

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034229.D
 Acq On : 7 Oct 2019 19:38
 Operator : SY/AP
 Sample : K5225-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Quant Time: Oct 09 02:21:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

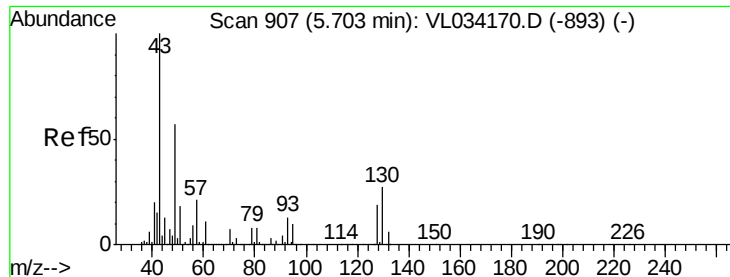
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1161342	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.22	114	1880646	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1958899	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1781915	10.47	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	104629	0.610	ppbv	89
3) Chlorodifluoromethane	2.97	51	1772741	13.019	ppbv	99
4) Chloromethane	3.12	50	34873	0.436	ppbv	89
7) Chloroethane	3.54	64	7138	0.279	ppbv #	80
9) Propene	3.00	41	84524	1.258	ppbv #	78
10) Heptane	8.16	43	27136	0.155	ppbv #	30
11) Trichlorofluoromethane	3.95	101	40882	0.262	ppbv #	80
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7349	0.072	ppbv	94
13) Ethanol	3.60	45	1732831	106.518	ppbv	98
15) Acetone	3.84	43	1378071	8.854	ppbv	98
16) 1,3-Butadiene	3.29	39	21081	0.310	ppbv #	37
17) tert-Butyl alcohol	4.31	59	8908	0.090	ppbv #	72
19) Isopropyl Alcohol	3.97	45	800376	8.362	ppbv #	98
20) Methylene Chloride	4.34	84	18006	0.401	ppbv #	78
23) Vinyl Acetate	5.08	43	75163	0.328	ppbv #	48
25) Ethyl Acetate	5.70	43	192024	0.652	ppbv #	96
26) Hexane	5.71	57	55039	0.450	ppbv #	49
29) Chloroform	5.77	83	28260	0.162	ppbv	90
34) 2-Butanone	5.26	43	94002	0.490	ppbv	98
35) Carbon Tetrachloride	7.06	117	9889	0.063	ppbv #	67
36) Benzene	6.92	78	44953	0.216	ppbv	95
37) 1,2-Dichloroethane	6.34	62	4458	0.030	ppbv #	85
39) 1,2-Dichloropropane	7.21	63	619052	6.633	ppbv #	20
43) Methyl Methacrylate	8.06	69	154599	1.802	ppbv	100
44) 2,2,4-Trimethylpentane	7.91	57	13711	0.034	ppbv #	1
53) Toluene	9.86	91	148472	0.654	ppbv	99
58) Ethyl Benzene	12.79	91	18265	0.058	ppbv	95
59) m/p-Xylene	13.06	91	29542	0.113	ppbv #	32
60) o-Xylene	13.77	91	9834	0.038	ppbv #	1
69) p-Isopropyltoluene	17.73	119	34302	0.100	ppbv #	75
74) 1,2,4-Trimethylbenzene	16.84	105	36543	0.120	ppbv #	66
75) 1,3-Dichlorobenzene	17.27	146	19250254	118.263	ppbv	76
76) 1,4-Dichlorobenzene	17.27	146	19250254	115.478	ppbv	74
79) Naphthalene	22.30	128	59409	0.222	ppbv #	92
80) Naphthalene,2-methyl-	25.05	142	11622	0.094	ppbv #	92

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034229.D

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MSVOA_L

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IA3

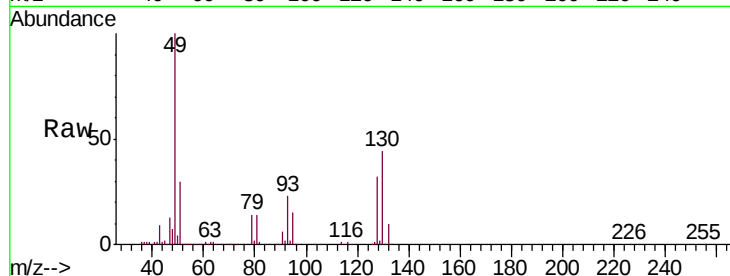
Tgt Ion: 49 Resp: 1161342

Ion Ratio Lower Upper

49 100

128 34.7 17.6 52.9

130 44.6 22.3 66.9



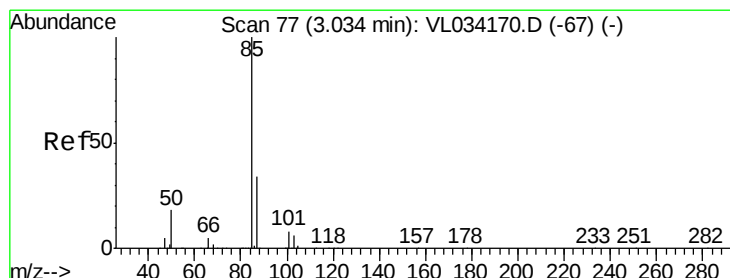
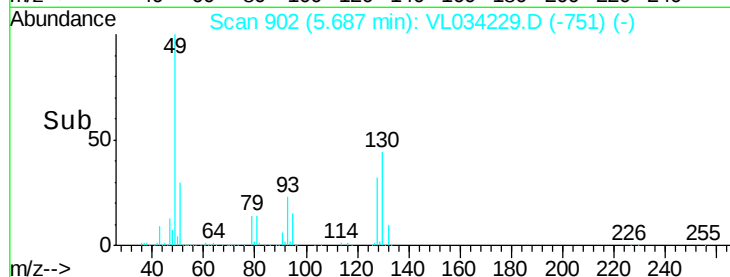
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.69

Time-->



#2

Dichlorodifluoromethane

Concen: 0.610 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034229.D

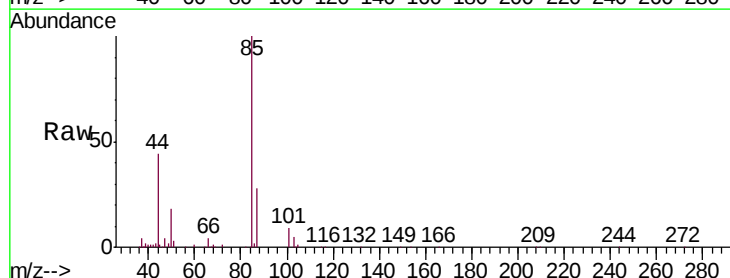
Acq: 7 Oct 2019 19:38

Tgt Ion: 85 Resp: 104629

Ion Ratio Lower Upper

85 100

87 27.9 27.2 40.8

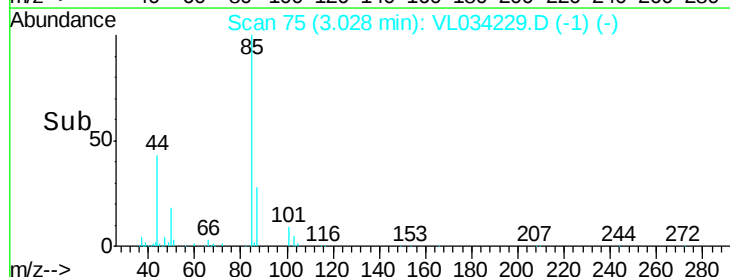


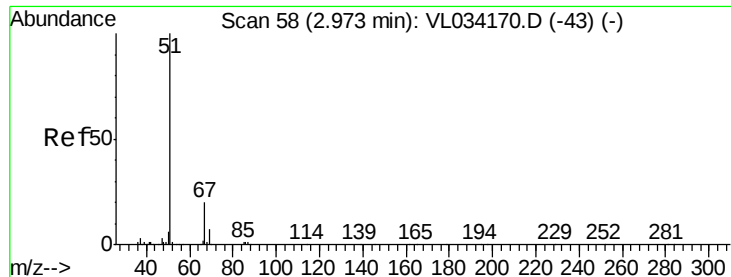
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.03

Time-->





#3

Chlorodifluoromethane

Concen: 13.019 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampled :

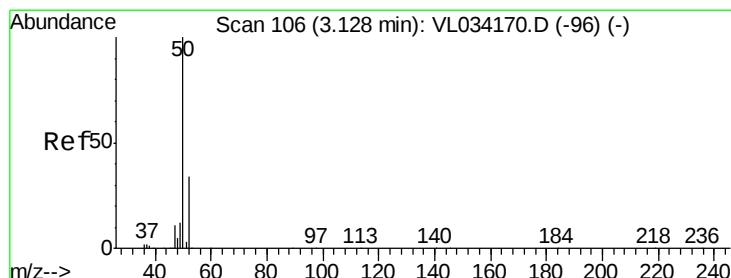
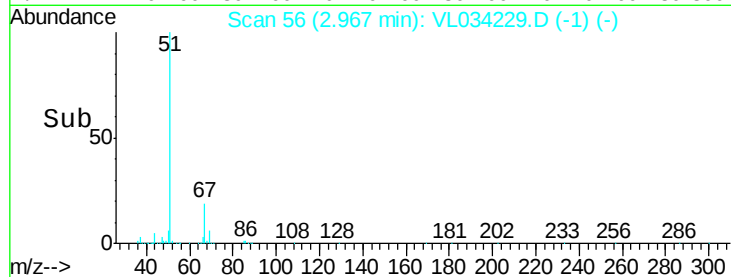
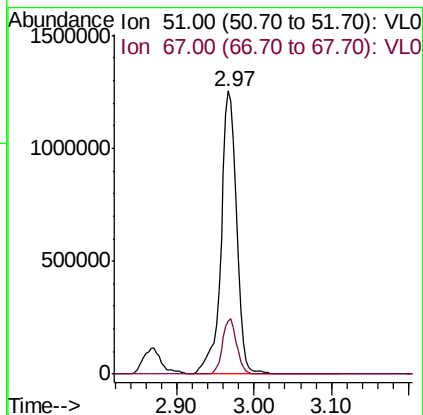
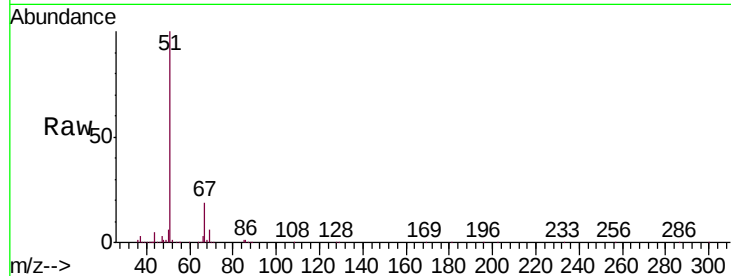
IA3

Tgt Ion: 51 Resp: 1772741

Ion Ratio Lower Upper

51 100

67 17.9 14.8 22.2



#4

Chloromethane

Concen: 0.436 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034229.D

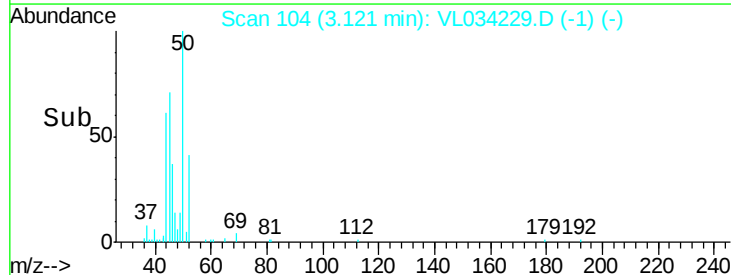
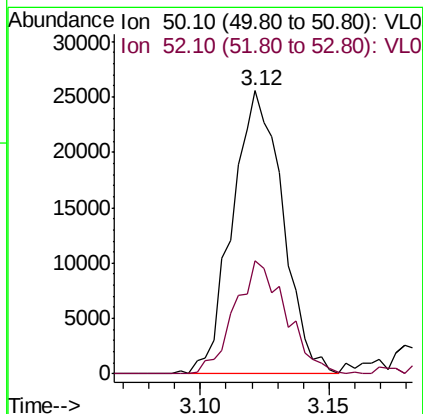
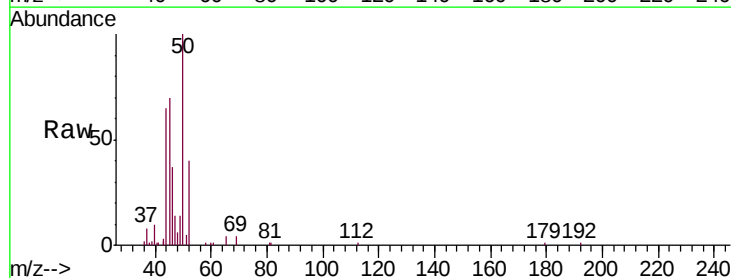
Acq: 7 Oct 2019 19:38

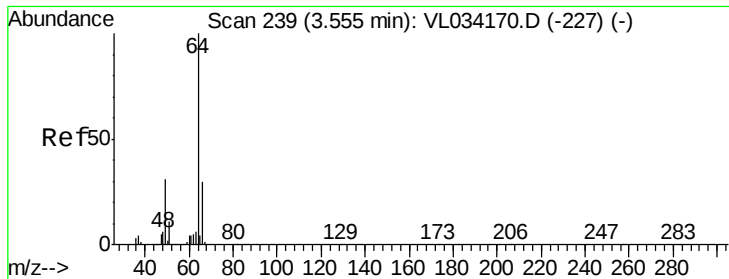
Tgt Ion: 50 Resp: 34873

Ion Ratio Lower Upper

50 100

52 40.1 27.1 40.7





#7

Chloroethane

Concen: 0.279 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.01 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampleId :

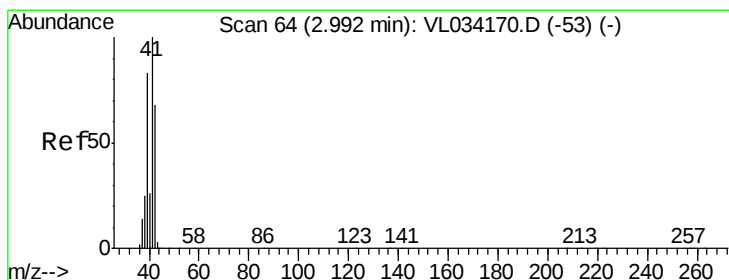
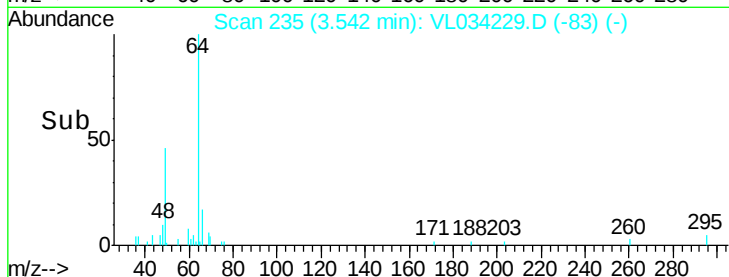
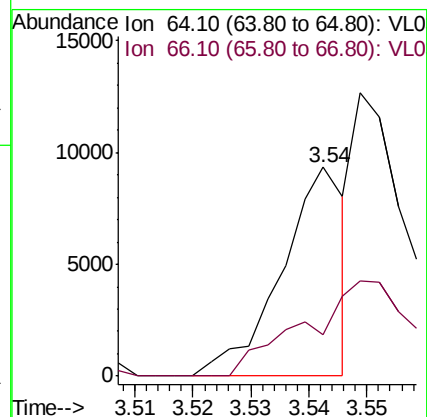
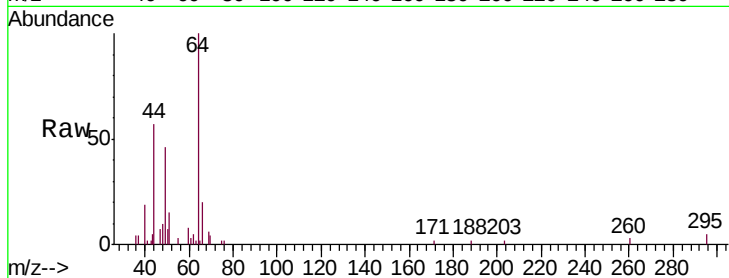
IA3

Tgt Ion: 64 Resp: 7138

Ion Ratio Lower Upper

64 100

66 19.6 24.2 36.4#



#9

Propene

Concen: 1.258 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL034229.D

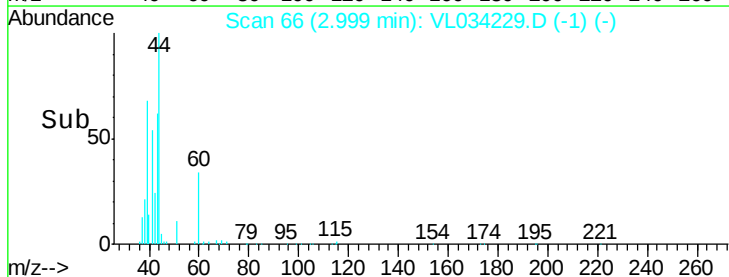
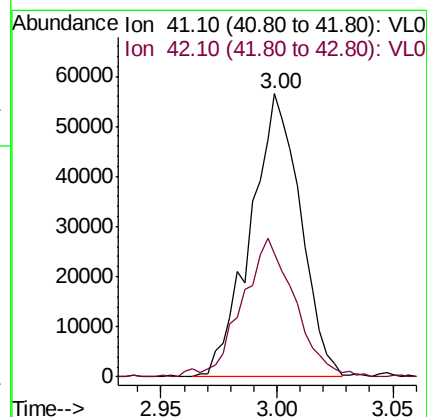
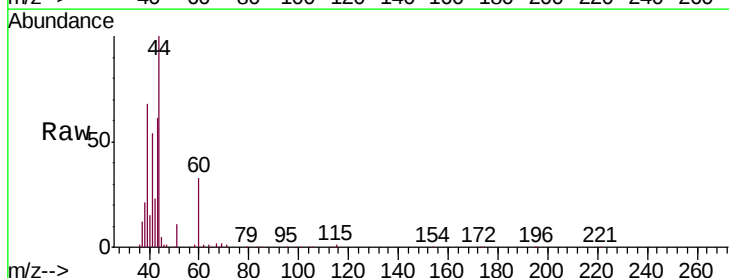
Acq: 7 Oct 2019 19:38

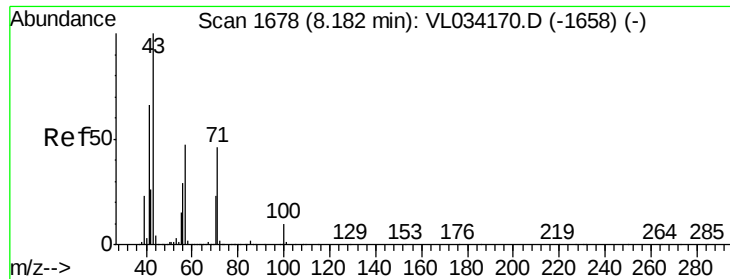
Tgt Ion: 41 Resp: 84524

Ion Ratio Lower Upper

41 100

42 52.0 55.8 83.6#





#10

Heptane

Concen: 0.155 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. -0.02 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampleId :

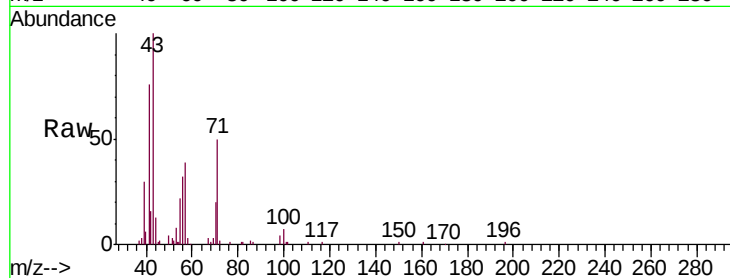
IA3

Tgt Ion: 43 Resp: 27136

Ion Ratio Lower Upper

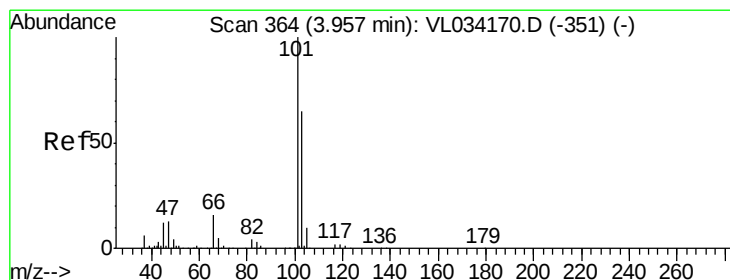
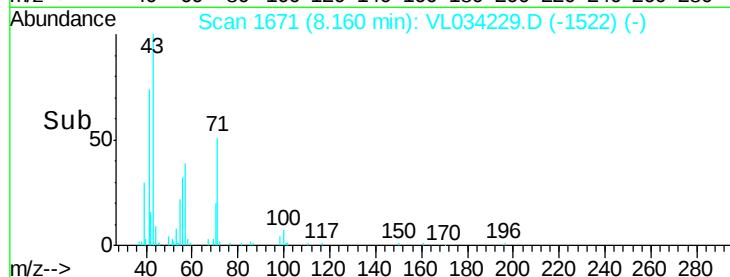
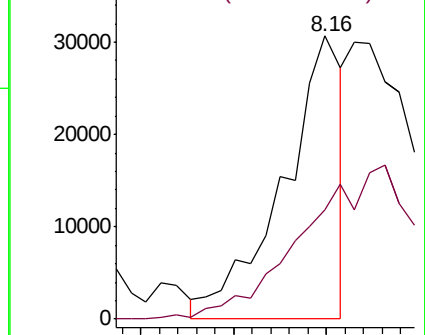
43 100

57 0.0 37.5 56.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.262 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034229.D

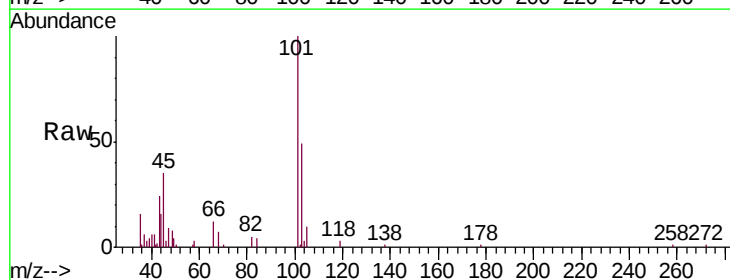
Acq: 7 Oct 2019 19:38

Tgt Ion: 101 Resp: 40882

Ion Ratio Lower Upper

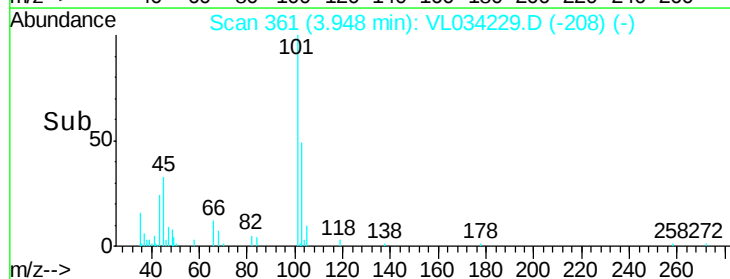
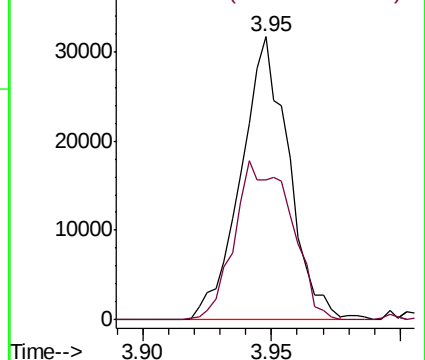
101 100

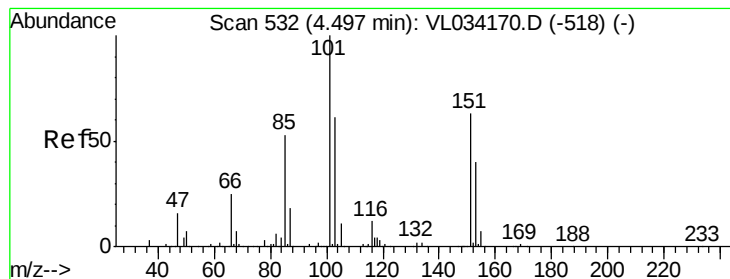
103 49.5 52.1 78.1#



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: 0.072 ppbv

RT: 4.49 min Scan# 530

Delta R.T. -0.01 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampleId :

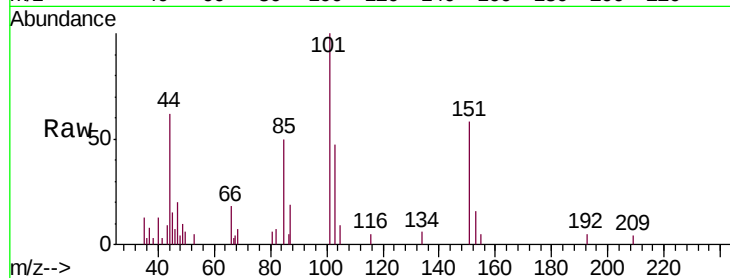
IA3

Tgt Ion:101 Resp: 7349

Ion Ratio Lower Upper

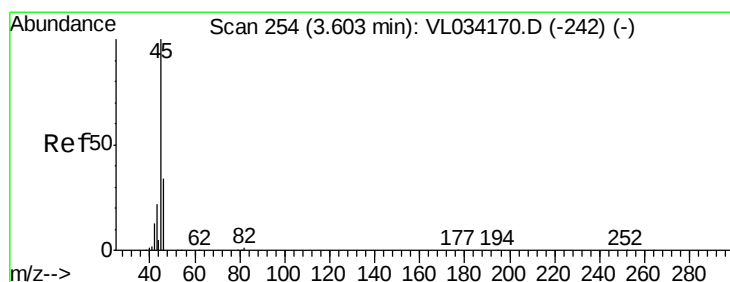
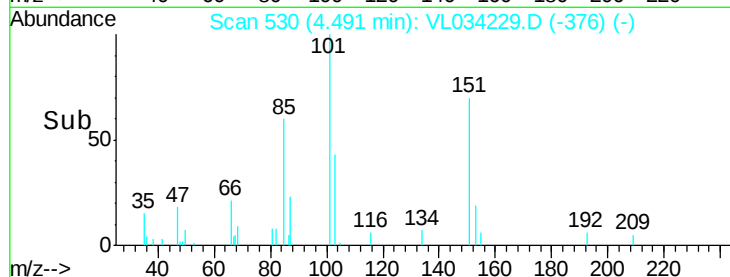
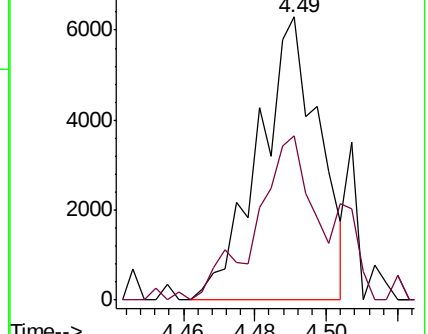
101 100

151 69.9 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 106.518 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL034229.D

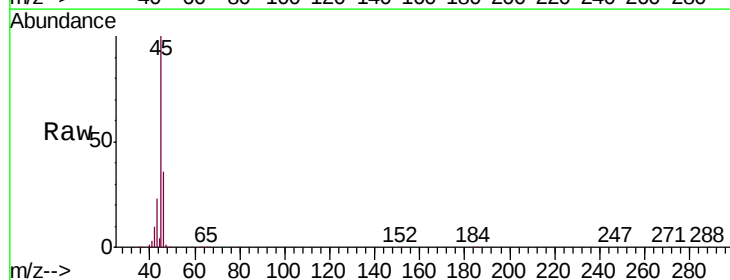
Acq: 7 Oct 2019 19:38

Tgt Ion: 45 Resp: 1732831

Ion Ratio Lower Upper

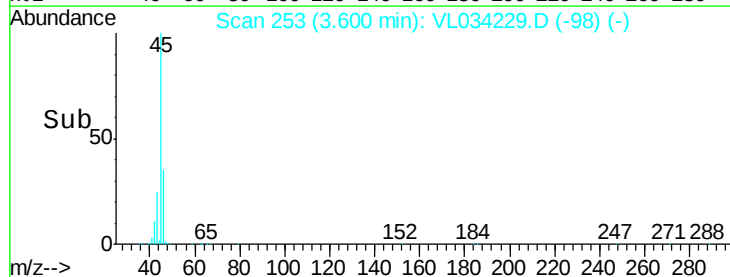
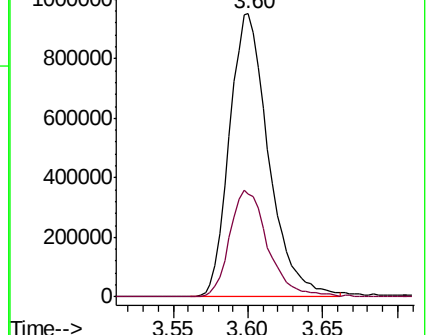
45 100

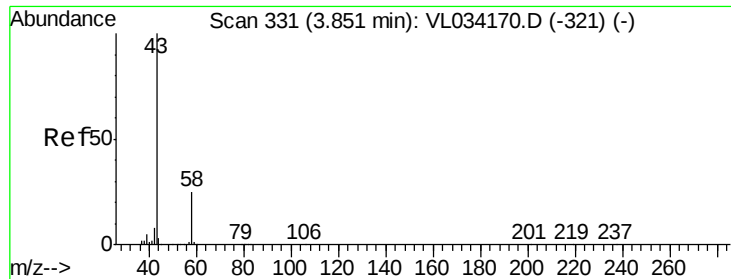
46 37.3 15.5 61.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 8.854 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

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ClientSampleId :

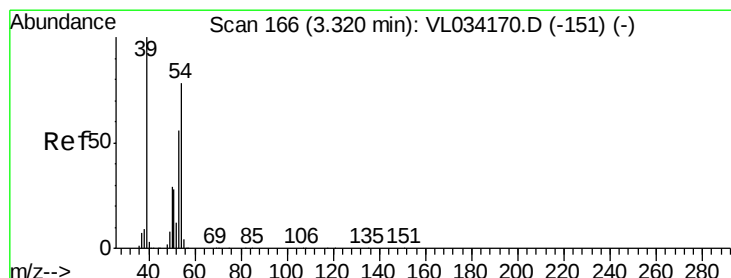
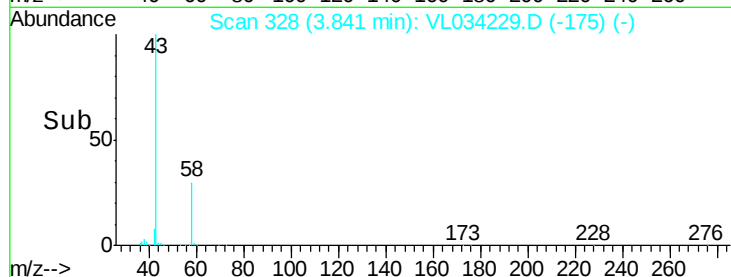
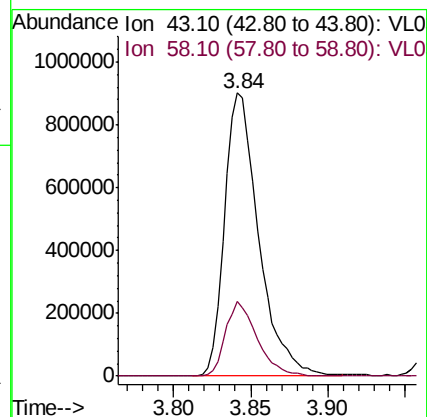
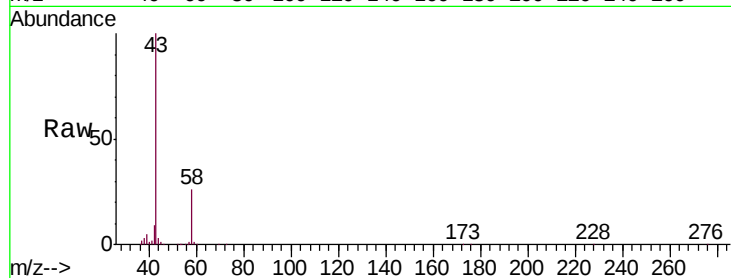
IA3

Tgt Ion: 43 Resp: 1378071

Ion Ratio Lower Upper

43 100

58 24.7 20.5 30.7



#16

1,3-Butadiene

Concen: 0.310 ppbv

RT: 3.29 min Scan# 158

Delta R.T. -0.03 min

Lab File: VL034229.D

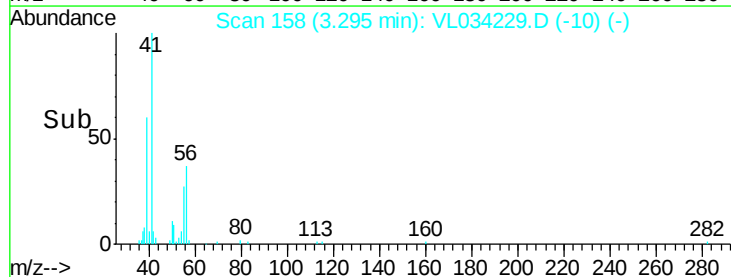
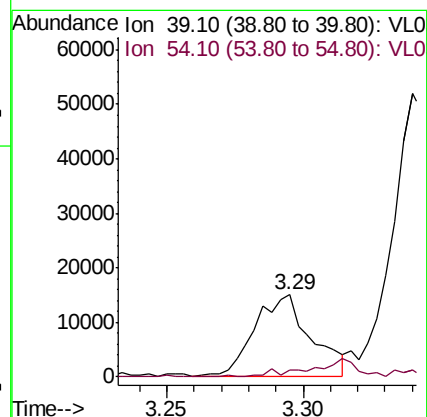
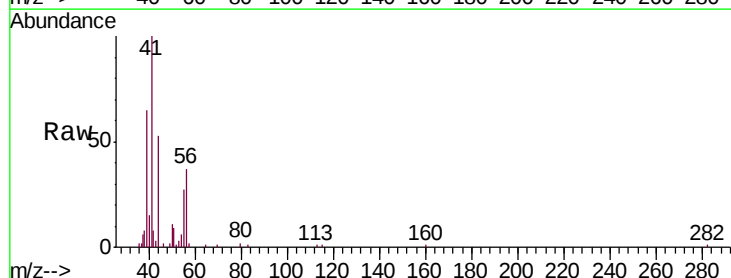
Acq: 7 Oct 2019 19:38

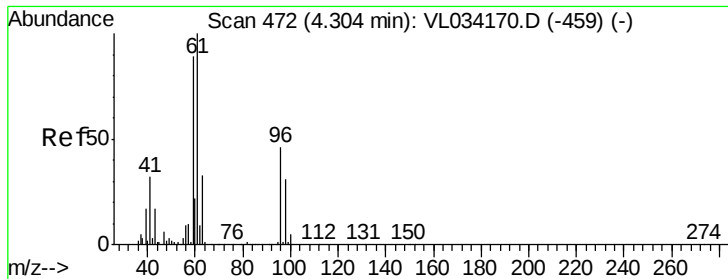
Tgt Ion: 39 Resp: 21081

Ion Ratio Lower Upper

39 100

54 23.7 63.4 95.0#



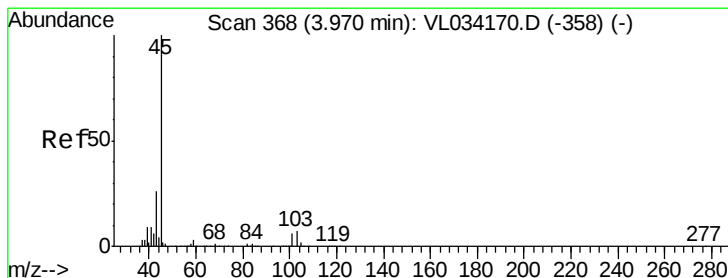
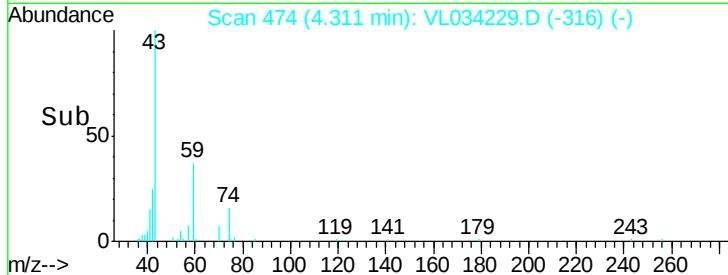
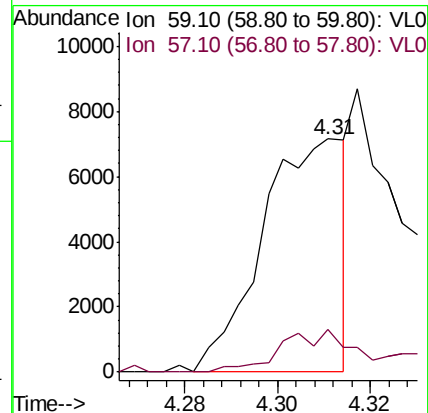
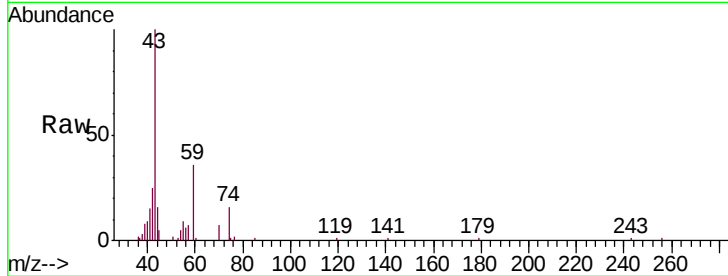


#17

tert-Butyl alcohol
Concen: 0.090 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Instrument :
MSVOA_L
ClientSampleId :
IA3

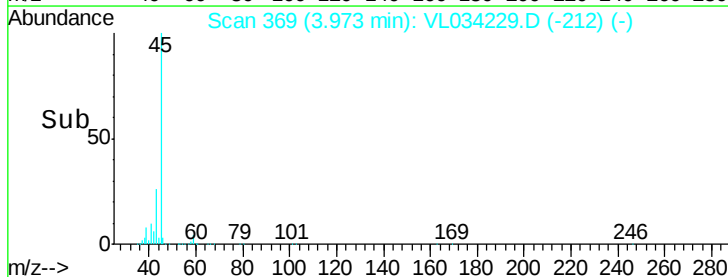
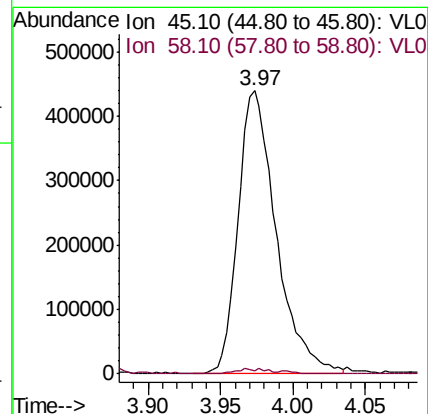
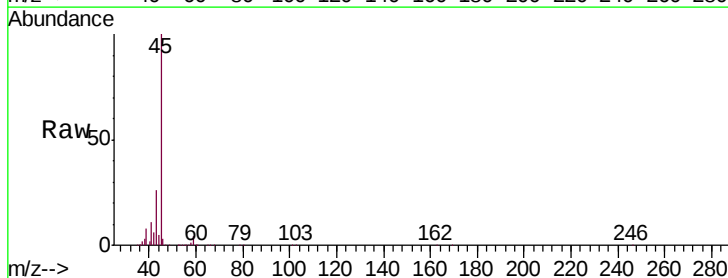
Tgt Ion: 59 Resp: 8908
Ion Ratio Lower Upper
59 100
57 21.6 8.7 13.1#

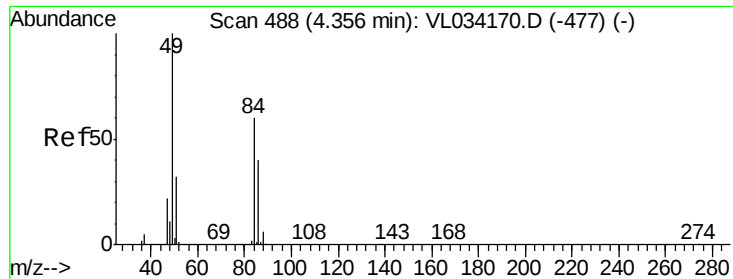


#19

Isopropyl Alcohol
Concen: 8.362 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.00 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Tgt Ion: 45 Resp: 800376
Ion Ratio Lower Upper
45 100
58 2.3 1.4 2.0#

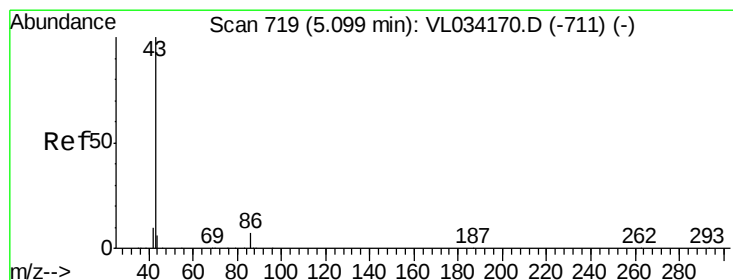
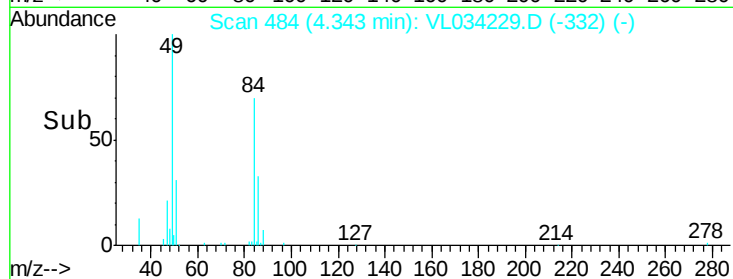
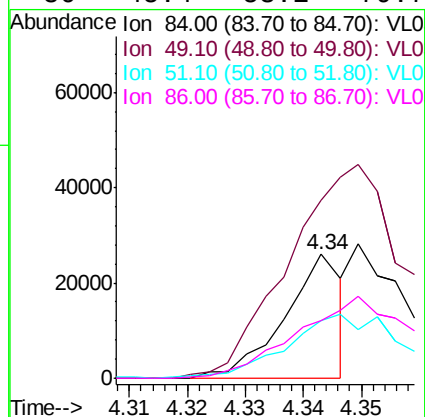
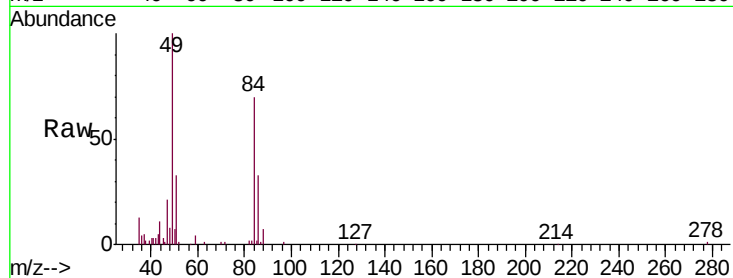




#20
Methylene Chloride
Concen: 0.401 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

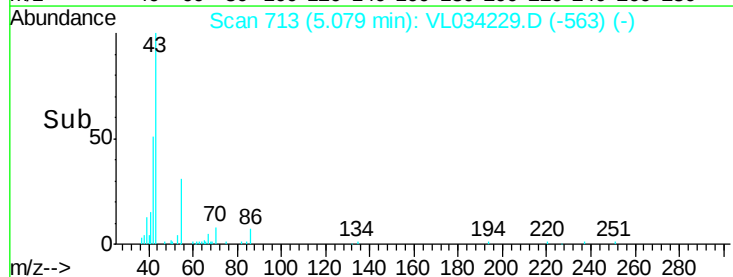
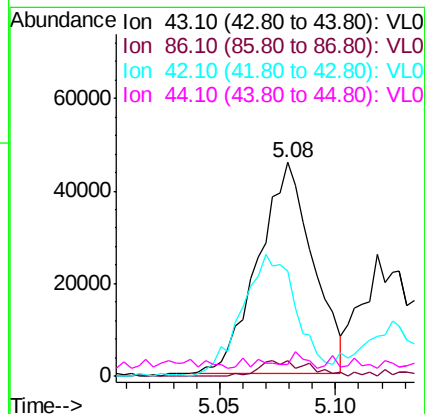
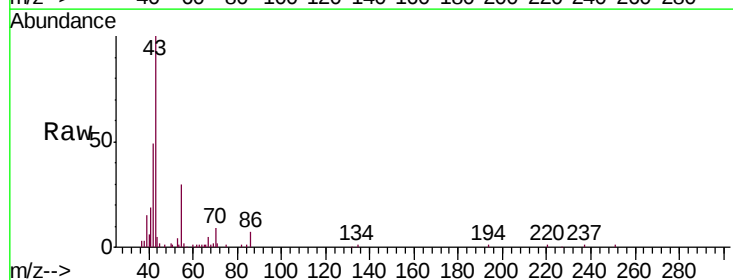
Instrument :
MSVOA_L
ClientSampleId :
IA3

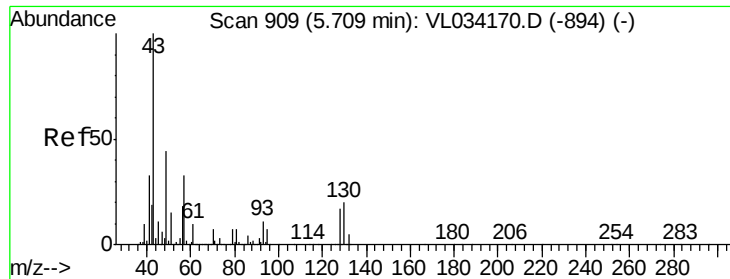
Tgt Ion: 84 Resp: 18006
Ion Ratio Lower Upper
84 100
49 136.9 133.8 200.8
51 44.4 43.6 65.4
86 45.4 53.1 79.7#



#23
Vinyl Acetate
Concen: 0.328 ppbv
RT: 5.08 min Scan# 713
Delta R.T. -0.02 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Tgt Ion: 43 Resp: 75163
Ion Ratio Lower Upper
43 100
86 7.2 5.1 7.7
42 49.7 8.6 12.8#
44 1.4 4.7 7.1#

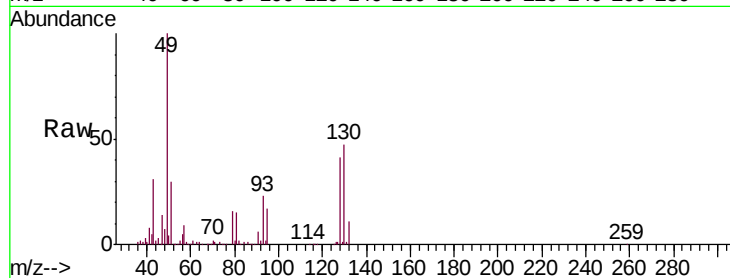




#25
Ethyl Acetate
Concen: 0.652 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion:	43	Resp:	192024
Ion	Ratio	Lower	Upper
43	100		
45	12.8	8.4	12.6#
61	8.4	7.2	10.8
70	5.8	5.3	7.9



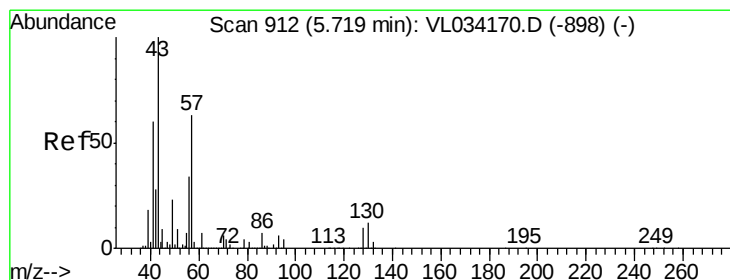
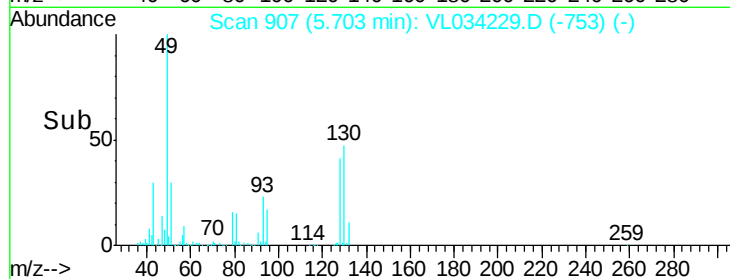
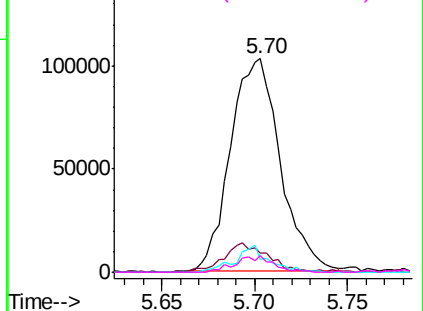
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

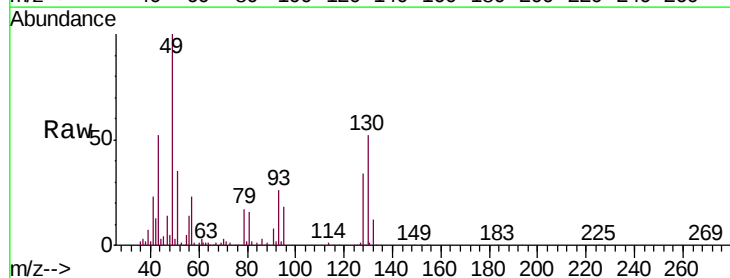
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.450 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Tgt Ion:	57	Resp:	55039
Ion	Ratio	Lower	Upper
57	100		
41	111.7	78.5	117.7
43	364.0	189.5	284.3#
56	59.7	43.2	64.8



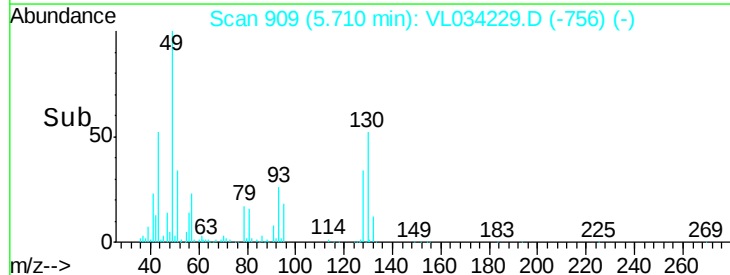
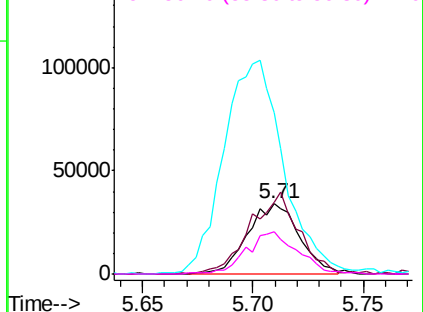
Abundance

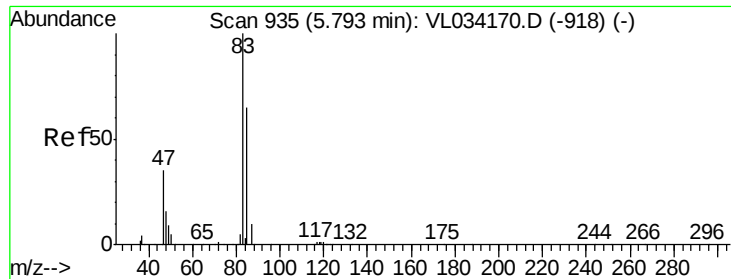
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#29

Chloroform

Concen: 0.162 ppbv

RT: 5.77 min Scan# 929

Delta R.T. -0.02 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampleId :

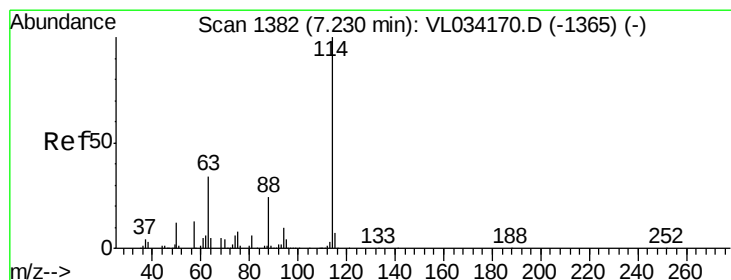
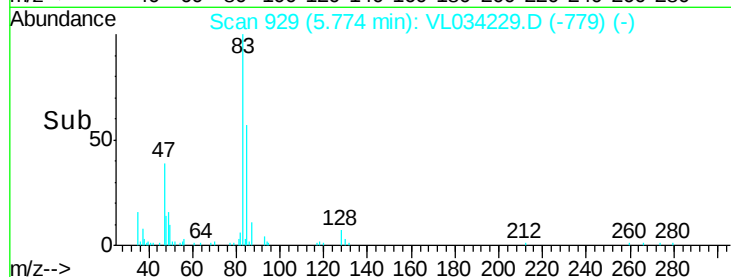
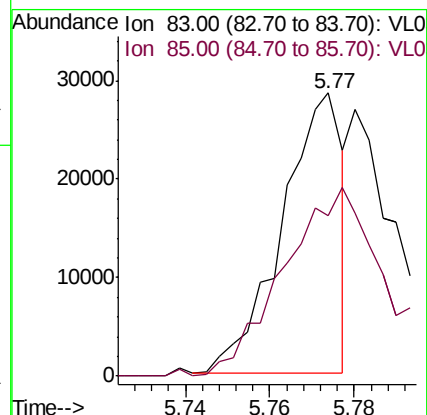
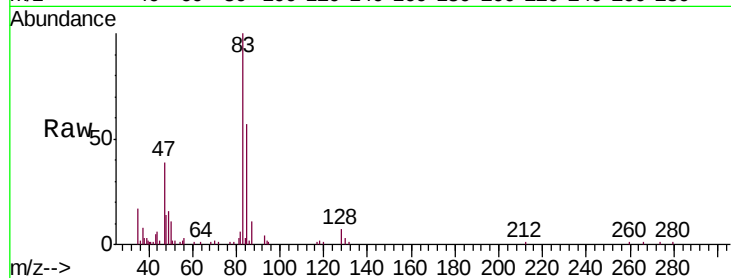
IA3

Tgt Ion: 83 Resp: 28260

Ion Ratio Lower Upper

83 100

85 57.5 52.3 78.5



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.22 min Scan# 1378

Delta R.T. -0.01 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

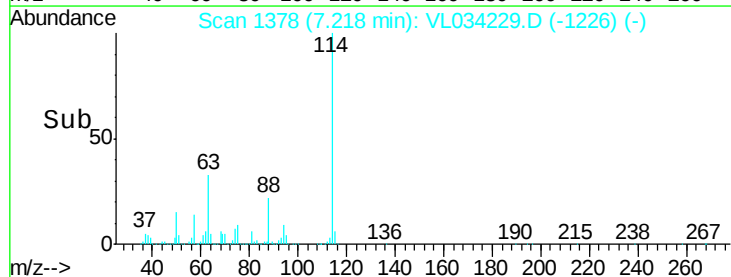
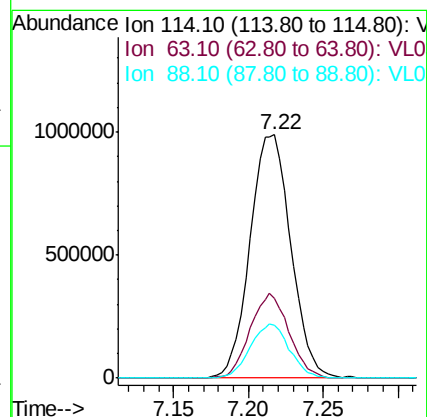
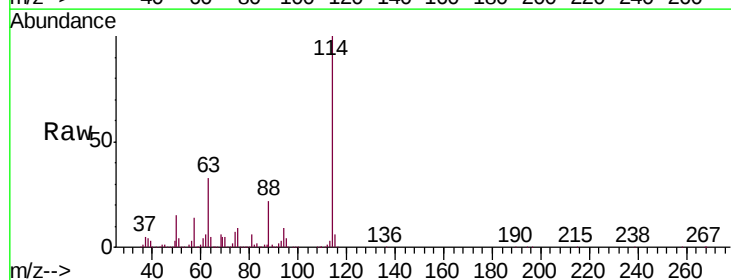
Tgt Ion: 114 Resp: 1880646

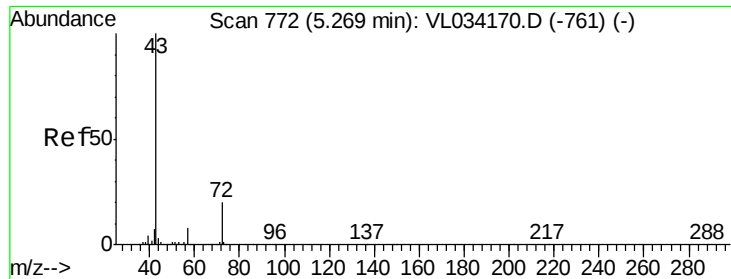
Ion Ratio Lower Upper

114 100

63 33.1 27.8 41.6

88 21.5 17.1 25.7

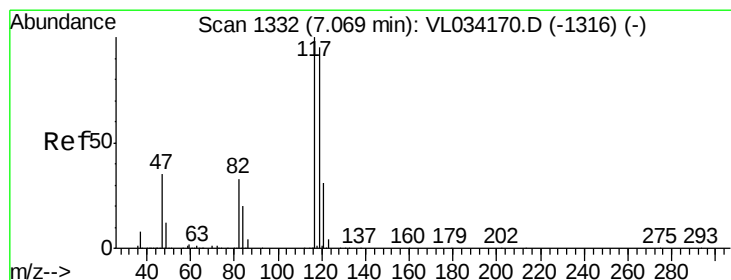
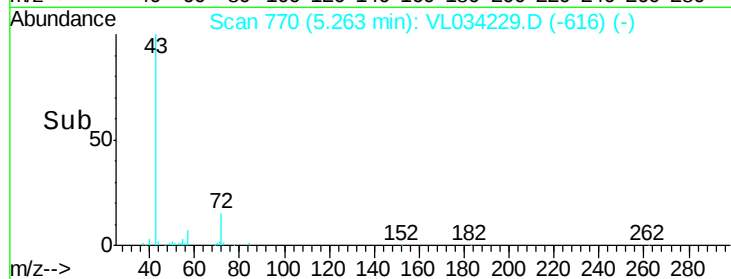
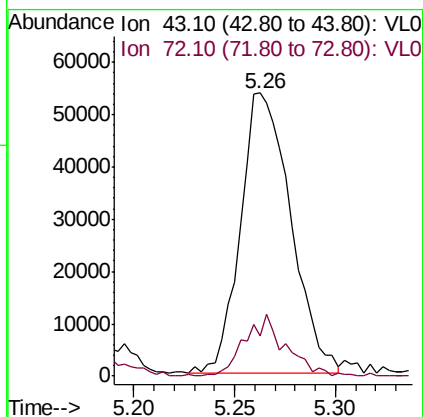
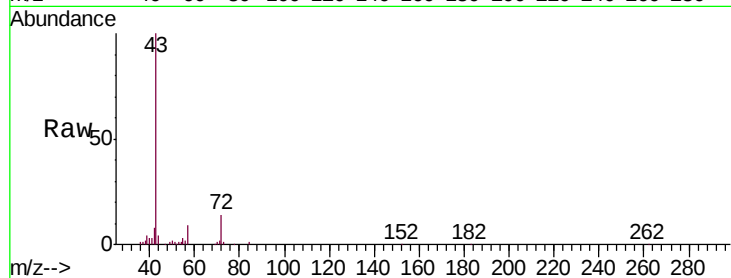




#34
2-Butanone
Concen: 0.490 ppbv
RT: 5.26 min Scan# 770
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

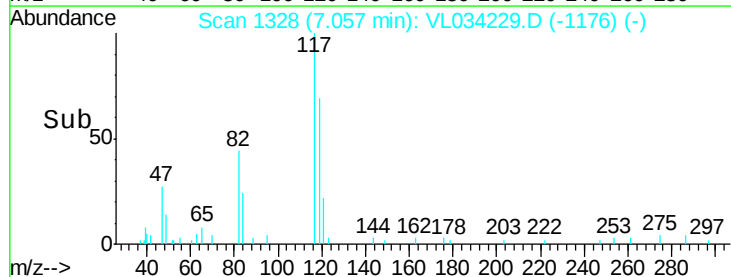
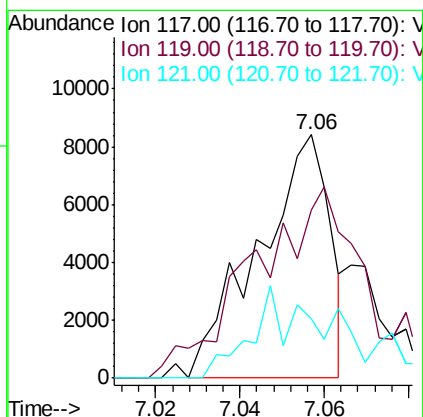
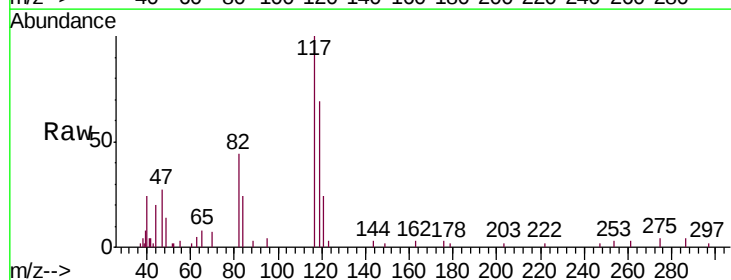
Instrument :
MSVOA_L
ClientSampled :
IA3

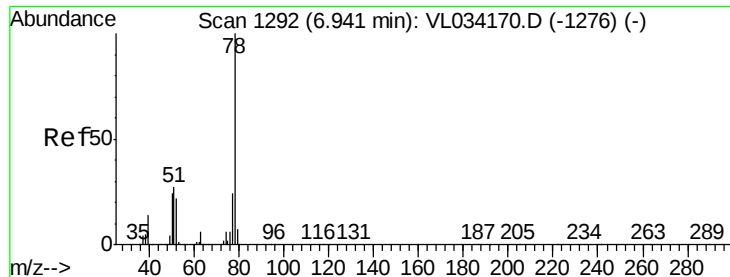
Tgt Ion: 43 Resp: 94002
Ion Ratio Lower Upper
43 100
72 17.9 15.0 22.6



#35
Carbon Tetrachloride
Concen: 0.063 ppbv
RT: 7.06 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Tgt Ion: 117 Resp: 9889
Ion Ratio Lower Upper
117 100
119 56.8 75.8 113.6#
121 24.3 25.0 37.6#





#36

Benzene

Concen: 0.216 ppbv

RT: 6.92 min Scan# 1287

Delta R.T. -0.02 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampleId :

IA3

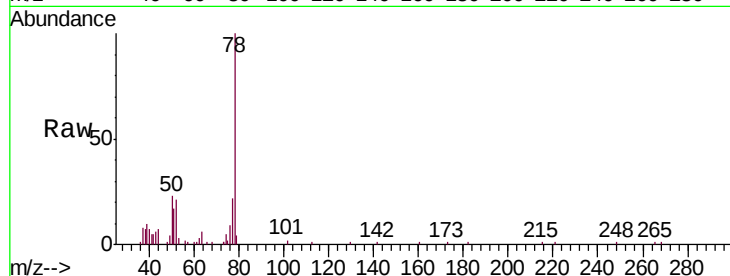
Tgt Ion: 78 Resp: 44953

Ion Ratio Lower Upper

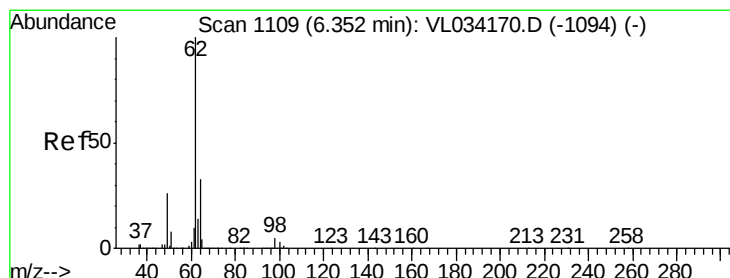
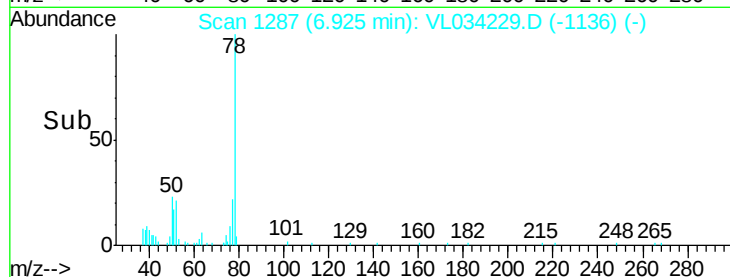
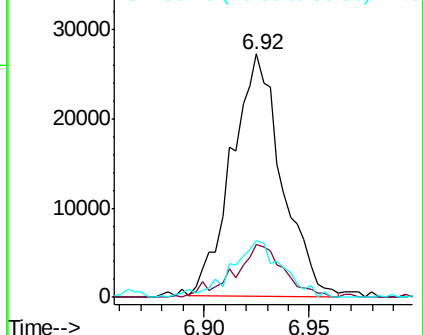
78 100

77 21.8 19.0 28.4

50 20.5 18.9 28.3



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



#37

1,2-Dichloroethane

Concen: 0.030 ppbv

RT: 6.34 min Scan# 1104

Delta R.T. -0.02 min

Lab File: VL034229.D

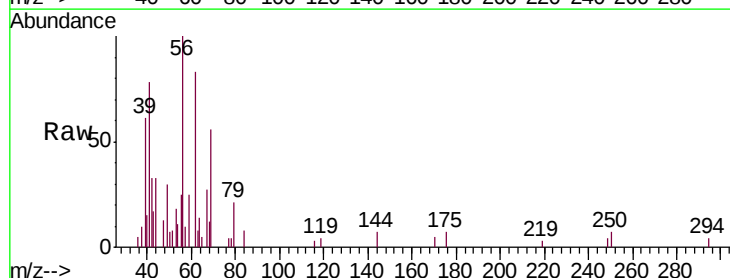
Acq: 7 Oct 2019 19:38

Tgt Ion: 62 Resp: 4458

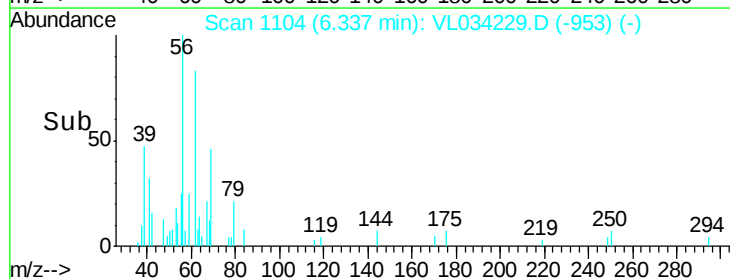
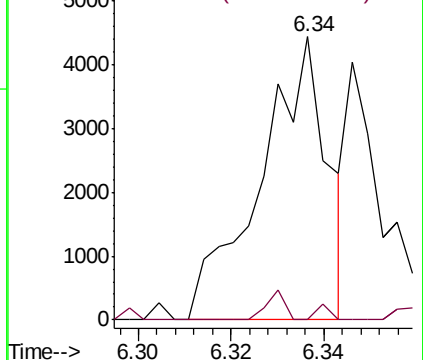
Ion Ratio Lower Upper

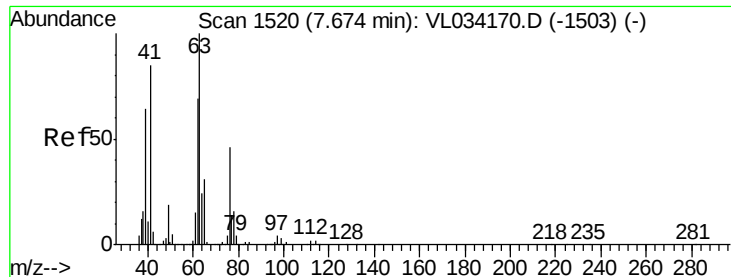
62 100

98 0.0 3.8 5.8#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0

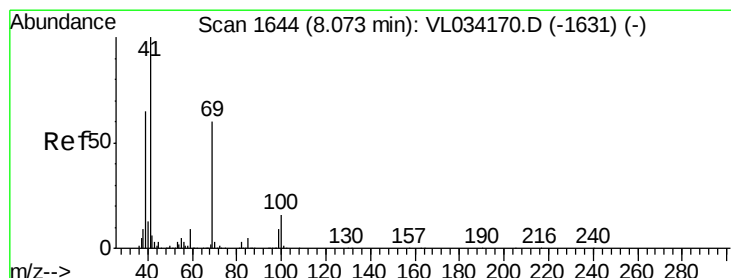
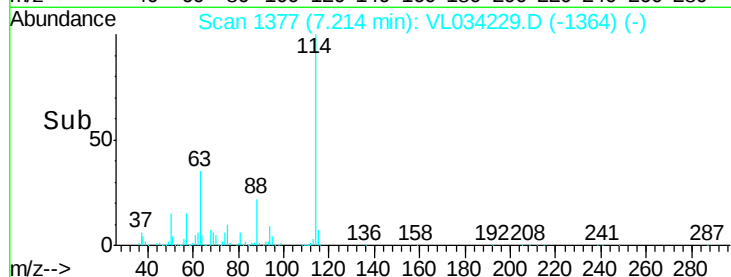
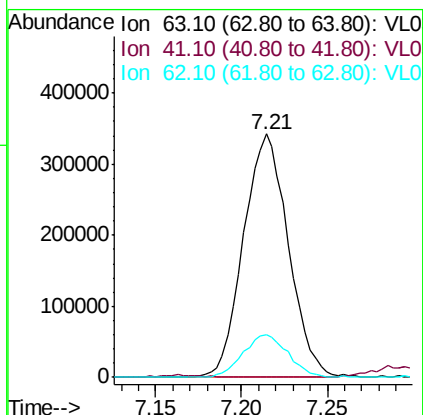
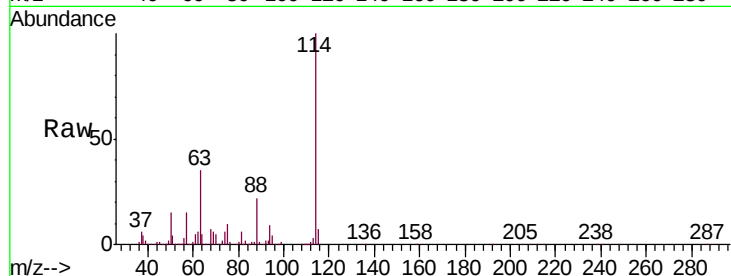




#39
 1,2-Dichloropropane
 Concen: 6.633 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.46 min
 Lab File: VL034229.D
 Acq: 7 Oct 2019 19:38

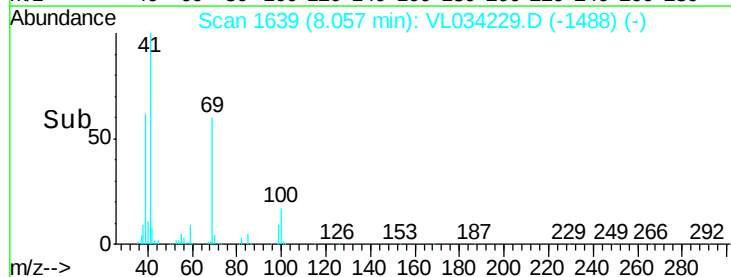
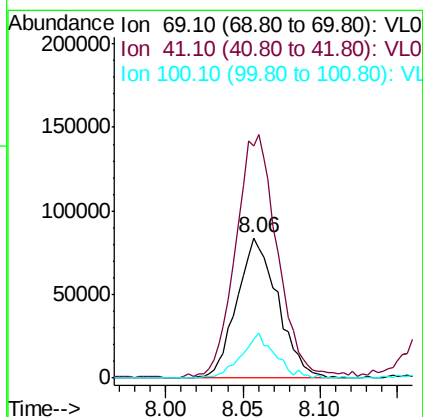
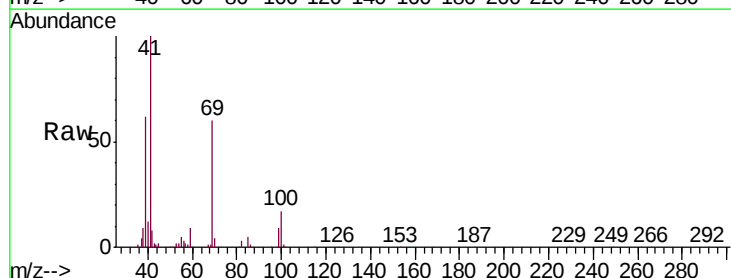
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

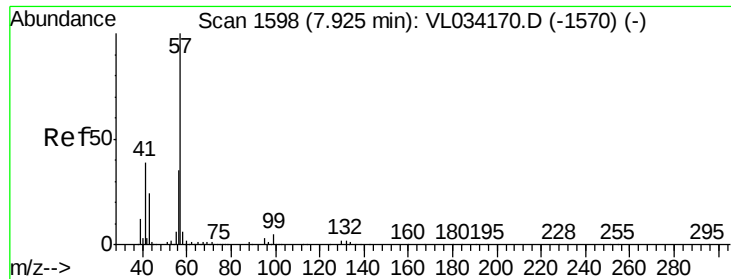
Tgt Ion: 63 Resp: 619052
 Ion Ratio Lower Upper
 63 100
 41 0.0 68.4 102.6#
 62 17.7 55.4 83.2#



#43
 Methyl Methacrylate
 Concen: 1.802 ppbv
 RT: 8.06 min Scan# 1639
 Delta R.T. -0.02 min
 Lab File: VL034229.D
 Acq: 7 Oct 2019 19:38

Tgt Ion: 69 Resp: 154599
 Ion Ratio Lower Upper
 69 100
 41 175.6 140.4 210.6
 100 26.6 21.9 32.9

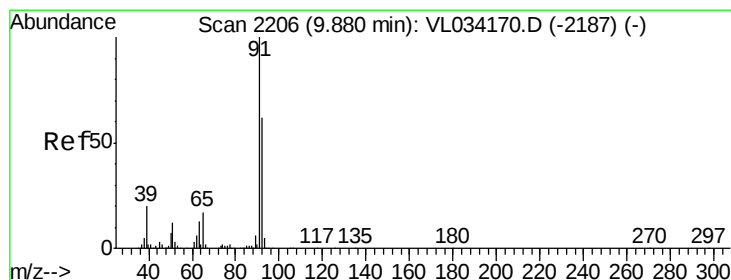
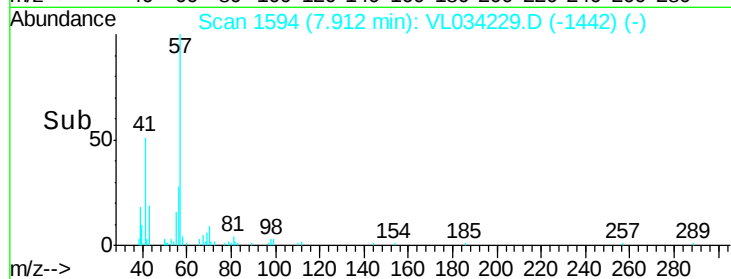
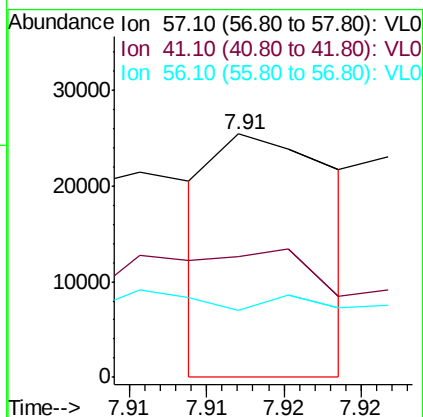
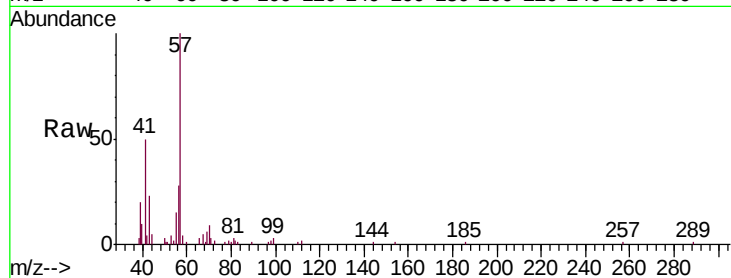




#44
 2,2,4-Trimethylpentane
 Concen: 0.034 ppbv
 RT: 7.91 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: VL034229.D
 Acq: 7 Oct 2019 19:38

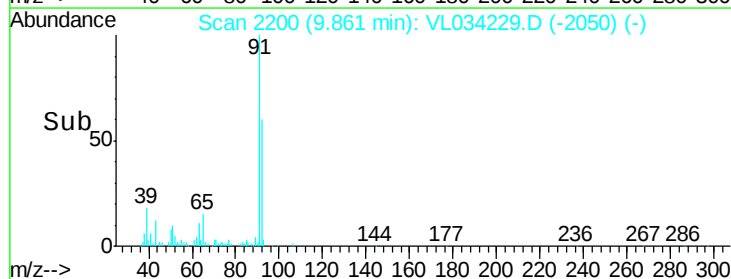
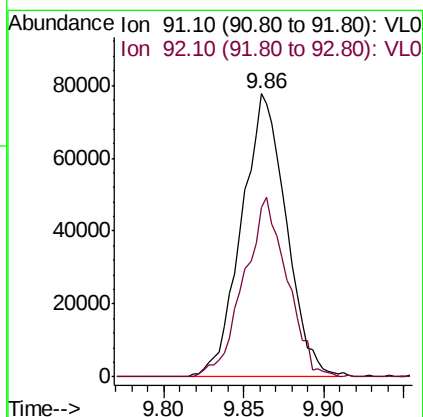
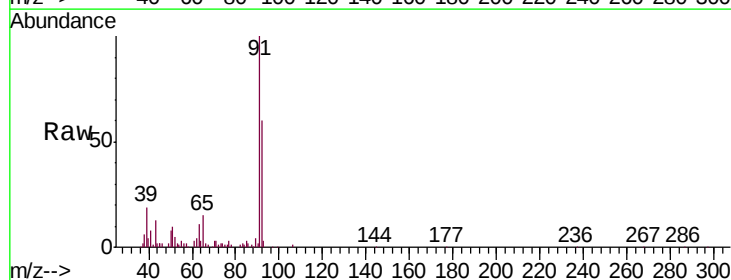
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

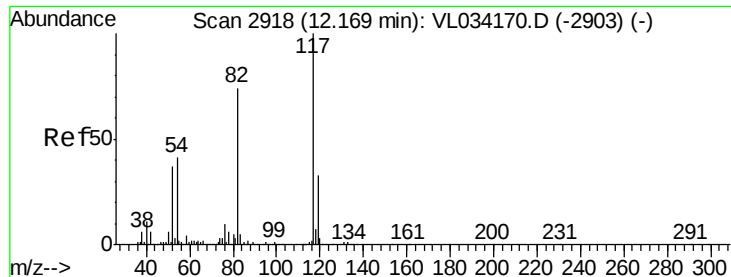
Tgt Ion: 57 Resp: 13711
 Ion Ratio Lower Upper
 57 100
 41 210.6 29.8 44.6#
 56 0.0 25.9 38.9#



#53
 Toluene
 Concen: 0.654 ppbv
 RT: 9.86 min Scan# 2200
 Delta R.T. -0.02 min
 Lab File: VL034229.D
 Acq: 7 Oct 2019 19:38

Tgt Ion: 91 Resp: 148472
 Ion Ratio Lower Upper
 91 100
 92 61.8 49.0 73.6

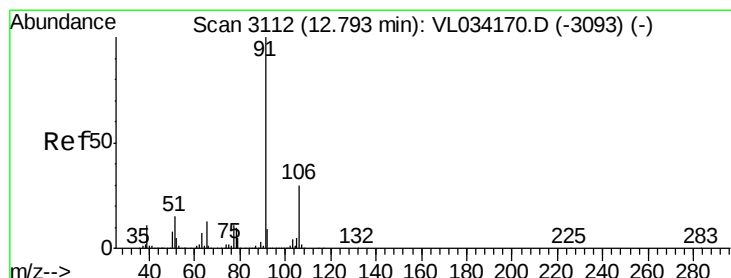
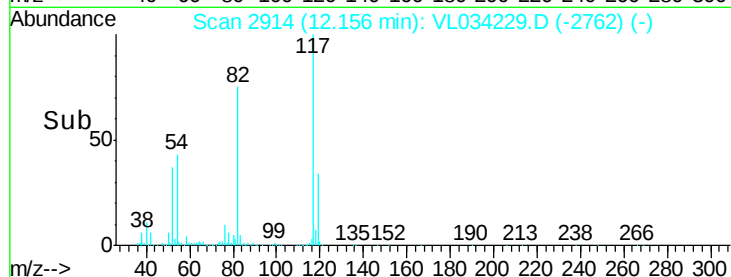
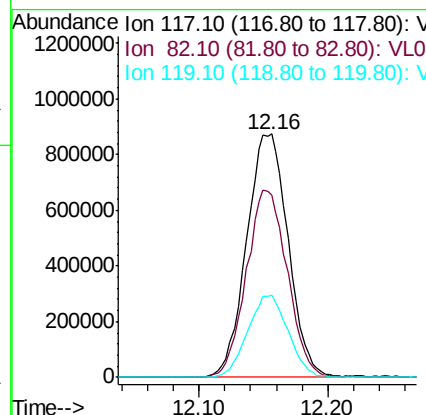
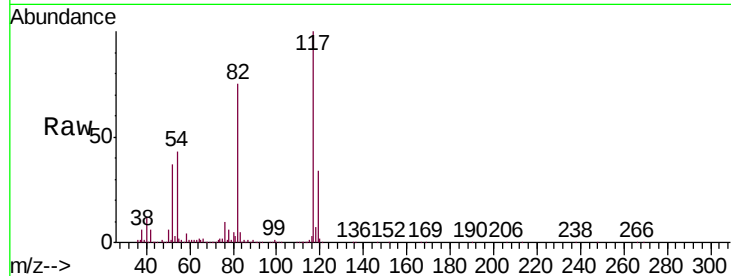




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

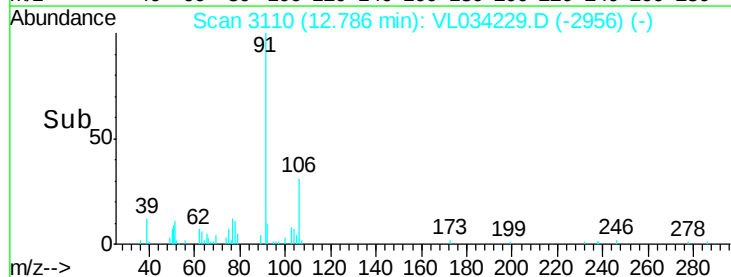
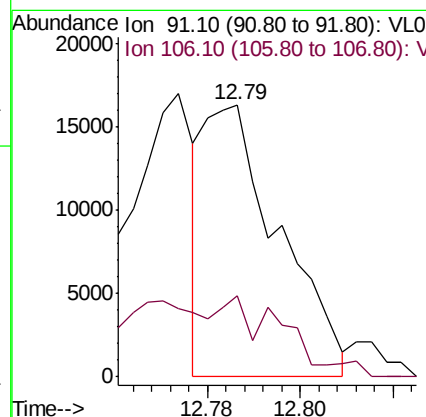
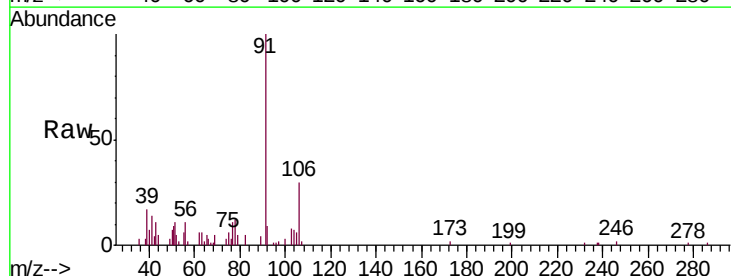
Instrument :
MSVOA_L
ClientSampleId :
IA3

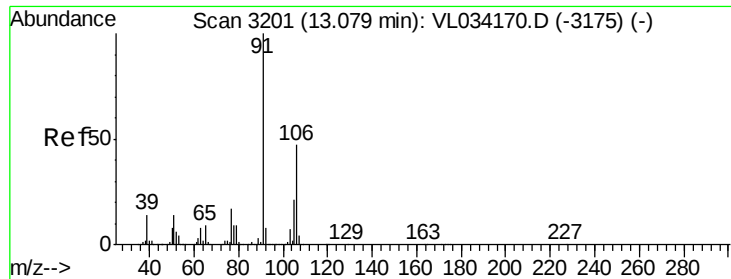
Tgt Ion:117 Resp: 1958899
Ion Ratio Lower Upper
117 100
82 76.1 58.2 87.4
119 32.9 23.7 35.5



#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 12.79 min Scan# 3110
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Tgt Ion: 91 Resp: 18265
Ion Ratio Lower Upper
91 100
106 27.6 24.2 36.4

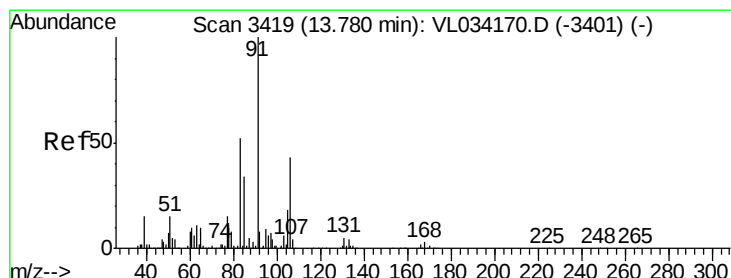
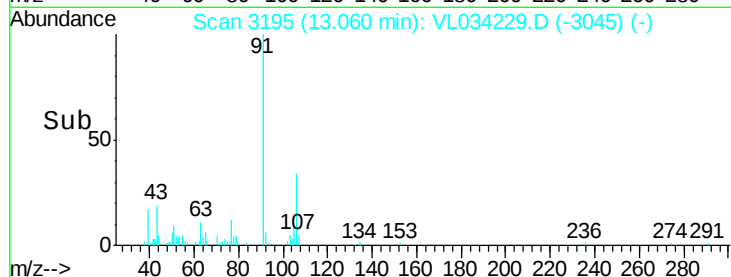
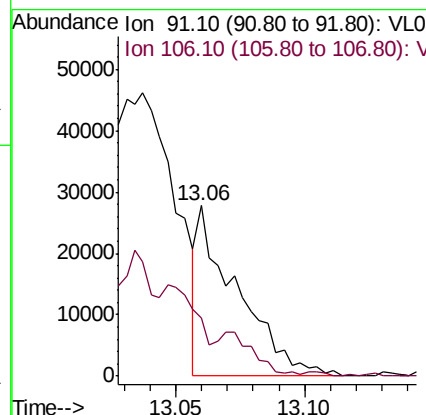
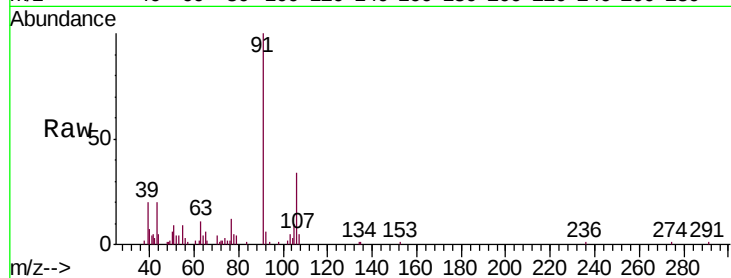




#59
m/p-Xylene
Concen: 0.113 ppbv
RT: 13.06 min Scan# 3195
Delta R.T. -0.02 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

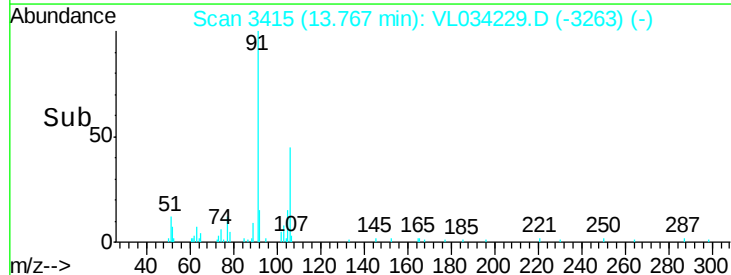
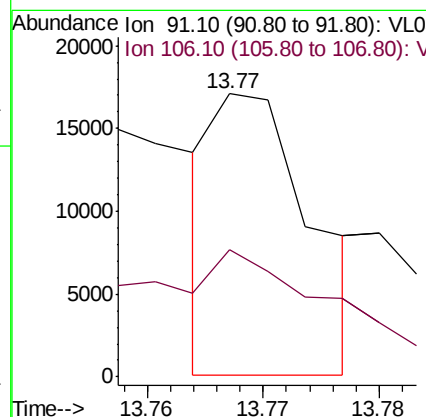
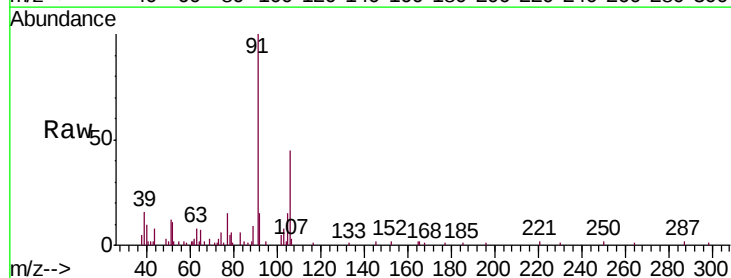
Instrument :
MSVOA_L
ClientSampled :
IA3

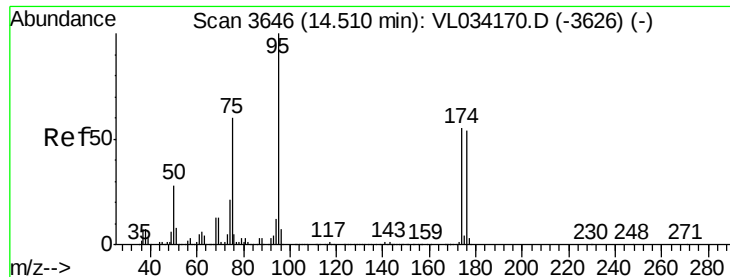
Tgt Ion: 91 Resp: 29542
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#



#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.77 min Scan# 3415
Delta R.T. -0.01 min
Lab File: VL034229.D
Acq: 7 Oct 2019 19:38

Tgt Ion: 91 Resp: 9834
Ion Ratio Lower Upper
91 100
106 148.6 21.2 63.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.469 ppbv

RT: 14.49 min Scan# 3641

Delta R.T. -0.02 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampleId :

IA3

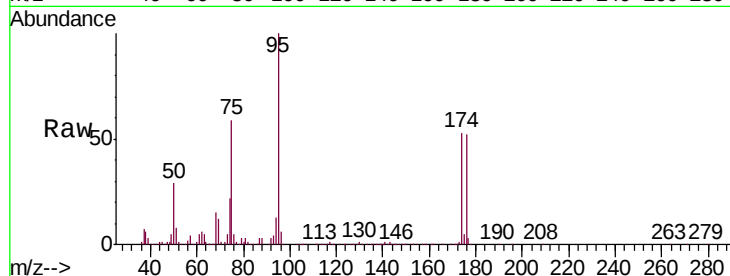
Tgt Ion: 95 Resp: 1781915

Ion Ratio Lower Upper

95 100

174 55.0 45.1 67.7

175 4.0 3.3 4.9

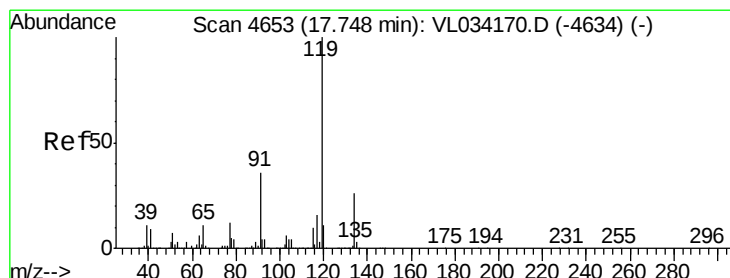
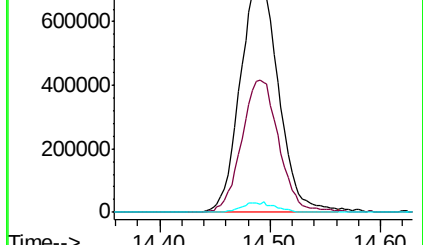
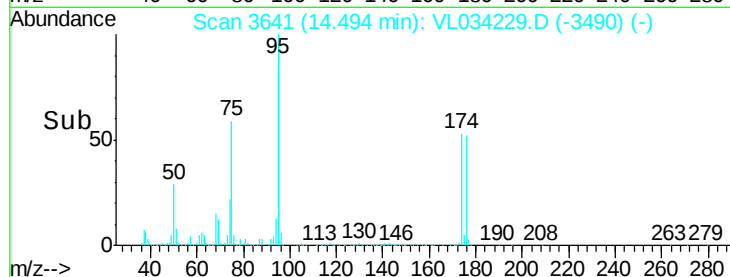


Abundance Ion 95.10 (94.80 to 95.80): VL034170.D (-3626) (-)

Ion 174.00 (173.70 to 174.70): VL034170.D (-3626) (-)

Ion 175.00 (174.70 to 175.70): VL034170.D (-3626) (-)

Time-->



#69

p-Isopropyltoluene

Concen: 0.100 ppbv

RT: 17.73 min Scan# 4649

Delta R.T. -0.01 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

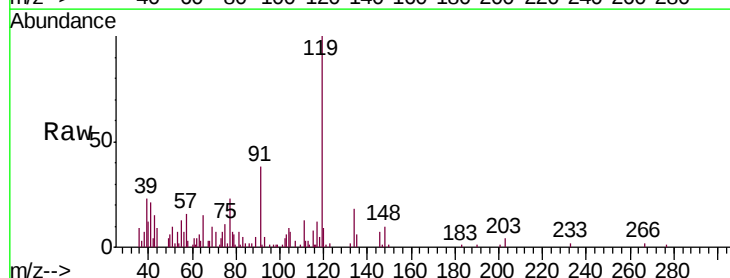
Tgt Ion: 119 Resp: 34302

Ion Ratio Lower Upper

119 100

134 35.0 20.6 30.8#

91 52.0 27.6 41.4#

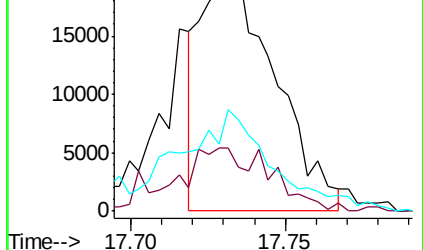
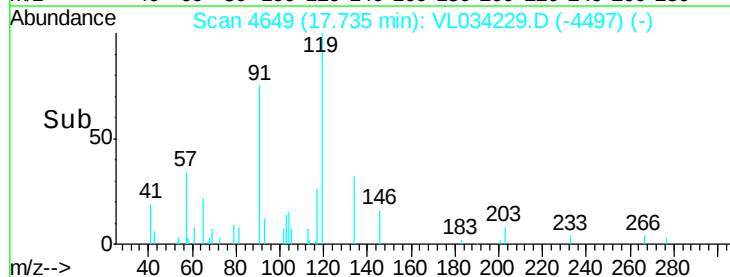


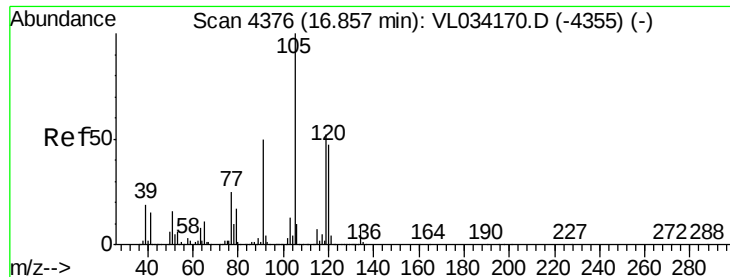
Abundance Ion 119.10 (118.80 to 119.80): VL034170.D (-4634) (-)

Ion 134.20 (133.90 to 134.90): VL034170.D (-4634) (-)

Ion 91.10 (90.80 to 91.80): VL034170.D (-4634) (-)

Time-->

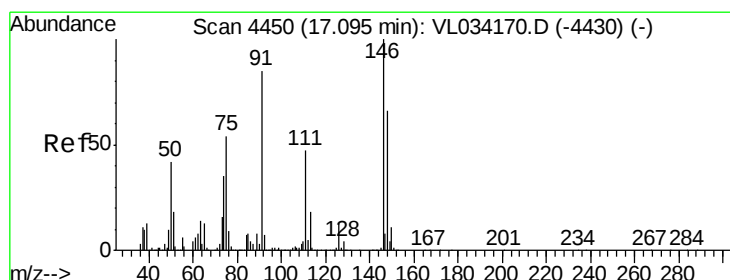
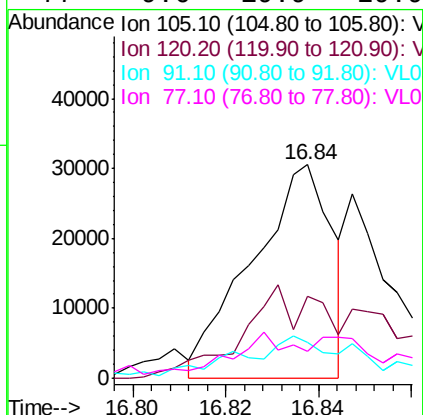
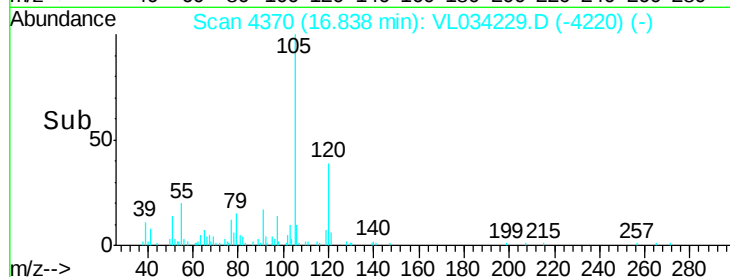
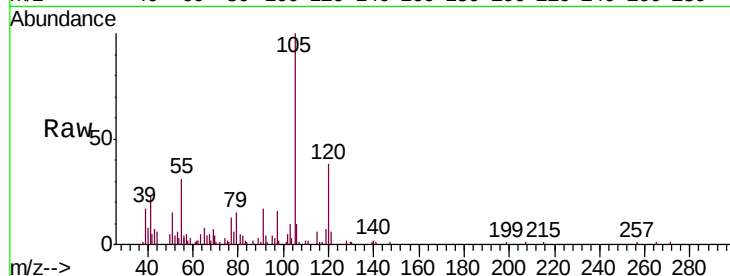




#74
 1,2,4-Trimethylbenzene
 Concen: 0.120 ppbv
 RT: 16.84 min Scan# 4370
 Delta R.T. -0.02 min
 Lab File: VL034229.D
 Acq: 7 Oct 2019 19:38

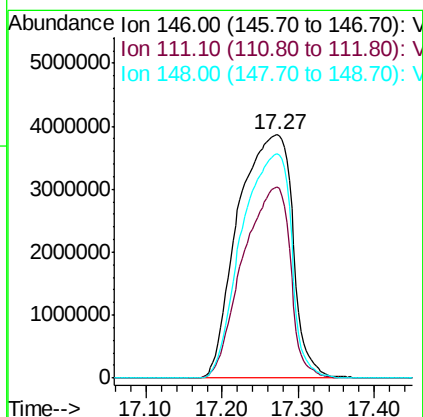
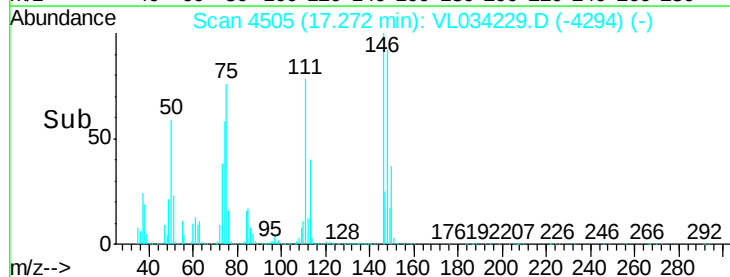
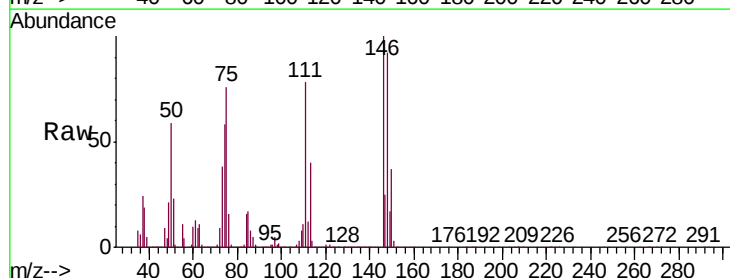
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

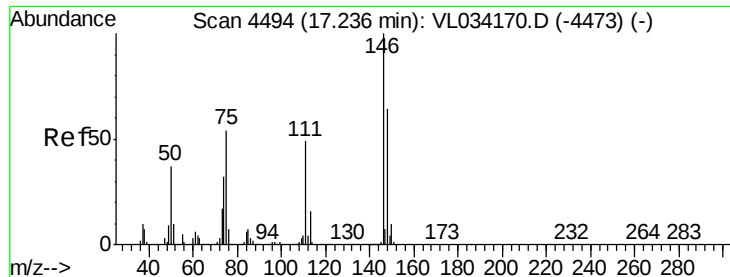
Tgt Ion:	105	Resp:	36543
Ion	Ratio	Lower	Upper
105	100		
120	39.0	37.5	56.3
91	11.7	41.1	61.7#
77	9.6	19.9	29.9#



#75
 1,3-Dichlorobenzene
 Concen: 118.263 ppbv
 RT: 17.27 min Scan# 4505
 Delta R.T. 0.18 min
 Lab File: VL034229.D
 Acq: 7 Oct 2019 19:38

Tgt Ion:	146	Resp:	19250254
Ion	Ratio	Lower	Upper
146	100		
111	68.3	25.9	77.8
148	83.9	32.6	97.7





#76

1,4-Dichlorobenzene

Concen: 115.478 ppbv

RT: 17.27 min Scan# 4505

Delta R.T. 0.04 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampled :

IA3

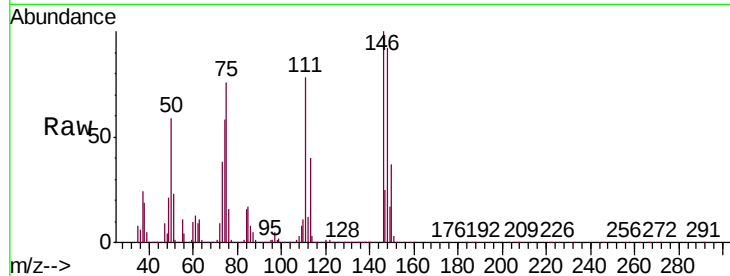
Tgt Ion:146 Resp:19250254

Ion Ratio Lower Upper

146 100

111 68.2 24.6 74.0

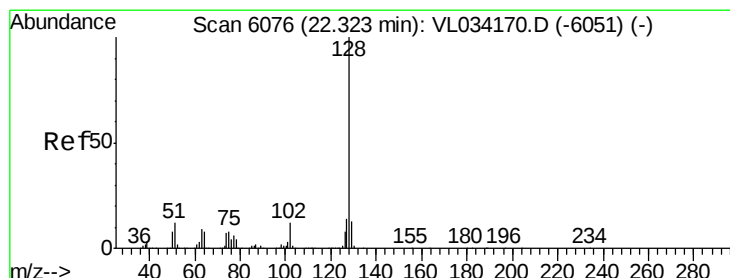
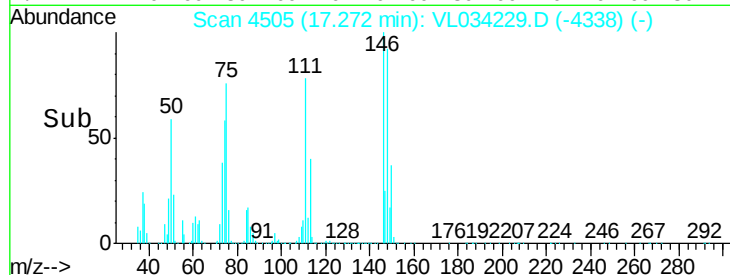
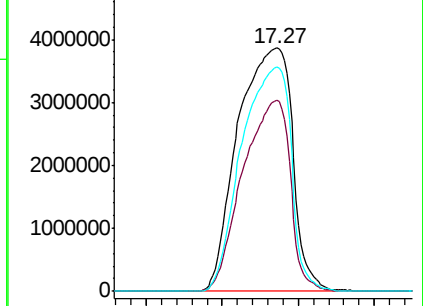
148 84.0 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.222 ppbv

RT: 22.30 min Scan# 6070

Delta R.T. -0.02 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

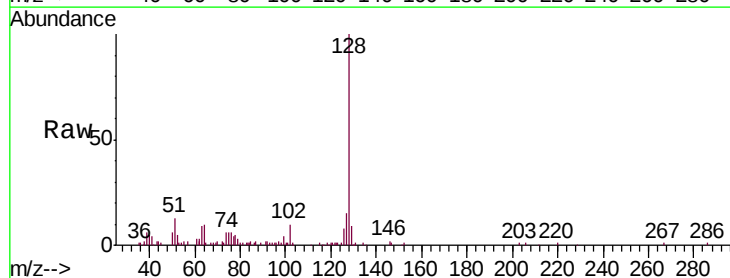
Tgt Ion:128 Resp: 59409

Ion Ratio Lower Upper

128 100

127 16.0 11.1 16.7

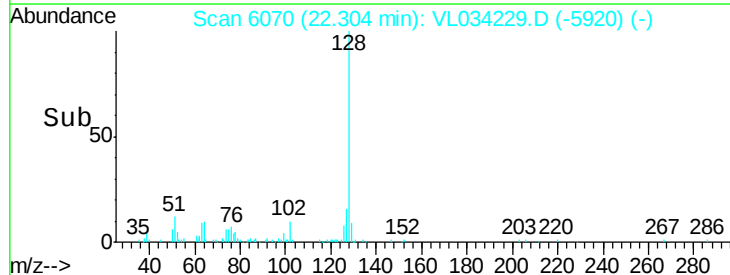
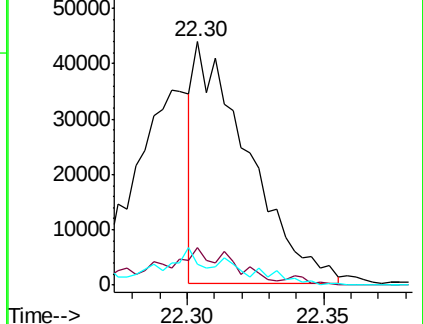
129 8.4 10.2 15.4#

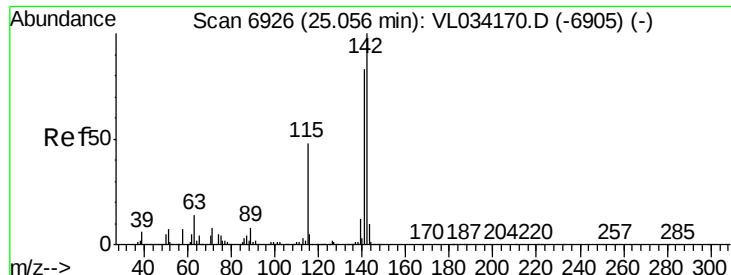


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.094 ppbv

RT: 25.05 min Scan# 6923

Delta R.T. -0.01 min

Lab File: VL034229.D

Acq: 7 Oct 2019 19:38

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion:142 Resp: 11622

Ion Ratio Lower Upper

142 100

141 82.2 67.6 101.4

115 58.3 36.9 55.3#

