

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035350.D
 Acq On : 6 Aug 2020 15:11
 Operator : SY/AP
 Sample : L3554-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 07 06:27:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 13:04:46 2020
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1511371	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3706135	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3517773	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2960256	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

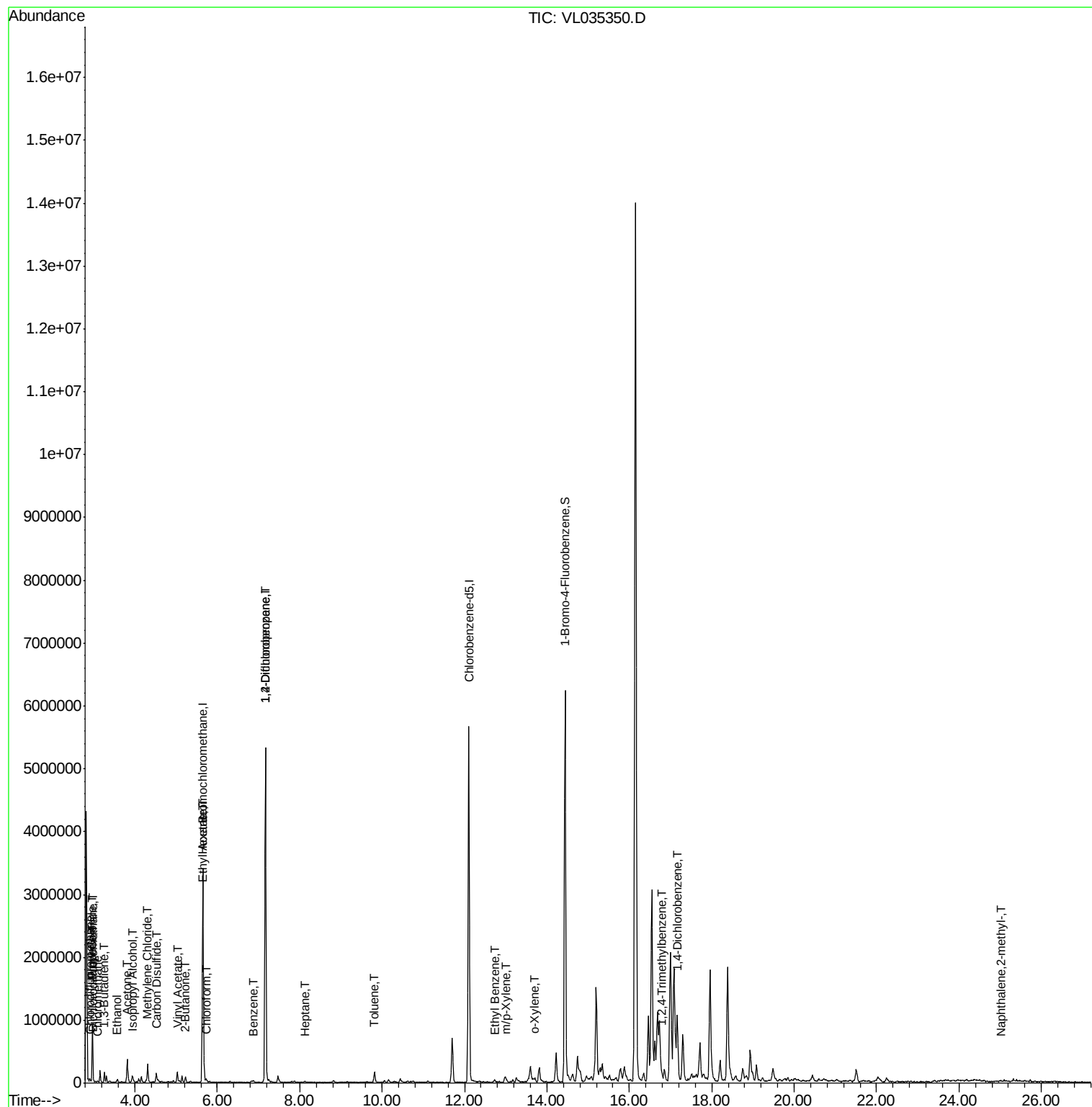
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	12309	0.061 ppbv	99
3) Chlorodifluoromethane	2.91	51	35099	0.203 ppbv #	67
4) Chloromethane	3.09	50	5811	0.059 ppbv #	81
5) Vinyl Chloride	2.96	62	49370	0.491 ppbv #	46
9) Propene	2.97	41	9717	0.158 ppbv #	15
10) Heptane	8.11	43	5370	0.034 ppbv #	65
13) Ethanol	3.57	45	44150	2.082 ppbv	88
15) Acetone	3.81	43	360553	1.680 ppbv #	89
16) 1,3-Butadiene	3.26	39	25851	0.313 ppbv #	23
19) Isopropyl Alcohol	3.93	45	103707	0.762 ppbv #	89
20) Methylene Chloride	4.31	84	88635	1.013 ppbv	94
23) Vinyl Acetate	5.04	43	16162	0.079 ppbv #	1
25) Ethyl Acetate	5.66	43	69210	0.212 ppbv #	80
26) Hexane	5.66	57	95661	0.676 ppbv #	42
27) Carbon Disulfide	4.52	76	156058	0.789 ppbv #	91
29) Chloroform	5.73	83	22685	0.093 ppbv #	76
34) 2-Butanone	5.22	43	97014	0.532 ppbv	94
36) Benzene	6.88	78	11355	0.045 ppbv #	85
39) 1,2-Dichloropropane	7.17	63	970947	9.584 ppbv #	22
53) Toluene	9.82	91	124637	0.458 ppbv	98
58) Ethyl Benzene	12.72	91	13715	0.037 ppbv	94
59) m/p-Xylene	13.01	91	15951	0.047 ppbv #	29
60) o-Xylene	13.71	91	21982	0.065 ppbv #	40
74) 1,2,4-Trimethylbenzene	16.79	105	71563	0.169 ppbv #	61
76) 1,4-Dichlorobenzene	17.18	146	10390	0.041 ppbv #	1
80) Naphthalene,2-methyl-	25.01	142	4839	0.065 ppbv	94

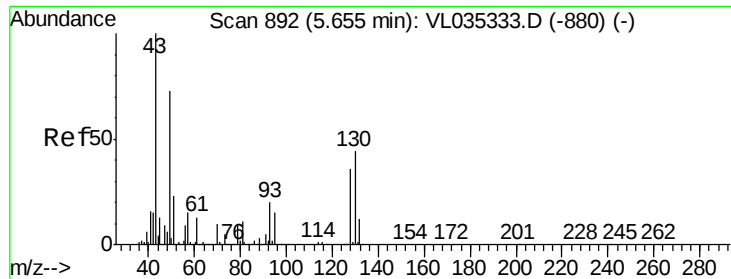
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:04:46 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Instrument :

MSVOA_L

ClientSampleId :

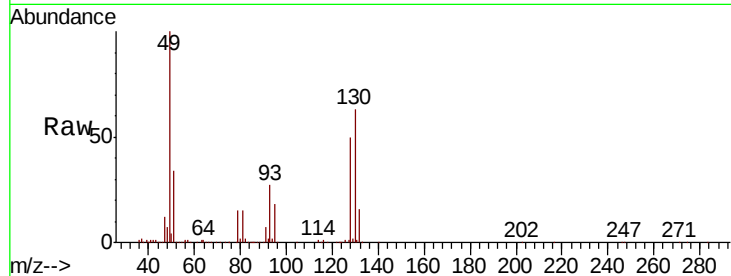
Tot Ion: 49 Resp: 1511371

Ion Ratio Lower Upper

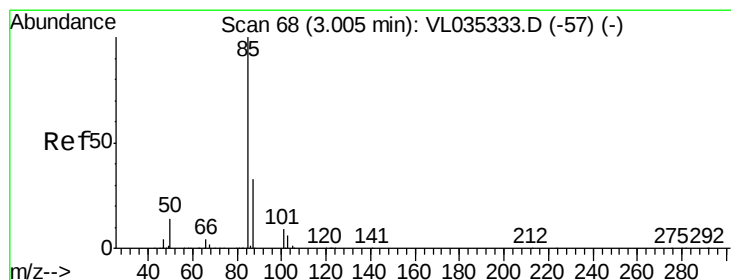
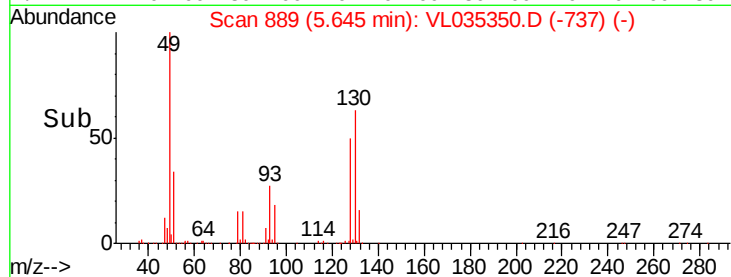
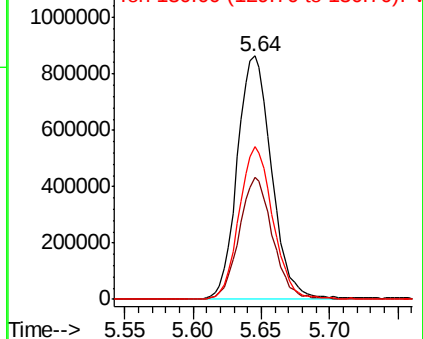
49 100

128 48.9 25.4 76.0

130 62.0 32.1 96.3



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



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035350.D

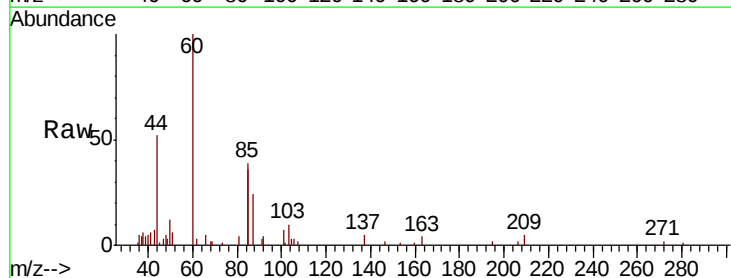
Acq: 6 Aug 2020 15:11

Tgt Ion: 85 Resp: 12309

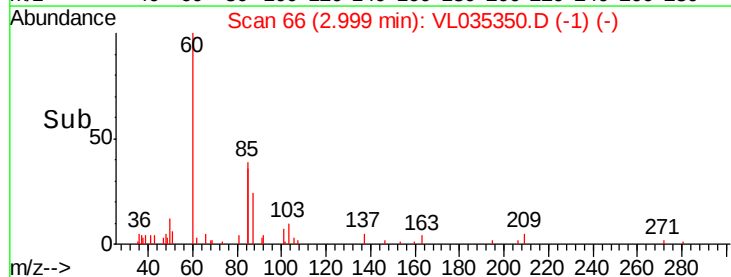
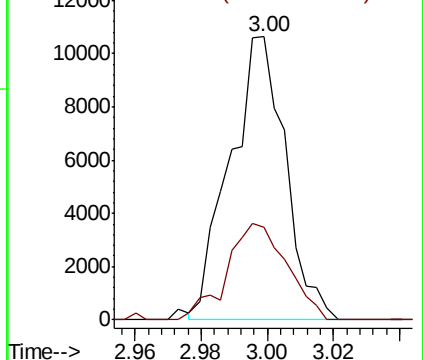
Ion Ratio Lower Upper

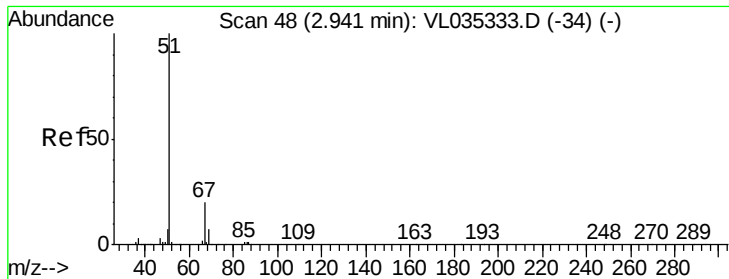
85 100

87 32.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

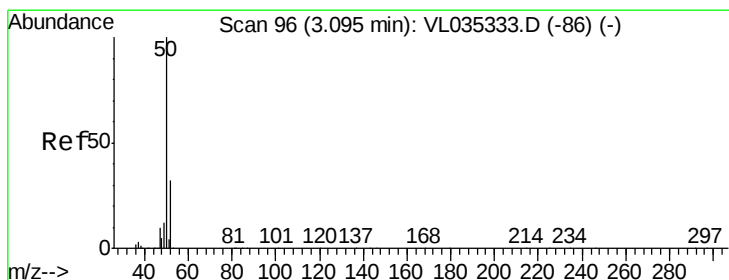
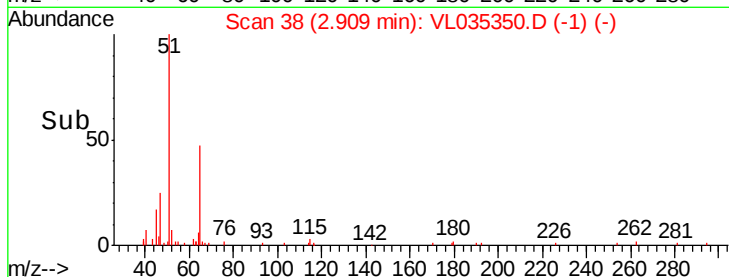
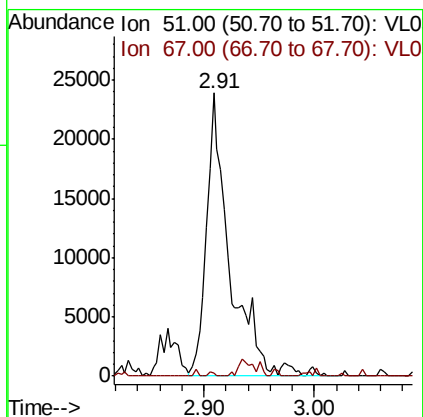
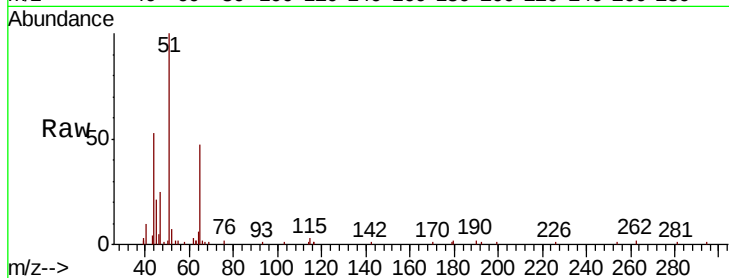




#3
Chlorodifluoromethane
Concen: 0.203 ppbv
RT: 2.91 min Scan# 38
Delta R.T. -0.03 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

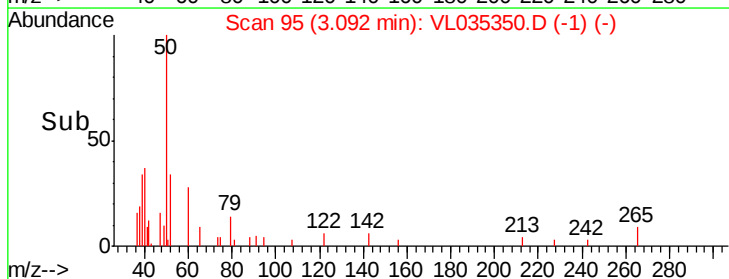
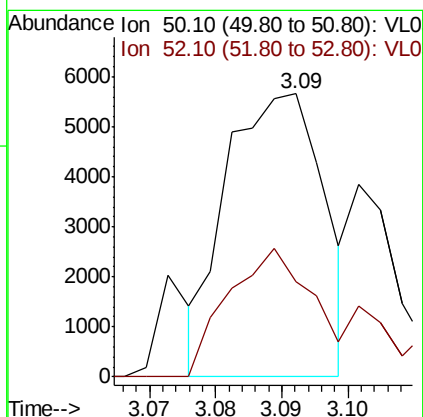
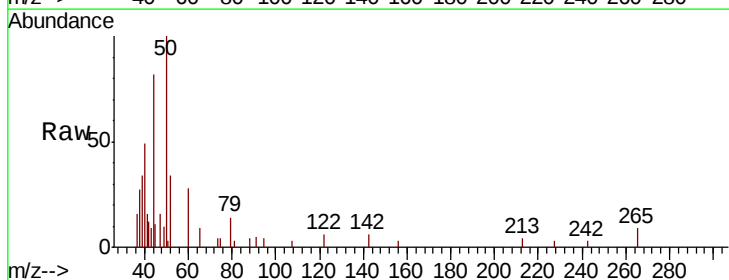
Instrument :
MSVOA_L
ClientSampleId :

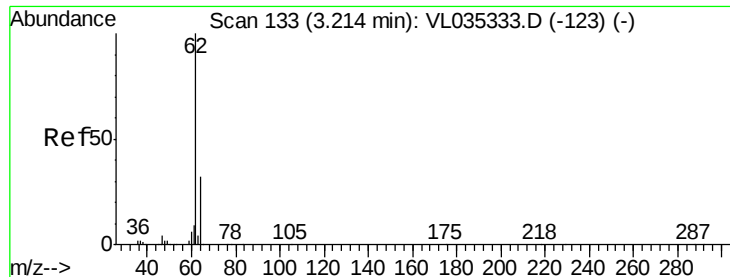
Tot Ion: 51 Resp: 35099
Ion Ratio Lower Upper
51 100
67 5.4 16.6 25.0#



#4
Chloromethane
Concen: 0.059 ppbv
RT: 3.09 min Scan# 95
Delta R.T. -0.00 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

Tgt Ion: 50 Resp: 5811
Ion Ratio Lower Upper
50 100
52 43.2 26.0 39.0#





#5

Vinyl Chloride

Concen: 0.491 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.25 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Instrument :

MSVOA_L

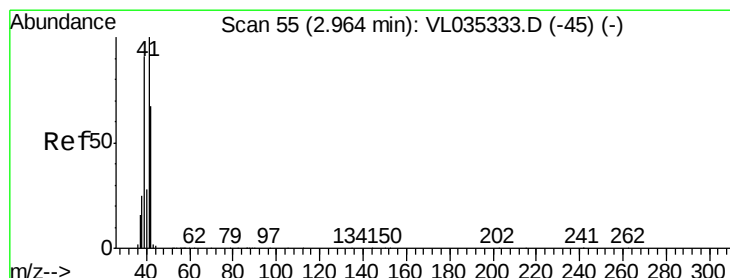
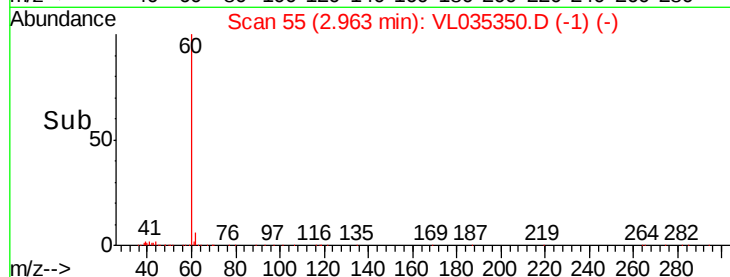
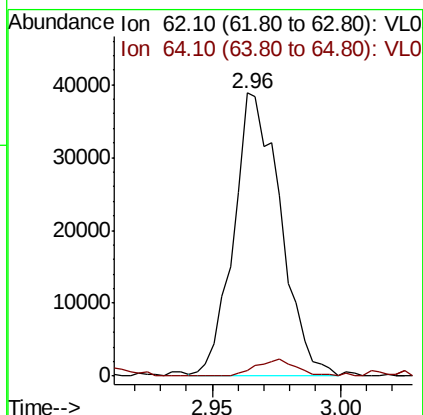
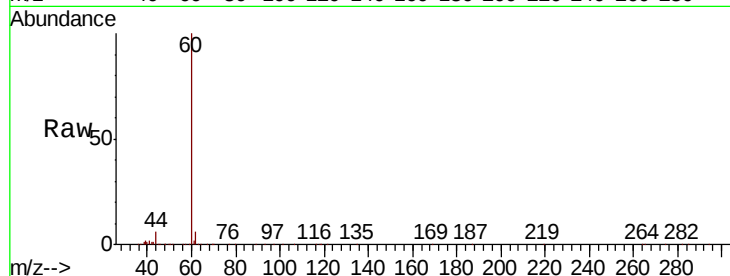
ClientSampleId :

Tot Ion: 62 Resp: 49370

Ion Ratio Lower Upper

62 100

64 2.1 25.8 38.6#



#9

Propene

Concen: 0.158 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL035350.D

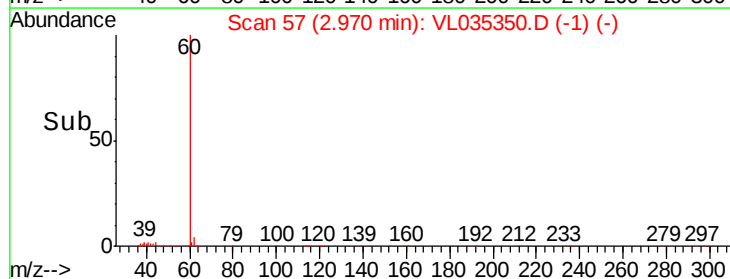
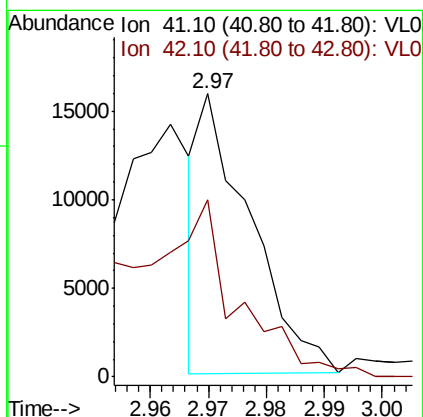
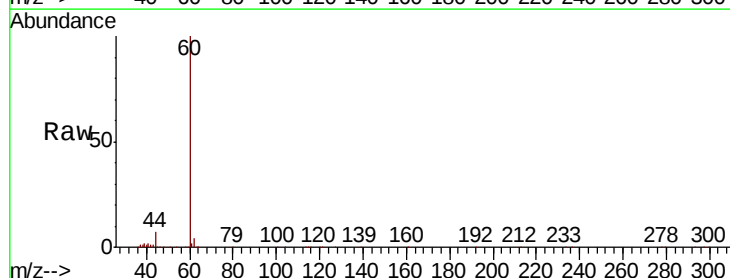
Acq: 6 Aug 2020 15:11

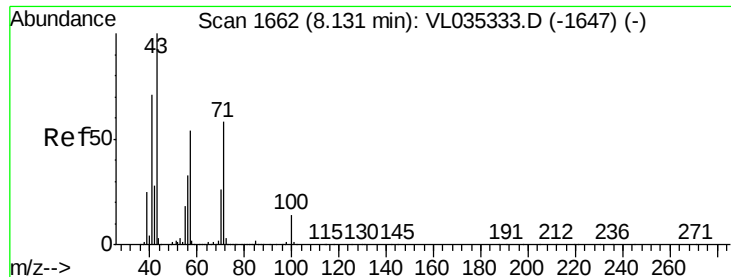
Tgt Ion: 41 Resp: 9717

Ion Ratio Lower Upper

41 100

42 138.4 55.3 82.9#

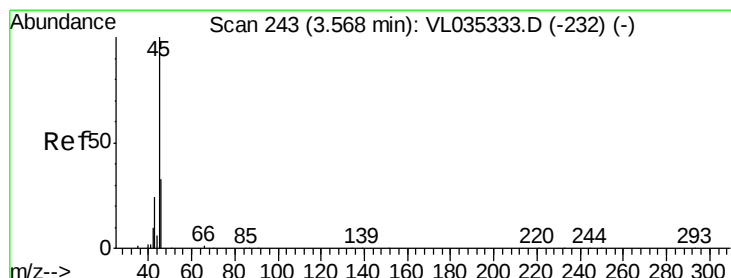
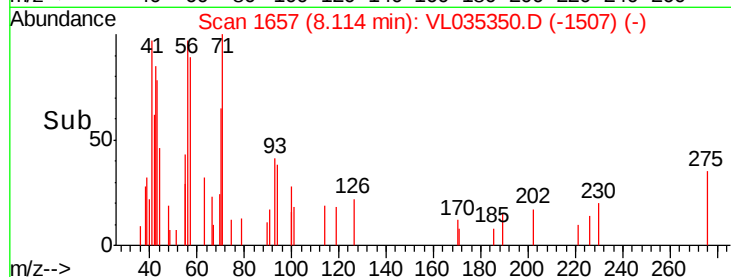
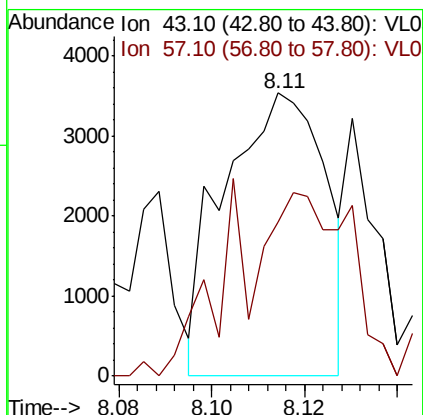
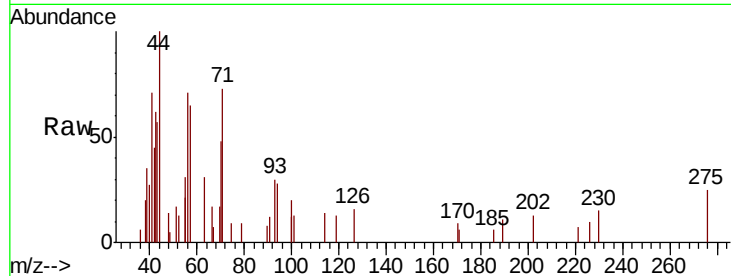




#10
Heptane
Concen: 0.034 ppbv
RT: 8.11 min Scan# 1657
Delta R.T. -0.02 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

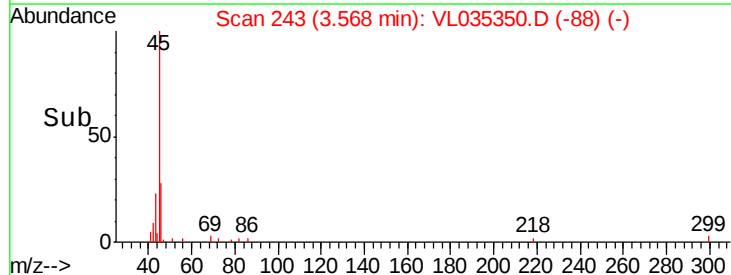
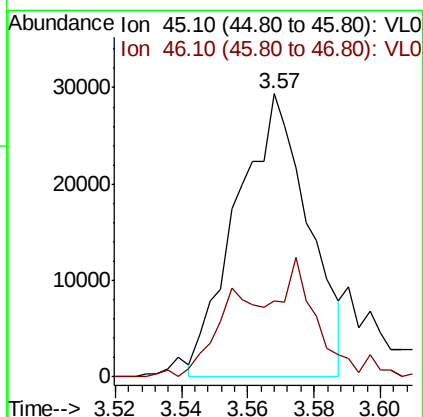
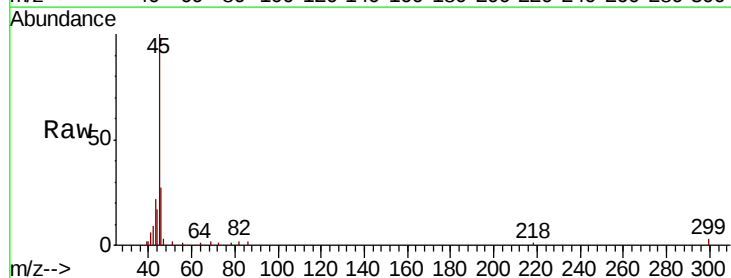
Instrument :
MSVOA_L
ClientSampleId :

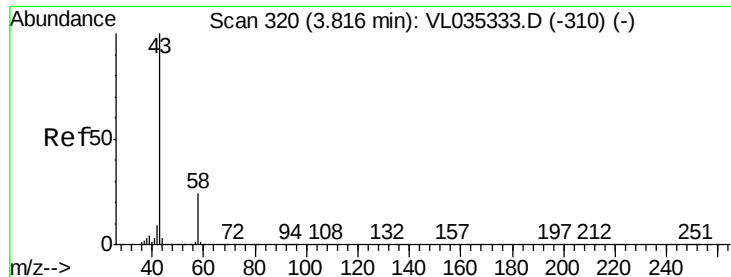
Tot Ion: 43 Resp: 5370
Ion Ratio Lower Upper
43 100
57 78.9 43.0 64.6#



#13
Ethanol
Concen: 2.082 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.00 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

Tgt Ion: 45 Resp: 44150
Ion Ratio Lower Upper
45 100
46 45.5 15.2 61.0





#15

Acetone

Concen: 1.680 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.01 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Instrument :

MSVOA_L

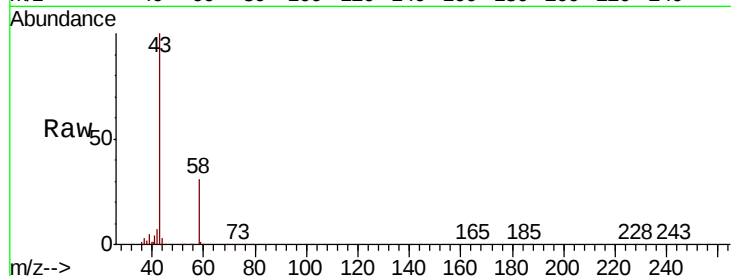
ClientSampleId :

Tot Ion: 43 Resp: 360553

Ion Ratio Lower Upper

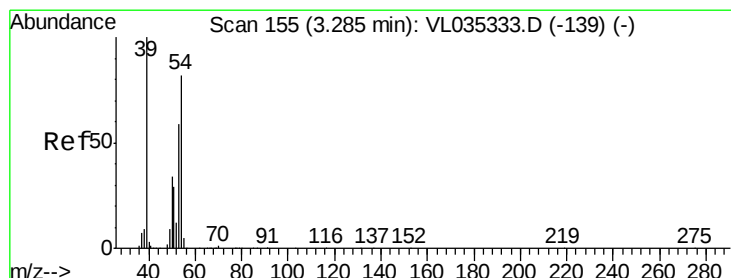
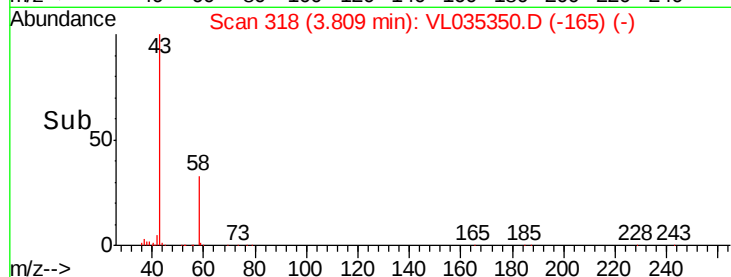
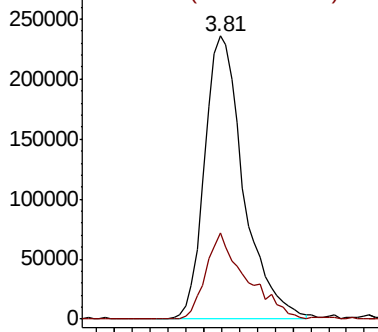
43 100

58 32.1 21.0 31.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.313 ppbv

RT: 3.26 min Scan# 147

Delta R.T. -0.03 min

Lab File: VL035350.D

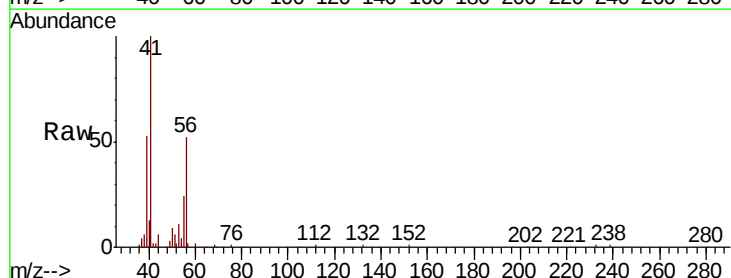
Acq: 6 Aug 2020 15:11

Tgt Ion: 39 Resp: 25851

Ion Ratio Lower Upper

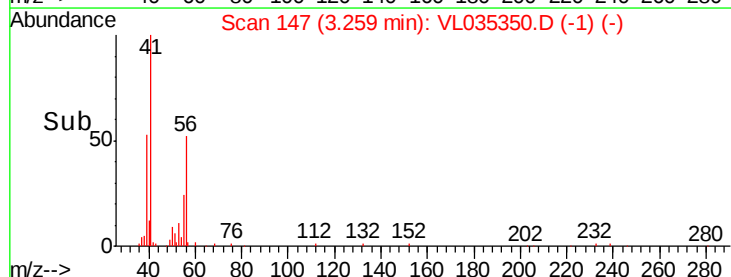
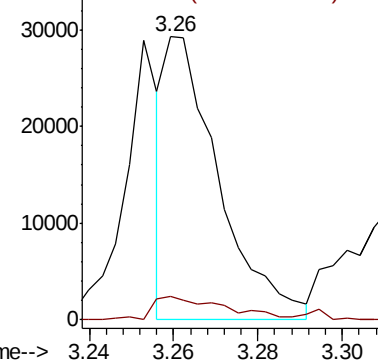
39 100

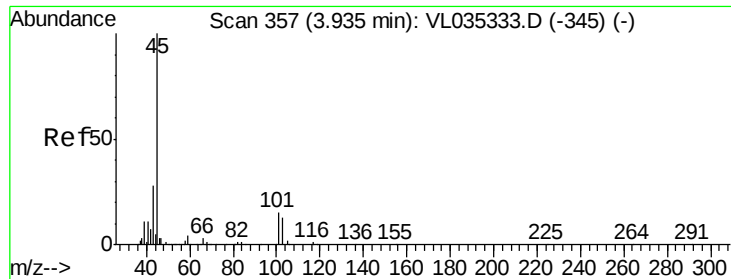
54 12.6 64.4 96.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.762 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Instrument :

MSVOA_L

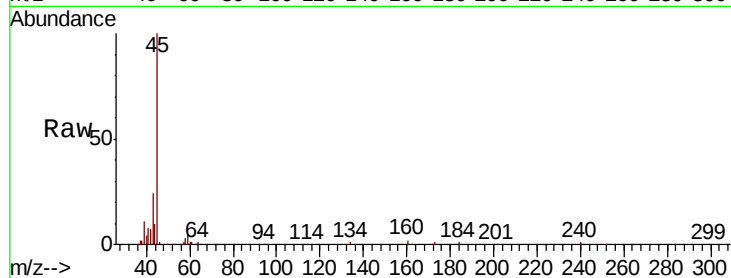
ClientSampleId :

Tot Ion: 45 Resp: 103707

Ion Ratio Lower Upper

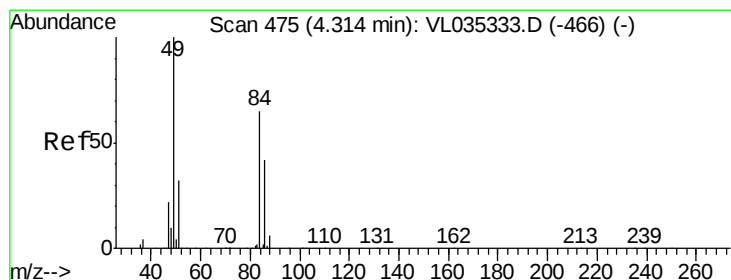
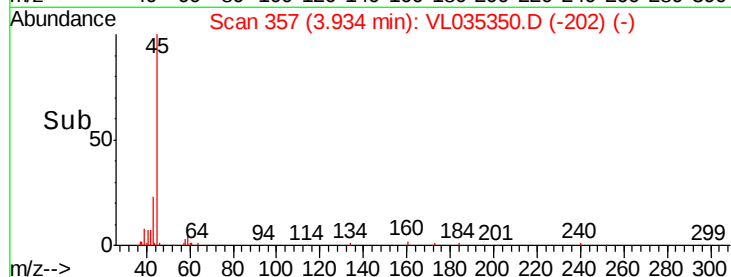
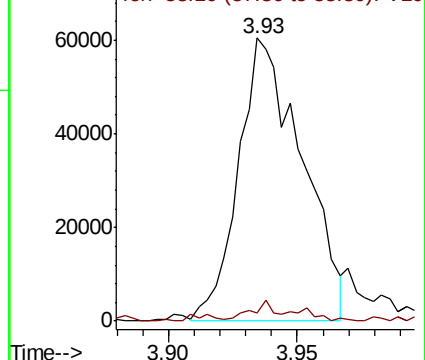
45 100

58 6.1 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.013 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.01 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Tgt Ion: 84 Resp: 88635

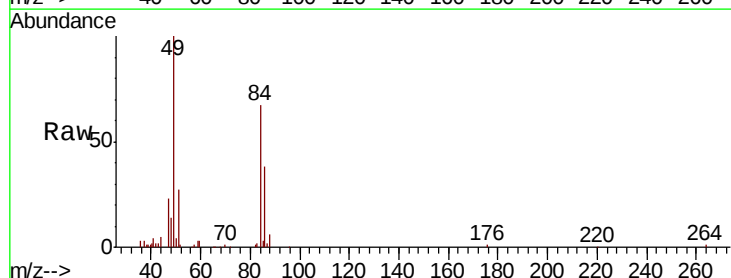
Ion Ratio Lower Upper

84 100

49 150.0 122.8 184.2

51 41.7 40.1 60.1

86 57.5 51.7 77.5

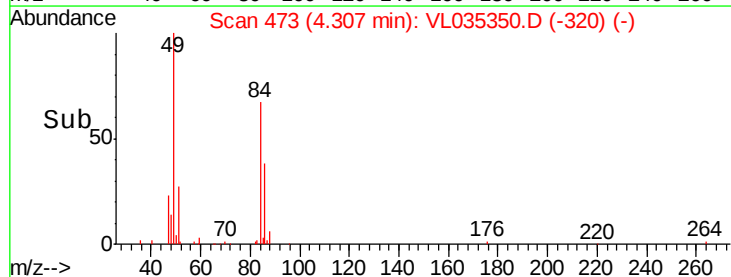
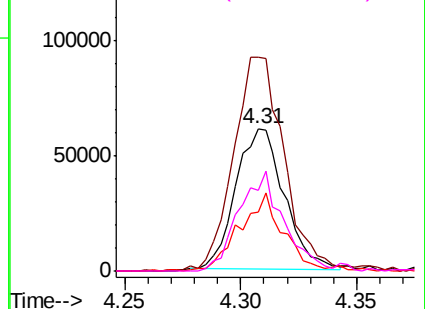


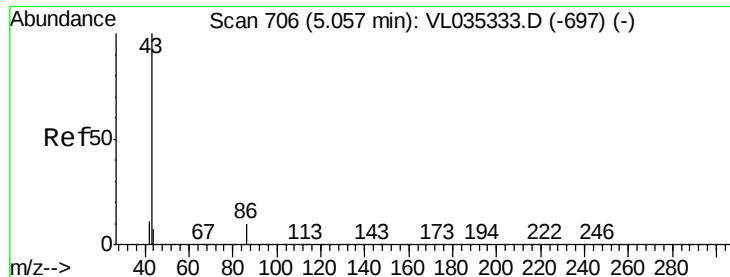
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.079 ppbv

RT: 5.04 min Scan# 700

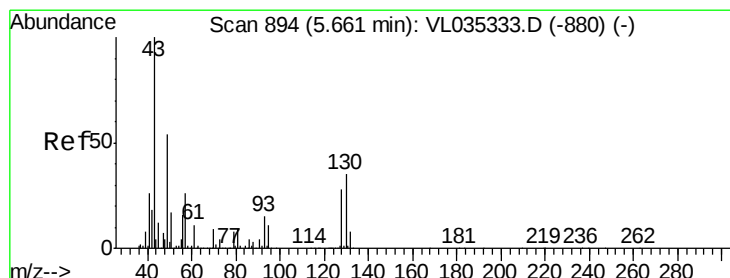
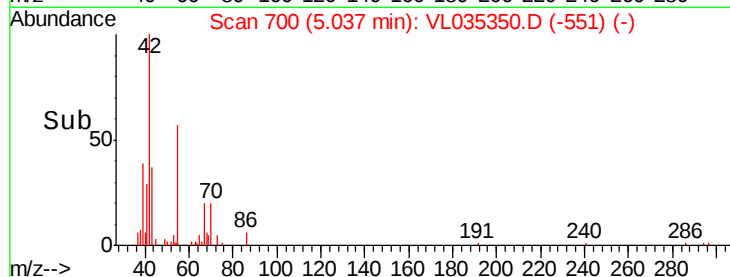
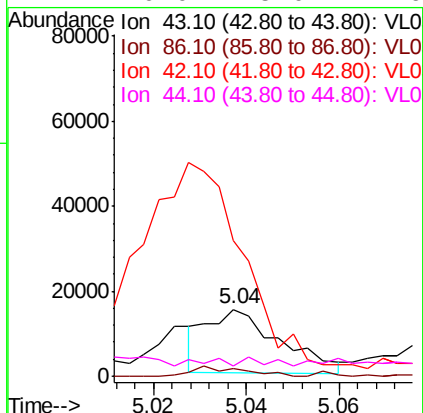
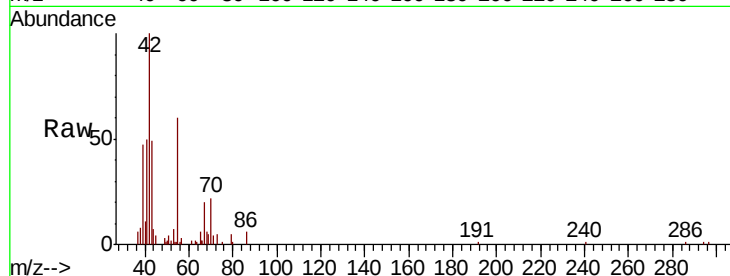
Delta R.T. -0.02 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	16162
Ion	Ratio	Lower	Upper
43	100		
86	12.8	6.9	10.3#
42	233.2	8.8	13.2#
44	0.0	5.0	7.6#



#25

Ethyl Acetate

Concen: 0.212 ppbv

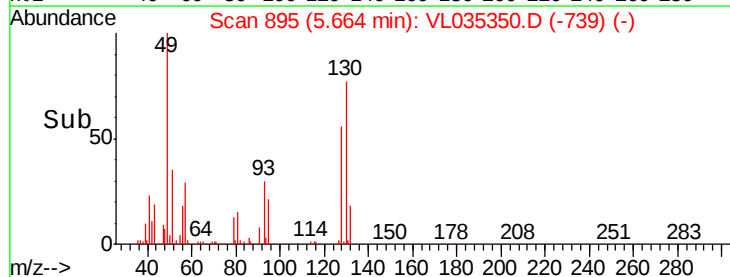
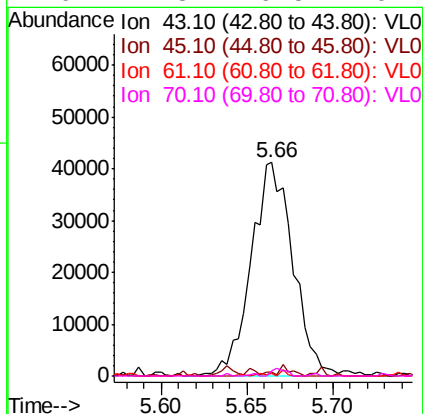
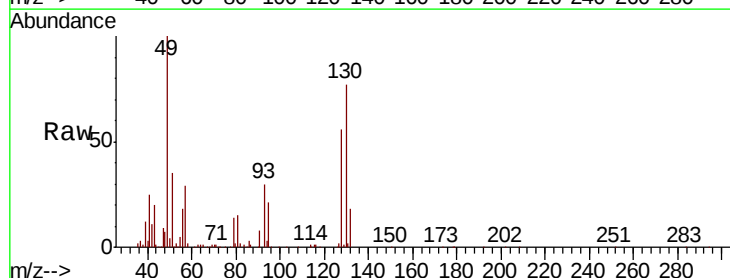
RT: 5.66 min Scan# 895

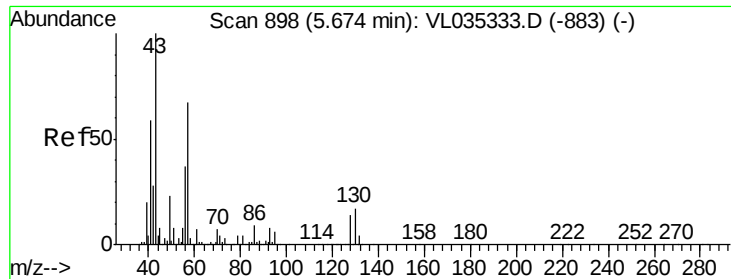
Delta R.T. 0.00 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Tgt Ion:	43	Resp:	69210
Ion	Ratio	Lower	Upper
43	100		
45	4.2	8.5	12.7#
61	1.0	8.1	12.1#
70	1.8	6.5	9.7#

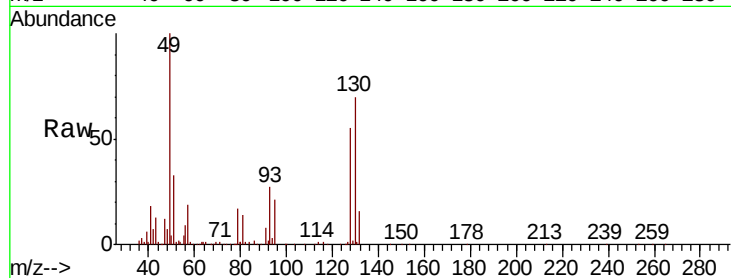




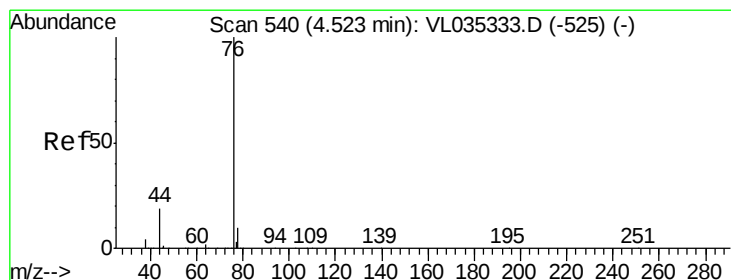
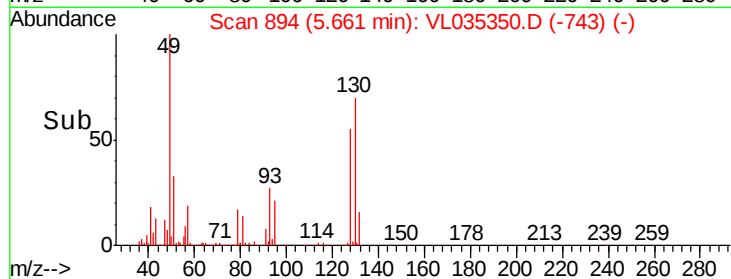
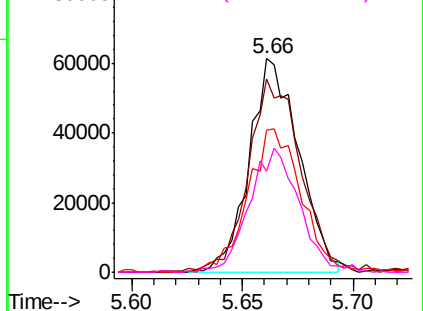
#26
Hexane
Concen: 0.676 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 95661
Ion Ratio Lower Upper
57 100
41 98.2 75.2 112.8
43 73.5 180.6 270.8#
56 59.1 43.0 64.6

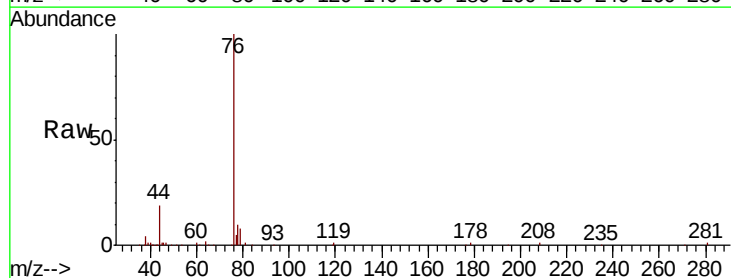


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

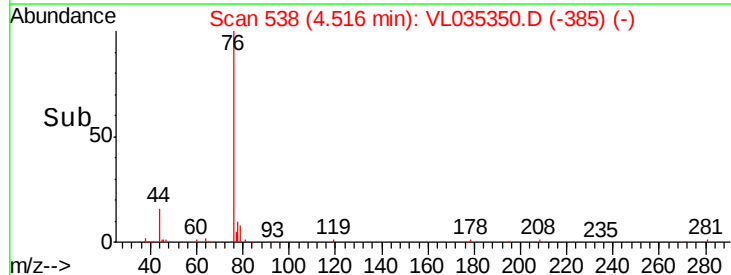
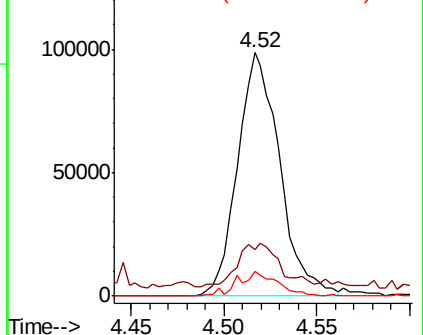


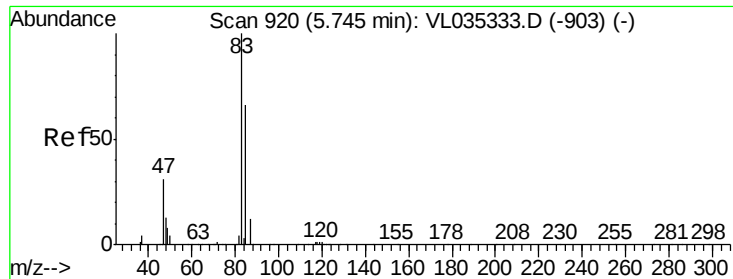
#27
Carbon Disulfide
Concen: 0.789 ppbv
RT: 4.52 min Scan# 538
Delta R.T. -0.01 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

Tgt Ion: 76 Resp: 156058
Ion Ratio Lower Upper
76 100
44 25.2 15.4 23.2#
78 9.6 7.7 11.5



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: 0.093 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.02 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Instrument :

MSVOA_L

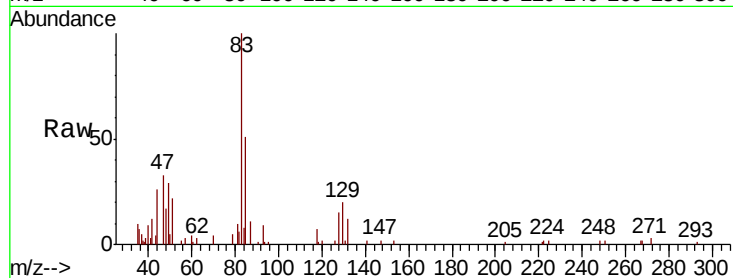
ClientSampleId :

Tot Ion: 83 Resp: 22685

Ion Ratio Lower Upper

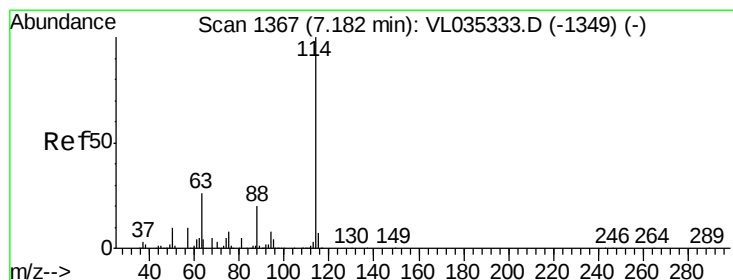
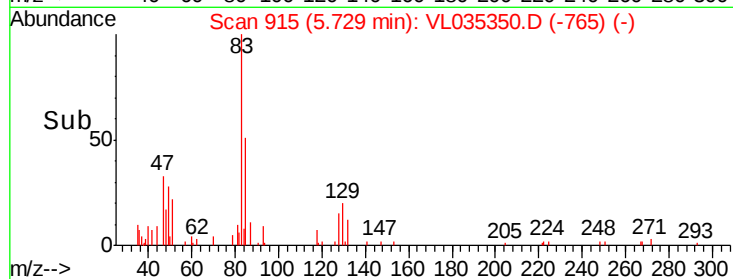
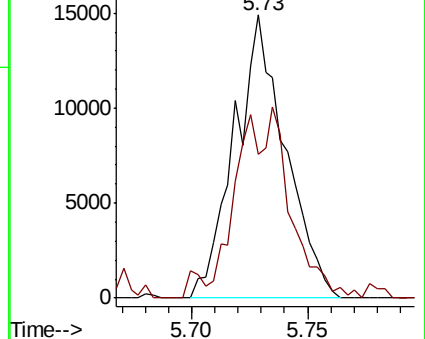
83 100

85 47.1 52.9 79.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.02 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

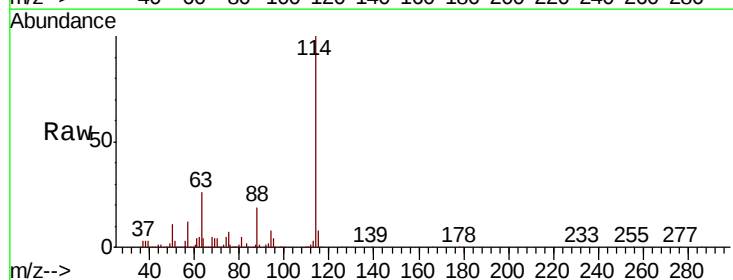
Tgt Ion: 114 Resp: 3706135

Ion Ratio Lower Upper

114 100

63 26.4 21.3 31.9

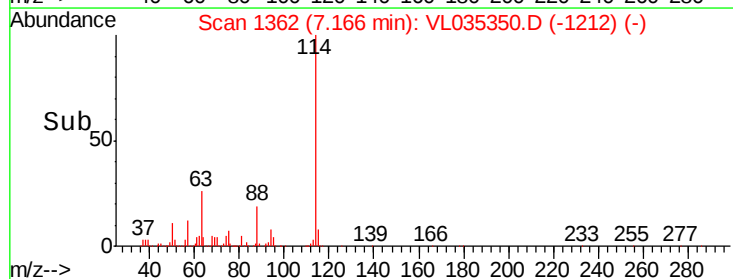
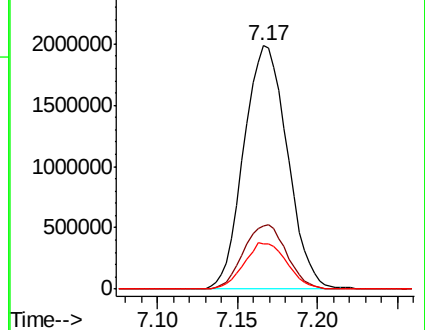
88 18.7 15.3 22.9

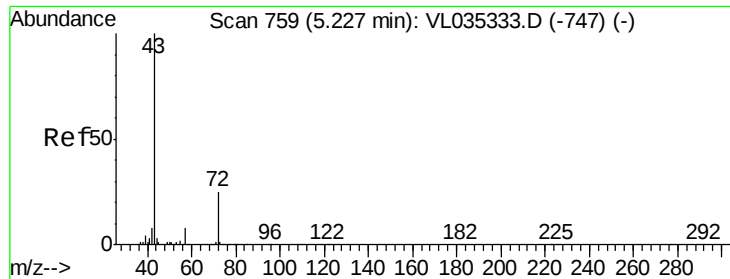


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

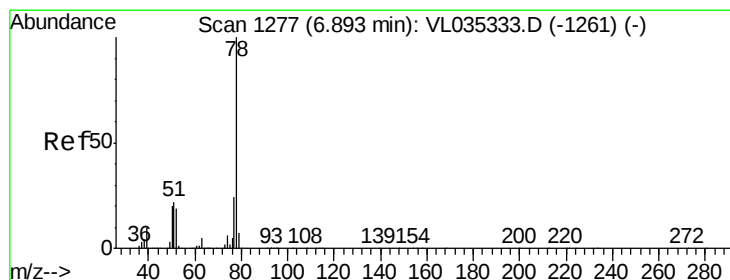
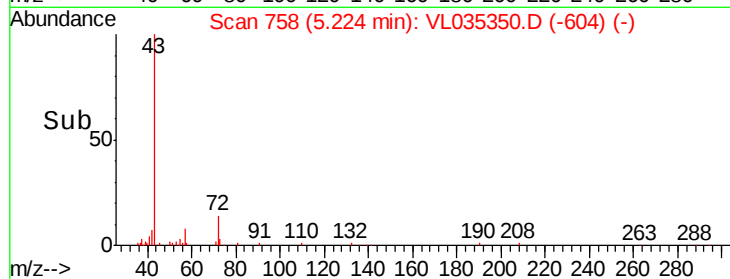
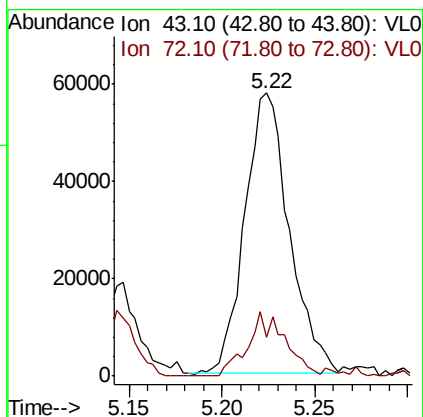
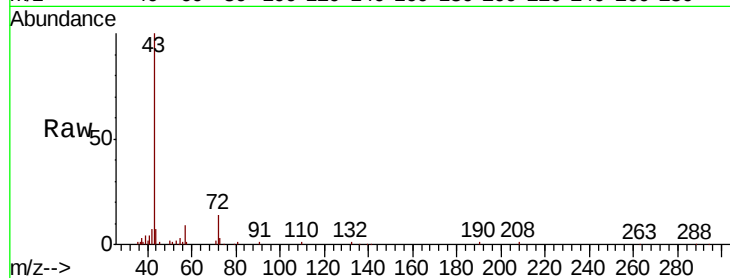




#34
2-Butanone
Concen: 0.532 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.00 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

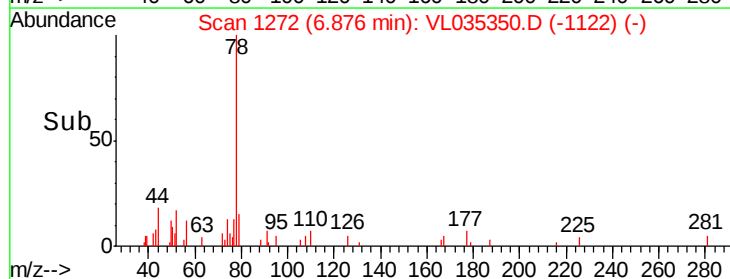
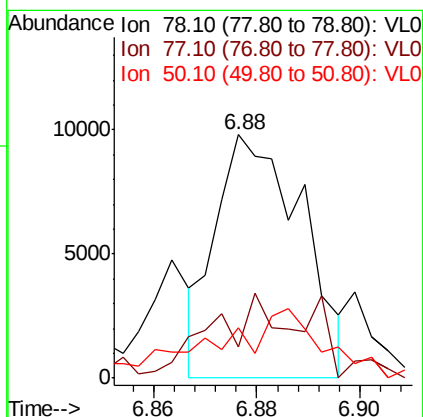
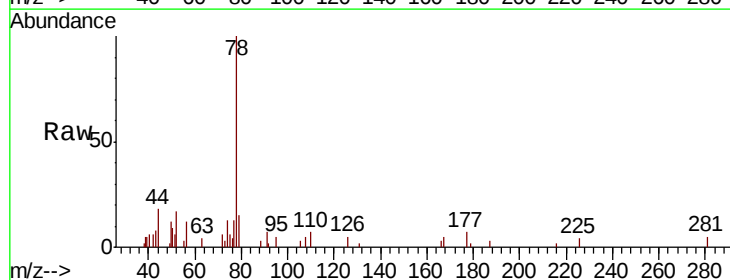
Instrument :
MSVOA_L
ClientSampleId :

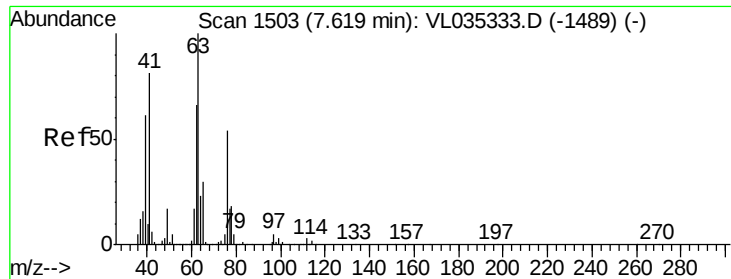
Tot Ion: 43 Resp: 97014
Ion Ratio Lower Upper
43 100
72 20.8 18.9 28.3



#36
Benzene
Concen: 0.045 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

Tgt Ion: 78 Resp: 11355
Ion Ratio Lower Upper
78 100
77 17.4 19.3 28.9#
50 13.0 16.3 24.5#

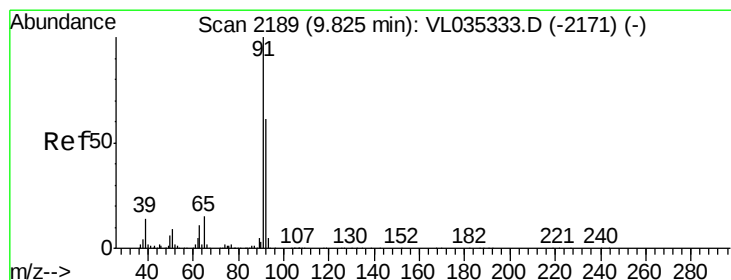
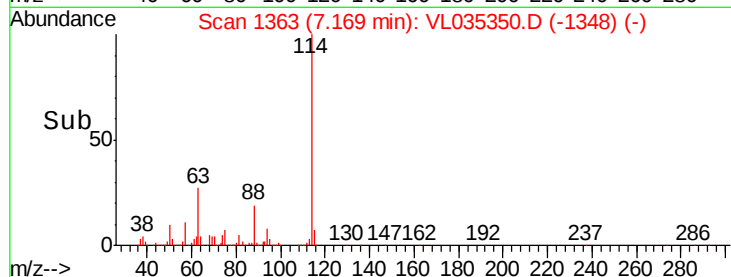
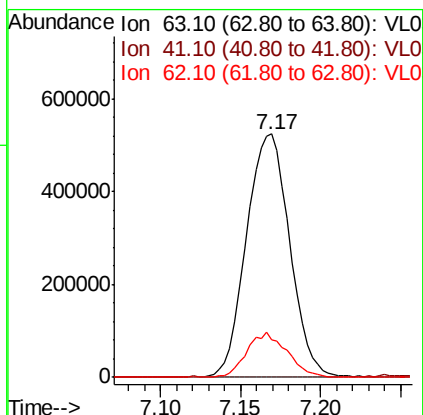
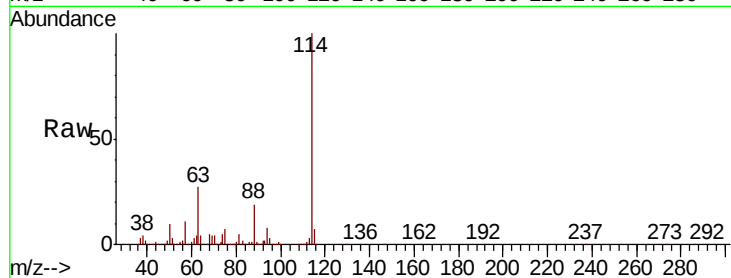




#39
 1,2-Dichloropropane
 Concen: 9.584 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL035350.D
 Acq: 6 Aug 2020 15:11

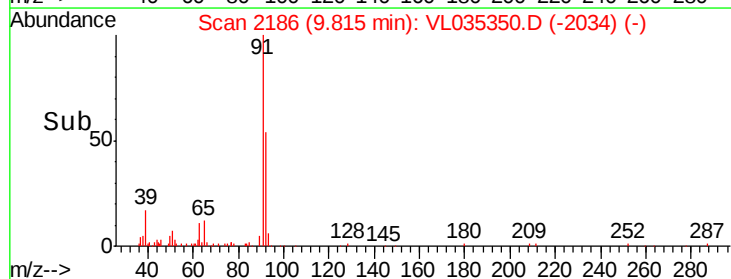
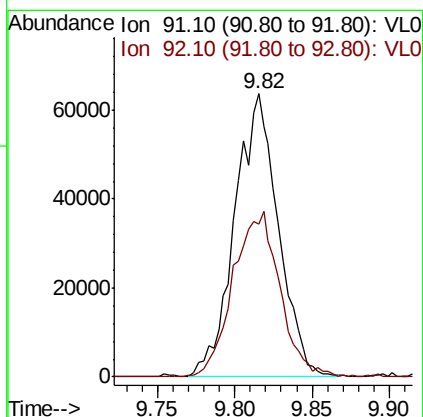
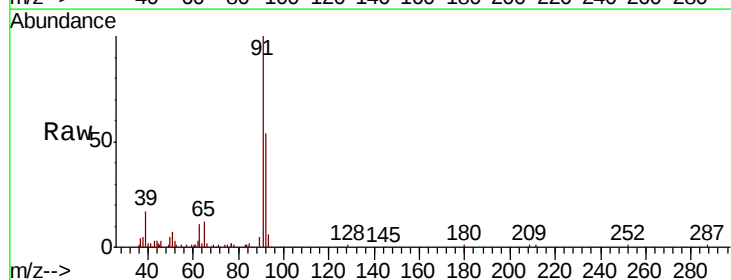
Instrument :
 MSVOA_L
 ClientSampleId :

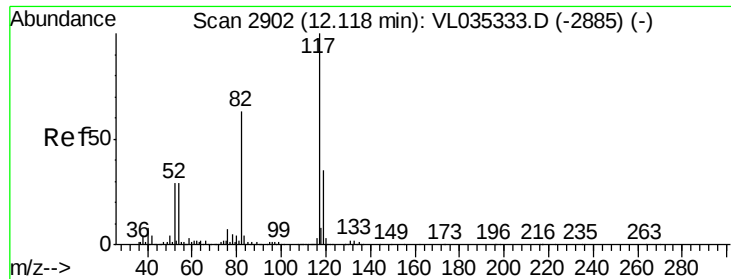
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.4	96.6#
62	15.6	52.6	78.8#



#53
 Toluene
 Concen: 0.458 ppbv
 RT: 9.82 min Scan# 2186
 Delta R.T. -0.01 min
 Lab File: VL035350.D
 Acq: 6 Aug 2020 15:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.3	48.5	72.7

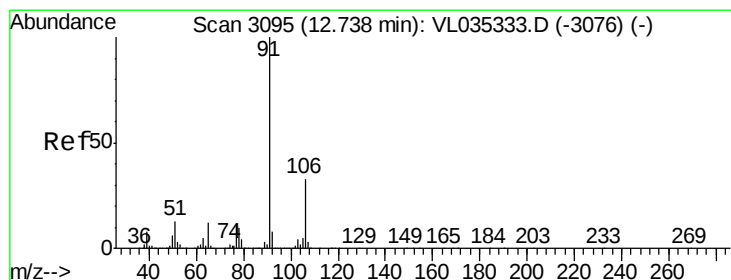
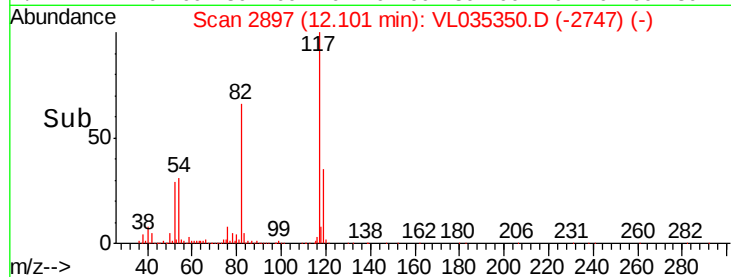
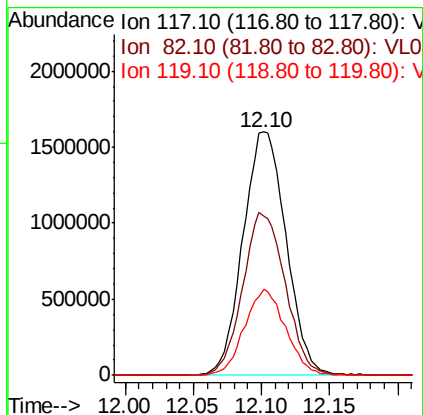
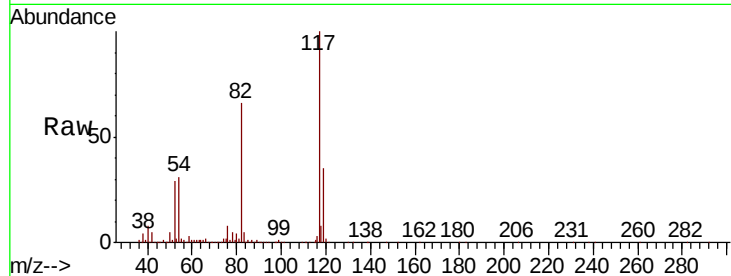




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.02 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

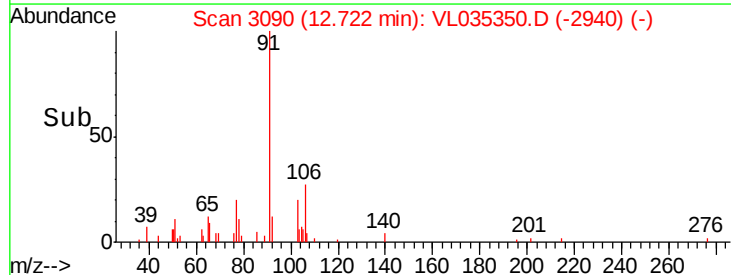
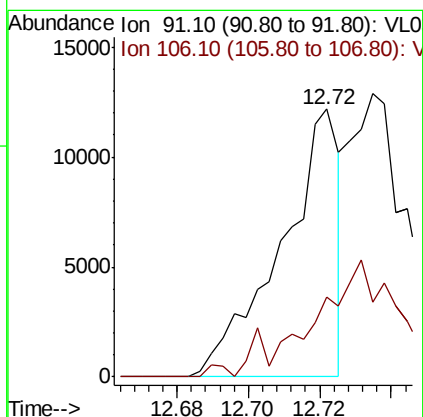
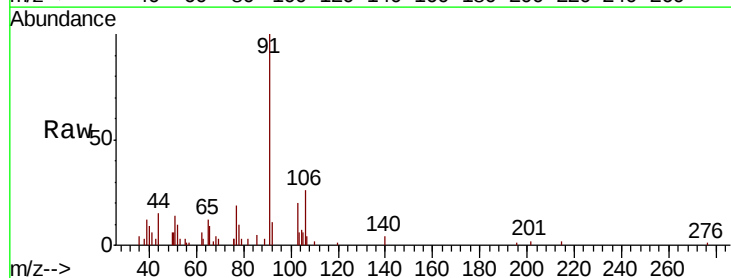
Instrument :
MSVOA_L
ClientSampleId :

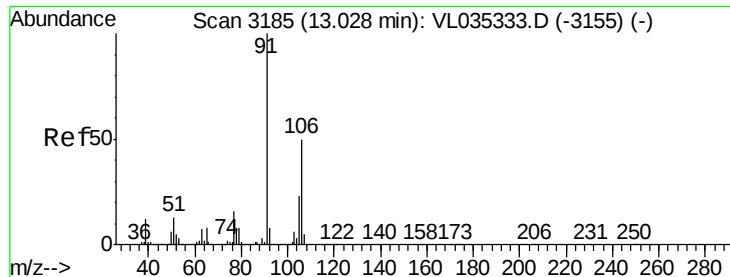
Tot Ion:117 Resp: 3517773
Ion Ratio Lower Upper
117 100
82 65.9 51.0 76.4
119 33.8 24.7 37.1



#58
Ethyl Benzene
Concen: 0.037 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

Tgt Ion: 91 Resp: 13715
Ion Ratio Lower Upper
91 100
106 30.1 26.8 40.2

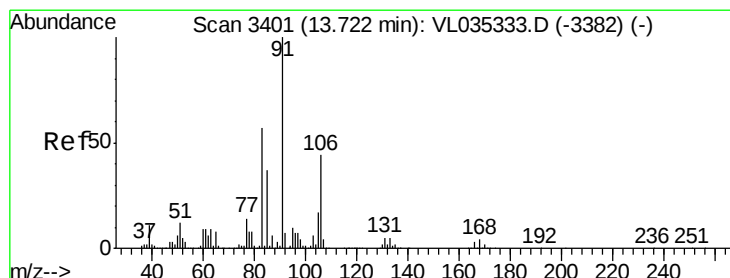
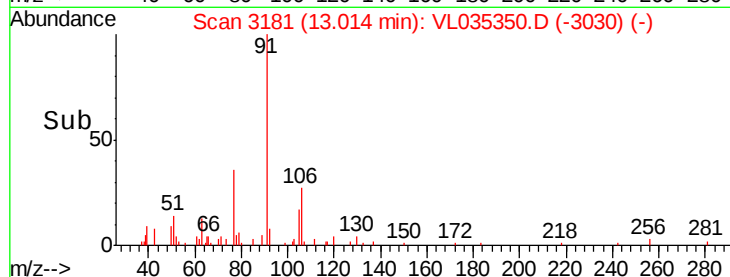
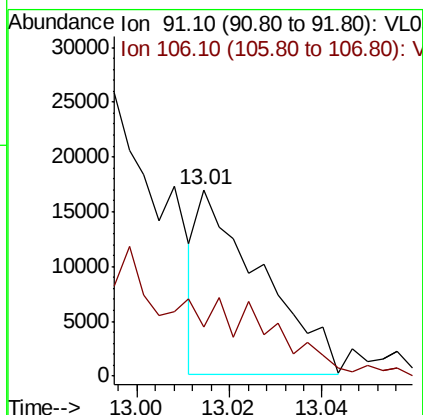
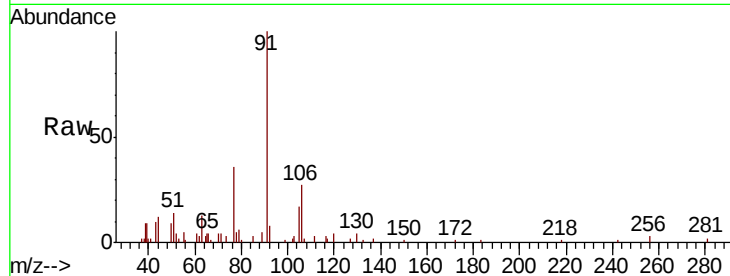




#59
m/p-Xylene
Concen: 0.047 ppbv
RT: 13.01 min Scan# 3181
Delta R.T. -0.01 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

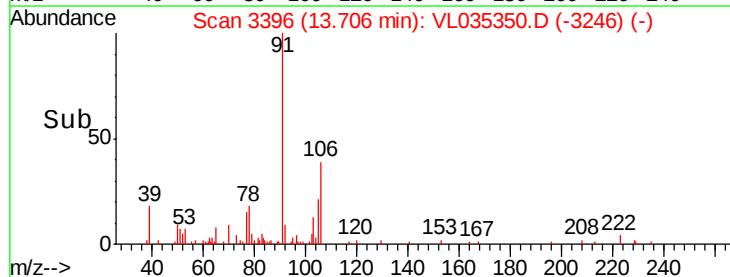
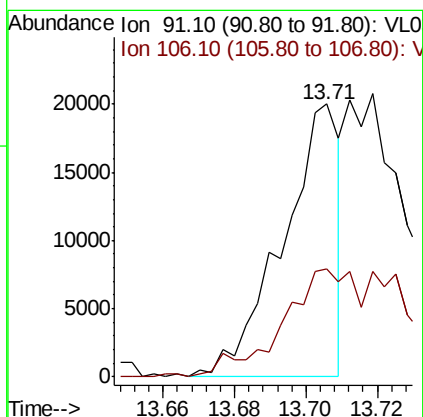
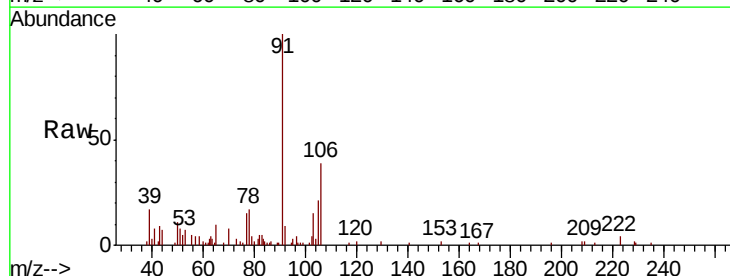
Instrument :
MSVOA_L
ClientSampled :

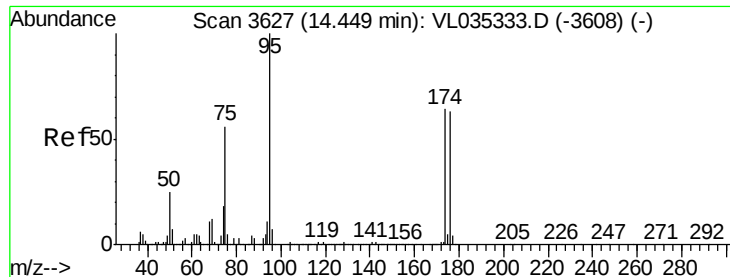
Tot Ion: 91 Resp: 15951
Ion Ratio Lower Upper
91 100
106 0.0 37.8 56.8#



#60
o-Xylene
Concen: 0.065 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL035350.D
Acq: 6 Aug 2020 15:11

Tgt Ion: 91 Resp: 21982
Ion Ratio Lower Upper
91 100
106 84.9 22.7 68.0#

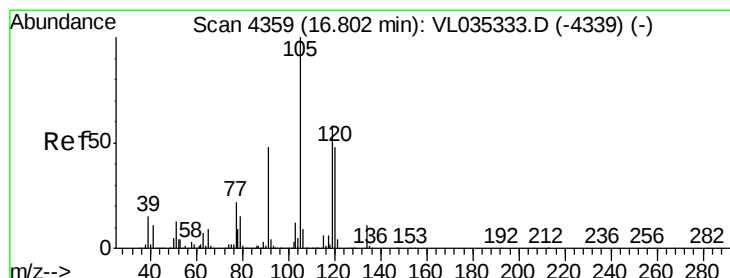
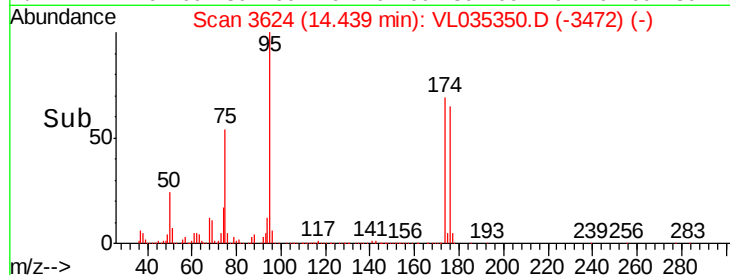
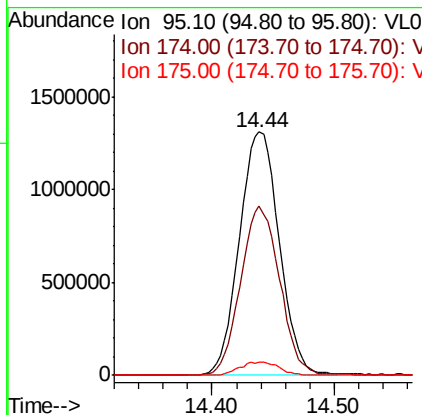
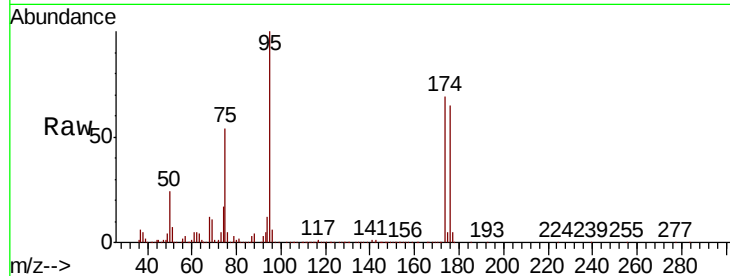




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.091 ppbv
 RT: 14.44 min Scan# 3624
 Delta R.T. -0.01 min
 Lab File: VL035350.D
 Acq: 6 Aug 2020 15:11

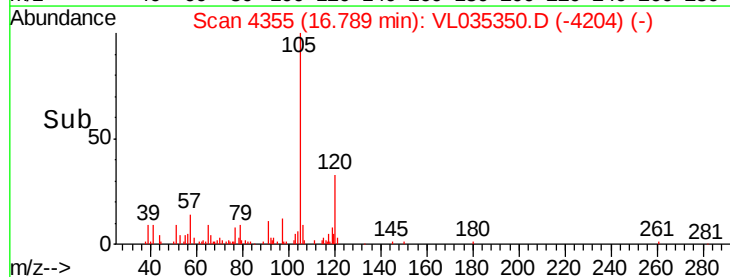
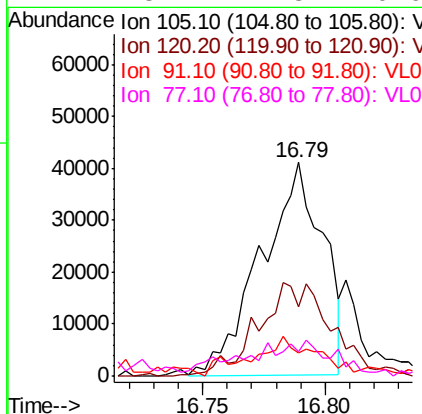
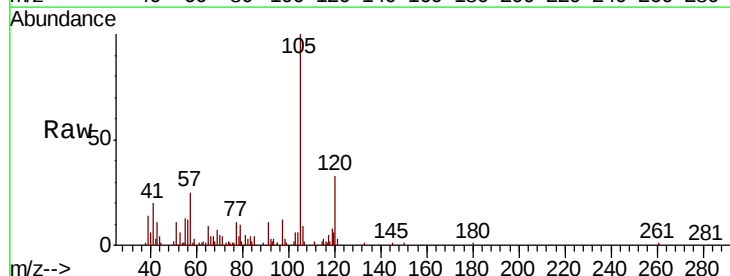
Instrument :
 MSVOA_L
 ClientSampleId :

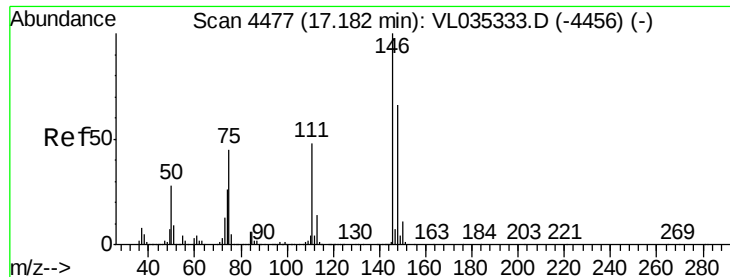
Tot Ion: 95 Resp: 2960256
 Ion Ratio Lower Upper
 95 100
 174 68.5 53.5 80.3
 175 5.5 4.2 6.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.169 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL035350.D
 Acq: 6 Aug 2020 15:11

Tgt Ion:105 Resp: 71563
 Ion Ratio Lower Upper
 105 100
 120 32.5 38.5 57.7#
 91 7.6 39.0 58.6#
 77 8.7 17.8 26.6#





#76

1,4-Dichlorobenzene

Concen: 0.041 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. -0.01 min

Lab File: VL035350.D

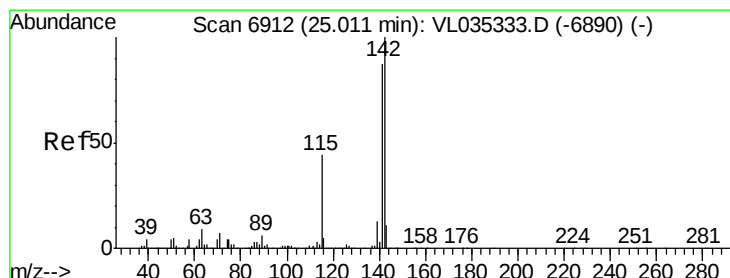
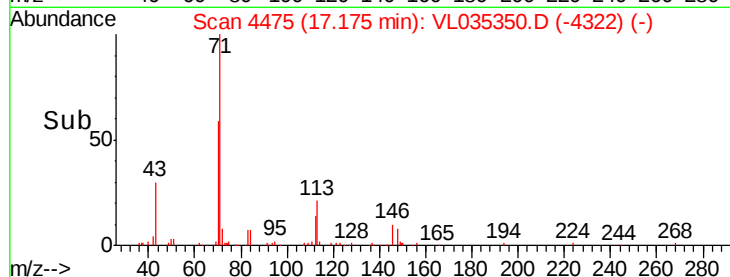
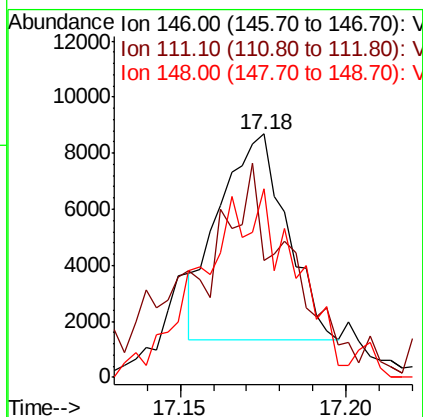
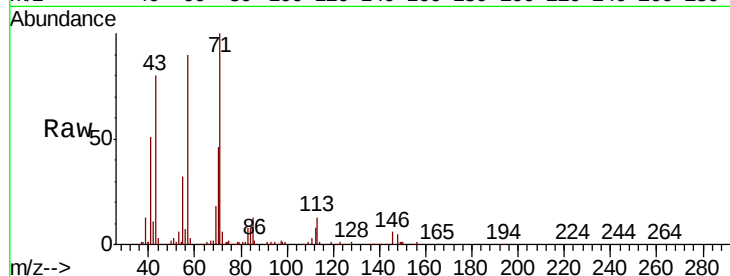
Acq: 6 Aug 2020 15:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146	Resp:	10390
Ion Ratio	Lower	Upper
146	100	
111	157.1	23.3 69.9#
148	133.0	32.1 96.5#



#80

Naphthalene, 2-methyl-

Concen: 0.065 ppbv

RT: 25.01 min Scan# 6911

Delta R.T. -0.00 min

Lab File: VL035350.D

Acq: 6 Aug 2020 15:11

Tgt Ion:142	Resp:	4839
Ion Ratio	Lower	Upper
142	100	
141	84.5	69.0 103.6
115	53.1	35.5 53.3

