

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112420\
 Data File : VL036021.D
 Acq On : 25 Nov 2020 8:38
 Operator : SY/AP
 Sample : L4843-03 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 26 01:13:59 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

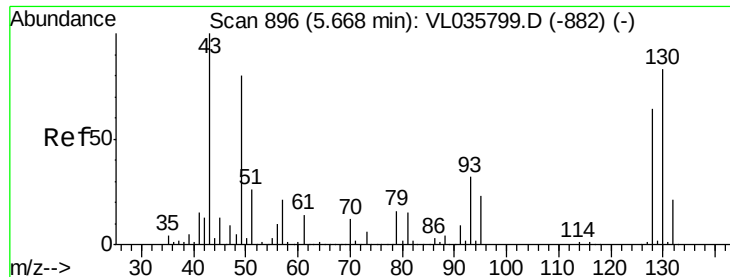
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1173655	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4569754	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4366427	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3273434	10.55	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	15801	0.072	ppbv	98
3) Chlorodifluoromethane	2.97	51	17242	0.123	ppbv	96
4) Chloromethane	3.12	50	17127	0.251	ppbv	95
7) Chloroethane	3.54	64	9264	0.302	ppbv	99
9) Propene	3.18	41	3236554	62.916	ppbv	93
10) Heptane	8.10	43	1853626	13.046	ppbv	100
11) Trichlorofluoromethane	3.93	101	12660	0.046	ppbv	96
13) Ethanol	3.59	45	11578	1.037	ppbv #	38
15) Acetone	3.85	43	5430434	43.279	ppbv #	56
16) 1,3-Butadiene	3.29	39	905868	16.769	ppbv #	22
17) tert-Butyl alcohol	4.29	59	8249	0.050	ppbv #	72
19) Isopropyl Alcohol	3.96	45	29128	0.378	ppbv #	90
20) Methylene Chloride	4.32	84	402584	4.558	ppbv	98
21) Allyl Chloride	4.35	41	114813	1.692	ppbv #	38
23) Vinyl Acetate	5.03	43	756590	4.302	ppbv #	1
25) Ethyl Acetate	5.67	43	2969364	12.013	ppbv #	72
26) Hexane	5.67	57	5220905	38.299	ppbv #	46
27) Carbon Disulfide	4.53	76	368918	1.806	ppbv	99
30) Cyclohexane	7.11	84	447262	3.012	ppbv	82
34) 2-Butanone	5.23	43	152445	1.028	ppbv	91
36) Benzene	6.87	78	223339	0.657	ppbv	95
39) 1,2-Dichloropropane	7.15	63	938486	8.205	ppbv #	30
41) Tetrahydrofuran	6.30	42	61841	0.734	ppbv #	24
42) Bromodichloromethane	7.77	83	39572	0.152	ppbv #	29
43) Methyl Methacrylate	7.96	69	4569	0.035	ppbv #	10
44) 2,2,4-Trimethylpentane	8.10	57	1138019	2.531	ppbv #	1
51) 2-Hexanone	10.09	43	341938	1.877	ppbv #	23
53) Toluene	9.78	91	154950	0.378	ppbv	100
58) Ethyl Benzene	12.68	91	23290	0.044	ppbv	94
60) o-Xylene	13.66	91	23933	0.055	ppbv	96
74) 1,2,4-Trimethylbenzene	16.74	105	41058	0.079	ppbv #	73

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

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MSVOA_L

ClientSampleId :

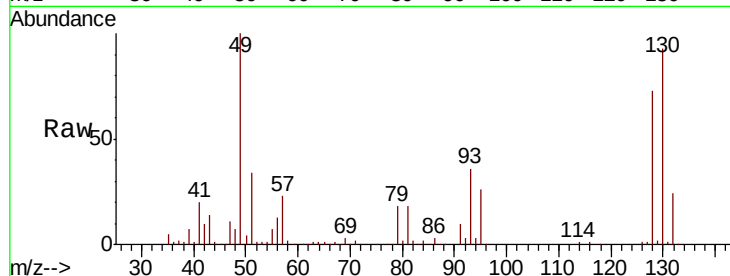
Tot Ion: 49 Resp: 1173655

Ion Ratio Lower Upper

49 100

128 79.4 41.5 124.6

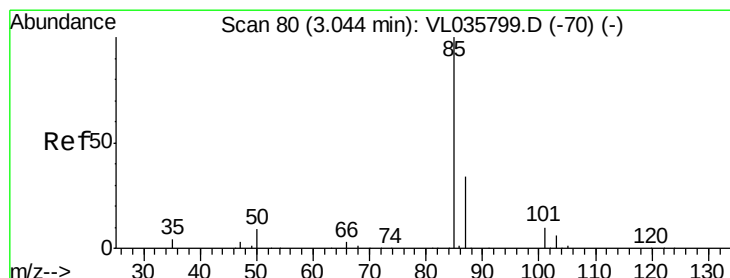
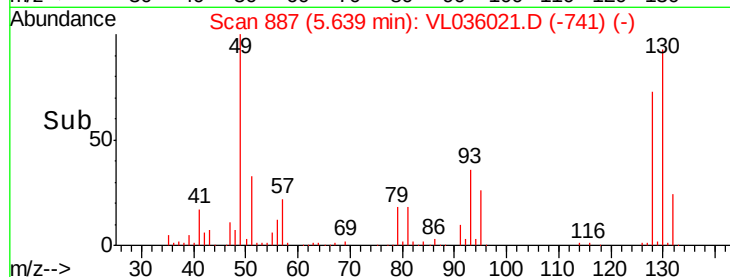
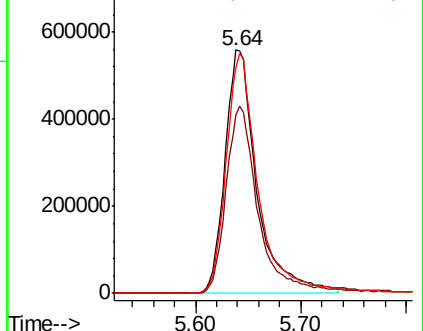
130 100.8 53.7 161.1



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: 0.072 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL036021.D

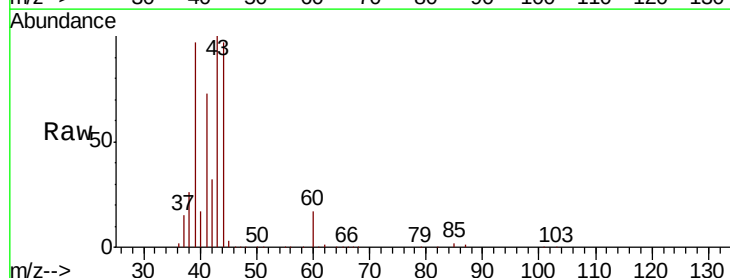
Acq: 25 Nov 2020 8:38

Tgt Ion: 85 Resp: 15801

Ion Ratio Lower Upper

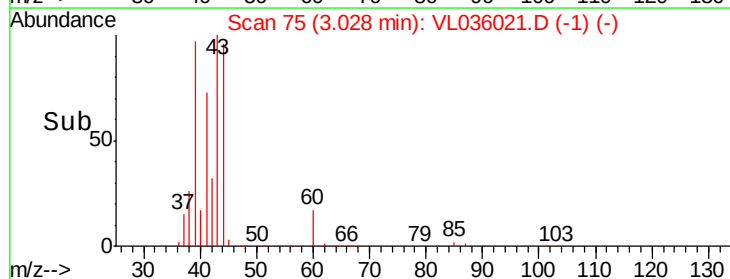
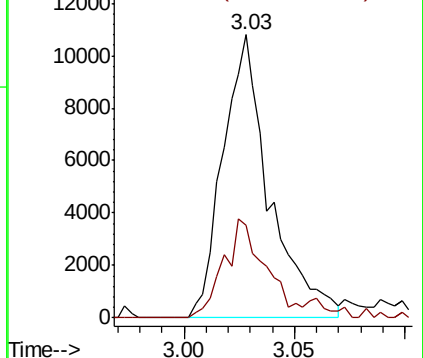
85 100

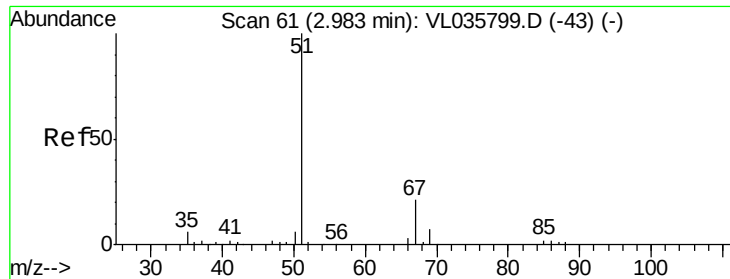
87 33.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.123 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

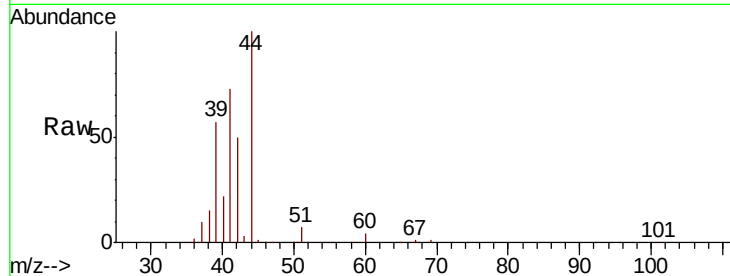
ClientSampleId :

Tot Ion: 51 Resp: 17242

Ion Ratio Lower Upper

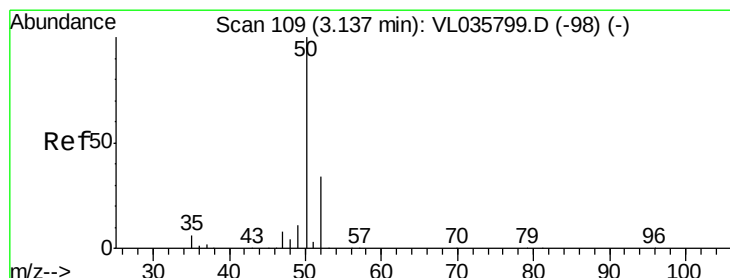
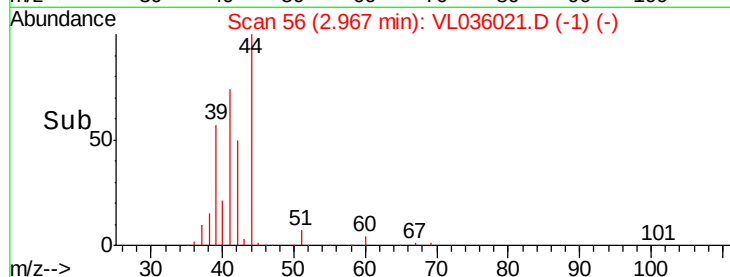
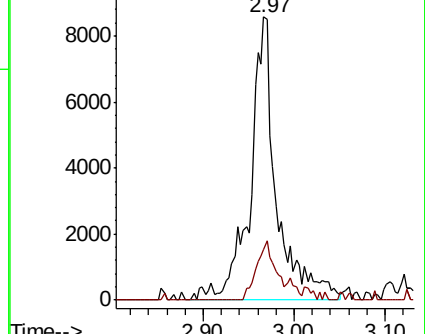
51 100

67 19.1 17.0 25.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.251 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036021.D

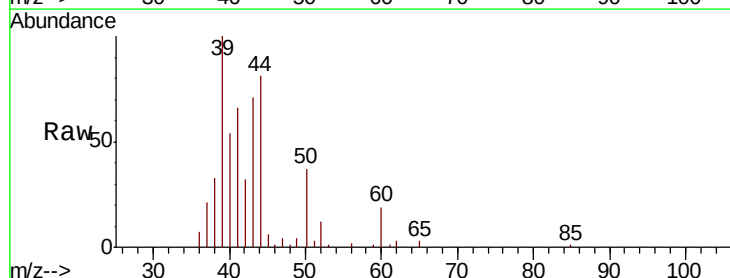
Acq: 25 Nov 2020 8:38

Tgt Ion: 50 Resp: 17127

Ion Ratio Lower Upper

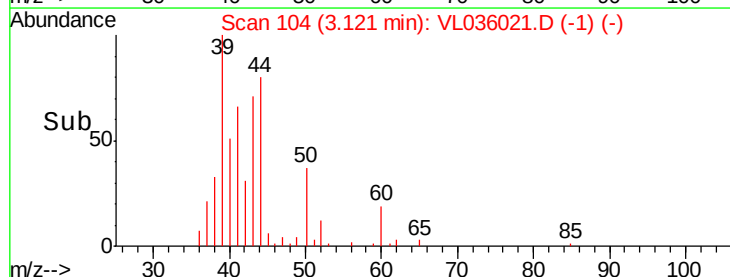
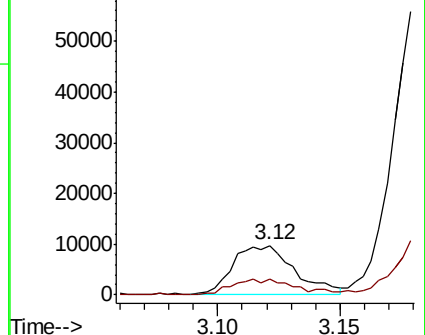
50 100

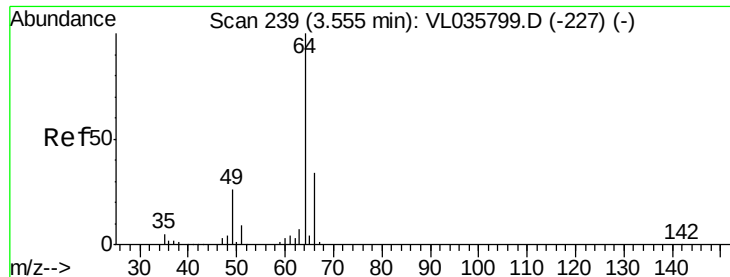
52 31.0 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.302 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

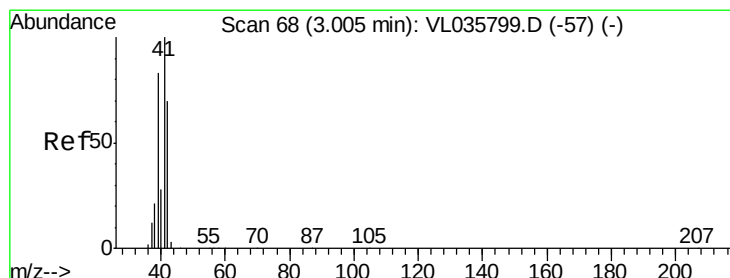
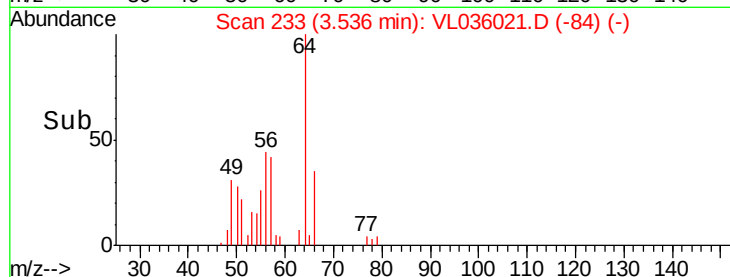
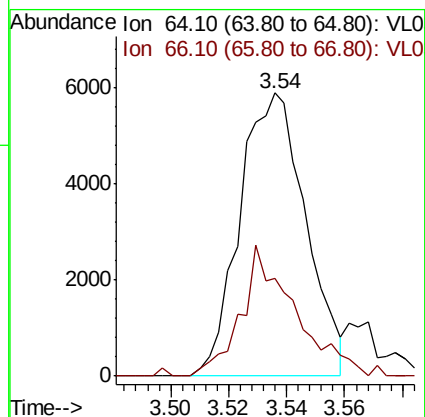
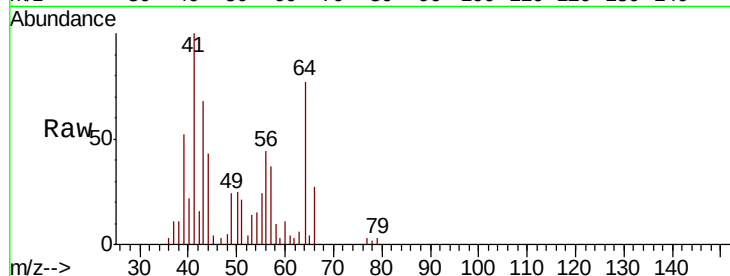
ClientSampleId :

Tot Ion: 64 Resp: 9264

Ion Ratio Lower Upper

64 100

66 34.5 27.0 40.6



#9

Propene

Concen: 62.916 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.18 min

Lab File: VL036021.D

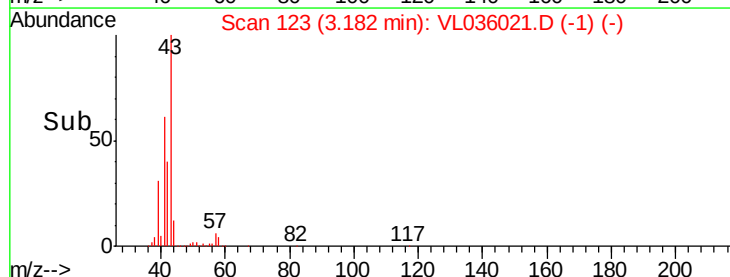
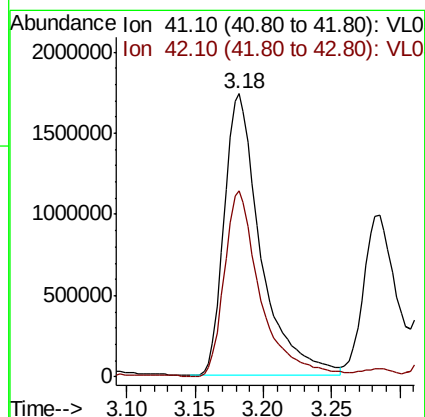
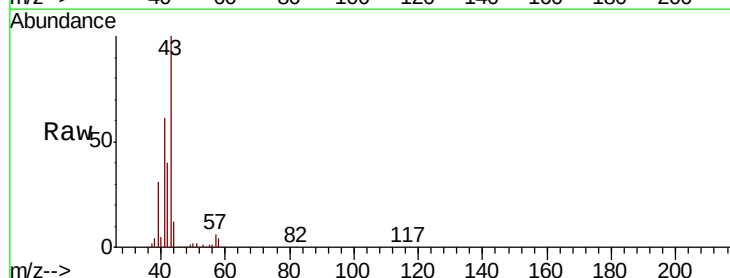
Acq: 25 Nov 2020 8:38

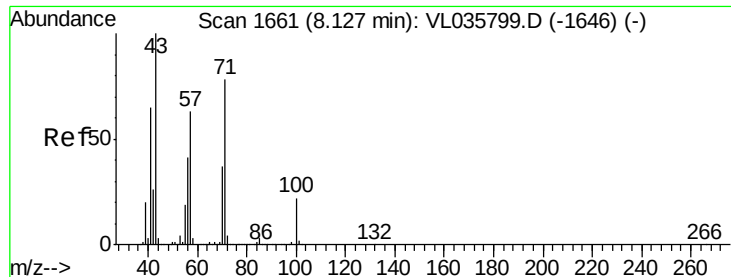
Tgt Ion: 41 Resp: 3236554

Ion Ratio Lower Upper

41 100

42 64.9 56.2 84.4

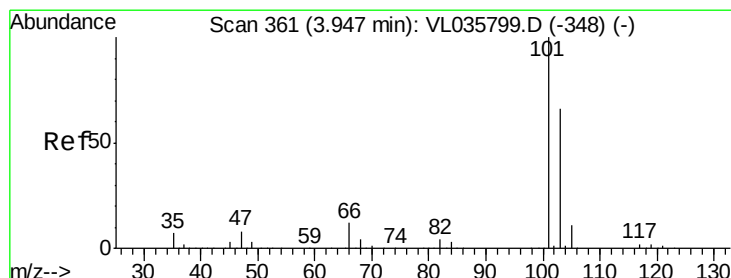
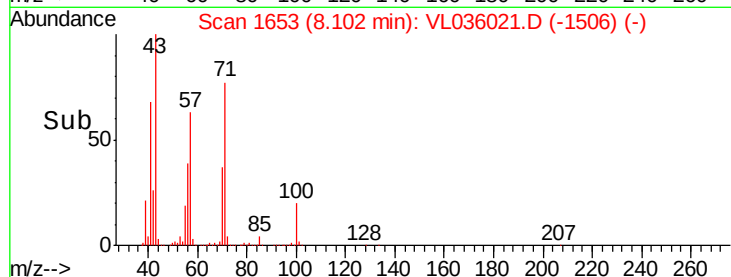
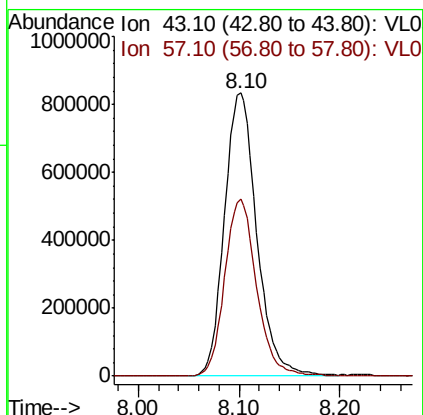
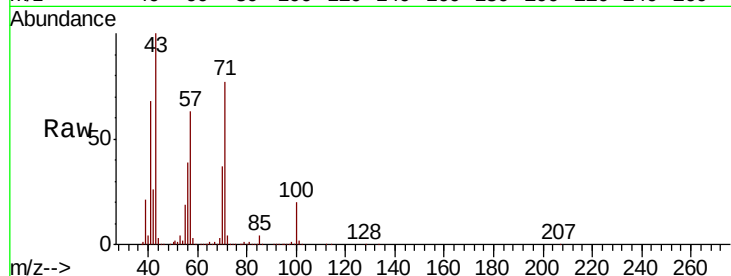




#10
 Heptane
 Concen: 13.046 ppbv
 RT: 8.10 min Scan# 1653
 Delta R.T. -0.03 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

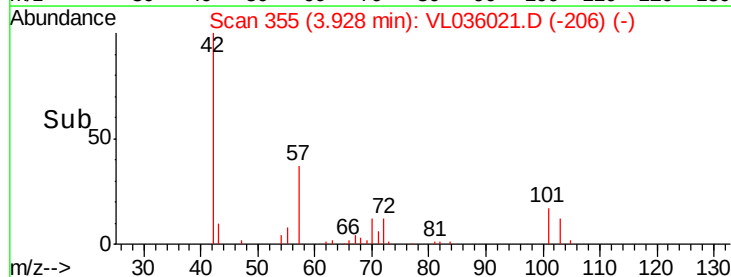
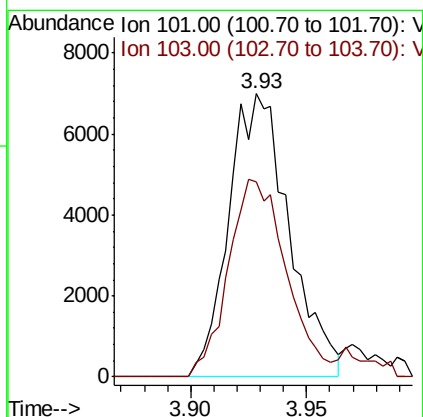
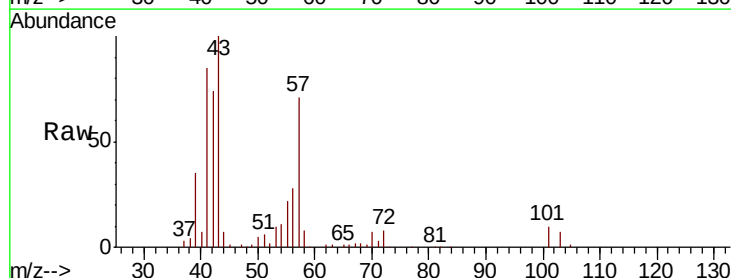
Instrument :
 MSVOA_L
 ClientSampleId :

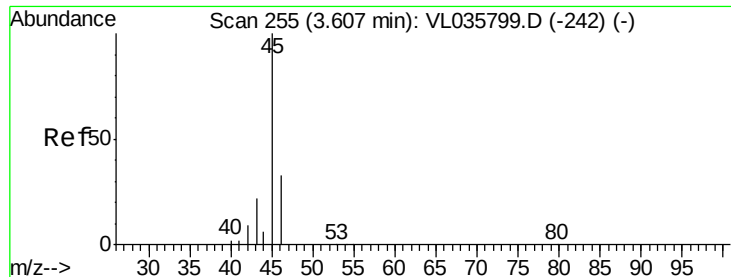
Tot Ion: 43 Resp: 1853626
 Ion Ratio Lower Upper
 43 100
 57 62.3 50.0 75.0



#11
 Trichlorofluoromethane
 Concen: 0.046 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.02 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

Tgt Ion: 101 Resp: 12660
 Ion Ratio Lower Upper
 101 100
 103 69.0 53.0 79.4

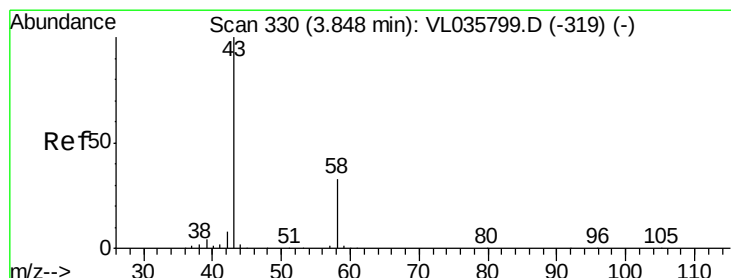
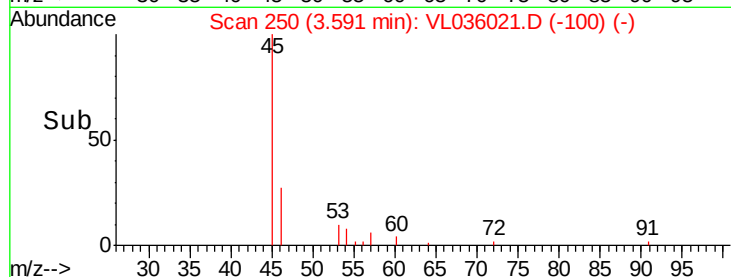
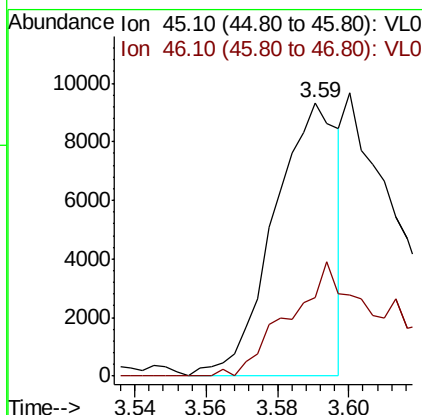
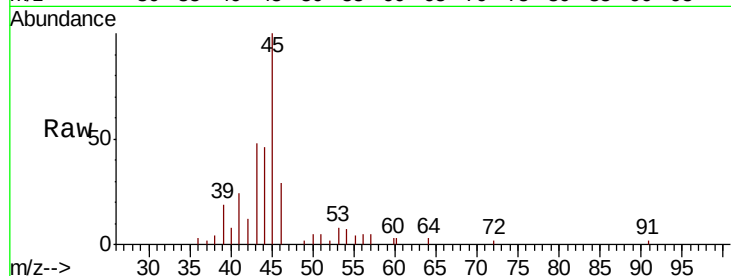




#13
Ethanol
Concen: 1.037 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.02 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

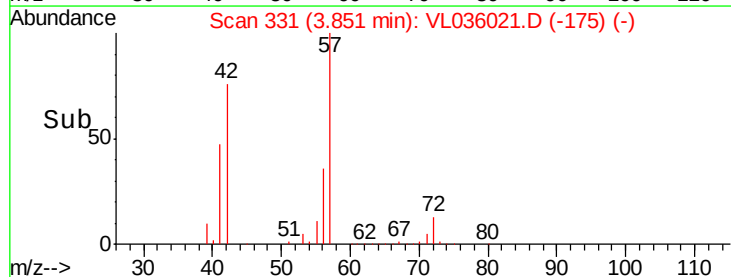
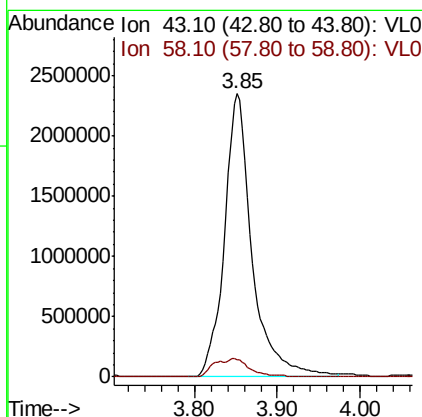
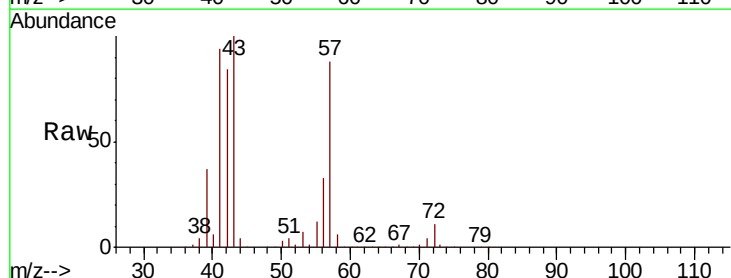
Instrument :
MSVOA_L
ClientSampleId :

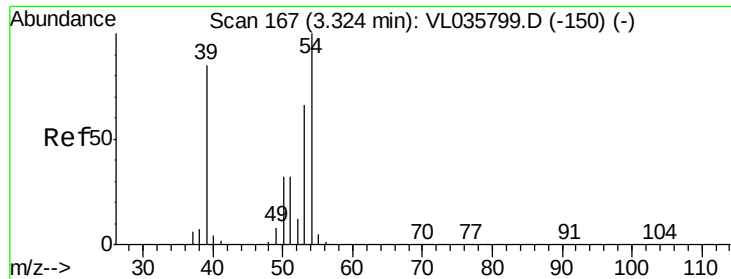
Tot Ion: 45 Resp: 11578
Ion Ratio Lower Upper
45 100
46 78.5 16.1 64.5#



#15
Acetone
Concen: 43.279 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion: 43 Resp: 5430434
Ion Ratio Lower Upper
43 100
58 8.8 27.5 41.3#

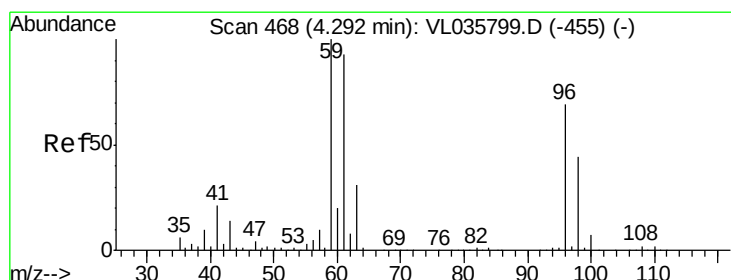
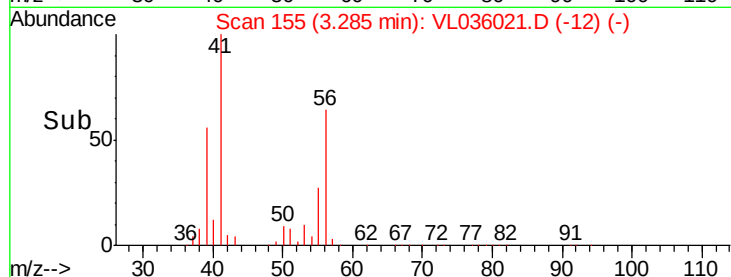
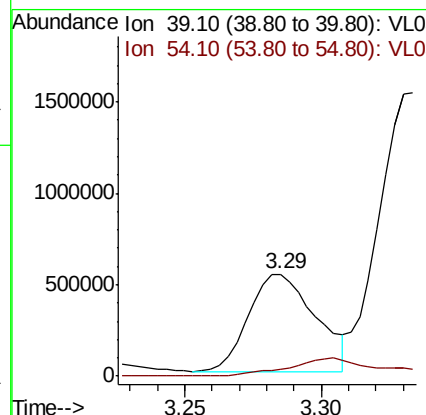
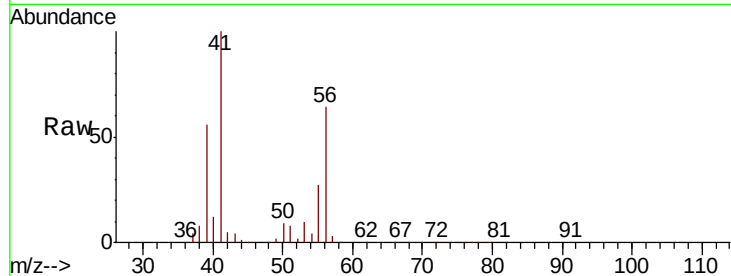




#16
 1,3-Butadiene
 Concen: 16.769 ppbv
 RT: 3.29 min Scan# 155
 Delta R.T. -0.04 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

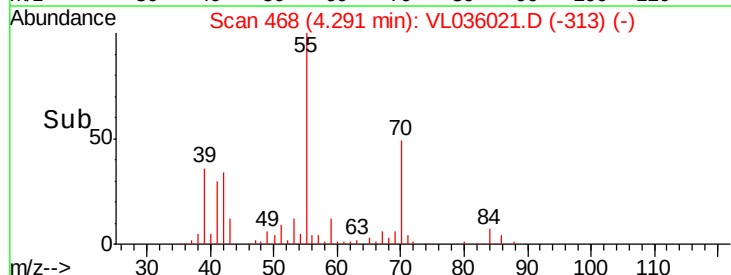
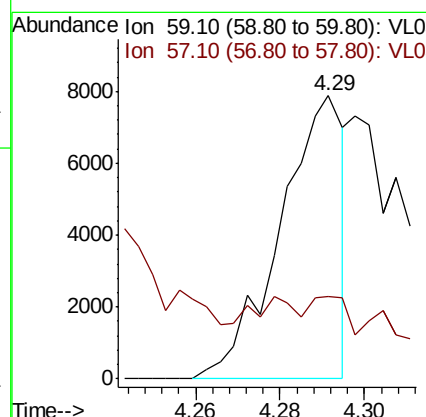
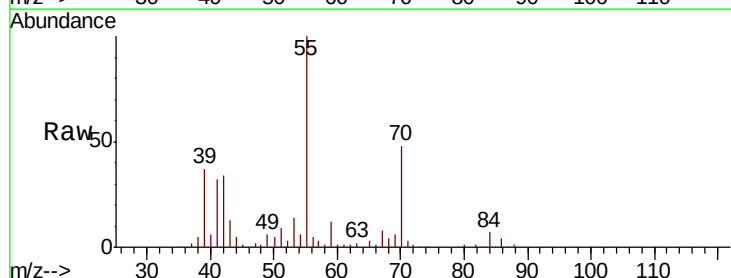
Instrument :
 MSVOA_L
 ClientSampleId :

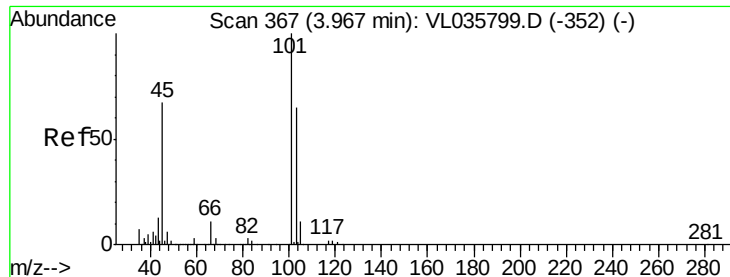
Tot Ion: 39 Resp: 905868
 Ion Ratio Lower Upper
 39 100
 54 27.1 87.1 130.7#



#17
 tert-Butyl alcohol
 Concen: 0.050 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. -0.00 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

Tgt Ion: 59 Resp: 8249
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#





#19

Isopropyl Alcohol

Concen: 0.378 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

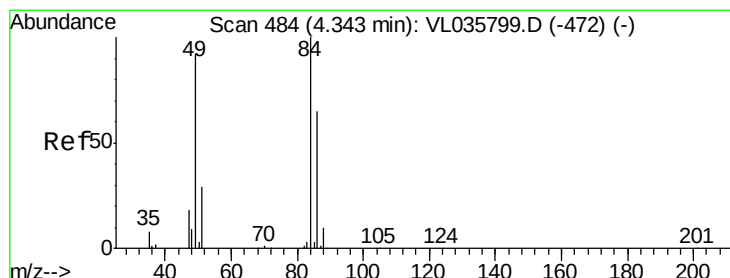
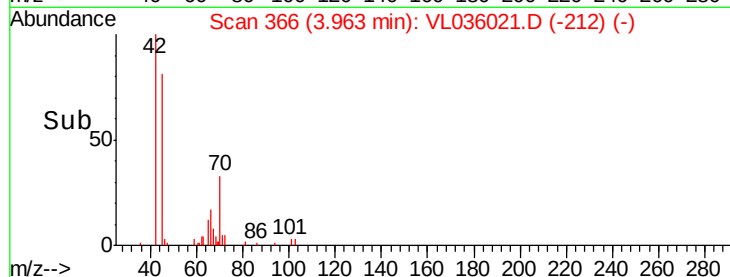
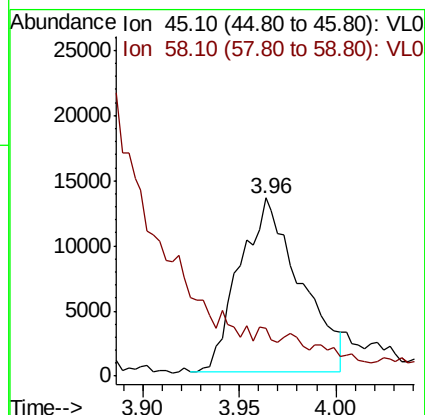
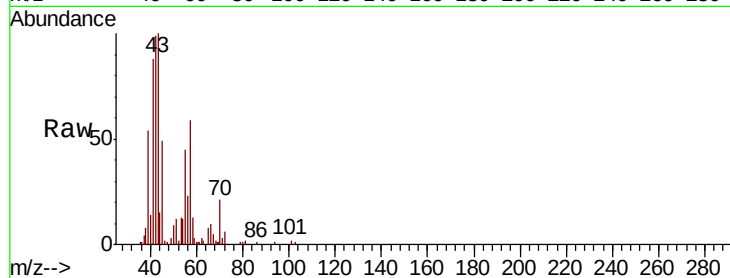
ClientSampleId :

Tot Ion: 45 Resp: 29128

Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#



#20

Methylene Chloride

Concen: 4.558 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Tgt Ion: 84 Resp: 402584

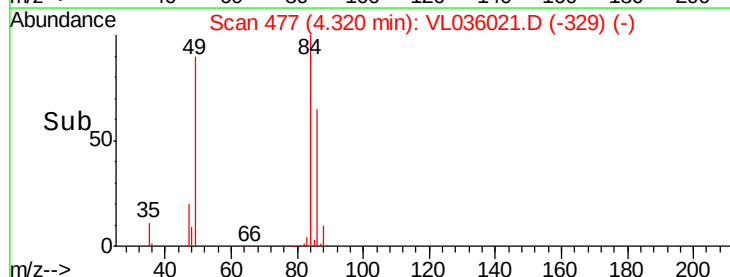
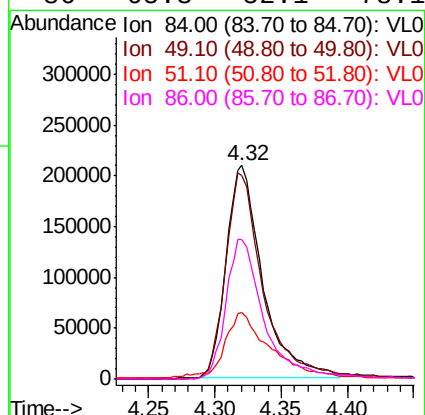
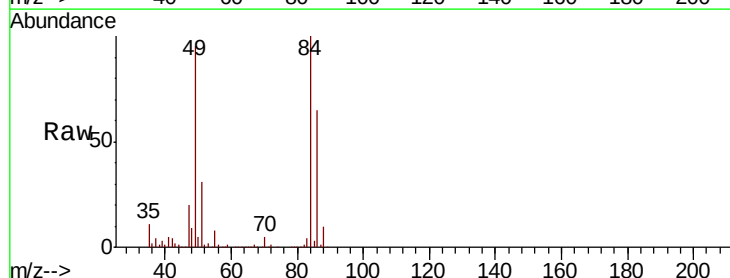
Ion Ratio Lower Upper

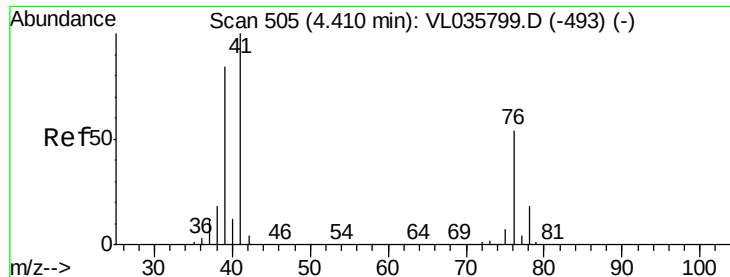
84 100

49 95.1 73.8 110.8

51 30.0 23.0 34.4

86 65.3 52.1 78.1





#21

Allvl Chloride

Concen: 1.692 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.06 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

ClientSampled :

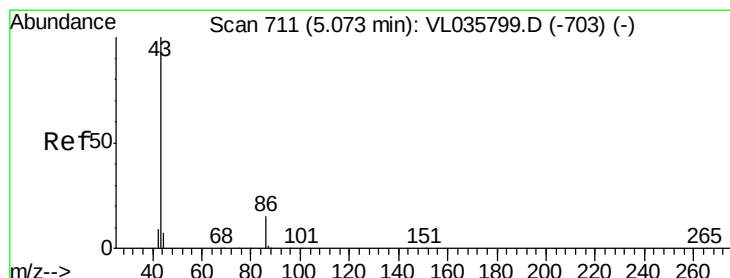
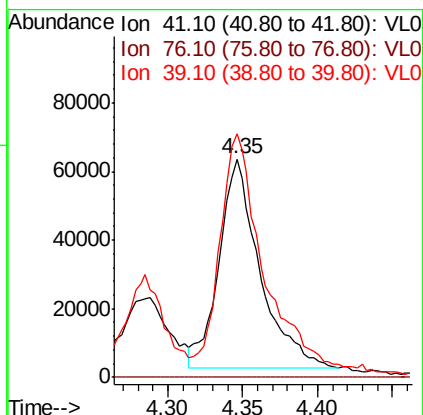
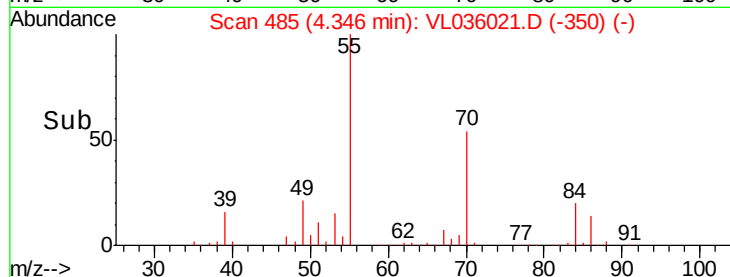
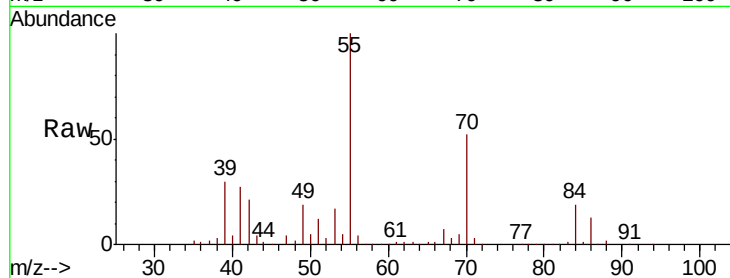
Tot Ion: 41 Resp: 114813

Ion Ratio Lower Upper

41 100

76 0.0 42.6 63.8#

39 131.7 67.0 100.4#



#23

Vinyl Acetate

Concen: 4.302 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.04 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Tgt Ion: 43 Resp: 756590

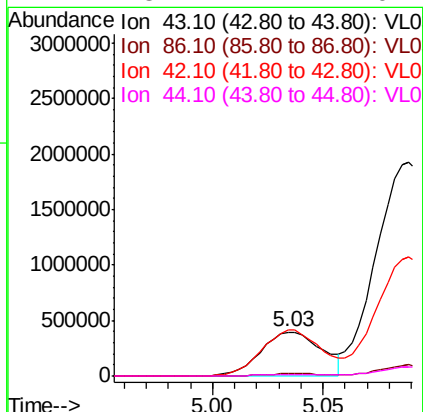
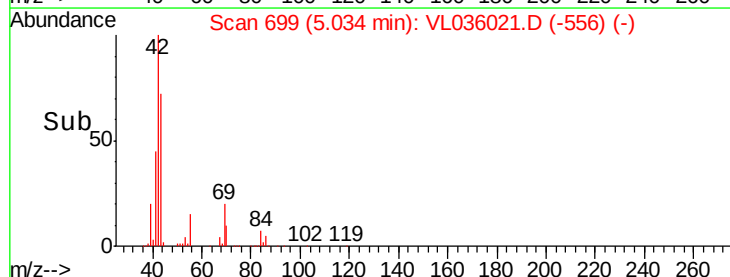
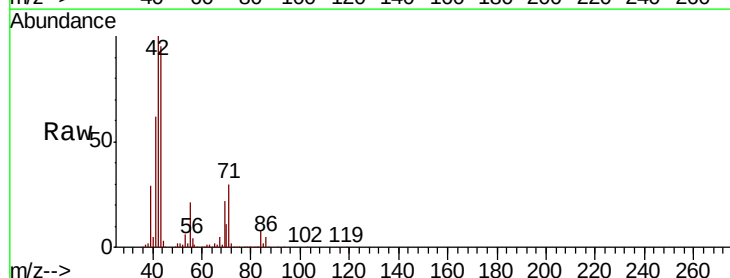
Ion Ratio Lower Upper

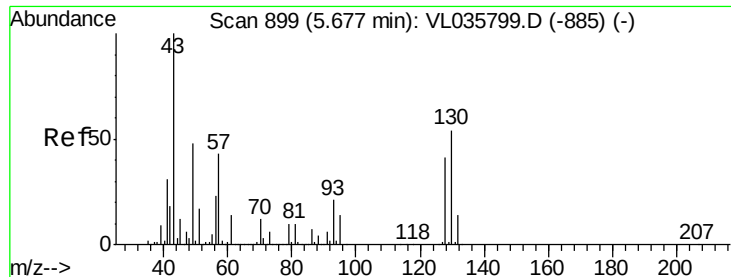
43 100

86 5.2 9.8 14.6#

42 105.4 8.1 12.1#

44 3.2 4.2 6.4#





#25

Ethyl Acetate

Concen: 12.013 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

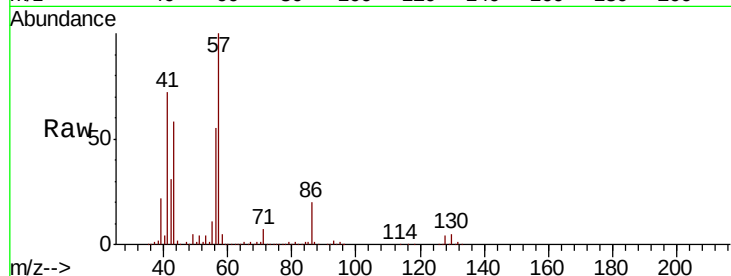
Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2969364

Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.5	12.7#
61	0.2	10.7	16.1#
70	2.2	8.6	12.8#



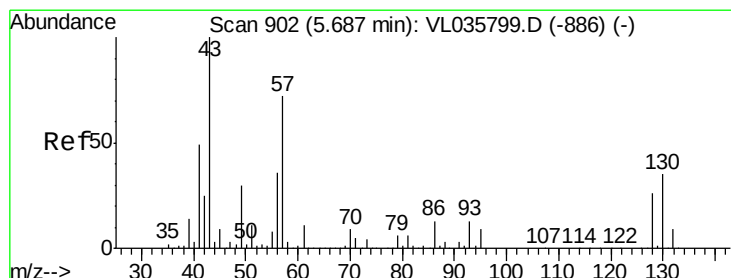
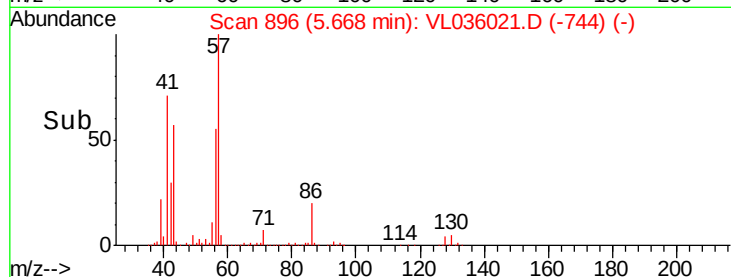
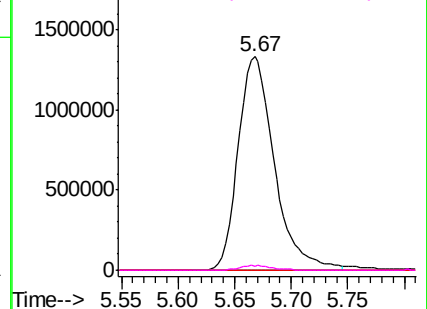
Abundance

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: 38.299 ppbv

RT: 5.67 min Scan# 896

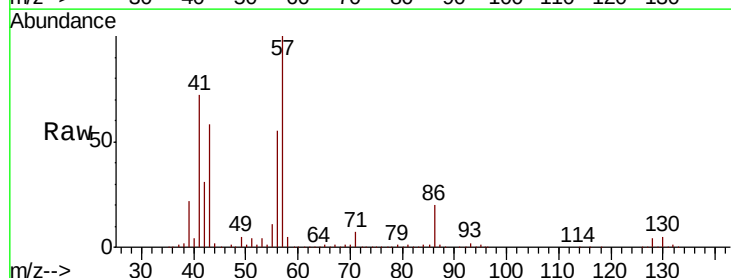
Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Tgt Ion: 57 Resp: 5220905

Ion	Ratio	Lower	Upper
57	100		
41	73.1	58.9	88.3
43	58.0	150.2	225.2#
56	56.1	42.4	63.6



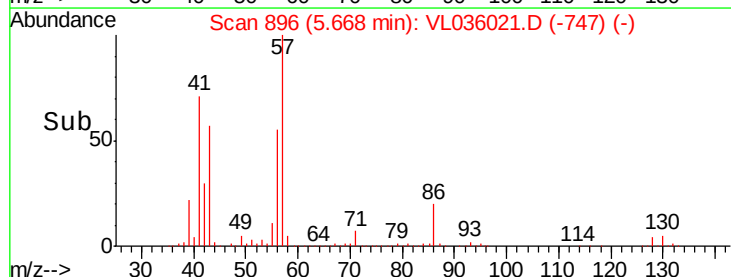
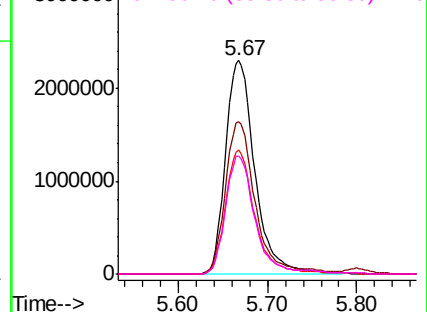
Abundance

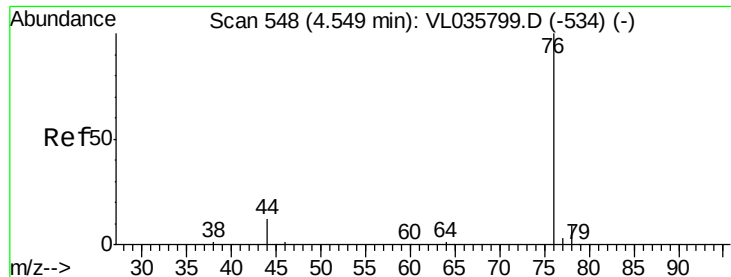
Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 1.806 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

ClientSampleId :

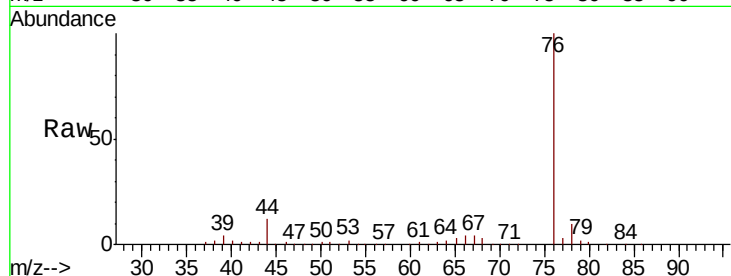
Tot Ion: 76 Resp: 368918

Ion Ratio Lower Upper

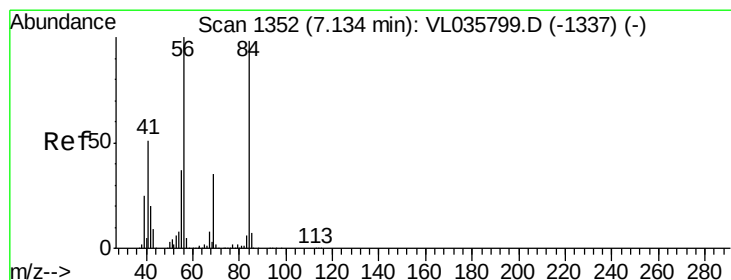
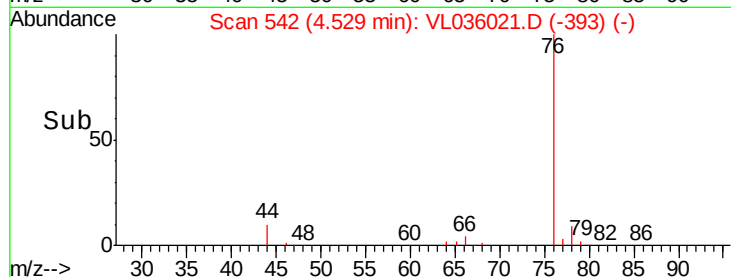
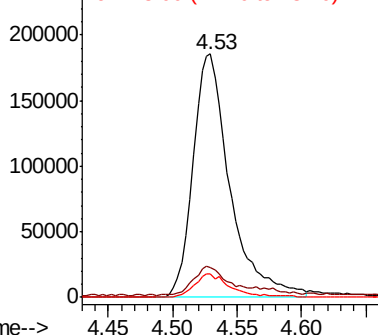
76 100

44 13.3 9.9 14.9

78 10.0 8.1 12.1



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



#30

Cyclohexane

Concen: 3.012 ppbv

RT: 7.11 min Scan# 1344

Delta R.T. -0.03 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

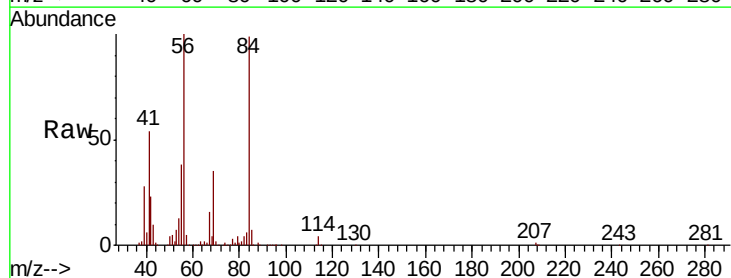
Tgt Ion: 84 Resp: 447262

Ion Ratio Lower Upper

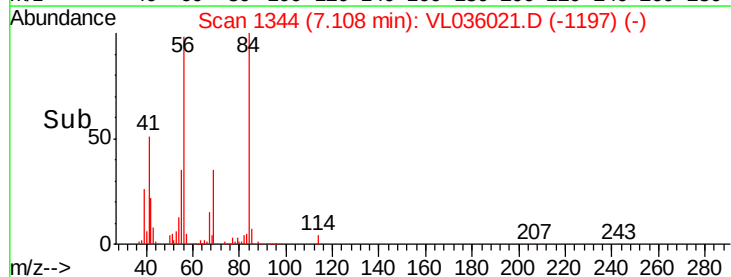
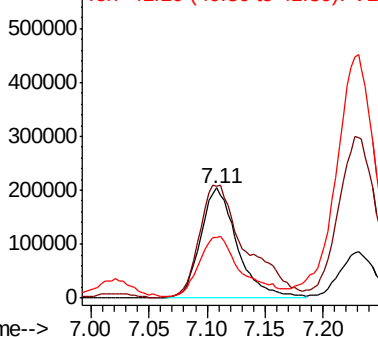
84 100

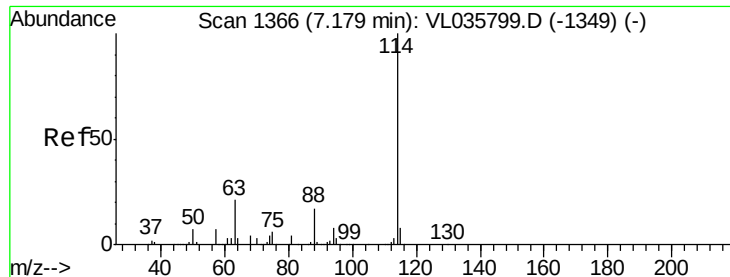
56 128.4 86.4 129.6

41 62.8 42.1 63.1



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

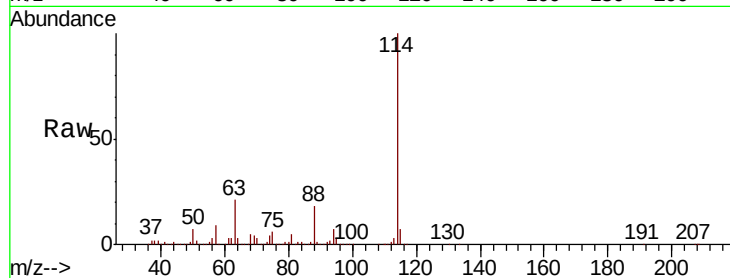




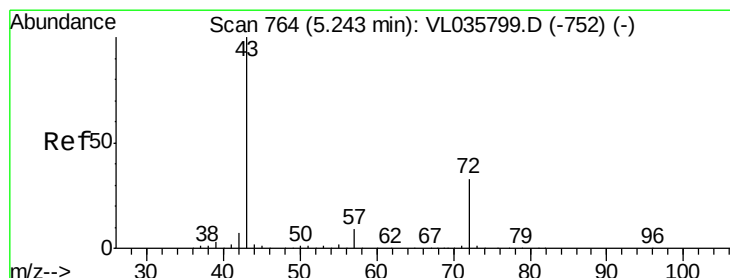
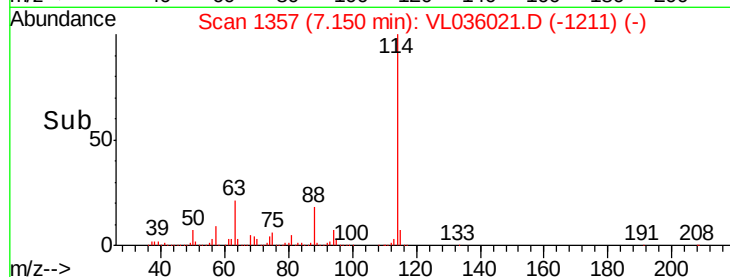
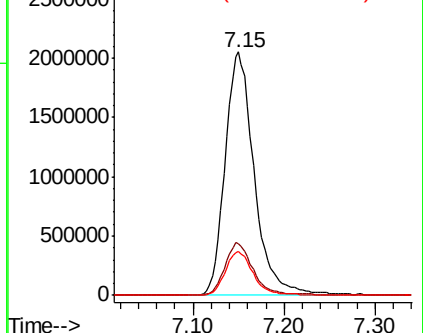
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4569754
 Ion Ratio Lower Upper
 114 100
 63 21.2 16.1 24.1
 88 17.5 13.7 20.5

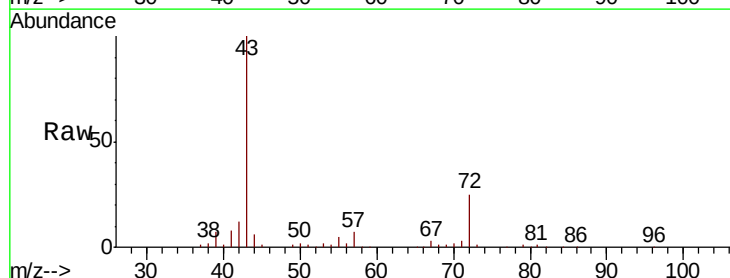


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

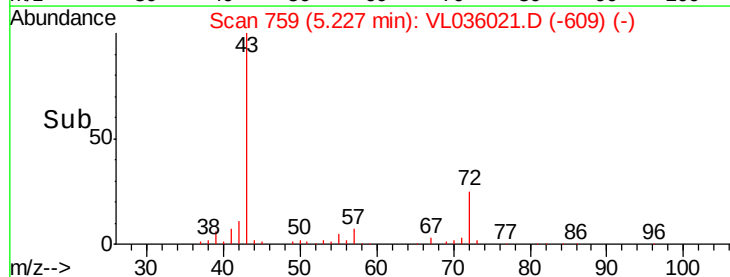
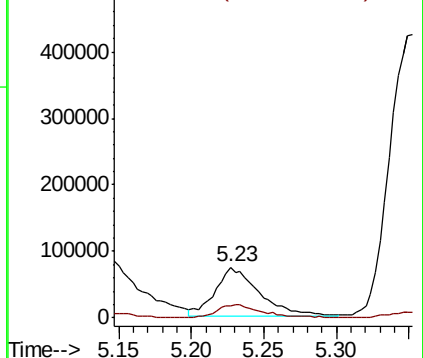


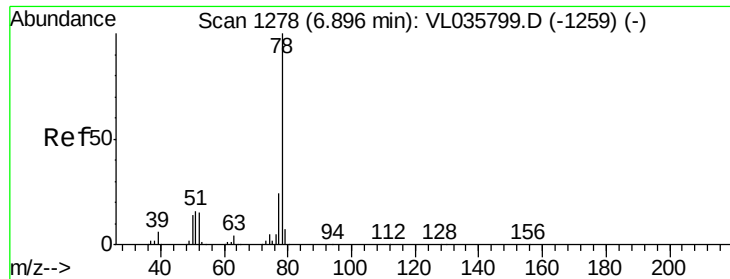
#34
 2-Butanone
 Concen: 1.028 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

Tgt Ion: 43 Resp: 152445
 Ion Ratio Lower Upper
 43 100
 72 27.9 26.5 39.7



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





#36

Benzene

Concen: 0.657 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.03 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

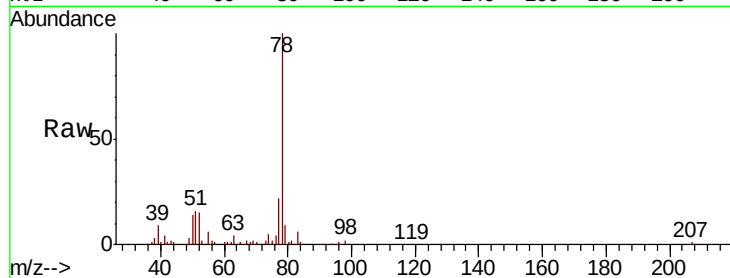
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 223339

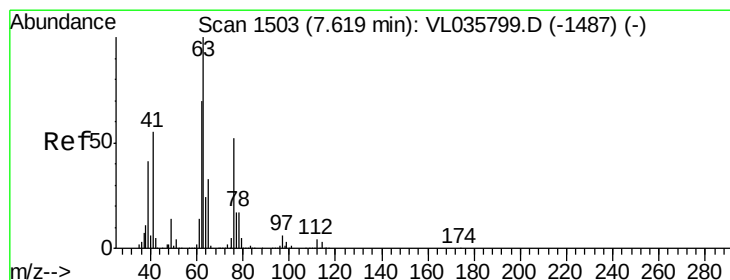
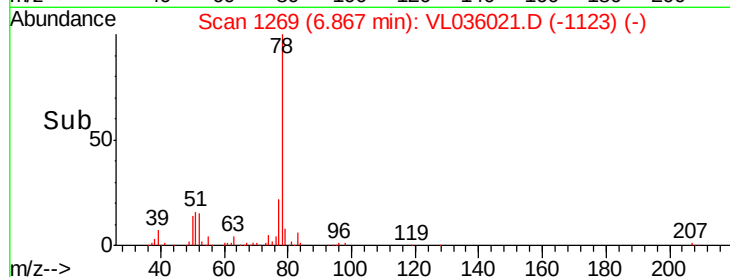
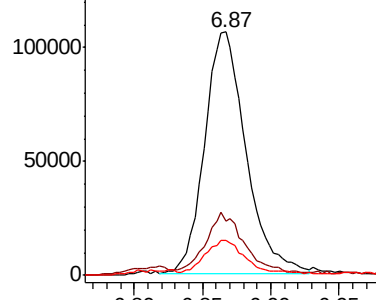
Ion	Ratio	Lower	Upper
78	100		
77	21.1	19.3	28.9
50	13.1	11.4	17.2



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: 8.205 ppbv

RT: 7.15 min Scan# 1356

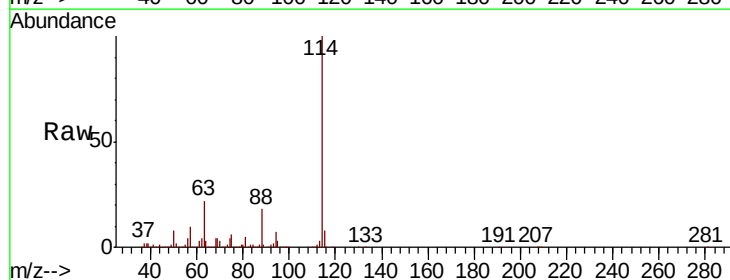
Delta R.T. -0.47 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Tgt Ion: 63 Resp: 938486

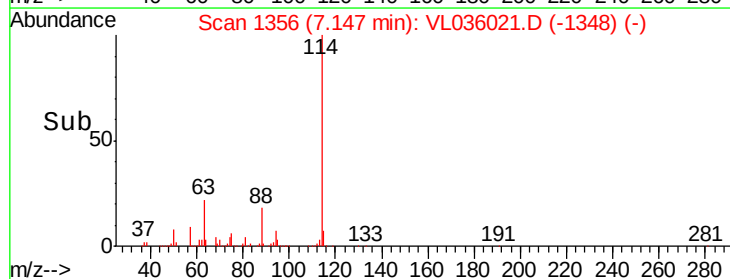
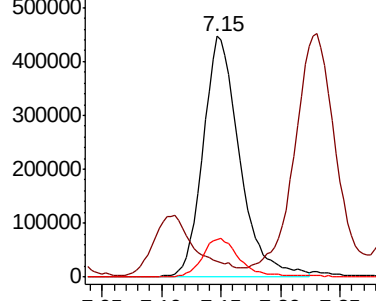
Ion	Ratio	Lower	Upper
63	100		
41	0.0	43.8	65.6#
62	15.7	56.2	84.2#

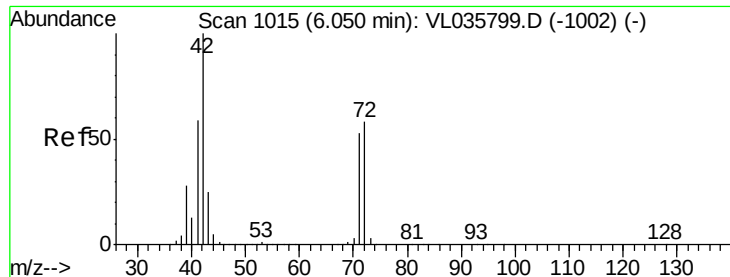


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.734 ppbv

RT: 6.30 min Scan# 1092

Delta R.T. 0.25 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :
MSVOA_L
ClientSampled :

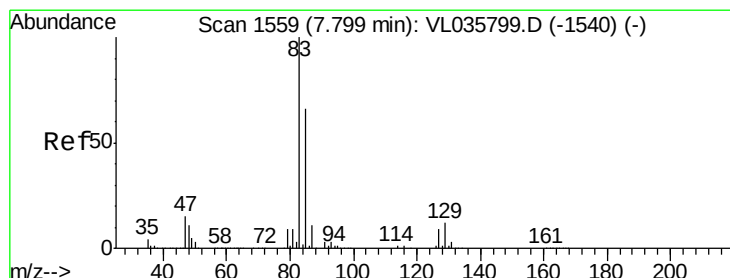
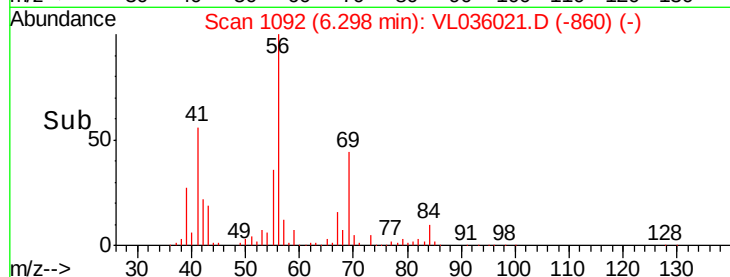
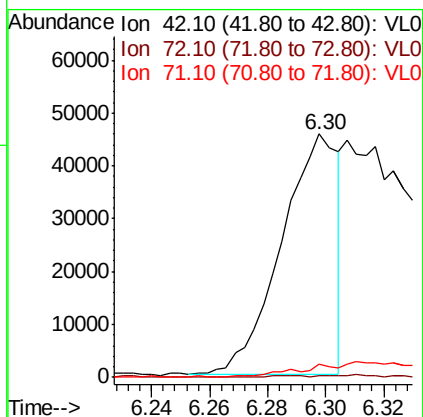
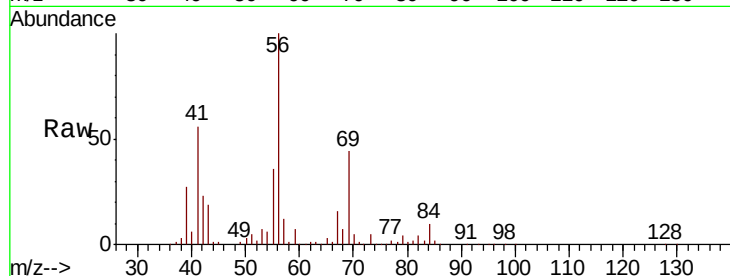
Tot Ion: 42 Resp: 61841

Ion Ratio Lower Upper

42 100

72 0.0 45.4 68.0#

71 0.0 43.4 65.2#



#42

Bromodichloromethane

Concen: 0.152 ppbv

RT: 7.77 min Scan# 1549

Delta R.T. -0.03 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

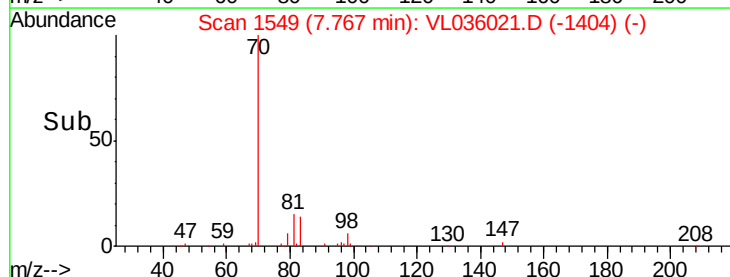
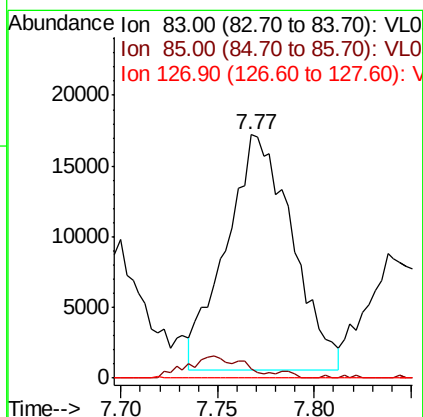
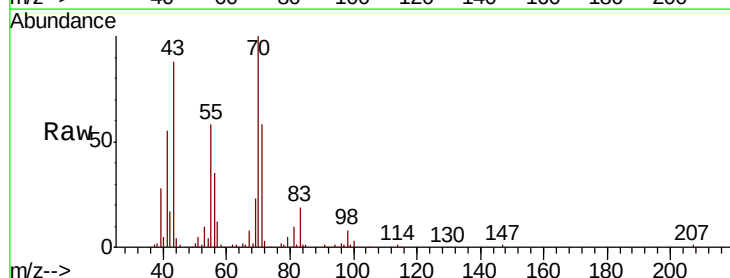
Tgt Ion: 83 Resp: 39572

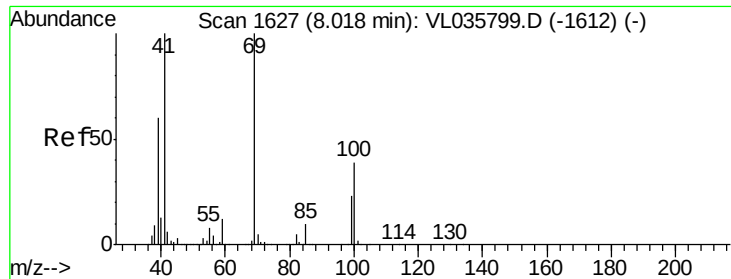
Ion Ratio Lower Upper

83 100

85 4.7 53.1 79.7#

127 0.0 7.3 10.9#





#43

Methyl Methacrylate

Concen: 0.035 ppbv

RT: 7.96 min Scan# 1609

Delta R.T. -0.06 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

ClientSampleId :

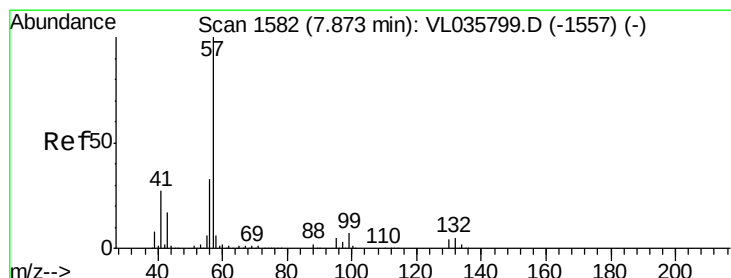
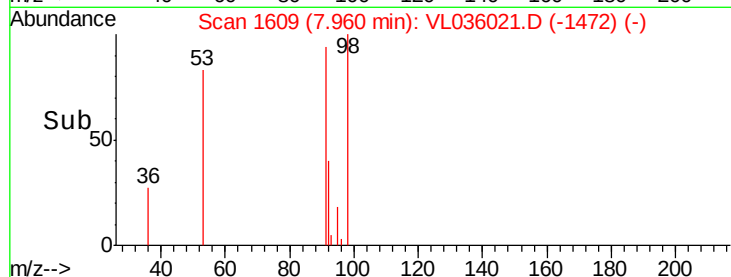
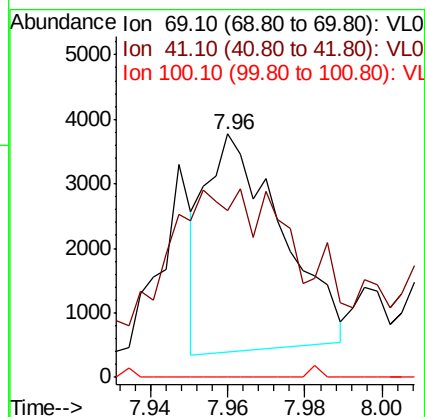
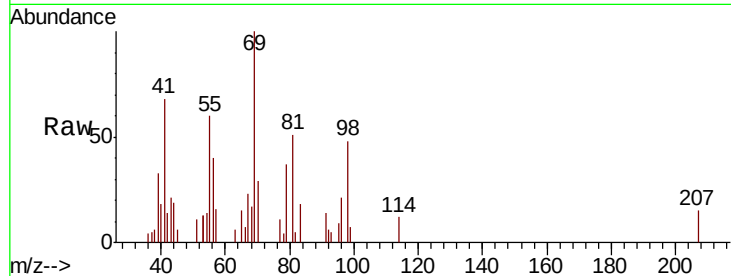
Tot Ion: 69 Resp: 4569

Ion Ratio Lower Upper

69 100

41 0.0 81.1 121.7#

100 0.0 31.0 46.4#



#44

2,2,4-Trimethylpentane

Concen: 2.531 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. 0.23 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

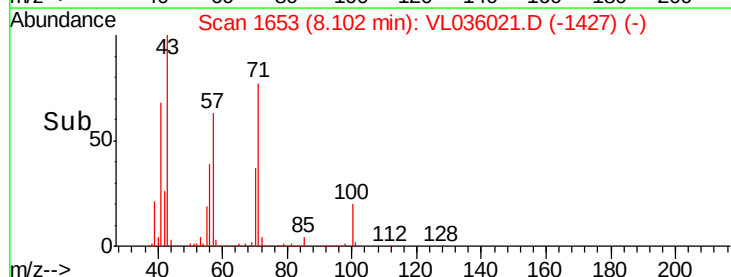
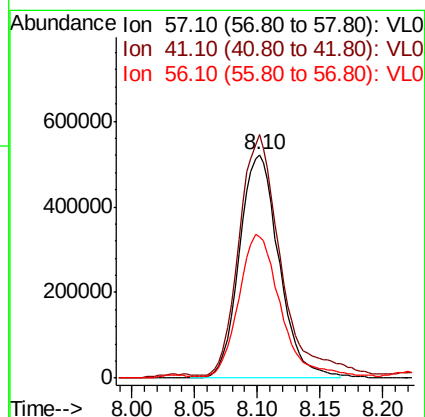
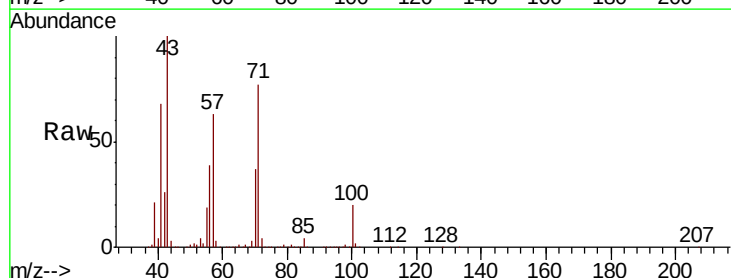
Tgt Ion: 57 Resp: 1138019

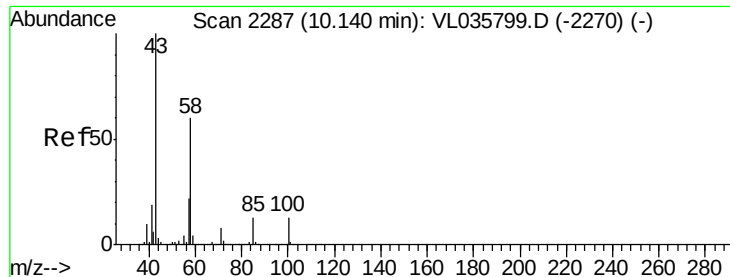
Ion Ratio Lower Upper

57 100

41 118.7 21.0 31.4#

56 66.8 25.4 38.0#

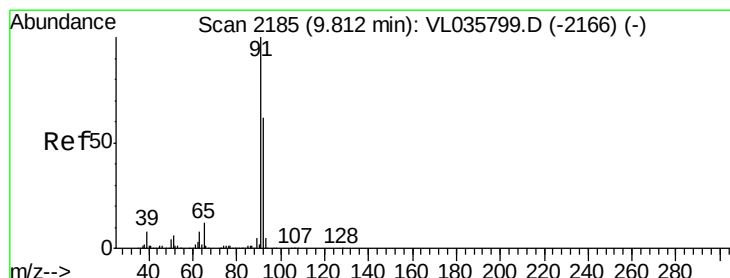
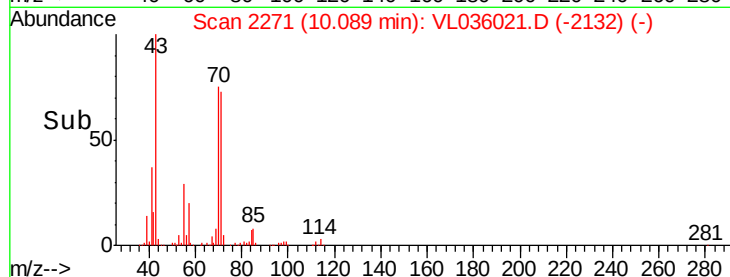
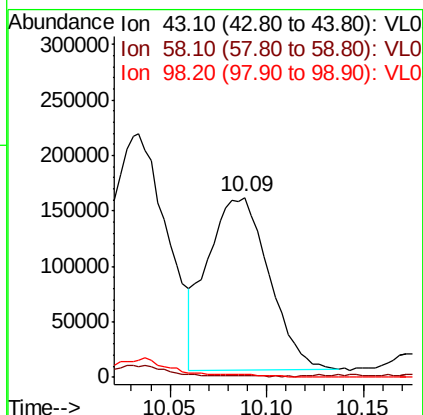
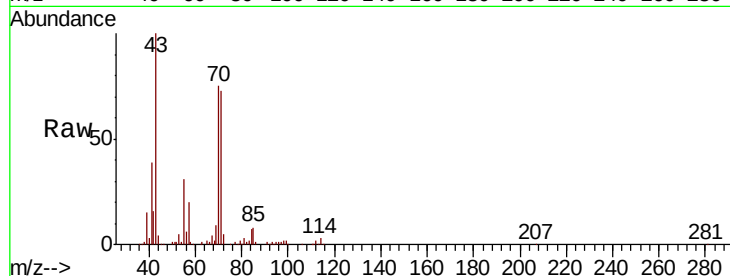




#51
2-Hexanone
Concen: 1.877 ppbv
RT: 10.09 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

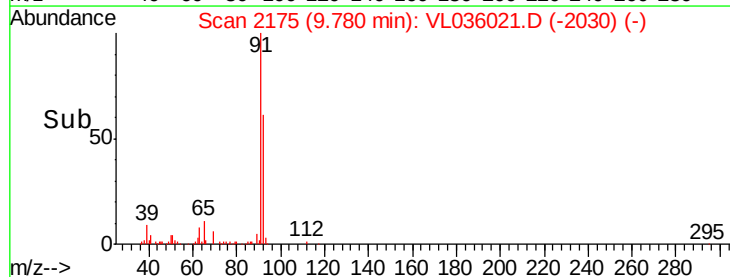
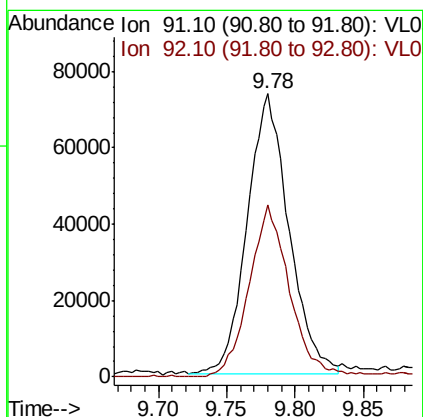
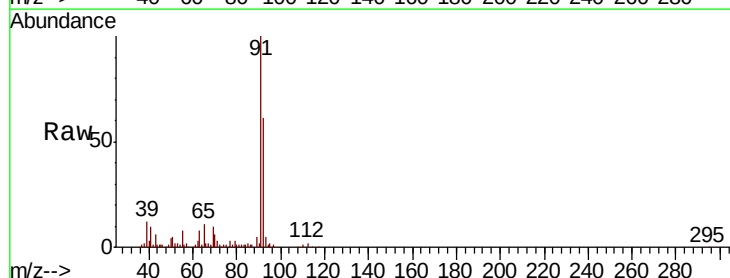
Instrument :
MSVOA_L
ClientSampleId :

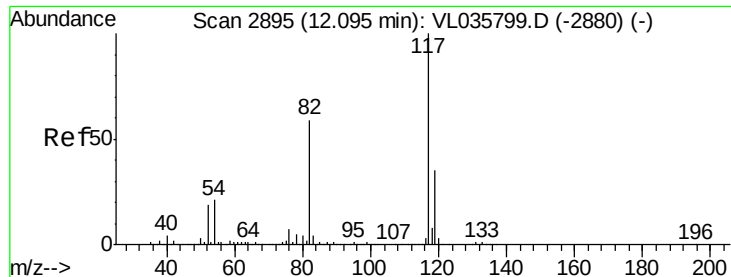
Tot Ion: 43 Resp: 341938
Ion Ratio Lower Upper
43 100
58 1.3 48.3 72.5#
98 0.0 0.6 0.8#



#53
Toluene
Concen: 0.378 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. -0.03 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion: 91 Resp: 154950
Ion Ratio Lower Upper
91 100
92 62.5 49.8 74.6

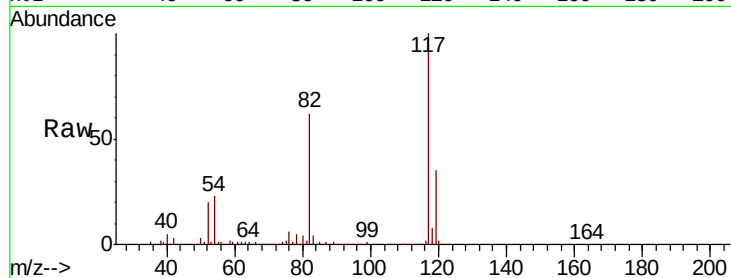




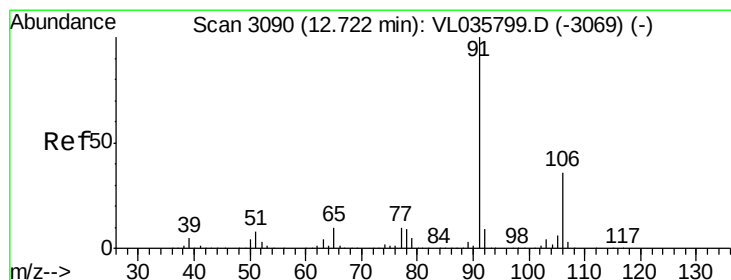
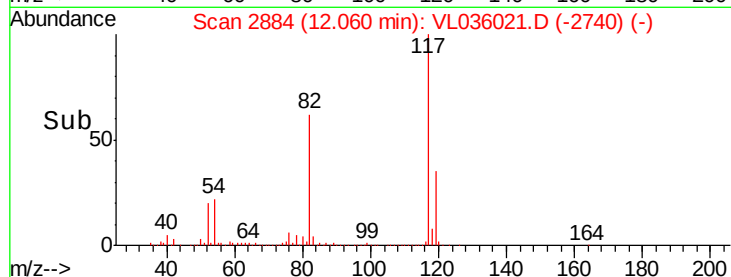
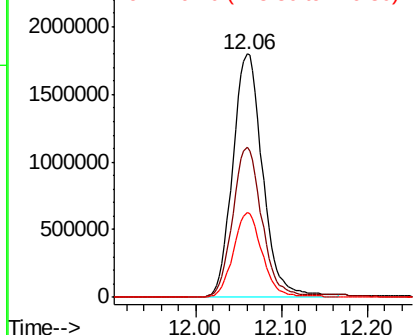
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.04 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 4366427
Ion Ratio Lower Upper
117 100
82 60.2 50.6 76.0
119 34.3 52.6 78.8#

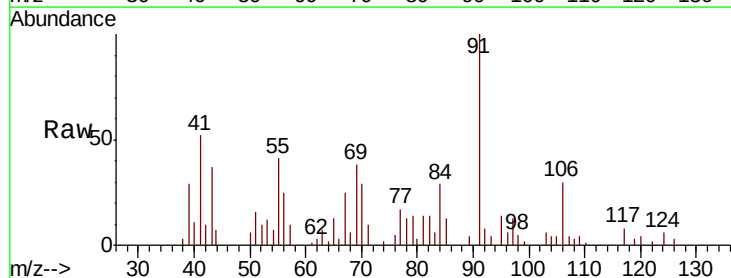


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

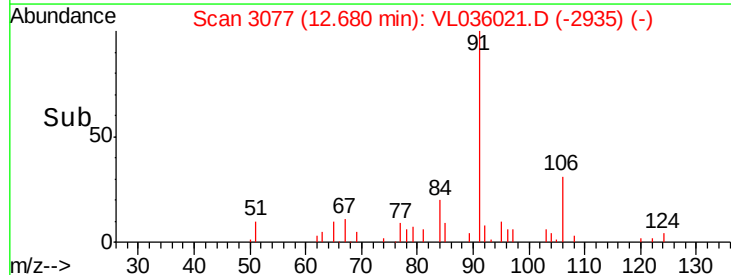
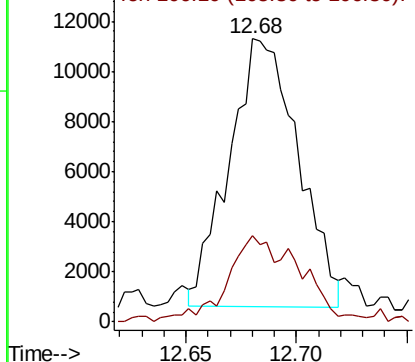


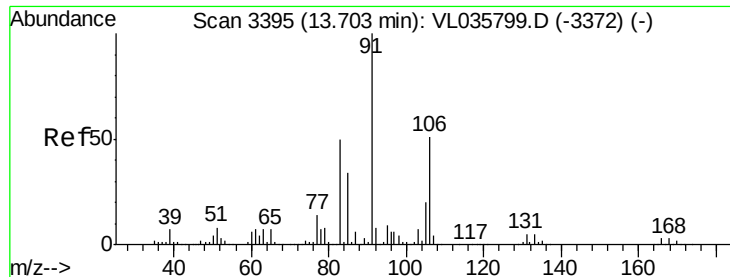
#58
Ethyl Benzene
Concen: 0.044 ppbv
RT: 12.68 min Scan# 3077
Delta R.T. -0.04 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion: 91 Resp: 23290
Ion Ratio Lower Upper
91 100
106 32.2 28.6 43.0



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

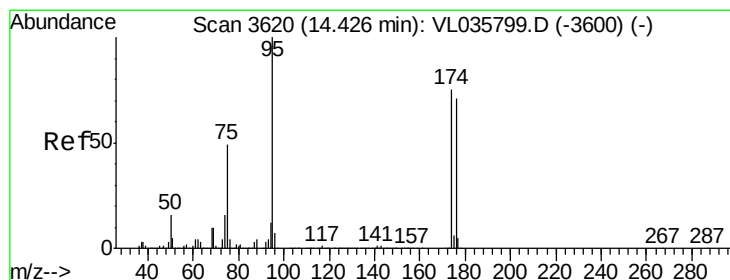
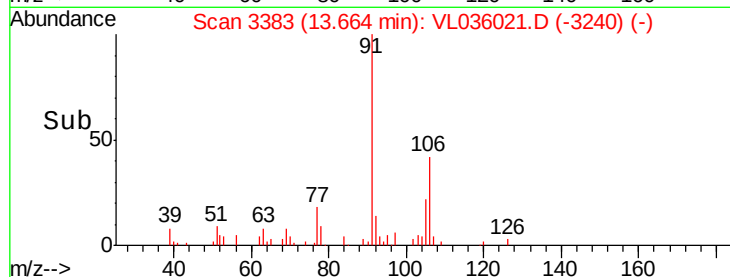
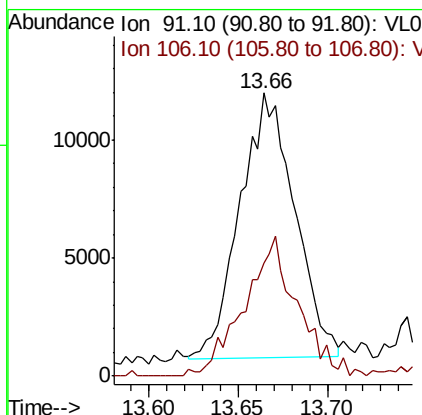
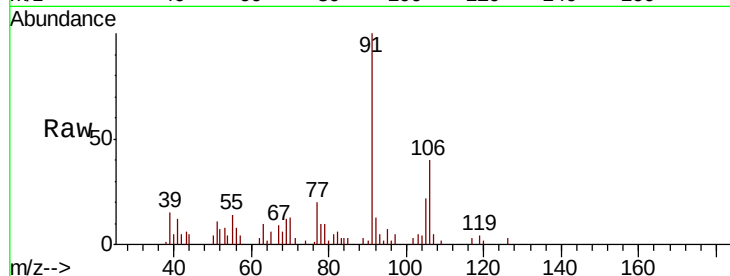




#60
o-Xylene
Concen: 0.055 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.04 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

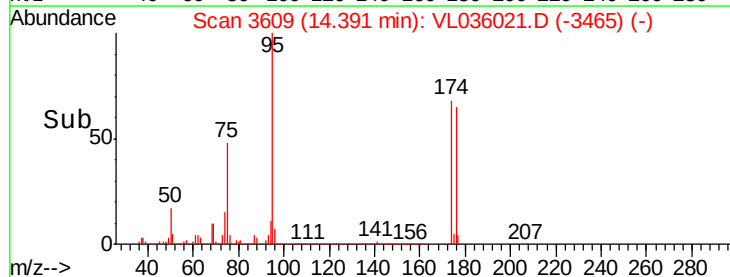
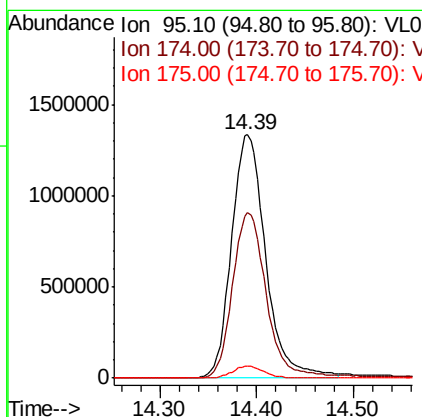
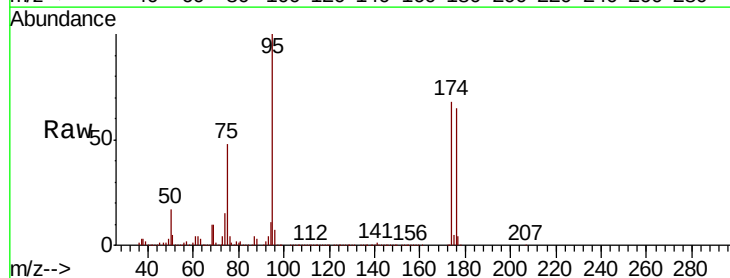
Instrument :
MSVOA_L
ClientSampled :

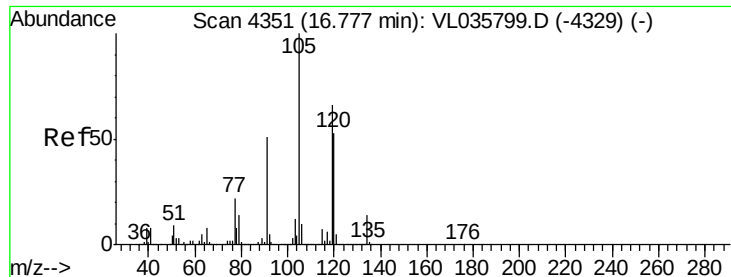
Tot Ion: 91 Resp: 23933
Ion Ratio Lower Upper
91 100
106 52.7 24.8 74.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.552 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion: 95 Resp: 3273434
Ion Ratio Lower Upper
95 100
174 69.3 59.8 89.6
175 4.8 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.079 ppbv
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.04 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	41058
Ion	Ratio	Lower	Upper
105	100		
120	50.4	42.0	63.0
91	12.4	41.0	61.6#
77	14.7	17.3	25.9#

