

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036102.D
 Acq On : 8 Dec 2020 19:49
 Operator : SY/AP
 Sample : L4949-03DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Quant Time: Dec 09 07:20:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1139941	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2647283	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2421775	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2114093	10.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	30245	0.228	ppbv 92
3) Chlorodifluoromethane	2.99	51	47759	0.367	ppbv # 91
4) Chloromethane	3.14	50	28161	0.441	ppbv 93
9) Propene	3.20	41	556920	8.548	ppbv 92
10) Heptane	8.14	43	2544204	15.289	ppbv 99
11) Trichlorofluoromethane	3.96	101	8655	0.055	ppbv 90
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7479	0.071	ppbv # 78
13) Ethanol	3.66	45	4396725	489.517	ppbv 83
15) Acetone	3.85	43	23065492	168.357	ppbv # 76
16) 1,3-Butadiene	3.35	39	1253696	18.169	ppbv # 11
17) tert-Butyl alcohol	4.31	59	5494	0.041	ppbv # 71
19) Isopropyl Alcohol	4.02	45	1557775	18.603	ppbv # 100
20) Methylene Chloride	4.35	84	47669	0.849	ppbv 95
21) Allyl Chloride	4.37	41	347603	3.816	ppbv # 50
23) Vinyl Acetate	5.11	43	3269911	17.927	ppbv # 39
25) Ethyl Acetate	5.69	43	5920076	21.630	ppbv 97
26) Hexane	5.70	57	2037493	16.541	ppbv 85
28) Methyl tert-Butyl Ether	5.04	73	9706	0.055	ppbv # 51
30) Cyclohexane	7.14	84	829127	9.163	ppbv 96
31) cis-1,2-Dichloroethene	5.68	61	554790	4.955	ppbv # 27
34) 2-Butanone	5.26	43	6666077	37.962	ppbv 99
35) Carbon Tetrachloride	7.04	117	7299	0.047	ppbv # 74
36) Benzene	6.91	78	1273469	5.676	ppbv 94
37) 1,2-Dichloroethane	6.32	62	4229	0.033	ppbv 97
39) 1,2-Dichloropropane	7.20	63	755116	8.523	ppbv # 23
41) Tetrahydrofuran	6.06	42	1832683	17.568	ppbv 97
42) Bromodichloromethane	7.82	83	51595	0.298	ppbv # 26
43) Methyl Methacrylate	8.03	69	16380	0.170	ppbv # 1
44) 2,2,4-Trimethylpentane	7.88	57	6483406	15.957	ppbv # 81
50) 4-Methyl-2-Pentanone	8.77	43	870259	3.323	ppbv 100
51) 2-Hexanone	10.13	43	692610	3.383	ppbv # 29
53) Toluene	9.83	91	19097564	75.807	ppbv # 79
58) Ethyl Benzene	12.73	91	6341181	19.106	ppbv 95
59) m/p-Xylene	13.00	91	15787317	56.477	ppbv 87
60) o-Xylene	13.72	91	7161611	27.192	ppbv 98
61) Styrene	13.55	104	136692	0.808	ppbv 97
62) Isopropylbenzene	14.69	105	750325	1.922	ppbv 97
64) n-propylbenzene	15.58	120	685830	7.302	ppbv 87
65) tert-Butylbenzene	16.79	119	1102117	3.449	ppbv # 67
66) Benzyl Chloride	17.23	91	114343	1.437	ppbv # 67
67) sec-Butylbenzene	17.32	105	290129	0.649	ppbv 99

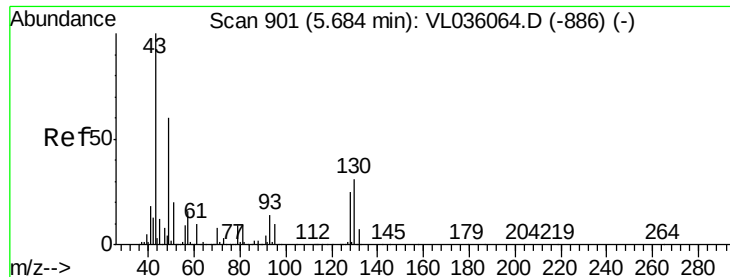
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036102.D
 Acq On : 8 Dec 2020 19:49
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 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.56	119	394903	1.110	ppbv	98
70) n-Butylbenzene	18.57	91	429943	1.223	ppbv #	33
71) 2-Chlorotoluene	15.58	91	3506919	11.884	ppbv #	46
72) 4-Ethyltoluene	15.87	105	3726413	13.062	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	3416296	12.538	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	9173249	33.539	ppbv #	72
79) Naphthalene	22.23	128	477720	3.436	ppbv	96
80) Naphthalene,2-methyl-	25.31	142	34385	1.106	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

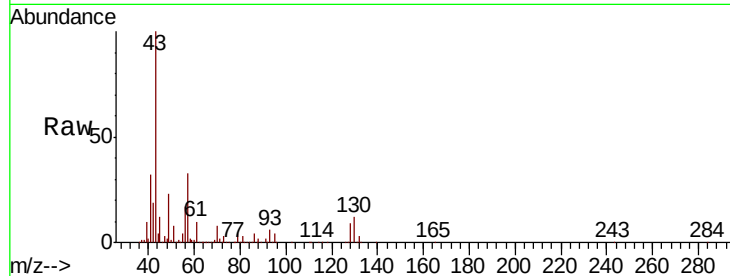
Tot Ion: 49 Resp: 1139941

Ion Ratio Lower Upper

49 100

128 38.9 21.1 63.1

130 50.1 27.1 81.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.69

600000

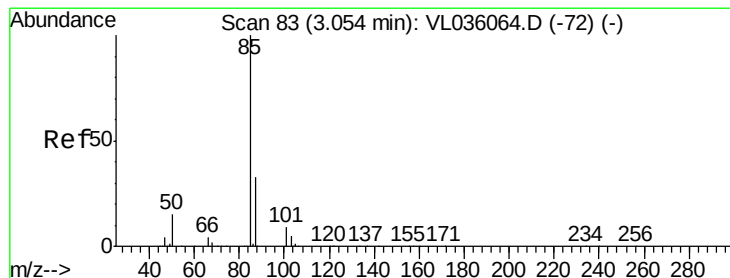
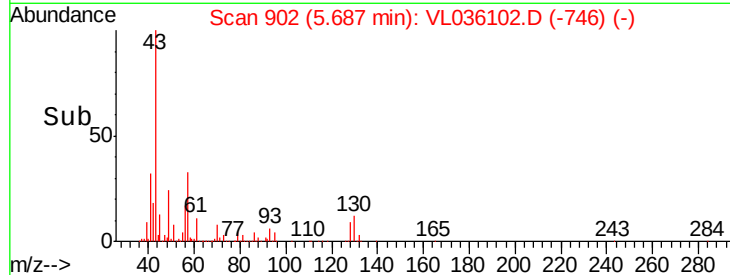
400000

200000

0

5.60 5.65 5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.228 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL036102.D

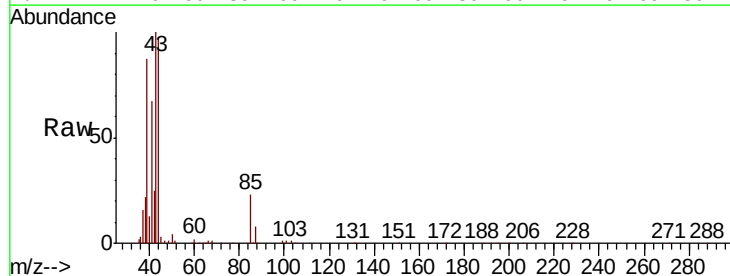
Acq: 8 Dec 2020 19:49

Tgt Ion: 85 Resp: 30245

Ion Ratio Lower Upper

85 100

87 37.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

25000

20000

15000

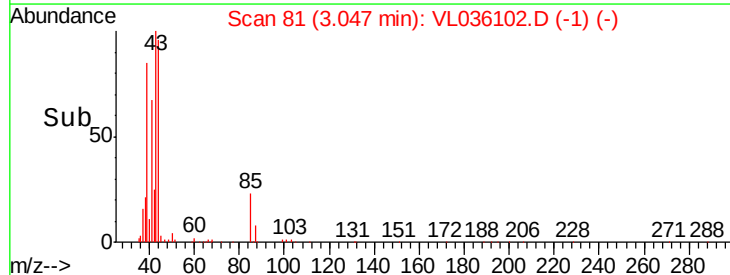
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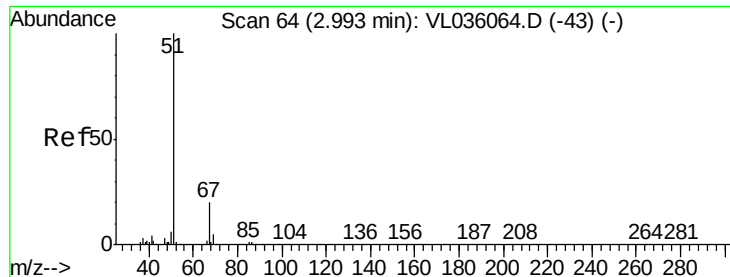
5000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.367 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

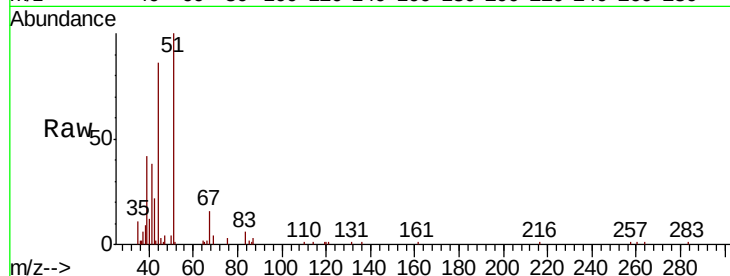
IA-1DUP

Tot Ion: 51 Resp: 47759

Ion Ratio Lower Upper

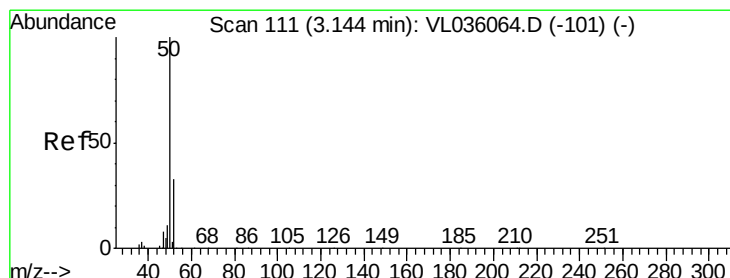
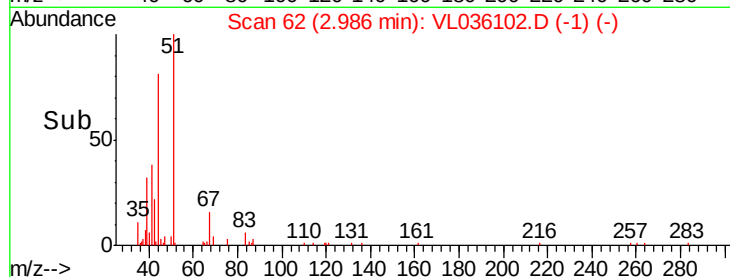
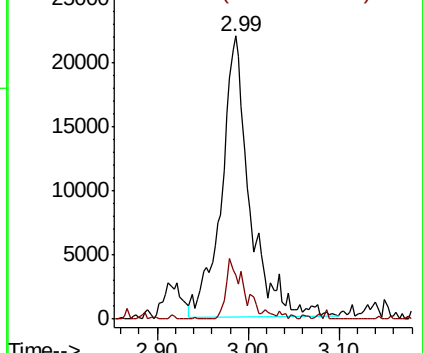
51 100

67 14.0 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.441 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL036102.D

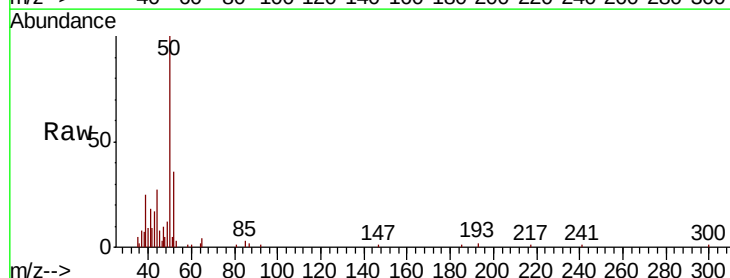
Acq: 8 Dec 2020 19:49

Tgt Ion: 50 Resp: 28161

Ion Ratio Lower Upper

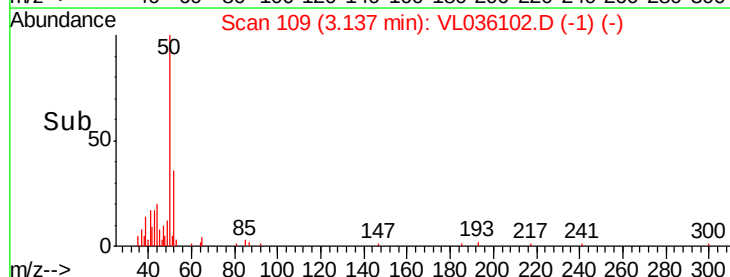
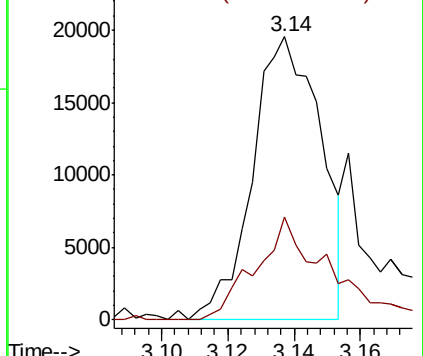
50 100

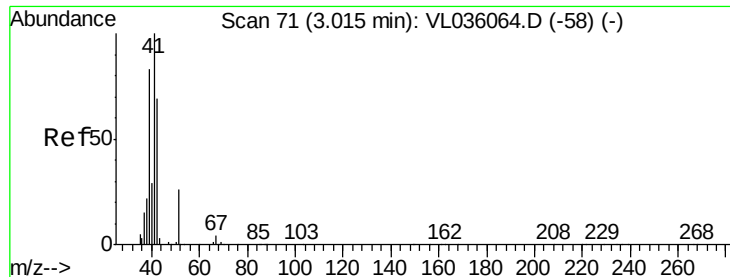
52 36.3 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 8.548 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.19 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

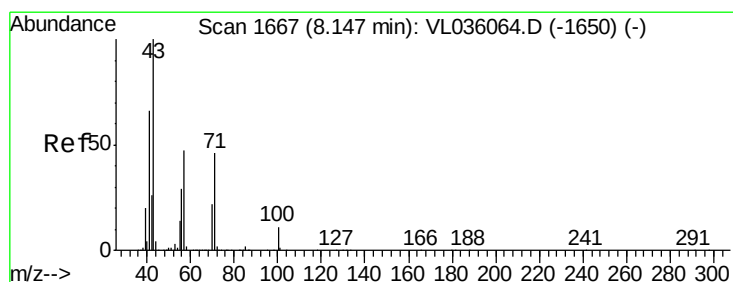
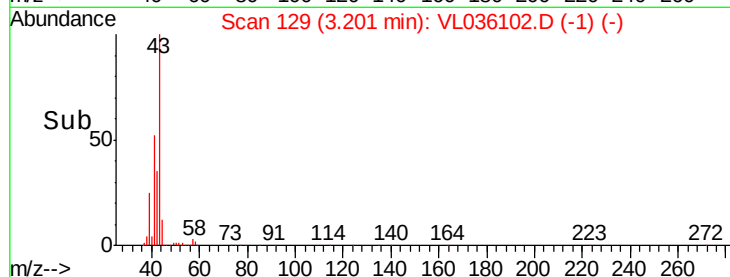
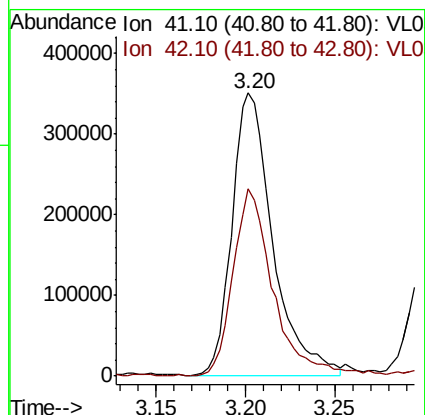
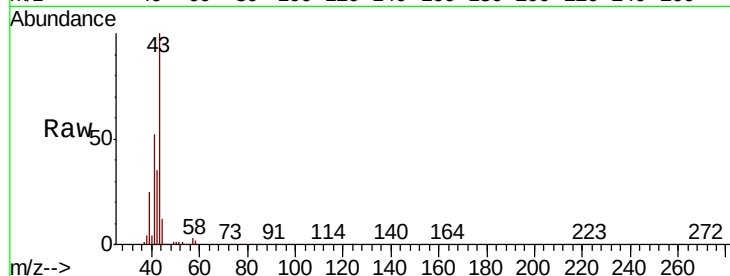
IA-1DUP

Tot Ion: 41 Resp: 556920

Ion Ratio Lower Upper

41 100

42 64.6 57.0 85.6



#10

Heptane

Concen: 15.289 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VL036102.D

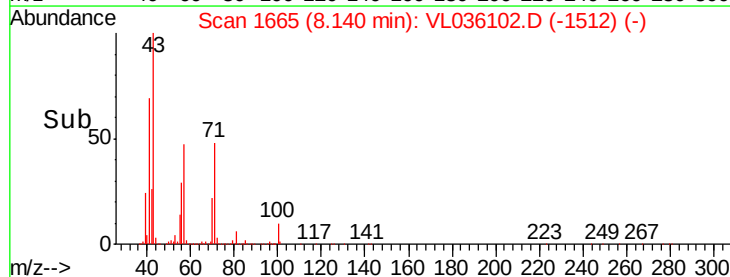
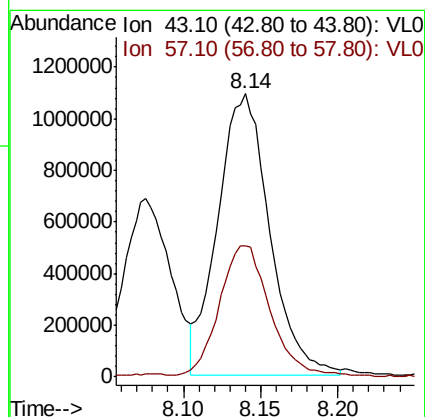
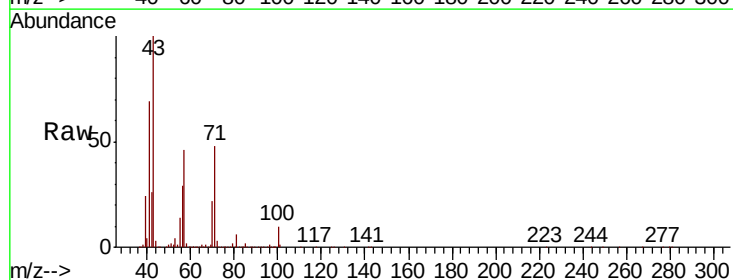
Acq: 8 Dec 2020 19:49

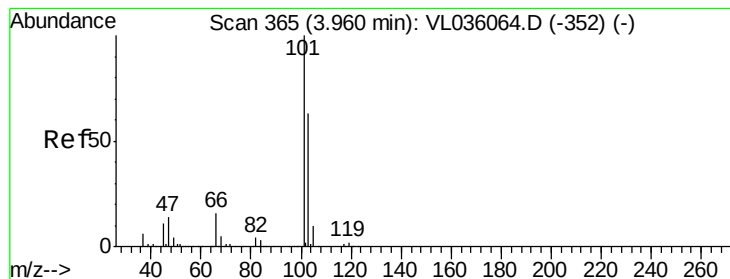
Tgt Ion: 43 Resp: 2544204

Ion Ratio Lower Upper

43 100

57 46.5 37.9 56.9





#11

Trichlorofluoromethane

Concen: 0.055 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

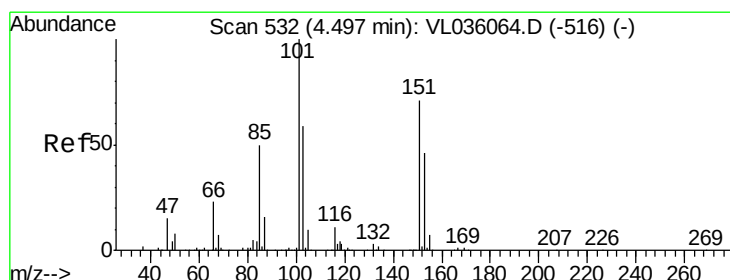
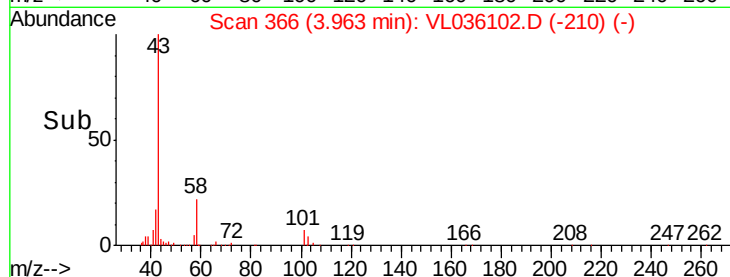
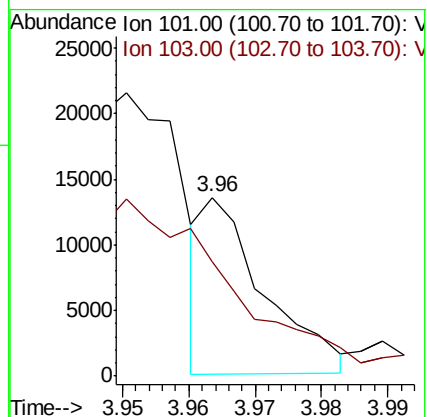
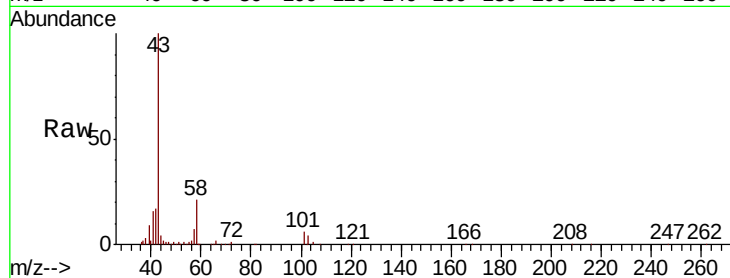
IA-1DUP

Tot Ion:101 Resp: 8655

Ion Ratio Lower Upper

101 100

103 54.9 50.3 75.5



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.071 ppbv

RT: 4.49 min Scan# 530

Delta R.T. -0.01 min

Lab File: VL036102.D

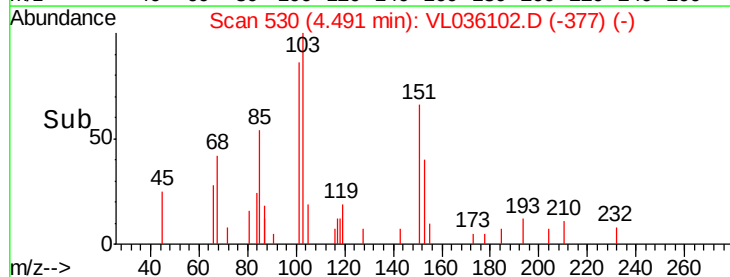
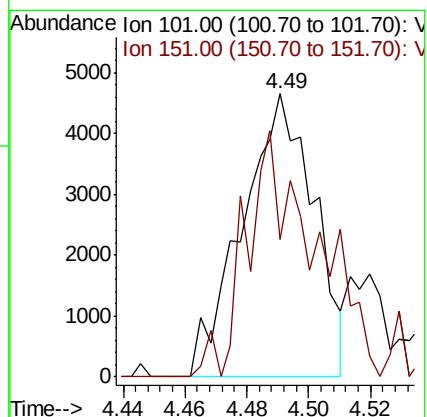
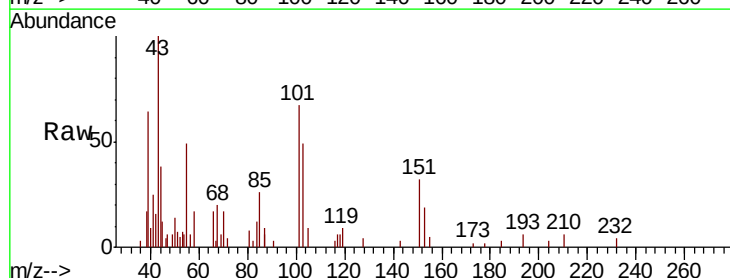
Acq: 8 Dec 2020 19:49

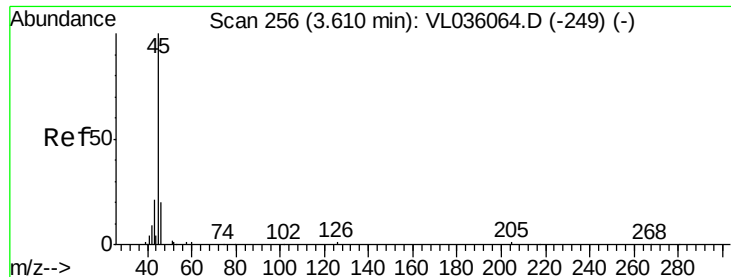
Tgt Ion:101 Resp: 7479

Ion Ratio Lower Upper

101 100

151 93.0 59.3 88.9#

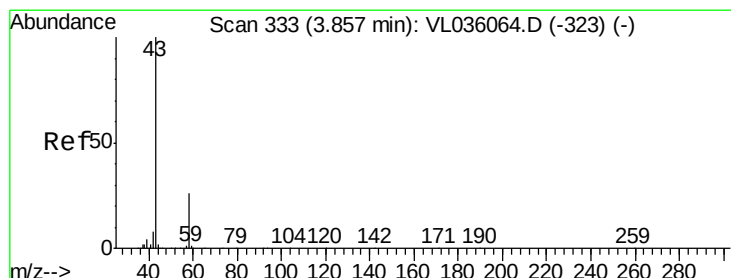
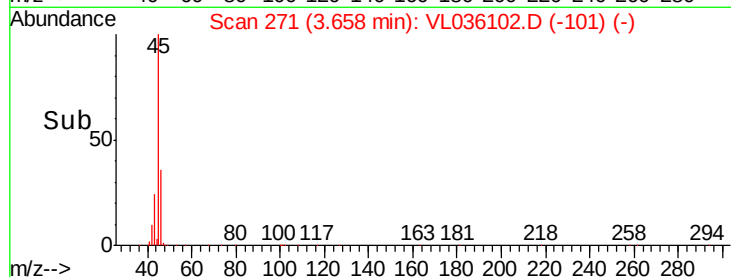
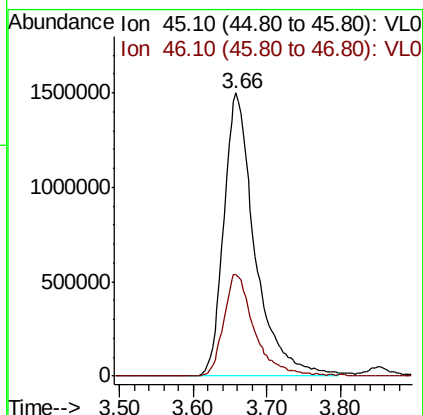
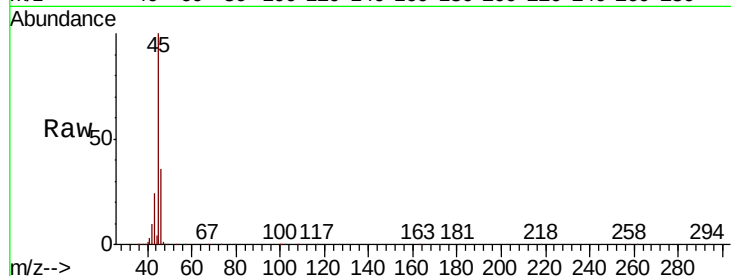




#13
Ethanol
Concen: 489.517 ppbv
RT: 3.66 min Scan# 271
Delta R.T. 0.05 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

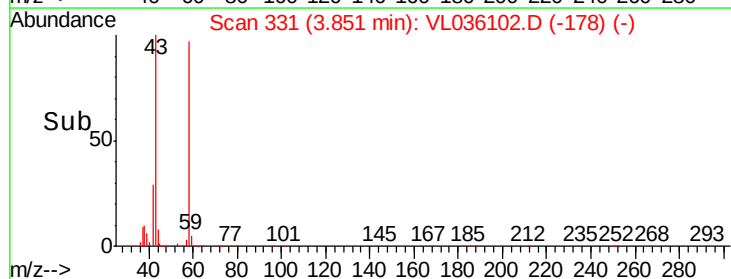
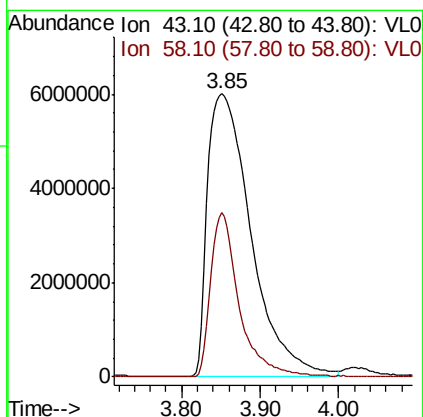
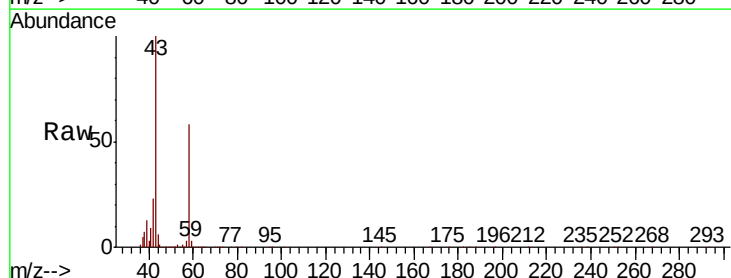
Instrument :
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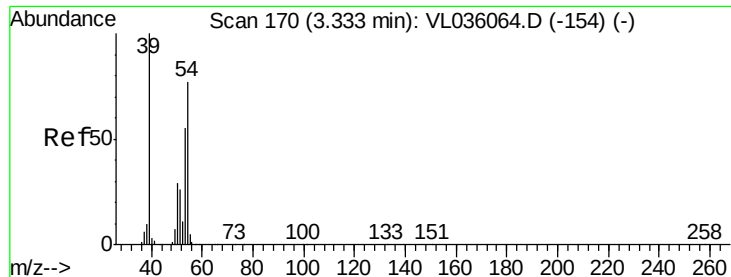
Tot Ion: 45 Resp: 4396725
Ion Ratio Lower Upper
45 100
46 36.2 19.0 75.8



#15
Acetone
Concen: 168.357 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 43 Resp: 23065492
Ion Ratio Lower Upper
43 100
58 38.2 20.9 31.3#

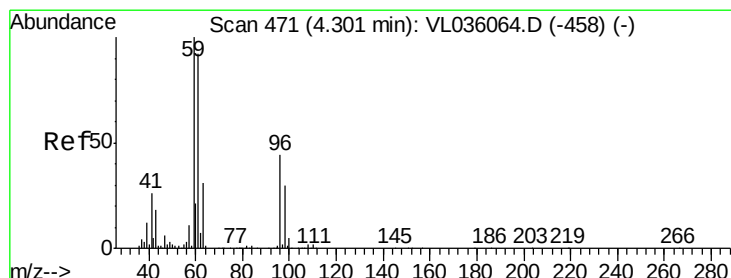
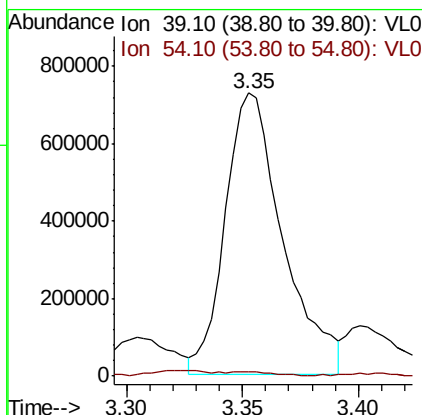
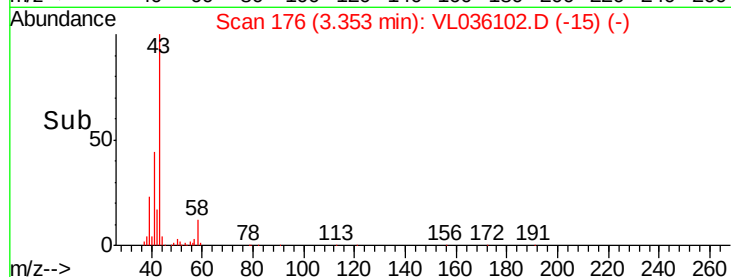
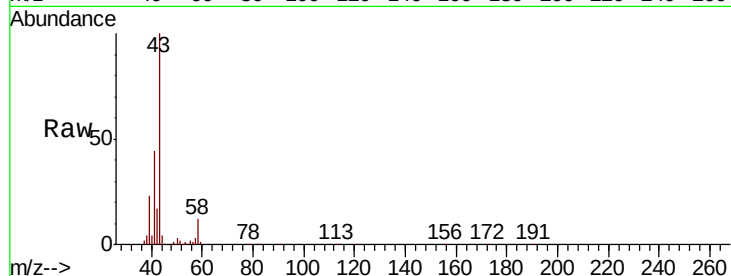




#16
1,3-Butadiene
Concen: 18.169 ppbv
RT: 3.35 min Scan# 176
Delta R.T. 0.02 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

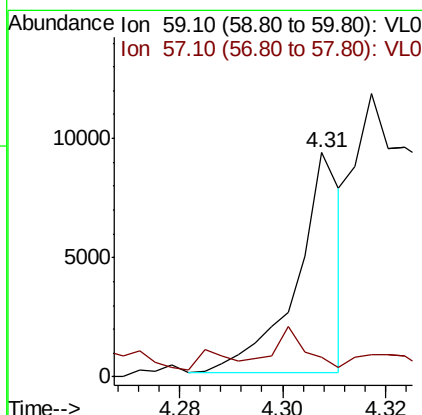
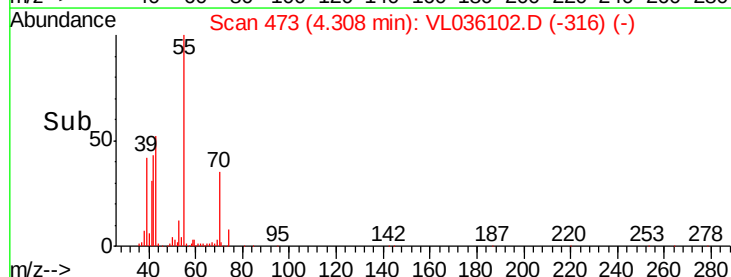
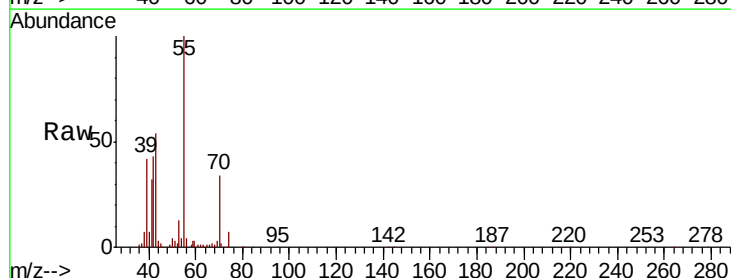
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

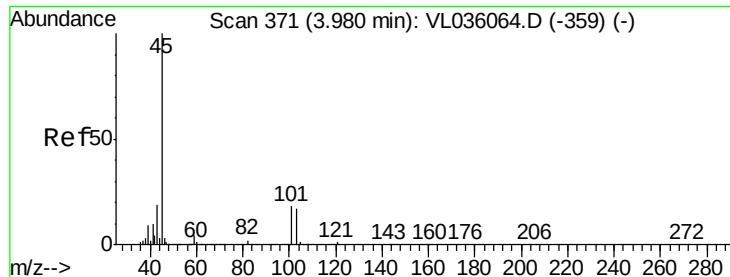
Tot Ion: 39 Resp: 1253696
Ion Ratio Lower Upper
39 100
54 0.0 62.1 93.1#



#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.01 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 59 Resp: 5494
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



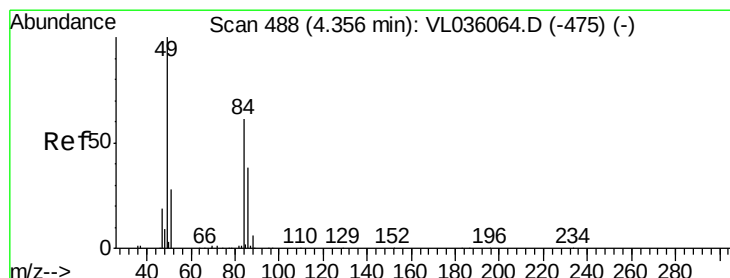
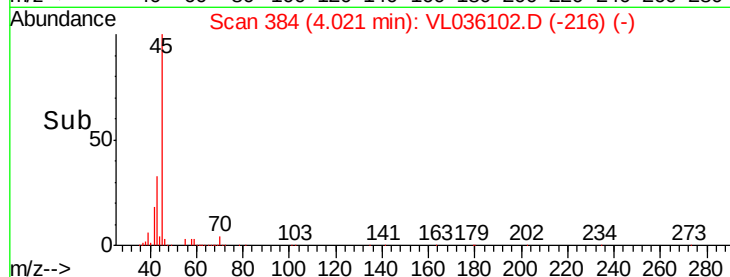
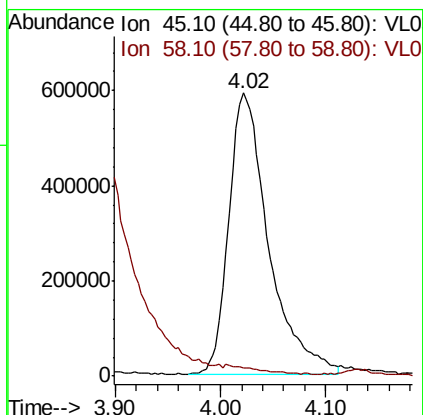
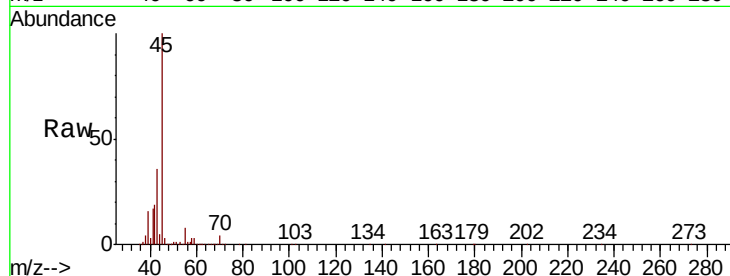


#19

Isopropyl Alcohol
 Concen: 18.603 ppbv
 RT: 4.02 min Scan# 384
 Delta R.T. 0.04 min
 Lab File: VL036102.D
 Acq: 8 Dec 2020 19:49

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

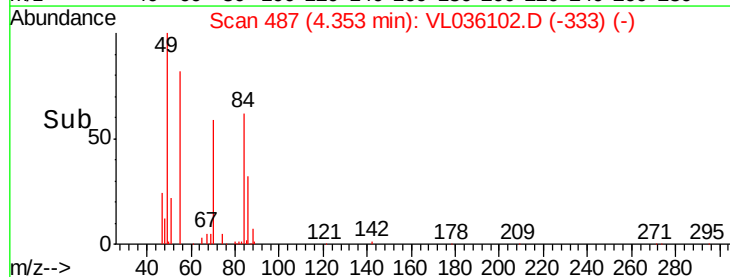
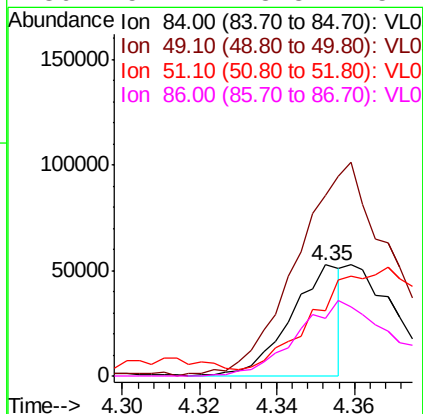
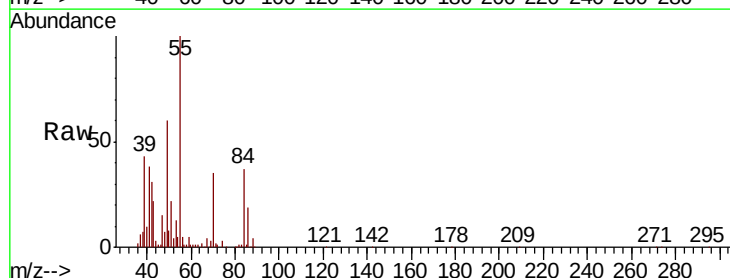
Tot Ion: 45 Resp: 1557775
 Ion Ratio Lower Upper
 45 100
 58 0.0 0.0 0.0

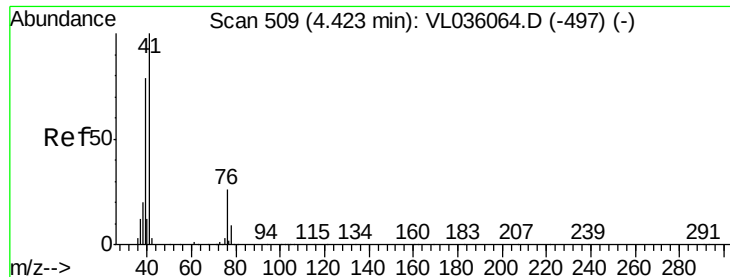


#20

Methylene Chloride
 Concen: 0.849 ppbv
 RT: 4.35 min Scan# 487
 Delta R.T. -0.00 min
 Lab File: VL036102.D
 Acq: 8 Dec 2020 19:49

Tgt Ion: 84 Resp: 47669
 Ion Ratio Lower Upper
 84 100
 49 161.1 133.0 199.4
 51 48.0 38.9 58.3
 86 52.1 48.8 73.2





#21

Allvl Chloride

Concen: 3.816 ppbv

RT: 4.37 min Scan# 492

Delta R.T. -0.05 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampled :

IA-1DUP

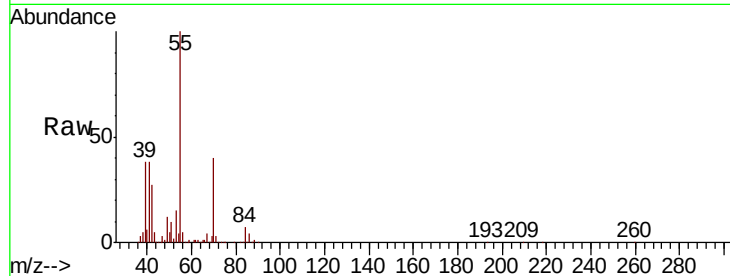
Tot Ion: 41 Resp: 347603

Ion Ratio Lower Upper

41 100

76 0.1 21.0 31.4#

39 126.8 66.0 99.0#

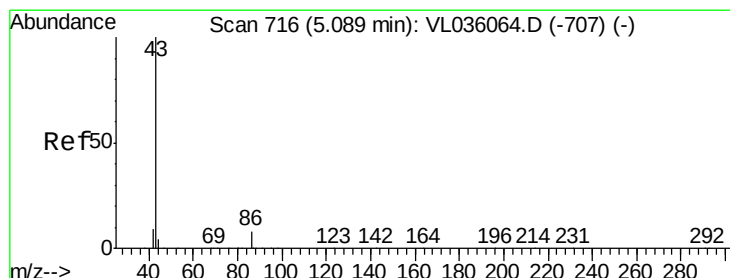
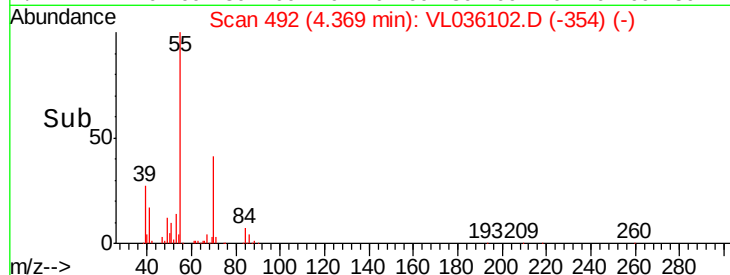
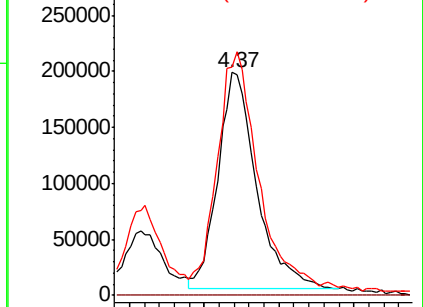


Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 17.927 ppbv

RT: 5.11 min Scan# 724

Delta R.T. 0.03 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Tgt Ion: 43 Resp: 3269911

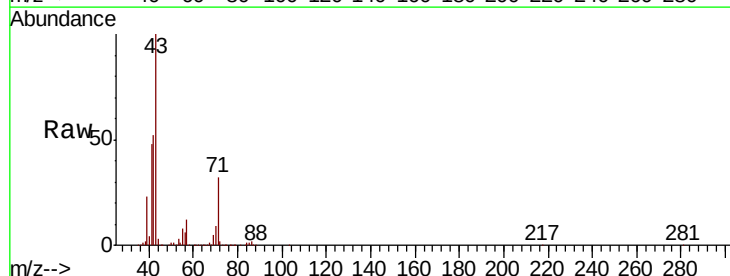
Ion Ratio Lower Upper

43 100

86 2.1 5.0 7.4#

42 52.3 7.8 11.6#

44 2.7 3.2 4.8#



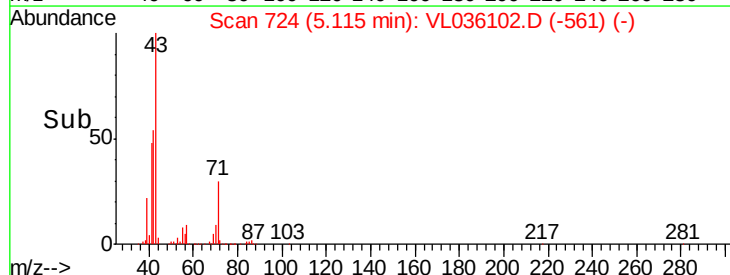
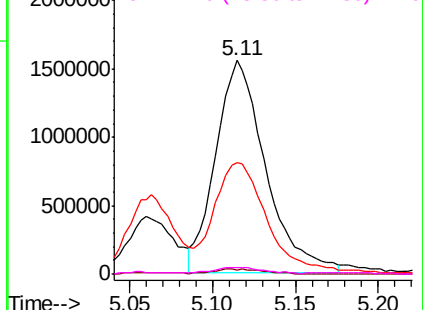
Abundance

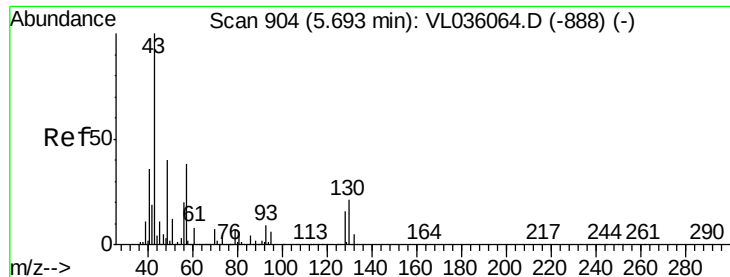
Ion 43.10 (42.80 to 43.80): VL0

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



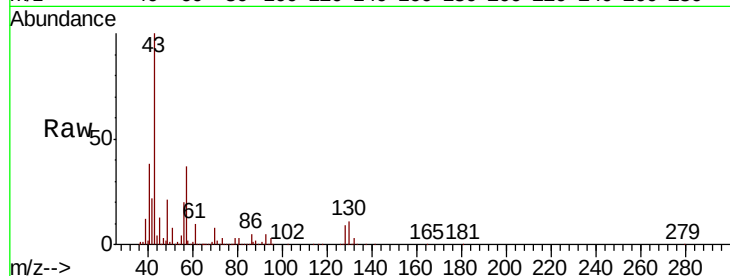


#25
Ethyl Acetate
Concen: 21.630 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion: 43 Resp: 5920076

Ion	Ratio	Lower	Upper
43	100		
45	12.2	8.2	12.4
61	9.6	7.4	11.2
70	7.7	5.4	8.0



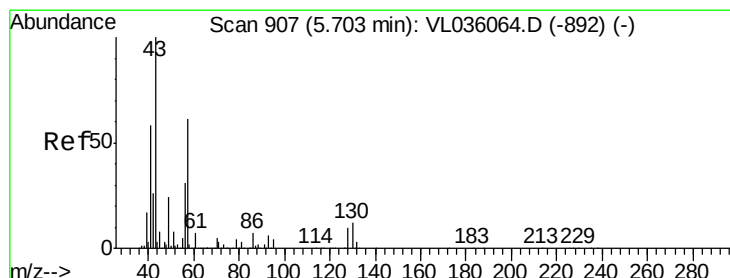
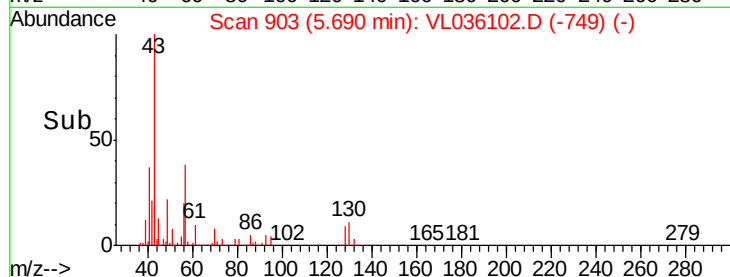
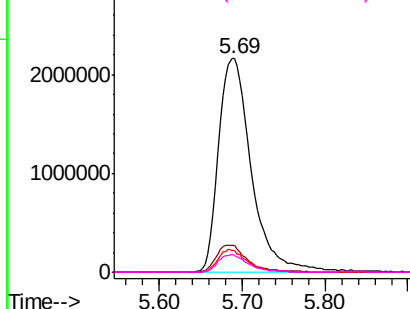
Abundance

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

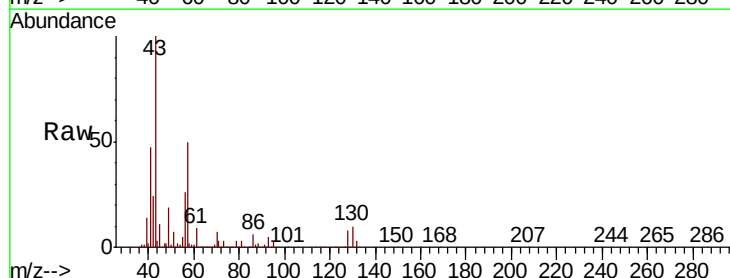
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 16.541 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 57 Resp: 2037493

Ion	Ratio	Lower	Upper
57	100		
41	102.4	82.9	124.3
43	292.0	199.9	299.9
56	54.2	43.1	64.7



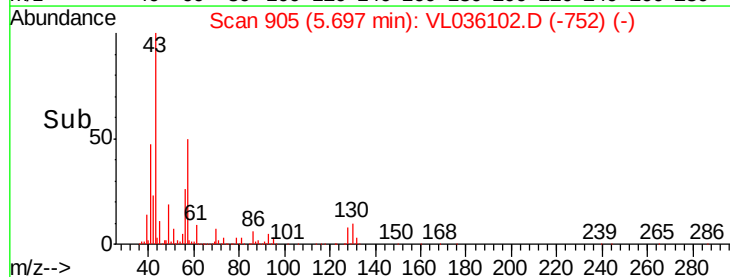
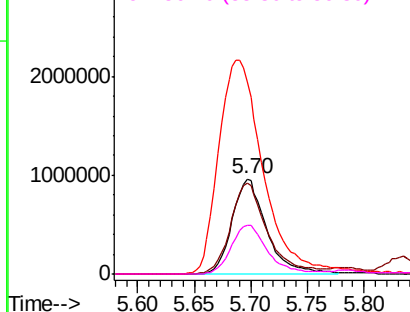
Abundance

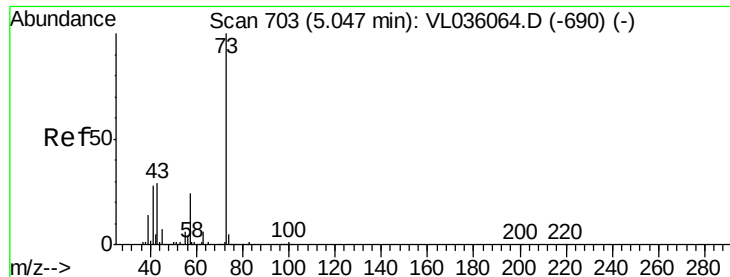
Ion 57.10 (56.80 to 57.80): VL0

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





#28

Methyl tert-Butyl Ether

Concen: 0.055 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

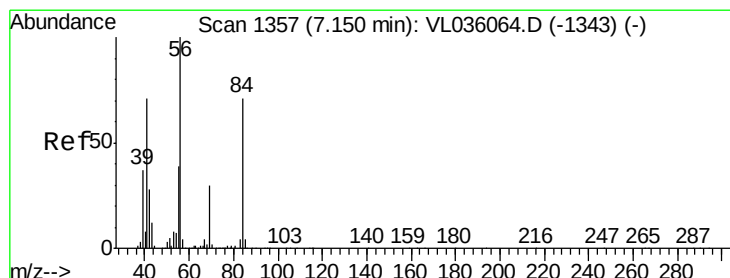
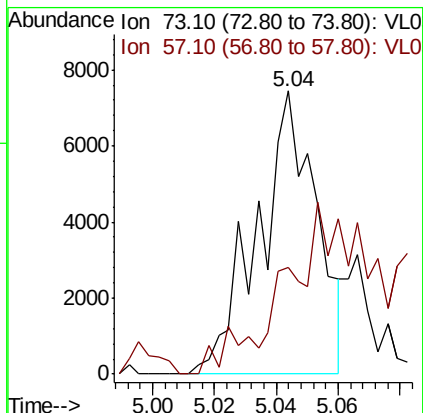
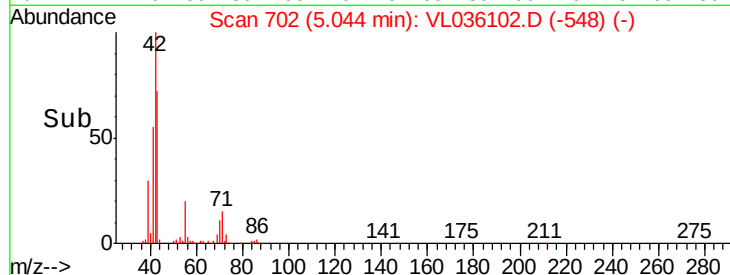
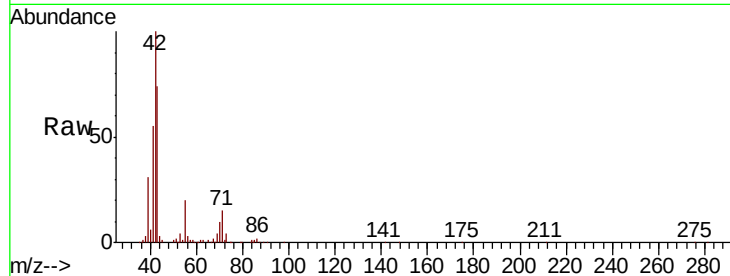
IA-1DUP

Tot Ion: 73 Resp: 9706

Ion Ratio Lower Upper

73 100

57 0.0 19.2 28.8#



#30

Cyclohexane

Concen: 9.163 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

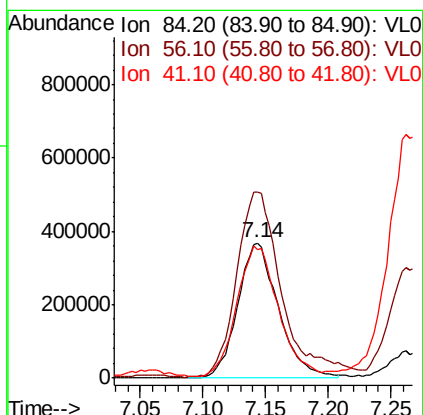
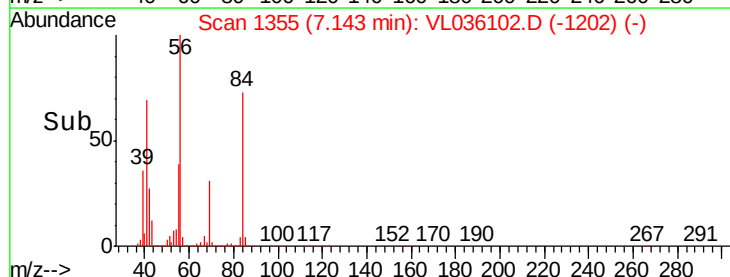
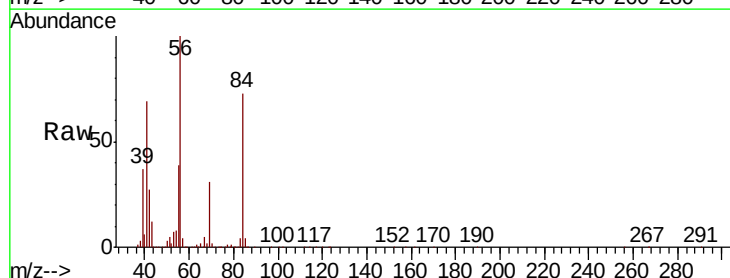
Tgt Ion: 84 Resp: 829127

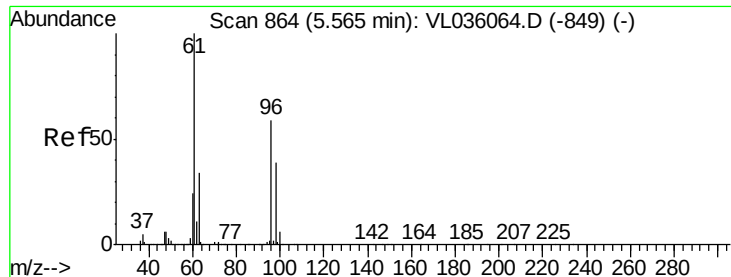
Ion Ratio Lower Upper

84 100

56 152.5 128.0 192.0

41 99.2 81.3 121.9



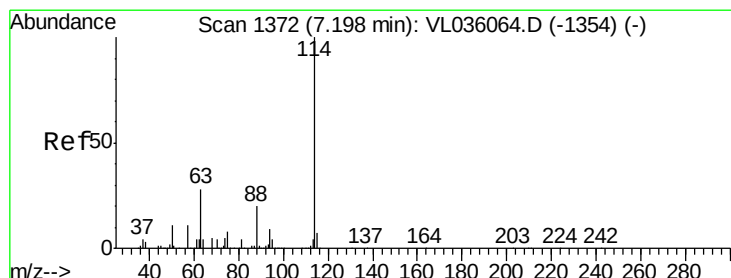
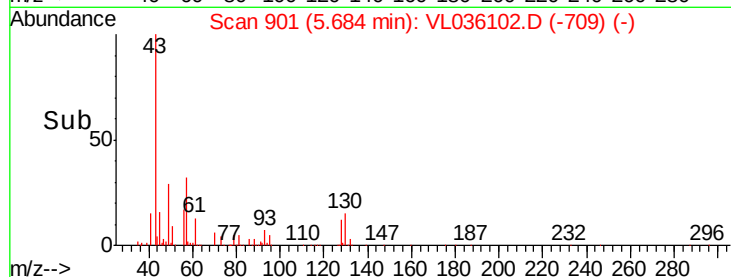
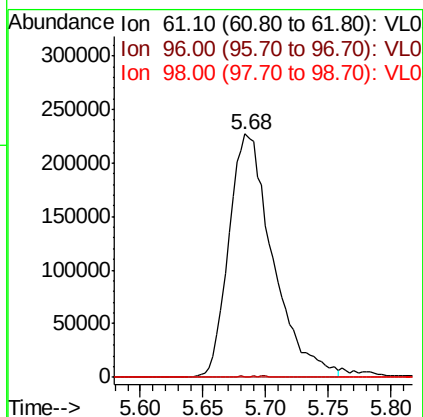
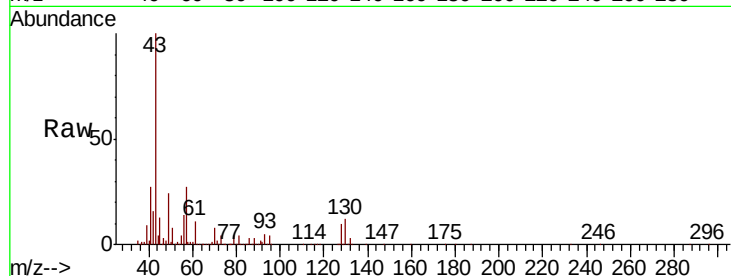


#31

cis-1,2-Dichloroethene
 Concen: 4.955 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. 0.12 min
 Lab File: VL036102.D
 Acq: 8 Dec 2020 19:49

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

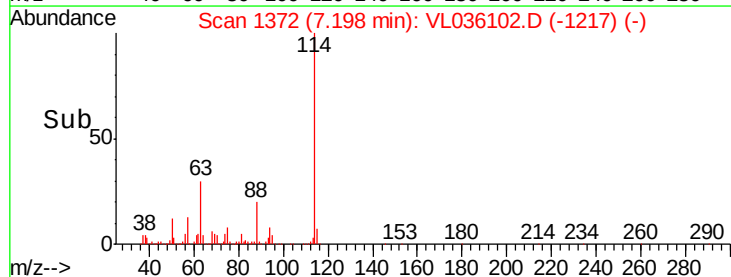
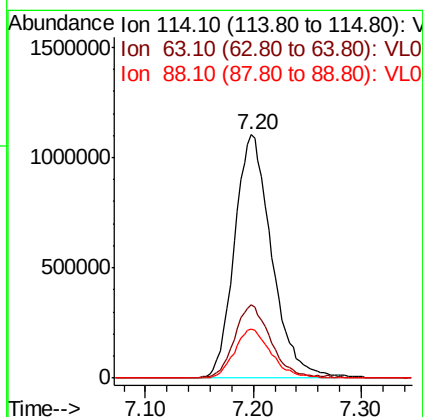
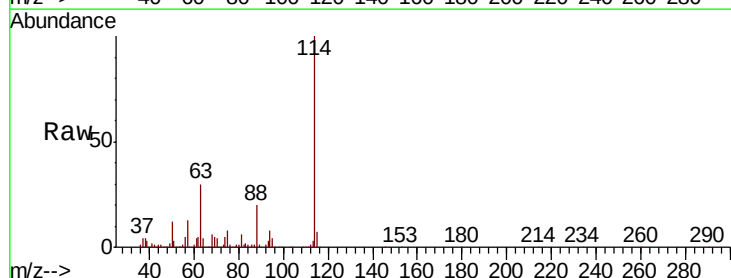
Tot Ion	Ratio	Lower	Upper
61	100		
96	0.3	47.3	70.9#
98	0.0	31.4	47.0#

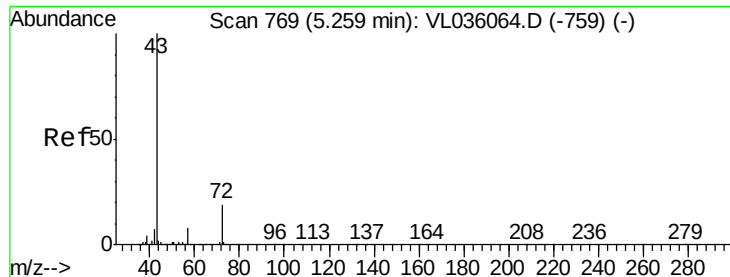


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.00 min
 Lab File: VL036102.D
 Acq: 8 Dec 2020 19:49

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.9	23.6	35.4
88	19.9	15.8	23.6

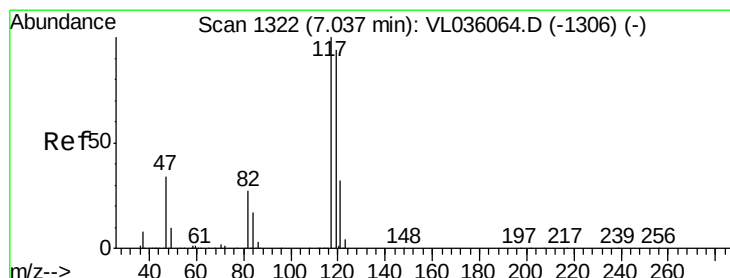
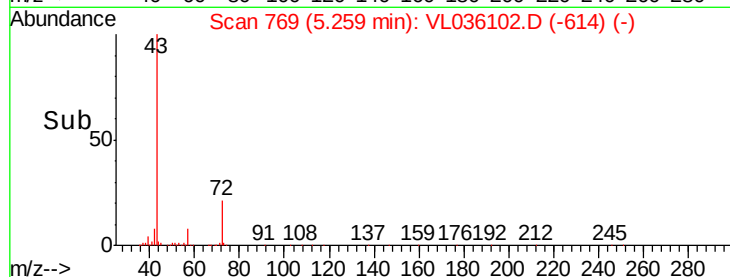
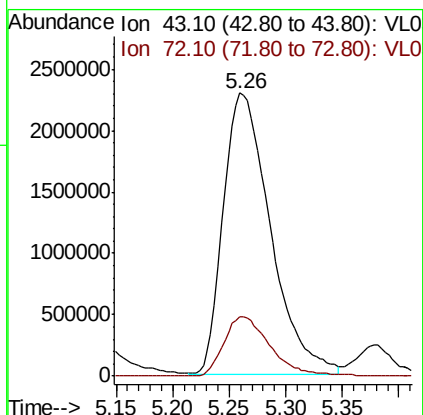
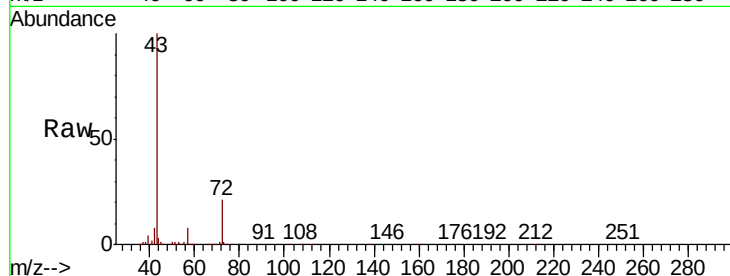




#34
2-Butanone
Concen: 37.962 ppbv
RT: 5.26 min Scan# 769
Delta R.T. -0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

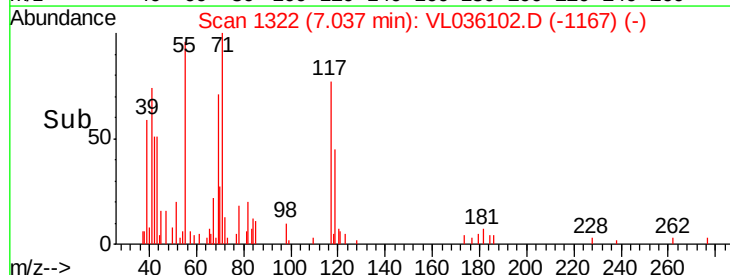
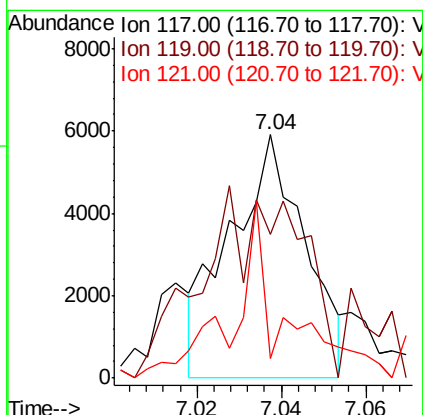
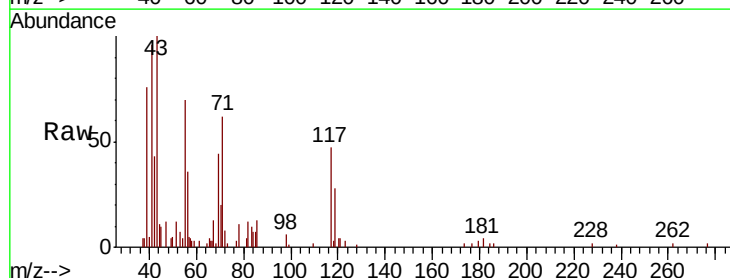
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

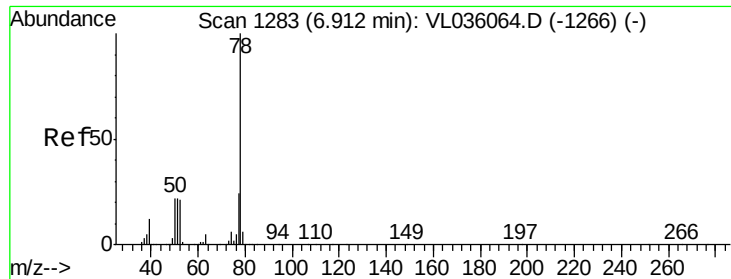
Tot Ion: 43 Resp: 6666077
Ion Ratio Lower Upper
43 100
72 21.1 16.5 24.7



#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 7.04 min Scan# 1322
Delta R.T. -0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 117 Resp: 7299
Ion Ratio Lower Upper
117 100
119 79.4 75.1 112.7
121 0.0 25.6 38.4#



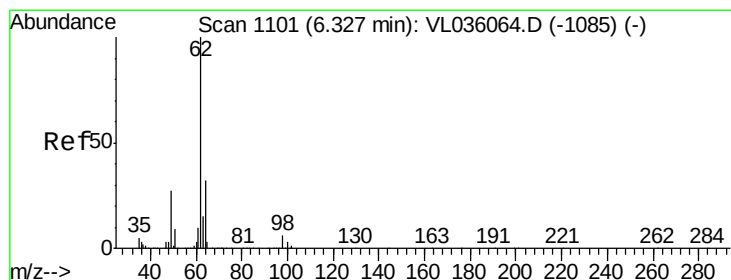
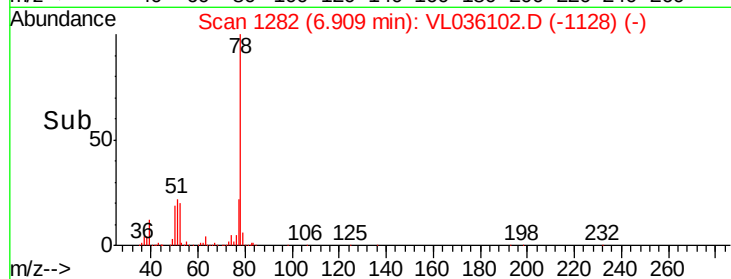
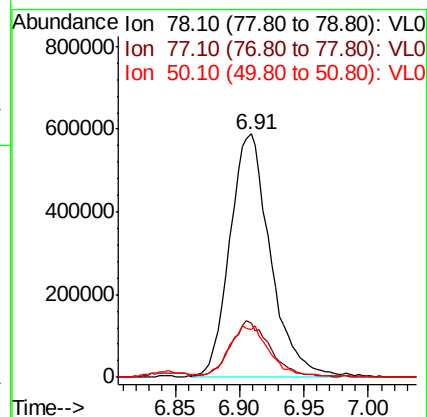
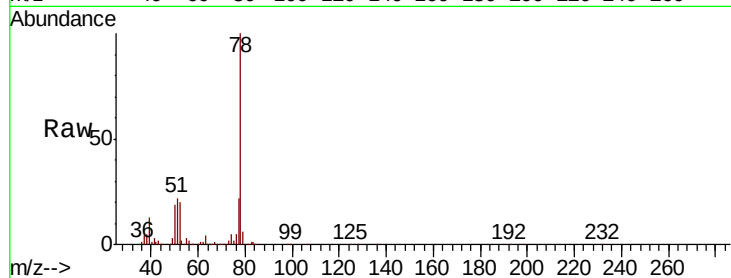


#36
Benzene
Concen: 5.676 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion: 78 Resp: 1273469

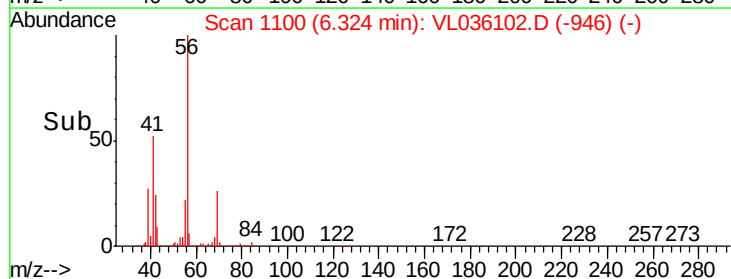
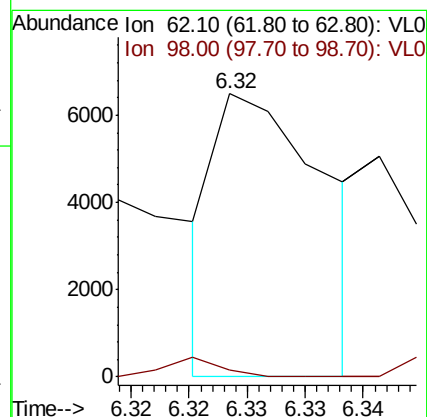
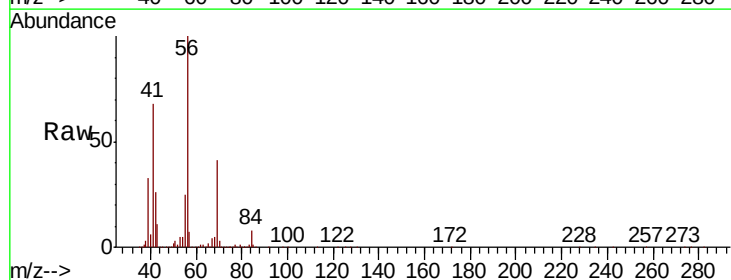
Ion	Ratio	Lower	Upper
78	100		
77	21.8	19.4	29.2
50	19.0	17.8	26.8

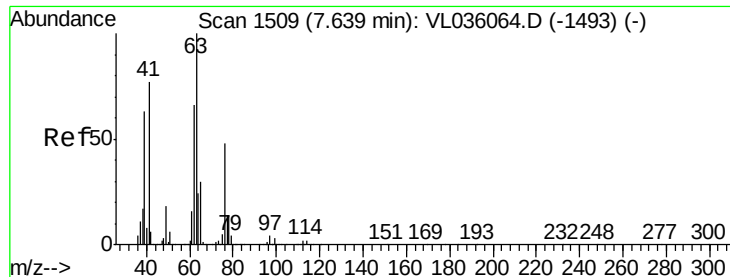


#37
1,2-Dichloroethane
Concen: 0.033 ppbv
RT: 6.32 min Scan# 1100
Delta R.T. -0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 62 Resp: 4229

Ion	Ratio	Lower	Upper
62	100		
98	4.9	4.6	7.0





#39

1,2-Dichloropropane

Concen: 8.523 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.44 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

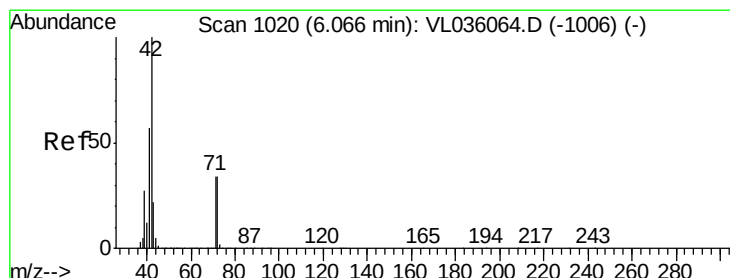
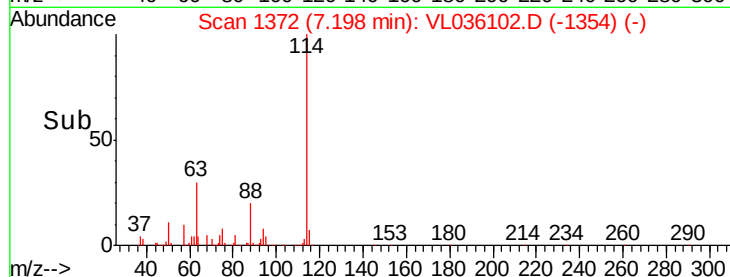
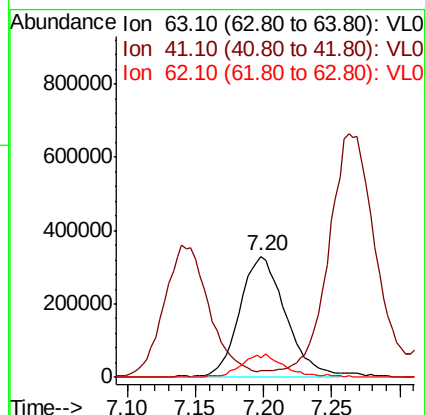
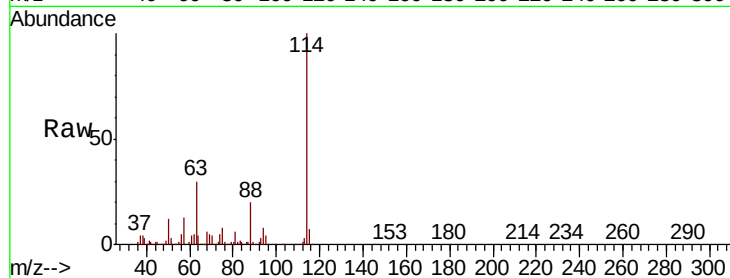
Tot Ion: 63 Resp: 755116

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

62 15.3 52.5 78.7#



#41

Tetrahydrofuran

Concen: 17.568 ppbv

RT: 6.06 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

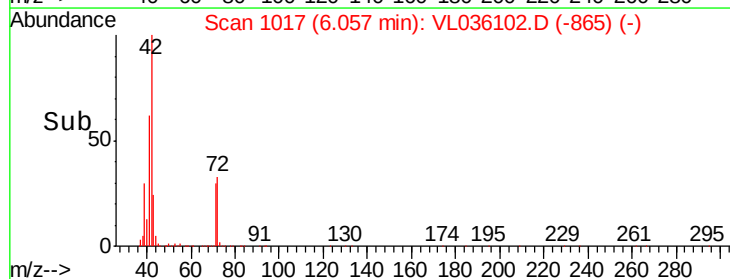
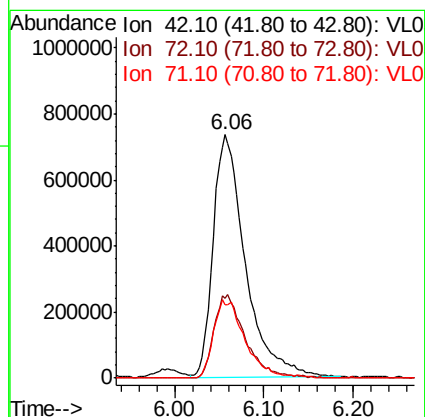
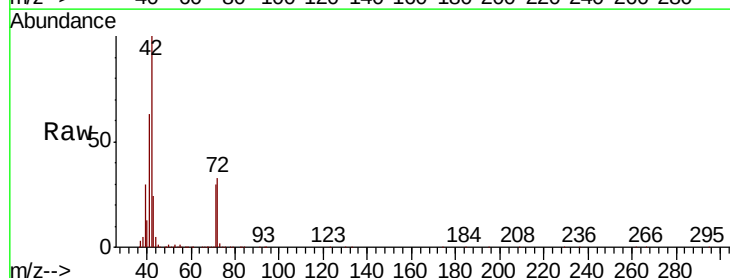
Tgt Ion: 42 Resp: 1832683

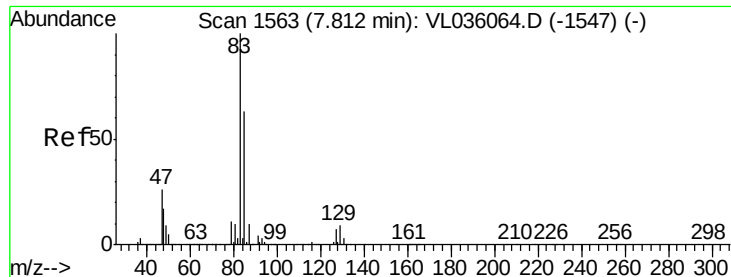
Ion Ratio Lower Upper

42 100

72 33.9 28.3 42.5

71 32.0 27.3 40.9





#42

Bromodichloromethane

Concen: 0.298 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

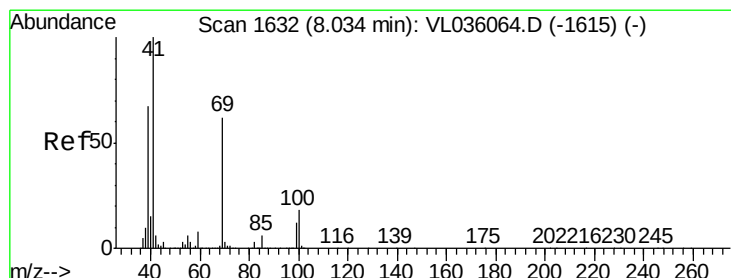
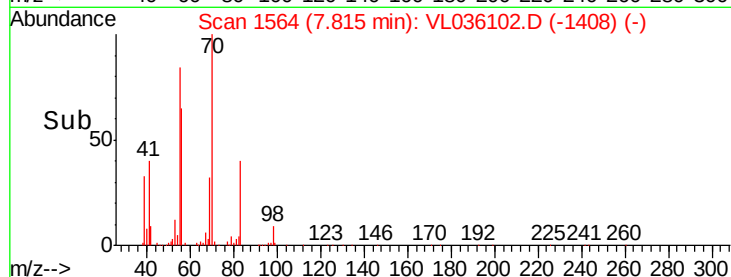
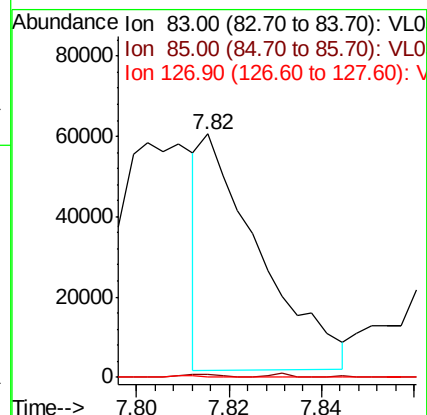
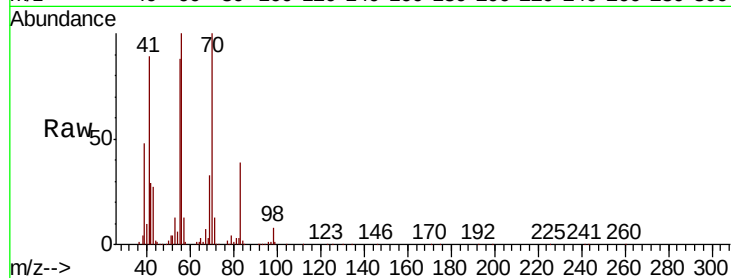
Tot Ion: 83 Resp: 51595

Ion Ratio Lower Upper

83 100

85 0.6 50.2 75.2#

127 0.0 5.5 8.3#



#43

Methyl Methacrylate

Concen: 0.170 ppbv

RT: 8.03 min Scan# 1632

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

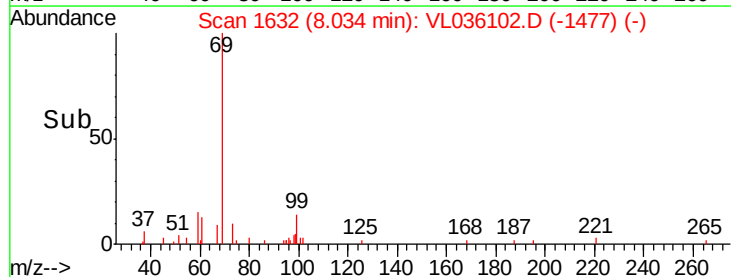
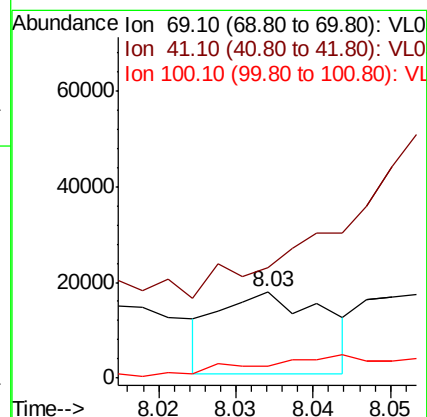
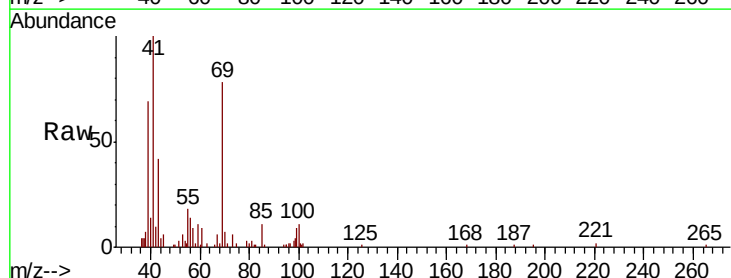
Tgt Ion: 69 Resp: 16380

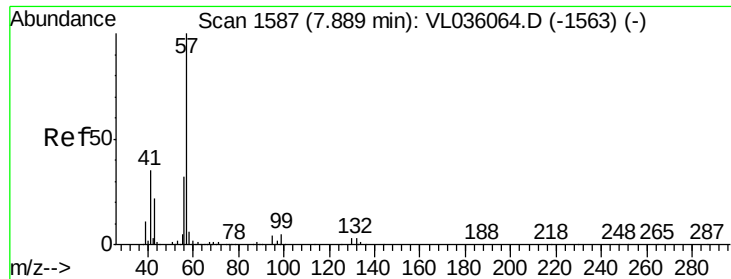
Ion Ratio Lower Upper

69 100

41 0.0 133.0 199.6#

100 56.7 25.4 38.0#





#44

2,2,4-Trimethylpentane

Concen: 15.957 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

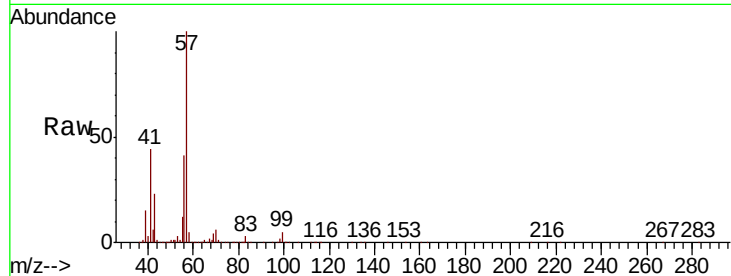
Tot Ion: 57 Resp: 6483406

Ion Ratio Lower Upper

57 100

41 46.4 28.9 43.3#

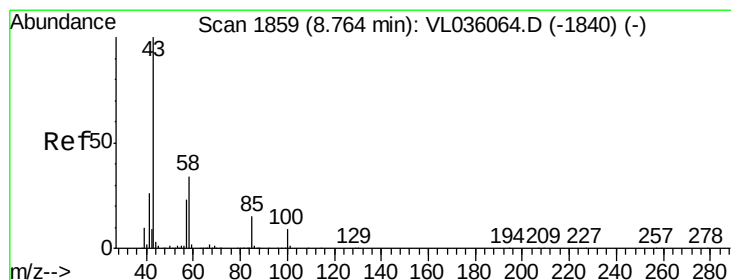
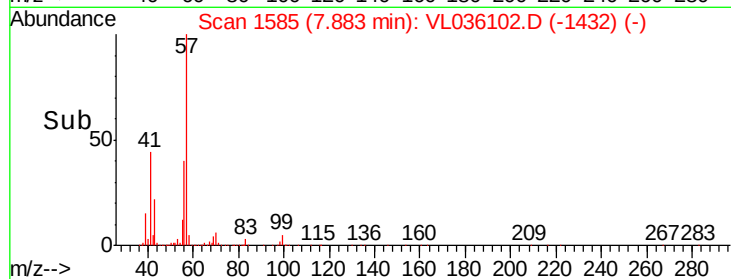
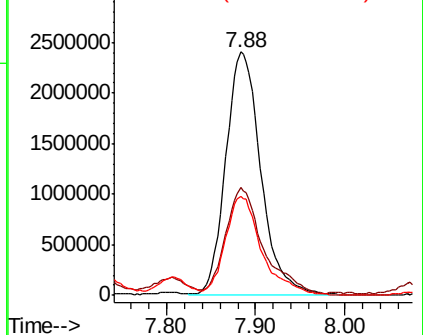
56 42.9 25.3 37.9#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 3.323 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL036102.D

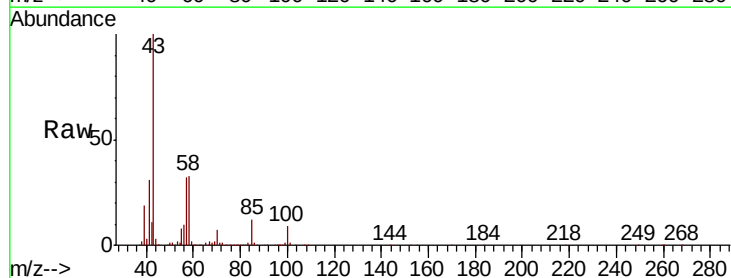
Acq: 8 Dec 2020 19:49

Tgt Ion: 43 Resp: 870259

Ion Ratio Lower Upper

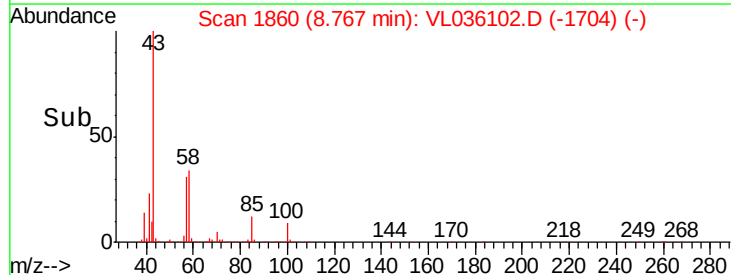
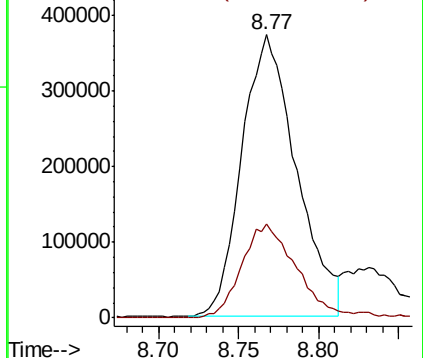
43 100

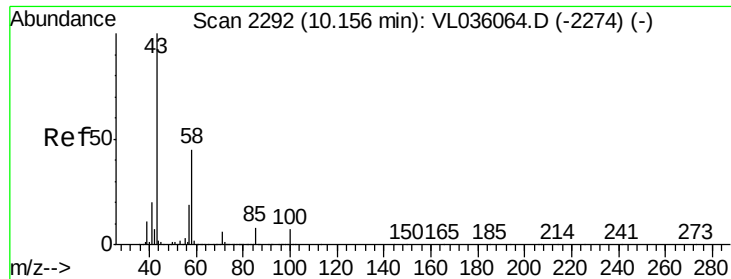
58 34.4 27.4 41.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

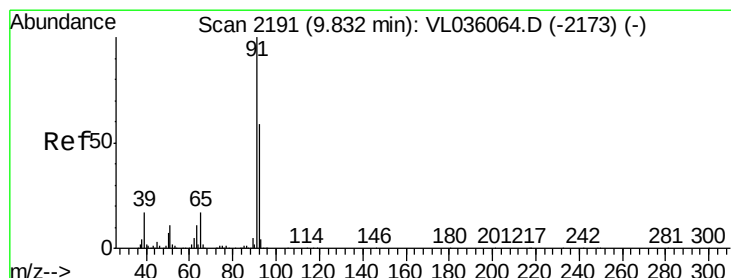
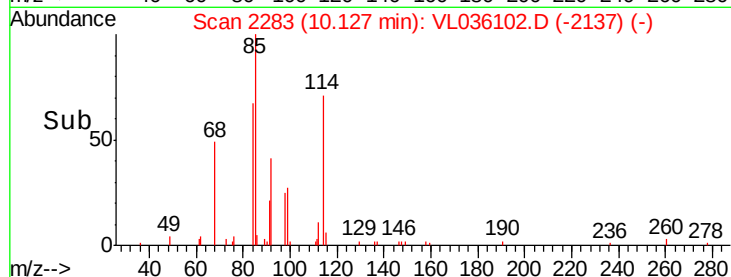
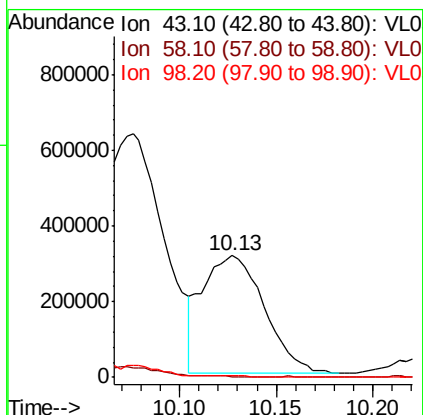
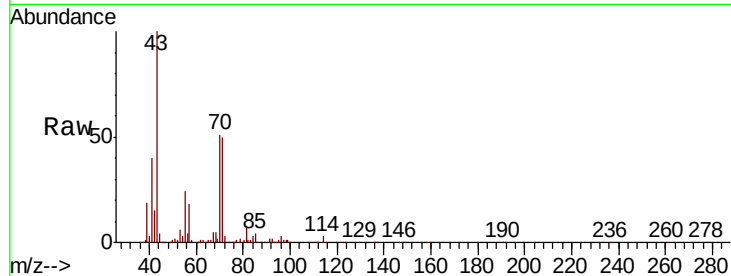




#51
2-Hexanone
Concen: 3.383 ppbv
RT: 10.13 min Scan# 2283
Delta R.T. -0.03 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

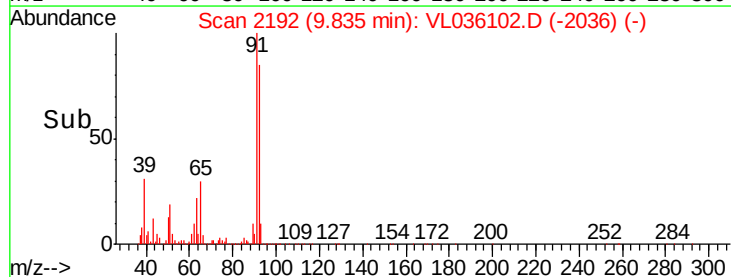
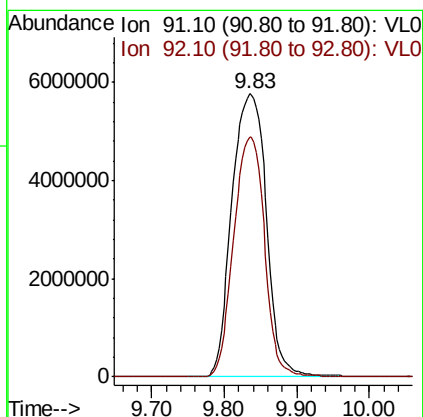
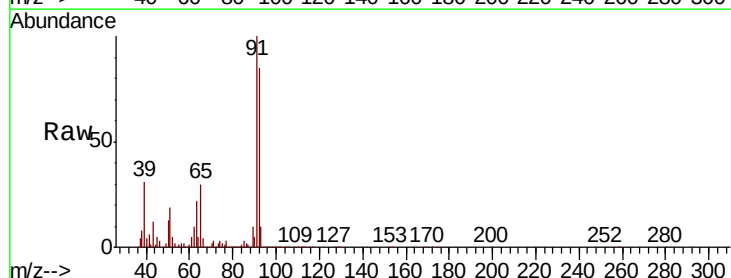
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

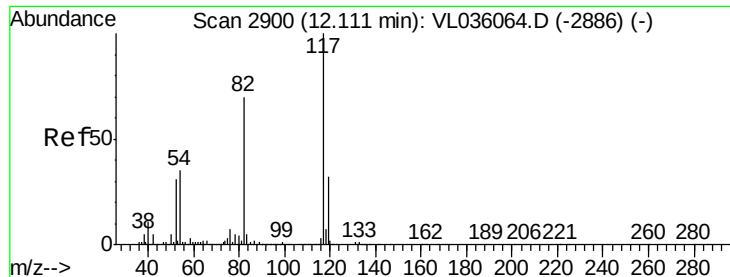
Tot Ion: 43 Resp: 692610
Ion Ratio Lower Upper
43 100
58 0.0 38.7 58.1#
98 0.0 0.1 0.1#



#53
Toluene
Concen: 75.807 ppbv
RT: 9.83 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 91 Resp:19097564
Ion Ratio Lower Upper
91 100
92 76.1 48.2 72.2#

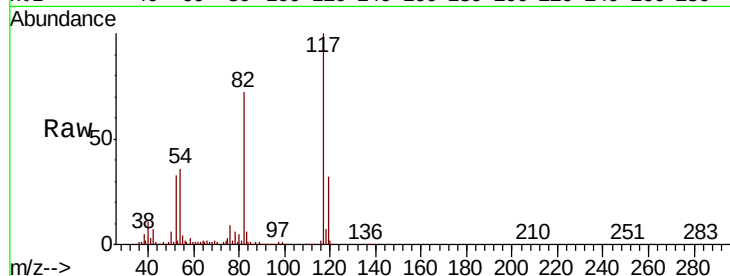




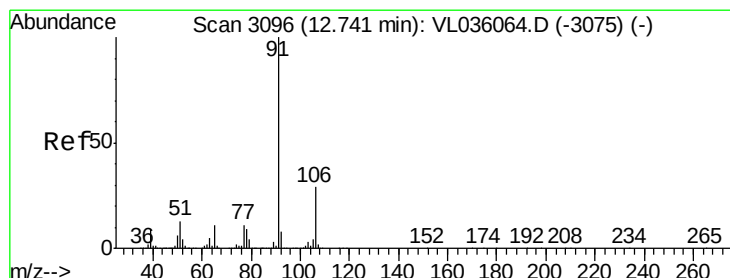
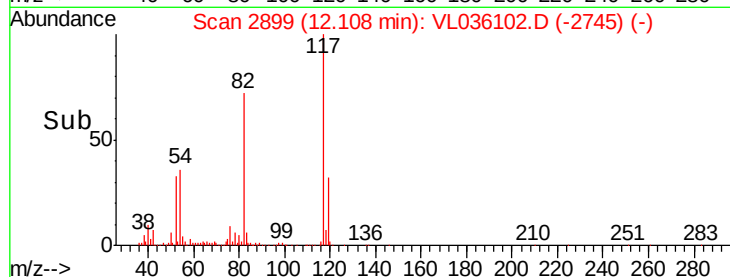
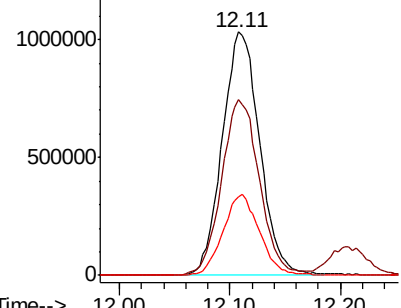
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Instrument :
MSVOA_L
ClientSampled :
IA-1DUP

Tot Ion:117 Resp: 2421775
Ion Ratio Lower Upper
117 100
82 73.2 0.0 0.0#
119 32.6 0.0 0.0#

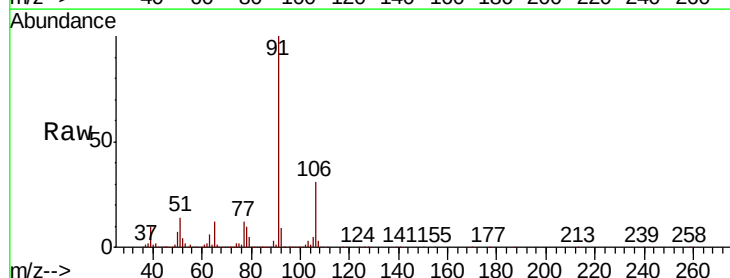


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

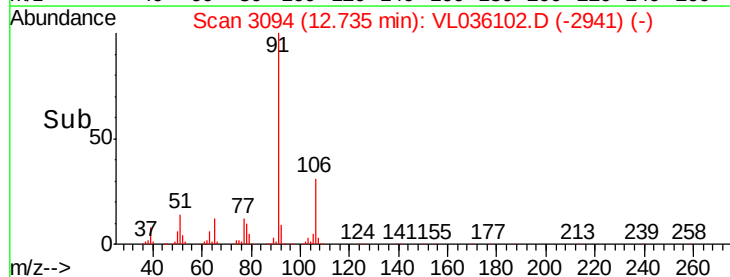
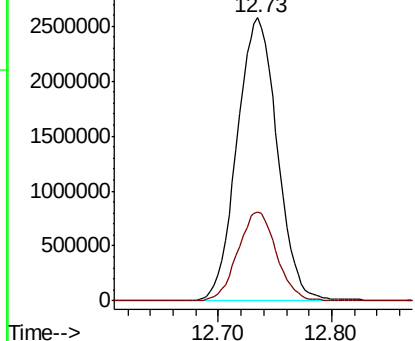


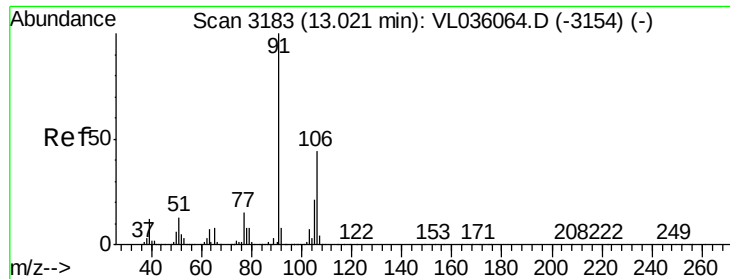
#58
Ethyl Benzene
Concen: 19.106 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. -0.01 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 91 Resp: 6341181
Ion Ratio Lower Upper
91 100
106 31.2 23.0 34.4



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

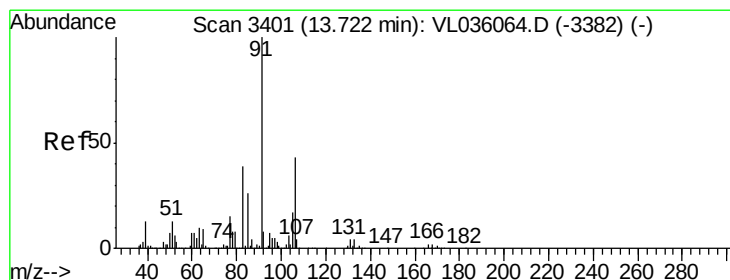
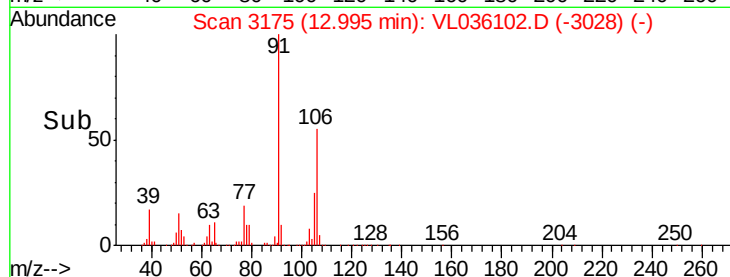
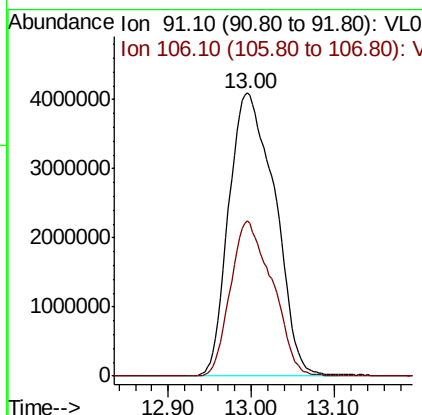
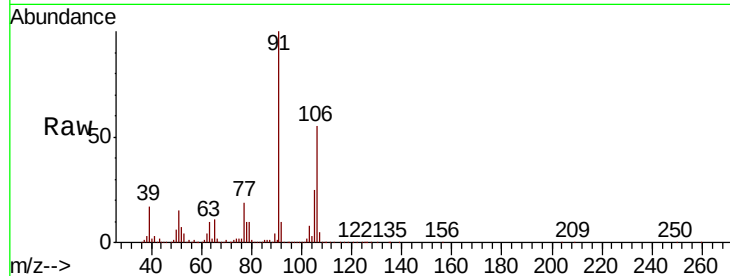




#59
m/p-Xylene
Concen: 56.477 ppbv
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

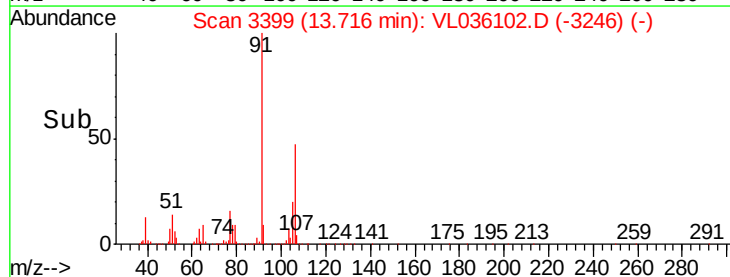
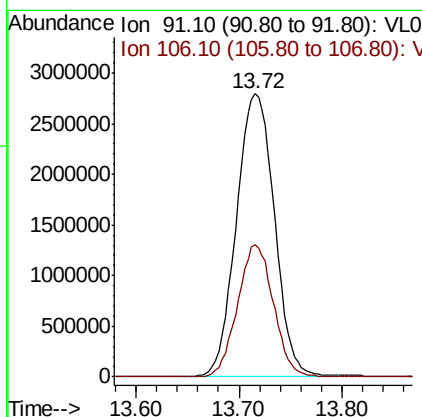
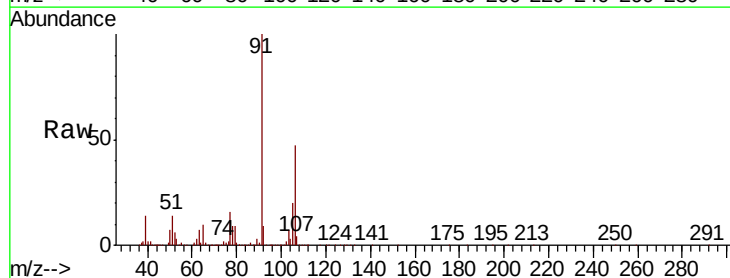
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

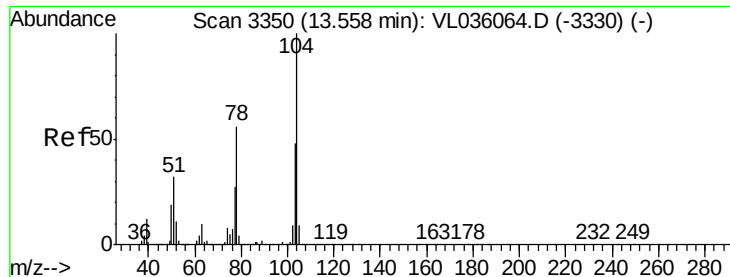
Tot Ion: 91 Resp:15787317
Ion Ratio Lower Upper
91 100
106 50.3 33.6 50.4



#60
o-Xylene
Concen: 27.192 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 91 Resp: 7161611
Ion Ratio Lower Upper
91 100
106 44.2 21.6 64.6





#61

Stvrene

Concen: 0.808 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

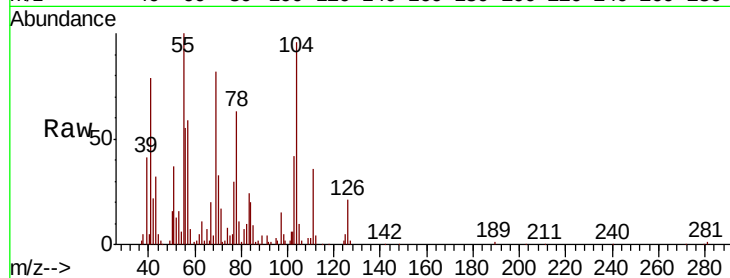
Tot Ion:104 Resp: 136692

Ion Ratio Lower Upper

104 100

78 59.5 45.8 68.8

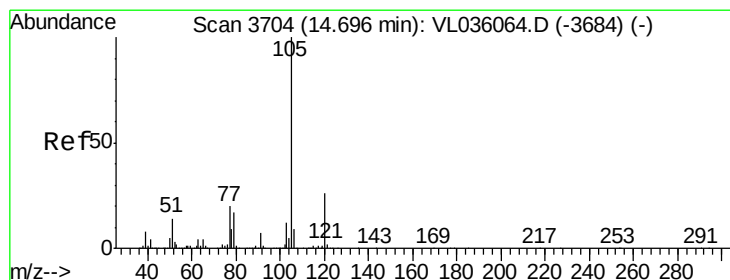
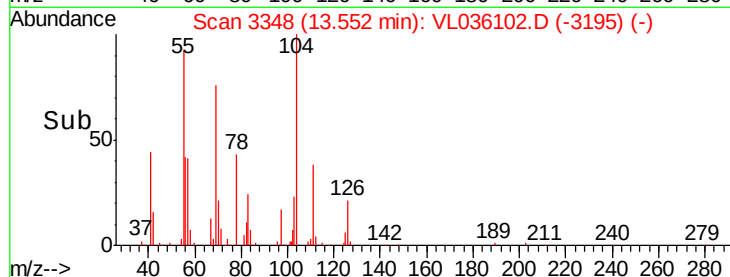
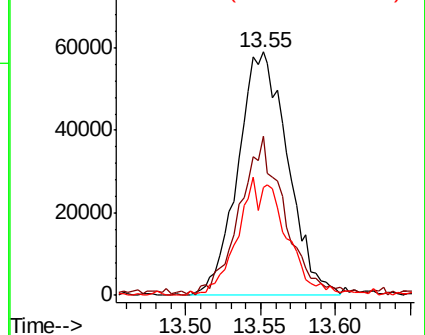
103 46.8 38.6 57.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.922 ppbv

RT: 14.69 min Scan# 3701

Delta R.T. -0.01 min

Lab File: VL036102.D

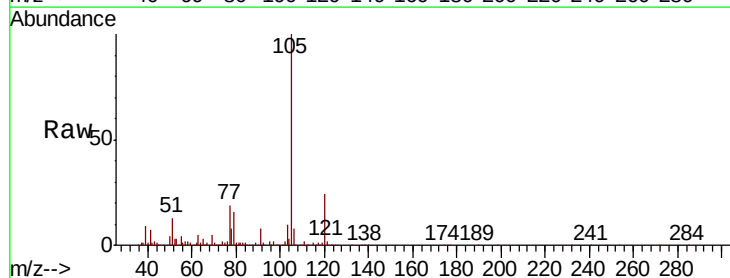
Acq: 8 Dec 2020 19:49

Tgt Ion:105 Resp: 750325

Ion Ratio Lower Upper

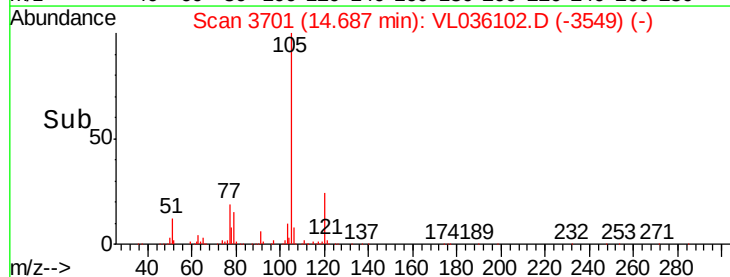
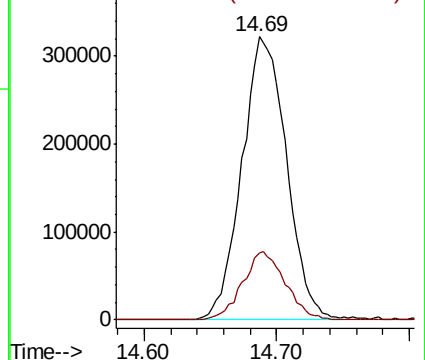
105 100

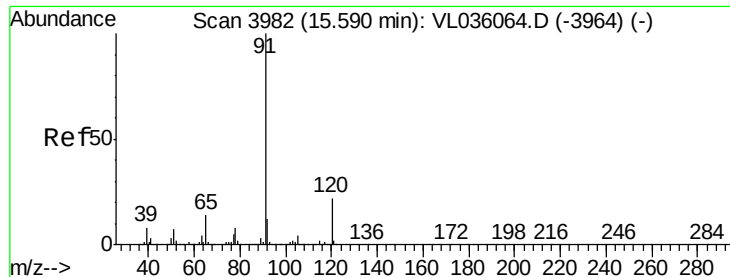
120 23.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

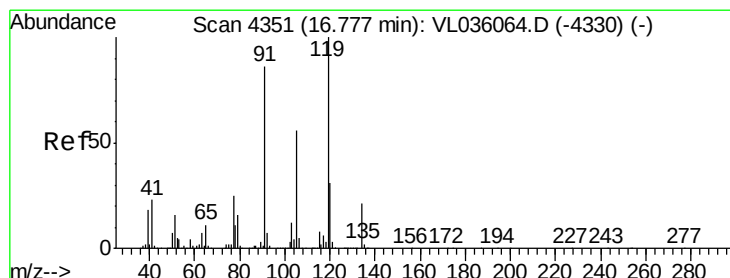
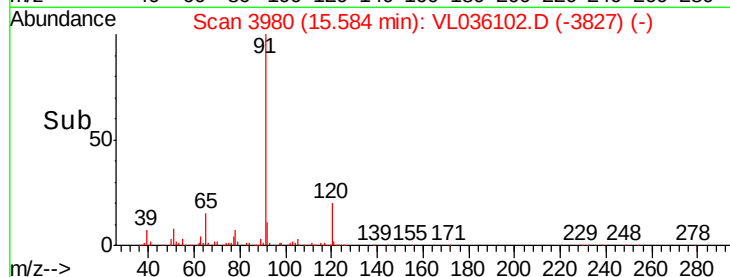
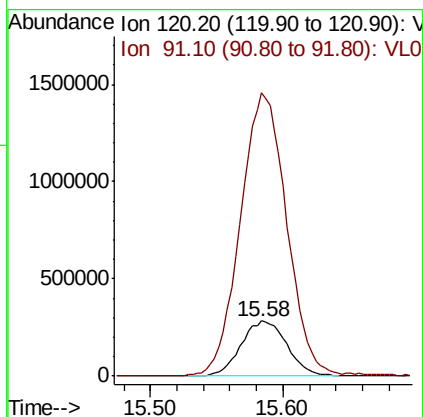
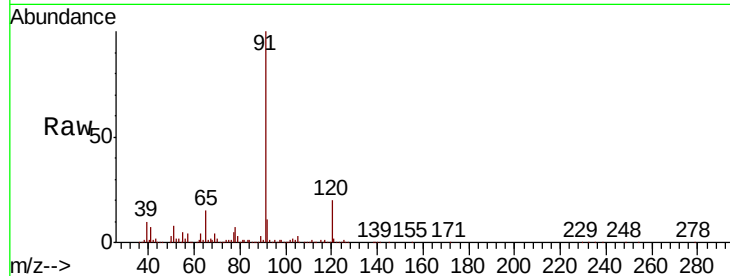




#64
n-propylbenzene
Concen: 7.302 ppbv
RT: 15.58 min Scan# 3980
Delta R.T. -0.01 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

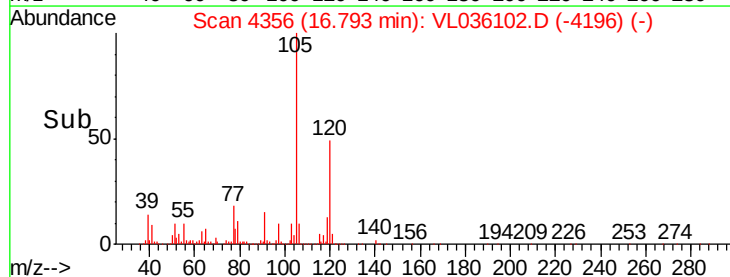
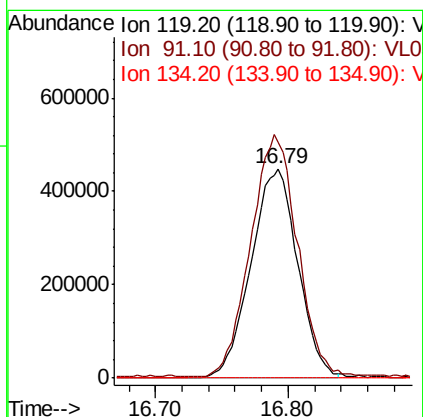
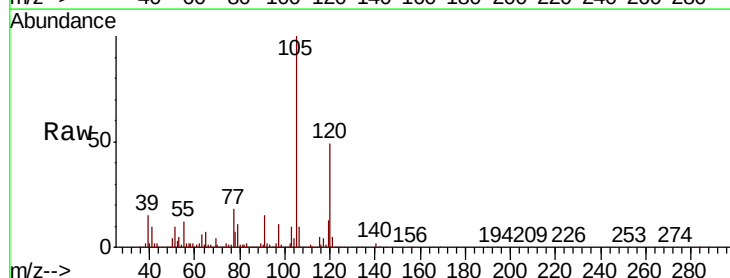
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

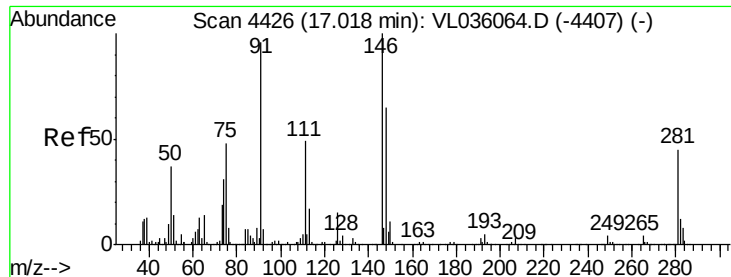
Tot Ion:120 Resp: 685830
Ion Ratio Lower Upper
120 100
91 520.2 388.9 583.3



#65
tert-Butylbenzene
Concen: 3.449 ppbv
RT: 16.79 min Scan# 4356
Delta R.T. 0.02 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion:119 Resp: 1102117
Ion Ratio Lower Upper
119 100
91 116.2 70.2 105.2#
134 0.1 15.8 23.6#

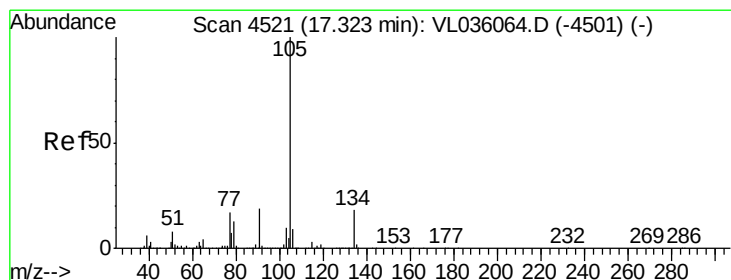
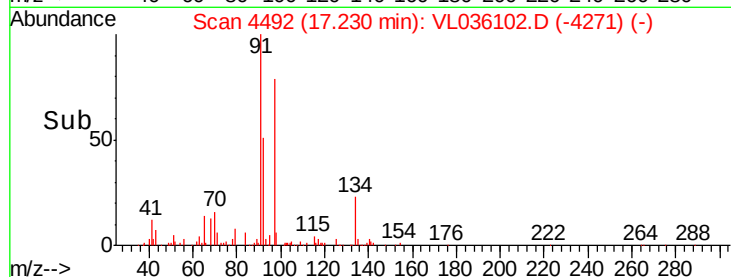
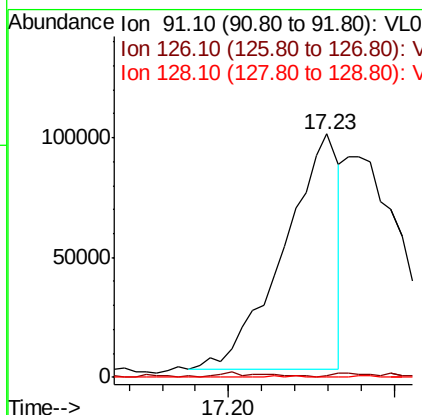
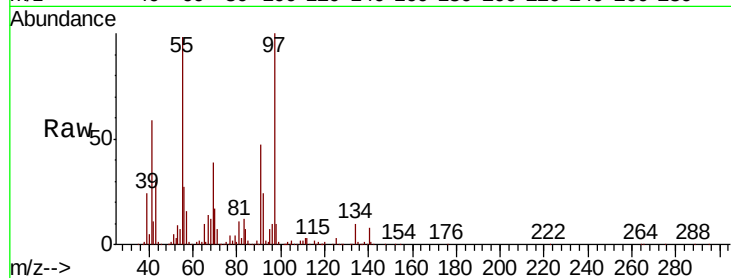




#66
Benzyl Chloride
Concen: 1.437 ppbv
RT: 17.23 min Scan# 4492
Delta R.T. 0.21 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

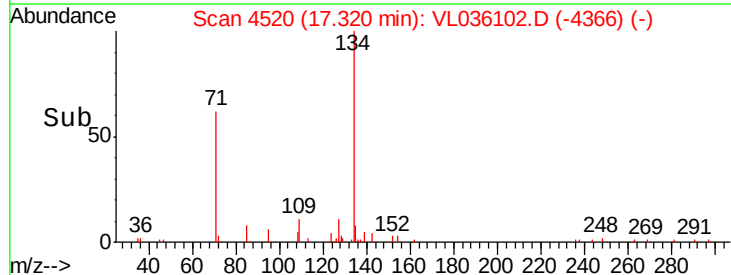
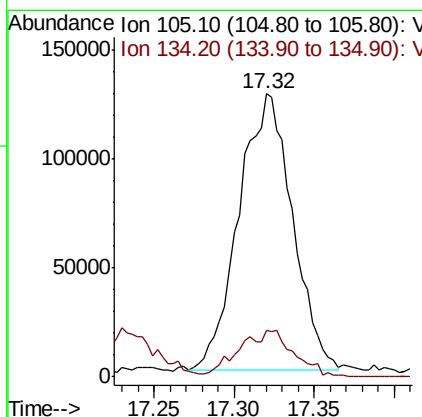
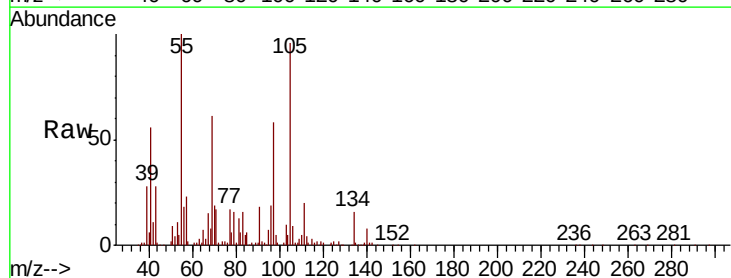
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

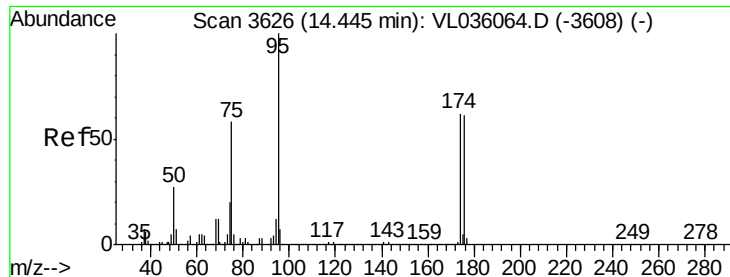
Tot Ion: 91 Resp: 114343
Ion Ratio Lower Upper
91 100
126 0.0 13.5 20.3#
128 0.3 4.4 6.6#



#67
sec-Butylbenzene
Concen: 0.649 ppbv
RT: 17.32 min Scan# 4520
Delta R.T. -0.00 min
Lab File: VL036102.D
Acq: 8 Dec 2020 19:49

Tgt Ion: 105 Resp: 290129
Ion Ratio Lower Upper
105 100
134 17.4 14.2 21.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.994 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

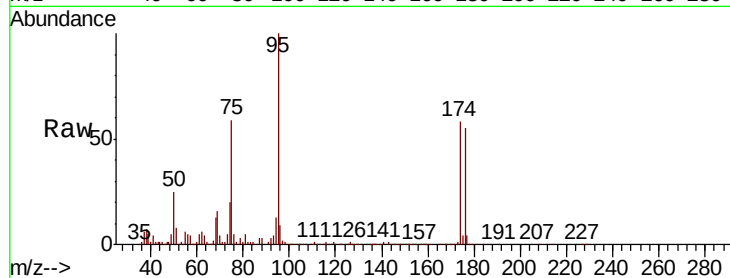
Tot Ion: 95 Resp: 2114093

Ion Ratio Lower Upper

95 100

174 57.4 50.7 76.1

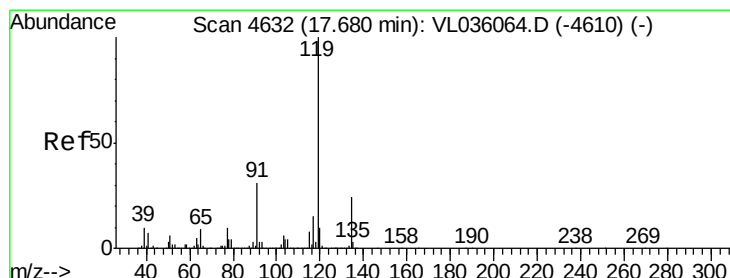
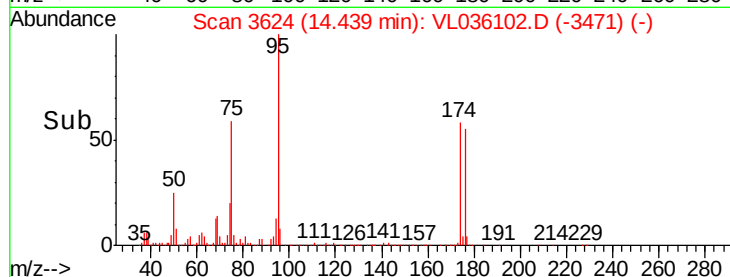
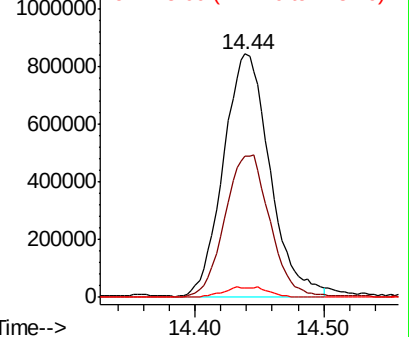
175 4.2 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 1.110 ppbv

RT: 17.56 min Scan# 4596

Delta R.T. -0.12 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

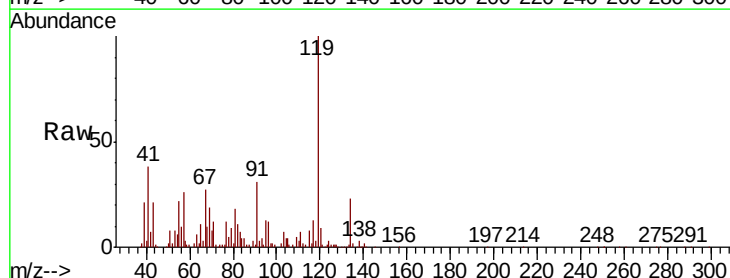
Tgt Ion: 119 Resp: 394903

Ion Ratio Lower Upper

119 100

134 24.7 19.8 29.6

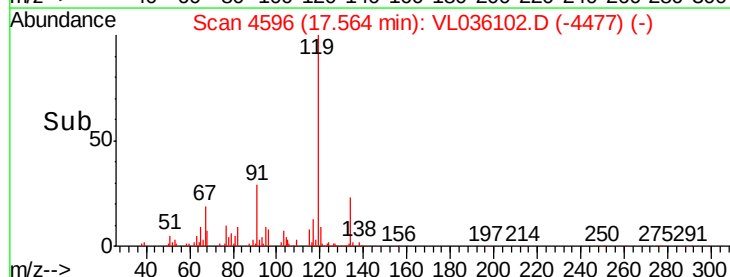
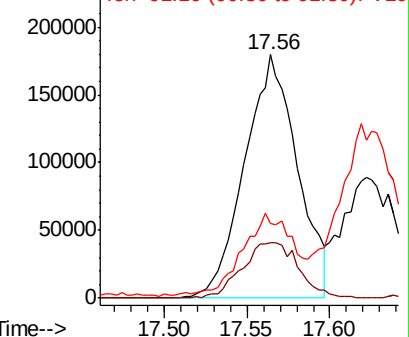
91 34.5 25.8 38.6

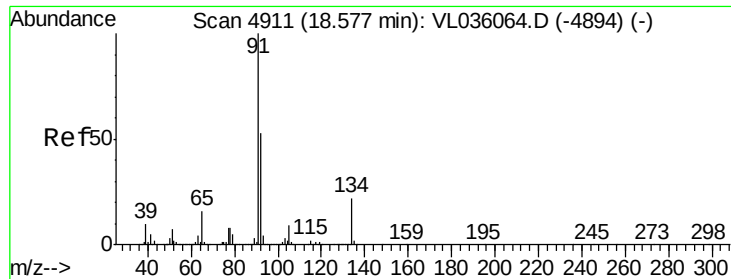


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#70

n-Butylbenzene

Concen: 1.223 ppbv

RT: 18.57 min Scan# 4910

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

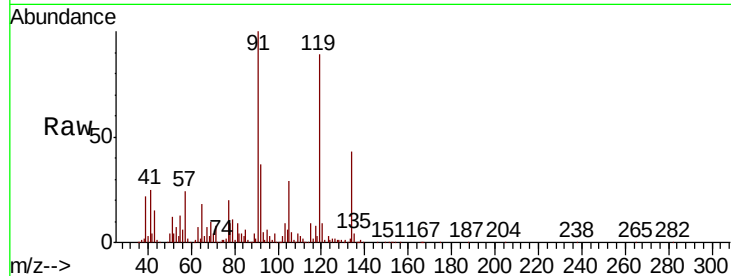
Tot Ion: 91 Resp: 429943

Ion Ratio Lower Upper

91 100

92 0.0 43.3 64.9#

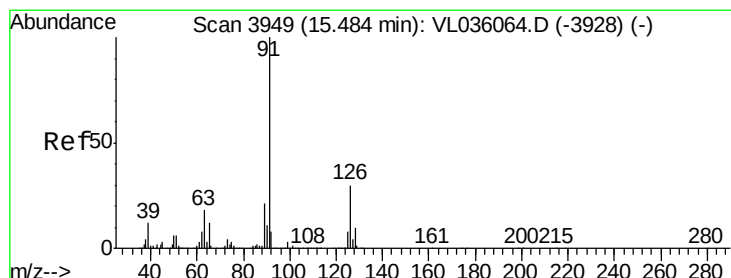
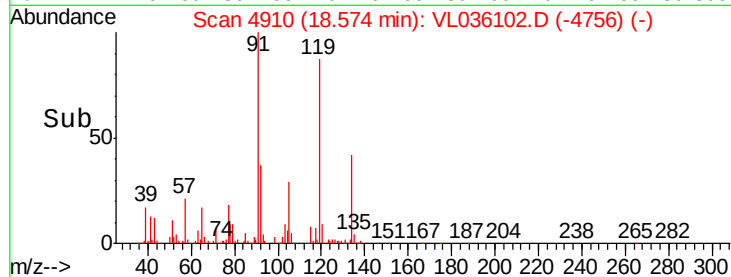
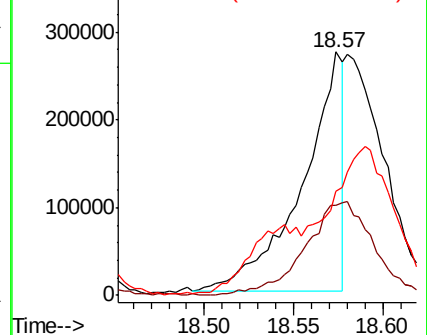
134 0.0 17.1 25.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 11.884 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. 0.10 min

Lab File: VL036102.D

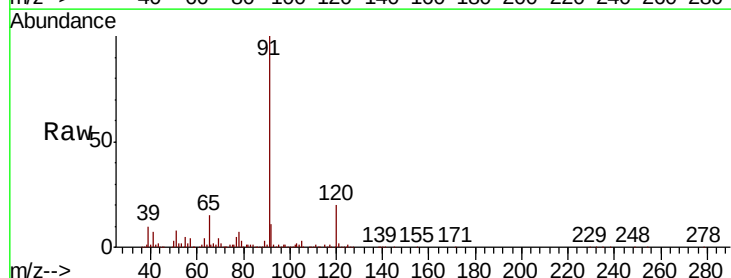
Acq: 8 Dec 2020 19:49

Tgt Ion: 91 Resp: 3506919

Ion Ratio Lower Upper

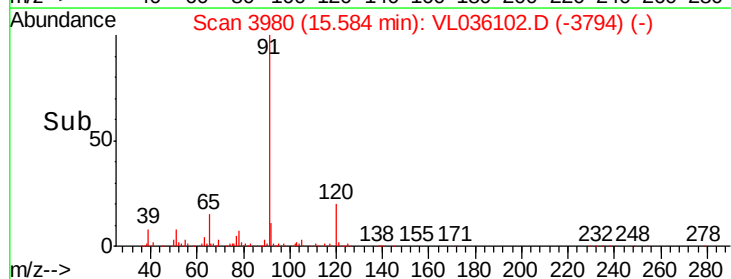
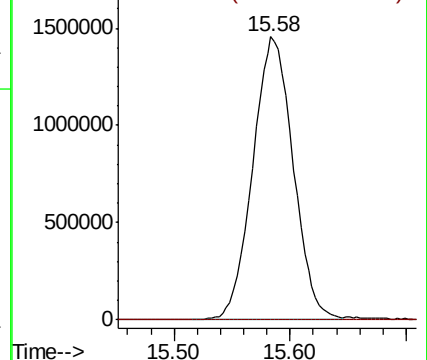
91 100

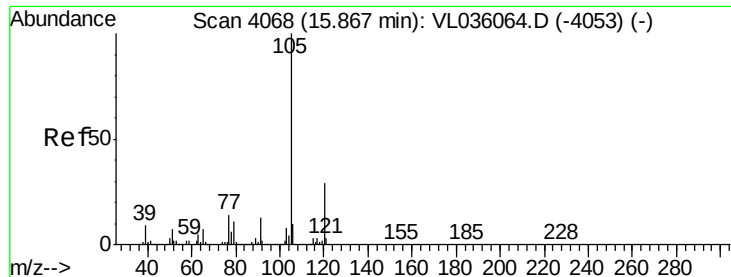
126 0.3 11.6 46.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 13.062 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion:105 Resp: 3726413

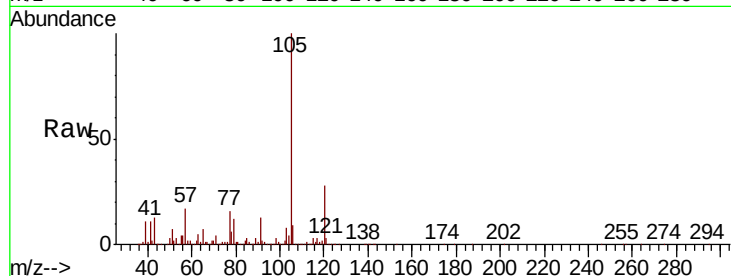
Ion	Ratio	Lower	Upper
105	100		
120	28.3	23.6	35.4
91	13.6	11.4	17.0
77	15.4	12.1	18.1

105 100

120 28.3 23.6 35.4

91 13.6 11.4 17.0

77 15.4 12.1 18.1

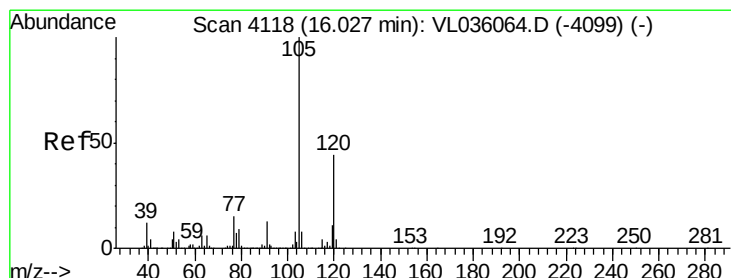
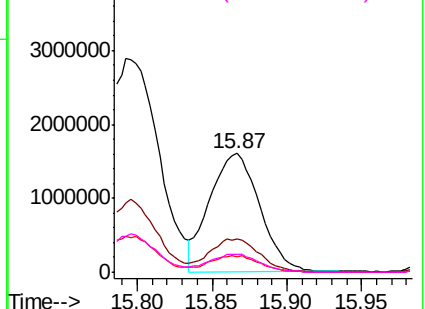
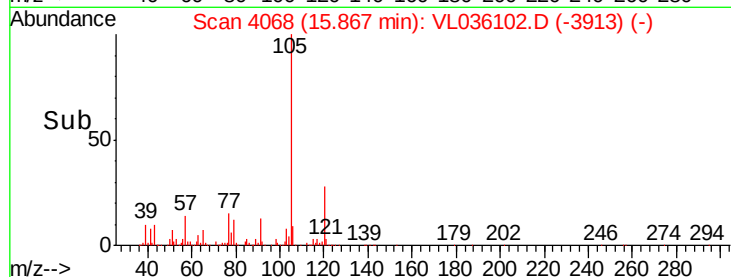


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 12.538 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VL036102.D

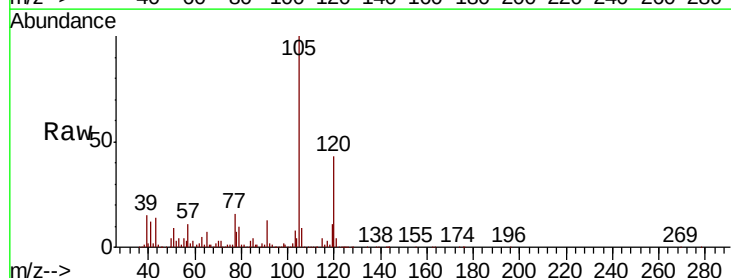
Acq: 8 Dec 2020 19:49

Tgt Ion:105 Resp: 3416296

Ion	Ratio	Lower	Upper
105	100		
120	42.9	35.4	53.2

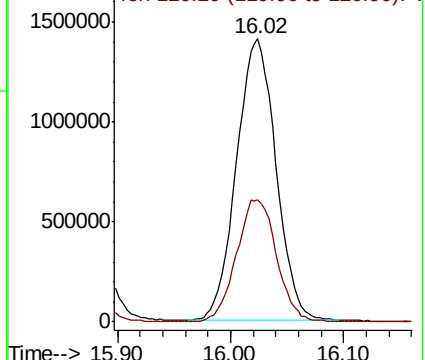
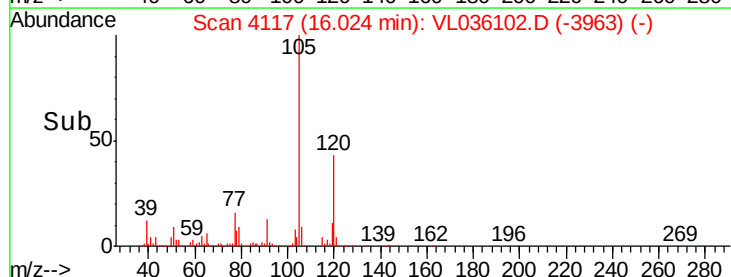
105 100

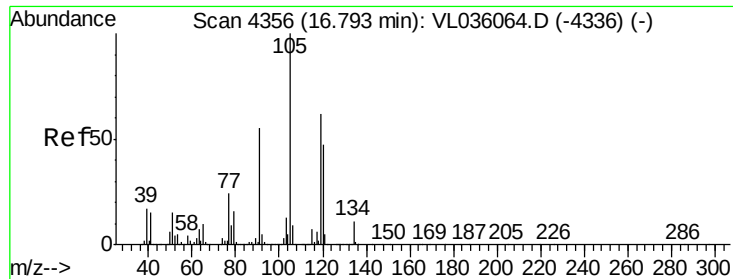
120 42.9 35.4 53.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 33.539 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion:105 Resp: 9173249

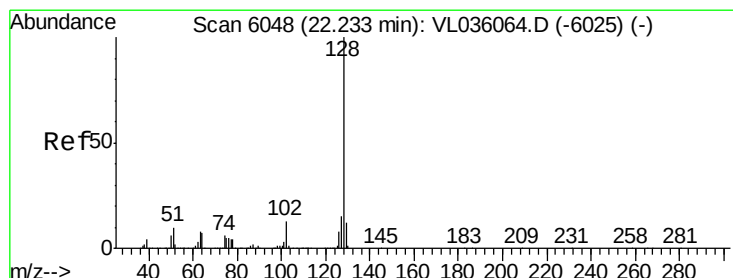
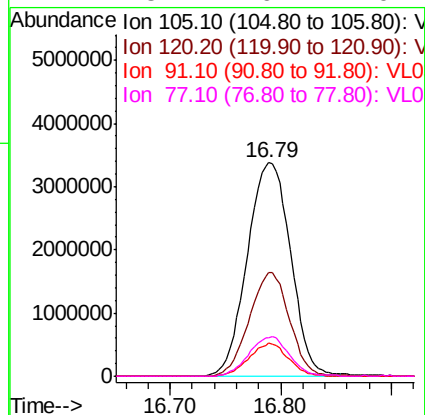
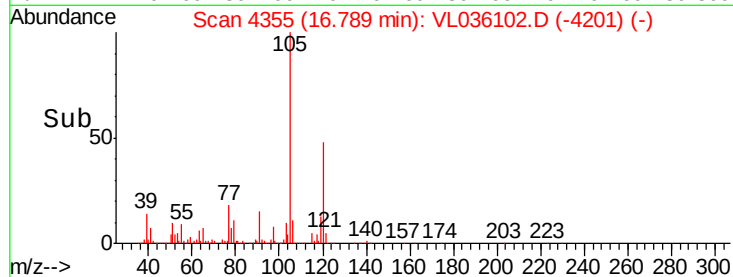
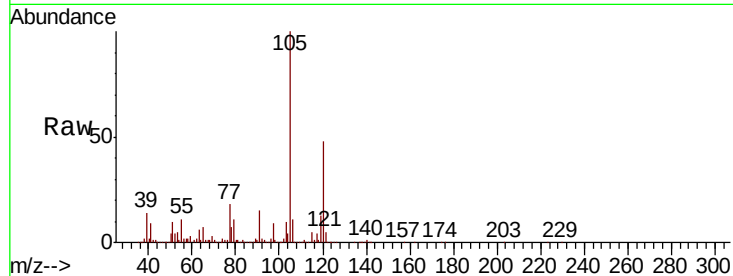
Ion Ratio Lower Upper

105 100

120 48.3 37.4 56.0

91 15.3 45.6 68.4#

77 18.1 19.4 29.2#



#79

Naphthalene

Concen: 3.436 ppbv

RT: 22.23 min Scan# 6047

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

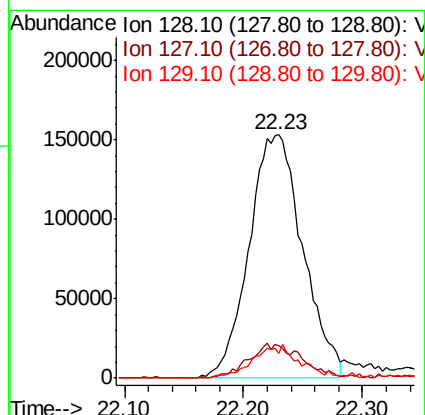
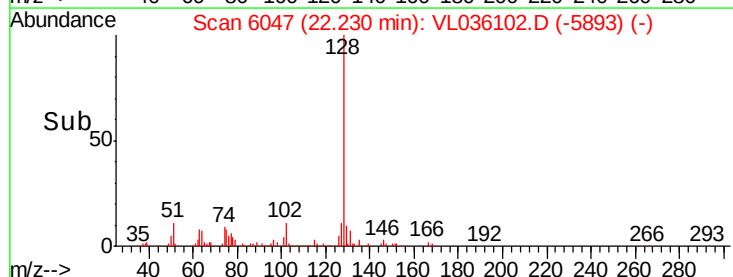
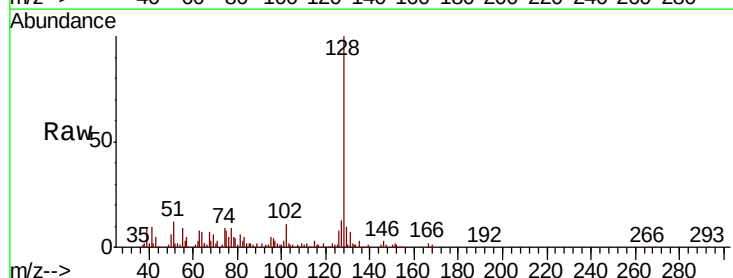
Tgt Ion:128 Resp: 477720

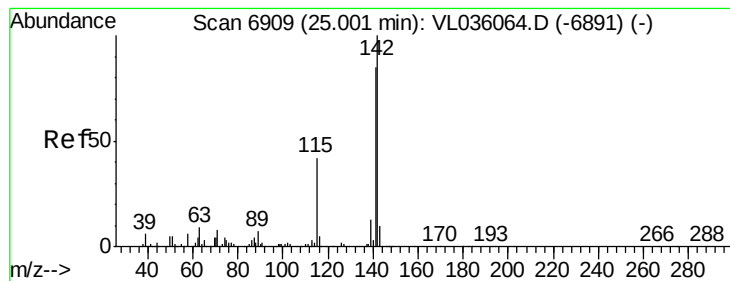
Ion Ratio Lower Upper

128 100

127 13.3 11.7 17.5

129 10.1 9.3 13.9





#80

Naphthalene, 2-methyl-

Concen: 1.106 ppbv

RT: 25.31 min Scan# 7005

Delta R.T. 0.31 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

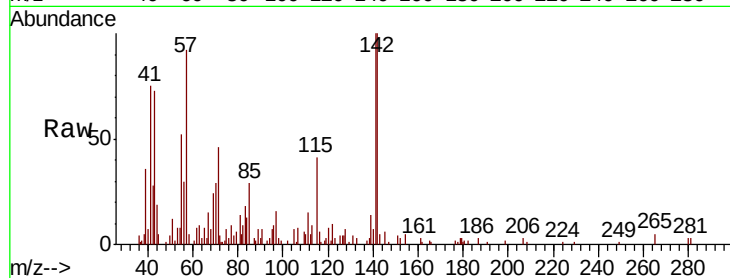
Tot Ion:142 Resp: 34385

Ion Ratio Lower Upper

142 100

141 80.1 64.3 96.5

115 45.9 33.9 50.9



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

