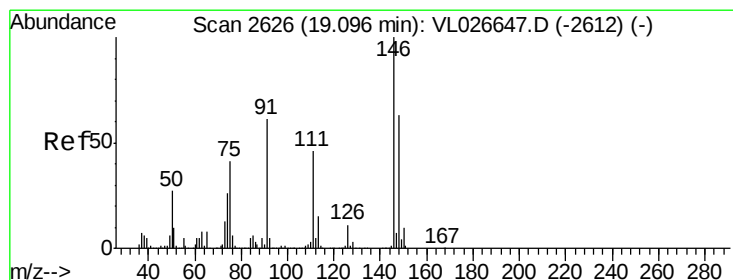
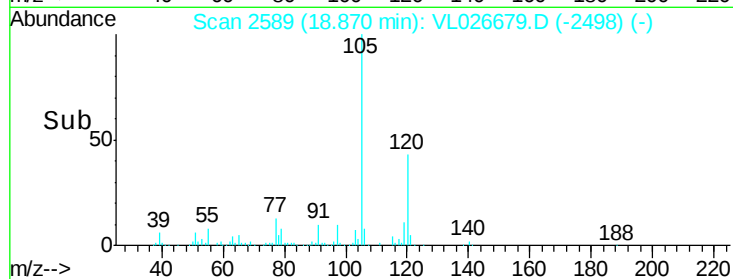
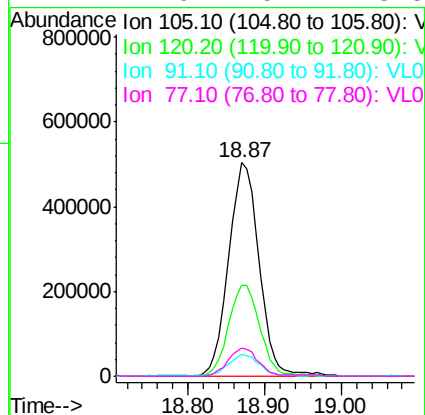
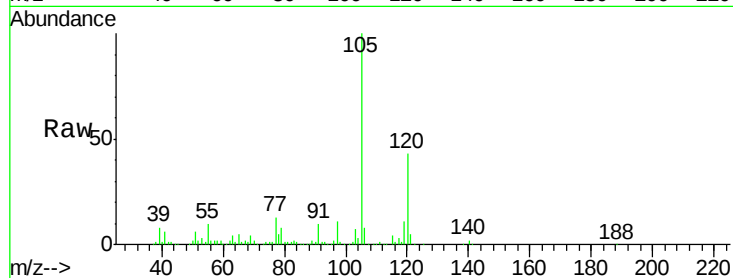




#74
 1,2,4-Trimethylbenzene
 Concen: 2.49 ppbv
 RT: 18.87 min Scan# 2589
 Delta R.T. 0.05 min
 Lab File: VL026679.D
 Acq: 12 Jan 2016 17:55

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:105 Resp: 1391610
 Ion Ratio Lower Upper
 105 100
 120 42.6 36.6 55.0
 91 9.8 32.5 48.7#
 77 12.9 15.7 23.5#



#75
 1,3-Dichlorobenzene
 Concen: 0.05 ppbv
 RT: 19.17 min Scan# 2638
 Delta R.T. 0.07 min
 Lab File: VL026679.D
 Acq: 12 Jan 2016 17:55

Tgt Ion:146 Resp: 18705
 Ion Ratio Lower Upper
 146 100
 111 61.8 22.9 68.5
 148 67.2 31.6 95.0

