

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034990.D
 Acq On : 12 May 2020 17:04
 Operator : SY/AP
 Sample : L2567-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Quant Time: May 13 01:08:36 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	1040915	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2419107	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2260962	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1890300	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	40175	0.272	ppbv # 86
3) Chlorodifluoromethane	2.92	51	126021	1.060	ppbv # 72
4) Chloromethane	3.10	50	36496	0.536	ppbv 93
9) Propene	3.17	41	143080	2.774	ppbv 84
10) Heptane	8.13	43	154046	1.192	ppbv 100
11) Trichlorofluoromethane	3.92	101	49473	0.325	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.47	101	3143	0.029	ppbv # 14
13) Ethanol	3.61	45	17615910	1035.190	ppbv 89
15) Acetone	3.82	43	3132035	22.760	ppbv 96
16) 1,3-Butadiene	3.27	39	39194	0.662	ppbv # 32
17) tert-Butyl alcohol	4.28	59	867144	7.082	ppbv # 71
19) Isopropyl Alcohol	3.99	45	7466811	81.362	ppbv # 98
20) Methylene Chloride	4.32	84	426179	9.355	ppbv 96
21) Allyl Chloride	4.34	41	21160	0.272	ppbv # 37
23) Vinyl Acetate	5.09	43	245781	1.408	ppbv # 44
25) Ethyl Acetate	5.67	43	1395914	6.039	ppbv # 93
26) Hexane	5.67	57	1096497	10.942	ppbv # 62
30) Cyclohexane	7.13	84	44284	0.573	ppbv # 87
31) cis-1,2-Dichloroethene	5.54	61	8480	0.087	ppbv # 79
34) 2-Butanone	5.23	43	166503	1.107	ppbv 99
36) Benzene	6.89	78	163097	0.818	ppbv 94
38) Trichloroethene	7.84	130	107858	1.396	ppbv 93
39) 1,2-Dichloropropane	7.18	63	659059	8.243	ppbv # 25
41) Tetrahydrofuran	6.04	42	141617	1.789	ppbv 98
44) 2,2,4-Trimethylpentane	7.87	57	361017	1.018	ppbv # 84
50) 4-Methyl-2-Pentanone	8.76	43	11025	0.051	ppbv # 20
51) 2-Hexanone	10.12	43	48281	0.288	ppbv # 37
52) Tetrachloroethene	11.25	164	385893	5.441	ppbv 98
53) Toluene	9.83	91	9915298	46.897	ppbv 88
57) Chlorobenzene	12.18	112	3708	0.021	ppbv # 42
58) Ethyl Benzene	12.73	91	680563	2.434	ppbv 99
59) m/p-Xylene	13.00	91	1793084	7.289	ppbv # 58
60) o-Xylene	13.72	91	572706	2.359	ppbv 99
61) Styrene	13.56	104	493641	3.213	ppbv 99
62) Isopropylbenzene	14.70	105	7670	0.021	ppbv # 1
64) n-propylbenzene	15.60	120	8178	0.088	ppbv # 1
65) tert-Butylbenzene	16.79	119	15692	0.050	ppbv # 17
69) p-Isopropyltoluene	17.69	119	7426	0.020	ppbv # 18
72) 4-Ethyltoluene	15.87	105	86630	0.320	ppbv # 94
73) 1,3,5-Trimethylbenzene	16.03	105	39972	0.152	ppbv 99
74) 1,2,4-Trimethylbenzene	16.79	105	313289	1.089	ppbv # 76

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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

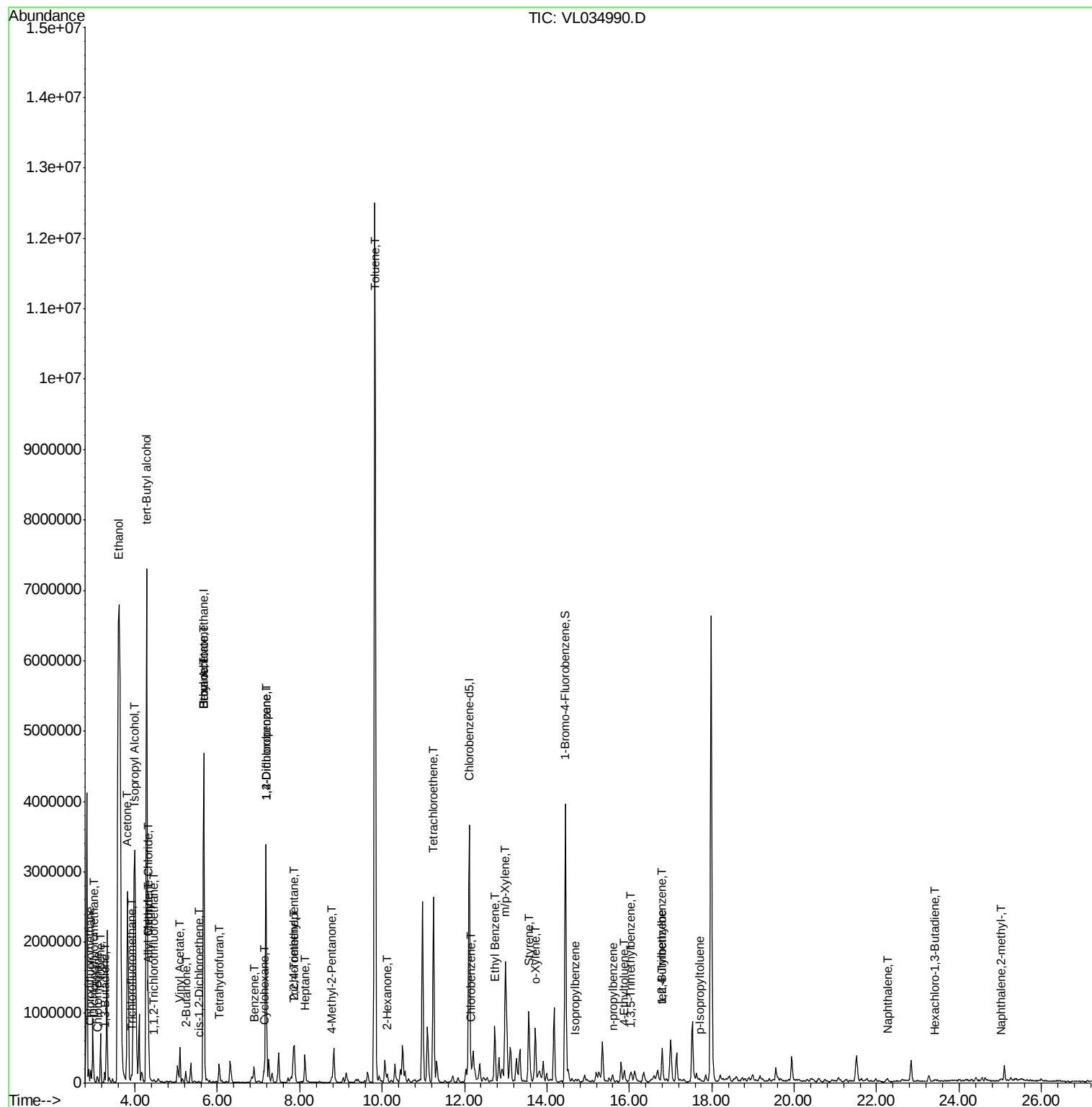
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Hexachloro-1,3-Butadiene	23.42	225	2882	0.021	ppbv #	32
79) Naphthalene	22.26	128	6523	0.029	ppbv #	72
80) Naphthalene,2-methyl-	25.02	142	6059	0.110	ppbv #	83

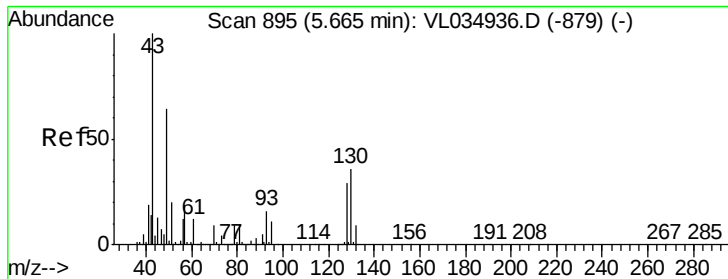
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

IA-5

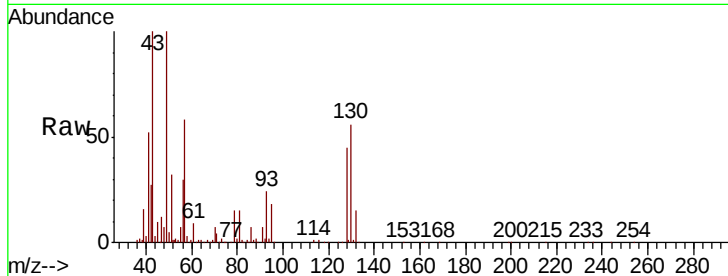
Tot Ion: 49 Resp: 1040915

Ion Ratio Lower Upper

49 100

128 45.1 22.1 66.5

130 57.3 29.1 87.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

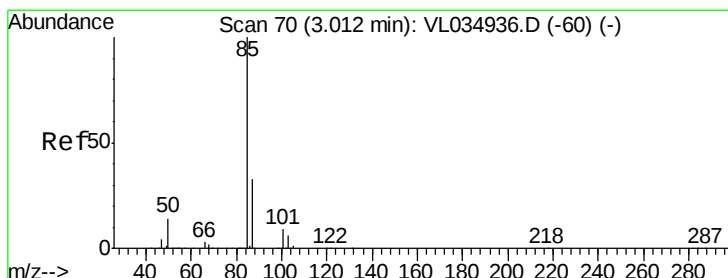
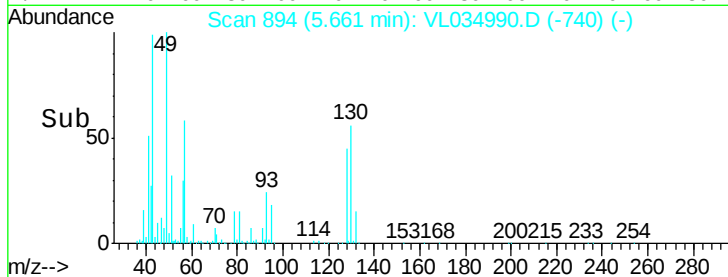
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.272 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL034990.D

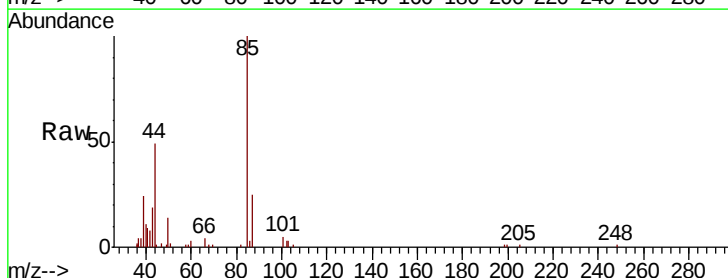
Acq: 12 May 2020 17:04

Tgt Ion: 85 Resp: 40175

Ion Ratio Lower Upper

85 100

87 24.7 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.00

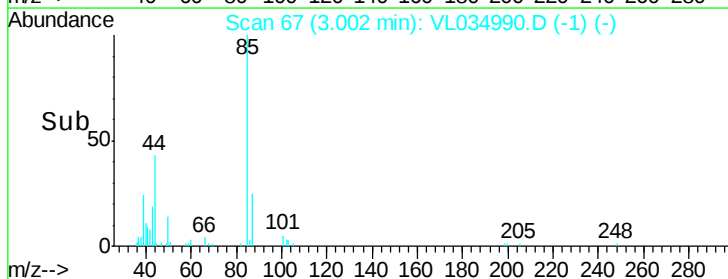
30000

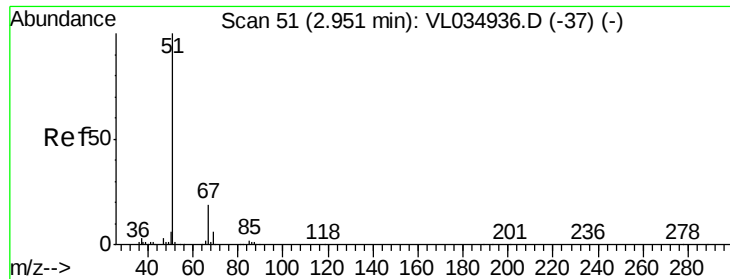
20000

10000

0

Time-->





#3

Chlorodifluoromethane

Concen: 1.060 ppbv

RT: 2.92 min Scan# 41

Delta R.T. -0.03 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

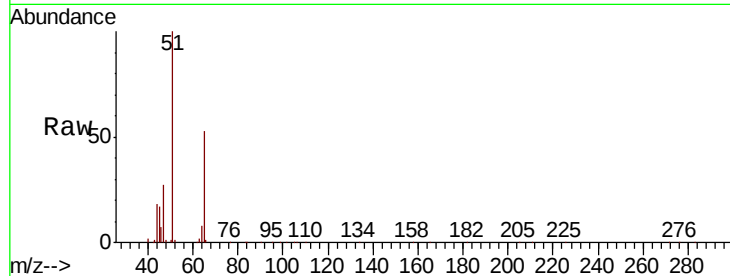
IA-5

Tot Ion: 51 Resp: 126021

Ion Ratio Lower Upper

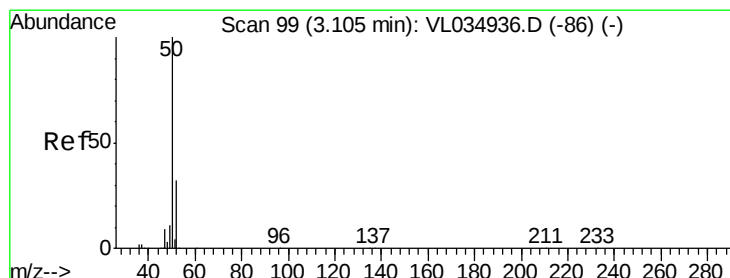
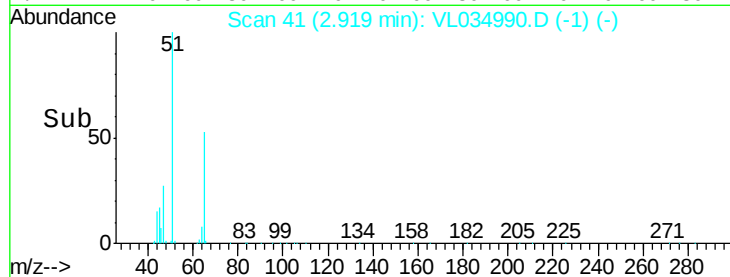
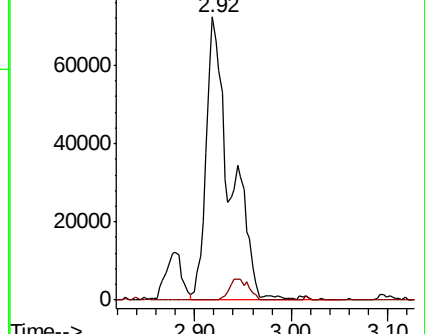
51 100

67 6.0 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: 0.536 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.01 min

Lab File: VL034990.D

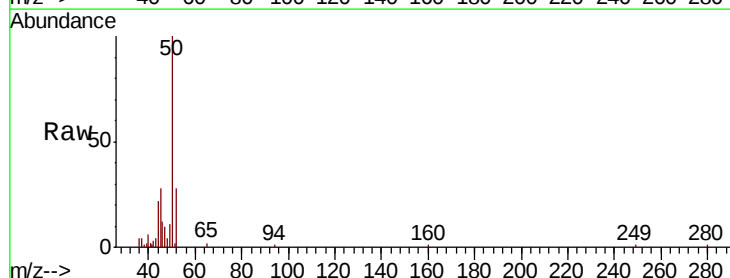
Acq: 12 May 2020 17:04

Tgt Ion: 50 Resp: 36496

Ion Ratio Lower Upper

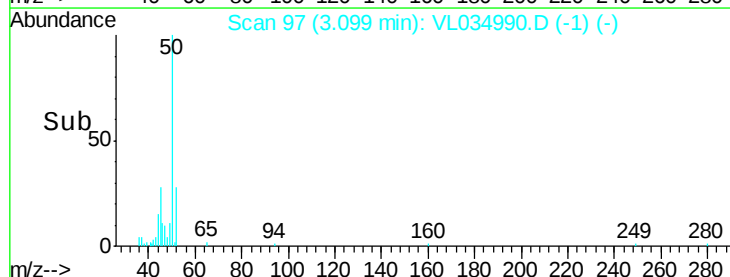
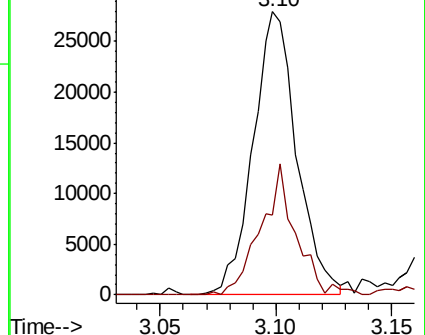
50 100

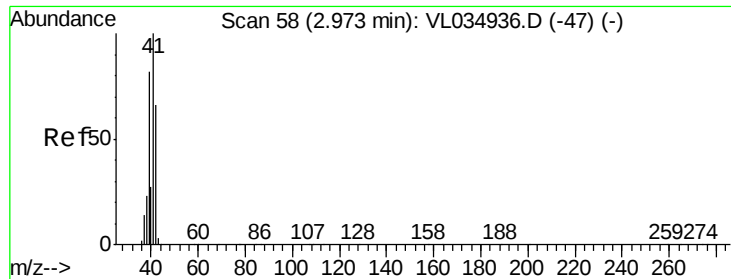
52 28.0 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.774 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.19 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampled :

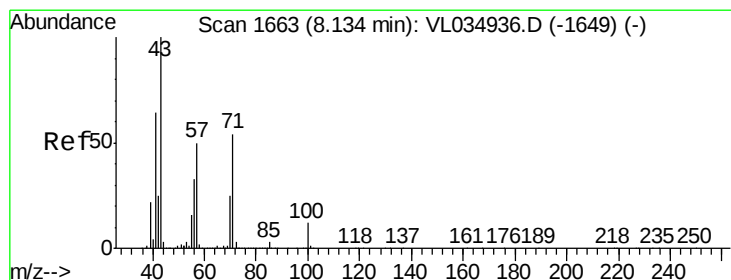
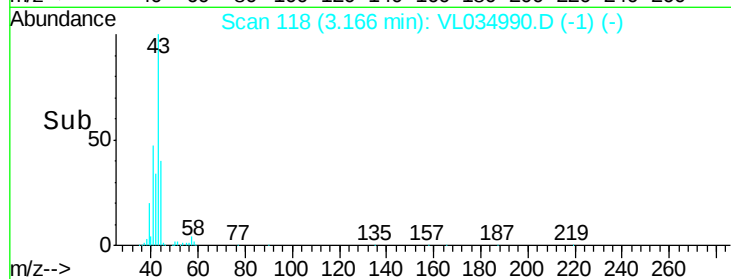
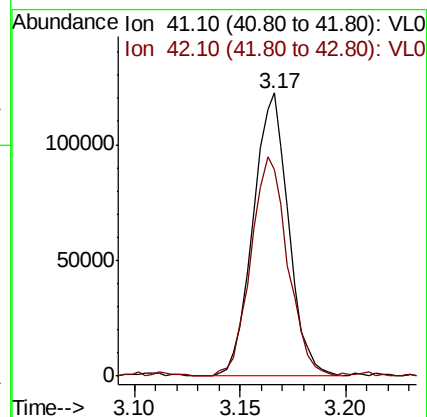
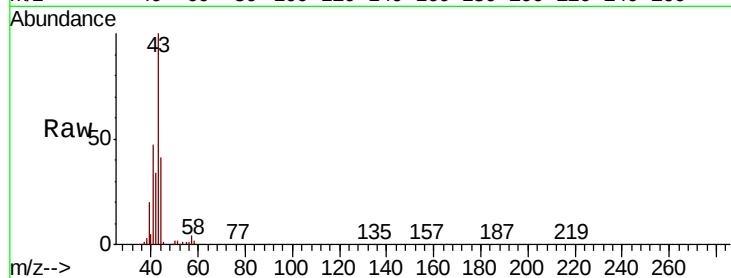
IA-5

Tot Ion: 41 Resp: 143080

Ion Ratio Lower Upper

41 100

42 81.1 54.5 81.7



#10

Heptane

Concen: 1.192 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.01 min

Lab File: VL034990.D

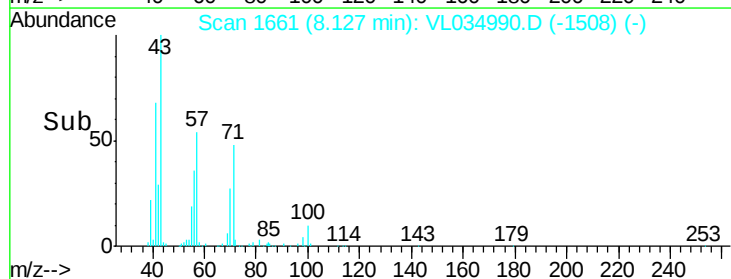
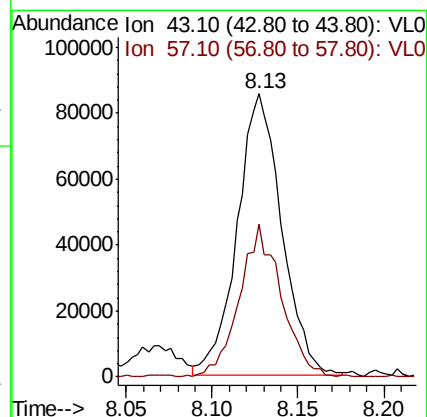
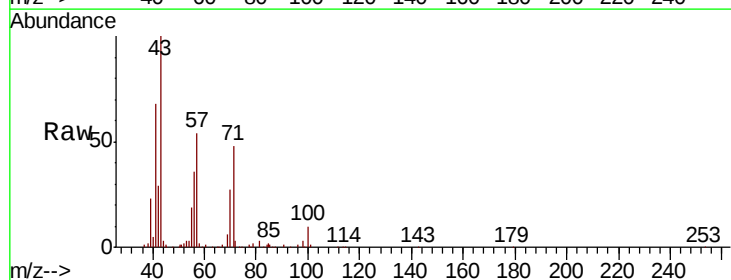
Acq: 12 May 2020 17:04

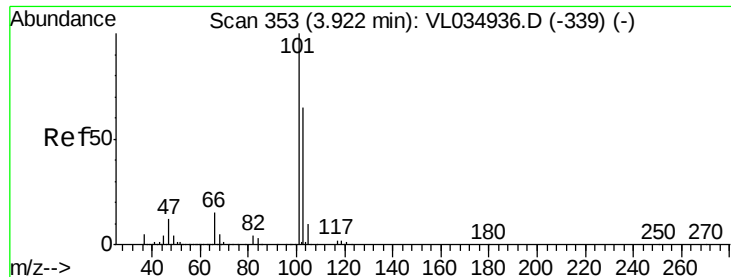
Tgt Ion: 43 Resp: 154046

Ion Ratio Lower Upper

43 100

57 51.4 41.1 61.7





#11

Trichlorofluoromethane

Concen: 0.325 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

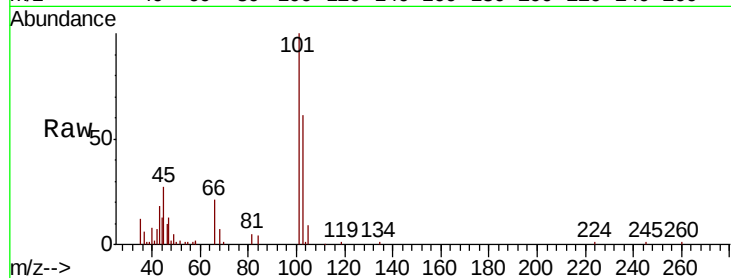
IA-5

Tot Ion:101 Resp: 49473

Ion Ratio Lower Upper

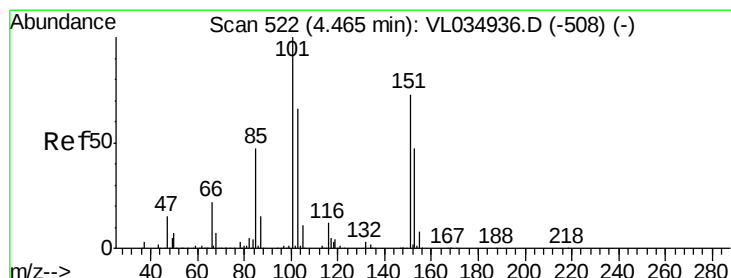
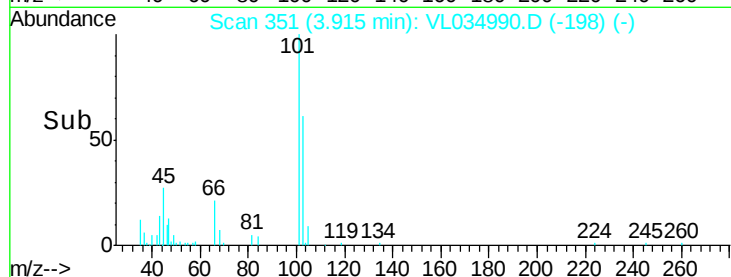
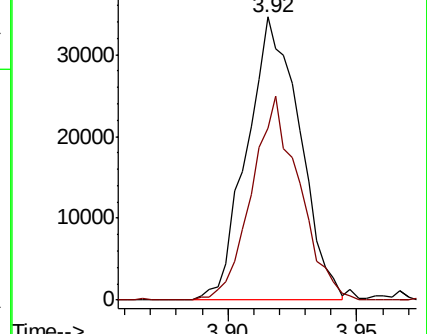
101 100

103 60.7 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: 0.029 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL034990.D

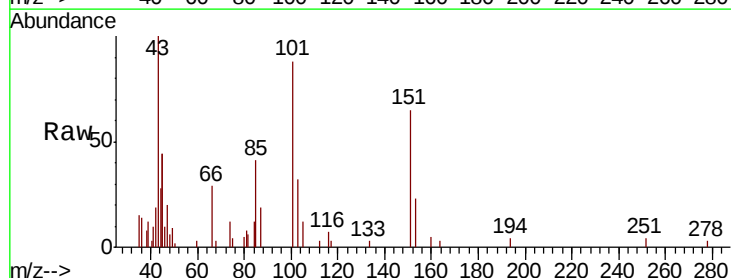
Acq: 12 May 2020 17:04

Tgt Ion:101 Resp: 3143

Ion Ratio Lower Upper

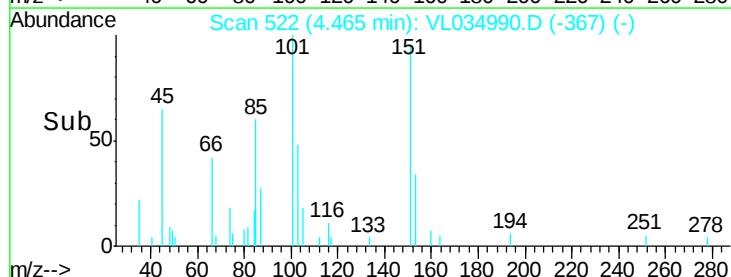
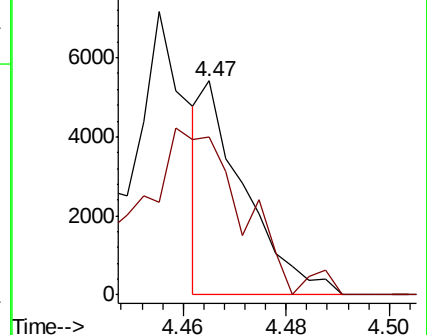
101 100

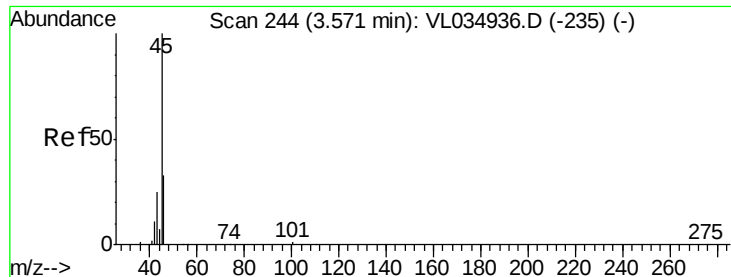
151 0.0 57.6 86.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1035.190 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.04 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

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ClientSampleId :

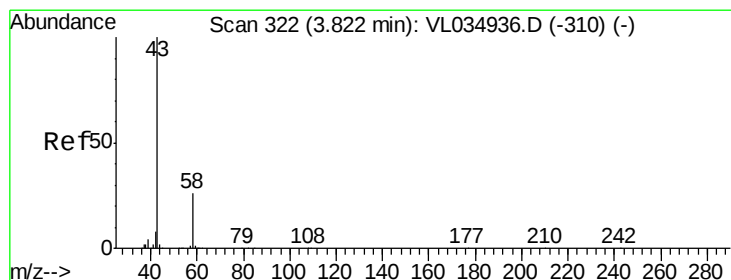
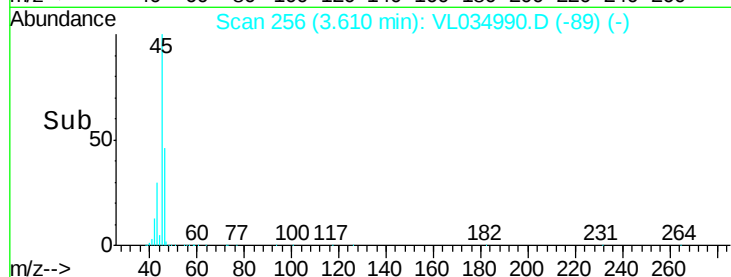
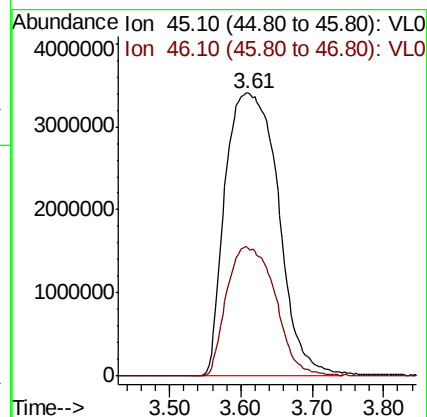
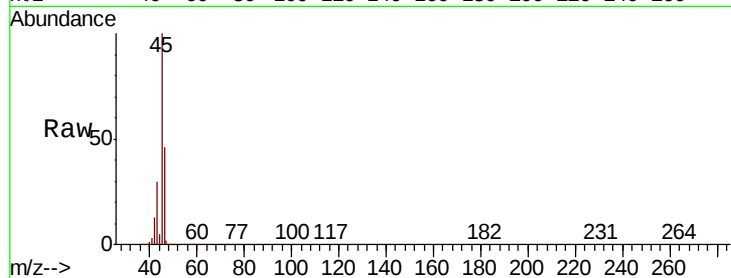
IA-5

Tot Ion: 45 Resp:17615910

Ion Ratio Lower Upper

45 100

46 42.2 14.3 57.3



#15

Acetone

Concen: 22.760 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.01 min

Lab File: VL034990.D

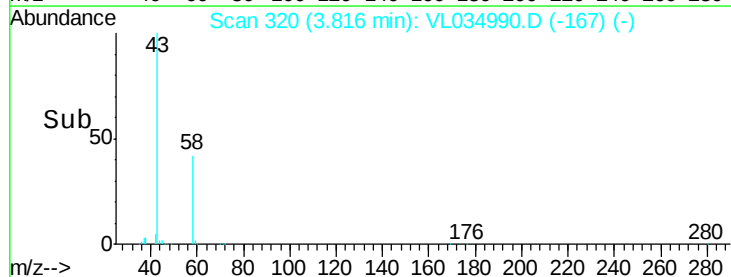
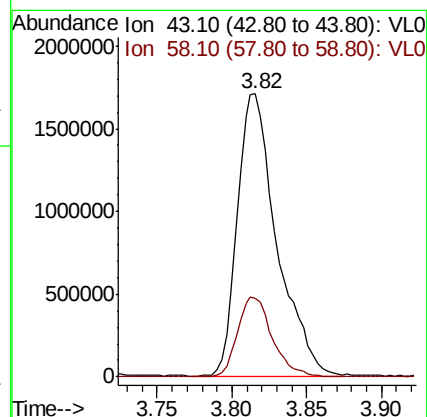
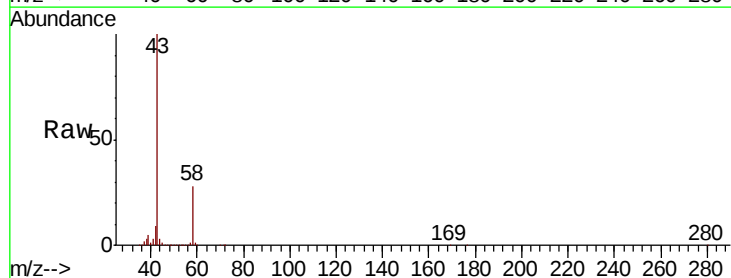
Acq: 12 May 2020 17:04

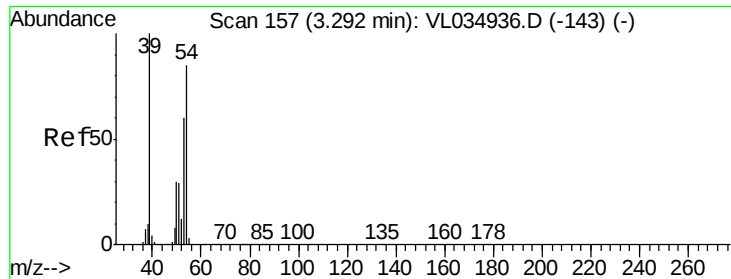
Tgt Ion: 43 Resp: 3132035

Ion Ratio Lower Upper

43 100

58 25.0 21.7 32.5

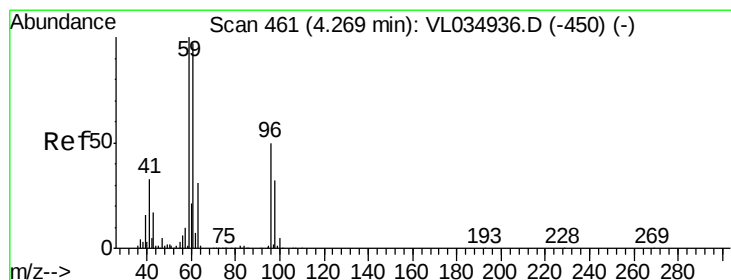
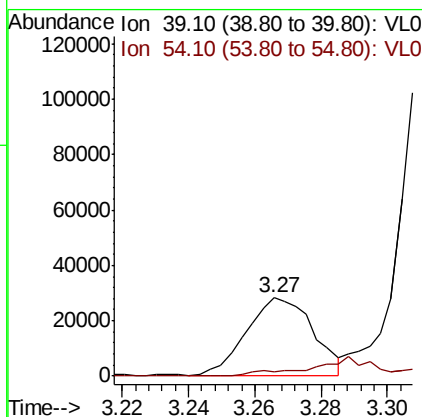
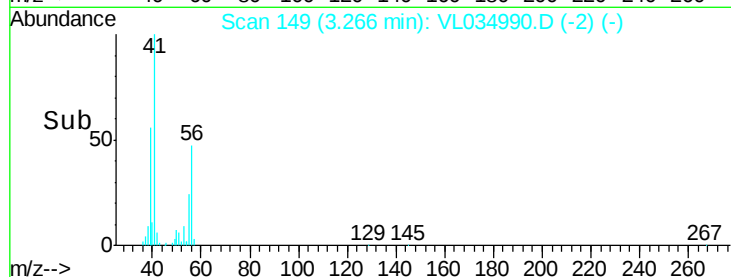
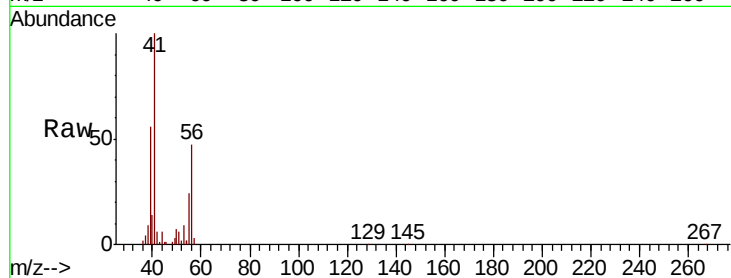




#16
 1,3-Butadiene
 Concen: 0.662 ppbv
 RT: 3.27 min Scan# 149
 Delta R.T. -0.03 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

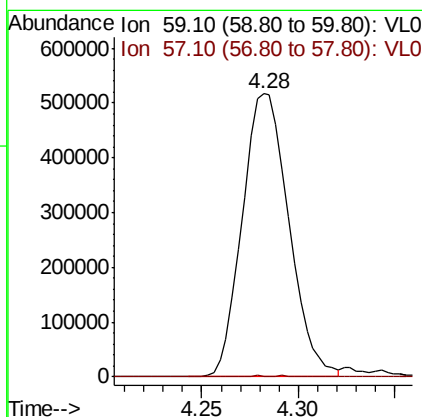
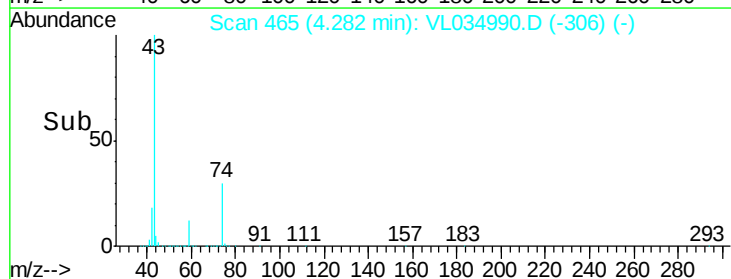
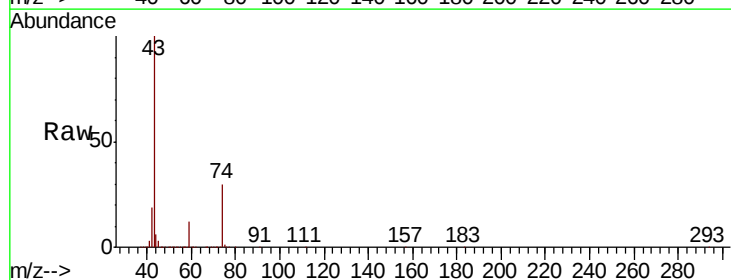
Instrument :
 MSVOA_L
 ClientSampled :
 IA-5

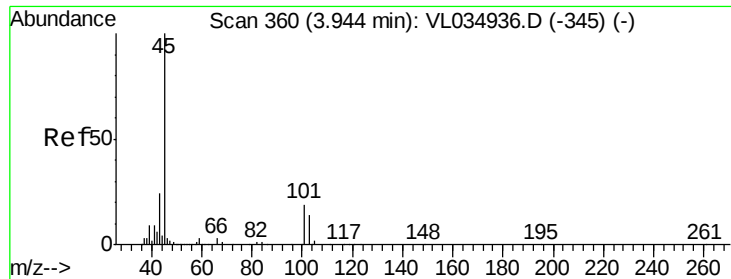
Tot Ion: 39 Resp: 39194
 Ion Ratio Lower Upper
 39 100
 54 22.2 66.6 100.0#



#17
 tert-Butyl alcohol
 Concen: 7.082 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. 0.01 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

Tgt Ion: 59 Resp: 867144
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#



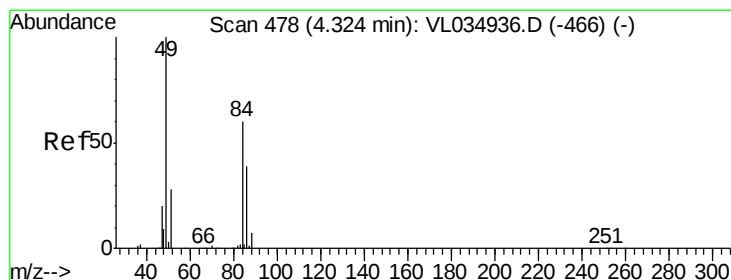
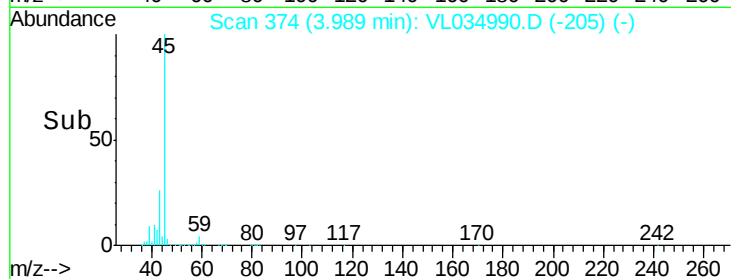
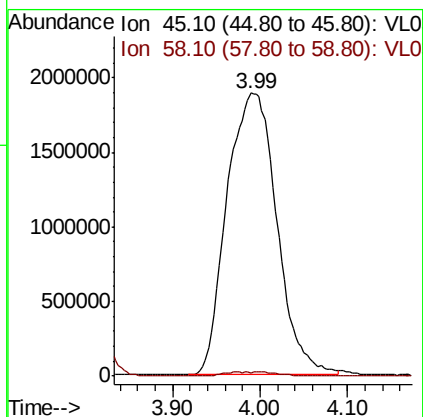
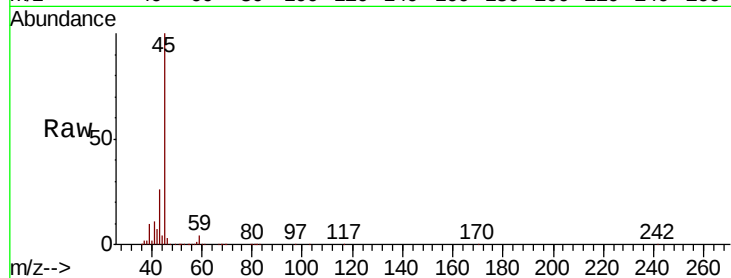


#19

Isopropyl Alcohol
 Concen: 81.362 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.04 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-5

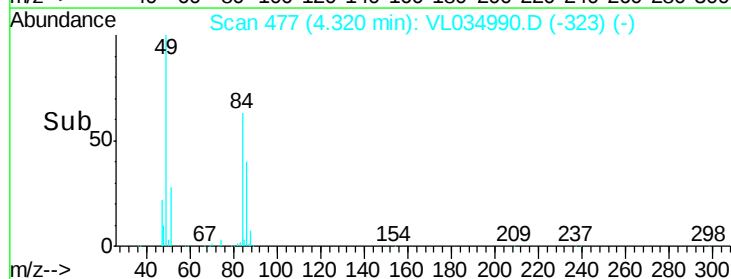
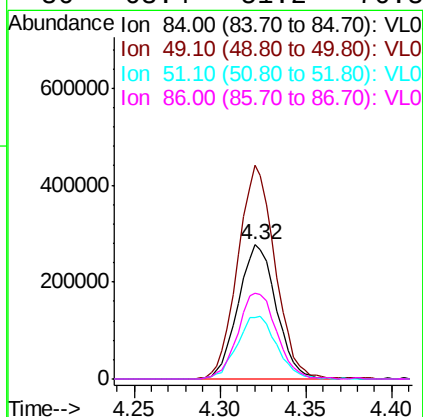
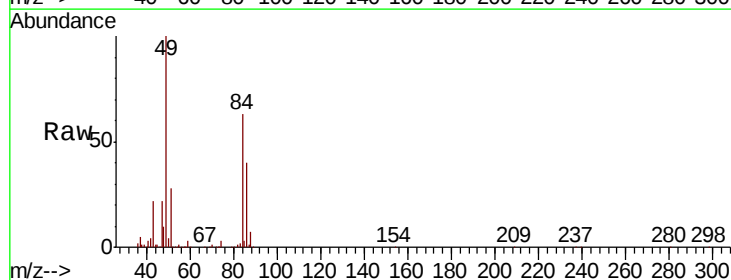
Tot Ion: 45 Resp: 7466811
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.7 2.5#

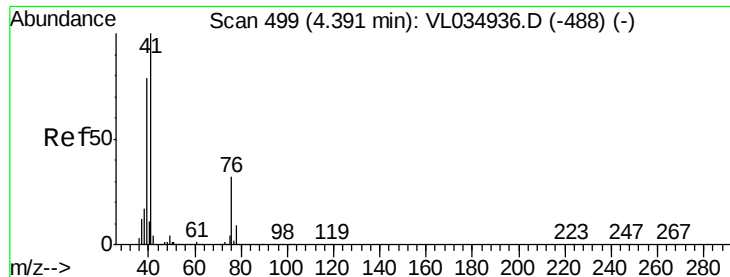


#20

Methylene Chloride
 Concen: 9.355 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.00 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

Tgt Ion: 84 Resp: 426179
 Ion Ratio Lower Upper
 84 100
 49 159.0 132.5 198.7
 51 45.0 38.4 57.6
 86 63.4 51.2 76.8

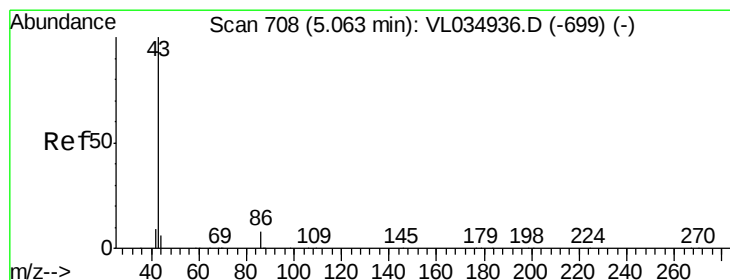
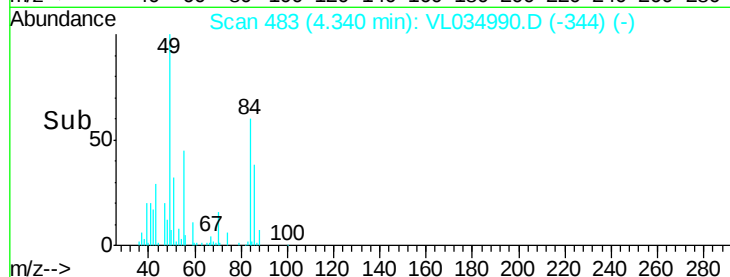
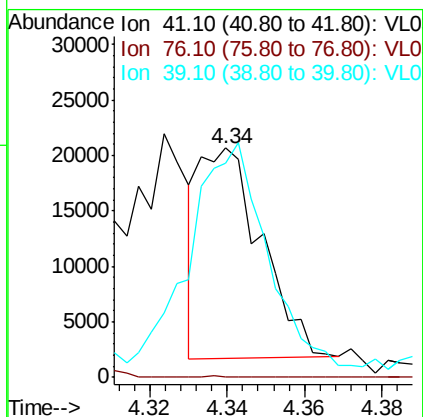
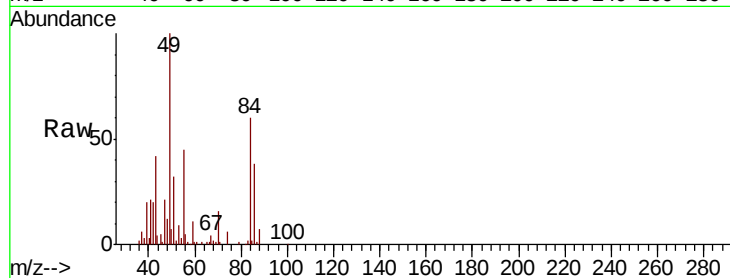




#21
Allvl Chloride
Concen: 0.272 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.05 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

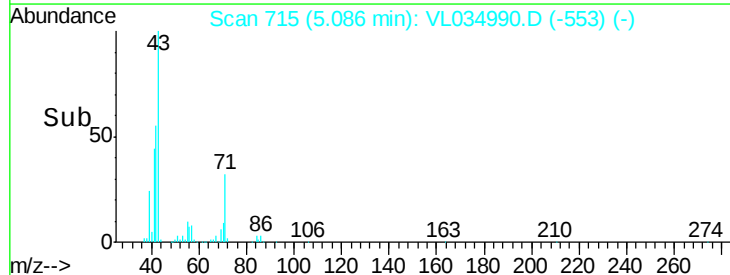
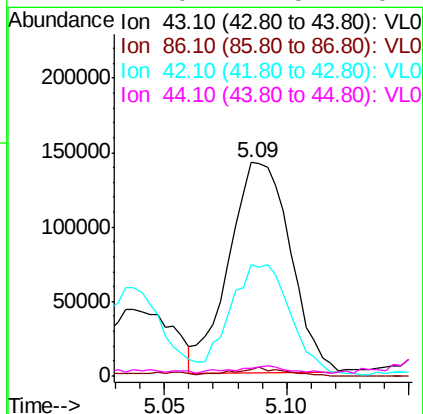
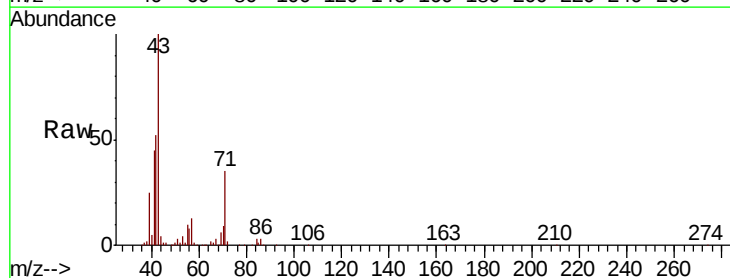
Instrument :
MSVOA_L
ClientSampleId :
IA-5

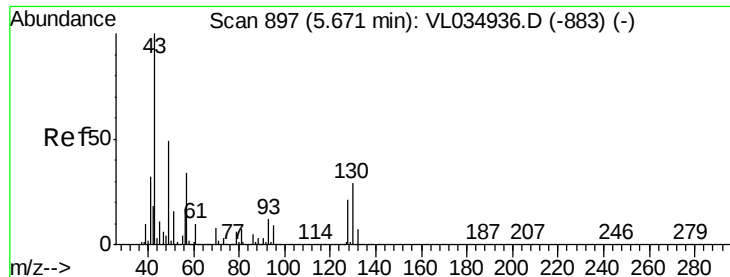
Tot Ion: 41 Resp: 21160
Ion Ratio Lower Upper
41 100
76 0.0 23.6 35.4#
39 135.1 61.9 92.9#



#23
Vinyl Acetate
Concen: 1.408 ppbv
RT: 5.09 min Scan# 715
Delta R.T. 0.02 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

Tgt Ion: 43 Resp: 245781
Ion Ratio Lower Upper
43 100
86 2.9 5.5 8.3#
42 51.8 8.0 12.0#
44 2.0 4.5 6.7#



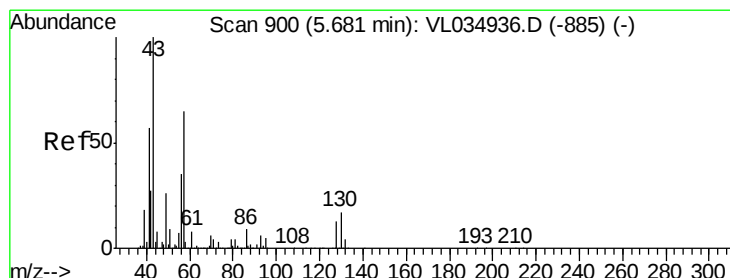
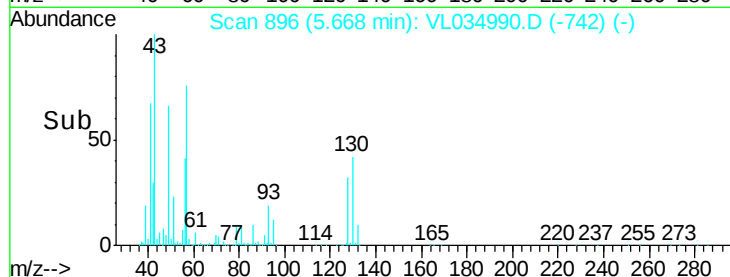
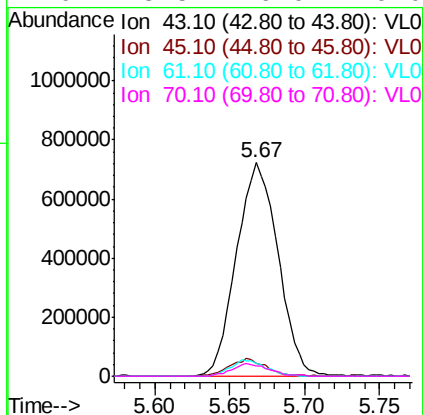
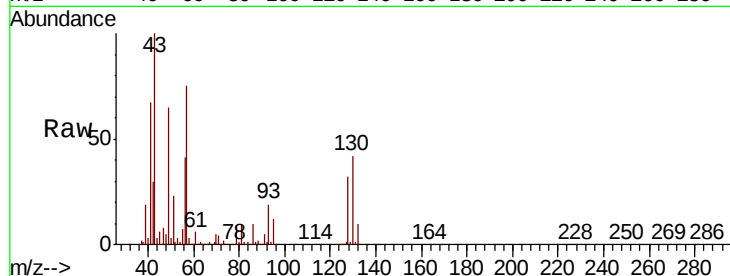


#25
Ethyl Acetate
Concen: 6.039 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

Instrument :
MSVOA_L
ClientSampleId :
IA-5

Tot Ion: 43 Resp: 1395914

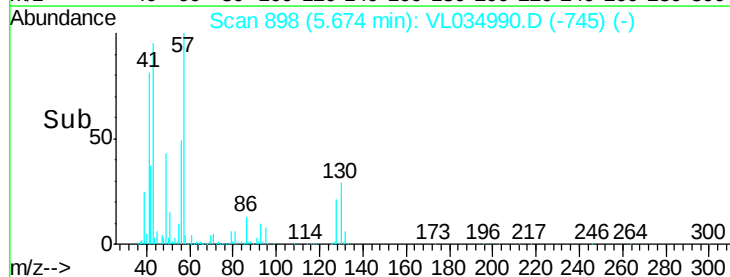
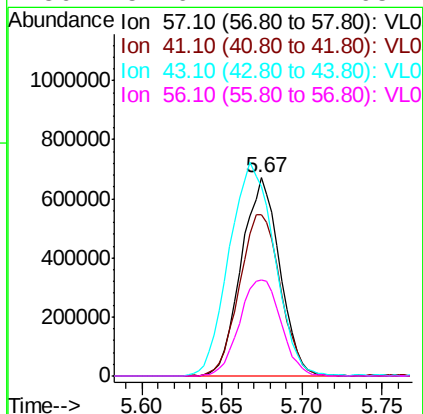
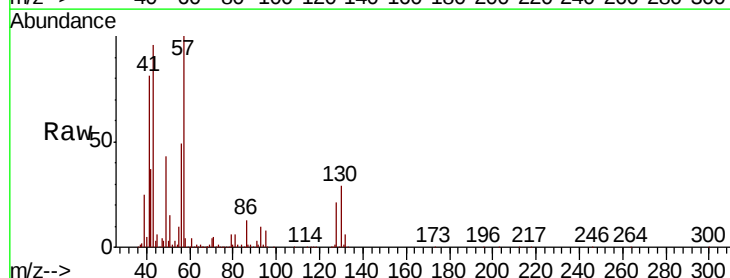
Ion	Ratio	Lower	Upper
43	100		
45	7.4	8.1	12.1#
61	6.6	7.8	11.8#
70	5.5	6.0	9.0#

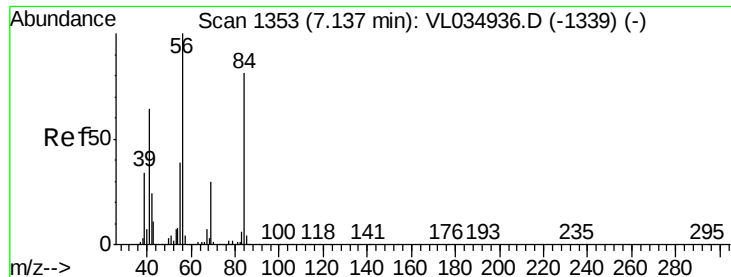


#26
Hexane
Concen: 10.942 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

Tgt Ion: 57 Resp: 1096497

Ion	Ratio	Lower	Upper
57	100		
41	87.4	72.7	109.1
43	128.0	182.1	273.1#
56	52.6	42.2	63.2

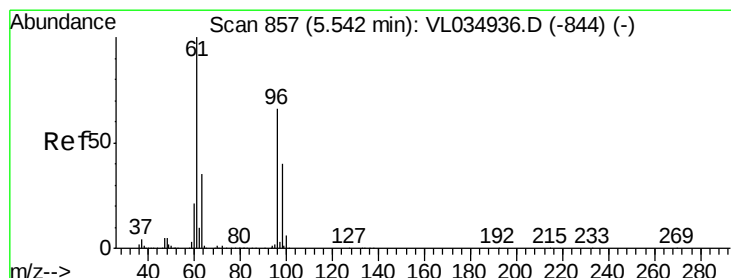
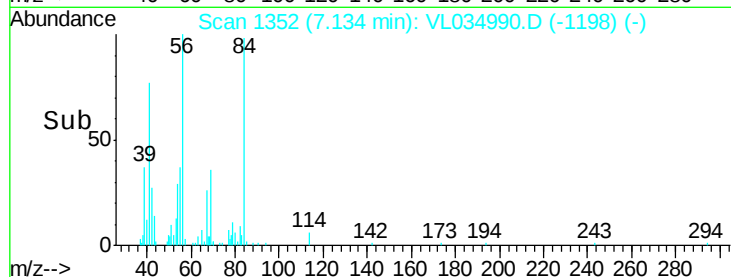
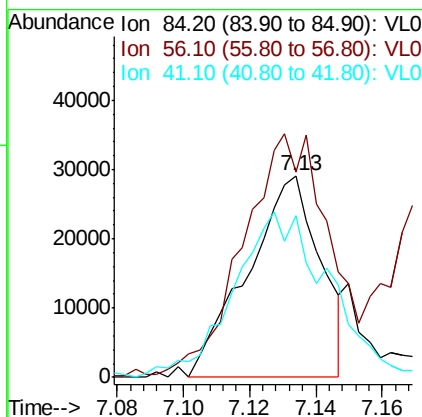
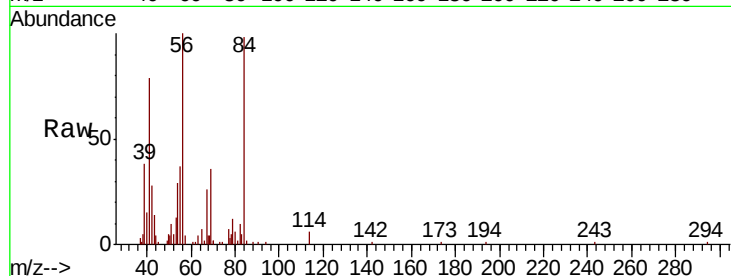




#30
Cyclohexane
Concen: 0.573 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.00 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

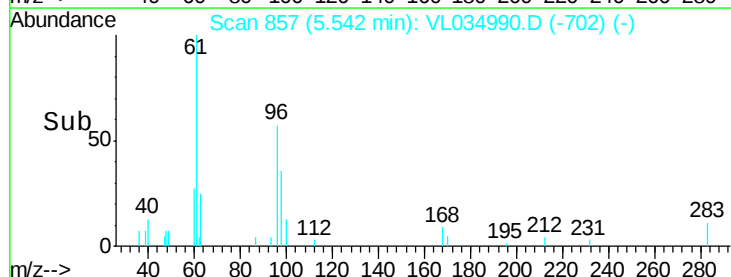
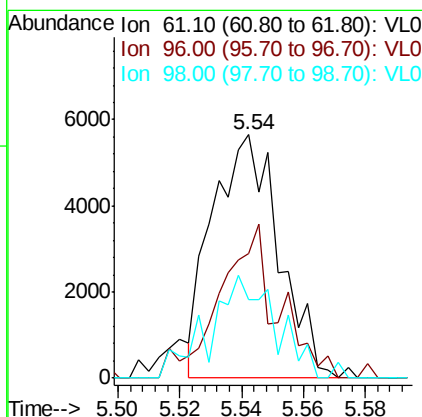
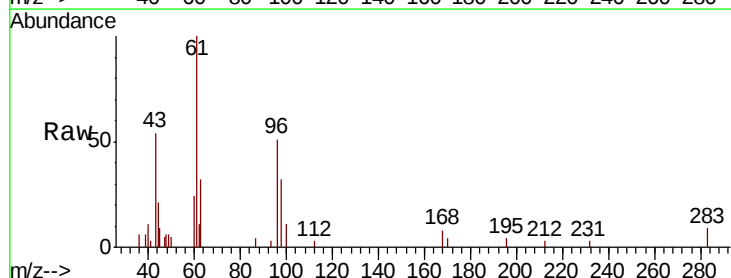
Instrument :
MSVOA_L
ClientSampleId :
IA-5

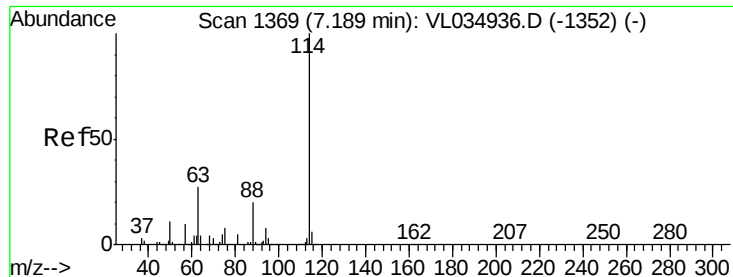
Tot Ion: 84 Resp: 44284
Ion Ratio Lower Upper
84 100
56 144.3 111.4 167.2
41 107.9 66.7 100.1#



#31
cis-1,2-Dichloroethene
Concen: 0.087 ppbv
RT: 5.54 min Scan# 857
Delta R.T. -0.00 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

Tgt Ion: 61 Resp: 8480
Ion Ratio Lower Upper
61 100
96 51.0 53.0 79.6#
98 25.6 32.2 48.2#

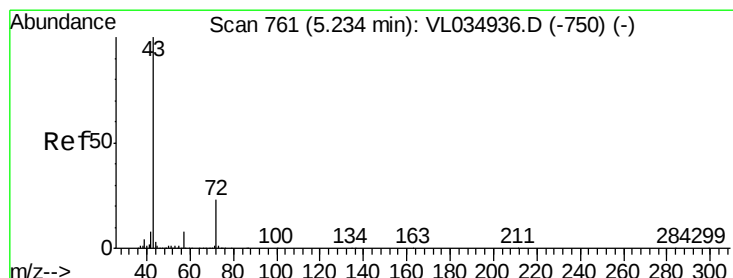
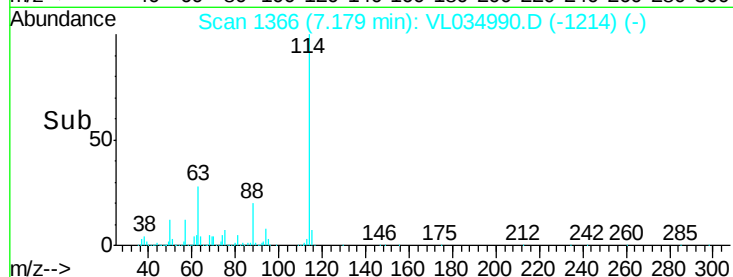
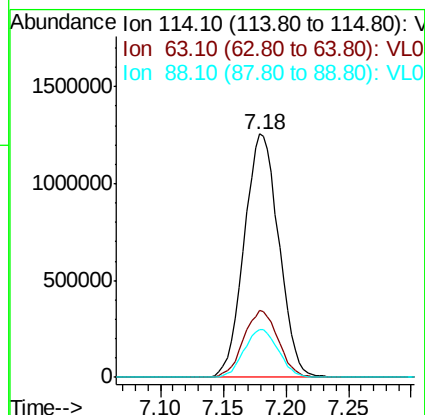
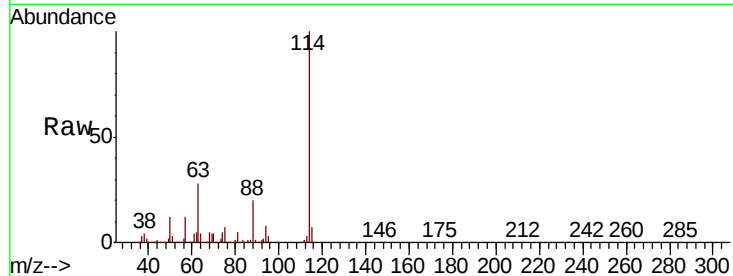




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

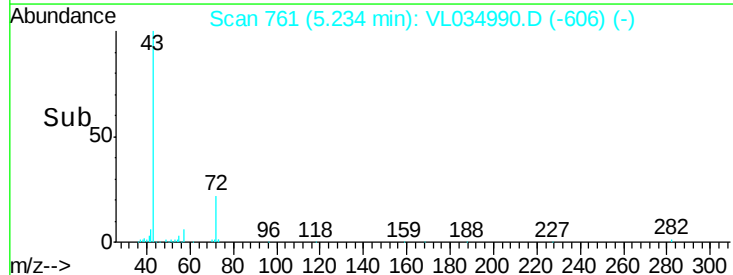
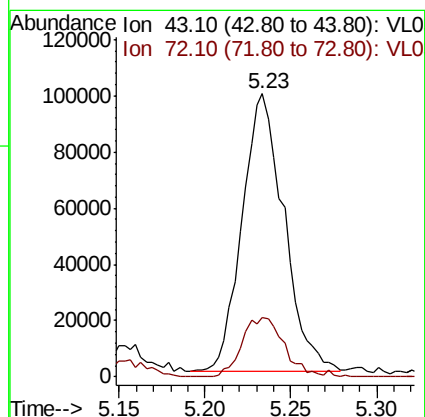
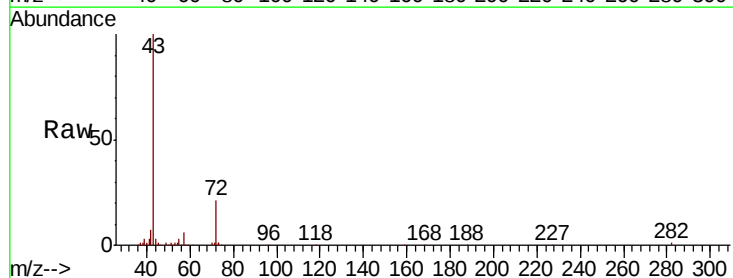
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

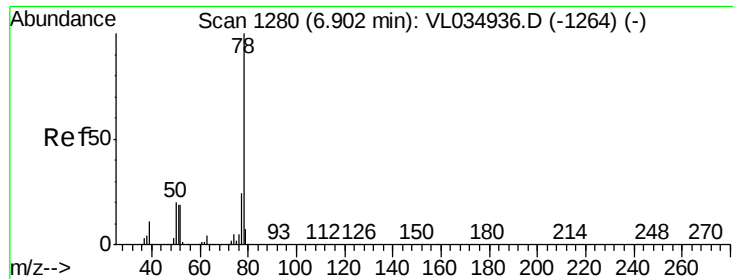
Tot Ion:114 Resp: 2419107
 Ion Ratio Lower Upper
 114 100
 63 27.5 22.2 33.4
 88 19.4 15.5 23.3



#34
 2-Butanone
 Concen: 1.107 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

Tgt Ion: 43 Resp: 166503
 Ion Ratio Lower Upper
 43 100
 72 21.9 18.0 27.0





#36

Benzene

Concen: 0.818 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

IA-5

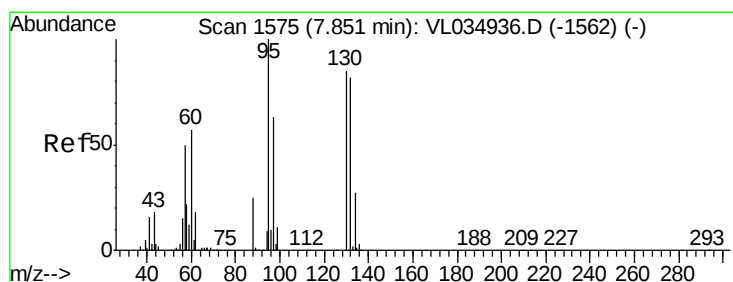
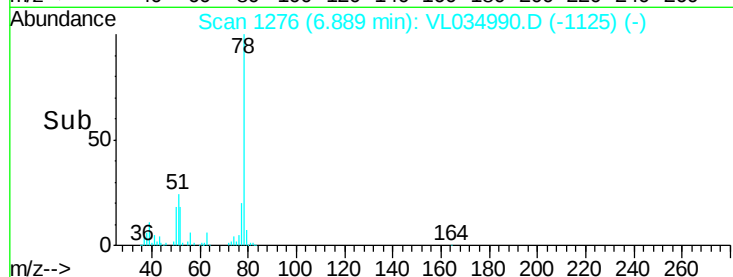
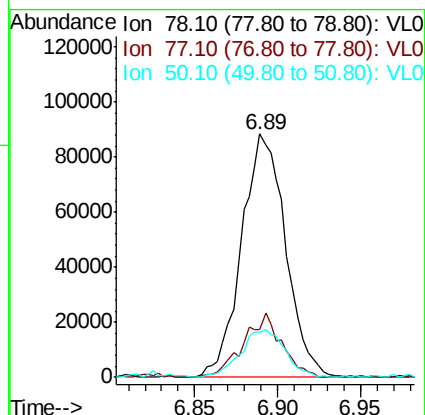
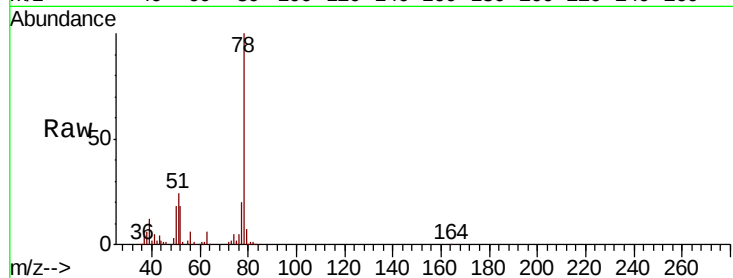
Tot Ion: 78 Resp: 163097

Ion Ratio Lower Upper

78 100

77 19.7 19.0 28.6

50 18.3 15.8 23.8



#38

Trichloroethene

Concen: 1.396 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Tgt Ion: 130 Resp: 107858

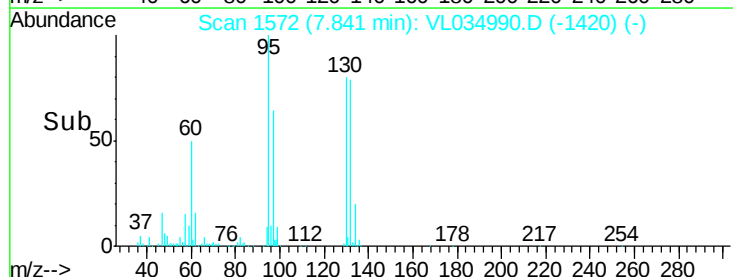
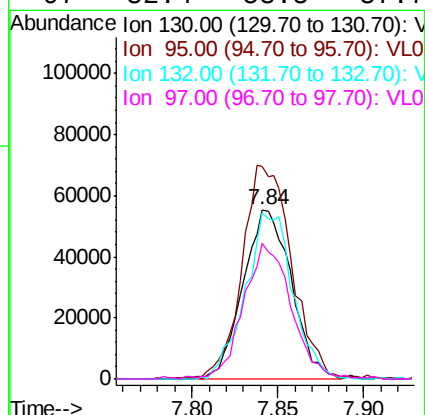
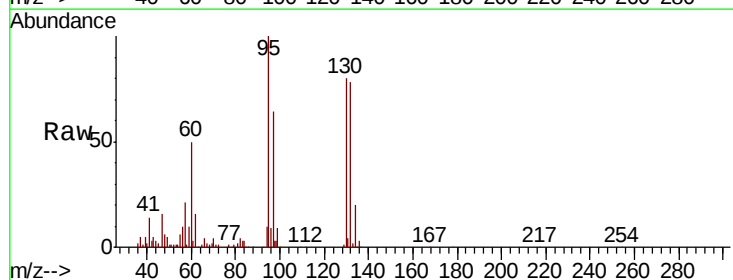
Ion Ratio Lower Upper

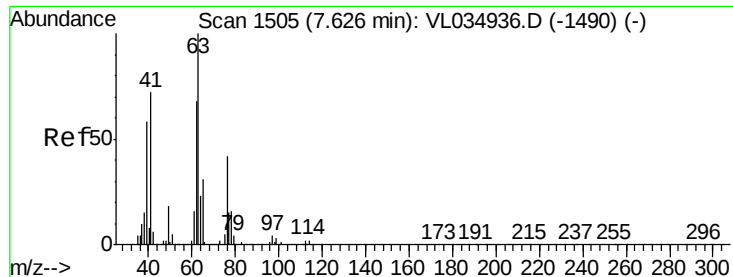
130 100

95 125.2 93.4 140.0

132 98.5 76.4 114.6

97 82.4 58.5 87.7





#39

1,2-Dichloropropane

Concen: 8.243 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

IA-5

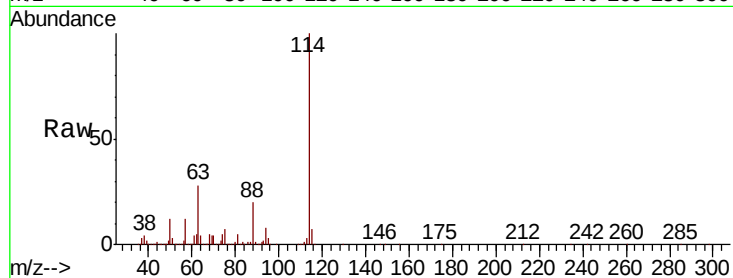
Tot Ion: 63 Resp: 659059

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

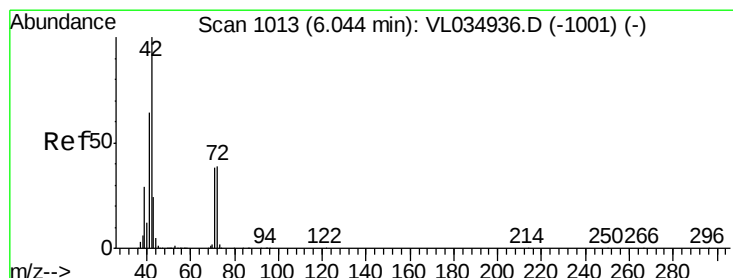
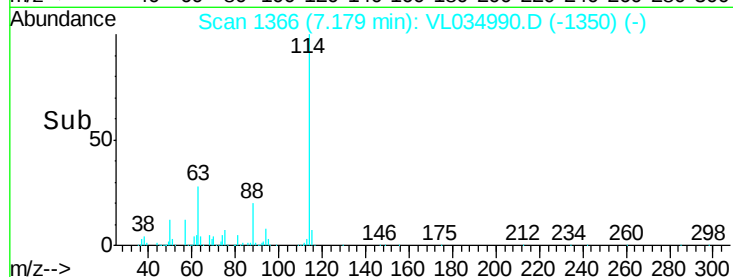
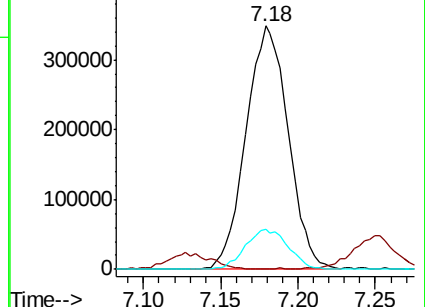
62 16.6 54.2 81.2#



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: 1.789 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

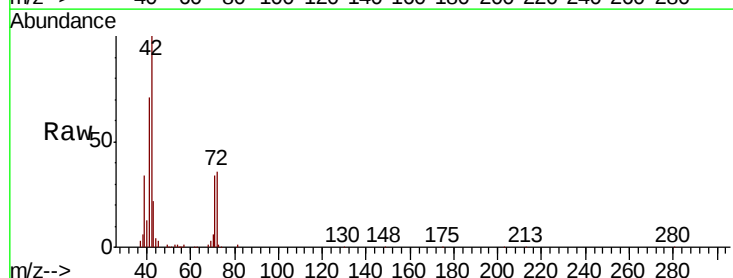
Tgt Ion: 42 Resp: 141617

Ion Ratio Lower Upper

42 100

72 37.5 31.4 47.0

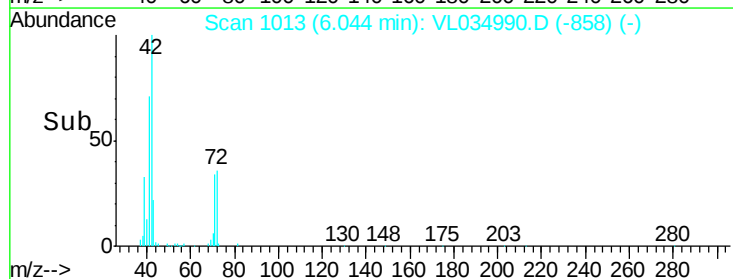
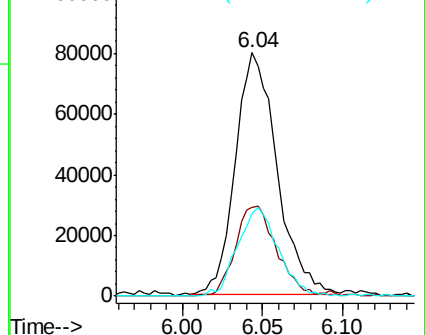
71 36.3 29.8 44.8

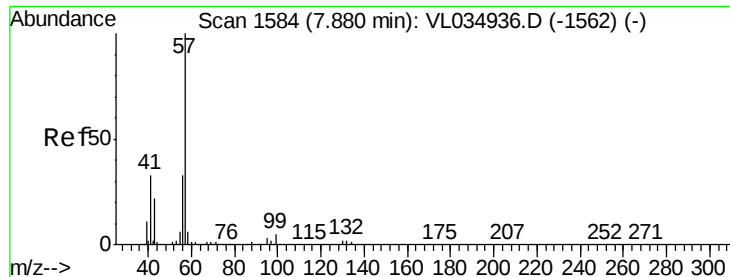


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

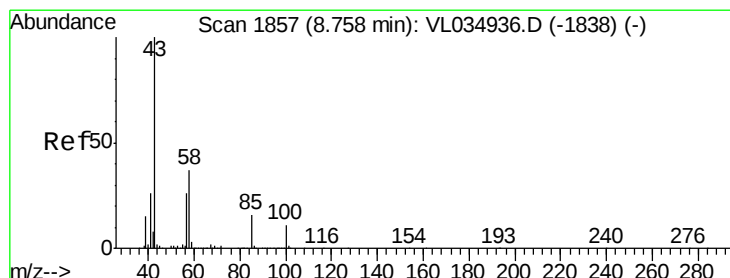
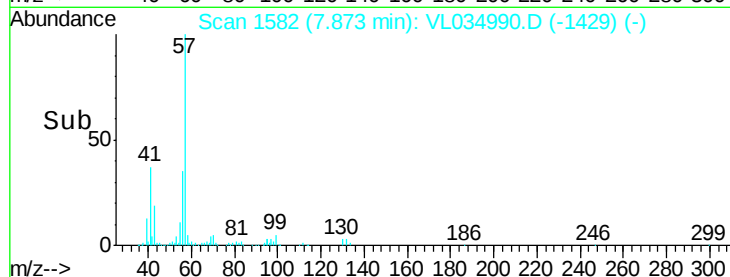
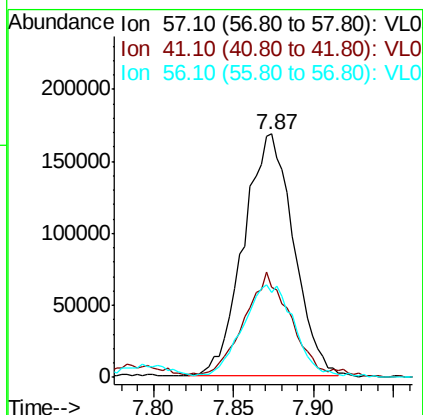
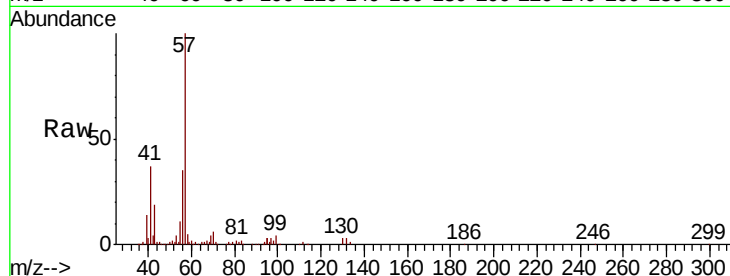




#44
 2,2,4-Trimethylpentane
 Concen: 1.018 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

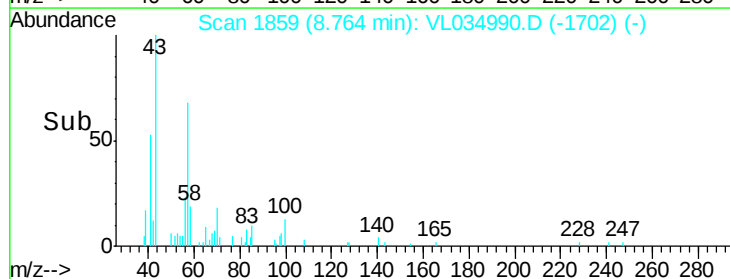
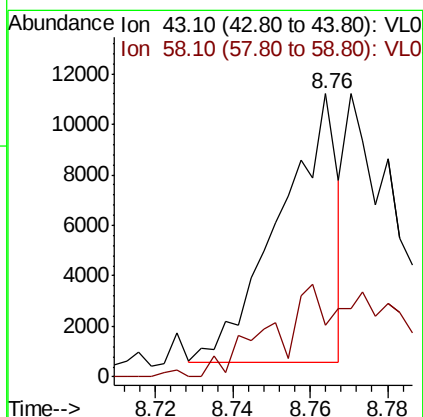
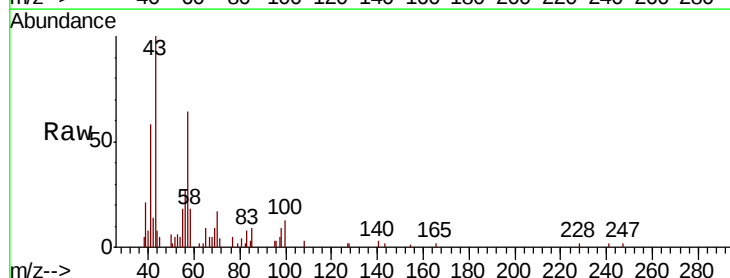
Instrument :
 MSVOA_L
 ClientSampled :
 IA-5

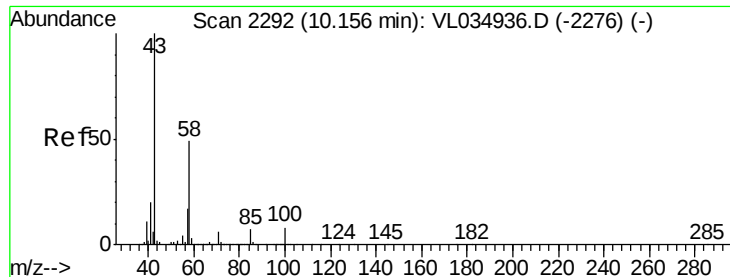
Tot Ion: 57 Resp: 361017
 Ion Ratio Lower Upper
 57 100
 41 42.5 26.4 39.6#
 56 40.1 25.5 38.3#



#50
 4-Methyl-2-Pentanone
 Concen: 0.051 ppbv
 RT: 8.76 min Scan# 1859
 Delta R.T. 0.01 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

Tgt Ion: 43 Resp: 11025
 Ion Ratio Lower Upper
 43 100
 58 83.4 29.1 43.7#

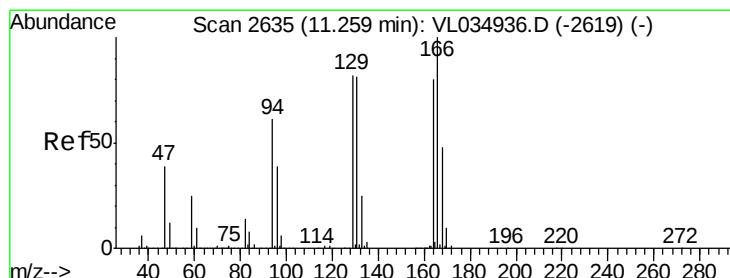
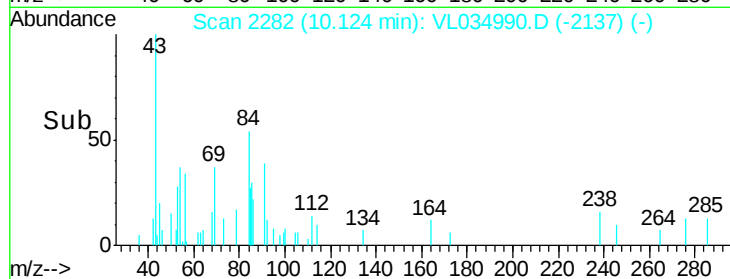
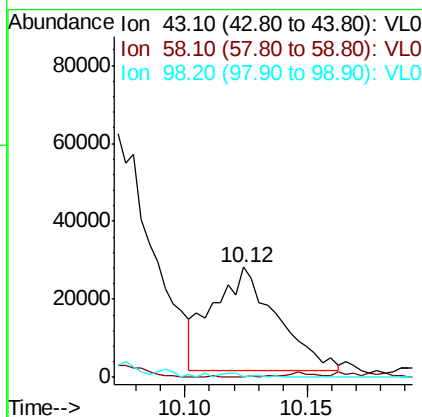
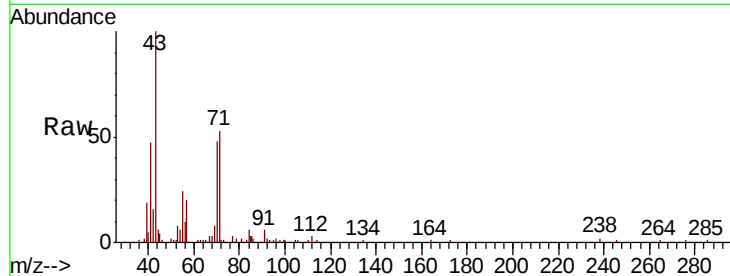




#51
2-Hexanone
Concen: 0.288 ppbv
RT: 10.12 min Scan# 2282
Delta R.T. -0.03 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

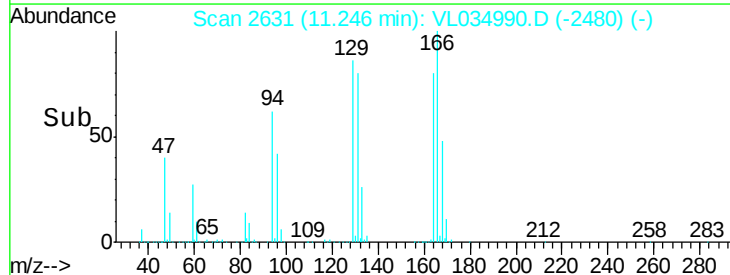
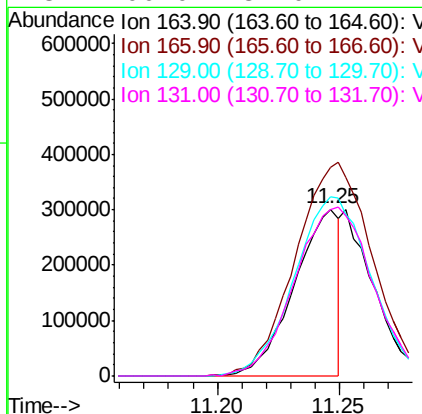
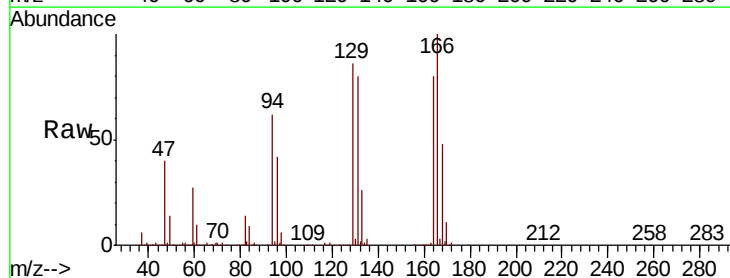
Instrument :
MSVOA_L
ClientSampleId :
IA-5

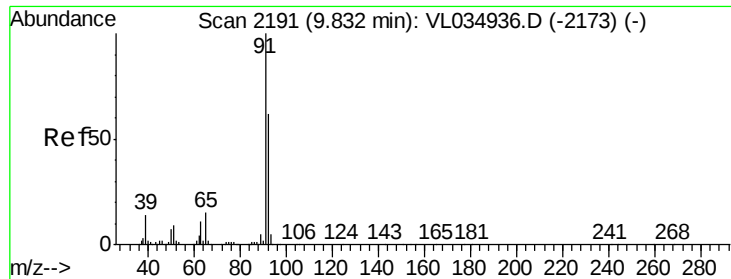
Tot Ion: 43 Resp: 48281
Ion Ratio Lower Upper
43 100
58 5.5 39.1 58.7#
98 0.0 0.3 0.5#



#52
Tetrachloroethene
Concen: 5.441 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.01 min
Lab File: VL034990.D
Acq: 12 May 2020 17:04

Tgt Ion: 164 Resp: 385893
Ion Ratio Lower Upper
164 100
166 125.1 100.7 151.1
129 107.7 83.0 124.4
131 100.0 81.0 121.4





#53

Toluene

Concen: 46.897 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

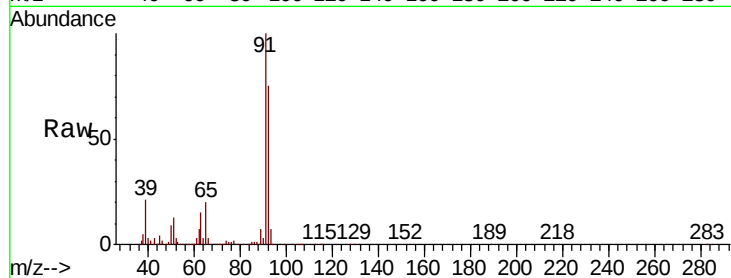
IA-5

Tot Ion: 91 Resp: 9915298

Ion Ratio Lower Upper

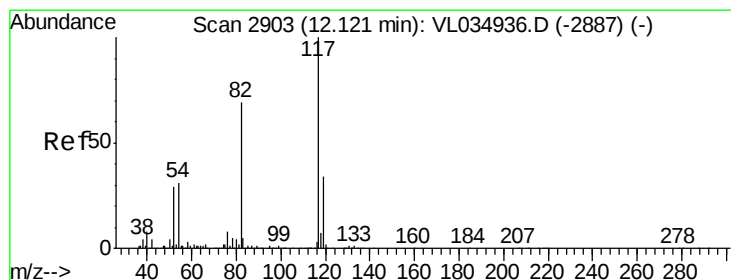
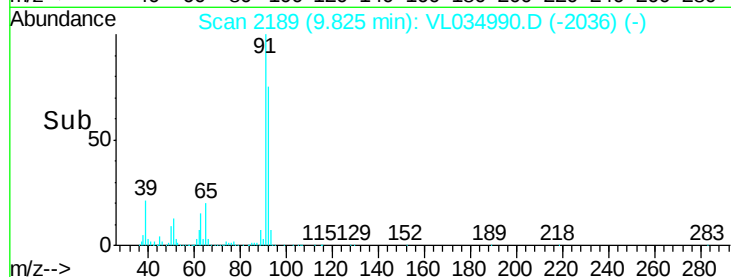
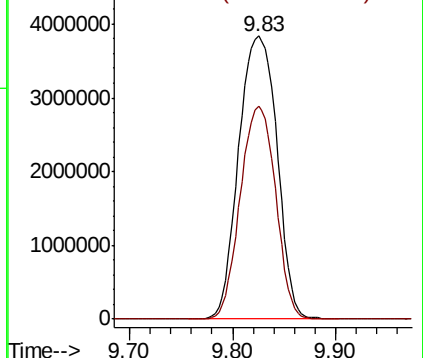
91 100

92 69.6 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# 2901

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

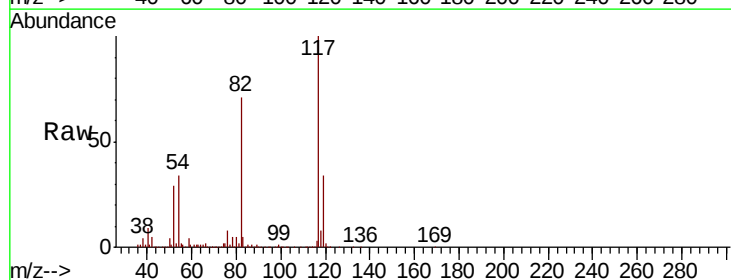
Tgt Ion: 117 Resp: 2260962

Ion Ratio Lower Upper

117 100

82 70.0 53.1 79.7

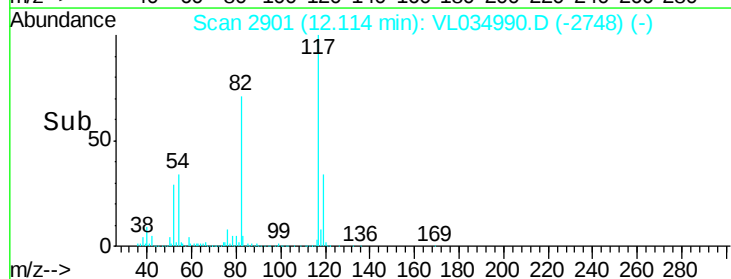
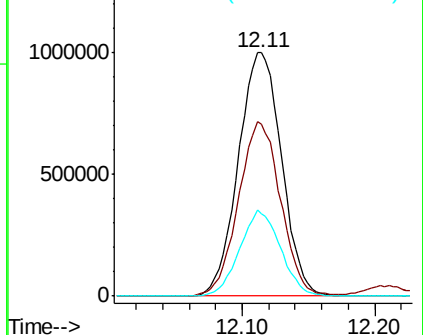
119 33.3 26.7 40.1

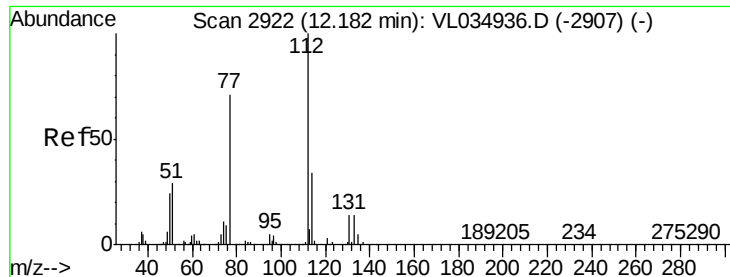


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#57

Chlorobenzene

Concen: 0.021 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

IA-5

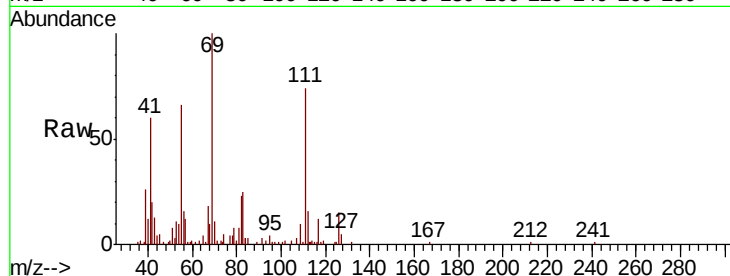
Tot Ion:112 Resp: 3708

Ion Ratio Lower Upper

112 100

77 5.2 57.0 85.6#

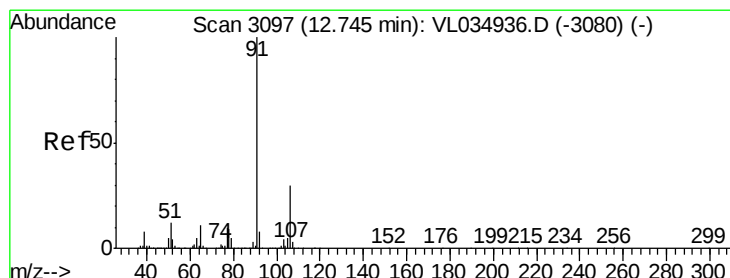
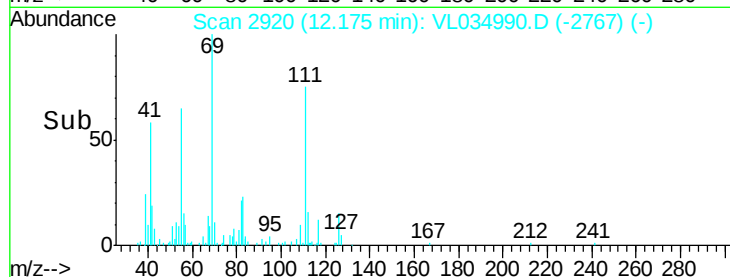
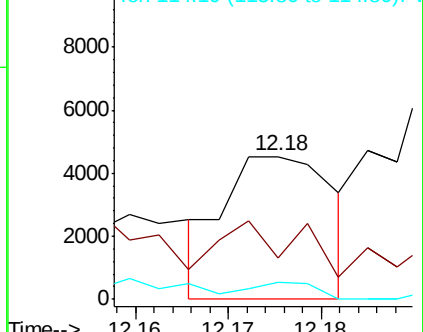
114 27.1 30.8 37.6#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 2.434 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. -0.01 min

Lab File: VL034990.D

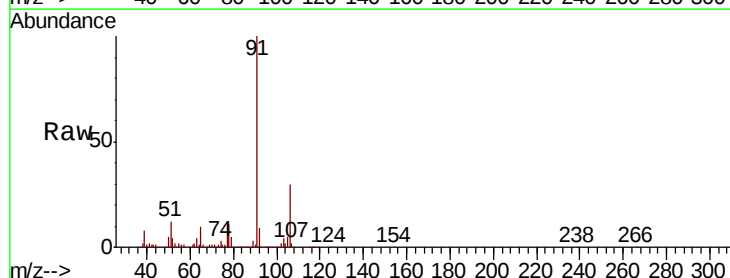
Acq: 12 May 2020 17:04

Tgt Ion: 91 Resp: 680563

Ion Ratio Lower Upper

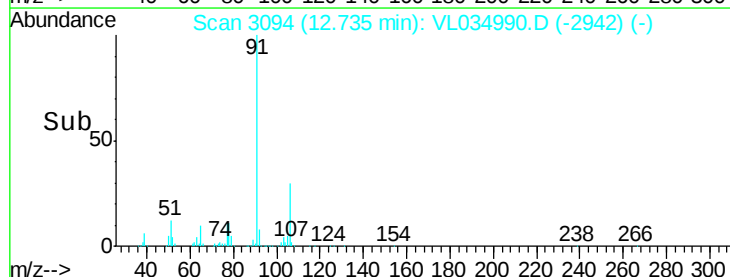
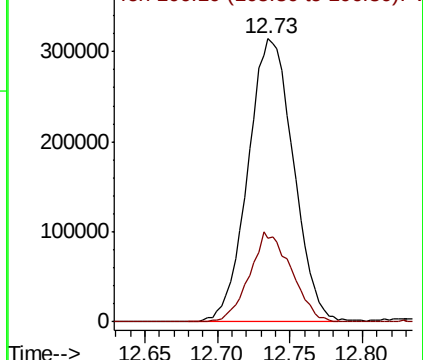
91 100

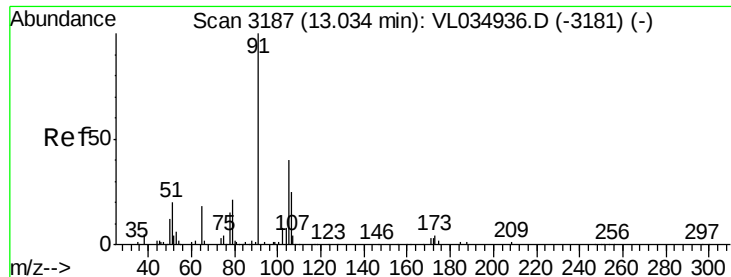
106 29.7 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 7.289 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.04 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampled :

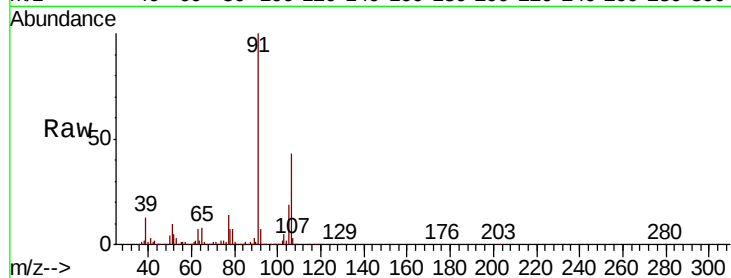
IA-5

Tot Ion: 91 Resp: 1793084

Ion Ratio Lower Upper

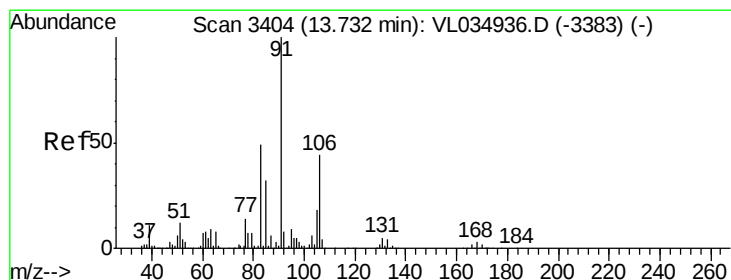
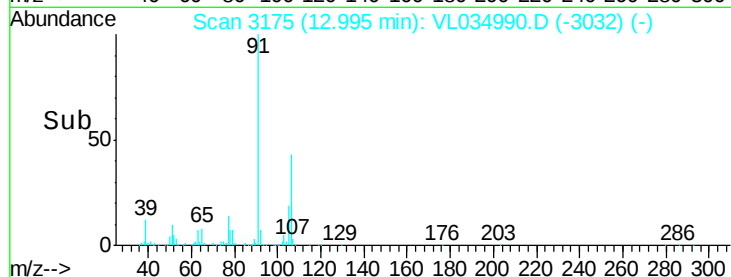
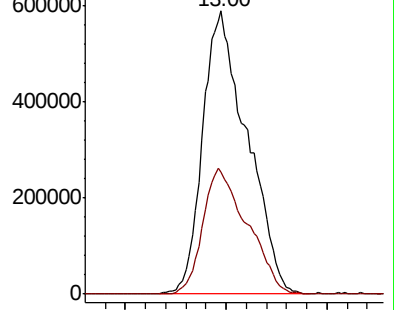
91 100

106 44.6 66.0 99.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 2.359 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. -0.01 min

Lab File: VL034990.D

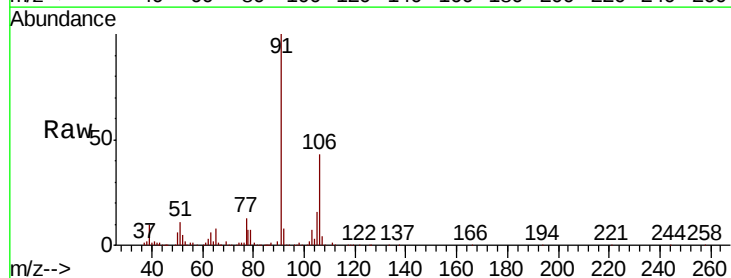
Acq: 12 May 2020 17:04

Tgt Ion: 91 Resp: 572706

Ion Ratio Lower Upper

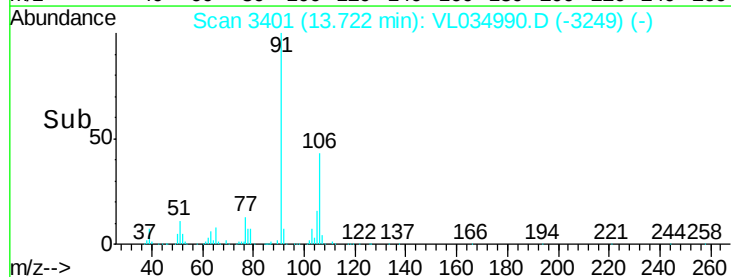
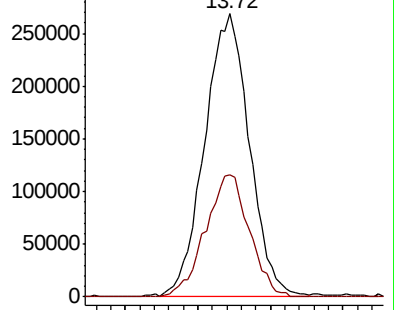
91 100

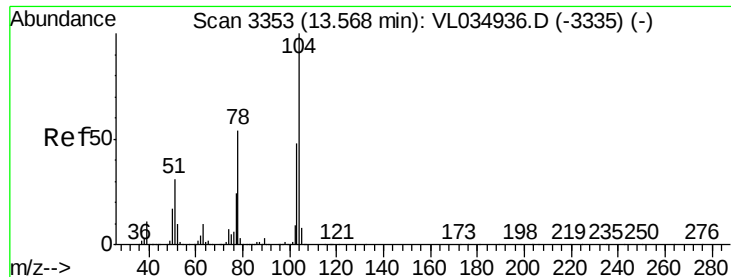
106 43.0 21.9 65.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 3.213 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

IA-5

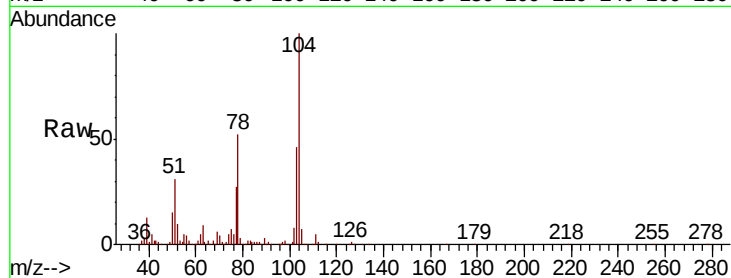
Tot Ion:104 Resp: 493641

Ion Ratio Lower Upper

104 100

78 54.5 43.7 65.5

103 47.5 38.8 58.2



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

13.56

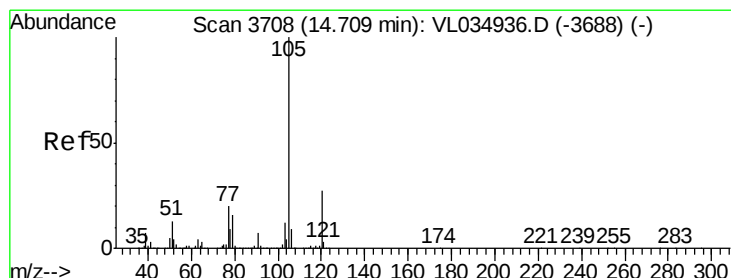
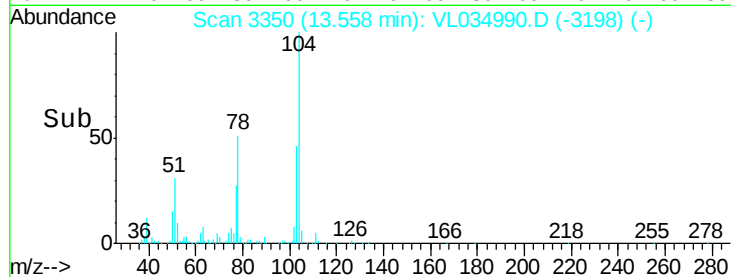
300000

200000

100000

0

Time-->



#62

Isopropylbenzene

Concen: 0.021 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. -0.01 min

Lab File: VL034990.D

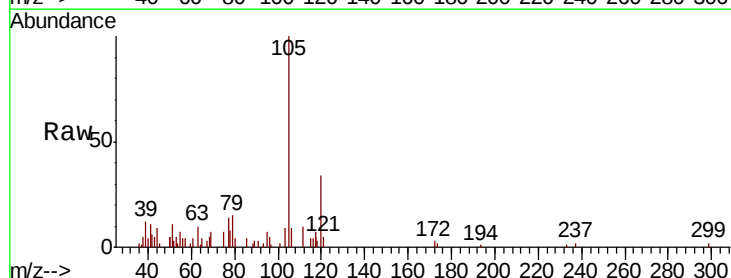
Acq: 12 May 2020 17:04

Tgt Ion:105 Resp: 7670

Ion Ratio Lower Upper

105 100

120 103.4 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

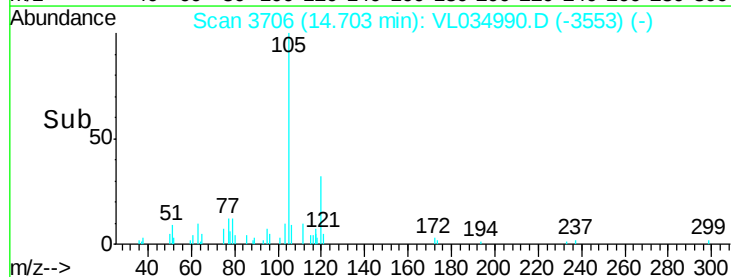
14.70

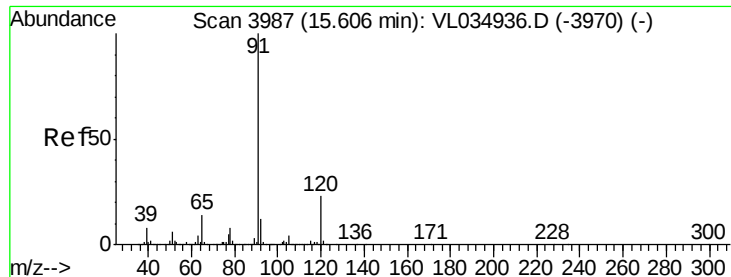
10000

5000

0

Time-->





#64

n-propylbenzene

Concen: 0.088 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

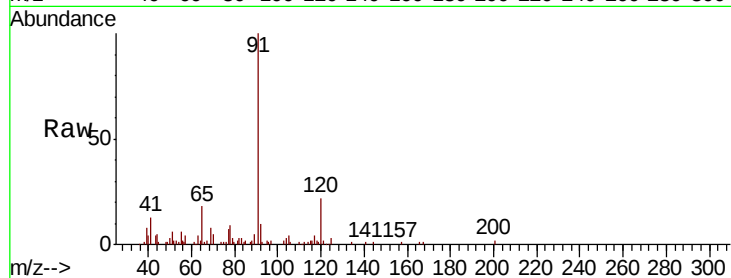
IA-5

Tot Ion:120 Resp: 8178

Ion Ratio Lower Upper

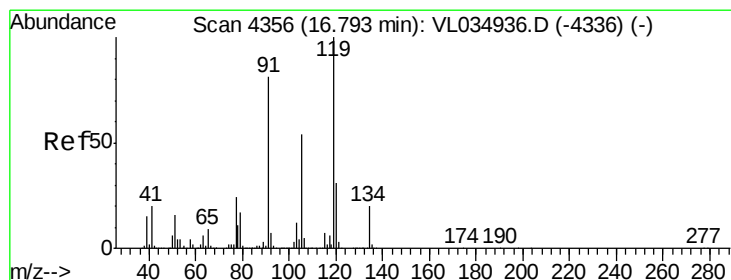
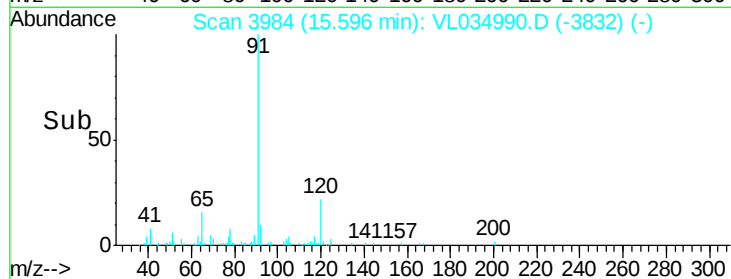
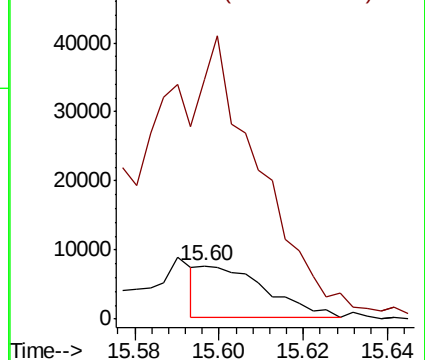
120 100

91 989.5 373.5 560.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.050 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. -0.00 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

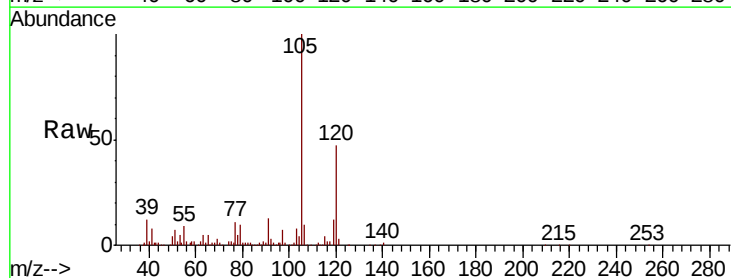
Tgt Ion:119 Resp: 15692

Ion Ratio Lower Upper

119 100

91 0.0 67.5 101.3#

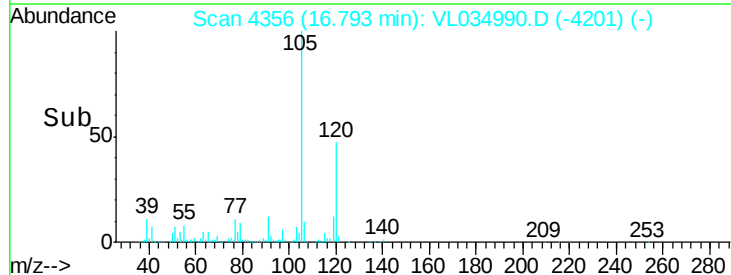
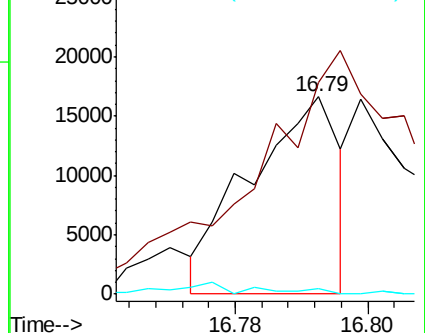
134 0.0 16.1 24.1#

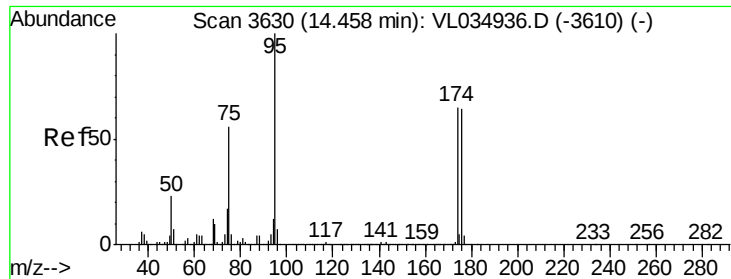


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

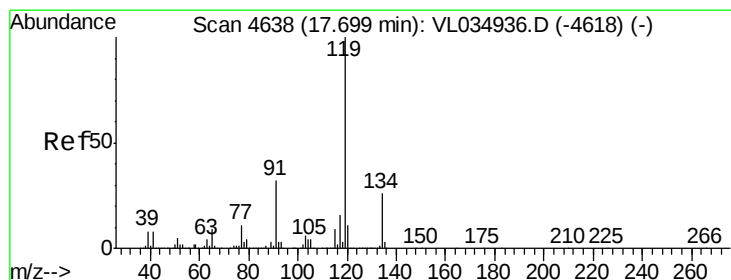
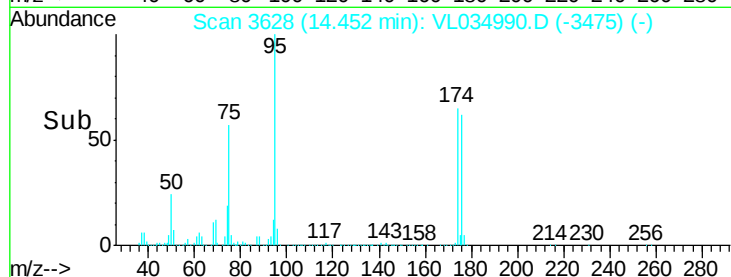
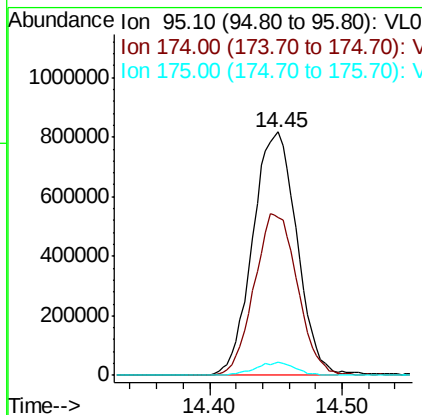
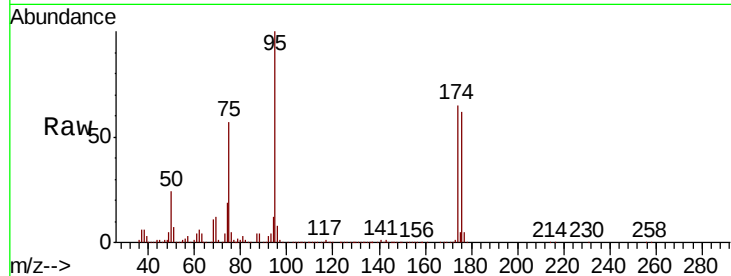




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.329 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. -0.01 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

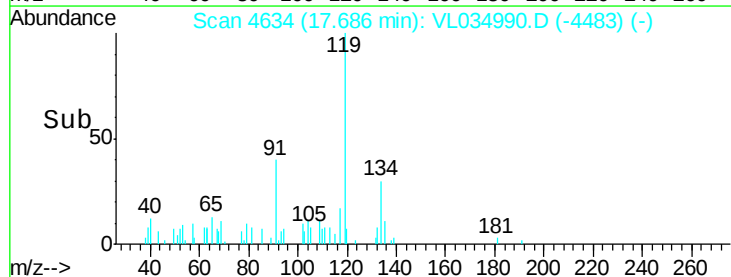
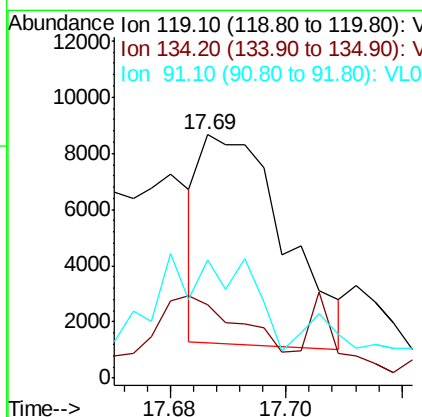
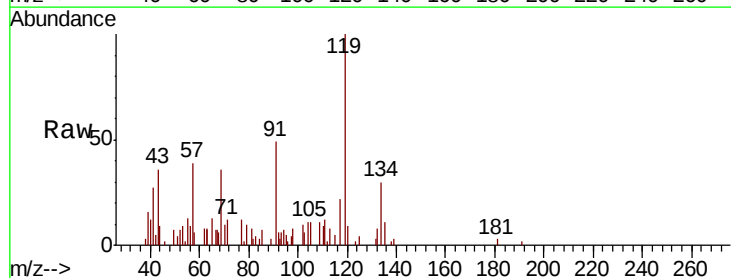
Instrument :
 MSVOA_L
 ClientSampled :
 IA-5

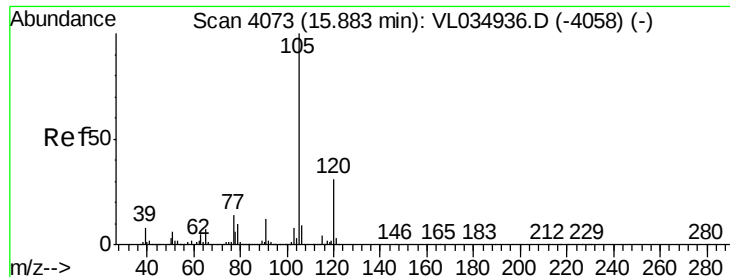
Tot Ion: 95 Resp: 1890300
 Ion Ratio Lower Upper
 95 100
 174 65.3 51.5 77.3
 175 4.9 3.8 5.8



#69
 p-Isopropyltoluene
 Concen: 0.020 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.01 min
 Lab File: VL034990.D
 Acq: 12 May 2020 17:04

Tgt Ion: 119 Resp: 7426
 Ion Ratio Lower Upper
 119 100
 134 83.1 20.3 30.5#
 91 0.0 24.6 36.8#





#72

4-Ethyltoluene

Concen: 0.320 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion:105 Resp: 86630

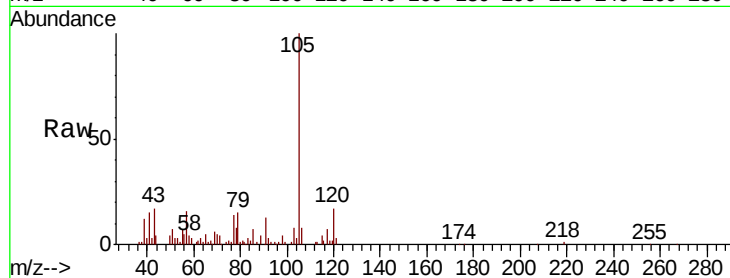
Ion Ratio Lower Upper

105 100

120 29.4 23.8 35.8

91 17.6 10.6 15.8#

77 19.4 11.6 17.4#

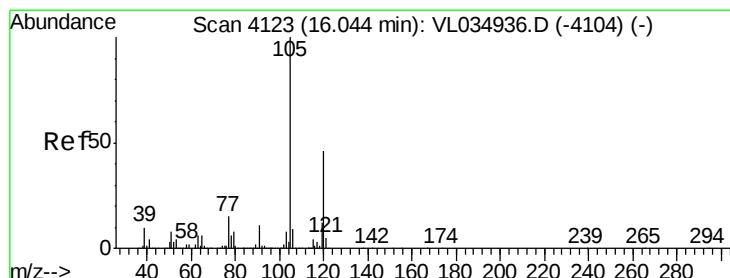
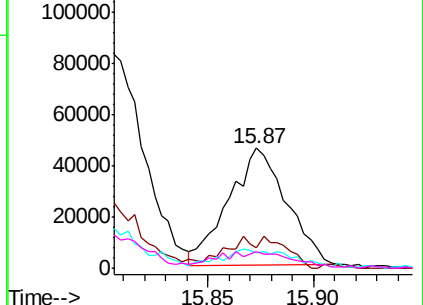
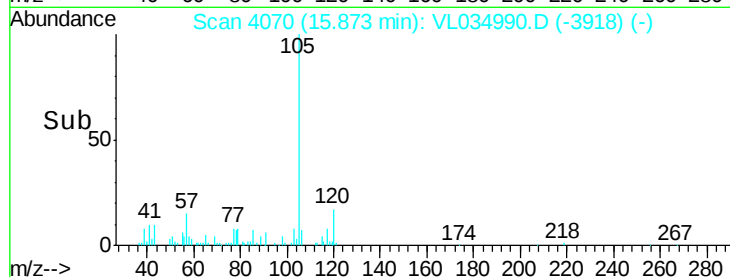


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.152 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.01 min

Lab File: VL034990.D

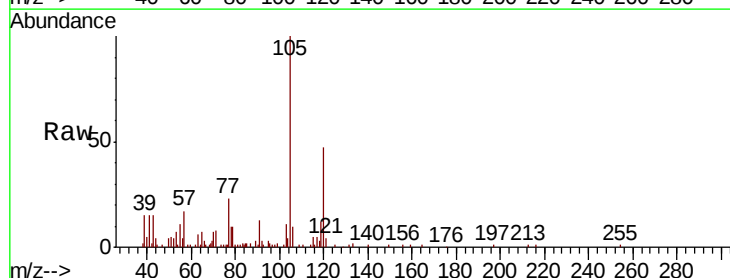
Acq: 12 May 2020 17:04

Tgt Ion:105 Resp: 39972

Ion Ratio Lower Upper

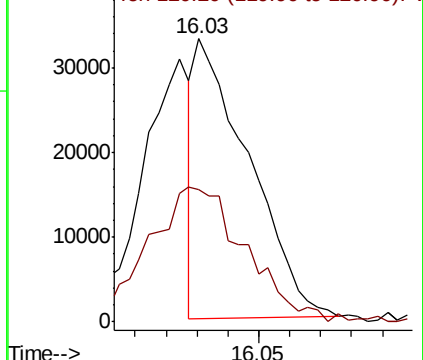
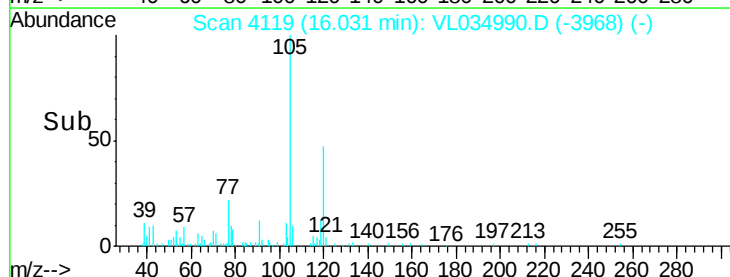
105 100

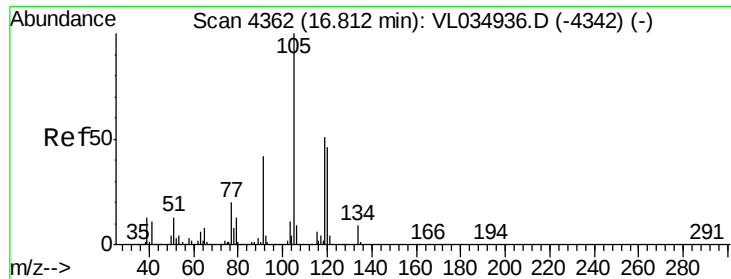
120 44.7 36.4 54.6



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: 1.089 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. -0.02 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

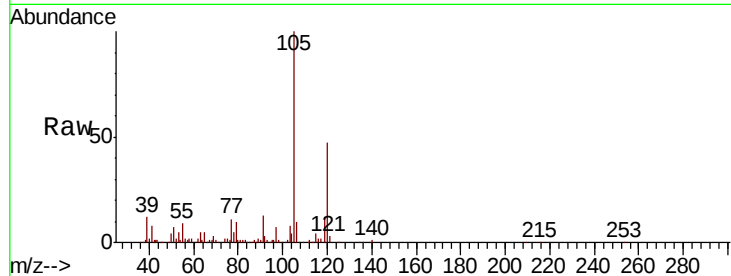
Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion:105	Resp:	313289
Ion Ratio	Lower	Upper
105	100	
120	46.6	36.8 55.2
91	11.7	35.4 53.0#
77	11.0	16.2 24.2#

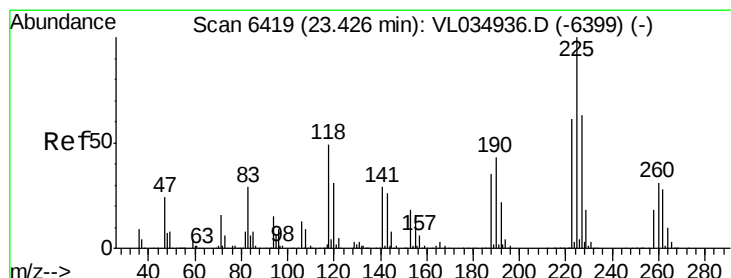
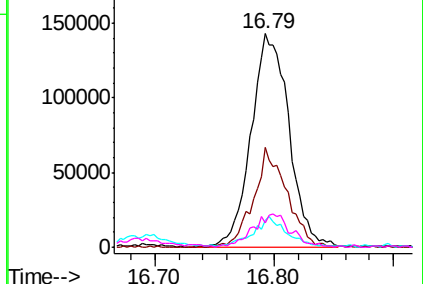
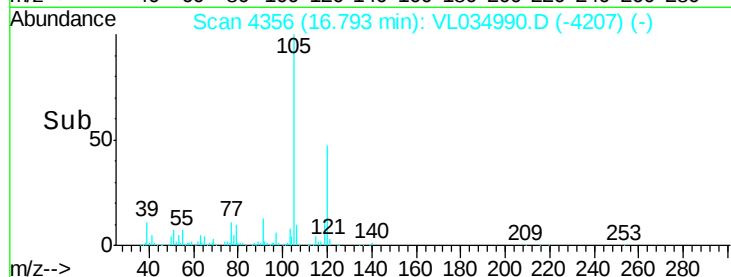


Abundance Ion 105.10 (104.80 to 105.80): V

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



#78

Hexachloro-1,3-Butadiene

Concen: 0.021 ppbv

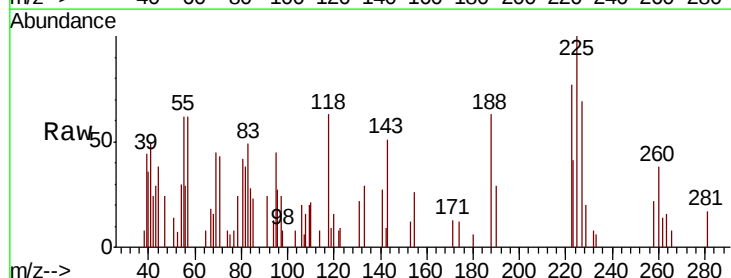
RT: 23.42 min Scan# 6417

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

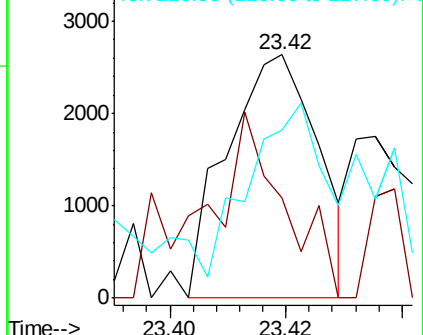
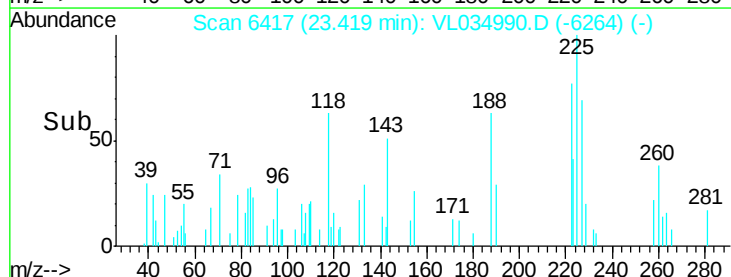
Tgt Ion:225	Resp:	2882
Ion Ratio	Lower	Upper
225	100	
223	97.7	49.8 74.8#
227	134.7	51.8 77.6#

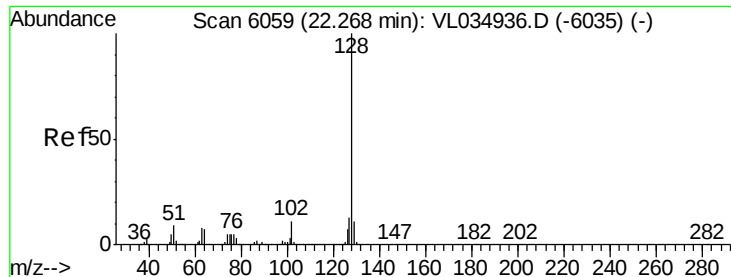


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.029 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. -0.01 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

Instrument :

MSVOA_L

ClientSampleId :

IA-5

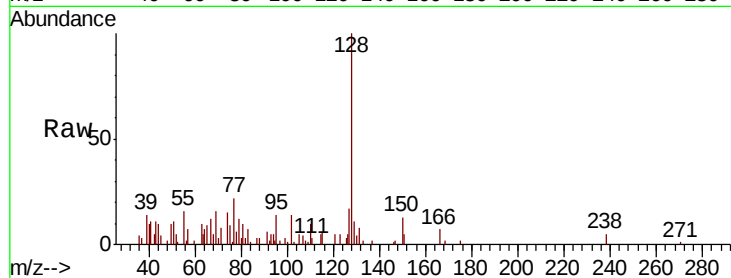
Tot Ion:128 Resp: 6523

Ion Ratio Lower Upper

128 100

127 23.4 10.5 15.7#

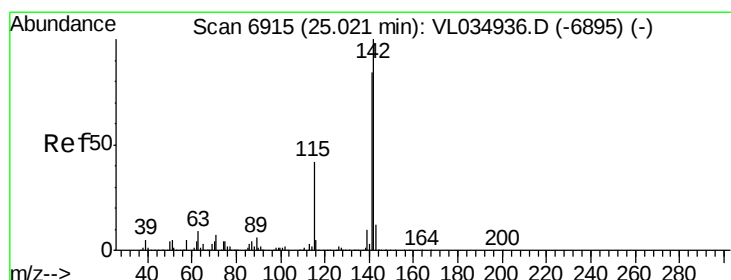
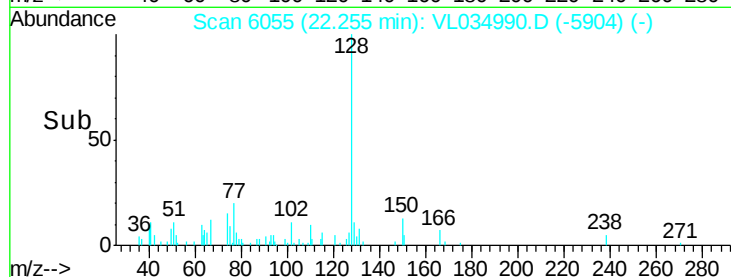
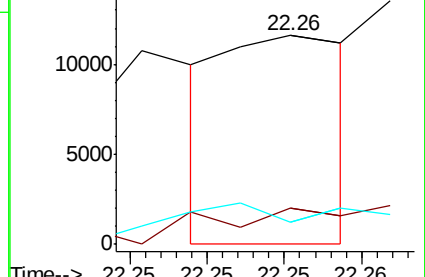
129 0.0 9.0 13.4#



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: 0.110 ppbv

RT: 25.02 min Scan# 6914

Delta R.T. -0.00 min

Lab File: VL034990.D

Acq: 12 May 2020 17:04

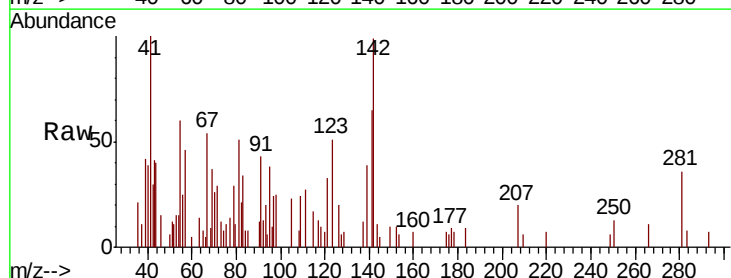
Tgt Ion:142 Resp: 6059

Ion Ratio Lower Upper

142 100

141 87.5 68.6 102.8

115 73.1 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

