

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035448.D
 Acq On : 18 Aug 2020 19:11
 Operator : SY/AP
 Sample : L3725-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 02:44:15 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	1159000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5227066	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5165592	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3747859	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

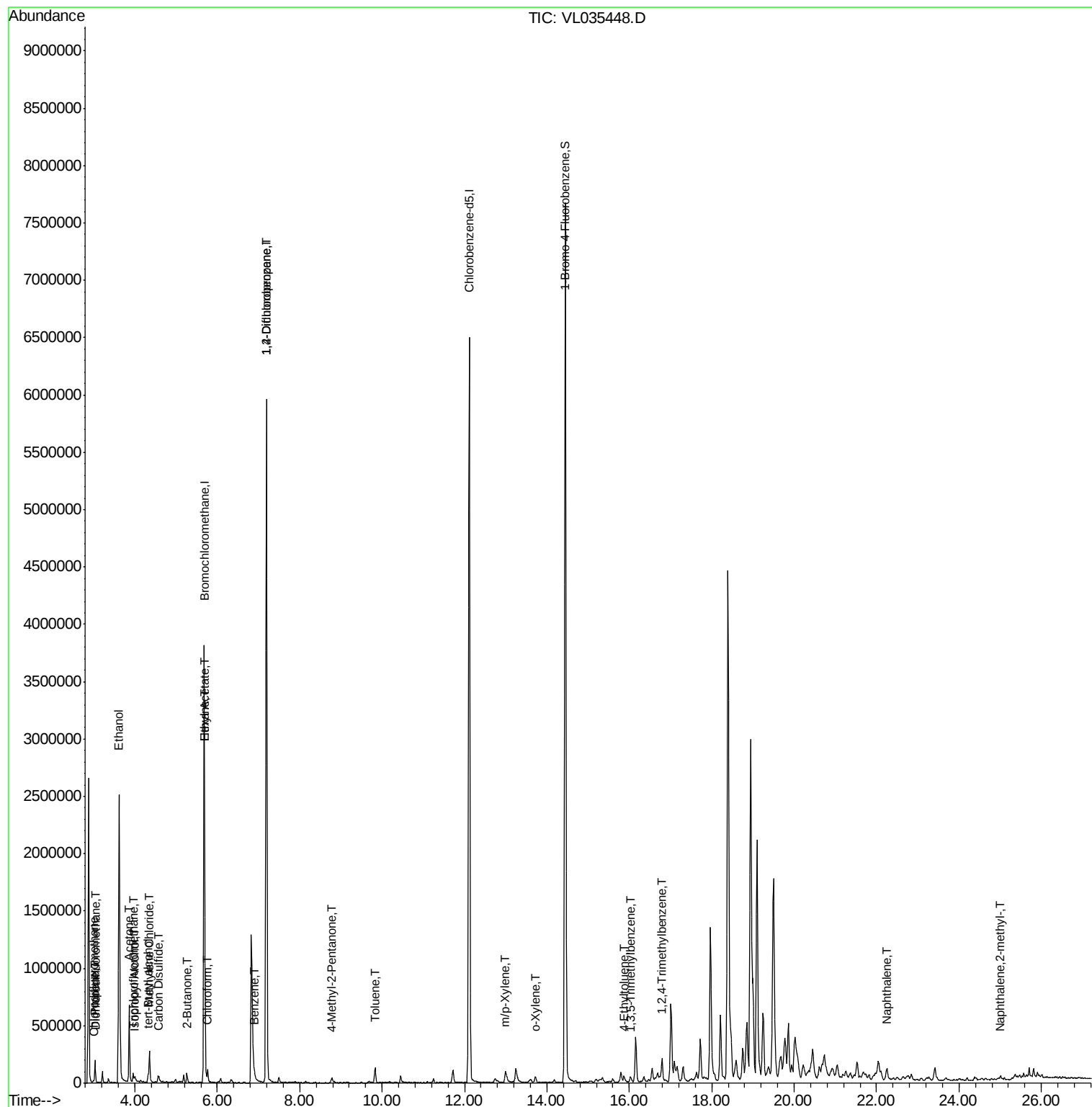
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	14034	0.065 ppbv	98
3) Chlorodifluoromethane	2.99	51	14847	0.102 ppbv	98
9) Propene	3.02	41	8668	0.148 ppbv #	69
11) Trichlorofluoromethane	3.96	101	48241	0.143 ppbv	99
13) Ethanol	3.61	45	3089955	144.389 ppbv	97
15) Acetone	3.86	43	575227	4.312 ppbv #	79
17) tert-Butyl alcohol	4.32	59	65999	0.383 ppbv	99
19) Isopropyl Alcohol	3.99	45	54184	0.589 ppbv #	1
20) Methylene Chloride	4.35	84	120534	1.120 ppbv #	64
25) Ethyl Acetate	5.70	43	29460	0.113 ppbv #	81
26) Hexane	5.70	57	55137	0.376 ppbv #	31
27) Carbon Disulfide	4.56	76	61705	0.291 ppbv #	89
29) Chloroform	5.77	83	66897	0.227 ppbv	91
34) 2-Butanone	5.26	43	76485	0.438 ppbv #	71
36) Benzene	6.91	78	13319	0.035 ppbv #	95
39) 1,2-Dichloropropane	7.19	63	924600	7.313 ppbv #	23
50) 4-Methyl-2-Pentanone	8.78	43	32428	0.129 ppbv #	75
53) Toluene	9.83	91	114055	0.231 ppbv	100
59) m/p-Xylene	13.00	91	108627	0.206 ppbv #	85
60) o-Xylene	13.73	91	16877	0.033 ppbv #	32
72) 4-Ethyltoluene	15.87	105	26304	0.039 ppbv #	65
73) 1,3,5-Trimethylbenzene	16.03	105	32320	0.052 ppbv #	71
74) 1,2,4-Trimethylbenzene	16.79	105	165261	0.243 ppbv #	69
79) Naphthalene	22.25	128	37398	0.039 ppbv	99
80) Naphthalene,2-methyl-	25.01	142	23160	0.059 ppbv	95

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

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QLast Update : Mon Aug 17 19:28:30 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL035448.D

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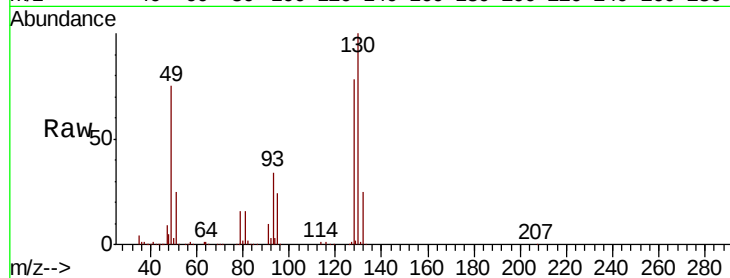
Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 49 Resp: 1159000

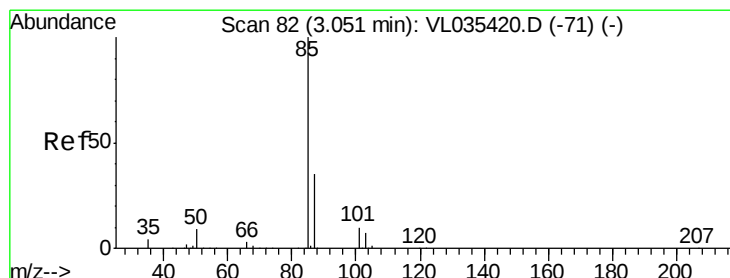
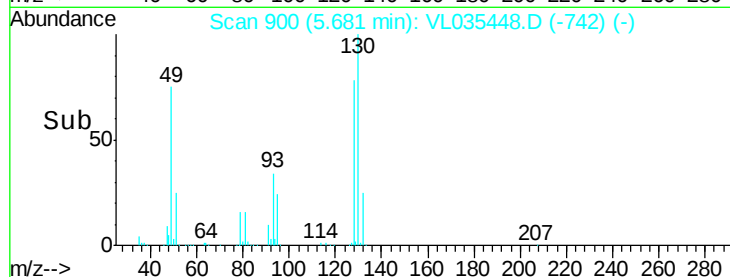
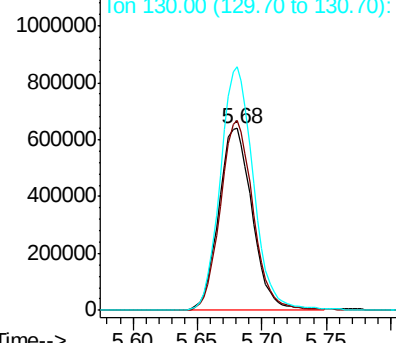
Ion	Ratio	Lower	Upper
49	100		
128	102.8	20.9	62.7#
130	132.8	26.7	80.1#



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



#2

Dichlorodifluoromethane

Concen: 0.065 ppbv

RT: 3.05 min Scan# 82

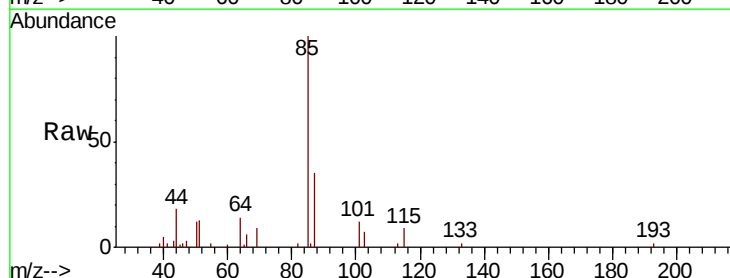
Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

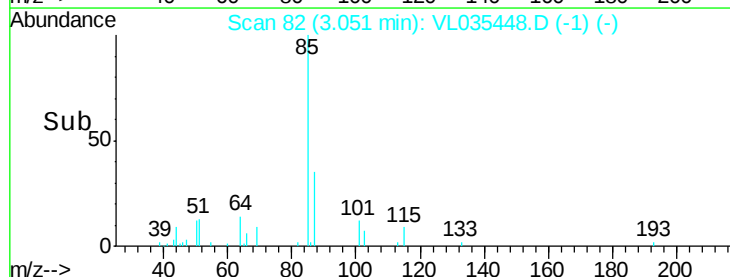
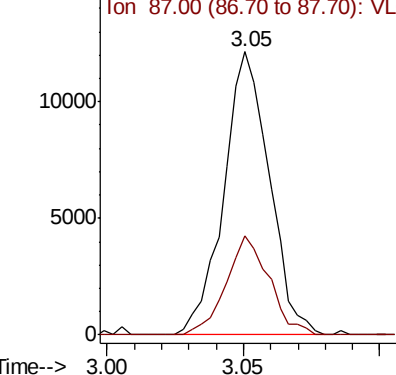
Tgt Ion: 85 Resp: 14034

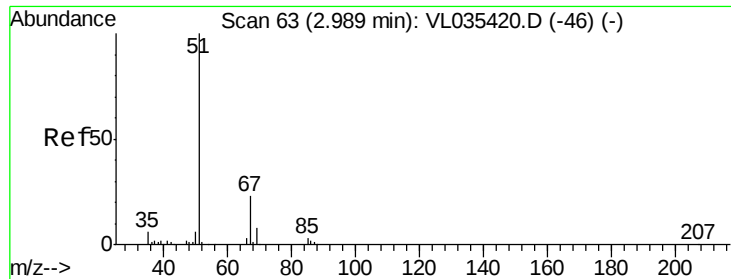
Ion	Ratio	Lower	Upper
85	100		
87	34.8	27.1	40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.102 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

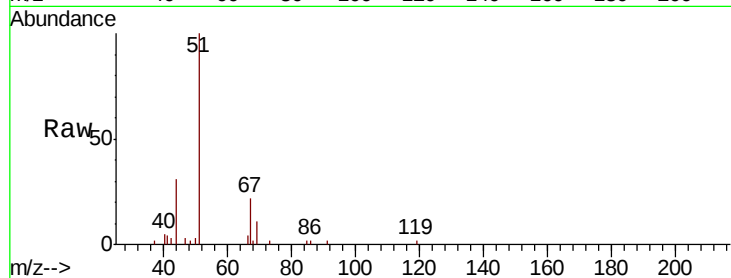
ClientSampleId :

Tot Ion: 51 Resp: 14847

Ion Ratio Lower Upper

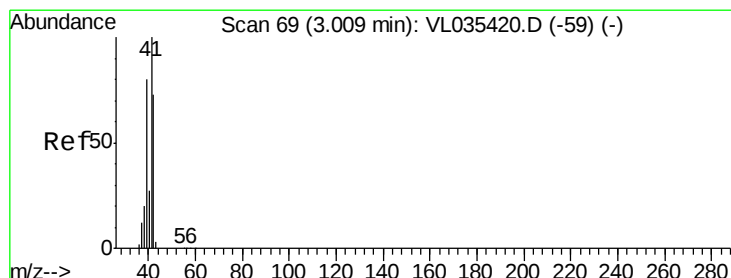
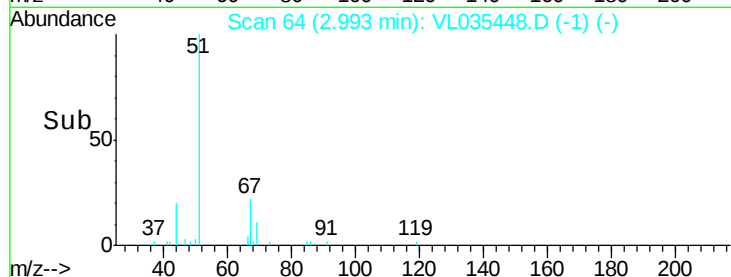
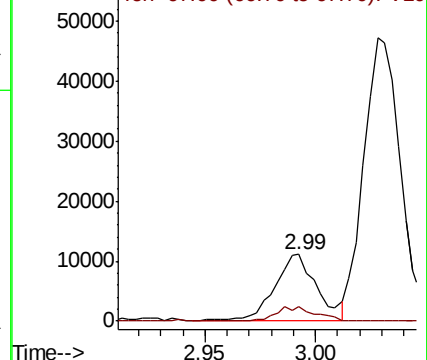
51 100

67 19.9 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.148 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL035448.D

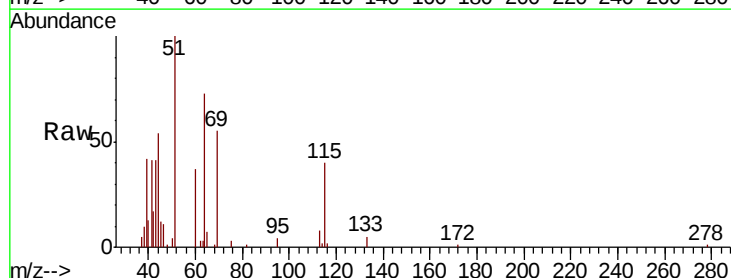
Acq: 18 Aug 2020 19:11

Tgt Ion: 41 Resp: 8668

Ion Ratio Lower Upper

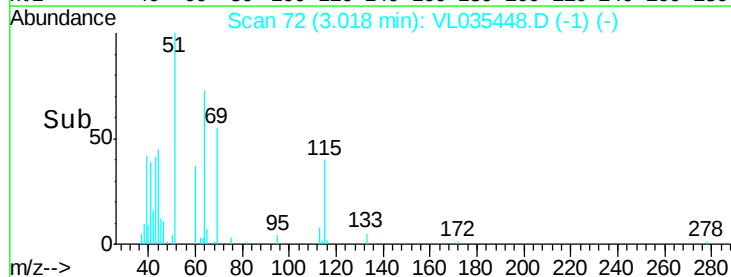
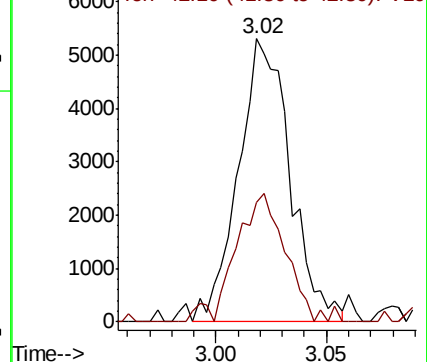
41 100

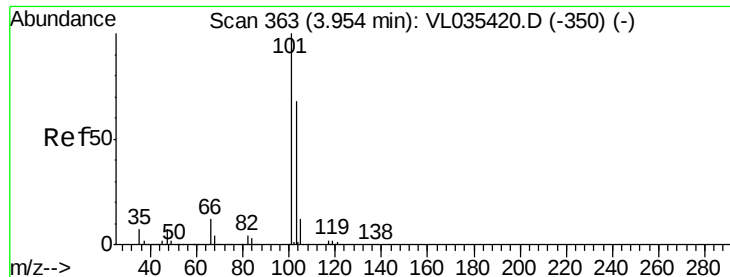
42 44.0 55.5 83.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

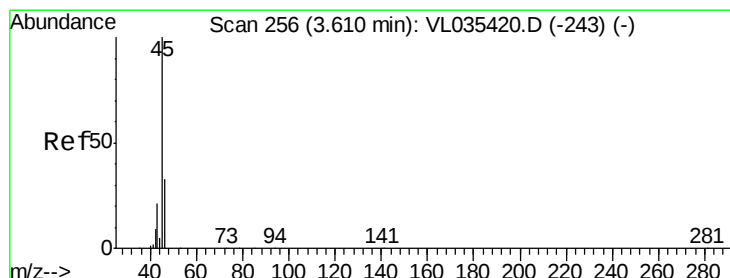
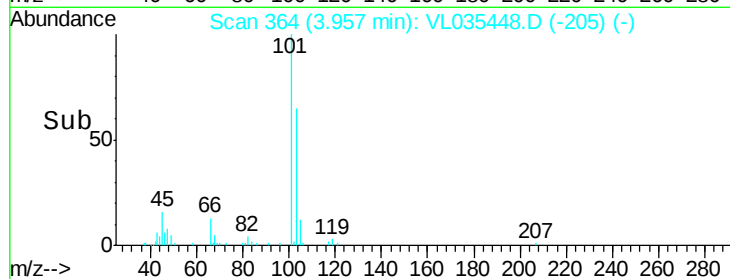
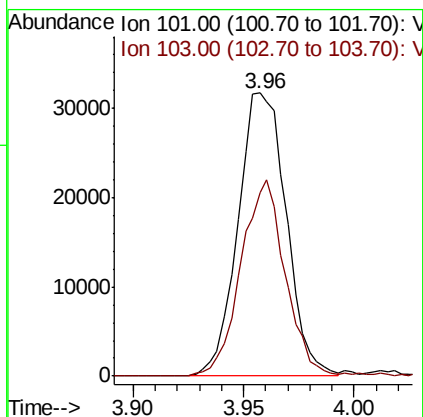
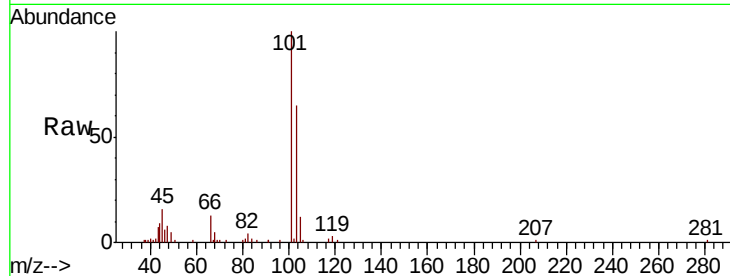




#11
 Trichlorofluoromethane
 Concen: 0.143 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VL035448.D
 Acq: 18 Aug 2020 19:11

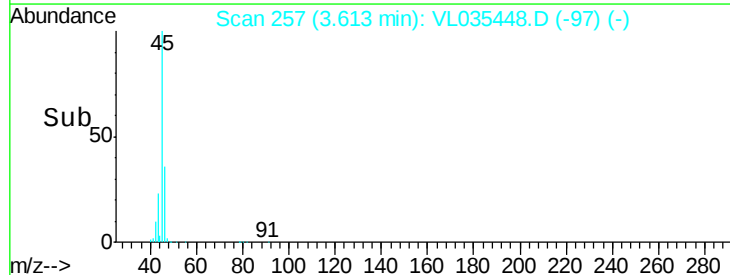
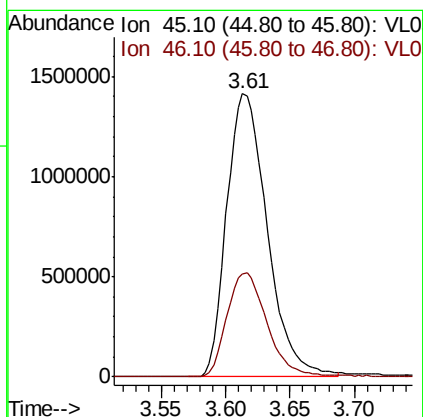
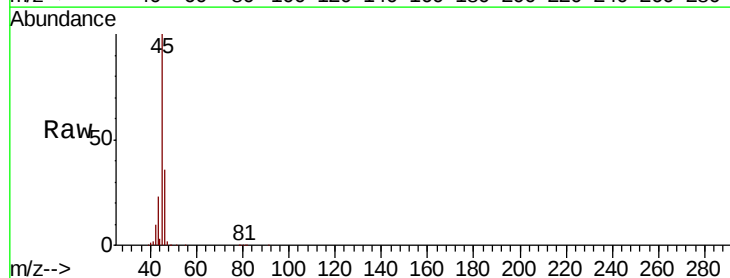
Instrument :
 MSVOA_L
 ClientSampleId :

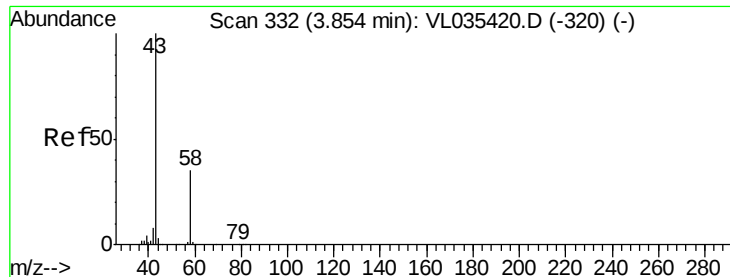
Tot Ion:101 Resp: 48241
 Ion Ratio Lower Upper
 101 100
 103 65.0 52.6 78.8



#13
 Ethanol
 Concen: 144.389 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL035448.D
 Acq: 18 Aug 2020 19:11

Tgt Ion: 45 Resp: 3089955
 Ion Ratio Lower Upper
 45 100
 46 37.1 14.2 56.6





#15

Acetone

Concen: 4.312 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

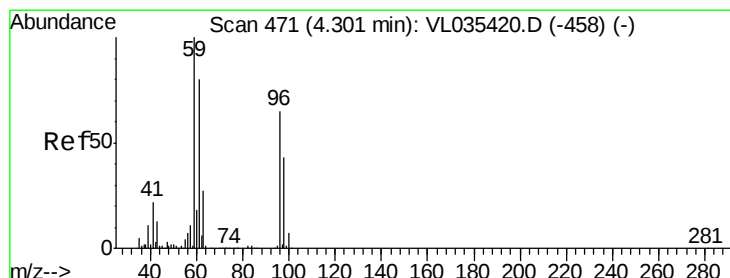
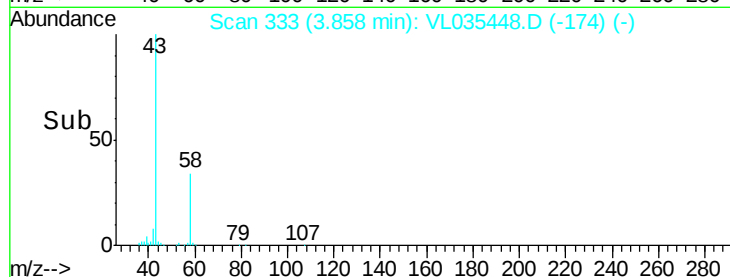
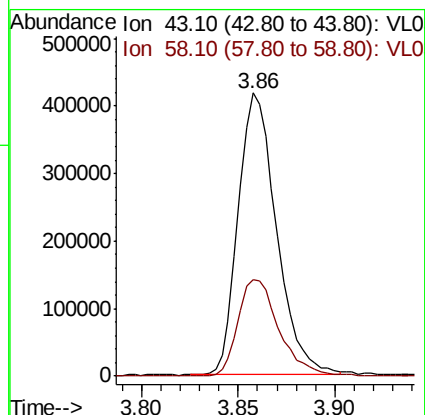
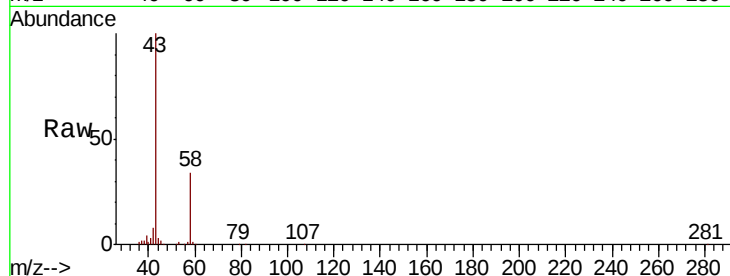
ClientSampleId :

Tot Ion: 43 Resp: 575227

Ion Ratio Lower Upper

43 100

58 36.9 21.0 31.6#



#17

tert-Butyl alcohol

Concen: 0.383 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.03 min

Lab File: VL035448.D

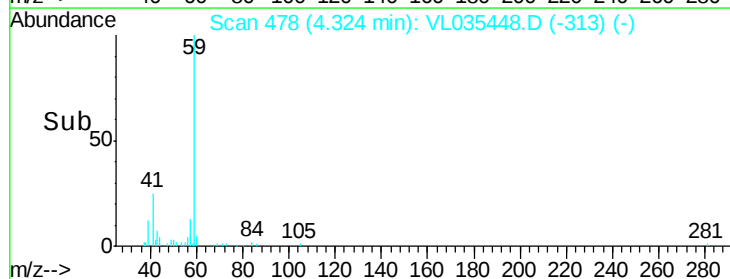
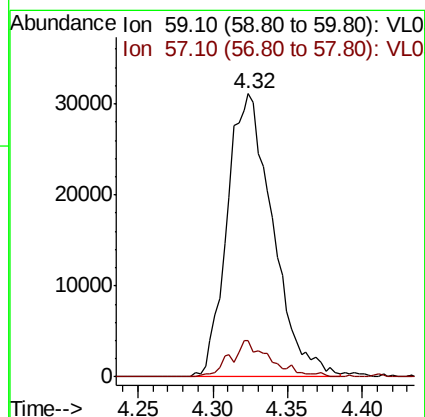
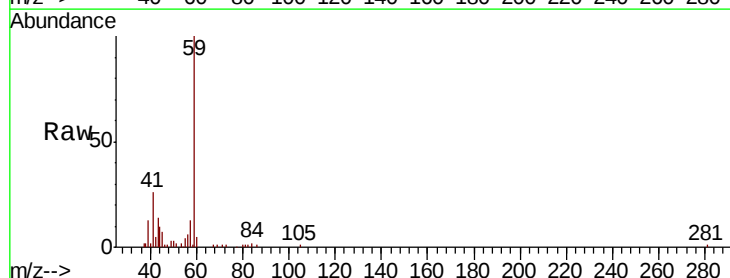
Acq: 18 Aug 2020 19:11

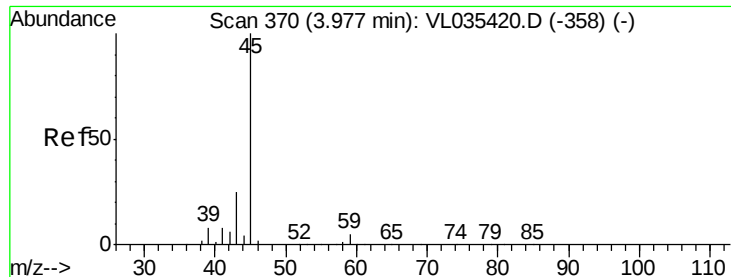
Tgt Ion: 59 Resp: 65999

Ion Ratio Lower Upper

59 100

57 11.5 8.9 13.3





#19

Isopropyl Alcohol

Concen: 0.589 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

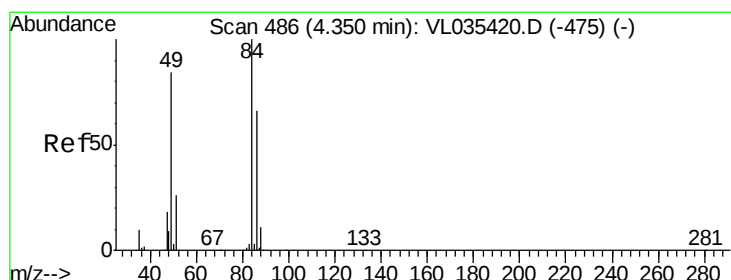
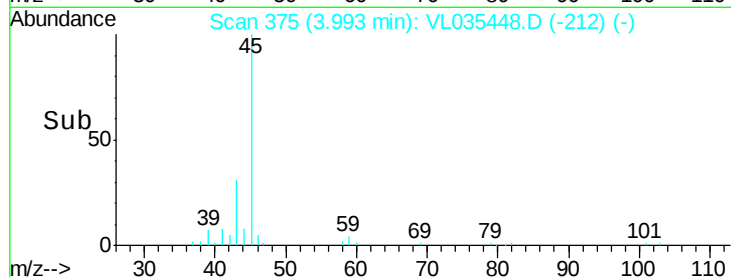
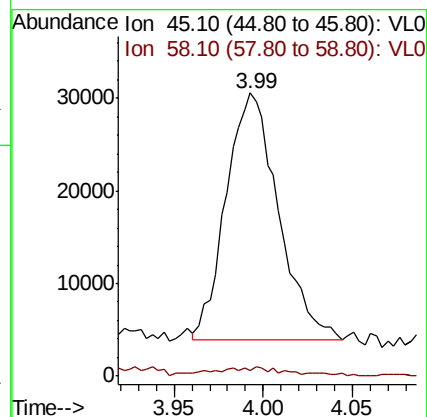
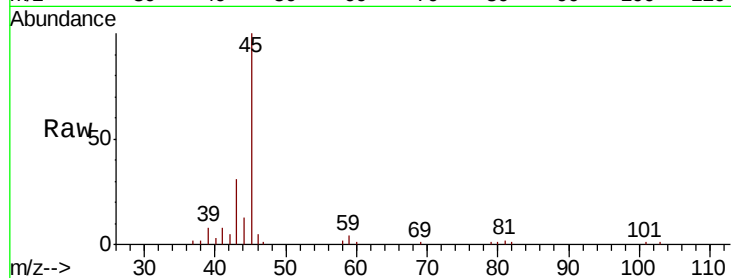
ClientSampleId :

Tot Ion: 45 Resp: 54184

Ion Ratio Lower Upper

45 100

58 391.7 1.0 1.6#



#20

Methylene Chloride

Concen: 1.120 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Tgt Ion: 84 Resp: 120534

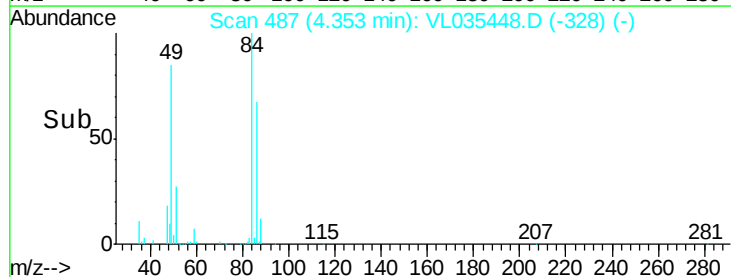
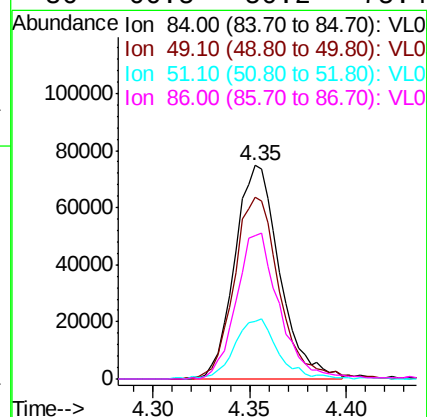
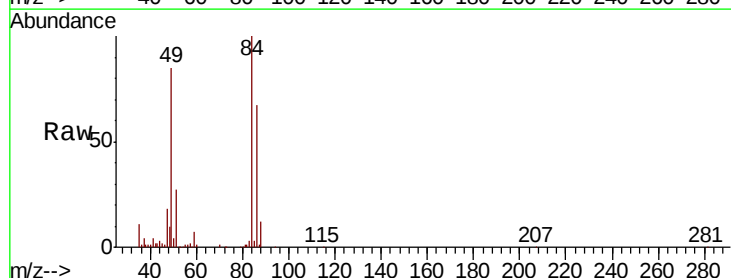
Ion Ratio Lower Upper

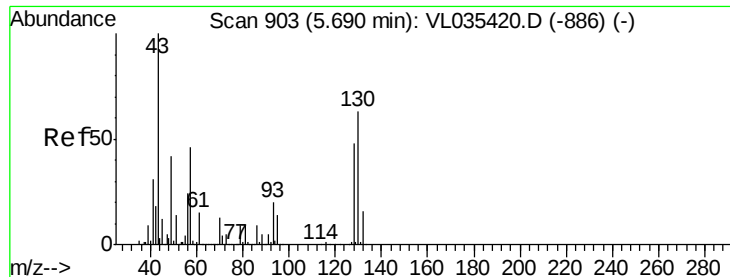
84 100

49 84.5 118.6 177.8#

51 26.4 36.4 54.6#

86 66.5 50.2 75.4

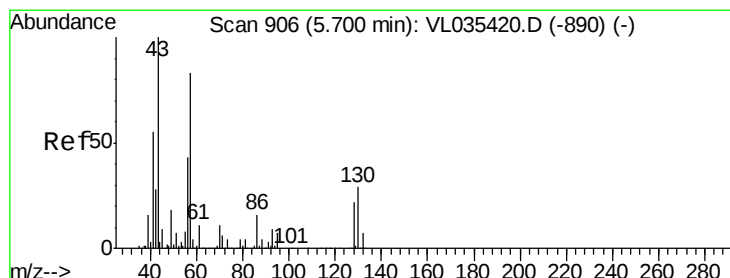
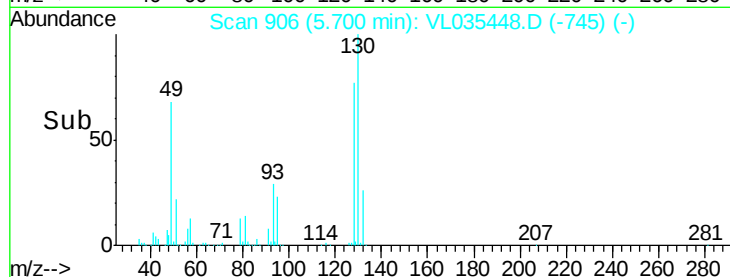
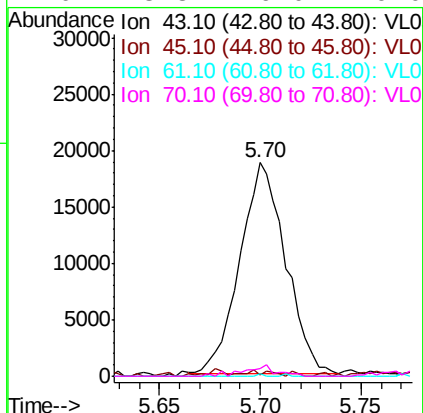
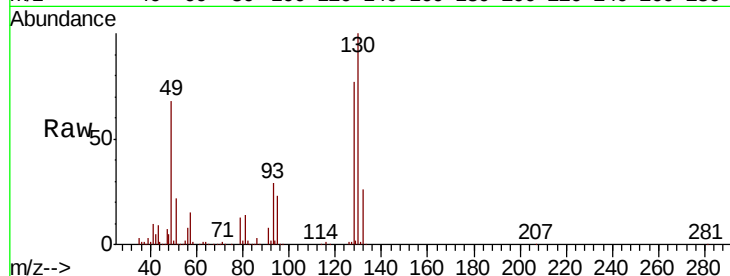




#25
Ethyl Acetate
Concen: 0.113 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

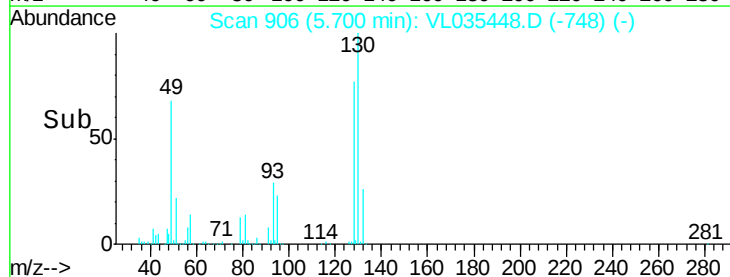
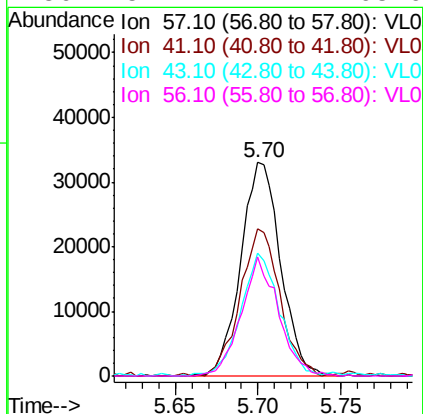
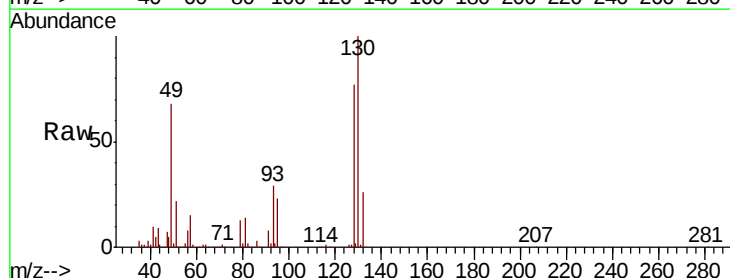
Instrument :
MSVOA_L
ClientSampleId :

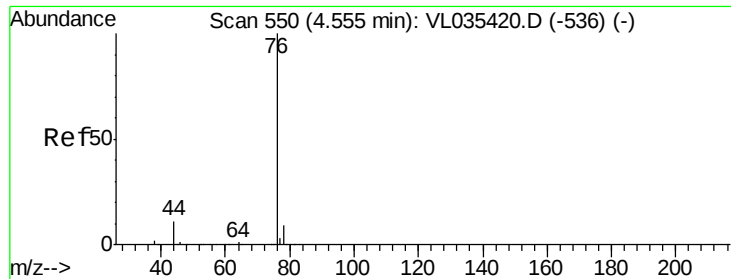
Tot Ion:	43	Resp:	29460
Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.3	12.5#
61	0.3	7.6	11.4#
70	3.8	6.0	9.0#



#26
Hexane
Concen: 0.376 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

Tgt Ion:	57	Resp:	55137
Ion	Ratio	Lower	Upper
57	100		
41	69.5	75.5	113.3#
43	57.9	181.7	272.5#
56	52.1	42.4	63.6

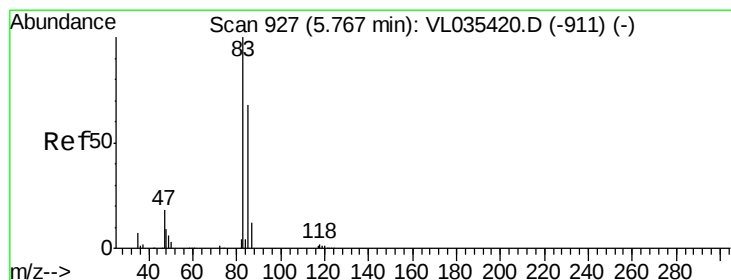
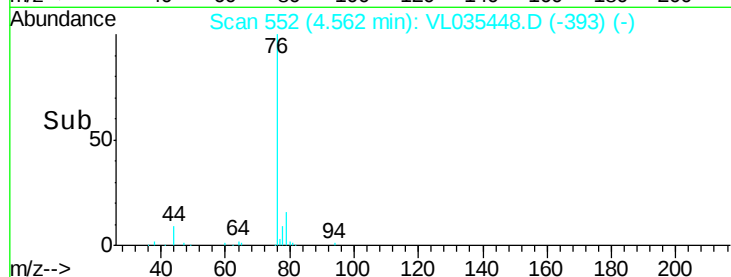
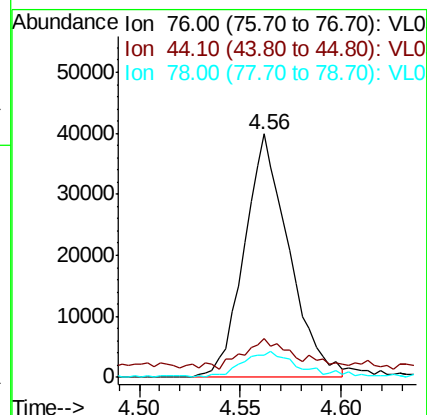
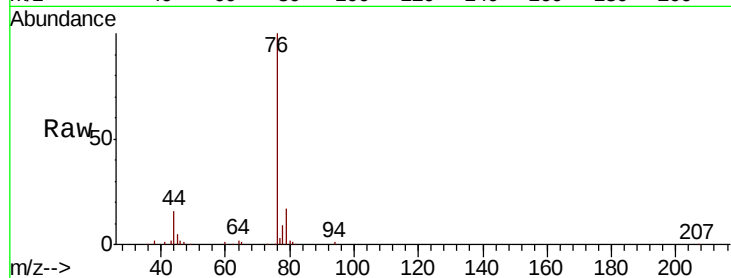




#27
Carbon Disulfide
Concen: 0.291 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.01 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

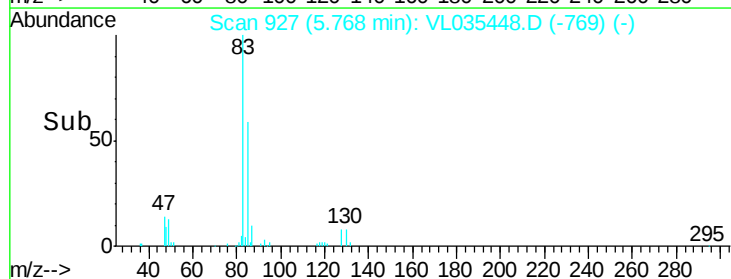
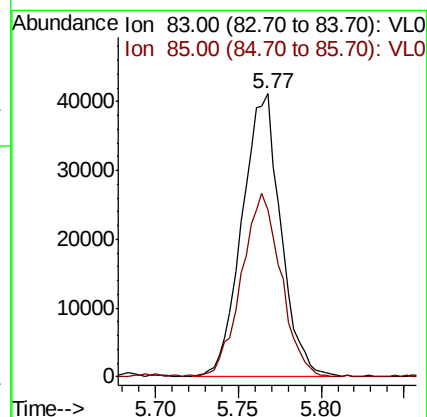
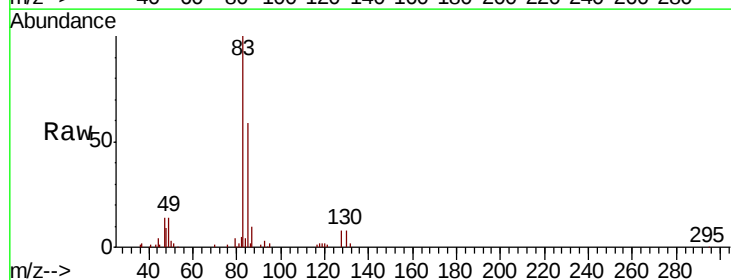
Instrument :
MSVOA_L
ClientSampled :

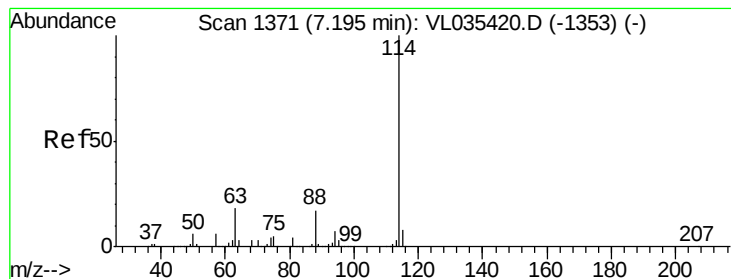
Tot Ion: 76 Resp: 61705
Ion Ratio Lower Upper
76 100
44 16.3 16.8 25.2#
78 14.3 7.3 10.9#



#29
Chloroform
Concen: 0.227 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

Tgt Ion: 83 Resp: 66897
Ion Ratio Lower Upper
83 100
85 59.0 52.7 79.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. 0.00 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

ClientSampleId :

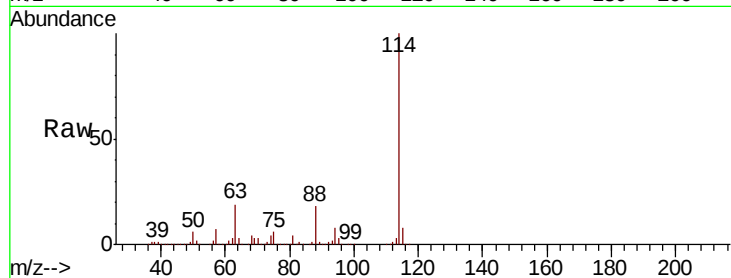
Tot Ion:114 Resp: 5227066

Ion Ratio Lower Upper

114 100

63 17.7 23.1 34.7#

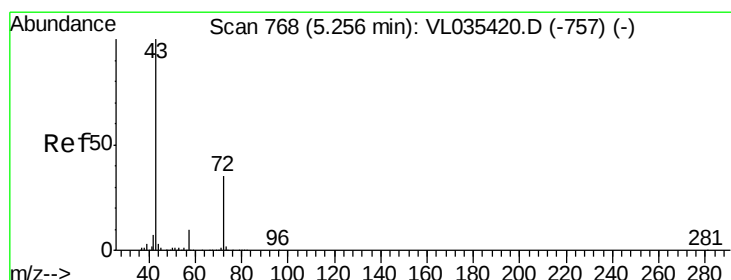
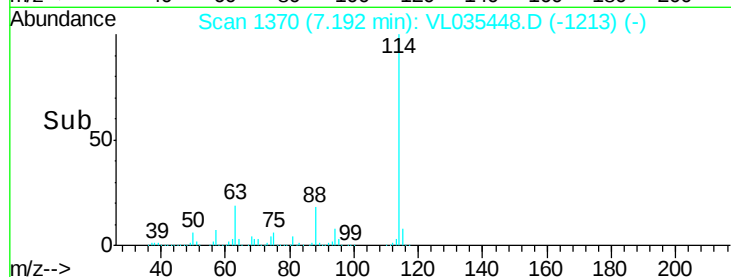
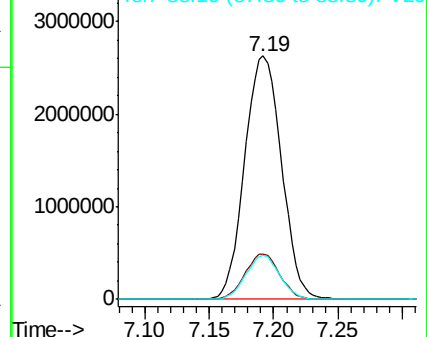
88 16.7 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.438 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.01 min

Lab File: VL035448.D

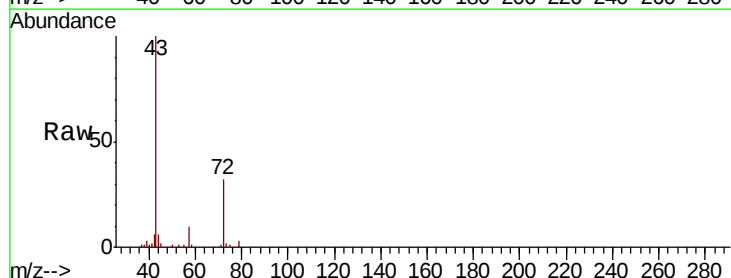
Acq: 18 Aug 2020 19:11

Tgt Ion: 43 Resp: 76485

Ion Ratio Lower Upper

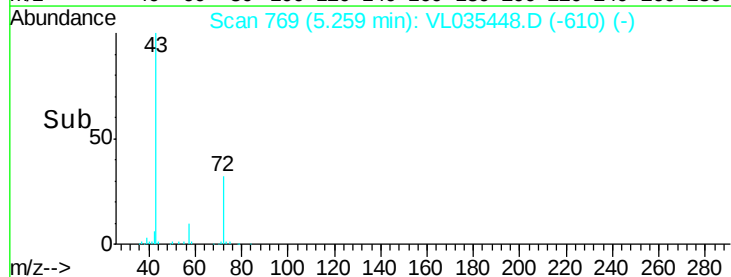
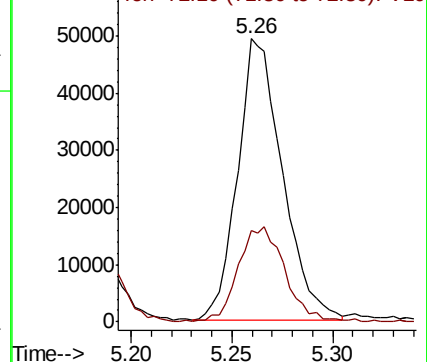
43 100

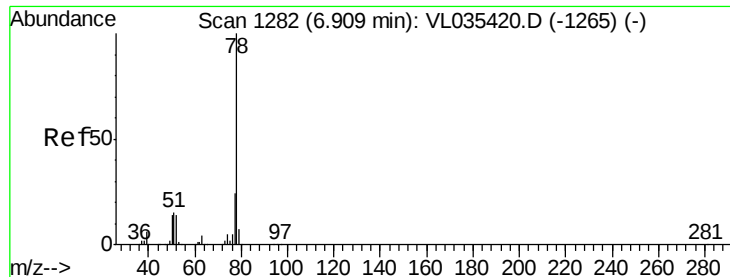
72 35.7 17.6 26.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

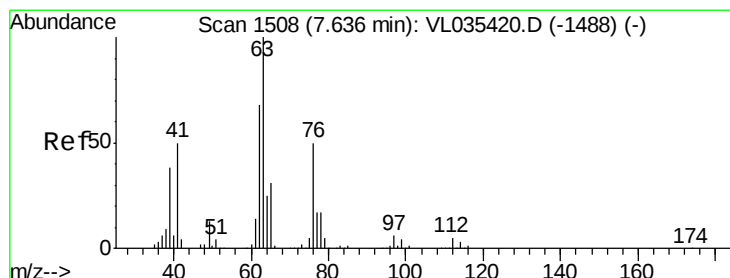
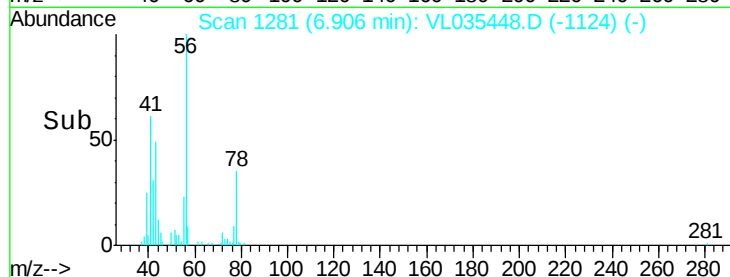
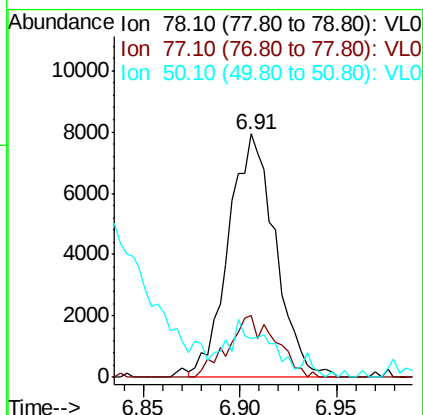
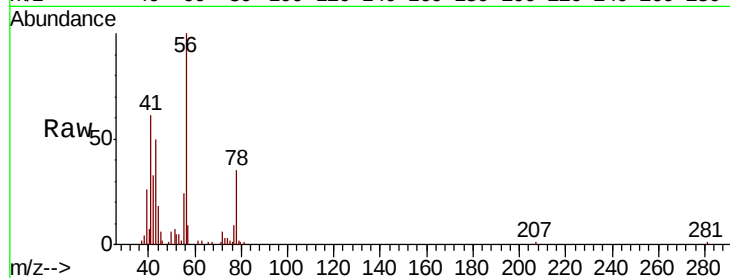




#36
Benzene
Concen: 0.035 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

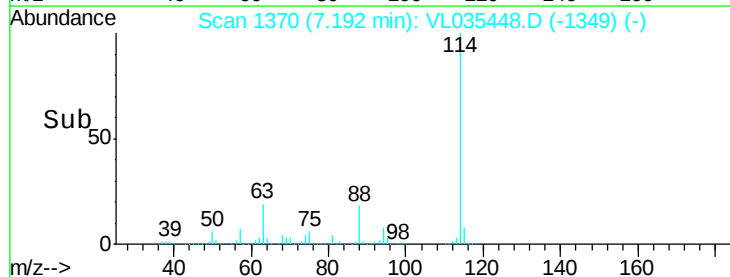
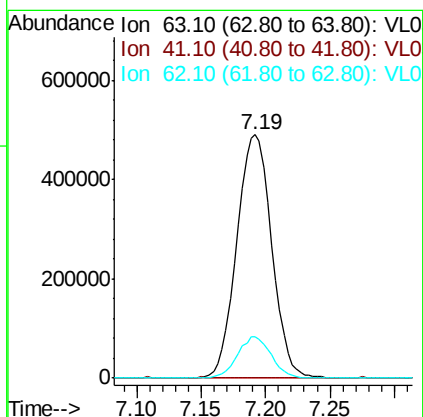
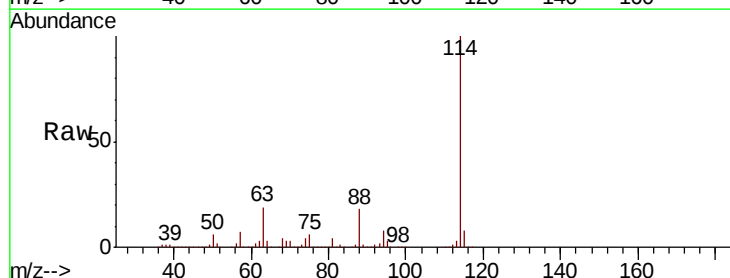
Instrument :
MSVOA_L
ClientSampleId :

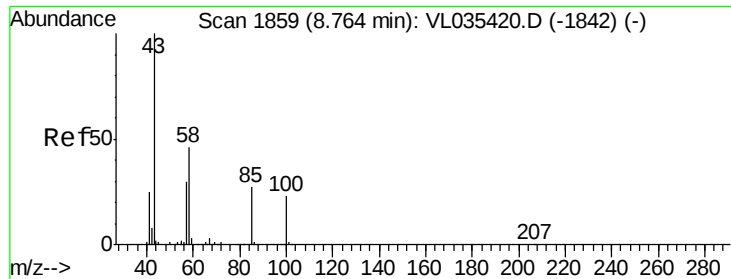
Tot Ion: 78 Resp: 13319
Ion Ratio Lower Upper
78 100
77 25.3 19.6 29.4
50 16.2 16.3 24.5#



#39
1,2-Dichloropropane
Concen: 7.313 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.43 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

Tgt Ion: 63 Resp: 924600
Ion Ratio Lower Upper
63 100
41 0.0 61.1 91.7#
62 17.1 55.3 82.9#





#50

4-Methyl-2-Pentanone

Concen: 0.129 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. 0.02 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

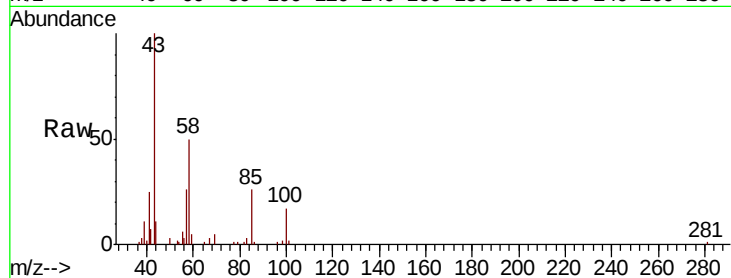
ClientSampleId :

Tot Ion: 43 Resp: 32428

Ion Ratio Lower Upper

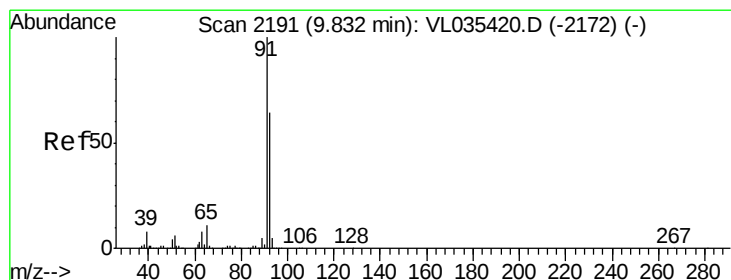
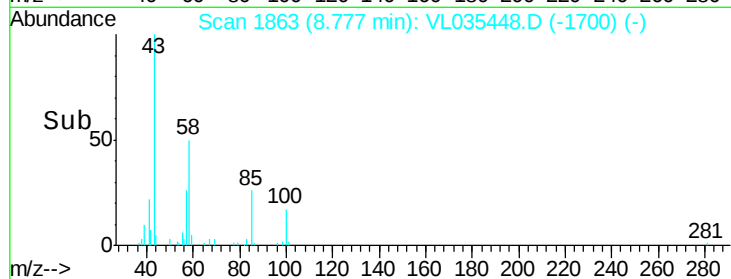
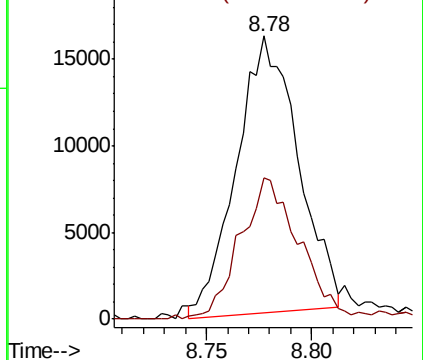
43 100

58 50.7 28.7 43.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#53

Toluene

Concen: 0.231 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL035448.D

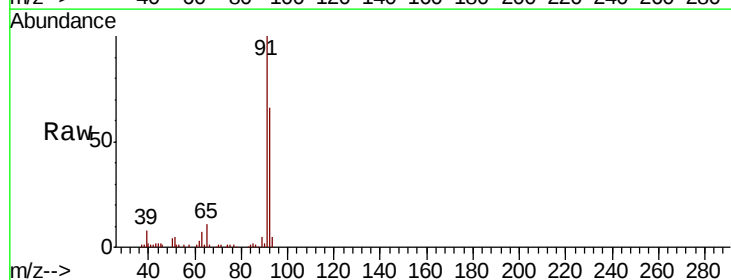
Acq: 18 Aug 2020 19:11

Tgt Ion: 91 Resp: 114055

Ion Ratio Lower Upper

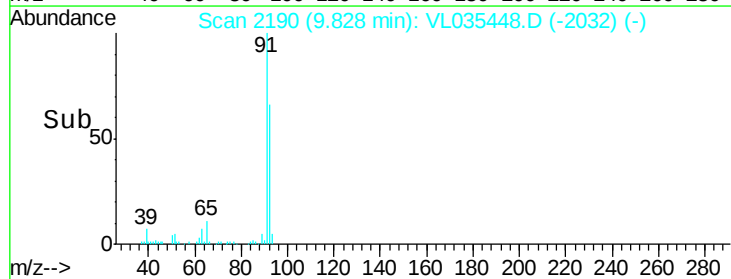
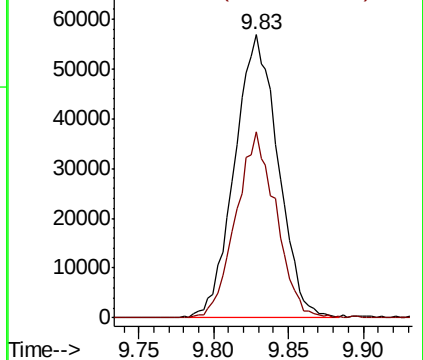
91 100

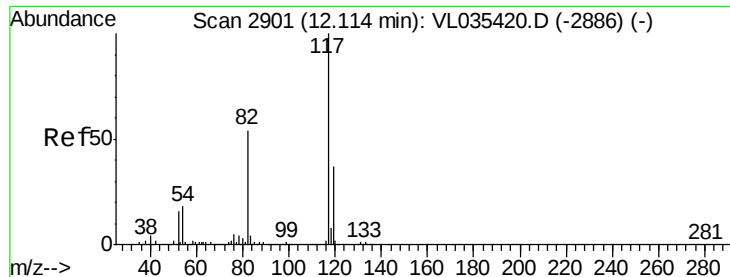
92 61.4 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

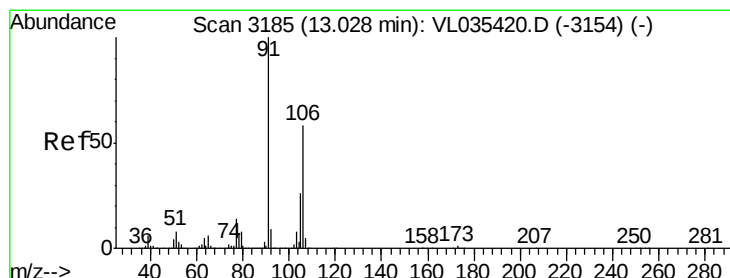
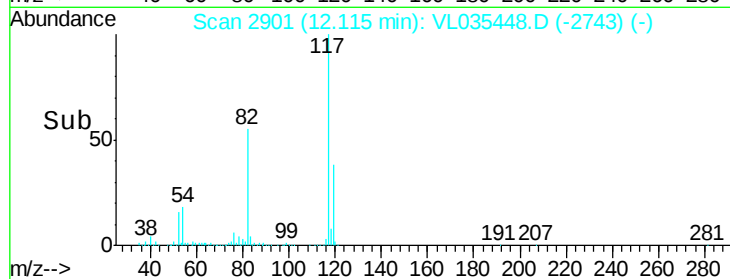
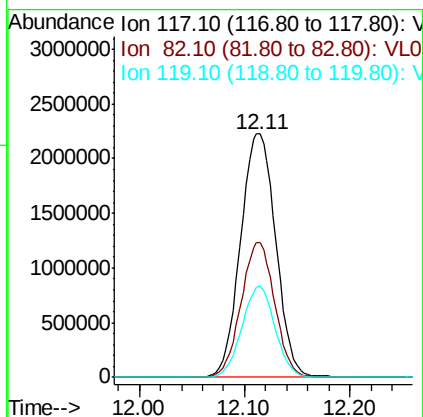
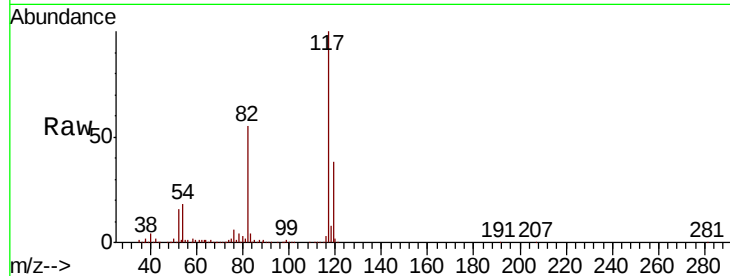




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.01 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

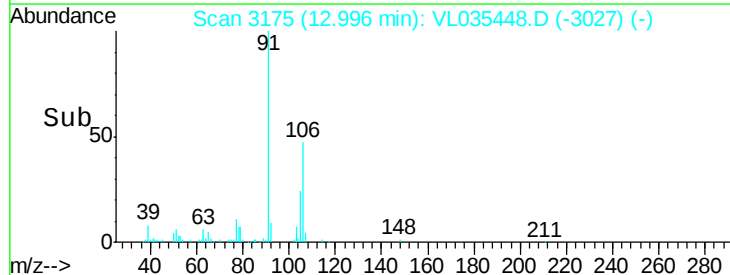
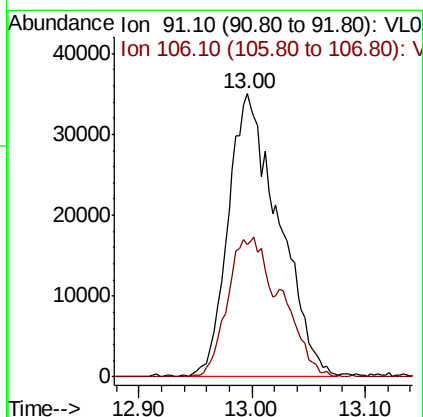
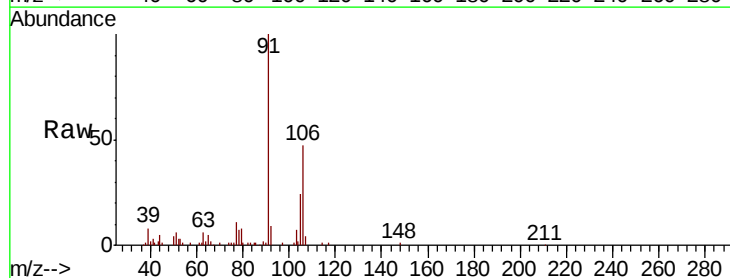
Instrument :
MSVOA_L
ClientSampled :

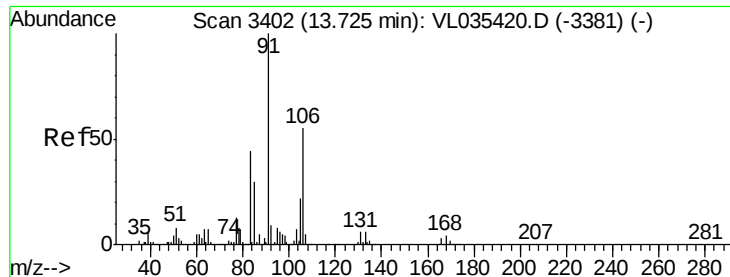
Tot Ion:117 Resp: 5165592
Ion Ratio Lower Upper
117 100
82 53.1 57.4 86.0#
119 35.2 28.4 42.6



#59
m/p-Xylene
Concen: 0.206 ppbv
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL035448.D
Acq: 18 Aug 2020 19:11

Tgt Ion: 91 Resp: 108627
Ion Ratio Lower Upper
91 100
106 51.9 34.0 51.0#





#60

o-Xylene

Concen: 0.033 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

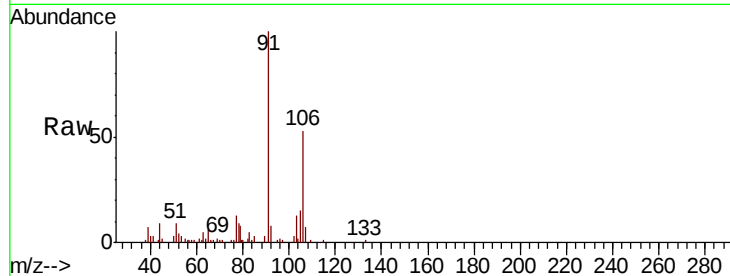
ClientSampleId :

Tot Ion: 91 Resp: 16877

Ion Ratio Lower Upper

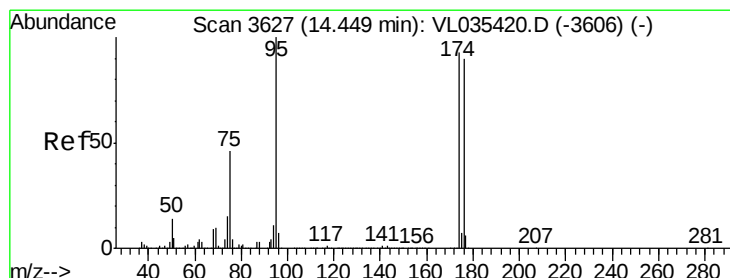
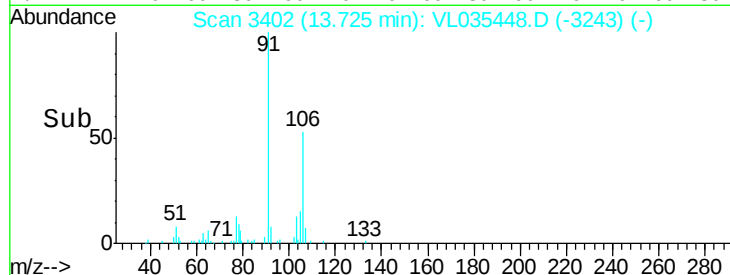
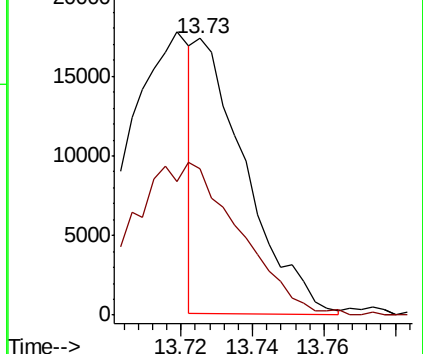
91 100

106 0.0 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: 10.364 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

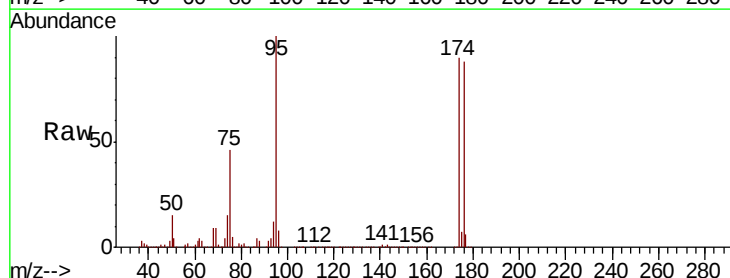
Tgt Ion: 95 Resp: 3747859

Ion Ratio Lower Upper

95 100

174 91.6 44.0 66.0#

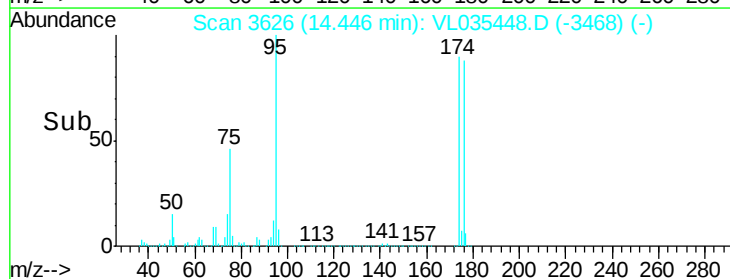
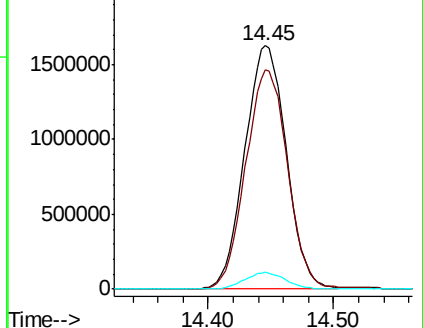
175 6.8 3.2 4.8#

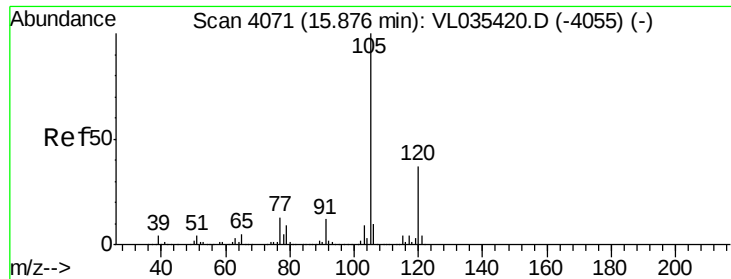


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.039 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. 0.00 min

Lab File: VL035448.D

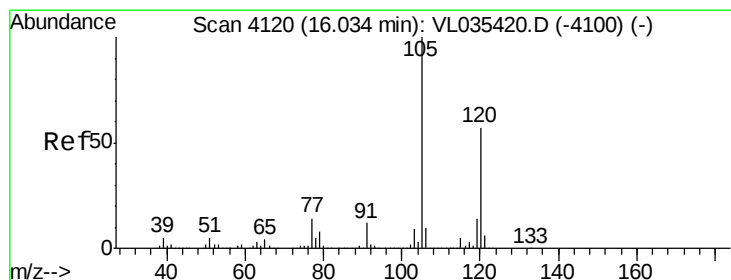
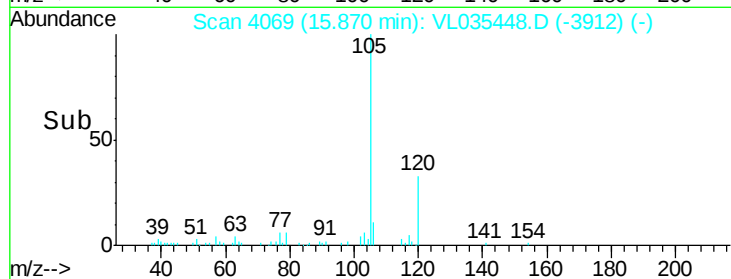
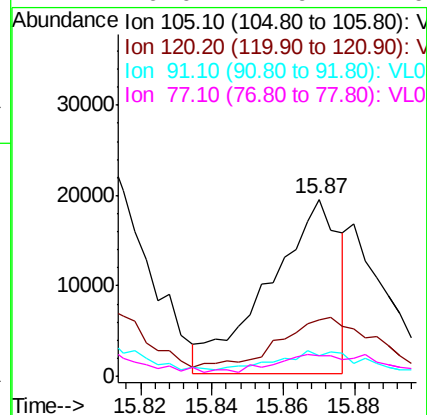
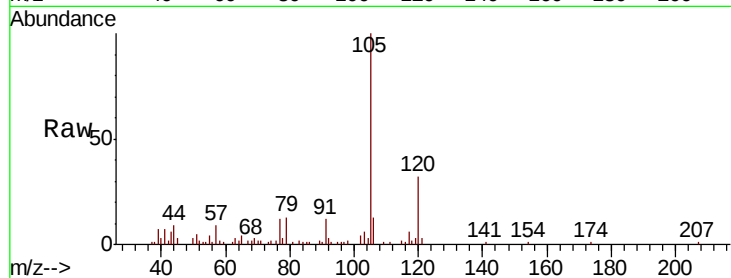
Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	26304
Ion Ratio	Lower	Upper
105	100	
120	51.8	22.7 34.1#
91	19.8	10.8 16.2#
77	0.0	11.9 17.9#



#73

1,3,5-Trimethylbenzene

Concen: 0.052 ppbv

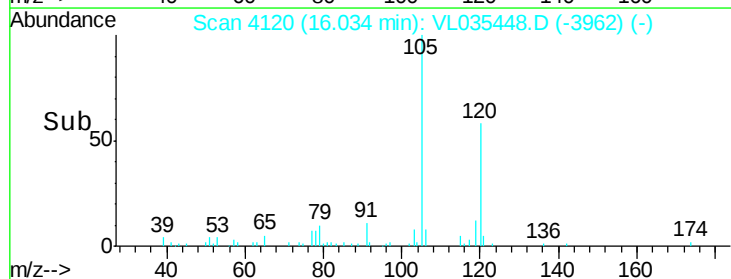
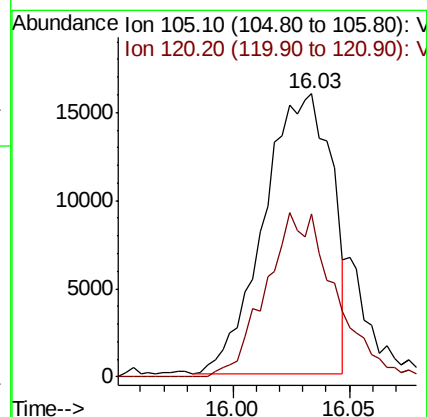
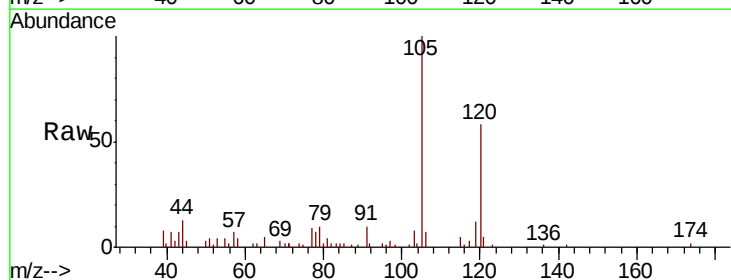
RT: 16.03 min Scan# 4120

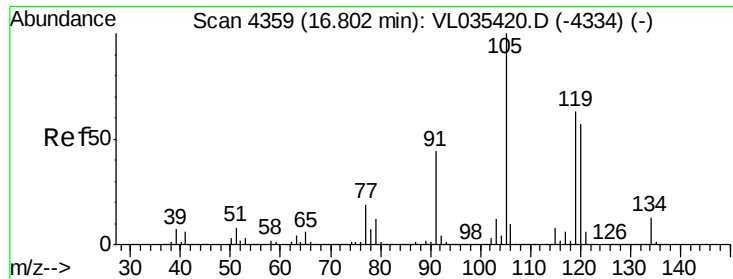
Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Tgt Ion:105	Resp:	32320
Ion Ratio	Lower	Upper
105	100	
120	63.1	35.6 53.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.243 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.00 min

Lab File: VL035448.D

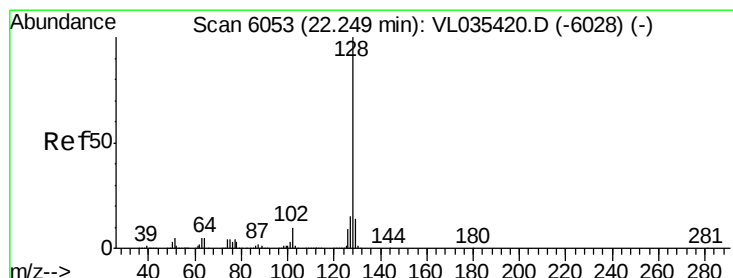
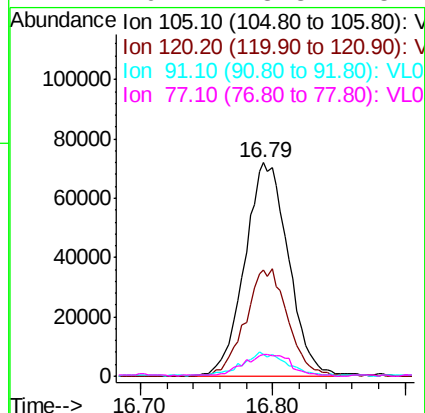
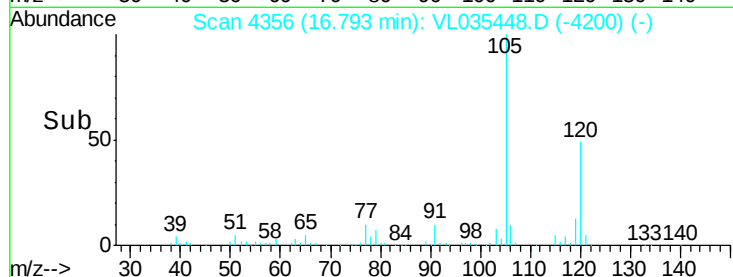
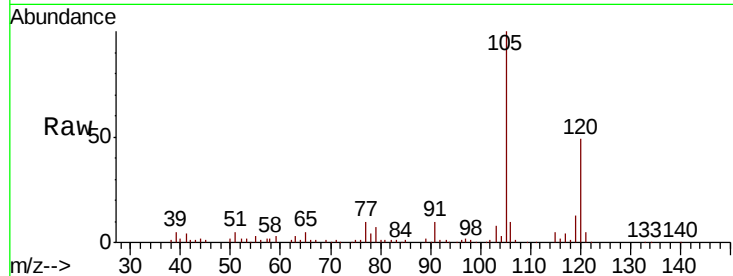
Acq: 18 Aug 2020 19:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	165261
Ion	Ratio	Lower	Upper
105	100		
120	49.2	37.8	56.8
91	9.7	40.0	60.0#
77	10.2	18.8	28.2#



#79

Naphthalene

Concen: 0.039 ppbv

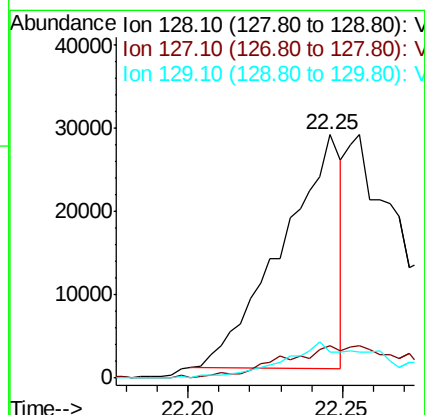
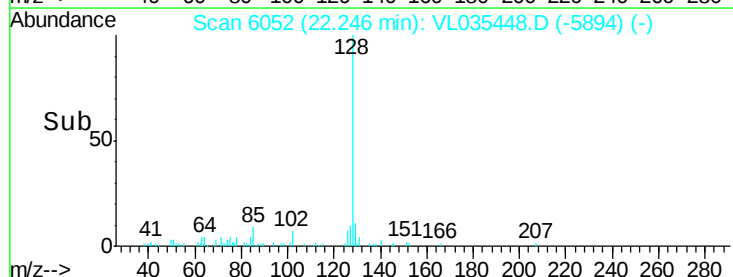
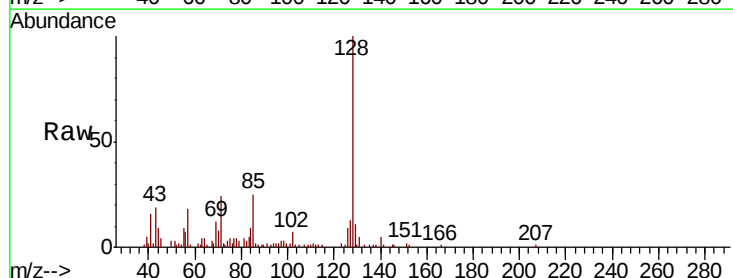
RT: 22.25 min Scan# 6052

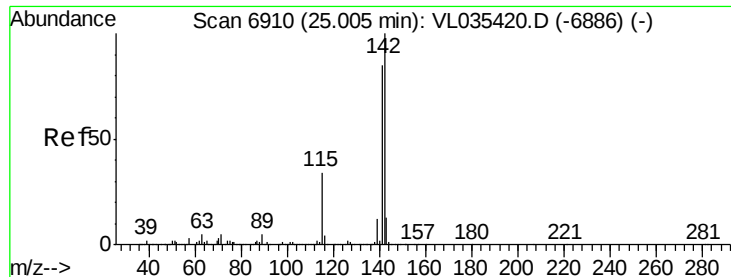
Delta R.T. 0.01 min

Lab File: VL035448.D

Acq: 18 Aug 2020 19:11

Tgt Ion:	128	Resp:	37398
Ion	Ratio	Lower	Upper
128	100		
127	13.8	11.4	17.0
129	11.3	9.5	14.3

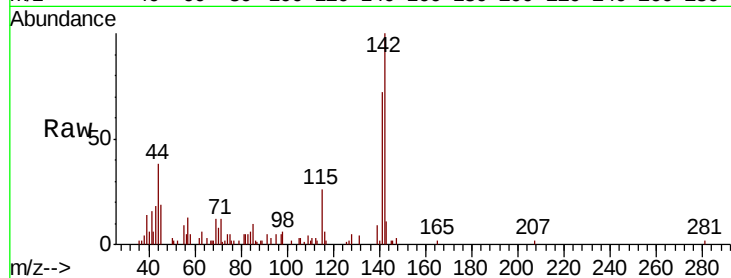




#80
 Naphthalene,2-methyl-
 Concen: 0.059 ppbv
 RT: 25.01 min Scan# 6911
 Delta R.T. 0.01 min
 Lab File: VL035448.D
 Acq: 18 Aug 2020 19:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	81.4	67.1	100.7
115	38.3	36.1	54.1



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

