

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035717.D
 Acq On : 23 Sep 2020 13:45
 Operator : SY/AP
 Sample : L4079-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

Quant Time: Sep 24 08:26:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1134794	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4336181	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4351294	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3292448	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	55426	0.298	ppbv 90
4) Chloromethane	3.14	50	31944	0.487	ppbv # 86
9) Propene	3.20	41	53217	1.201	ppbv 88
10) Heptane	8.14	43	182687	1.478	ppbv # 19
11) Trichlorofluoromethane	3.95	101	66015	0.248	ppbv 91
12) 1,1,2-Trichlorotrifluoroet	4.49	101	14331	0.072	ppbv 100
13) Ethanol	3.61	45	128593	11.764	ppbv 100
15) Acetone	3.85	43	1353203	11.082	ppbv 89
16) 1,3-Butadiene	3.30	39	72201	1.616	ppbv # 7
17) tert-Butyl alcohol	4.31	59	57802	0.435	ppbv # 72
19) Isopropyl Alcohol	3.97	45	173013	2.605	ppbv # 89
20) Methylene Chloride	4.35	84	226584	2.526	ppbv 95
21) Allyl Chloride	4.38	41	22229	0.376	ppbv # 47
23) Vinyl Acetate	5.07	43	552851	3.697	ppbv # 11
25) Ethyl Acetate	5.70	43	269753	1.228	ppbv # 75
26) Hexane	5.70	57	446019	3.704	ppbv # 50
27) Carbon Disulfide	4.56	76	18806	0.105	ppbv # 40
30) Cyclohexane	7.15	84	99313	0.836	ppbv 98
34) 2-Butanone	5.26	43	71793	0.501	ppbv 98
35) Carbon Tetrachloride	7.03	117	8994	0.040	ppbv 97
36) Benzene	6.90	78	58196	0.206	ppbv # 90
37) 1,2-Dichloroethane	6.33	62	5756	0.039	ppbv # 76
39) 1,2-Dichloropropane	7.19	63	852349	8.323	ppbv # 30
41) Tetrahydrofuran	6.13	42	3267	0.045	ppbv # 68
42) Bromodichloromethane	7.81	83	49227	0.208	ppbv # 25
43) Methyl Methacrylate	8.01	69	8830	0.079	ppbv # 10
44) 2,2,4-Trimethylpentane	7.89	57	4413208	10.885	ppbv 96
50) 4-Methyl-2-Pentanone	8.78	43	28787	0.137	ppbv # 78
51) 2-Hexanone	10.13	43	79516	0.471	ppbv # 25
52) Tetrachloroethene	11.25	164	40430	0.298	ppbv 95
53) Toluene	9.83	91	341811	1.026	ppbv 98
58) Ethyl Benzene	12.74	91	193687	0.443	ppbv 92
59) m/p-Xylene	13.02	91	44337	0.116	ppbv # 26
60) o-Xylene	13.72	91	50278	0.130	ppbv 100
62) Isopropylbenzene	14.70	105	146256	0.244	ppbv 93
64) n-propylbenzene	15.59	120	119767	0.684	ppbv 69
67) sec-Butylbenzene	17.33	105	57275	0.076	ppbv 95
70) n-Butylbenzene	18.58	91	62892	0.100	ppbv # 75
71) 2-Chlorotoluene	15.59	91	529529	1.213	ppbv # 39
72) 4-Ethyltoluene	15.87	105	21386	0.047	ppbv # 53
73) 1,3,5-Trimethylbenzene	16.03	105	20859	0.048	ppbv 85

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration

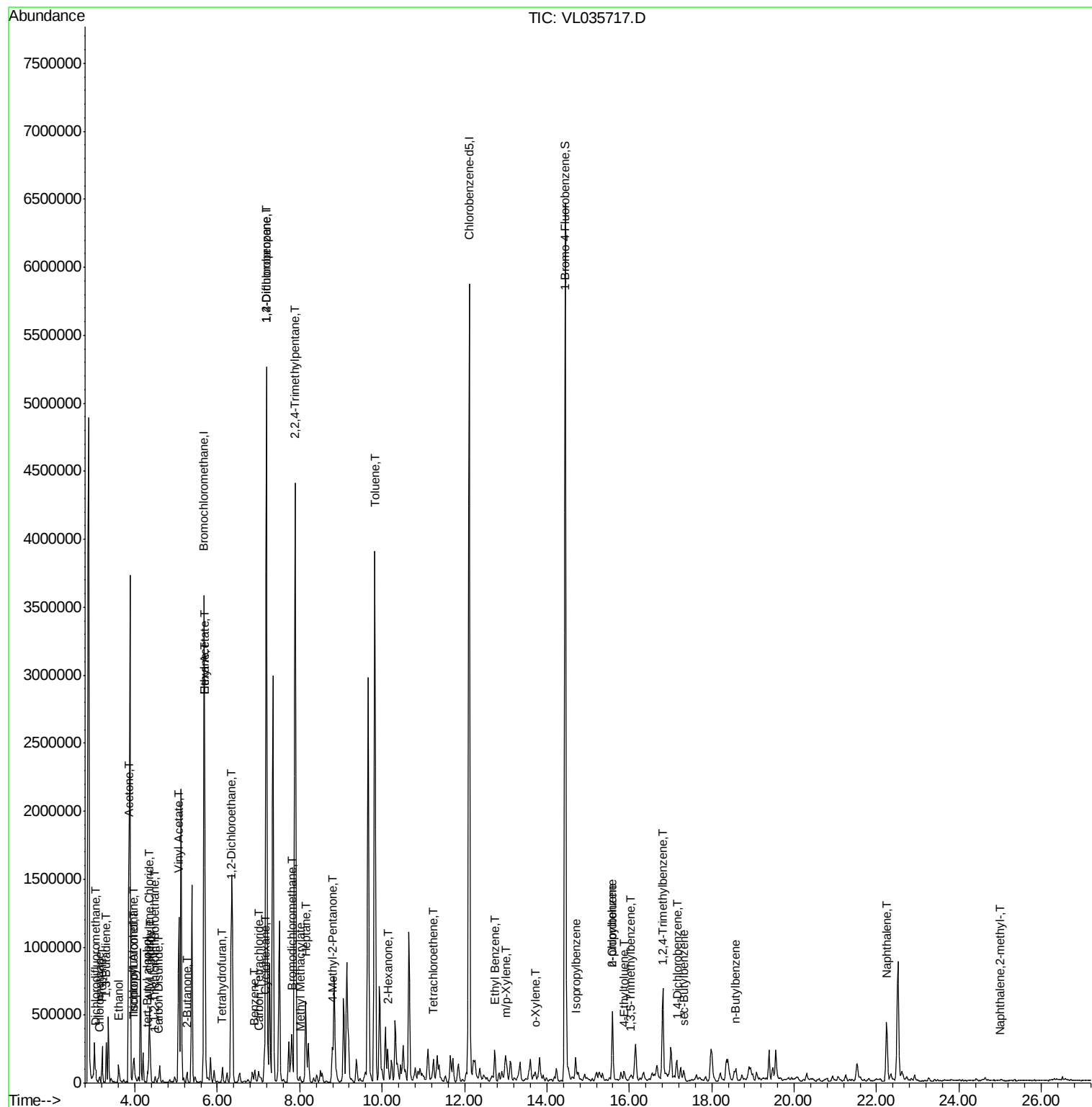
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.79	105	106609	0.219	ppbv #	74
76) 1,4-Dichlorobenzene	17.17	146	9722	0.031	ppbv #	76
79) Naphthalene	22.25	128	584841	1.259	ppbv	96
80) Naphthalene,2-methyl-	25.00	142	4508	0.041	ppbv #	86

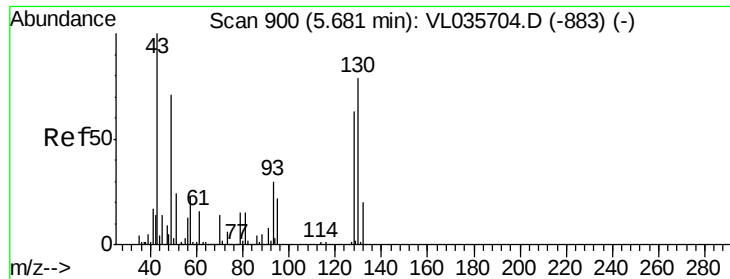
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

B-2

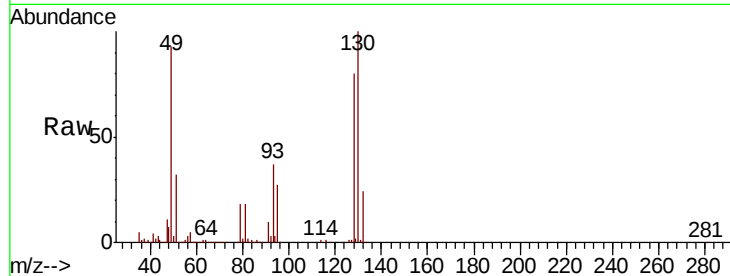
Tot Ion: 49 Resp: 1134794

Ion Ratio Lower Upper

49 100

128 84.2 43.1 129.4

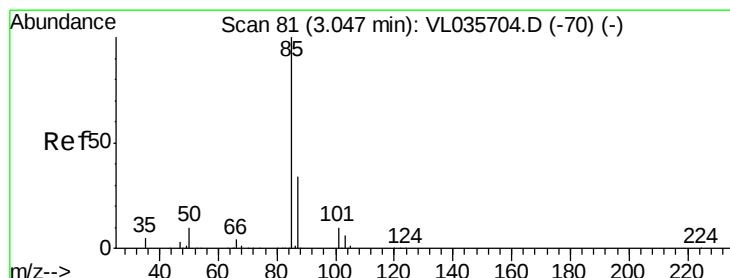
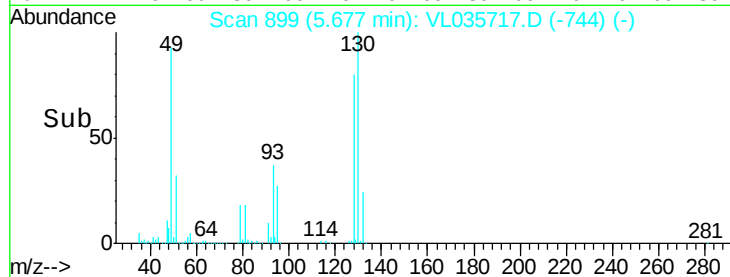
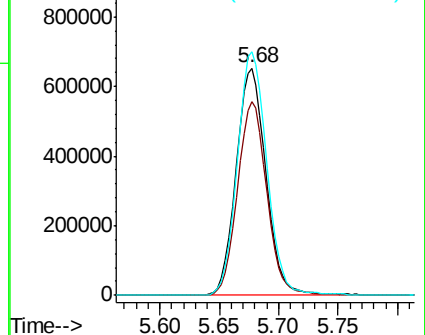
130 107.3 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.298 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL035717.D

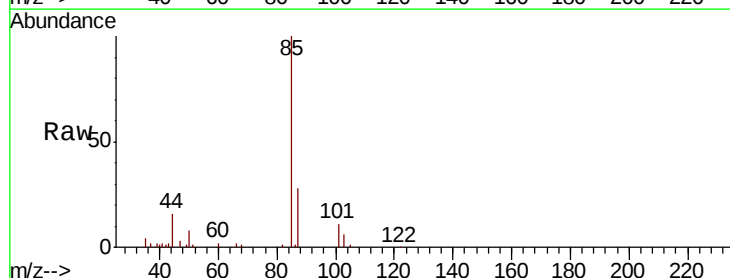
Acq: 23 Sep 2020 13:45

Tgt Ion: 85 Resp: 55426

Ion Ratio Lower Upper

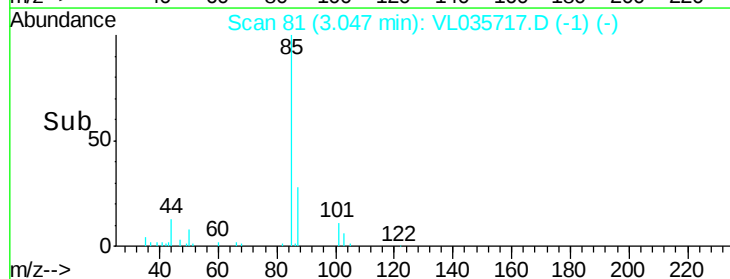
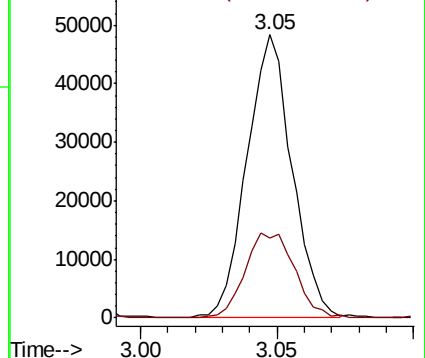
85 100

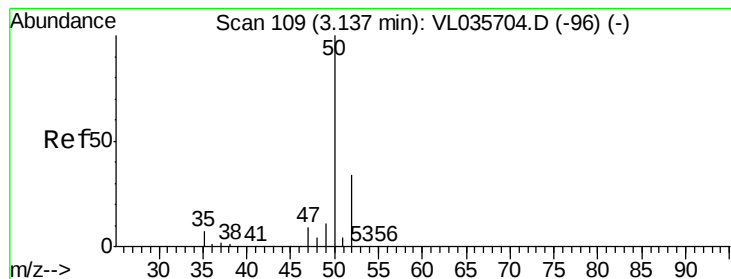
87 28.2 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.487 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

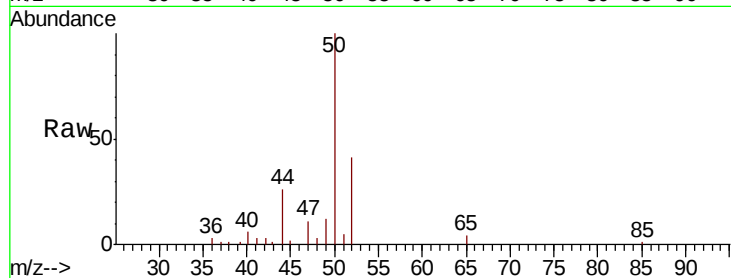
B-2

Tot Ion: 50 Resp: 31944

Ion Ratio Lower Upper

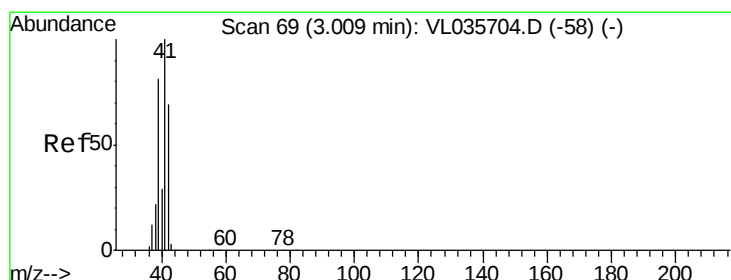
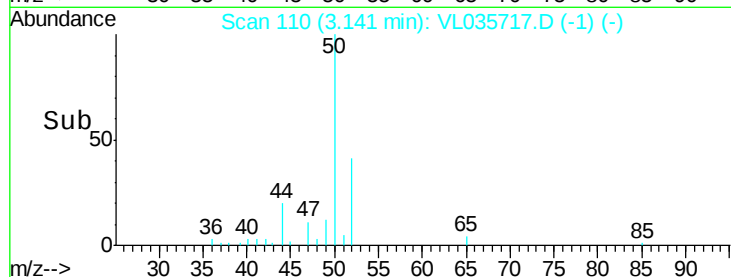
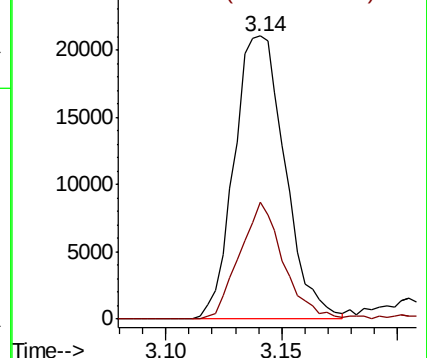
50 100

52 41.3 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 1.201 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.20 min

Lab File: VL035717.D

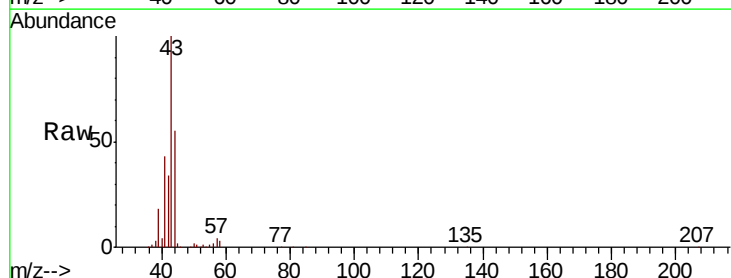
Acq: 23 Sep 2020 13:45

Tgt Ion: 41 Resp: 53217

Ion Ratio Lower Upper

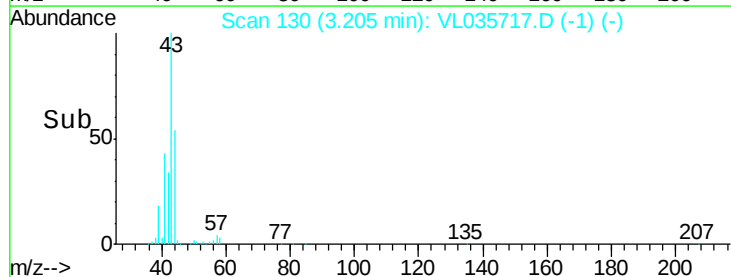
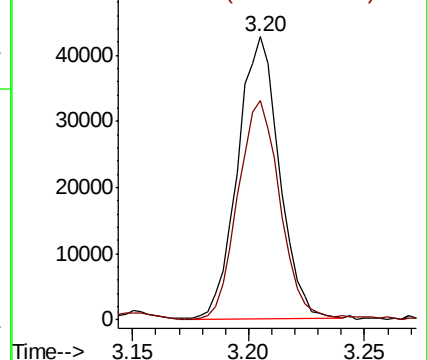
41 100

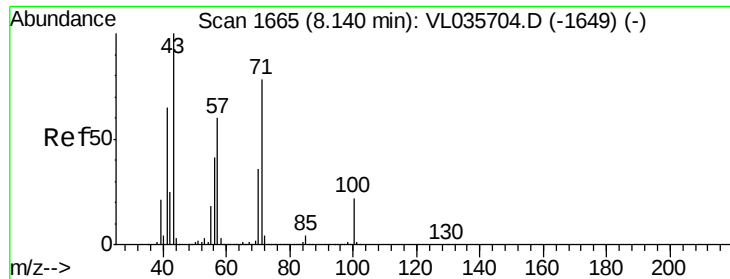
42 79.9 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.478 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

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ClientSampleId :

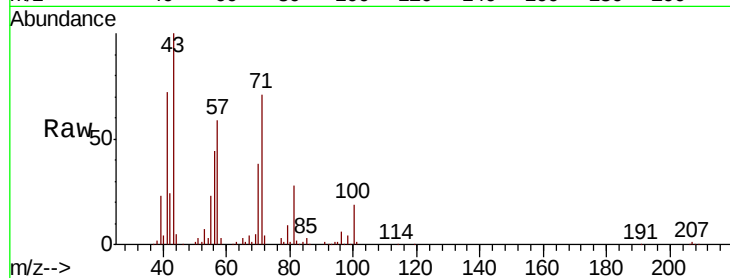
B-2

Tot Ion: 43 Resp: 182687

Ion Ratio Lower Upper

43 100

57 0.0 50.4 75.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.14

100000

80000

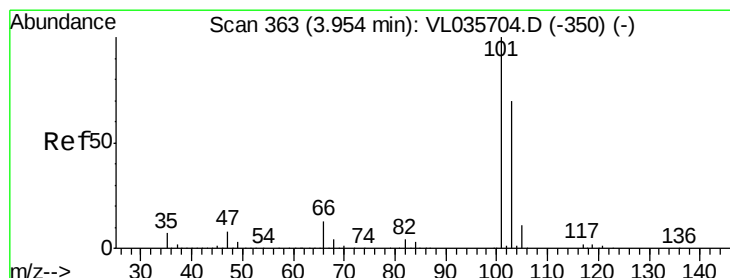
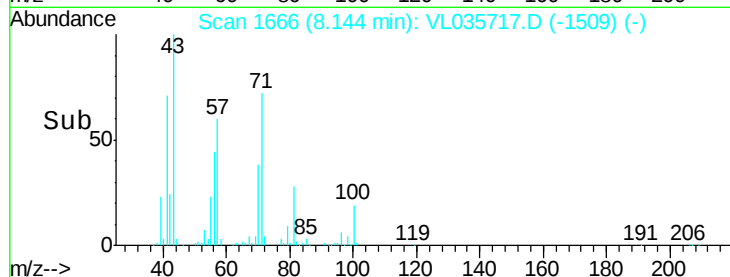
60000

40000

20000

0

Time--> 8.05 8.10 8.15 8.20



#11

Trichlorofluoromethane

Concen: 0.248 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL035717.D

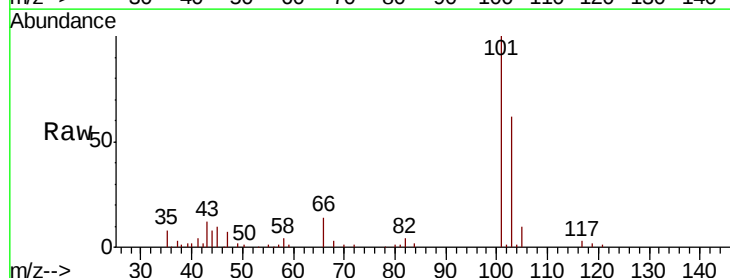
Acq: 23 Sep 2020 13:45

Tgt Ion:101 Resp: 66015

Ion Ratio Lower Upper

101 100

103 62.2 55.6 83.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

50000

40000

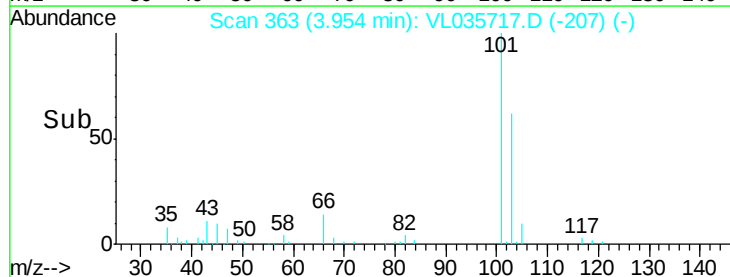
30000

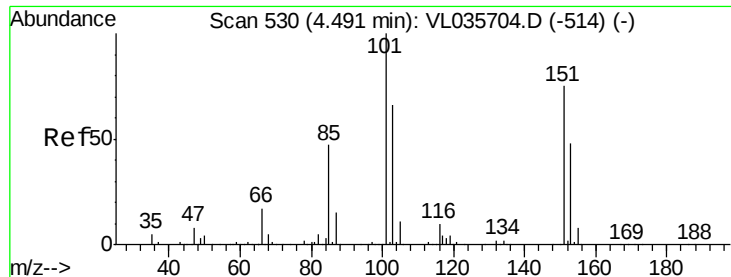
20000

10000

0

Time--> 3.90 3.95 4.00

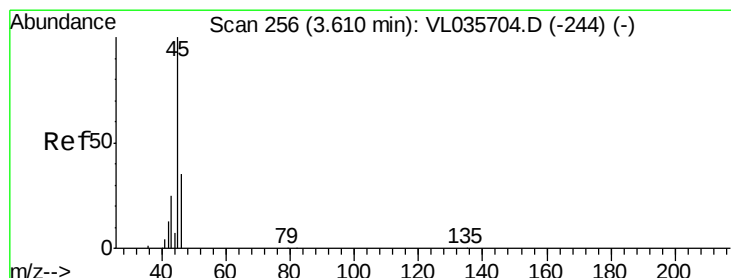
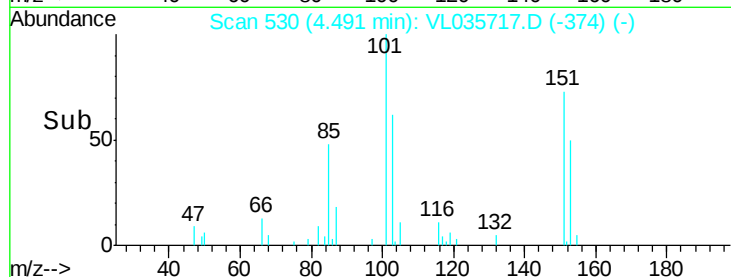
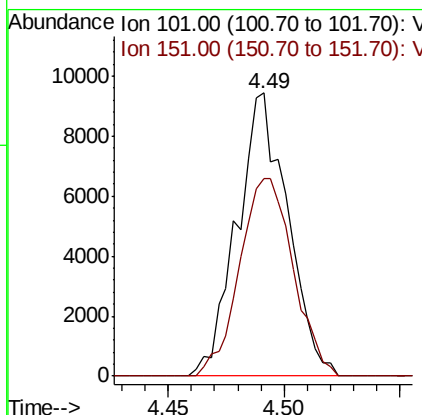
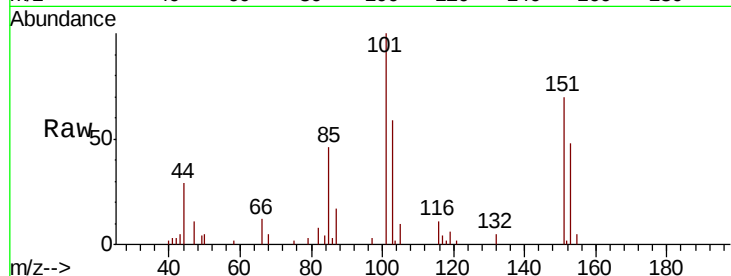




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.072 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VL035717.D
 Acq: 23 Sep 2020 13:45

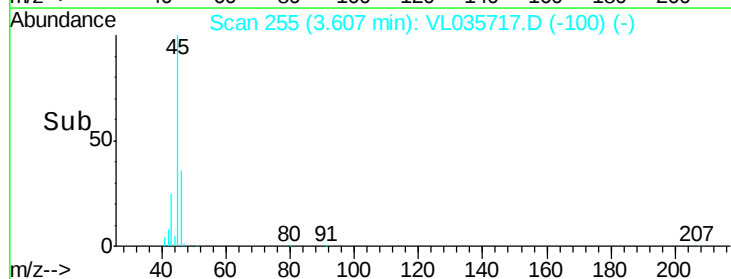
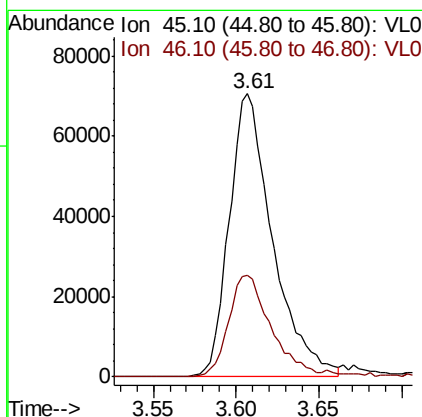
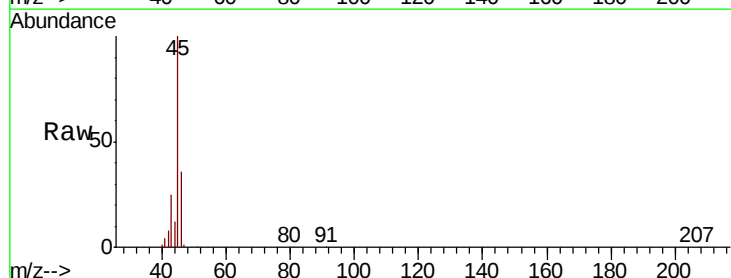
Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

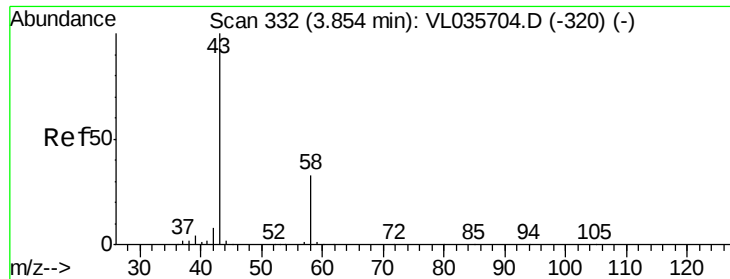
Tot Ion:101 Resp: 14331
 Ion Ratio Lower Upper
 101 100
 151 73.8 59.1 88.7



#13
 Ethanol
 Concen: 11.764 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL035717.D
 Acq: 23 Sep 2020 13:45

Tgt Ion: 45 Resp: 128593
 Ion Ratio Lower Upper
 45 100
 46 36.9 14.7 58.7





#15

Acetone

Concen: 11.082 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

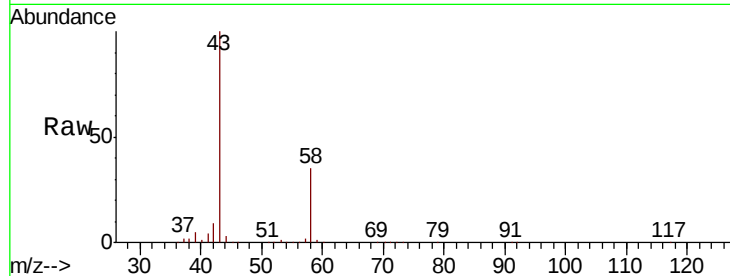
B-2

Tot Ion: 43 Resp: 1353203

Ion Ratio Lower Upper

43 100

58 40.4 27.3 40.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

1000000

800000

600000

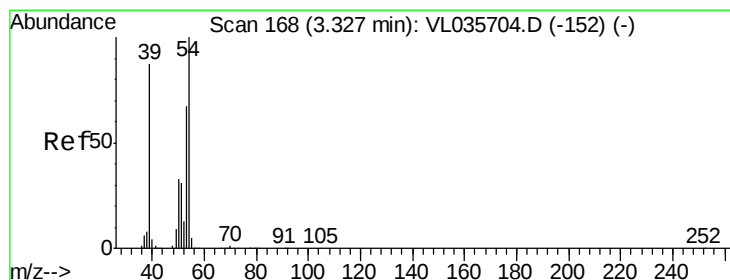
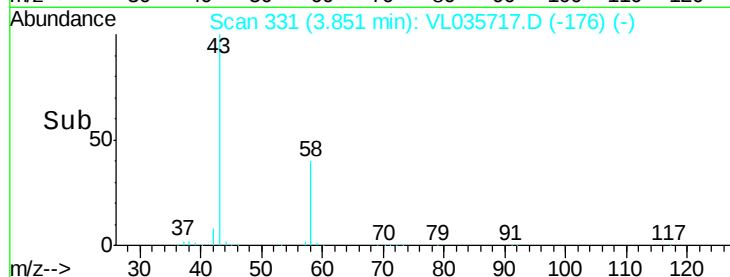
400000

200000

0

Time-->

3.80 3.82 3.84 3.86 3.88



#16

1,3-Butadiene

Concen: 1.616 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL035717.D

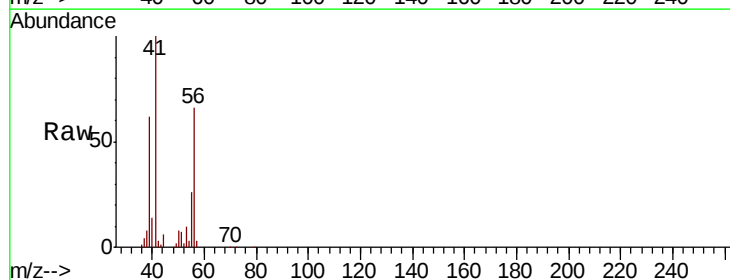
Acq: 23 Sep 2020 13:45

Tgt Ion: 39 Resp: 72201

Ion Ratio Lower Upper

39 100

54 11.3 87.4 131.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

60000

50000

40000

30000

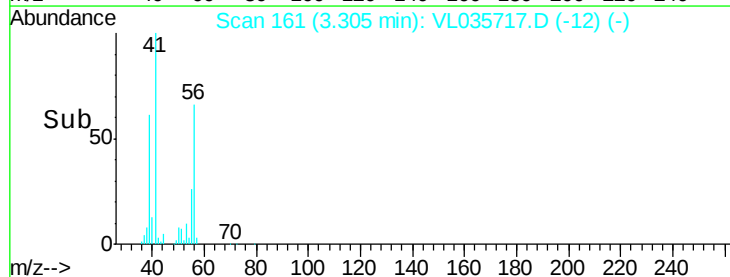
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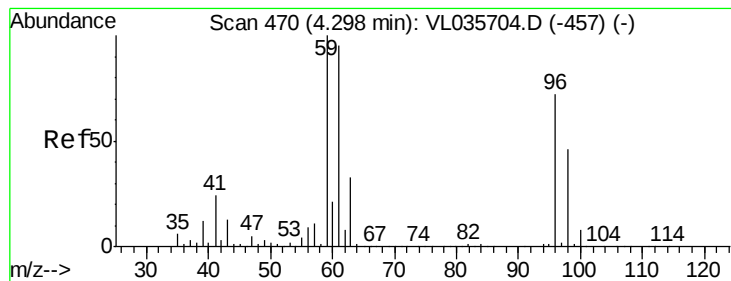
10000

0

Time-->

3.25 3.30 3.35





#17

tert-Butyl alcohol

Concen: 0.435 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.01 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

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ClientSampleId :

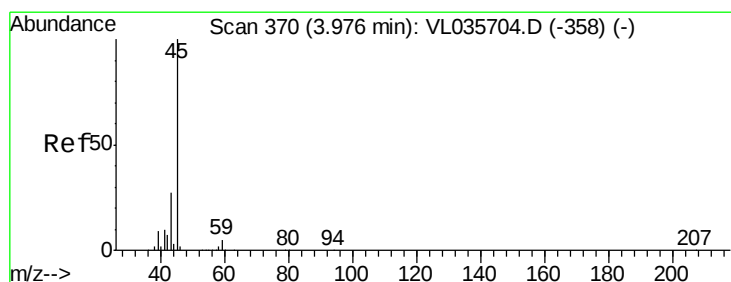
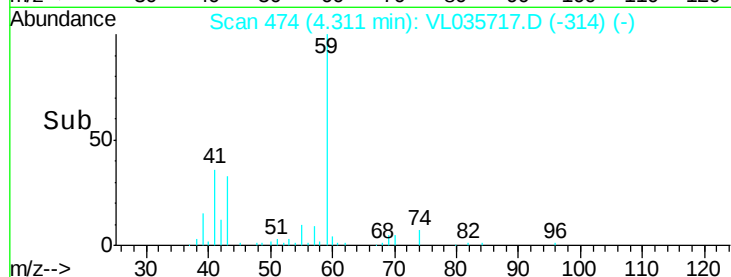
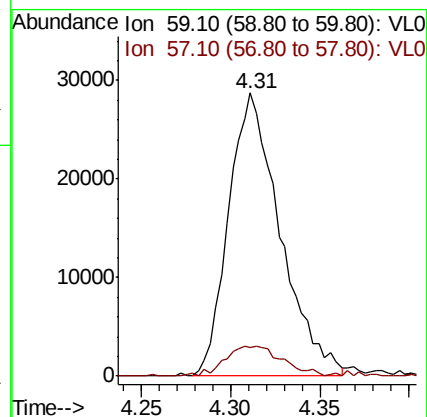
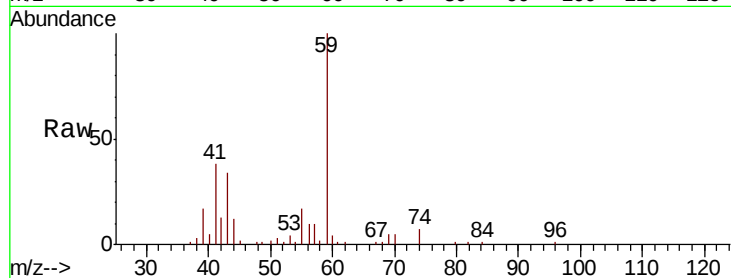
B-2

Tot Ion: 59 Resp: 57802

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 2.605 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.00 min

Lab File: VL035717.D

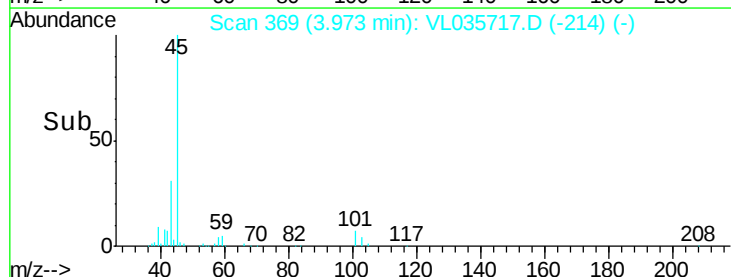
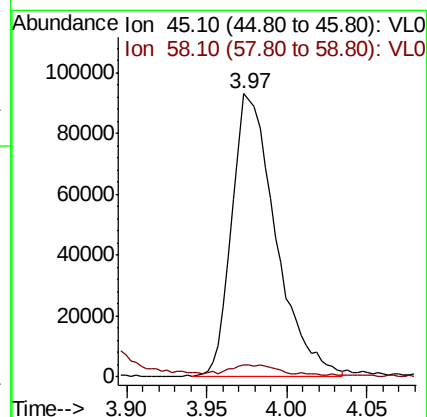
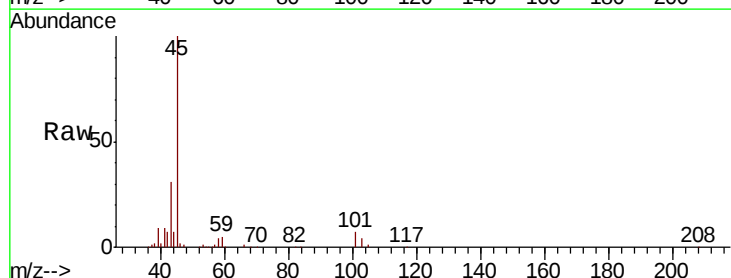
Acq: 23 Sep 2020 13:45

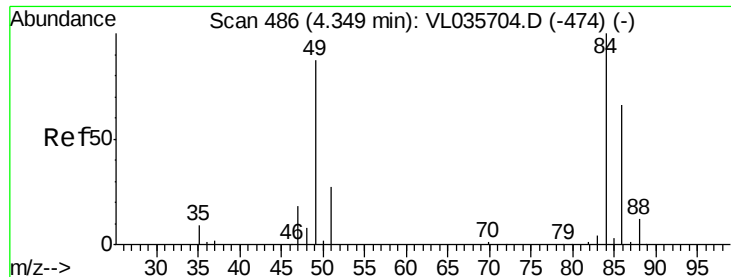
Tgt Ion: 45 Resp: 173013

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#

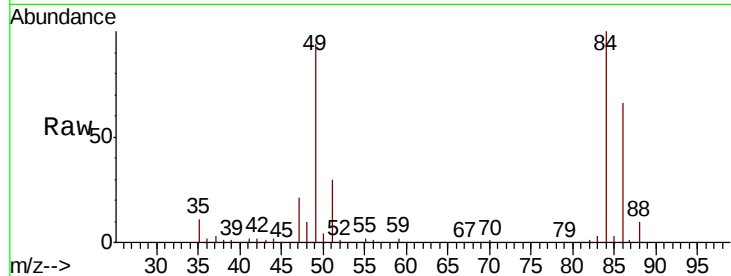




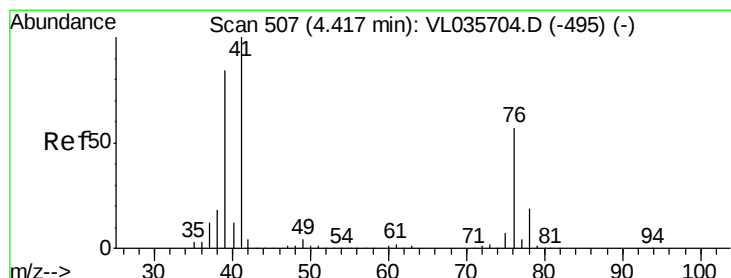
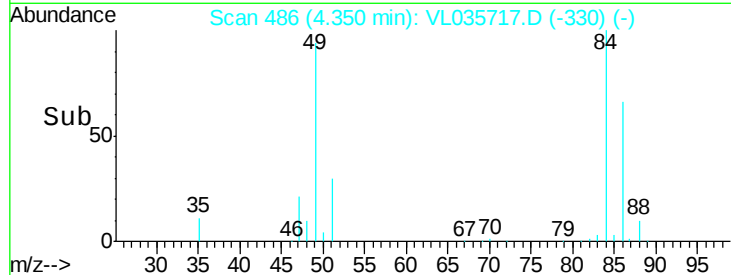
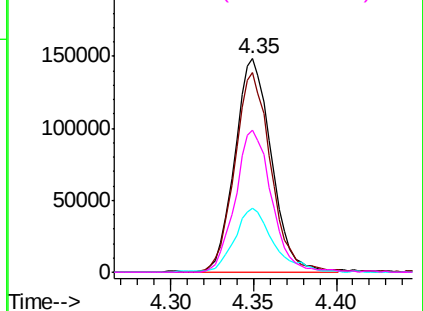
#20
Methvlene Chloride
Concen: 2.526 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

Instrument :
MSVOA_L
ClientSampled :
B-2

Tot Ion:	84	Resp:	226584
Ion	Ratio	Lower	Upper
84	100		
49	93.7	69.8	104.6
51	29.6	21.8	32.8
86	66.6	52.6	78.8

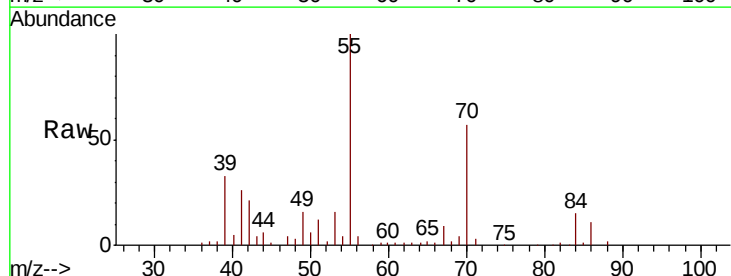


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

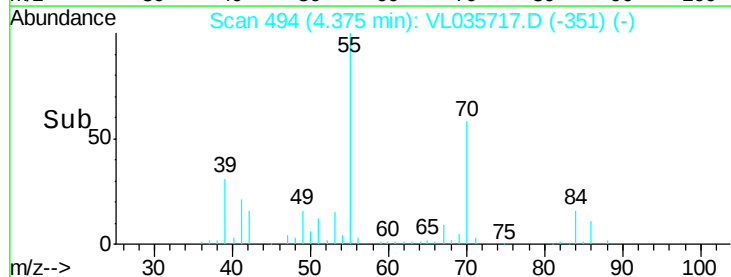
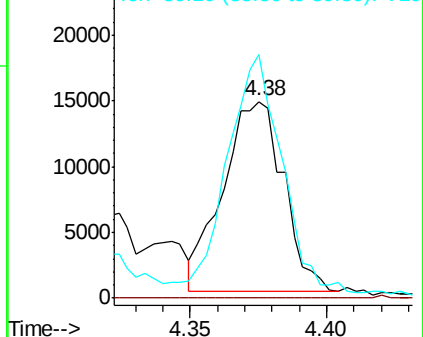


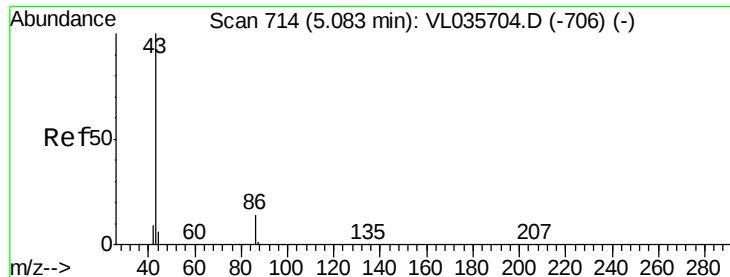
#21
Allyl Chloride
Concen: 0.376 ppbv
RT: 4.38 min Scan# 494
Delta R.T. -0.04 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

Tgt Ion:	41	Resp:	22229
Ion	Ratio	Lower	Upper
41	100		
76	0.0	44.8	67.2#
39	119.2	68.4	102.6#



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: 3.697 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.02 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampled :

B-2

Tot Ion: 43 Resp: 552851

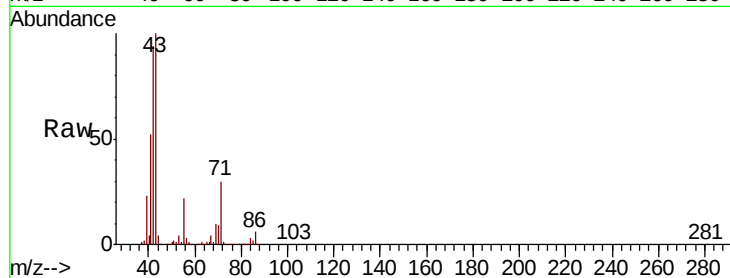
Ion Ratio Lower Upper

43 100

86 6.2 9.7 14.5#

42 94.2 7.9 11.9#

44 3.3 4.8 7.2#

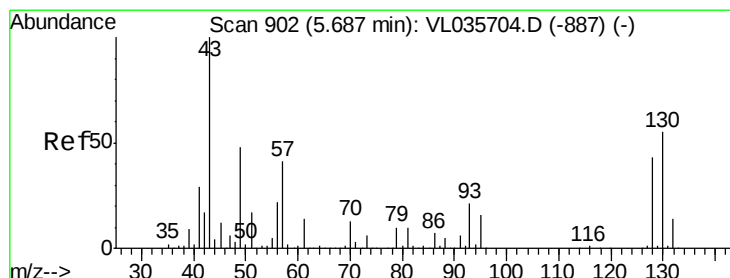
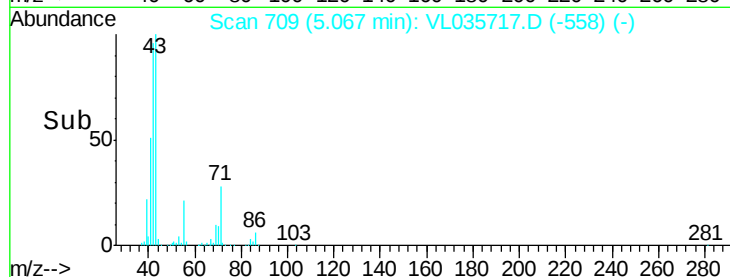
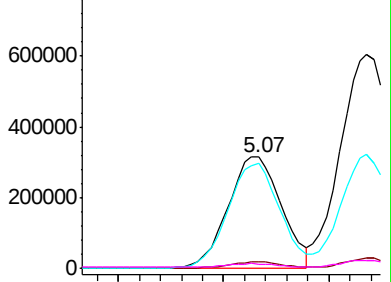


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.228 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Tgt Ion: 43 Resp: 269753

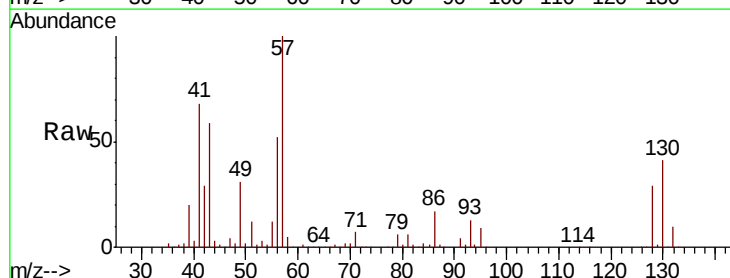
Ion Ratio Lower Upper

43 100

45 1.6 8.6 12.8#

61 1.6 10.4 15.6#

70 3.2 8.9 13.3#

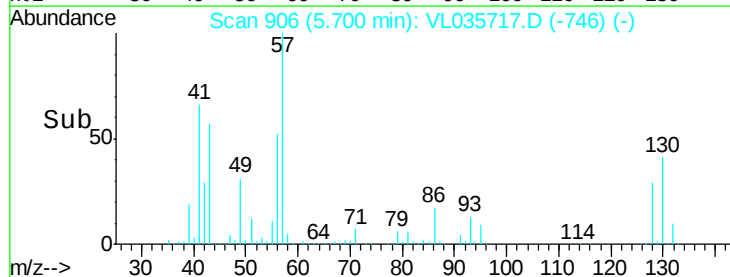
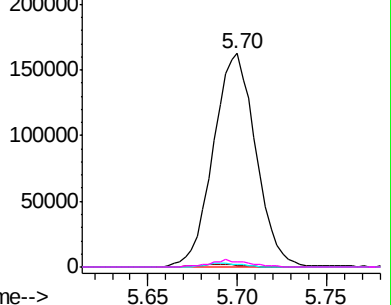


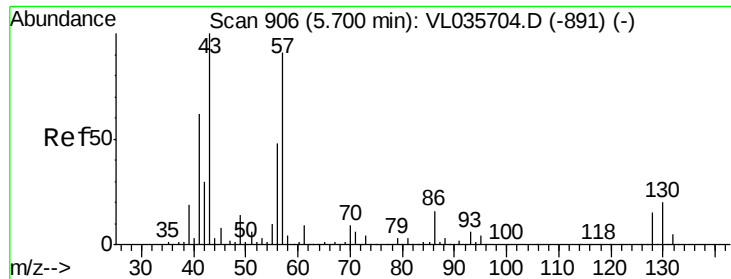
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 3.704 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

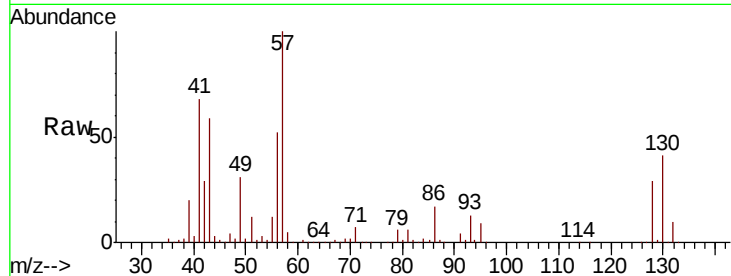
ClientSampleId :

B-2

Tot Ion: 57 Resp: 446019

Ion Ratio Lower Upper

57	100		
41	71.1	57.9	86.9
43	60.5	143.8	215.6#
56	53.8	43.0	64.6

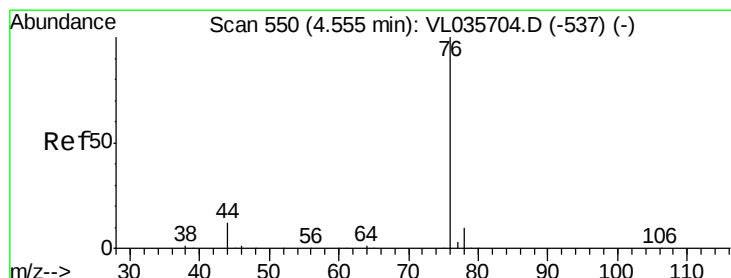
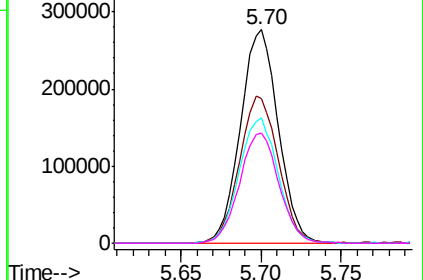
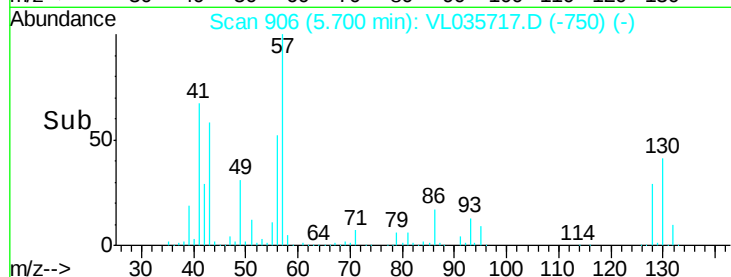


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.105 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

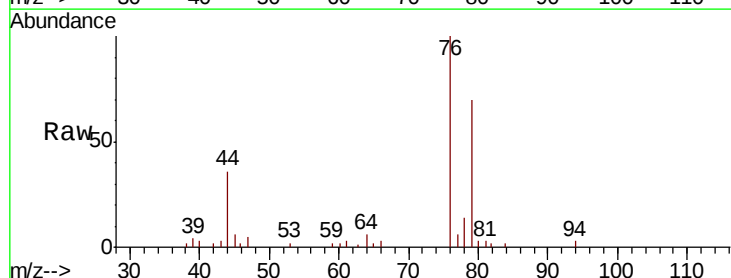
Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Tgt Ion: 76 Resp: 18806

Ion Ratio Lower Upper

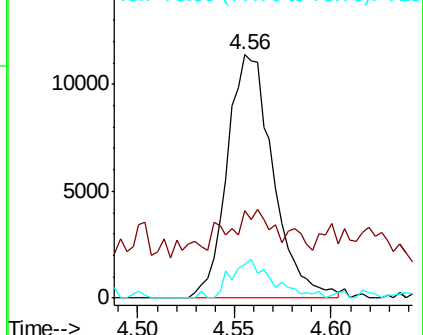
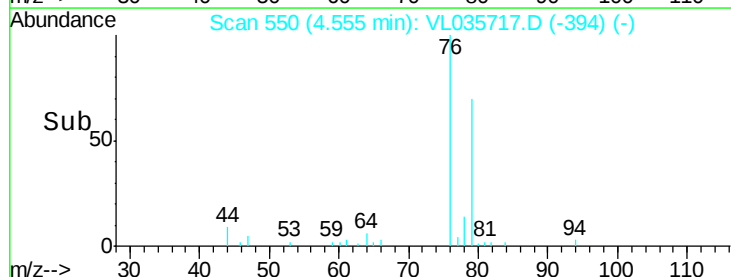
76	100		
44	49.5	9.7	14.5#
78	15.4	7.8	11.8#

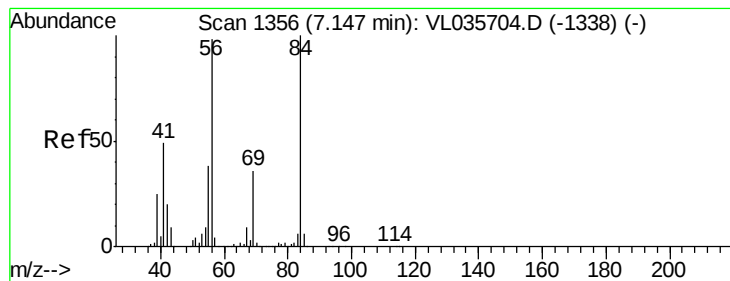


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#30

Cyclohexane

Concen: 0.836 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

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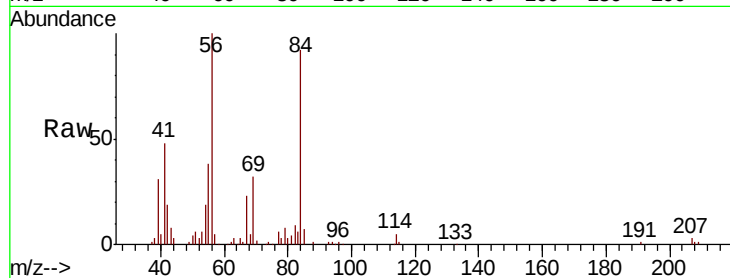
Tot Ion: 84 Resp: 99313

Ion Ratio Lower Upper

84 100

56 105.4 84.6 127.0

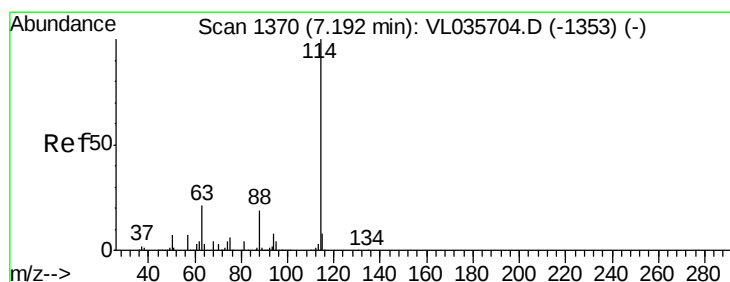
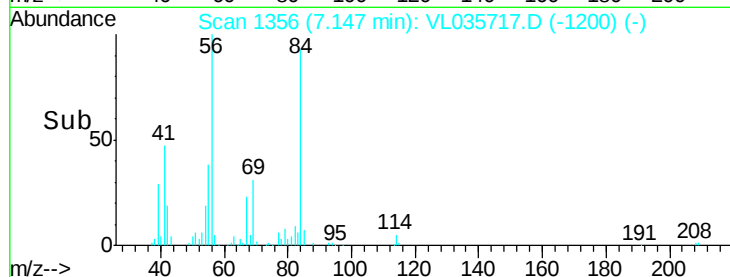
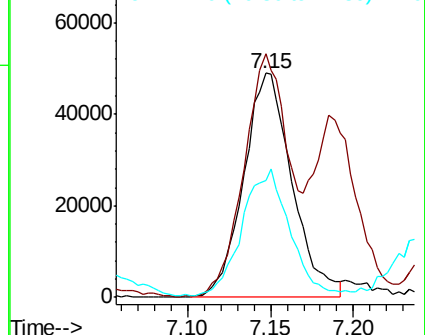
41 55.2 41.1 61.7



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

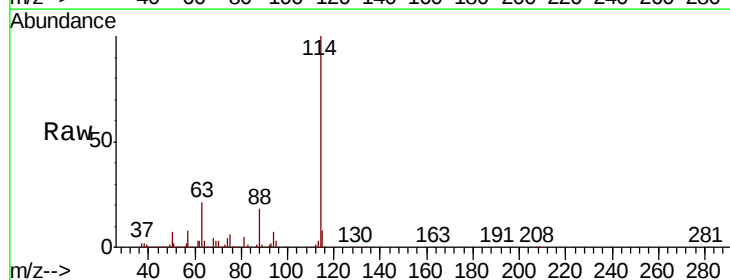
Tgt Ion: 114 Resp: 4336181

Ion Ratio Lower Upper

114 100

63 19.8 16.1 24.1

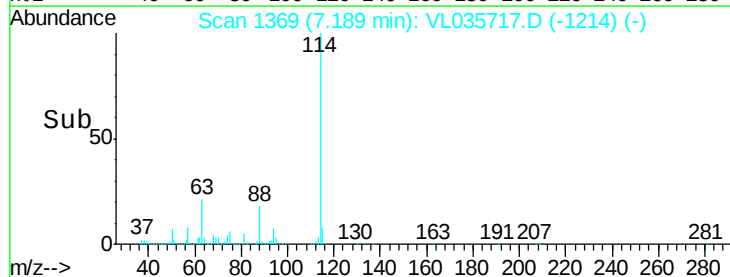
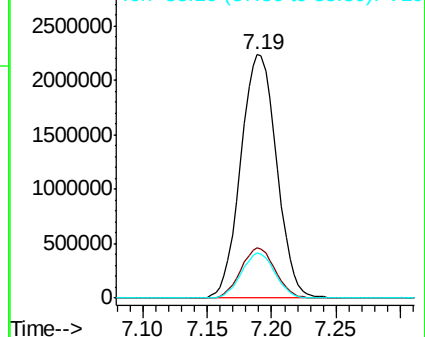
88 17.5 14.1 21.1

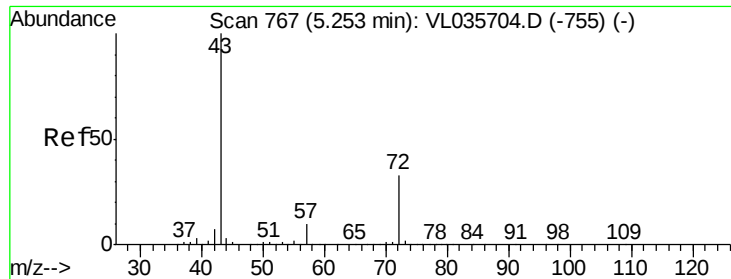


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

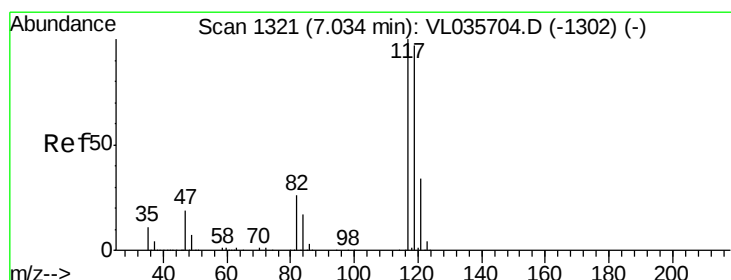
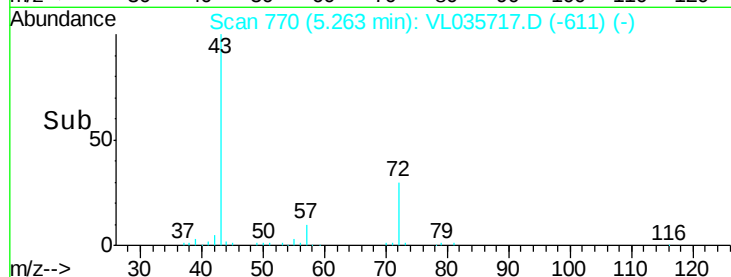
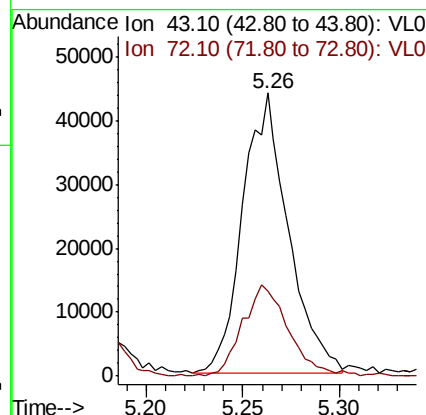
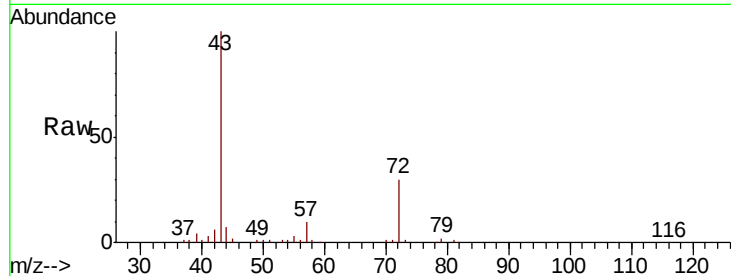




#34
2-Butanone
Concen: 0.501 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

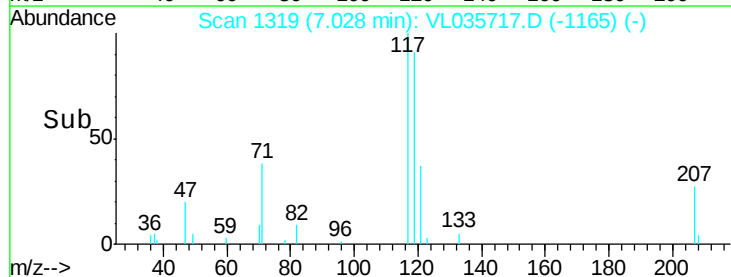
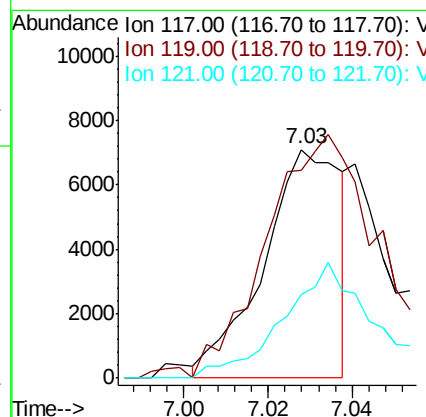
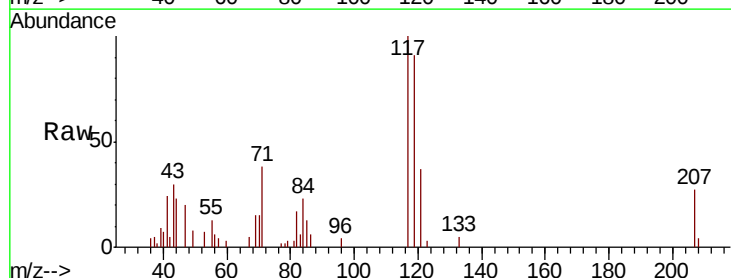
Instrument :
MSVOA_L
ClientSampleId :
B-2

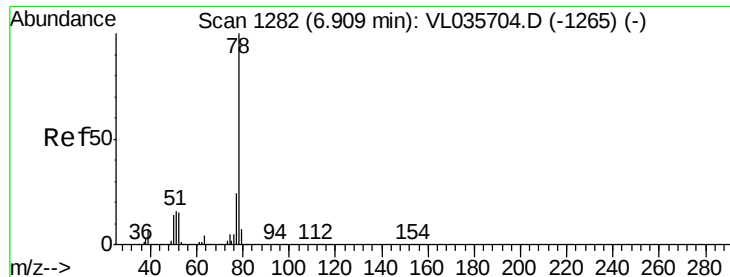
Tot Ion: 43 Resp: 71793
Ion Ratio Lower Upper
43 100
72 33.4 26.1 39.1



#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. -0.01 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

Tgt Ion: 117 Resp: 8994
Ion Ratio Lower Upper
117 100
119 95.8 77.7 116.5
121 38.5 26.9 40.3





#36

Benzene

Concen: 0.206 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-2

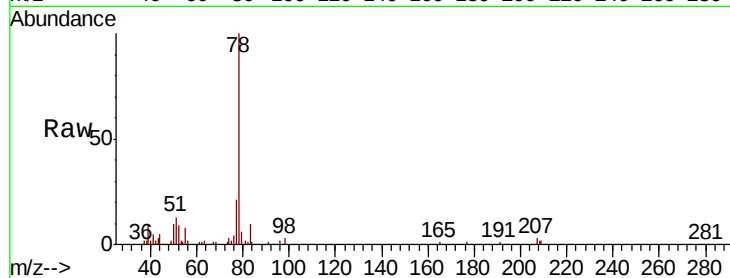
Tot Ion: 78 Resp: 58196

Ion Ratio Lower Upper

78 100

77 19.4 19.3 28.9

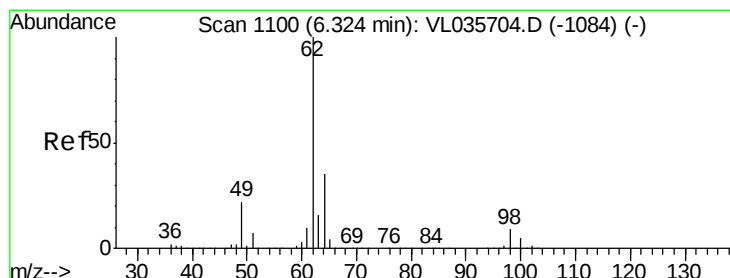
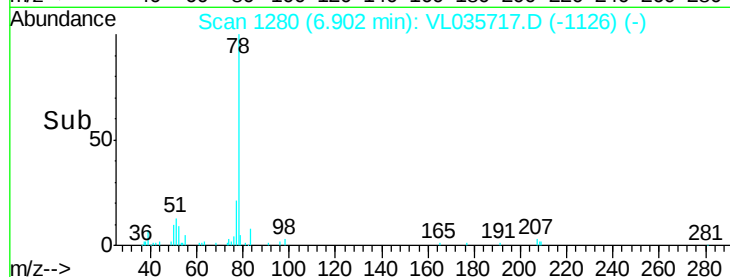
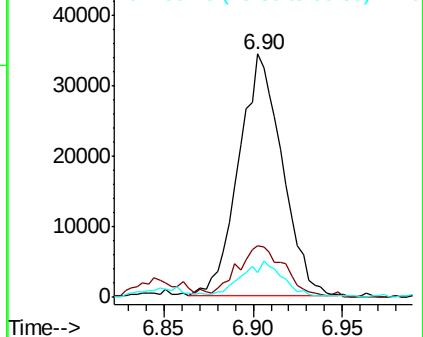
50 9.5 11.6 17.4#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.039 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VL035717.D

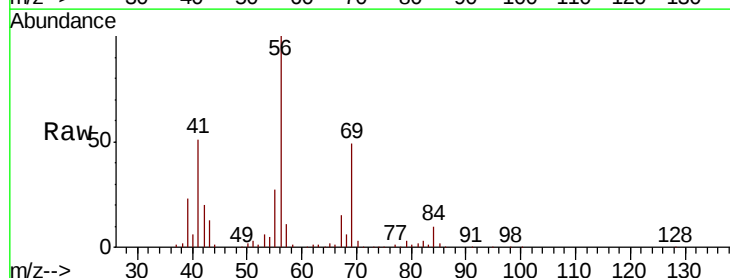
Acq: 23 Sep 2020 13:45

Tgt Ion: 62 Resp: 5756

Ion Ratio Lower Upper

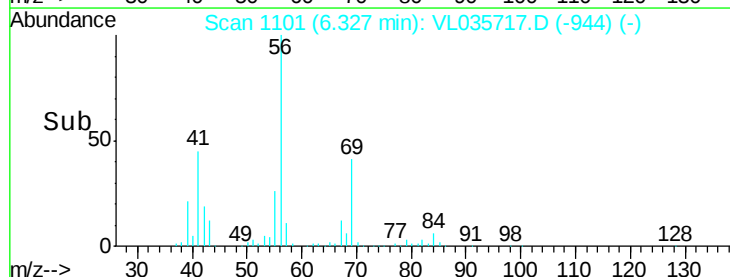
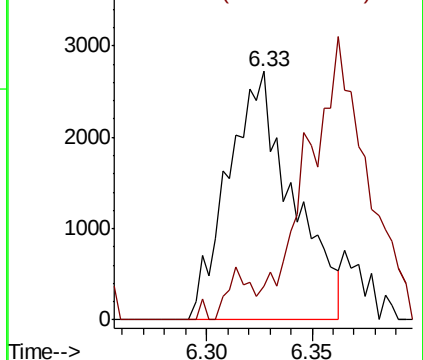
62 100

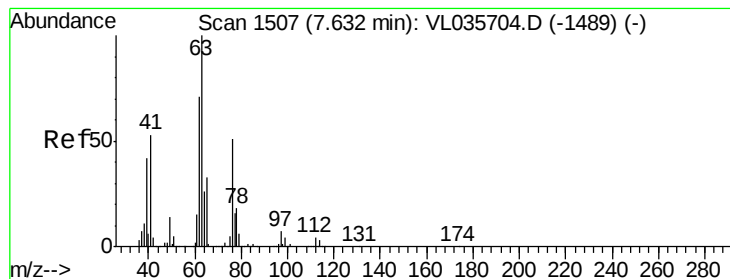
98 0.0 6.9 10.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 8.323 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-2

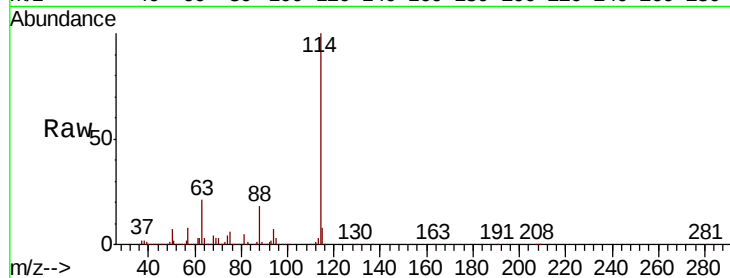
Tot Ion: 63 Resp: 852349

Ion Ratio Lower Upper

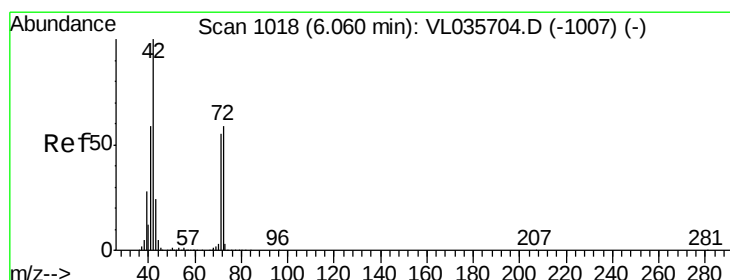
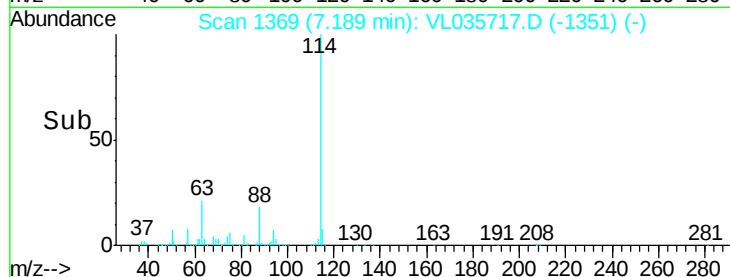
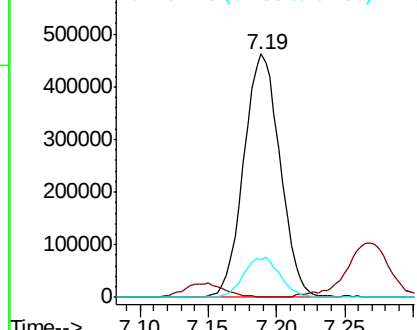
63 100

41 0.0 42.6 63.8#

62 15.3 56.5 84.7#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.045 ppbv

RT: 6.13 min Scan# 1039

Delta R.T. 0.07 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

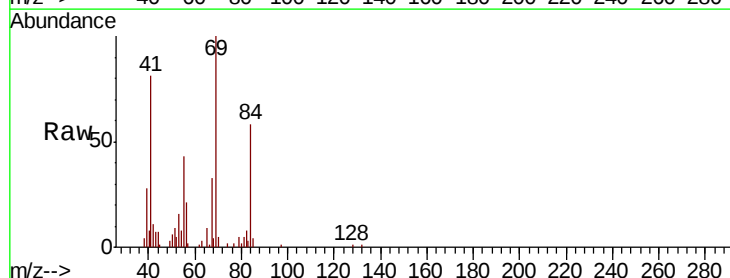
Tgt Ion: 42 Resp: 3267

Ion Ratio Lower Upper

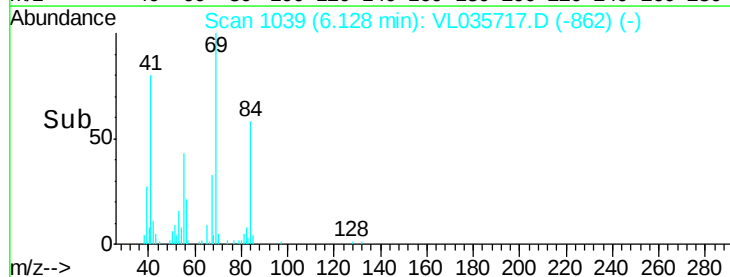
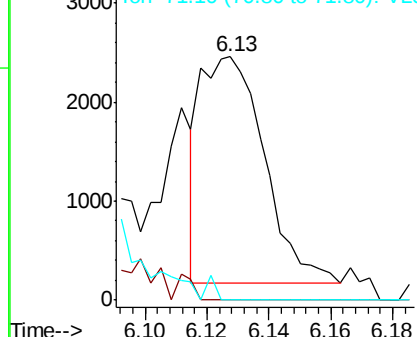
42 100

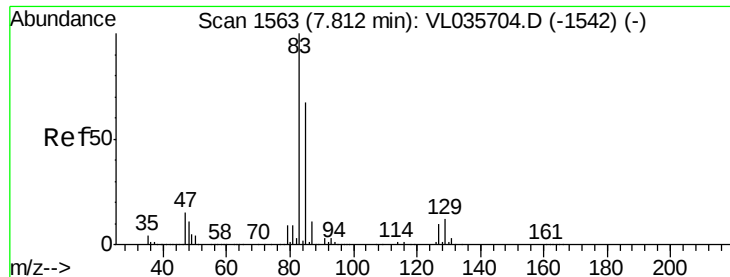
72 35.7 46.2 69.4#

71 30.7 44.2 66.4#



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





#42

Bromodichloromethane

Concen: 0.208 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-2

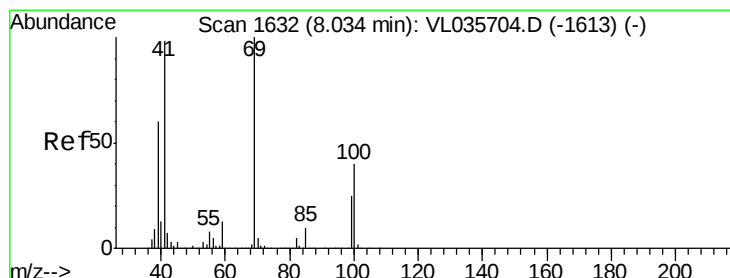
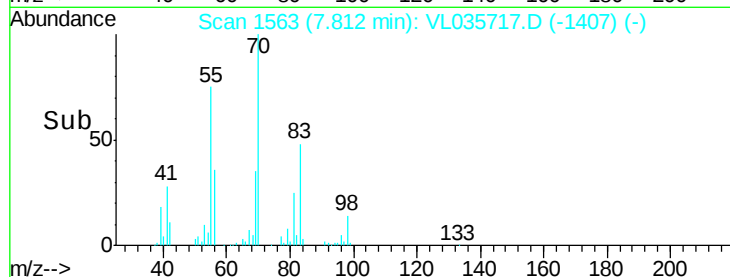
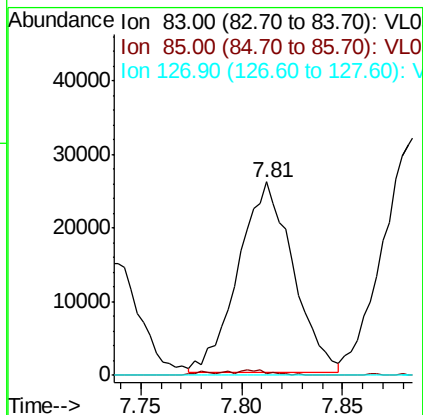
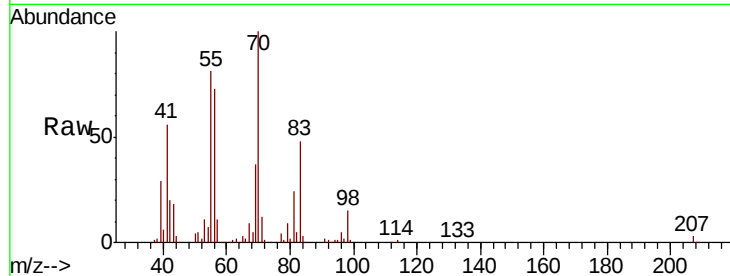
Tot Ion: 83 Resp: 49227

Ion Ratio Lower Upper

83 100

85 0.9 53.4 80.0#

127 0.0 7.8 11.6#



#43

Methyl Methacrylate

Concen: 0.079 ppbv

RT: 8.01 min Scan# 1623

Delta R.T. -0.03 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

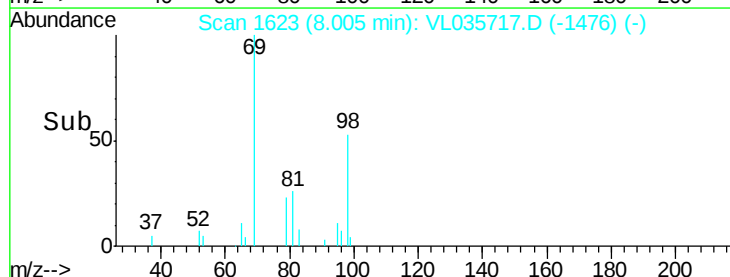
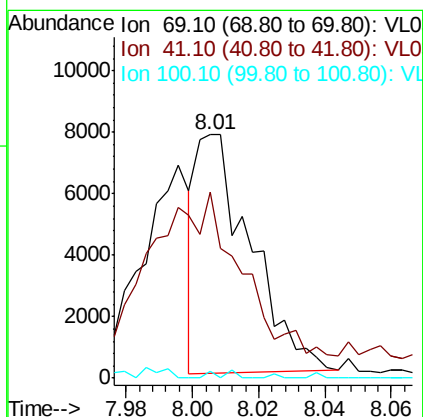
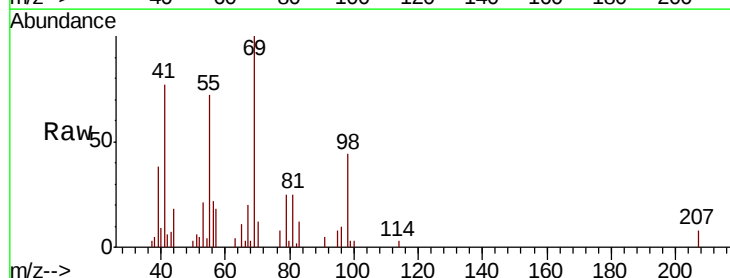
Tgt Ion: 69 Resp: 8830

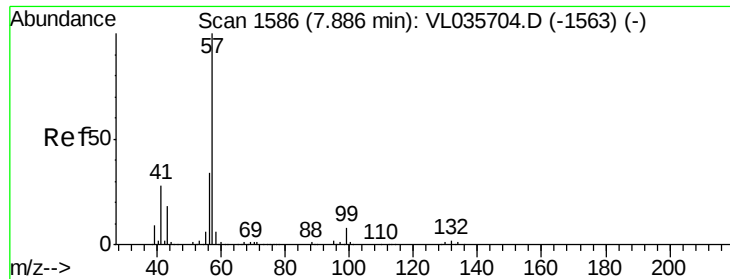
Ion Ratio Lower Upper

69 100

41 0.0 79.8 119.6#

100 0.0 30.6 46.0#





#44

2,2,4-Trimethylpentane

Concen: 10.885 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

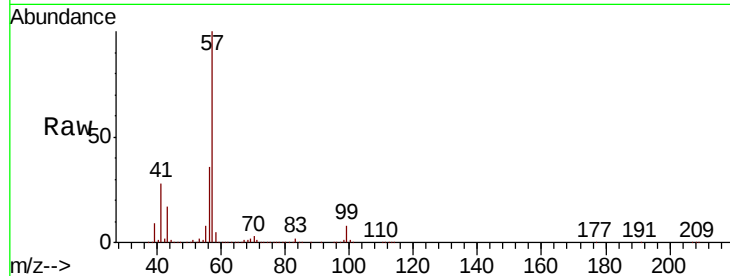
MSVOA_L

ClientSampleId :

B-2

Tot Ion: 57 Resp: 4413208

Ion	Ratio	Lower	Upper
57	100		
41	27.9	21.2	31.8
56	35.3	25.8	38.8

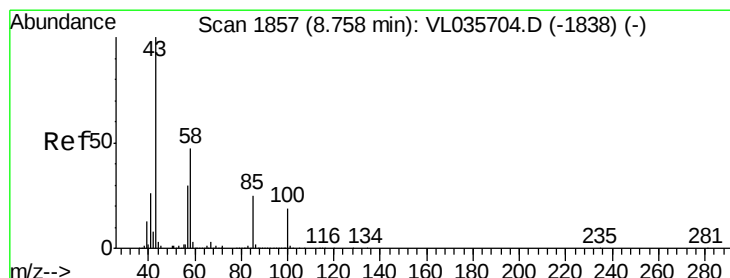
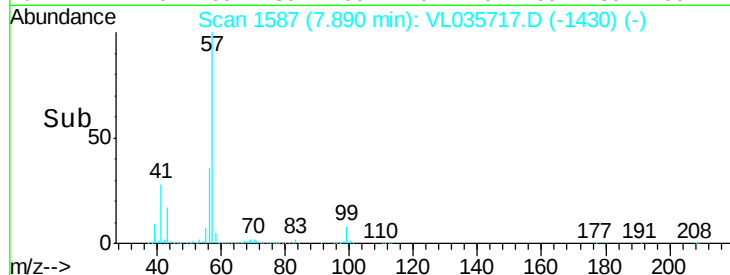
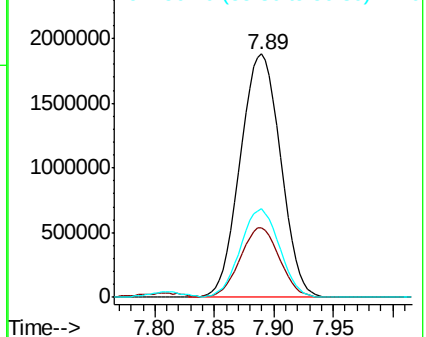


Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.137 ppbv

RT: 8.78 min Scan# 1865

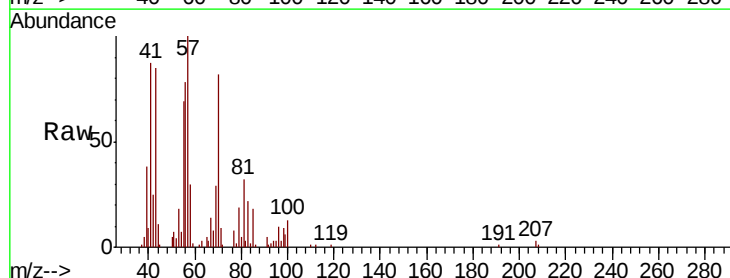
Delta R.T. 0.03 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Tgt Ion: 43 Resp: 28787

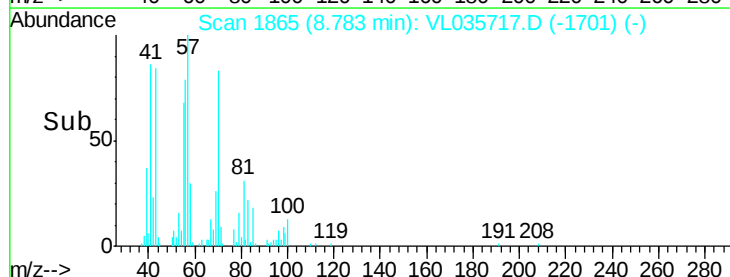
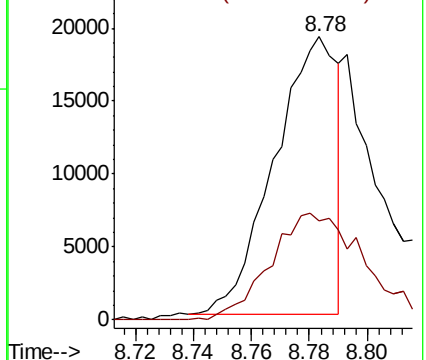
Ion	Ratio	Lower	Upper
43	100		
58	60.5	36.6	54.8

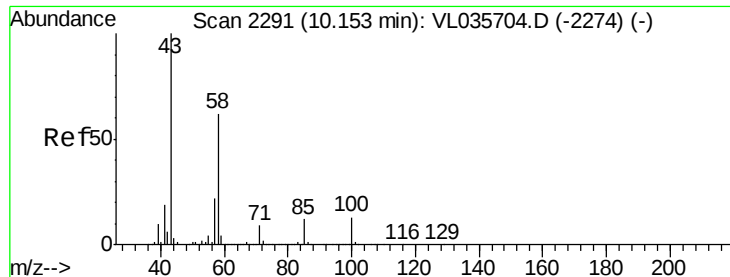


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

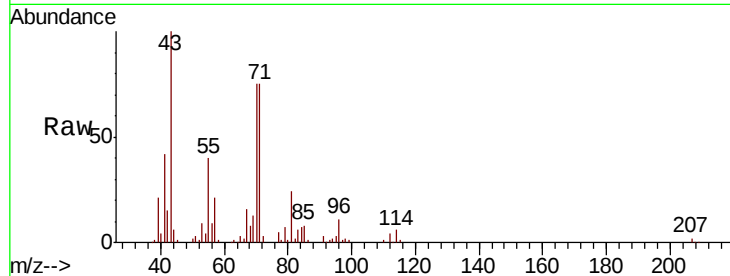




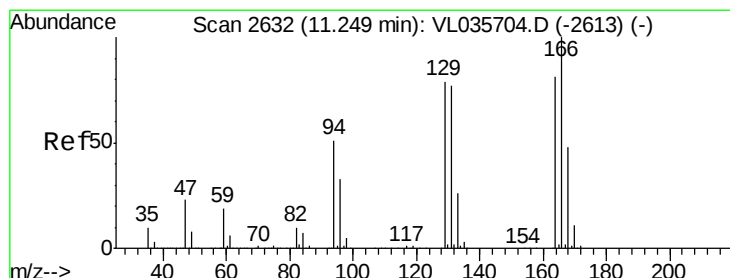
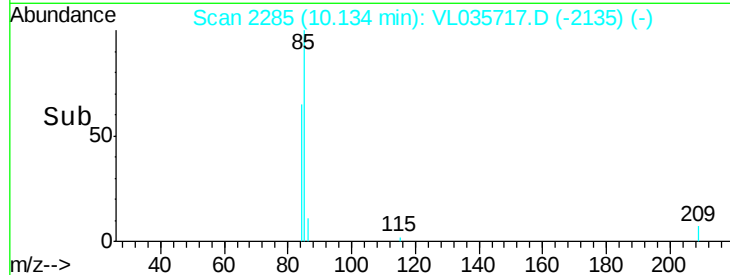
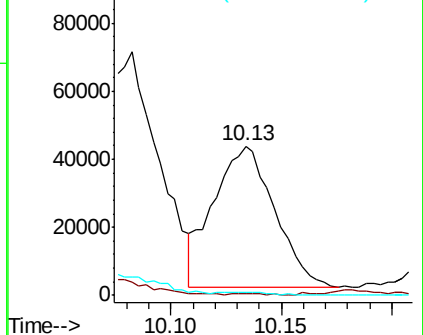
#51
2-Hexanone
Concen: 0.471 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. -0.02 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

Instrument :
MSVOA_L
ClientSampleId :
B-2

Tot Ion: 43 Resp: 79516
Ion Ratio Lower Upper
43 100
58 3.0 48.7 73.1#
98 0.0 0.7 1.1#



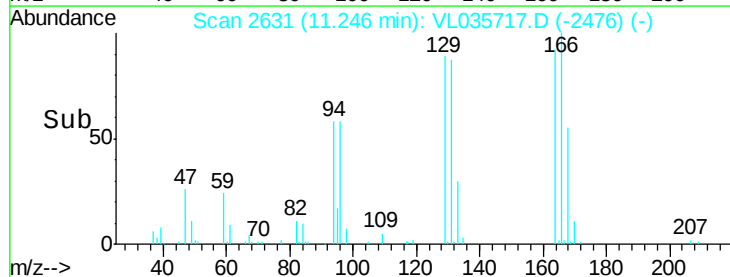
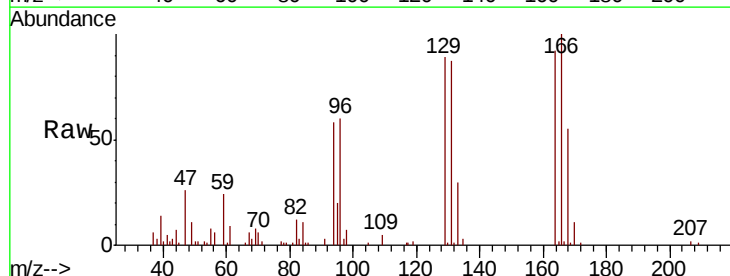
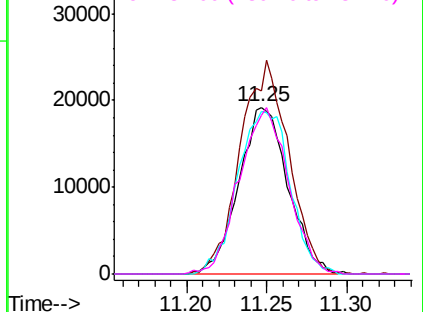
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

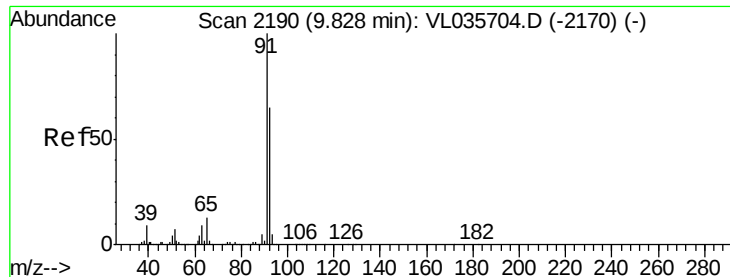


#52
Tetrachloroethene
Concen: 0.298 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.00 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

Tgt Ion: 164 Resp: 40430
Ion Ratio Lower Upper
164 100
166 109.3 98.7 148.1
129 97.2 78.4 117.6
131 94.1 76.2 114.2

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: 1.026 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

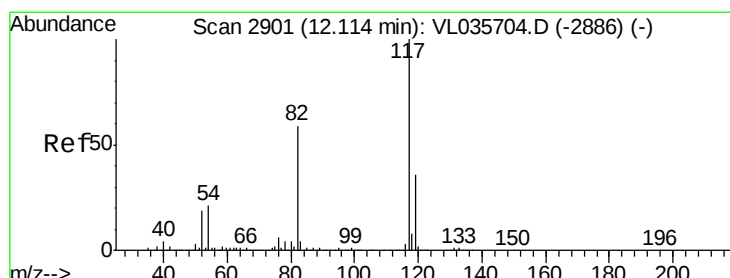
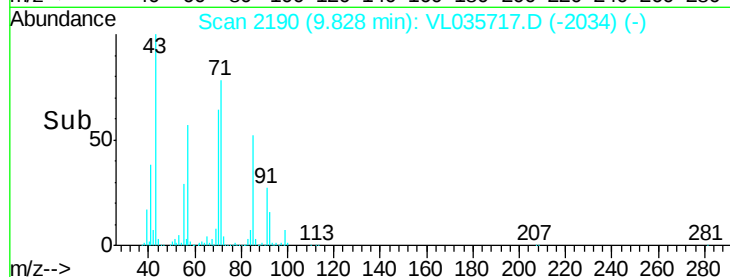
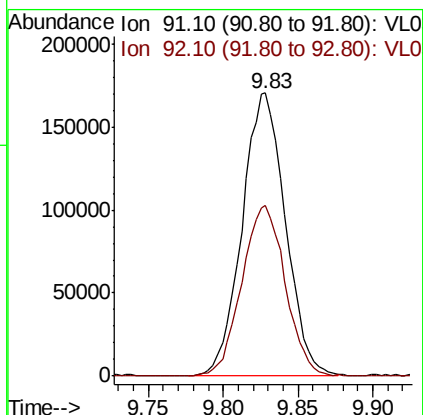
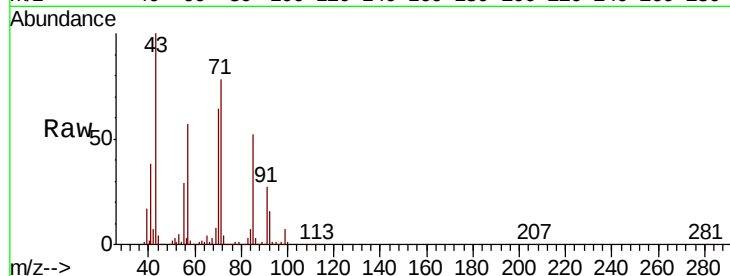
B-2

Tot Ion: 91 Resp: 341811

Ion Ratio Lower Upper

91 100

92 60.7 50.0 75.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

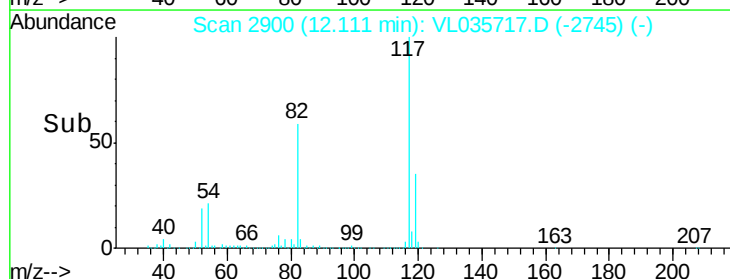
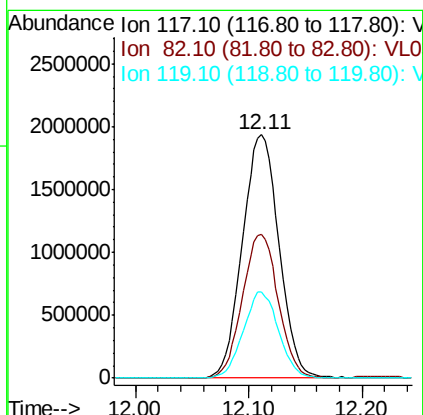
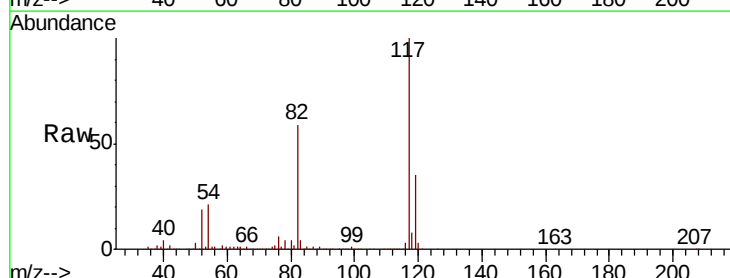
Tgt Ion: 117 Resp: 4351294

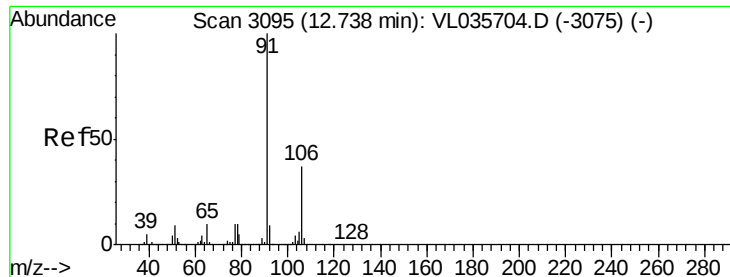
Ion Ratio Lower Upper

117 100

82 58.1 46.1 69.1

119 34.3 28.0 42.0





#58

Ethyl Benzene

Concen: 0.443 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

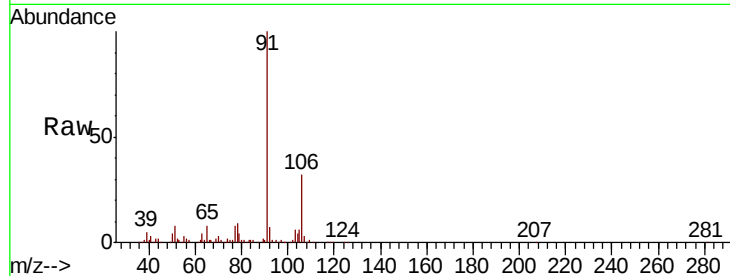
B-2

Tot Ion: 91 Resp: 193687

Ion Ratio Lower Upper

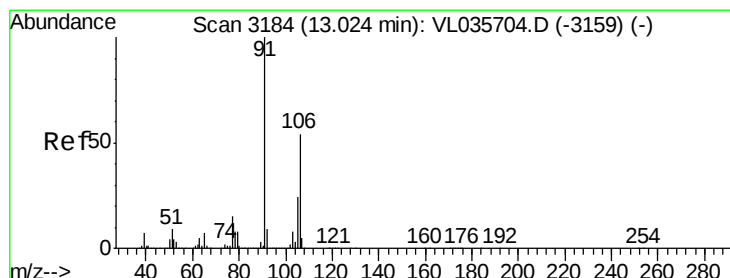
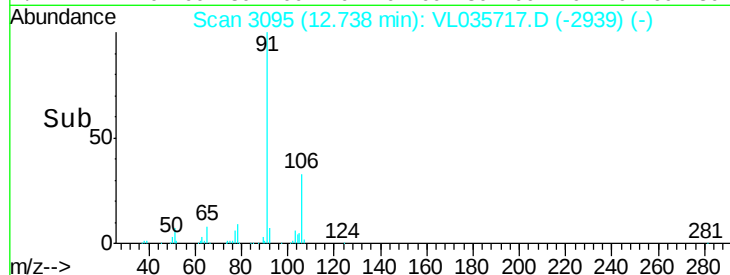
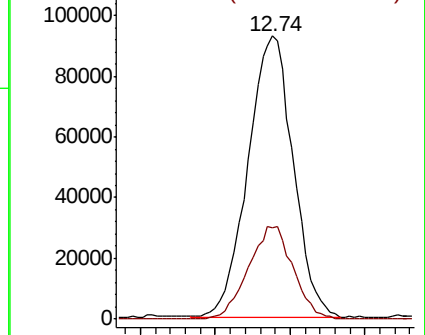
91 100

106 32.6 29.7 44.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.116 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. -0.00 min

Lab File: VL035717.D

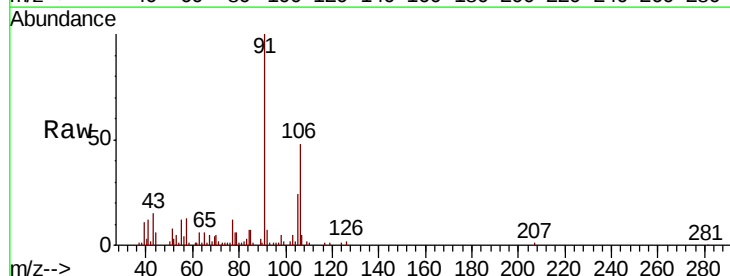
Acq: 23 Sep 2020 13:45

Tgt Ion: 91 Resp: 44337

Ion Ratio Lower Upper

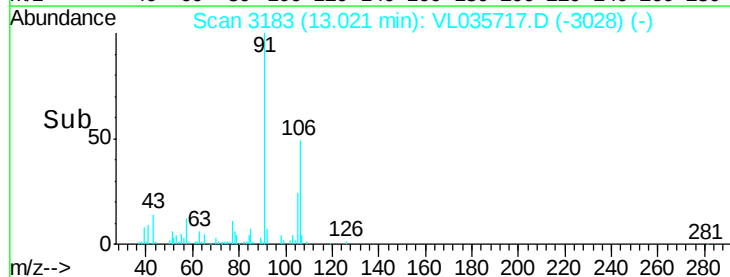
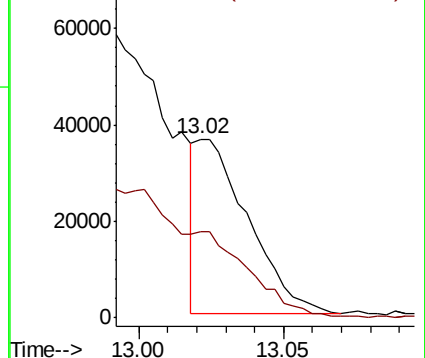
91 100

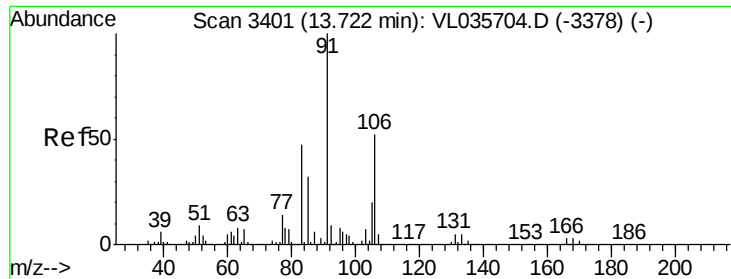
106 0.0 41.4 62.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

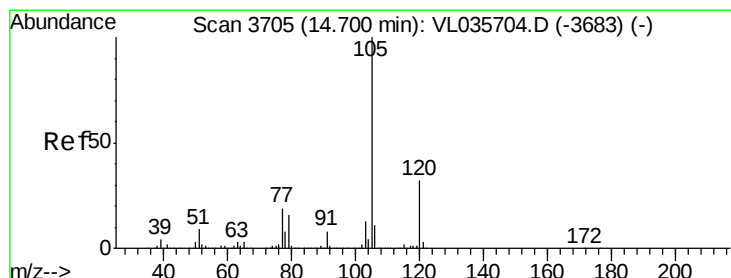
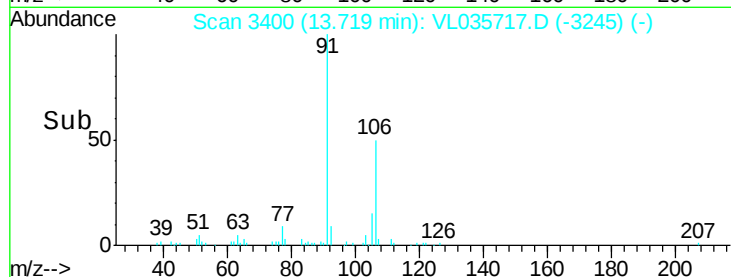
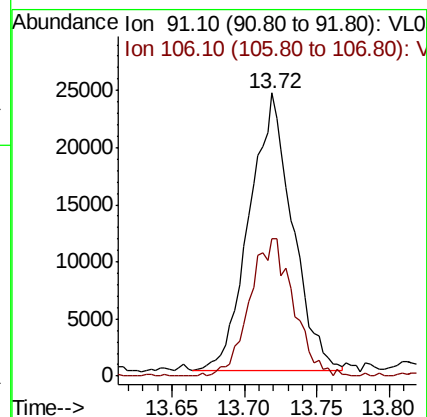
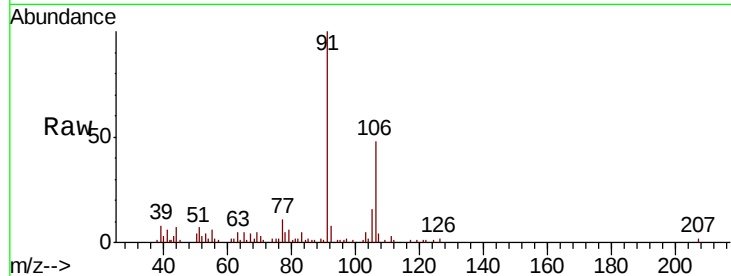




#60
o-Xylene
Concen: 0.130 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

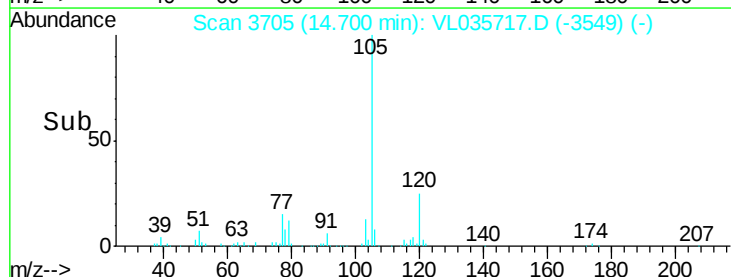
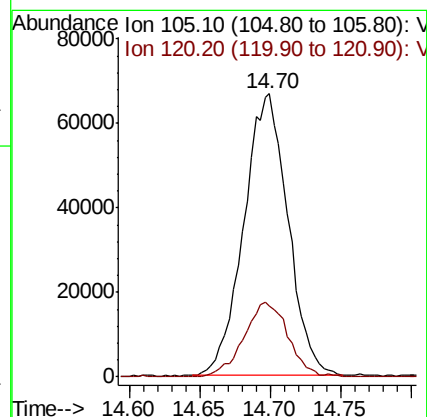
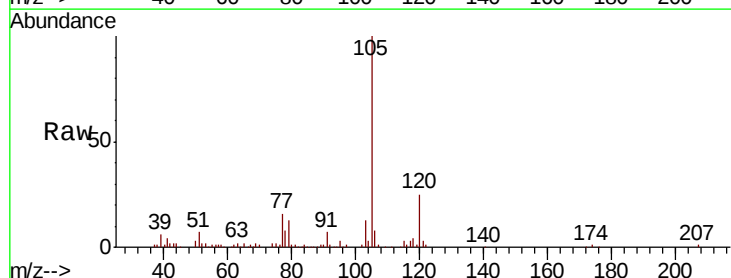
Instrument :
MSVOA_L
ClientSampleId :
B-2

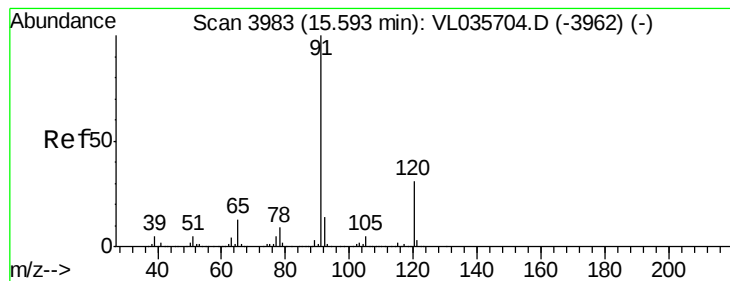
Tot Ion: 91 Resp: 50278
Ion Ratio Lower Upper
91 100
106 50.2 25.0 75.0



#62
Isopropylbenzene
Concen: 0.244 ppbv
RT: 14.70 min Scan# 3705
Delta R.T. 0.00 min
Lab File: VL035717.D
Acq: 23 Sep 2020 13:45

Tgt Ion:105 Resp: 146256
Ion Ratio Lower Upper
105 100
120 26.5 24.1 36.1





#64

n-propylbenzene

Concen: 0.684 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

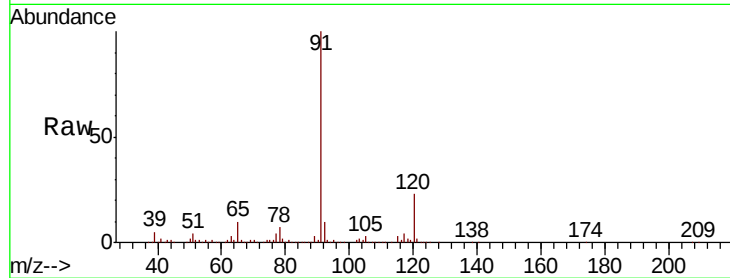
B-2

Tot Ion:120 Resp: 119767

Ion Ratio Lower Upper

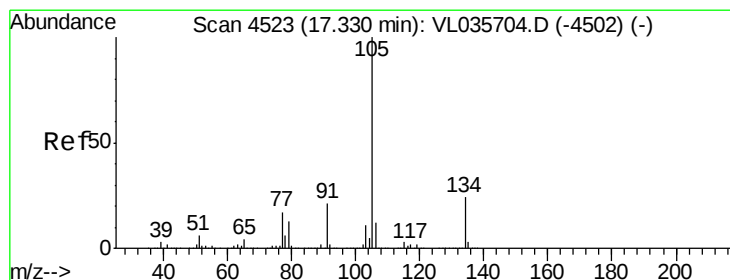
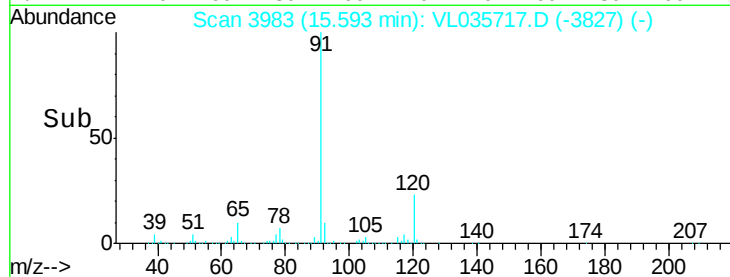
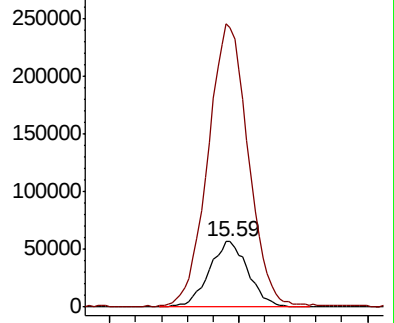
120 100

91 445.8 300.4 450.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#67

sec-Butylbenzene

Concen: 0.076 ppbv

RT: 17.33 min Scan# 4522

Delta R.T. -0.00 min

Lab File: VL035717.D

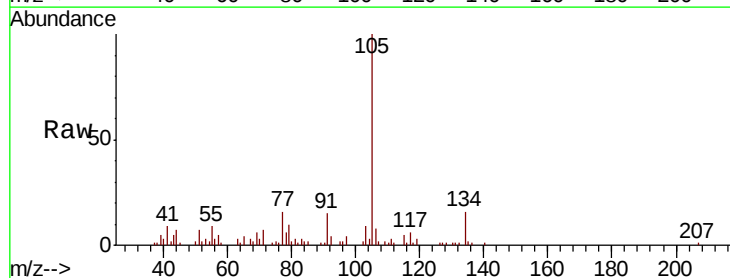
Acq: 23 Sep 2020 13:45

Tgt Ion:105 Resp: 57275

Ion Ratio Lower Upper

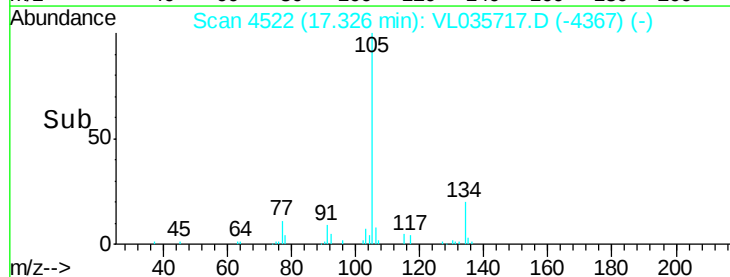
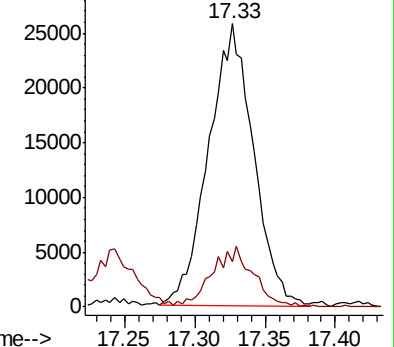
105 100

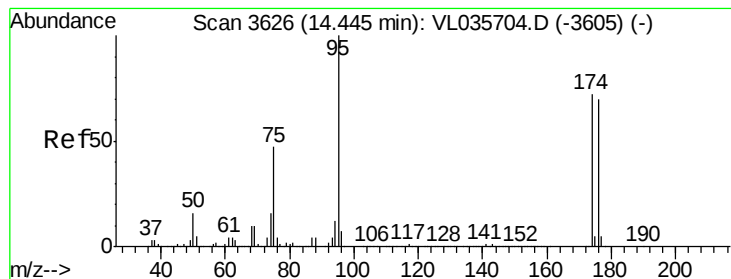
134 19.8 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.098 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-2

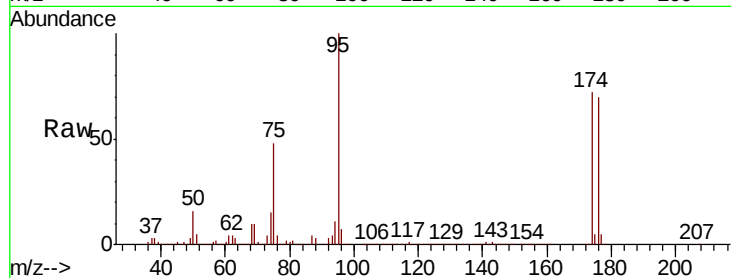
Tot Ion: 95 Resp: 3292448

Ion Ratio Lower Upper

95 100

174 74.5 59.6 89.4

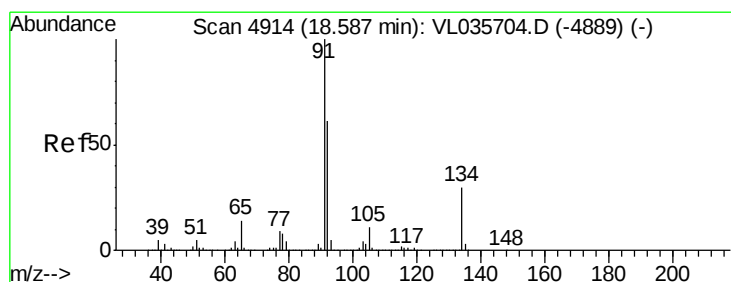
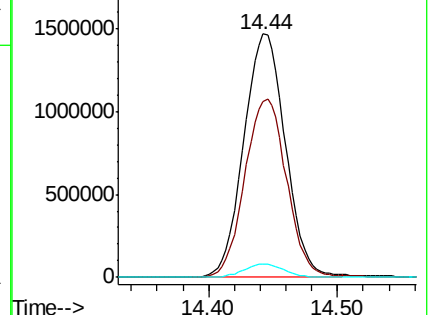
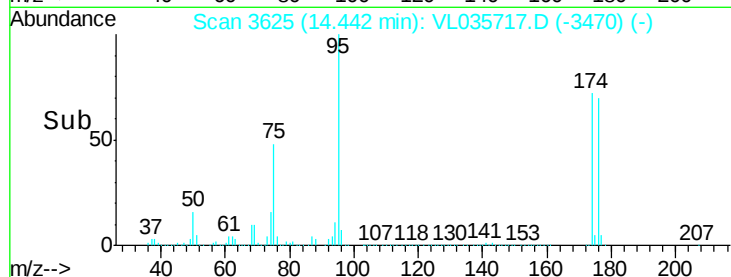
175 5.4 4.2 6.4



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): VL0

Ion 175.00 (174.70 to 175.70): VL0



#70

n-Butylbenzene

Concen: 0.100 ppbv

RT: 18.58 min Scan# 4912

Delta R.T. -0.01 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

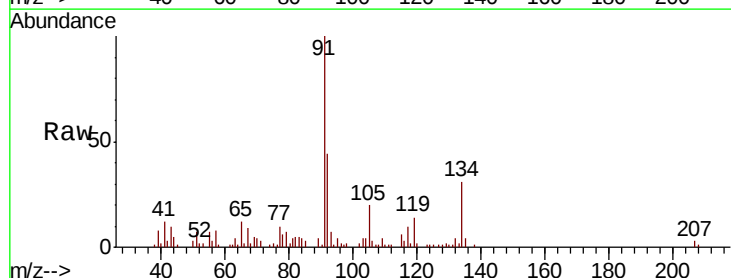
Tgt Ion: 91 Resp: 62892

Ion Ratio Lower Upper

91 100

92 44.2 47.0 70.4#

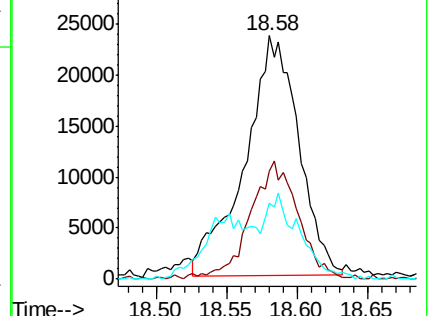
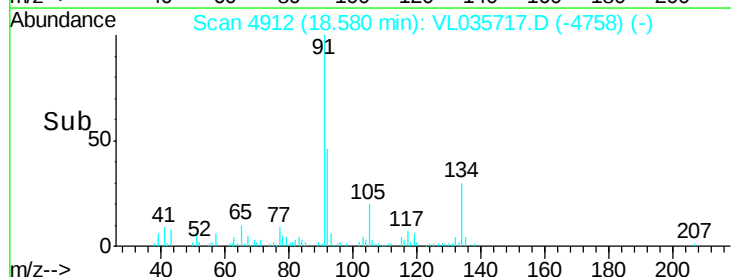
134 46.6 21.9 32.9#

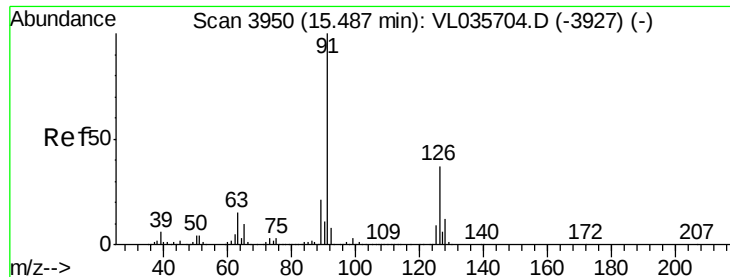


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): VL0

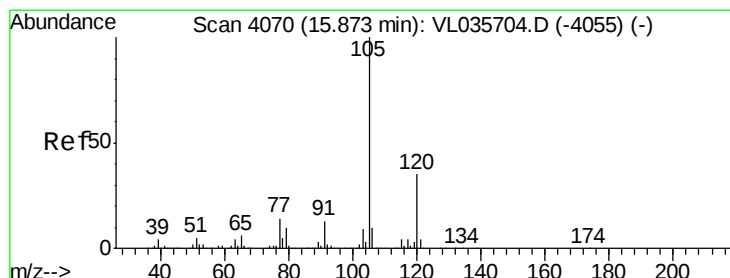
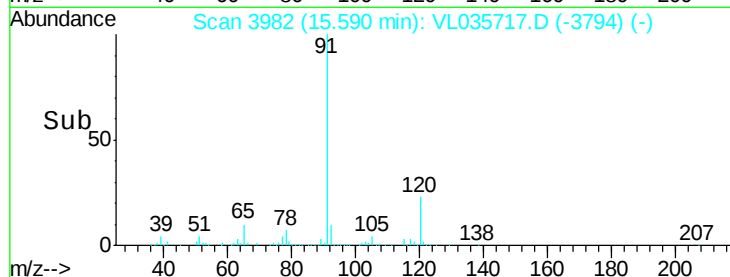
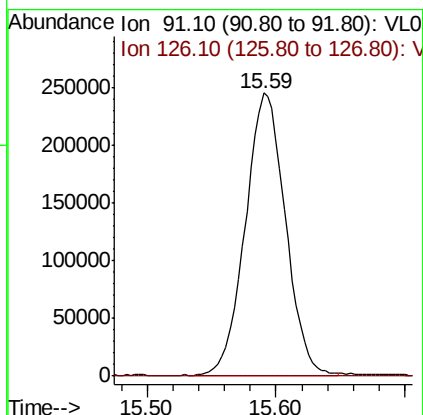
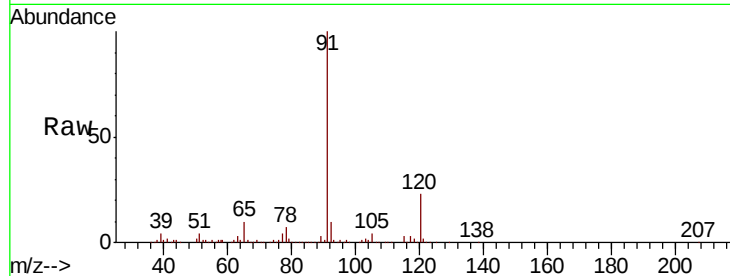




#71
 2-Chlorotoluene
 Concen: 1.213 ppbv
 RT: 15.59 min Scan# 3982
 Delta R.T. 0.10 min
 Lab File: VL035717.D
 Acq: 23 Sep 2020 13:45

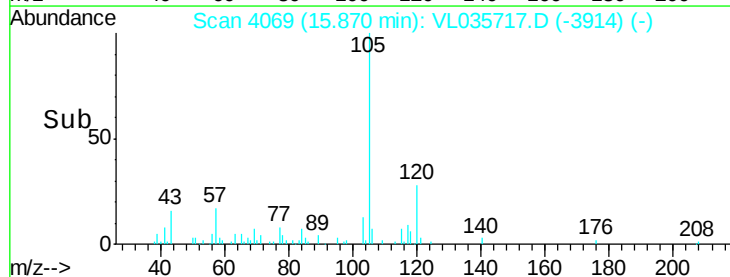
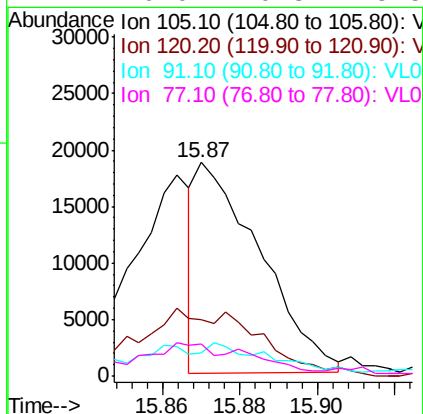
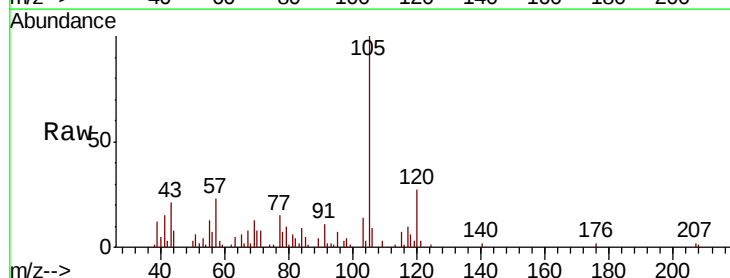
Instrument :
 MSVOA_L
 ClientSampled :
 B-2

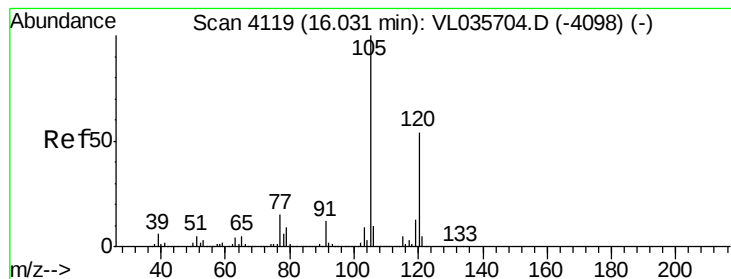
Tot Ion: 91 Resp: 529529
 Ion Ratio Lower Upper
 91 100
 126 0.1 14.4 57.4#



#72
 4-Ethyltoluene
 Concen: 0.047 ppbv
 RT: 15.87 min Scan# 4069
 Delta R.T. -0.00 min
 Lab File: VL035717.D
 Acq: 23 Sep 2020 13:45

Tgt Ion:105 Resp: 21386
 Ion Ratio Lower Upper
 105 100
 120 0.0 26.5 39.7#
 91 0.0 10.2 15.2#
 77 0.0 10.3 15.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.048 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampleId :

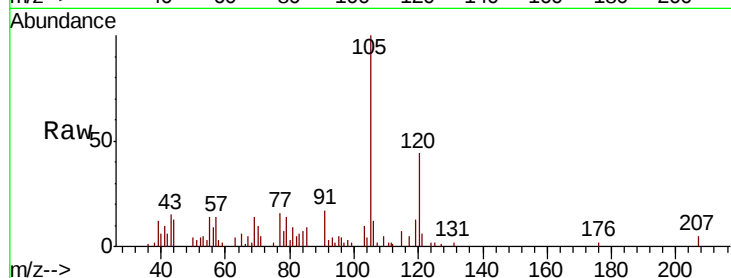
B-2

Tot Ion:105 Resp: 20859

Ion Ratio Lower Upper

105 100

120 43.3 43.0 64.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

12000

10000

8000

6000

4000

2000

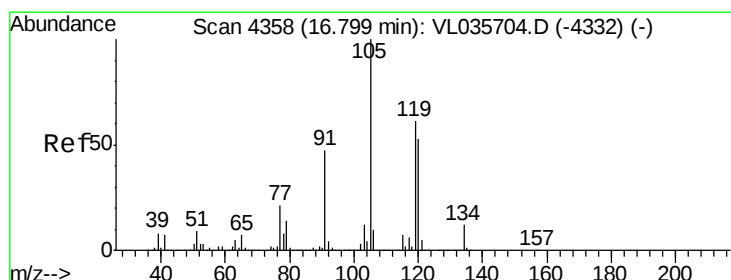
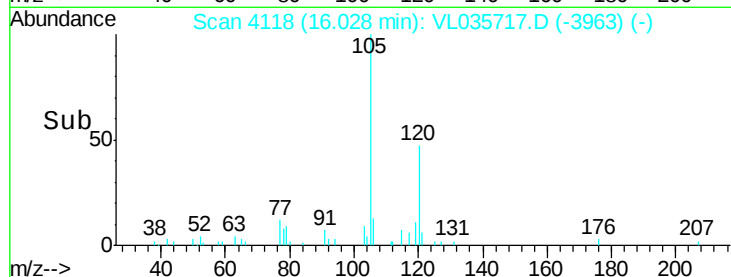
0

15.95

16.00

16.05

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.219 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. -0.01 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Tgt Ion:105 Resp: 106609

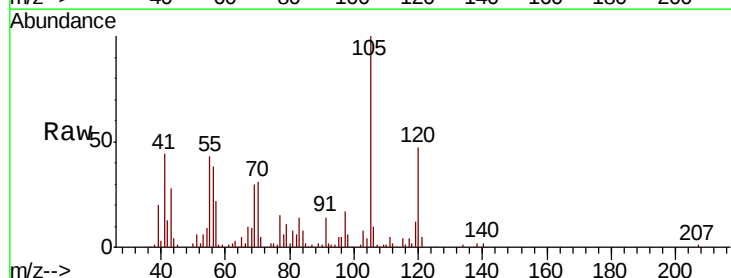
Ion Ratio Lower Upper

105 100

120 46.7 42.5 63.7

91 12.8 37.7 56.5#

77 13.9 16.7 25.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

60000

40000

20000

0

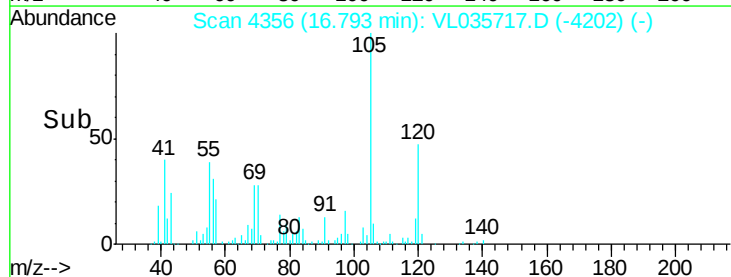
16.70

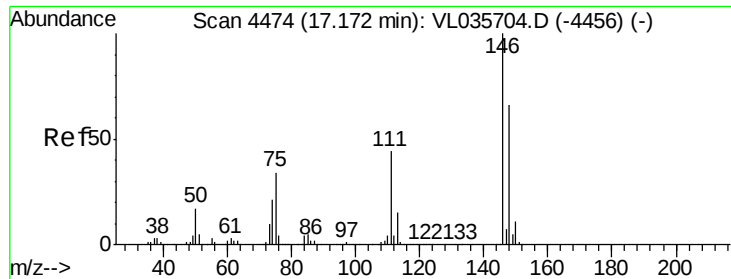
16.75

16.80

16.85

Time-->





#76

1,4-Dichlorobenzene

Concen: 0.031 ppbv

RT: 17.17 min Scan# 4473

Delta R.T. -0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

Instrument :

MSVOA_L

ClientSampled :

B-2

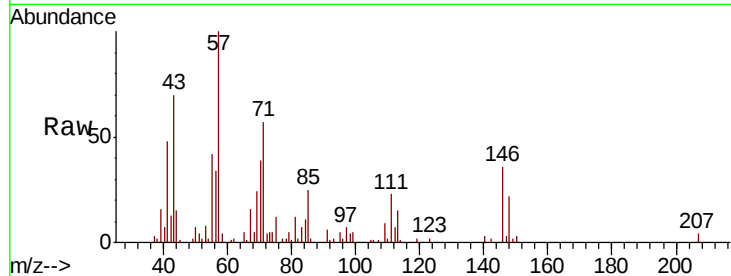
Tot Ion:146 Resp: 9722

Ion Ratio Lower Upper

146 100

111 79.3 21.4 64.3#

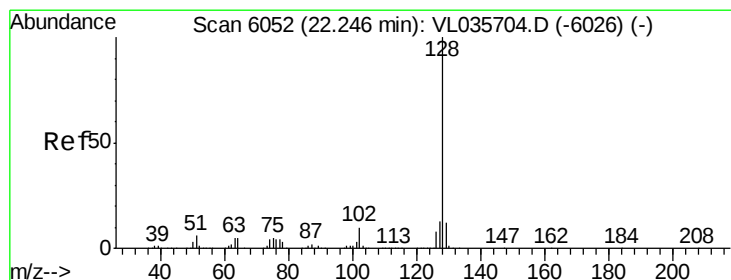
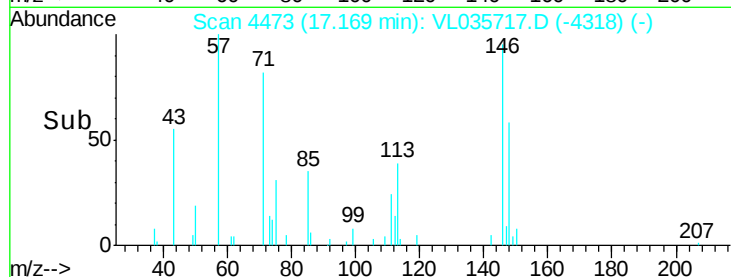
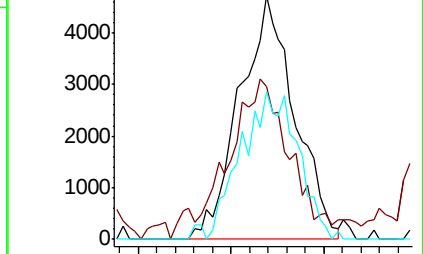
148 63.5 32.6 98.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 1.259 ppbv

RT: 22.25 min Scan# 6052

Delta R.T. 0.00 min

Lab File: VL035717.D

Acq: 23 Sep 2020 13:45

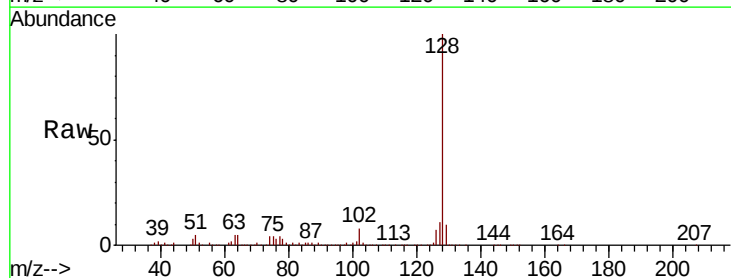
Tgt Ion:128 Resp: 584841

Ion Ratio Lower Upper

128 100

127 11.4 10.6 15.8

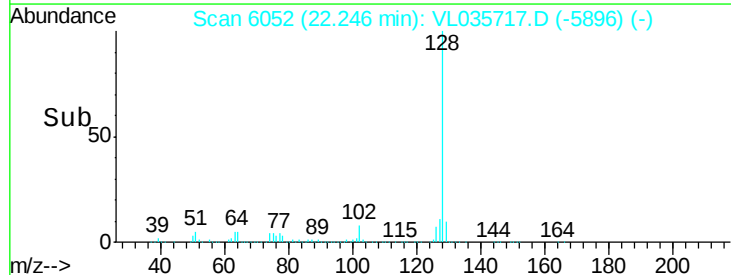
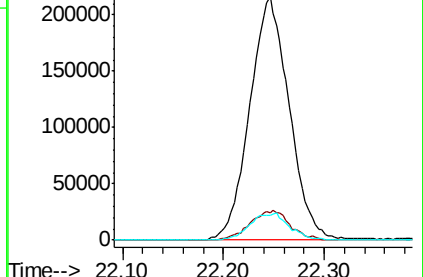
129 10.2 9.4 14.0

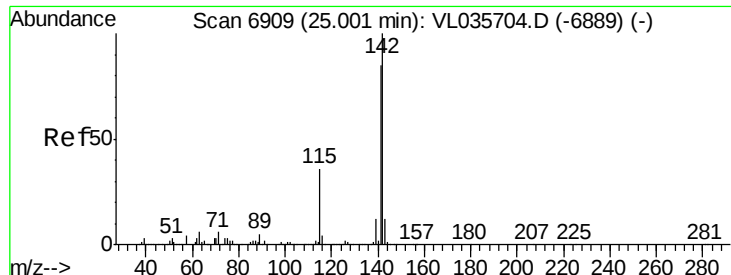


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80
 Naphthalene, 2-methyl-
 Concen: 0.041 ppbv
 RT: 25.00 min Scan# 6910
 Delta R.T. 0.00 min
 Lab File: VL035717.D
 Acq: 23 Sep 2020 13:45

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

Tot Ion	Ratio	Lower	Upper
142	100		
141	79.7	68.2	102.4
115	53.4	27.8	41.6

