

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035070.D
 Acq On : 20 May 2020 7:57
 Operator : SY/AP
 Sample : L2712-02 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

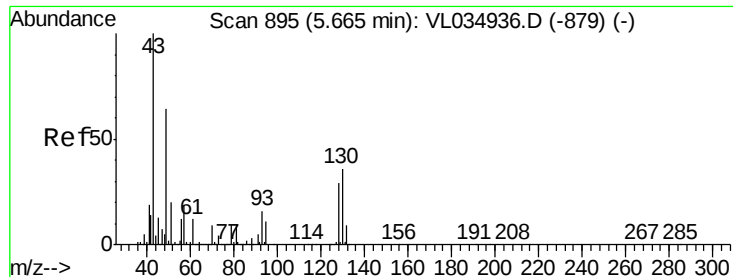
Quant Time: May 20 08:34:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1215784	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2772265	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	2685037	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2290997	10.54	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	10537	0.061 ppbv	# 47
3) Chlorodifluoromethane	2.94	51	5530	0.040 ppbv	# 82
4) Chloromethane	3.09	50	3163	0.040 ppbv	# 87
9) Propene	2.96	41	26905	0.447 ppbv	90
10) Heptane	8.10	43	9402	0.062 ppbv	# 26
11) Trichlorofluoromethane	3.91	101	5549	0.031 ppbv	# 51
13) Ethanol	3.56	45	7258	0.365 ppbv	# 39
15) Acetone	3.80	43	4711002	29.310 ppbv	92
16) 1,3-Butadiene	3.26	39	268694	3.885 ppbv	# 15
17) tert-Butyl alcohol	4.25	59	269424	1.884 ppbv	98
19) Isopropyl Alcohol	3.93	45	73913	0.690 ppbv	# 94
20) Methylene Chloride	4.31	84	11678	0.219 ppbv	# 88
23) Vinyl Acetate	5.04	43	9252	0.045 ppbv	# 81
25) Ethyl Acetate	5.65	43	15168	0.056 ppbv	# 79
26) Hexane	5.66	57	38301	0.327 ppbv	# 20
34) 2-Butanone	5.21	43	619597	3.596 ppbv	99
39) 1,2-Dichloropropane	7.16	63	736857	8.042 ppbv	# 26
51) 2-Hexanone	10.14	43	170099	0.885 ppbv	# 97
53) Toluene	9.81	91	126859	0.524 ppbv	96
58) Ethyl Benzene	12.72	91	31483	0.095 ppbv	91
59) m/p-Xylene	13.00	91	36009	0.123 ppbv	# 8
60) o-Xylene	13.70	91	68921	0.239 ppbv	100
74) 1,2,4-Trimethylbenzene	16.78	105	35762	0.105 ppbv	# 76

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035070.D

Acq: 20 May 2020 7:57

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MSVOA_L

ClientSampleId :

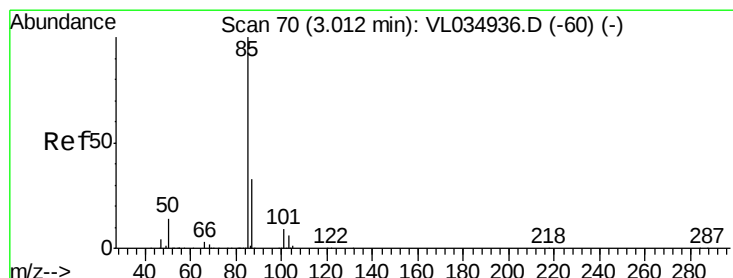
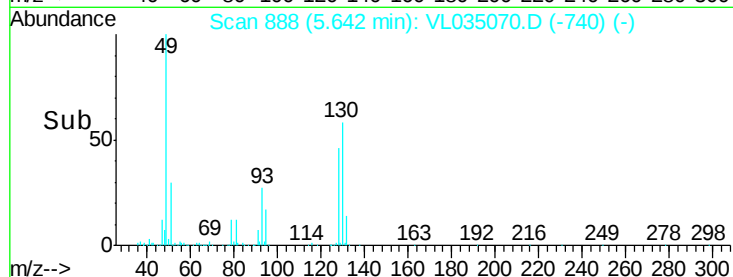
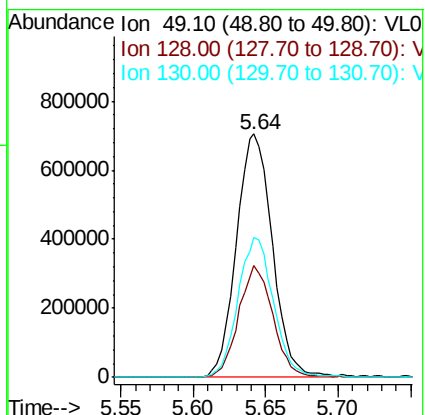
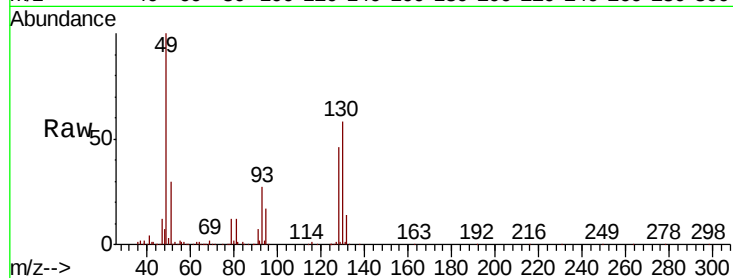
Tot Ion: 49 Resp: 1215784

Ion Ratio Lower Upper

49 100

128 44.3 22.1 66.5

130 57.1 29.1 87.3



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035070.D

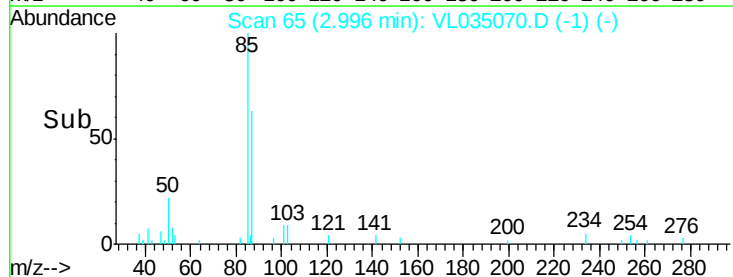
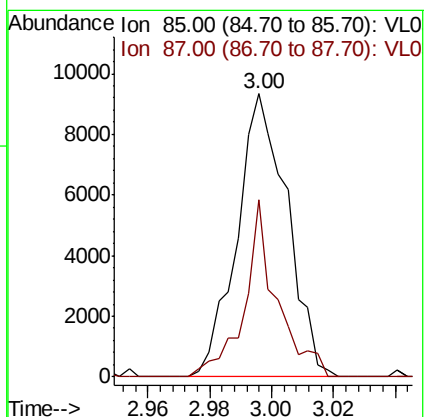
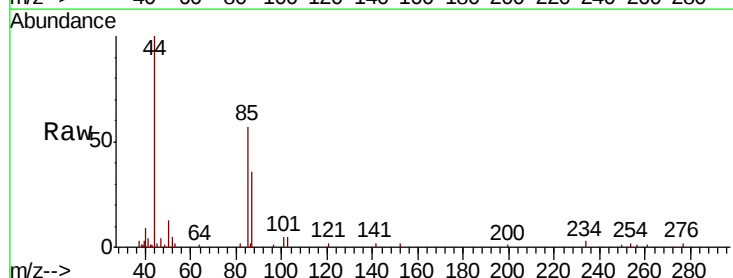
Acq: 20 May 2020 7:57

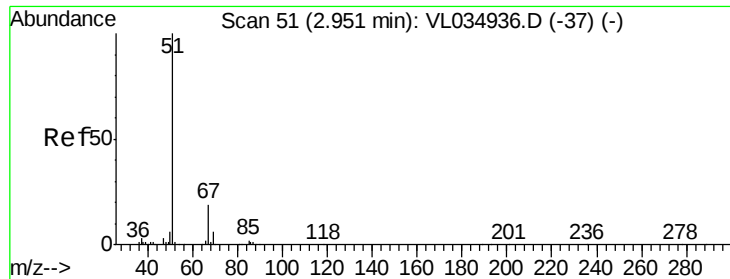
Tgt Ion: 85 Resp: 10537

Ion Ratio Lower Upper

85 100

87 62.6 26.2 39.2#





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.01 min

Lab File: VL035070.D

Acq: 20 May 2020 7:57

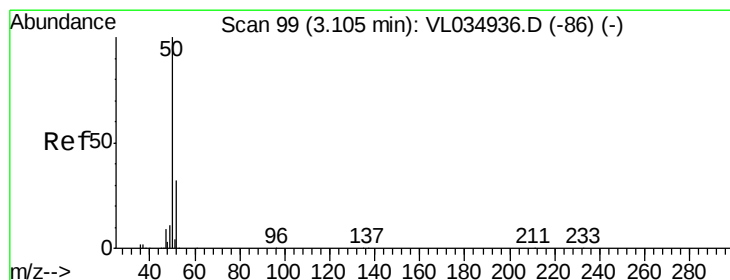
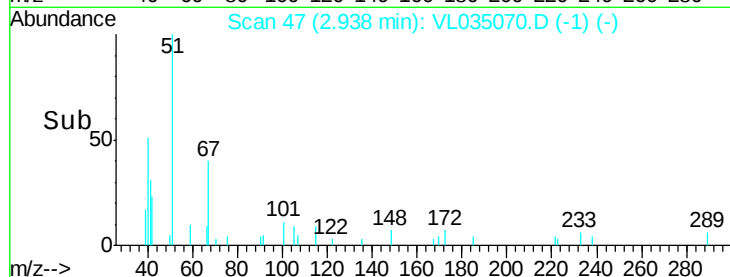
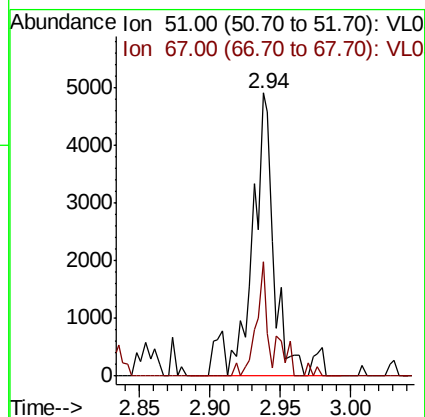
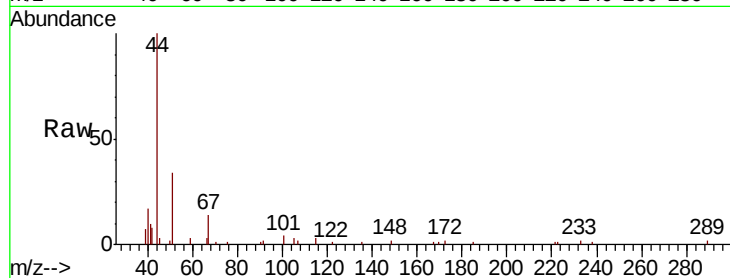
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 51 Resp: 5530

Ion Ratio Lower Upper

51 100

67 26.9 15.0 22.6#



#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035070.D

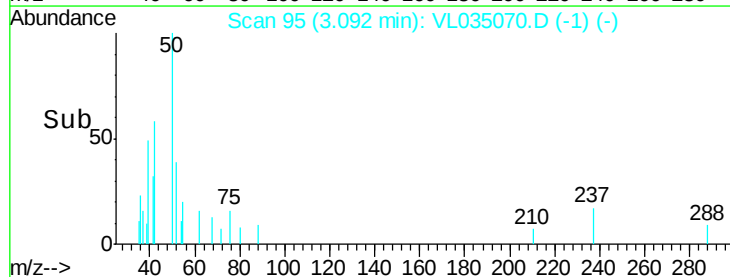
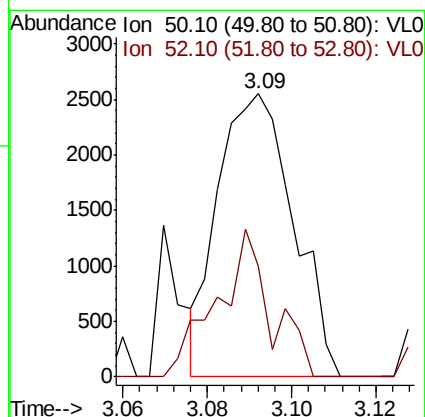
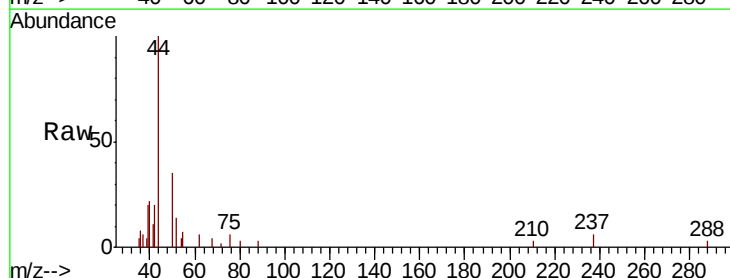
Acq: 20 May 2020 7:57

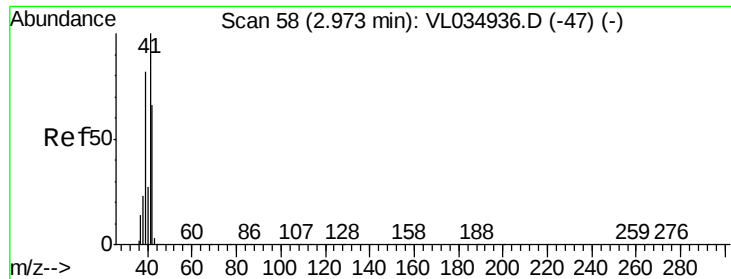
Tgt Ion: 50 Resp: 3163

Ion Ratio Lower Upper

50 100

52 39.0 25.4 38.2#





#9

Propene

Concen: 0.447 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.01 min

Lab File: VL035070.D

Acq: 20 May 2020 7:57

Instrument :

MSVOA_L

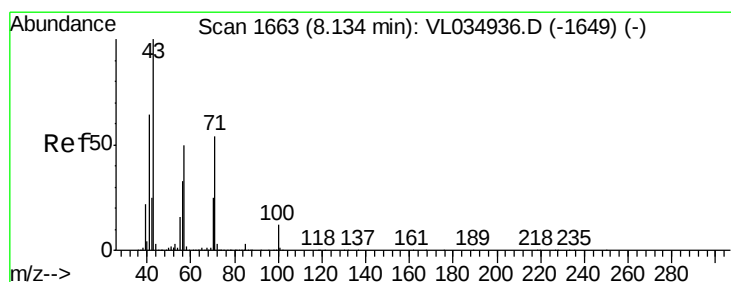
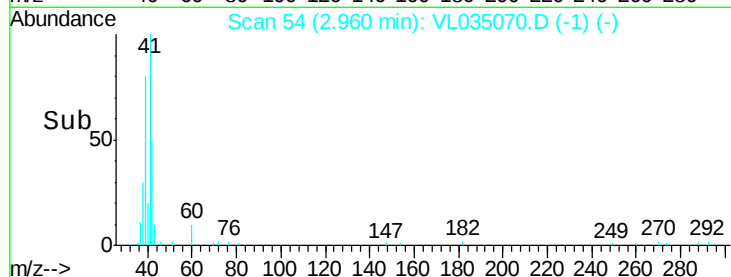
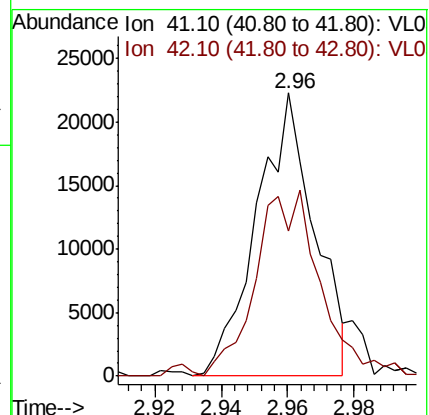
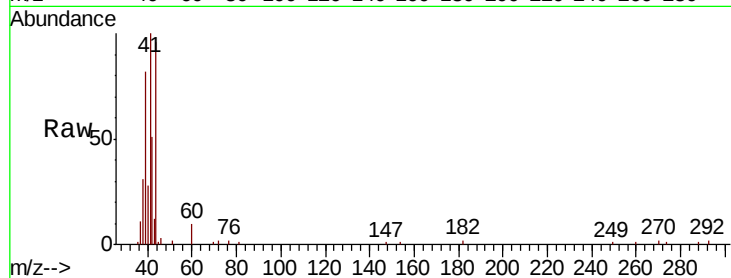
ClientSampleId :

Tot Ion: 41 Resp: 26905

Ion Ratio Lower Upper

41 100

42 75.9 54.5 81.7



#10

Heptane

Concen: 0.062 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.04 min

Lab File: VL035070.D

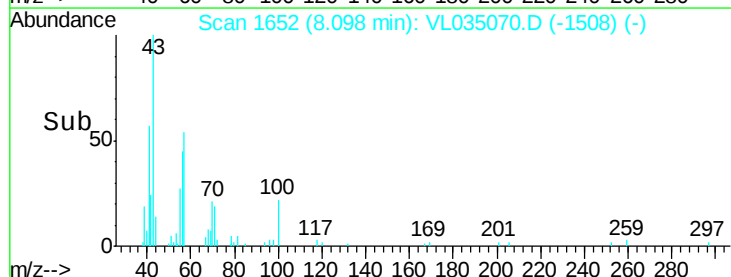
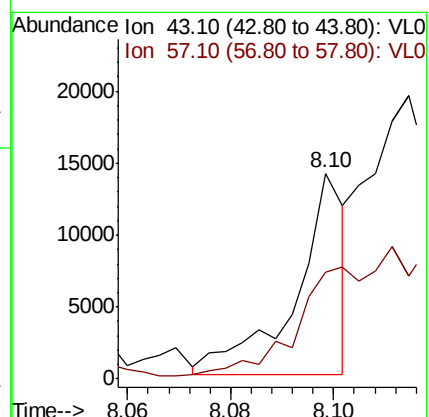
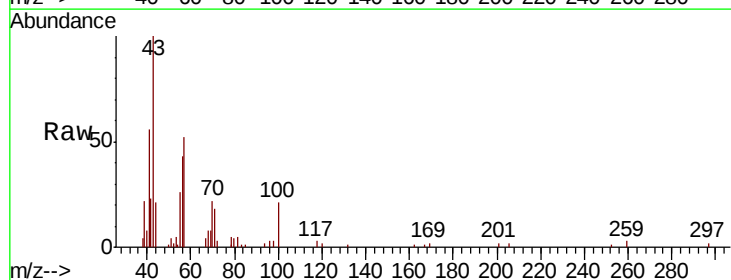
Acq: 20 May 2020 7:57

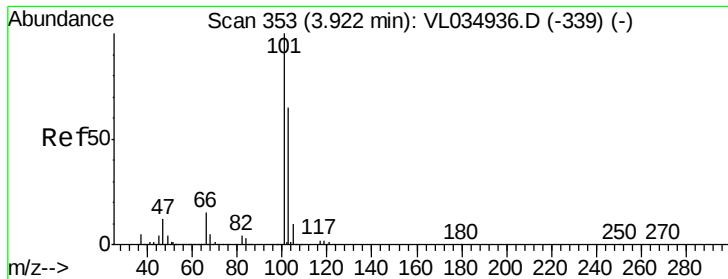
Tgt Ion: 43 Resp: 9402

Ion Ratio Lower Upper

43 100

57 0.0 41.1 61.7#

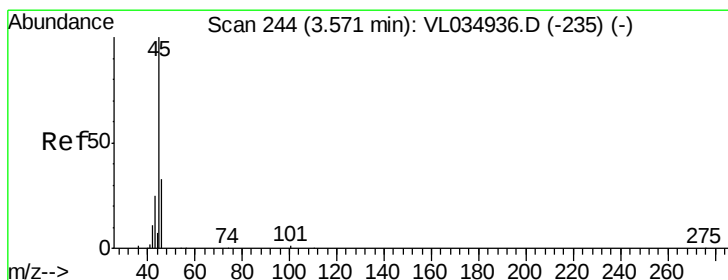
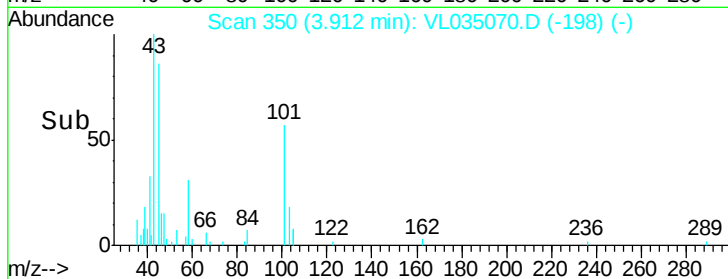
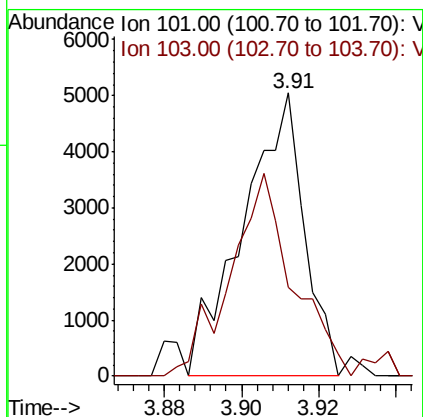
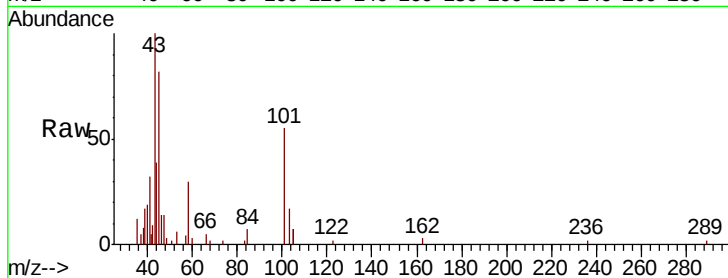




#11
 Trichlorofluoromethane
 Concen: 0.031 ppbv
 RT: 3.91 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

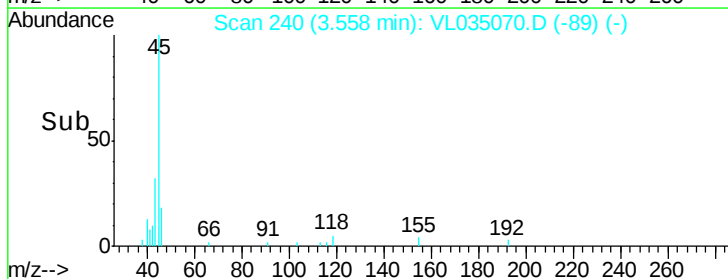
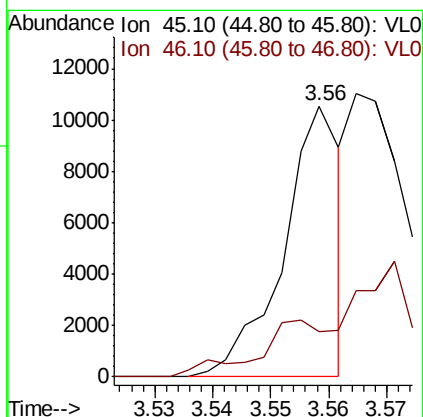
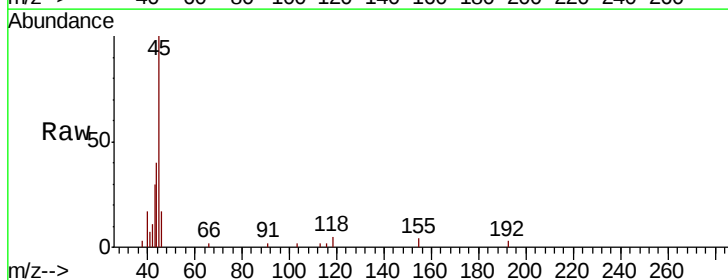
Instrument :
 MSVOA_L
 ClientSampleId :

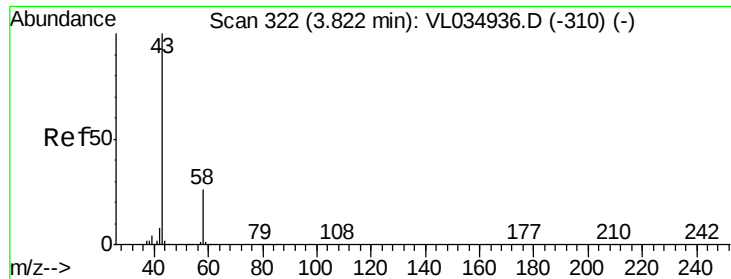
Tot Ion:101 Resp: 5549
 Ion Ratio Lower Upper
 101 100
 103 26.4 51.9 77.9#



#13
 Ethanol
 Concen: 0.365 ppbv
 RT: 3.56 min Scan# 240
 Delta R.T. -0.01 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

Tgt Ion: 45 Resp: 7258
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.3 57.3#

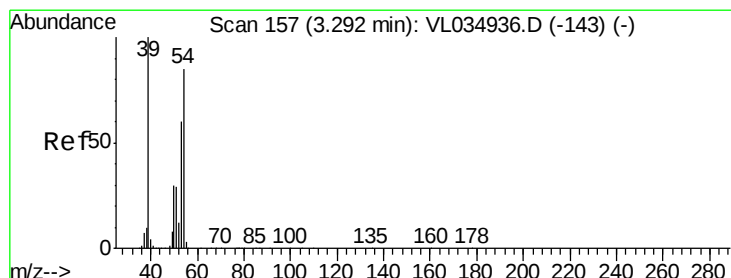
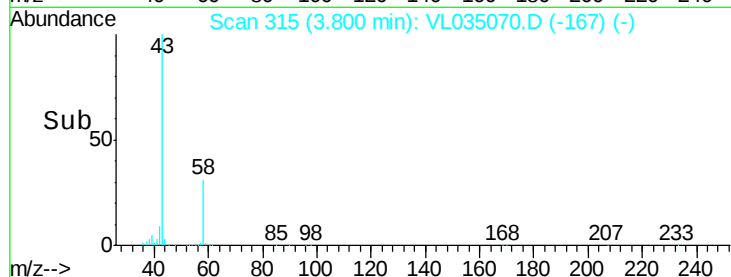
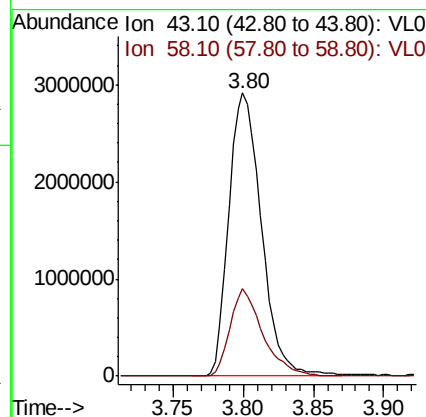
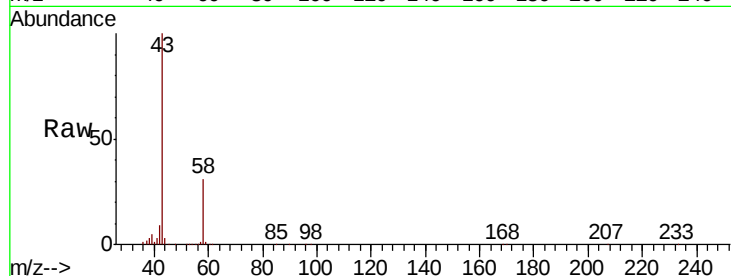




#15
Acetone
Concen: 29.310 ppbv
RT: 3.80 min Scan# 315
Delta R.T. -0.02 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

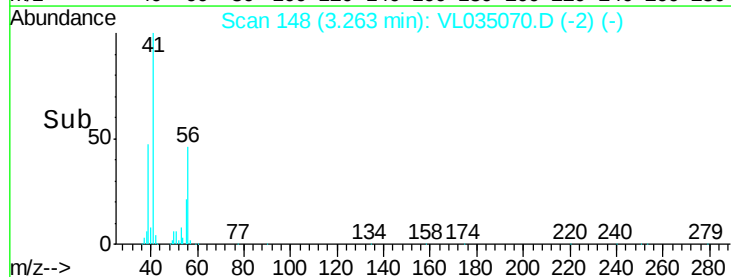
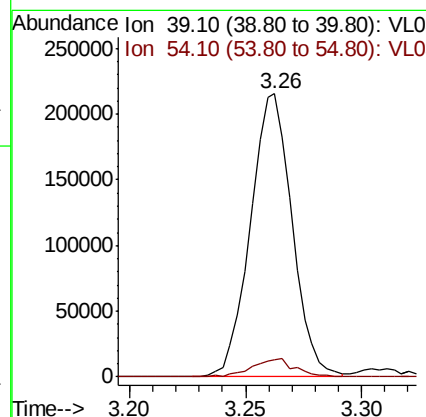
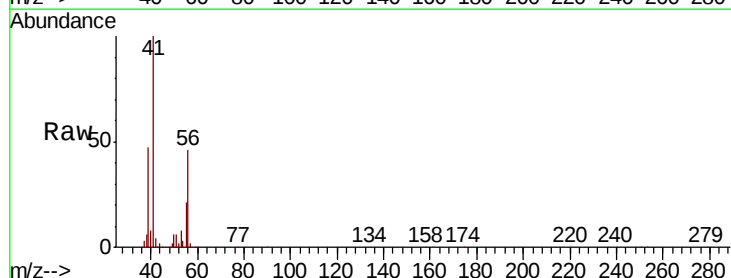
Instrument :
MSVOA_L
ClientSampleId :

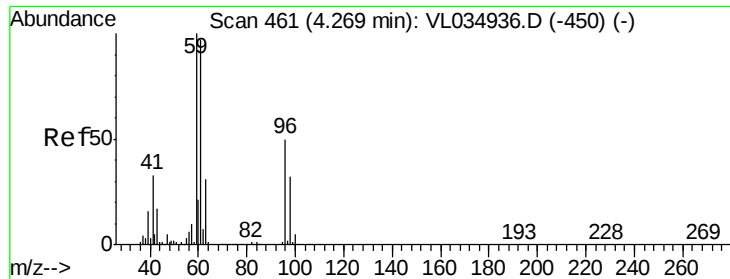
Tot Ion: 43 Resp: 4711002
Ion Ratio Lower Upper
43 100
58 31.5 21.7 32.5



#16
1,3-Butadiene
Concen: 3.885 ppbv
RT: 3.26 min Scan# 148
Delta R.T. -0.03 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

Tgt Ion: 39 Resp: 268694
Ion Ratio Lower Upper
39 100
54 6.8 66.6 100.0#



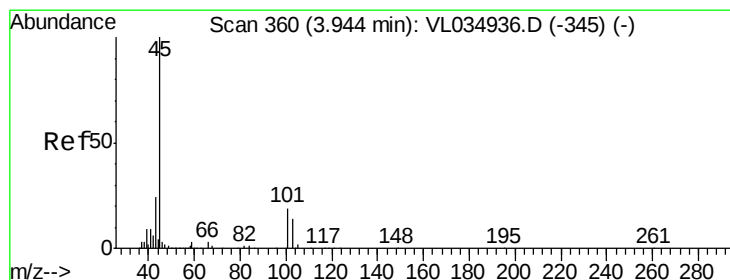
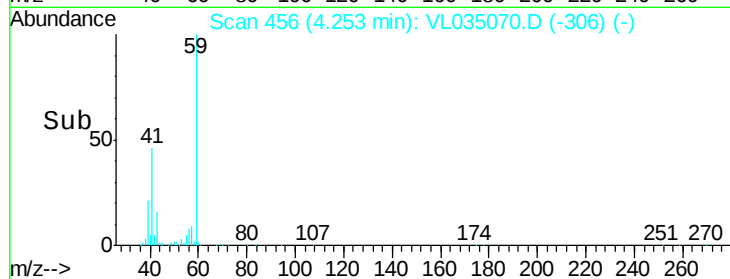
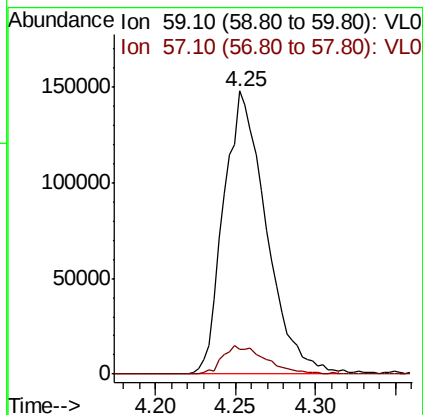
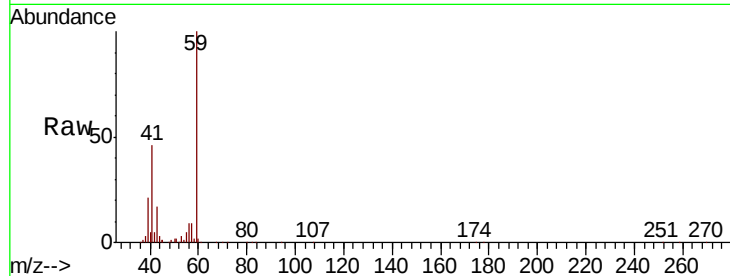


#17

tert-Butyl alcohol
 Concen: 1.884 ppbv
 RT: 4.25 min Scan# 456
 Delta R.T. -0.02 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

Instrument :
 MSVOA_L
 ClientSampleId :

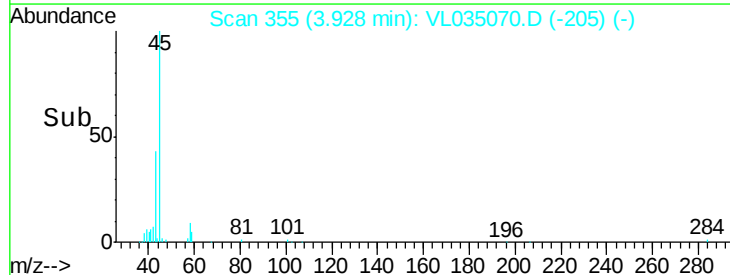
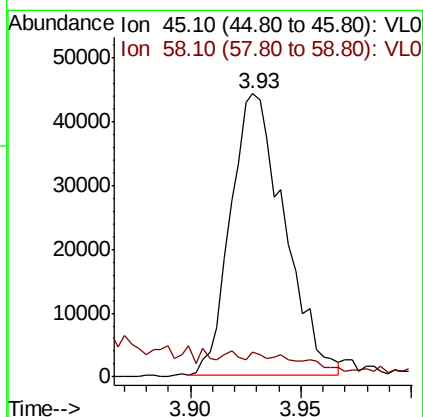
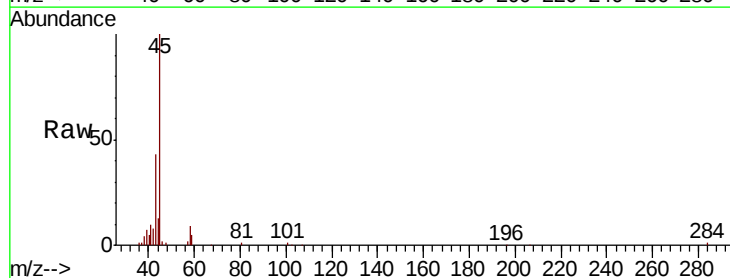
Tot Ion: 59 Resp: 269424
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.7 13.1

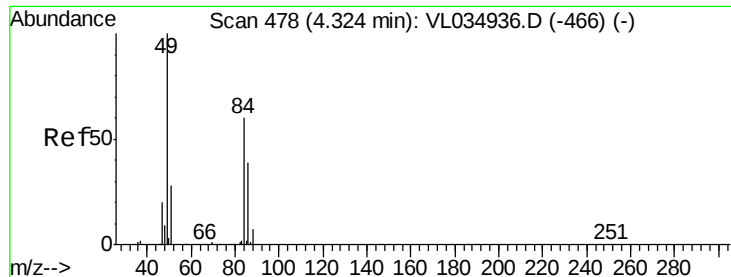


#19

Isopropyl Alcohol
 Concen: 0.690 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.02 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

Tgt Ion: 45 Resp: 73913
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.7 2.5#

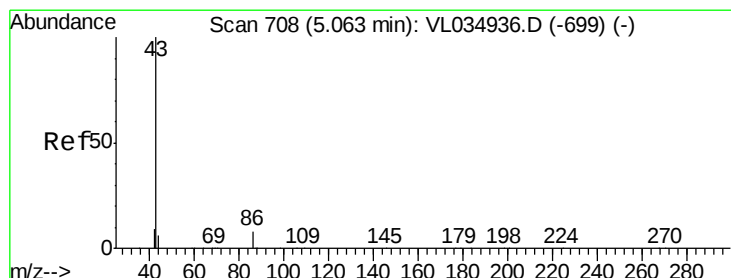
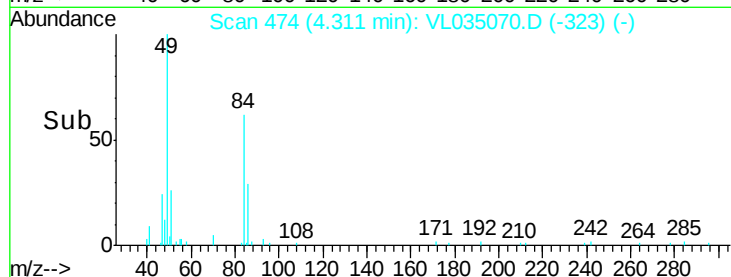
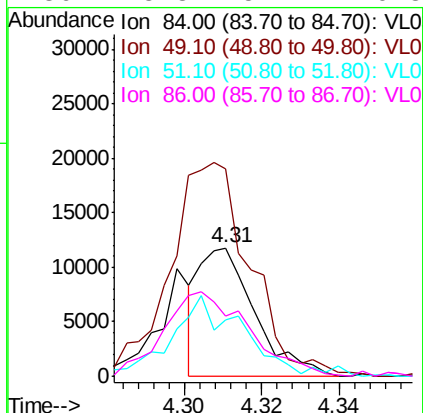
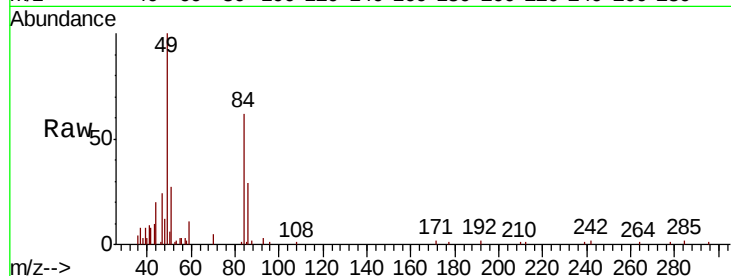




#20
Methylene Chloride
Concen: 0.219 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

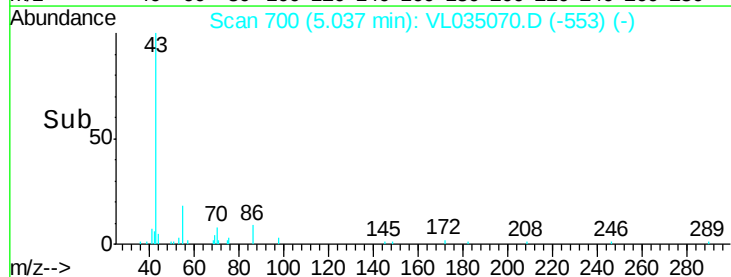
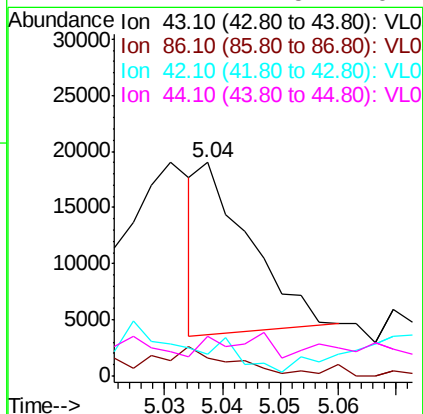
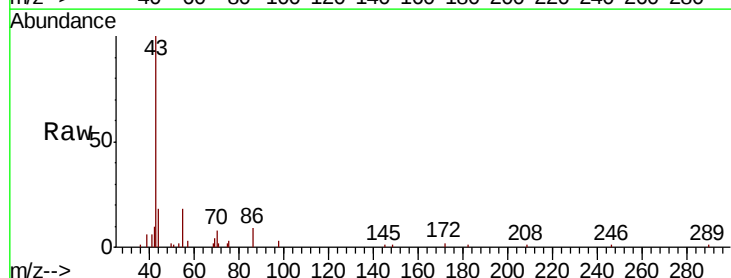
Instrument :
MSVOA_L
ClientSampled :

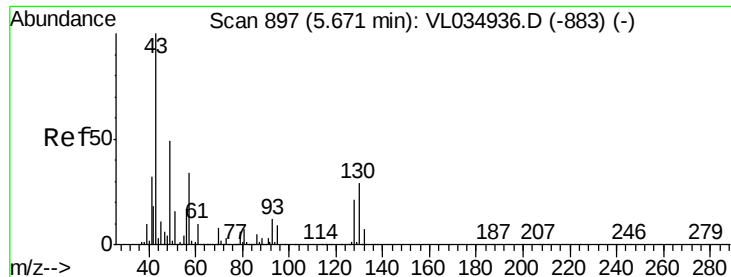
Tot Ion: 84 Resp: 11678
Ion Ratio Lower Upper
84 100
49 158.1 132.5 198.7
51 35.9 38.4 57.6#
86 45.8 51.2 76.8#



#23
Vinyl Acetate
Concen: 0.045 ppbv
RT: 5.04 min Scan# 700
Delta R.T. -0.03 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

Tgt Ion: 43 Resp: 9252
Ion Ratio Lower Upper
43 100
86 4.6 5.5 8.3#
42 0.5 8.0 12.0#
44 12.4 4.5 6.7#

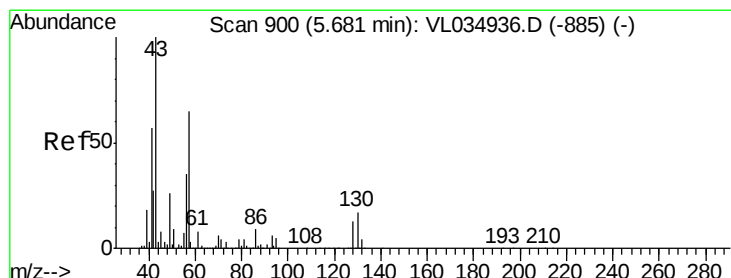
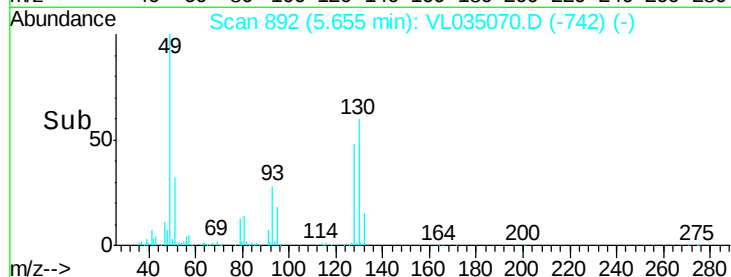
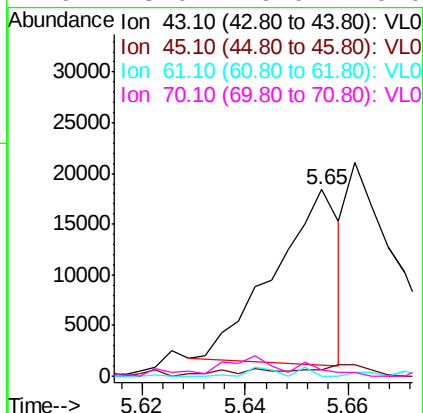
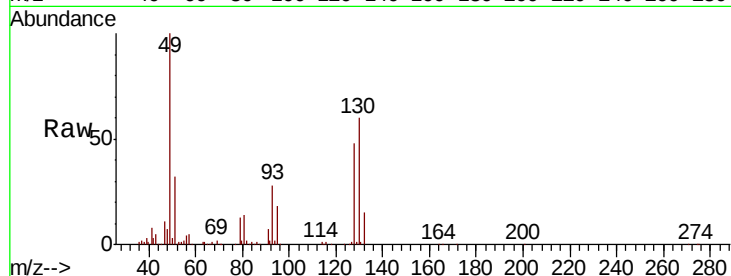




#25
Ethyl Acetate
Concen: 0.056 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

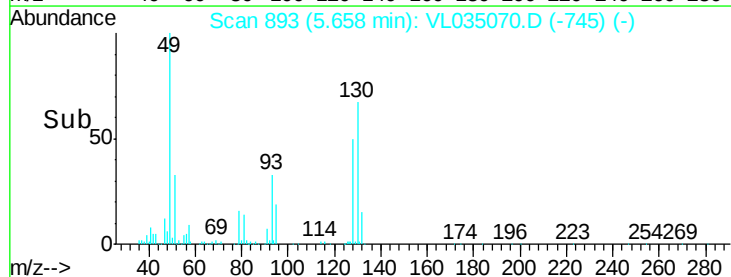
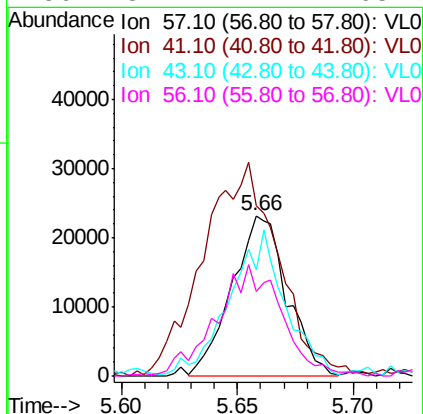
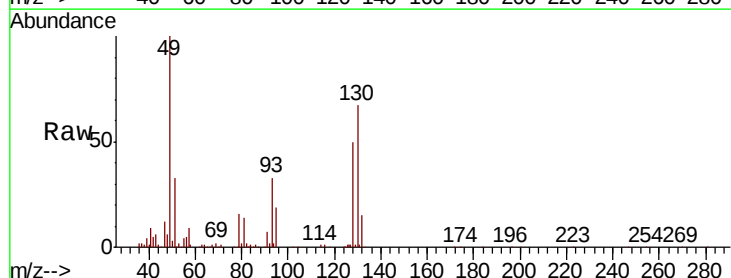
Instrument :
MSVOA_L
ClientSampleId :

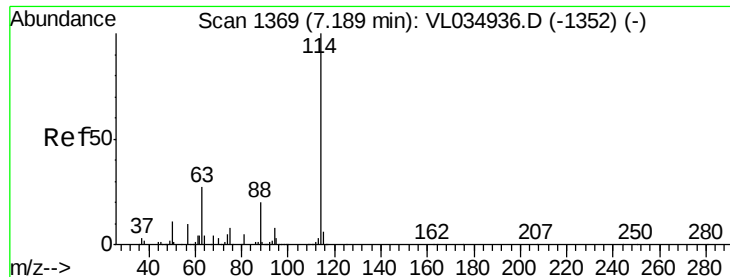
Tot Ion:	43	Resp:	15168
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	5.0	7.8	11.8#
70	15.0	6.0	9.0#



#26
Hexane
Concen: 0.327 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

Tgt Ion:	57	Resp:	38301
Ion	Ratio	Lower	Upper
57	100		
41	183.3	72.7	109.1#
43	93.9	182.1	273.1#
56	82.4	42.2	63.2#



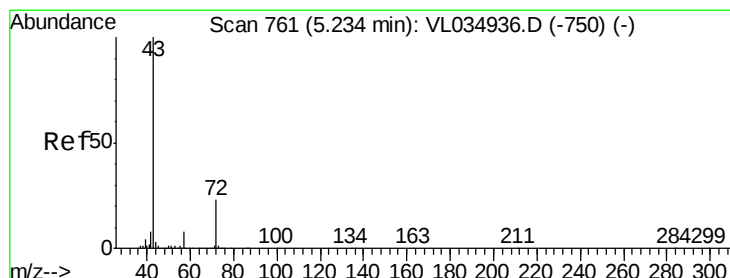
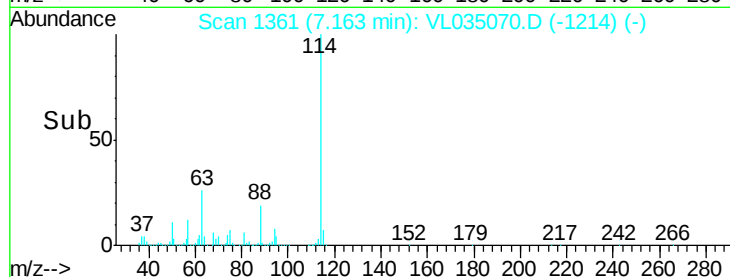
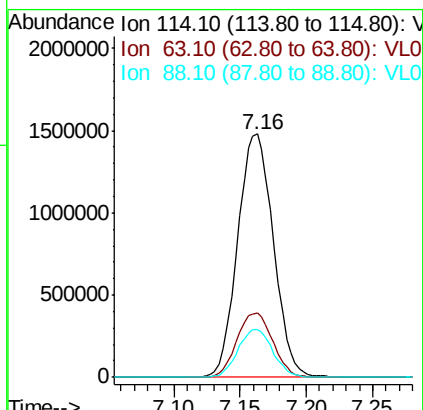
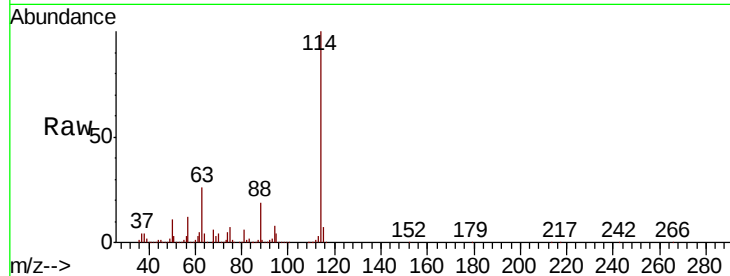


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2772265

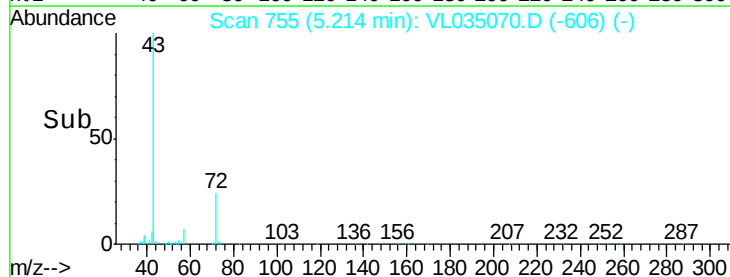
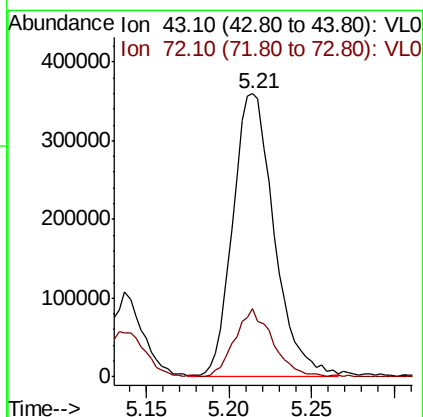
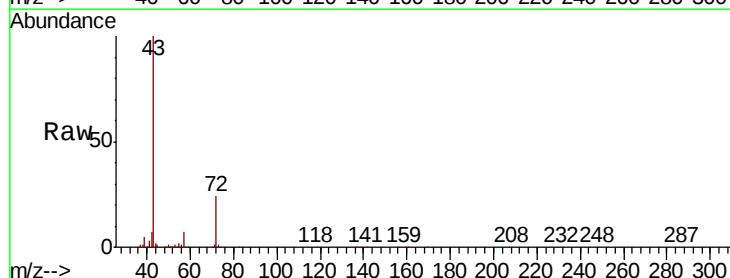
Ion	Ratio	Lower	Upper
114	100		
63	26.8	22.2	33.4
88	19.3	15.5	23.3

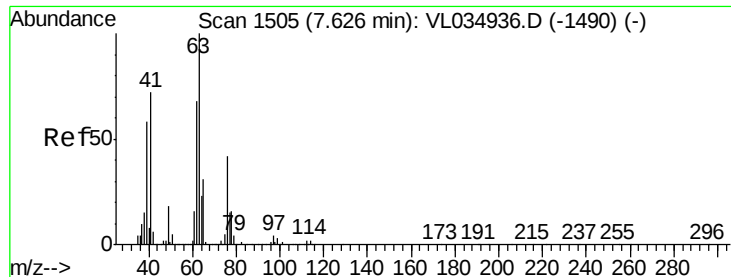


#34
 2-Butanone
 Concen: 3.596 ppbv
 RT: 5.21 min Scan# 755
 Delta R.T. -0.02 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

Tgt Ion: 43 Resp: 619597

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.0	27.0

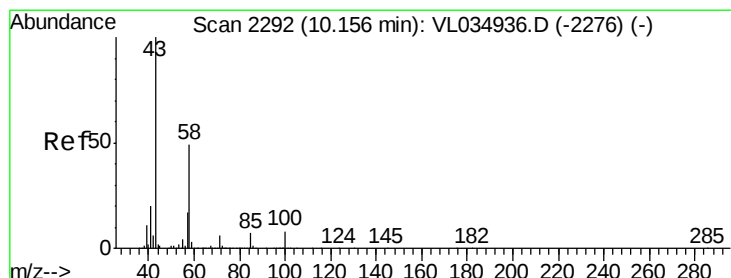
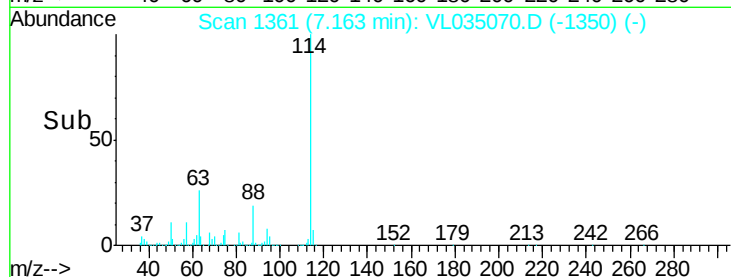
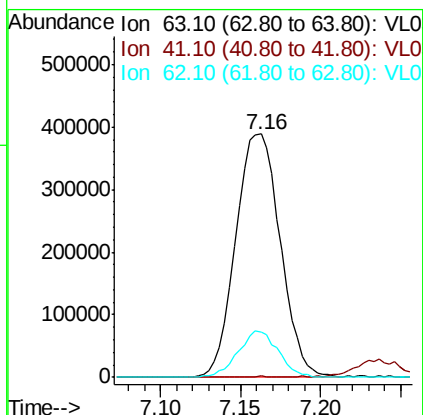
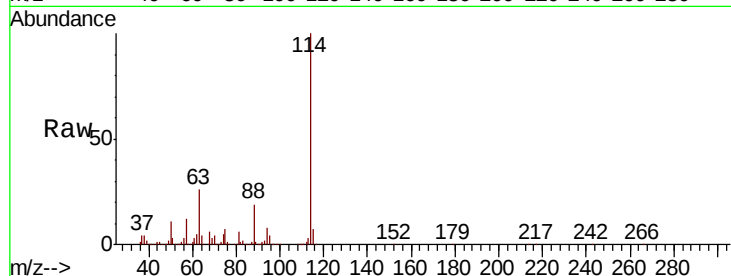




#39
 1,2-Dichloropropane
 Concen: 8.042 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

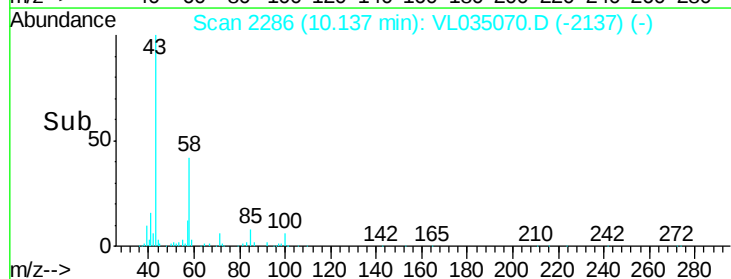
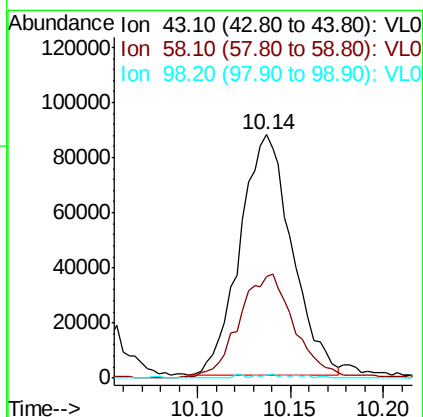
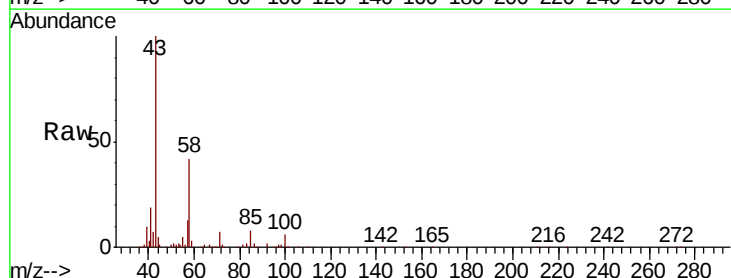
Instrument :
 MSVOA_L
 ClientSampled :

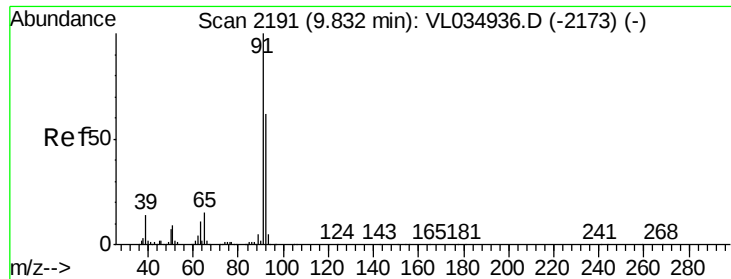
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.3	57.8	86.8#
62	18.4	54.2	81.2#



#51
 2-Hexanone
 Concen: 0.885 ppbv
 RT: 10.14 min Scan# 2286
 Delta R.T. -0.02 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.0	39.1	58.7
98	1.6	0.3	0.5#





#53

Toluene

Concen: 0.524 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035070.D

Acq: 20 May 2020 7:57

Instrument :

MSVOA_L

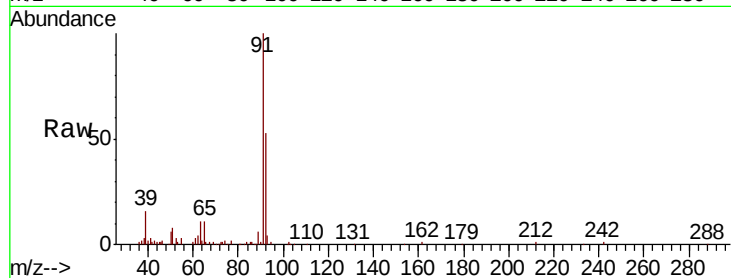
ClientSampleId :

Tot Ion: 91 Resp: 126859

Ion Ratio Lower Upper

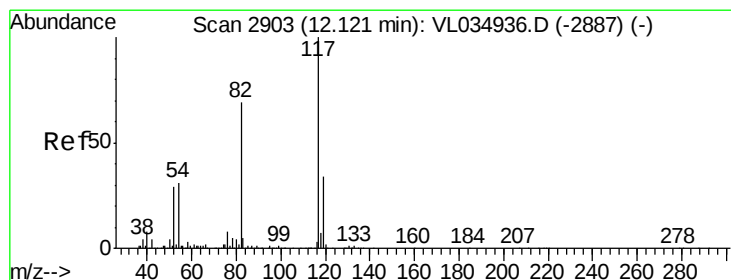
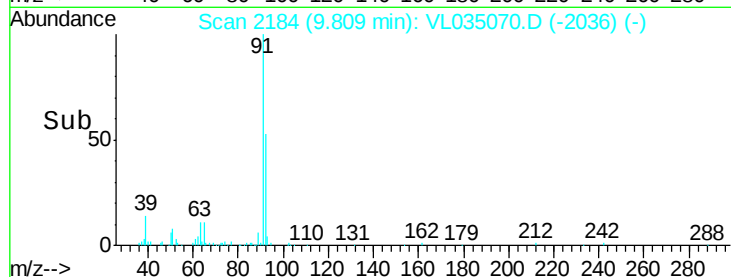
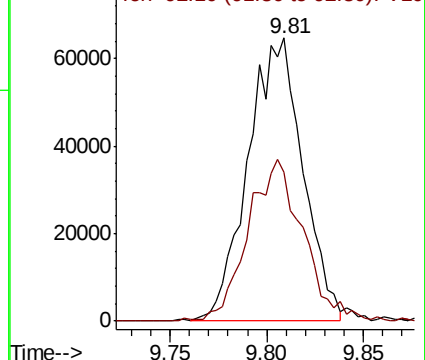
91 100

92 57.8 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.03 min

Lab File: VL035070.D

Acq: 20 May 2020 7:57

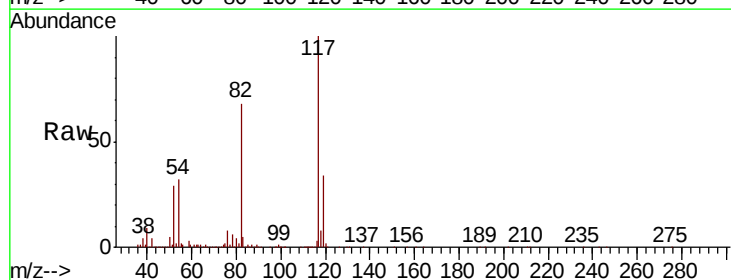
Tgt Ion: 117 Resp: 2685037

Ion Ratio Lower Upper

117 100

82 67.8 53.1 79.7

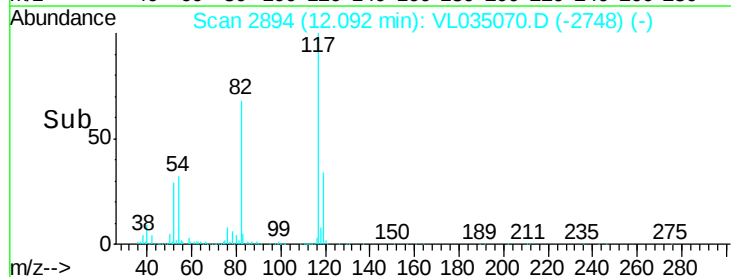
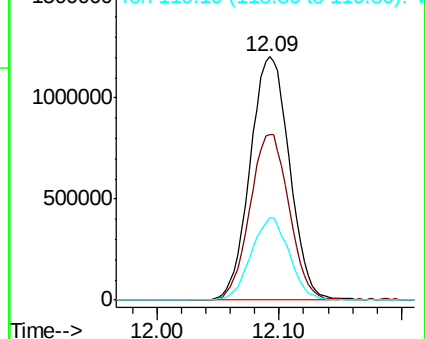
119 33.0 26.7 40.1

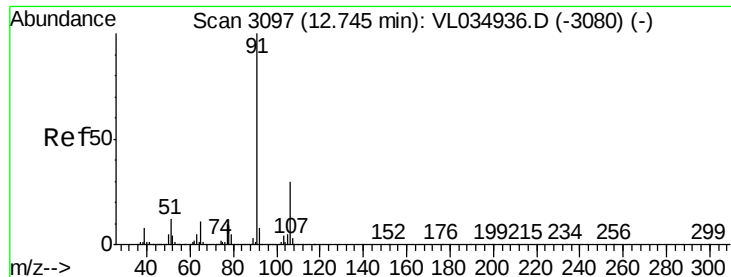


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.095 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. -0.03 min

Lab File: VL035070.D

Acq: 20 May 2020 7:57

Instrument :

MSVOA_L

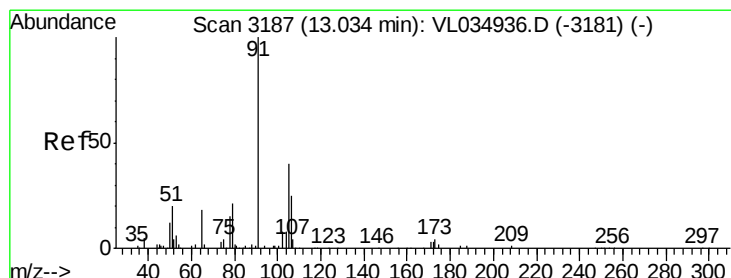
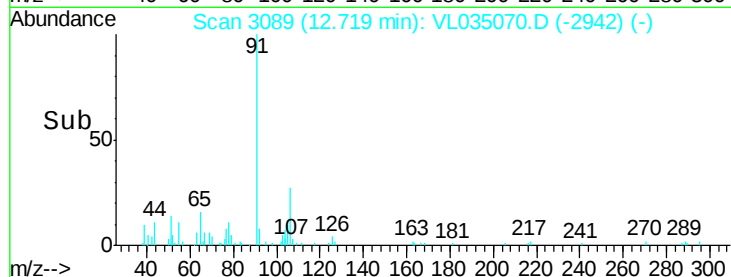
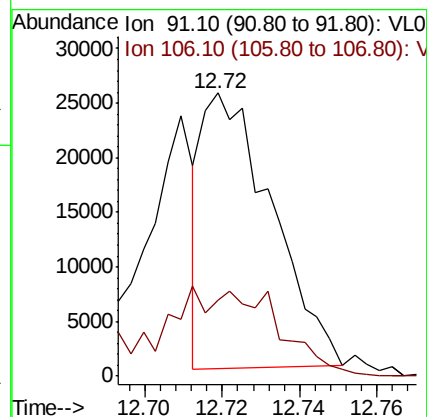
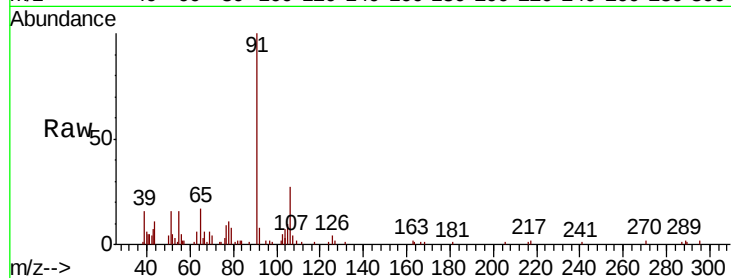
ClientSampleId :

Tot Ion: 91 Resp: 31483

Ion Ratio Lower Upper

91 100

106 25.5 24.2 36.4



#59

m/p-Xylene

Concen: 0.123 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. -0.03 min

Lab File: VL035070.D

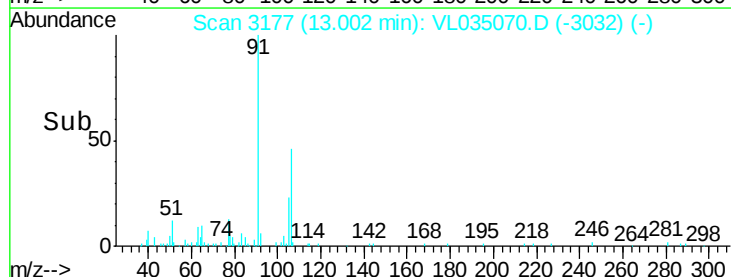
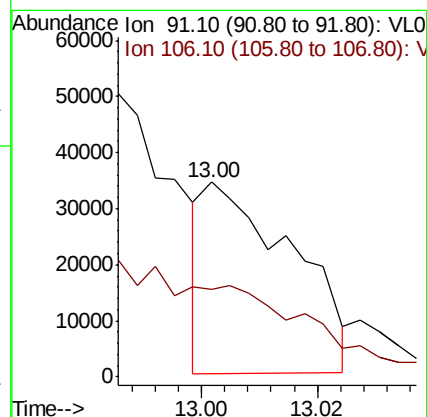
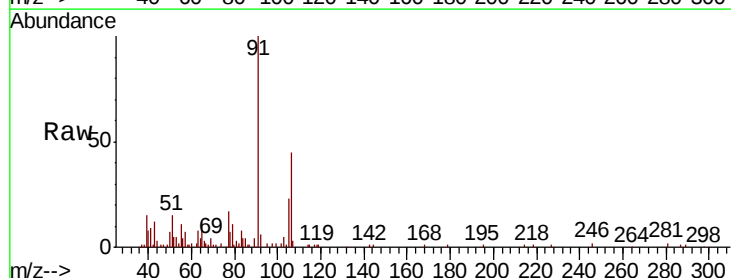
Acq: 20 May 2020 7:57

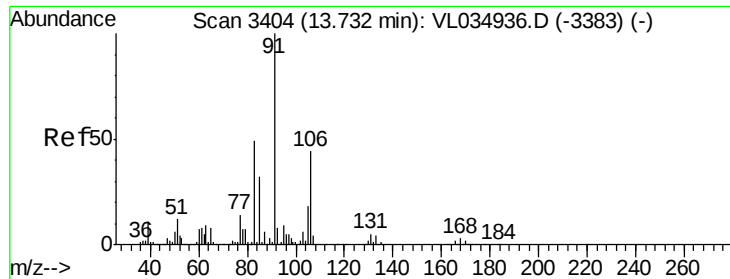
Tgt Ion: 91 Resp: 36009

Ion Ratio Lower Upper

91 100

106 0.0 66.0 99.0#

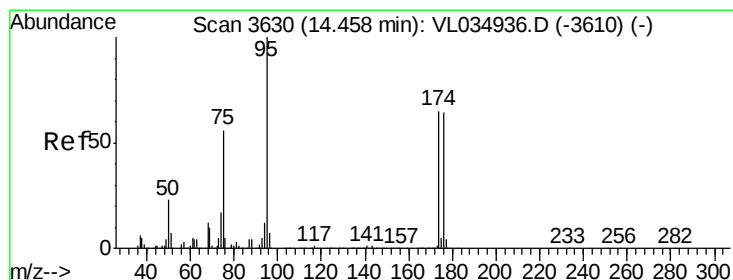
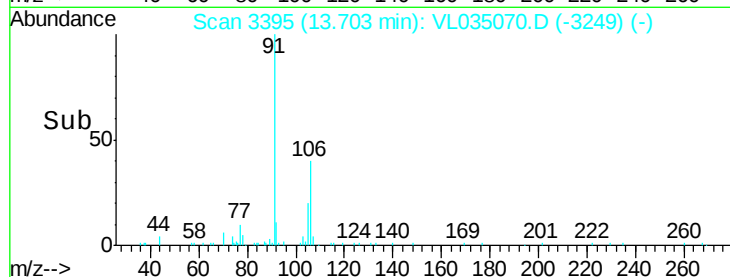
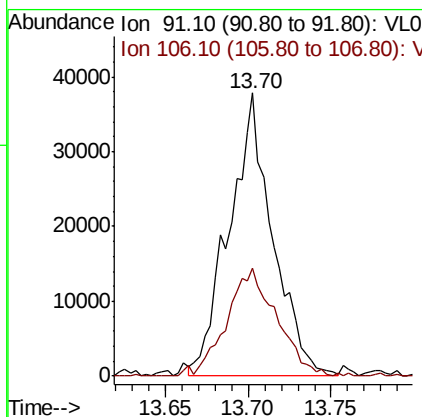
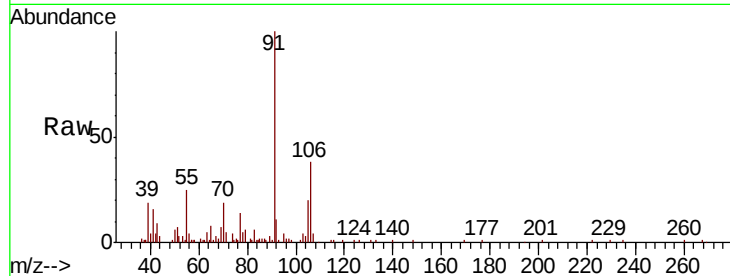




#60
o-Xylene
Concen: 0.239 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.03 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

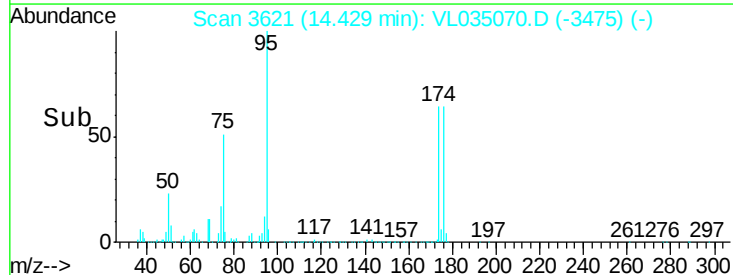
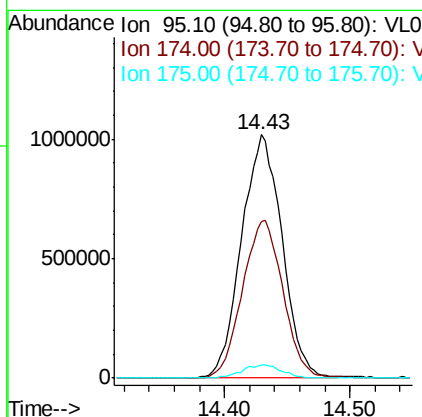
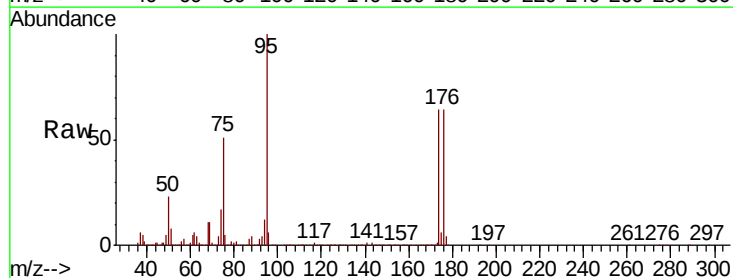
Instrument :
MSVOA_L
ClientSampleId :

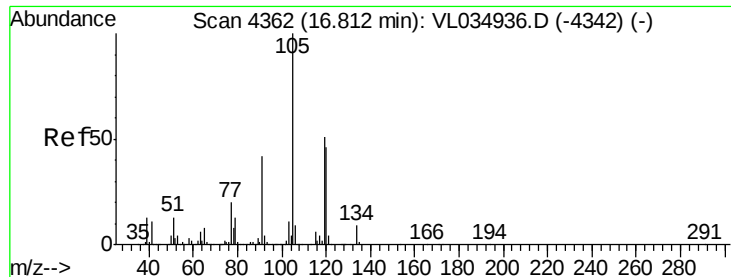
Tot Ion: 91 Resp: 68921
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.541 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.03 min
Lab File: VL035070.D
Acq: 20 May 2020 7:57

Tgt Ion: 95 Resp: 2290997
Ion Ratio Lower Upper
95 100
174 65.1 51.5 77.3
175 5.3 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. -0.04 min
 Lab File: VL035070.D
 Acq: 20 May 2020 7:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	35762
Ion Ratio	Lower	Upper	
105	100		
120	37.0	36.8	55.2
91	19.6	35.4	53.0#
77	11.3	16.2	24.2#

