

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036074.D
 Acq On : 7 Dec 2020 21:07
 Operator : SY/AP
 Sample : L4949-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Quant Time: Dec 08 08:39:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1064793	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2661146	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.12	117	2386430	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2077211	10.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	44267	0.357	ppbv 96
3) Chlorodifluoromethane	3.00	51	60795	0.500	ppbv # 86
4) Chloromethane	3.15	50	30783	0.516	ppbv # 77
9) Propene	3.21	41	362503	5.956	ppbv 93
10) Heptane	8.15	43	938349	6.037	ppbv 98
11) Trichlorofluoromethane	3.96	101	53309	0.365	ppbv 95
13) Ethanol	3.65	45	1075618	128.208	ppbv 84
15) Acetone	3.86	43	17472833	136.537	ppbv # 86
16) 1,3-Butadiene	3.31	39	127121	1.972	ppbv # 58
17) tert-Butyl alcohol	4.01	59	274279	2.213	ppbv 99
19) Isopropyl Alcohol	4.01	45	8297832	106.087	ppbv # 100
20) Methylene Chloride	4.37	84	398198	7.593	ppbv 96
21) Allyl Chloride	4.38	41	113927	1.339	ppbv # 86
23) Vinyl Acetate	5.12	43	679547	3.988	ppbv # 37
25) Ethyl Acetate	5.70	43	14437599	56.472	ppbv # 80
26) Hexane	5.71	57	751410	6.531	ppbv # 1
27) Carbon Disulfide	4.57	76	18571	0.162	ppbv # 66
30) Cyclohexane	7.15	84	219301	2.595	ppbv 91
31) cis-1,2-Dichloroethene	5.70	61	2170885	20.755	ppbv # 27
34) 2-Butanone	5.28	43	6528813	36.986	ppbv 98
36) Benzene	6.92	78	570783	2.531	ppbv 99
38) Trichloroethene	7.87	130	5585	0.066	ppbv # 52
39) 1,2-Dichloropropane	7.21	63	746823	8.385	ppbv # 24
41) Tetrahydrofuran	6.07	42	2080720	19.841	ppbv 100
42) Bromodichloromethane	7.83	83	7822	0.045	ppbv # 32
43) Methyl Methacrylate	8.05	69	15321	0.158	ppbv # 1
44) 2,2,4-Trimethylpentane	7.89	57	2351539	5.757	ppbv # 88
50) 4-Methyl-2-Pentanone	8.77	43	1440186	5.471	ppbv 100
51) 2-Hexanone	10.14	43	528737	2.569	ppbv # 30
52) Tetrachloroethene	11.25	164	48045	0.588	ppbv 90
53) Toluene	9.86	91	27121670	107.097	ppbv # 70
57) Chlorobenzene	12.18	112	17446	0.104	ppbv # 37
58) Ethyl Benzene	12.74	91	3729048	11.402	ppbv 97
59) m/p-Xylene	13.00	91	9135032	33.163	ppbv 92
60) o-Xylene	13.73	91	3198898	12.326	ppbv 99
61) Styrene	13.56	104	1235078	7.412	ppbv 99
62) Isopropylbenzene	14.70	105	228174	0.593	ppbv 97
63) 1,1,2,2-Tetrachloroethane	13.69	83	37649	0.215	ppbv # 79
64) n-propylbenzene	15.59	120	165003	1.783	ppbv 87
65) tert-Butylbenzene	16.79	119	125565	0.399	ppbv # 67
67) sec-Butylbenzene	17.32	105	71818	0.163	ppbv 94

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 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

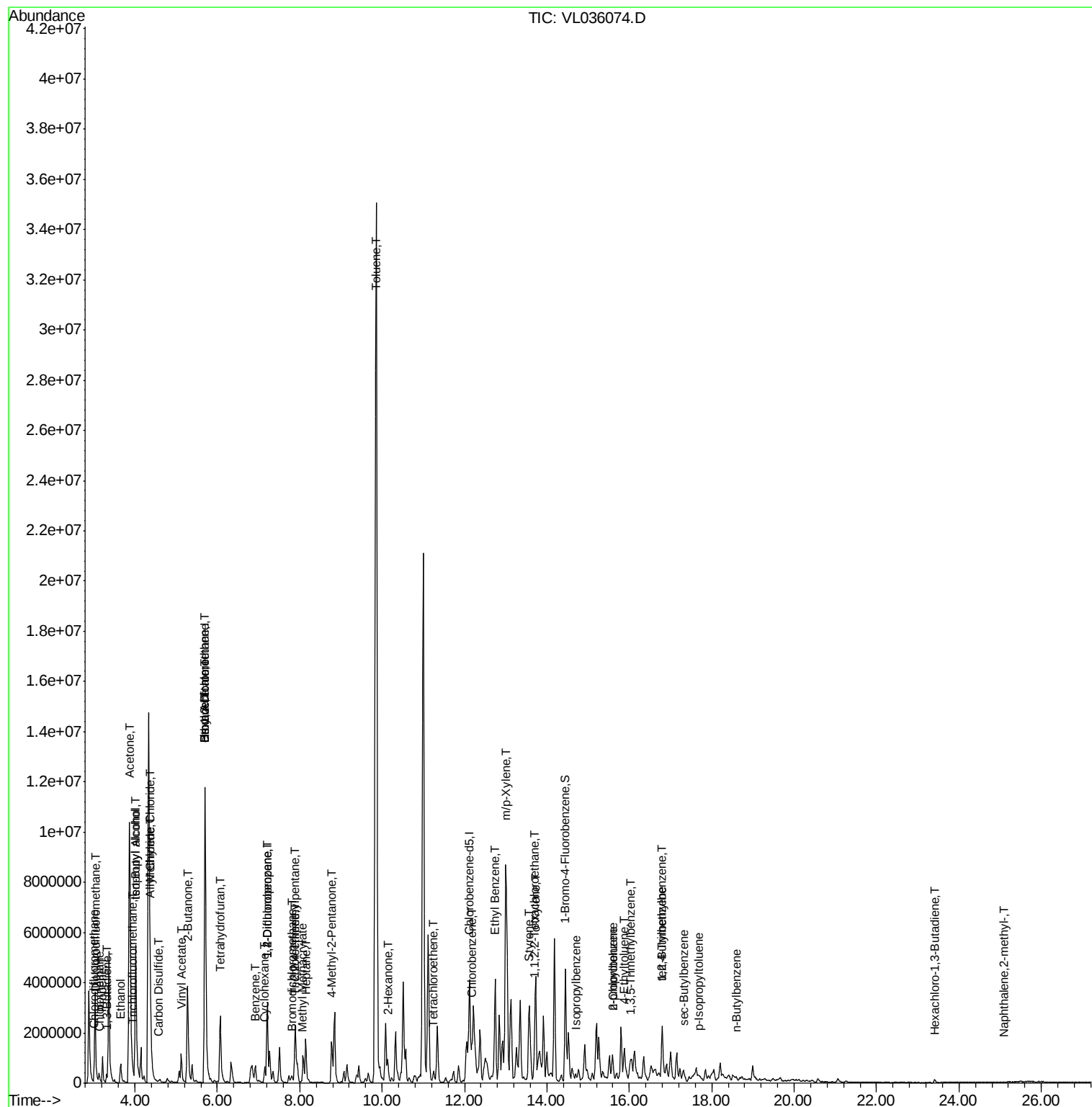
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.68	119	27624	0.079	ppbv #	74
70) n-Butylbenzene	18.59	91	18759	0.054	ppbv #	1
71) 2-Chlorotoluene	15.59	91	837913	2.881	ppbv #	47
72) 4-Ethyltoluene	15.87	105	791845	2.817	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	493095	1.836	ppbv	94
74) 1,2,4-Trimethylbenzene	16.79	105	1168248	4.335	ppbv #	65
78) Hexachloro-1,3-Butadiene	23.42	225	4355	0.042	ppbv #	18
80) Naphthalene,2-methyl-	25.09	142	1871	0.061	ppbv #	87

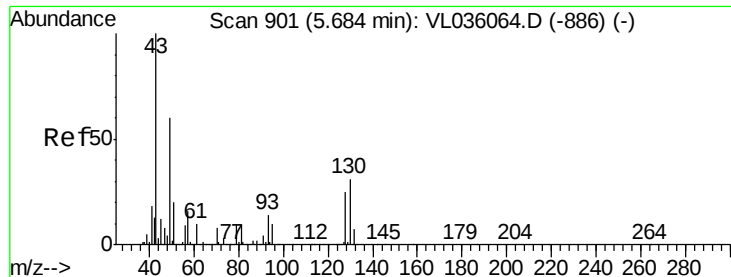
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

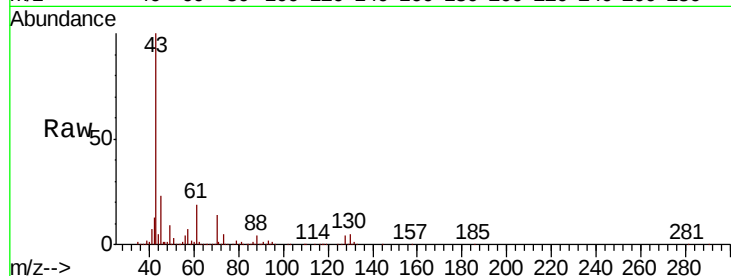
MSVOA_L

ClientSampleId :

IA-3

Tot Ion: 49 Resp: 1064793

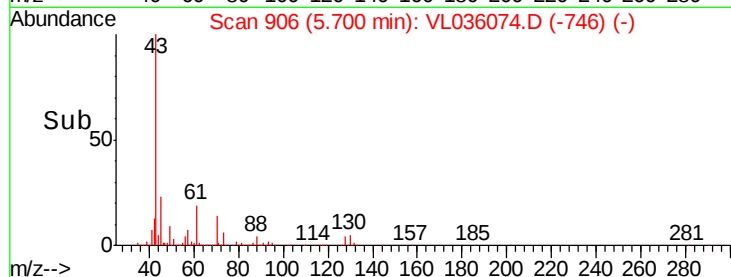
Ion	Ratio	Lower	Upper
49	100		
128	40.1	21.1	63.1
130	51.6	27.1	81.3



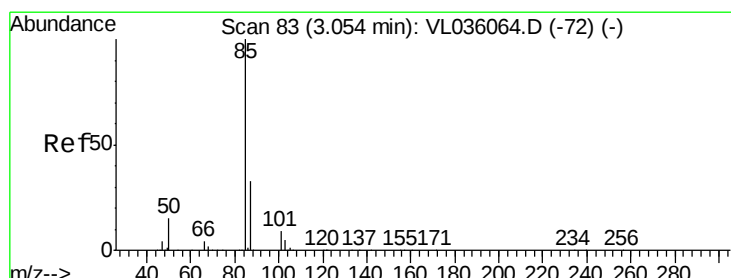
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.357 ppbv

RT: 3.05 min Scan# 83

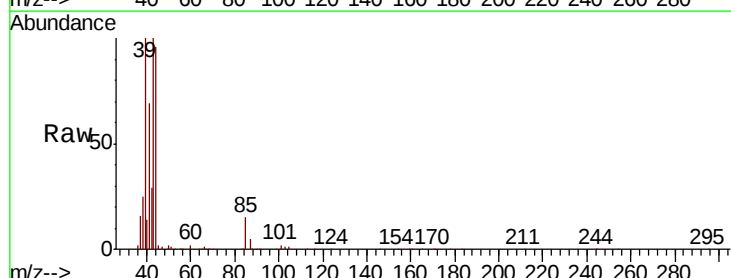
Delta R.T. -0.00 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

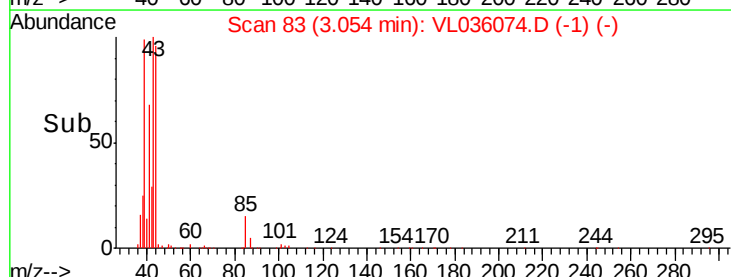
Tgt Ion: 85 Resp: 44267

Ion	Ratio	Lower	Upper
85	100		
87	30.9	26.5	39.7

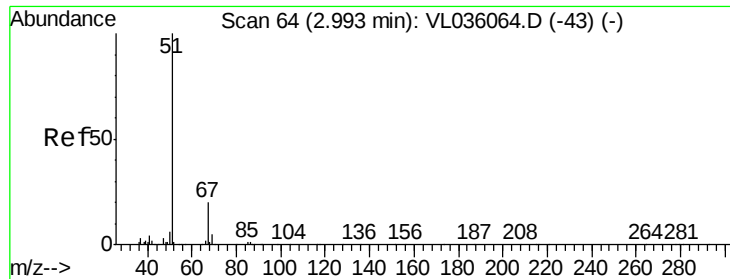


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.500 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

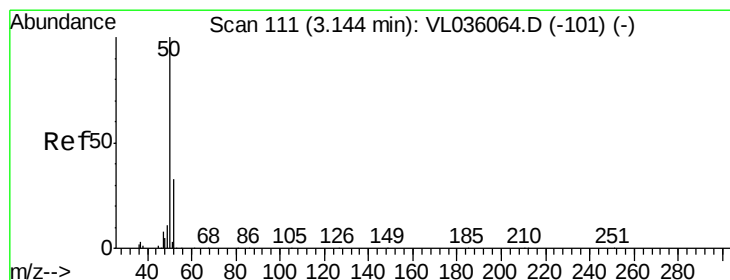
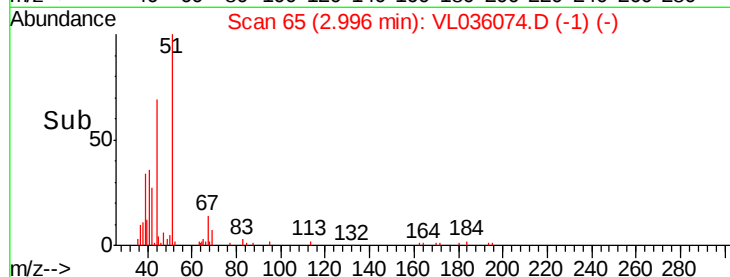
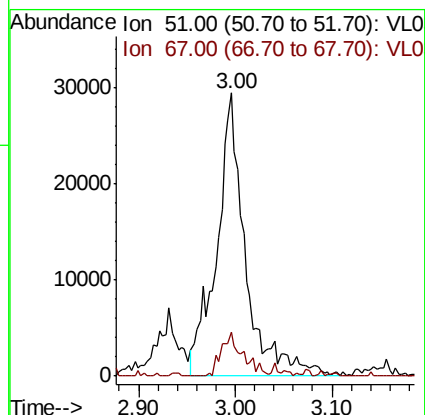
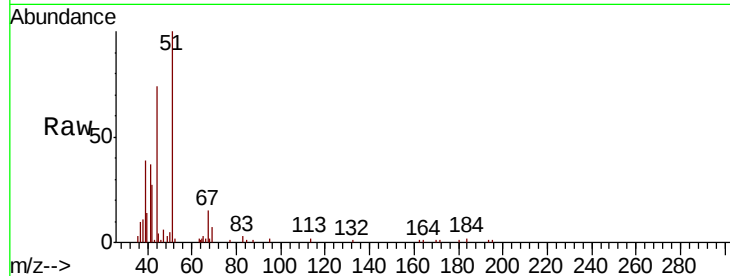
IA-3

Tot Ion: 51 Resp: 60795

Ion Ratio Lower Upper

51 100

67 11.5 14.3 21.5#



#4

Chloromethane

Concen: 0.516 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036074.D

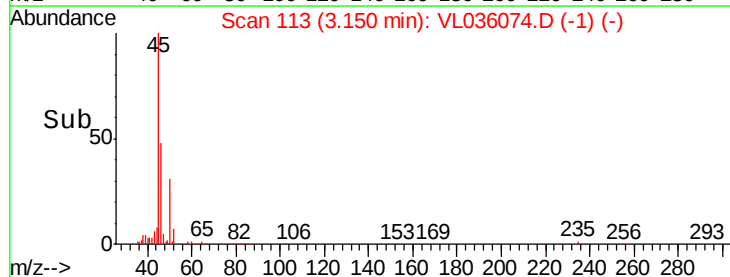
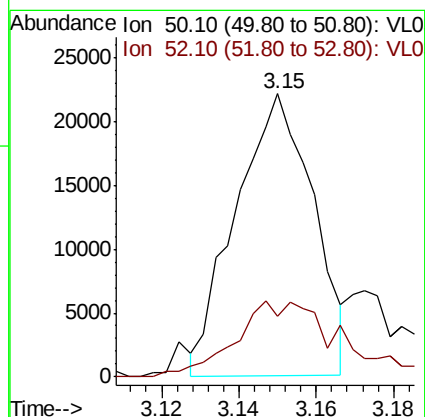
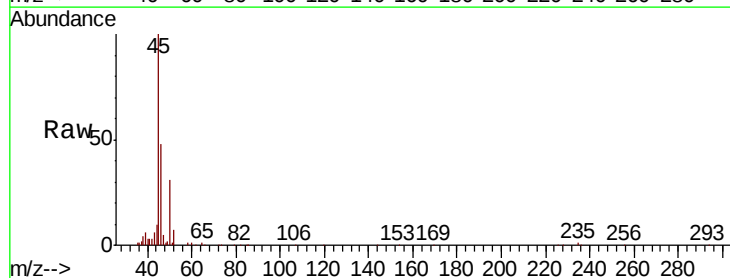
Acq: 7 Dec 2020 21:07

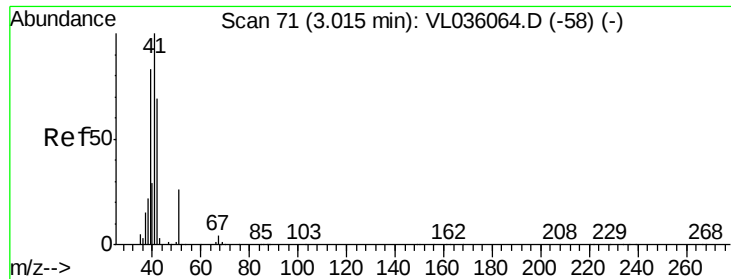
Tgt Ion: 50 Resp: 30783

Ion Ratio Lower Upper

50 100

52 19.4 26.1 39.1#





#9

Propene

Concen: 5.956 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.20 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

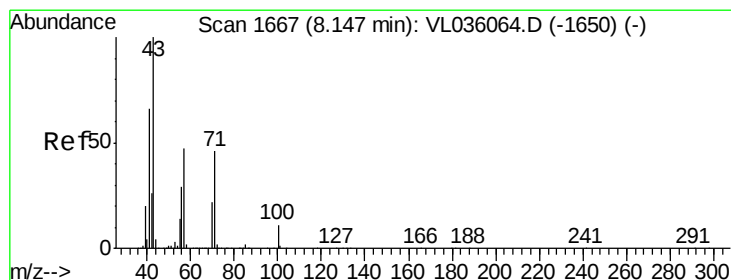
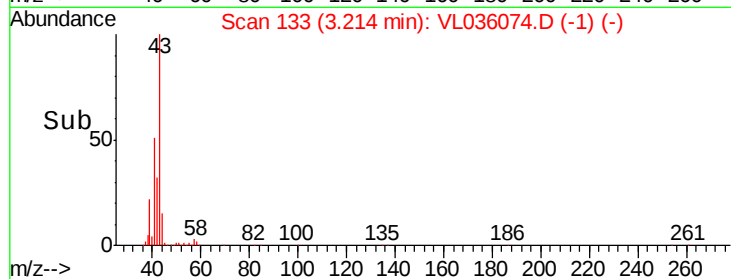
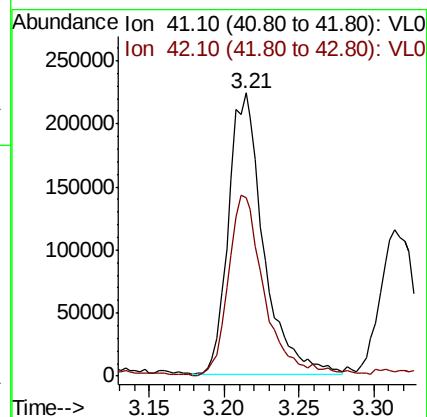
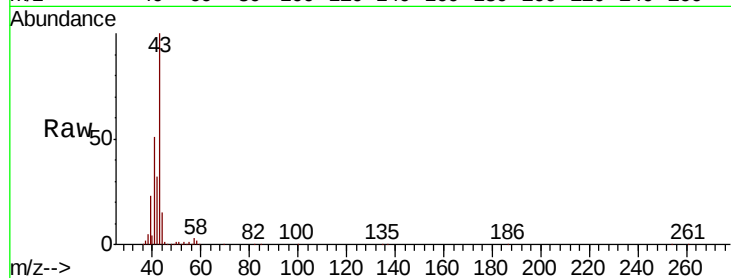
IA-3

Tot Ion: 41 Resp: 362503

Ion Ratio Lower Upper

41 100

42 65.2 57.0 85.6



#10

Heptane

Concen: 6.037 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. -0.00 min

Lab File: VL036074.D

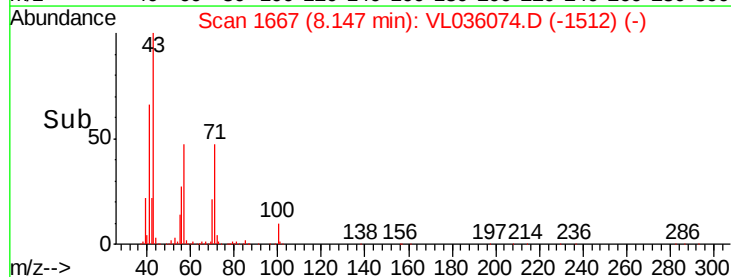
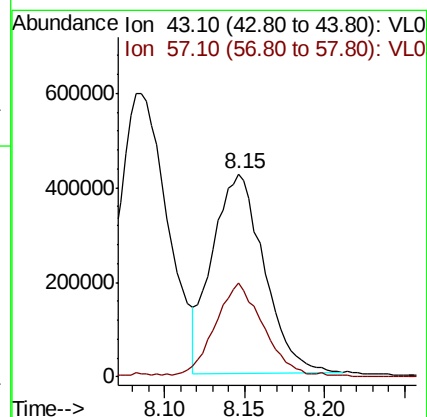
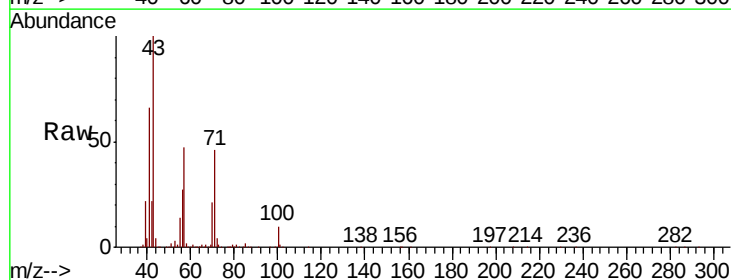
Acq: 7 Dec 2020 21:07

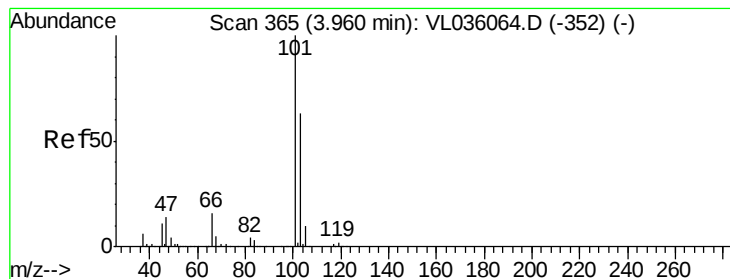
Tgt Ion: 43 Resp: 938349

Ion Ratio Lower Upper

43 100

57 45.9 37.9 56.9





#11

Trichlorofluoromethane

Concen: 0.365 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

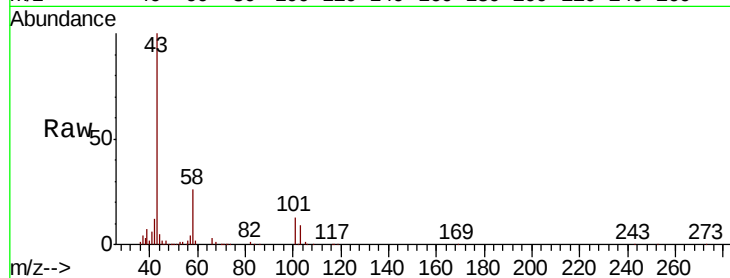
IA-3

Tot Ion:101 Resp: 53309

Ion Ratio Lower Upper

101 100

103 66.5 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.96

30000

25000

20000

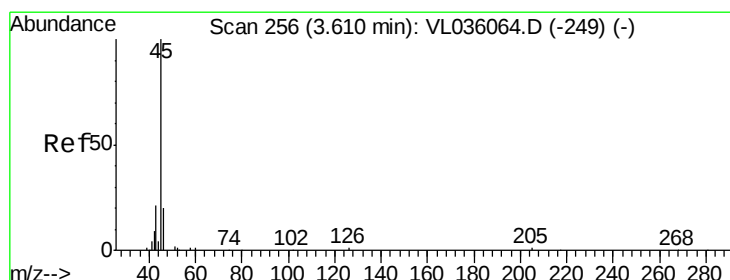
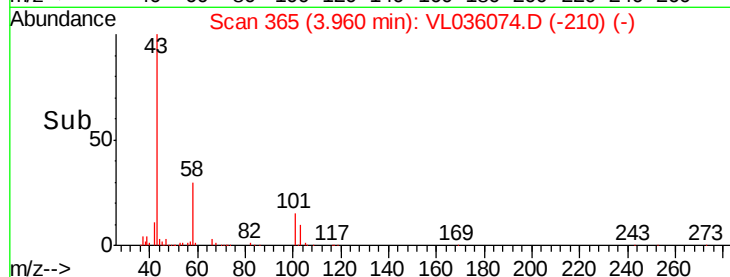
15000

10000

5000

0

Time-->



#13

Ethanol

Concen: 128.208 ppbv

RT: 3.65 min Scan# 270

Delta R.T. 0.04 min

Lab File: VL036074.D

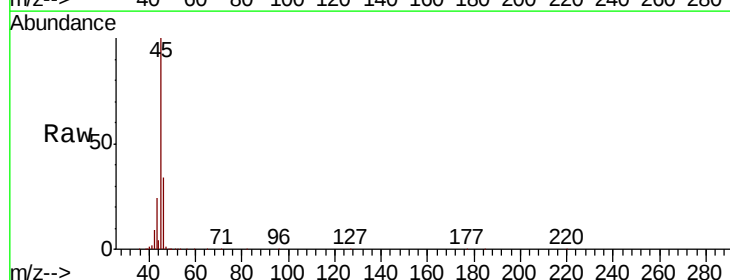
Acq: 7 Dec 2020 21:07

Tgt Ion: 45 Resp: 1075618

Ion Ratio Lower Upper

45 100

46 36.4 19.0 75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

500000

400000

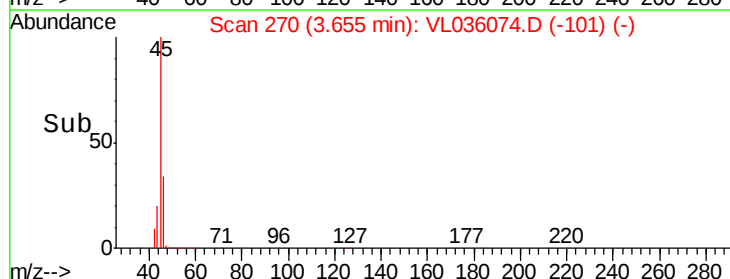
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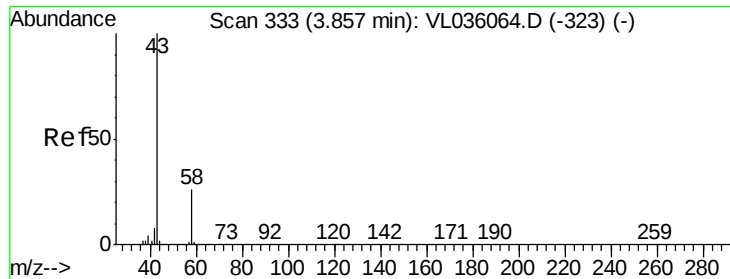
200000

100000

0

Time-->





#15

Acetone

Concen: 136.537 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

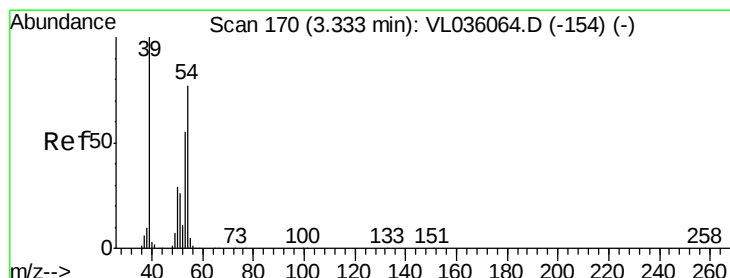
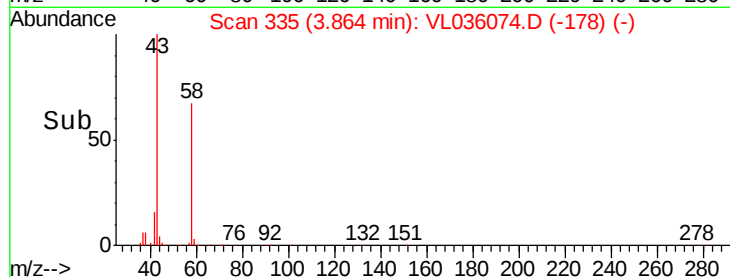
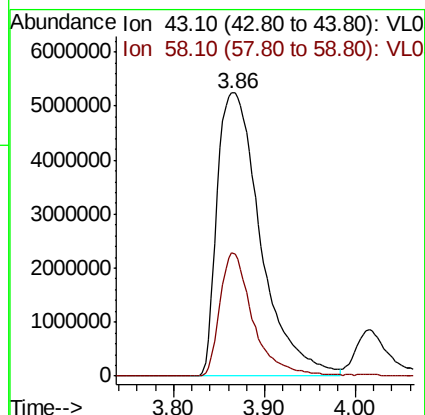
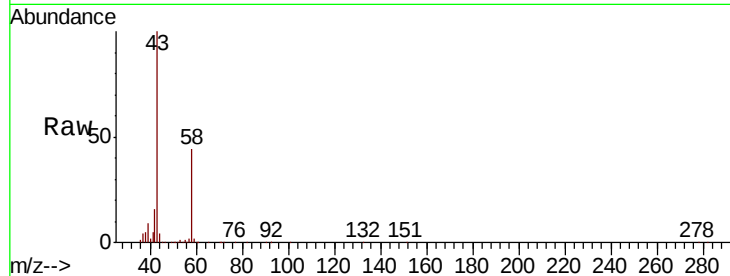
IA-3

Tot Ion: 43 Resp:17472833

Ion Ratio Lower Upper

43 100

58 33.2 20.9 31.3#



#16

1,3-Butadiene

Concen: 1.972 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.02 min

Lab File: VL036074.D

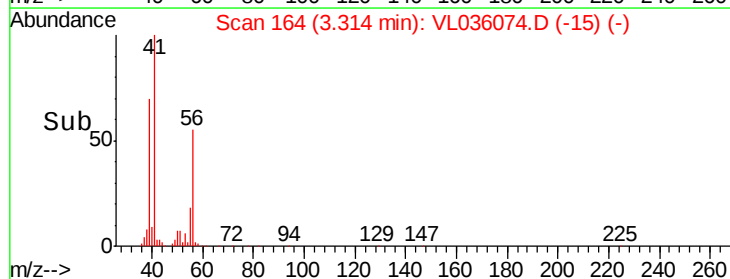
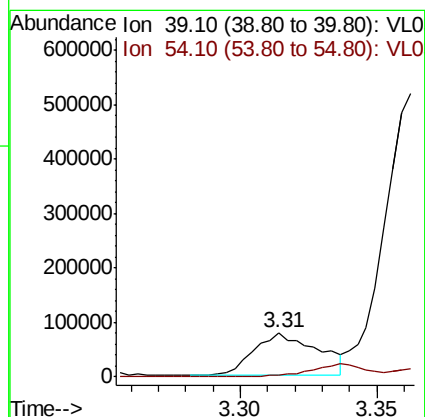
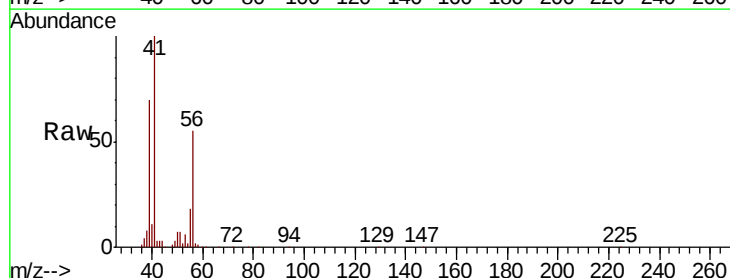
Acq: 7 Dec 2020 21:07

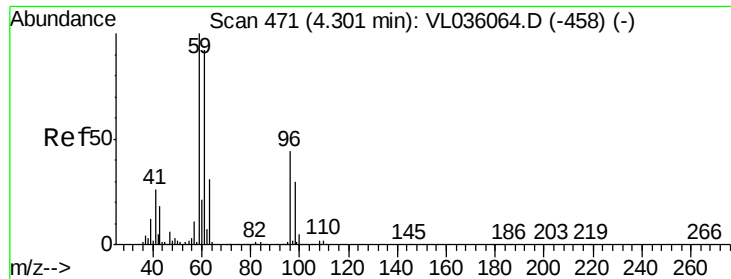
Tgt Ion: 39 Resp: 127121

Ion Ratio Lower Upper

39 100

54 41.6 62.1 93.1#

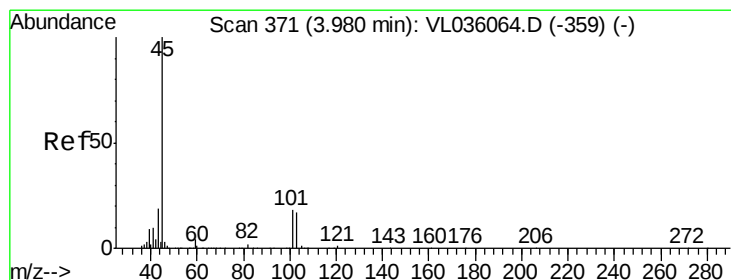
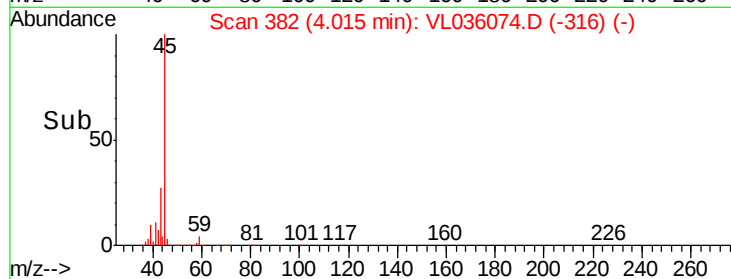
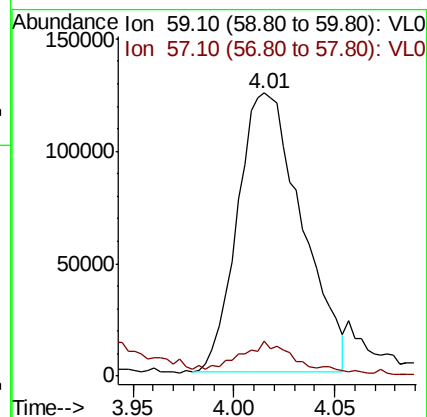
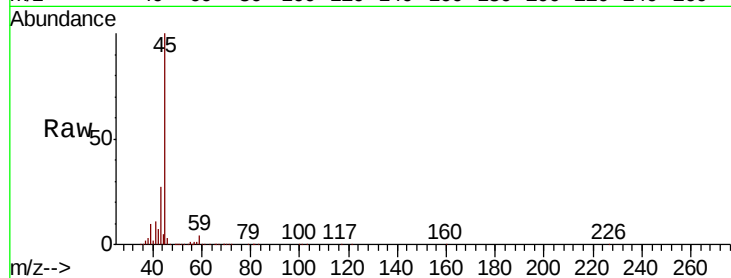




#17
tert-Butyl alcohol
Concen: 2.213 ppbv
RT: 4.01 min Scan# 382
Delta R.T. -0.29 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

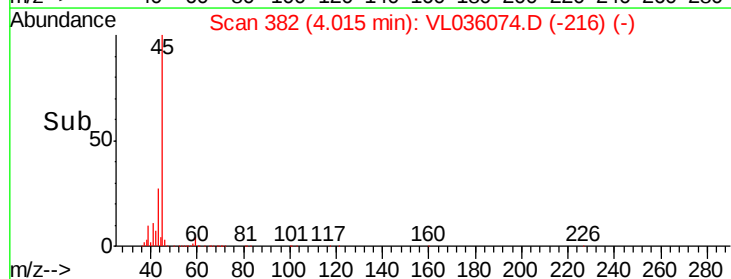
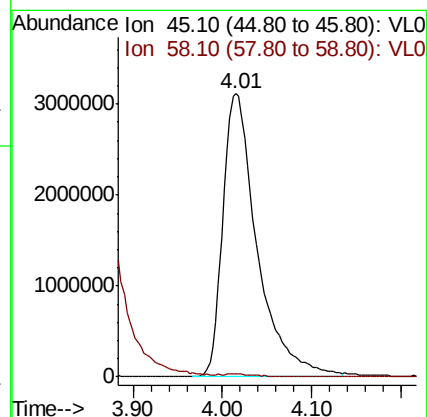
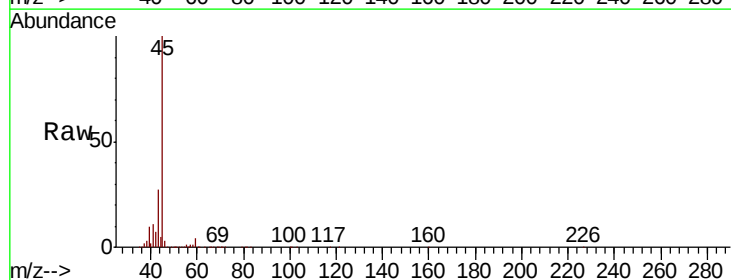
Instrument :
MSVOA_L
ClientSampled :
IA-3

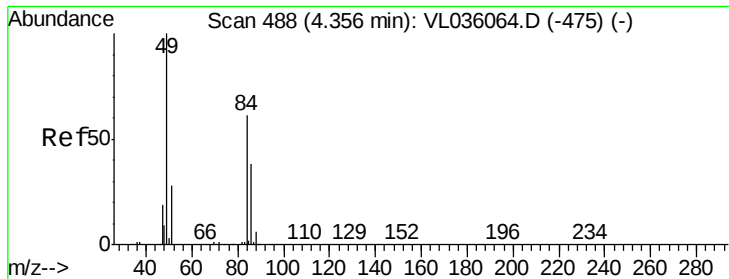
Tot Ion: 59 Resp: 274279
Ion Ratio Lower Upper
59 100
57 11.4 8.7 13.1



#19
Isopropyl Alcohol
Concen: 106.087 ppbv
RT: 4.01 min Scan# 382
Delta R.T. 0.04 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion: 45 Resp: 8297832
Ion Ratio Lower Upper
45 100
58 70.0 0.0 0.0#

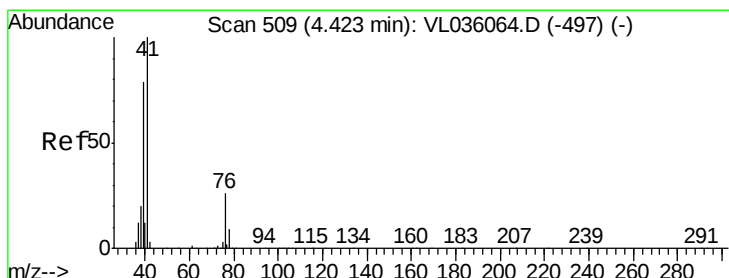
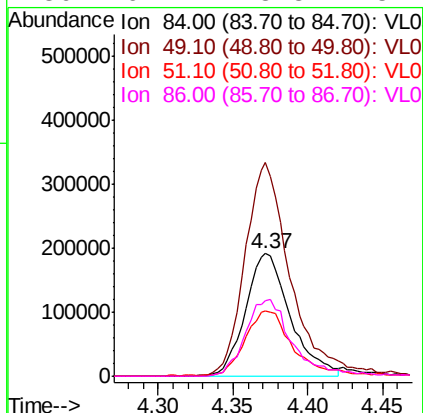
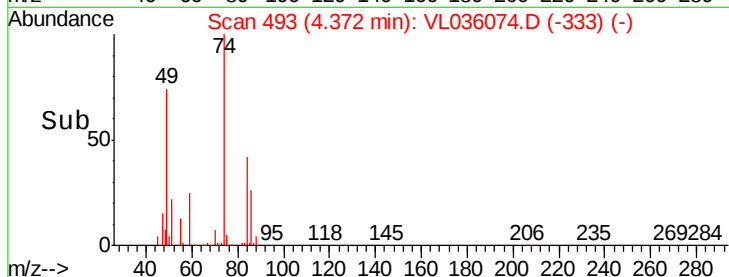
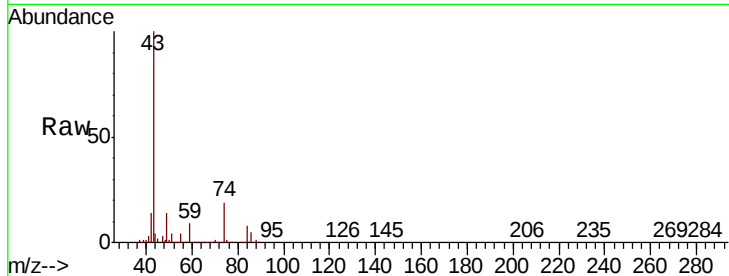




#20
Methylene Chloride
Concen: 7.593 ppbv
RT: 4.37 min Scan# 493
Delta R.T. 0.02 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

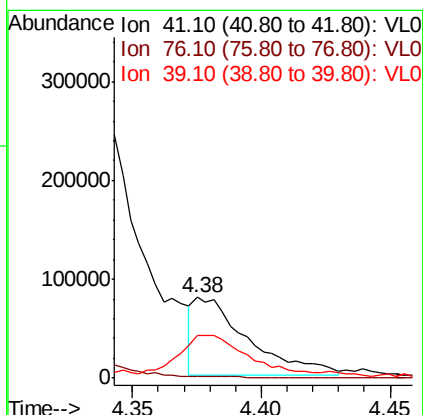
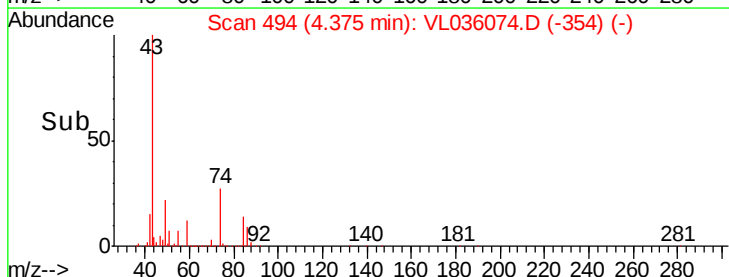
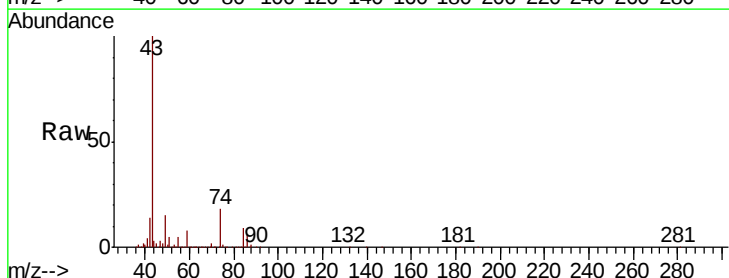
Instrument :
MSVOA_L
ClientSampleId :
IA-3

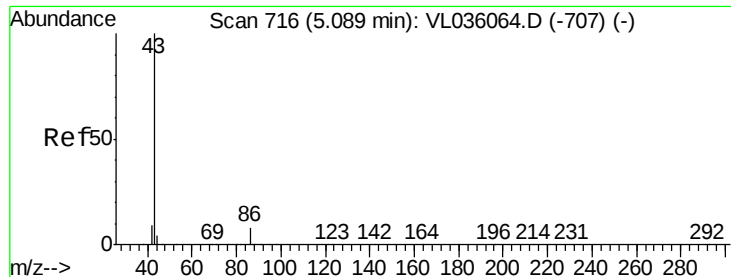
Tot Ion: 84 Resp: 398198
Ion Ratio Lower Upper
84 100
49 173.5 133.0 199.4
51 52.4 38.9 58.3
86 61.2 48.8 73.2



#21
Allyl Chloride
Concen: 1.339 ppbv
RT: 4.38 min Scan# 494
Delta R.T. -0.05 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion: 41 Resp: 113927
Ion Ratio Lower Upper
41 100
76 0.0 21.0 31.4#
39 80.9 66.0 99.0





#23

Vinyl Acetate

Concen: 3.988 ppbv

RT: 5.12 min Scan# 727

Delta R.T. 0.04 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion: 43 Resp: 679547

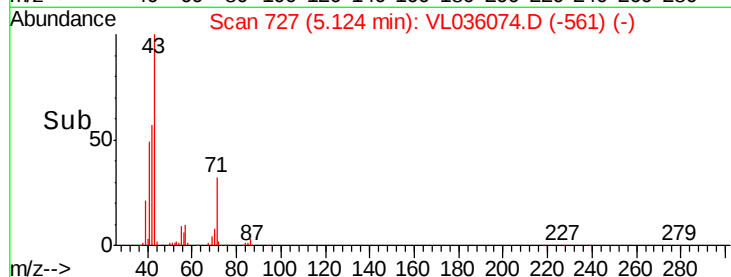
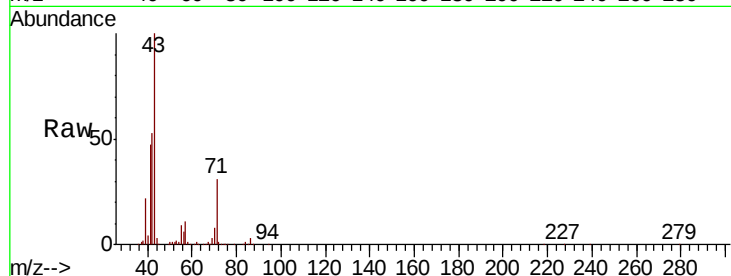
Ion Ratio Lower Upper

43 100

86 2.7 5.0 7.4#

42 53.8 7.8 11.6#

44 2.5 3.2 4.8#

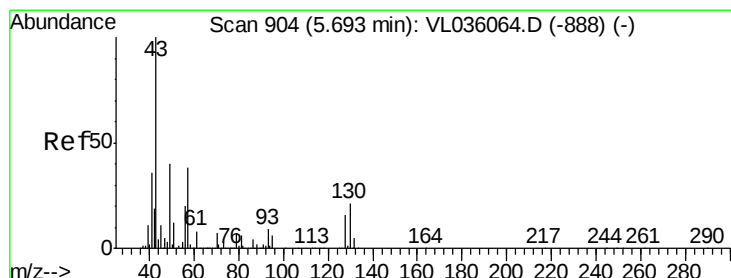
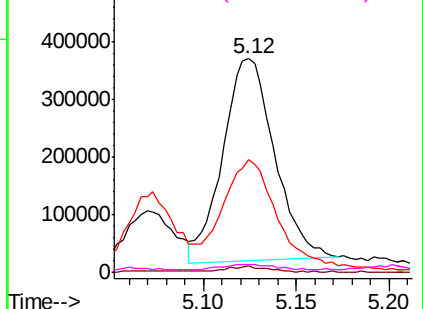


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 56.472 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Tgt Ion: 43 Resp:14437599

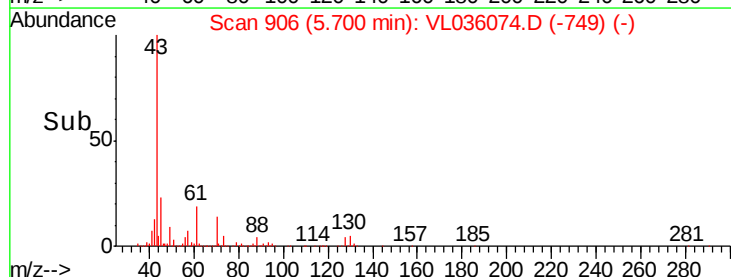
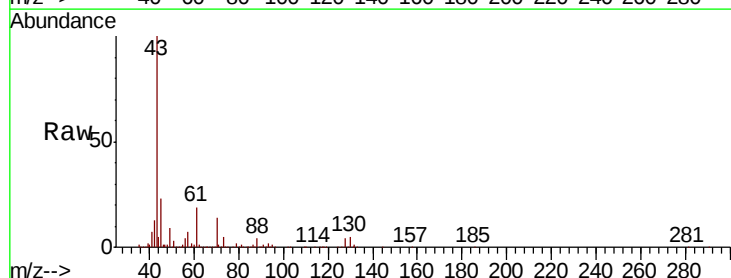
Ion Ratio Lower Upper

43 100

45 19.9 8.2 12.4#

61 15.3 7.4 11.2#

70 11.7 5.4 8.0#

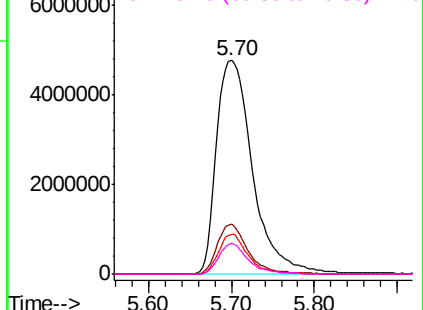


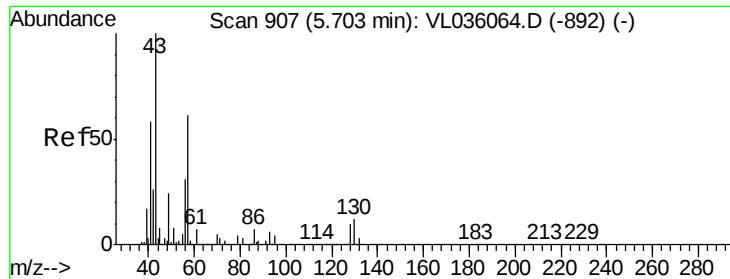
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

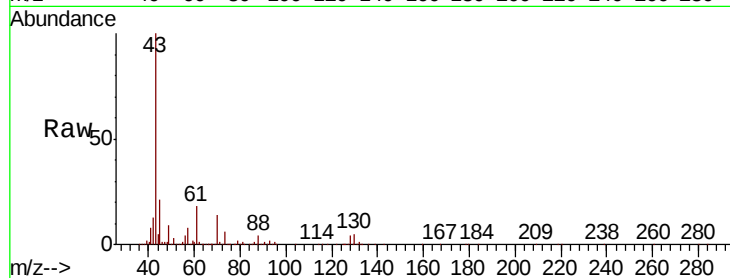




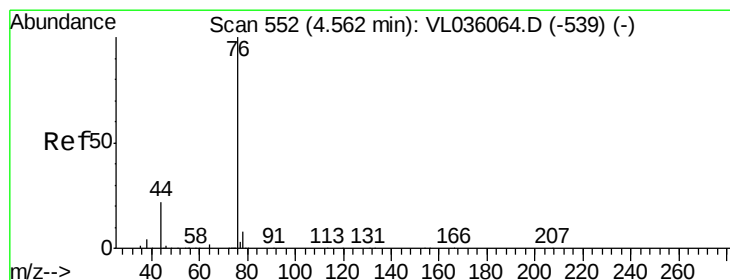
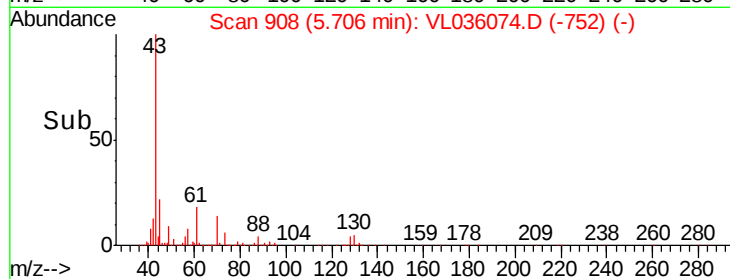
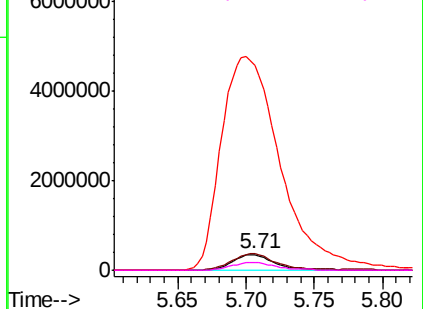
#26
Hexane
Concen: 6.531 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tot Ion: 57 Resp: 751410
Ion Ratio Lower Upper
57 100
41 118.6 82.9 124.3
43 1933.4 199.9 299.9#
56 54.4 43.1 64.7

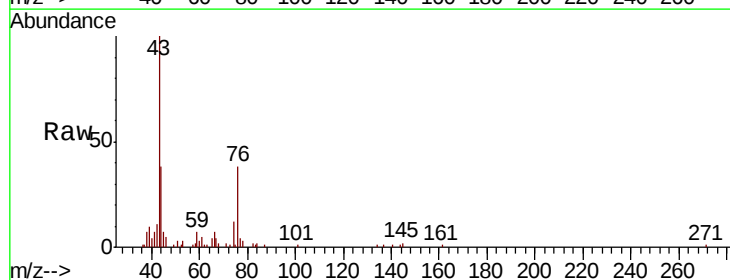


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

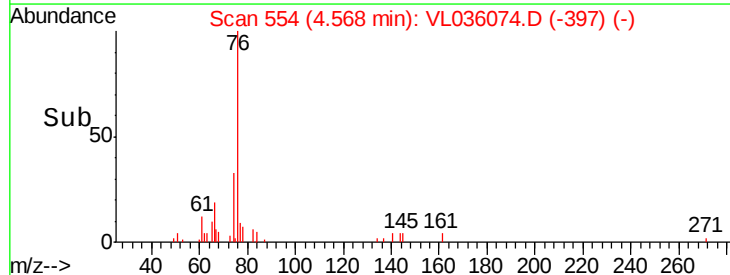
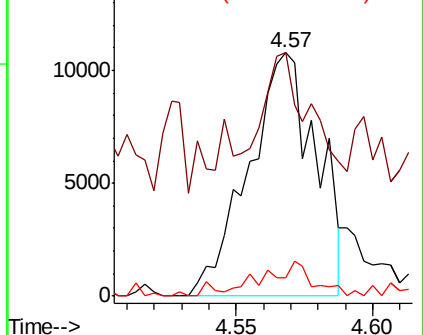


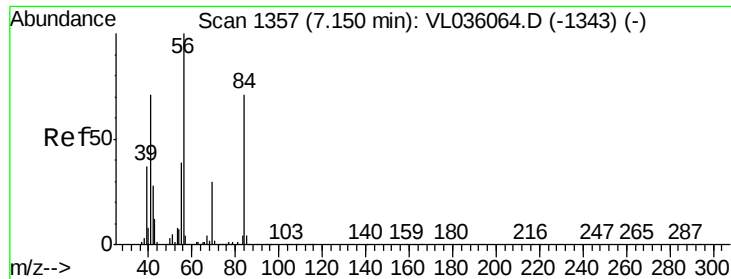
#27
Carbon Disulfide
Concen: 0.162 ppbv
RT: 4.57 min Scan# 554
Delta R.T. 0.01 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion: 76 Resp: 18571
Ion Ratio Lower Upper
76 100
44 0.0 17.9 26.9#
78 12.0 7.8 11.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

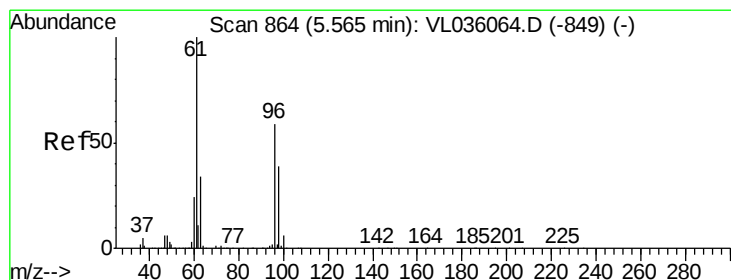
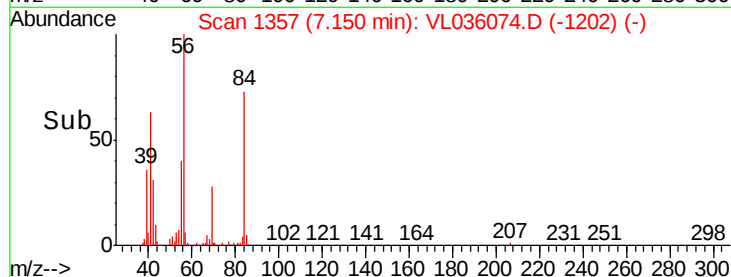
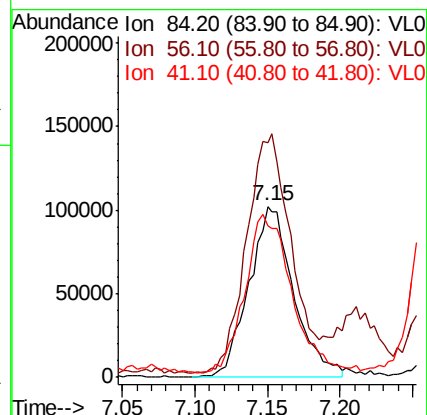
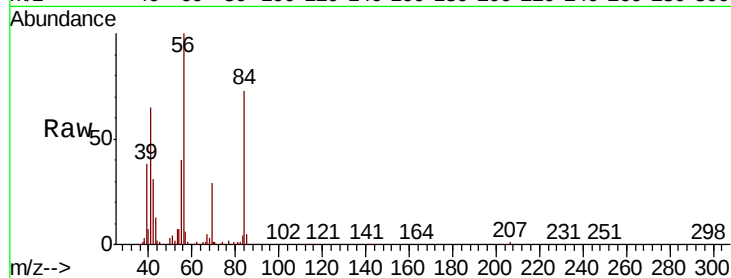




#30
Cvclohexane
Concen: 2.595 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

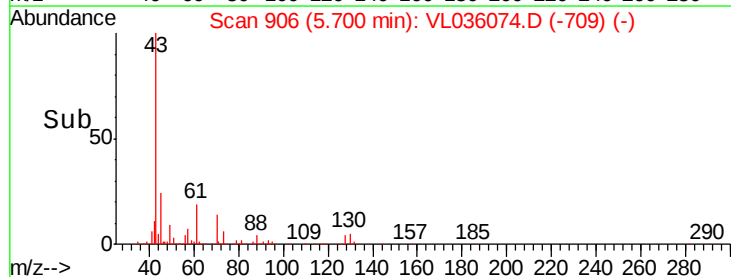
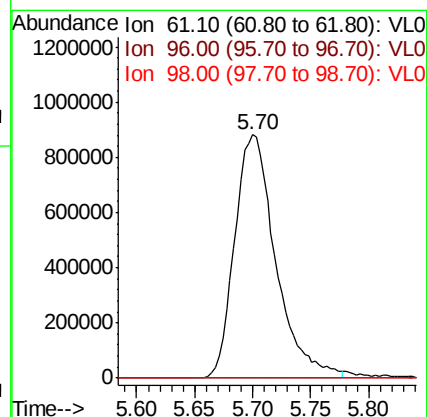
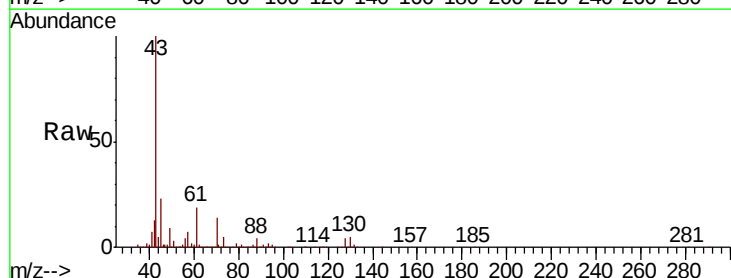
Instrument :
MSVOA_L
ClientSampleId :
IA-3

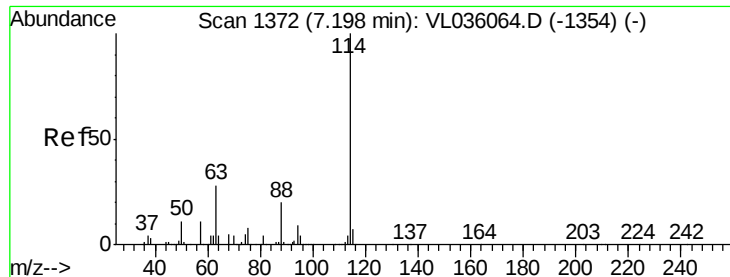
Tot Ion	Ratio	Lower	Upper
84	100		
56	140.0	128.0	192.0
41	101.6	81.3	121.9



#31
cis-1,2-Dichloroethene
Concen: 20.755 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.13 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion	Ratio	Lower	Upper
61	100		
96	0.1	47.3	70.9#
98	0.0	31.4	47.0#

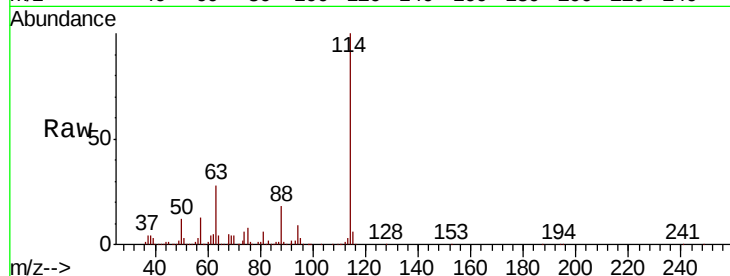




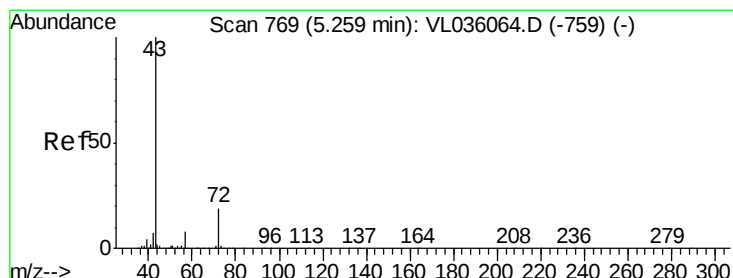
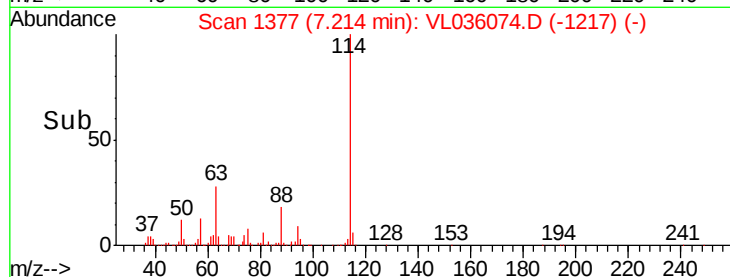
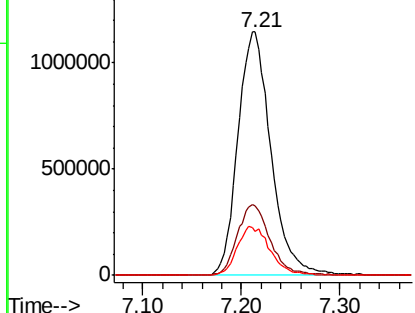
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. 0.02 min
 Lab File: VL036074.D
 Acq: 7 Dec 2020 21:07

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Tot Ion:114 Resp: 2661146
 Ion Ratio Lower Upper
 114 100
 63 29.2 23.6 35.4
 88 20.1 15.8 23.6

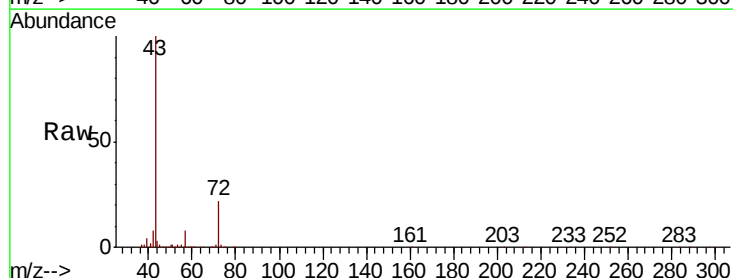


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

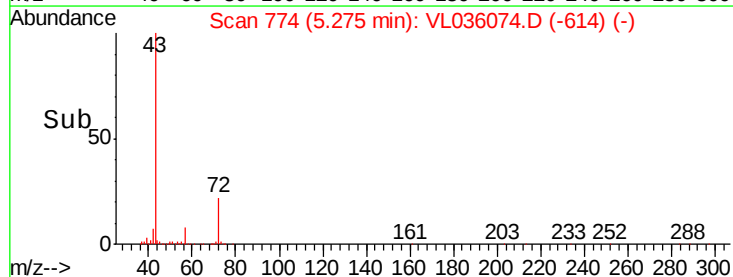
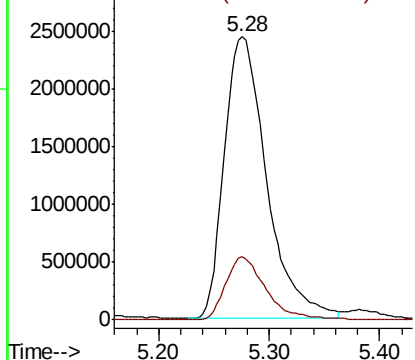


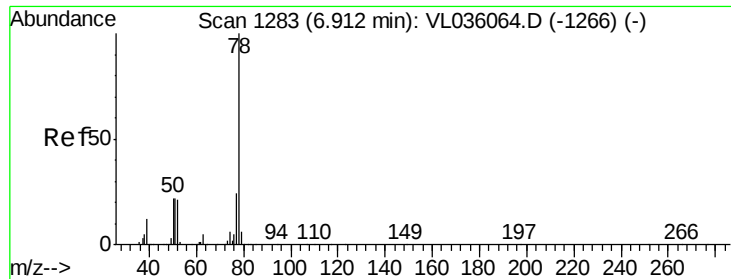
#34
 2-Butanone
 Concen: 36.986 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.02 min
 Lab File: VL036074.D
 Acq: 7 Dec 2020 21:07

Tgt Ion: 43 Resp: 6528813
 Ion Ratio Lower Upper
 43 100
 72 21.5 16.5 24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

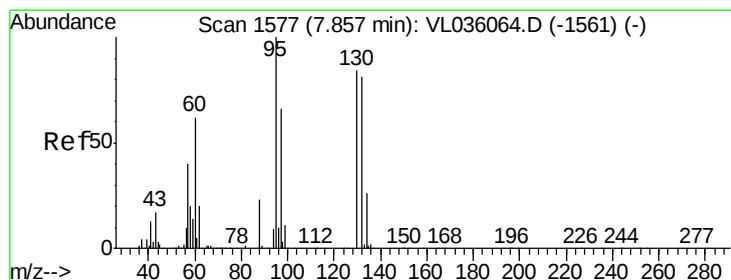
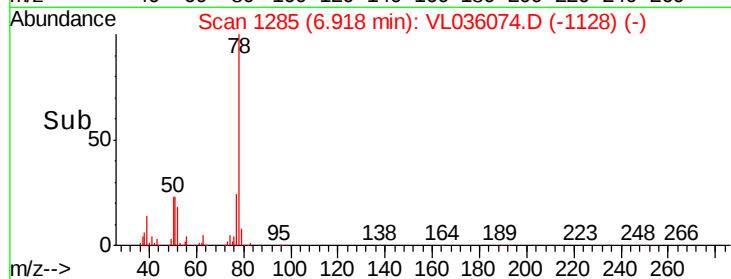
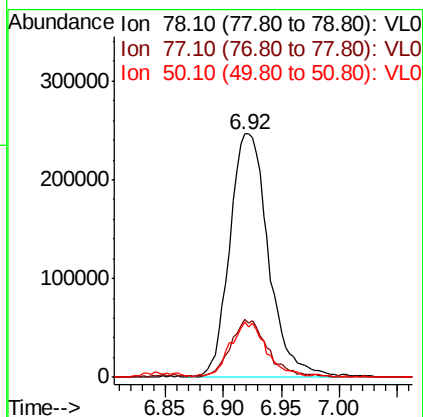
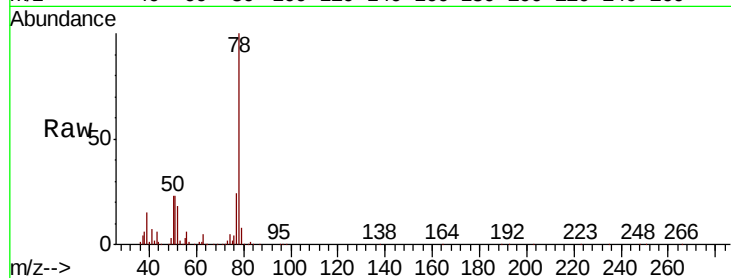




#36
Benzene
Concen: 2.531 ppbv
RT: 6.92 min Scan# 1285
Delta R.T. 0.01 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

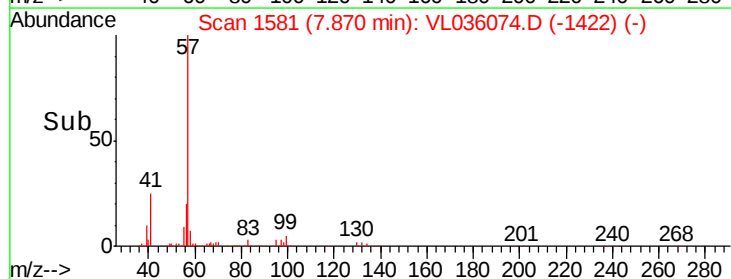
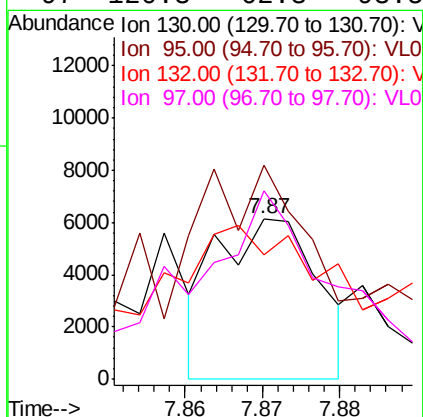
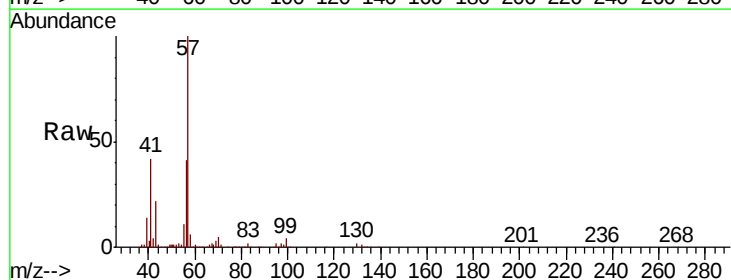
Instrument :
MSVOA_L
ClientSampleId :
IA-3

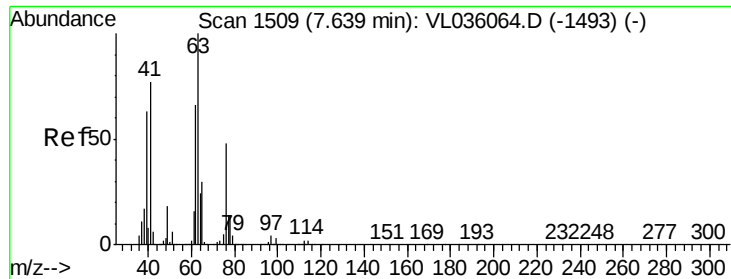
Tot Ion: 78 Resp: 570783
Ion Ratio Lower Upper
78 100
77 23.5 19.4 29.2
50 22.5 17.8 26.8



#38
Trichloroethene
Concen: 0.066 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion:130 Resp: 5585
Ion Ratio Lower Upper
130 100
95 156.3 95.2 142.8#
132 33.3 76.9 115.3#
97 120.3 62.3 93.5#

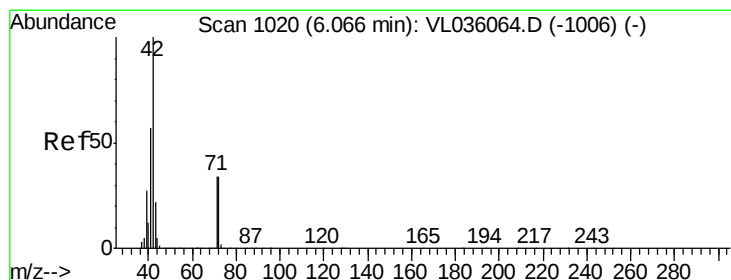
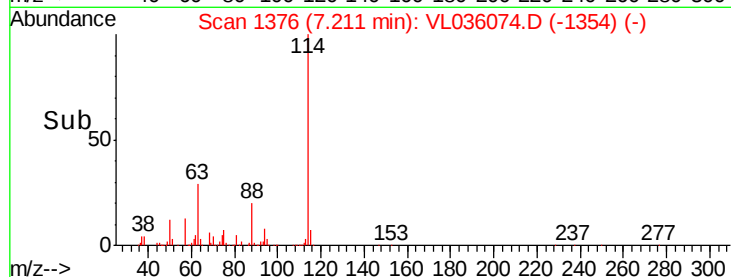
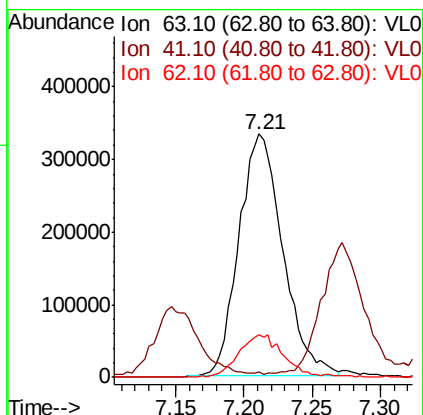
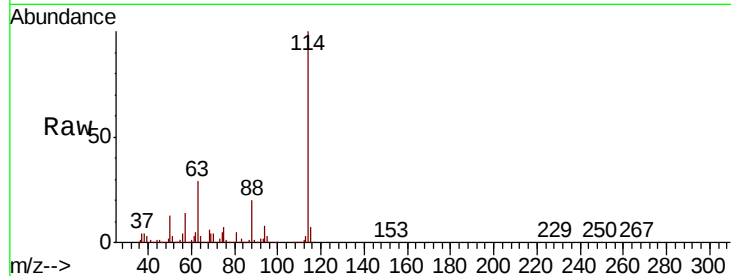




#39
 1,2-Dichloropropane
 Concen: 8.385 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.43 min
 Lab File: VL036074.D
 Acq: 7 Dec 2020 21:07

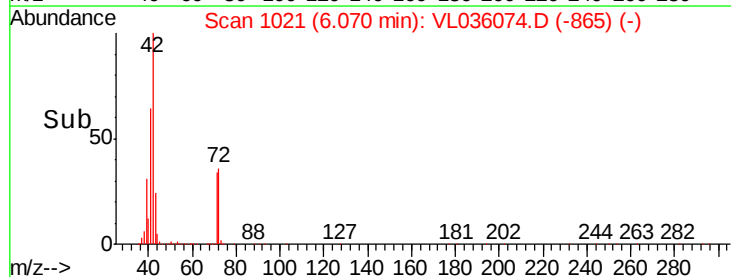
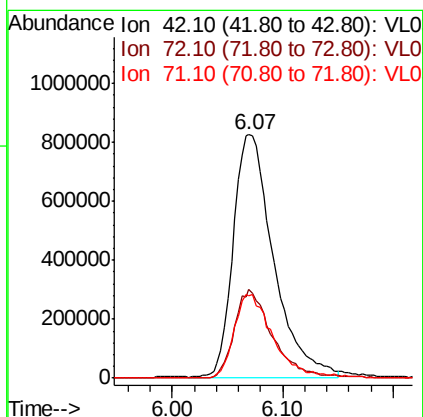
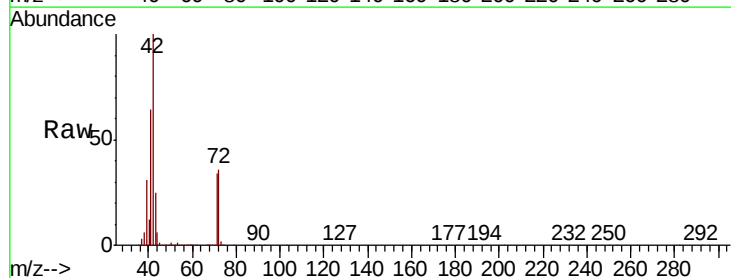
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

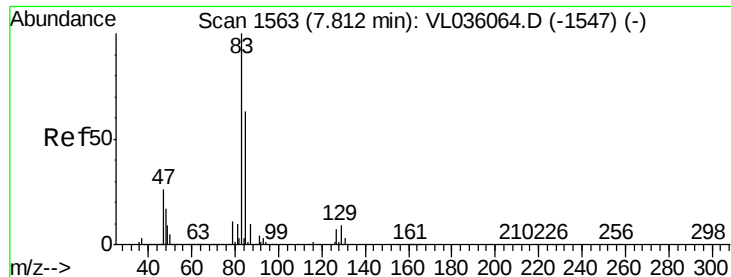
Tot Ion: 63 Resp: 746823
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.9 92.9#
 62 17.5 52.5 78.7#



#41
 Tetrahydrofuran
 Concen: 19.841 ppbv
 RT: 6.07 min Scan# 1021
 Delta R.T. 0.00 min
 Lab File: VL036074.D
 Acq: 7 Dec 2020 21:07

Tgt Ion: 42 Resp: 2080720
 Ion Ratio Lower Upper
 42 100
 72 34.9 28.3 42.5
 71 34.0 27.3 40.9





#42

Bromodichloromethane

Concen: 0.045 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

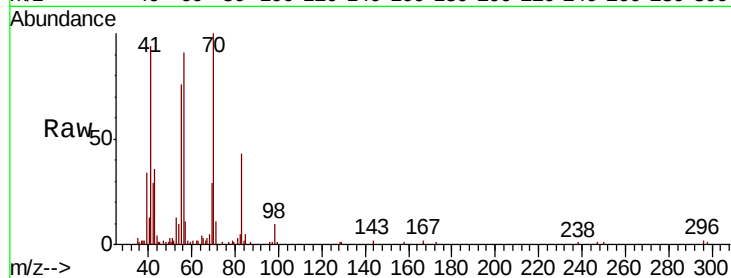
Tot Ion: 83 Resp: 7822

Ion Ratio Lower Upper

83 100

85 6.4 50.2 75.2#

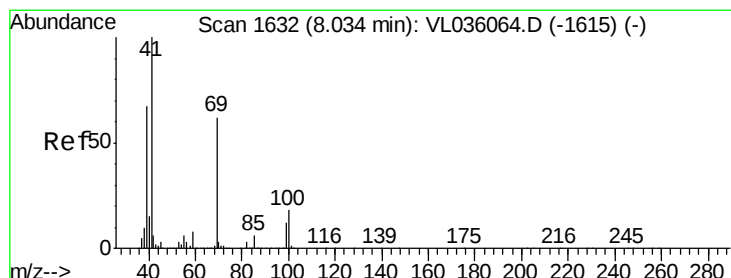
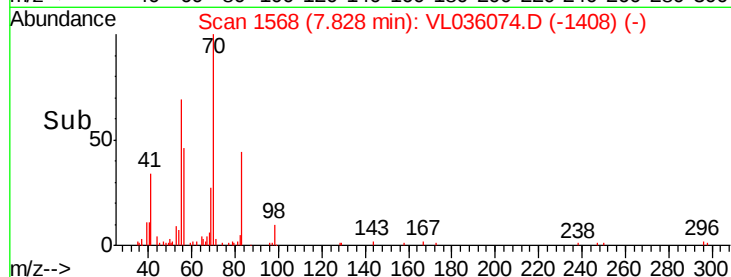
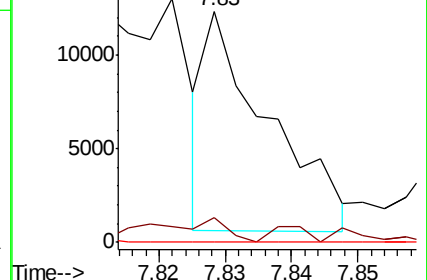
127 0.0 5.5 8.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.158 ppbv

RT: 8.05 min Scan# 1637

Delta R.T. 0.02 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

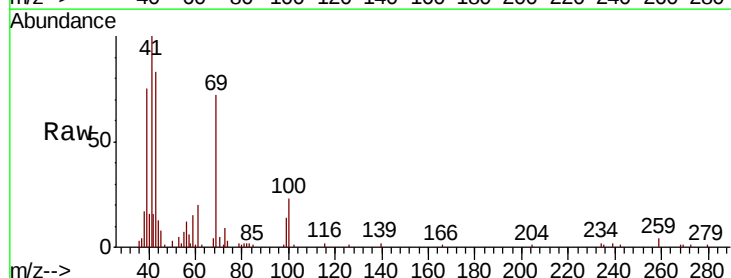
Tgt Ion: 69 Resp: 15321

Ion Ratio Lower Upper

69 100

41 0.0 133.0 199.6#

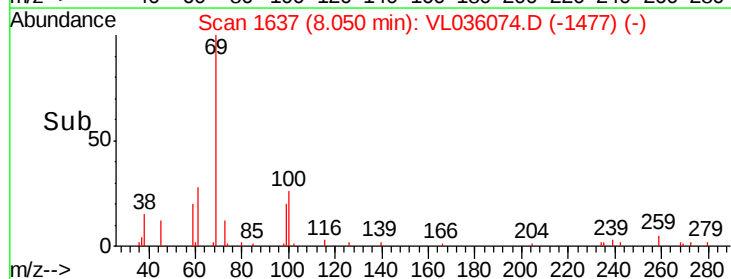
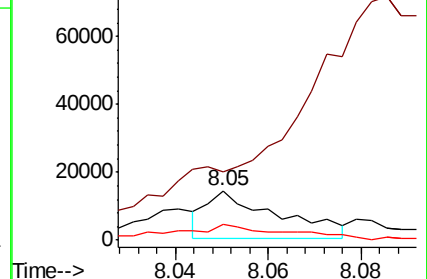
100 55.9 25.4 38.0#

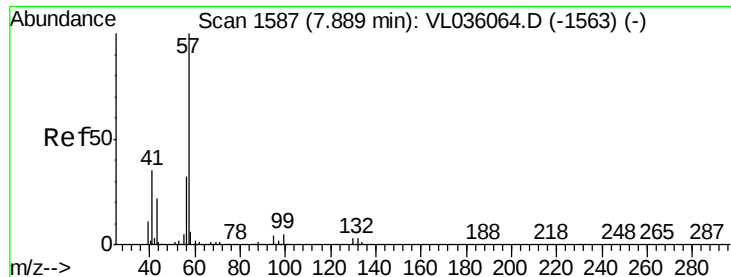


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 5.757 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampled :

IA-3

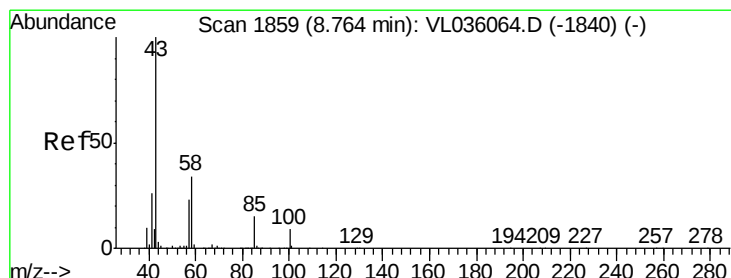
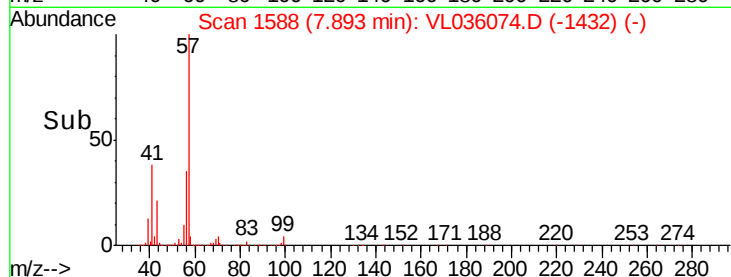
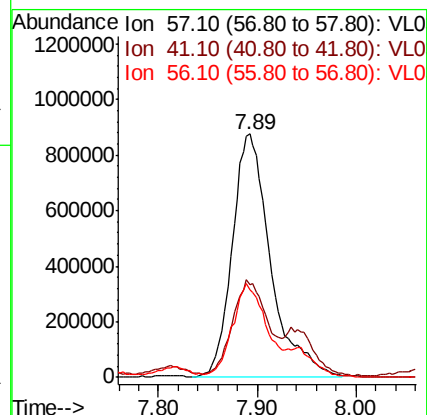
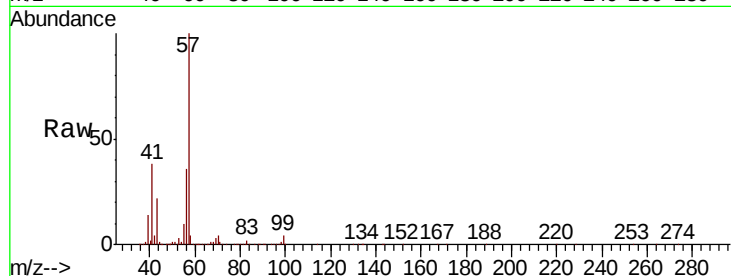
Tot Ion: 57 Resp: 2351539

Ion	Ratio	Lower	Upper
57	100		
41	38.9	28.9	43.3
56	43.4	25.3	37.9

57 100

41 38.9 28.9 43.3

56 43.4 25.3 37.9



#50

4-Methyl-2-Pentanone

Concen: 5.471 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. 0.01 min

Lab File: VL036074.D

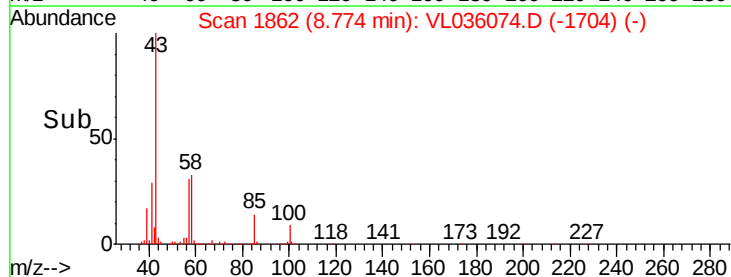
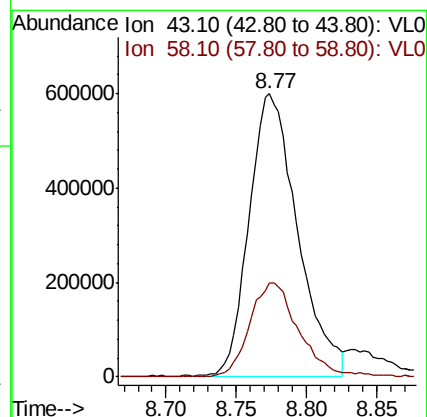
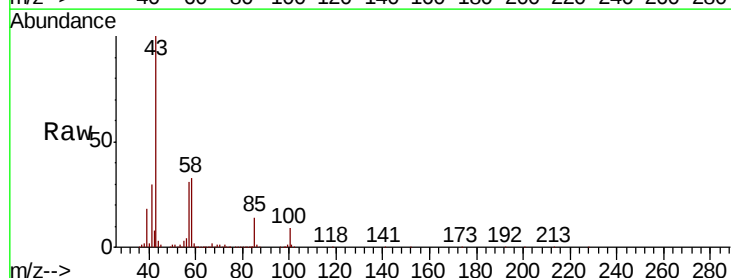
Acq: 7 Dec 2020 21:07

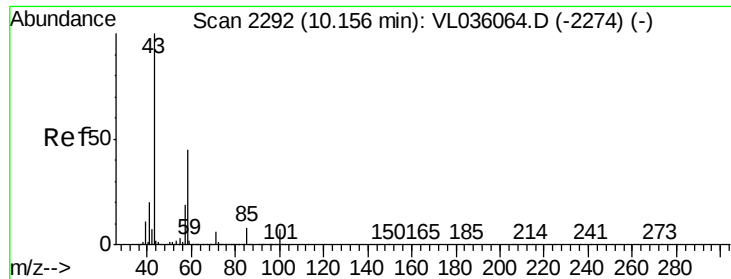
Tgt Ion: 43 Resp: 1440186

Ion	Ratio	Lower	Upper
43	100		
58	34.2	27.4	41.2

43 100

58 34.2 27.4 41.2

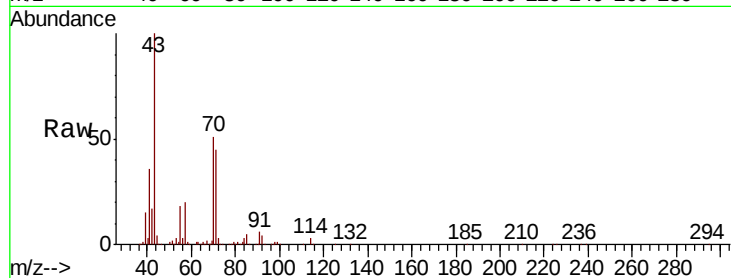




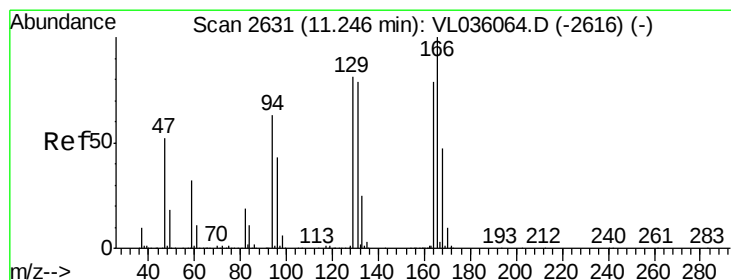
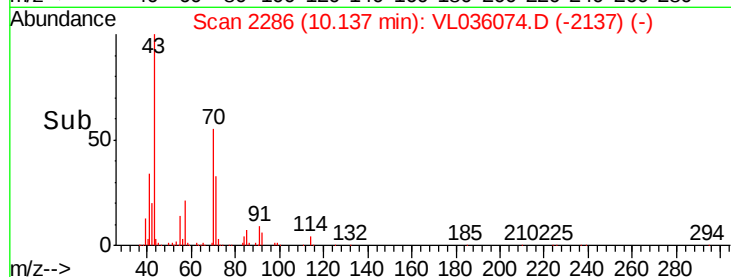
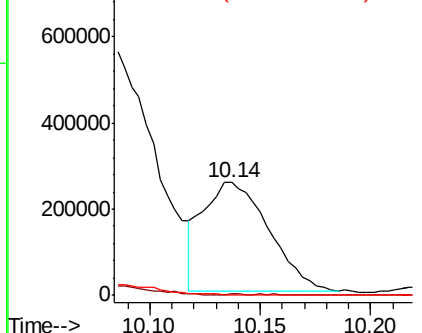
#51
2-Hexanone
Concen: 2.569 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. -0.02 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Instrument :
MSVOA_L
ClientSampled :
IA-3

Tot Ion: 43 Resp: 528737
Ion Ratio Lower Upper
43 100
58 0.8 38.7 58.1#
98 0.0 0.1 0.1#

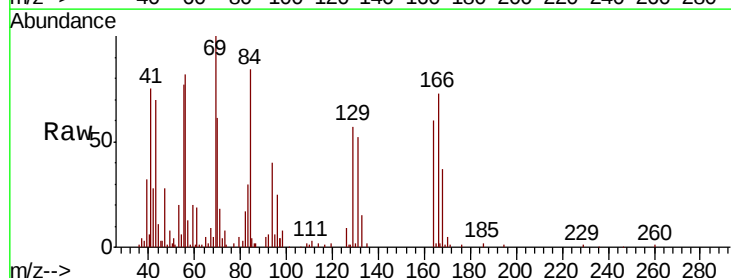


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

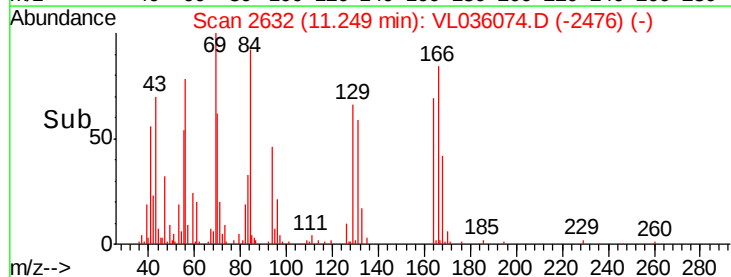
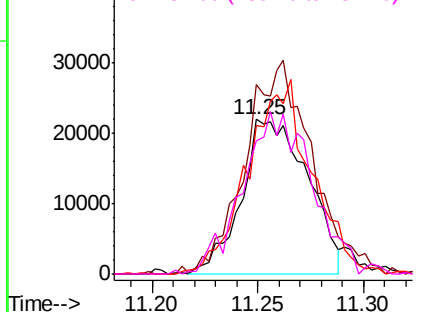


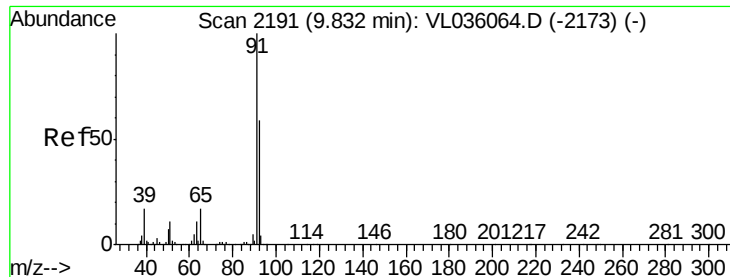
#52
Tetrachloroethene
Concen: 0.588 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion: 164 Resp: 48045
Ion Ratio Lower Upper
164 100
166 121.2 101.9 152.9
129 92.9 82.1 123.1
131 84.5 80.8 121.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 107.097 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. 0.03 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

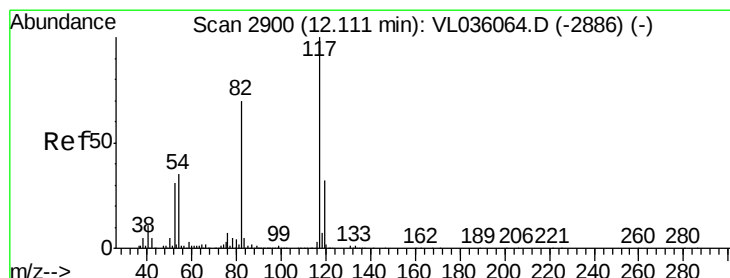
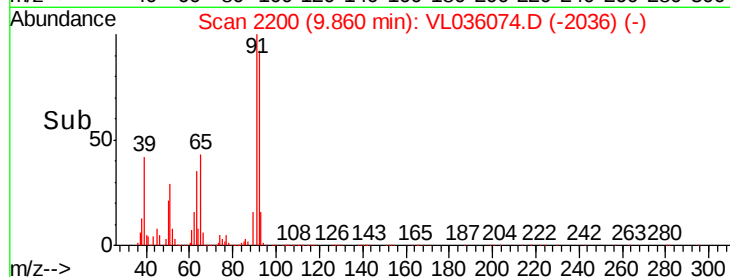
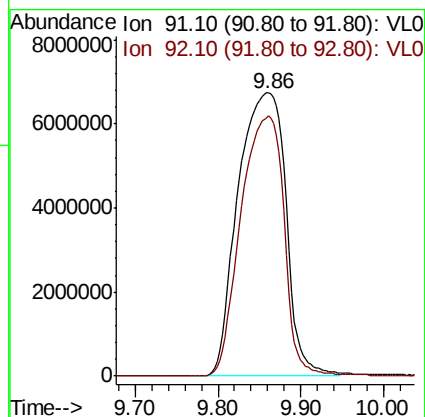
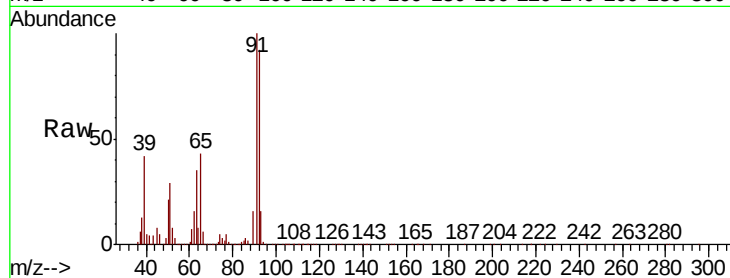
IA-3

Tot Ion: 91 Resp: 27121670

Ion Ratio Lower Upper

91 100

92 83.1 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.01 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

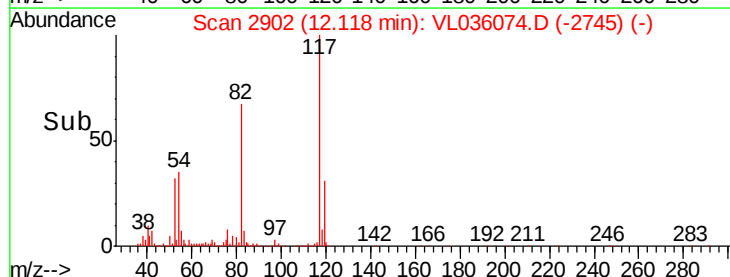
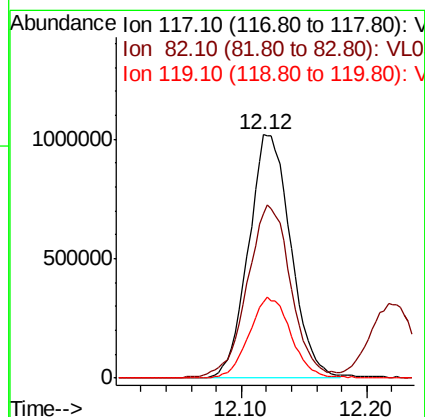
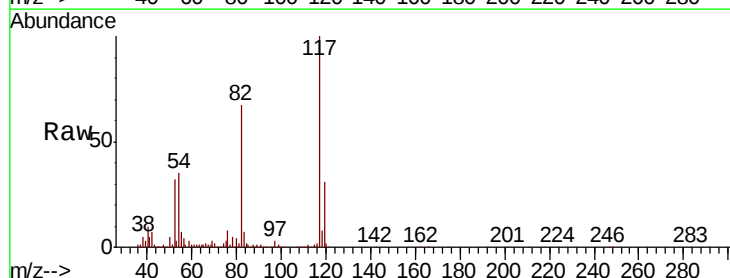
Tgt Ion: 117 Resp: 2386430

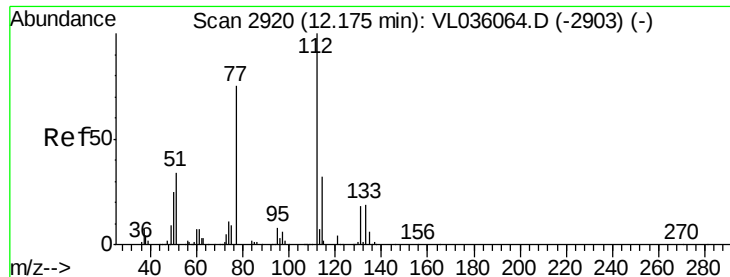
Ion Ratio Lower Upper

117 100

82 73.8 0.0 0.0#

119 33.1 0.0 0.0#





#57

Chlorobenzene

Concen: 0.104 ppbv

RT: 12.18 min Scan# 2921

Delta R.T. 0.00 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampled :

IA-3

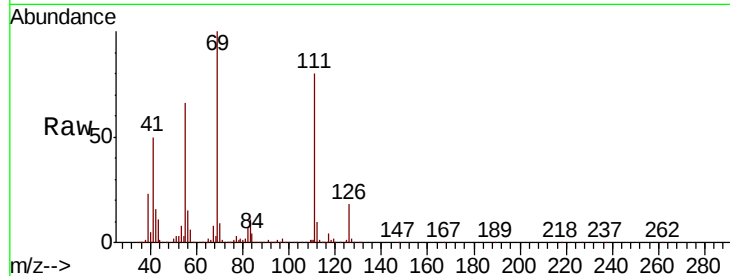
Tot Ion:112 Resp: 17446

Ion Ratio Lower Upper

112 100

77 19.2 60.5 90.7#

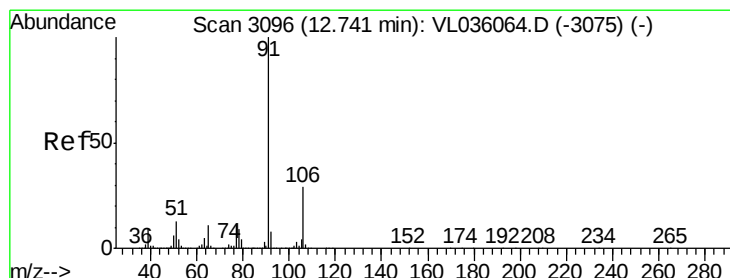
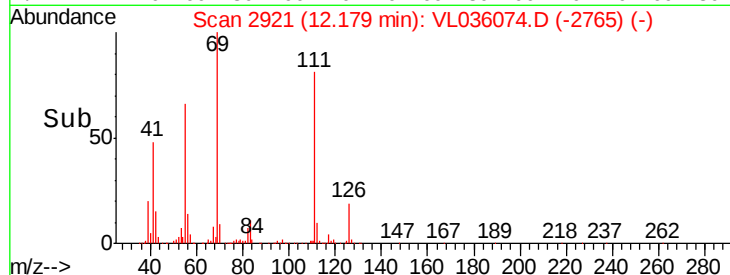
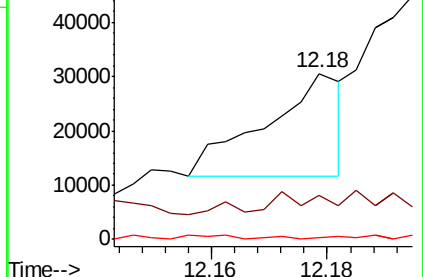
114 0.0 29.2 35.6#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.402 ppbv

RT: 12.74 min Scan# 3097

Delta R.T. 0.00 min

Lab File: VL036074.D

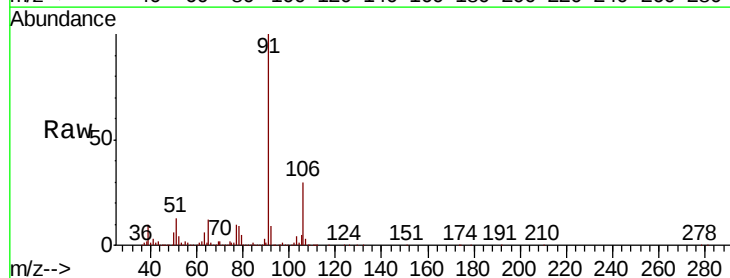
Acq: 7 Dec 2020 21:07

Tgt Ion: 91 Resp: 3729048

Ion Ratio Lower Upper

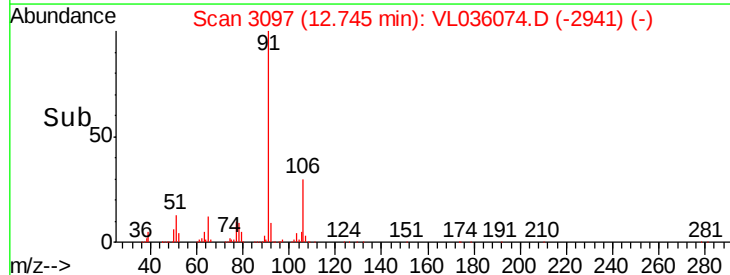
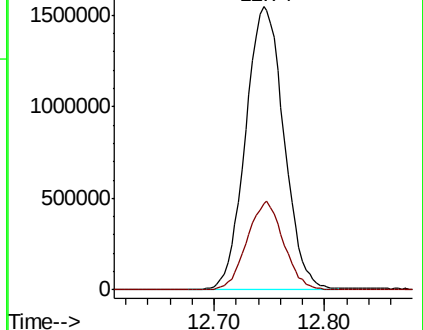
91 100

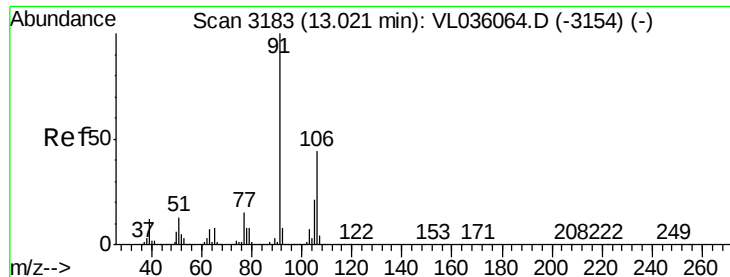
106 30.4 23.0 34.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

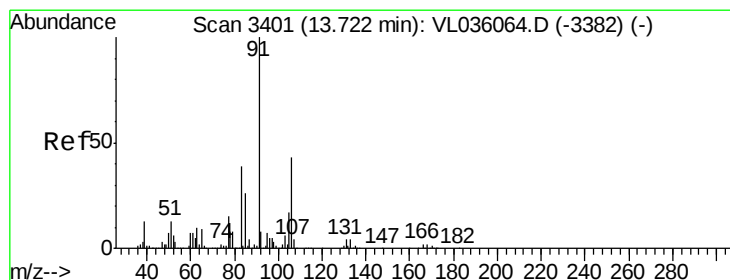
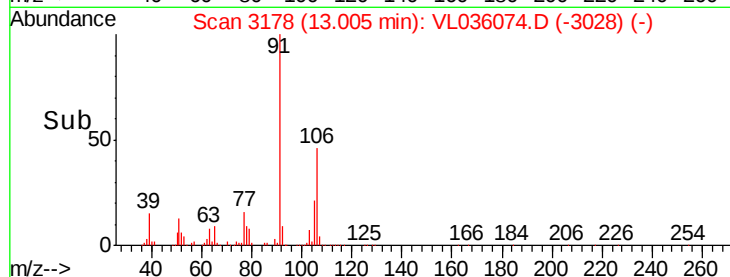
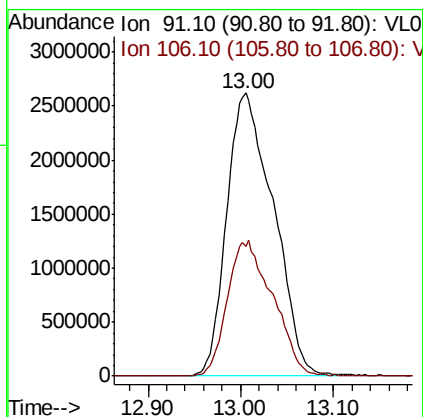
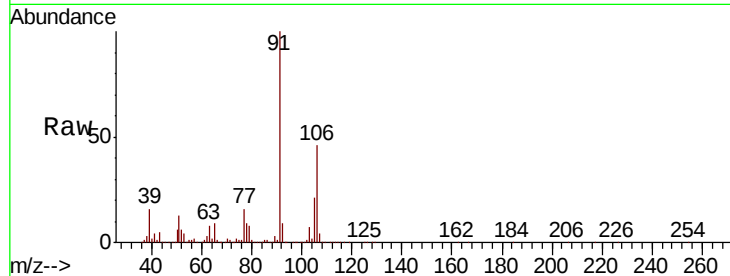




#59
m/p-Xylene
Concen: 33.163 ppbv
RT: 13.00 min Scan# 3178
Delta R.T. -0.02 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

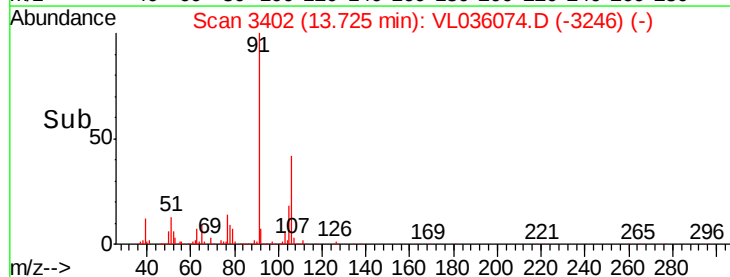
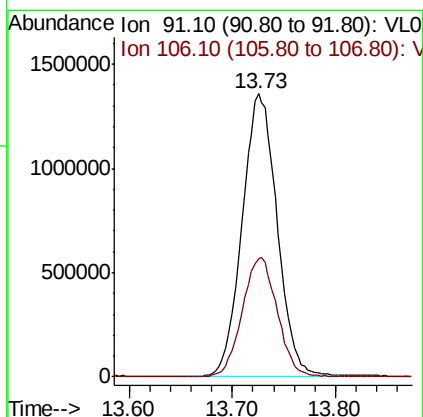
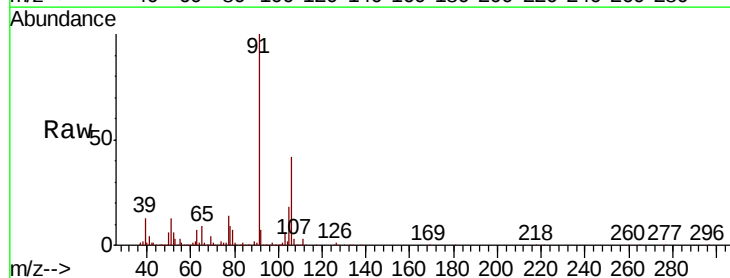
Instrument :
MSVOA_L
ClientSampled :
IA-3

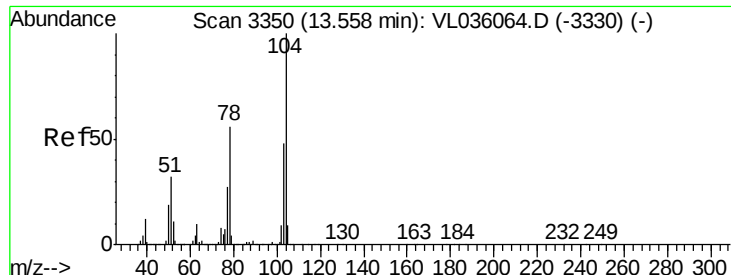
Tot Ion: 91 Resp: 9135032
Ion Ratio Lower Upper
91 100
106 46.8 33.6 50.4



#60
o-Xylene
Concen: 12.326 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion: 91 Resp: 3198898
Ion Ratio Lower Upper
91 100
106 42.6 21.6 64.6





#61

Stvrene

Concen: 7.412 ppbv

RT: 13.56 min Scan# 3352

Delta R.T. 0.01 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

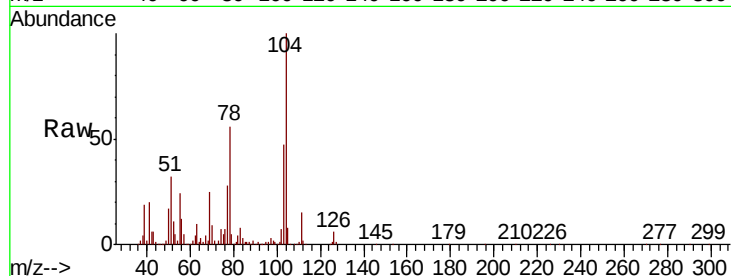
Tot Ion:104 Resp: 1235078

Ion Ratio Lower Upper

104 100

78 58.0 45.8 68.8

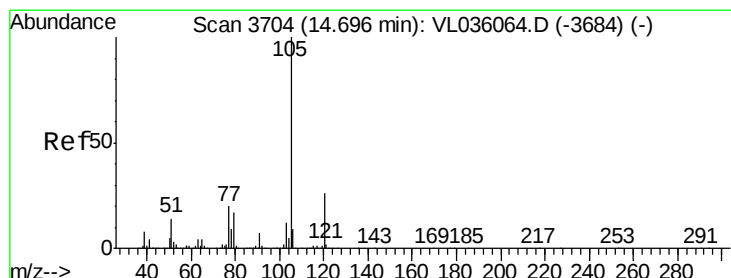
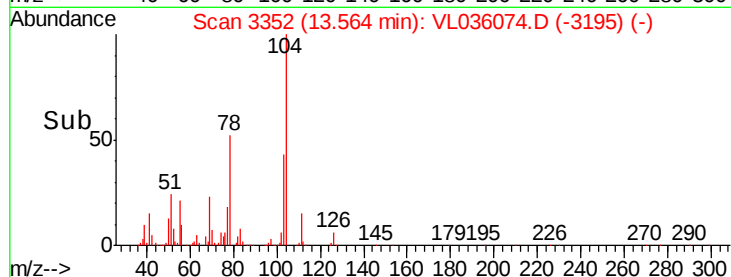
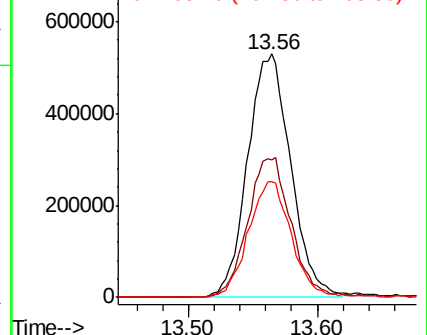
103 47.4 38.6 57.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.593 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. 0.01 min

Lab File: VL036074.D

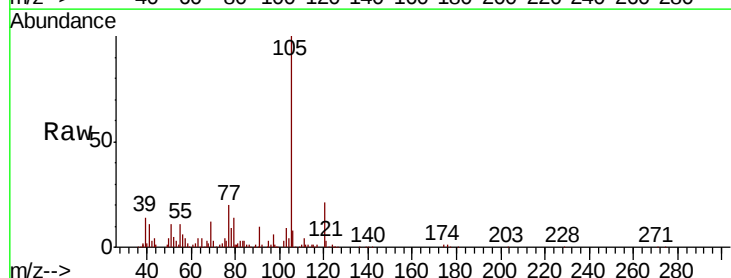
Acq: 7 Dec 2020 21:07

Tgt Ion:105 Resp: 228174

Ion Ratio Lower Upper

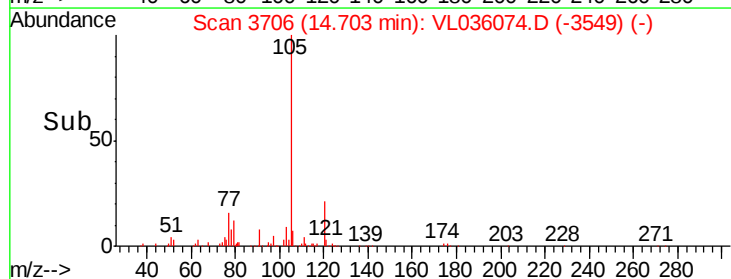
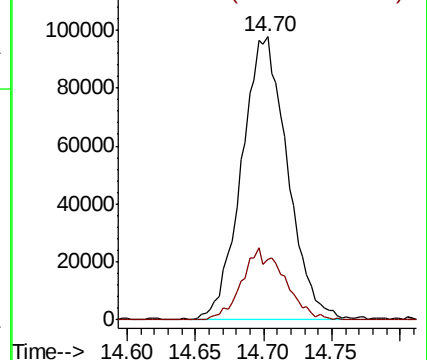
105 100

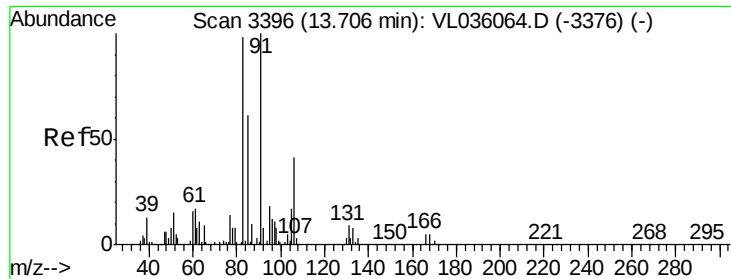
120 23.5 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.215 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

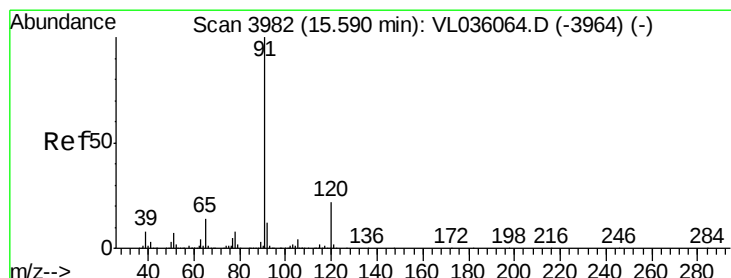
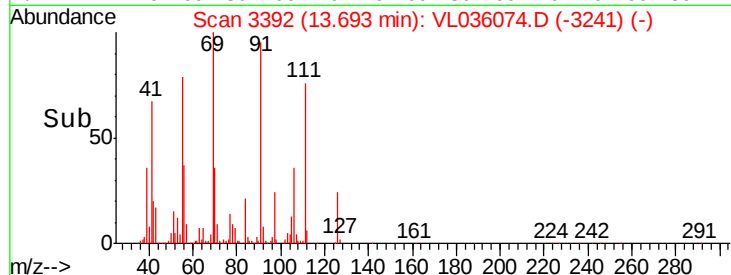
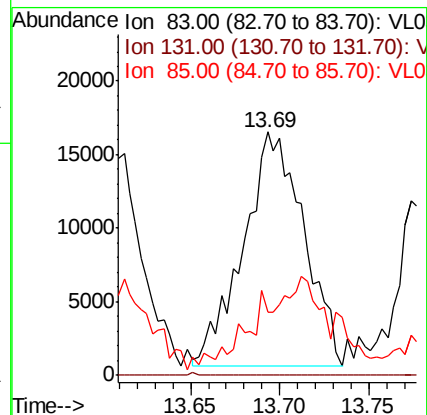
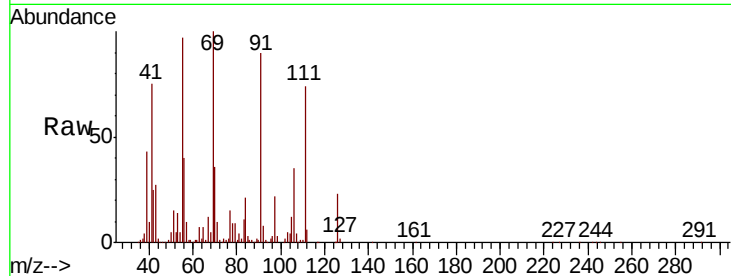
Tot Ion: 83 Resp: 37649

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 49.0 32.5 97.5



#64

n-propylbenzene

Concen: 1.783 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. 0.00 min

Lab File: VL036074.D

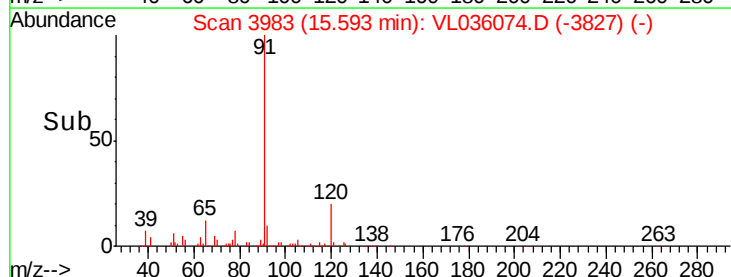
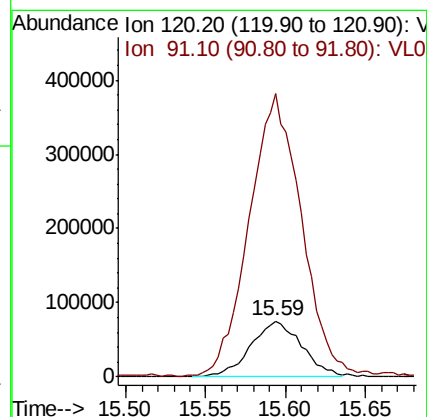
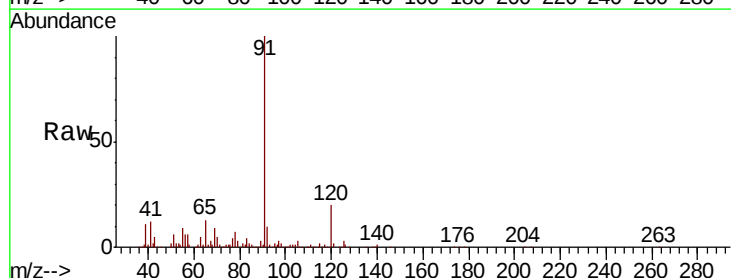
Acq: 7 Dec 2020 21:07

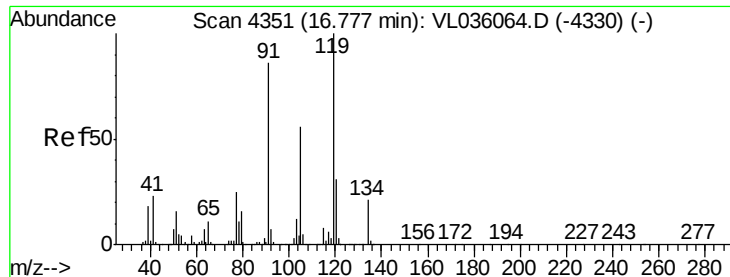
Tgt Ion:120 Resp: 165003

Ion Ratio Lower Upper

120 100

91 522.5 388.9 583.3





#65

tert-Butylbenzene

Concen: 0.399 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.02 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

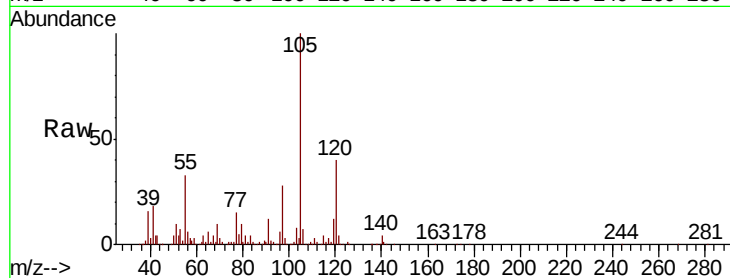
Tot Ion:119 Resp: 125565

Ion Ratio Lower Upper

119 100

91 116.6 70.2 105.2#

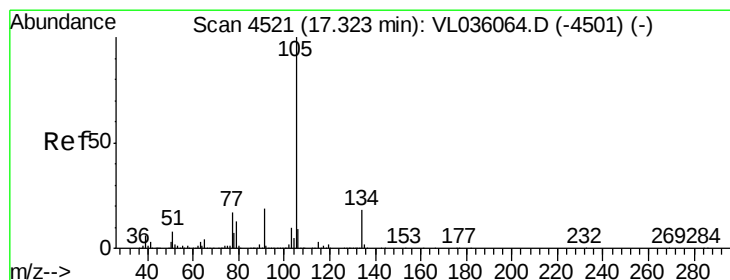
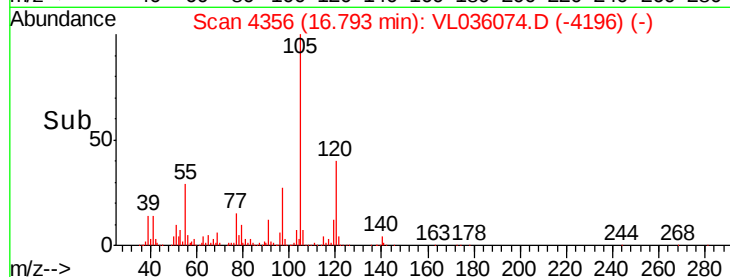
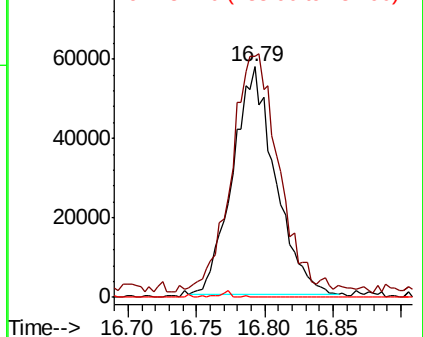
134 0.8 15.8 23.6#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#67

sec-Butylbenzene

Concen: 0.163 ppbv

RT: 17.32 min Scan# 4521

Delta R.T. -0.00 min

Lab File: VL036074.D

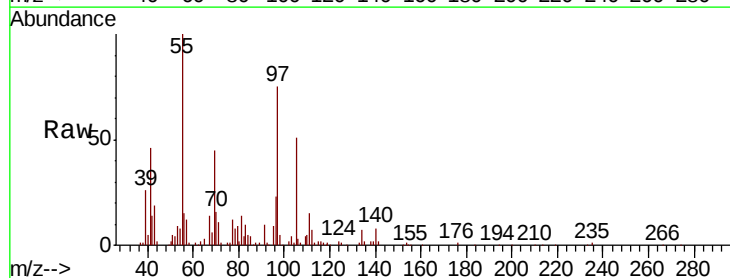
Acq: 7 Dec 2020 21:07

Tgt Ion:105 Resp: 71818

Ion Ratio Lower Upper

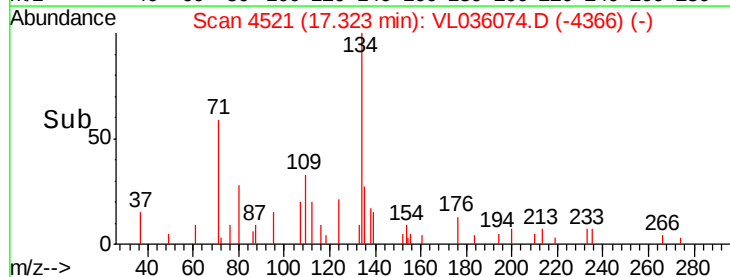
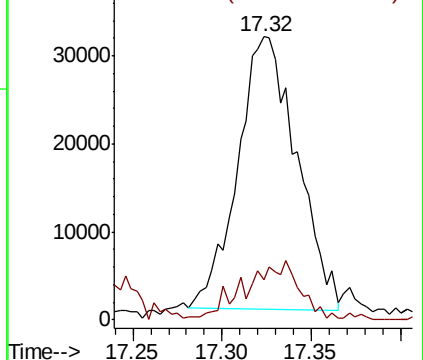
105 100

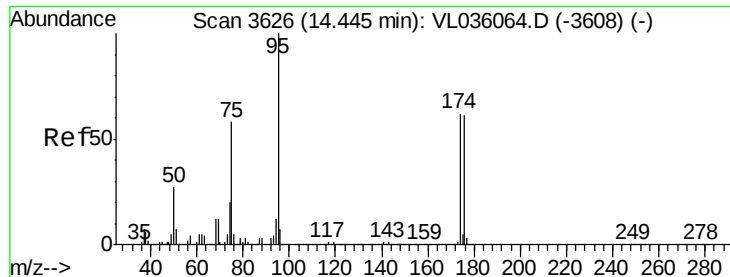
134 20.5 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

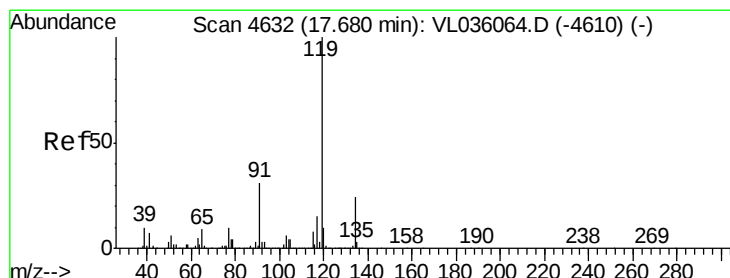
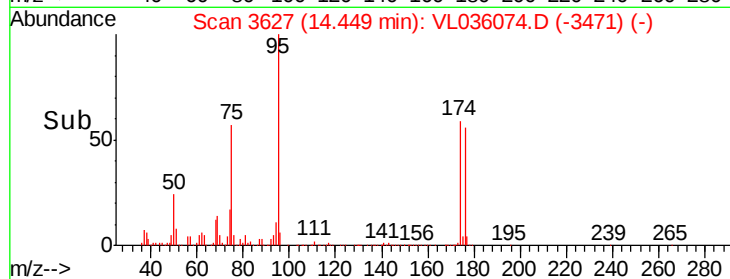
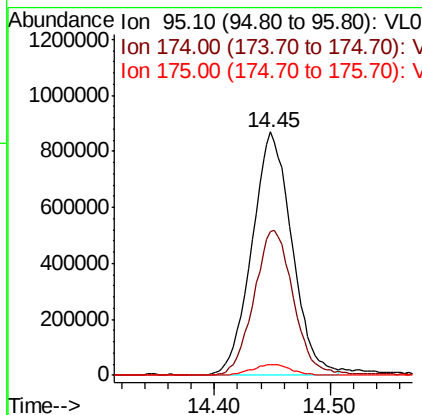
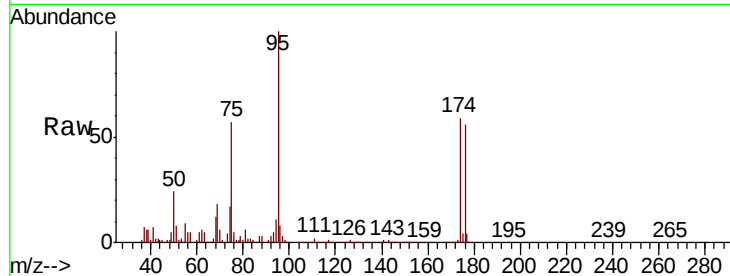




#68
1-Bromo-4-Fluorobenzene
Concen: 10.962 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. 0.00 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

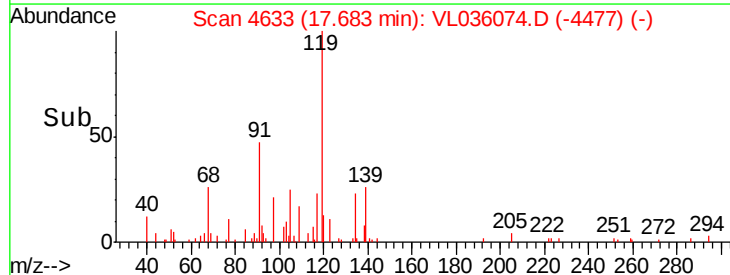
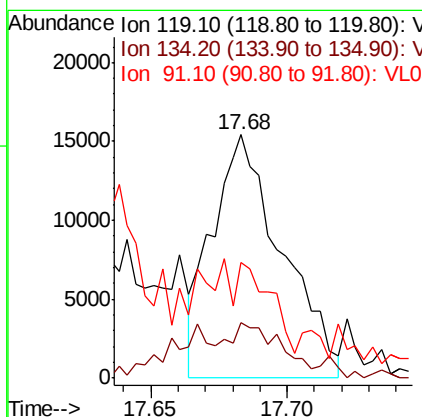
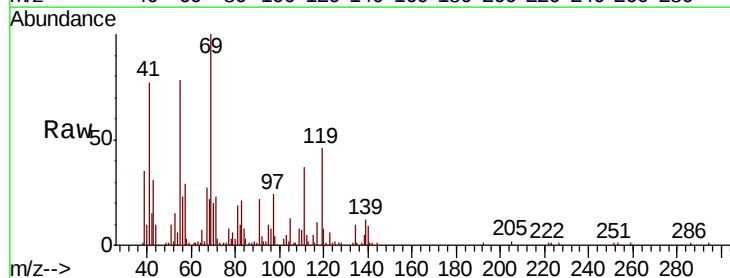
Instrument :
MSVOA_L
ClientSampleId :
IA-3

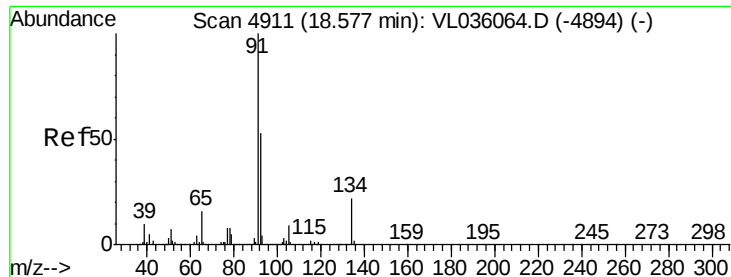
Tot Ion: 95 Resp: 2077211
Ion Ratio Lower Upper
95 100
174 60.3 50.7 76.1
175 4.6 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.079 ppbv
RT: 17.68 min Scan# 4633
Delta R.T. 0.00 min
Lab File: VL036074.D
Acq: 7 Dec 2020 21:07

Tgt Ion: 119 Resp: 27624
Ion Ratio Lower Upper
119 100
134 33.3 19.8 29.6#
91 50.6 25.8 38.6#





#70

n-Butylbenzene

Concen: 0.054 ppbv

RT: 18.59 min Scan# 4914

Delta R.T. 0.01 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

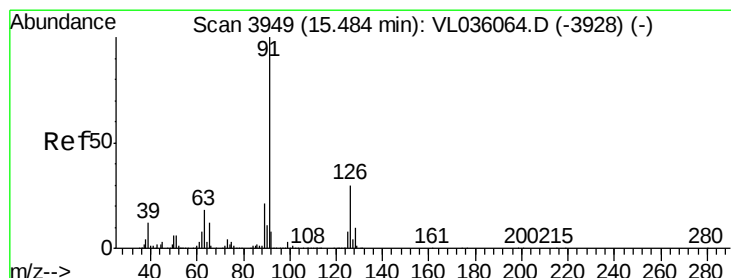
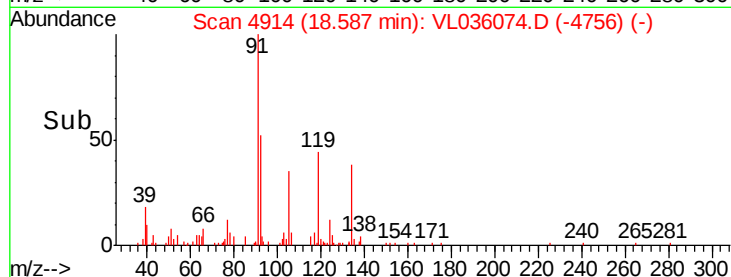
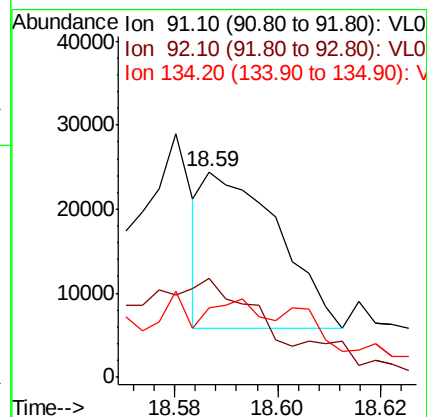
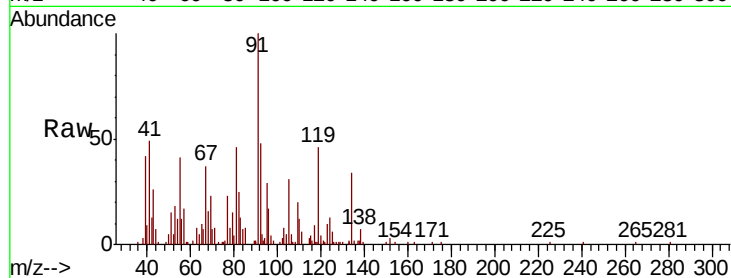
Tot Ion: 91 Resp: 18759

Ion Ratio Lower Upper

91 100

92 158.6 43.3 64.9#

134 0.0 17.1 25.7#



#71

2-Chlorotoluene

Concen: 2.881 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. 0.11 min

Lab File: VL036074.D

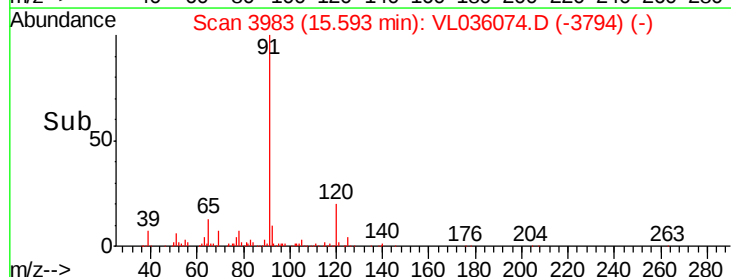
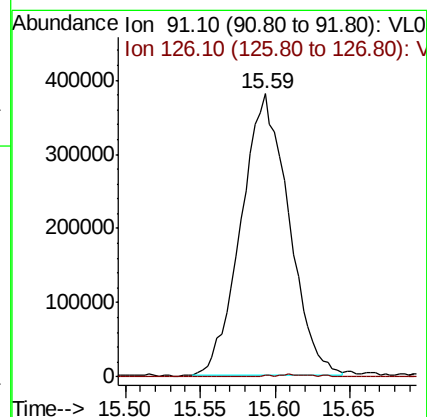
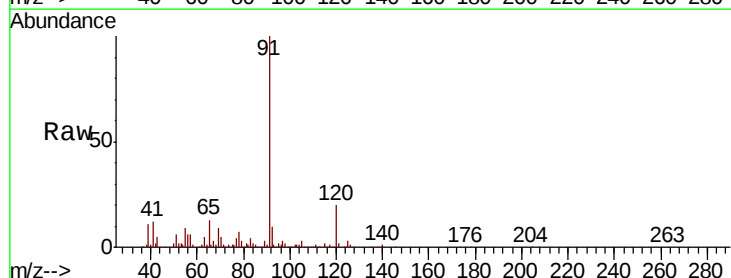
Acq: 7 Dec 2020 21:07

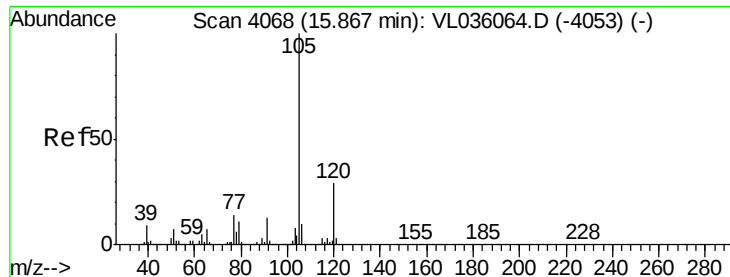
Tgt Ion: 91 Resp: 837913

Ion Ratio Lower Upper

91 100

126 0.8 11.6 46.4#





#72

4-Ethyltoluene

Concen: 2.817 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:105 Resp: 791845

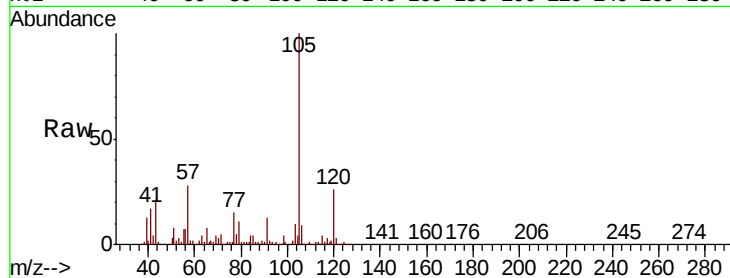
Ion Ratio Lower Upper

105 100

120 28.8 23.6 35.4

91 14.4 11.4 17.0

77 15.4 12.1 18.1

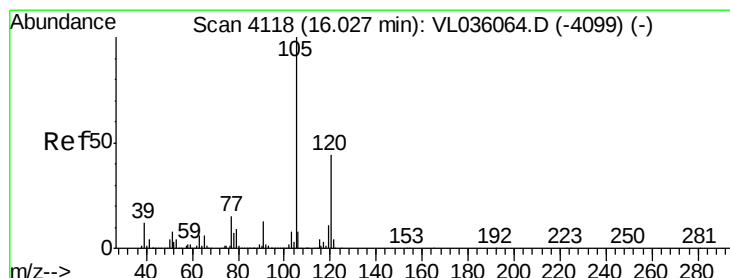
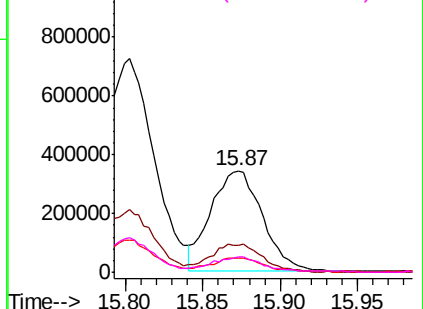
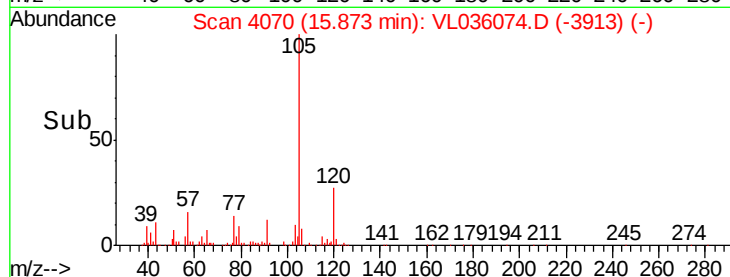


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 1.836 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL036074.D

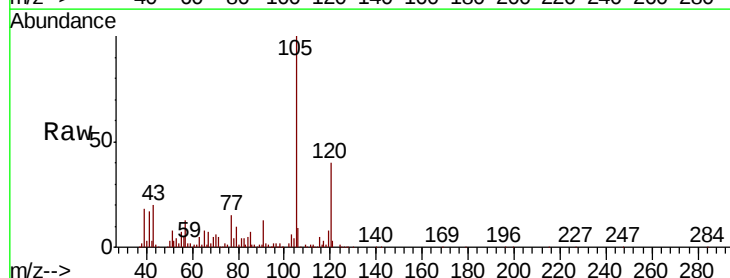
Acq: 7 Dec 2020 21:07

Tgt Ion:105 Resp: 493095

Ion Ratio Lower Upper

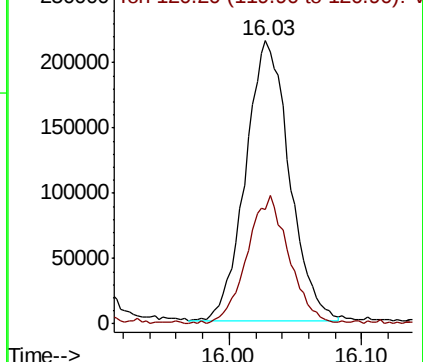
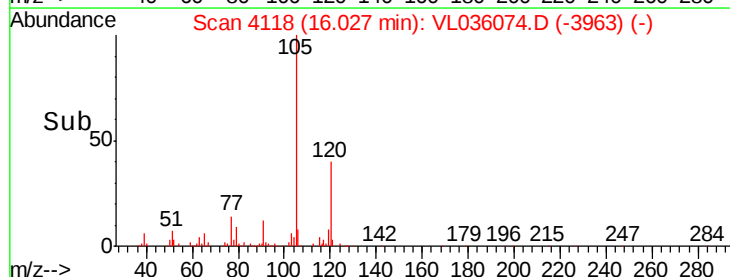
105 100

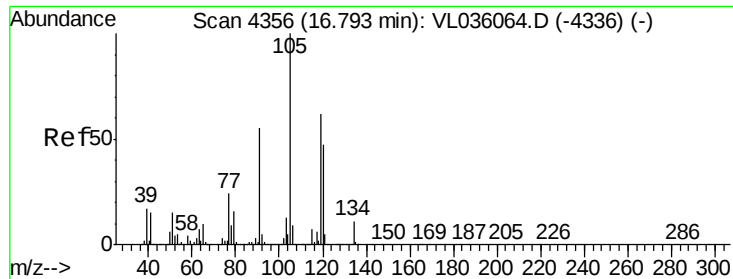
120 40.6 35.4 53.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

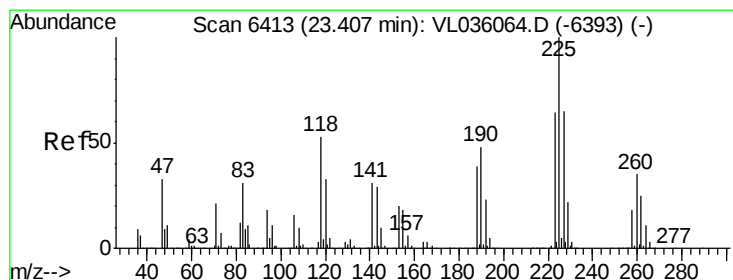
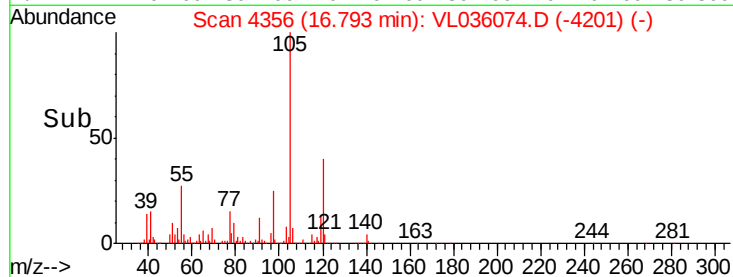
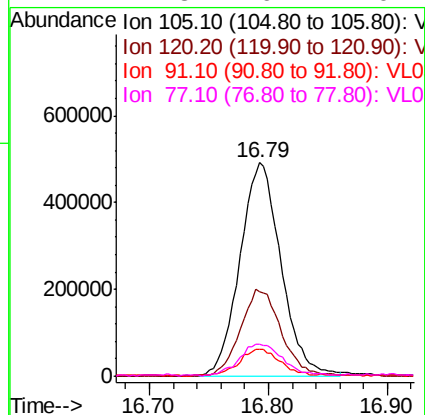
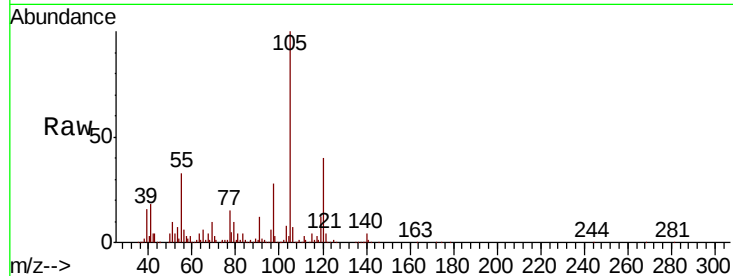




#74
 1,2,4-Trimethylbenzene
 Concen: 4.335 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL036074.D
 Acq: 7 Dec 2020 21:07

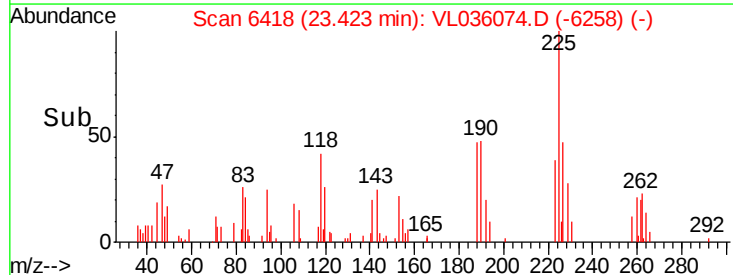
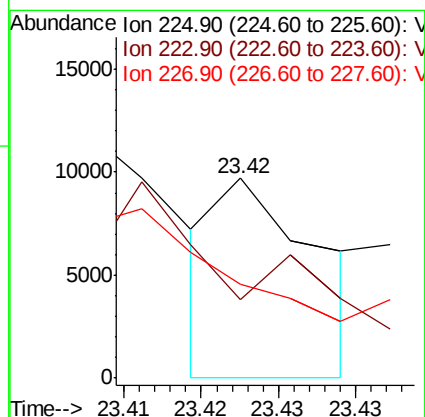
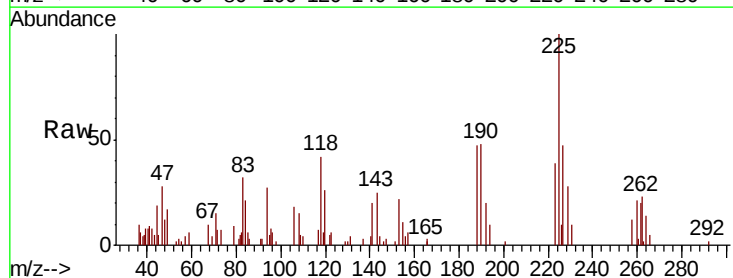
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

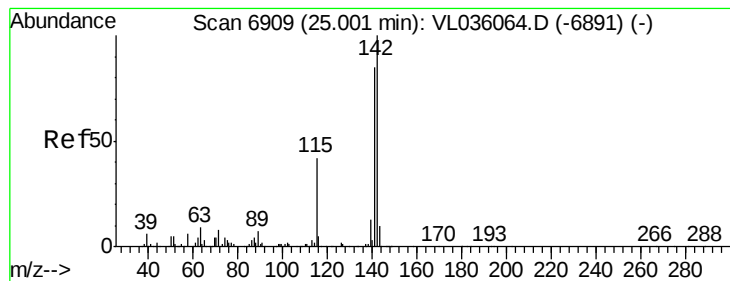
Tot Ion:	105	Resp:	1168248
Ion	Ratio	Lower	Upper
105	100		
120	39.9	37.4	56.0
91	12.0	45.6	68.4#
77	14.3	19.4	29.2#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.042 ppbv
 RT: 23.42 min Scan# 6418
 Delta R.T. 0.02 min
 Lab File: VL036074.D
 Acq: 7 Dec 2020 21:07

Tgt Ion:	225	Resp:	4355
Ion	Ratio	Lower	Upper
225	100		
223	0.0	51.1	76.7#
227	0.0	51.7	77.5#





#80

Naphthalene,2-methyl-

Concen: 0.061 ppbv

RT: 25.09 min Scan# 6937

Delta R.T. 0.09 min

Lab File: VL036074.D

Acq: 7 Dec 2020 21:07

Instrument :

MSVOA_L

ClientSampleId :

IA-3

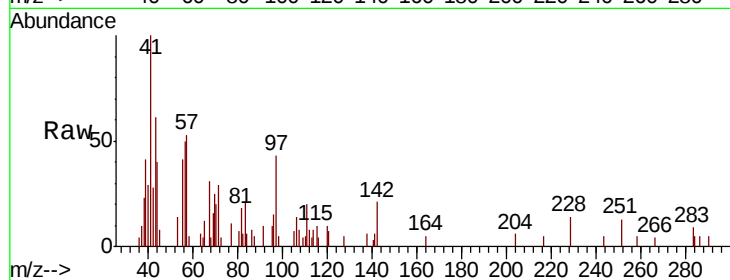
Tot Ion:142 Resp: 1871

Ion Ratio Lower Upper

142 100

141 69.7 64.3 96.5

115 52.3 33.9 50.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

