

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034954.D
 Acq On : 7 May 2020 4:05
 Operator : SY/AP
 Sample : L2507-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 07 06:37:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1001727	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2309618	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2103321	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1740767	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

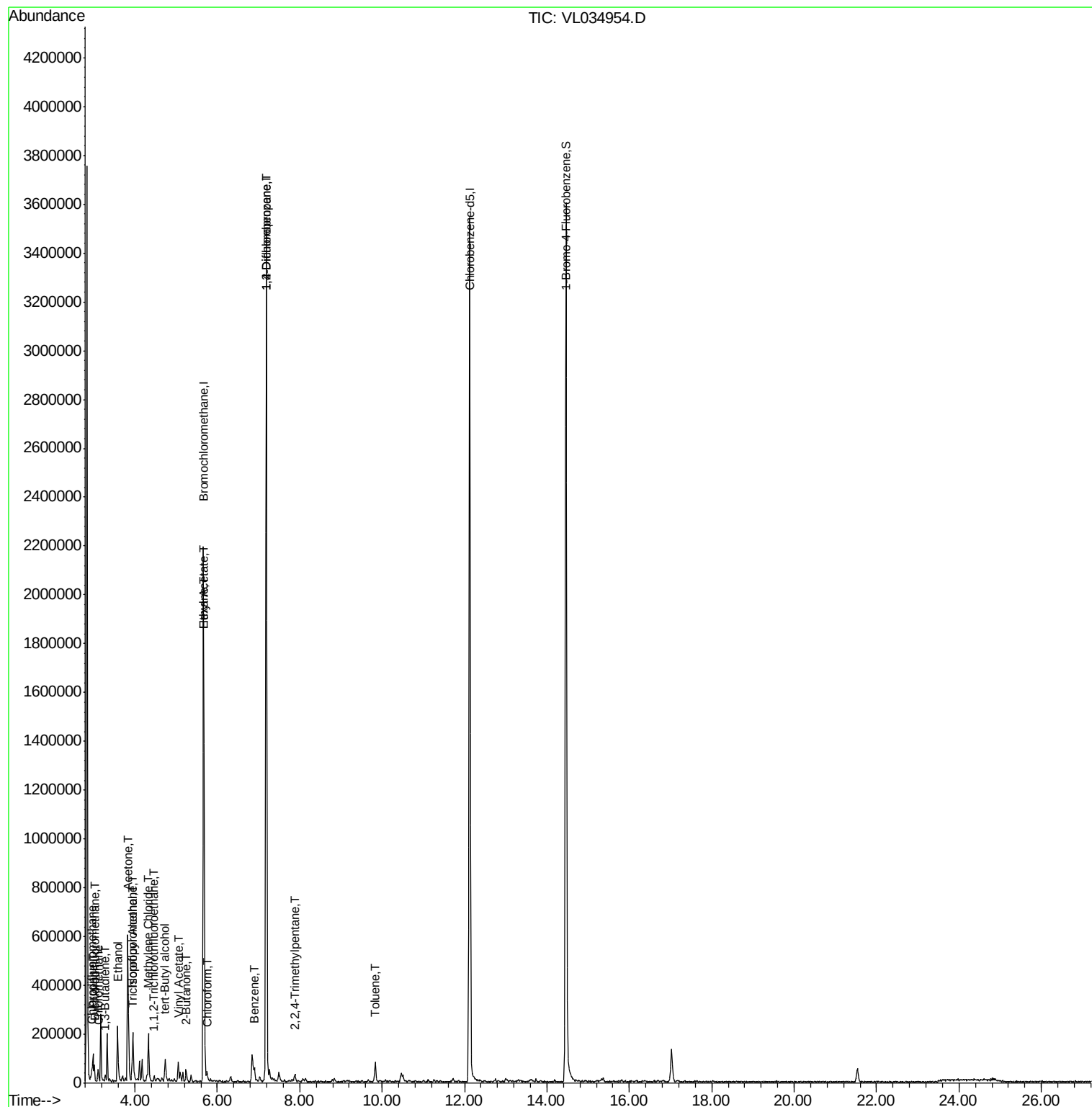
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	39453	0.278 ppbv	97
3) Chlorodifluoromethane	2.95	51	44115	0.386 ppbv	99
4) Chloromethane	3.11	50	33059	0.504 ppbv	98
9) Propene	2.98	41	17525	0.353 ppbv #	46
11) Trichlorofluoromethane	3.93	101	37508	0.256 ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4034	0.039 ppbv #	14
13) Ethanol	3.58	45	207360	12.662 ppbv	96
15) Acetone	3.83	43	610266	4.608 ppbv	97
16) 1,3-Butadiene	3.29	39	1940	0.034 ppbv #	81
17) tert-Butyl alcohol	4.73	59	29615	0.251 ppbv	99
19) Isopropyl Alcohol	3.95	45	166456	1.885 ppbv #	93
20) Methylene Chloride	4.32	84	34423	0.785 ppbv	95
23) Vinyl Acetate	5.05	43	69766	0.415 ppbv #	83
25) Ethyl Acetate	5.68	43	44081	0.198 ppbv #	86
26) Hexane	5.68	57	49788	0.516 ppbv #	44
29) Chloroform	5.75	83	7105	0.045 ppbv #	78
34) 2-Butanone	5.25	43	51314	0.357 ppbv	99
36) Benzene	6.90	78	14977	0.079 ppbv	93
39) 1,2-Dichloropropane	7.19	63	654860	8.579 ppbv #	25
44) 2,2,4-Trimethylpentane	7.88	57	9327	0.028 ppbv #	1
53) Toluene	9.83	91	27137	0.134 ppbv #	33

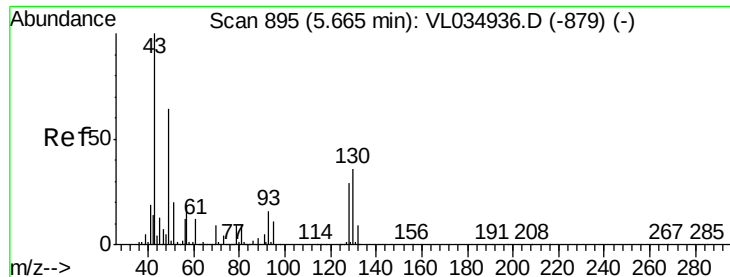
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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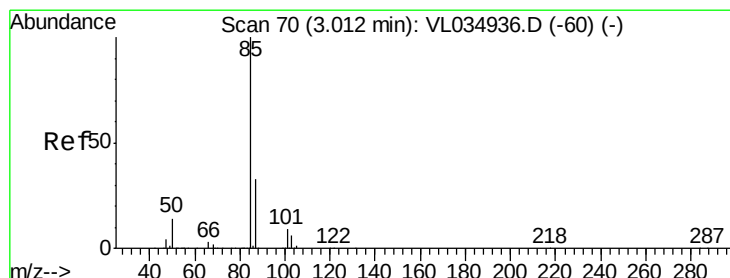
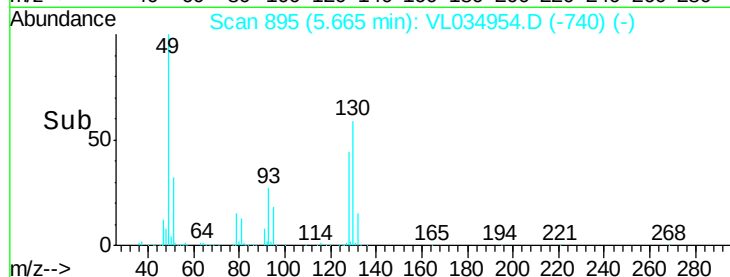
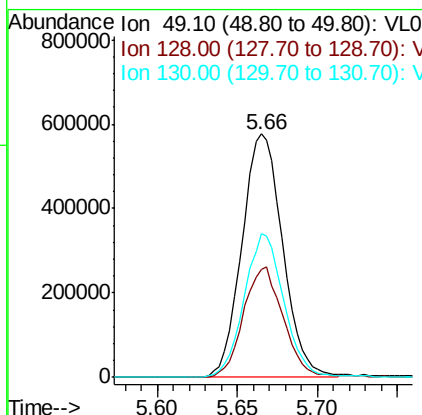
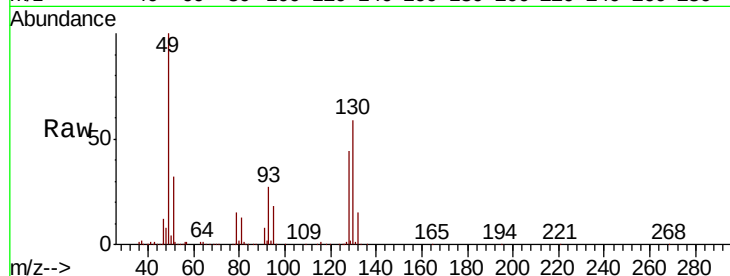




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. -0.00 min
 Lab File: VL034954.D
 Acq: 7 May 2020 4:05

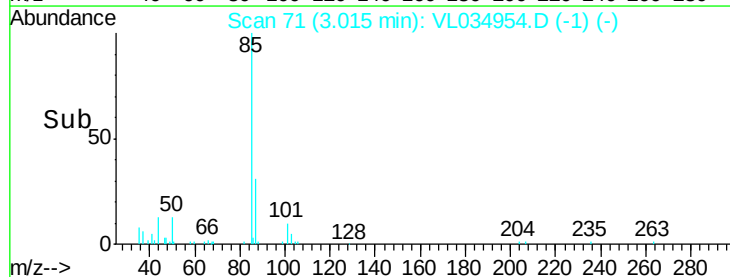
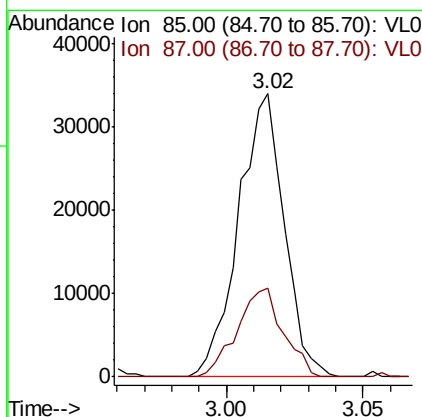
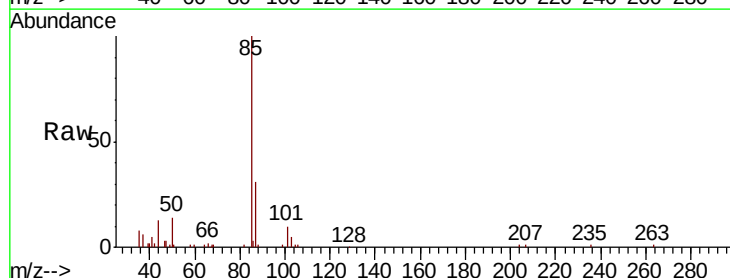
Instrument :
 MSVOA_L
 ClientSampleId :

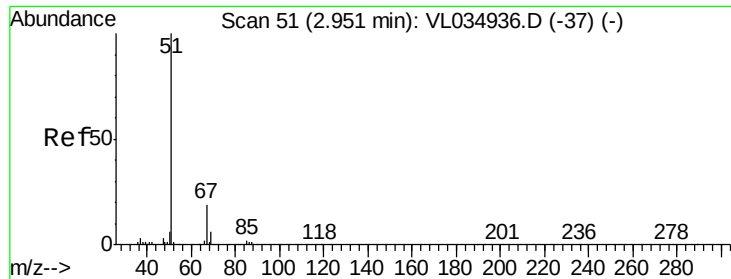
Tot Ion: 49 Resp: 1001727
 Ion Ratio Lower Upper
 49 100
 128 44.8 22.1 66.5
 130 58.0 29.1 87.3



#2
 Dichlorodifluoromethane
 Concen: 0.278 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.00 min
 Lab File: VL034954.D
 Acq: 7 May 2020 4:05

Tgt Ion: 85 Resp: 39453
 Ion Ratio Lower Upper
 85 100
 87 31.2 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.386 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

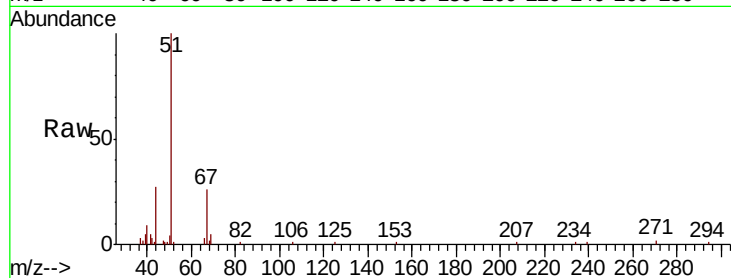
ClientSampleId :

Tot Ion: 51 Resp: 44115

Ion Ratio Lower Upper

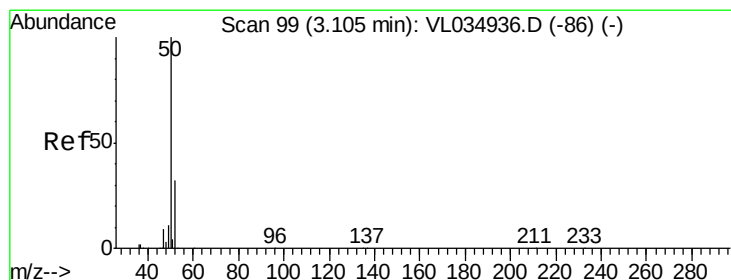
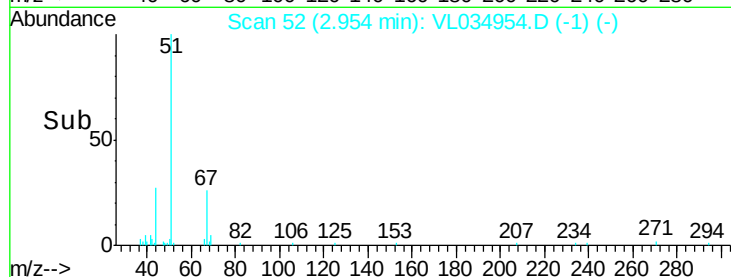
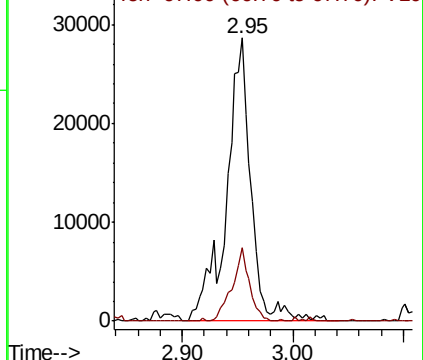
51 100

67 18.3 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.504 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034954.D

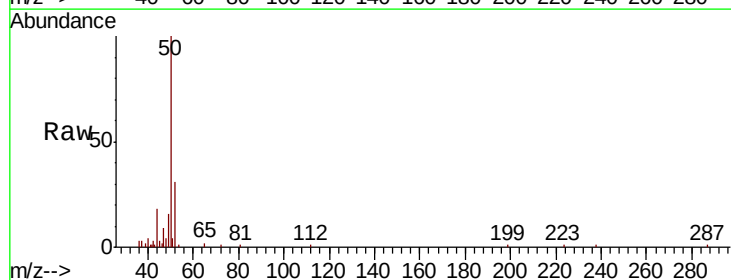
Acq: 7 May 2020 4:05

Tgt Ion: 50 Resp: 33059

Ion Ratio Lower Upper

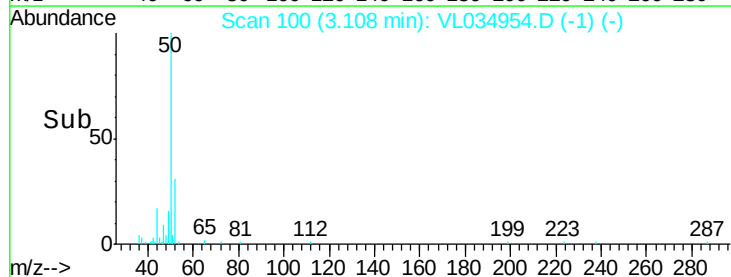
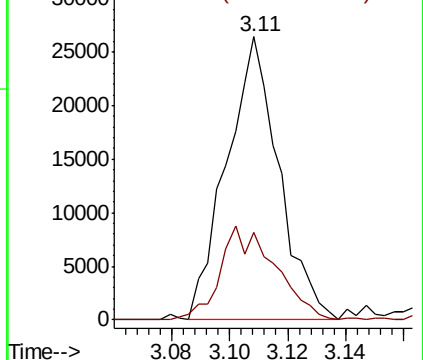
50 100

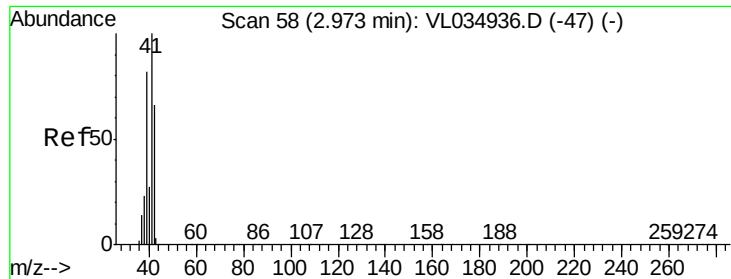
52 30.9 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.353 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

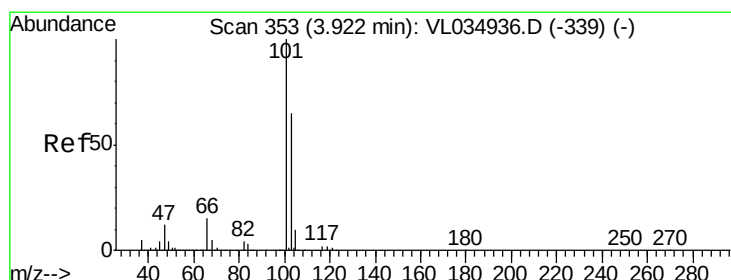
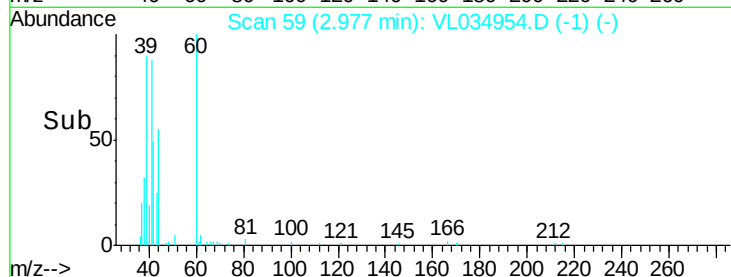
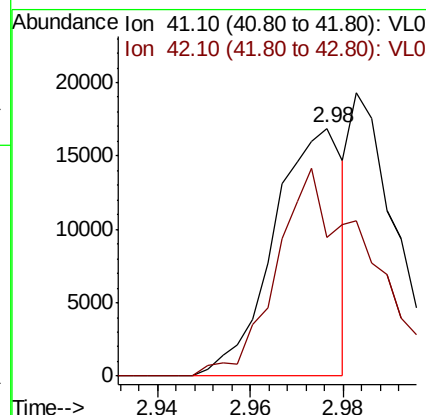
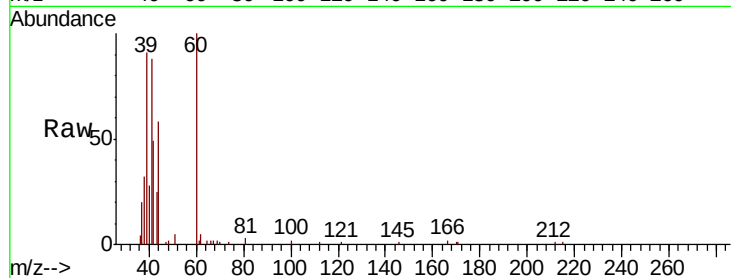
ClientSampleId :

Tot Ion: 41 Resp: 17525

Ion Ratio Lower Upper

41 100

42 111.4 54.5 81.7#



#11

Trichlorofluoromethane

Concen: 0.256 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.01 min

Lab File: VL034954.D

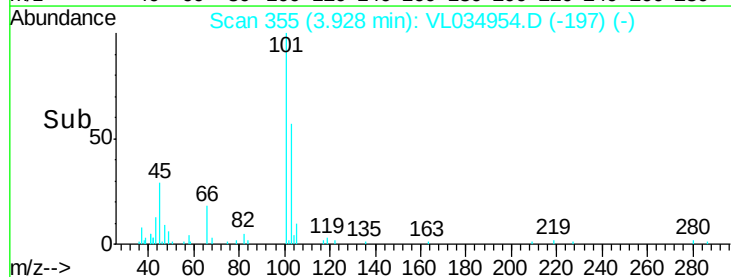
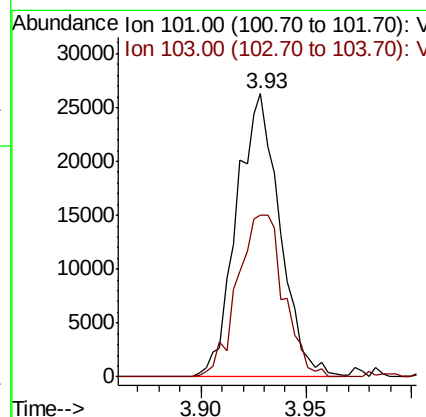
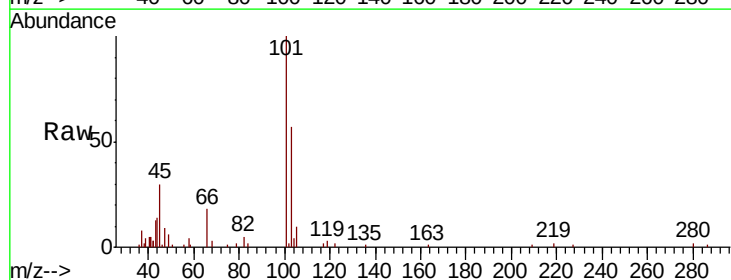
Acq: 7 May 2020 4:05

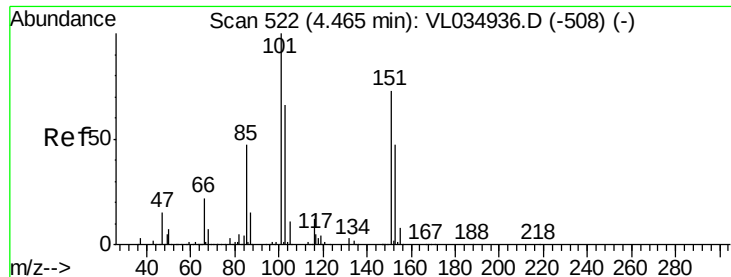
Tgt Ion: 101 Resp: 37508

Ion Ratio Lower Upper

101 100

103 57.1 51.9 77.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.039 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

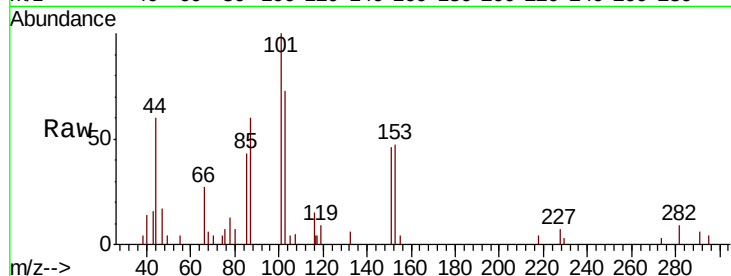
ClientSampleId :

Tot Ion:101 Resp: 4034

Ion Ratio Lower Upper

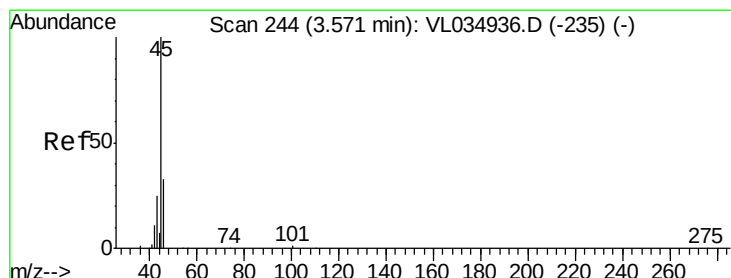
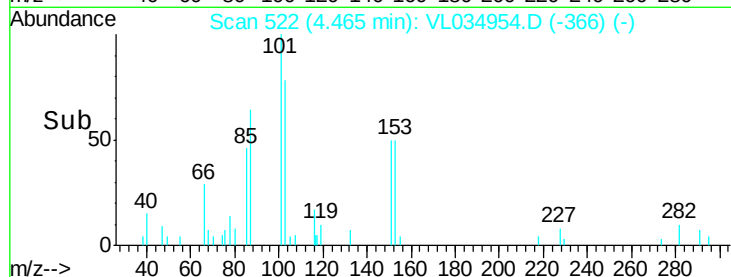
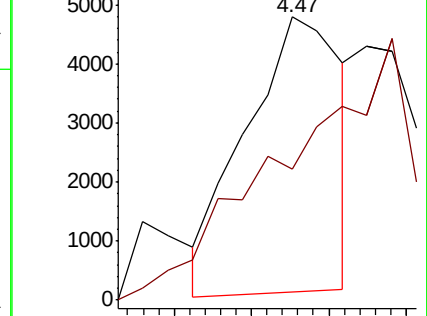
101 100

151 0.0 57.6 86.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.662 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL034954.D

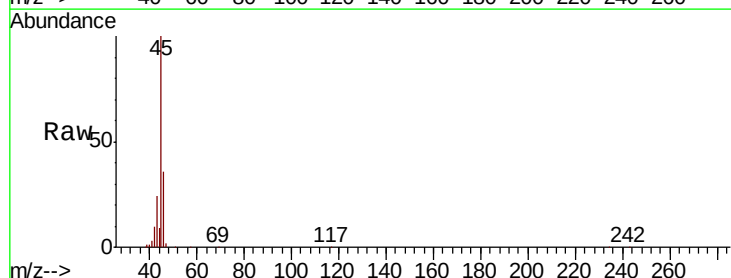
Acq: 7 May 2020 4:05

Tgt Ion: 45 Resp: 207360

Ion Ratio Lower Upper

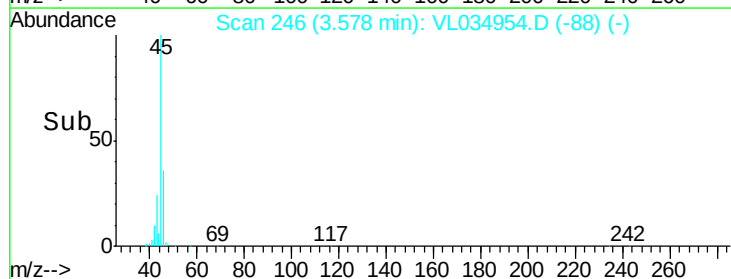
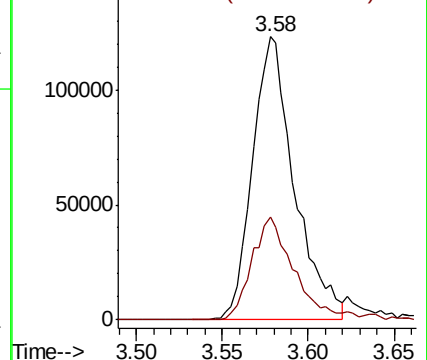
45 100

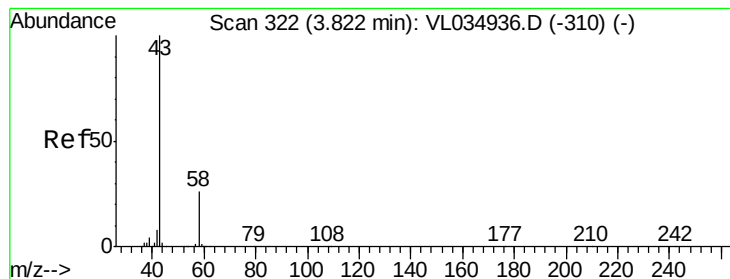
46 38.3 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.608 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

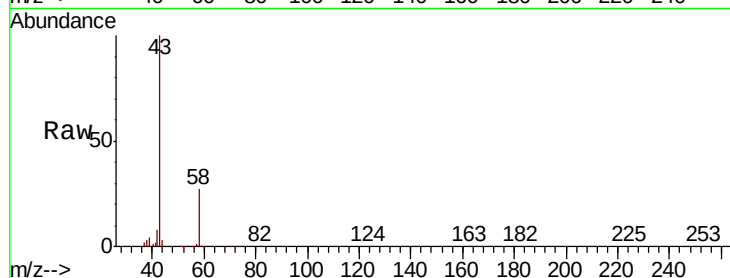
ClientSampleId :

Tot Ion: 43 Resp: 610266

Ion Ratio Lower Upper

43 100

58 25.6 21.7 32.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

400000

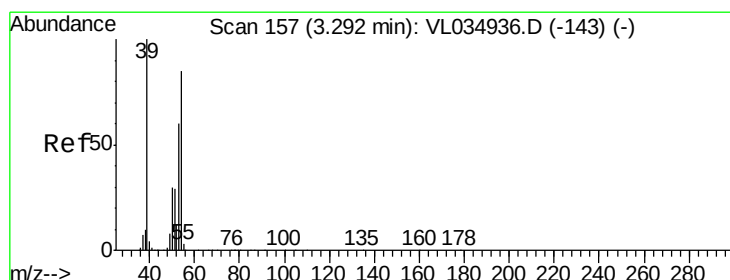
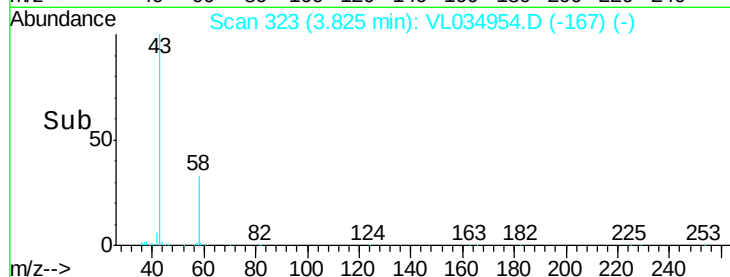
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.29 min Scan# 155

Delta R.T. -0.01 min

Lab File: VL034954.D

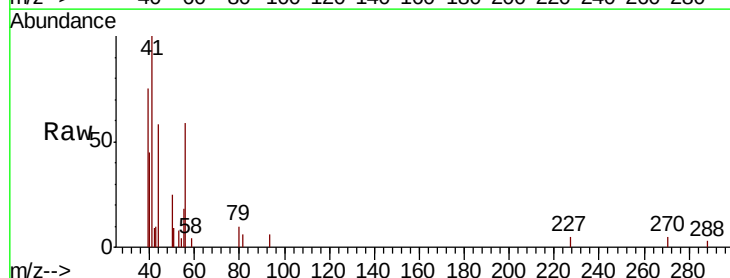
Acq: 7 May 2020 4:05

Tgt Ion: 39 Resp: 1940

Ion Ratio Lower Upper

39 100

54 100.7 66.6 100.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

6000

5000

4000

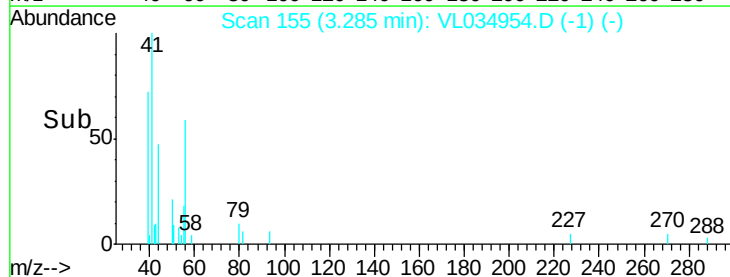
3000

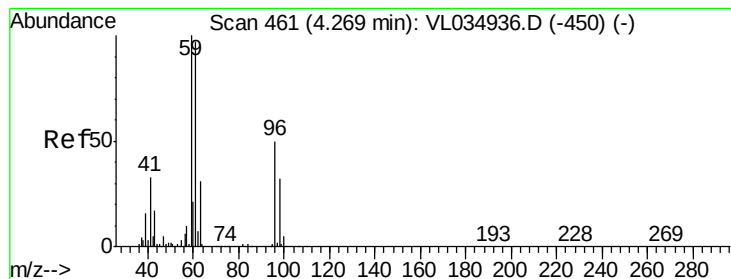
2000

1000

0

Time-->





#17

tert-Butyl alcohol

Concen: 0.251 ppbv

RT: 4.73 min Scan# 604

Delta R.T. 0.46 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

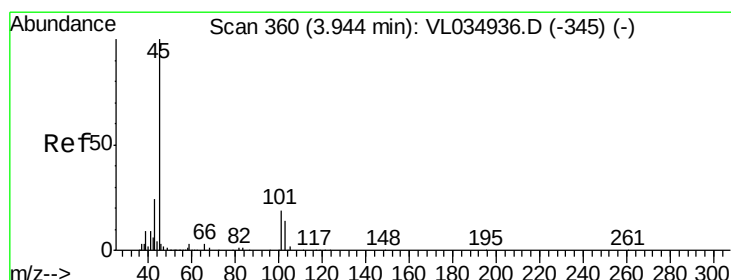
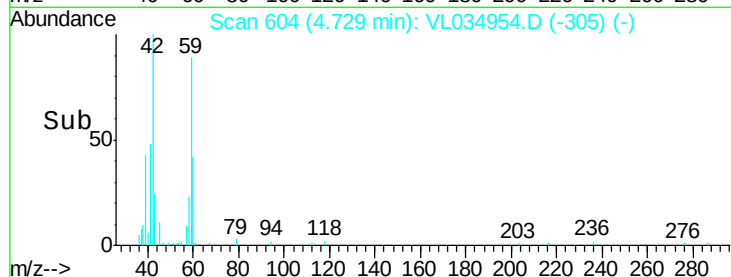
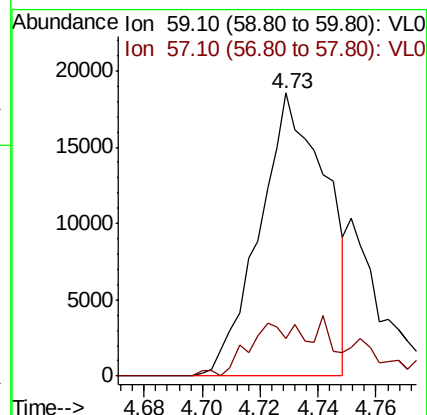
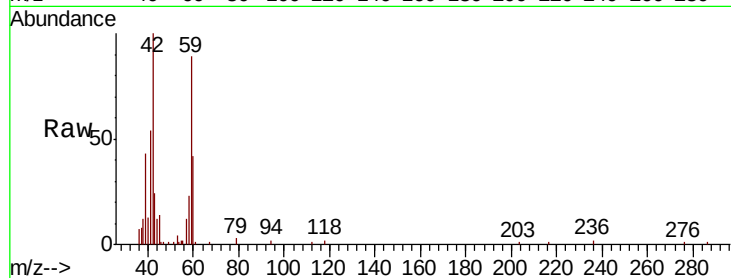
ClientSampleId :

Tot Ion: 59 Resp: 29615

Ion Ratio Lower Upper

59 100

57 11.4 8.7 13.1



#19

Isopropyl Alcohol

Concen: 1.885 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL034954.D

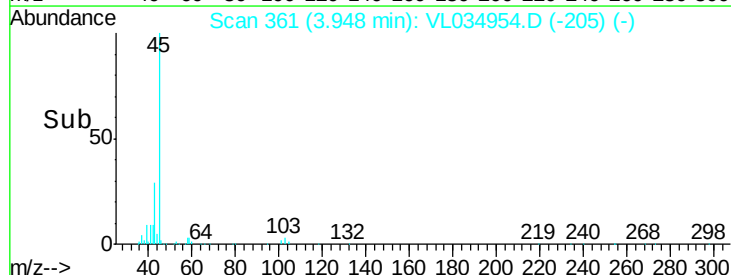
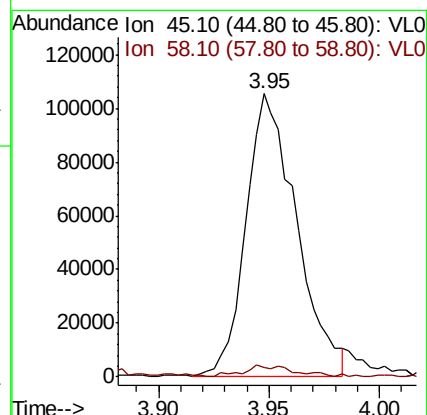
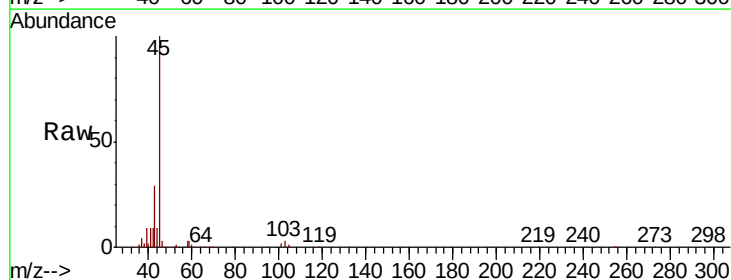
Acq: 7 May 2020 4:05

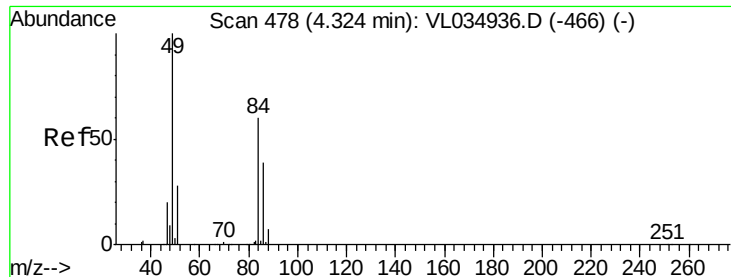
Tgt Ion: 45 Resp: 166456

Ion Ratio Lower Upper

45 100

58 4.6 1.7 2.5#

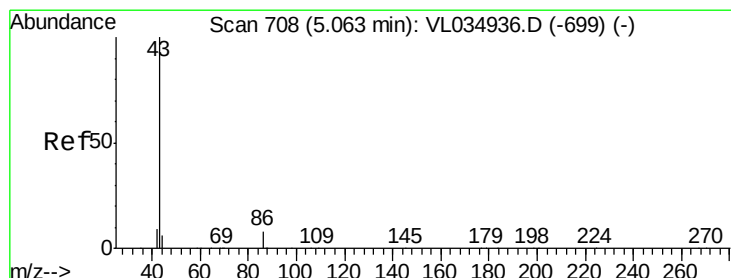
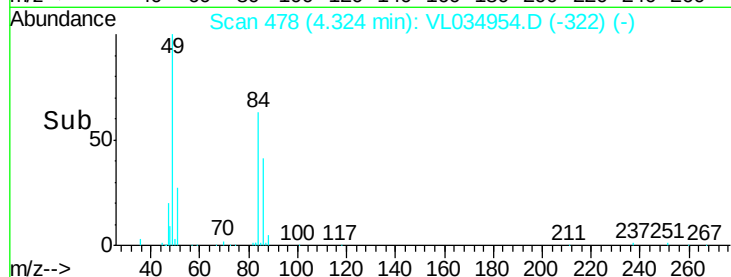
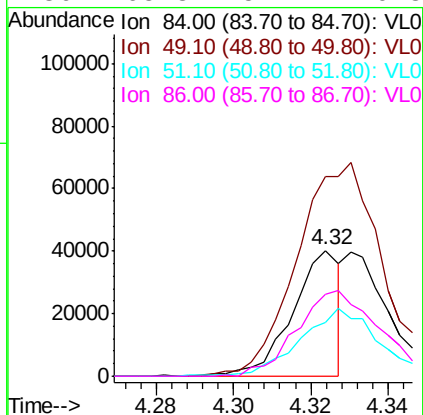
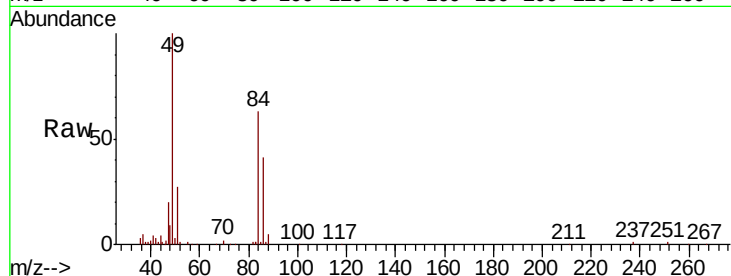




#20
Methylene Chloride
Concen: 0.785 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

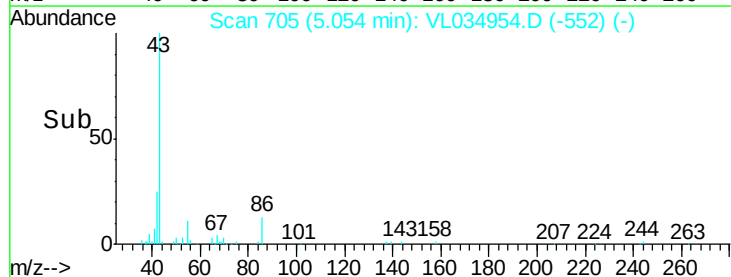
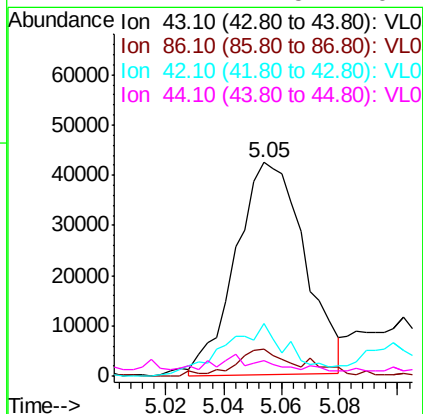
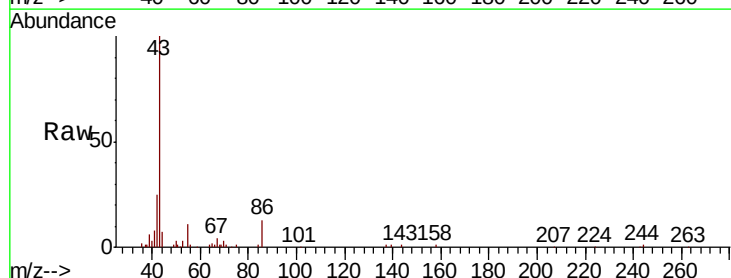
Instrument :
MSVOA_L
ClientSampled :

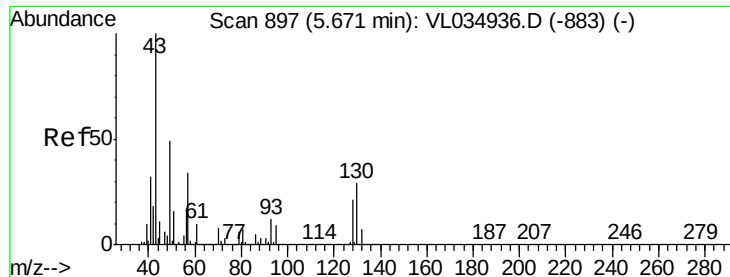
Tot Ion:	84	Resp:	34423
Ion	Ratio	Lower	Upper
84	100		
49	158.8	132.5	198.7
51	42.6	38.4	57.6
86	65.3	51.2	76.8



#23
Vinyl Acetate
Concen: 0.415 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.01 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

Tgt Ion:	43	Resp:	69766
Ion	Ratio	Lower	Upper
43	100		
86	10.5	5.5	8.3#
42	20.5	8.0	12.0#
44	4.4	4.5	6.7#

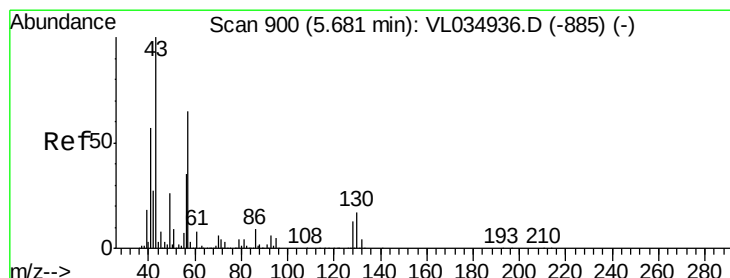
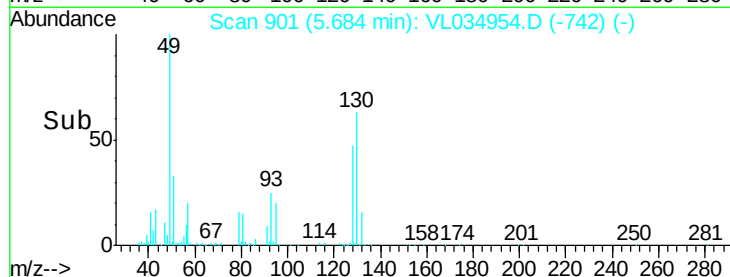
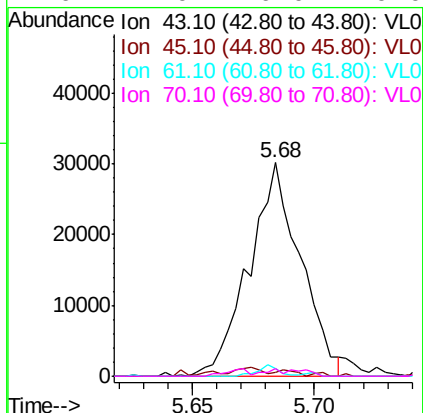
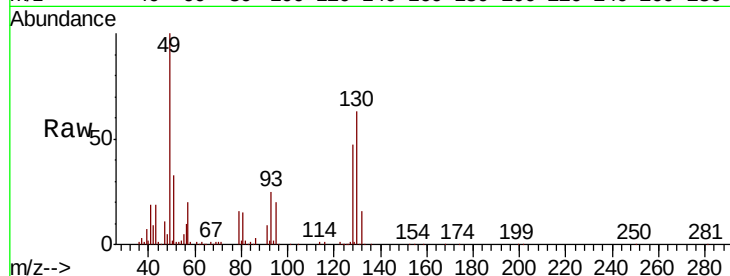




#25
Ethyl Acetate
Concen: 0.198 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

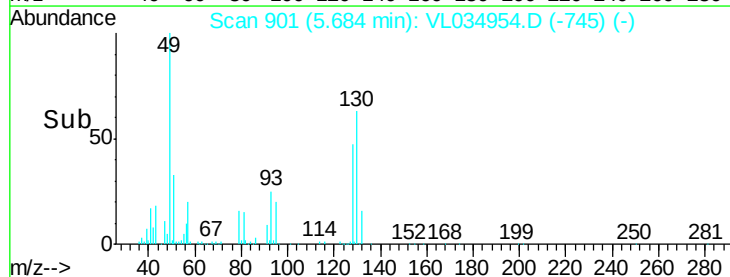
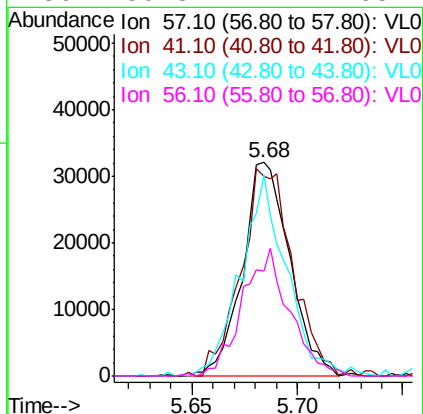
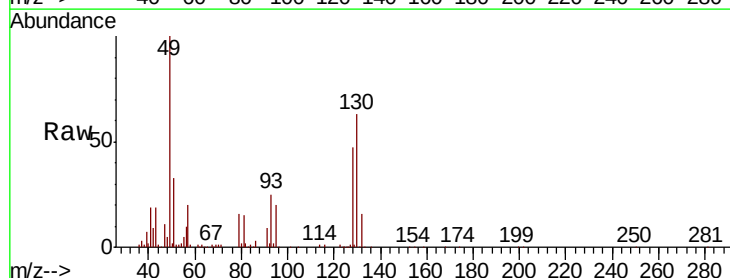
Instrument :
MSVOA_L
ClientSampleId :

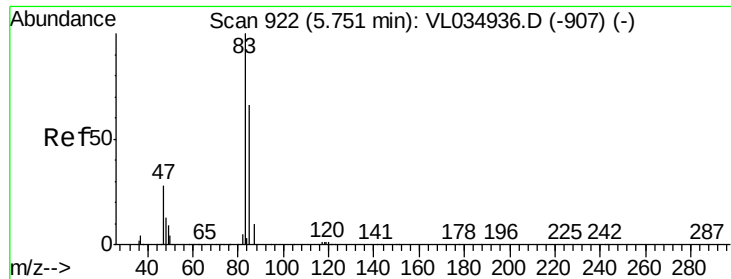
Tot Ion:	43	Resp:	44081
Ion	Ratio	Lower	Upper
43	100		
45	5.4	8.1	12.1#
61	2.6	7.8	11.8#
70	4.0	6.0	9.0#



#26
Hexane
Concen: 0.516 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

Tgt Ion:	57	Resp:	49788
Ion	Ratio	Lower	Upper
57	100		
41	106.6	72.7	109.1
43	92.3	182.1	273.1#
56	59.8	42.2	63.2

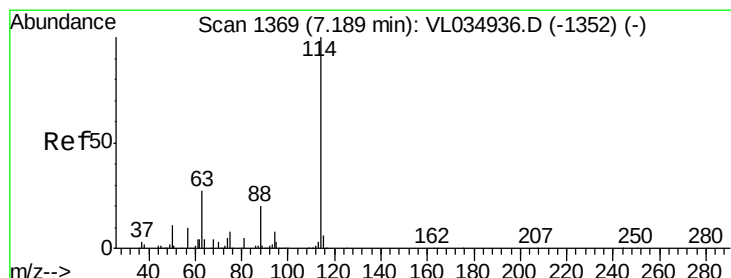
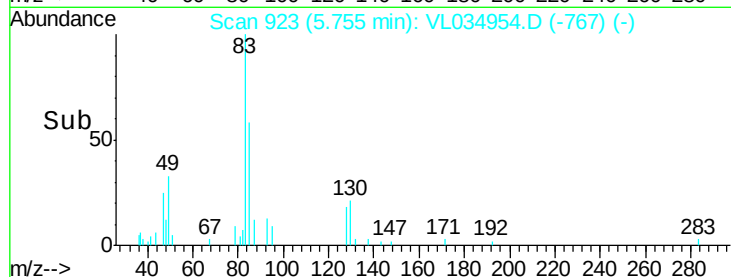
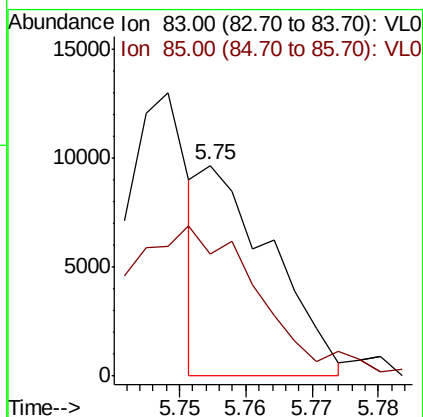
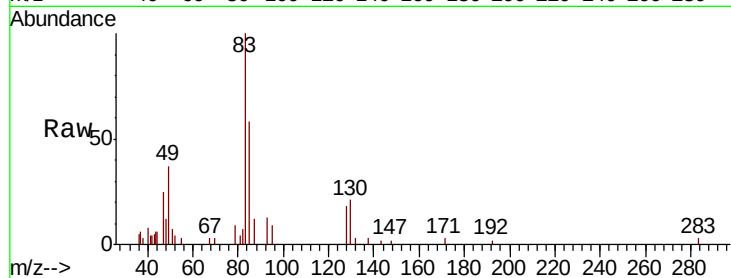




#29
Chloroform
Concen: 0.045 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.00 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

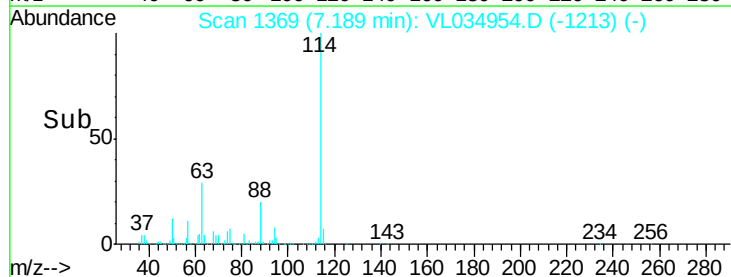
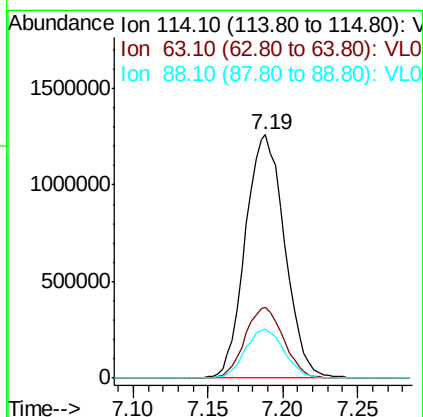
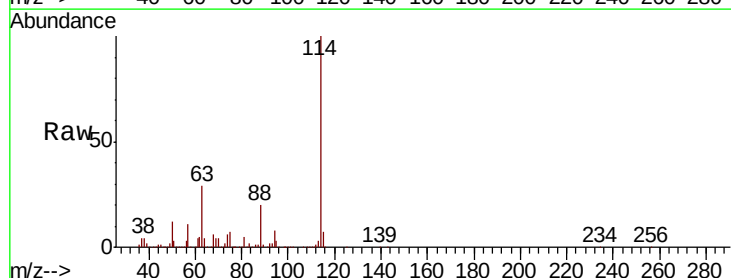
Instrument :
MSVOA_L
ClientSampleId :

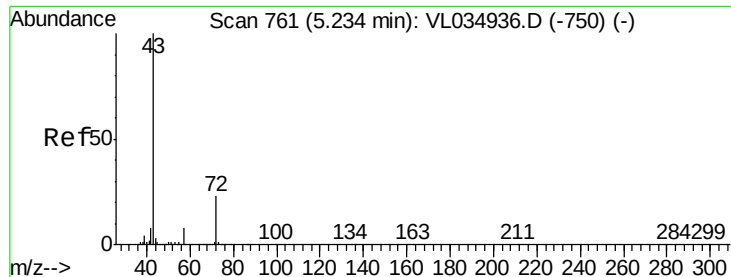
Tot Ion: 83 Resp: 7105
Ion Ratio Lower Upper
83 100
85 49.0 53.0 79.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

Tgt Ion: 114 Resp: 2309618
Ion Ratio Lower Upper
114 100
63 28.5 22.2 33.4
88 19.8 15.5 23.3

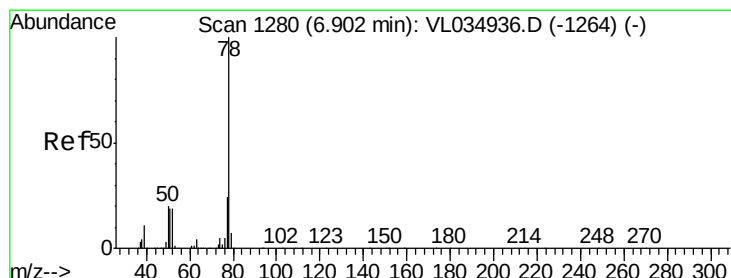
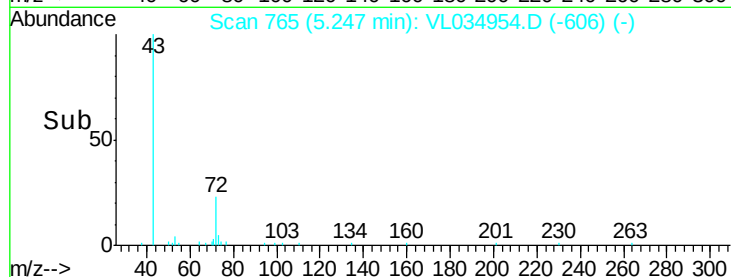
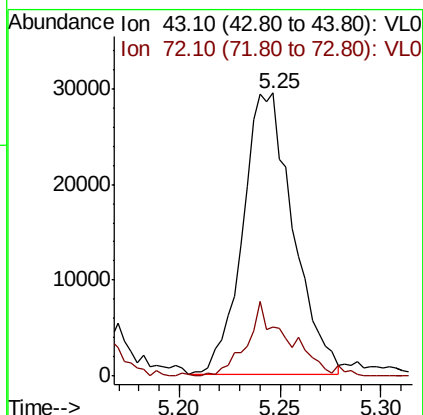
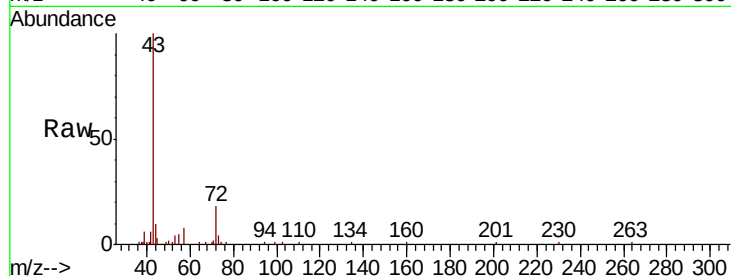




#34
2-Butanone
Concen: 0.357 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

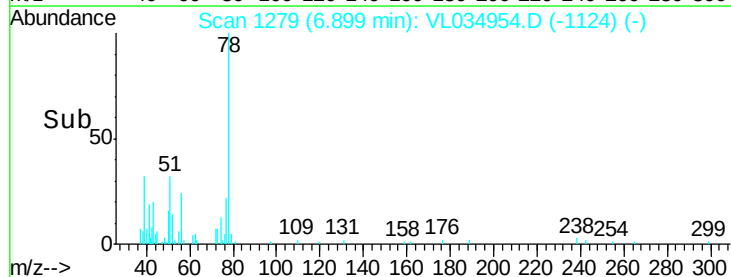
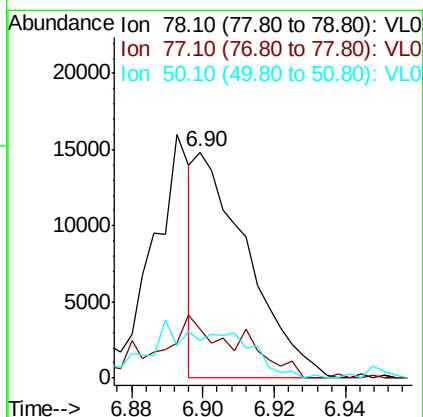
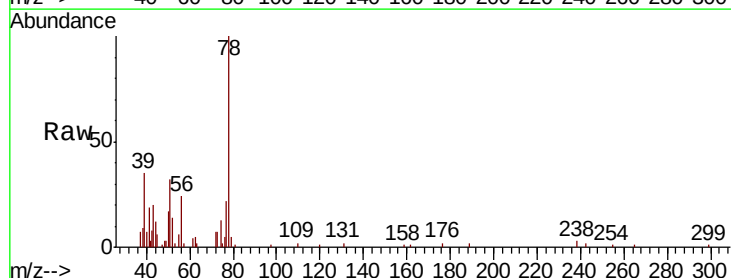
Instrument :
MSVOA_L
ClientSampleId :

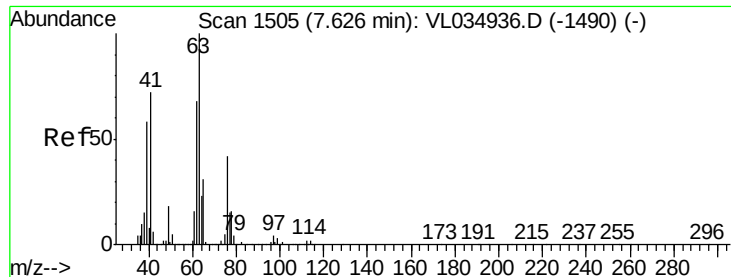
Tot Ion: 43 Resp: 51314
Ion Ratio Lower Upper
43 100
72 22.2 18.0 27.0



#36
Benzene
Concen: 0.079 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. -0.00 min
Lab File: VL034954.D
Acq: 7 May 2020 4:05

Tgt Ion: 78 Resp: 14977
Ion Ratio Lower Upper
78 100
77 20.1 19.0 28.6
50 16.8 15.8 23.8





#39

1,2-Dichloropropane

Concen: 8.579 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

ClientSampled :

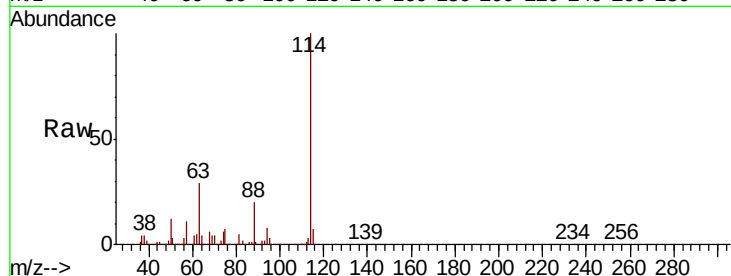
Tot Ion: 63 Resp: 654860

Ion Ratio Lower Upper

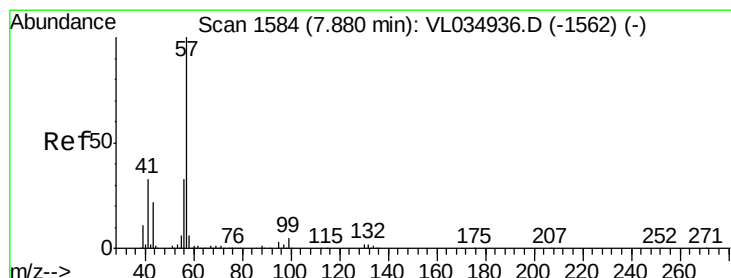
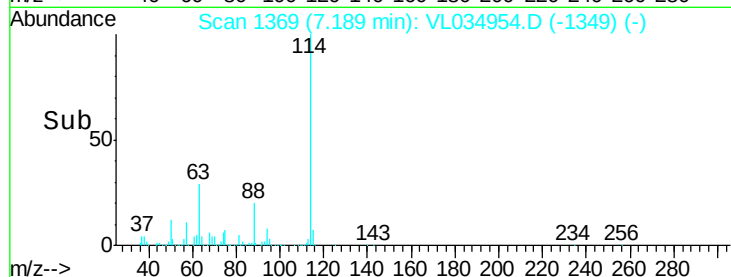
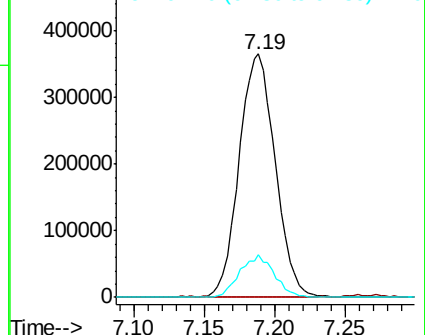
63 100

41 0.0 57.8 86.8#

62 17.4 54.2 81.2#



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: 0.028 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

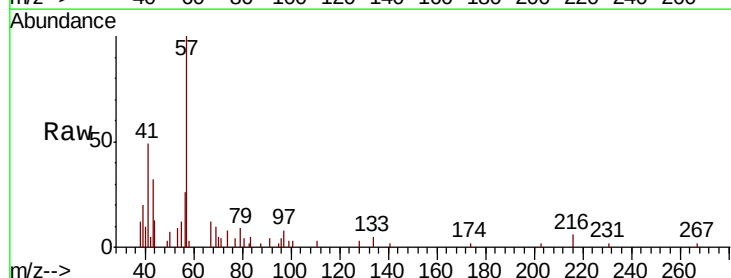
Tgt Ion: 57 Resp: 9327

Ion Ratio Lower Upper

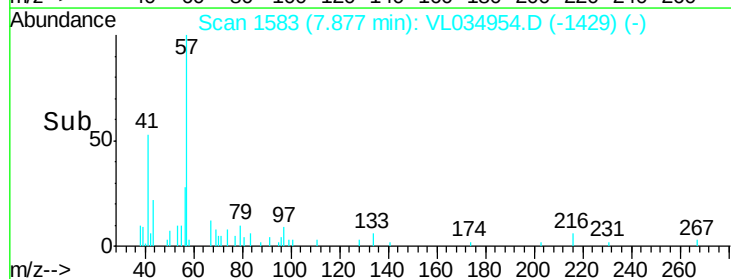
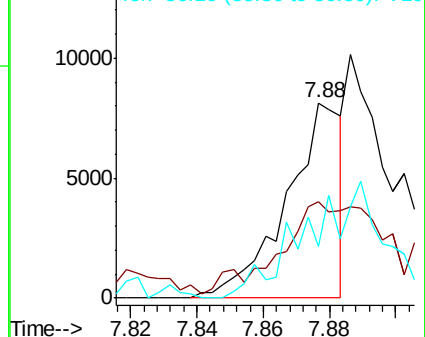
57 100

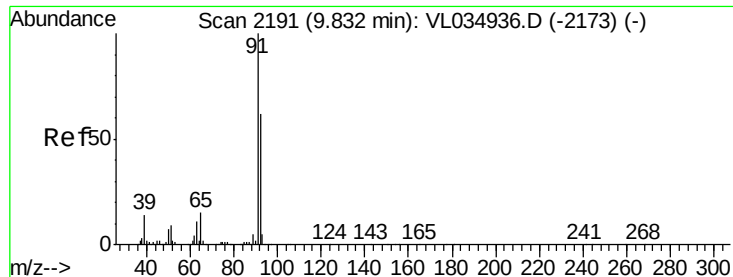
41 115.5 26.4 39.6#

56 0.0 25.5 38.3#



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: 0.134 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

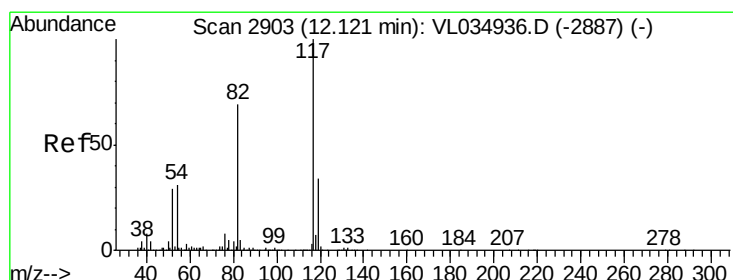
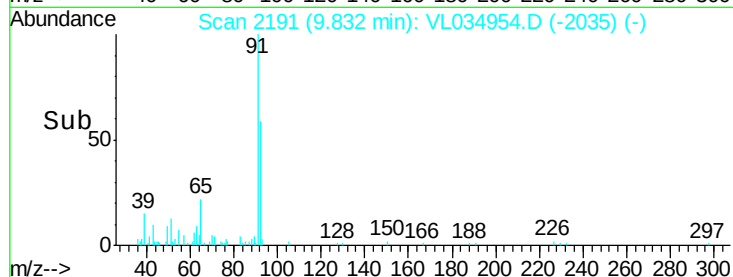
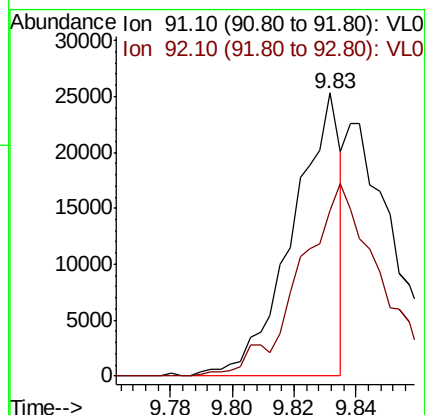
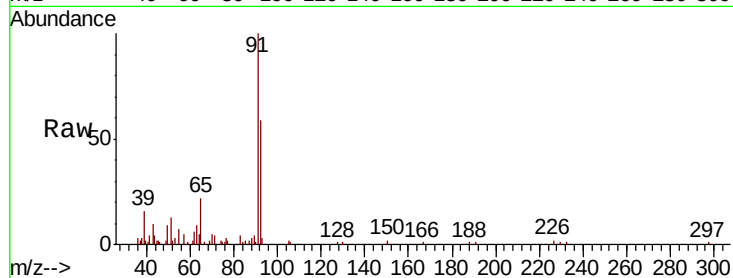
ClientSampled :

Tot Ion: 91 Resp: 27137

Ion Ratio Lower Upper

91 100

92 112.1 48.6 73.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. -0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

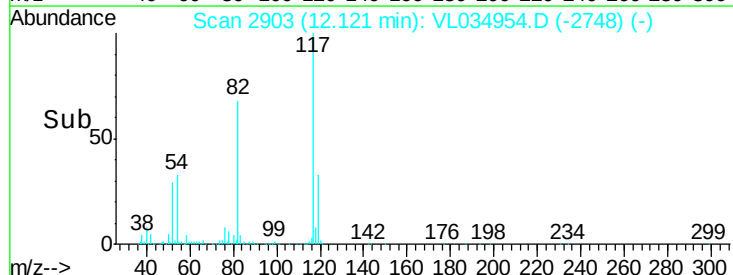
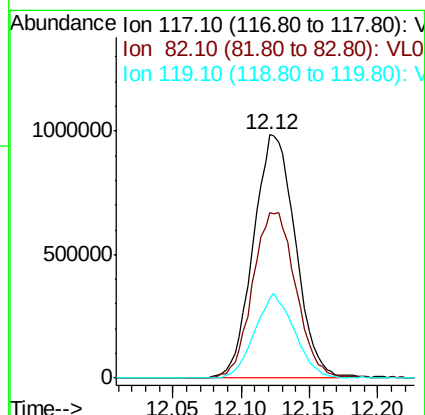
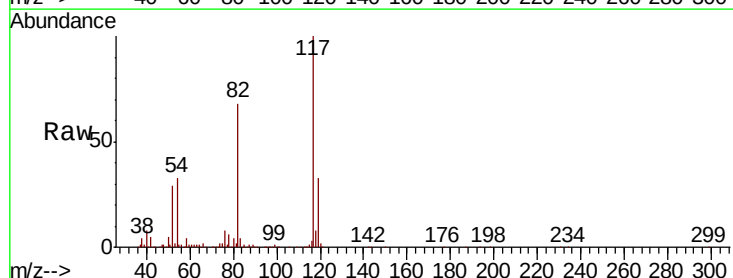
Tgt Ion: 117 Resp: 2103321

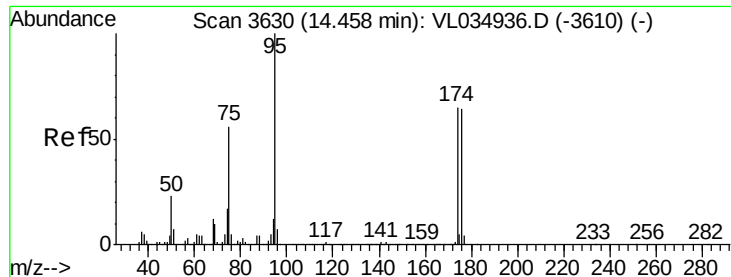
Ion Ratio Lower Upper

117 100

82 70.5 53.1 79.7

119 33.1 26.7 40.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.225 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VL034954.D

Acq: 7 May 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

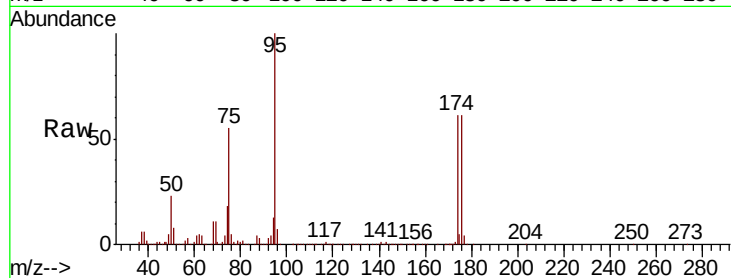
Tot Ion: 95 Resp: 1740767

Ion Ratio Lower Upper

95 100

174 64.6 51.5 77.3

175 4.4 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

