

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034988.D
 Acq On : 12 May 2020 15:45
 Operator : SY/AP
 Sample : L2567-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DUP

Quant Time: May 13 01:07:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1049568	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2446054	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	2250515	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1854977	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	40836	0.274	ppbv 90
3) Chlorodifluoromethane	2.94	51	41127	0.343	ppbv 93
4) Chloromethane	3.10	50	34939	0.509	ppbv 89
8) Dichlorotetrafluoroethane	3.15	85	3298	0.021	ppbv 85
9) Propene	3.16	41	112943	2.172	ppbv 93
10) Heptane	8.13	43	112356	0.862	ppbv 100
11) Trichlorofluoromethane	3.92	101	40300	0.262	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	6349	0.058	ppbv # 67
13) Ethanol	3.57	45	319738	18.634	ppbv 100
15) Acetone	3.82	43	1083688	7.810	ppbv 99
16) 1,3-Butadiene	3.27	39	30707	0.514	ppbv # 8
17) tert-Butyl alcohol	4.28	59	177137	1.435	ppbv # 71
19) Isopropyl Alcohol	3.94	45	422684	4.568	ppbv # 96
20) Methylene Chloride	4.32	84	228705	4.979	ppbv 94
21) Allyl Chloride	4.34	41	15524	0.198	ppbv # 28
23) Vinyl Acetate	5.03	43	59393	0.338	ppbv # 1
25) Ethyl Acetate	5.67	43	444159	1.906	ppbv # 90
26) Hexane	5.67	57	392701	3.886	ppbv # 58
29) Chloroform	5.74	83	4838	0.029	ppbv 89
30) Cyclohexane	7.13	84	37947	0.487	ppbv 89
31) cis-1,2-Dichloroethene	5.54	61	5420	0.055	ppbv # 91
34) 2-Butanone	5.24	43	59739	0.393	ppbv 96
35) Carbon Tetrachloride	7.02	117	4828	0.031	ppbv # 39
36) Benzene	6.89	78	121684	0.603	ppbv # 93
38) Trichloroethene	7.84	130	177447	2.271	ppbv 92
39) 1,2-Dichloropropane	7.18	63	658901	8.150	ppbv # 26
41) Tetrahydrofuran	6.04	42	5924	0.074	ppbv # 37
44) 2,2,4-Trimethylpentane	7.87	57	126417	0.353	ppbv # 40
51) 2-Hexanone	10.14	43	4072	0.024	ppbv # 29
52) Tetrachloroethene	11.25	164	1165270	16.250	ppbv 98
53) Toluene	9.82	91	2742550	12.829	ppbv 100
58) Ethyl Benzene	12.74	91	218525	0.785	ppbv 97
59) m/p-Xylene	13.02	91	116632	0.476	ppbv # 8
60) o-Xylene	13.72	91	235927	0.976	ppbv 98
61) Styrene	13.56	104	49732	0.325	ppbv 93
65) tert-Butylbenzene	16.79	119	15977	0.051	ppbv # 23
72) 4-Ethyltoluene	15.87	105	35554	0.132	ppbv # 77
73) 1,3,5-Trimethylbenzene	16.03	105	27562	0.105	ppbv 95
74) 1,2,4-Trimethylbenzene	16.80	105	181328	0.633	ppbv # 73
79) Naphthalene	22.25	128	8827	0.040	ppbv # 80
80) Naphthalene,2-methyl-	25.01	142	7752	0.141	ppbv # 76

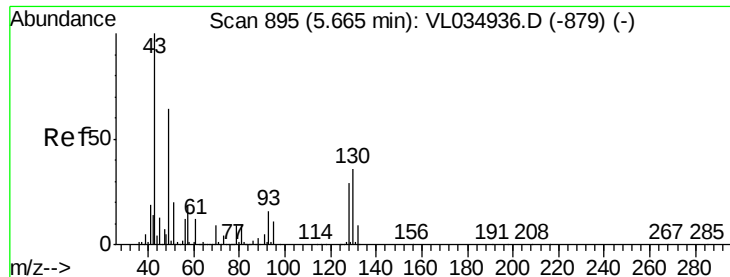
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL034988.D
Acq On : 12 May 2020 15:45
Operator : SY/AP
Sample : L2567-01DUP
Misc : 400ml/MSVOA L
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Quant Time: May 13 01:07:27 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

IA-4DUP

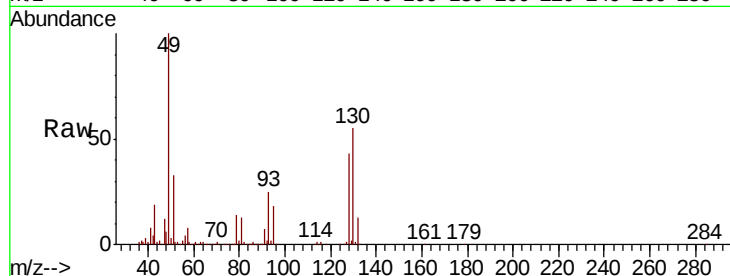
Tot Ion: 49 Resp: 1049568

Ion Ratio Lower Upper

49 100

128 45.9 22.1 66.5

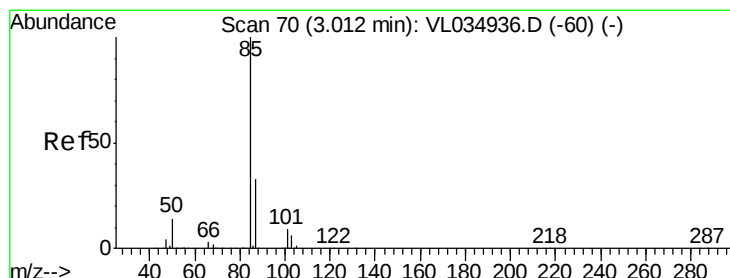
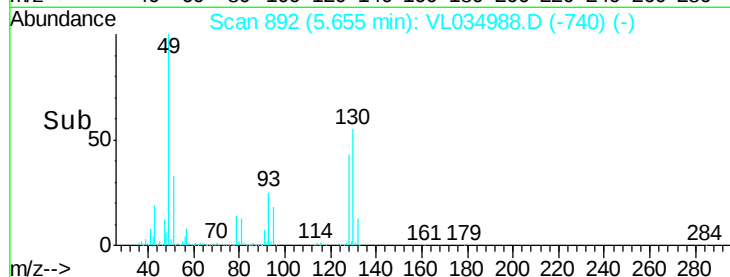
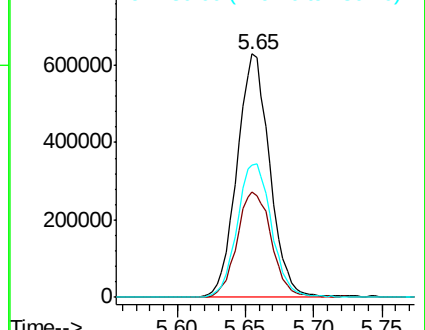
130 57.7 29.1 87.3



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: 0.274 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL034988.D

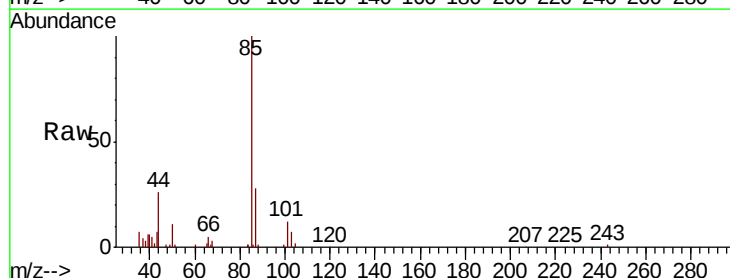
Acq: 12 May 2020 15:45

Tgt Ion: 85 Resp: 40836

Ion Ratio Lower Upper

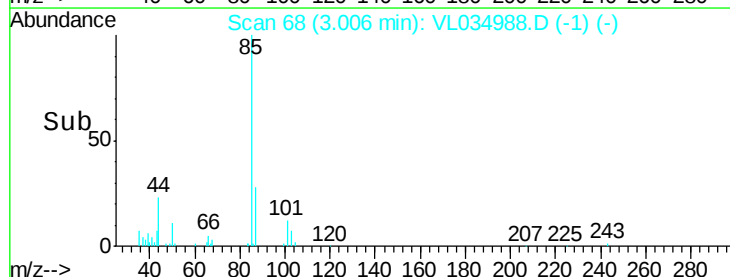
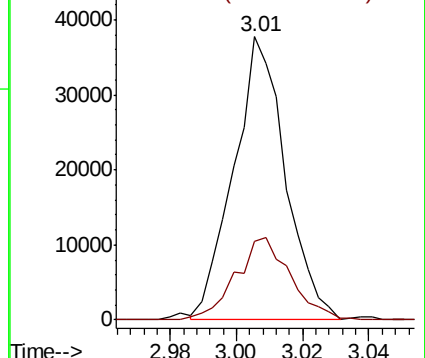
85 100

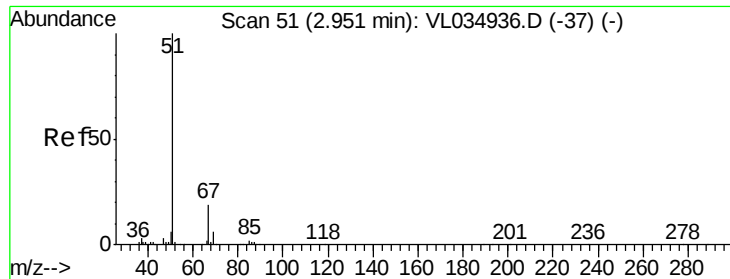
87 27.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.343 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

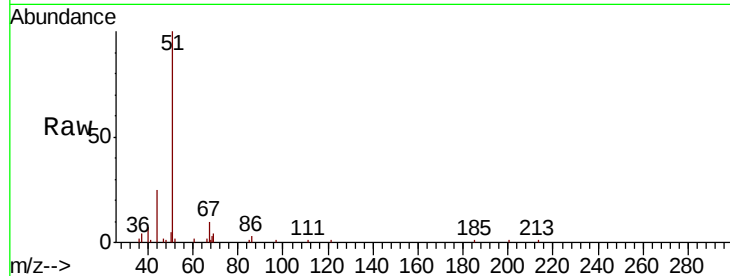
IA-4DUP

Tot Ion: 51 Resp: 41127

Ion Ratio Lower Upper

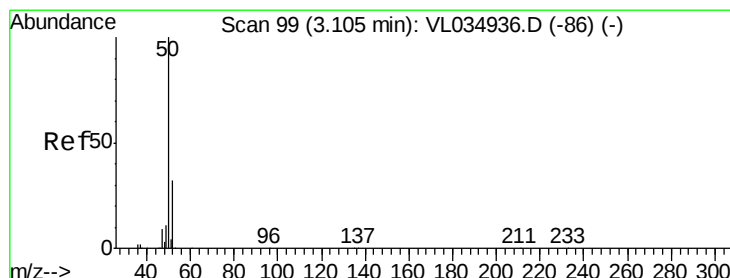
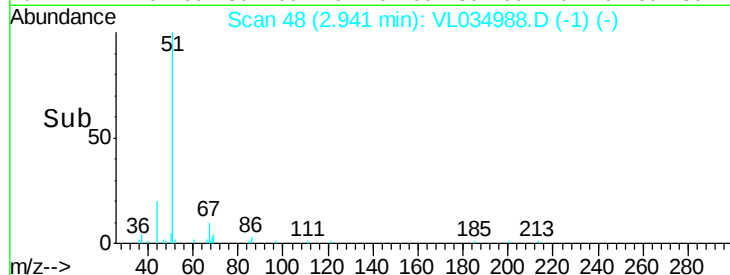
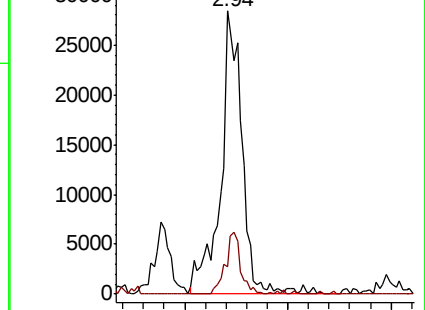
51 100

67 15.8 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.509 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.01 min

Lab File: VL034988.D

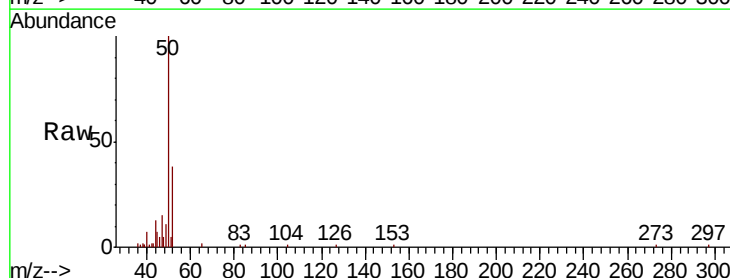
Acq: 12 May 2020 15:45

Tgt Ion: 50 Resp: 34939

Ion Ratio Lower Upper

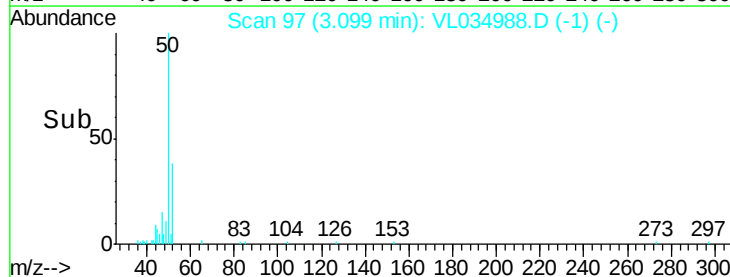
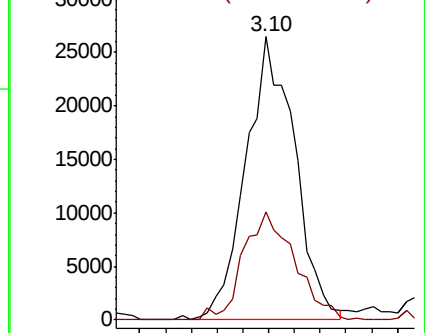
50 100

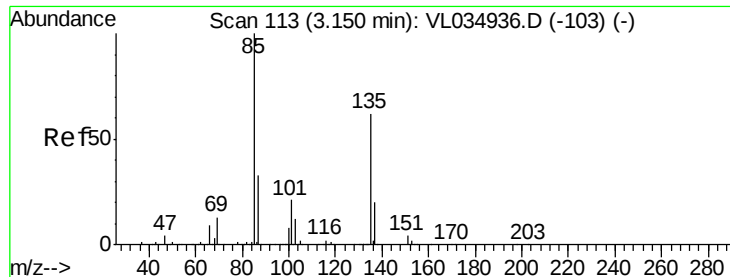
52 38.1 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.021 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

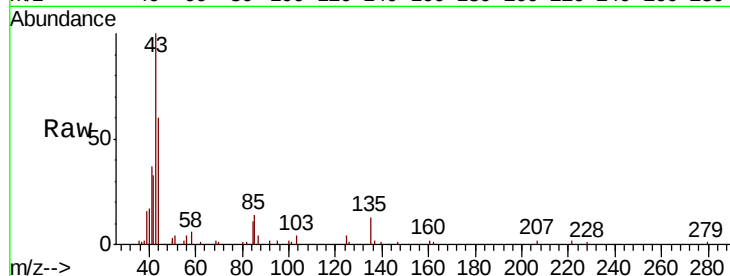
IA-4DUP

Tot Ion: 85 Resp: 3298

Ion Ratio Lower Upper

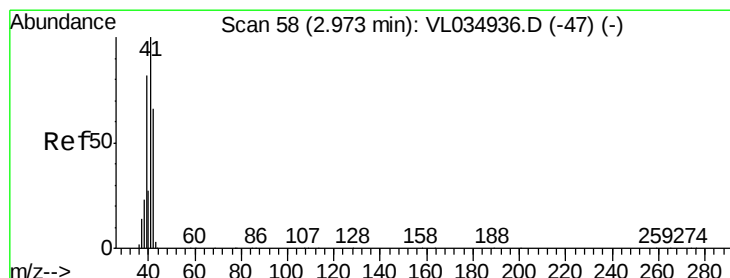
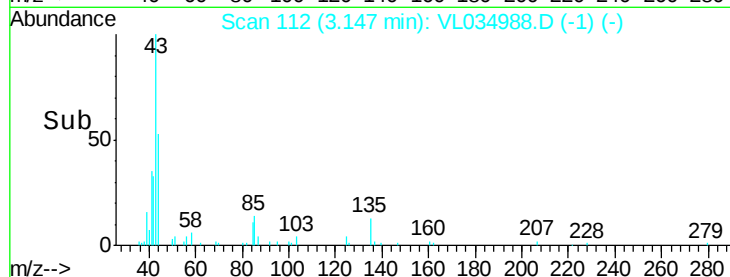
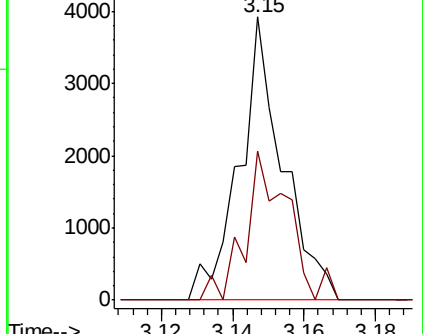
85 100

135 52.0 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 2.172 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.19 min

Lab File: VL034988.D

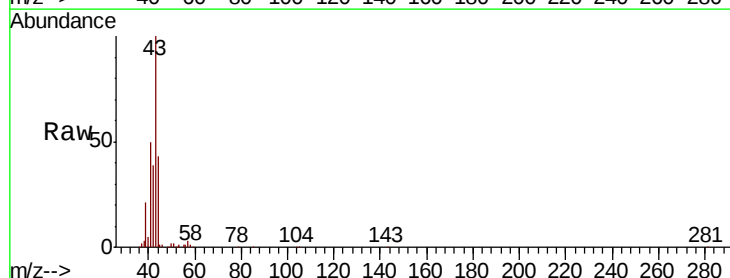
Acq: 12 May 2020 15:45

Tgt Ion: 41 Resp: 112943

Ion Ratio Lower Upper

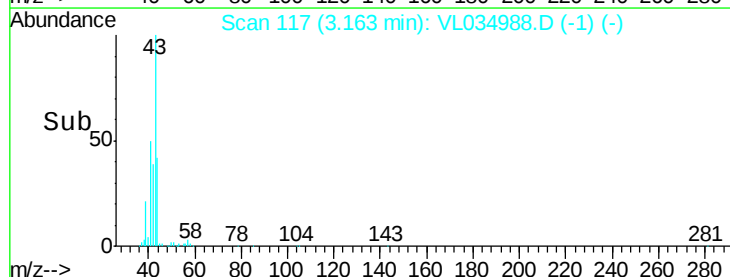
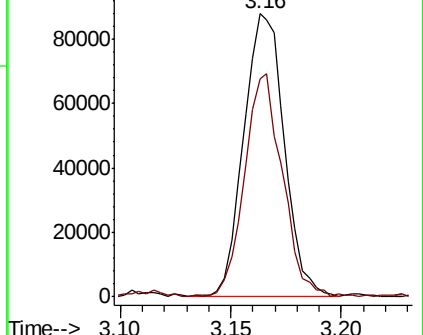
41 100

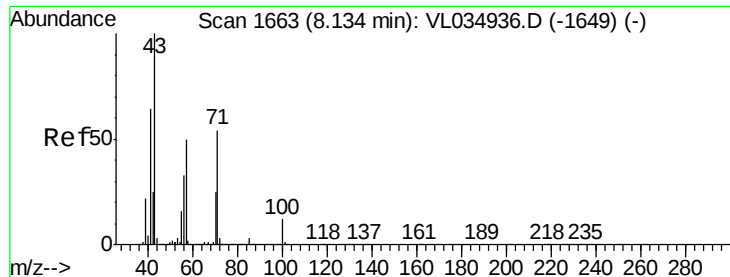
42 73.7 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

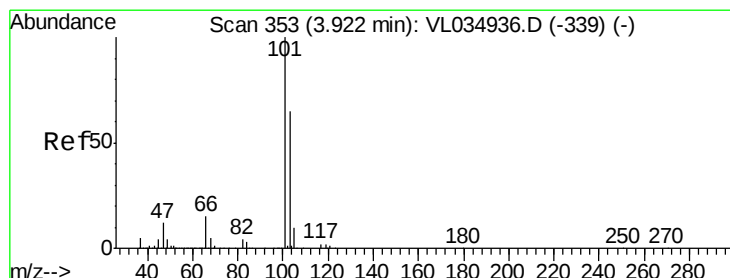
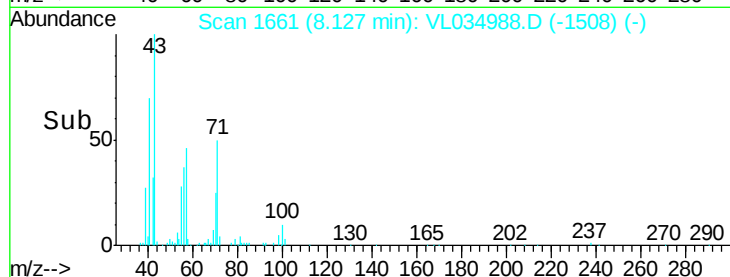
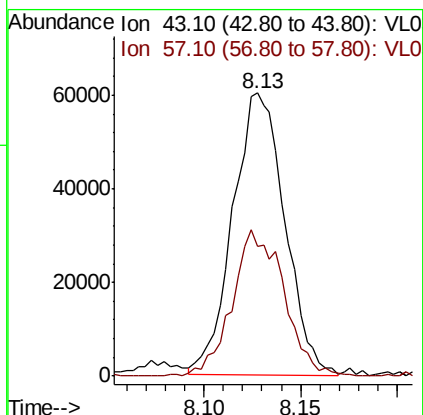
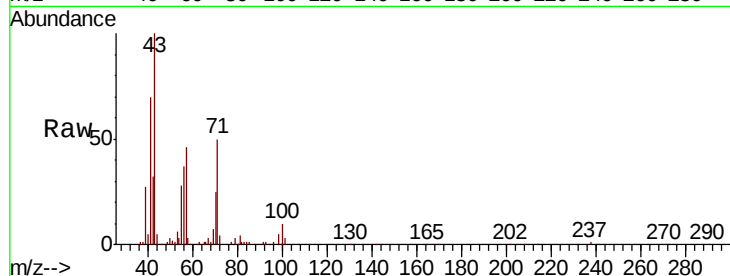




#10
 Heptane
 Concen: 0.862 ppbv
 RT: 8.13 min Scan# 1661
 Delta R.T. -0.01 min
 Lab File: VL034988.D
 Acq: 12 May 2020 15:45

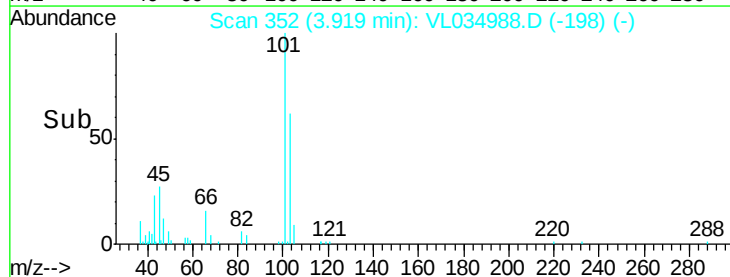
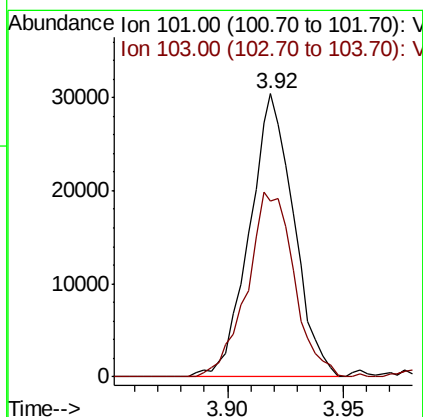
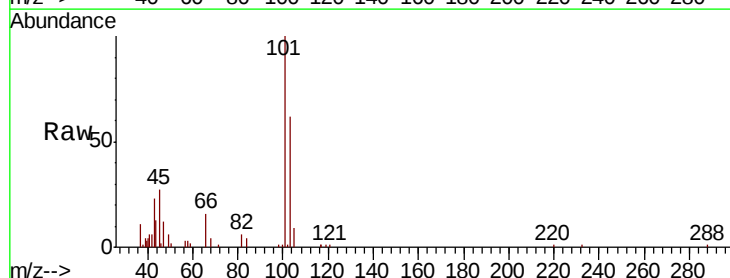
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DUP

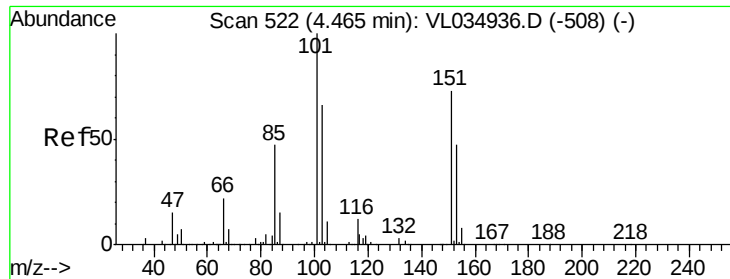
Tot Ion: 43 Resp: 112356
 Ion Ratio Lower Upper
 43 100
 57 51.5 41.1 61.7



#11
 Trichlorofluoromethane
 Concen: 0.262 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL034988.D
 Acq: 12 May 2020 15:45

Tgt Ion:101 Resp: 40300
 Ion Ratio Lower Upper
 101 100
 103 61.9 51.9 77.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.058 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

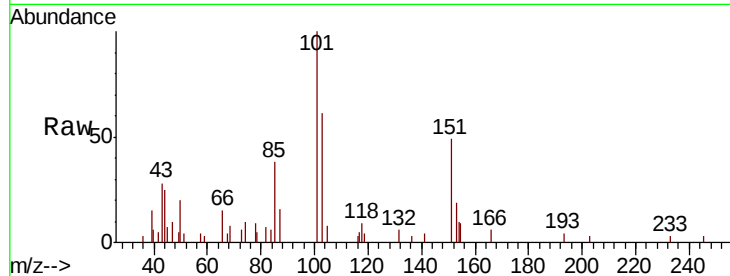
IA-4DUP

Tot Ion:101 Resp: 6349

Ion Ratio Lower Upper

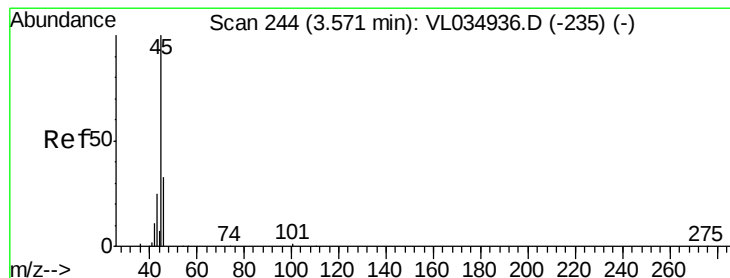
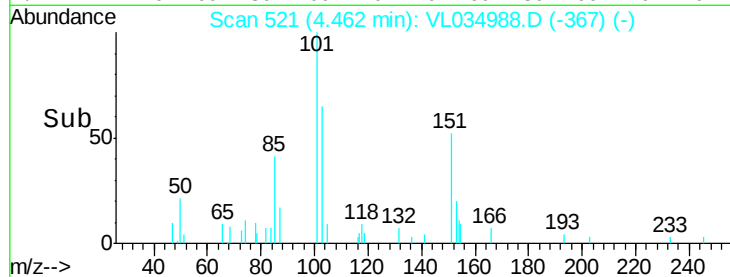
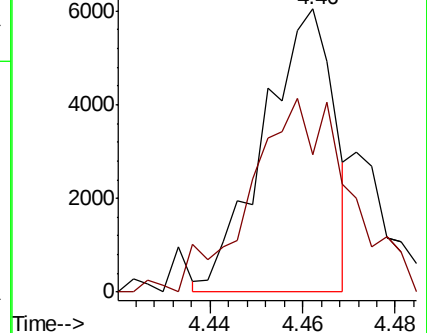
101 100

151 99.2 57.6 86.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 18.634 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL034988.D

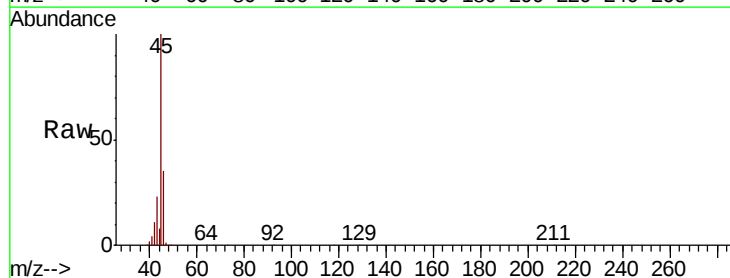
Acq: 12 May 2020 15:45

Tgt Ion: 45 Resp: 319738

Ion Ratio Lower Upper

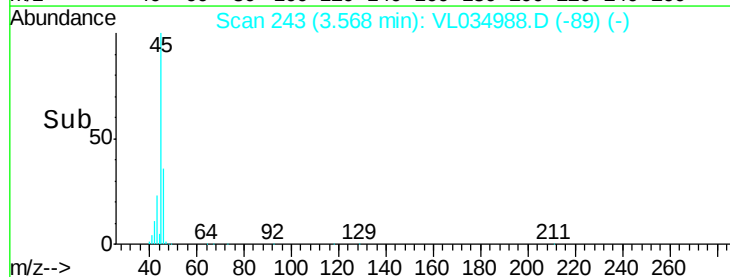
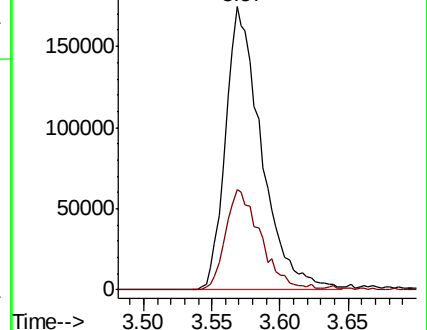
45 100

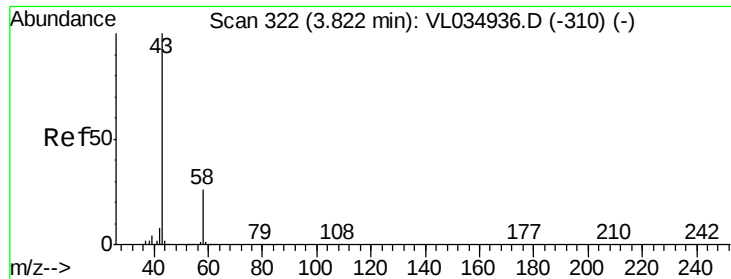
46 35.7 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.810 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

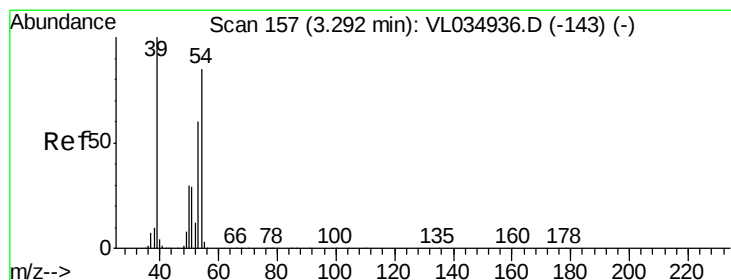
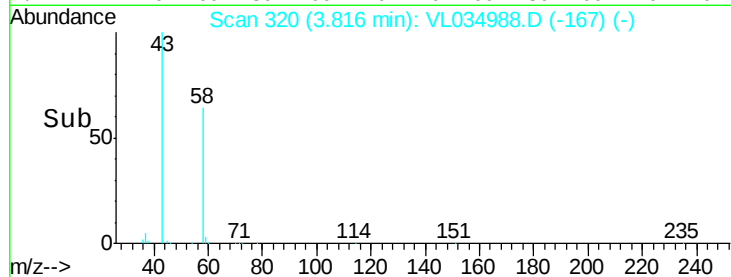
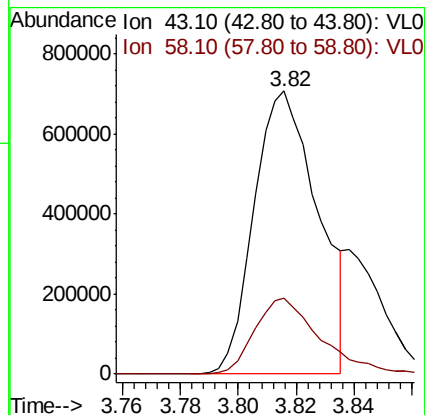
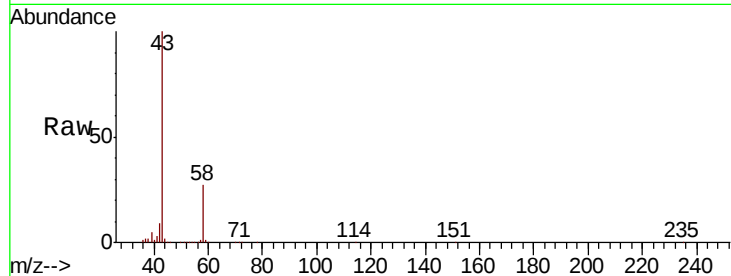
IA-4DUP

Tot Ion: 43 Resp: 1083688

Ion Ratio Lower Upper

43 100

58 27.9 21.7 32.5



#16

1,3-Butadiene

Concen: 0.514 ppbv

RT: 3.27 min Scan# 149

Delta R.T. -0.03 min

Lab File: VL034988.D

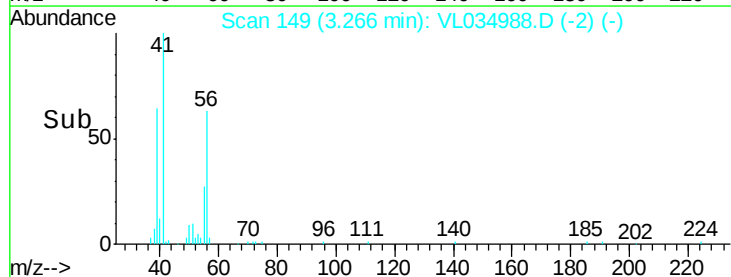
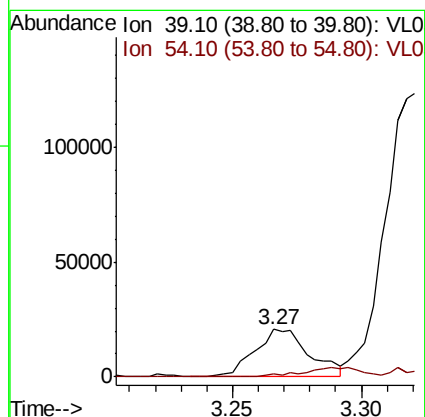
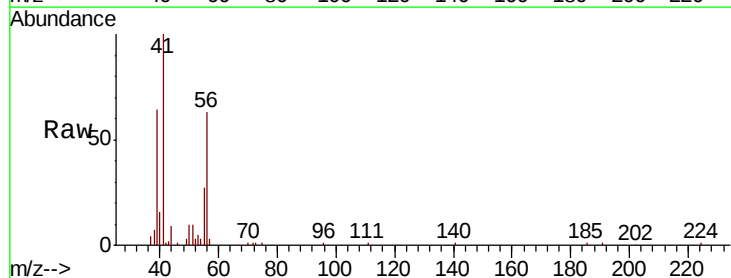
Acq: 12 May 2020 15:45

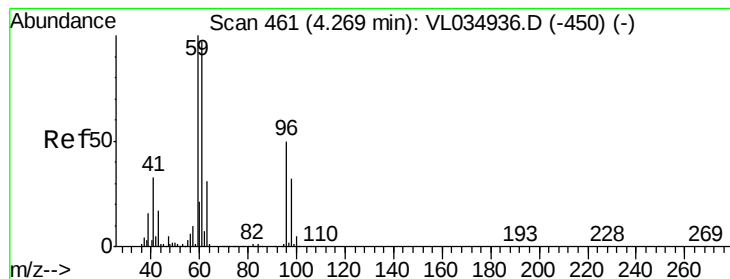
Tgt Ion: 39 Resp: 30707

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#



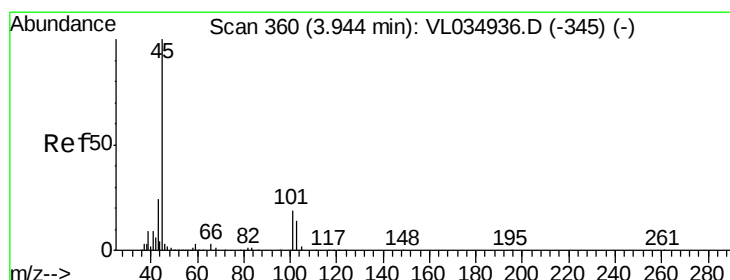
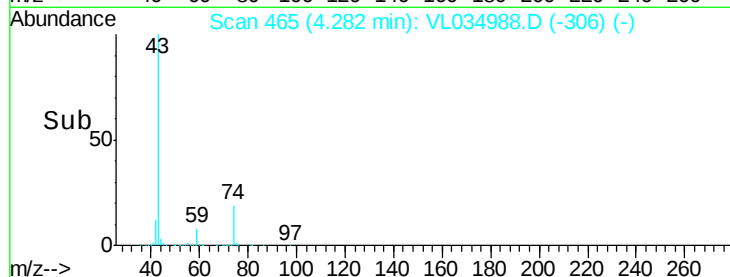
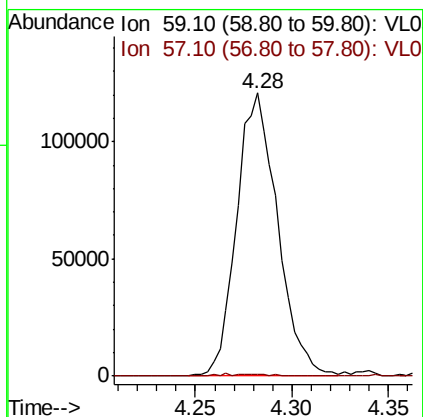
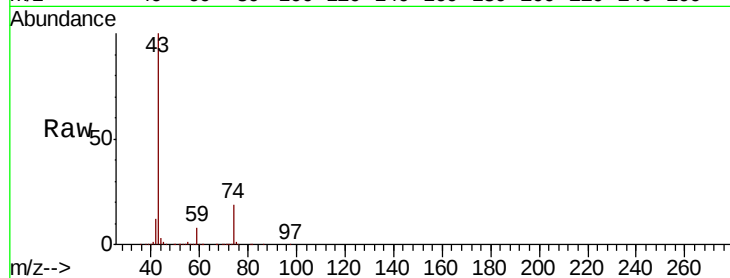


#17

tert-Butyl alcohol
Concen: 1.435 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Instrument :
MSVOA_L
ClientSampleId :
IA-4DUP

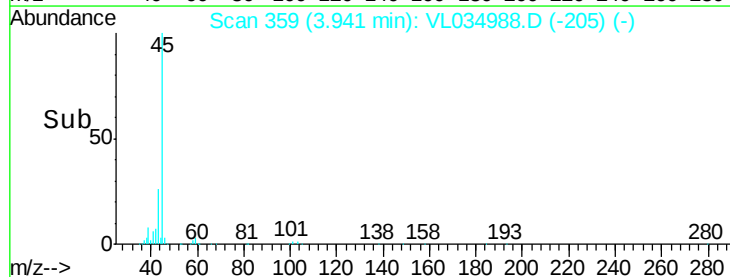
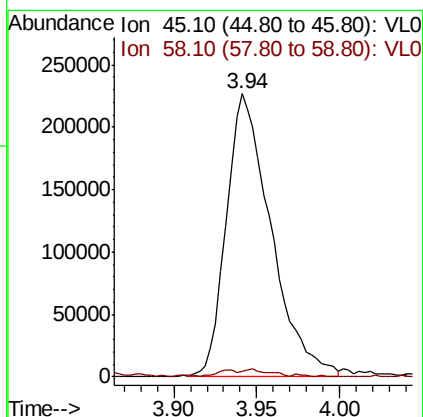
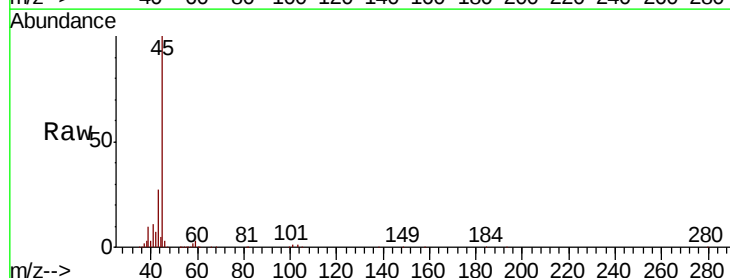
Tot Ion: 59 Resp: 177137
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

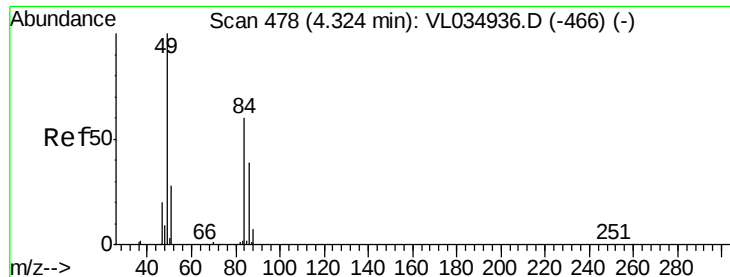


#19

Isopropyl Alcohol
Concen: 4.568 ppbv
RT: 3.94 min Scan# 359
Delta R.T. -0.00 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Tgt Ion: 45 Resp: 422684
Ion Ratio Lower Upper
45 100
58 3.5 1.7 2.5#

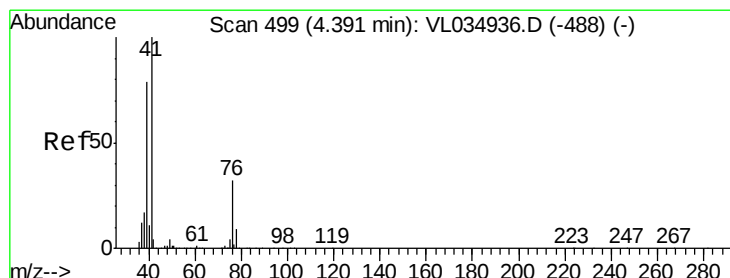
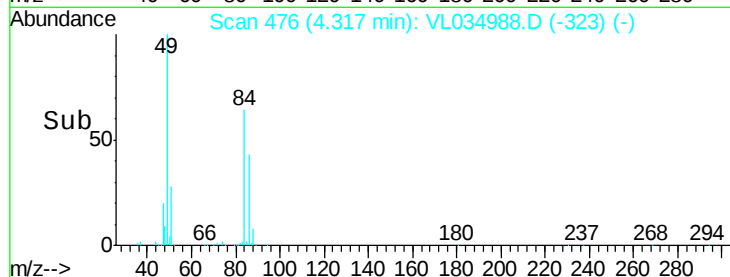
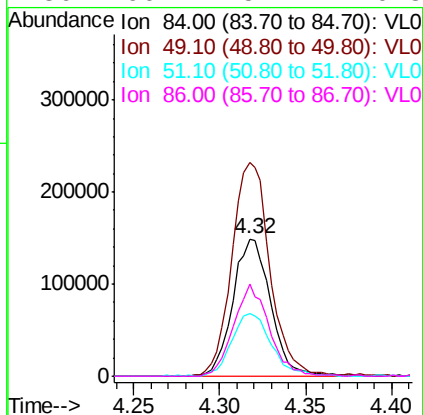
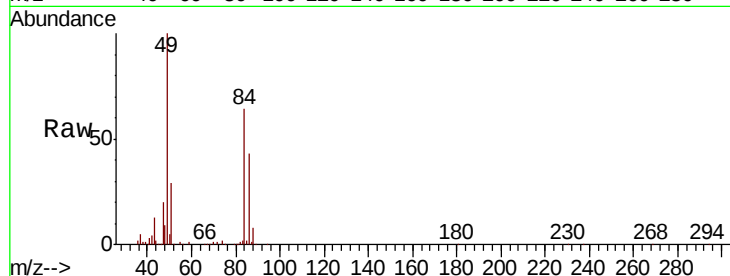




#20
Methylene Chloride
Concen: 4.979 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

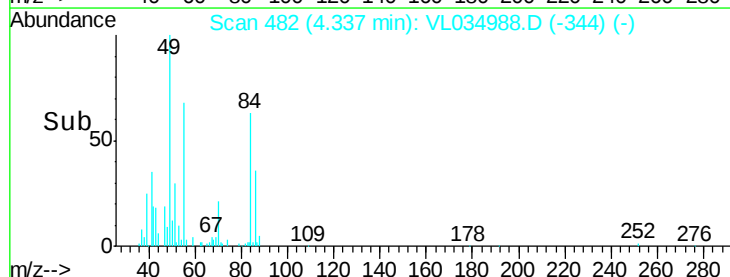
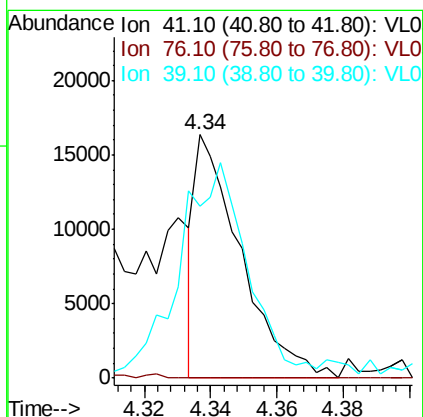
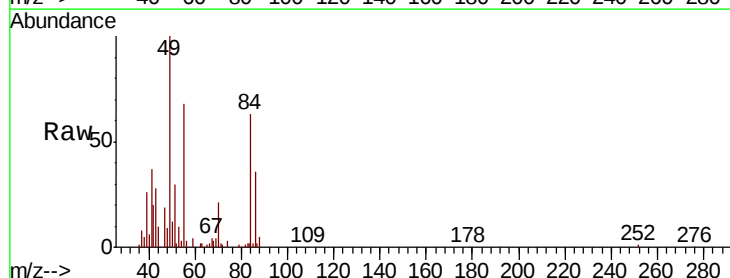
Instrument :
MSVOA_L
ClientSampleId :
IA-4DUP

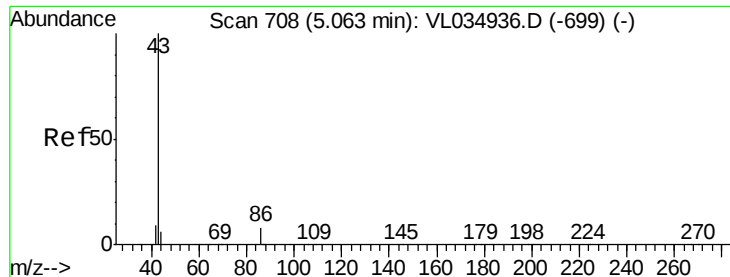
Tot Ion: 84 Resp: 228705
Ion Ratio Lower Upper
84 100
49 155.6 132.5 198.7
51 45.0 38.4 57.6
86 66.7 51.2 76.8



#21
Allyl Chloride
Concen: 0.198 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.05 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Tgt Ion: 41 Resp: 15524
Ion Ratio Lower Upper
41 100
76 0.0 23.6 35.4#
39 145.8 61.9 92.9#





#23

Vinyl Acetate

Concen: 0.338 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.03 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

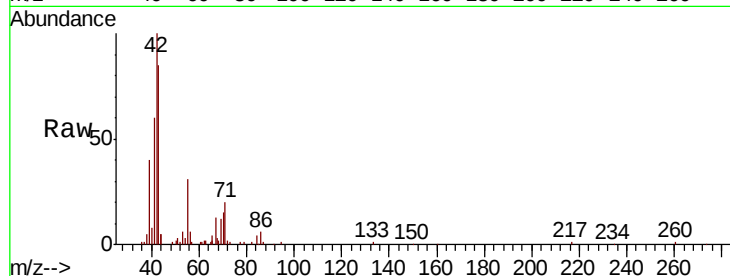
MSVOA_L

ClientSampleId :

IA-4DUP

Tot Ion: 43 Resp: 59393

Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.5	8.3
42	111.0	8.0	12.0#
44	5.6	4.5	6.7

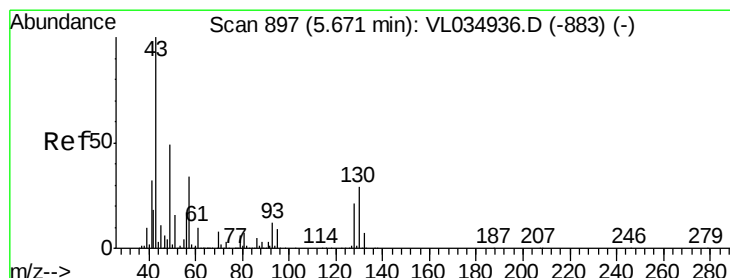
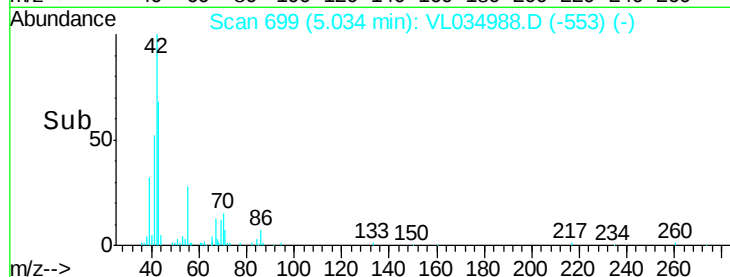
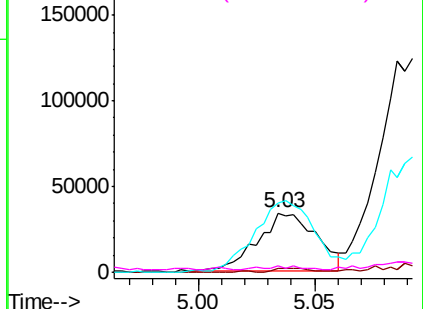


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.906 ppbv

RT: 5.67 min Scan# 897

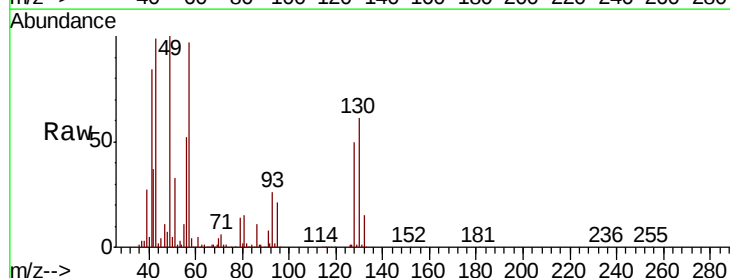
Delta R.T. -0.00 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Tgt Ion: 43 Resp: 444159

Ion	Ratio	Lower	Upper
43	100		
45	6.1	8.1	12.1#
61	5.4	7.8	11.8#
70	4.9	6.0	9.0#

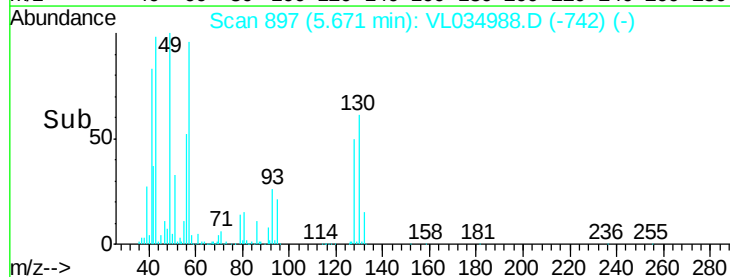
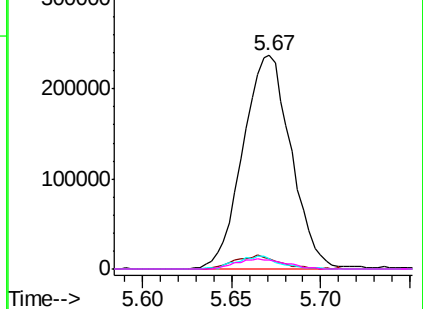


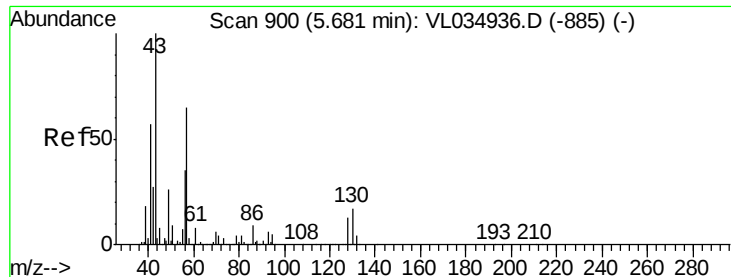
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

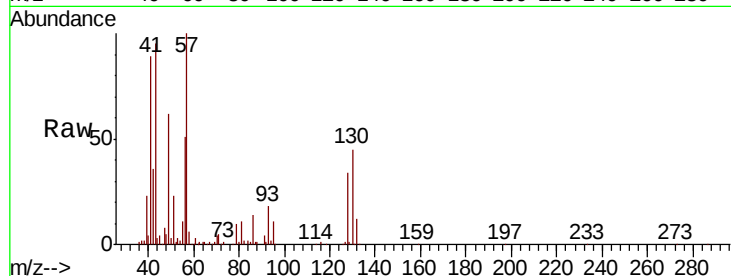




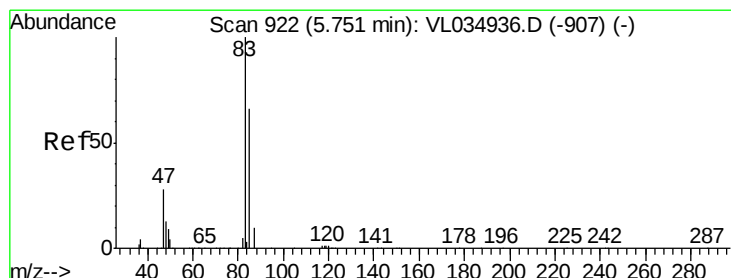
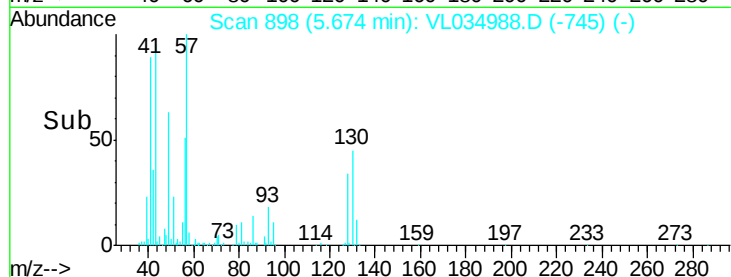
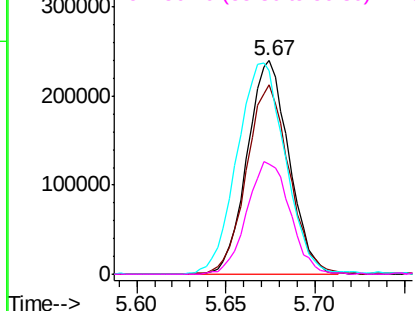
#26
Hexane
Concen: 3.886 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Instrument :
MSVOA_L
ClientSampleId :
IA-4DUP

Tot Ion: 57 Resp: 392701
Ion Ratio Lower Upper
57 100
41 91.1 72.7 109.1
43 115.0 182.1 273.1#
56 54.4 42.2 63.2

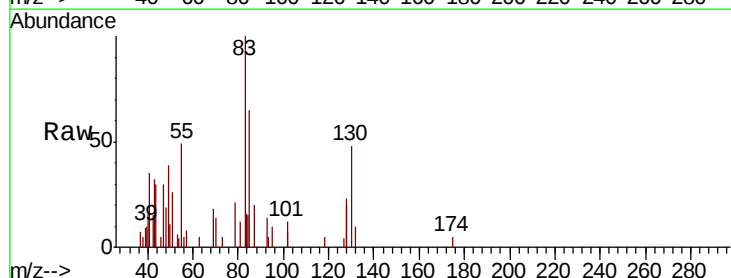


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

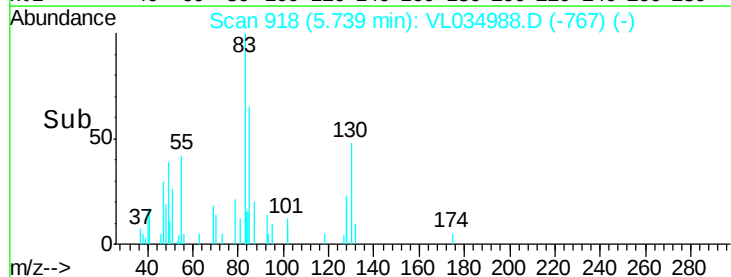
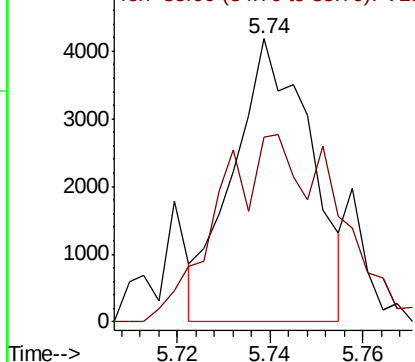


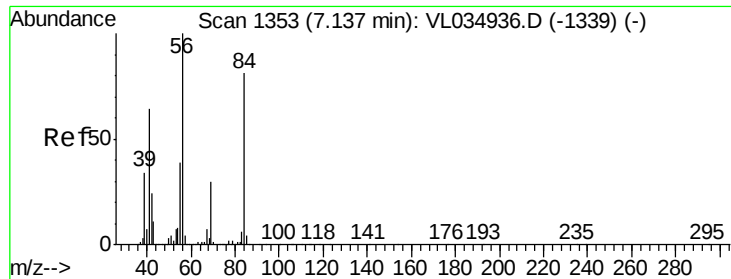
#29
Chloroform
Concen: 0.029 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Tgt Ion: 83 Resp: 4838
Ion Ratio Lower Upper
83 100
85 57.6 53.0 79.6



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

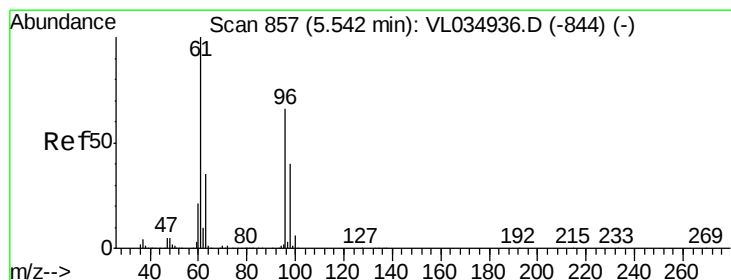
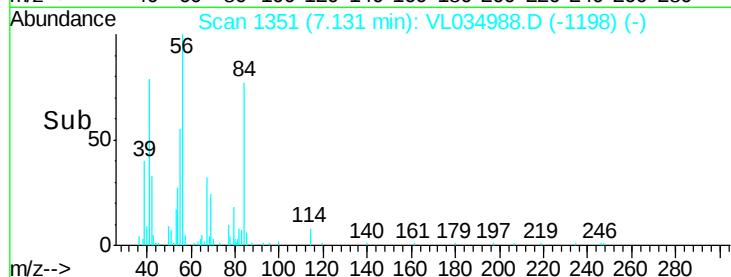
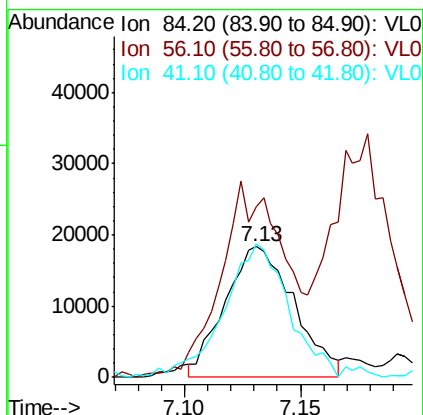
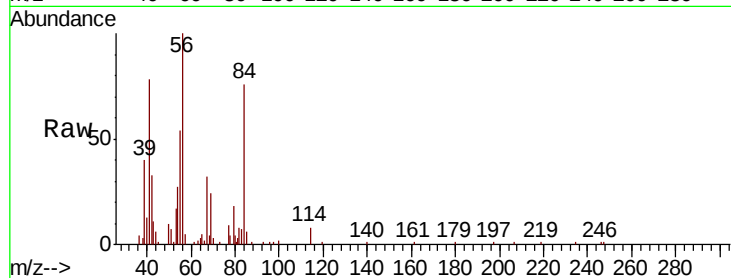




#30
Cvclohexane
Concen: 0.487 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

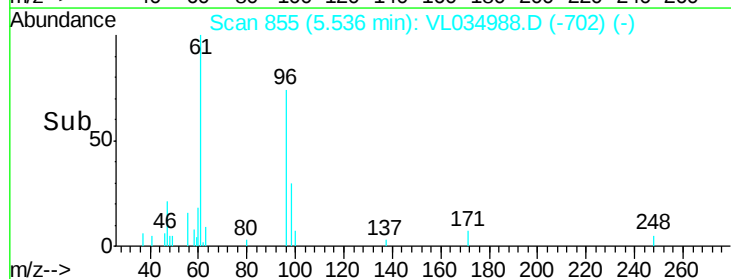
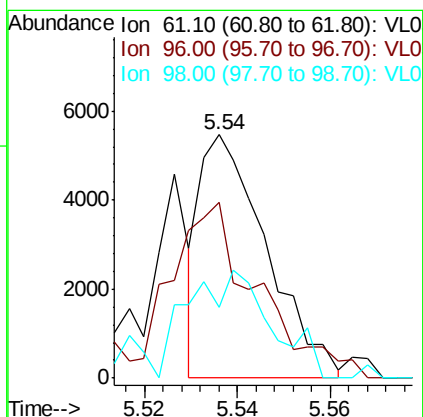
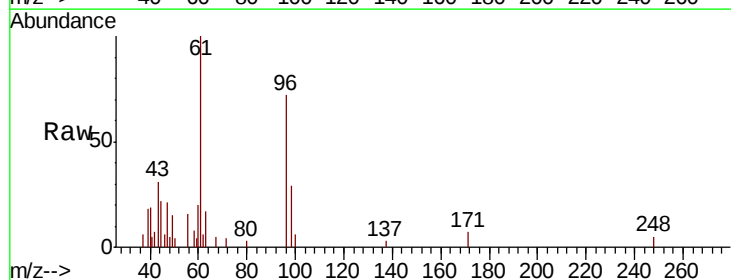
Instrument :
MSVOA_L
ClientSampleId :
IA-4DUP

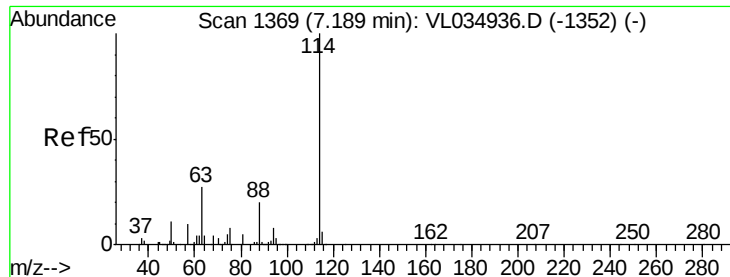
Tot Ion: 84 Resp: 37947
Ion Ratio Lower Upper
84 100
56 148.3 111.4 167.2
41 99.6 66.7 100.1



#31
cis-1,2-Dichloroethene
Concen: 0.055 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Tgt Ion: 61 Resp: 5420
Ion Ratio Lower Upper
61 100
96 70.1 53.0 79.6
98 31.0 32.2 48.2#

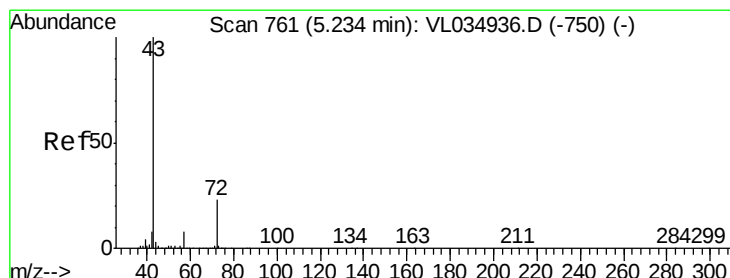
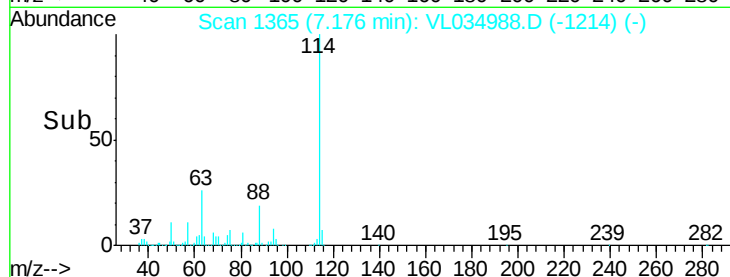
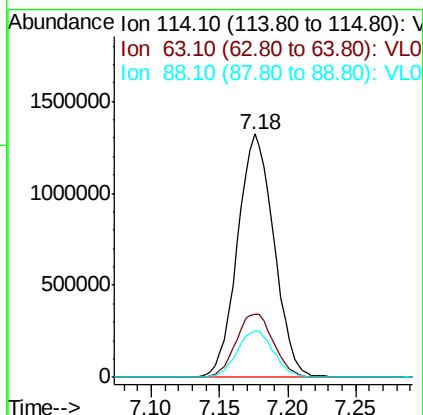
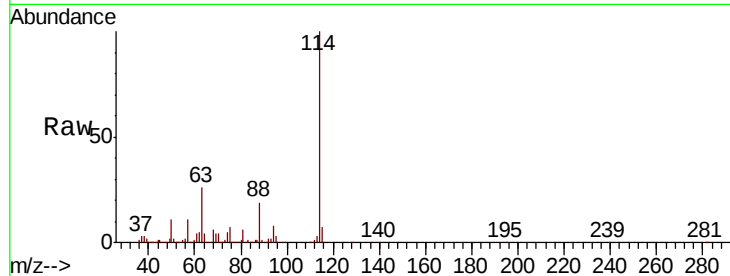




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034988.D
 Acq: 12 May 2020 15:45

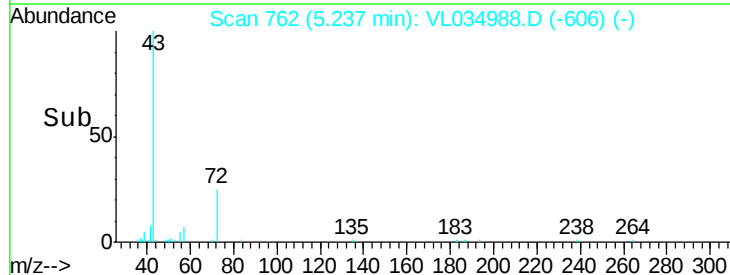
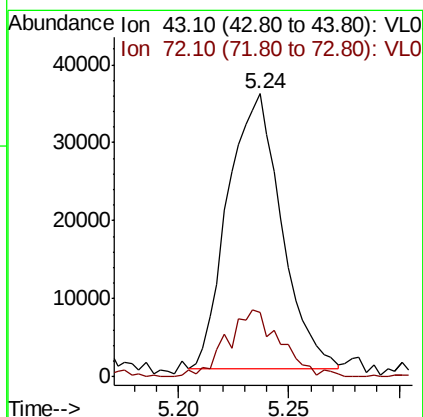
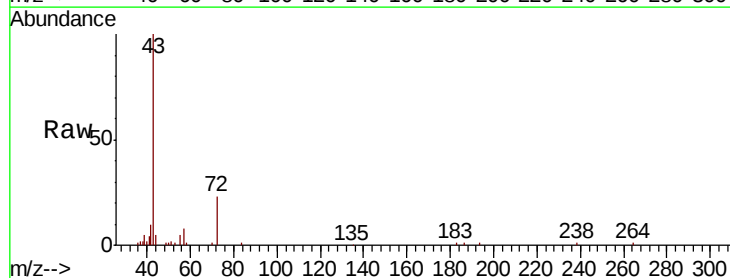
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DUP

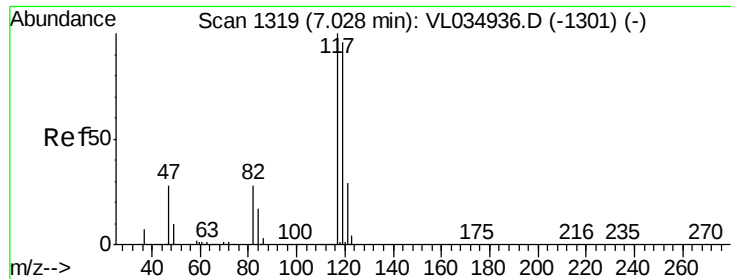
Tot Ion:114 Resp: 2446054
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.2 33.4
 88 19.2 15.5 23.3



#34
 2-Butanone
 Concen: 0.393 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL034988.D
 Acq: 12 May 2020 15:45

Tgt Ion: 43 Resp: 59739
 Ion Ratio Lower Upper
 43 100
 72 24.3 18.0 27.0





#35

Carbon Tetrachloride

Concen: 0.031 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

IA-4DUP

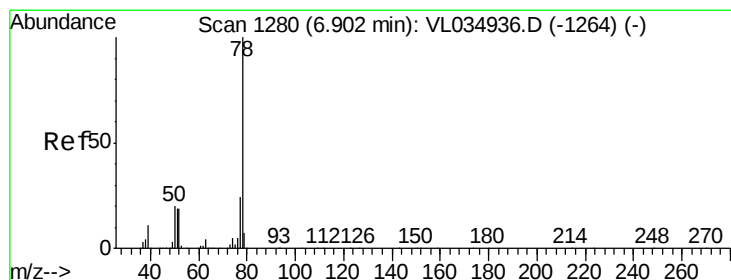
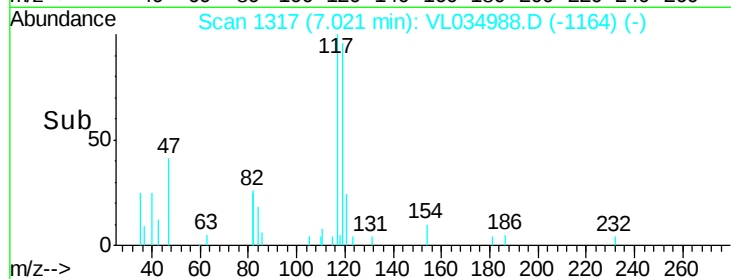
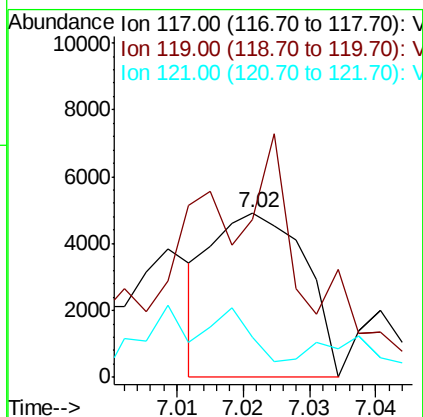
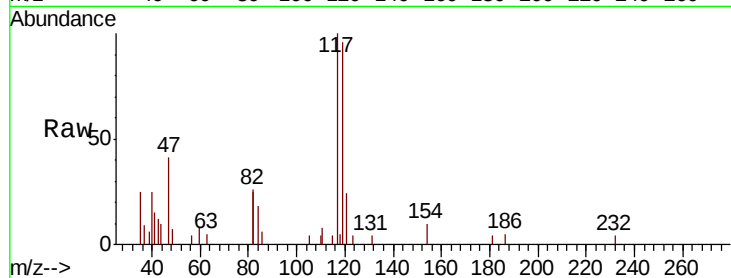
Tot Ion:117 Resp: 4828

Ion Ratio Lower Upper

117 100

119 30.5 77.0 115.6#

121 6.5 23.0 34.6#



#36

Benzene

Concen: 0.603 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

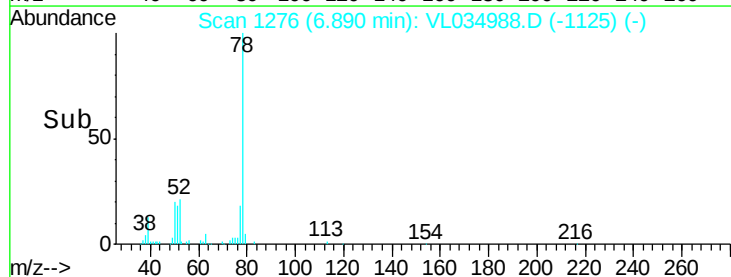
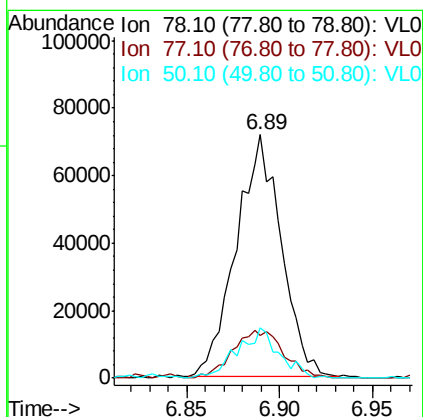
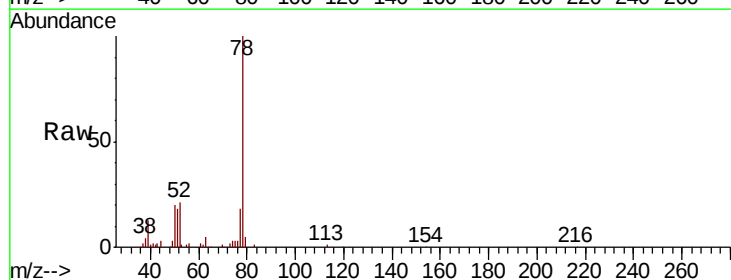
Tgt Ion: 78 Resp: 121684

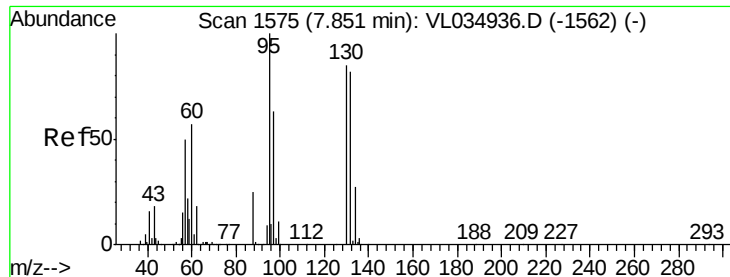
Ion Ratio Lower Upper

78 100

77 17.9 19.0 28.6#

50 20.2 15.8 23.8





#38

Trichloroethene

Concen: 2.271 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

IA-4DUP

Tot Ion:130 Resp: 177447

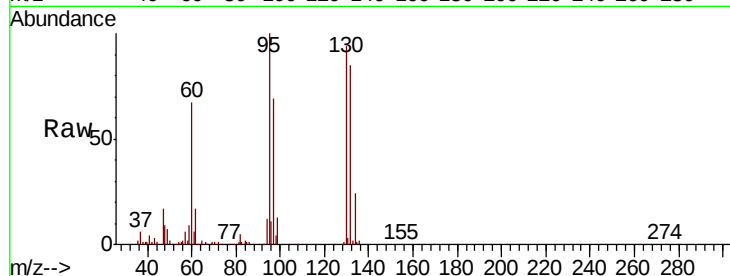
Ion Ratio Lower Upper

130 100

95 103.1 93.4 140.0

132 87.5 76.4 114.6

97 70.9 58.5 87.7

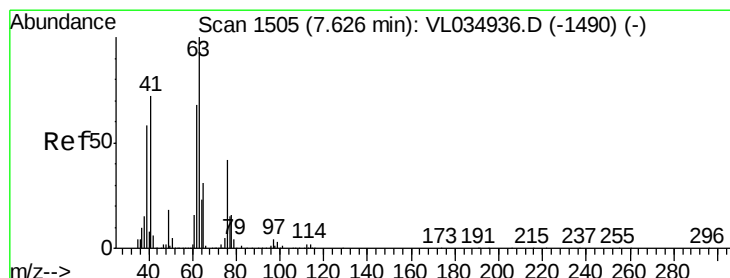
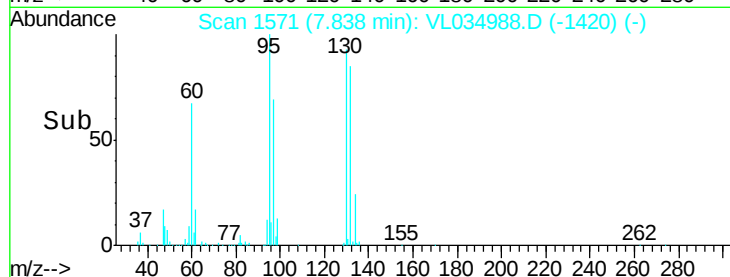
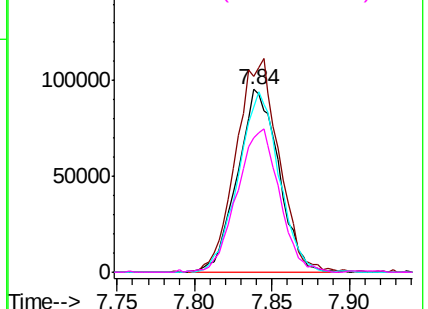


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.150 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

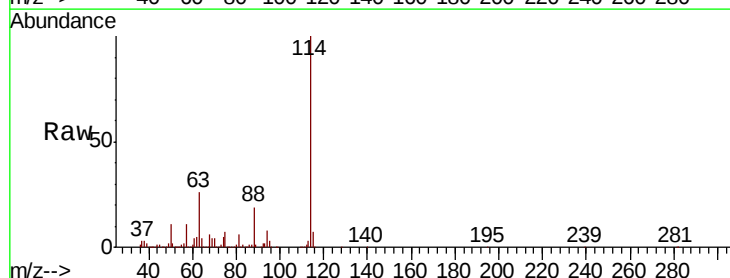
Tgt Ion: 63 Resp: 658901

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

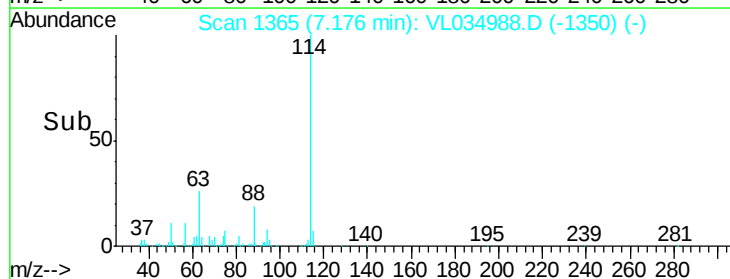
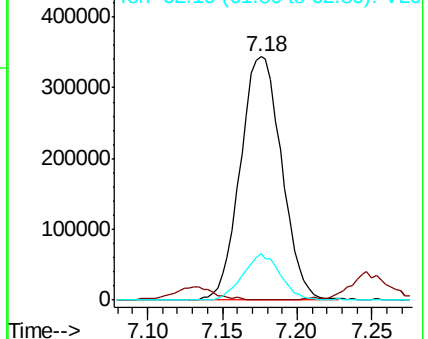
62 18.8 54.2 81.2#

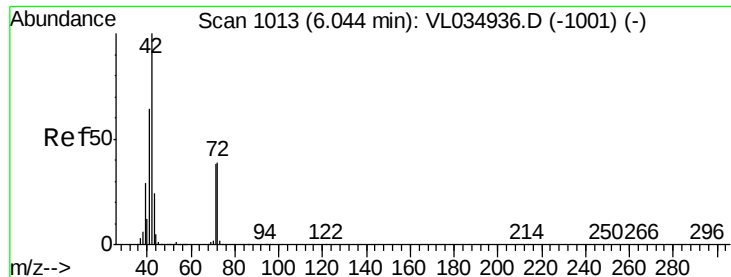


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.074 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

IA-4DUP

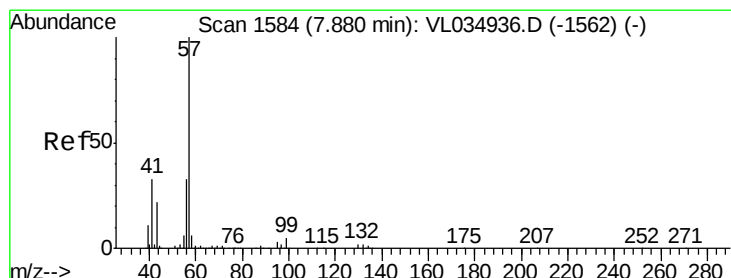
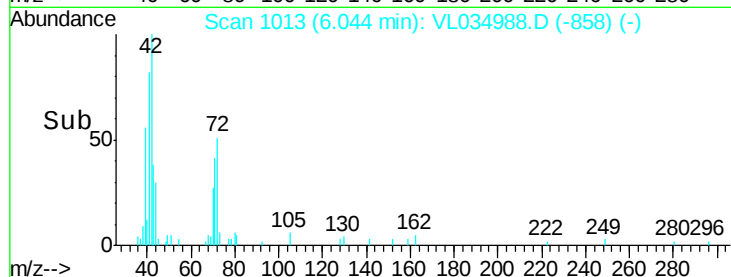
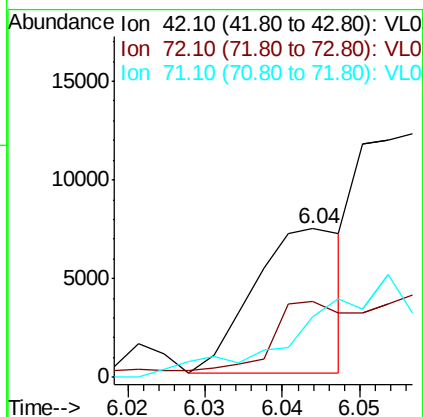
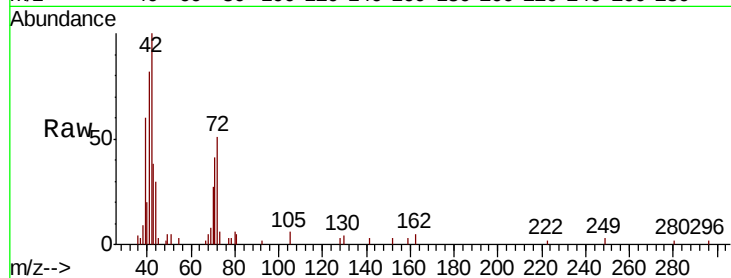
Tot Ion: 42 Resp: 5924

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 29.8 44.8#



#44

2,2,4-Trimethylpentane

Concen: 0.353 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

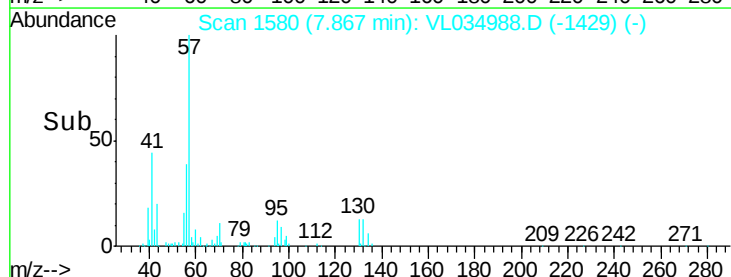
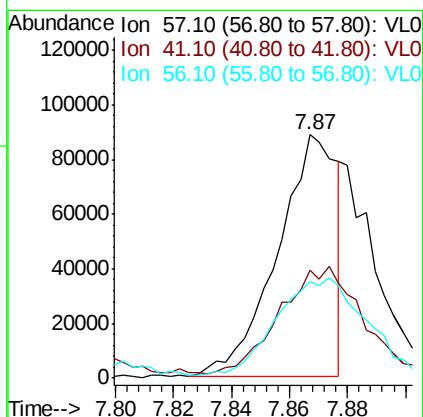
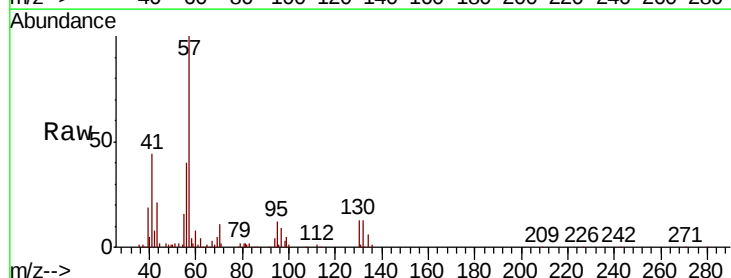
Tgt Ion: 57 Resp: 126417

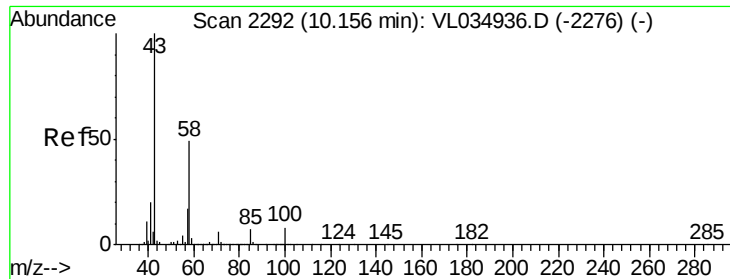
Ion Ratio Lower Upper

57 100

41 69.4 26.4 39.6#

56 62.5 25.5 38.3#

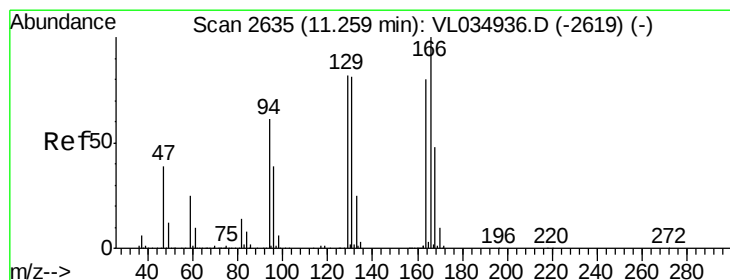
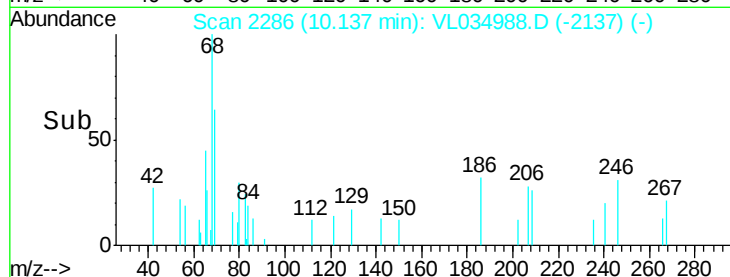
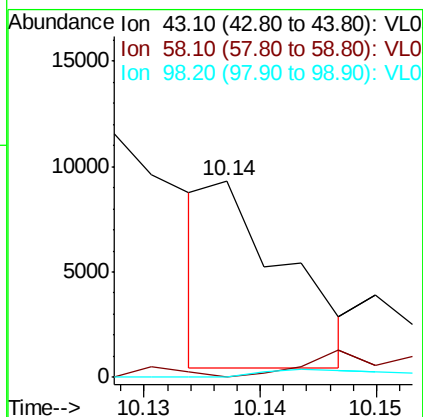
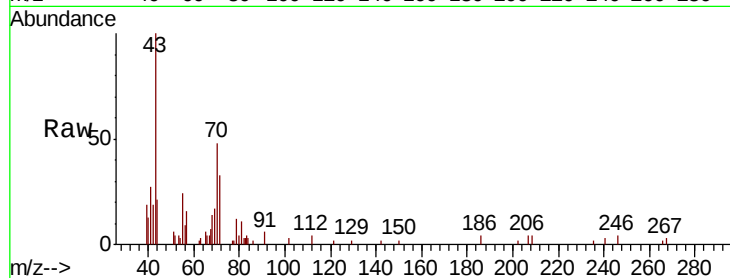




#51
2-Hexanone
Concen: 0.024 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. -0.02 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

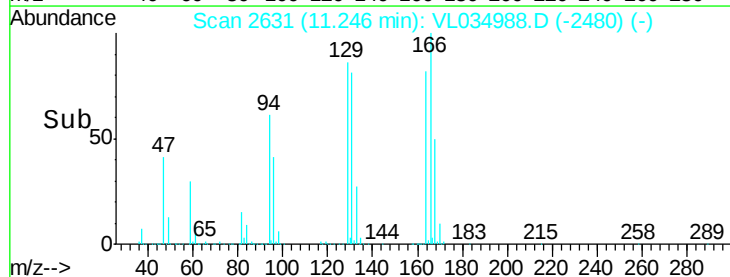
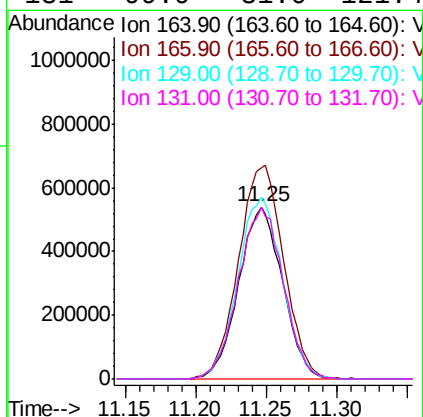
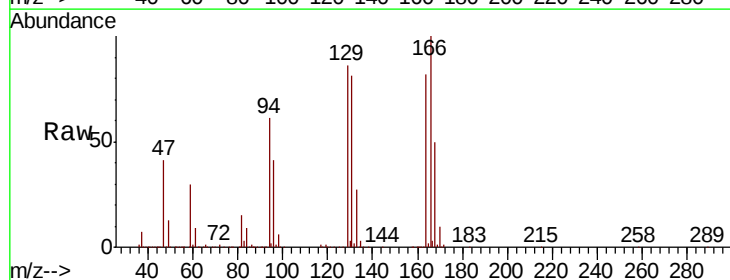
Instrument :
MSVOA_L
ClientSampleId :
IA-4DUP

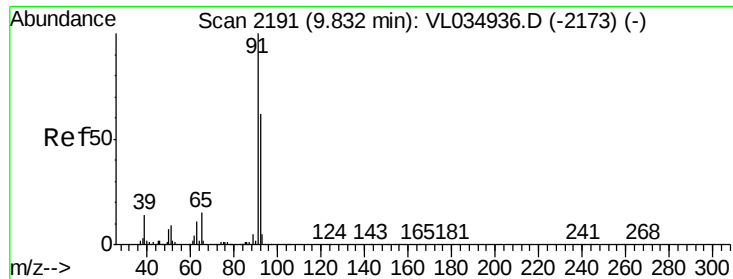
Tot Ion: 43 Resp: 4072
Ion Ratio Lower Upper
43 100
58 0.0 39.1 58.7#
98 0.0 0.3 0.5#



#52
Tetrachloroethene
Concen: 16.250 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Tgt Ion: 164 Resp: 1165270
Ion Ratio Lower Upper
164 100
166 122.5 100.7 151.1
129 105.4 83.0 124.4
131 99.9 81.0 121.4





#53

Toluene

Concen: 12.829 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

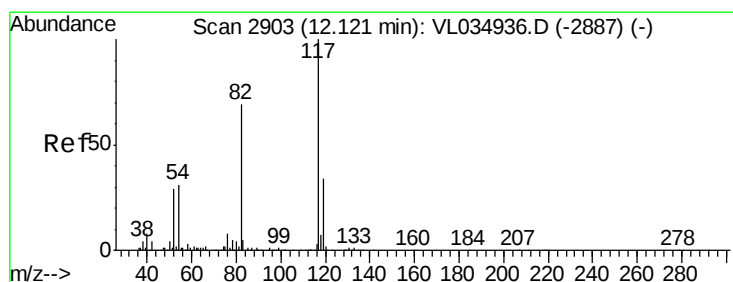
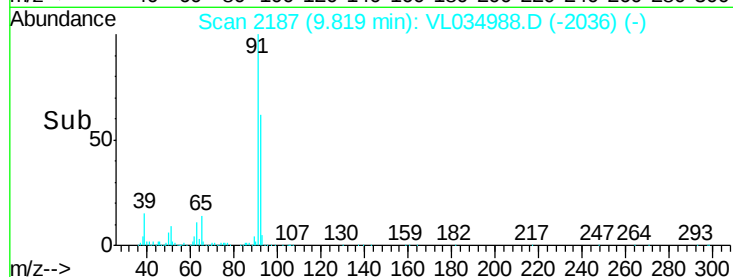
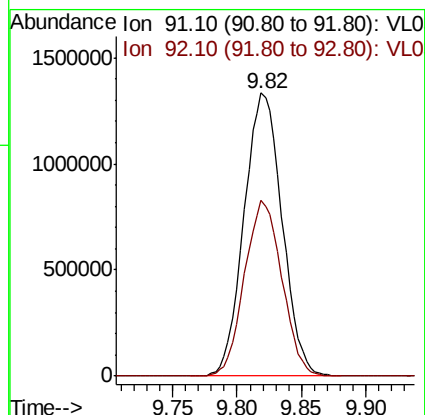
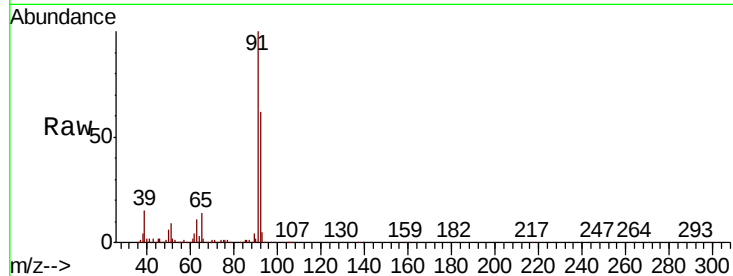
IA-4DUP

Tot Ion: 91 Resp: 2742550

Ion Ratio Lower Upper

91 100

92 61.1 48.6 73.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

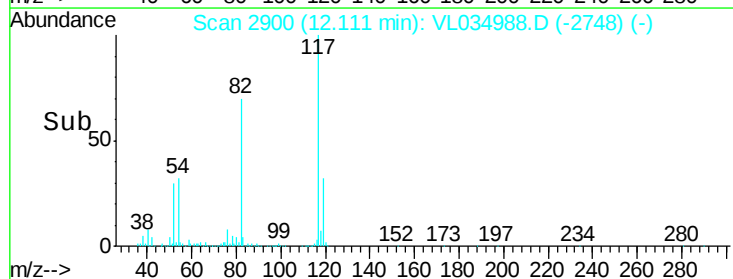
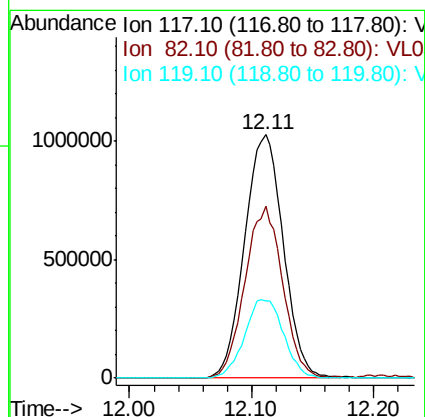
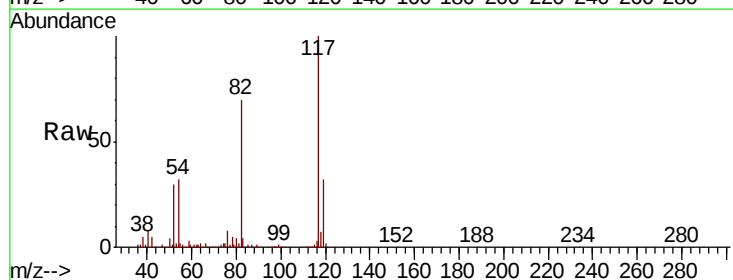
Tgt Ion: 117 Resp: 2250515

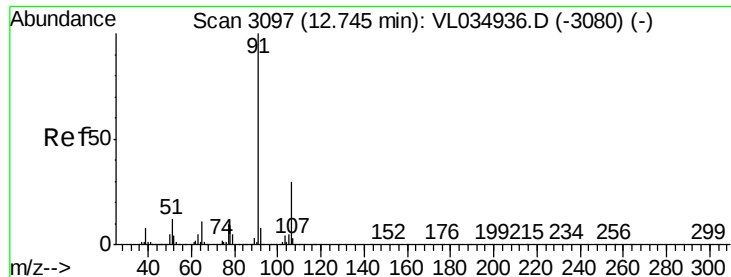
Ion Ratio Lower Upper

117 100

82 69.0 53.1 79.7

119 32.7 26.7 40.1





#58

Ethyl Benzene

Concen: 0.785 ppbv

RT: 12.74 min Scan# 3094

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

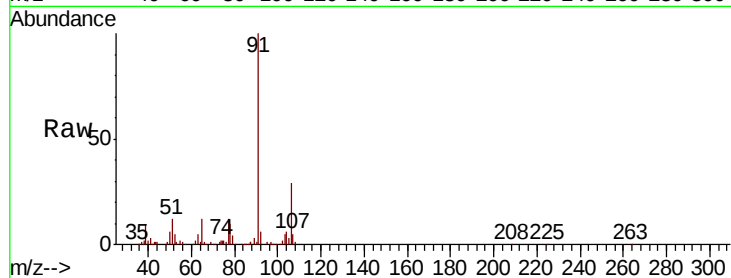
IA-4DUP

Tot Ion: 91 Resp: 218525

Ion Ratio Lower Upper

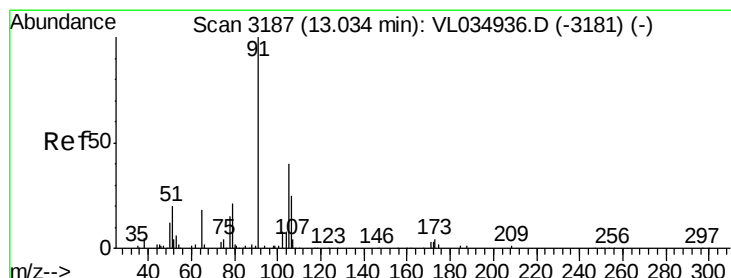
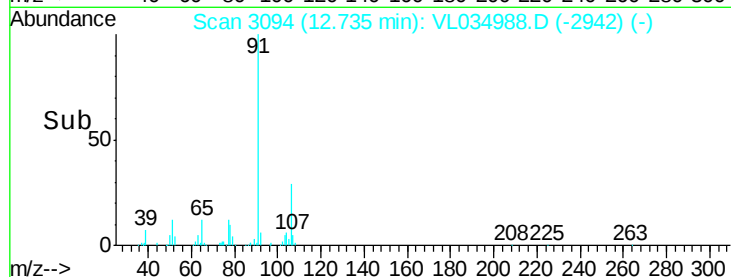
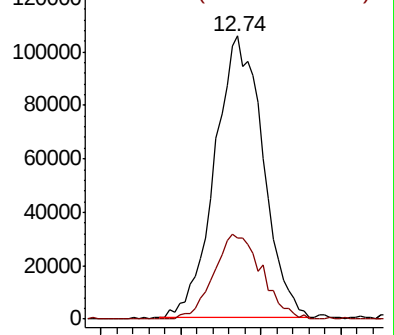
91 100

106 28.8 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.476 ppbv

RT: 13.02 min Scan# 3184

Delta R.T. -0.01 min

Lab File: VL034988.D

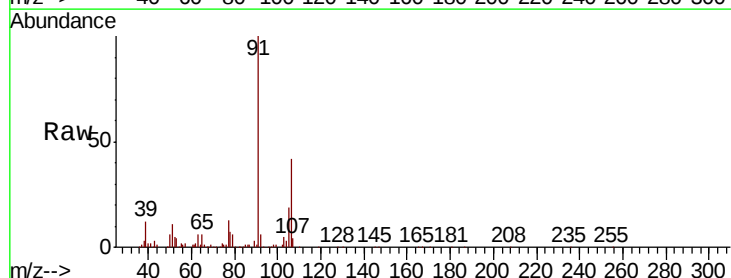
Acq: 12 May 2020 15:45

Tgt Ion: 91 Resp: 116632

Ion Ratio Lower Upper

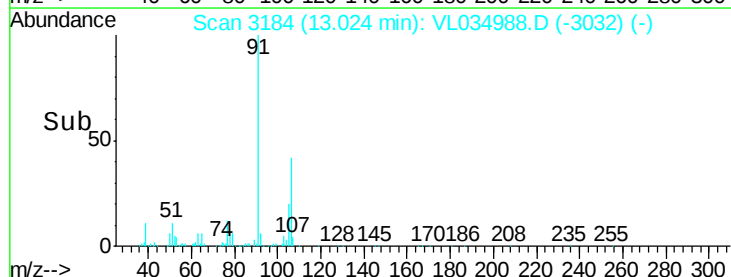
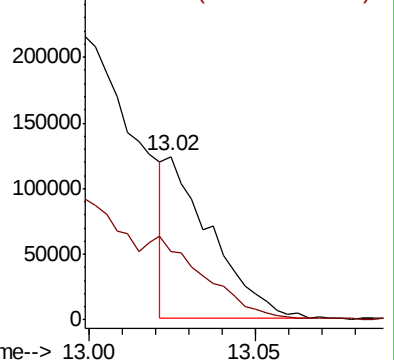
91 100

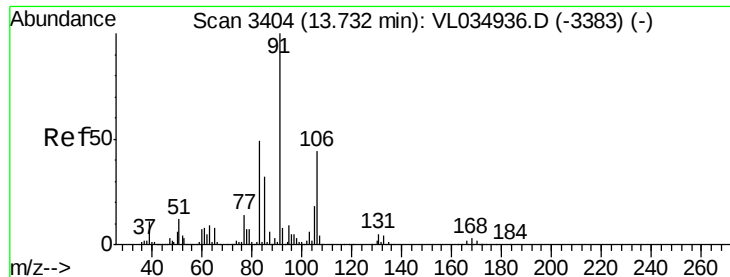
106 0.0 66.0 99.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

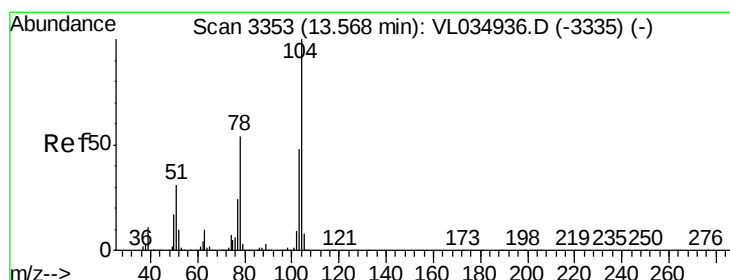
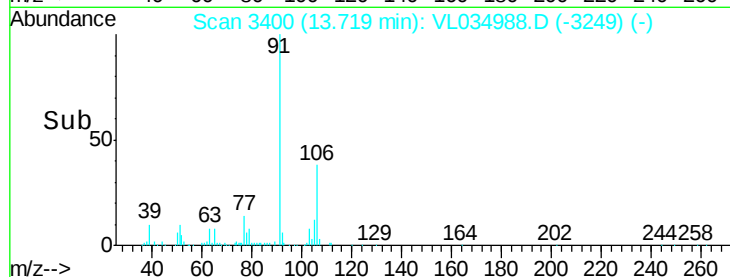
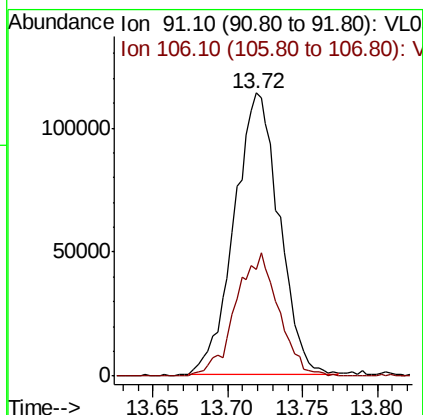
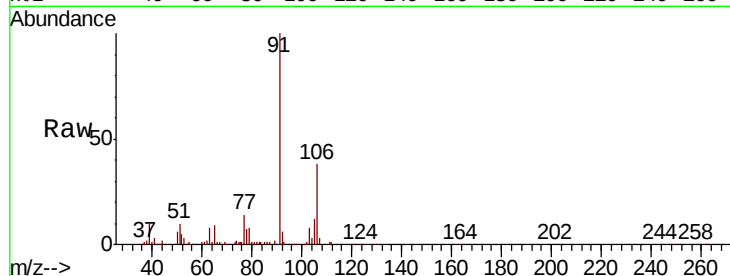




#60
o-Xylene
Concen: 0.976 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

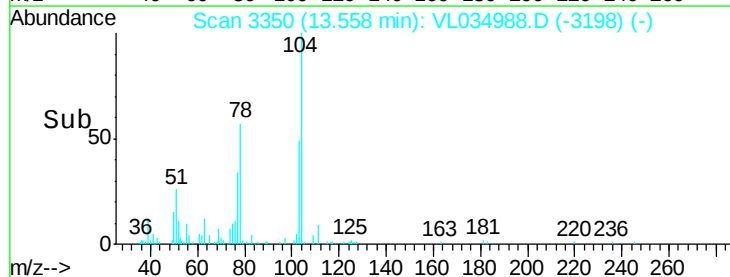
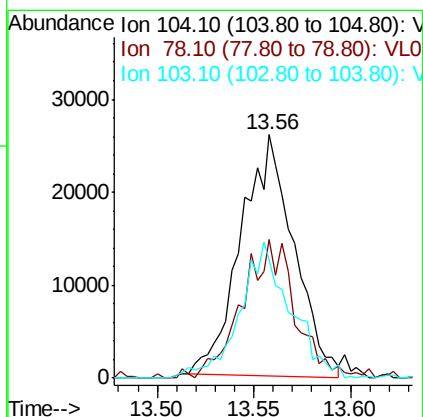
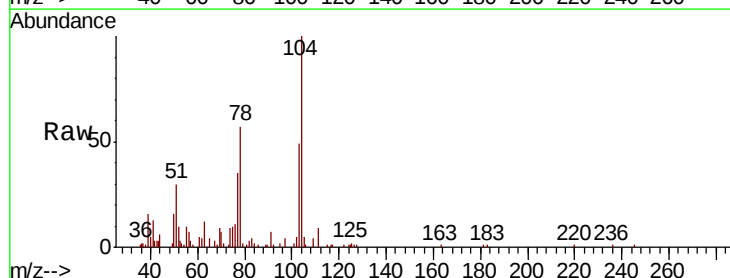
Instrument :
MSVOA_L
ClientSampleId :
IA-4DUP

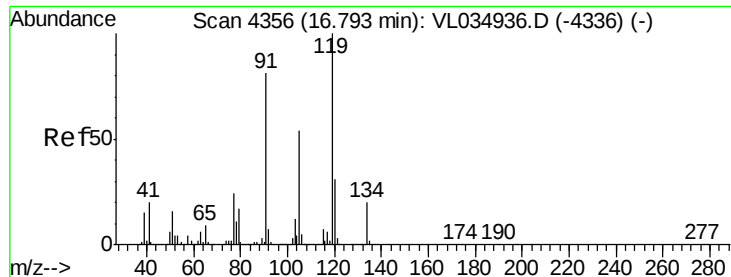
Tot Ion: 91 Resp: 235927
Ion Ratio Lower Upper
91 100
106 42.4 21.9 65.5



#61
Styrene
Concen: 0.325 ppbv
RT: 13.56 min Scan# 3350
Delta R.T. -0.01 min
Lab File: VL034988.D
Acq: 12 May 2020 15:45

Tgt Ion: 104 Resp: 49732
Ion Ratio Lower Upper
104 100
78 58.6 43.7 65.5
103 54.1 38.8 58.2

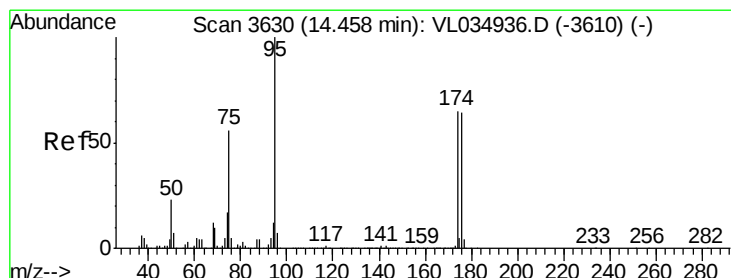
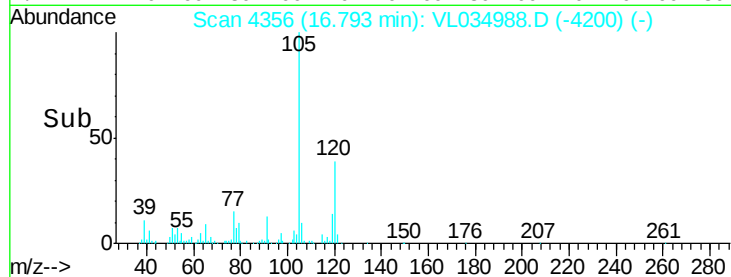
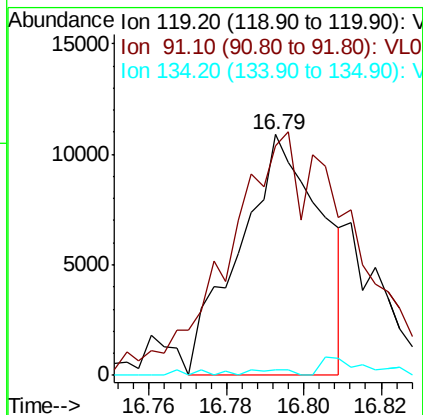
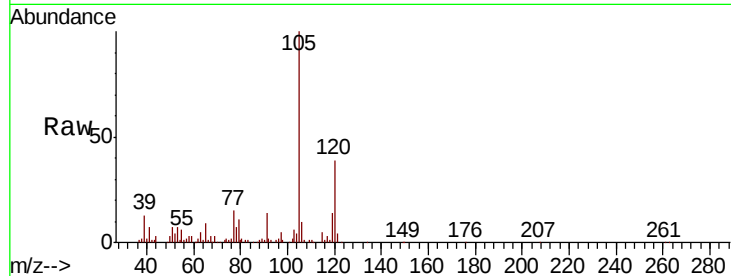




#65
 tert-Butylbenzene
 Concen: 0.051 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL034988.D
 Acq: 12 May 2020 15:45

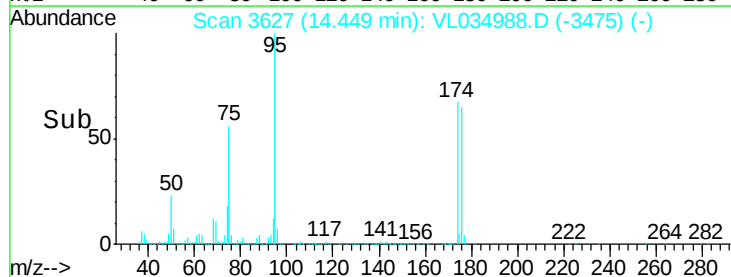
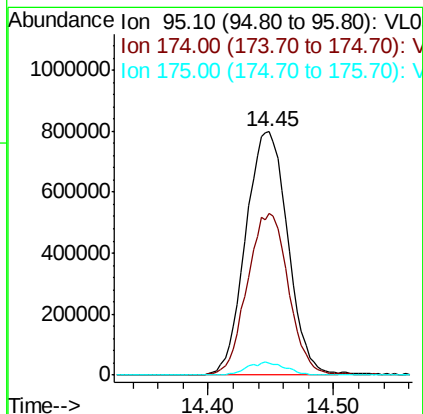
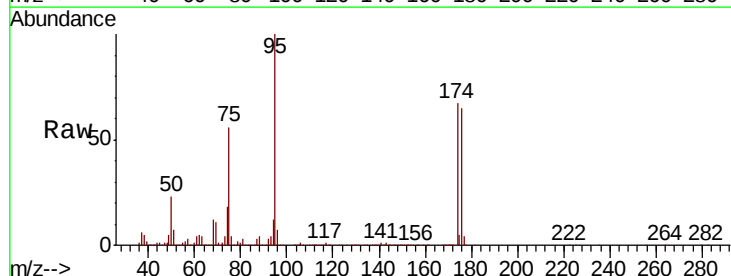
Instrument :
 MSVOA_L
 ClientSampled :
 IA-4DUP

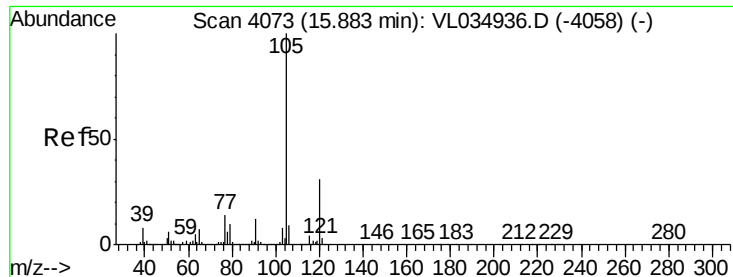
Tot Ion: 119 Resp: 15977
 Ion Ratio Lower Upper
 119 100
 91 161.3 67.5 101.3#
 134 0.0 16.1 24.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.183 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. -0.01 min
 Lab File: VL034988.D
 Acq: 12 May 2020 15:45

Tgt Ion: 95 Resp: 1854977
 Ion Ratio Lower Upper
 95 100
 174 65.4 51.5 77.3
 175 4.9 3.8 5.8





#72

4-Ethyltoluene

Concen: 0.132 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

IA-4DUP

Tot Ion:105 Resp: 35554

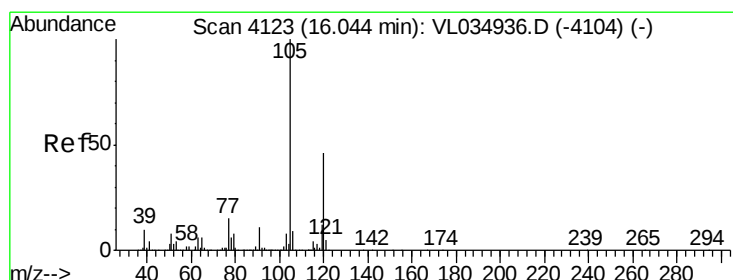
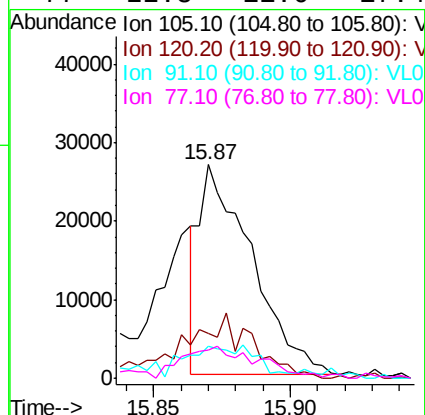
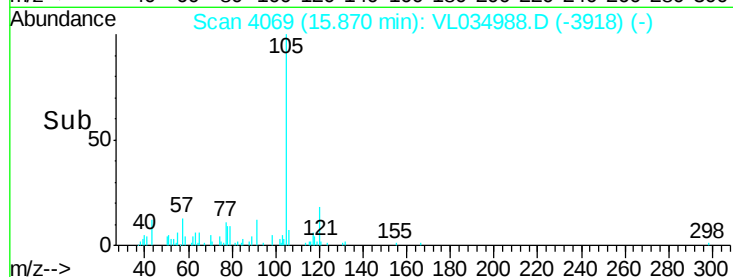
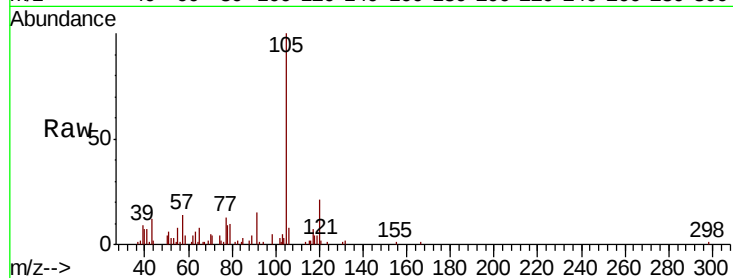
Ion Ratio Lower Upper

105 100

120 41.8 23.8 35.8#

91 23.6 10.6 15.8#

77 22.8 11.6 17.4#



#73

1,3,5-Trimethylbenzene

Concen: 0.105 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.02 min

Lab File: VL034988.D

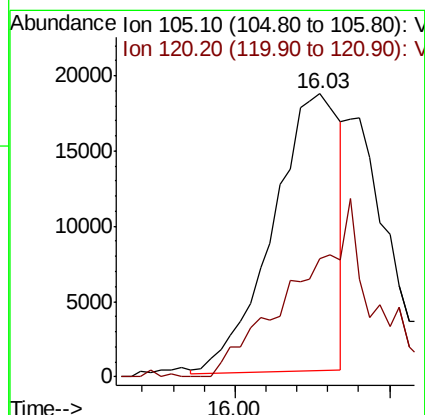
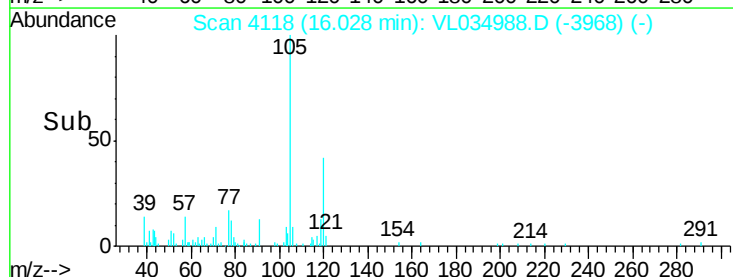
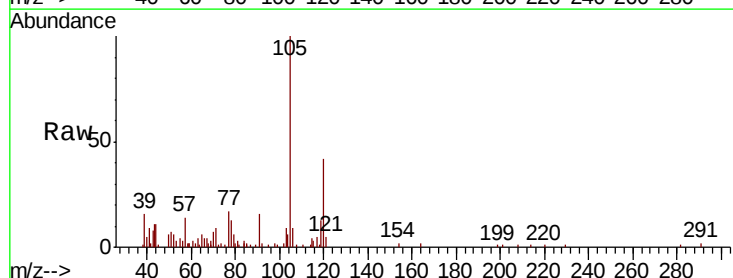
Acq: 12 May 2020 15:45

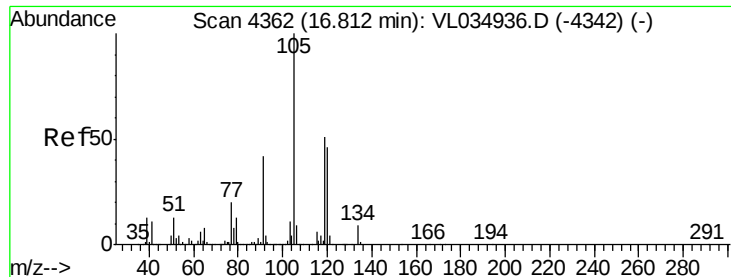
Tgt Ion:105 Resp: 27562

Ion Ratio Lower Upper

105 100

120 42.5 36.4 54.6





#74

1,2,4-Trimethylbenzene

Concen: 0.633 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.01 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

Instrument :

MSVOA_L

ClientSampleId :

IA-4DUP

Tot Ion:105 Resp: 181328

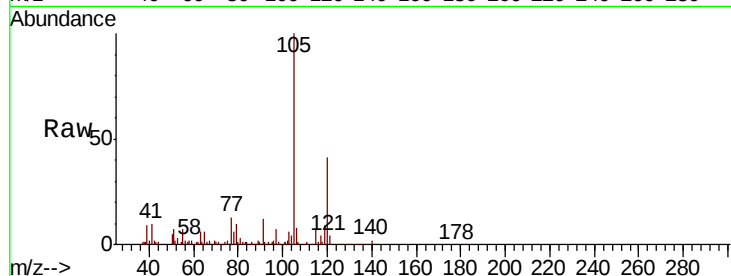
Ion Ratio Lower Upper

105 100

120 40.9 36.8 55.2

91 11.2 35.4 53.0#

77 12.7 16.2 24.2#

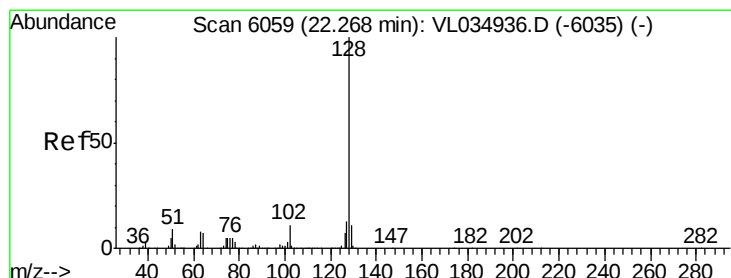
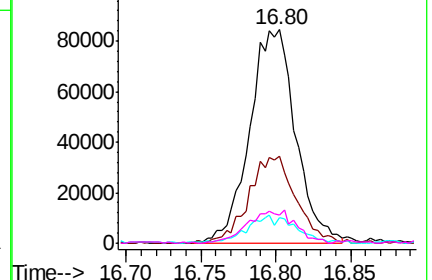
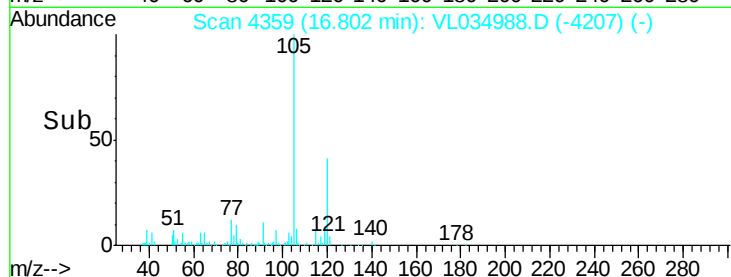


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.040 ppbv

RT: 22.25 min Scan# 6054

Delta R.T. -0.02 min

Lab File: VL034988.D

Acq: 12 May 2020 15:45

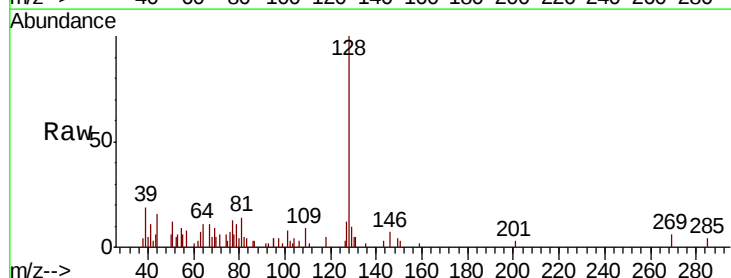
Tgt Ion:128 Resp: 8827

Ion Ratio Lower Upper

128 100

127 6.5 10.5 15.7#

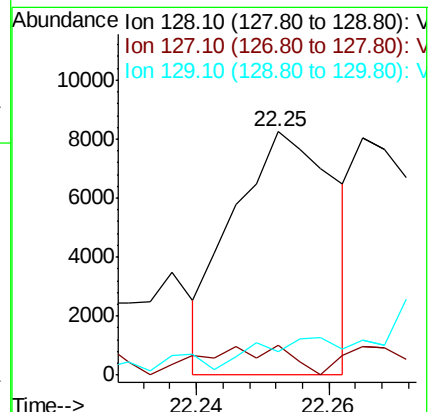
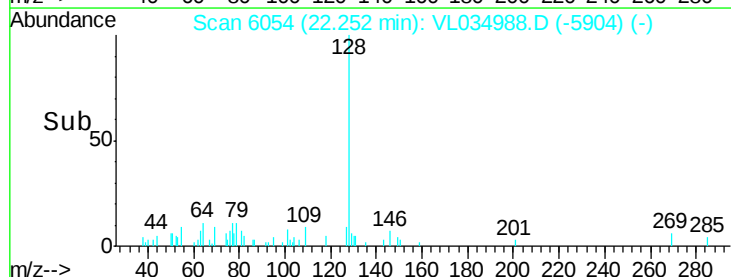
129 1.7 9.0 13.4#

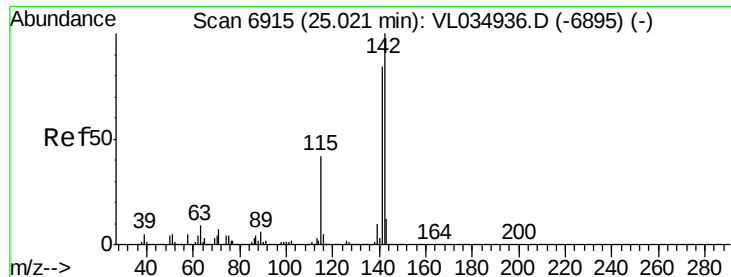


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80
 Naphthalene, 2-methyl-
 Concen: 0.141 ppbv
 RT: 25.01 min Scan# 6913
 Delta R.T. -0.01 min
 Lab File: VL034988.D
 Acq: 12 May 2020 15:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DUP

Tot Ion	Ratio	Lower	Upper
142	100		
141	75.1	68.6	102.8
115	72.9	33.9	50.9

