

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035451.D
 Acq On : 18 Aug 2020 21:06
 Operator : SY/AP
 Sample : L3725-03DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 02:45:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1126943	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5141010	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5098716	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3659822	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

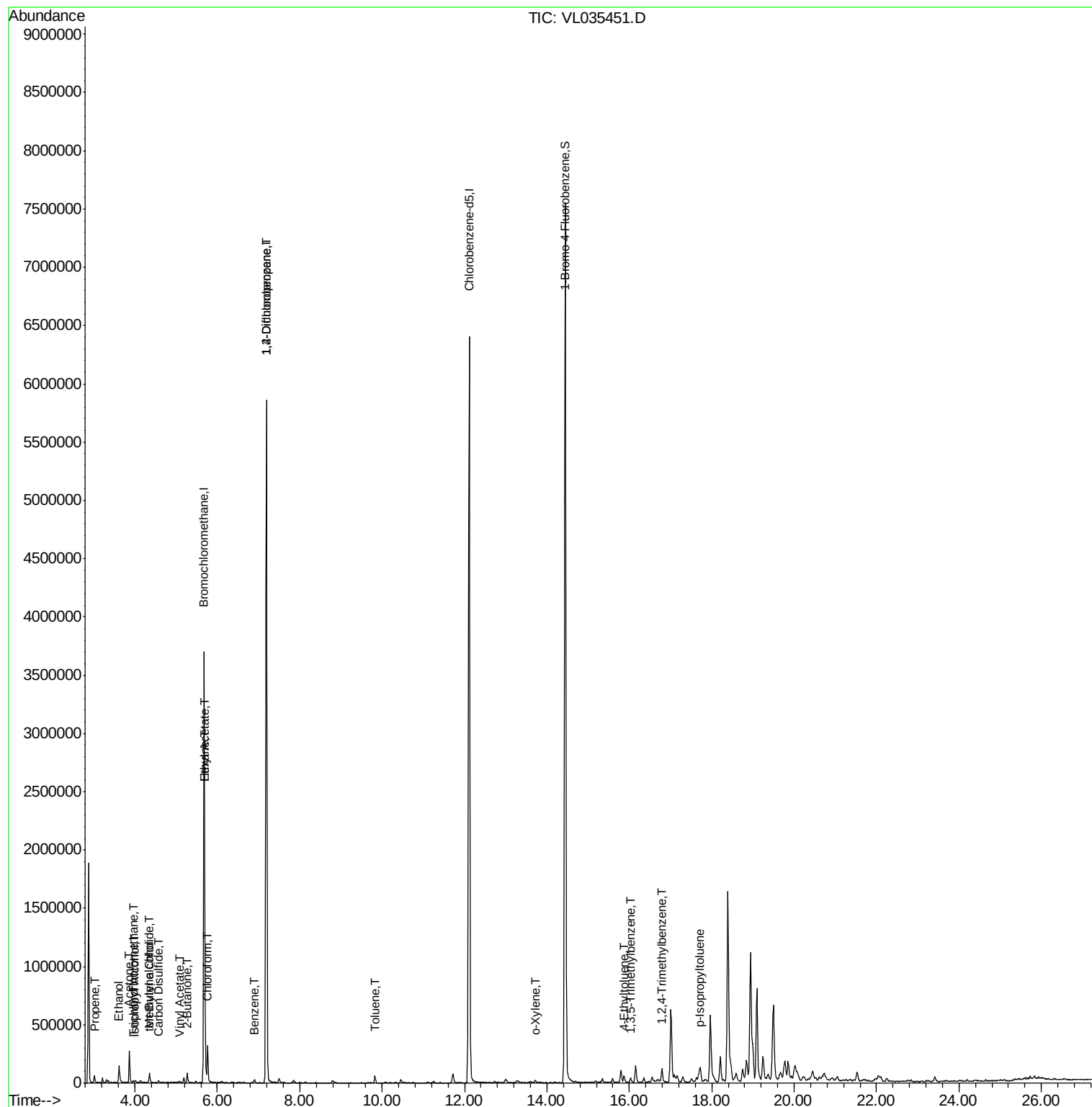
Target Compounds					Ovalue
9) Propene	3.02	41	25200	0.444 ppbv	94
11) Trichlorofluoromethane	3.96	101	12459	0.038 ppbv	85
13) Ethanol	3.61	45	170539	8.196 ppbv	99
15) Acetone	3.86	43	237700	1.833 ppbv #	78
17) tert-Butyl alcohol	4.33	59	6416	0.038 ppbv	97
19) Isopropyl Alcohol	3.99	45	3608	0.040 ppbv #	1
20) Methylene Chloride	4.35	84	36705	0.351 ppbv #	59
23) Vinyl Acetate	5.08	43	6003	0.032 ppbv #	81
25) Ethyl Acetate	5.70	43	8889	0.035 ppbv #	82
26) Hexane	5.70	57	14714	0.103 ppbv #	38
27) Carbon Disulfide	4.56	76	6210	0.030 ppbv #	88
29) Chloroform	5.76	83	213973	0.748 ppbv	98
34) 2-Butanone	5.27	43	84954	0.495 ppbv #	67
36) Benzene	6.90	78	20511	0.054 ppbv #	78
39) 1,2-Dichloropropane	7.19	63	900909	7.244 ppbv #	23
53) Toluene	9.83	91	48590	0.100 ppbv	98
60) o-Xylene	13.72	91	15334	0.030 ppbv	82
69) p-Isopropyltoluene	17.69	119	50714	0.054 ppbv #	90
72) 4-Ethyltoluene	15.87	105	49521	0.075 ppbv #	93
73) 1,3,5-Trimethylbenzene	16.03	105	30944	0.050 ppbv	91
74) 1,2,4-Trimethylbenzene	16.79	105	86383	0.129 ppbv #	65

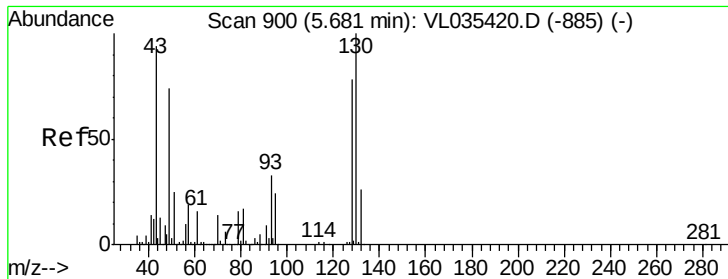
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

ClientSampled :

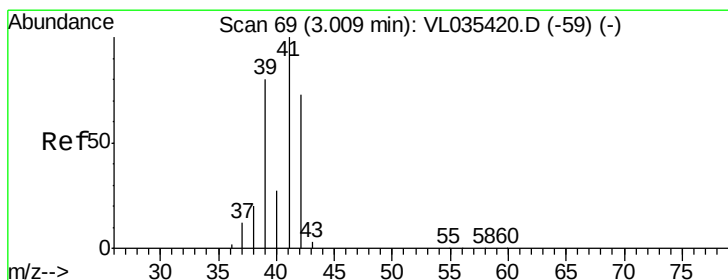
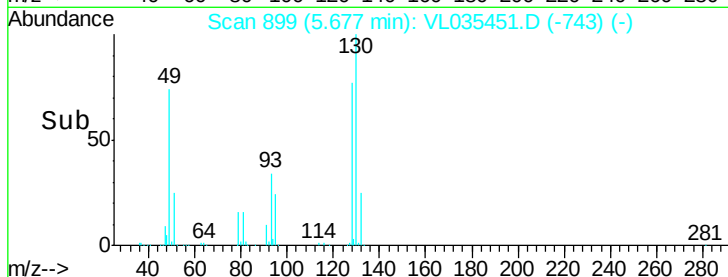
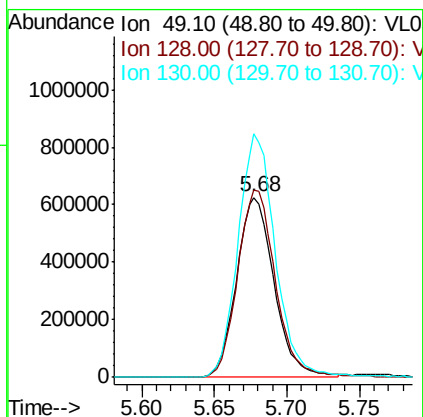
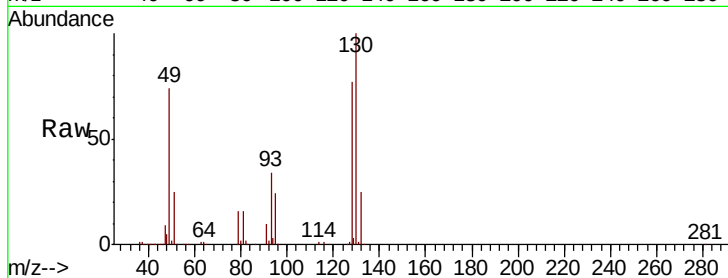
Tot Ion: 49 Resp: 1126943

Ion Ratio Lower Upper

49 100

128 105.9 20.9 62.7#

130 135.9 26.7 80.1#



#9

Propene

Concen: 0.444 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035451.D

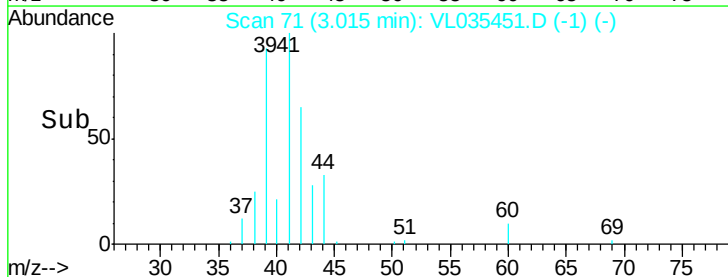
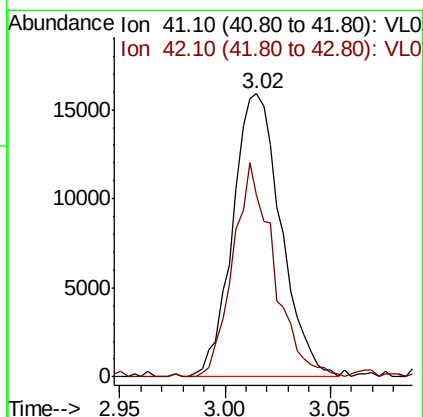
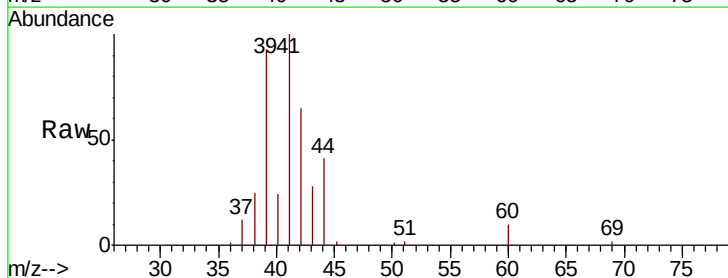
Acq: 18 Aug 2020 21:06

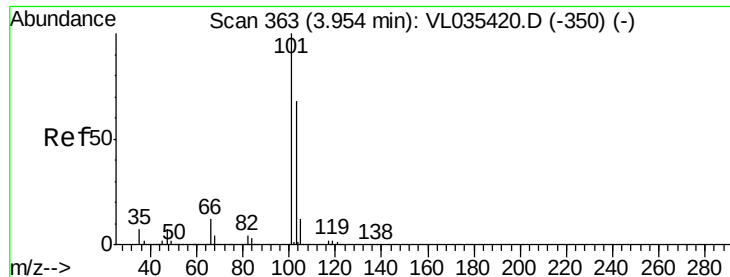
Tgt Ion: 41 Resp: 25200

Ion Ratio Lower Upper

41 100

42 64.7 55.5 83.3





#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

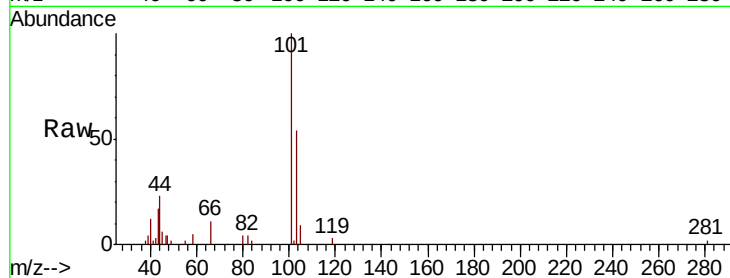
ClientSampleId :

Tot Ion:101 Resp: 12459

Ion Ratio Lower Upper

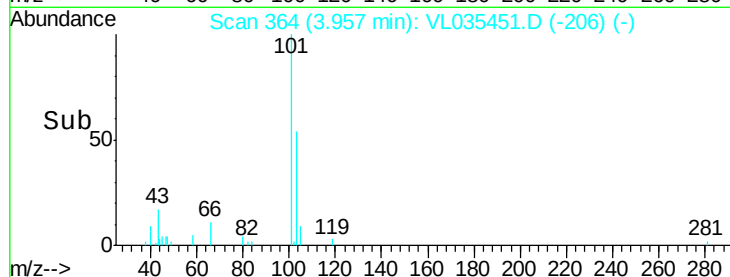
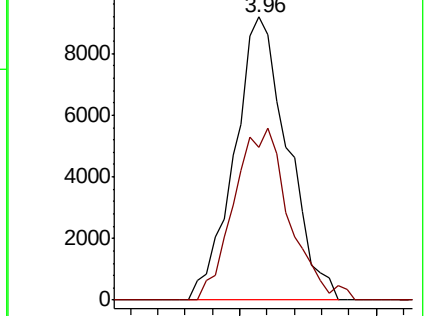
101 100

103 54.2 52.6 78.8

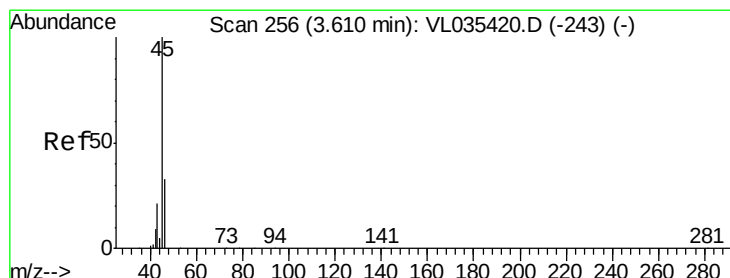


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#13

Ethanol

Concen: 8.196 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL035451.D

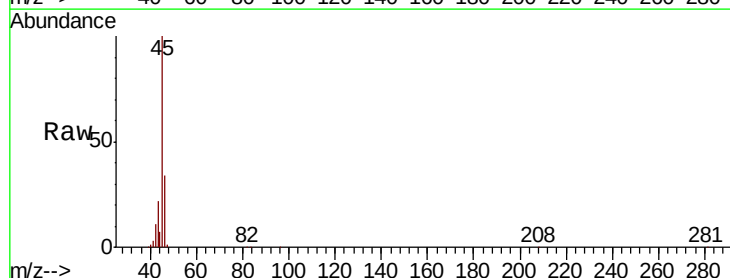
Acq: 18 Aug 2020 21:06

Tgt Ion: 45 Resp: 170539

Ion Ratio Lower Upper

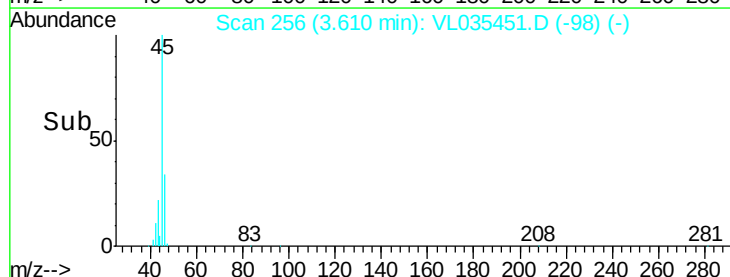
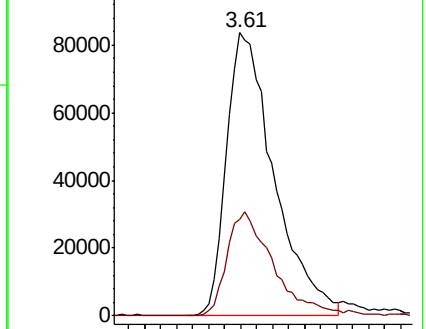
45 100

46 36.1 14.2 56.6

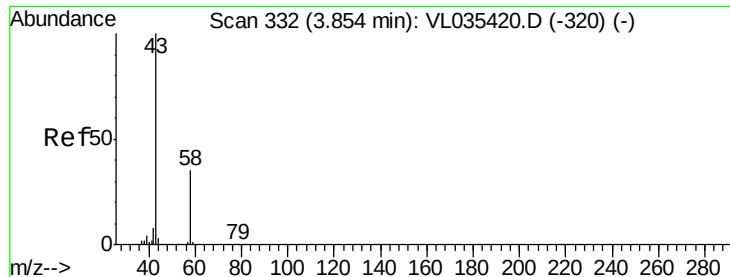


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



Time-->



#15

Acetone

Concen: 1.833 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.02 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

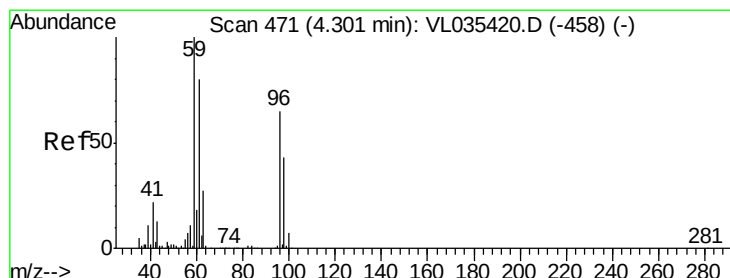
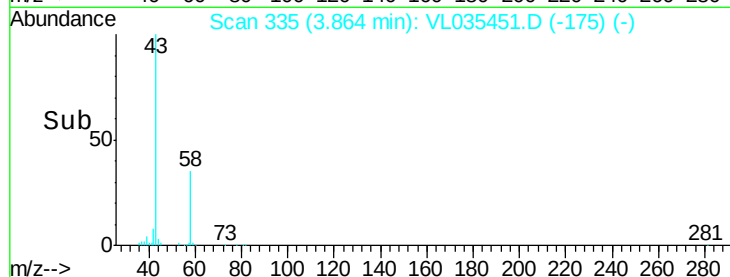
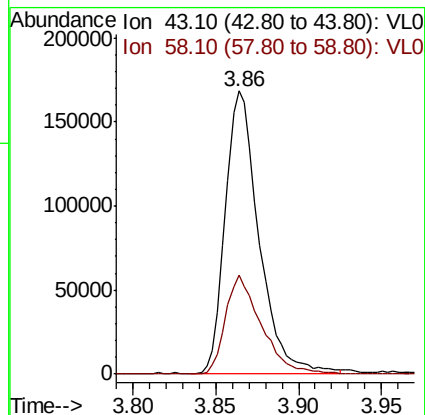
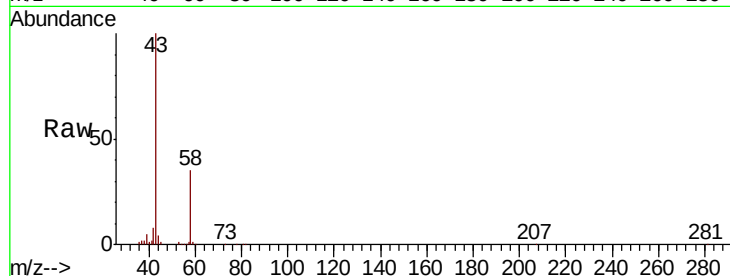
ClientSampleId :

Tot Ion: 43 Resp: 237700

Ion Ratio Lower Upper

43 100

58 37.4 21.0 31.6#



#17

tert-Butyl alcohol

Concen: 0.038 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.04 min

Lab File: VL035451.D

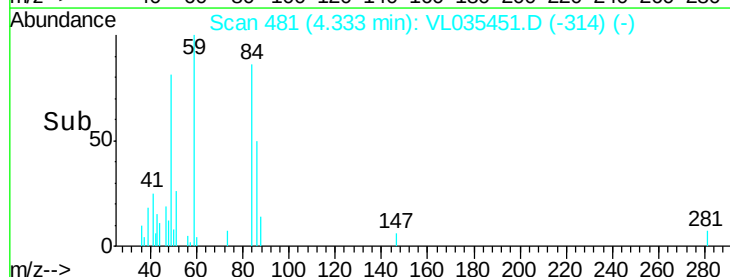
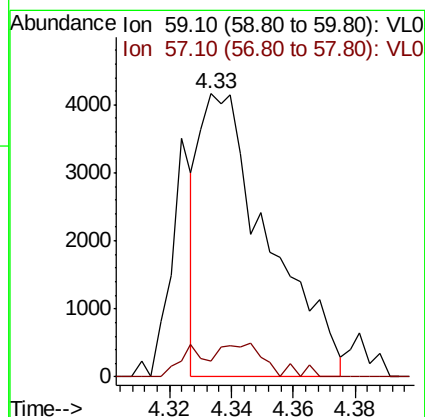
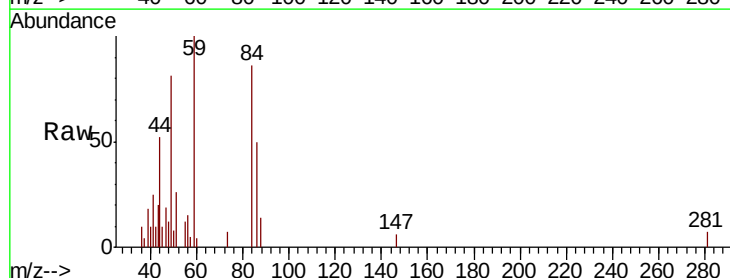
Acq: 18 Aug 2020 21:06

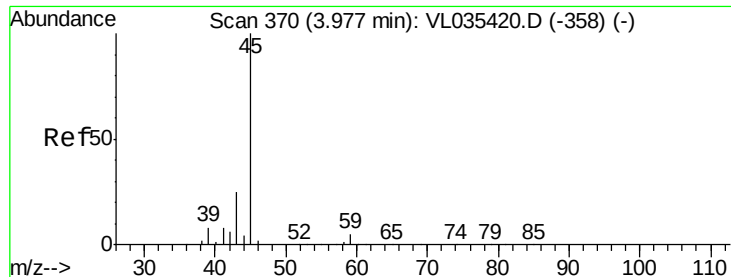
Tgt Ion: 59 Resp: 6416

Ion Ratio Lower Upper

59 100

57 12.3 8.9 13.3





#19

Isopropyl Alcohol

Concen: 0.040 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

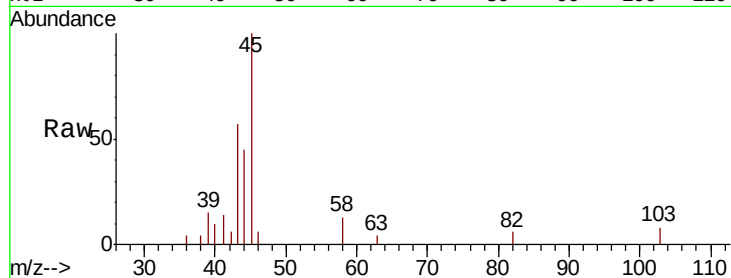
ClientSampled :

Tot Ion: 45 Resp: 3608

Ion Ratio Lower Upper

45 100

58 2468.0 1.0 1.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

4000

3000

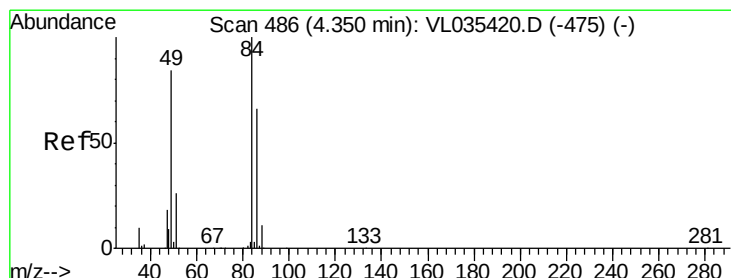
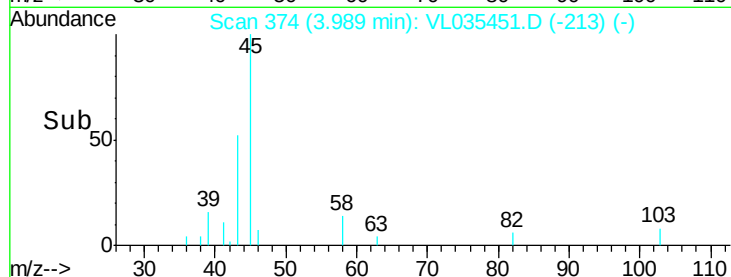
2000

1000

0

Time-->

3.96 3.97 3.98 3.99 4.00



#20

Methylene Chloride

Concen: 0.351 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Tgt Ion: 84 Resp: 36705

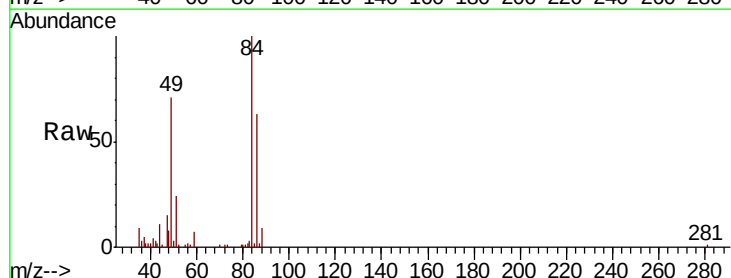
Ion Ratio Lower Upper

84 100

49 70.9 118.6 177.8#

51 23.6 36.4 54.6#

86 63.0 50.2 75.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.35

30000

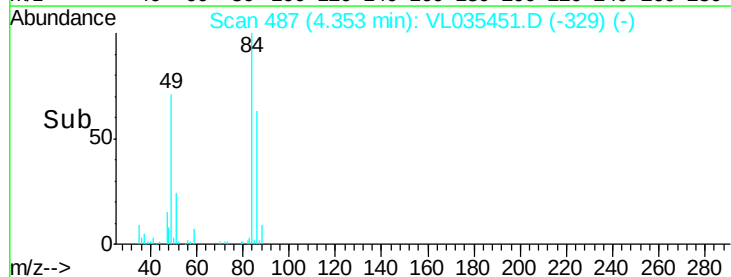
20000

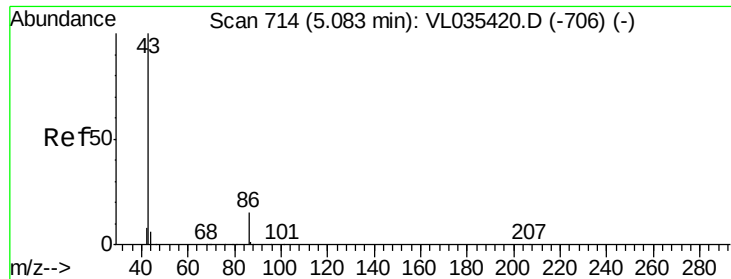
10000

0

Time-->

4.30 4.35 4.40





#23

Vinyl Acetate

Concen: 0.032 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.00 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 6003

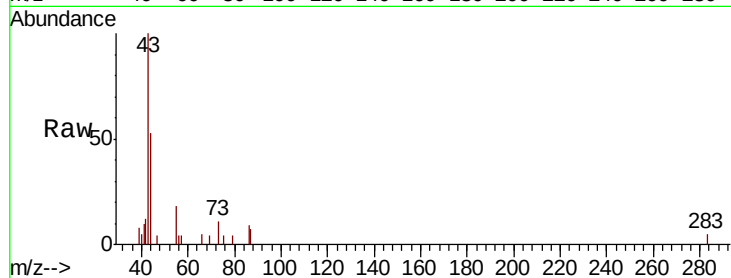
Ion Ratio Lower Upper

43 100

86 10.6 6.5 9.7#

42 7.4 8.3 12.5#

44 24.9 4.0 6.0#

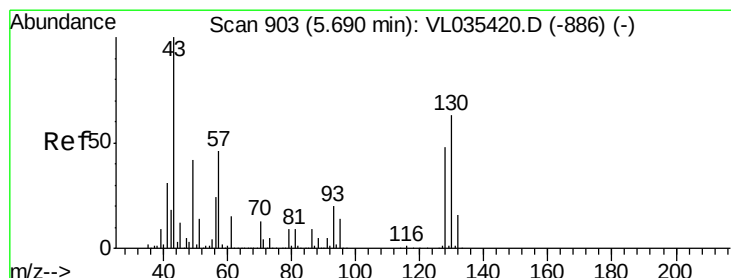
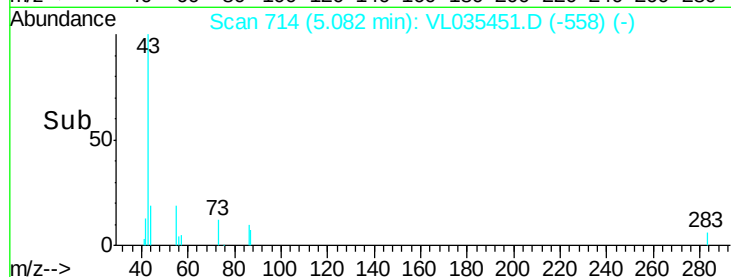
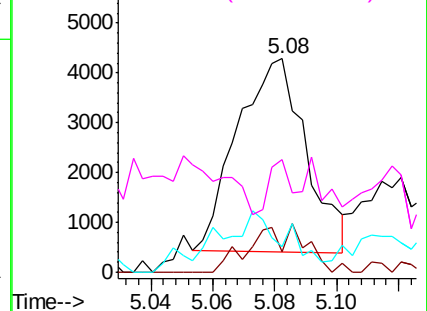


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.035 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Tgt Ion: 43 Resp: 8889

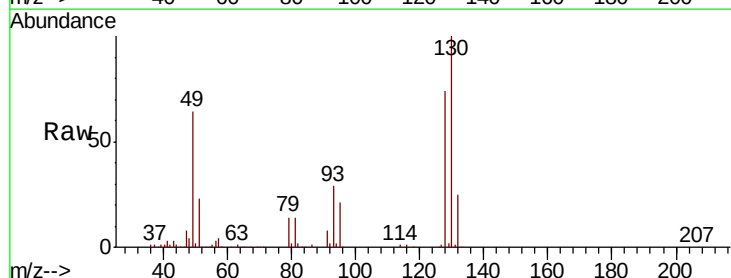
Ion Ratio Lower Upper

43 100

45 2.6 8.3 12.5#

61 2.1 7.6 11.4#

70 3.9 6.0 9.0#

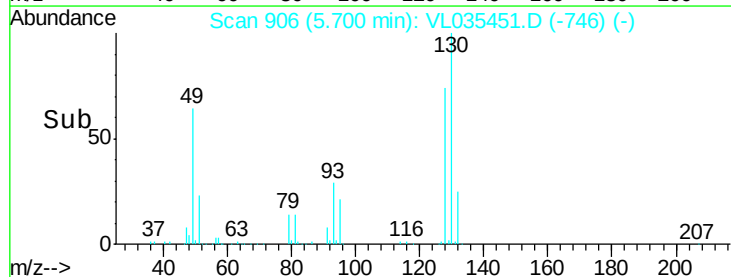
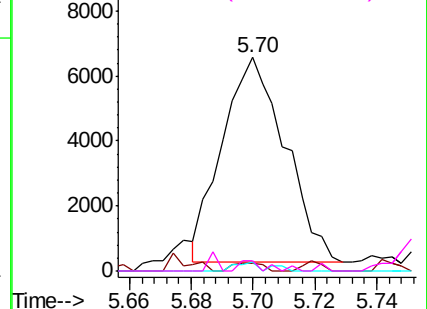


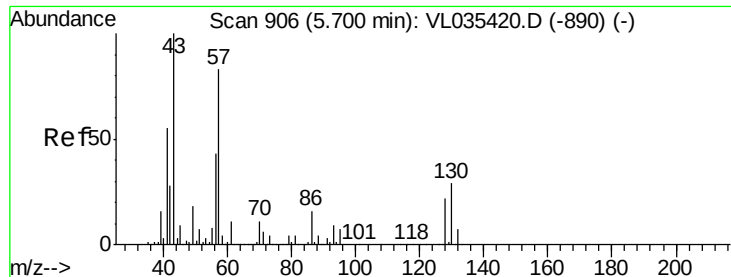
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.103 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

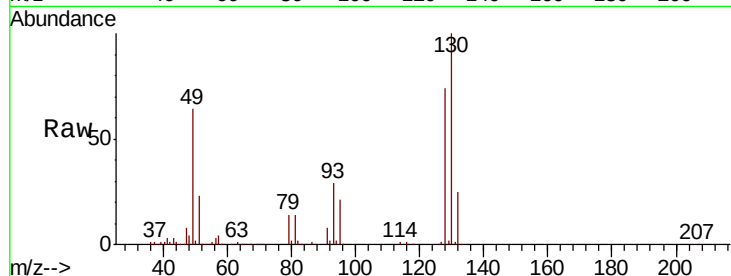
Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

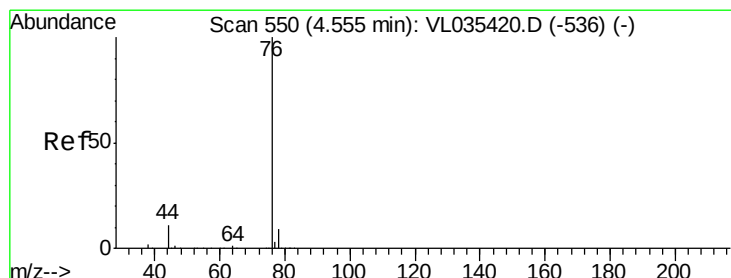
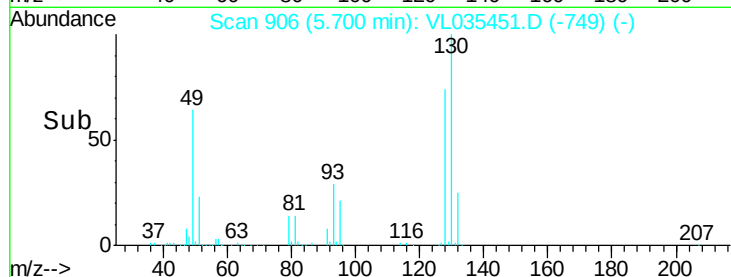
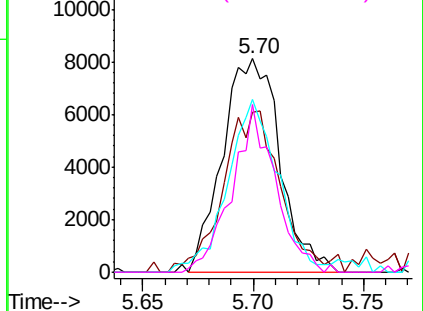
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 14714

Ion	Ratio	Lower	Upper
57	100		
41	76.9	75.5	113.3
43	74.1	181.7	272.5#
56	59.2	42.4	63.6



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: 0.030 ppbv

RT: 4.56 min Scan# 552

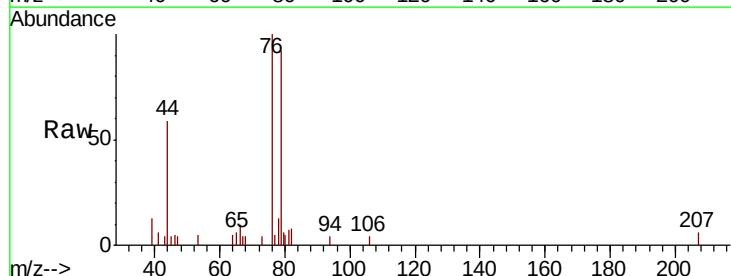
Delta R.T. 0.01 min

Lab File: VL035451.D

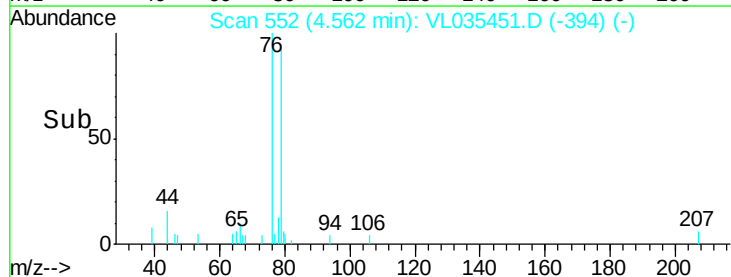
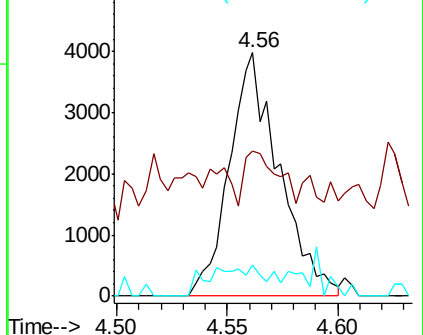
Acq: 18 Aug 2020 21:06

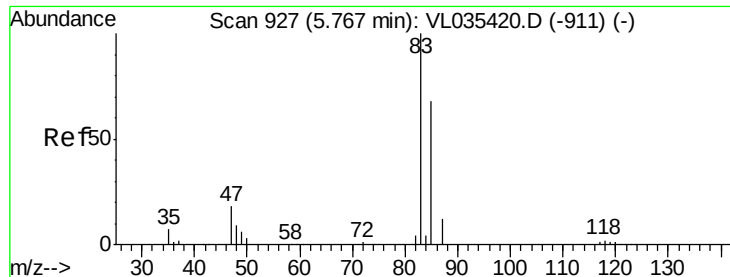
Tgt Ion: 76 Resp: 6210

Ion	Ratio	Lower	Upper
76	100		
44	18.1	16.8	25.2
78	0.0	7.3	10.9#



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

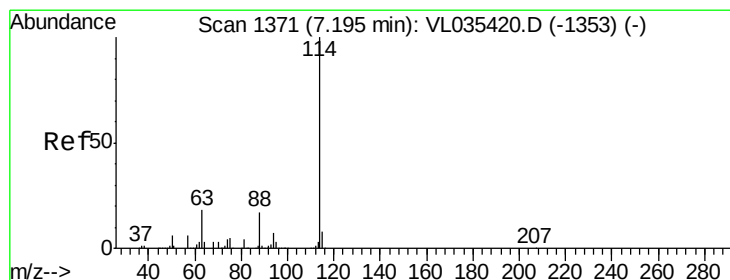
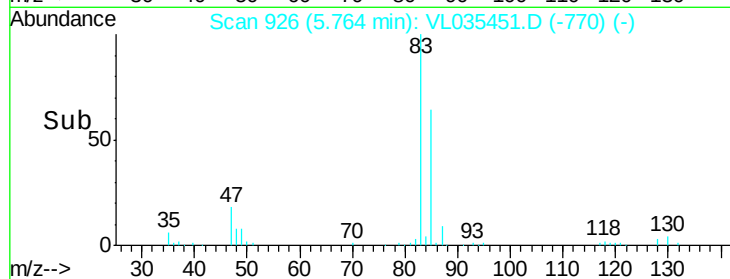
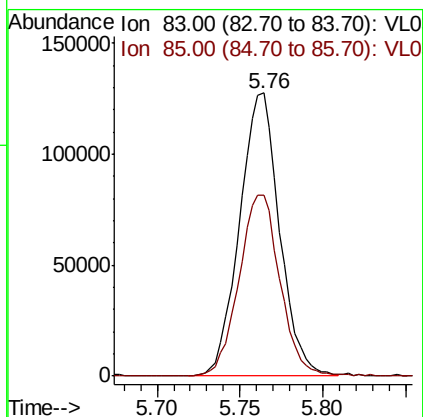
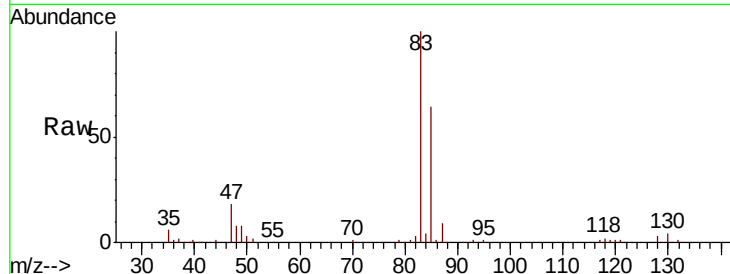




#29
Chloroform
Concen: 0.748 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL035451.D
Acq: 18 Aug 2020 21:06

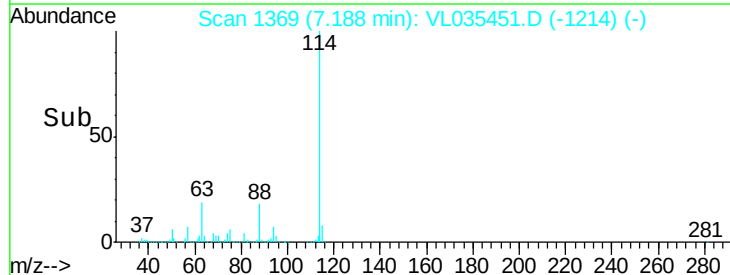
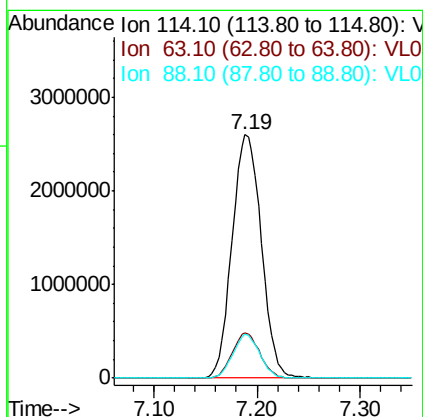
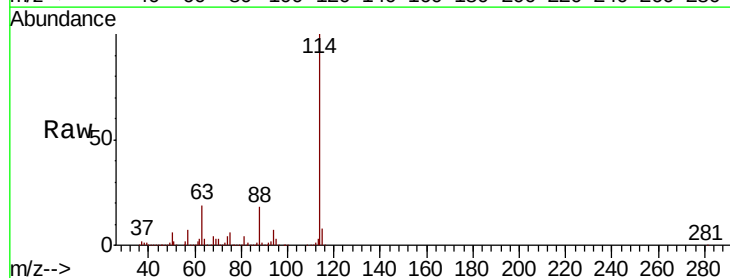
Instrument :
MSVOA_L
ClientSampleId :

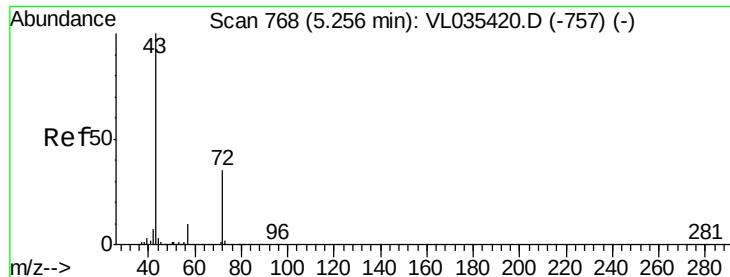
Tot Ion: 83 Resp: 213973
Ion Ratio Lower Upper
83 100
85 64.0 52.7 79.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VL035451.D
Acq: 18 Aug 2020 21:06

Tgt Ion: 114 Resp: 5141010
Ion Ratio Lower Upper
114 100
63 17.6 23.1 34.7#
88 16.6 15.9 23.9

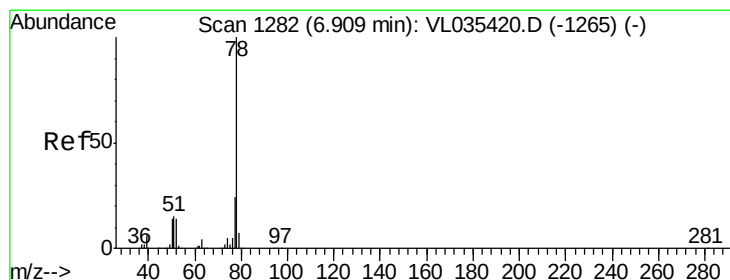
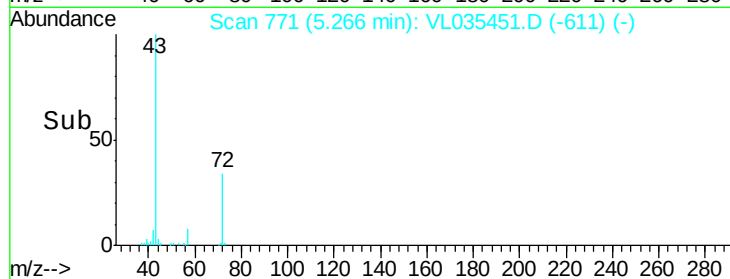
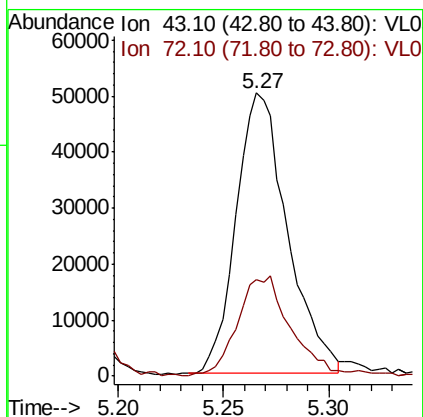
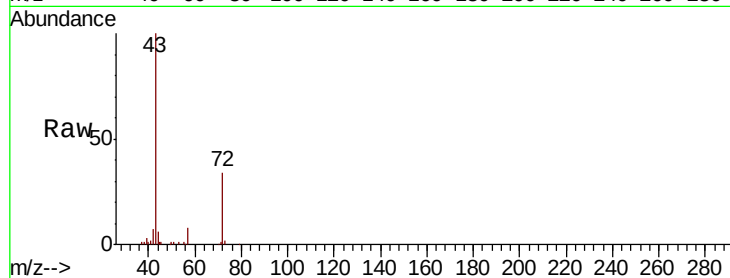




#34
 2-Butanone
 Concen: 0.495 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL035451.D
 Acq: 18 Aug 2020 21:06

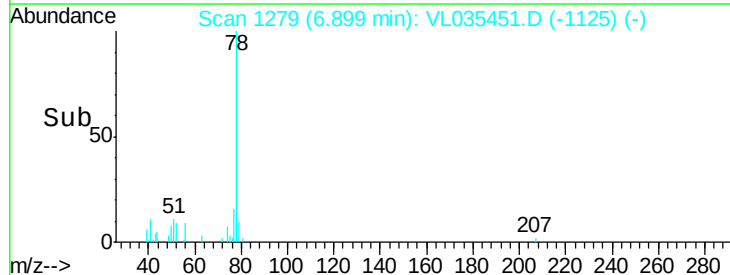
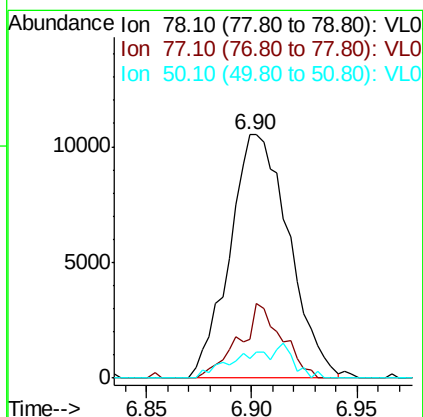
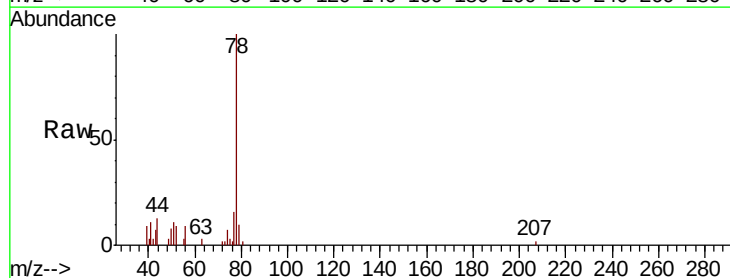
Instrument :
 MSVOA_L
 ClientSampleId :

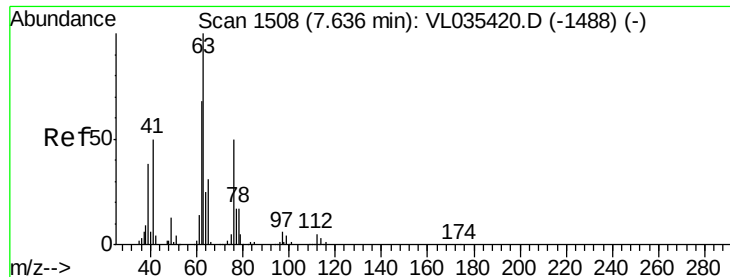
Tot Ion: 43 Resp: 84954
 Ion Ratio Lower Upper
 43 100
 72 37.8 17.6 26.4#



#36
 Benzene
 Concen: 0.054 ppbv
 RT: 6.90 min Scan# 1279
 Delta R.T. -0.00 min
 Lab File: VL035451.D
 Acq: 18 Aug 2020 21:06

Tgt Ion: 78 Resp: 20511
 Ion Ratio Lower Upper
 78 100
 77 16.1 19.6 29.4#
 50 7.9 16.3 24.5#





#39

1,2-Dichloropropane

Concen: 7.244 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

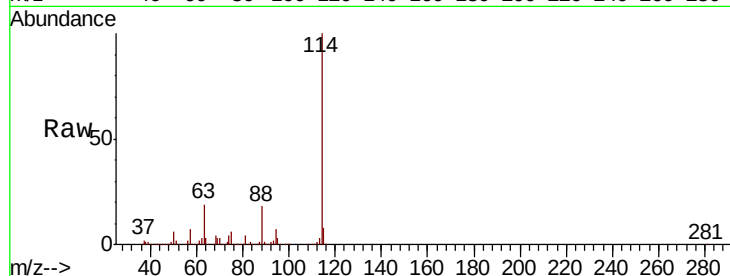
Tot Ion: 63 Resp: 900909

Ion Ratio Lower Upper

63 100

41 0.1 61.1 91.7#

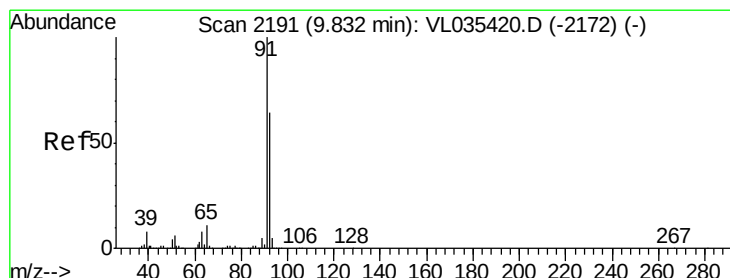
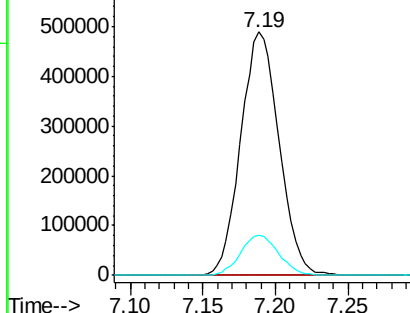
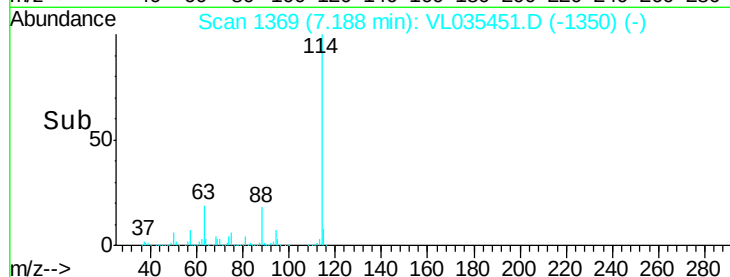
62 16.5 55.3 82.9#



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



#53

Toluene

Concen: 0.100 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL035451.D

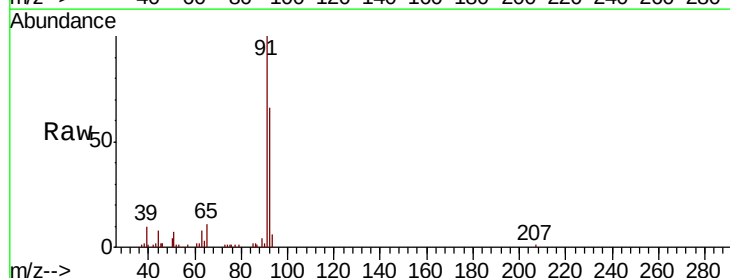
Acq: 18 Aug 2020 21:06

Tgt Ion: 91 Resp: 48590

Ion Ratio Lower Upper

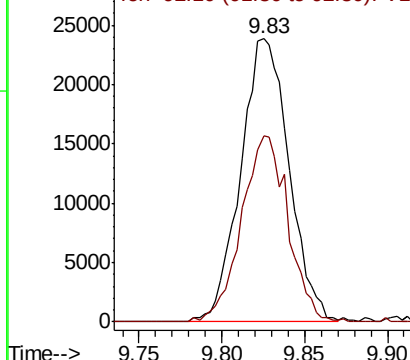
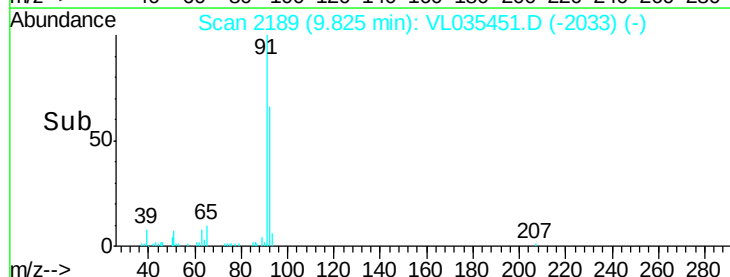
91 100

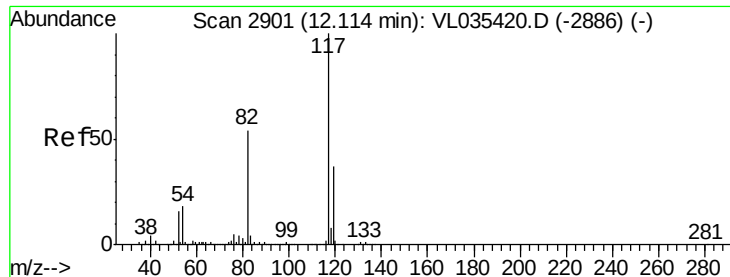
92 63.0 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

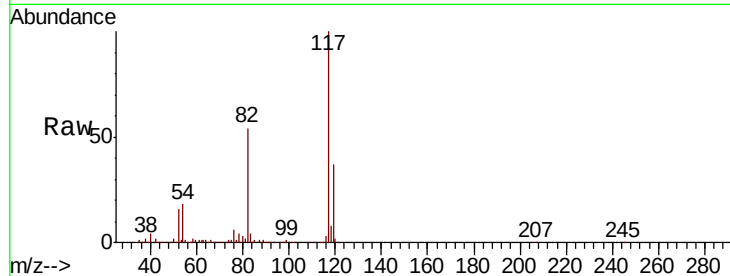




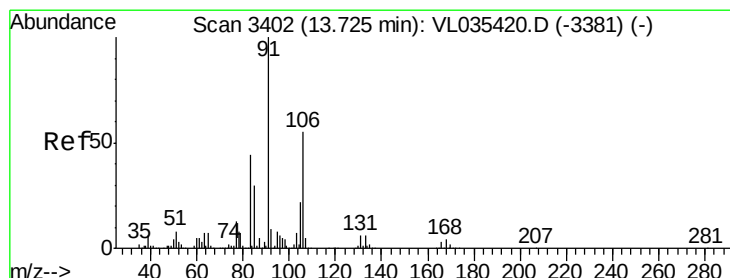
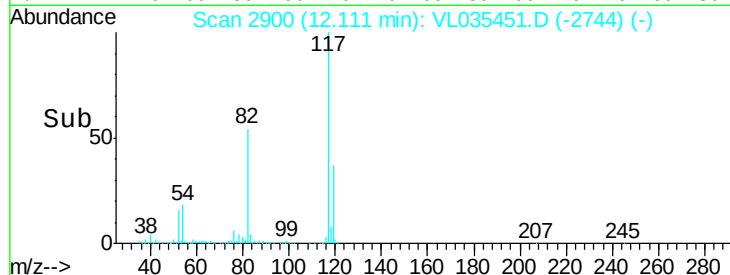
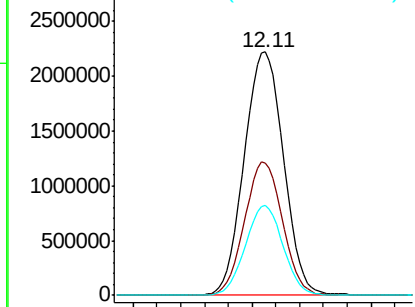
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL035451.D
Acq: 18 Aug 2020 21:06

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 5098716
Ion Ratio Lower Upper
117 100
82 53.3 57.4 86.0#
119 35.5 28.4 42.6

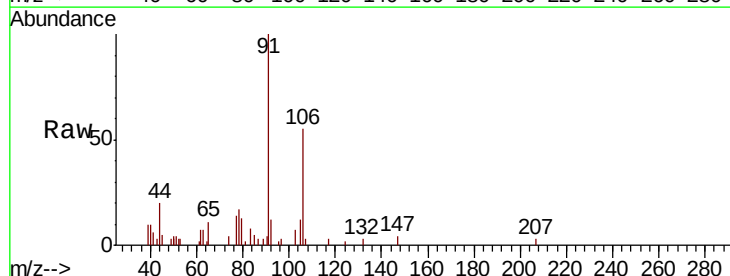


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

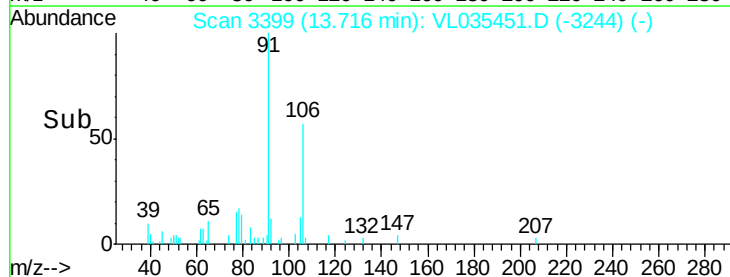
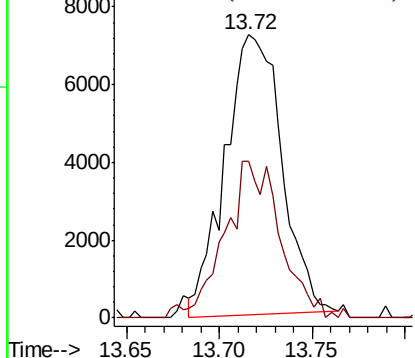


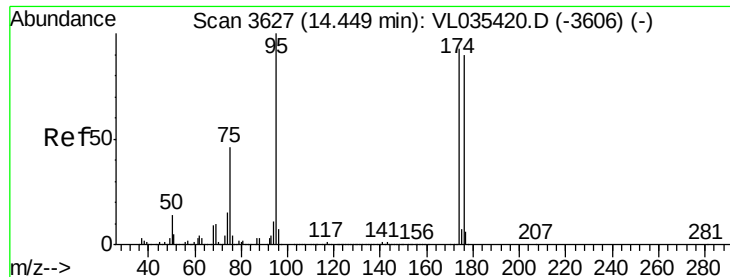
#60
o-Xylene
Concen: 0.030 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.00 min
Lab File: VL035451.D
Acq: 18 Aug 2020 21:06

Tgt Ion: 91 Resp: 15334
Ion Ratio Lower Upper
91 100
106 55.1 21.8 65.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.253 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.00 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

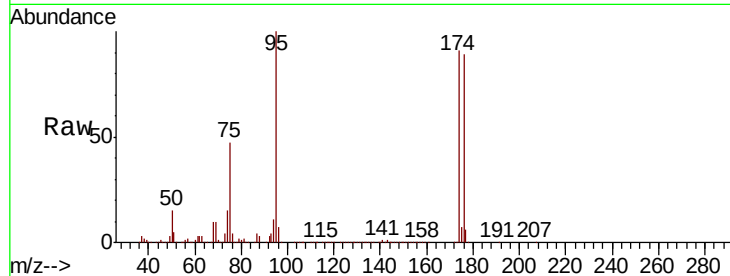
Tot Ion: 95 Resp: 3659822

Ion Ratio Lower Upper

95 100

174 93.4 44.0 66.0#

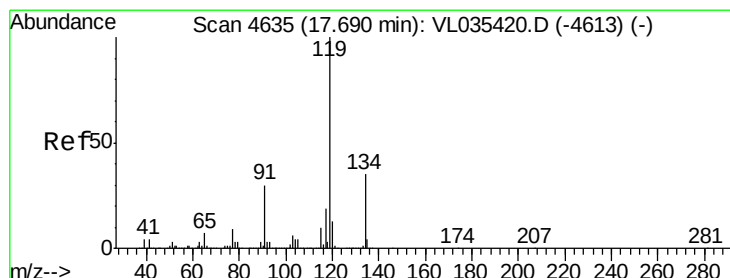
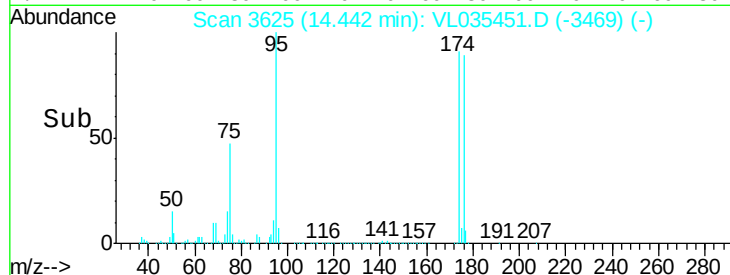
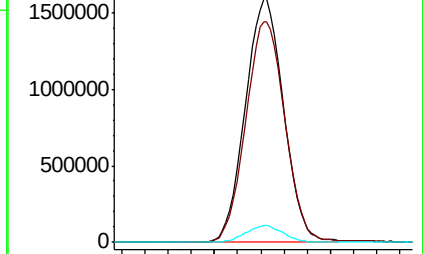
175 6.8 3.2 4.8#



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



#69

p-Isopropyltoluene

Concen: 0.054 ppbv

RT: 17.69 min Scan# 4634

Delta R.T. 0.01 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

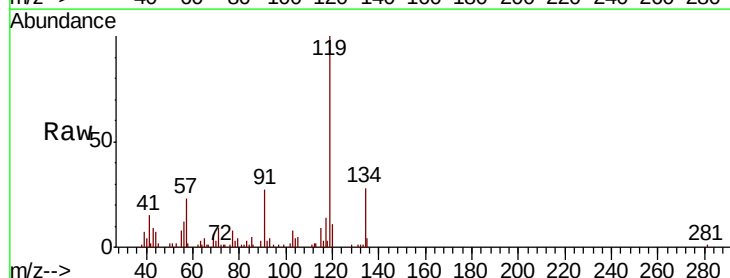
Tgt Ion: 119 Resp: 50714

Ion Ratio Lower Upper

119 100

134 31.7 20.6 30.8#

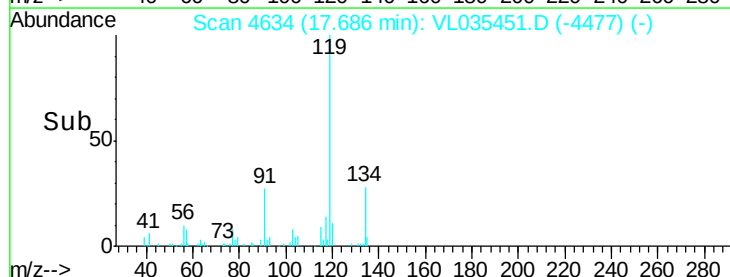
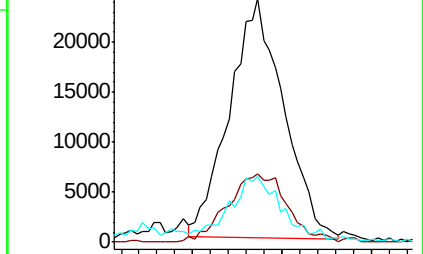
91 28.8 26.6 39.8

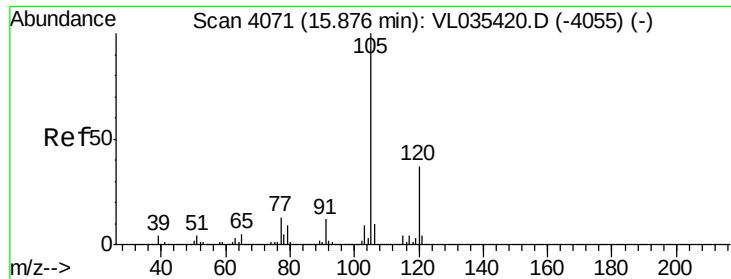


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#72

4-Ethyltoluene

Concen: 0.075 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. 0.00 min

Lab File: VL035451.D

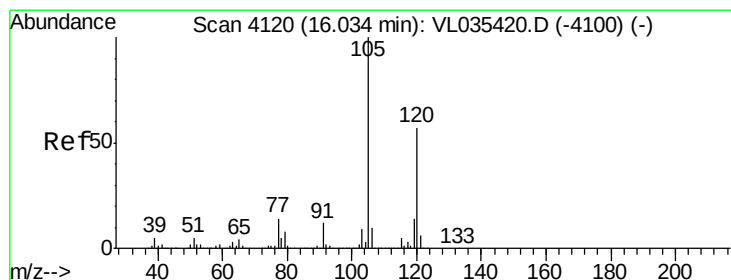
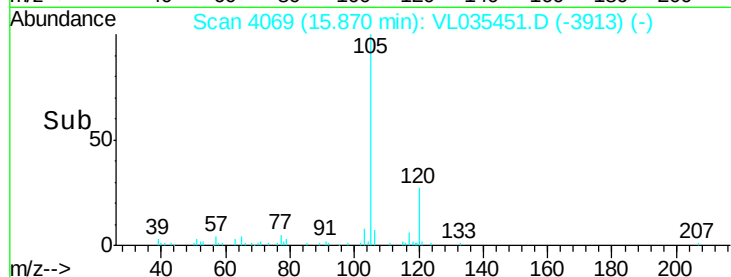
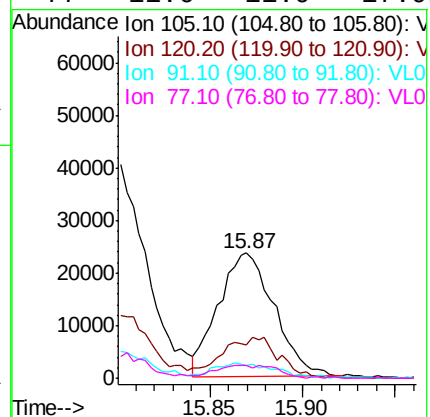
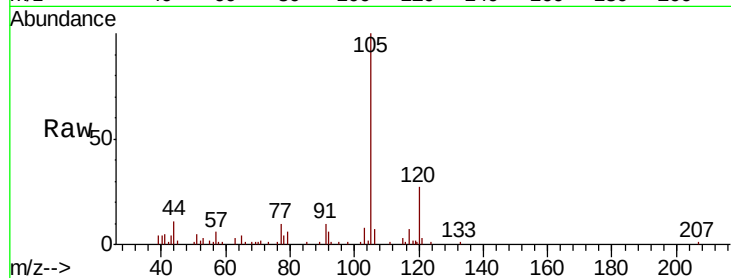
Acq: 18 Aug 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	49521
Ion Ratio	Lower	Upper
105	100	
120	33.4	22.7 34.1
91	14.3	10.8 16.2
77	11.6	11.9 17.9



#73

1,3,5-Trimethylbenzene

Concen: 0.050 ppbv

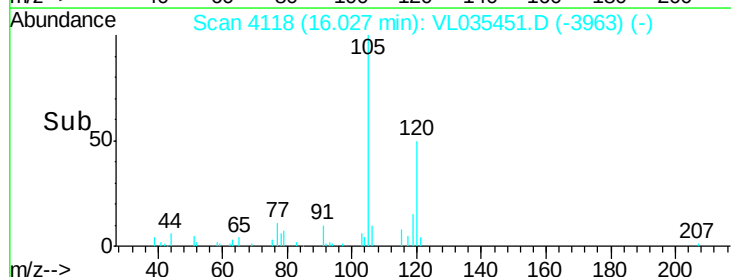
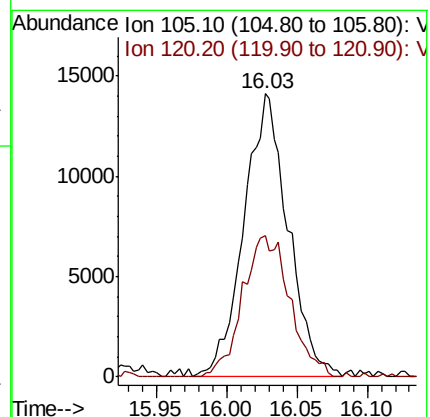
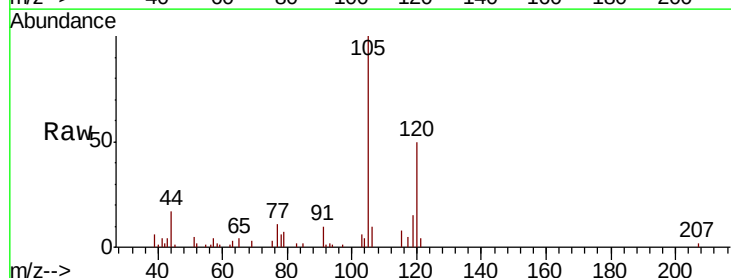
RT: 16.03 min Scan# 4118

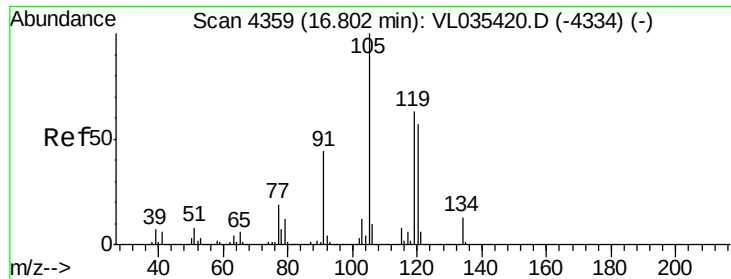
Delta R.T. -0.00 min

Lab File: VL035451.D

Acq: 18 Aug 2020 21:06

Tgt Ion:105	Resp:	30944
Ion Ratio	Lower	Upper
105	100	
120	50.1	35.6 53.4

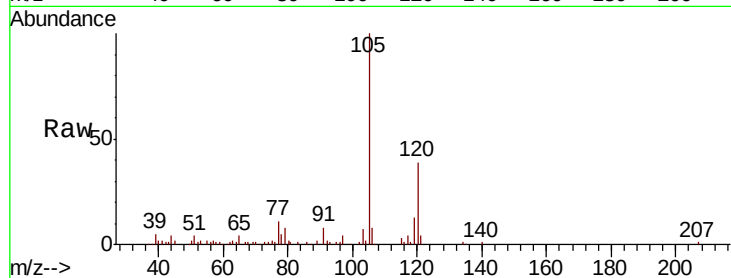




#74
 1,2,4-Trimethylbenzene
 Concen: 0.129 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL035451.D
 Acq: 18 Aug 2020 21:06

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	86383
Ion	Ratio	Lower	Upper
105	100		
120	39.0	37.8	56.8
91	8.2	40.0	60.0#
77	11.1	18.8	28.2#



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

