

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101419\
 Data File : VL034292.D
 Acq On : 14 Oct 2019 21:58
 Operator : SY/AP
 Sample : K5302-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Oct 15 02:51:01 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	988897	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1674870	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1640913	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1466203	10.28	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

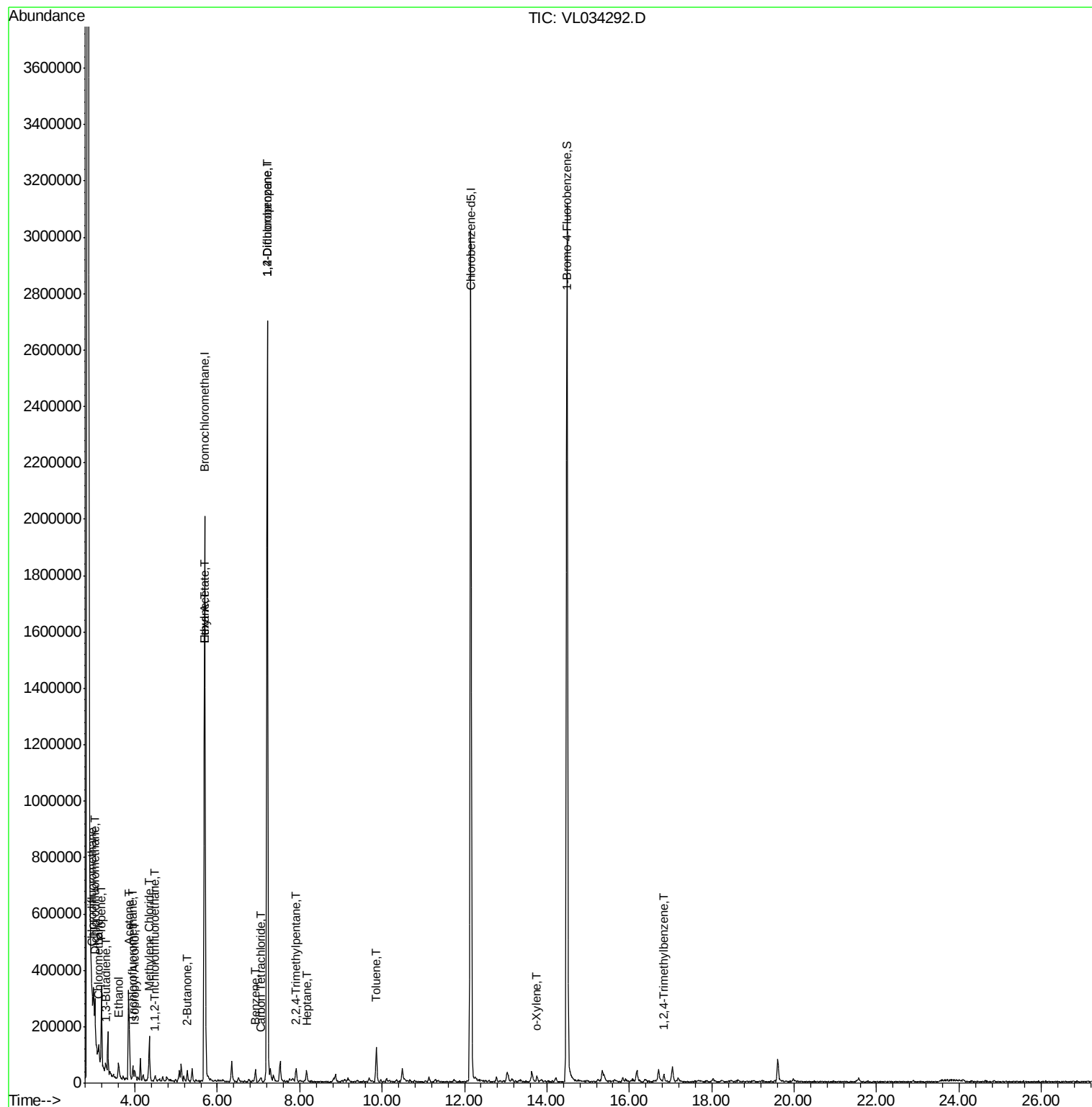
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	85717	0.587	ppbv	94
3) Chlorodifluoromethane	2.97	51	50406	0.435	ppbv #	86
4) Chloromethane	3.12	50	28418	0.417	ppbv	95
9) Propene	3.19	41	58686	1.026	ppbv	96
10) Heptane	8.16	43	7864	0.053	ppbv #	30
11) Trichlorofluoromethane	3.95	101	29079	0.219	ppbv #	77
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6110	0.070	ppbv	97
13) Ethanol	3.61	45	63303	4.570	ppbv	96
15) Acetone	3.84	43	325110	2.453	ppbv	99
16) 1,3-Butadiene	3.31	39	2146	0.037	ppbv #	8
19) Isopropyl Alcohol	3.98	45	20487	0.251	ppbv #	95
20) Methylene Chloride	4.35	84	46244	1.210	ppbv #	90
25) Ethyl Acetate	5.71	43	74393	0.297	ppbv #	76
26) Hexane	5.71	57	90663	0.870	ppbv #	43
34) 2-Butanone	5.27	43	43772	0.256	ppbv	100
35) Carbon Tetrachloride	7.05	117	4921	0.035	ppbv #	89
36) Benzene	6.93	78	27763	0.150	ppbv #	93
39) 1,2-Dichloropropane	7.21	63	549197	6.608	ppbv #	20
44) 2,2,4-Trimethylpentane	7.91	57	19366	0.054	ppbv #	42
53) Toluene	9.86	91	77224	0.382	ppbv	98
60) o-Xylene	13.76	91	12851	0.059	ppbv	97
74) 1,2,4-Trimethylbenzene	16.83	105	9495	0.037	ppbv #	59

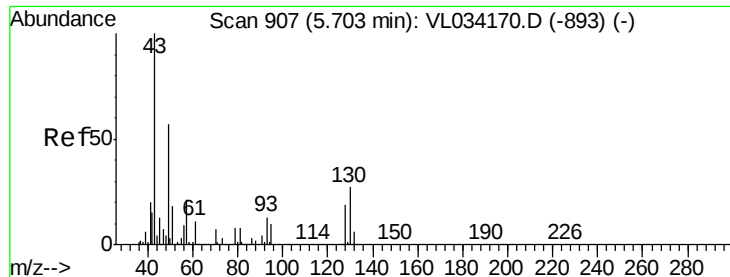
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034292.D

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Instrument :

MSVOA_L

ClientSampleId :

OA1

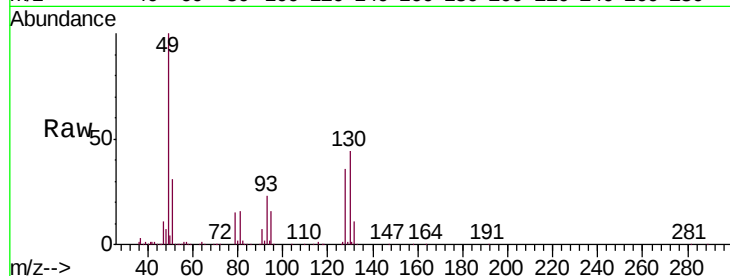
Tgt Ion: 49 Resp: 988897

Ion Ratio Lower Upper

49 100

128 36.0 17.6 52.9

130 45.0 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

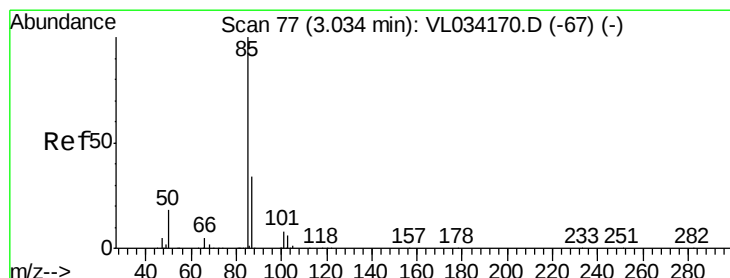
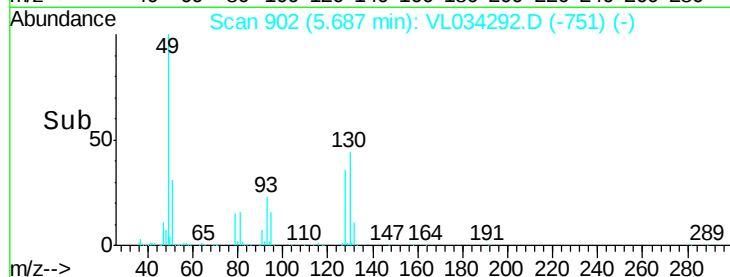
600000

400000

200000

0

Time--> 5.60 5.65 5.70 5.75



#2

Dichlorodifluoromethane

Concen: 0.587 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034292.D

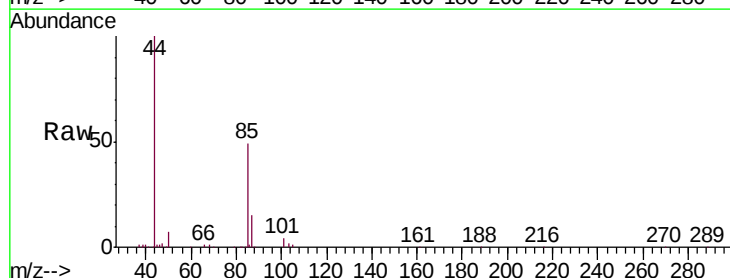
Acq: 14 Oct 2019 21:58

Tgt Ion: 85 Resp: 85717

Ion Ratio Lower Upper

85 100

87 30.7 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

80000

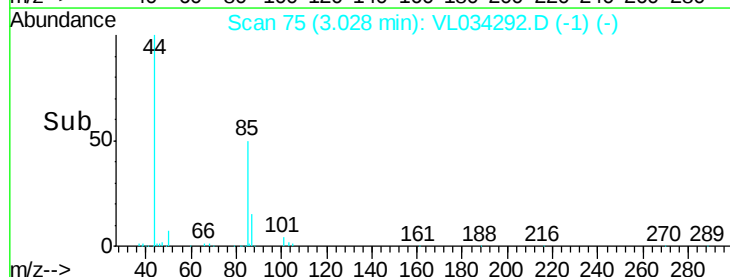
60000

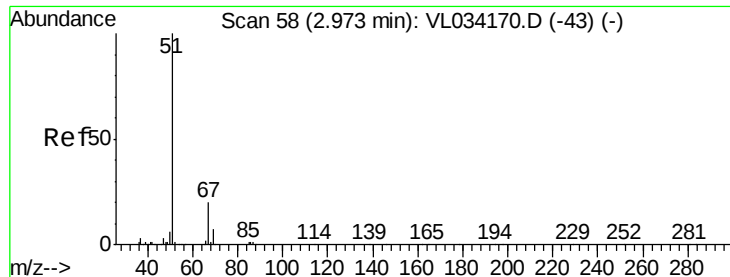
40000

20000

0

Time--> 3.00 3.05





#3

Chlorodifluoromethane

Concen: 0.435 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

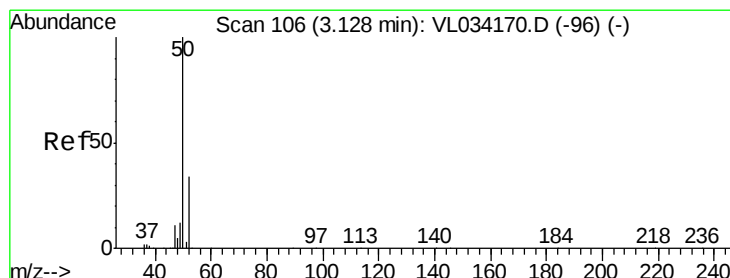
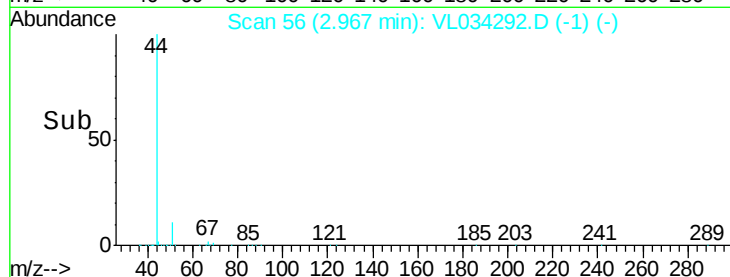
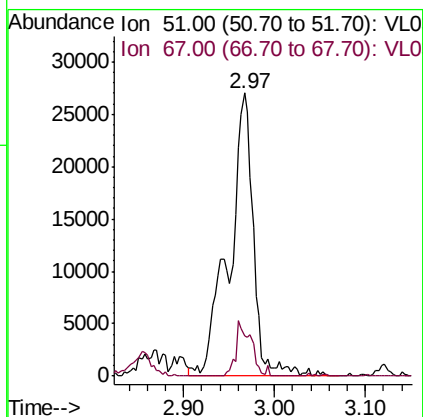
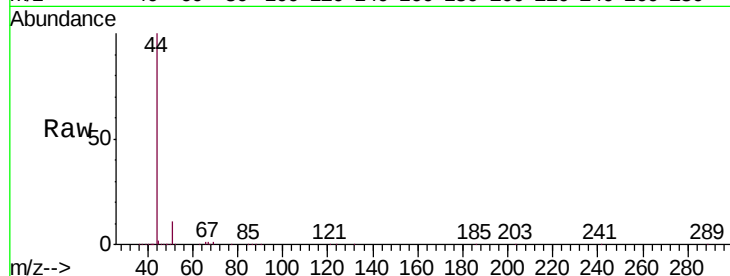
OA1

Tgt Ion: 51 Resp: 50406

Ion Ratio Lower Upper

51 100

67 12.2 14.8 22.2#



#4

Chloromethane

Concen: 0.417 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034292.D

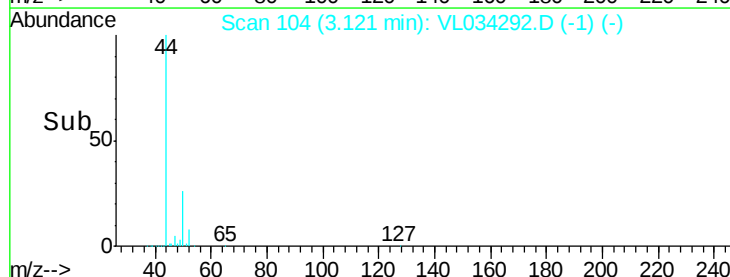
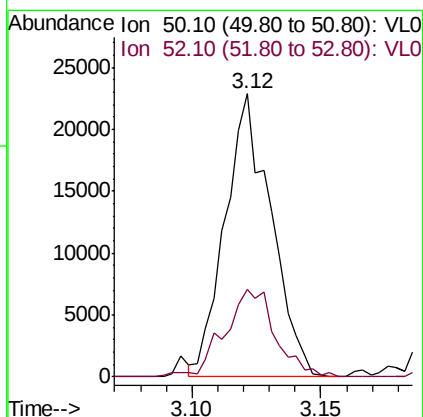
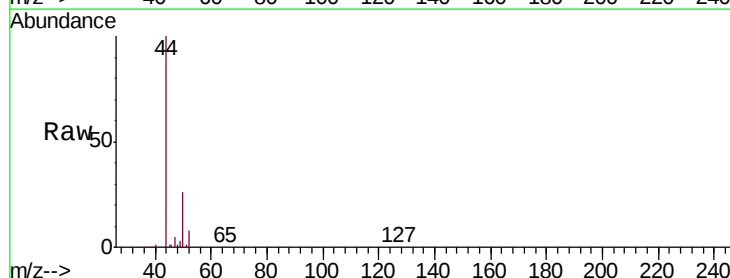
Acq: 14 Oct 2019 21:58

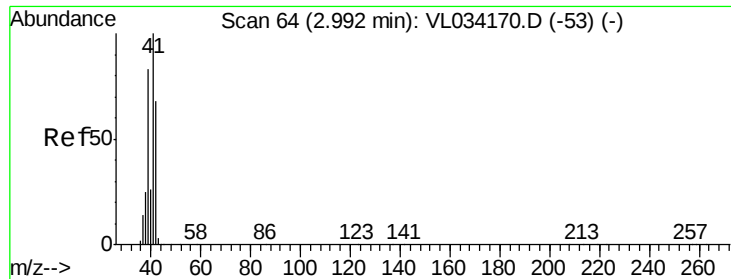
Tgt Ion: 50 Resp: 28418

Ion Ratio Lower Upper

50 100

52 30.8 27.1 40.7





#9

Propene

Concen: 1.026 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.19 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

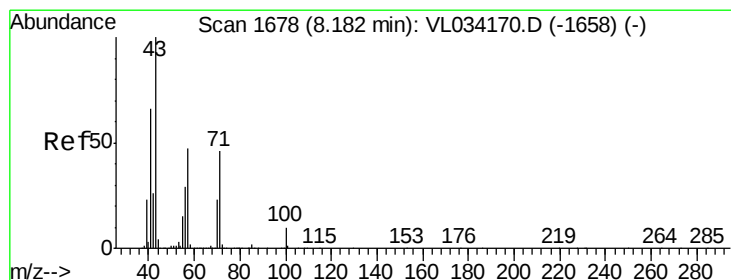
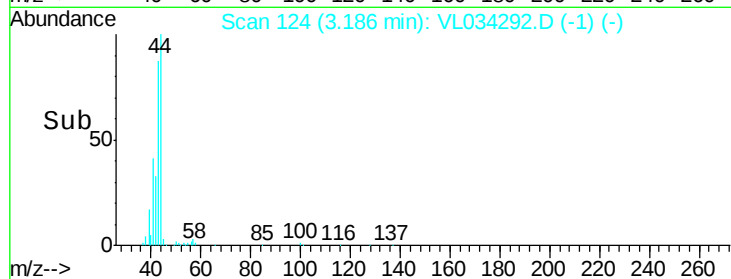
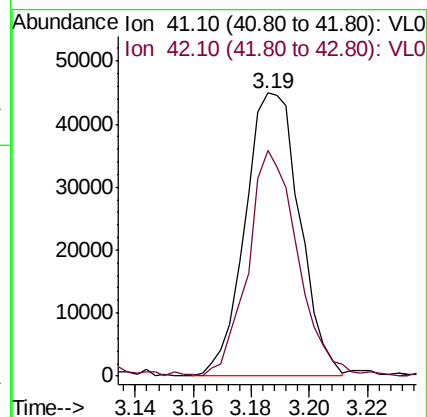
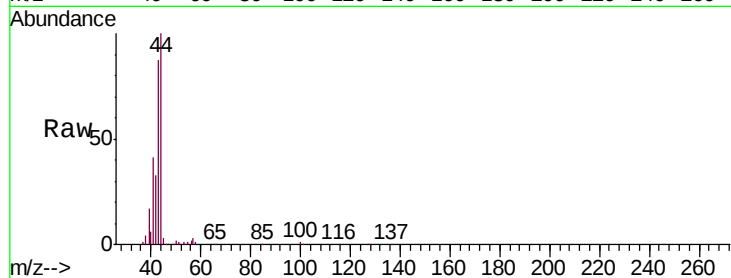
OA1

Tgt Ion: 41 Resp: 58686

Ion Ratio Lower Upper

41 100

42 73.2 55.8 83.6



#10

Heptane

Concen: 0.053 ppbv

RT: 8.16 min Scan# 1670

Delta R.T. -0.03 min

Lab File: VL034292.D

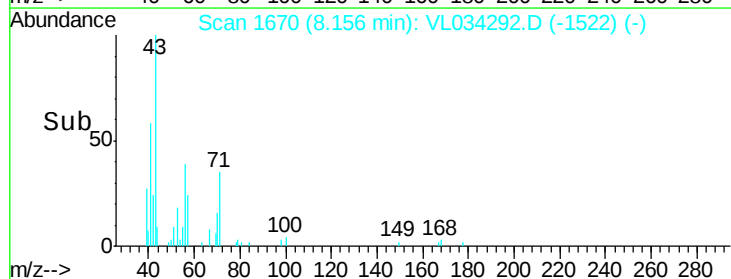
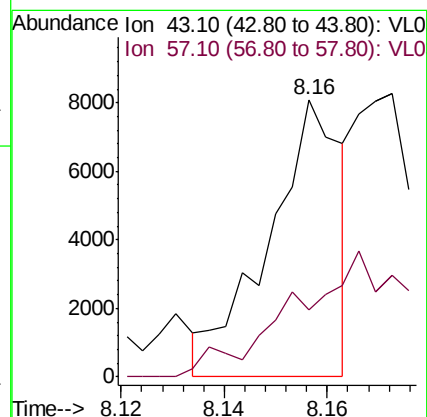
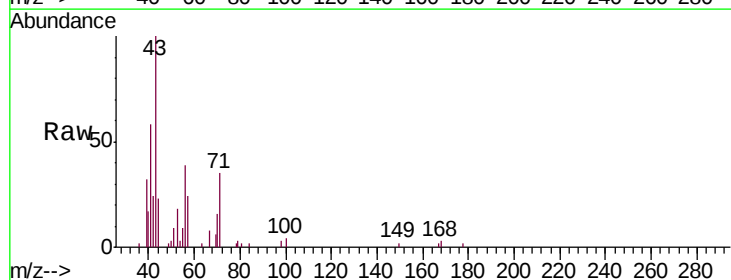
Acq: 14 Oct 2019 21:58

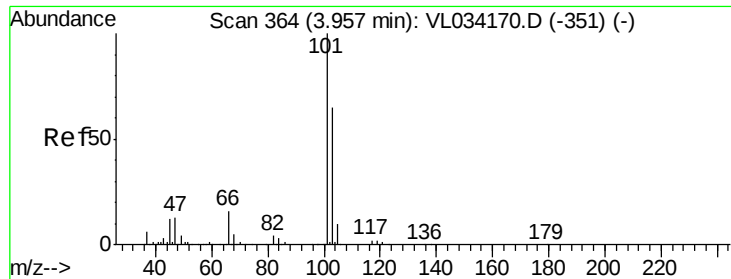
Tgt Ion: 43 Resp: 7864

Ion Ratio Lower Upper

43 100

57 0.0 37.5 56.3#





#11

Trichlorofluoromethane

Concen: 0.219 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

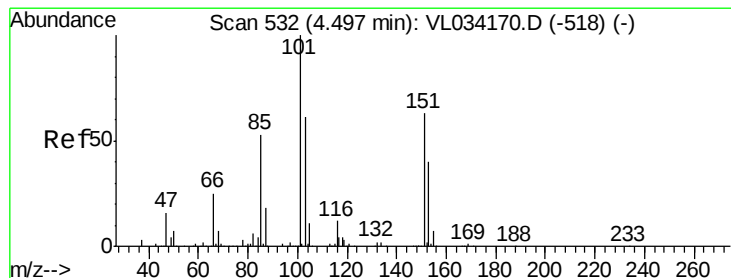
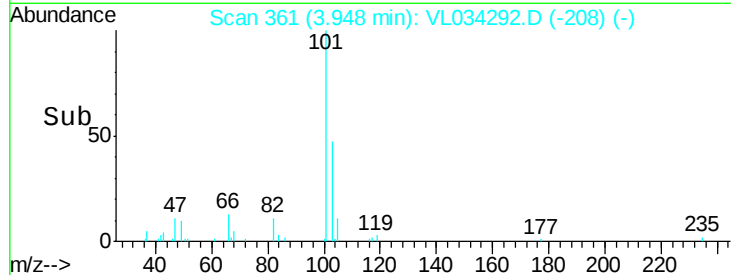
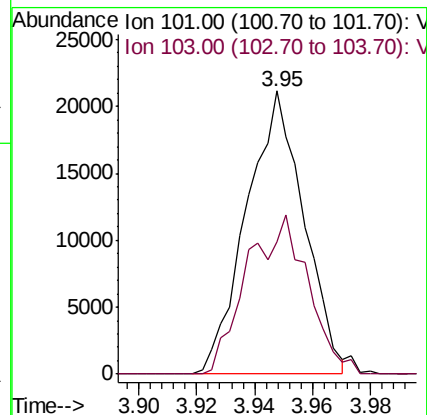
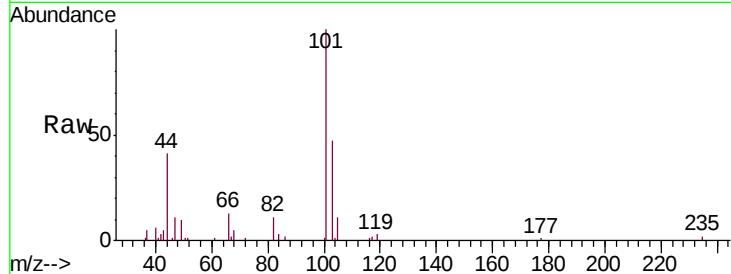
QA1

Tgt Ion:101 Resp: 29079

Ion Ratio Lower Upper

101 100

103 46.9 52.1 78.1#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.070 ppbv

RT: 4.49 min Scan# 529

Delta R.T. -0.01 min

Lab File: VL034292.D

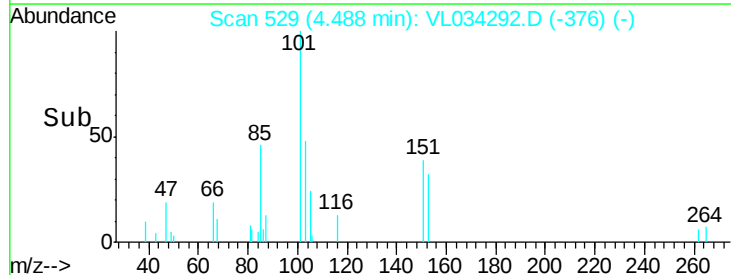
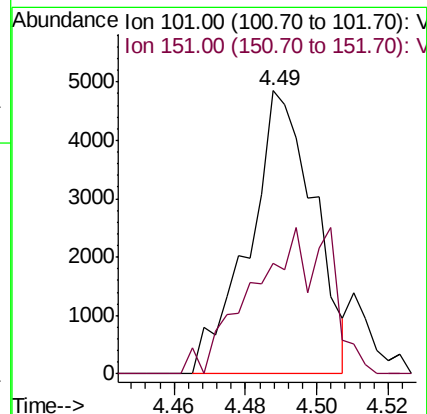
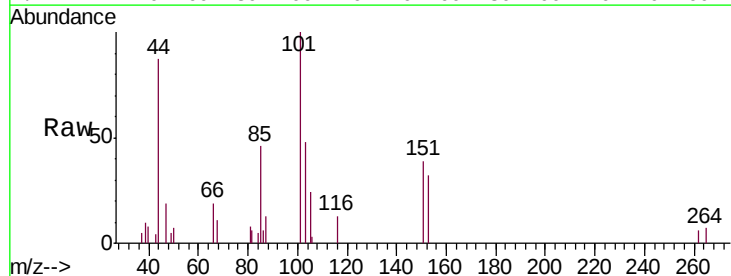
Acq: 14 Oct 2019 21:58

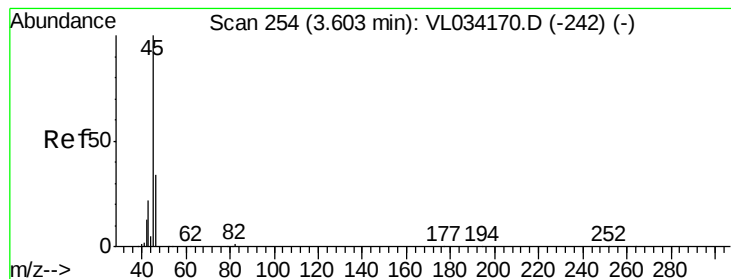
Tgt Ion:101 Resp: 6110

Ion Ratio Lower Upper

101 100

151 62.8 51.8 77.8





#13

Ethanol

Concen: 4.570 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

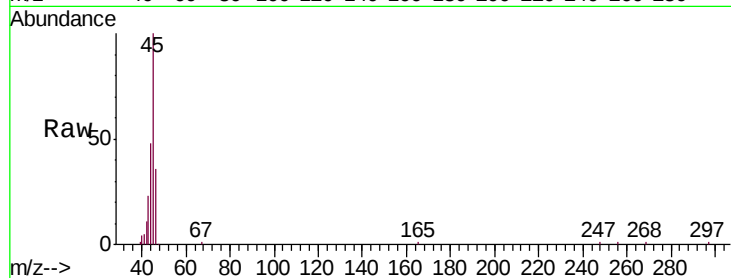
OA1

Tgt Ion: 45 Resp: 63303

Ion Ratio Lower Upper

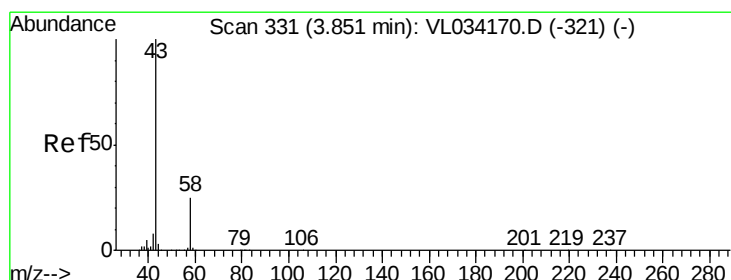
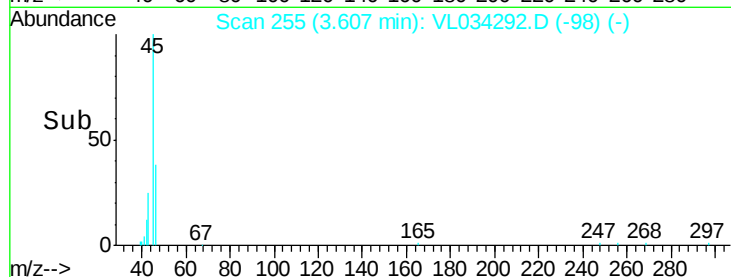
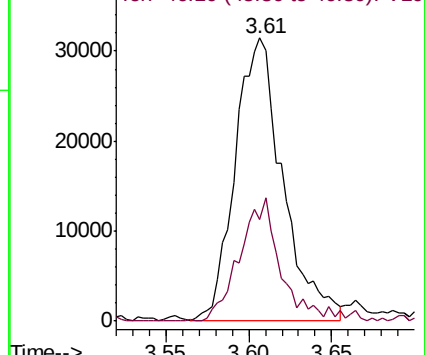
45 100

46 36.1 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: 2.453 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034292.D

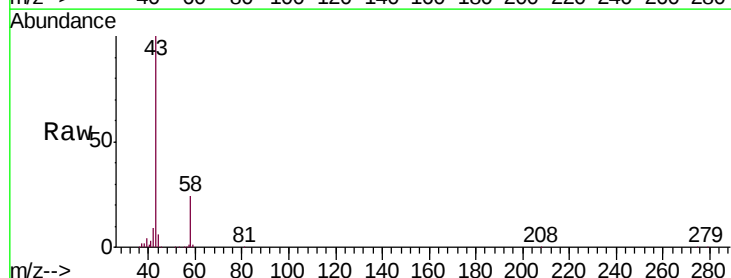
Acq: 14 Oct 2019 21:58

Tgt Ion: 43 Resp: 325110

Ion Ratio Lower Upper

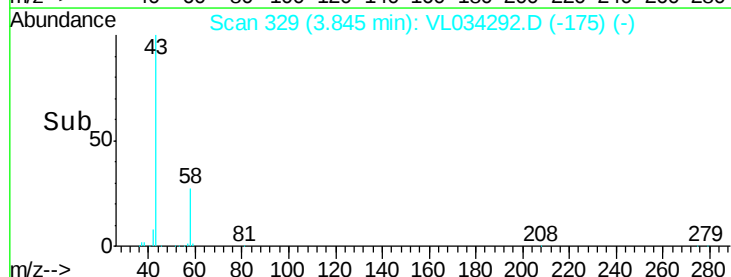
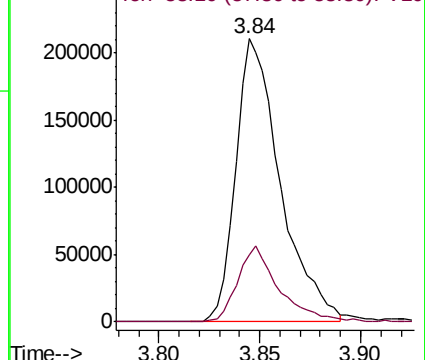
43 100

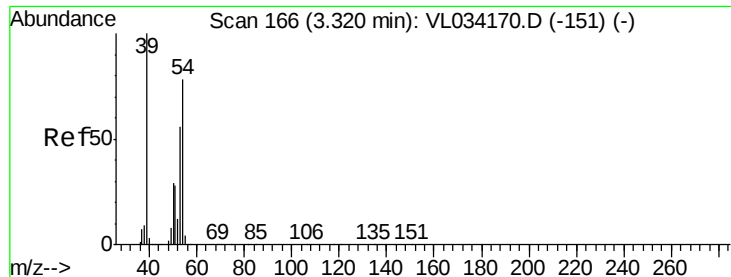
58 25.0 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.037 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

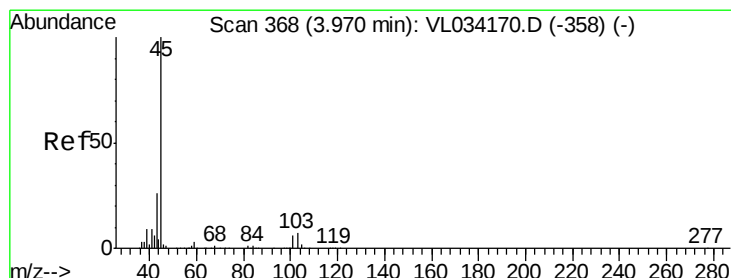
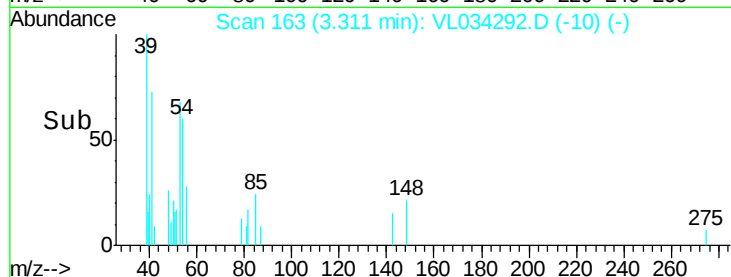
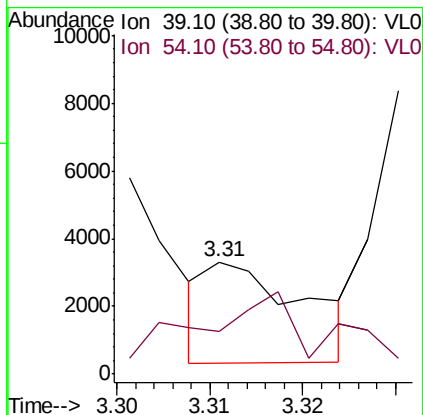
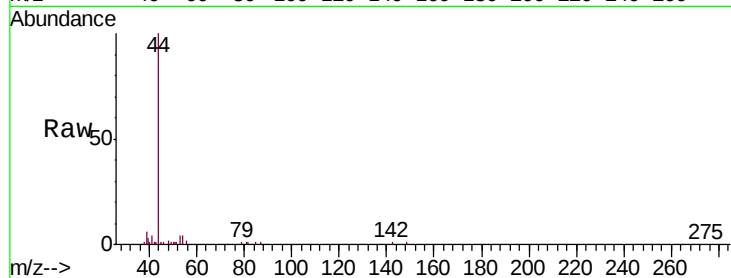
OA1

Tgt Ion: 39 Resp: 2146

Ion Ratio Lower Upper

39 100

54 159.8 63.4 95.0#



#19

Isopropyl Alcohol

Concen: 0.251 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL034292.D

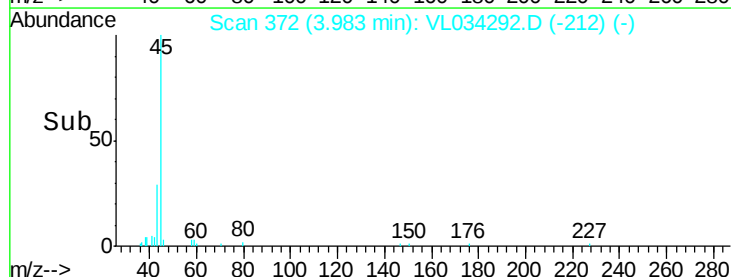
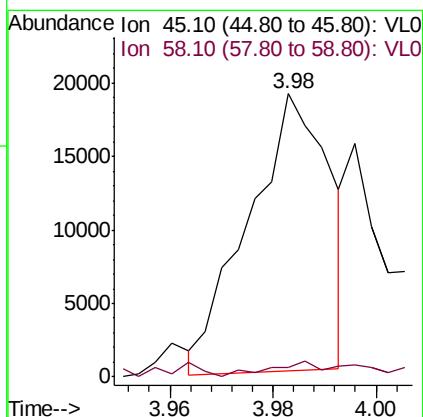
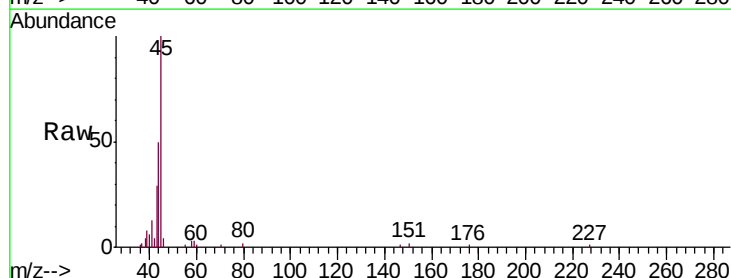
Acq: 14 Oct 2019 21:58

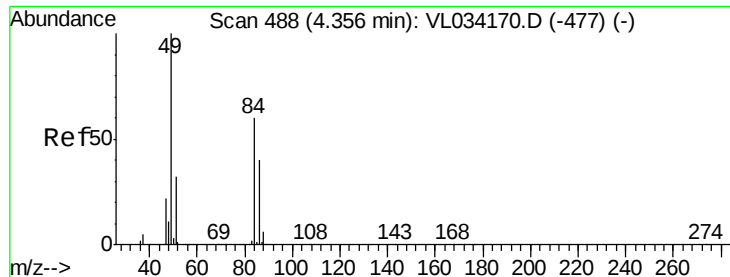
Tgt Ion: 45 Resp: 20487

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

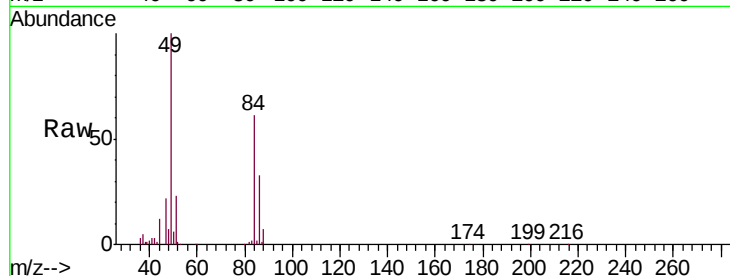




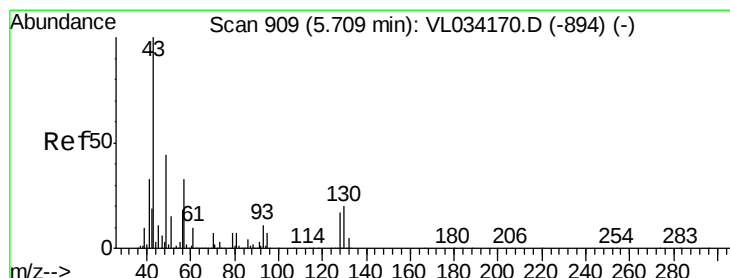
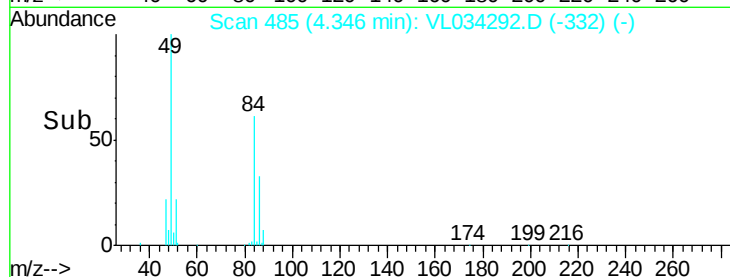
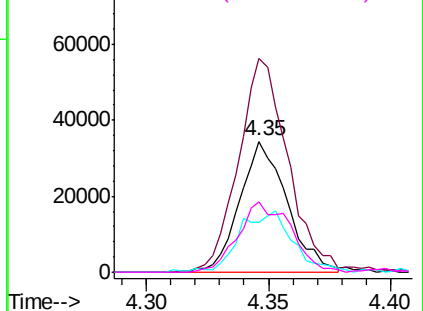
#20
Methylene Chloride
Concen: 1.210 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.01 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 46244
Ion Ratio Lower Upper
84 100
49 162.4 133.8 200.8
51 39.1 43.6 65.4#
86 53.5 53.1 79.7

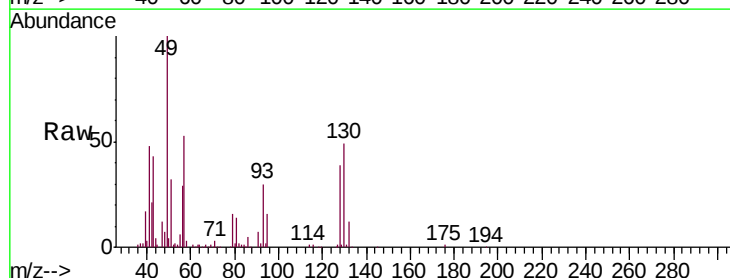


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

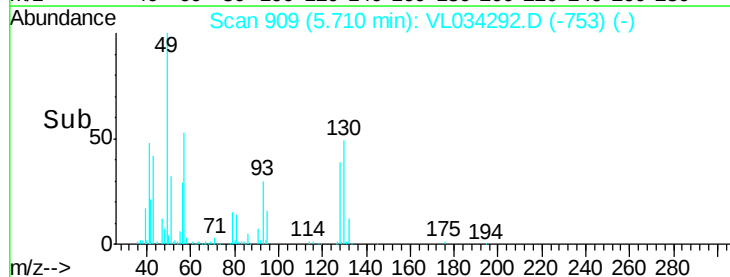
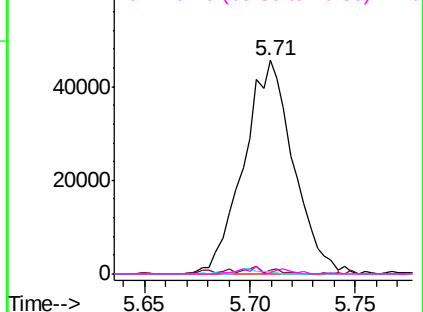


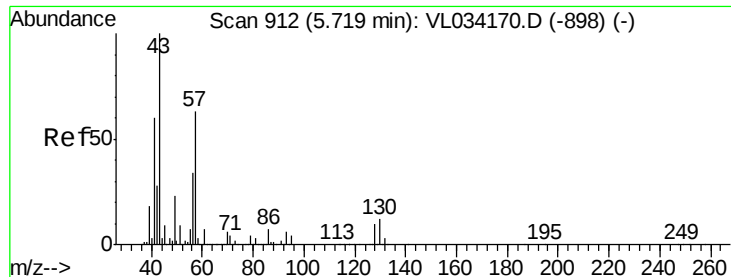
#25
Ethyl Acetate
Concen: 0.297 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Tgt Ion: 43 Resp: 74393
Ion Ratio Lower Upper
43 100
45 0.0 8.4 12.6#
61 0.0 7.2 10.8#
70 1.0 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: 0.870 ppbv

RT: 5.71 min Scan# 909

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 57 Resp: 90663

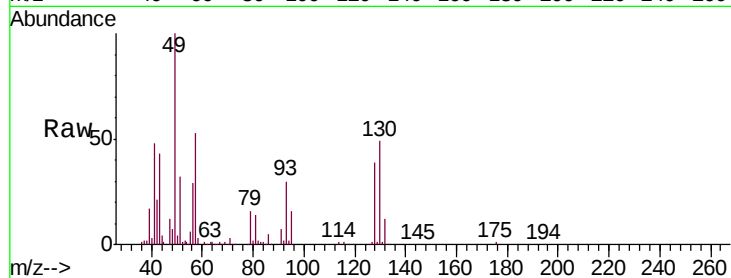
Ion Ratio Lower Upper

57 100

41 104.2 78.5 117.7

43 83.8 189.5 284.3#

56 56.4 43.2 64.8

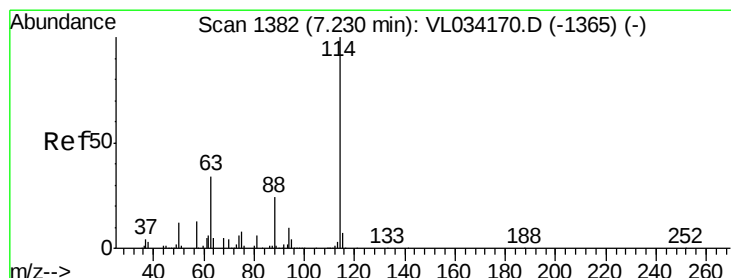
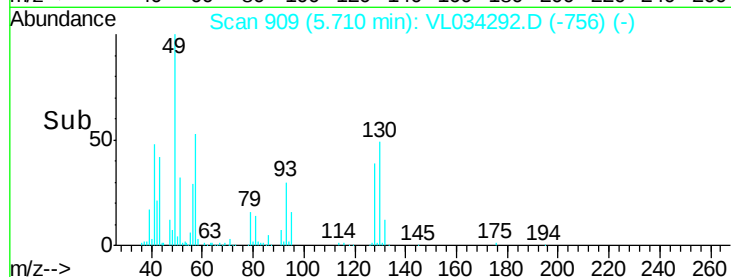
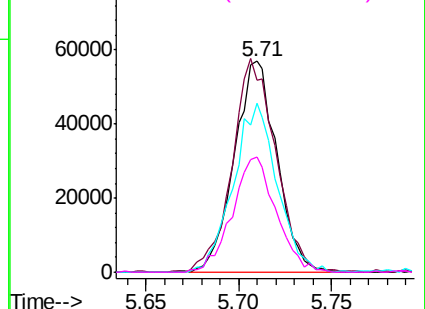


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.02 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

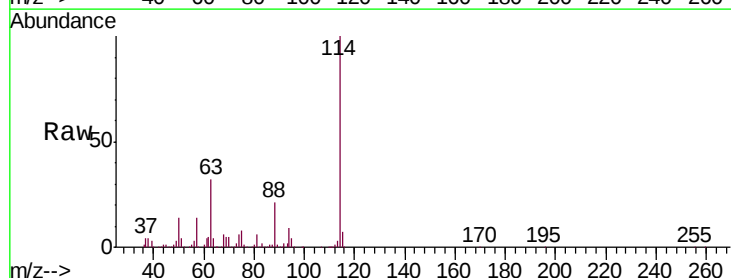
Tgt Ion: 114 Resp: 1674870

Ion Ratio Lower Upper

114 100

63 33.0 27.8 41.6

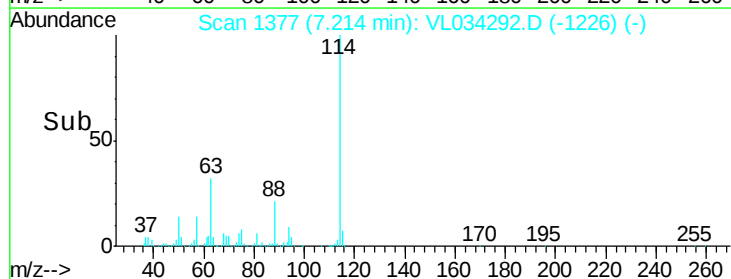
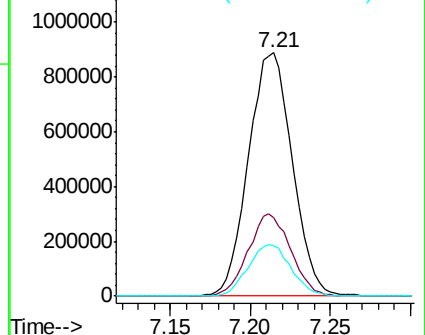
88 20.9 17.1 25.7

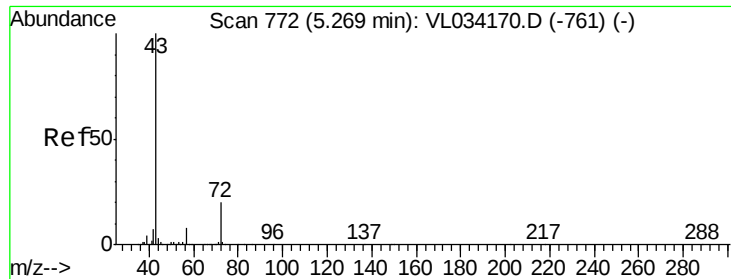


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

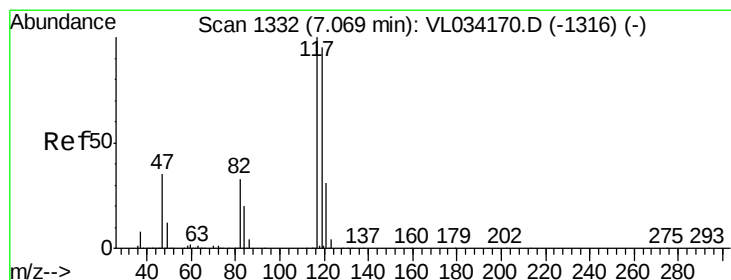
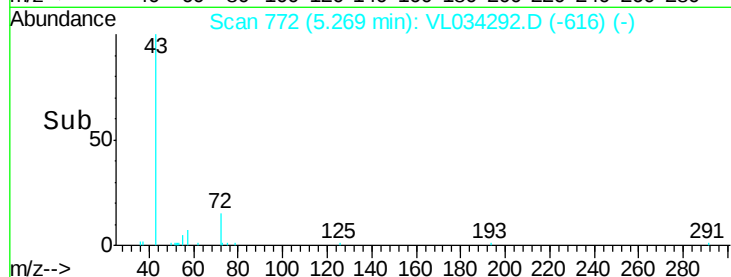
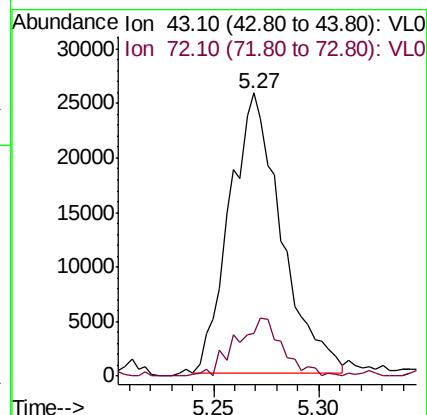
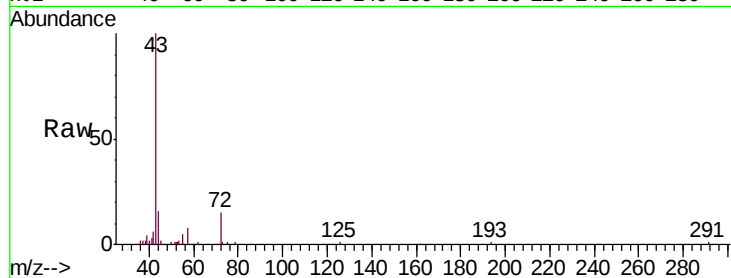




#34
2-Butanone
Concen: 0.256 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.00 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

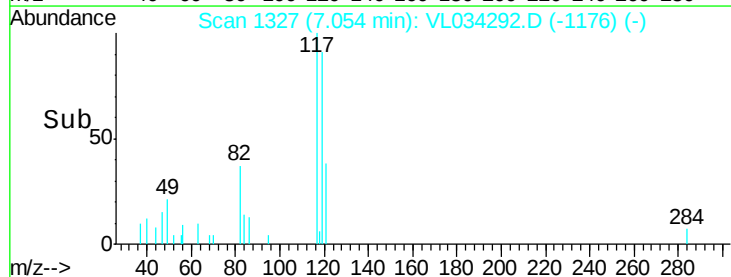
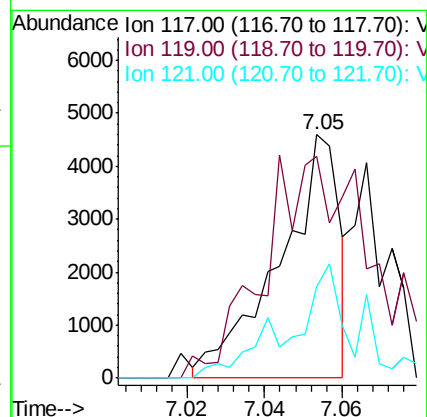
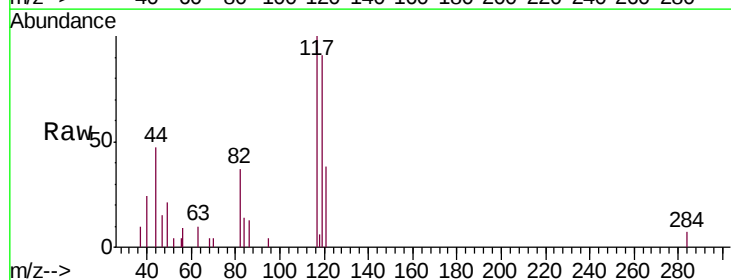
Instrument :
MSVOA_L
ClientSampleId :
OA1

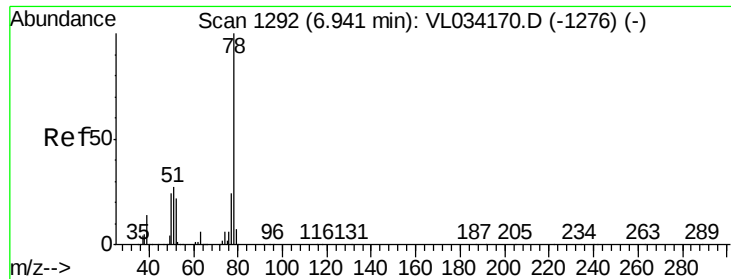
Tgt Ion: 43 Resp: 43772
Ion Ratio Lower Upper
43 100
72 18.8 15.0 22.6



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 7.05 min Scan# 1327
Delta R.T. -0.02 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Tgt Ion: 117 Resp: 4921
Ion Ratio Lower Upper
117 100
119 85.7 75.8 113.6
121 39.2 25.0 37.6#





#36

Benzene

Concen: 0.150 ppbv

RT: 6.93 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

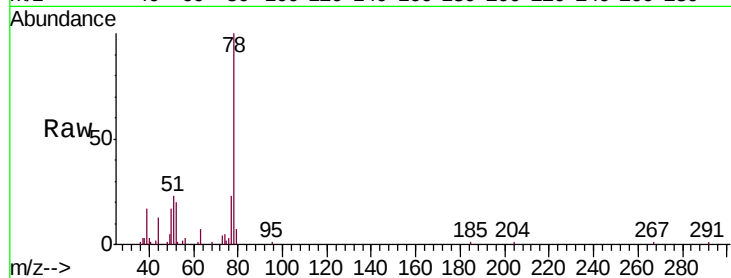
Tgt Ion: 78 Resp: 27763

Ion Ratio Lower Upper

78 100

77 23.2 19.0 28.4

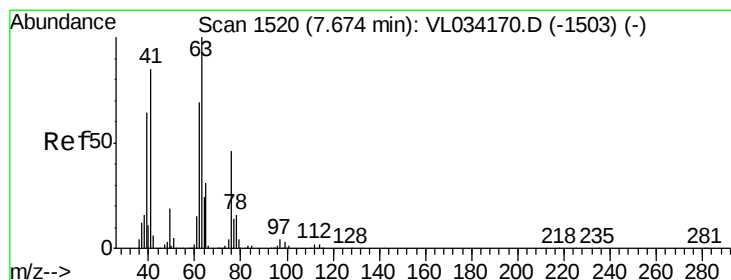
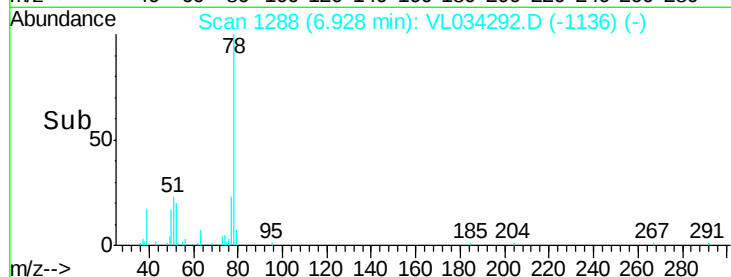
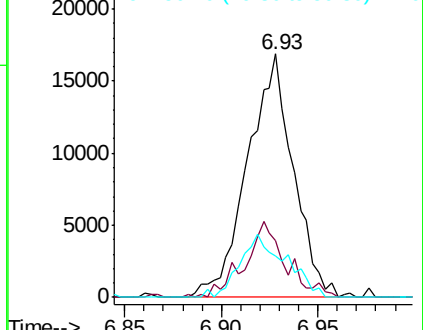
50 16.8 18.9 28.3#



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



#39

1,2-Dichloropropane

Concen: 6.608 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.46 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

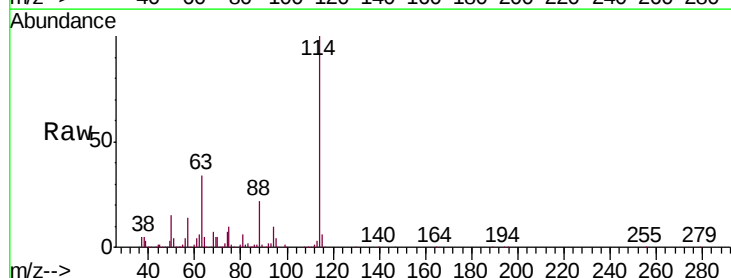
Tgt Ion: 63 Resp: 549197

Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

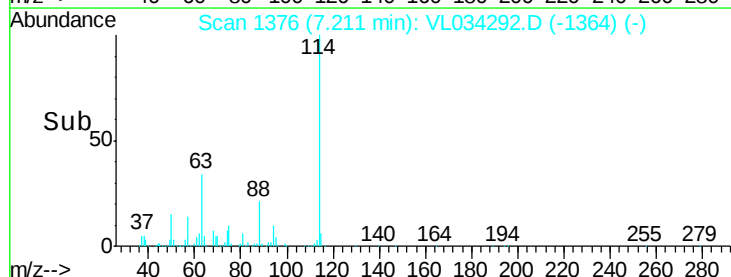
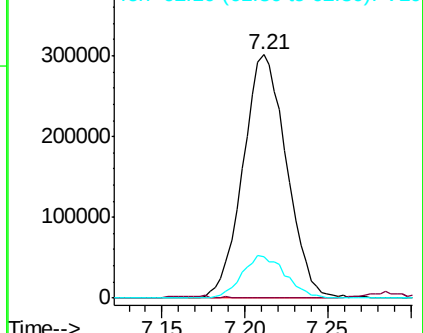
62 17.0 55.4 83.2#

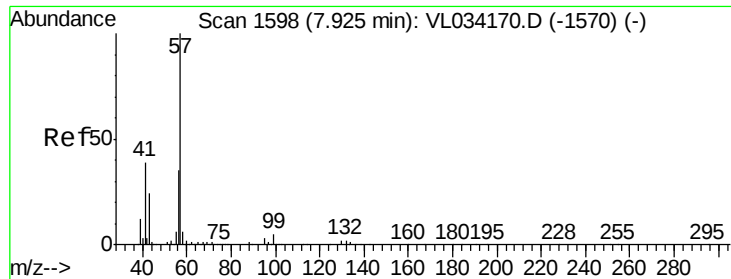


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

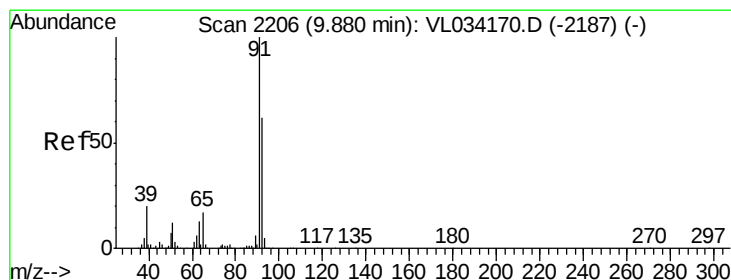
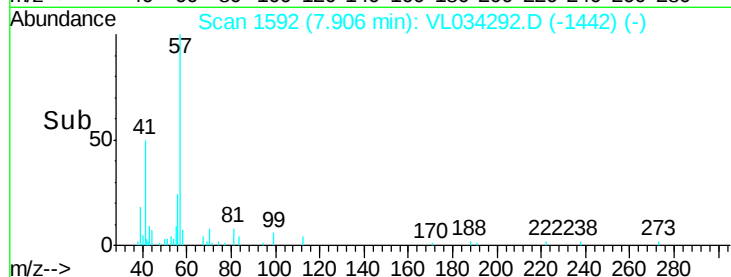
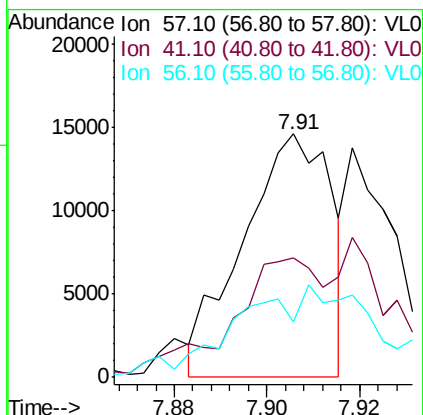
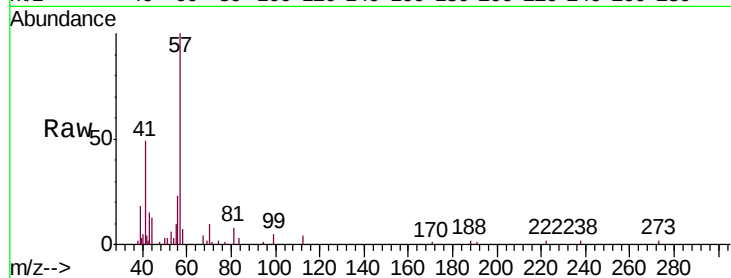




#44
 2,2,4-Trimethylpentane
 Concen: 0.054 ppbv
 RT: 7.91 min Scan# 1592
 Delta R.T. -0.02 min
 Lab File: VL034292.D
 Acq: 14 Oct 2019 21:58

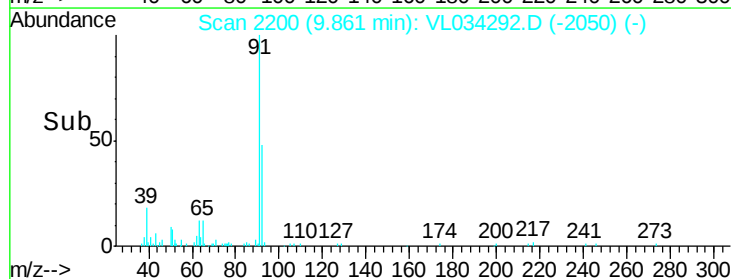
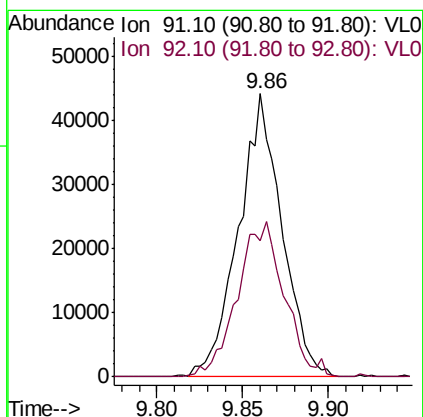
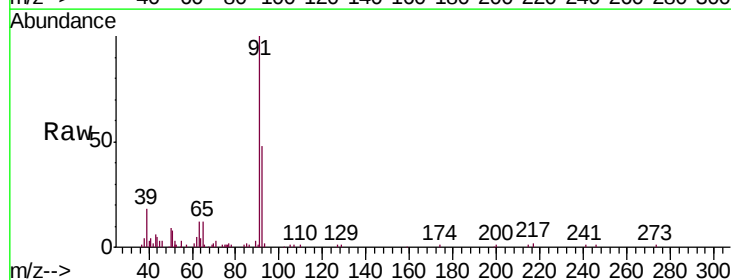
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

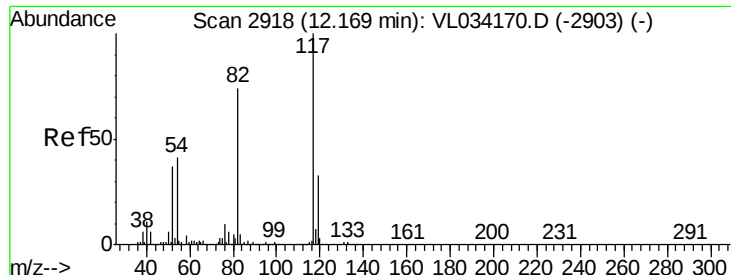
Tgt Ion: 57 Resp: 19366
 Ion Ratio Lower Upper
 57 100
 41 0.0 29.8 44.6#
 56 62.0 25.9 38.9#



#53
 Toluene
 Concen: 0.382 ppbv
 RT: 9.86 min Scan# 2200
 Delta R.T. -0.02 min
 Lab File: VL034292.D
 Acq: 14 Oct 2019 21:58

Tgt Ion: 91 Resp: 77224
 Ion Ratio Lower Upper
 91 100
 92 59.8 49.0 73.6

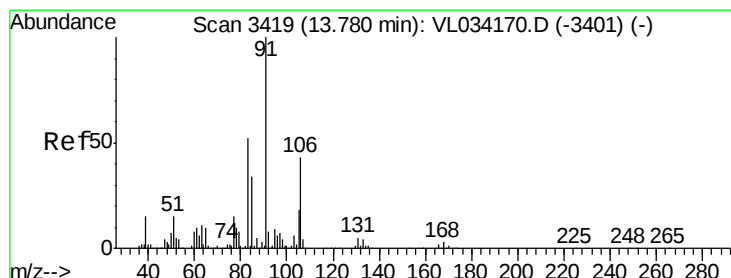
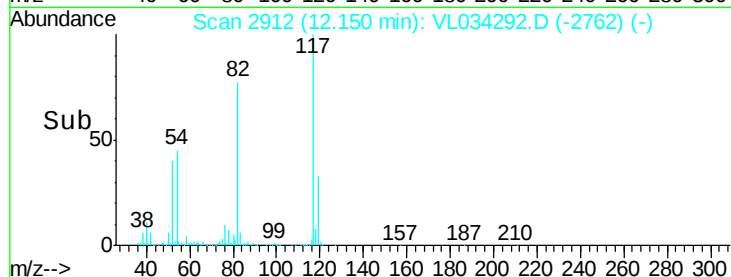
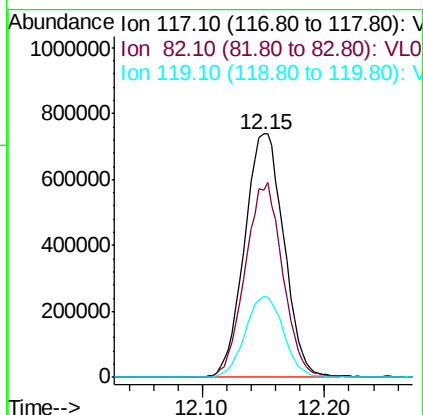
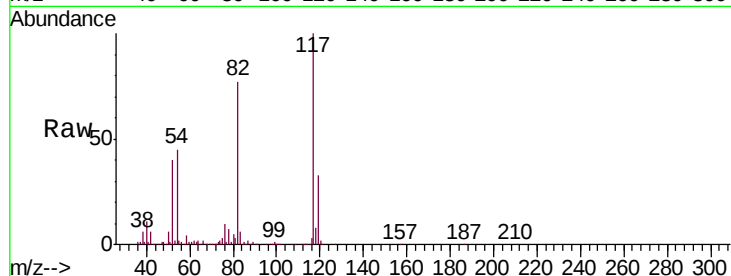




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.02 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

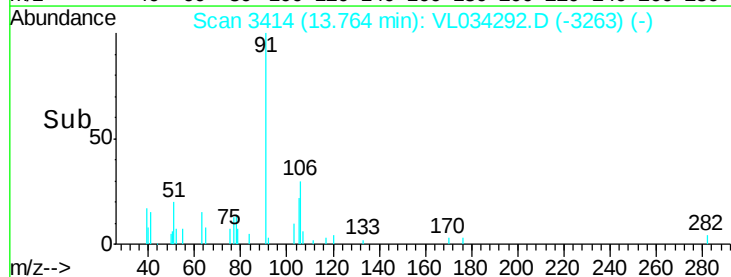
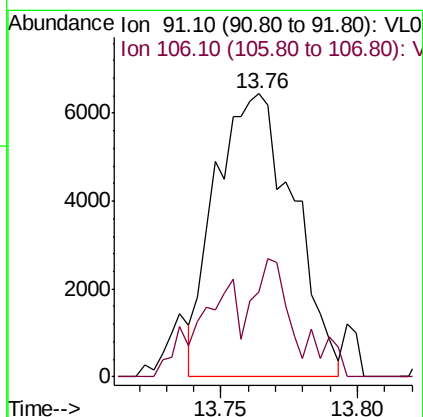
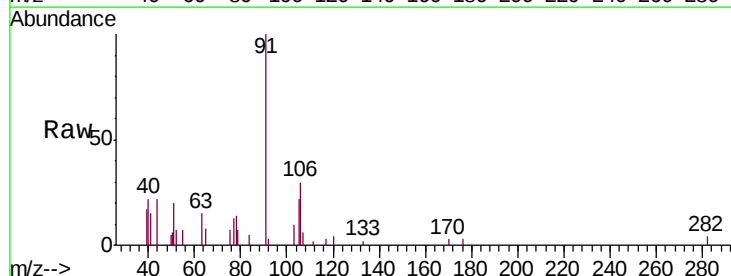
Instrument :
MSVOA_L
ClientSampleId :
OA1

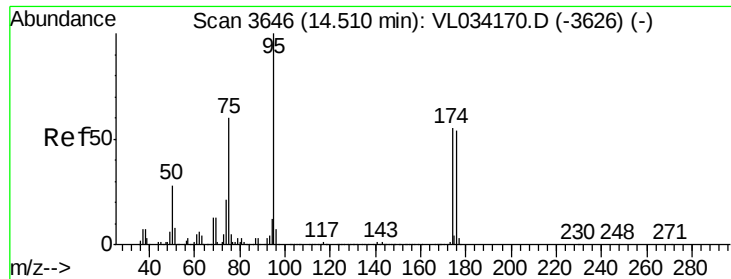
Tgt Ion:117 Resp: 1640913
Ion Ratio Lower Upper
117 100
82 76.4 58.2 87.4
119 32.4 23.7 35.5



#60
o-Xylene
Concen: 0.059 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. -0.02 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Tgt Ion: 91 Resp: 12851
Ion Ratio Lower Upper
91 100
106 40.6 21.2 63.6

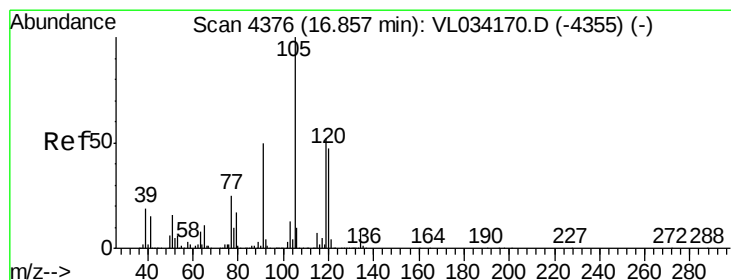
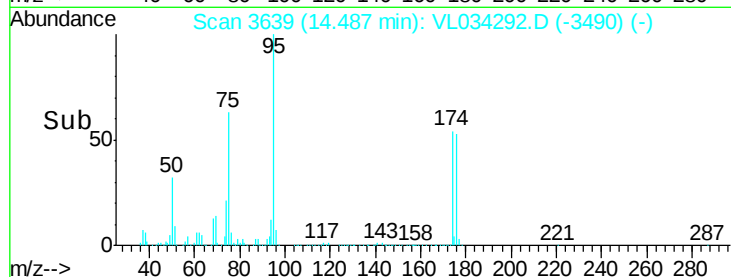
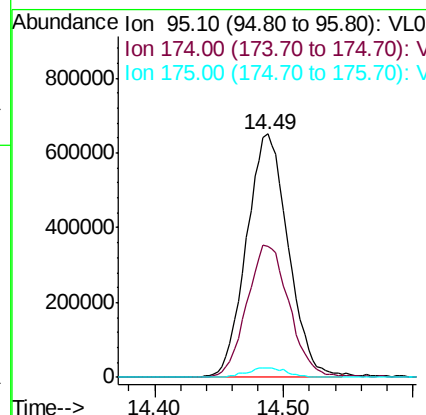
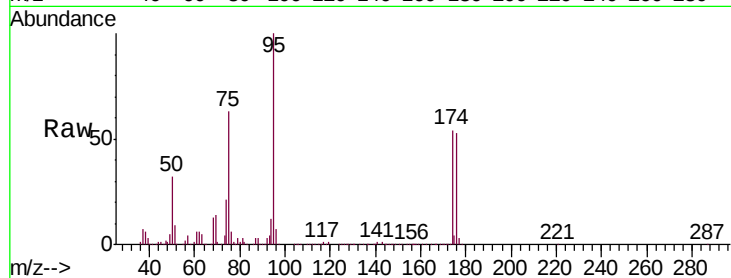




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.283 ppbv
 RT: 14.49 min Scan# 3639
 Delta R.T. -0.02 min
 Lab File: VL034292.D
 Acq: 14 Oct 2019 21:58

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 95 Resp: 1466203
 Ion Ratio Lower Upper
 95 100
 174 55.7 45.1 67.7
 175 3.9 3.3 4.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.037 ppbv
 RT: 16.83 min Scan# 4369
 Delta R.T. -0.02 min
 Lab File: VL034292.D
 Acq: 14 Oct 2019 21:58

Tgt Ion: 105 Resp: 9495
 Ion Ratio Lower Upper
 105 100
 120 30.7 37.5 56.3#
 91 14.3 41.1 61.7#
 77 1.1 19.9 29.9#

