

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031229.D
 Acq On : 14 Dec 2017 13:13
 Operator : SY/AP
 Sample : I6808-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 05:15:27 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 04:29:58 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1389785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3279314	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2555292	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2301792	12.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	126.60%

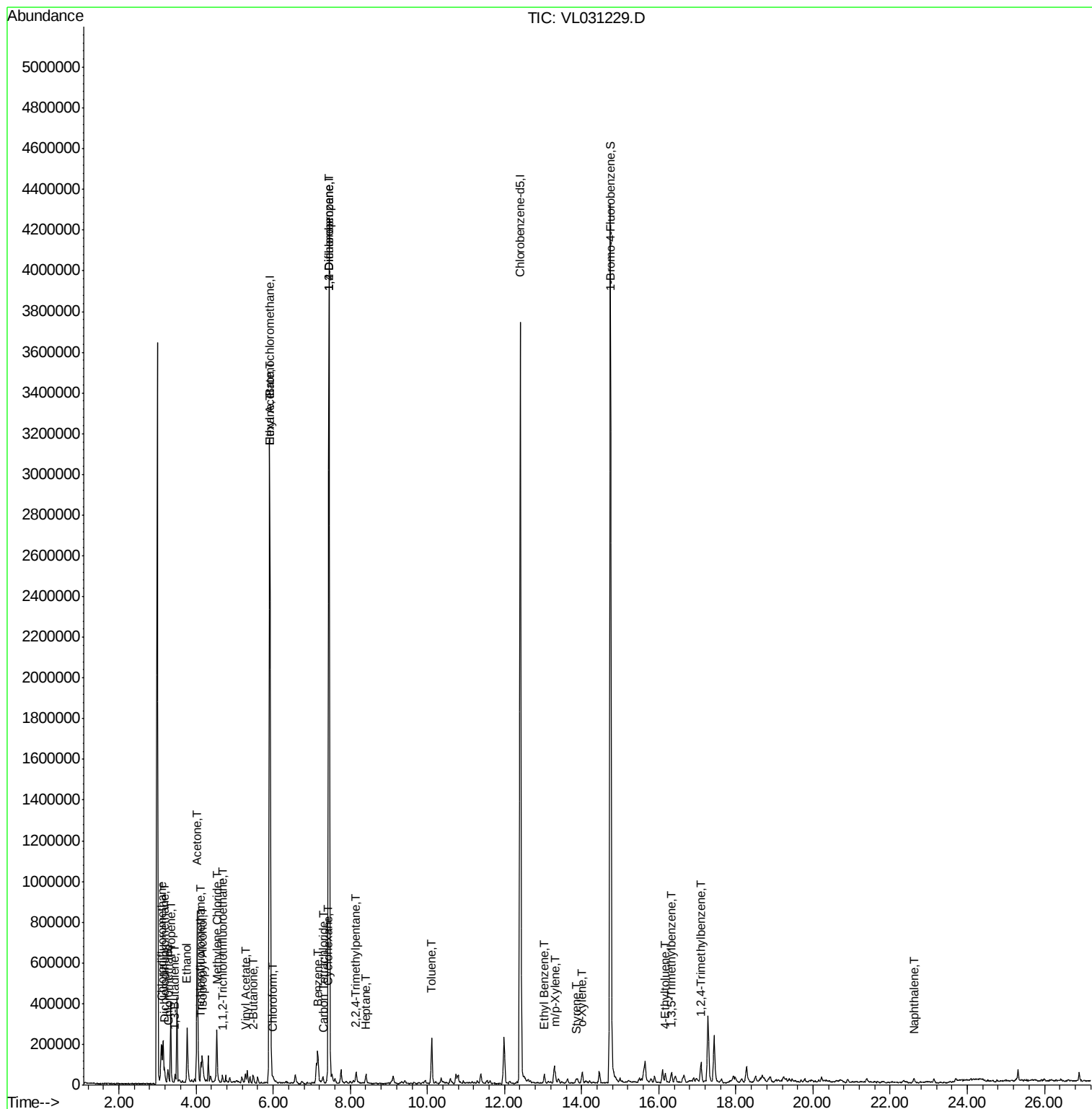
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	39473	0.336	ppbv	99
3) Chlorodifluoromethane	3.12	51	280655	1.776	ppbv #	84
4) Chloromethane	3.28	50	44935	0.526	ppbv	94
9) Propene	3.35	41	94175	1.214	ppbv	91
10) Heptane	8.41	43	9154	0.039	ppbv #	28
11) Trichlorofluoromethane	4.13	101	56340	0.292	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.69	101	9050	0.067	ppbv #	83
13) Ethanol	3.77	45	321524	14.374	ppbv	100
15) Acetone	4.03	43	920487	5.019	ppbv	100
16) 1,3-Butadiene	3.45	39	12894	0.163	ppbv #	8
19) Isopropyl Alcohol	4.16	45	168498	1.452	ppbv #	1
20) Methylene Chloride	4.54	84	89430	1.473	ppbv	94
23) Vinyl Acetate	5.29	43	10409	0.035	ppbv #	44
25) Ethyl Acetate	5.93	43	305357	0.815	ppbv #	79
26) Hexane	5.93	57	418271	2.353	ppbv #	44
29) Chloroform	5.99	83	8157	0.034	ppbv #	78
30) Cyclohexane	7.41	84	6505	0.042	ppbv #	1
34) 2-Butanone	5.48	43	55783	0.241	ppbv	97
35) Carbon Tetrachloride	7.29	117	9929	0.042	ppbv	96
36) Benzene	7.16	78	96928	0.279	ppbv #	93
39) 1,2-Dichloropropane	7.45	63	792981	6.453	ppbv #	27
44) 2,2,4-Trimethylpentane	8.15	57	25186	0.048	ppbv #	11
53) Toluene	10.11	91	101012	0.268	ppbv #	50
58) Ethyl Benzene	13.03	91	39682	0.094	ppbv	93
59) m/p-Xylene	13.32	91	19165	0.057	ppbv #	29
60) o-Xylene	14.02	91	36032	0.106	ppbv	94
61) Styrene	13.85	104	7544	0.077	ppbv #	68
72) 4-Ethyltoluene	16.17	105	21427	0.057	ppbv #	72
73) 1,3,5-Trimethylbenzene	16.33	105	25556	0.077	ppbv	94
74) 1,2,4-Trimethylbenzene	17.10	105	66579	0.191	ppbv #	73
79) Naphthalene	22.62	128	9177	0.032	ppbv	97

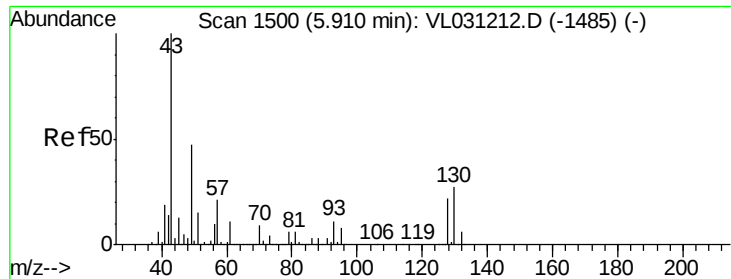
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 14 04:29:58 2017
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

ClientSampleId :

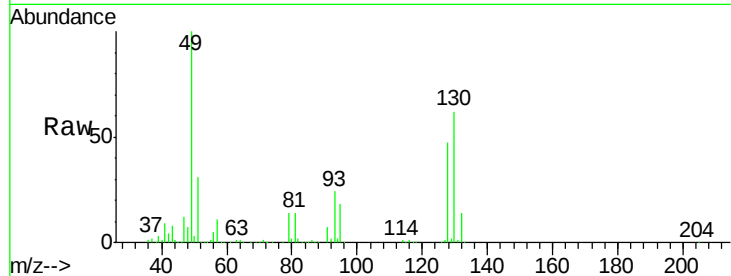
Tot Ion: 49 Resp: 1389785

Ion	Ratio	Lower	Upper
49	100		
128	49.0	23.2	69.5
130	62.8	29.6	88.8

49 100

128 49.0 23.2 69.5

130 62.8 29.6 88.8



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

5.91

800000

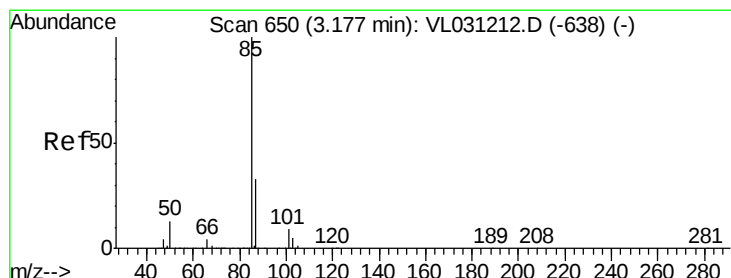
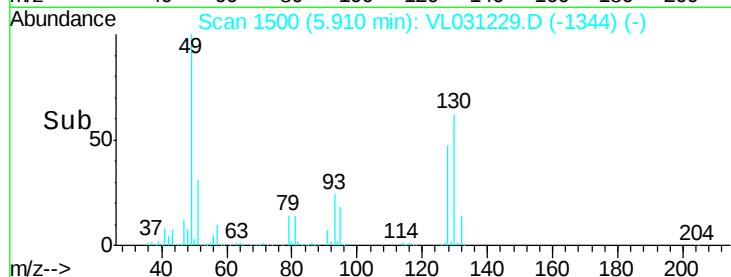
600000

400000

200000

0

Time--> 5.80 5.85 5.90 5.95 6.00



#2

Dichlorodifluoromethane

Concen: 0.336 ppbv

RT: 3.18 min Scan# 652

Delta R.T. 0.01 min

Lab File: VL031229.D

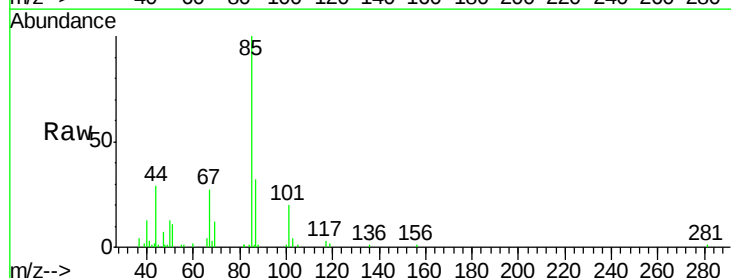
Acq: 14 Dec 2017 13:13

Tgt Ion: 85 Resp: 39473

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.2	39.2

85 100

87 32.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.18

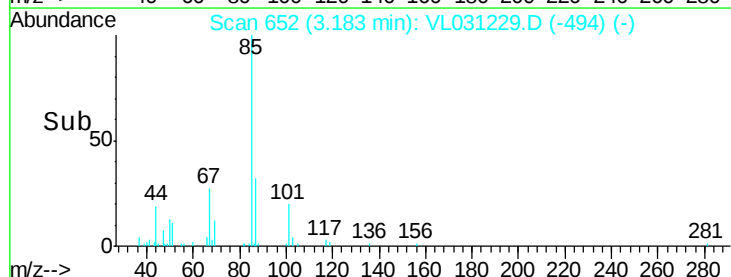
30000

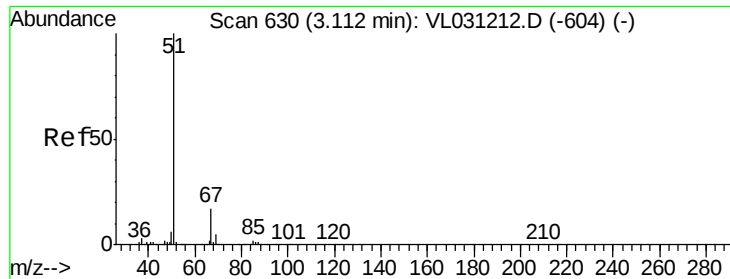
20000

10000

0

Time--> 3.15 3.20

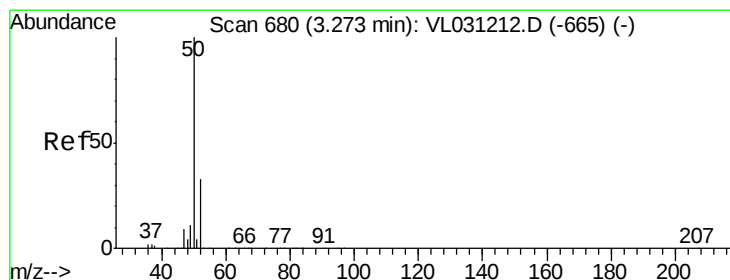
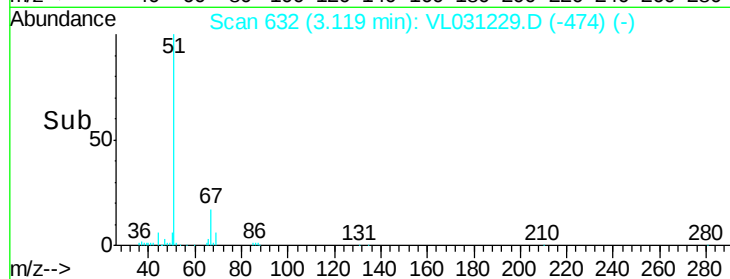
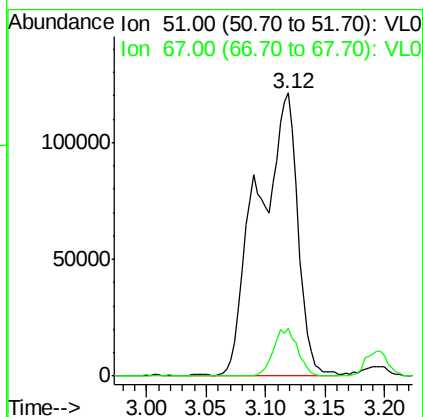
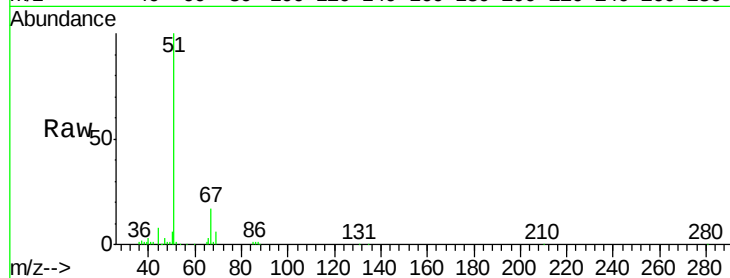




#3
 Chlorodifluoromethane
 Concen: 1.776 ppbv
 RT: 3.12 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

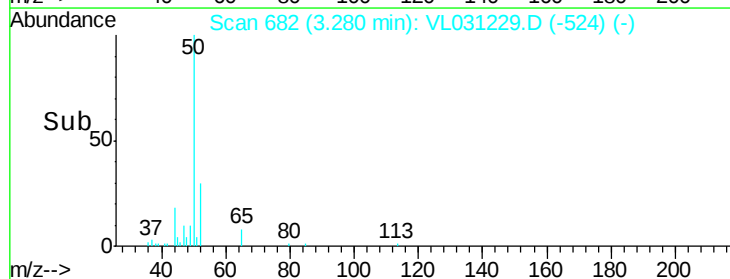
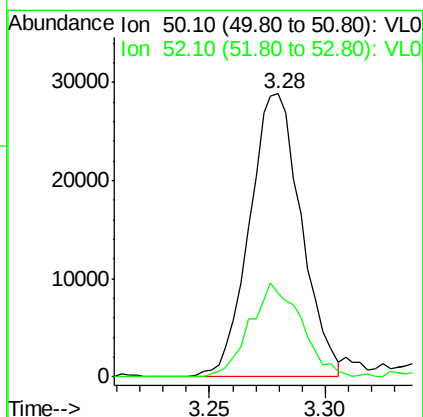
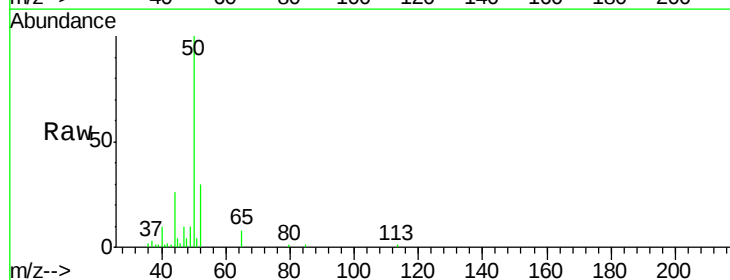
Instrument :
 MSVOA_L
 ClientSampleId :

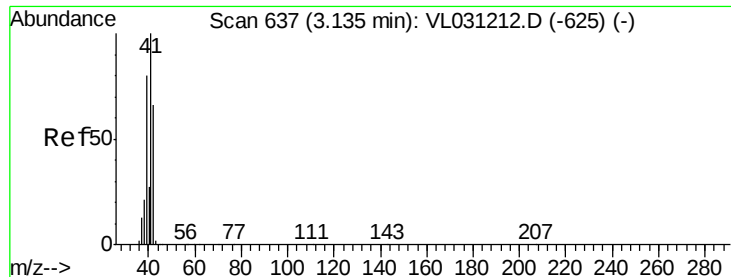
Tot Ion: 51 Resp: 280655
 Ion Ratio Lower Upper
 51 100
 67 10.3 13.8 20.6#



#4
 Chloromethane
 Concen: 0.526 ppbv
 RT: 3.28 min Scan# 682
 Delta R.T. 0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Tgt Ion: 50 Resp: 44935
 Ion Ratio Lower Upper
 50 100
 52 29.8 26.5 39.7





#9

Propene

Concen: 1.214 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.21 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

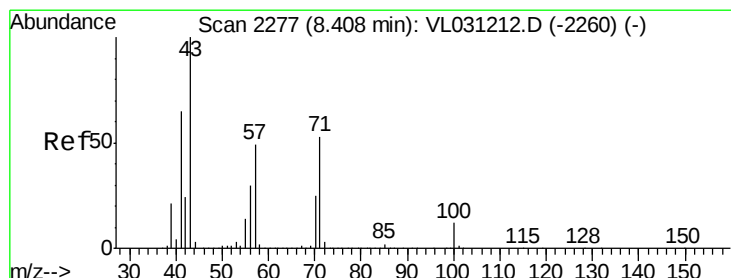
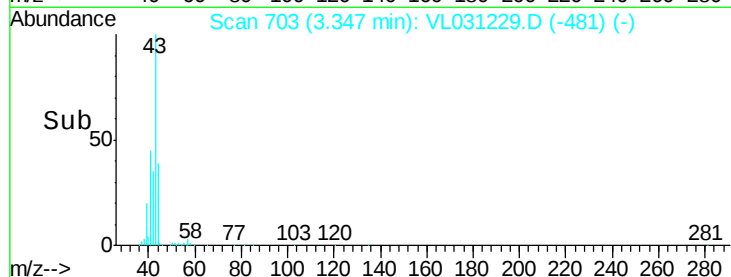
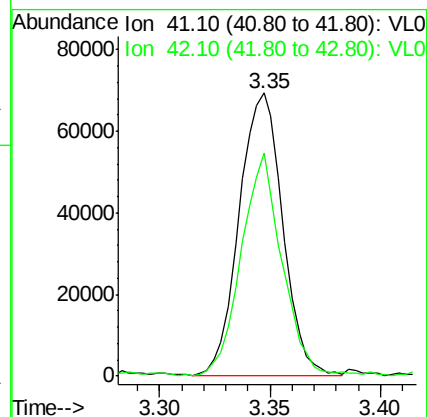
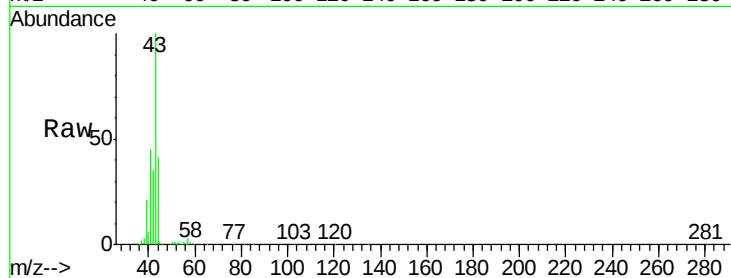
ClientSampleId :

Tot Ion: 41 Resp: 94175

Ion Ratio Lower Upper

41 100

42 75.3 54.3 81.5



#10

Heptane

Concen: 0.039 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031229.D

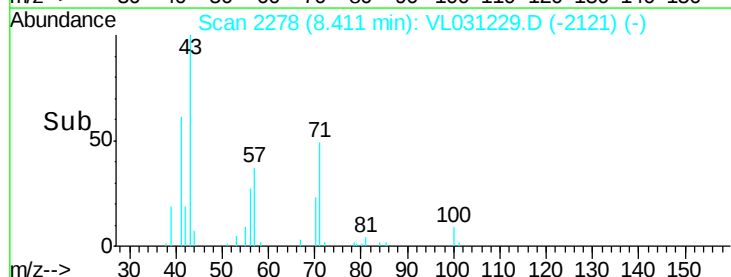
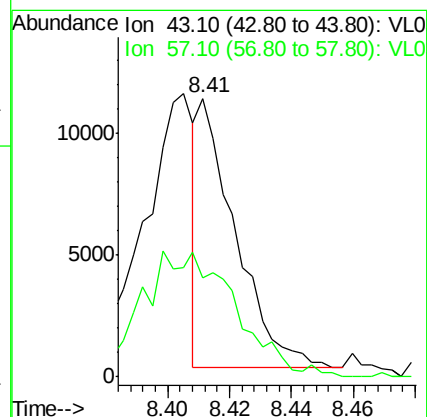
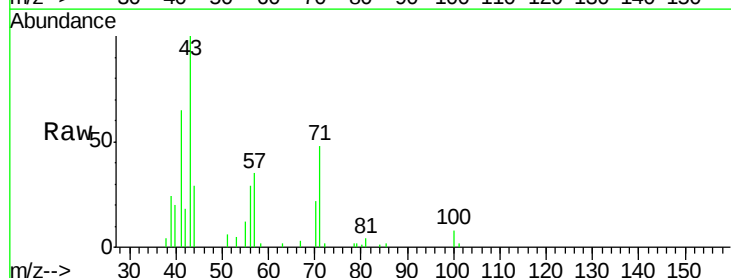
Acq: 14 Dec 2017 13:13

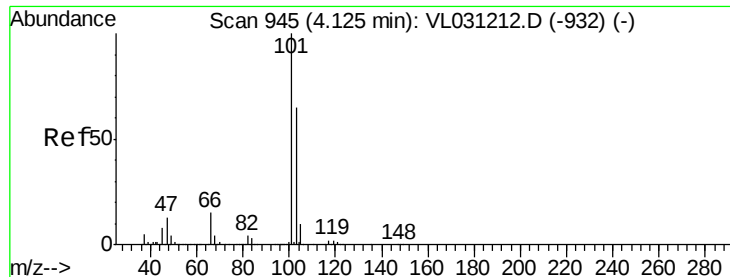
Tgt Ion: 43 Resp: 9154

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.8#

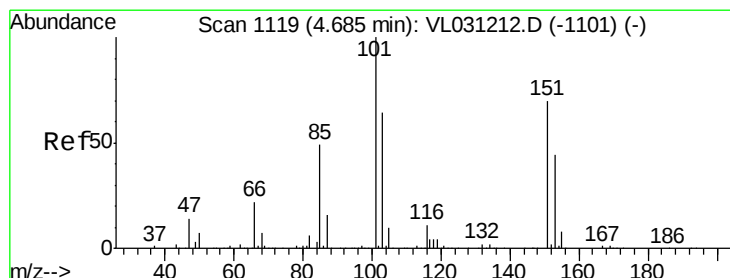
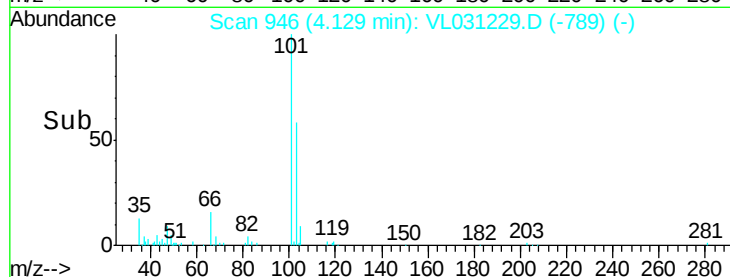
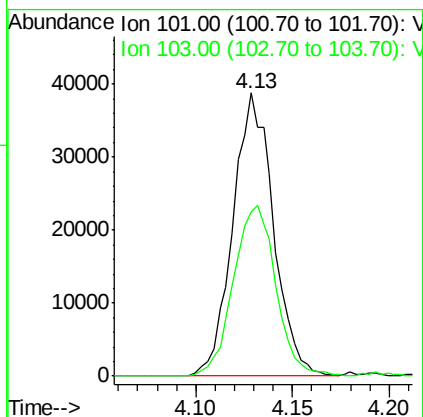
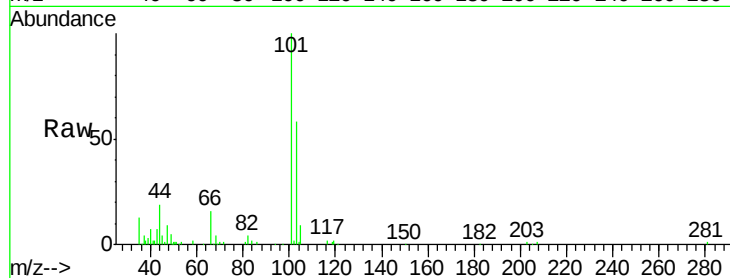




#11
 Trichlorofluoromethane
 Concen: 0.292 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

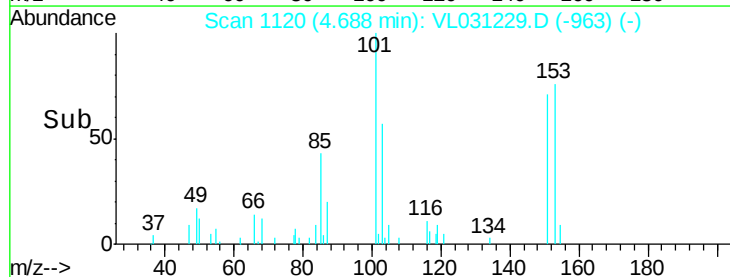
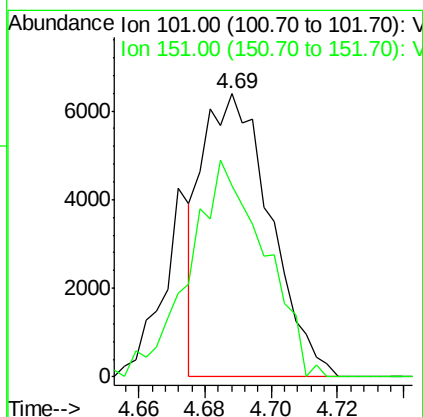
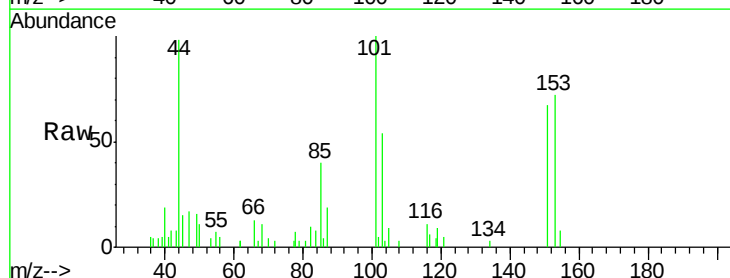
Instrument :
 MSVOA_L
 ClientSampleId :

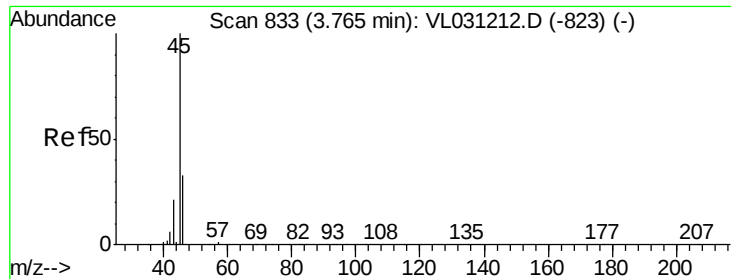
Tot Ion:101 Resp: 56340
 Ion Ratio Lower Upper
 101 100
 103 57.9 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv
 RT: 4.69 min Scan# 1120
 Delta R.T. 0.00 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Tgt Ion:101 Resp: 9050
 Ion Ratio Lower Upper
 101 100
 151 84.9 56.5 84.7#





#13

Ethanol

Concen: 14.374 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.00 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

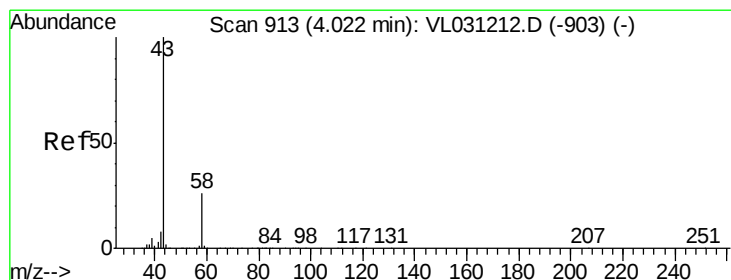
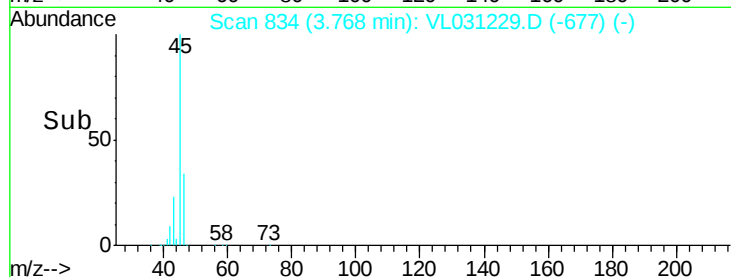
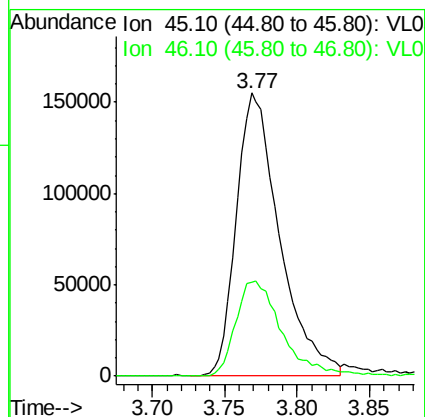
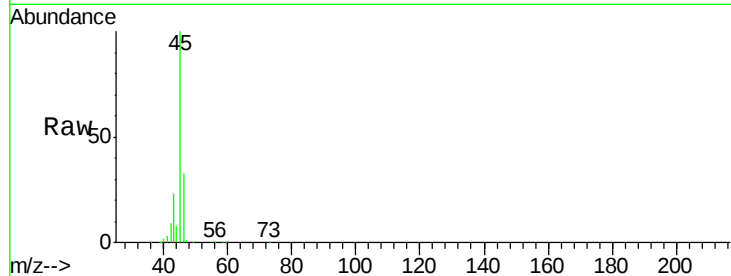
ClientSampleId :

Tot Ion: 45 Resp: 321524

Ion Ratio Lower Upper

45 100

46 36.3 14.6 58.4



#15

Acetone

Concen: 5.019 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VL031229.D

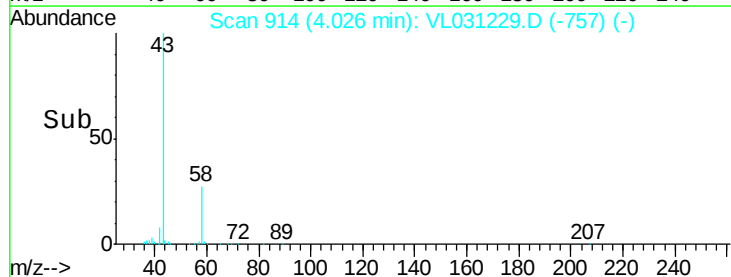
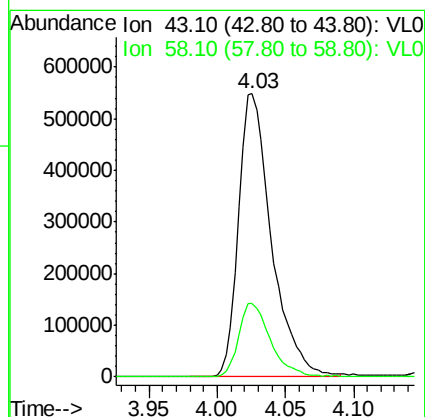
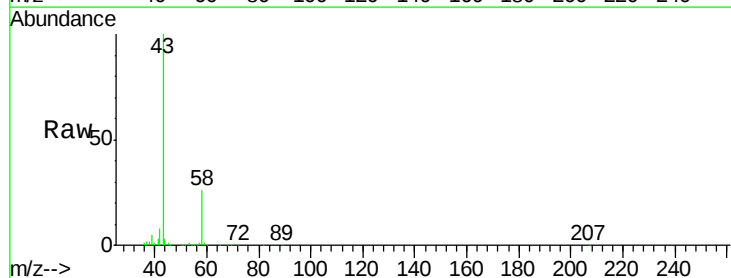
Acq: 14 Dec 2017 13:13

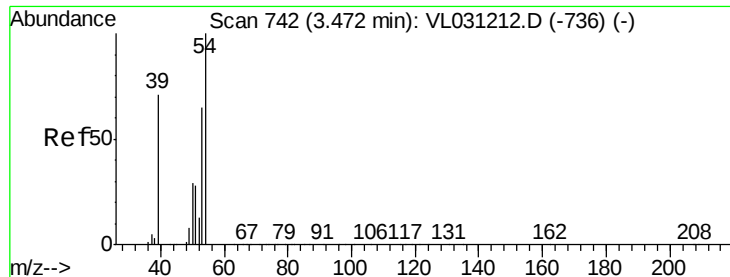
Tgt Ion: 43 Resp: 920487

Ion Ratio Lower Upper

43 100

58 25.5 20.3 30.5





#16

1,3-Butadiene

Concen: 0.163 ppbv

RT: 3.45 min Scan# 736

Delta R.T. -0.02 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

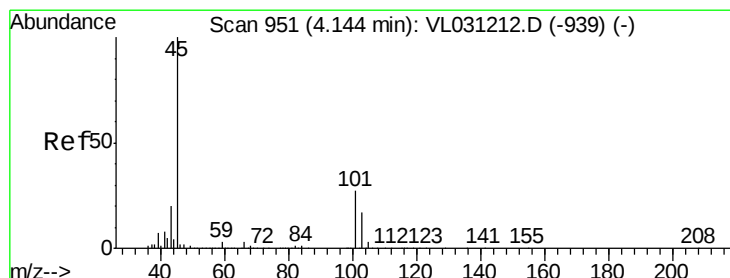
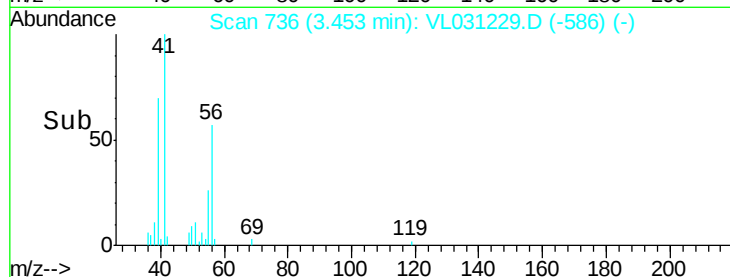
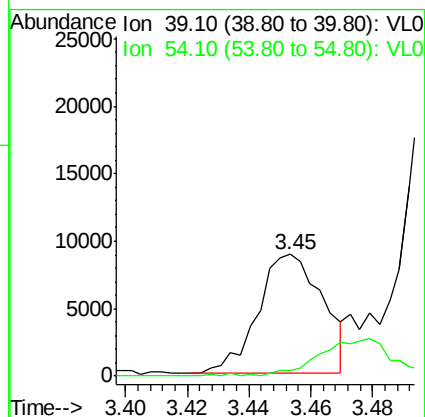
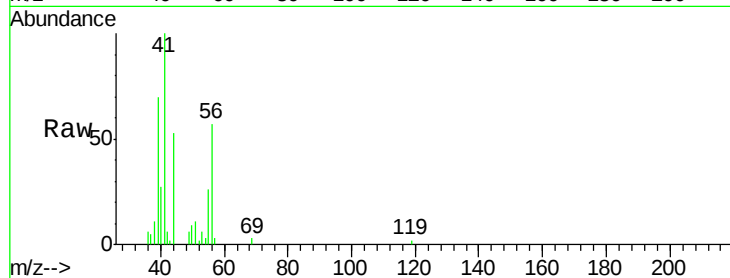
ClientSampleId :

Tot Ion: 39 Resp: 12894

Ion Ratio Lower Upper

39 100

54 0.0 66.4 99.6#



#19

Isopropyl Alcohol

Concen: 1.452 ppbv

RT: 4.16 min Scan# 956

Delta R.T. 0.02 min

Lab File: VL031229.D

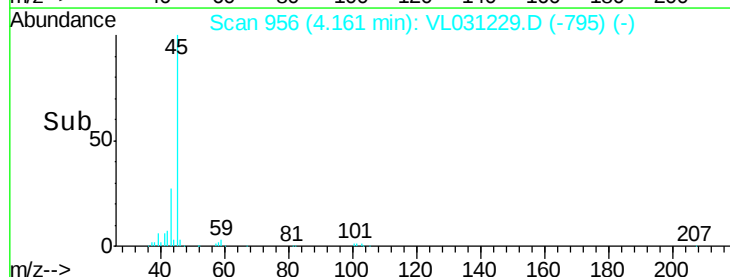
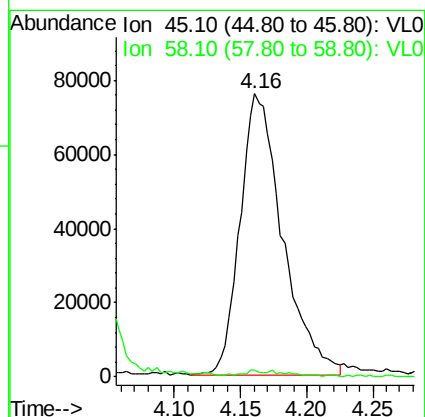
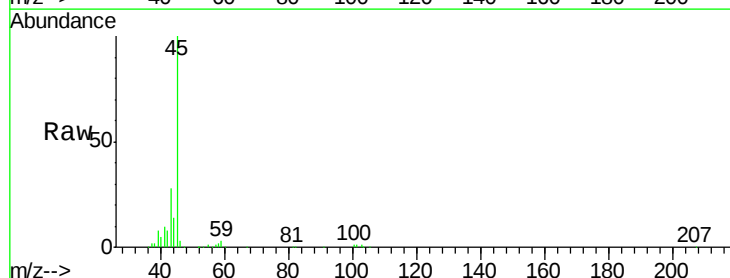
Acq: 14 Dec 2017 13:13

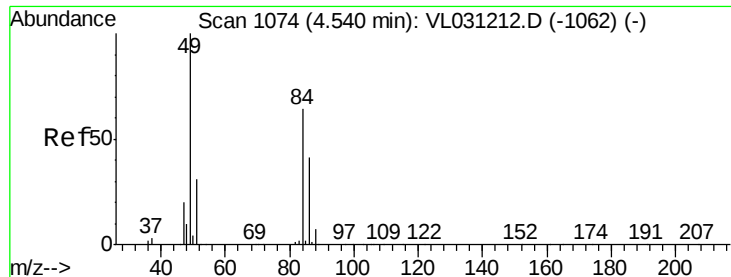
Tgt Ion: 45 Resp: 168498

Ion Ratio Lower Upper

45 100

58 139.5 27.2 40.8#

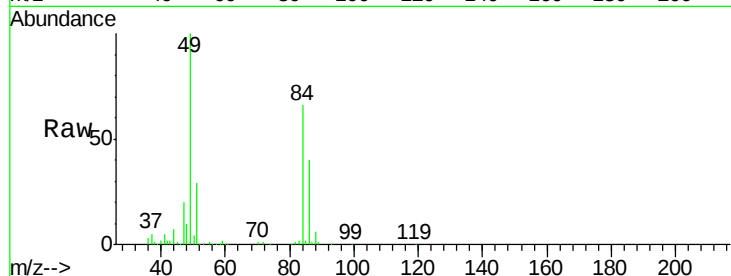




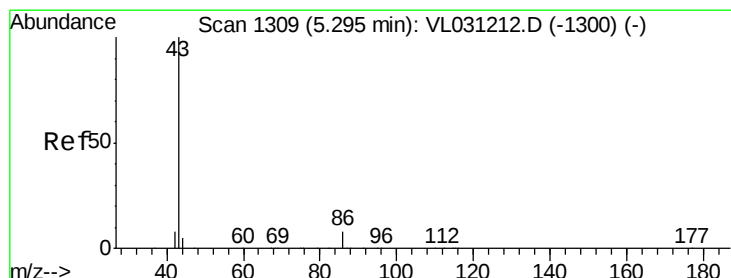
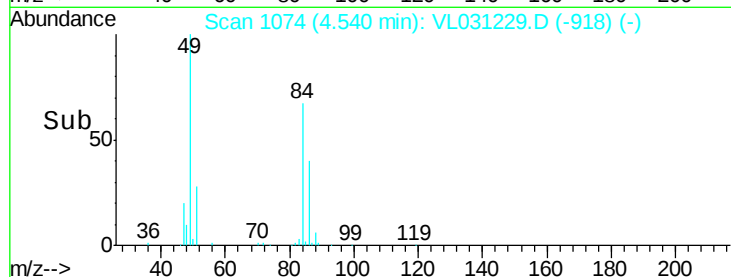
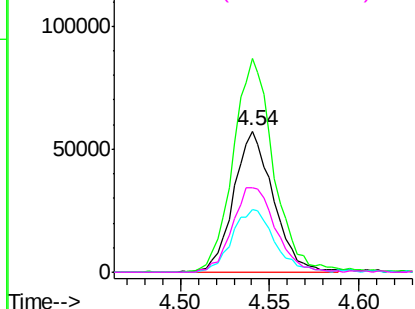
#20
Methvlene Chloride
Concen: 1.473 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 89430
Ion Ratio Lower Upper
84 100
49 150.2 125.8 188.6
51 43.8 39.3 58.9
86 60.0 51.1 76.7

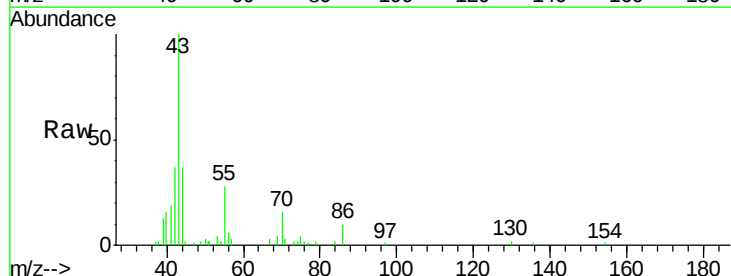


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

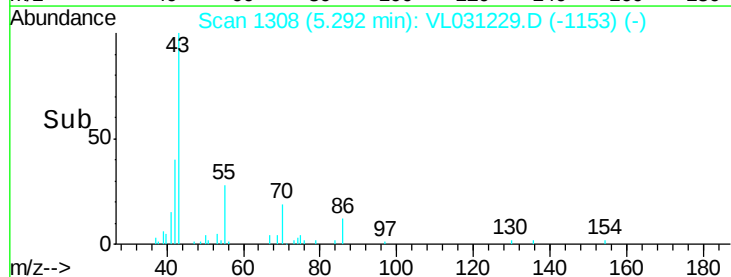
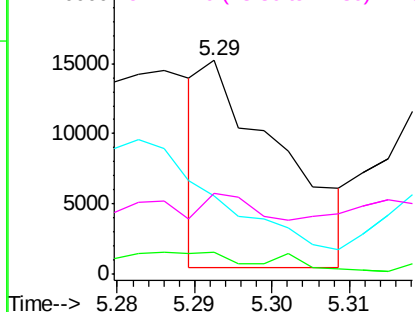


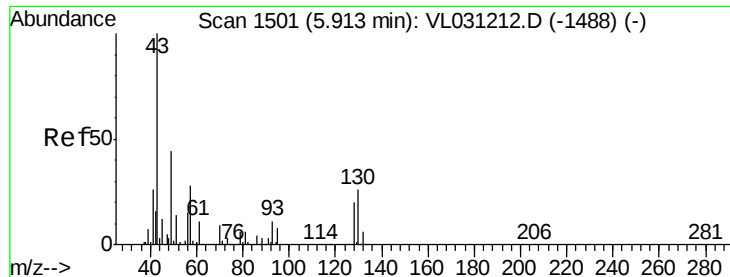
#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 5.29 min Scan# 1308
Delta R.T. -0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion: 43 Resp: 10409
Ion Ratio Lower Upper
43 100
86 12.6 5.9 8.9#
42 42.2 7.3 10.9#
44 22.1 3.7 5.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0

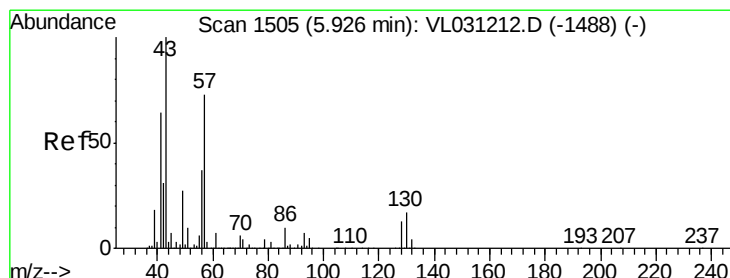
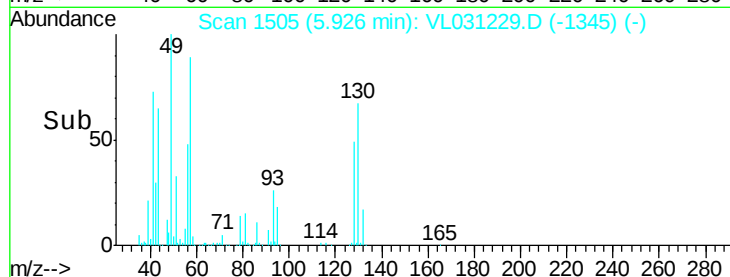
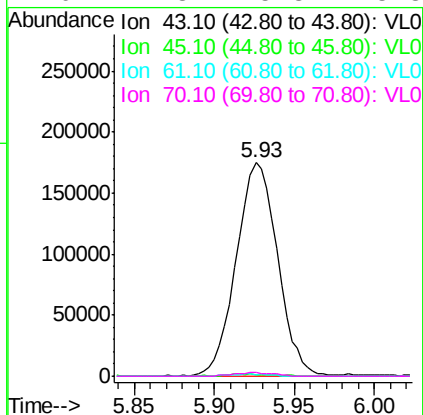
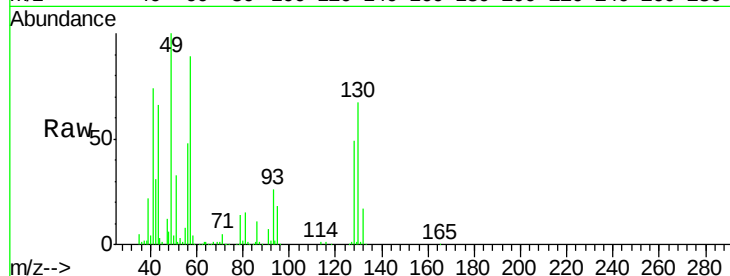




#25
Ethyl Acetate
Concen: 0.815 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

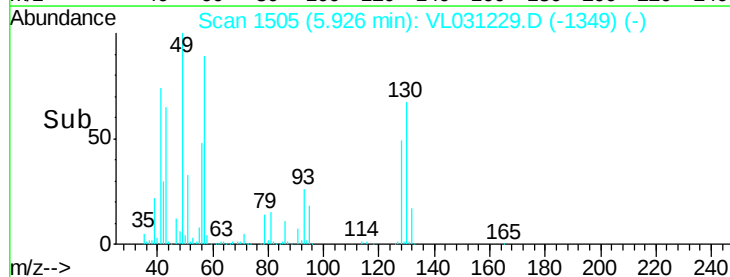
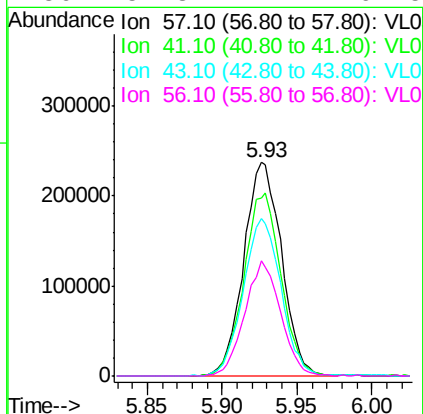
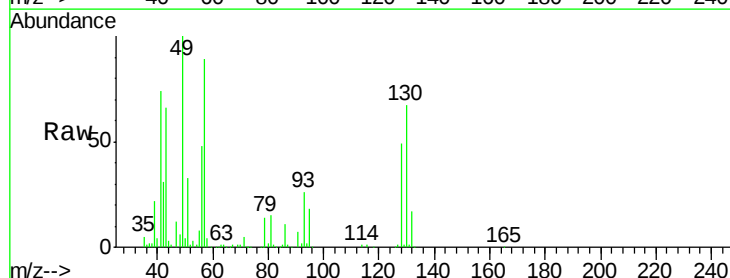
Instrument :
MSVOA_L
ClientSampleId :

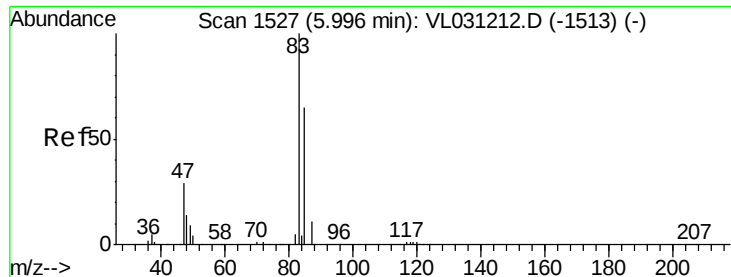
Tot Ion:	43	Resp:	305357
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.0	12.0#
61	1.1	7.4	11.0#
70	1.8	5.8	8.8#



#26
Hexane
Concen: 2.353 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion:	57	Resp:	418271
Ion	Ratio	Lower	Upper
57	100		
41	83.8	70.3	105.5
43	74.6	173.8	260.8#
56	51.3	41.7	62.5

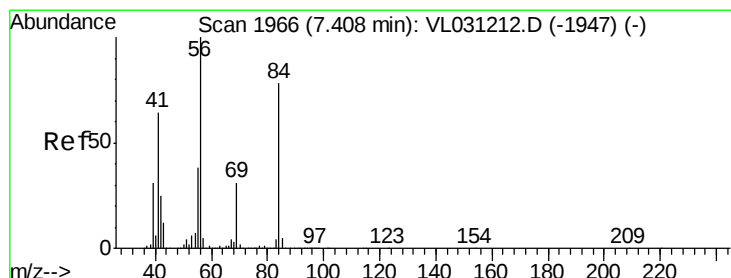
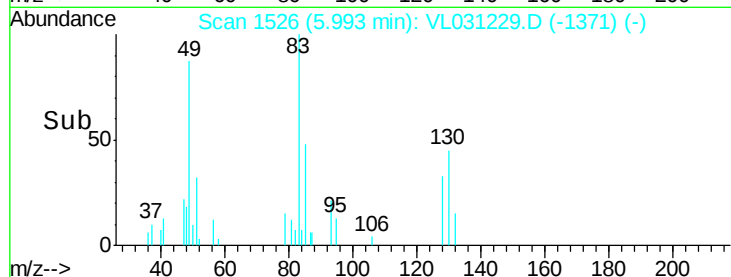
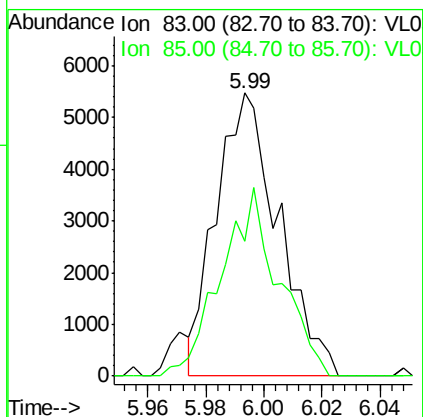
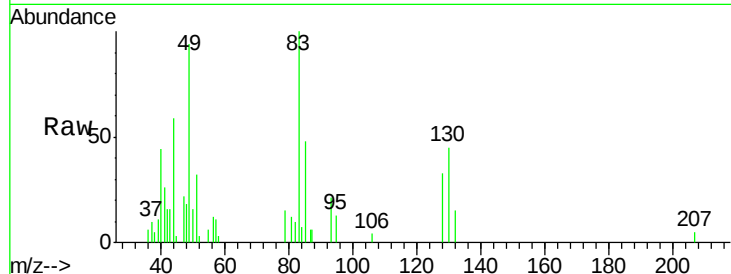




#29
Chloroform
Concen: 0.034 ppbv
RT: 5.99 min Scan# 1526
Delta R.T. -0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

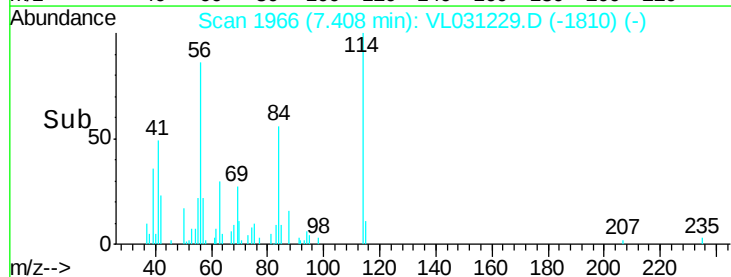
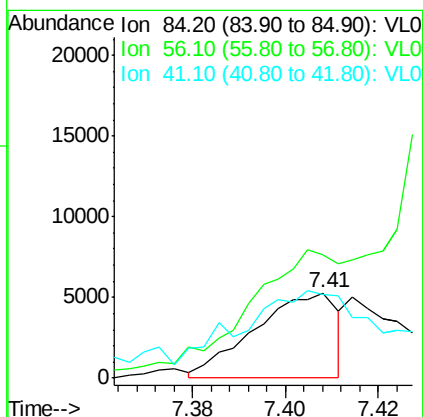
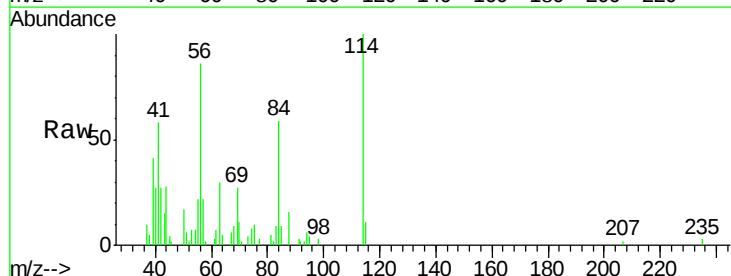
Instrument :
MSVOA_L
ClientSampleId :

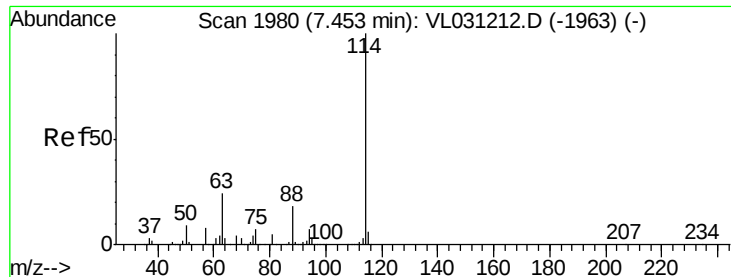
Tot Ion: 83 Resp: 8157
Ion Ratio Lower Upper
83 100
85 47.8 51.8 77.6#



#30
Cyclohexane
Concen: 0.042 ppbv
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion: 84 Resp: 6505
Ion Ratio Lower Upper
84 100
56 0.0 108.0 162.0#
41 217.3 66.2 99.4#



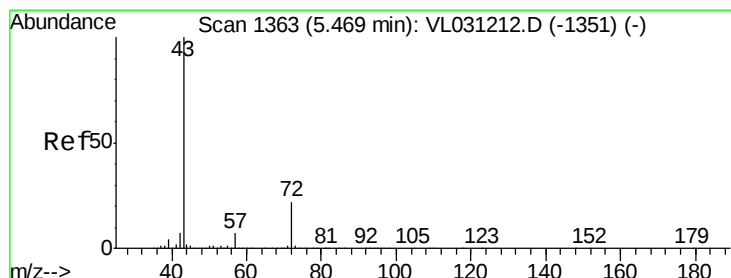
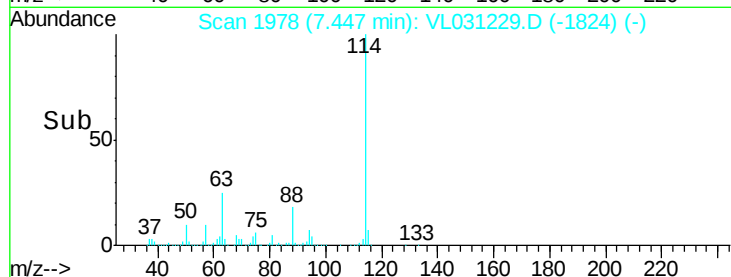
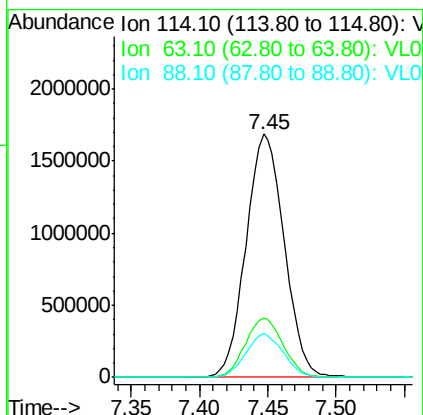
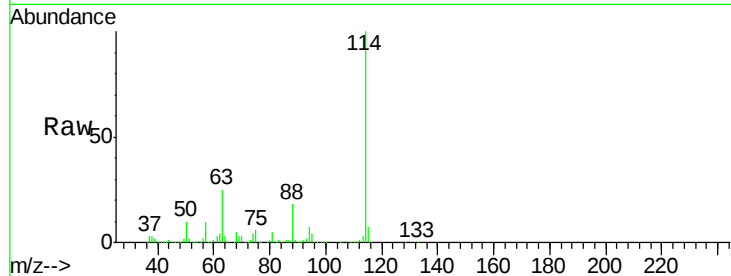


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.45 min Scan# 1978
 Delta R.T. -0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3279314

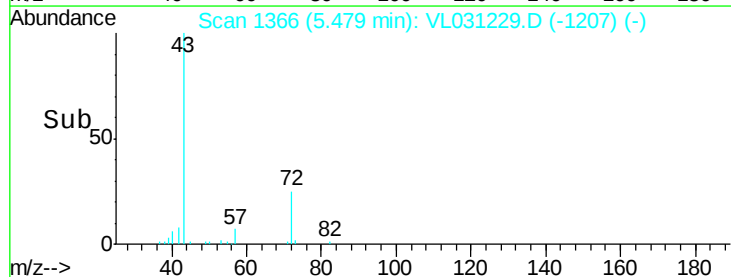
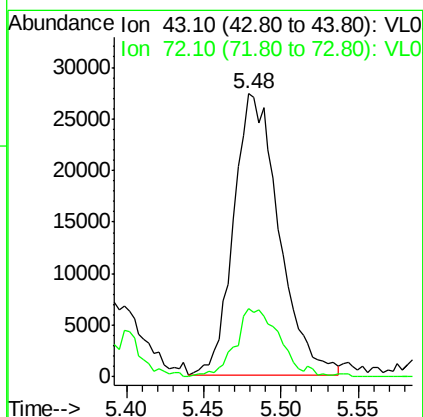
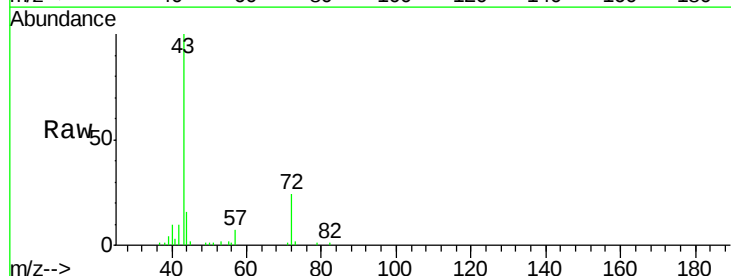
Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.8	29.8
88	17.7	14.2	21.4

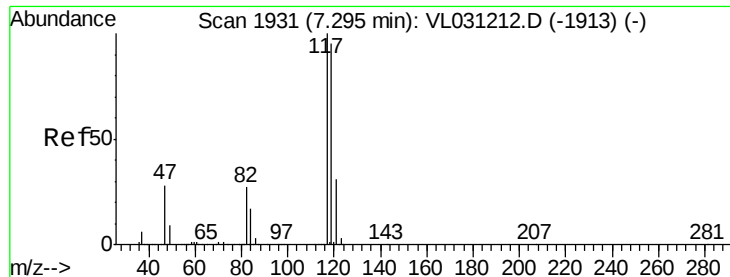


#34
 2-Butanone
 Concen: 0.241 ppbv
 RT: 5.48 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Tgt Ion: 43 Resp: 55783

Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.1	27.1





#35

Carbon Tetrachloride

Concen: 0.042 ppbv

RT: 7.29 min Scan# 1928

Delta R.T. -0.01 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

ClientSampleId :

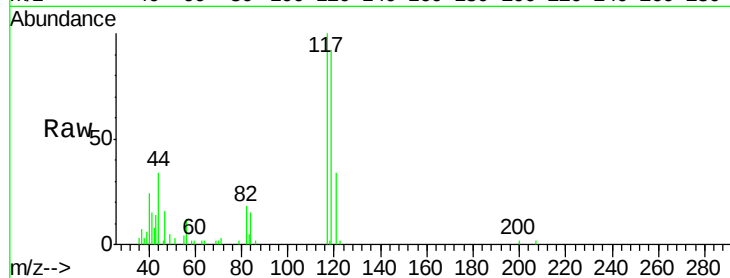
Tot Ion:117 Resp: 9929

Ion Ratio Lower Upper

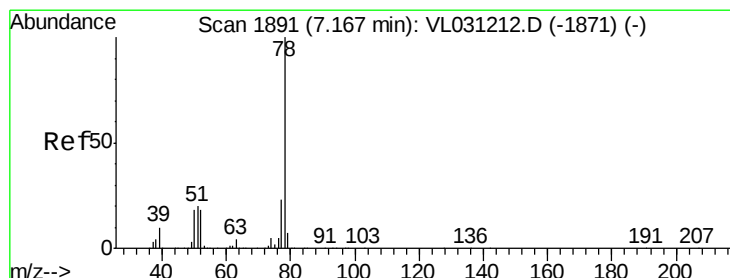
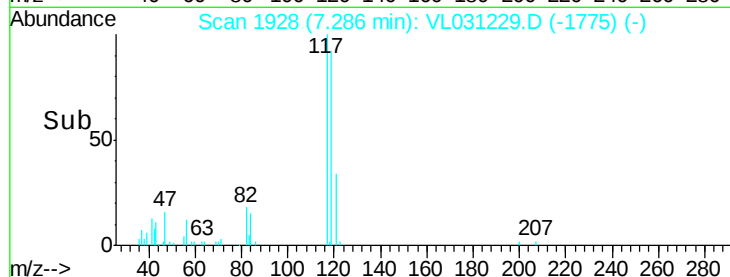
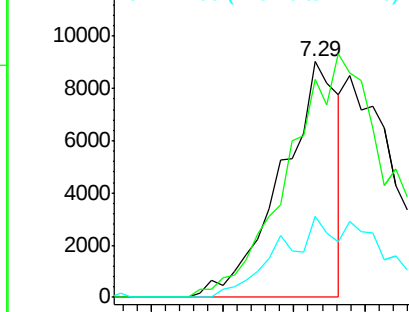
117 100

119 92.2 75.9 113.9

121 34.3 24.6 37.0



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: 0.279 ppbv

RT: 7.16 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

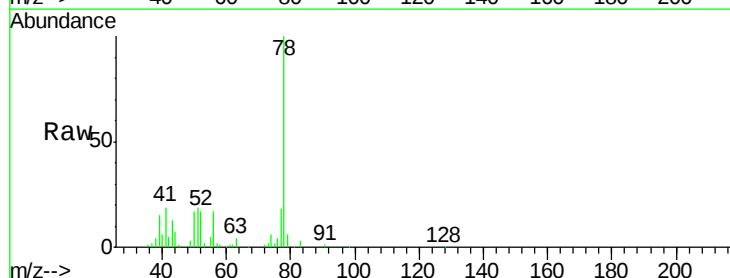
Tgt Ion: 78 Resp: 96928

Ion Ratio Lower Upper

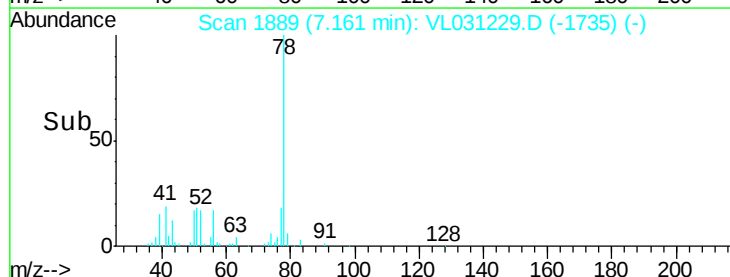
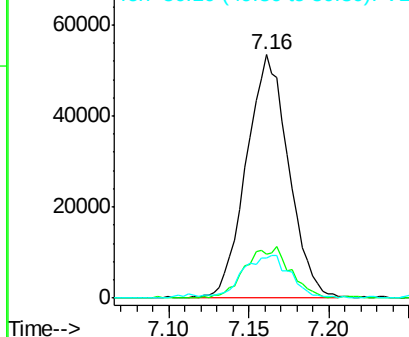
78 100

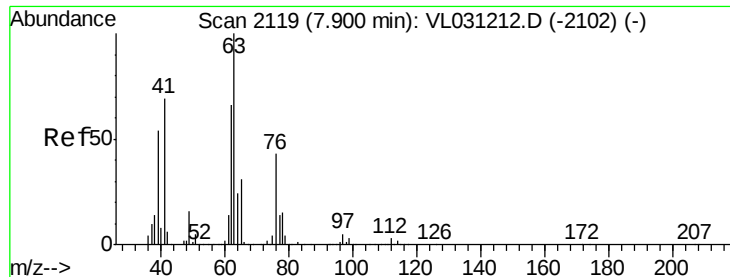
77 17.9 18.1 27.1#

50 16.2 14.6 21.8



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





#39

1,2-Dichloropropane

Concen: 6.453 ppbv

RT: 7.45 min Scan# 1978

Delta R.T. -0.45 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

ClientSampleId :

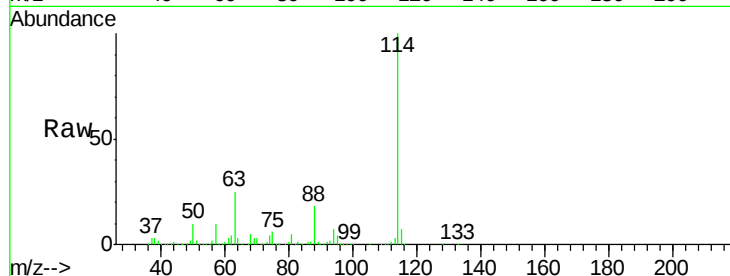
Tot Ion: 63 Resp: 792981

Ion Ratio Lower Upper

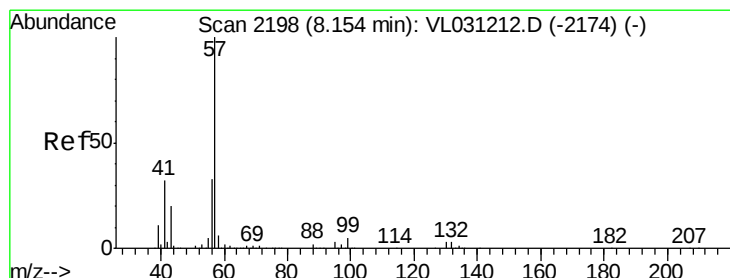
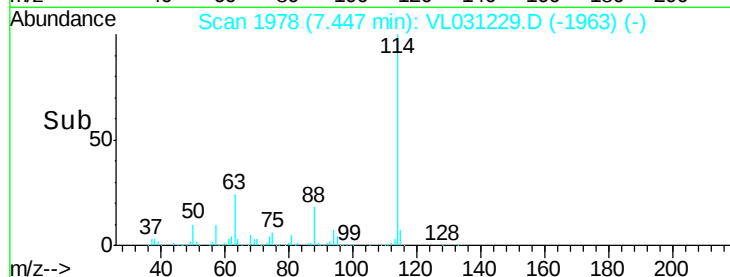
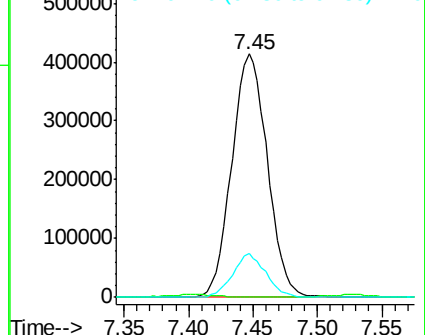
63 100

41 0.0 55.2 82.8#

62 17.9 53.0 79.4#



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



#44

2,2,4-Trimethylpentane

Concen: 0.048 ppbv

RT: 8.15 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

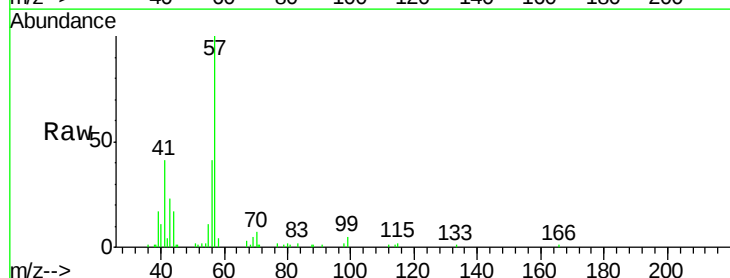
Tgt Ion: 57 Resp: 25186

Ion Ratio Lower Upper

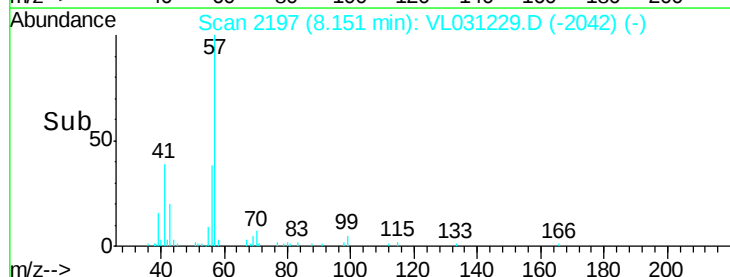
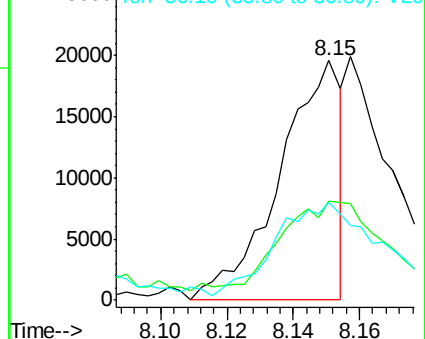
57 100

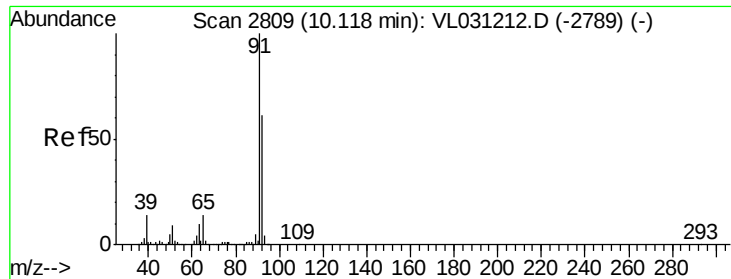
41 77.8 25.5 38.3#

56 84.2 25.0 37.6#



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





#53

Toluene

Concen: 0.268 ppbv

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

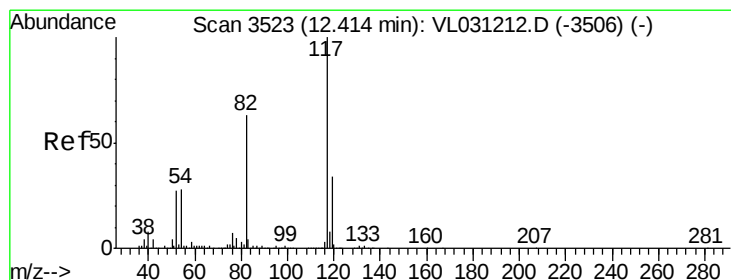
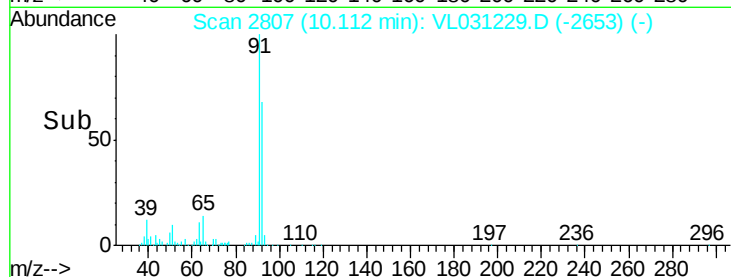
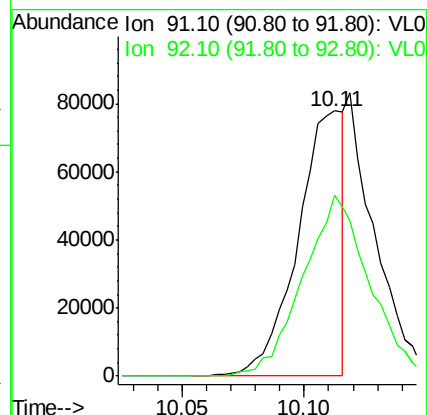
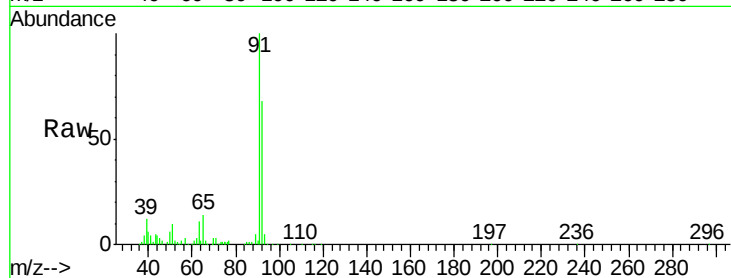
ClientSampleId :

Tot Ion: 91 Resp: 101012

Ion Ratio Lower Upper

91 100

92 99.9 49.1 73.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

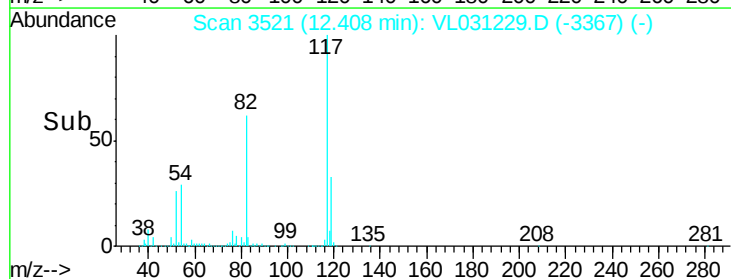
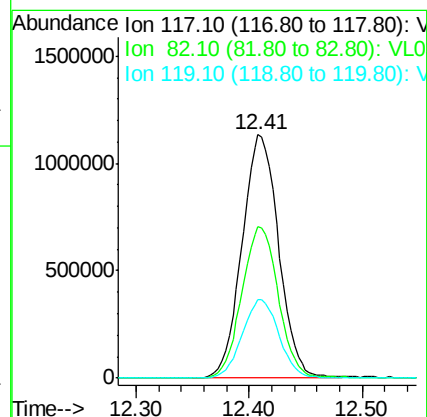
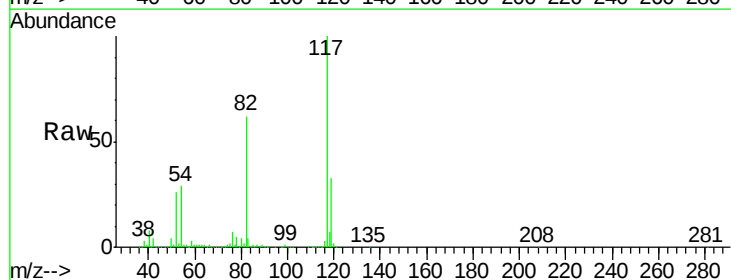
Tgt Ion: 117 Resp: 2555292

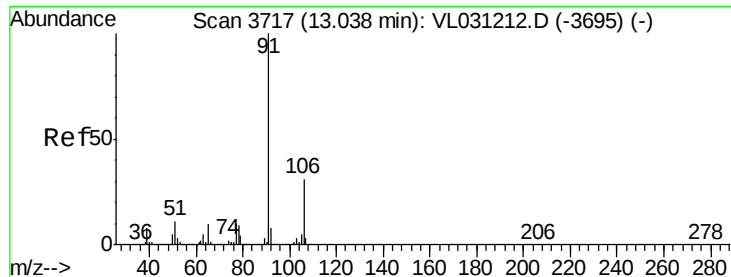
Ion Ratio Lower Upper

117 100

82 62.7 48.1 72.1

119 32.5 23.1 34.7

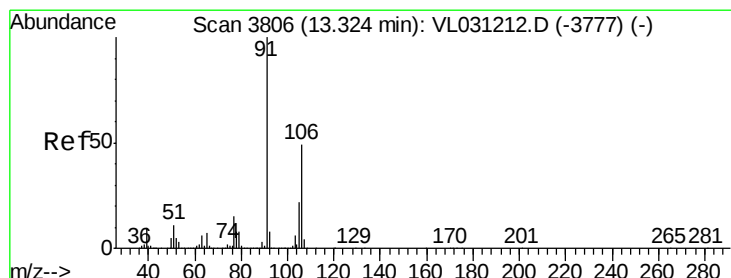
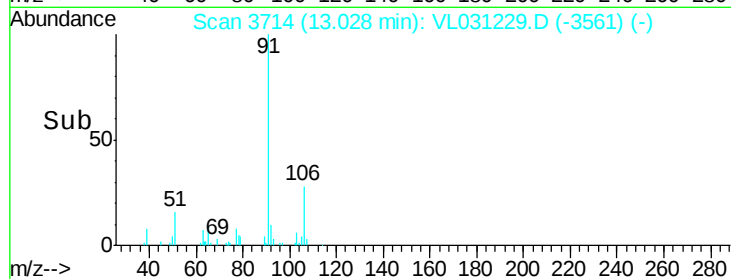
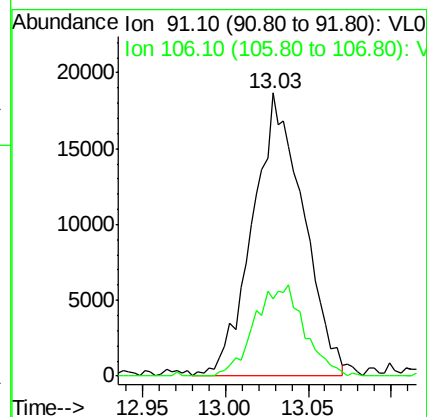
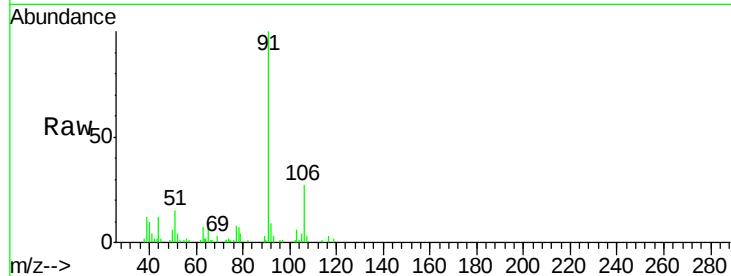




#58
Ethyl Benzene
Concen: 0.094 ppbv
RT: 13.03 min Scan# 3714
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

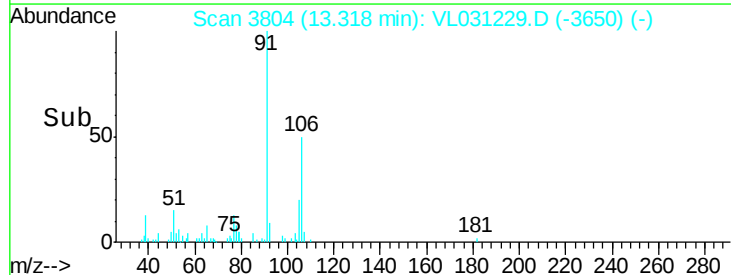
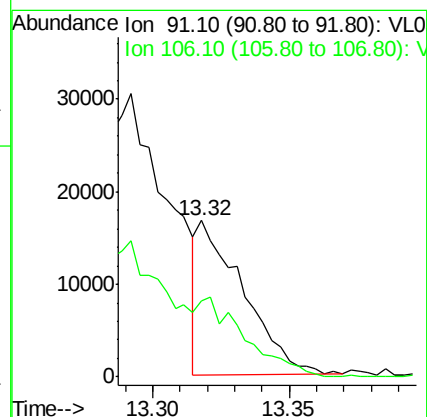
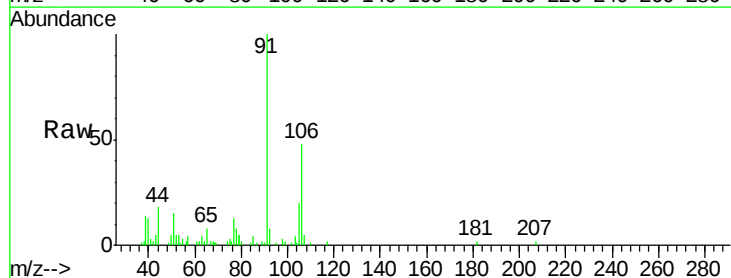
Instrument :
MSVOA_L
ClientSampleId :

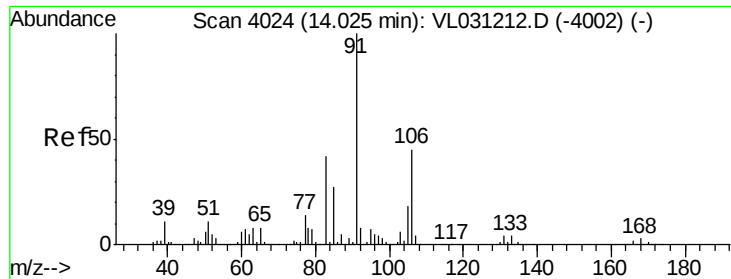
Tot Ion: 91 Resp: 39682
Ion Ratio Lower Upper
91 100
106 27.3 25.1 37.7



#59
m/p-Xylene
Concen: 0.057 ppbv
RT: 13.32 min Scan# 3804
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion: 91 Resp: 19165
Ion Ratio Lower Upper
91 100
106 0.0 38.5 57.7#

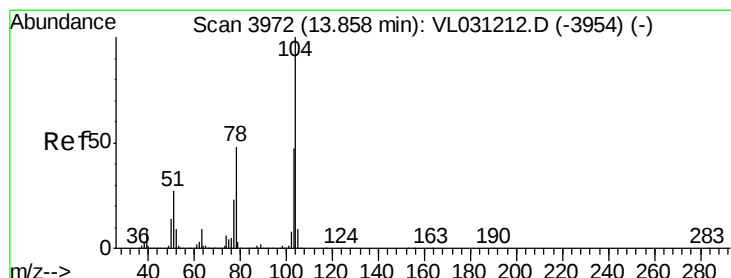
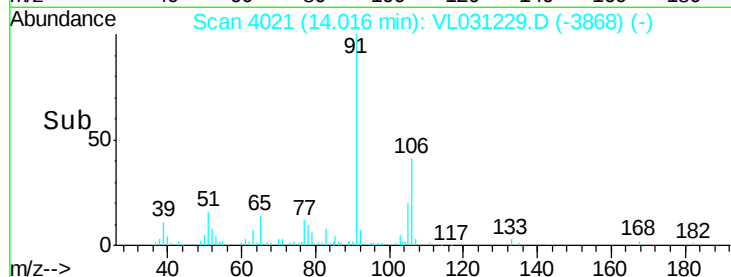
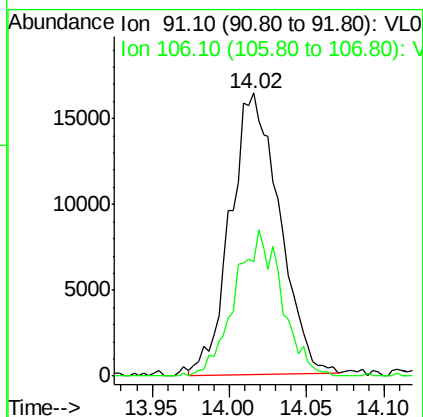
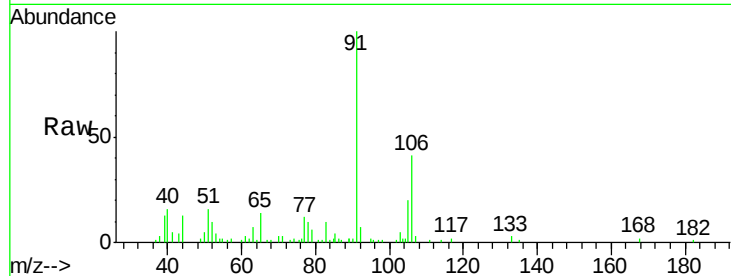




#60
o-Xylene
Concen: 0.106 ppbv
RT: 14.02 min Scan# 4021
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

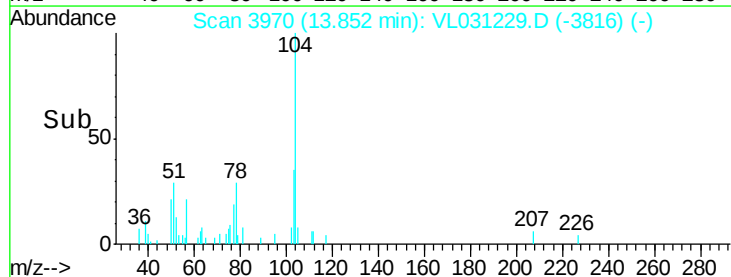
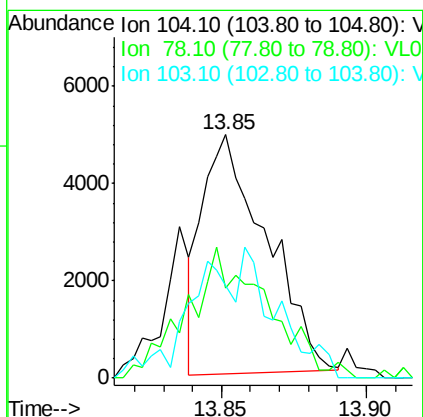
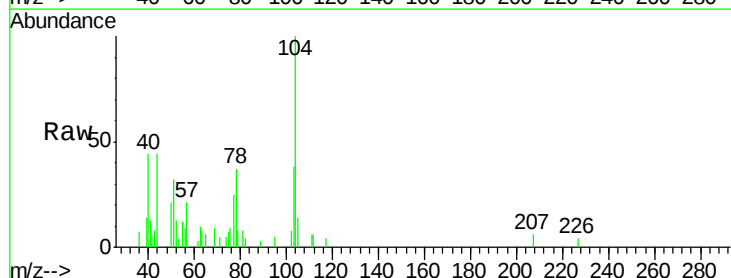
Instrument :
MSVOA_L
ClientSampled :

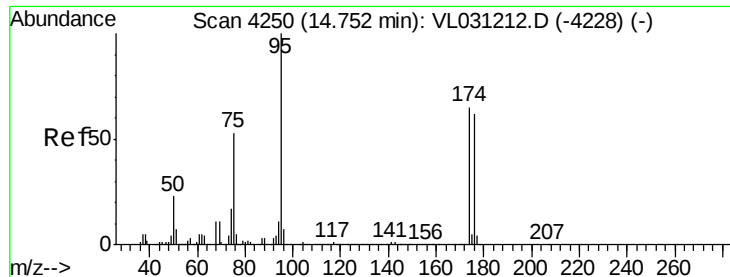
Tot Ion: 91 Resp: 36032
Ion Ratio Lower Upper
91 100
106 49.3 22.7 68.1



#61
Styrene
Concen: 0.077 ppbv
RT: 13.85 min Scan# 3970
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion:104 Resp: 7544
Ion Ratio Lower Upper
104 100
78 69.4 39.1 58.7#
103 69.0 37.3 55.9#

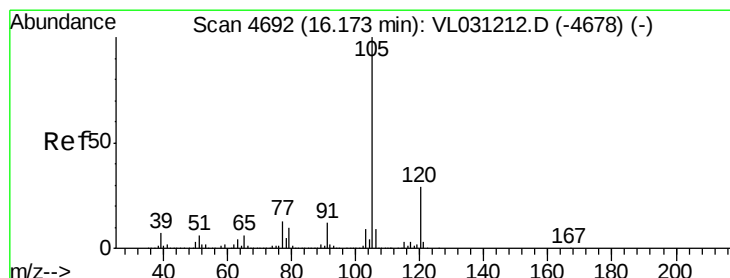
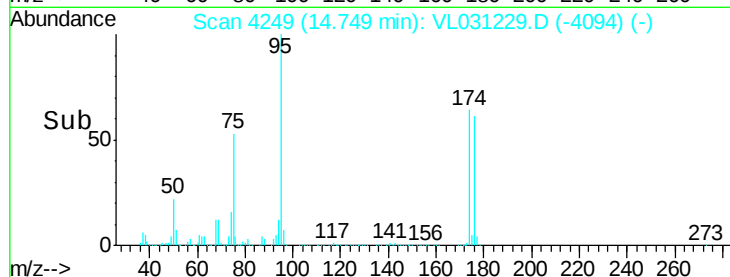
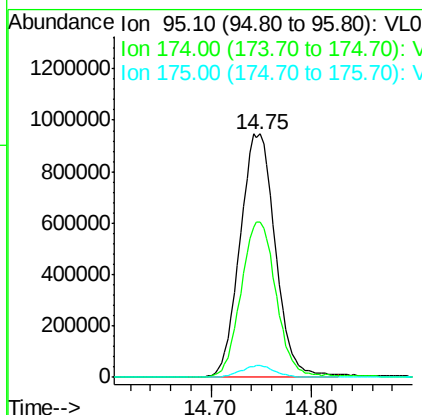
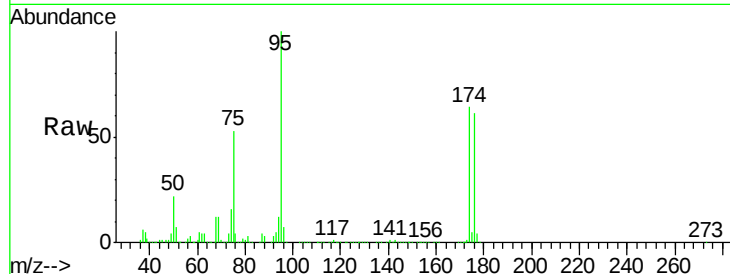




#68
 1-Bromo-4-Fluorobenzene
 Concen: 12.664 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

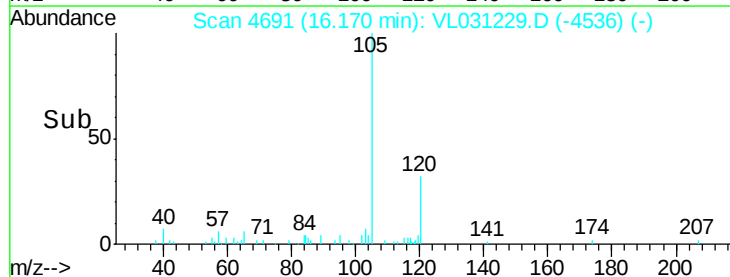
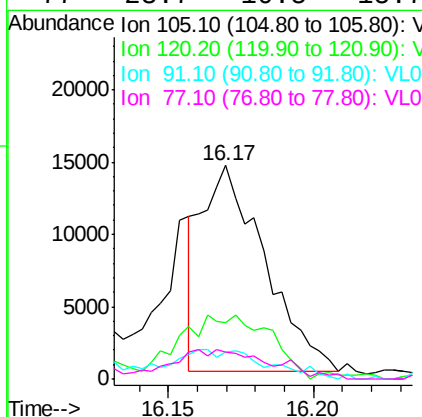
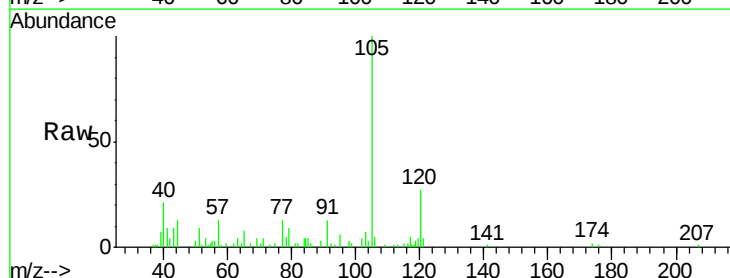
Instrument :
 MSVOA_L
 ClientSampleId :

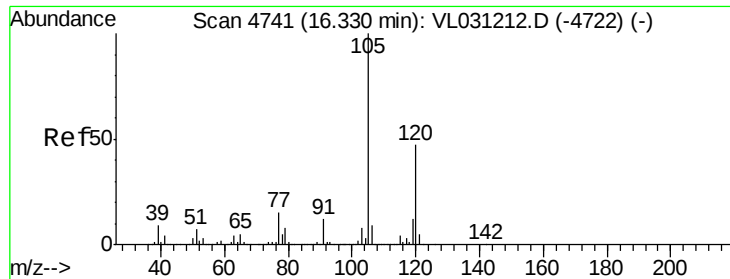
Tot Ion: 95 Resp: 2301792
 Ion Ratio Lower Upper
 95 100
 174 64.1 52.5 78.7
 175 4.8 4.1 6.1



#72
 4-Ethyltoluene
 Concen: 0.057 ppbv
 RT: 16.17 min Scan# 4691
 Delta R.T. -0.00 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Tgt Ion: 105 Resp: 21427
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.2 36.2#
 91 19.9 9.8 14.8#
 77 23.7 10.5 15.7#

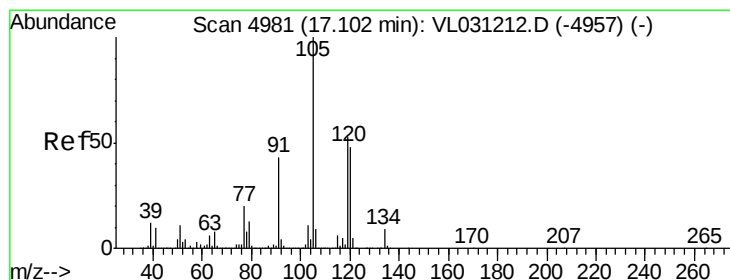
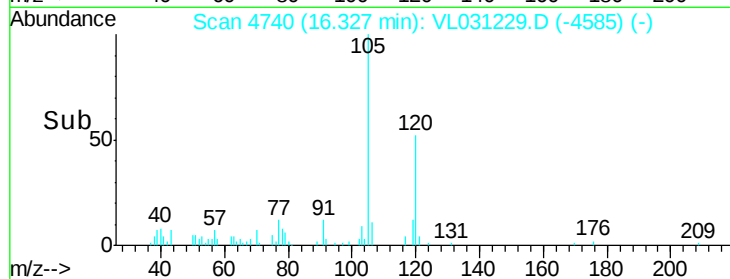
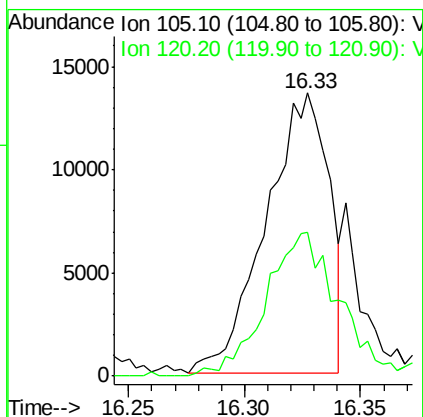
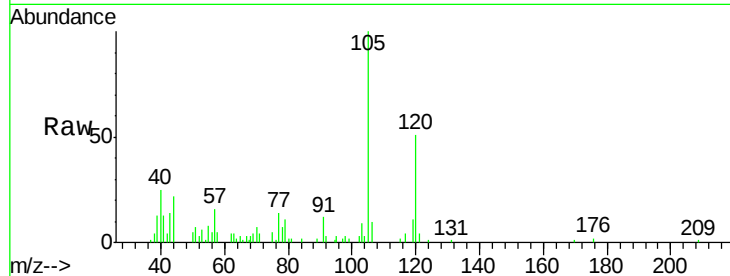




#73
 1,3,5-Trimethylbenzene
 Concen: 0.077 ppbv
 RT: 16.33 min Scan# 4740
 Delta R.T. -0.00 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

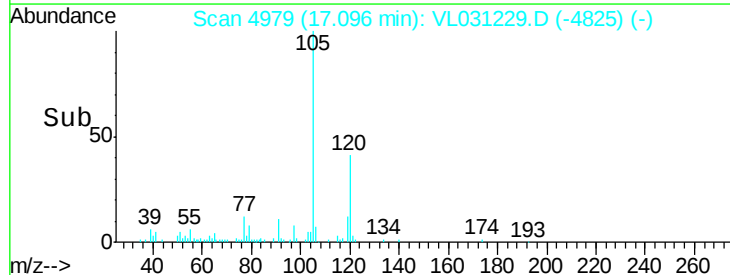
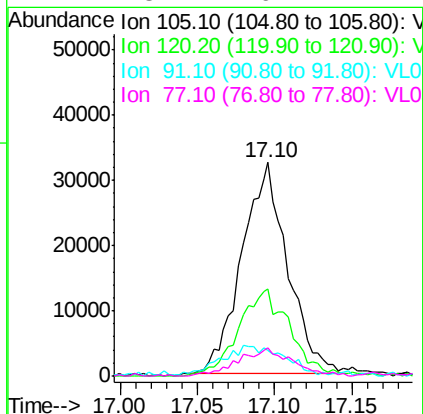
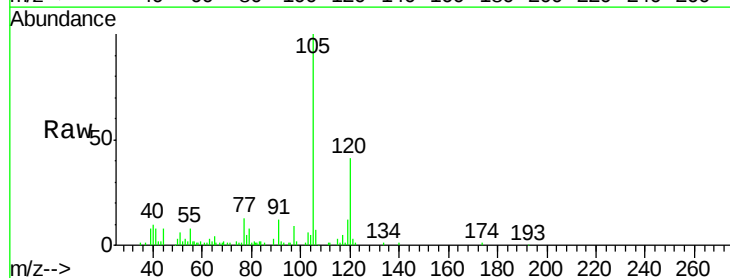
Instrument :
 MSVOA_L
 ClientSampleId :

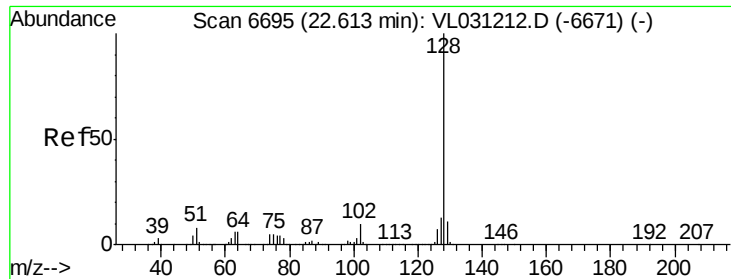
Tot Ion:105 Resp: 25556
 Ion Ratio Lower Upper
 105 100
 120 51.4 37.8 56.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.191 ppbv
 RT: 17.10 min Scan# 4979
 Delta R.T. -0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Tgt Ion:105 Resp: 66579
 Ion Ratio Lower Upper
 105 100
 120 40.7 38.6 58.0
 91 10.9 34.2 51.4#
 77 13.4 16.1 24.1#





#79

Naphthalene

Concen: 0.032 ppbv

RT: 22.62 min Scan# 6696

Delta R.T. 0.00 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:128 Resp: 9177

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.2

129 10.3 8.9 13.3

