

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034997.D
 Acq On : 12 May 2020 21:38
 Operator : SY/AP
 Sample : L2567-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Quant Time: May 13 01:12:41 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	5.66	49	1035826	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2521935	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2374691	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1979459	10.30	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	41861	0.285	ppbv 99
3) Chlorodifluoromethane	2.92	51	143202	1.211	ppbv # 68
4) Chloromethane	3.10	50	39243	0.579	ppbv 95
9) Propene	2.96	41	281772	5.491	ppbv 85
10) Heptane	8.12	43	417222	3.245	ppbv 99
11) Trichlorofluoromethane	3.91	101	42385	0.280	ppbv 91
12) 1,1,2-Trichlorotrifluoroet	4.46	101	2476	0.023	ppbv # 1
13) Ethanol	3.60	45	845439	49.926	ppbv 100
15) Acetone	3.81	43	5535554	40.423	ppbv # 87
16) 1,3-Butadiene	3.26	39	155636	2.641	ppbv # 40
17) tert-Butyl alcohol	4.28	59	2969786	24.374	ppbv # 71
19) Isopropyl Alcohol	3.96	45	5710936	62.535	ppbv # 98
20) Methylene Chloride	4.33	84	161285	3.558	ppbv # 89
21) Allyl Chloride	4.33	41	91218	1.179	ppbv # 56
23) Vinyl Acetate	5.08	43	790706	4.554	ppbv # 45
25) Ethyl Acetate	5.66	43	2982989	12.968	ppbv 97
26) Hexane	5.66	57	964332	9.670	ppbv # 68
30) Cyclohexane	7.12	84	178563	2.320	ppbv 95
31) cis-1,2-Dichloroethene	5.66	61	313211	3.219	ppbv # 24
34) 2-Butanone	5.23	43	377634	2.409	ppbv 99
36) Benzene	6.89	78	484058	2.328	ppbv 98
37) 1,2-Dichloroethane	6.30	62	3171	0.025	ppbv # 81
38) Trichloroethene	7.84	130	12601	0.156	ppbv # 88
39) 1,2-Dichloropropane	7.18	63	669801	8.036	ppbv # 24
41) Tetrahydrofuran	6.03	42	690233	8.364	ppbv 99
42) Bromodichloromethane	7.80	83	5810	0.034	ppbv # 26
43) Methyl Methacrylate	8.02	69	16954	0.193	ppbv # 1
44) 2,2,4-Trimethylpentane	7.86	57	855521	2.314	ppbv # 84
50) 4-Methyl-2-Pentanone	8.76	43	106972	0.479	ppbv 99
51) 2-Hexanone	10.12	43	224879	1.286	ppbv # 31
52) Tetrachloroethene	11.24	164	62467	0.845	ppbv 93
53) Toluene	9.84	91	21259403	96.452	ppbv # 69
58) Ethyl Benzene	12.73	91	2869666	9.772	ppbv 99
59) m/p-Xylene	12.99	91	7159577	27.711	ppbv # 62
60) o-Xylene	13.72	91	2247288	8.815	ppbv 100
61) Styrene	13.55	104	5477430	33.949	ppbv 98
62) Isopropylbenzene	14.70	105	34317	0.090	ppbv # 49
63) 1,1,2,2-Tetrachloroethane	13.69	83	4736	0.024	ppbv # 26
64) n-propylbenzene	15.58	120	16634	0.170	ppbv # 1
65) tert-Butylbenzene	16.79	119	50653	0.153	ppbv # 1
70) n-Butylbenzene	18.58	91	10532	0.026	ppbv # 32

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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

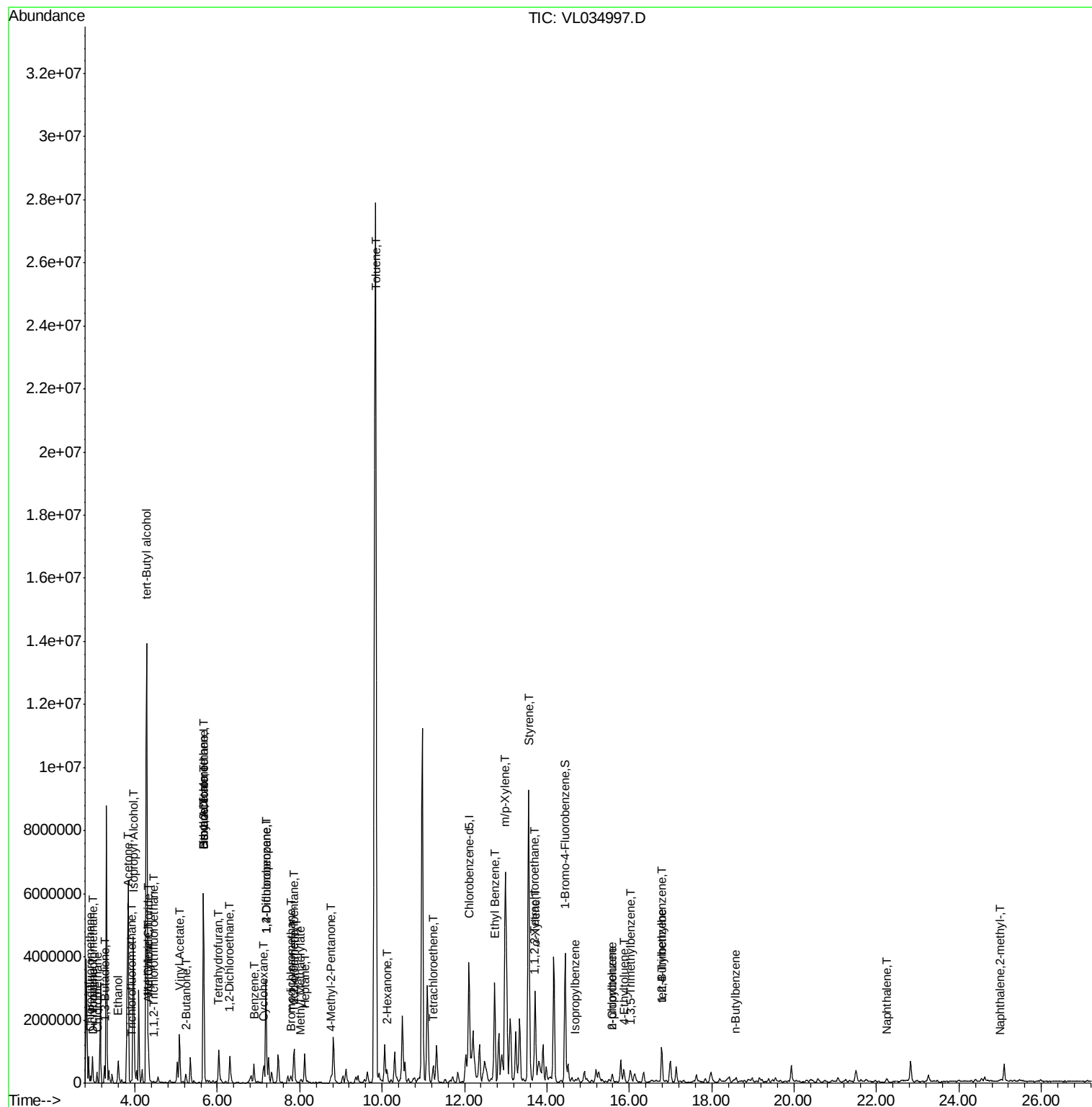
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	15.58	91	248538	0.865	ppbv #	45
72) 4-Ethyltoluene	15.86	105	286453	1.007	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	232228	0.839	ppbv	100
74) 1,2,4-Trimethylbenzene	16.79	105	842068	2.787	ppbv #	73
79) Naphthalene	22.25	128	13742	0.058	ppbv #	51
80) Naphthalene,2-methyl-	25.00	142	15735	0.272	ppbv #	77

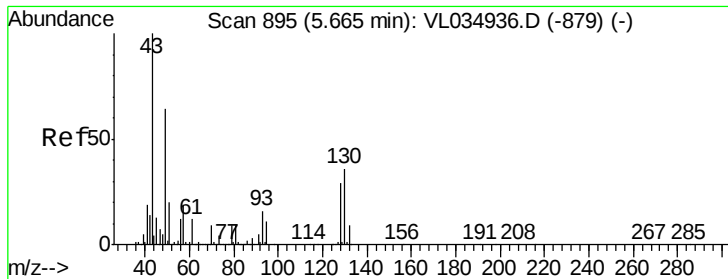
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034997.D

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IA-3

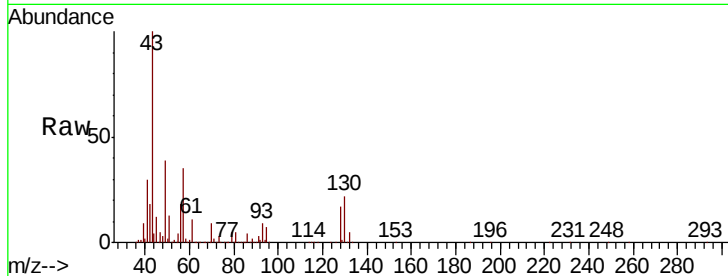
Tot Ion: 49 Resp: 1035826

Ion Ratio Lower Upper

49 100

128 45.4 22.1 66.5

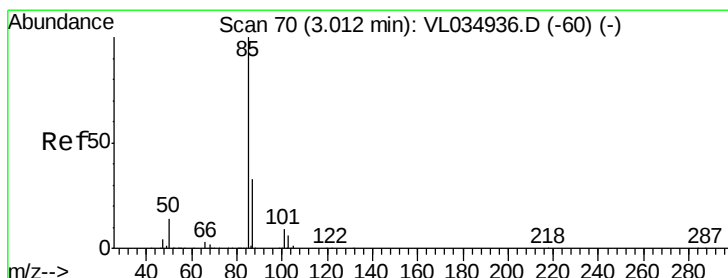
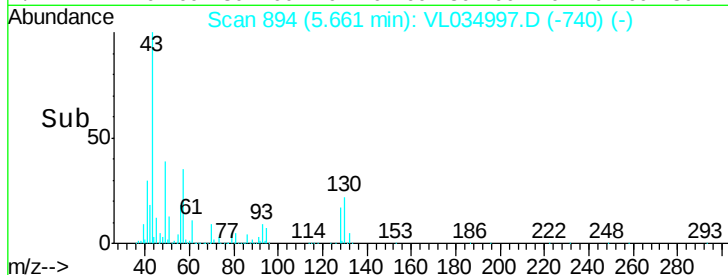
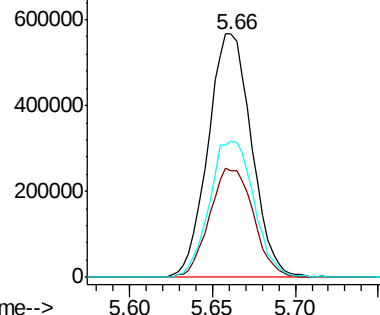
130 57.5 29.1 87.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.285 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL034997.D

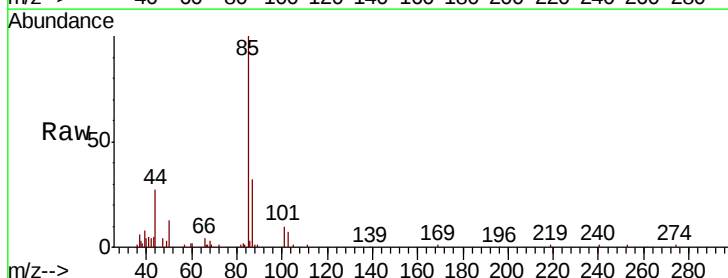
Acq: 12 May 2020 21:38

Tgt Ion: 85 Resp: 41861

Ion Ratio Lower Upper

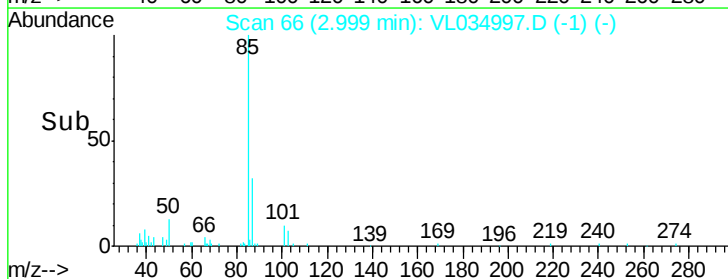
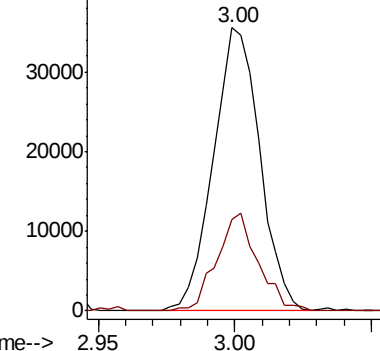
85 100

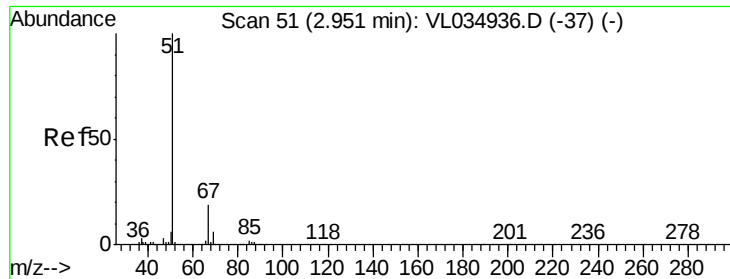
87 32.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.211 ppbv

RT: 2.92 min Scan# 40

Delta R.T. -0.04 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

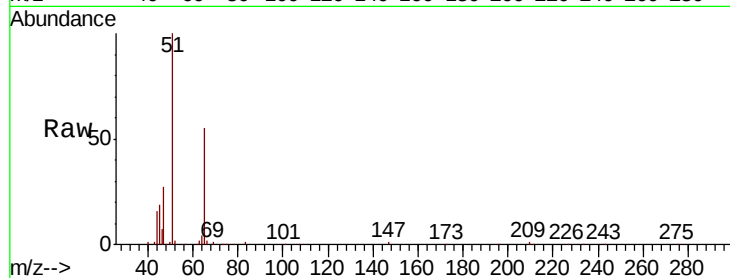
IA-3

Tot Ion: 51 Resp: 143202

Ion Ratio Lower Upper

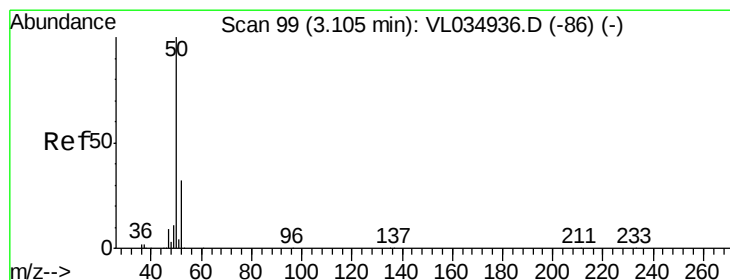
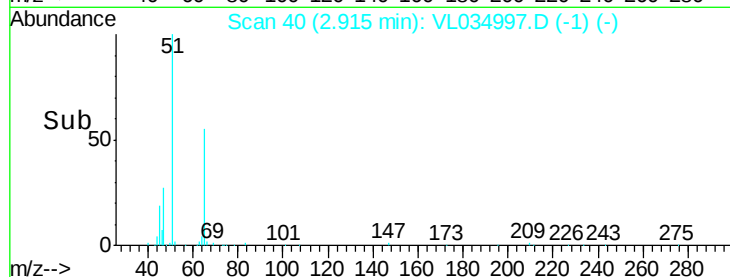
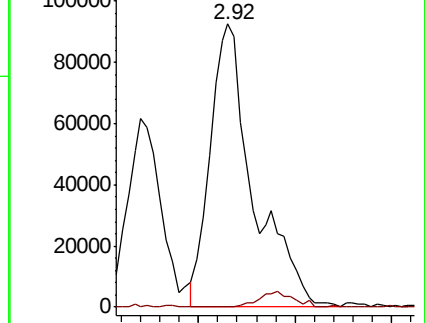
51 100

67 4.5 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: 0.579 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL034997.D

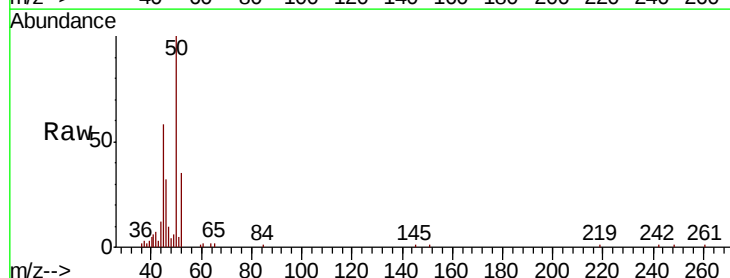
Acq: 12 May 2020 21:38

Tgt Ion: 50 Resp: 39243

Ion Ratio Lower Upper

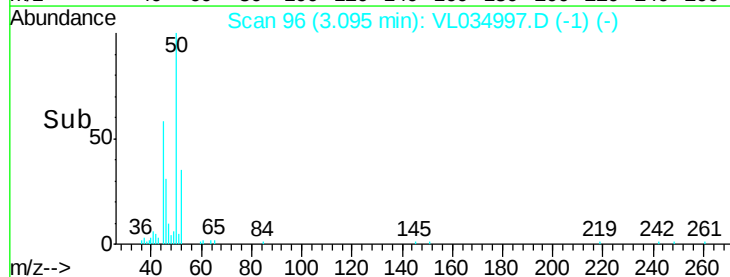
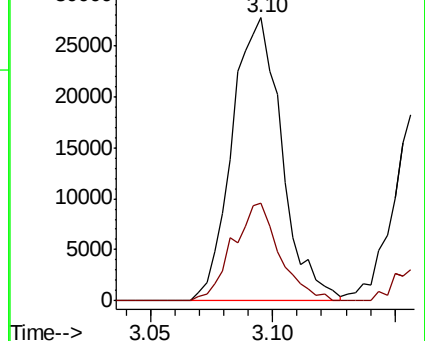
50 100

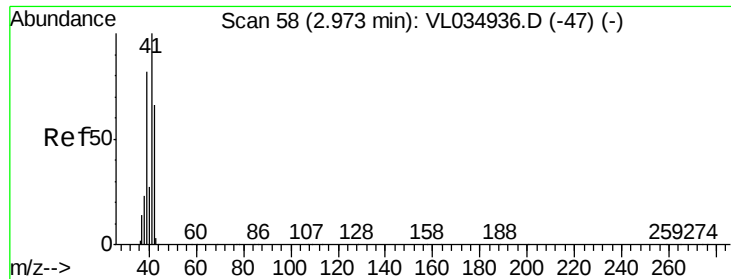
52 34.7 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 5.491 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.01 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

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ClientSampleId :

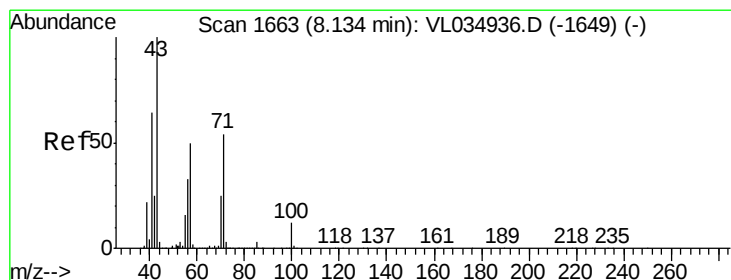
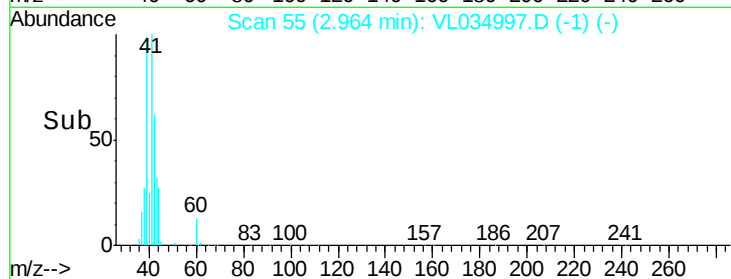
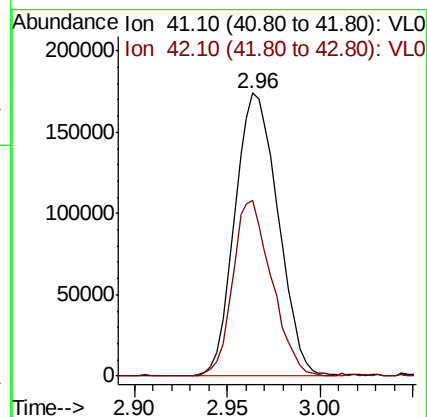
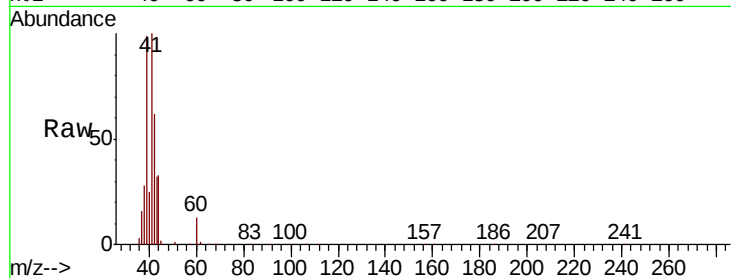
IA-3

Tot Ion: 41 Resp: 281772

Ion Ratio Lower Upper

41 100

42 56.3 54.5 81.7



#10

Heptane

Concen: 3.245 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL034997.D

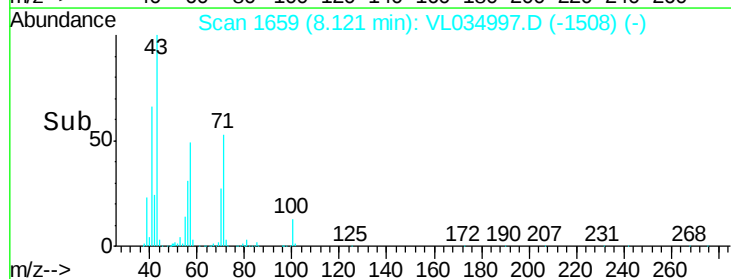
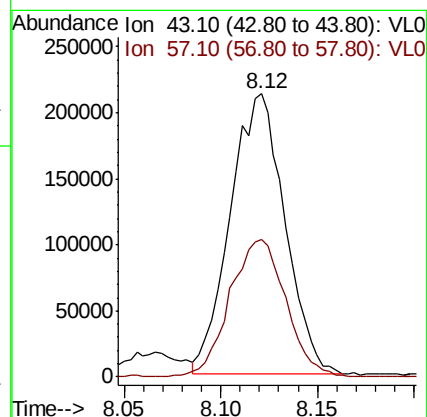
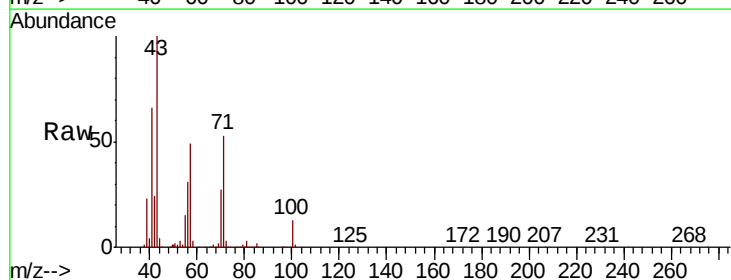
Acq: 12 May 2020 21:38

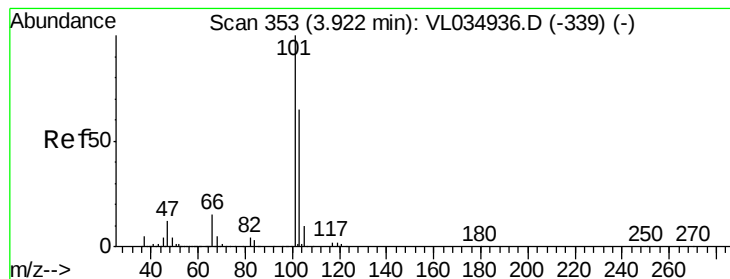
Tgt Ion: 43 Resp: 417222

Ion Ratio Lower Upper

43 100

57 50.6 41.1 61.7





#11

Trichlorofluoromethane

Concen: 0.280 ppbv

RT: 3.91 min Scan# 349

Delta R.T. -0.01 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

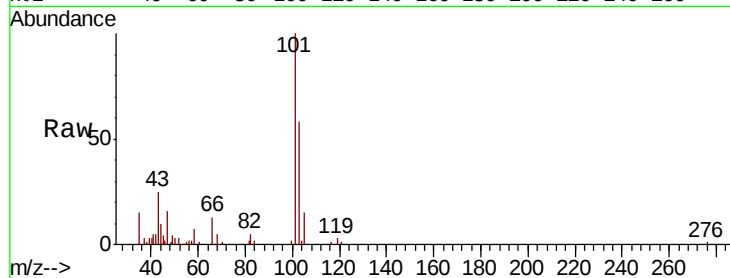
IA-3

Tot Ion:101 Resp: 42385

Ion Ratio Lower Upper

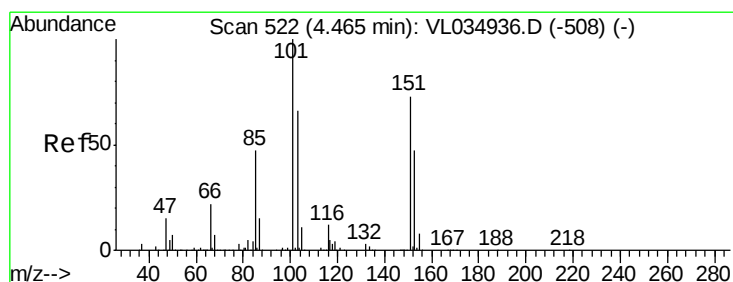
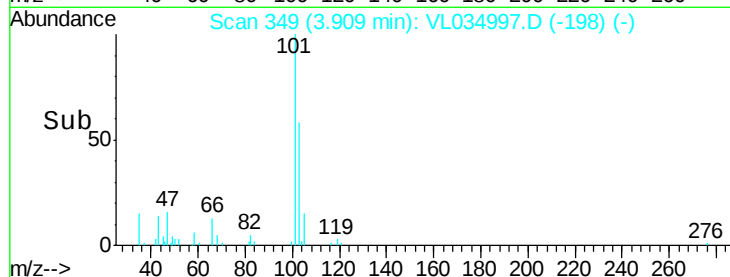
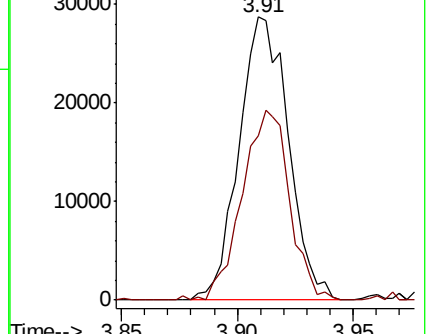
101 100

103 57.8 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.023 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.01 min

Lab File: VL034997.D

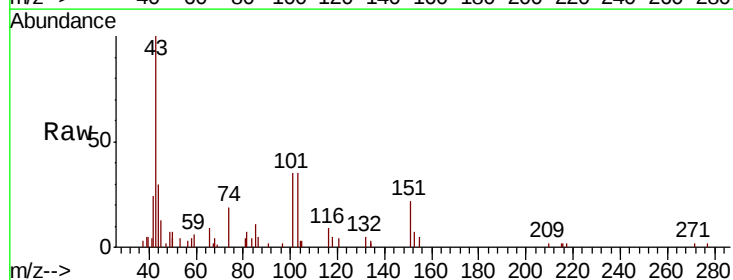
Acq: 12 May 2020 21:38

Tgt Ion:101 Resp: 2476

Ion Ratio Lower Upper

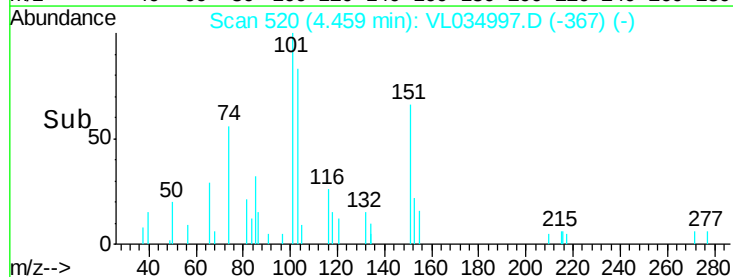
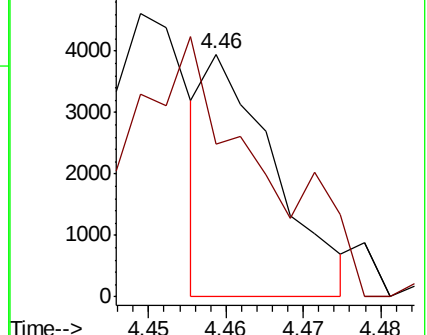
101 100

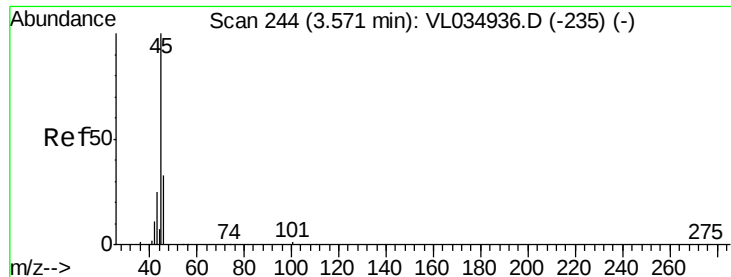
151 245.2 57.6 86.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 49.926 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.03 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

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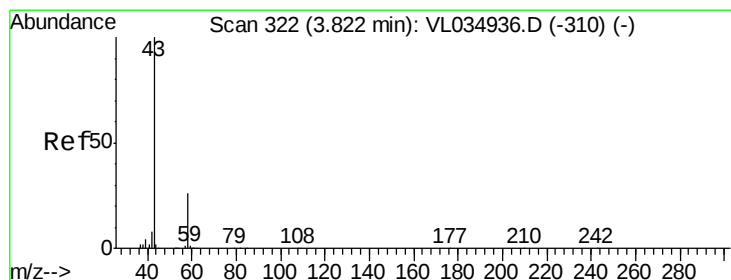
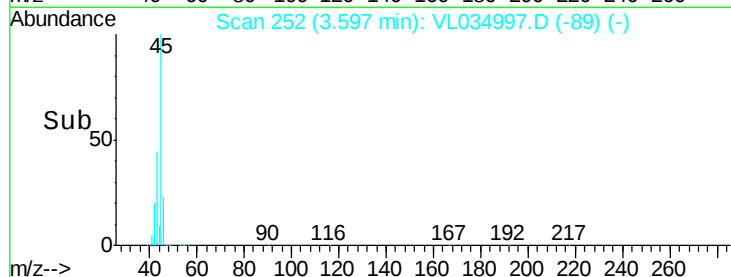
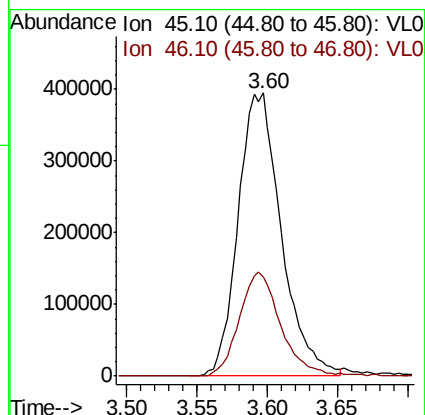
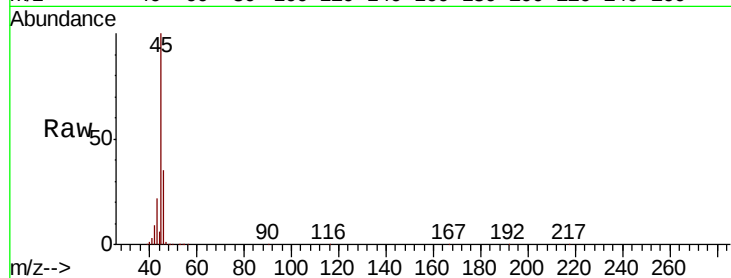
IA-3

Tot Ion: 45 Resp: 845439

Ion Ratio Lower Upper

45 100

46 35.7 14.3 57.3



#15

Acetone

Concen: 40.423 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL034997.D

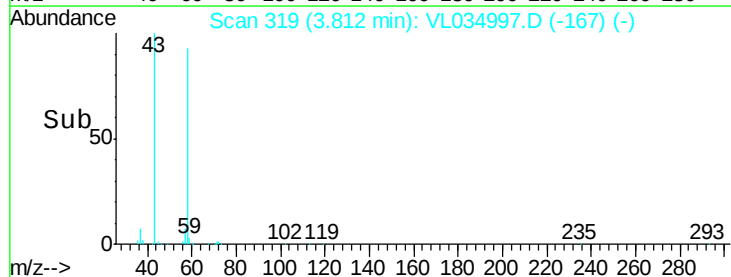
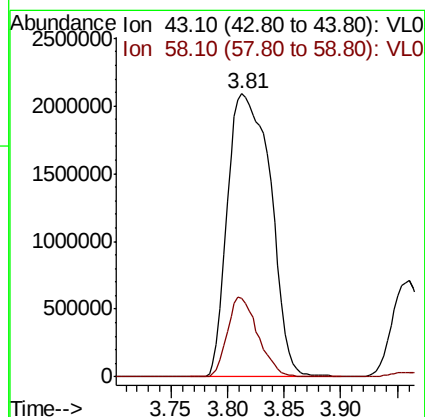
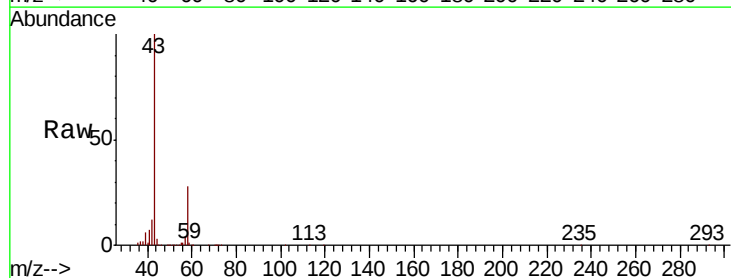
Acq: 12 May 2020 21:38

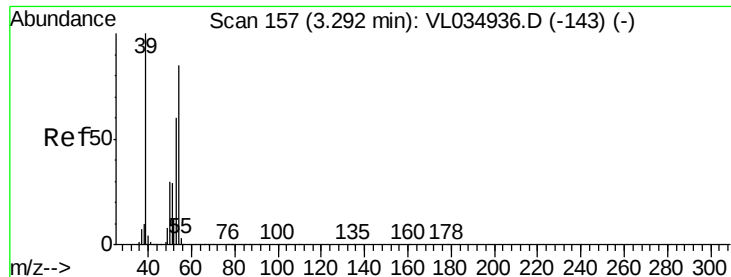
Tgt Ion: 43 Resp: 5535554

Ion Ratio Lower Upper

43 100

58 20.2 21.7 32.5#





#16

1,3-Butadiene

Concen: 2.641 ppbv

RT: 3.26 min Scan# 147

Delta R.T. -0.03 min

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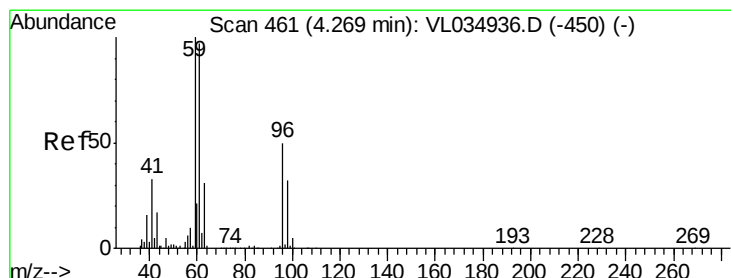
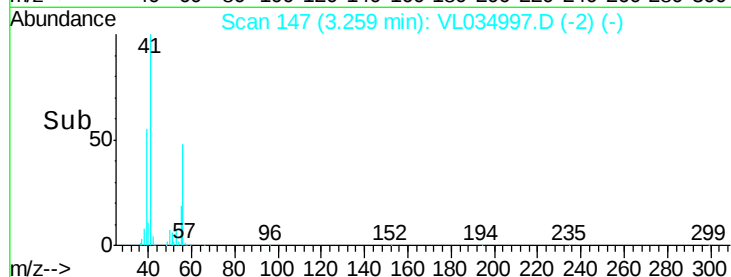
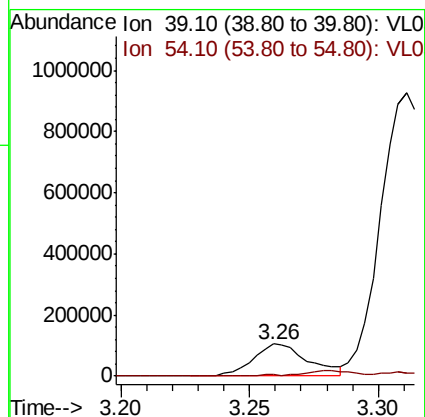
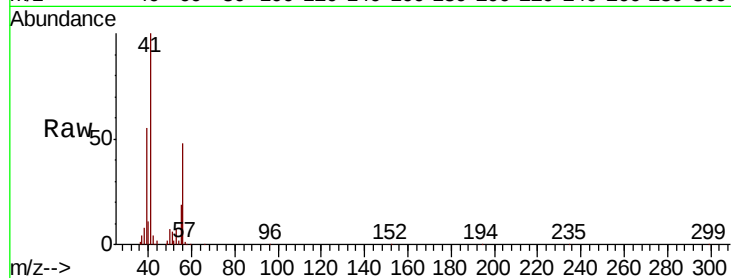
IA-3

Tot Ion: 39 Resp: 155636

Ion Ratio Lower Upper

39 100

54 29.1 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 24.374 ppbv

RT: 4.28 min Scan# 465

Delta R.T. 0.01 min

Lab File: VL034997.D

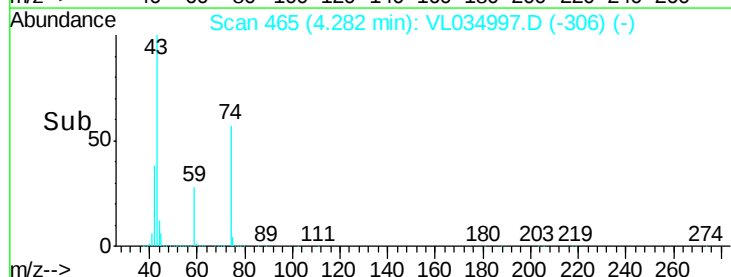
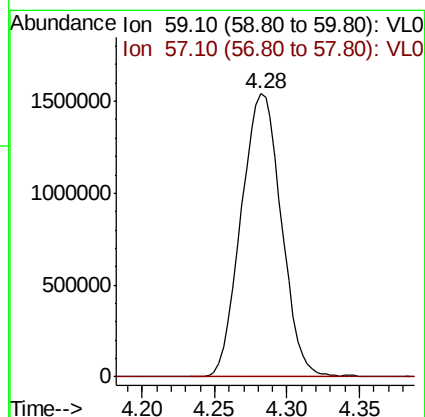
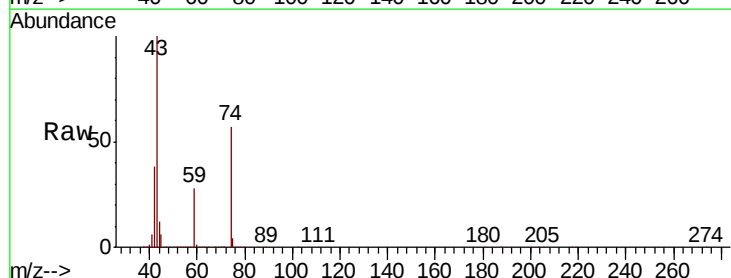
Acq: 12 May 2020 21:38

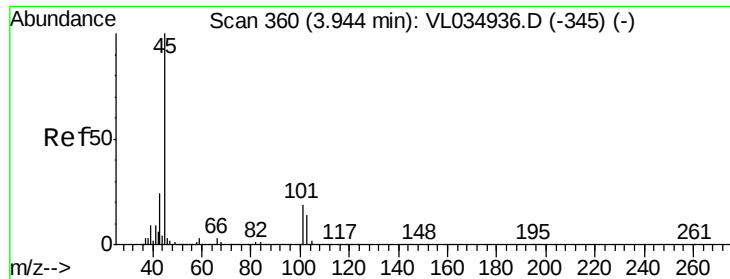
Tgt Ion: 59 Resp: 2969786

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 62.535 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleID :

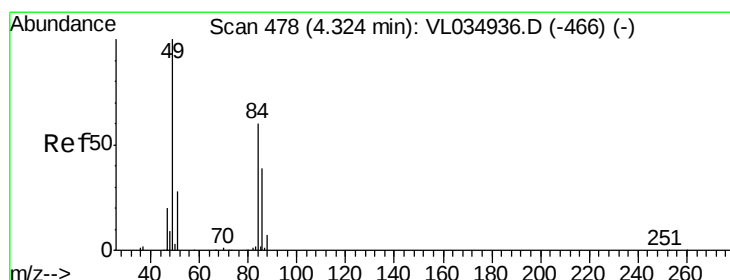
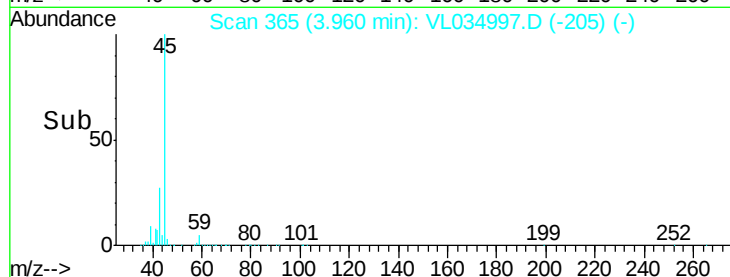
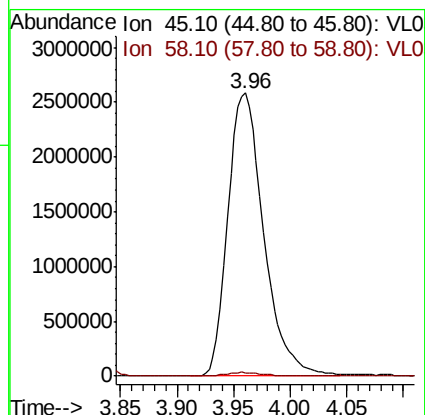
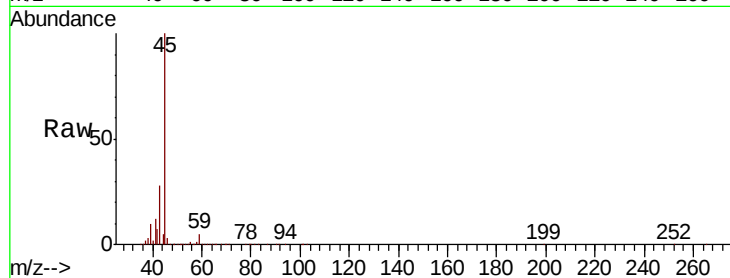
IA-3

Tot Ion: 45 Resp: 5710936

Ion Ratio Lower Upper

45 100

58 1.5 1.7 2.5#



#20

Methylene Chloride

Concen: 3.558 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Tgt Ion: 84 Resp: 161285

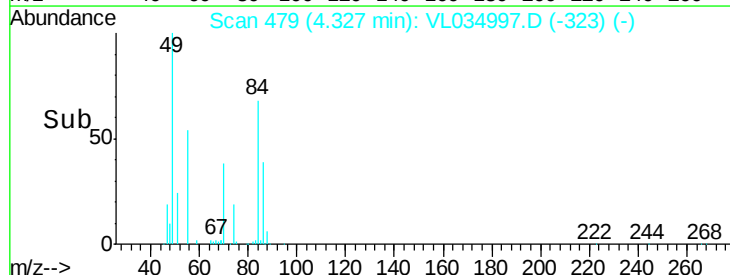
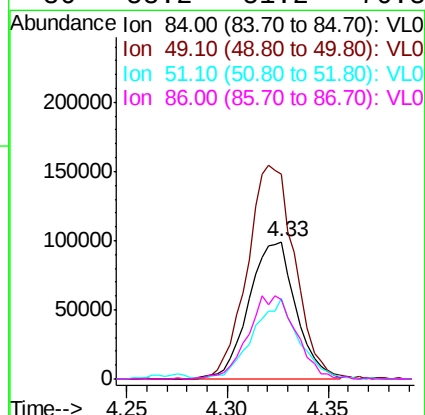
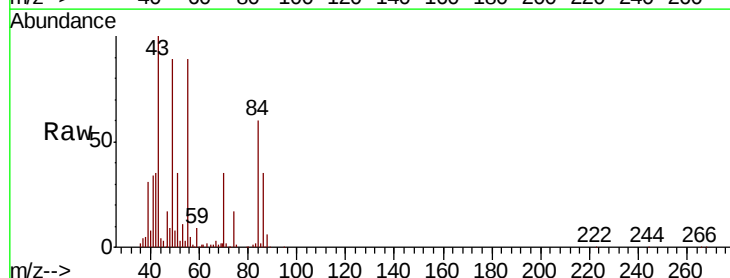
Ion Ratio Lower Upper

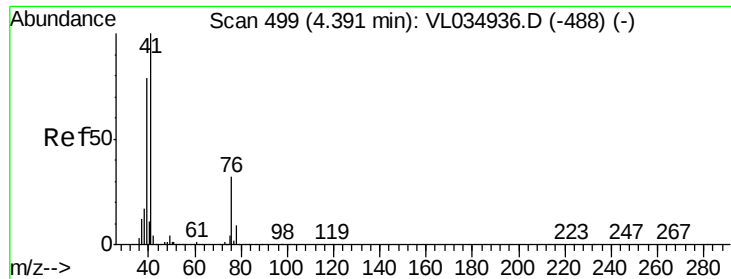
84 100

49 149.4 132.5 198.7

51 58.0 38.4 57.6#

86 58.2 51.2 76.8





#21

Allvl Chloride

Concen: 1.179 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.06 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

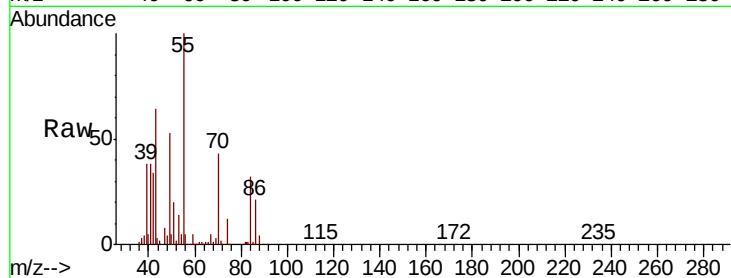
Tot Ion: 41 Resp: 91218

Ion Ratio Lower Upper

41 100

76 0.0 23.6 35.4#

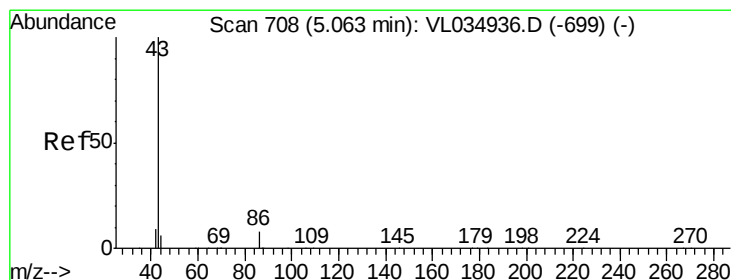
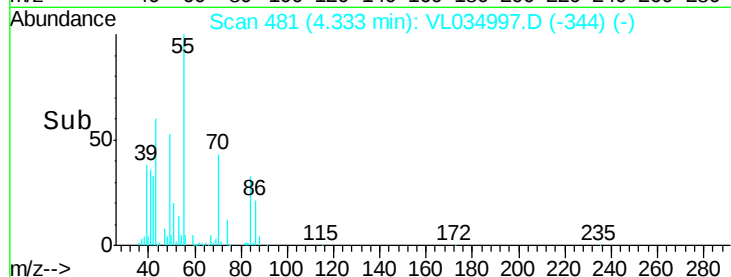
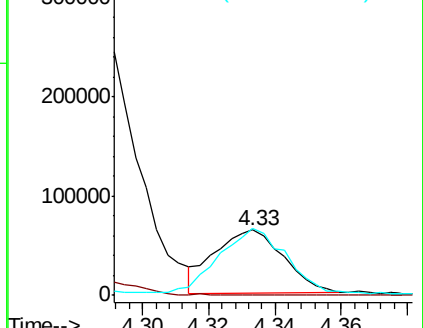
39 112.3 61.9 92.9#



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: 4.554 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Tgt Ion: 43 Resp: 790706

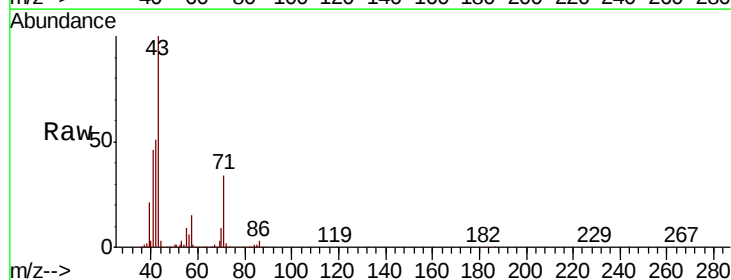
Ion Ratio Lower Upper

43 100

86 2.7 5.5 8.3#

42 50.9 8.0 12.0#

44 3.2 4.5 6.7#

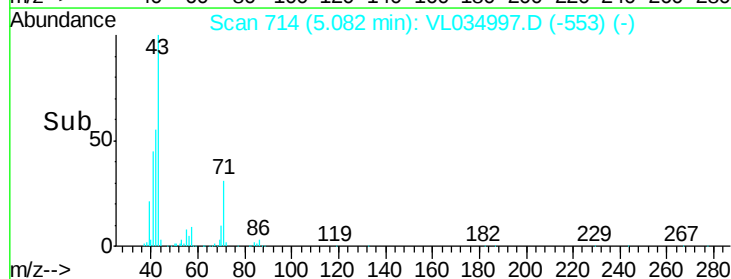
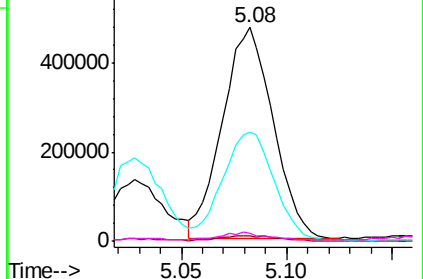


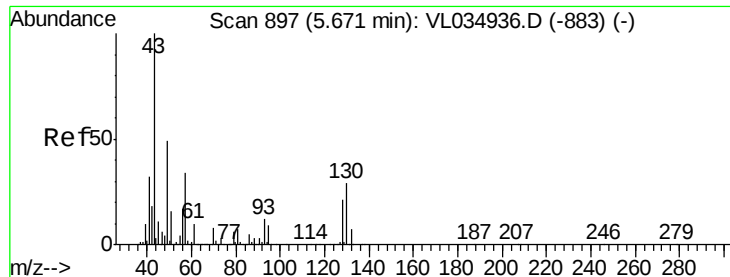
Abundance Ion 43.10 (42.80 to 43.80): VL0

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



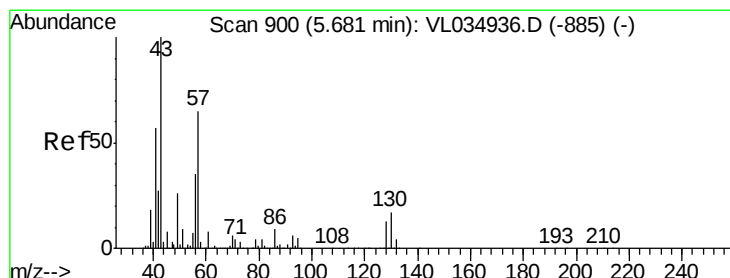
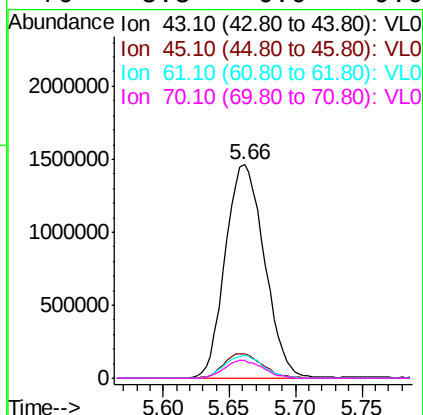
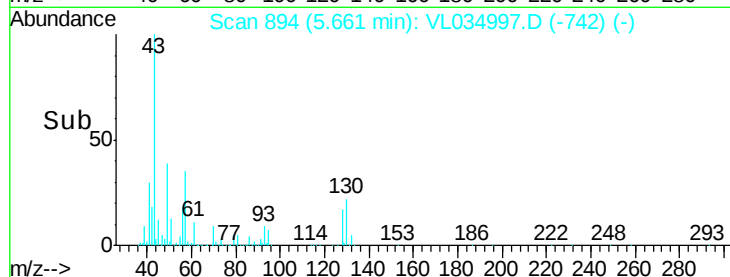
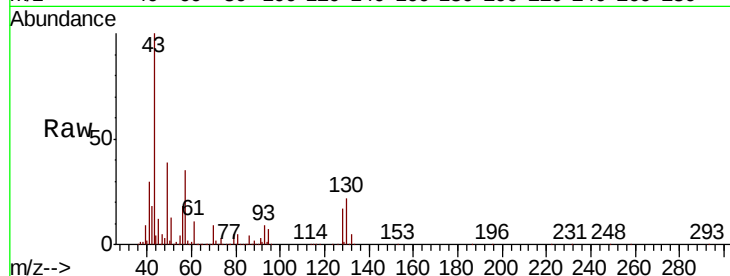


#25
Ethyl Acetate
Concen: 12.968 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tot Ion: 43 Resp: 2982989

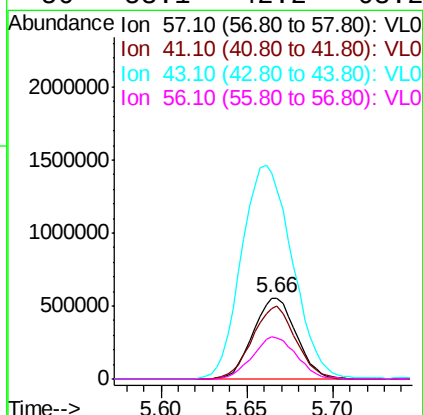
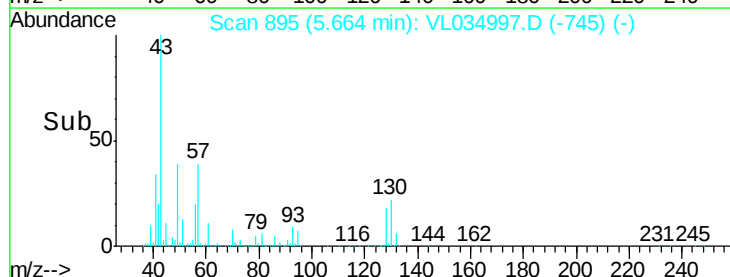
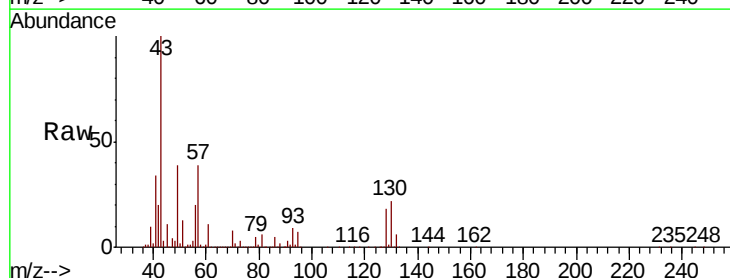
Ion	Ratio	Lower	Upper
43	100		
45	11.6	8.1	12.1
61	10.5	7.8	11.8
70	8.3	6.0	9.0

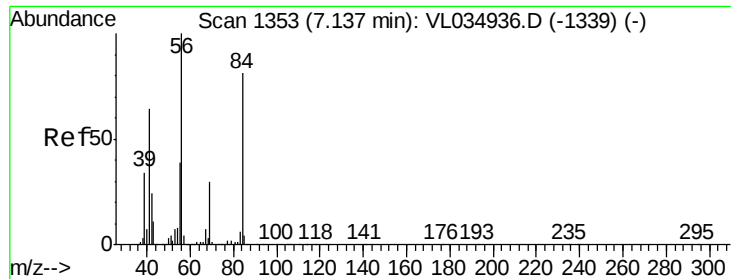


#26
Hexane
Concen: 9.670 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Tgt Ion: 57 Resp: 964332

Ion	Ratio	Lower	Upper
57	100		
41	90.4	72.7	109.1
43	312.6	182.1	273.1#
56	53.1	42.2	63.2

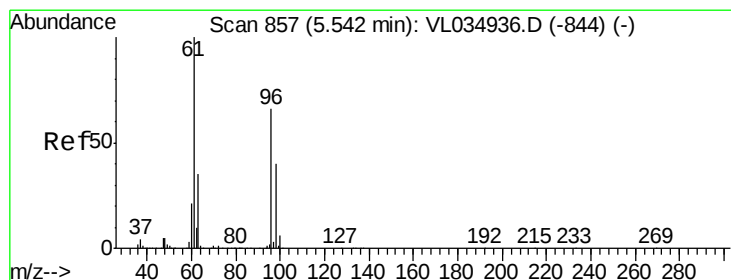
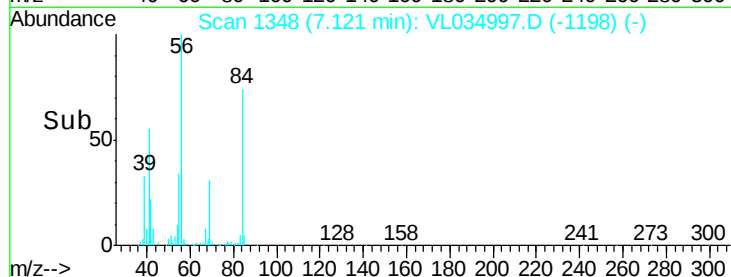
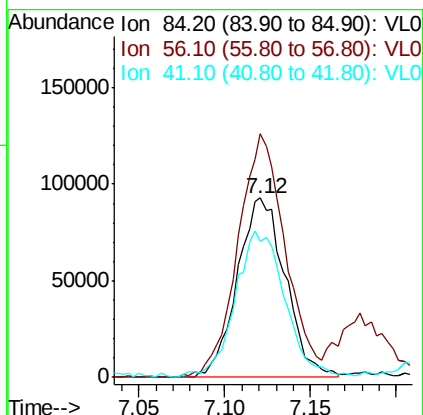
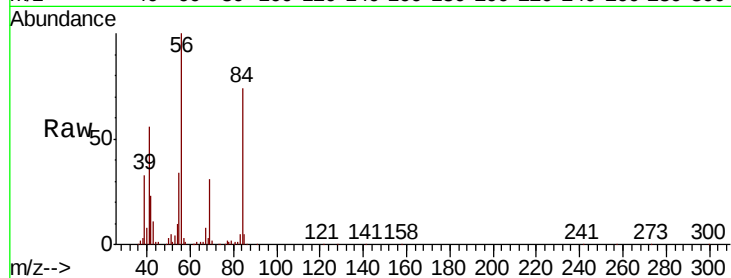




#30
Cvclohexane
Concen: 2.320 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.02 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

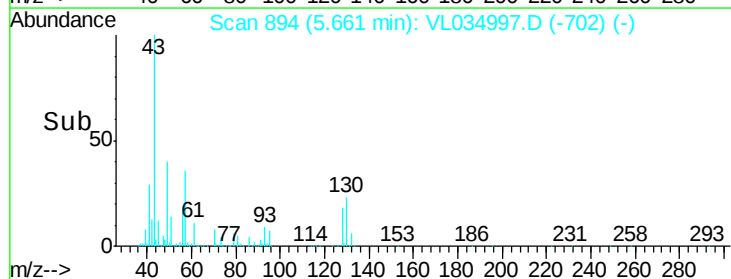
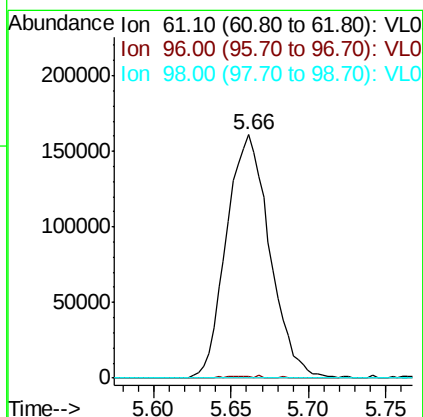
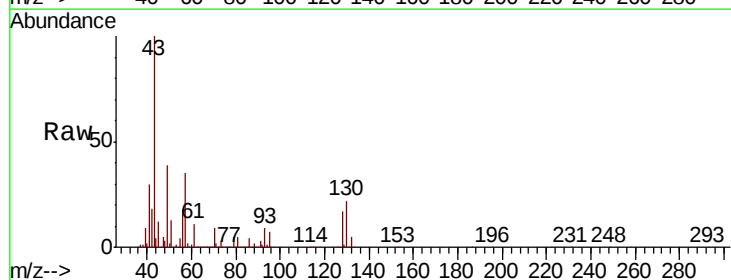
Instrument :
MSVOA_L
ClientSampleId :
IA-3

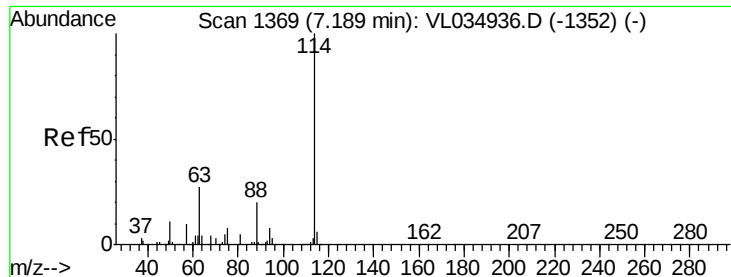
Tot Ion: 84 Resp: 178563
Ion Ratio Lower Upper
84 100
56 132.4 111.4 167.2
41 86.4 66.7 100.1



#31
cis-1,2-Dichloroethene
Concen: 3.219 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.12 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Tgt Ion: 61 Resp: 313211
Ion Ratio Lower Upper
61 100
96 0.8 53.0 79.6#
98 0.0 32.2 48.2#

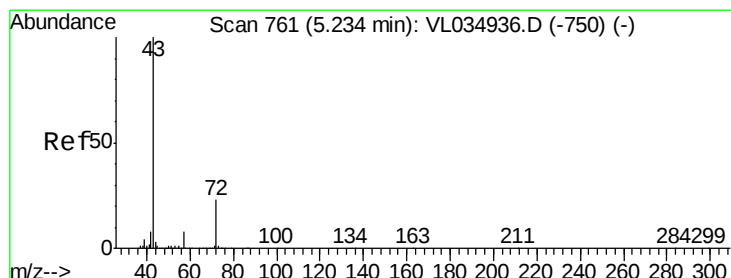
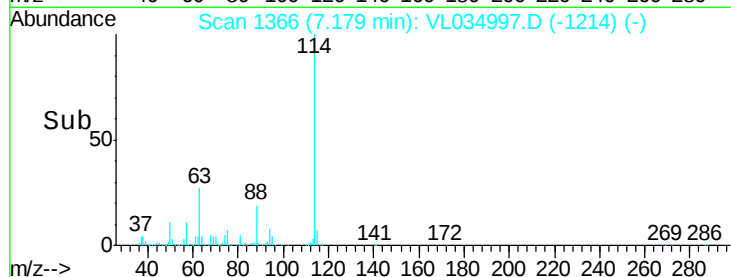
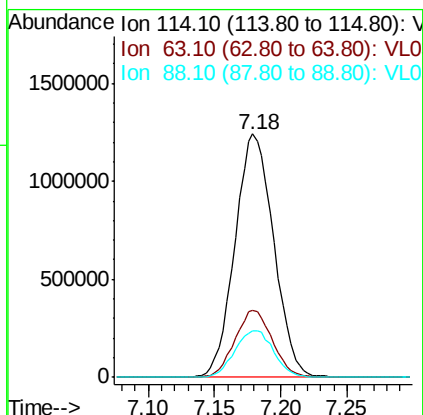
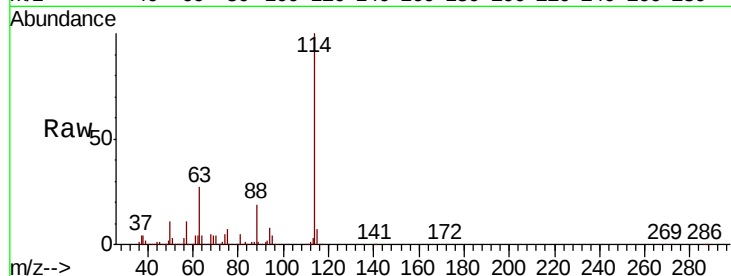




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL034997.D
 Acq: 12 May 2020 21:38

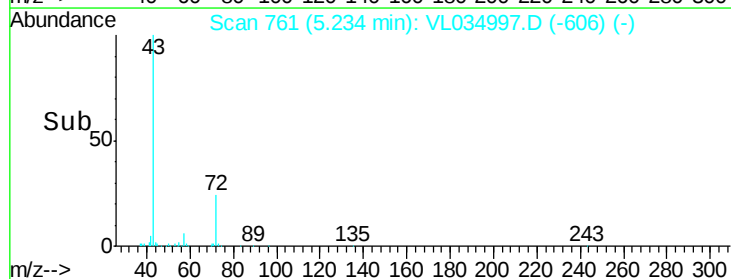
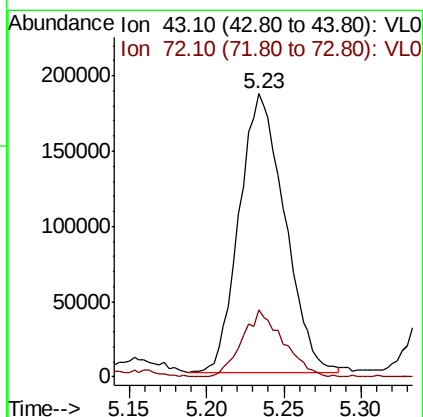
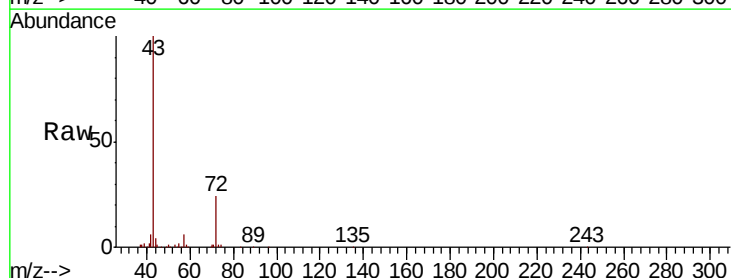
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

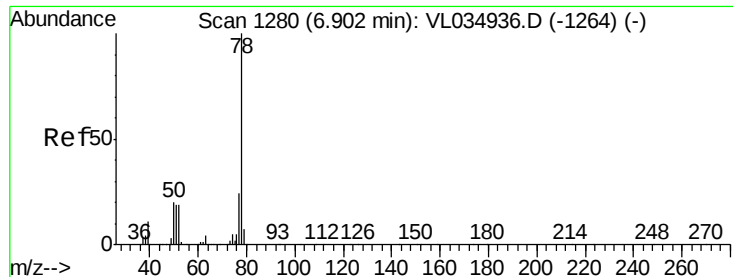
Tot Ion:114 Resp: 2521935
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.2 33.4
 88 19.2 15.5 23.3



#34
 2-Butanone
 Concen: 2.409 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034997.D
 Acq: 12 May 2020 21:38

Tgt Ion: 43 Resp: 377634
 Ion Ratio Lower Upper
 43 100
 72 22.2 18.0 27.0

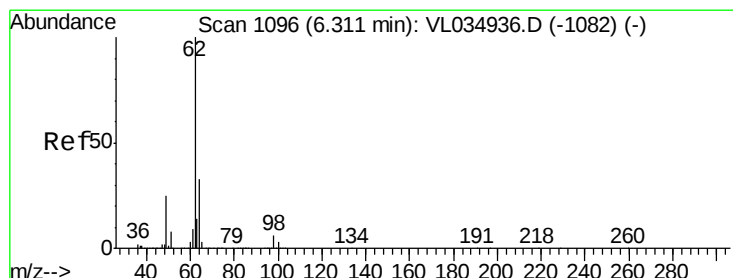
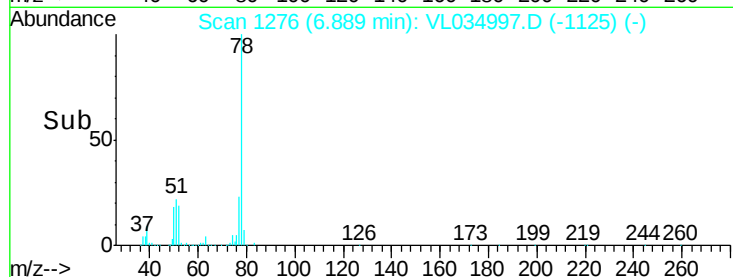
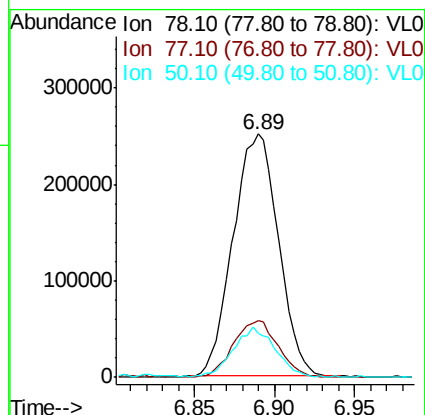
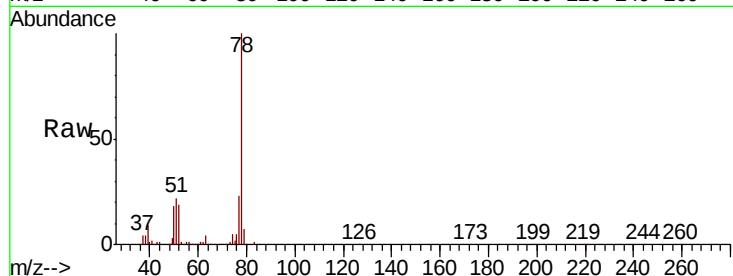




#36
Benzene
Concen: 2.328 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

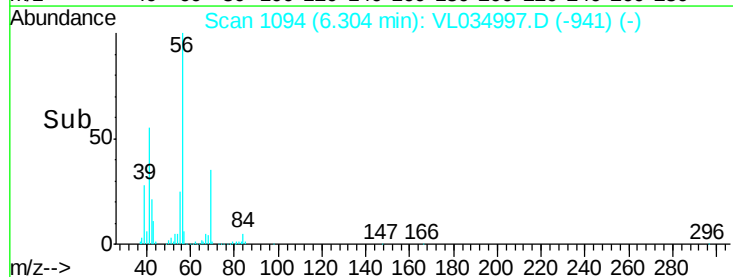
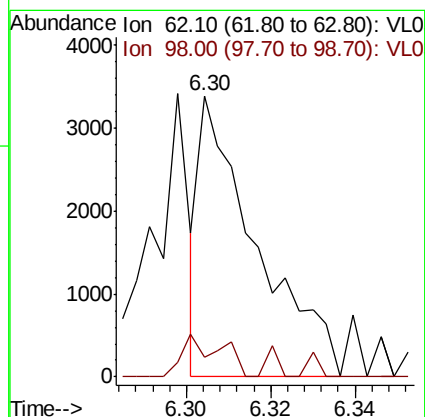
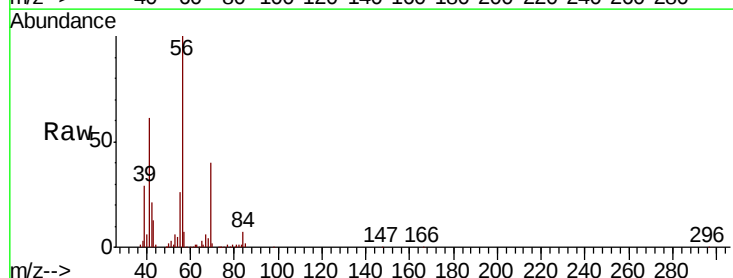
Instrument :
MSVOA_L
ClientSampleId :
IA-3

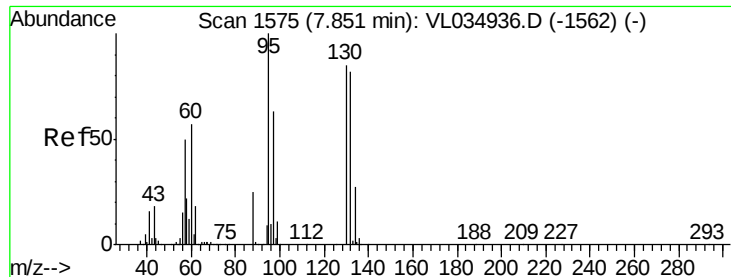
Tot Ion: 78 Resp: 484058
Ion Ratio Lower Upper
78 100
77 23.4 19.0 28.6
50 17.9 15.8 23.8



#37
1,2-Dichloroethane
Concen: 0.025 ppbv
RT: 6.30 min Scan# 1094
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Tgt Ion: 62 Resp: 3171
Ion Ratio Lower Upper
62 100
98 12.4 4.8 7.2#





#38

Trichloroethene

Concen: 0.156 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:130 Resp: 12601

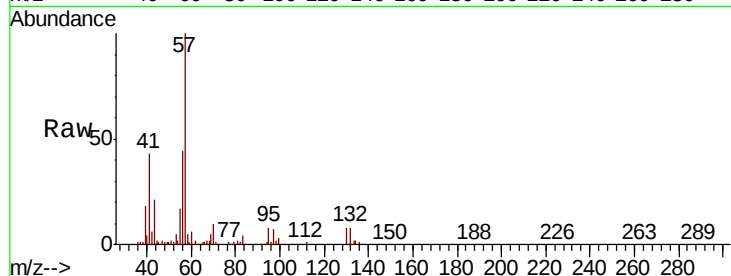
Ion Ratio Lower Upper

130 100

95 89.6 93.4 140.0#

132 92.7 76.4 114.6

97 70.0 58.5 87.7

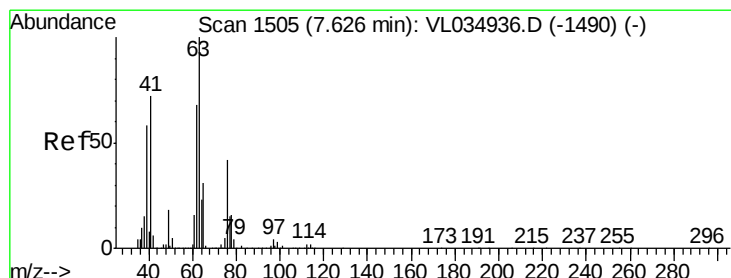
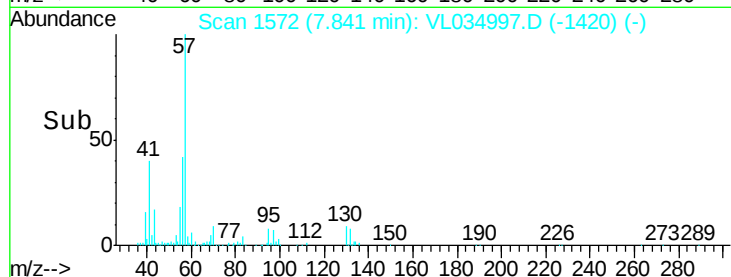
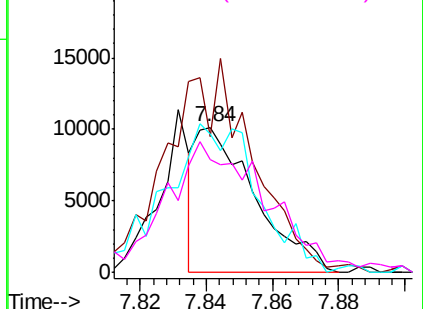


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.036 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

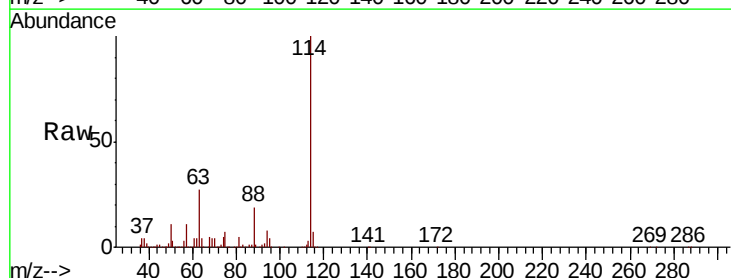
Tgt Ion: 63 Resp: 669801

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

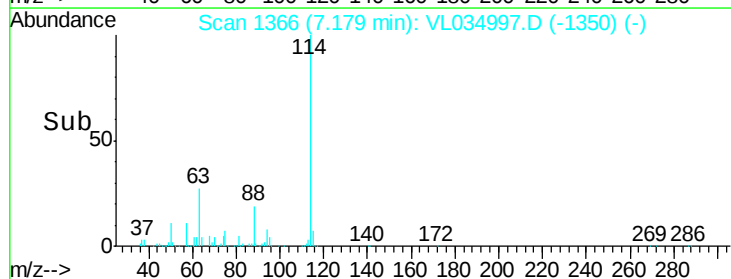
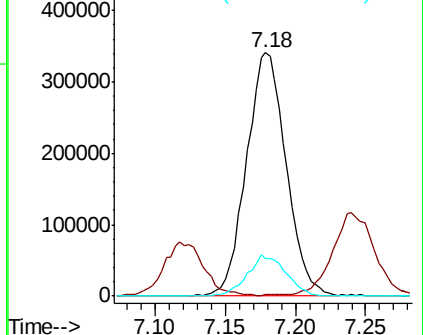
62 15.1 54.2 81.2#

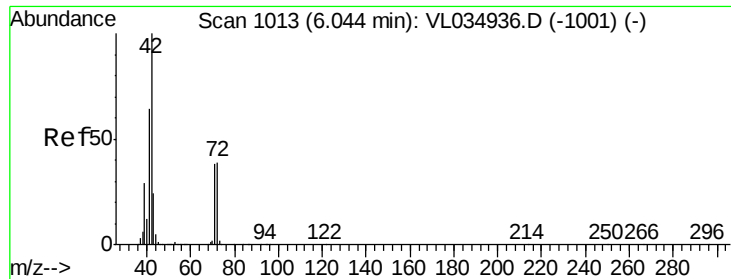


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 8.364 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

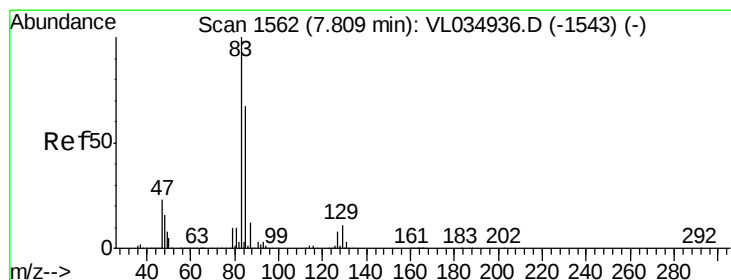
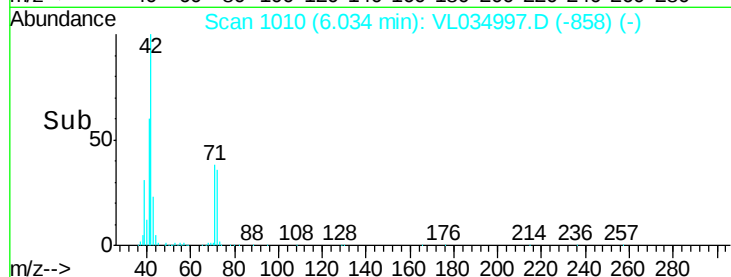
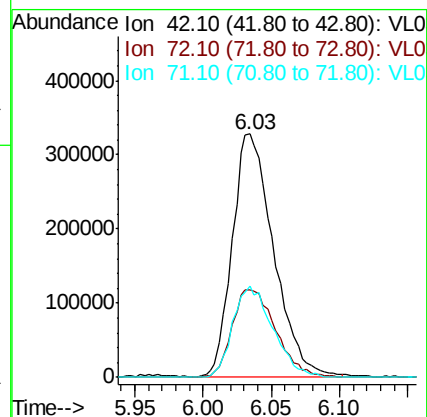
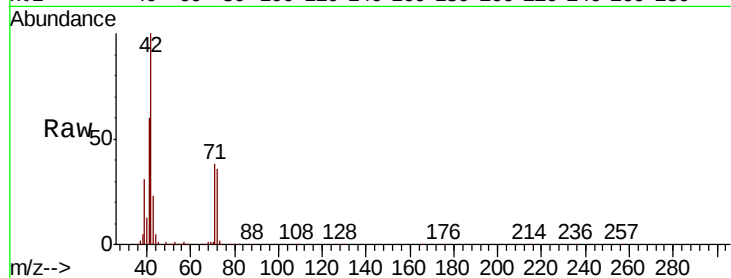
Tot Ion: 42 Resp: 690233

Ion Ratio Lower Upper

42 100

72 38.4 31.4 47.0

71 36.7 29.8 44.8



#42

Bromodichloromethane

Concen: 0.034 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

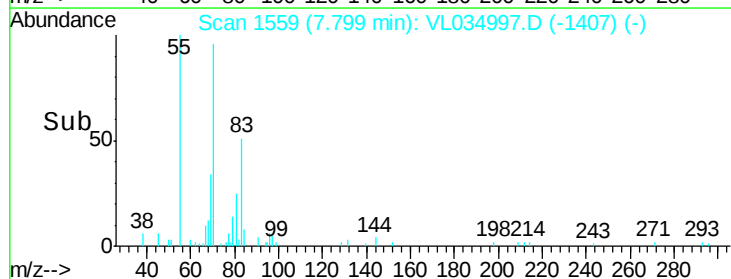
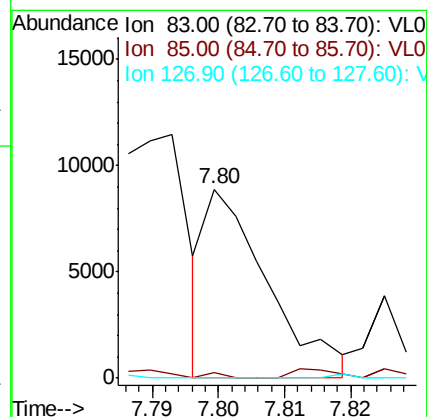
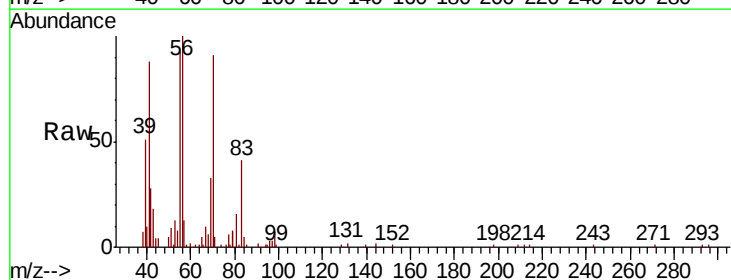
Tgt Ion: 83 Resp: 5810

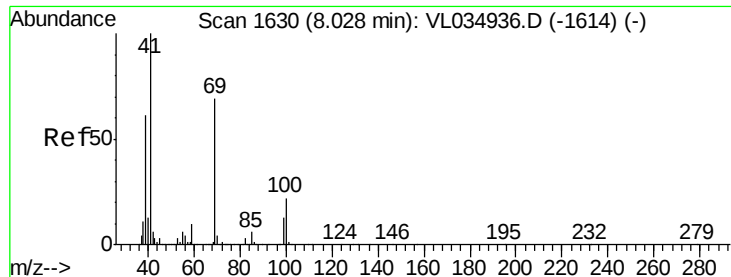
Ion Ratio Lower Upper

83 100

85 3.0 53.4 80.0#

127 0.0 6.1 9.1#

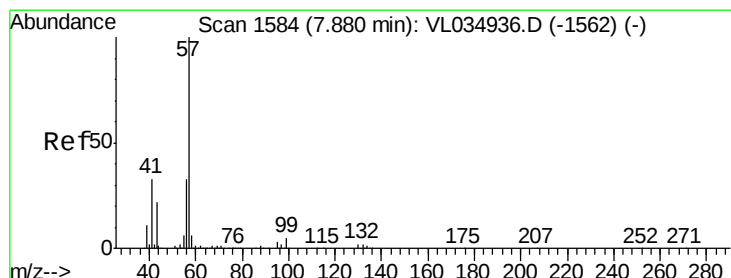
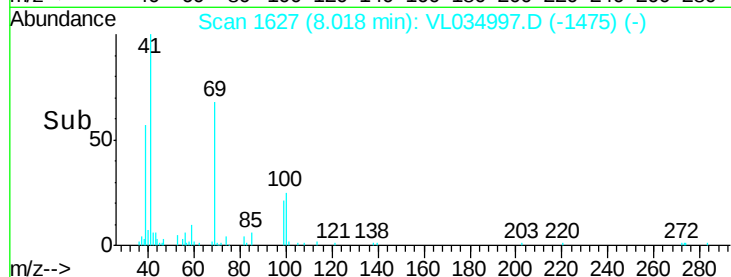
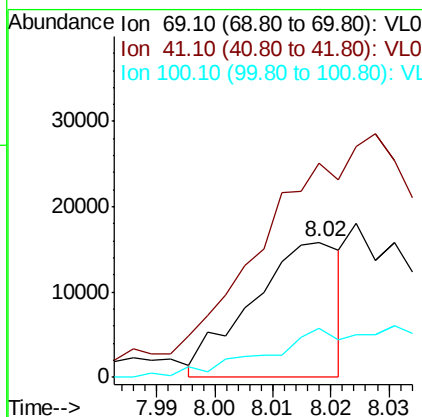
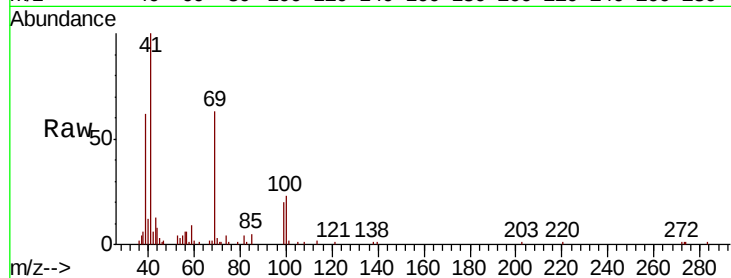




#43
Methvl Methacrilate
Concen: 0.193 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

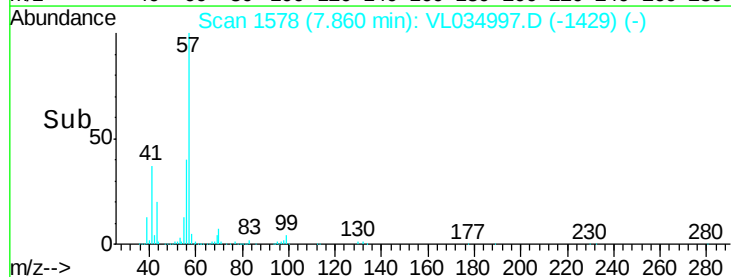
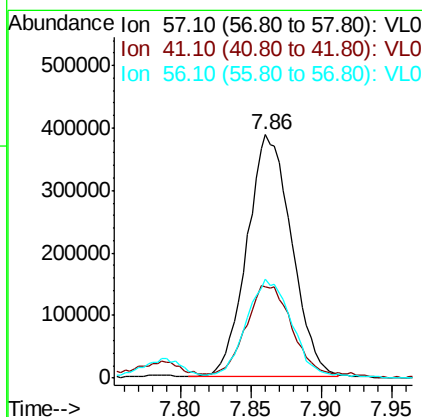
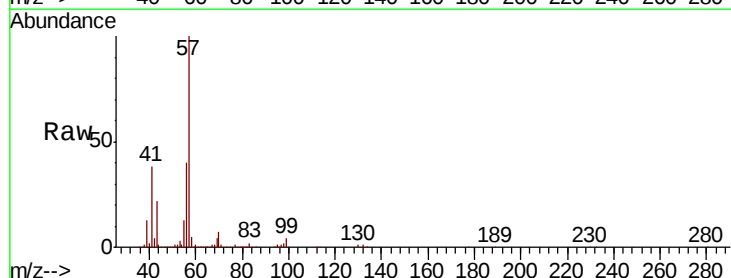
Instrument :
MSVOA_L
ClientSampleId :
IA-3

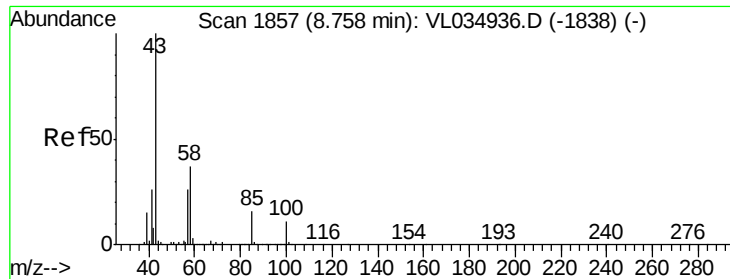
Tot Ion: 69 Resp: 16954
Ion Ratio Lower Upper
69 100
41 0.0 119.8 179.6#
100 0.0 25.0 37.6#



#44
2,2,4-Trimethylpentane
Concen: 2.314 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. -0.02 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Tgt Ion: 57 Resp: 855521
Ion Ratio Lower Upper
57 100
41 41.0 26.4 39.6#
56 42.1 25.5 38.3#





#50

4-Methyl-2-Pentanone

Concen: 0.479 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. -0.00 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampled :

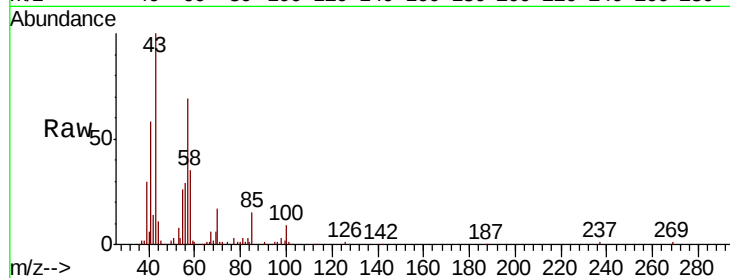
IA-3

Tot Ion: 43 Resp: 106972

Ion Ratio Lower Upper

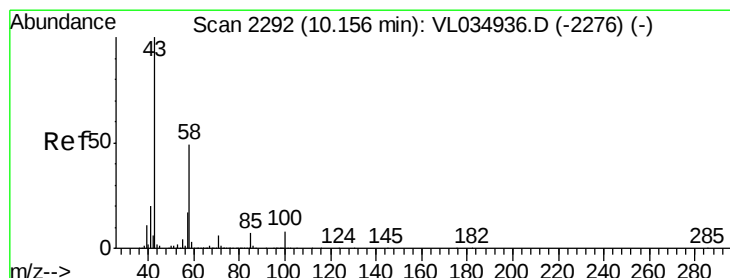
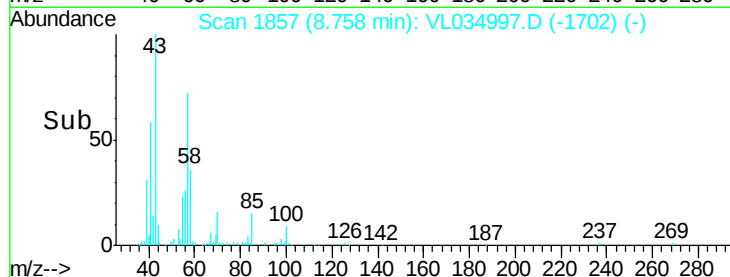
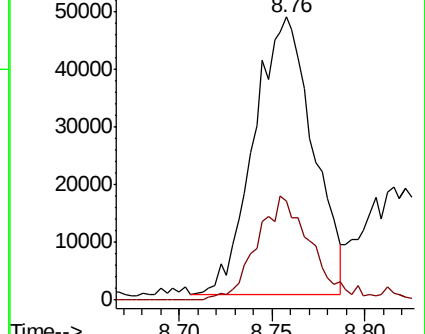
43 100

58 36.9 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#51

2-Hexanone

Concen: 1.286 ppbv

RT: 10.12 min Scan# 2280

Delta R.T. -0.04 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

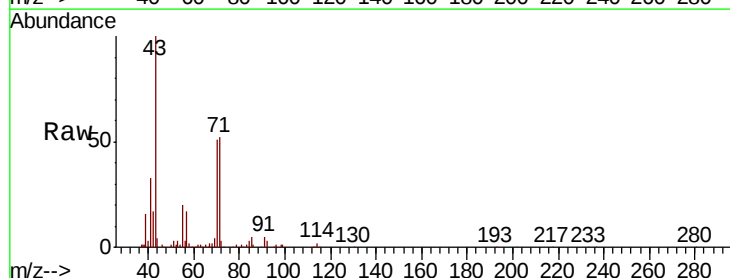
Tgt Ion: 43 Resp: 224879

Ion Ratio Lower Upper

43 100

58 1.6 39.1 58.7#

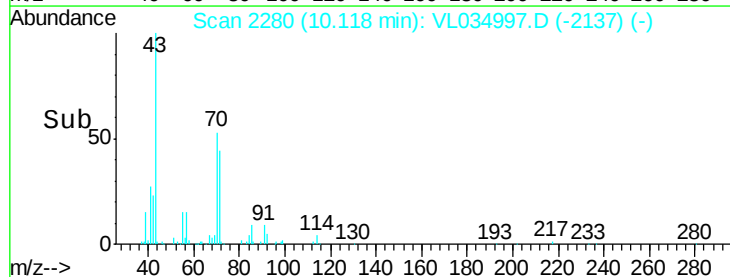
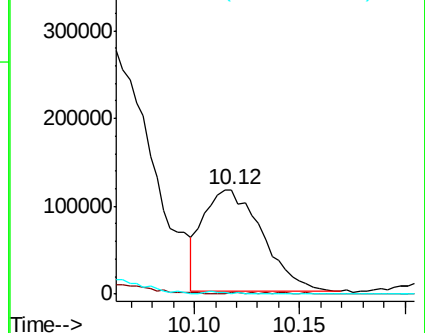
98 0.0 0.3 0.5#

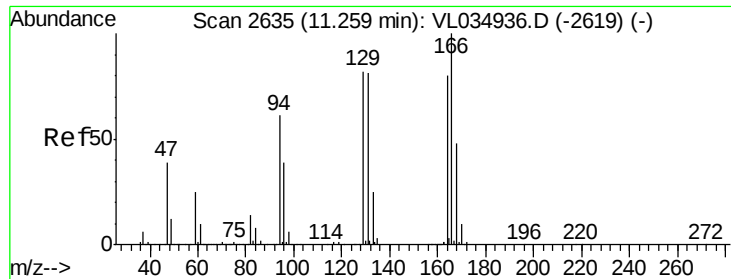


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 0.845 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. -0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:164 Resp: 62467

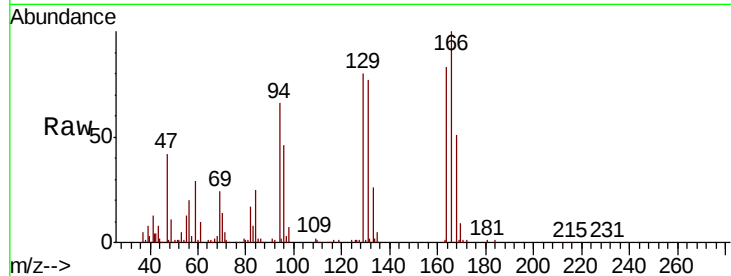
Ion Ratio Lower Upper

164 100

166 119.6 100.7 151.1

129 96.7 83.0 124.4

131 92.3 81.0 121.4

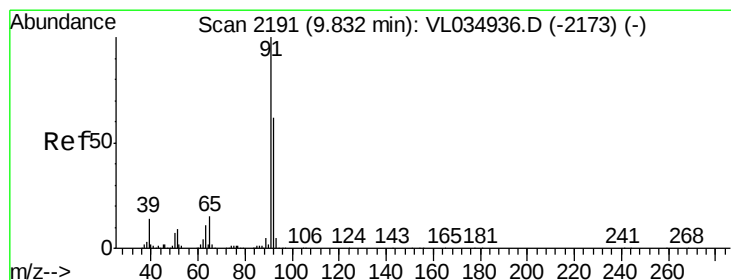
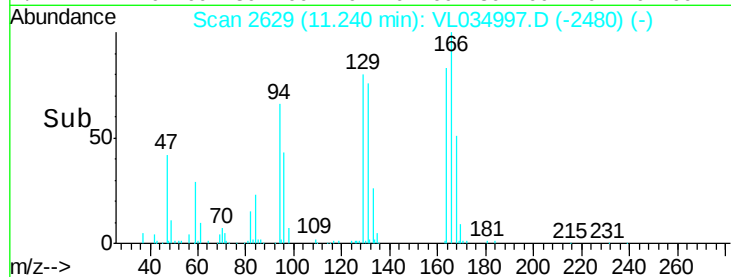
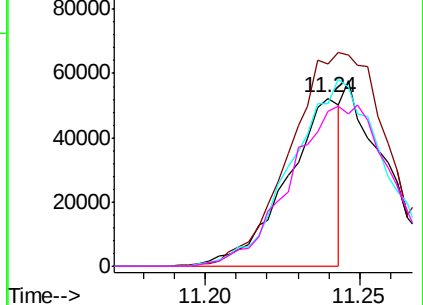


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 96.452 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VL034997.D

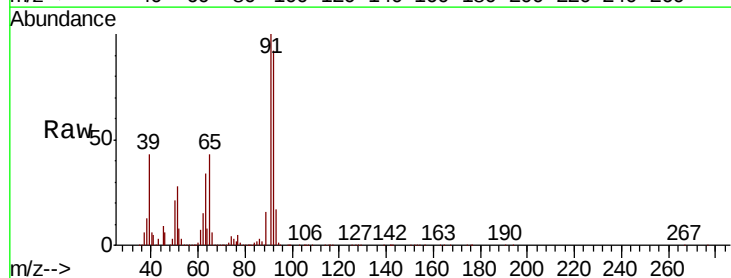
Acq: 12 May 2020 21:38

Tgt Ion: 91 Resp:21259403

Ion Ratio Lower Upper

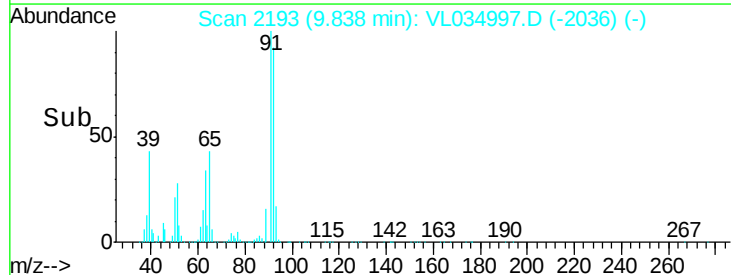
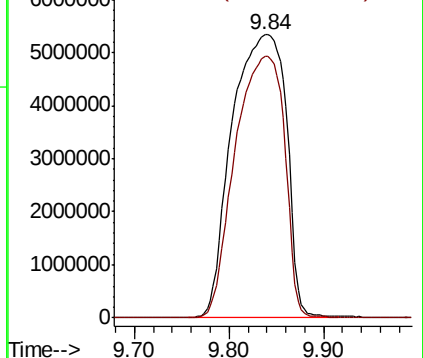
91 100

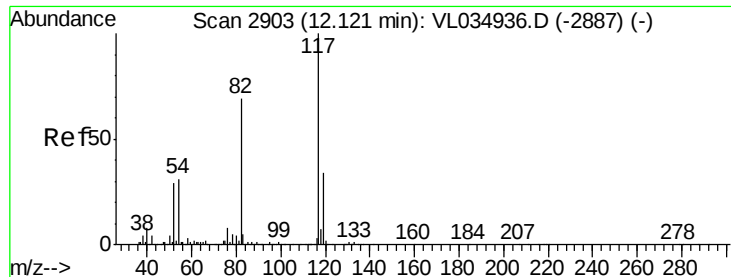
92 84.3 48.6 73.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

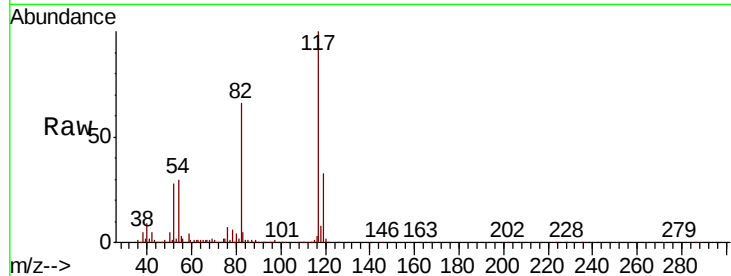




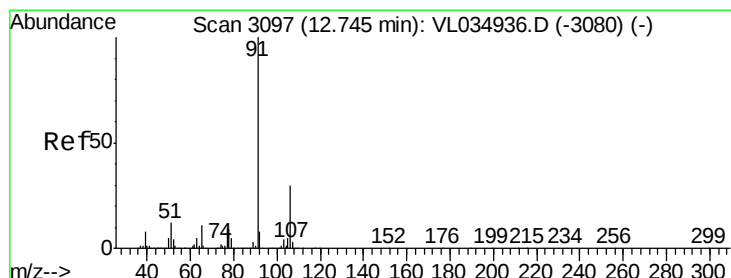
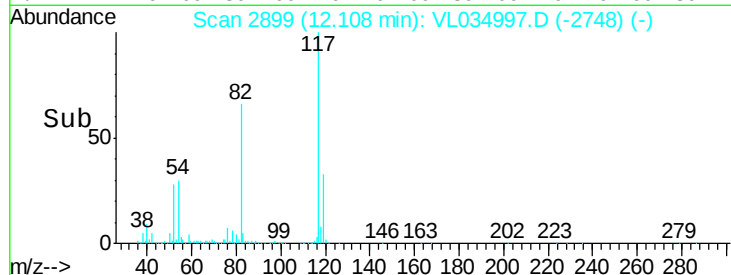
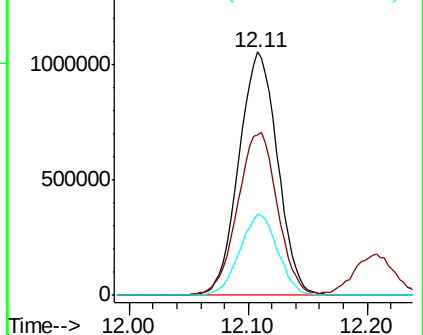
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Instrument :
MSVOA_L
ClientSampled :
IA-3

Tot Ion:117 Resp: 2374691
Ion Ratio Lower Upper
117 100
82 69.0 53.1 79.7
119 32.7 26.7 40.1

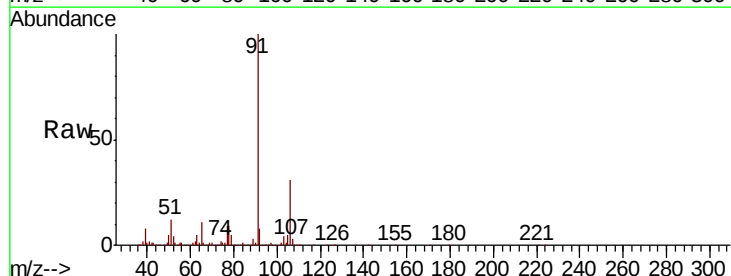


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

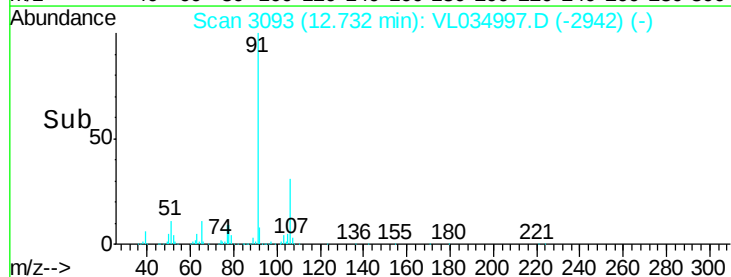
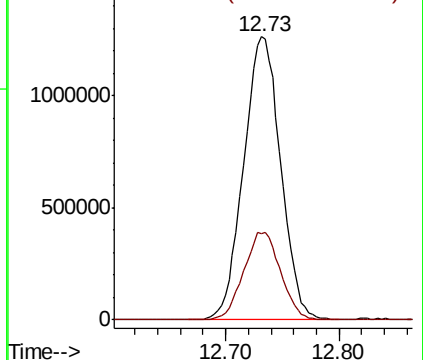


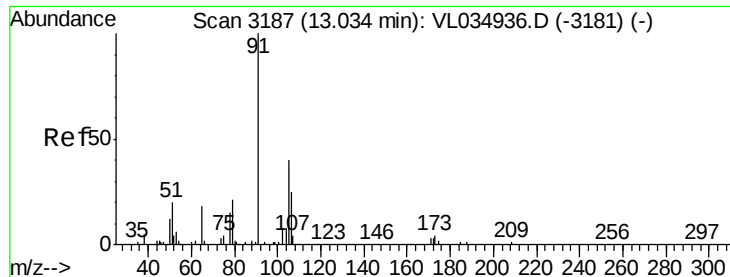
#58
Ethyl Benzene
Concen: 9.772 ppbv
RT: 12.73 min Scan# 3093
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Tgt Ion: 91 Resp: 2869666
Ion Ratio Lower Upper
91 100
106 30.6 24.2 36.4



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

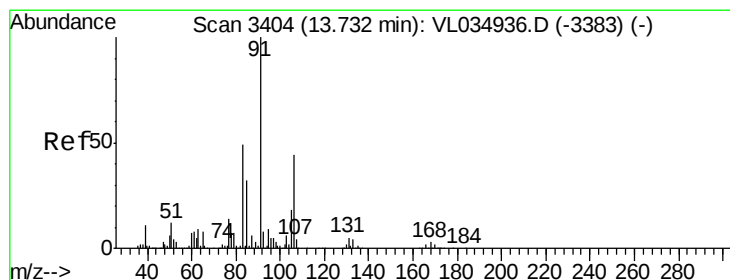
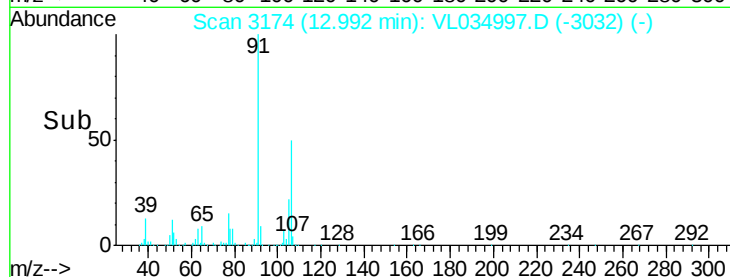
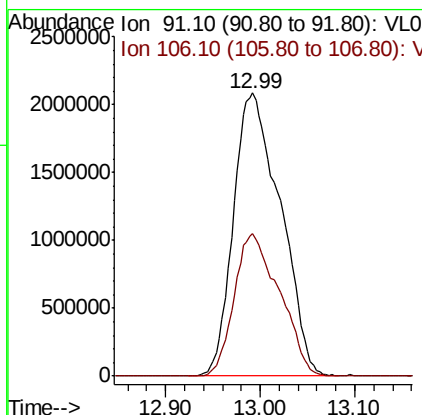
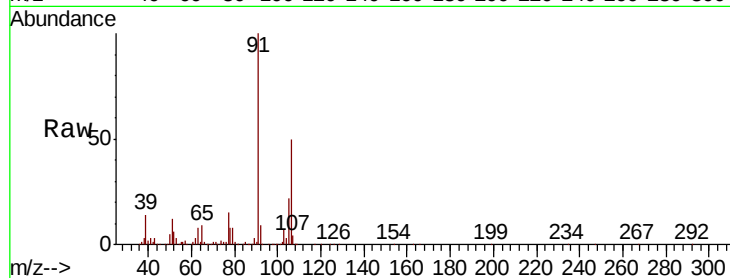




#59
m/p-Xylene
Concen: 27.711 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.04 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

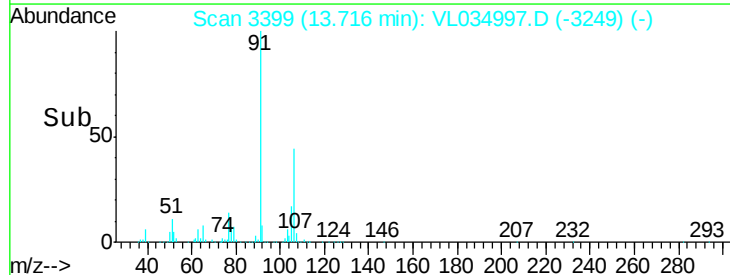
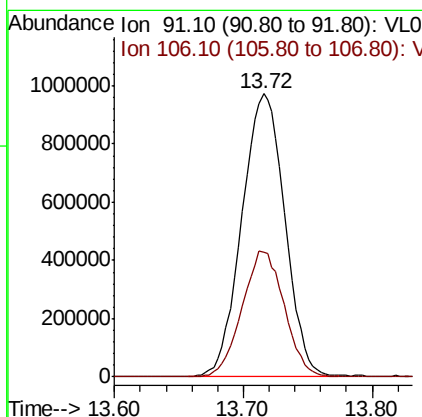
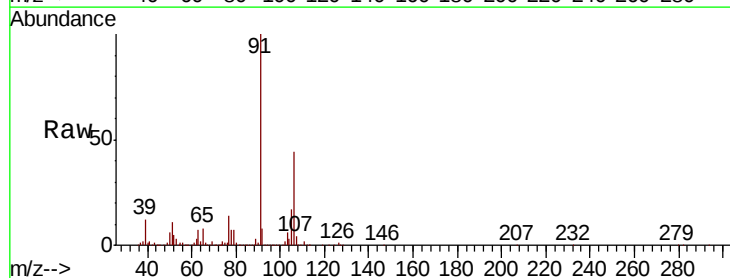
Instrument :
MSVOA_L
ClientSampleId :
IA-3

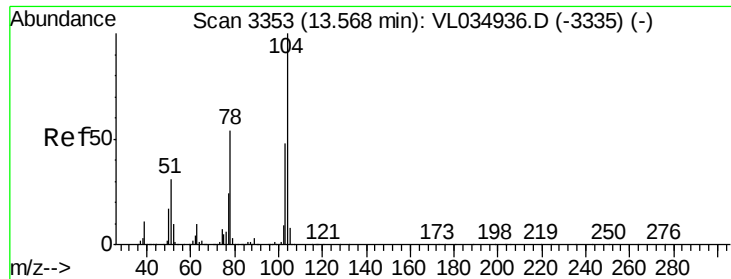
Tot Ion: 91 Resp: 7159577
Ion Ratio Lower Upper
91 100
106 48.7 66.0 99.0#



#60
o-Xylene
Concen: 8.815 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.02 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Tgt Ion: 91 Resp: 2247288
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.5

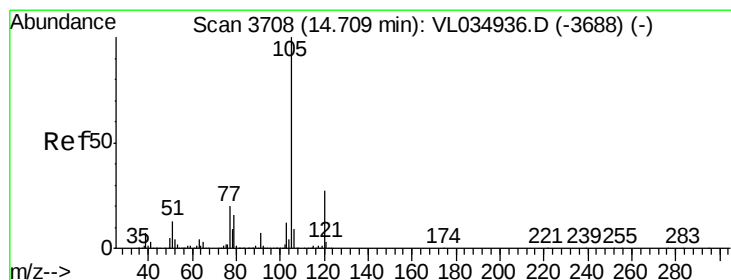
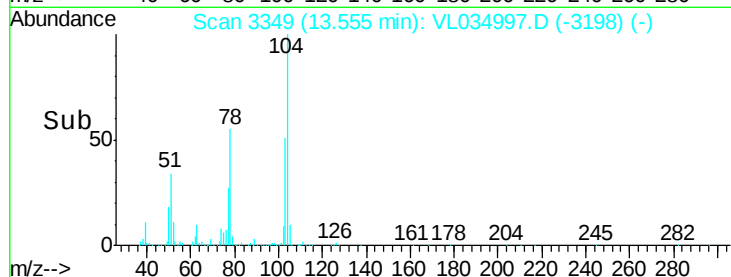
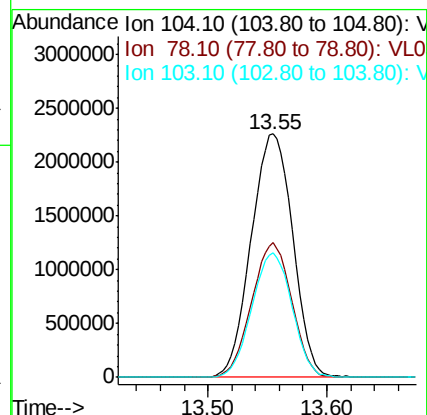
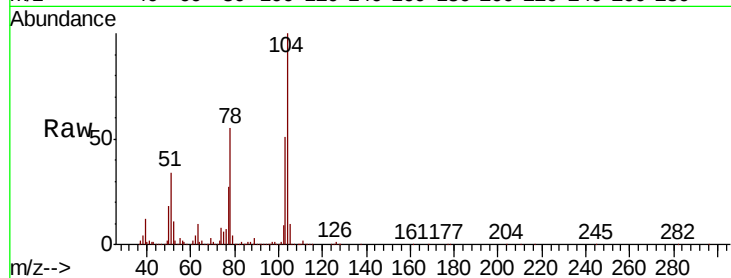




#61
Stvrene
Concen: 33.949 ppbv
RT: 13.55 min Scan# 3349
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

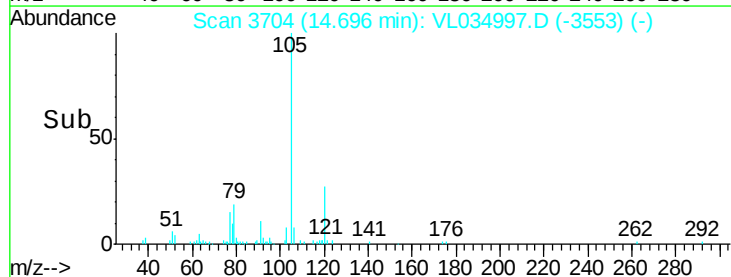
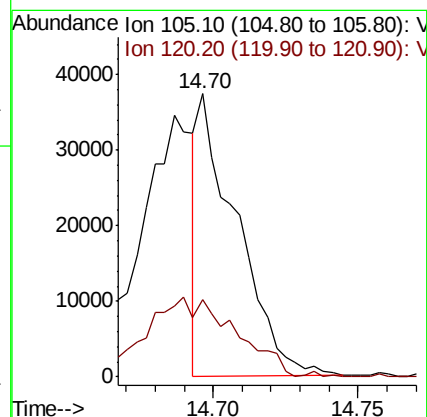
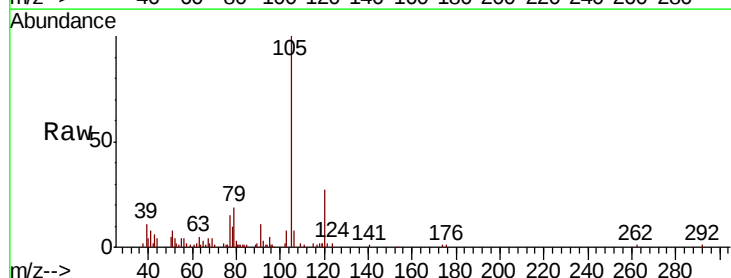
Instrument :
MSVOA_L
ClientSampleId :
IA-3

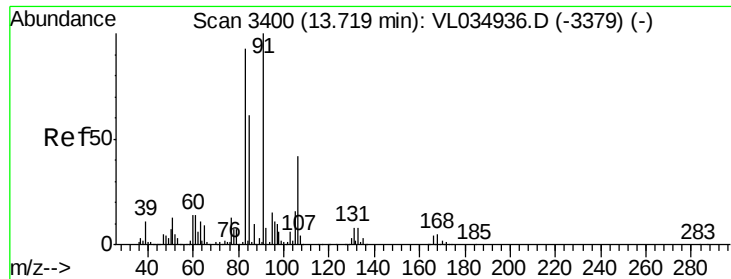
Tot Ion:104 Resp: 5477430
Ion Ratio Lower Upper
104 100
78 53.5 43.7 65.5
103 49.6 38.8 58.2



#62
Isopropylbenzene
Concen: 0.090 ppbv
RT: 14.70 min Scan# 3704
Delta R.T. -0.01 min
Lab File: VL034997.D
Acq: 12 May 2020 21:38

Tgt Ion:105 Resp: 34317
Ion Ratio Lower Upper
105 100
120 0.0 20.6 31.0#

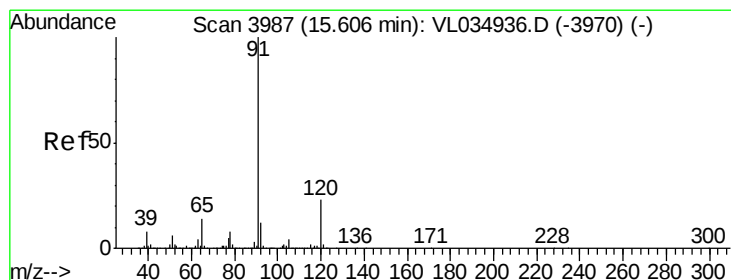
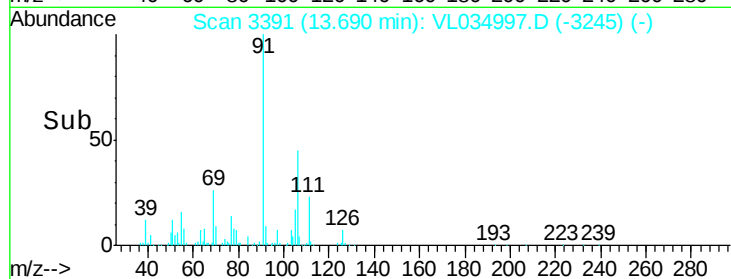
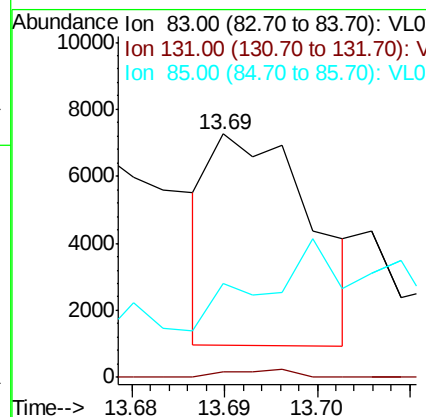
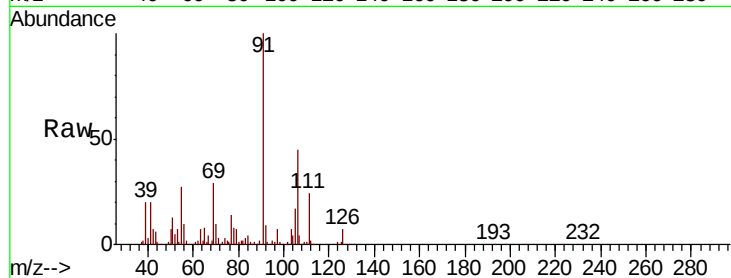




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.024 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. -0.03 min
 Lab File: VL034997.D
 Acq: 12 May 2020 21:38

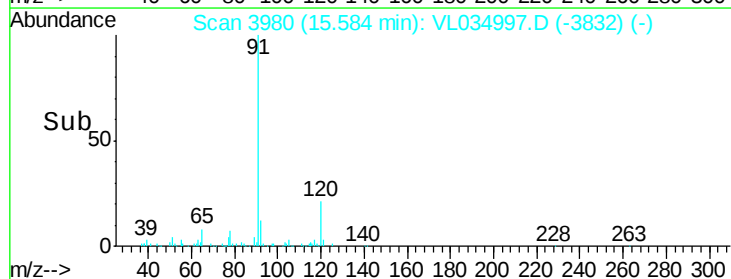
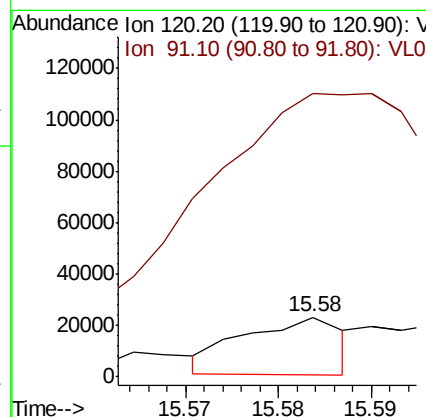
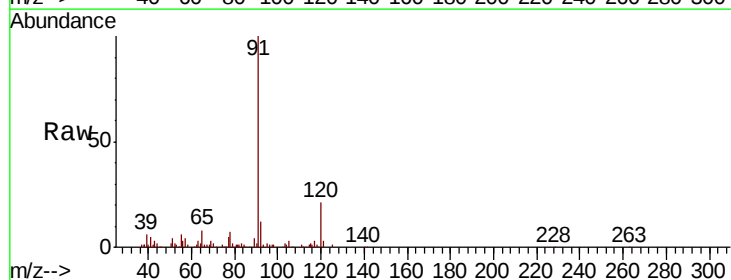
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

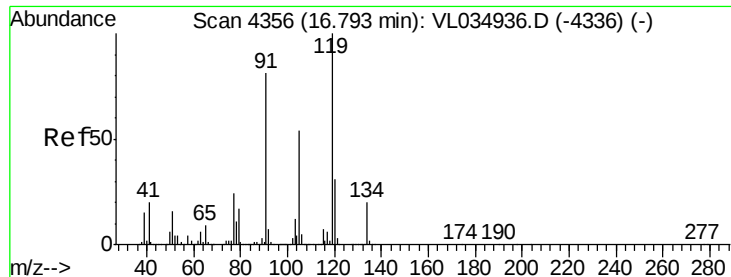
Tot Ion: 83 Resp: 4736
 Ion Ratio Lower Upper
 83 100
 131 2.3 4.7 14.0#
 85 0.0 32.5 97.4#



#64
 n-propylbenzene
 Concen: 0.170 ppbv
 RT: 15.58 min Scan# 3980
 Delta R.T. -0.02 min
 Lab File: VL034997.D
 Acq: 12 May 2020 21:38

Tgt Ion:120 Resp: 16634
 Ion Ratio Lower Upper
 120 100
 91 1554.1 373.5 560.3#





#65

tert-Butylbenzene

Concen: 0.153 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. -0.01 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

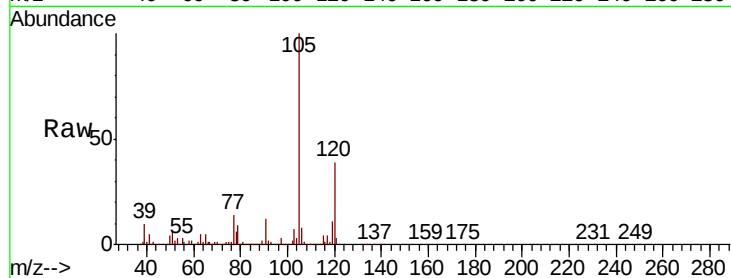
Tot Ion:119 Resp: 50653

Ion Ratio Lower Upper

119 100

91 193.6 67.5 101.3#

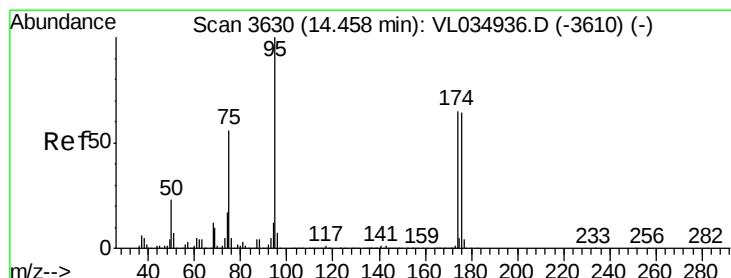
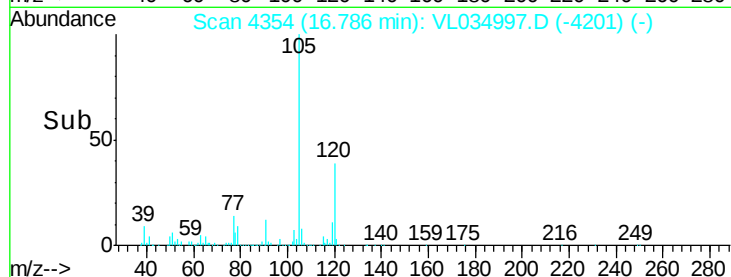
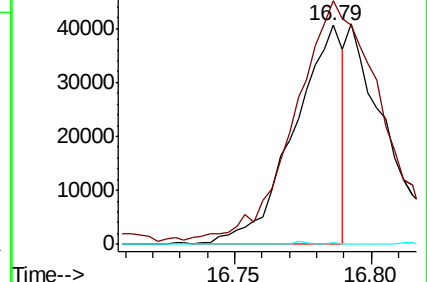
134 0.5 16.1 24.1#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.298 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

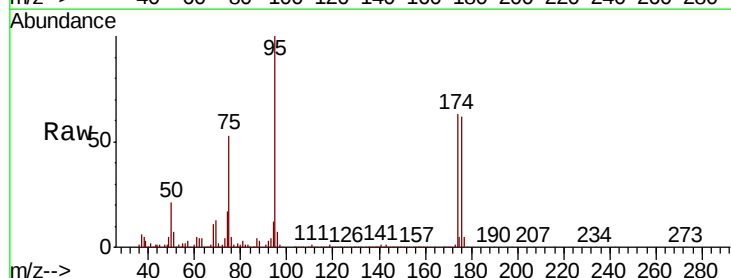
Tgt Ion: 95 Resp: 1979459

Ion Ratio Lower Upper

95 100

174 64.7 51.5 77.3

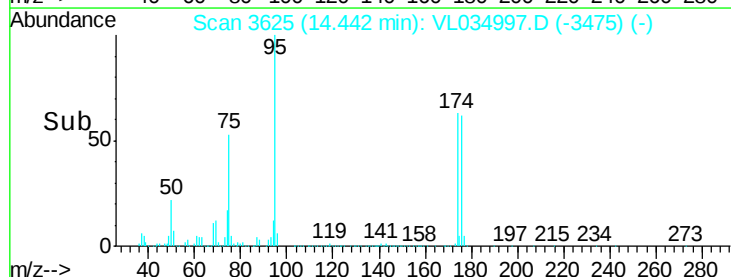
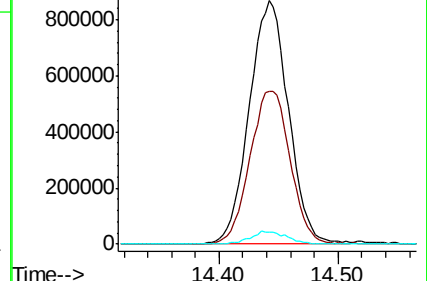
175 4.9 3.8 5.8

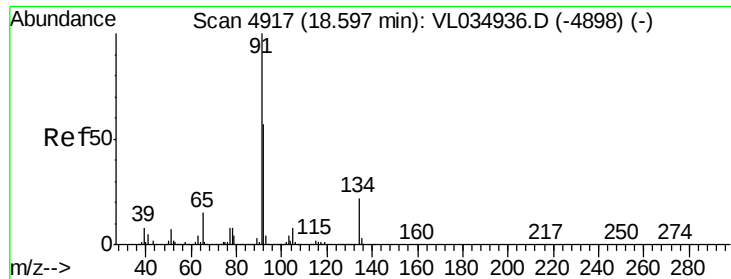


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#70

n-Butylbenzene

Concen: 0.026 ppbv

RT: 18.58 min Scan# 4911

Delta R.T. -0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

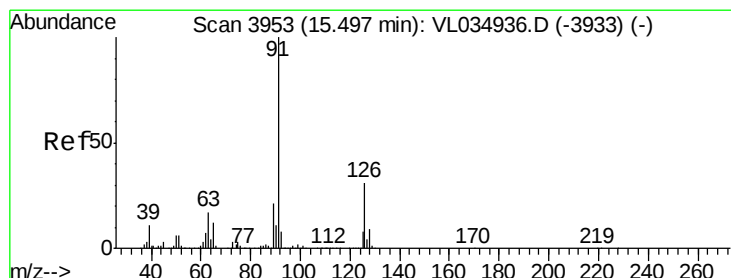
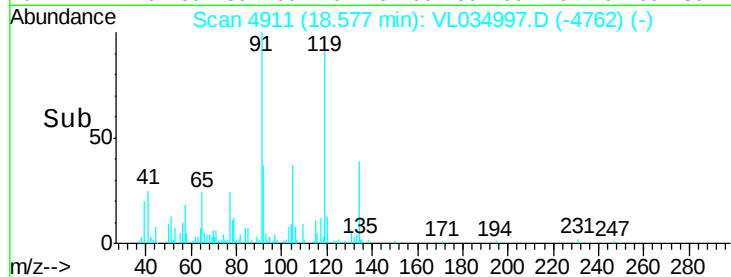
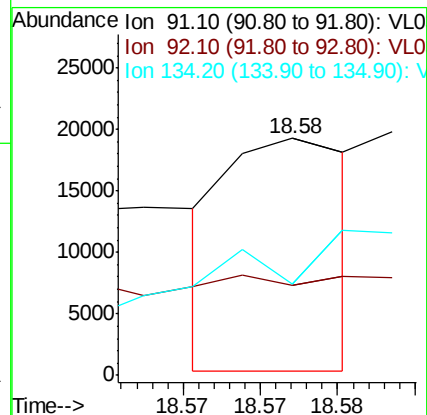
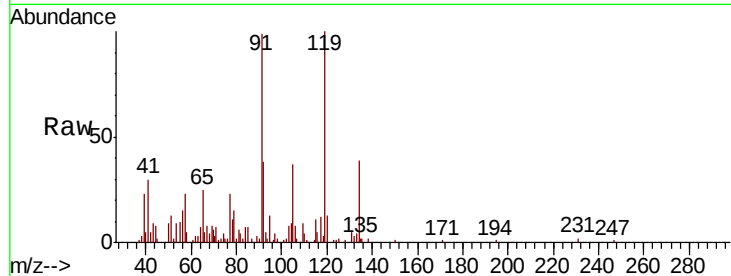
Tot Ion: 91 Resp: 10532

Ion Ratio Lower Upper

91 100

92 0.0 44.4 66.6#

134 0.0 18.0 27.0#



#71

2-Chlorotoluene

Concen: 0.865 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. 0.09 min

Lab File: VL034997.D

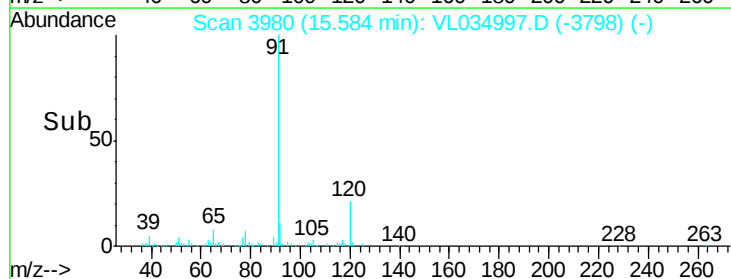
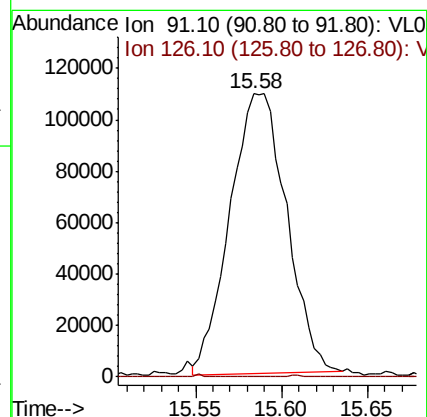
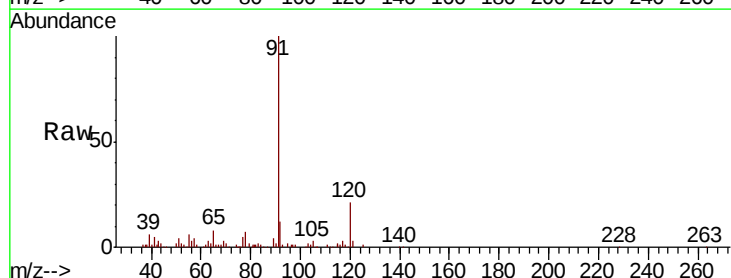
Acq: 12 May 2020 21:38

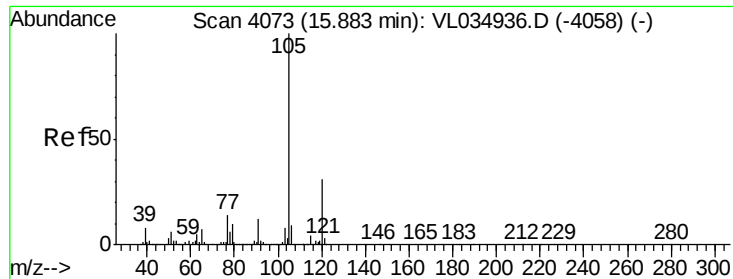
Tgt Ion: 91 Resp: 248538

Ion Ratio Lower Upper

91 100

126 0.0 12.0 47.8#





#72

4-Ethyltoluene

Concen: 1.007 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

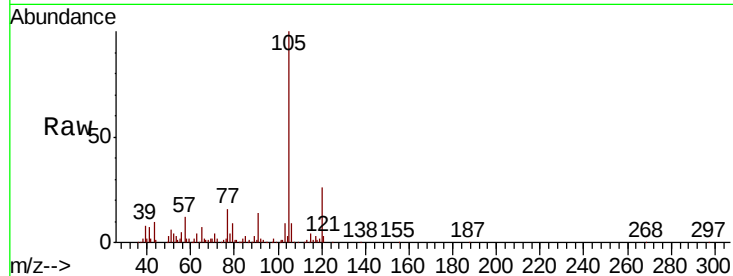
Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:	105	Resp:	286453
Ion	Ratio	Lower	Upper
105	100		
120	28.0	23.8	35.8
91	13.5	10.6	15.8
77	14.7	11.6	17.4

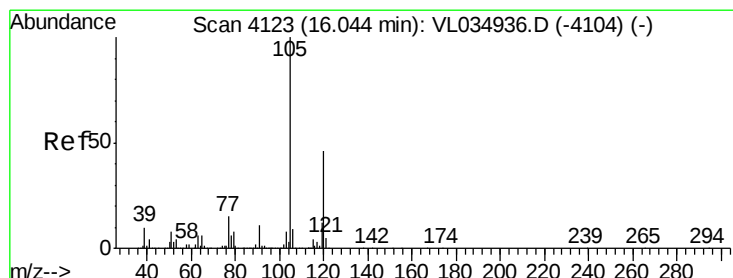
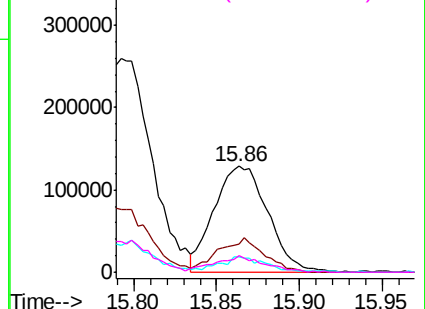
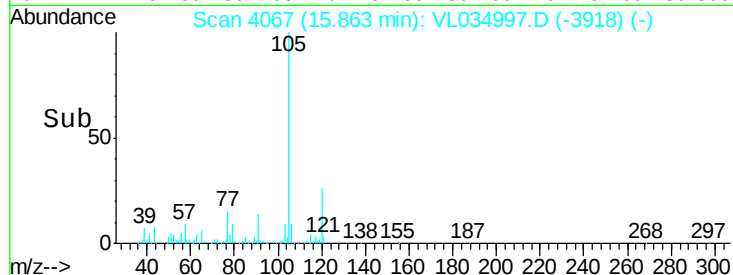


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.839 ppbv

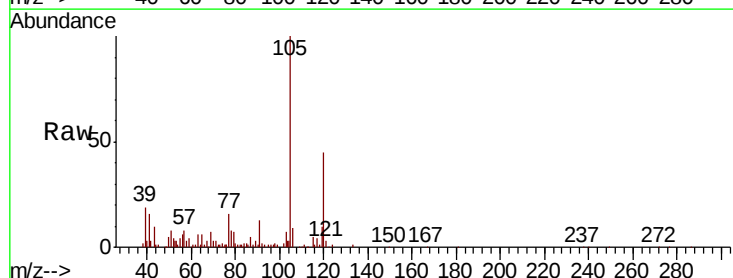
RT: 16.02 min Scan# 4116

Delta R.T. -0.02 min

Lab File: VL034997.D

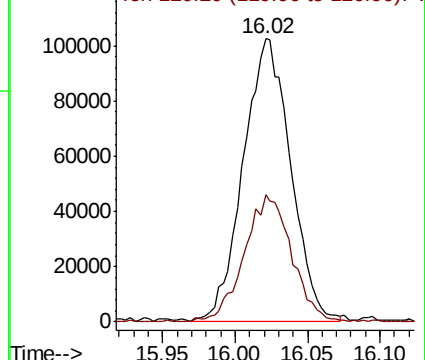
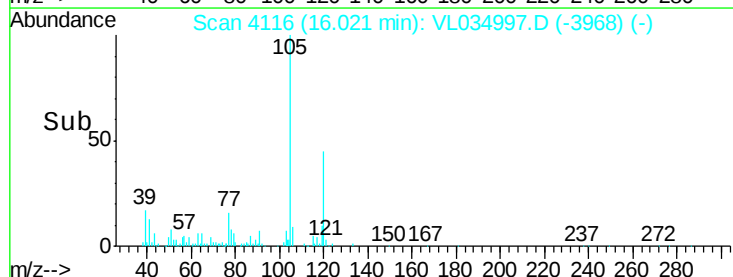
Acq: 12 May 2020 21:38

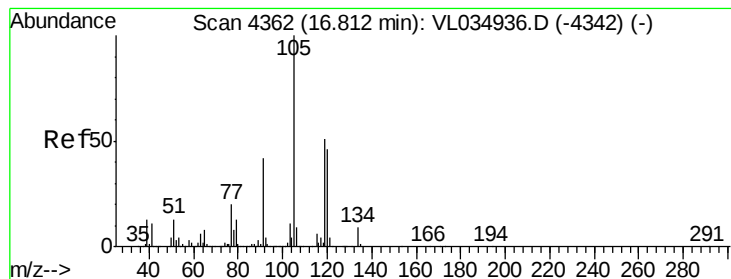
Tgt Ion:	105	Resp:	232228
Ion	Ratio	Lower	Upper
105	100		
120	45.3	36.4	54.6



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: 2.787 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. -0.03 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:105 Resp: 842068

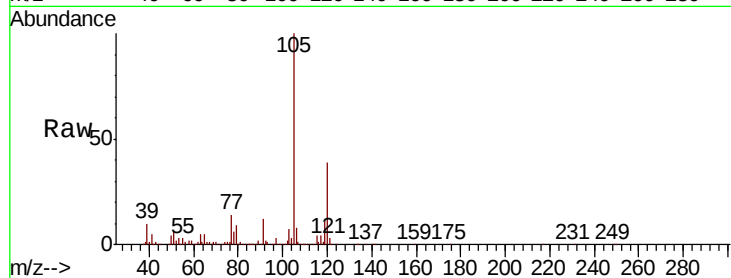
Ion Ratio Lower Upper

105 100

120 39.4 36.8 55.2

91 11.6 35.4 53.0#

77 13.4 16.2 24.2#



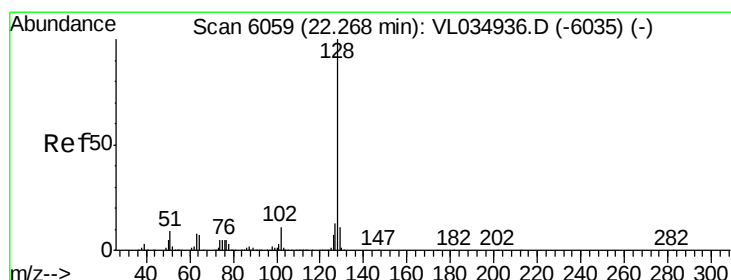
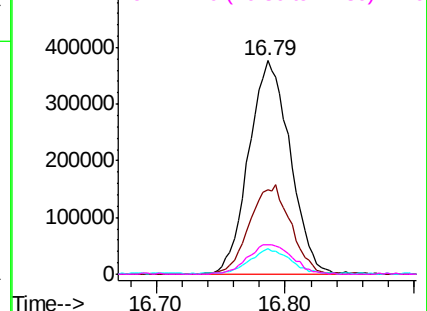
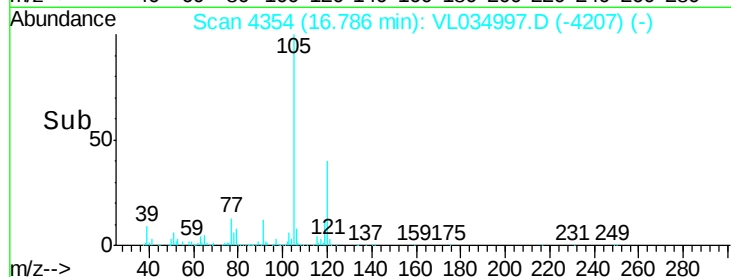
Abundance

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: 0.058 ppbv

RT: 22.25 min Scan# 6052

Delta R.T. -0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

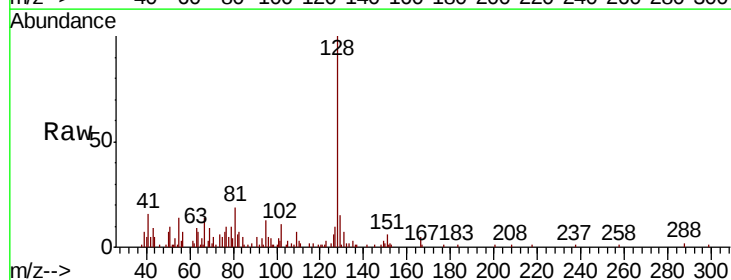
Tgt Ion:128 Resp: 13742

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 37.0 9.0 13.4#

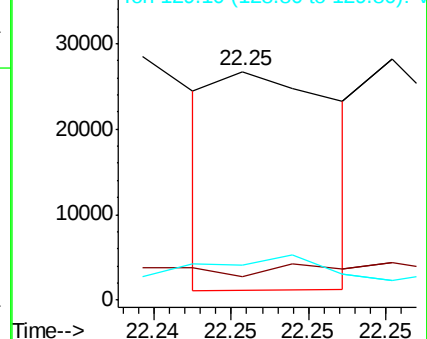
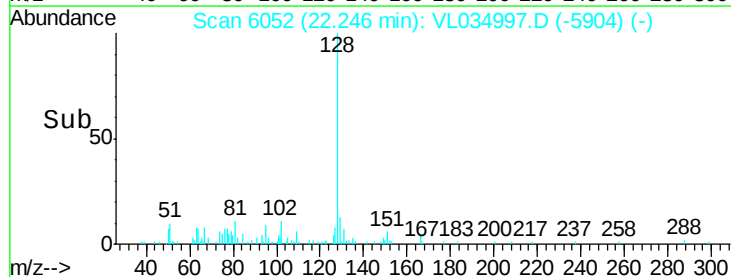


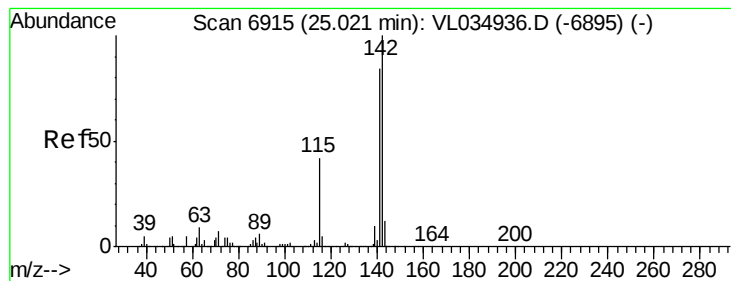
Abundance

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: 0.272 ppbv

RT: 25.00 min Scan# 6910

Delta R.T. -0.02 min

Lab File: VL034997.D

Acq: 12 May 2020 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3

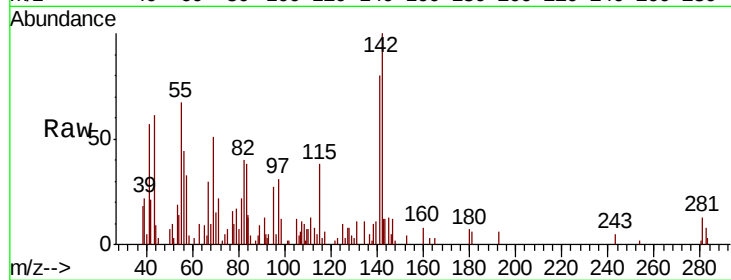
Tot Ion:142 Resp: 15735

Ion Ratio Lower Upper

142 100

141 100.1 68.6 102.8

115 65.5 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

