

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035837.D
 Acq On : 4 Nov 2020 17:31
 Operator : SY/AP
 Sample : L4610-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 05 02:56:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1034573	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	4676906	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	4240937	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	2975660	9.88	ppbv	-0.04	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%	

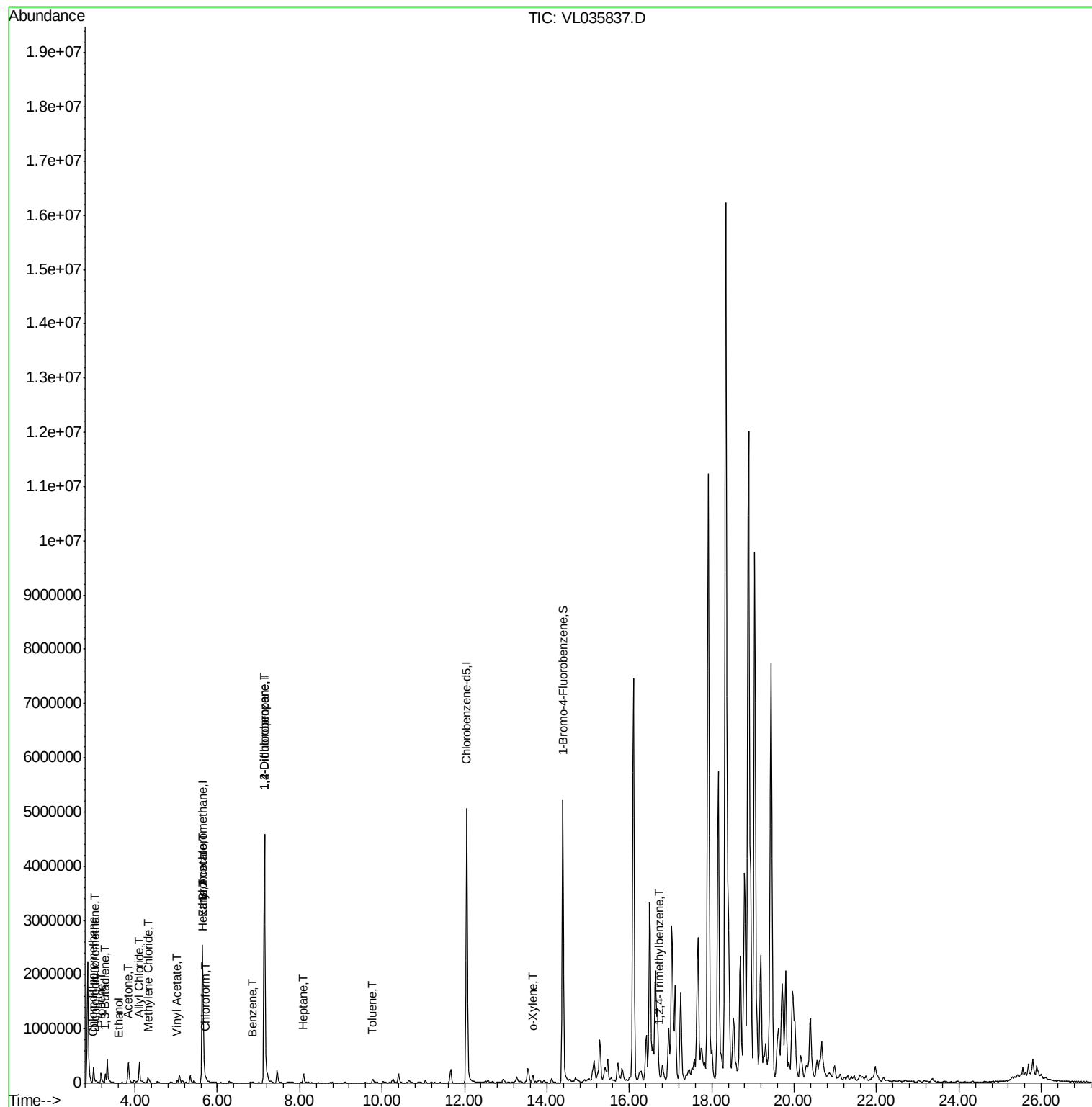
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	11311	0.058	ppbv	95
3) Chlorodifluoromethane	2.96	51	4438	0.036	ppbv #	81
9) Propene	3.18	41	52649	1.161	ppbv	83
10) Heptane	8.09	43	64688	0.516	ppbv	91
13) Ethanol	3.59	45	1509	0.153	ppbv #	35
15) Acetone	3.83	43	398981	3.607	ppbv	96
16) 1,3-Butadiene	3.29	39	46120	0.969	ppbv #	17
20) Methylene Chloride	4.31	84	51184	0.657	ppbv	92
21) Allyl Chloride	4.10	41	129519	2.165	ppbv #	39
23) Vinyl Acetate	5.02	43	13567	0.088	ppbv #	1
25) Ethyl Acetate	5.65	43	105421	0.484	ppbv #	72
26) Hexane	5.66	57	200365	1.667	ppbv #	44
29) Chloroform	5.72	83	17867	0.076	ppbv	87
36) Benzene	6.86	78	11346	0.033	ppbv	94
39) 1,2-Dichloropropane	7.14	63	850936	7.269	ppbv #	30
53) Toluene	9.77	91	65855	0.157	ppbv	99
60) o-Xylene	13.65	91	15160	0.036	ppbv #	28
74) 1,2,4-Trimethylbenzene	16.73	105	31570	0.062	ppbv #	66

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.03 min

Lab File: VL035837.D

Acq: 4 Nov 2020 17:31

Instrument :

MSVOA_L

ClientSampleId :

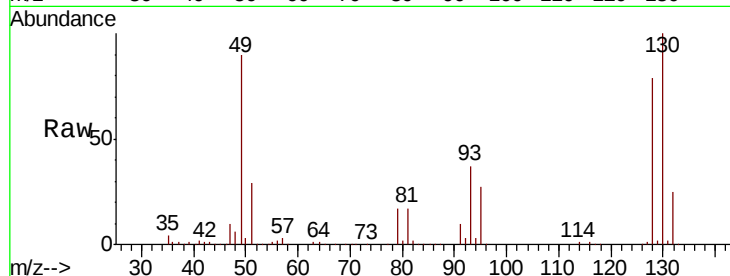
Tot Ion: 49 Resp: 1034573

Ion Ratio Lower Upper

49 100

128 91.8 41.5 124.6

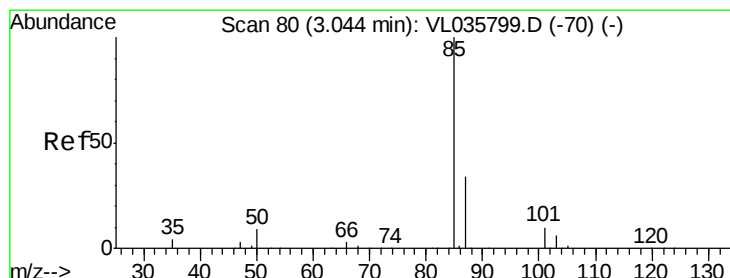
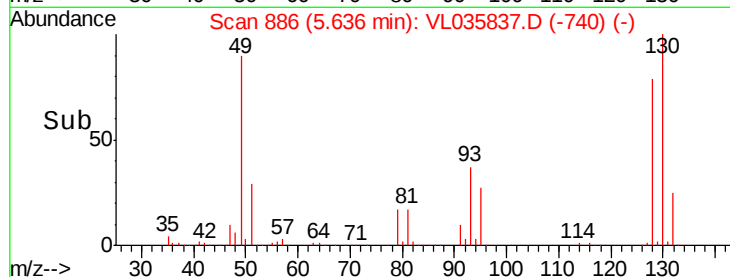
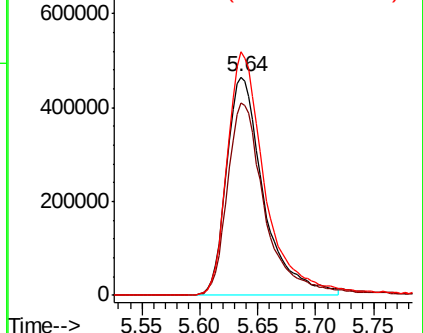
130 115.4 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035837.D

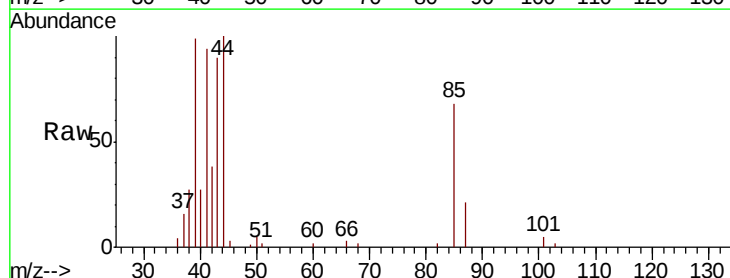
Acq: 4 Nov 2020 17:31

Tgt Ion: 85 Resp: 11311

Ion Ratio Lower Upper

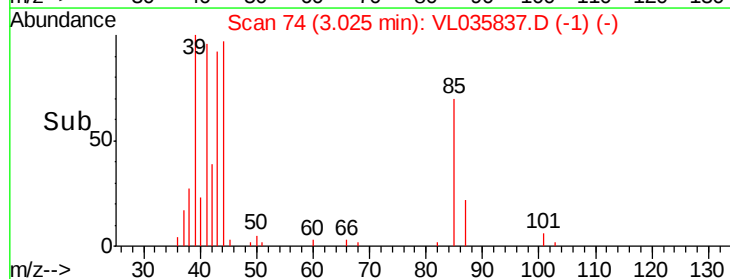
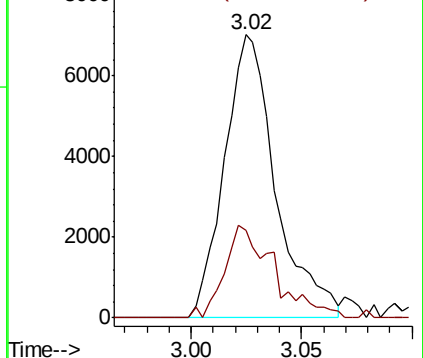
85 100

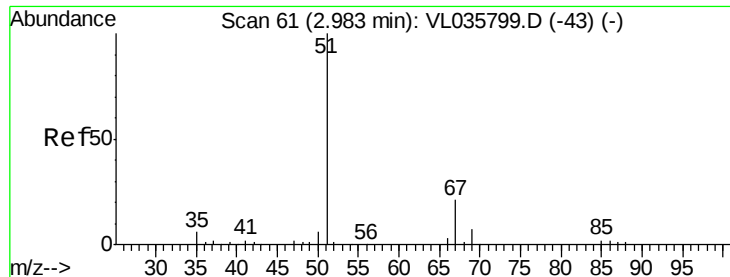
87 31.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.036 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035837.D

Acq: 4 Nov 2020 17:31

Instrument :

MSVOA_L

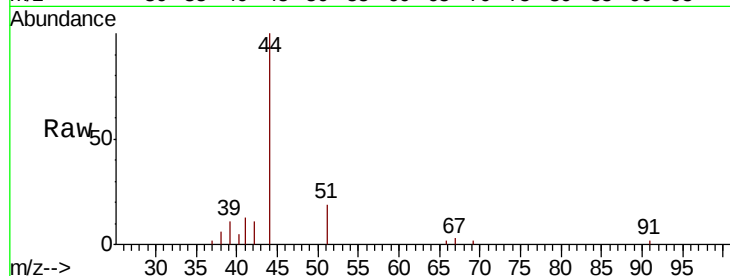
ClientSampleId :

Tot Ion: 51 Resp: 4438

Ion Ratio Lower Upper

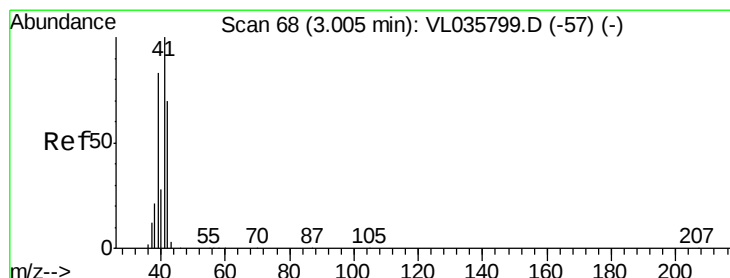
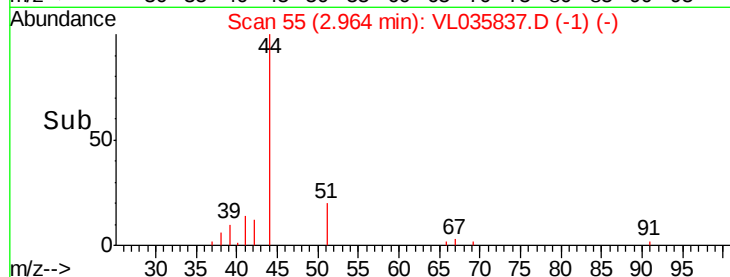
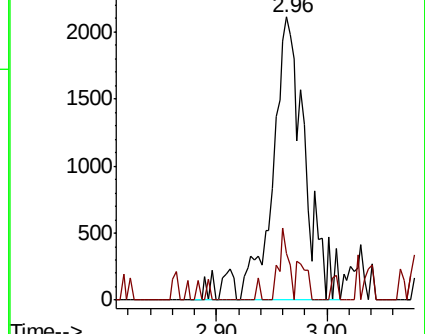
51 100

67 12.2 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 1.161 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.17 min

Lab File: VL035837.D

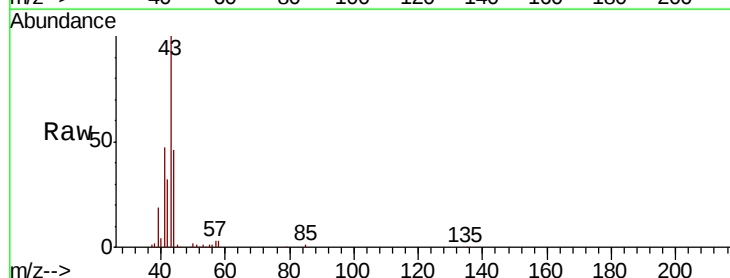
Acq: 4 Nov 2020 17:31

Tgt Ion: 41 Resp: 52649

Ion Ratio Lower Upper

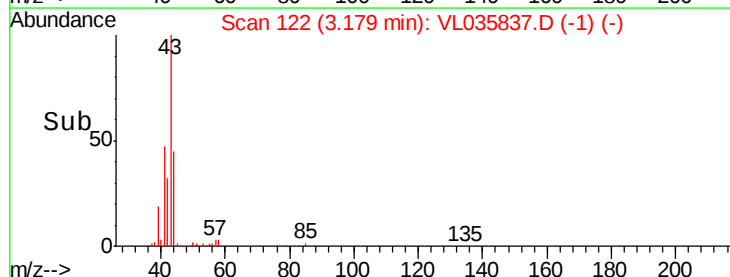
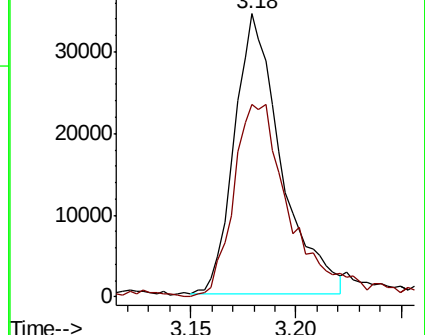
41 100

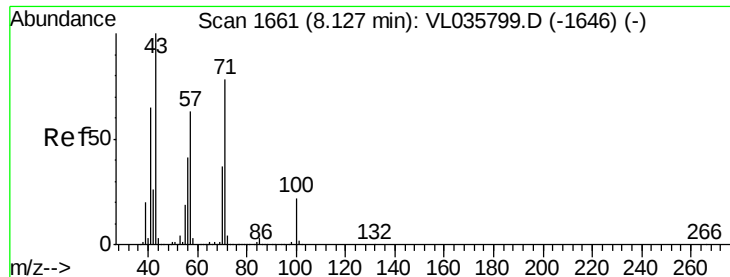
42 84.1 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.516 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.04 min

Lab File: VL035837.D

Acq: 4 Nov 2020 17:31

Instrument :

MSVOA_L

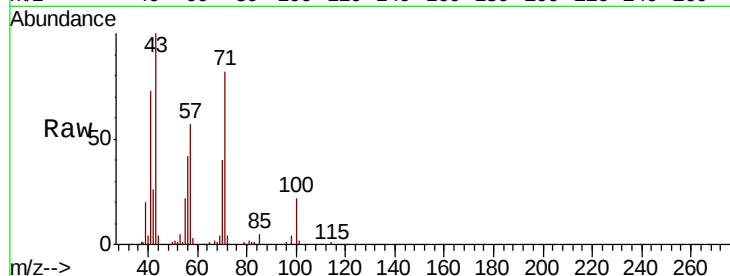
ClientSampleId :

Tot Ion: 43 Resp: 64688

Ion Ratio Lower Upper

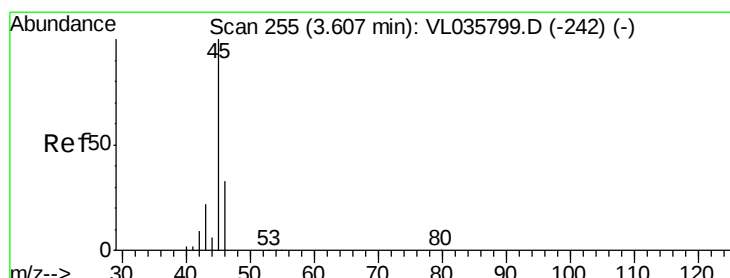
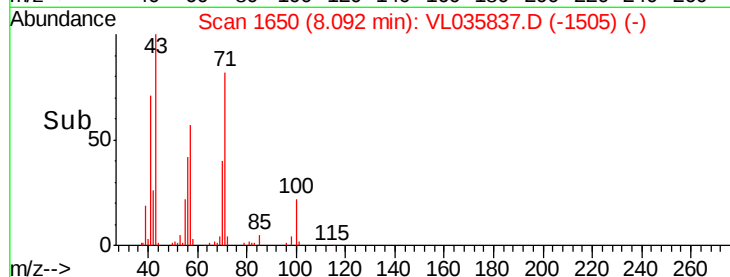
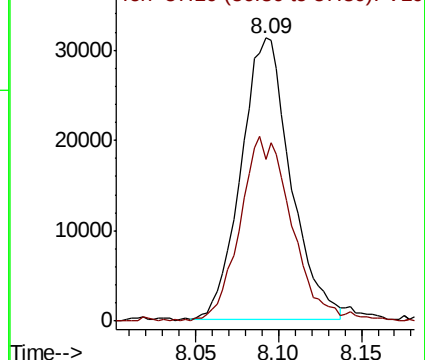
43 100

57 69.2 50.0 75.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 0.153 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL035837.D

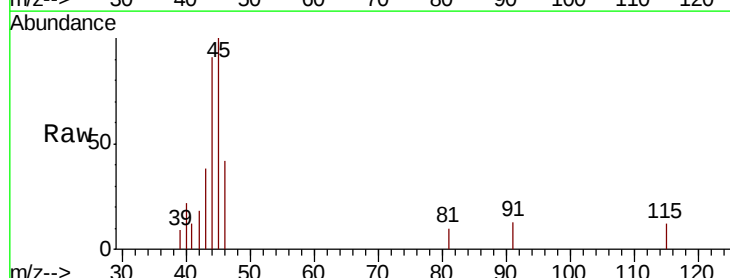
Acq: 4 Nov 2020 17:31

Tgt Ion: 45 Resp: 1509

Ion Ratio Lower Upper

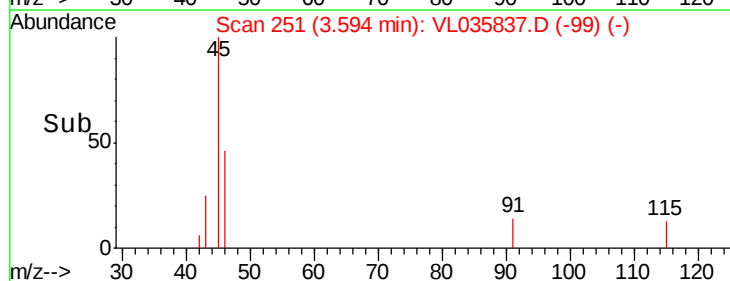
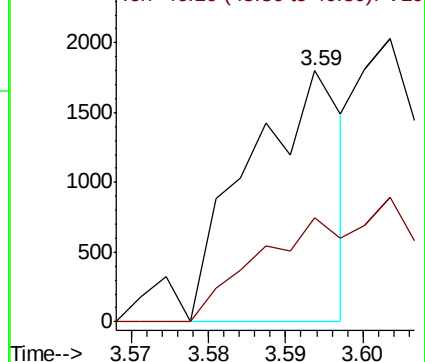
45 100

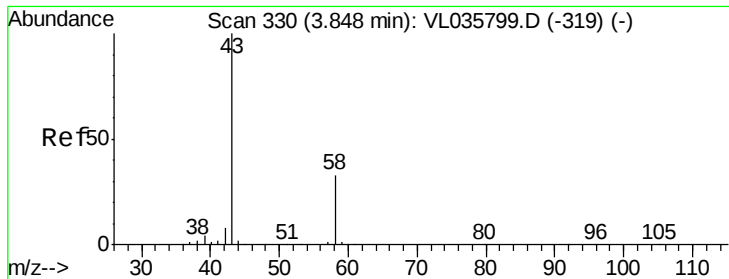
46 0.0 16.1 64.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.607 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL035837.D

Acq: 4 Nov 2020 17:31

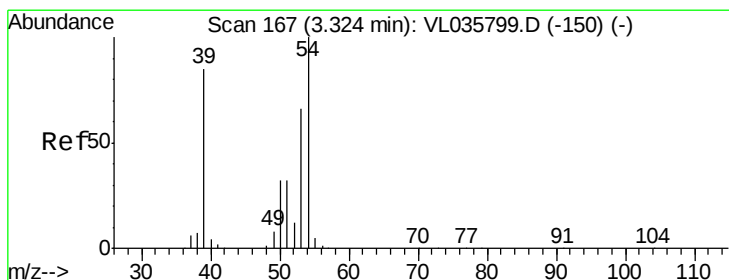
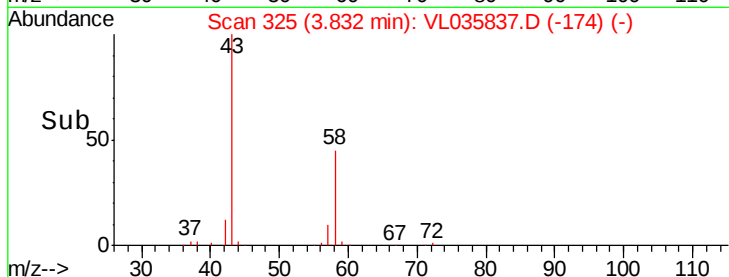
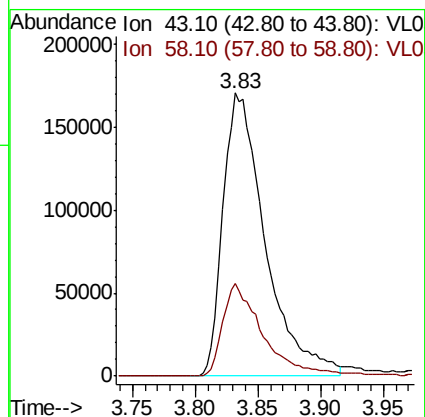
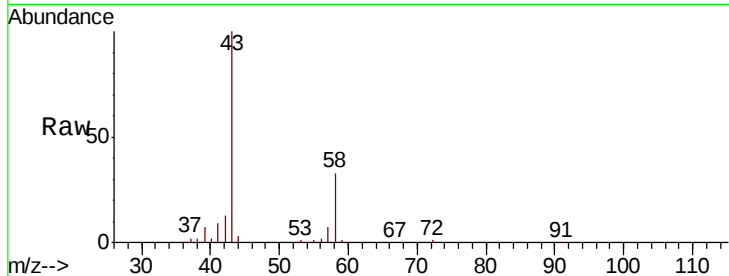
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 398981

Ion Ratio Lower Upper

43 100

58 32.2 27.5 41.3



#16

1,3-Butadiene

Concen: 0.969 ppbv

RT: 3.29 min Scan# 155

Delta R.T. -0.04 min

Lab File: VL035837.D

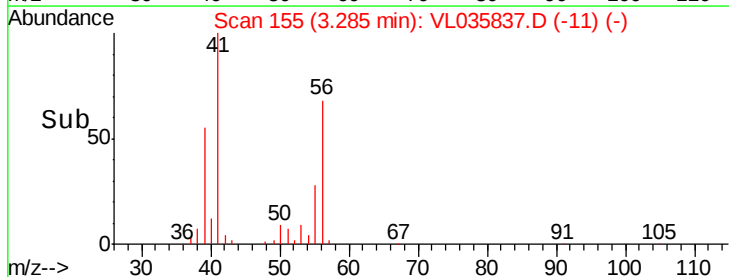
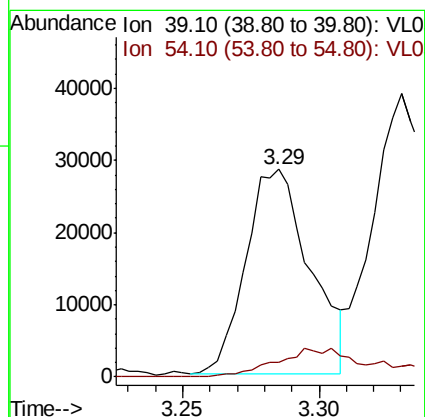
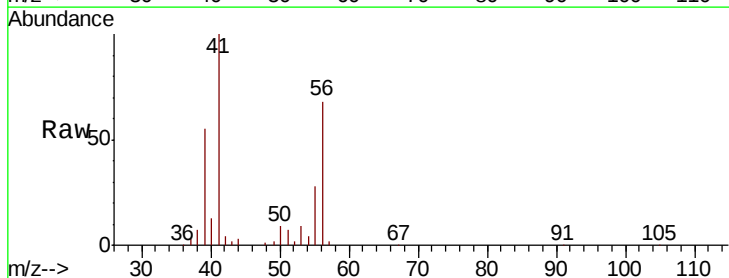
Acq: 4 Nov 2020 17:31

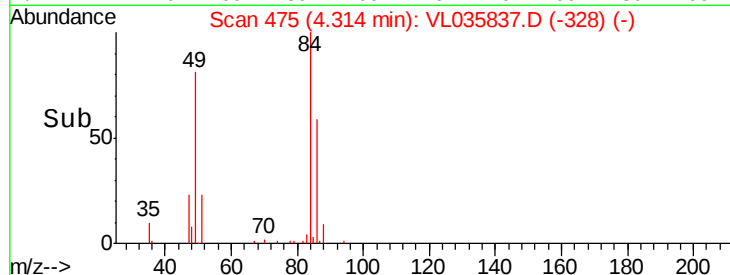
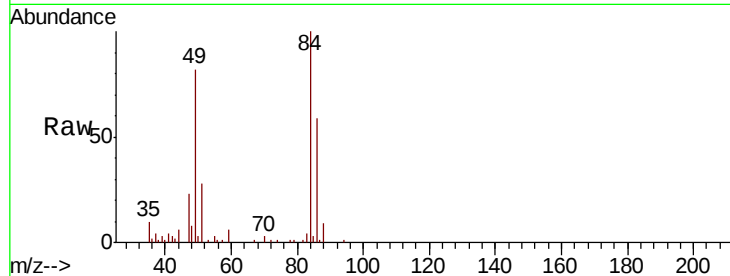
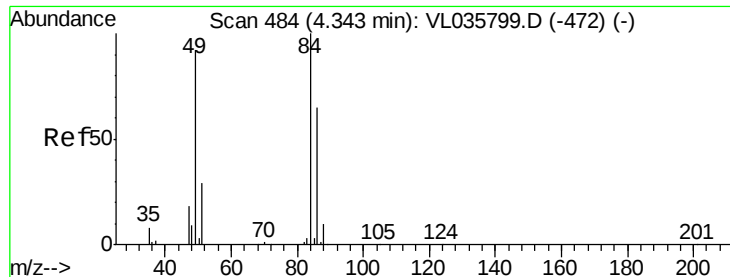
Tgt Ion: 39 Resp: 46120

Ion Ratio Lower Upper

39 100

54 21.7 87.1 130.7#

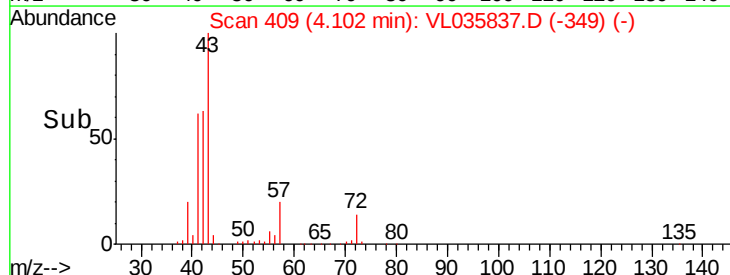
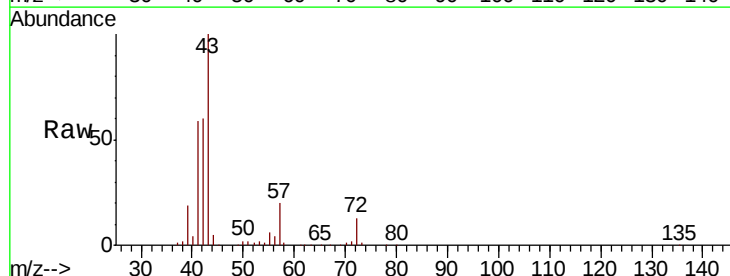
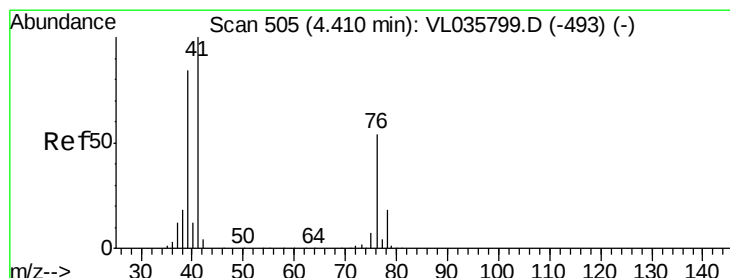
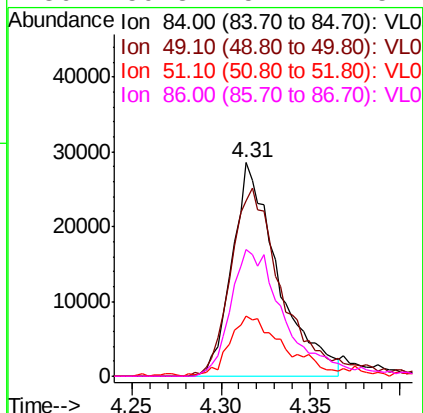




#20
Methylene Chloride
Concen: 0.657 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.03 min
Lab File: VL035837.D
Acq: 4 Nov 2020 17:31

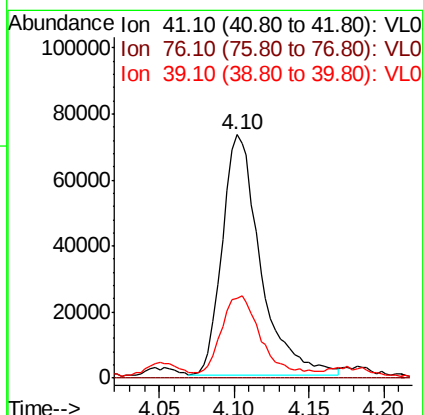
Instrument :
MSVOA_L
ClientSampleId :

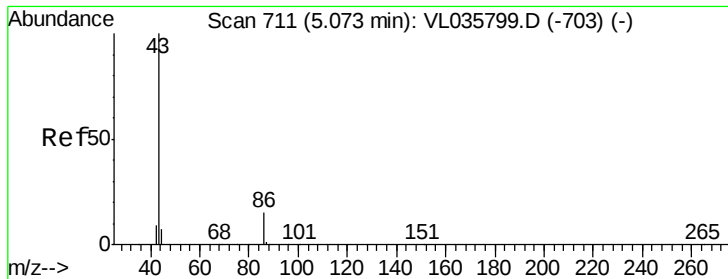
Tot Ion:	84	Resp:	51184
Ion	Ratio	Lower	Upper
84	100		
49	82.0	73.8	110.8
51	27.0	23.0	34.4
86	59.3	52.1	78.1



#21
Allyl Chloride
Concen: 2.165 ppbv
RT: 4.10 min Scan# 409
Delta R.T. -0.31 min
Lab File: VL035837.D
Acq: 4 Nov 2020 17:31

Tgt Ion:	41	Resp:	129519
Ion	Ratio	Lower	Upper
41	100		
76	0.0	42.6	63.8#
39	35.8	67.0	100.4#

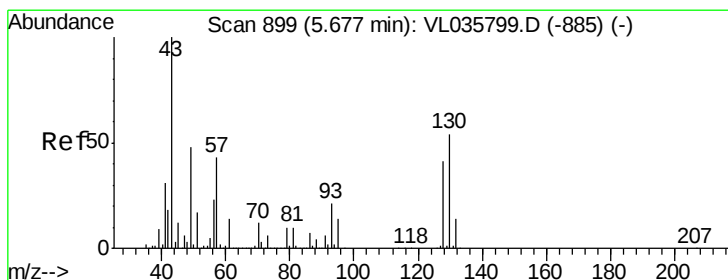
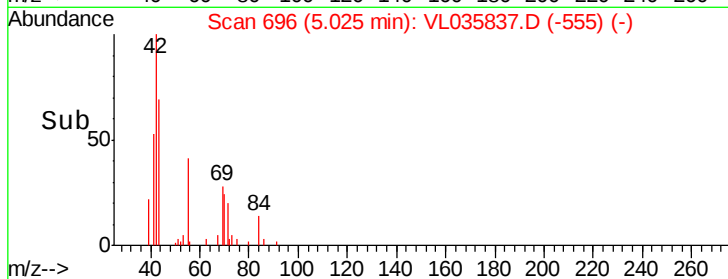
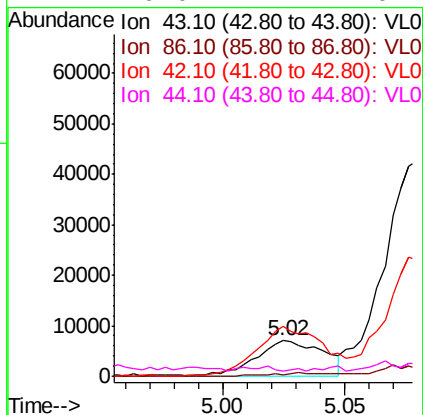
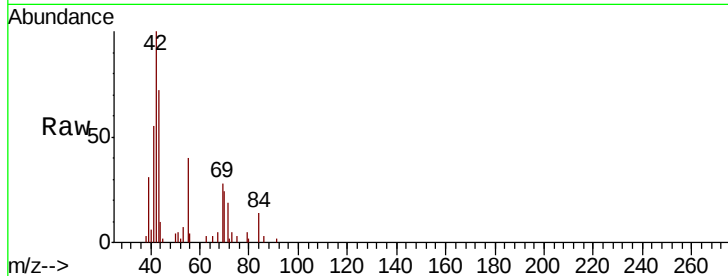




#23
 Vinyl Acetate
 Concen: 0.088 ppbv
 RT: 5.02 min Scan# 696
 Delta R.T. -0.05 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

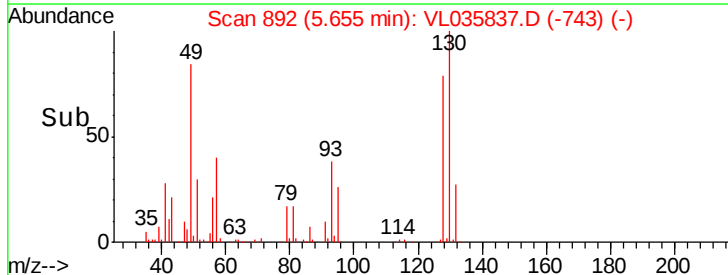
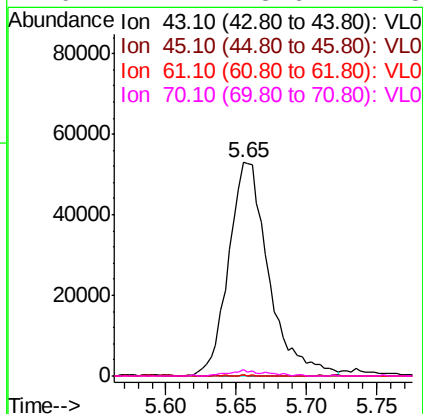
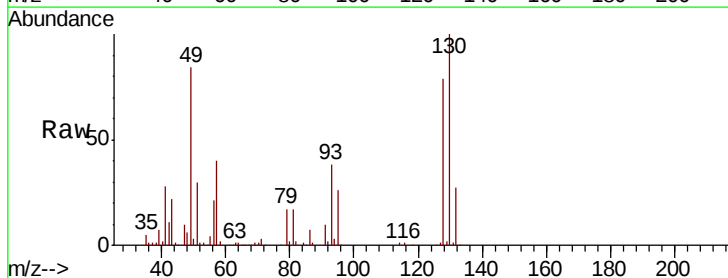
Instrument :
 MSVOA_L
 ClientSampleId :

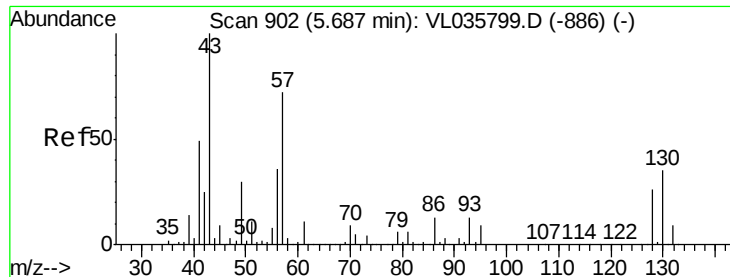
Tot Ion:	43	Resp:	13567
Ion	Ratio	Lower	Upper
43	100		
86	4.1	9.8	14.6#
42	137.7	8.1	12.1#
44	0.0	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 0.484 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. -0.02 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

Tgt Ion:	43	Resp:	105421
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.5	12.7#
61	0.2	10.7	16.1#
70	2.4	8.6	12.8#

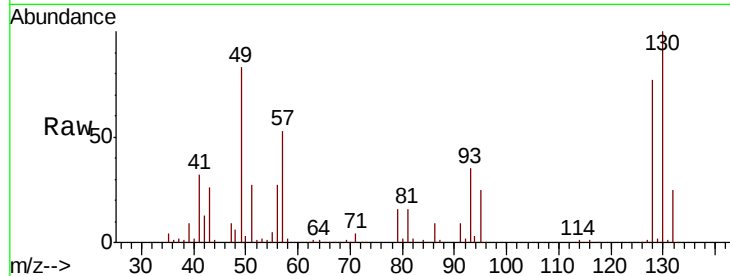




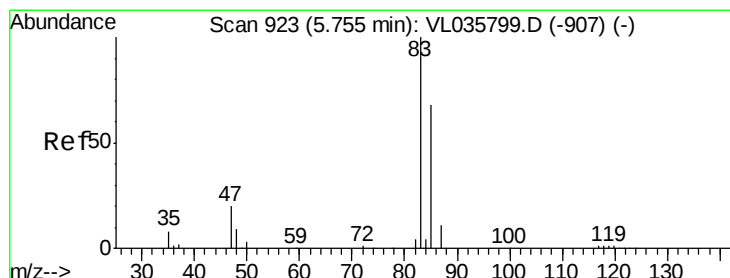
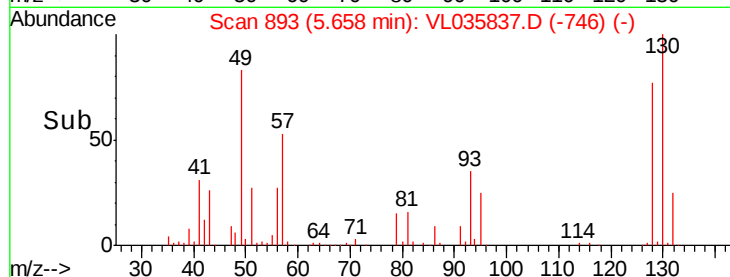
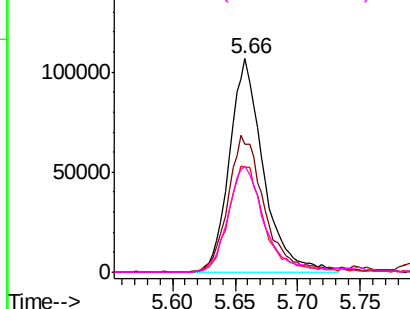
#26
Hexane
Concen: 1.667 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035837.D
Acq: 4 Nov 2020 17:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 200365
Ion Ratio Lower Upper
57 100
41 68.7 58.9 88.3
43 54.5 150.2 225.2#
56 53.1 42.4 63.6

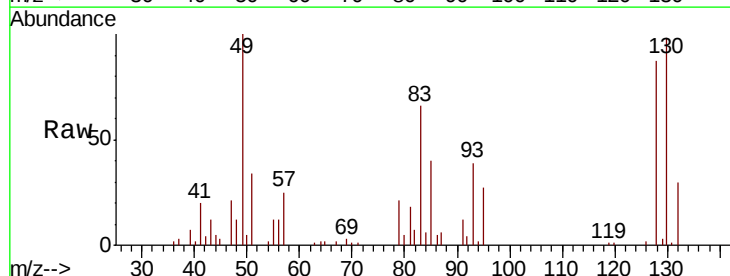


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

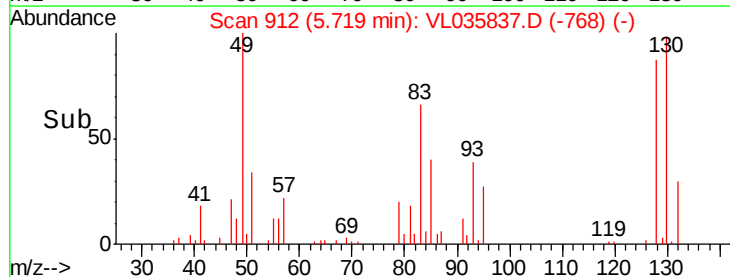
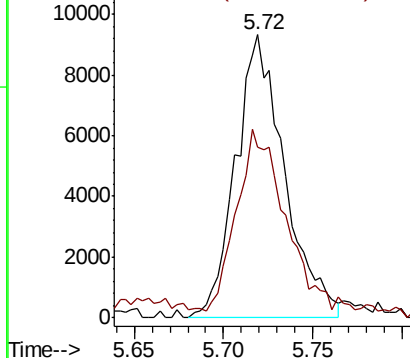


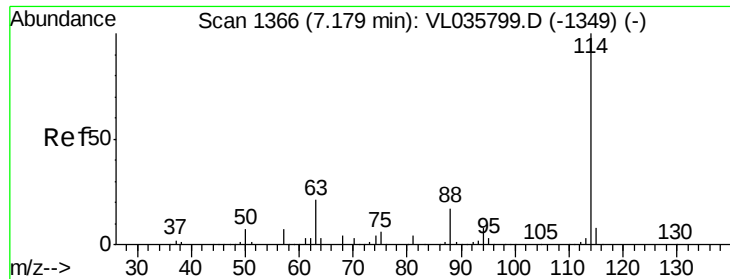
#29
Chloroform
Concen: 0.076 ppbv
RT: 5.72 min Scan# 912
Delta R.T. -0.04 min
Lab File: VL035837.D
Acq: 4 Nov 2020 17:31

Tgt Ion: 83 Resp: 17867
Ion Ratio Lower Upper
83 100
85 57.3 54.6 81.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

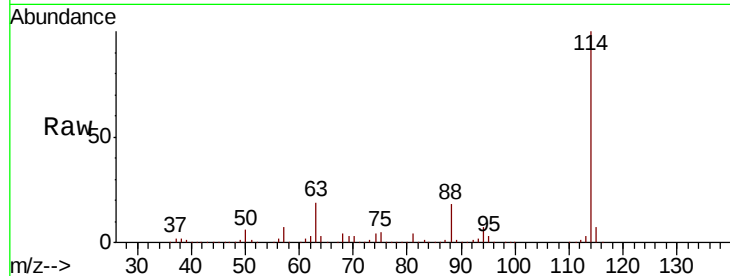




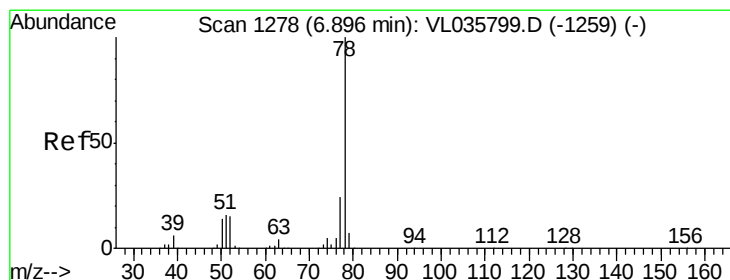
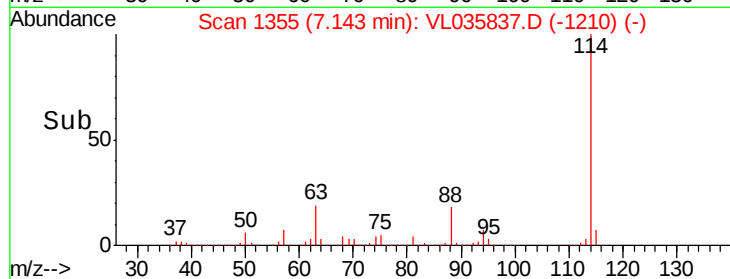
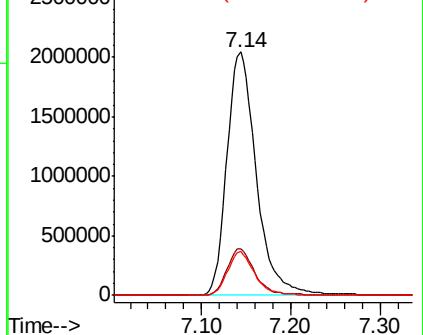
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1355
 Delta R.T. -0.04 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4676906
 Ion Ratio Lower Upper
 114 100
 63 18.5 16.1 24.1
 88 16.8 13.7 20.5

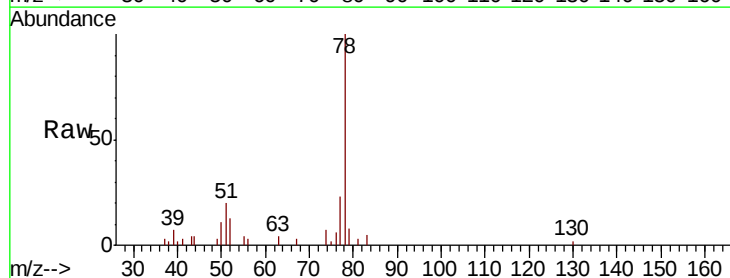


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

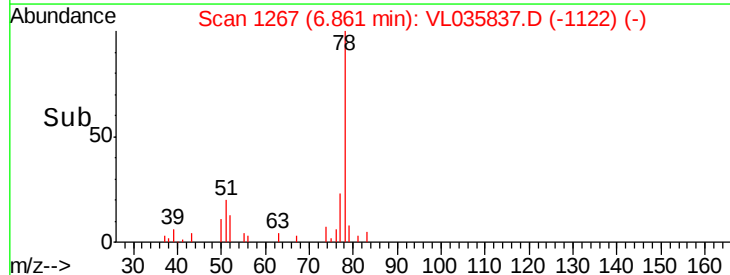
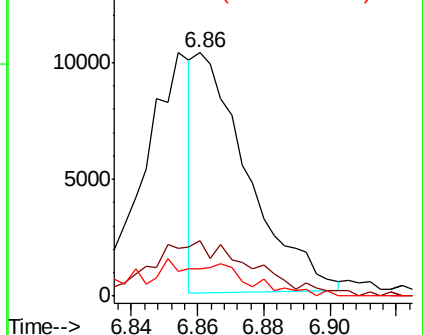


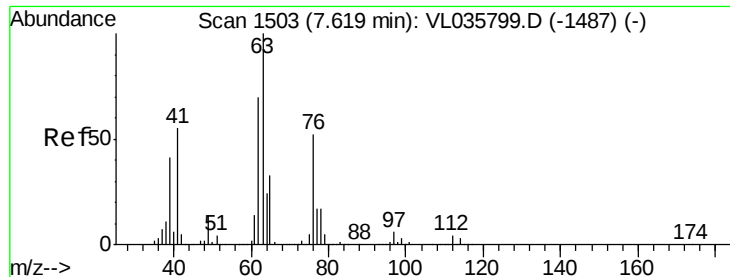
#36
 Benzene
 Concen: 0.033 ppbv
 RT: 6.86 min Scan# 1267
 Delta R.T. -0.04 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

Tgt Ion: 78 Resp: 11346
 Ion Ratio Lower Upper
 78 100
 77 21.5 19.3 28.9
 50 11.8 11.4 17.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0

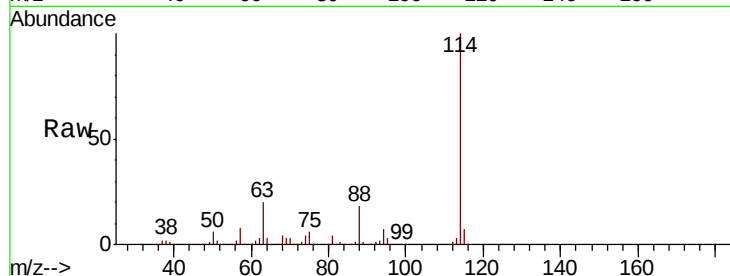




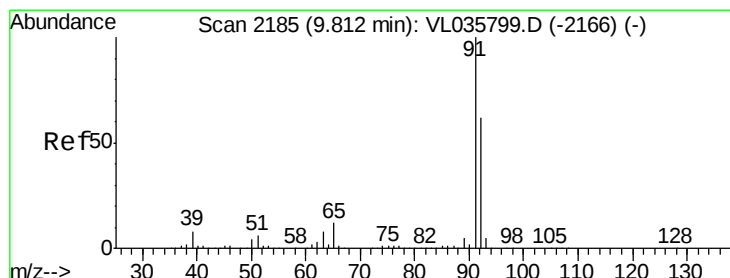
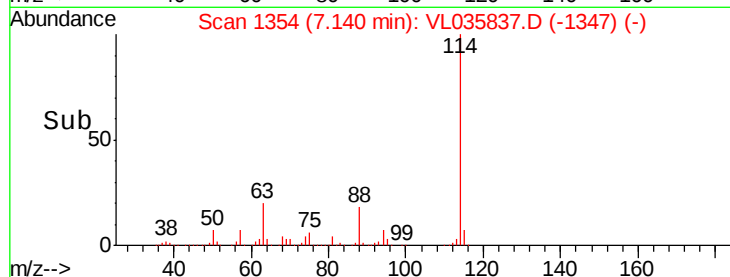
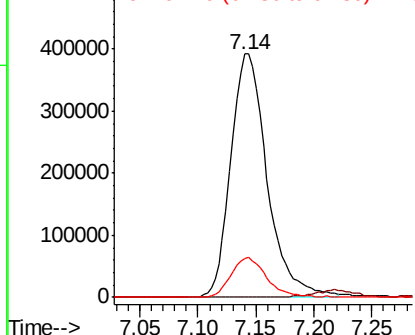
#39
 1,2-Dichloropropane
 Concen: 7.269 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.48 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	43.8	65.6#
62	15.9	56.2	84.2#

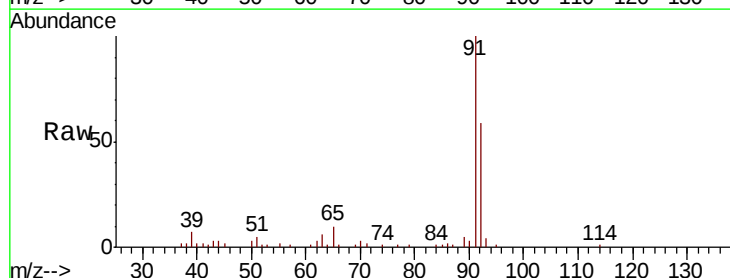


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

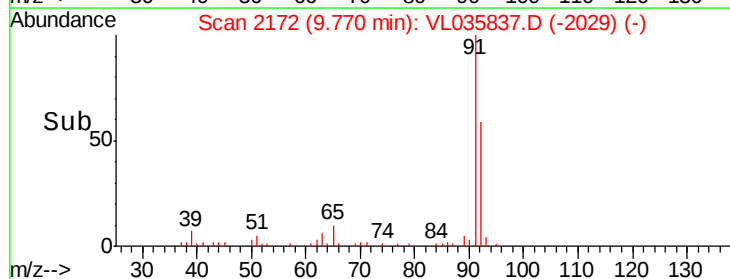
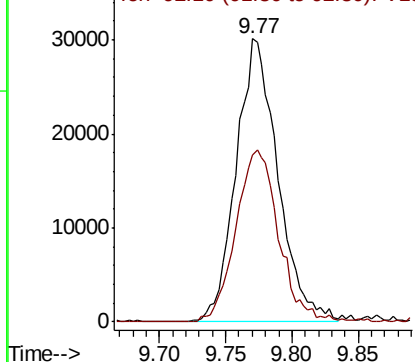


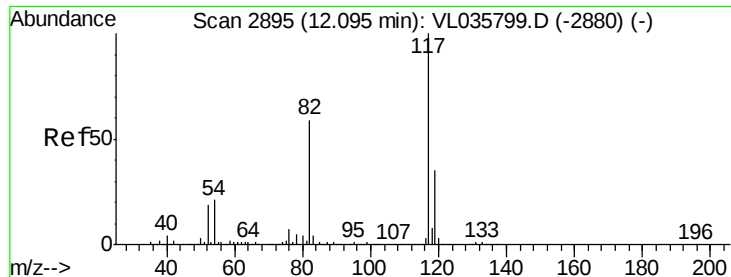
#53
 Toluene
 Concen: 0.157 ppbv
 RT: 9.77 min Scan# 2172
 Delta R.T. -0.04 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.6	49.8	74.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

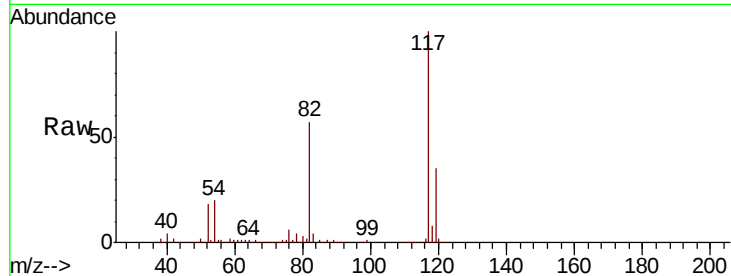




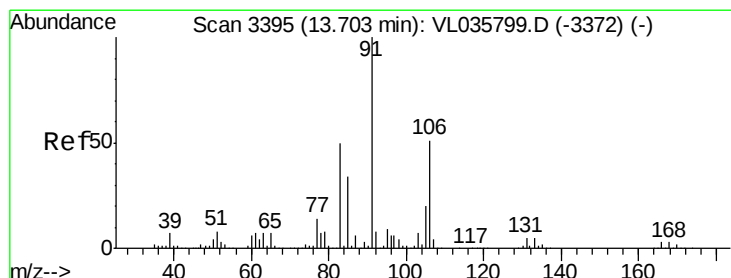
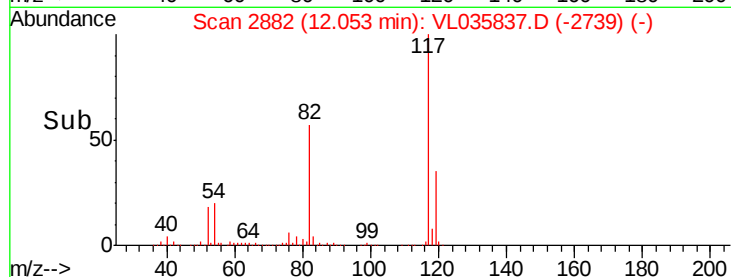
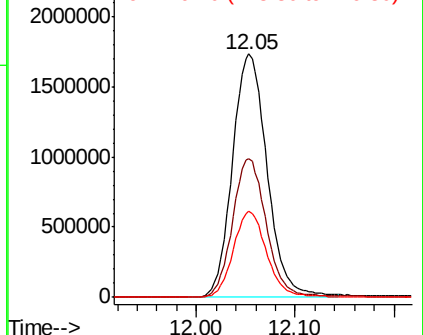
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2882
Delta R.T. -0.04 min
Lab File: VL035837.D
Acq: 4 Nov 2020 17:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 4240937
Ion Ratio Lower Upper
117 100
82 56.9 50.6 76.0
119 34.6 52.6 78.8#

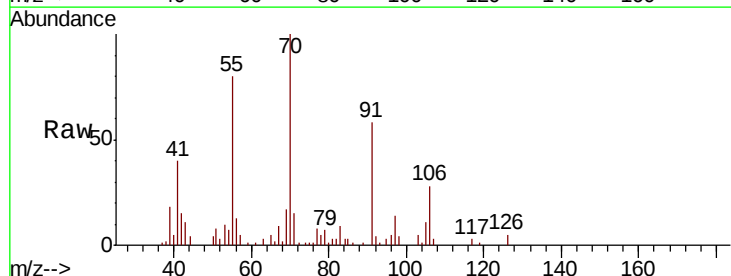


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

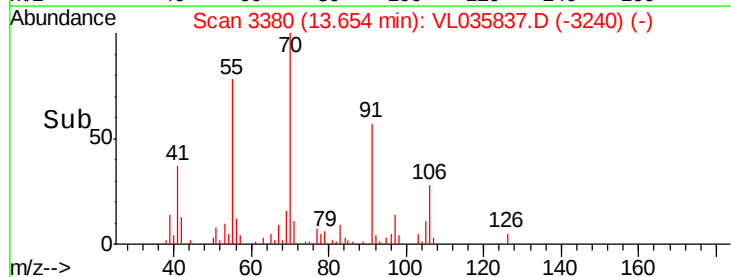
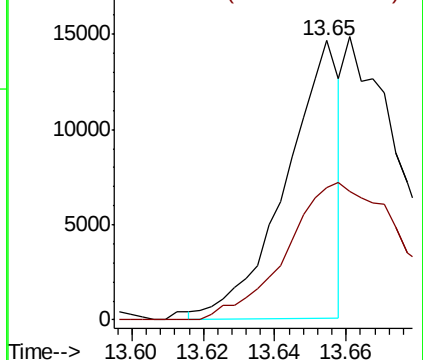


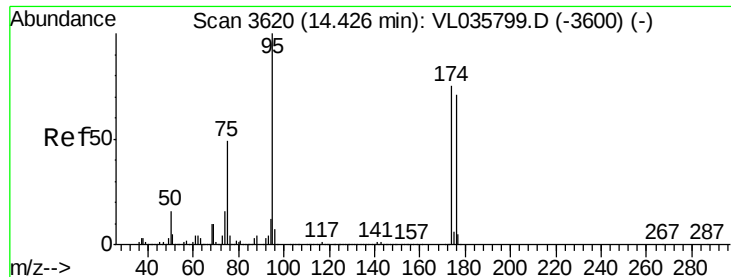
#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.65 min Scan# 3380
Delta R.T. -0.05 min
Lab File: VL035837.D
Acq: 4 Nov 2020 17:31

Tgt Ion: 91 Resp: 15160
Ion Ratio Lower Upper
91 100
106 0.0 24.8 74.4#



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

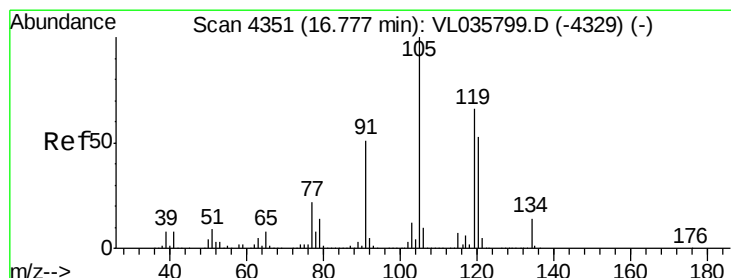
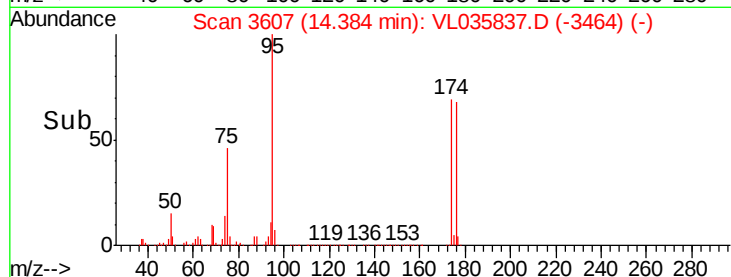
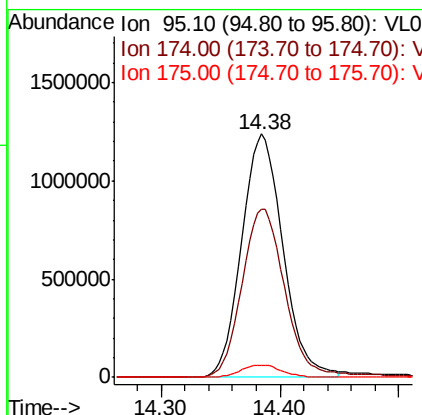
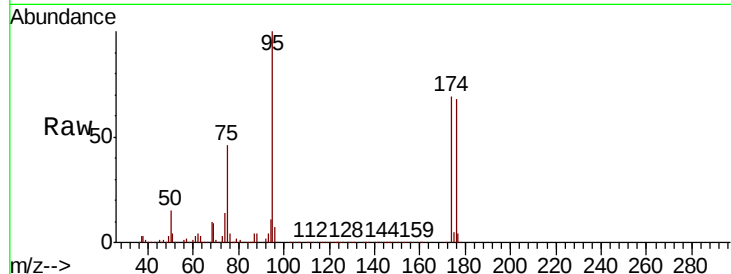




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.876 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.04 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2975660
 Ion Ratio Lower Upper
 95 100
 174 74.0 59.8 89.6
 175 5.2 4.3 6.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.062 ppbv
 RT: 16.73 min Scan# 4337
 Delta R.T. -0.05 min
 Lab File: VL035837.D
 Acq: 4 Nov 2020 17:31

Tgt Ion: 105 Resp: 31570
 Ion Ratio Lower Upper
 105 100
 120 41.8 42.0 63.0#
 91 12.9 41.0 61.6#
 77 8.3 17.3 25.9#

