

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035759.D
 Acq On : 12 Oct 2020 13:19
 Operator : SY/AP
 Sample : L4347-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1

Quant Time: Oct 13 00:03:04 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	5.66	49	1050404	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4269321	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	4301377	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3299375	10.24	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	47096	0.273	ppbv	92
3) Chlorodifluoromethane	2.95	51	1142341	10.109	ppbv #	58
4) Chloromethane	3.12	50	33075	0.545	ppbv	96
6) Bromomethane	3.46	94	1842	0.030	ppbv #	70
7) Chloroethane	3.54	64	2585	0.098	ppbv #	76
9) Propene	3.00	41	761227	18.553	ppbv	88
10) Heptane	8.12	43	620094	5.421	ppbv	98
11) Trichlorofluoromethane	3.94	101	69840	0.284	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.47	101	15285	0.083	ppbv	98
13) Ethanol	3.70	45	25052781	2475.997	ppbv #	38
15) Acetone	3.84	43	12112838	107.169	ppbv #	81
16) 1,3-Butadiene	3.29	39	1020310	24.675	ppbv #	12
17) tert-Butyl alcohol	4.14	59	7561	0.061	ppbv #	1
19) Isopropyl Alcohol	4.08	45	595353	9.683	ppbv #	89
20) Methylene Chloride	4.34	84	1758101	21.176	ppbv	95
21) Allyl Chloride	4.45	41	59838	1.092	ppbv #	13
23) Vinyl Acetate	5.06	43	395045	2.854	ppbv #	1
24) 1,1-Dichloroethane	5.04	63	5398	0.036	ppbv #	84
25) Ethyl Acetate	5.66	43	3083746	15.163	ppbv #	94
26) Hexane	5.68	57	1086163	9.746	ppbv #	56
27) Carbon Disulfide	4.54	76	299413	1.802	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	11355	0.064	ppbv #	1
29) Chloroform	5.75	83	314235	1.388	ppbv	93
30) Cyclohexane	7.12	84	167945	1.527	ppbv #	90
31) cis-1,2-Dichloroethene	5.66	61	468854	4.358	ppbv #	12
32) 1,1,1-Trichloroethane	6.51	97	140854	0.706	ppbv	96
34) 2-Butanone	5.24	43	2076025	14.702	ppbv	99
36) Benzene	6.89	78	957243	3.441	ppbv	98
37) 1,2-Dichloroethane	6.31	62	9580	0.066	ppbv #	76
38) Trichloroethene	7.83	130	6184	0.045	ppbv #	72
39) 1,2-Dichloropropane	7.17	63	848170	8.412	ppbv #	31
41) Tetrahydrofuran	6.05	42	5689	0.080	ppbv #	32
42) Bromodichloromethane	7.79	83	57070	0.244	ppbv #	69
43) Methyl Methacrylate	8.01	69	7650	0.069	ppbv #	10
44) 2,2,4-Trimethylpentane	7.87	57	541860	1.357	ppbv #	75
51) 2-Hexanone	10.16	43	859852	5.174	ppbv	98
52) Tetrachloroethene	11.23	164	109665	0.820	ppbv	99
53) Toluene	9.81	91	13396605	40.839	ppbv #	81
58) Ethyl Benzene	12.72	91	3118179	7.223	ppbv	95
59) m/p-Xylene	12.98	91	7236326	19.193	ppbv	98
60) o-Xylene	13.70	91	3544878	9.295	ppbv	99

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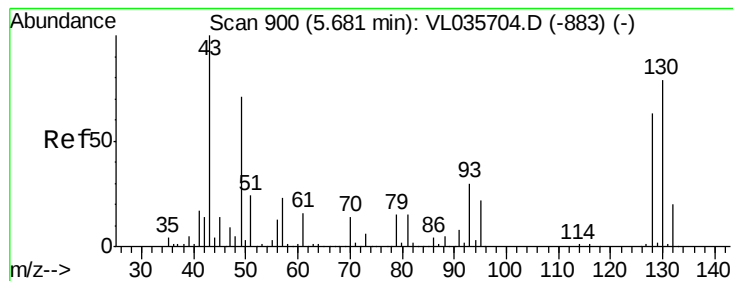
Instrument :
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 ClientSampleId :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

61) Styrene	13.54	104	944538	3.582	ppbv	98
62) Isopropylbenzene	14.68	105	154413	0.261	ppbv	95
64) n-propylbenzene	15.58	120	88862	0.513	ppbv #	62
65) tert-Butylbenzene	16.78	119	165462	0.308	ppbv #	75
67) sec-Butylbenzene	17.31	105	86209	0.116	ppbv	95
69) p-Isopropyltoluene	17.67	119	66822	0.111	ppbv #	45
70) n-Butylbenzene	18.59	91	198257	0.319	ppbv #	59
71) 2-Chlorotoluene	15.58	91	400727	0.929	ppbv #	40
72) 4-Ethyltoluene	15.85	105	423905	0.938	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	381207	0.893	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	1393909	2.896	ppbv #	71
76) 1,4-Dichlorobenzene	17.16	146	15359	0.049	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.39	225	11749	0.069	ppbv #	18
79) Naphthalene	22.24	128	126293	0.275	ppbv	96
80) Naphthalene,2-methyl-	24.99	142	24983	0.231	ppbv #	94

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

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ClientSampleId :

1

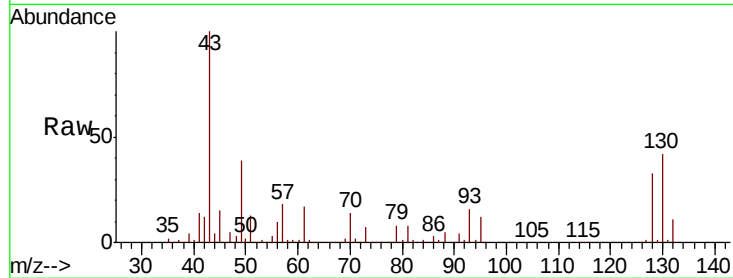
Tot Ion: 49 Resp: 1050404

Ion Ratio Lower Upper

49 100

128 83.3 43.1 129.4

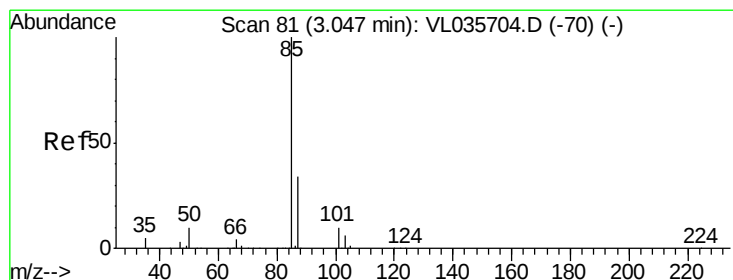
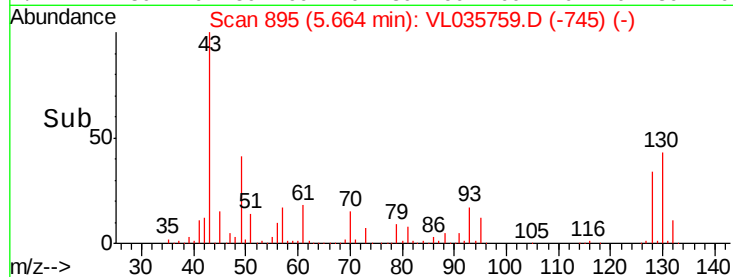
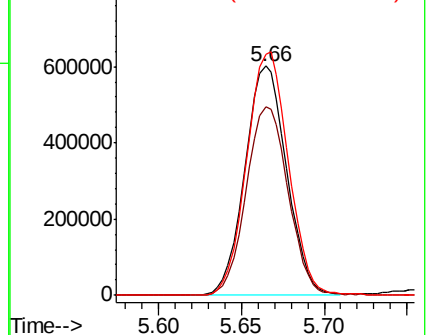
130 106.9 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.273 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL035759.D

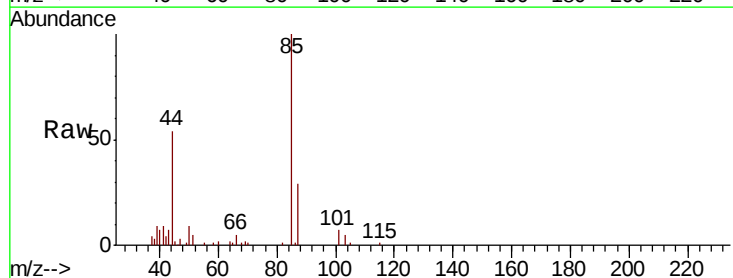
Acq: 12 Oct 2020 13:19

Tgt Ion: 85 Resp: 47096

Ion Ratio Lower Upper

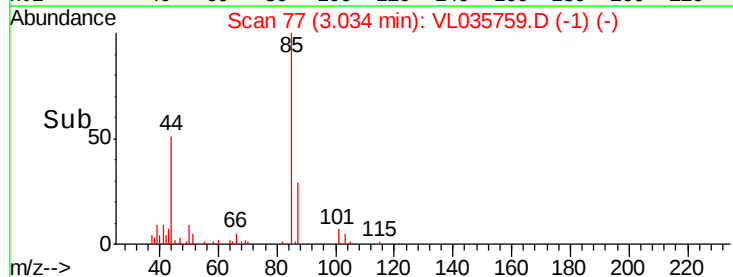
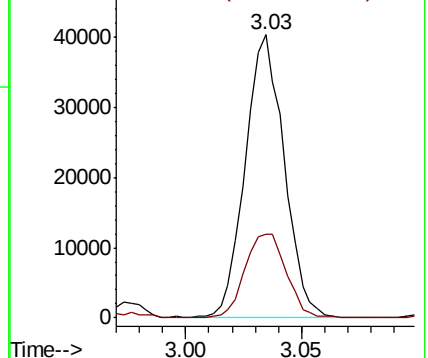
85 100

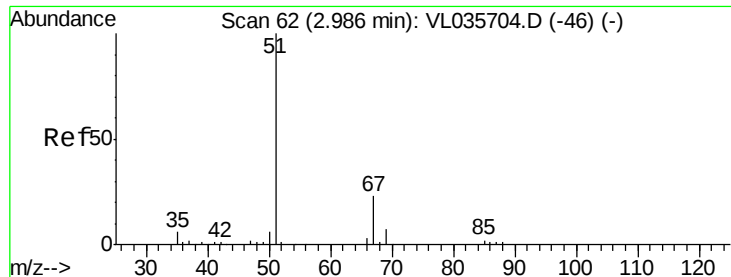
87 29.5 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.109 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.04 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

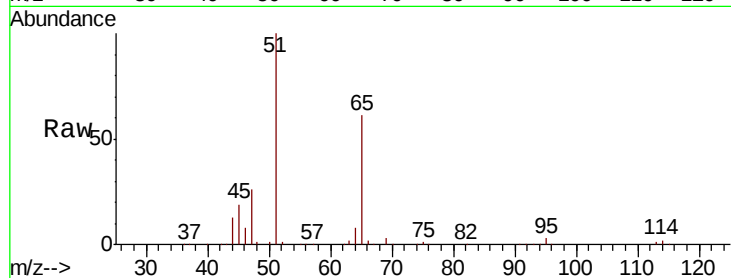
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Tot Ion: 51 Resp: 1142341

Ion Ratio Lower Upper

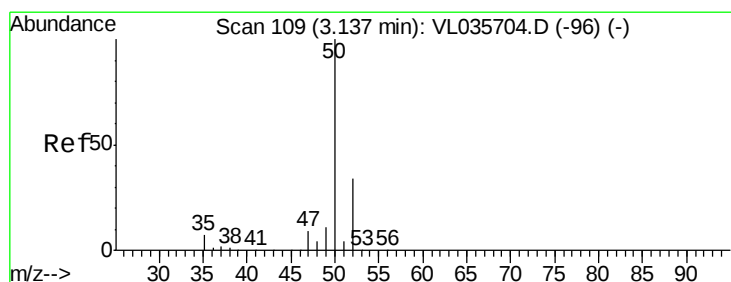
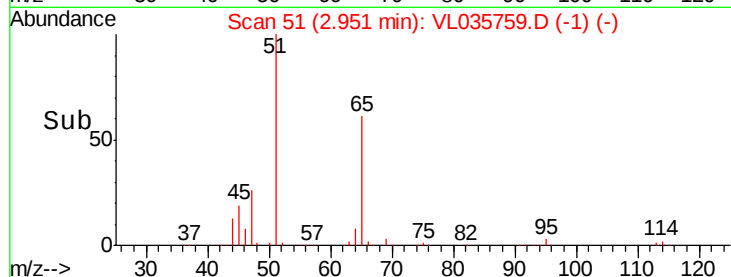
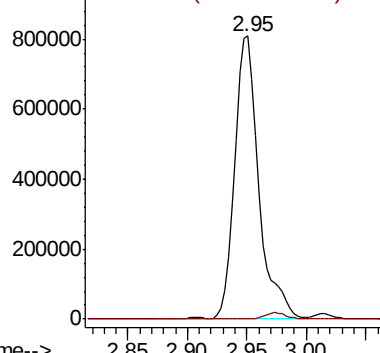
51 100

67 2.0 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.545 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL035759.D

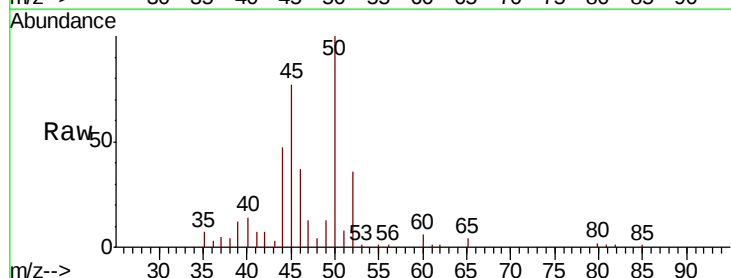
Acq: 12 Oct 2020 13:19

Tgt Ion: 50 Resp: 33075

Ion Ratio Lower Upper

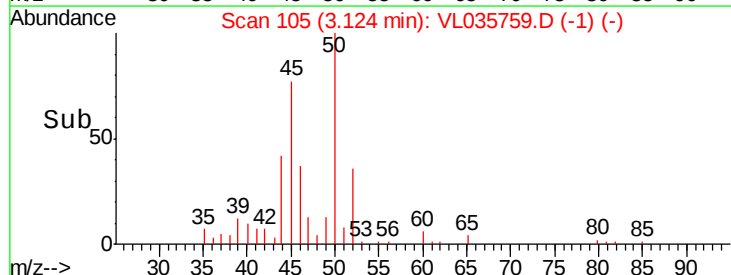
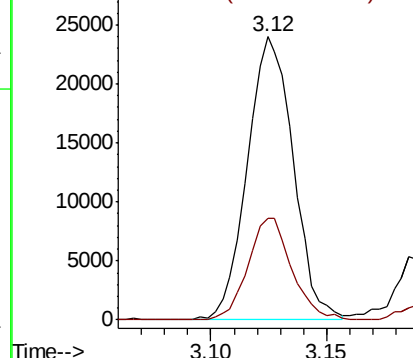
50 100

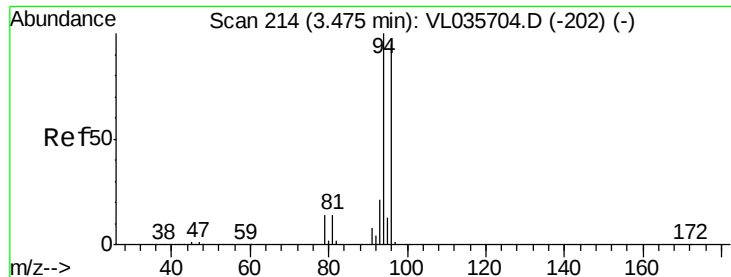
52 36.0 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 0.030 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

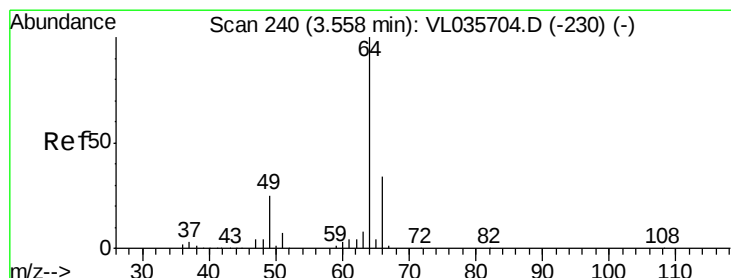
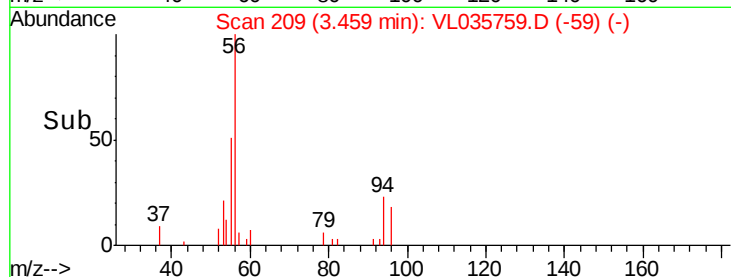
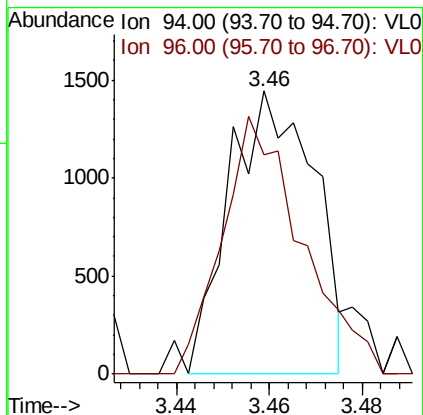
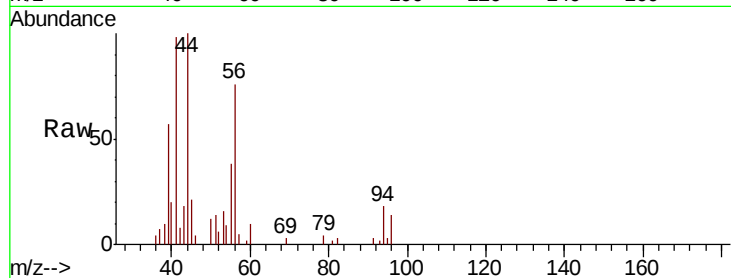
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Tot Ion: 94 Resp: 1842

Ion Ratio Lower Upper

94 100

96 66.6 76.3 114.5#



#7

Chloroethane

Concen: 0.098 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.02 min

Lab File: VL035759.D

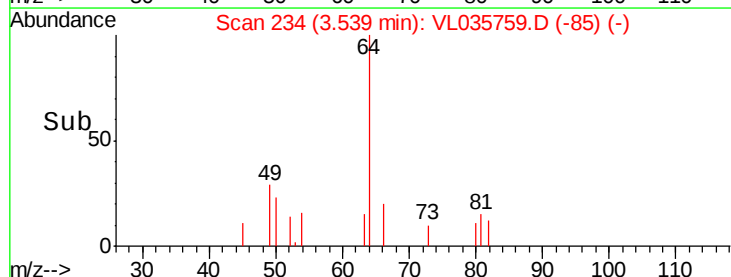
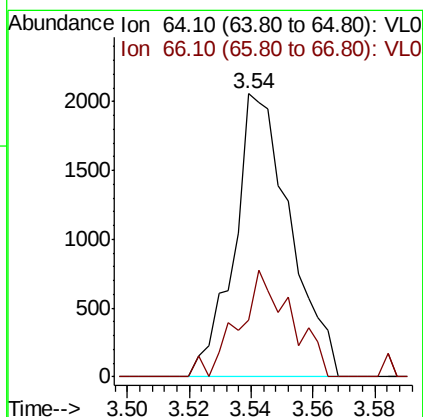
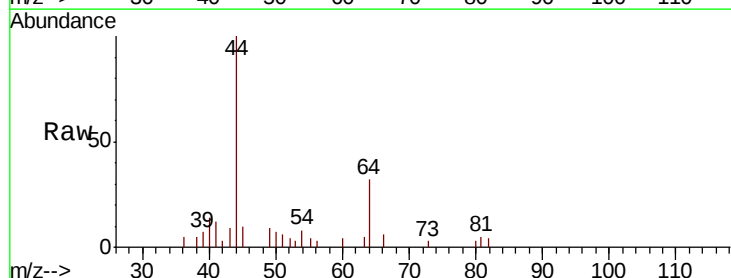
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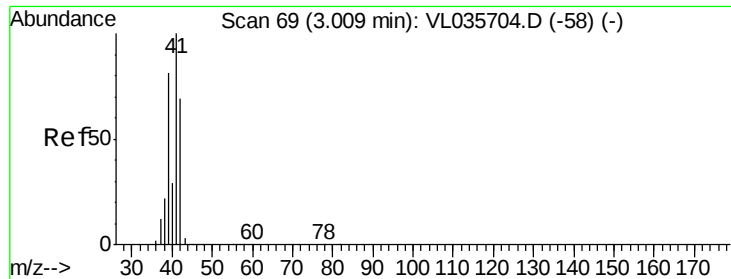
Tgt Ion: 64 Resp: 2585

Ion Ratio Lower Upper

64 100

66 20.2 26.9 40.3#





#9

Propene

Concen: 18.553 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

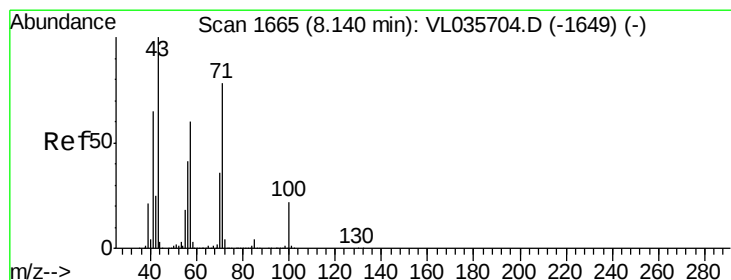
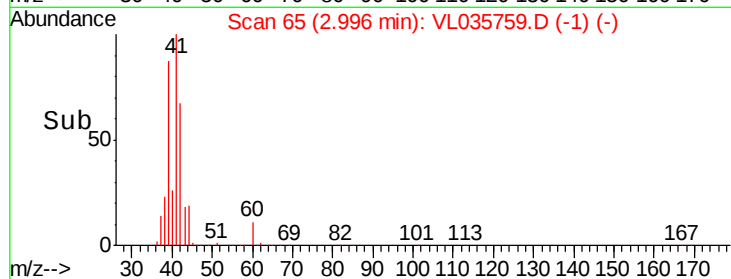
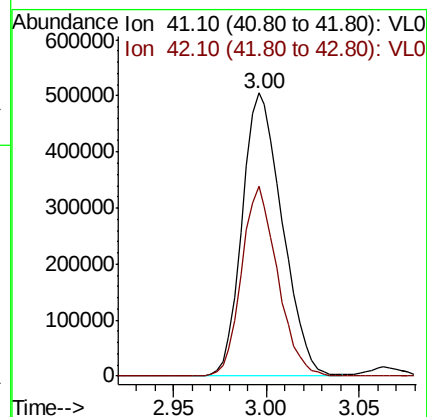
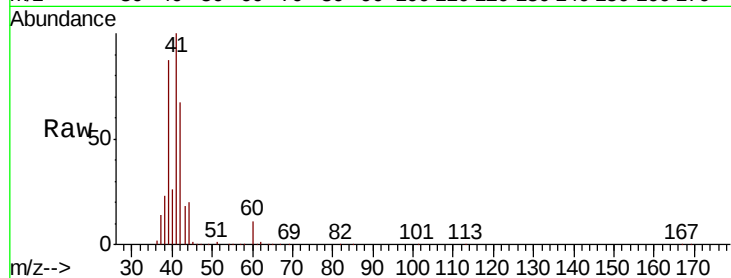
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Tot Ion: 41 Resp: 761227

Ion Ratio Lower Upper

41 100

42 60.6 56.2 84.4



#10

Heptane

Concen: 5.421 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.02 min

Lab File: VL035759.D

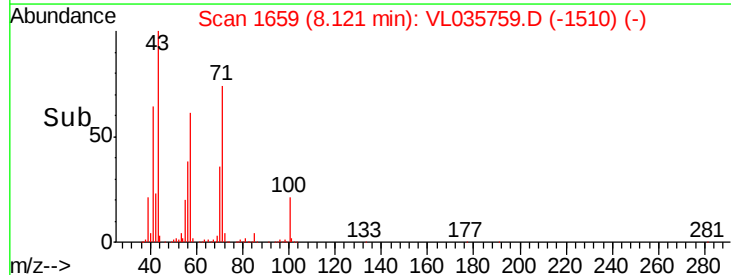
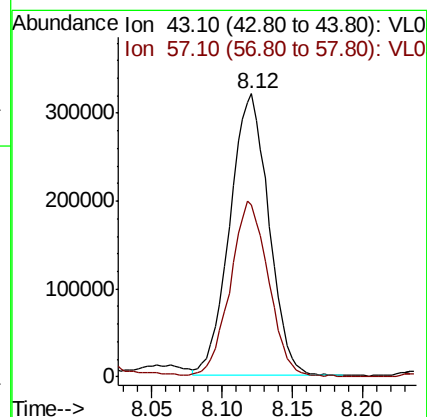
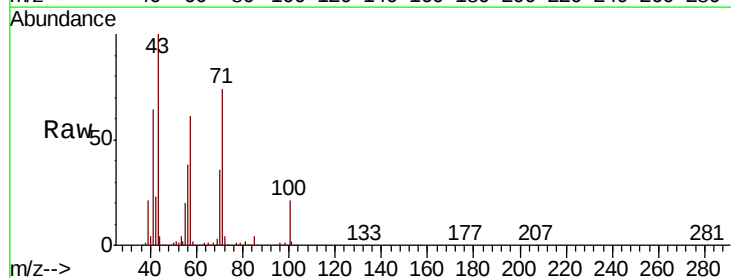
Acq: 12 Oct 2020 13:19

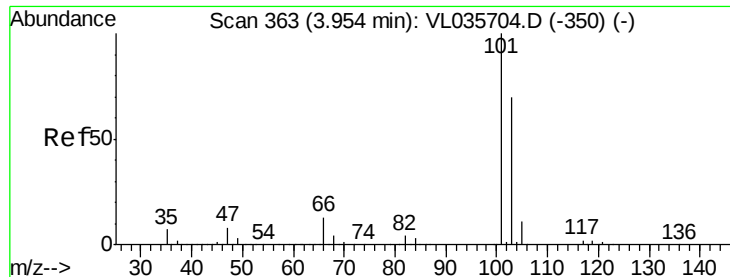
Tgt Ion: 43 Resp: 620094

Ion Ratio Lower Upper

43 100

57 61.1 50.4 75.6

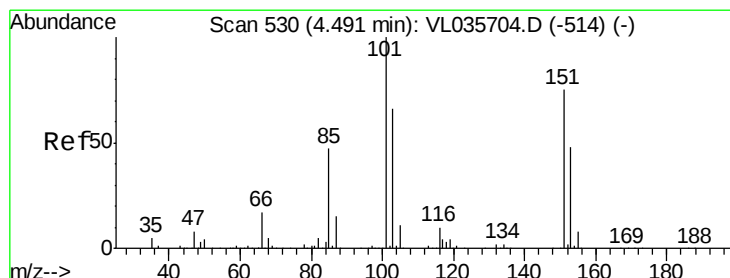
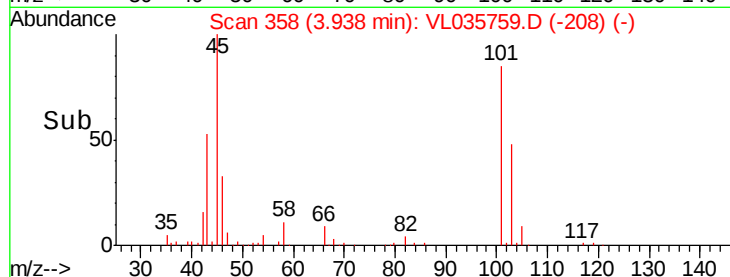
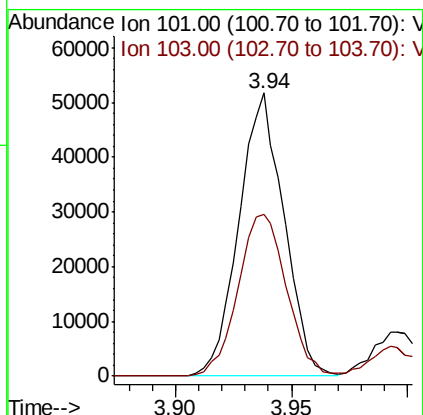
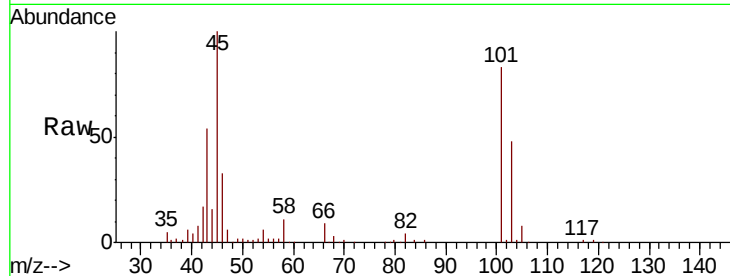




#11
 Trichlorofluoromethane
 Concen: 0.284 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

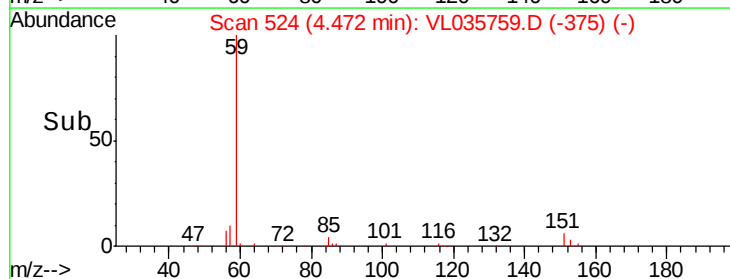
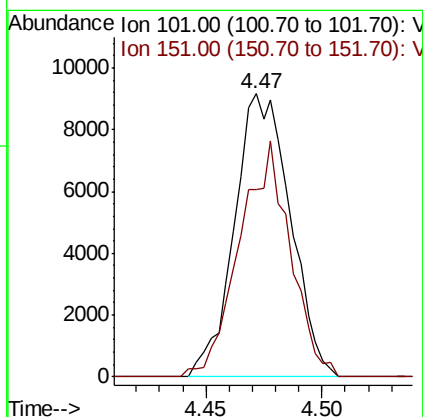
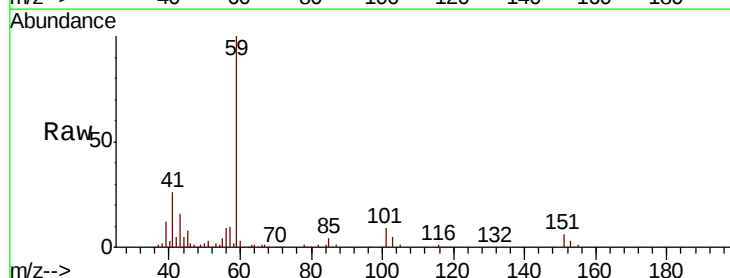
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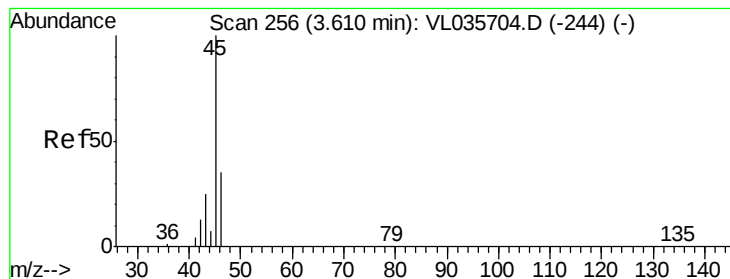
Tot Ion:101 Resp: 69840
 Ion Ratio Lower Upper
 101 100
 103 56.8 55.6 83.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.083 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Tgt Ion:101 Resp: 15285
 Ion Ratio Lower Upper
 101 100
 151 75.5 59.1 88.7





#13

Ethanol

Concen: 2475.997 ppbv

RT: 3.70 min Scan# 283

Delta R.T. 0.09 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

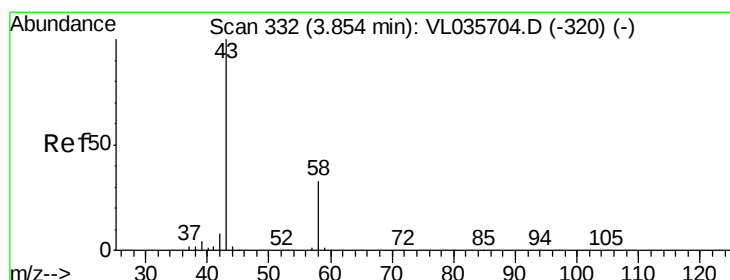
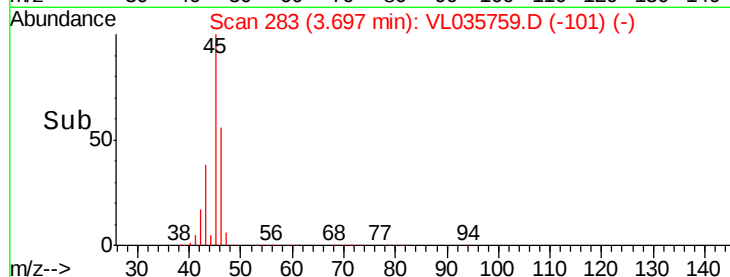
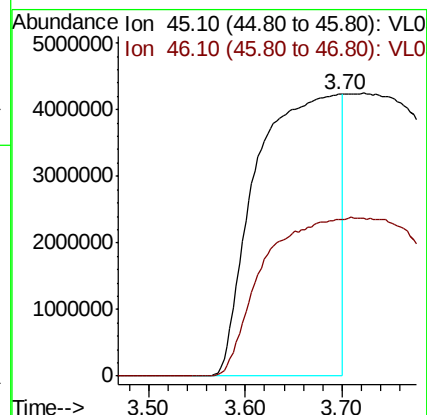
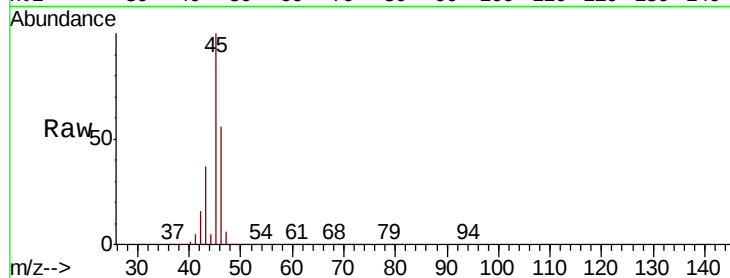
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Tot Ion: 45 Resp:25052781

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.7#



#15

Acetone

Concen: 107.169 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL035759.D

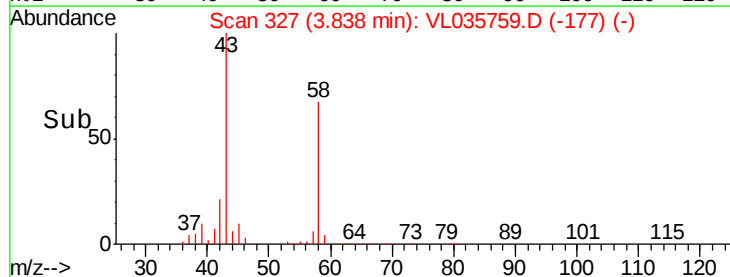
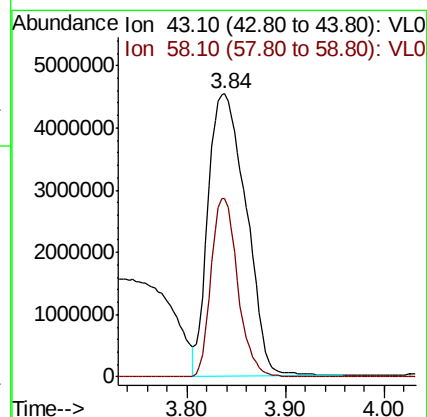
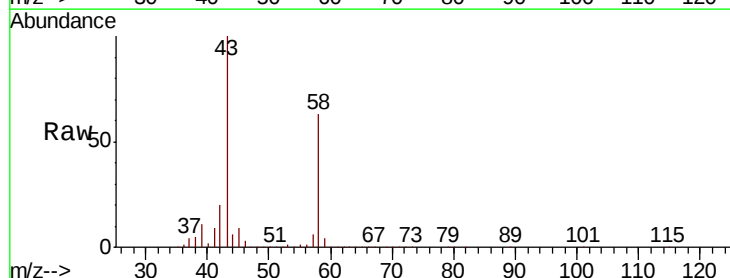
Acq: 12 Oct 2020 13:19

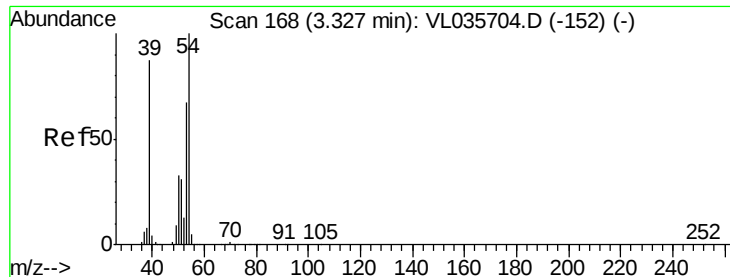
Tgt Ion: 43 Resp:12112838

Ion Ratio Lower Upper

43 100

58 44.9 27.3 40.9#

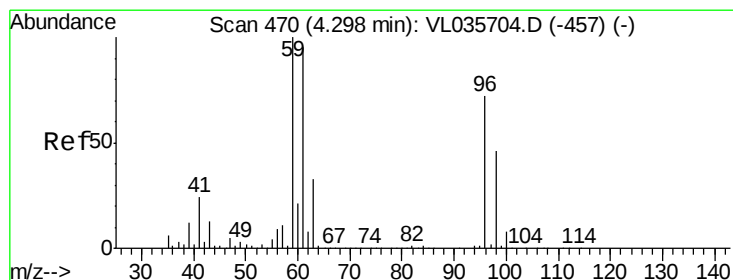
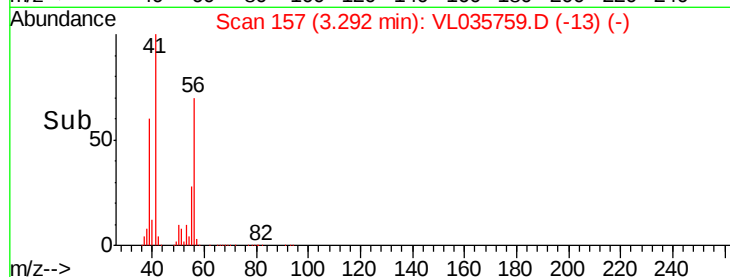
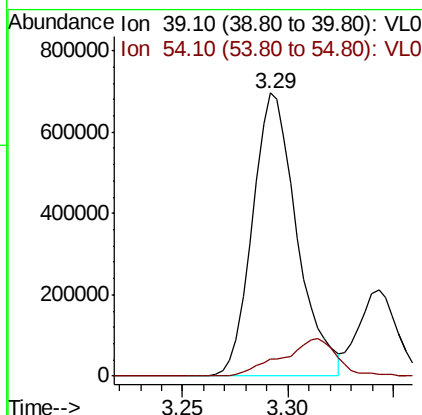
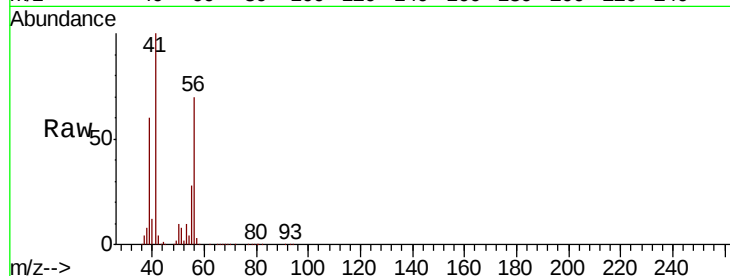




#16
 1,3-Butadiene
 Concen: 24.675 ppbv
 RT: 3.29 min Scan# 157
 Delta R.T. -0.04 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

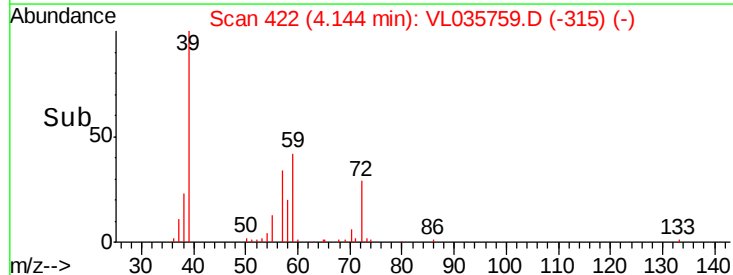
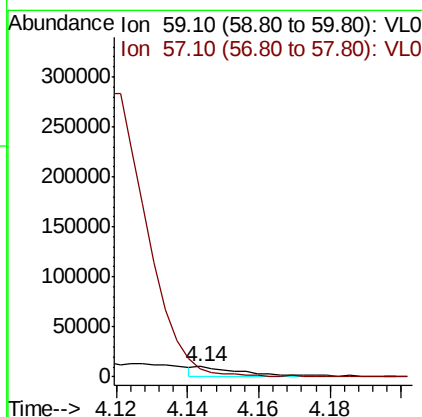
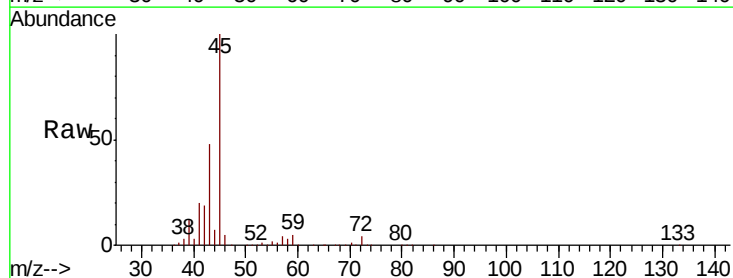
Instrument :
 MSVOA_L
 ClientSampleId :
 1

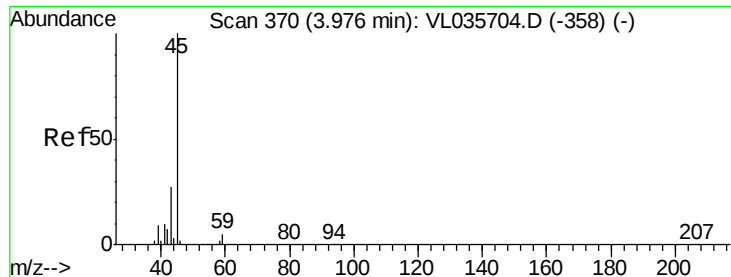
Tot Ion: 39 Resp: 1020310
 Ion Ratio Lower Upper
 39 100
 54 16.6 87.4 131.0#



#17
 tert-Butyl alcohol
 Concen: 0.061 ppbv
 RT: 4.14 min Scan# 422
 Delta R.T. -0.15 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Tgt Ion: 59 Resp: 7561
 Ion Ratio Lower Upper
 59 100
 57 5464.7 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 9.683 ppbv

RT: 4.08 min Scan# 402

Delta R.T. 0.10 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

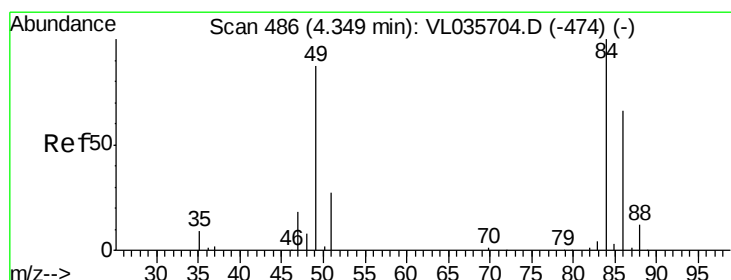
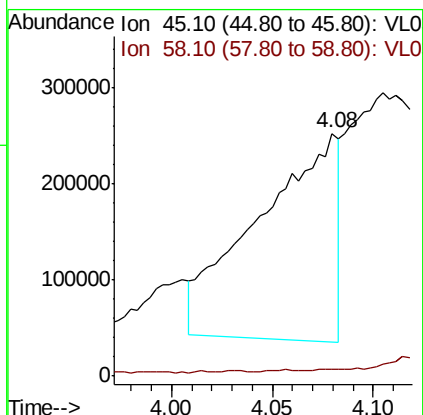
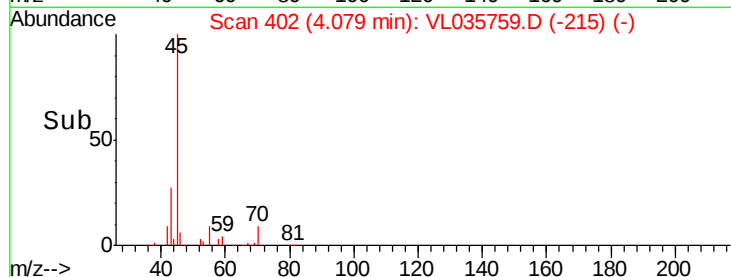
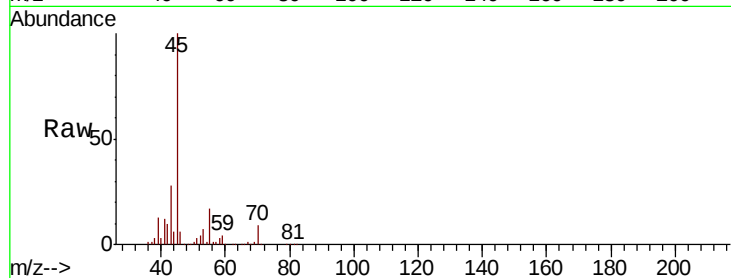
1

Tot Ion: 45 Resp: 595353

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



#20

Methylene Chloride

Concen: 21.176 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Tgt Ion: 84 Resp: 1758101

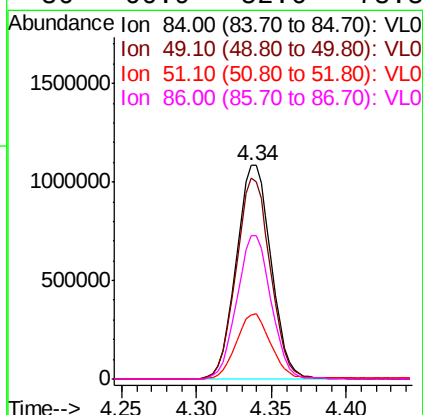
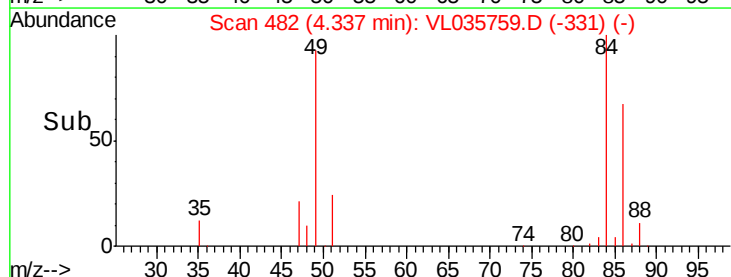
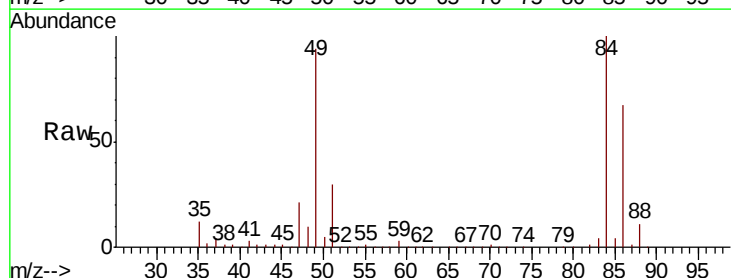
Ion Ratio Lower Upper

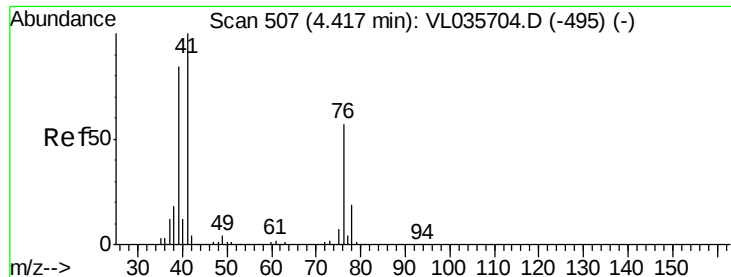
84 100

49 94.0 69.8 104.6

51 29.6 21.8 32.8

86 66.9 52.6 78.8





#21

Allvl Chloride

Concen: 1.092 ppbv

RT: 4.45 min Scan# 518

Delta R.T. 0.04 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :
MSVOA_L
ClientSampleId :
1

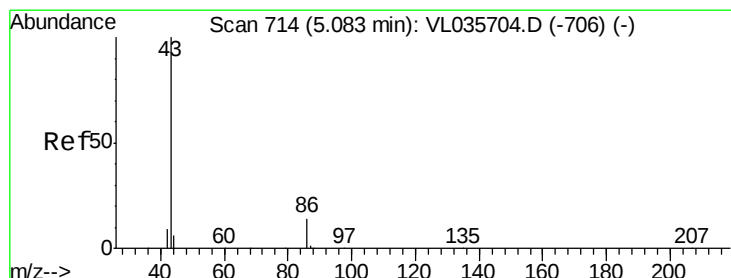
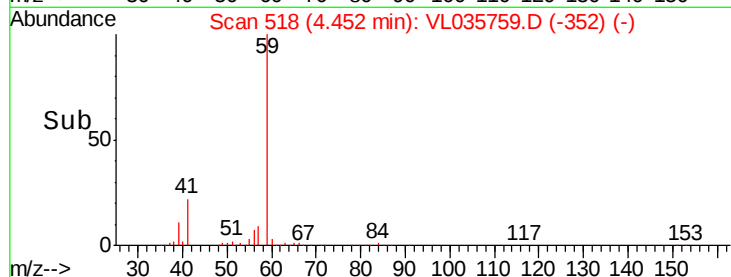
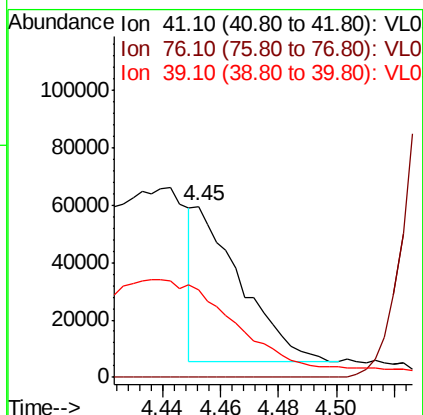
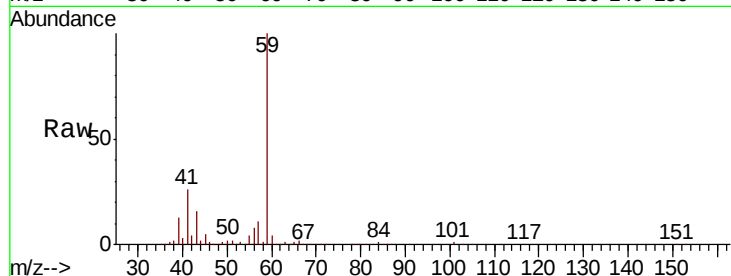
Tot Ion: 41 Resp: 59838

Ion Ratio Lower Upper

41 100

76 0.0 44.8 67.2#

39 171.8 68.4 102.6#



#23

Vinyl Acetate

Concen: 2.854 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.03 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Tgt Ion: 43 Resp: 395045

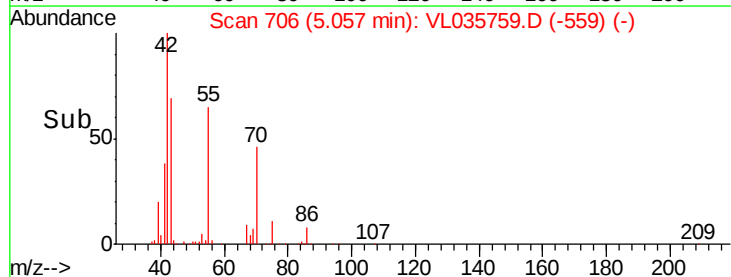
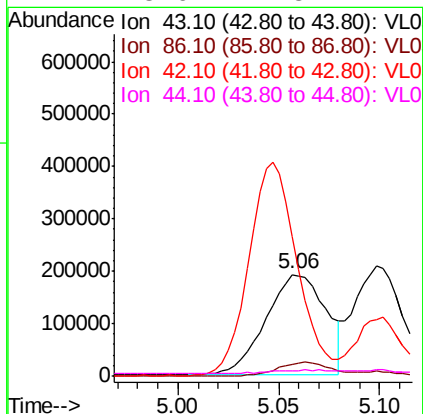
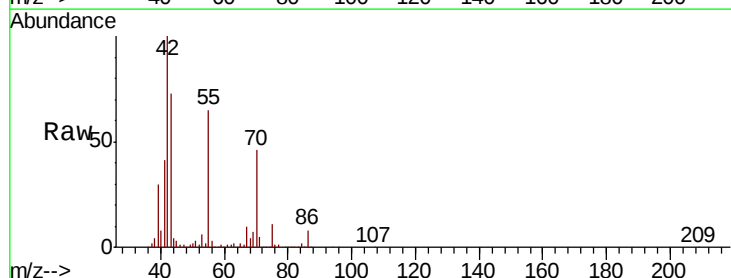
Ion Ratio Lower Upper

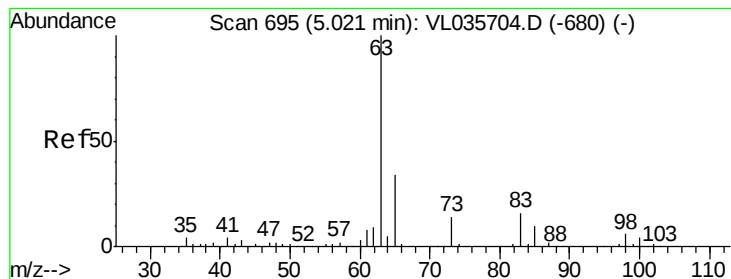
43 100

86 11.5 9.7 14.5

42 138.5 7.9 11.9#

44 3.6 4.8 7.2#





#24

1,1-Dichloroethane

Concen: 0.036 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

1

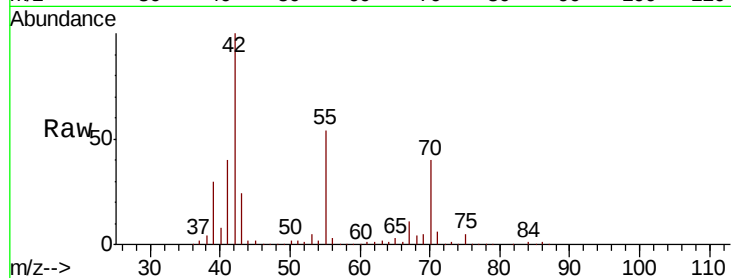
Tot Ion: 63 Resp: 5398

Ion Ratio Lower Upper

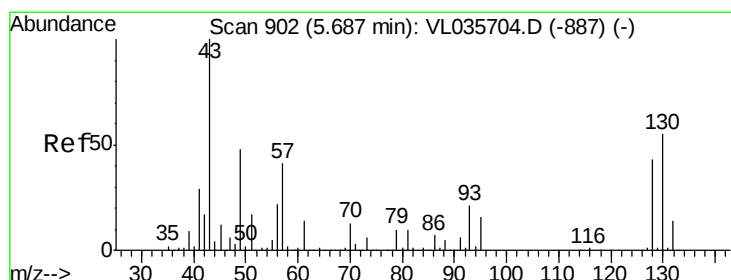
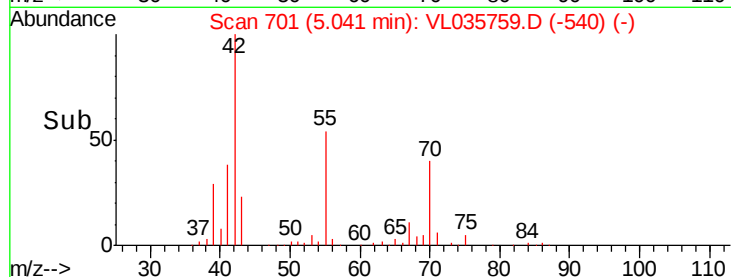
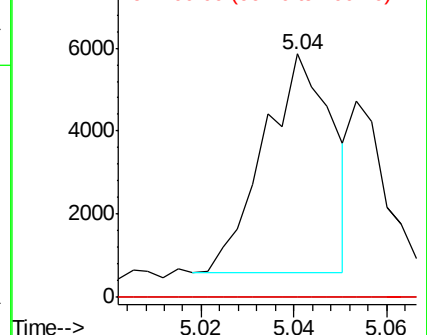
63 100

98 0.0 3.3 9.8#

100 0.0 2.0 5.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 15.163 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Tgt Ion: 43 Resp: 3083746

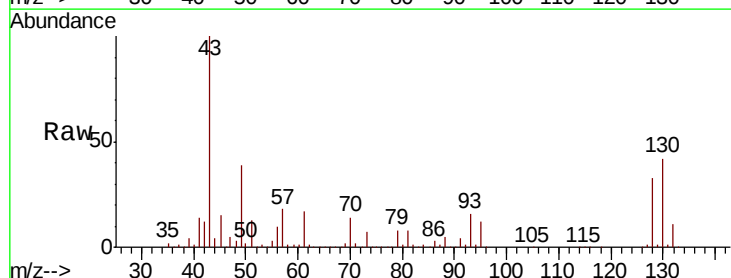
Ion Ratio Lower Upper

43 100

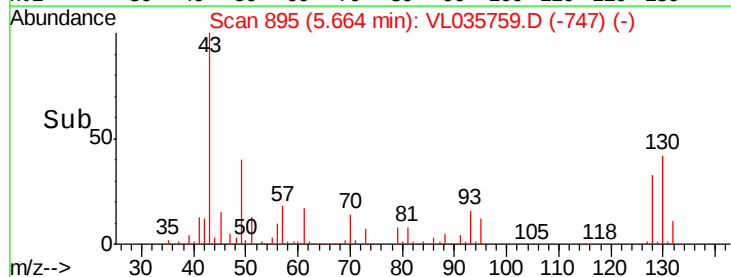
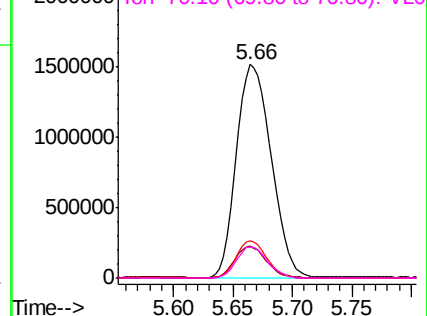
45 13.3 8.6 12.8#

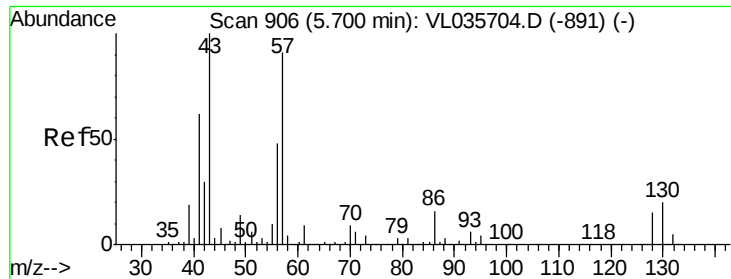
61 15.2 10.4 15.6

70 13.0 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



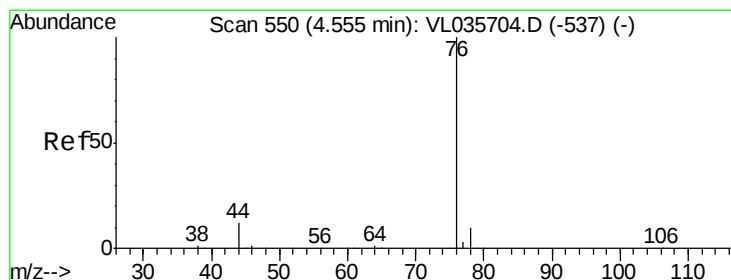
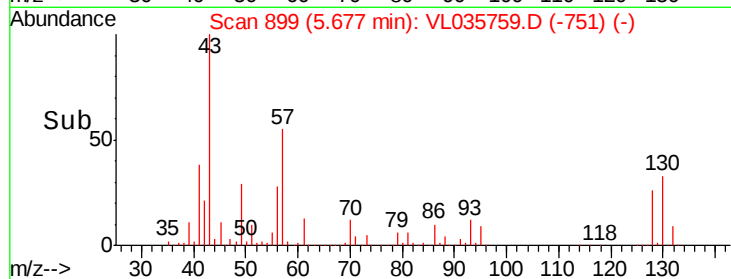
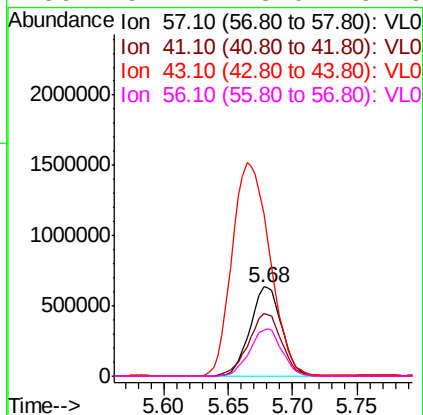
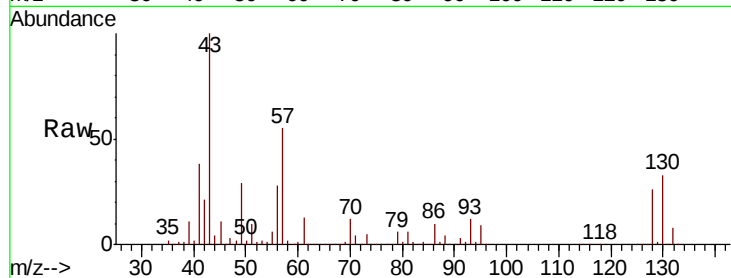


#26
Hexane
Concen: 9.746 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

Instrument :
MSVOA_L
ClientSampleId :
1

Tot Ion: 57 Resp: 1086163

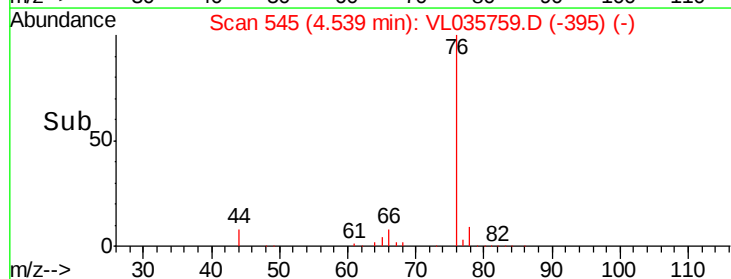
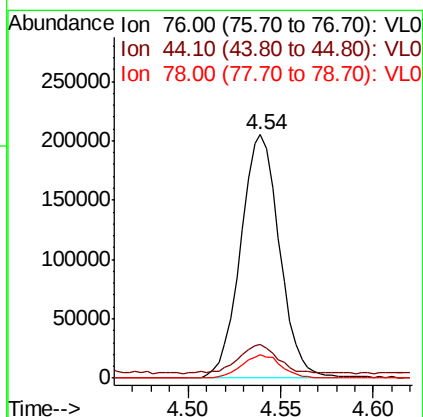
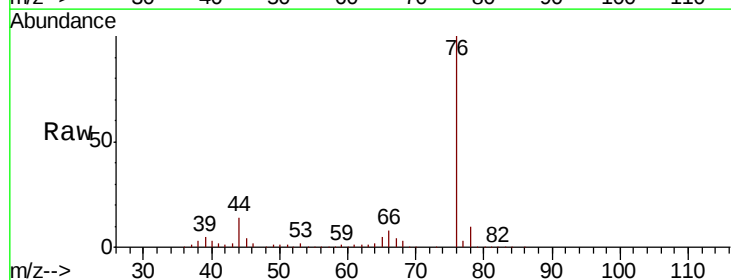
Ion	Ratio	Lower	Upper
57	100		
41	73.8	57.9	86.9
43	284.3	143.8	215.6#
56	54.2	43.0	64.6

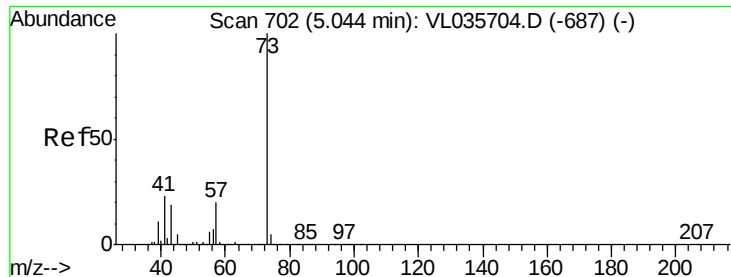


#27
Carbon Disulfide
Concen: 1.802 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.02 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

Tgt Ion: 76 Resp: 299413

Ion	Ratio	Lower	Upper
76	100		
44	12.4	9.7	14.5
78	9.9	7.8	11.8



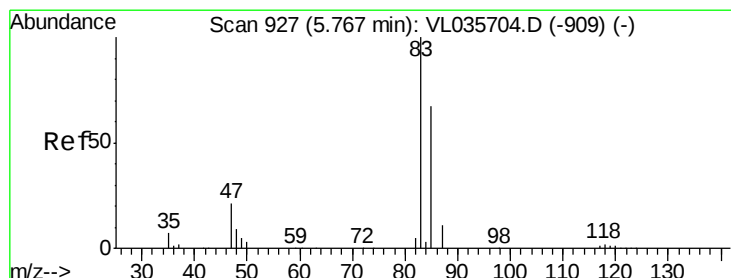
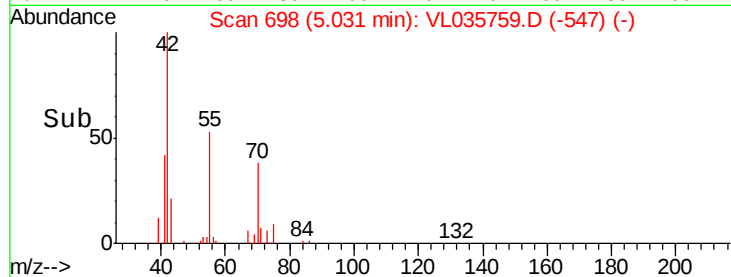
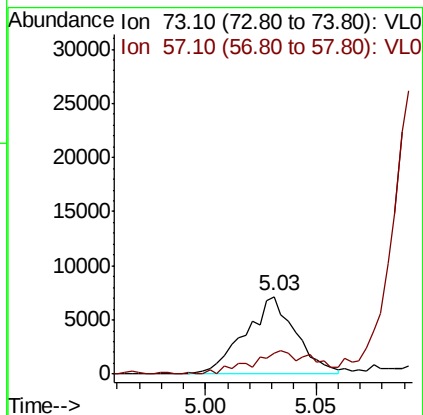
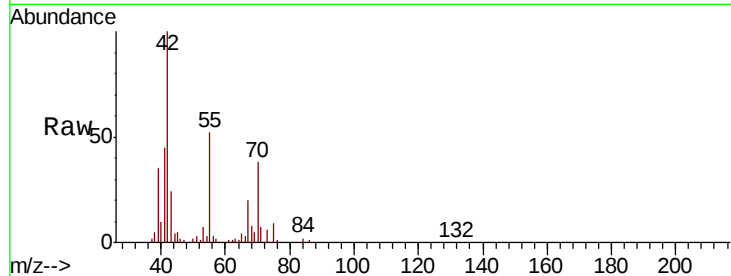


#28

Methvl tert-Butvl Ether
 Concen: 0.064 ppbv
 RT: 5.03 min Scan# 698
 Delta R.T. -0.01 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Instrument :
 MSVOA_L
 ClientSampled :
 1

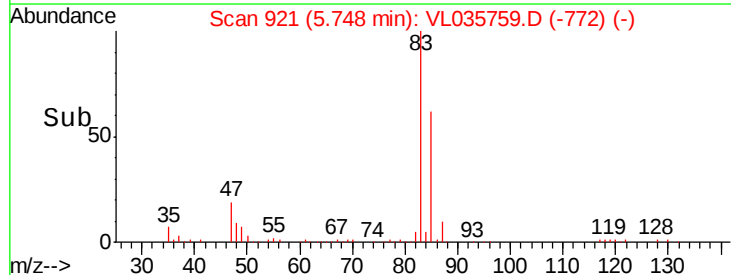
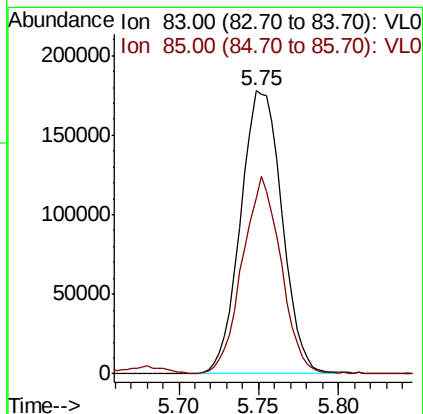
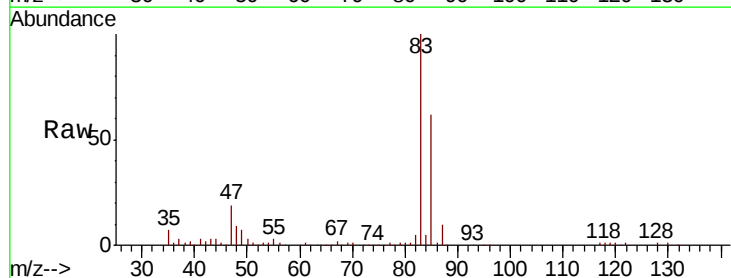
Tot Ion: 73 Resp: 11355
 Ion Ratio Lower Upper
 73 100
 57 469.0 15.6 23.4#

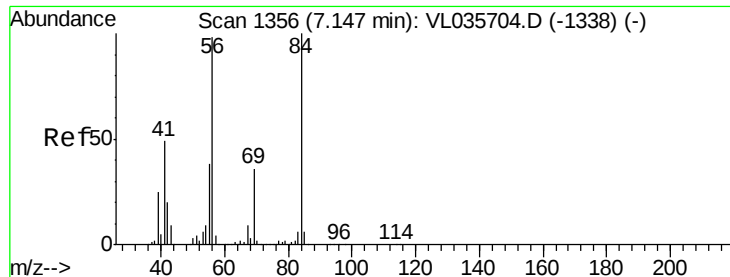


#29

Chloroform
 Concen: 1.388 ppbv
 RT: 5.75 min Scan# 921
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Tgt Ion: 83 Resp: 314235
 Ion Ratio Lower Upper
 83 100
 85 61.8 54.0 81.0

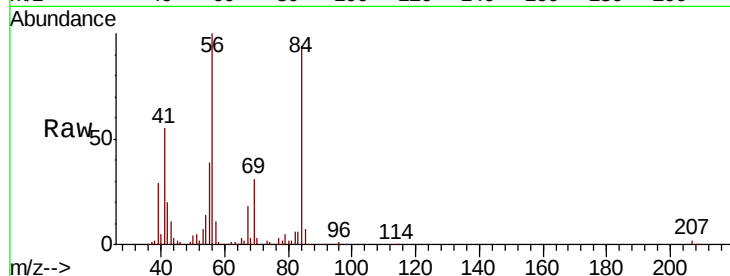




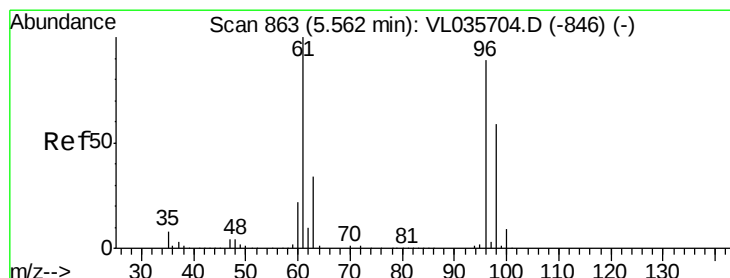
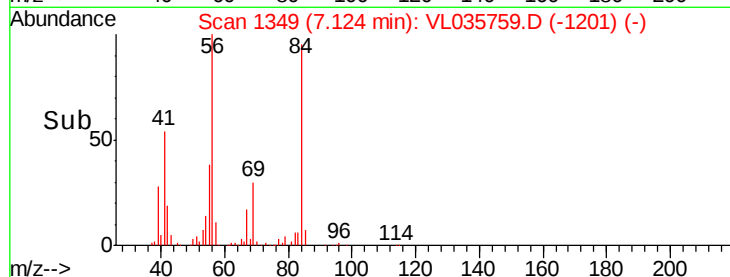
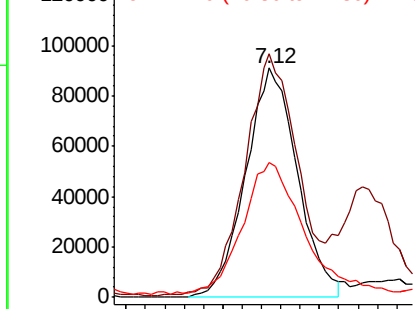
#30
Cyclohexane
Concen: 1.527 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

Instrument :
MSVOA_L
ClientSampleId :
1

Tot Ion: 84 Resp: 167945
Ion Ratio Lower Upper
84 100
56 108.0 84.6 127.0
41 68.8 41.1 61.7#

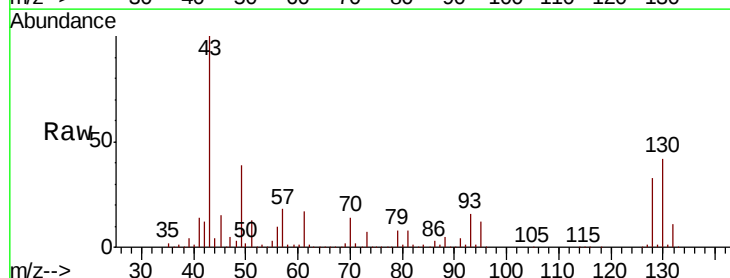


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

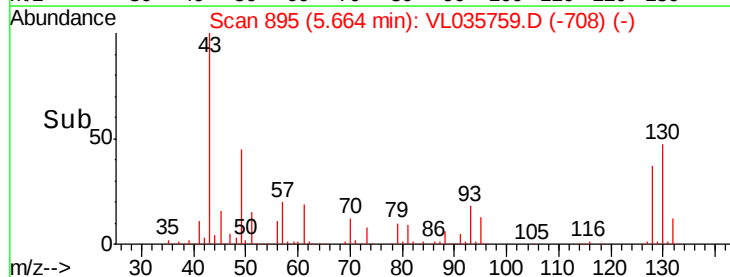
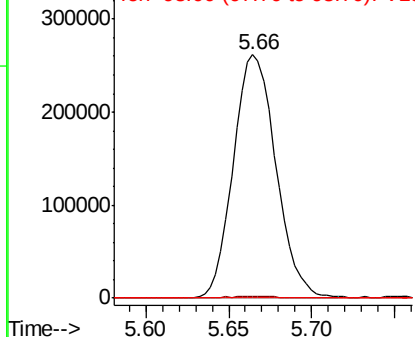


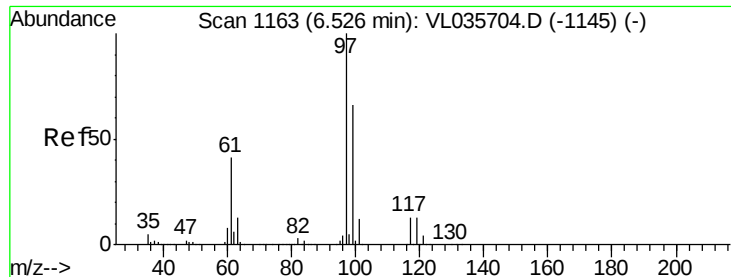
#31
cis-1,2-Dichloroethene
Concen: 4.358 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.10 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

Tgt Ion: 61 Resp: 468854
Ion Ratio Lower Upper
61 100
96 0.8 71.4 107.2#
98 0.0 47.4 71.2#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.706 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

1

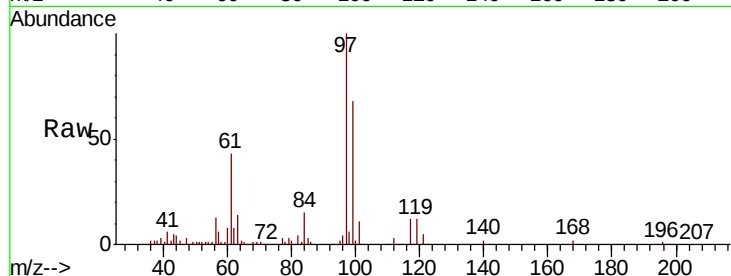
Tot Ion: 97 Resp: 140854

Ion Ratio Lower Upper

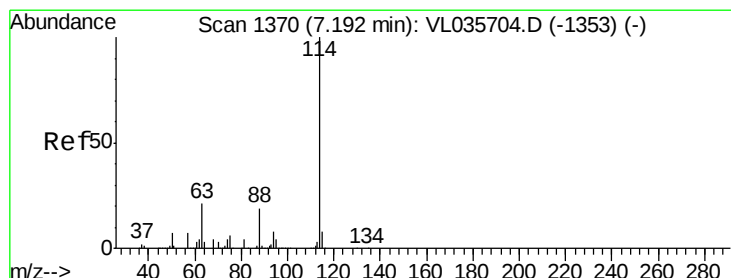
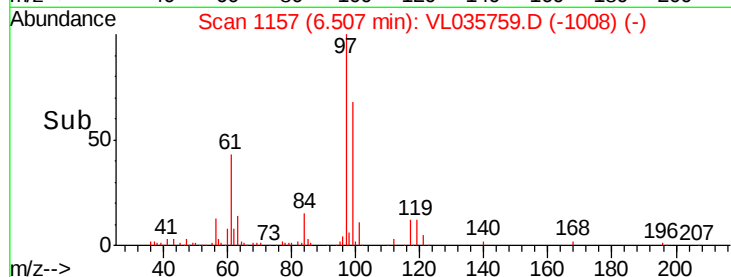
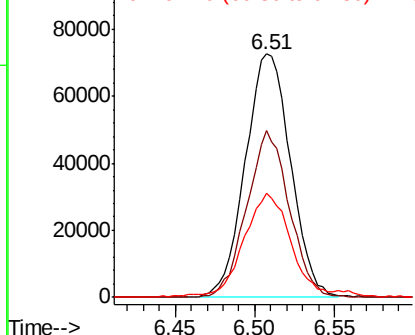
97 100

99 64.2 52.7 79.1

61 46.0 32.7 49.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

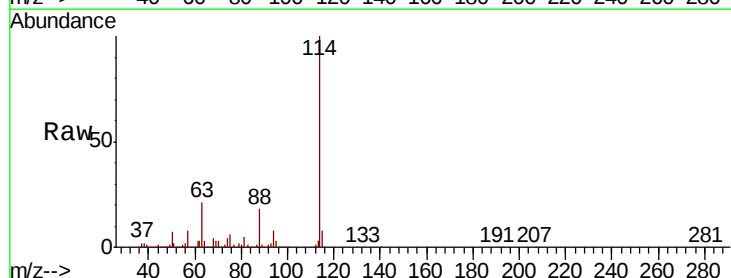
Tgt Ion: 114 Resp: 4269321

Ion Ratio Lower Upper

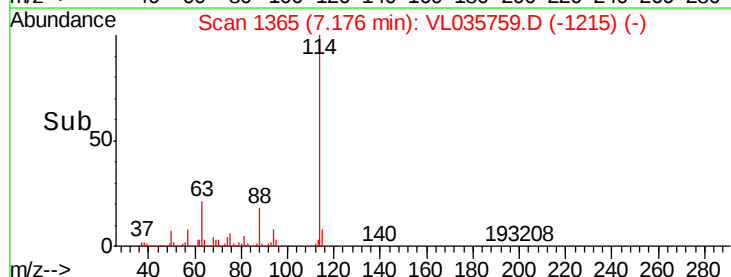
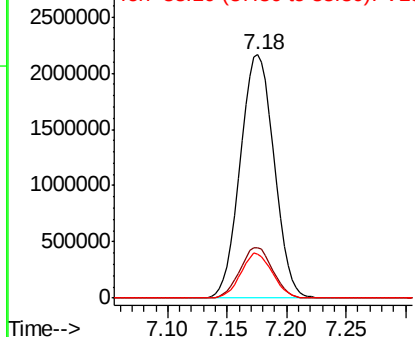
114 100

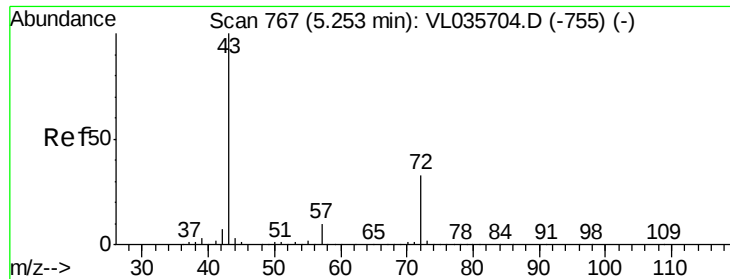
63 20.2 16.1 24.1

88 17.4 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

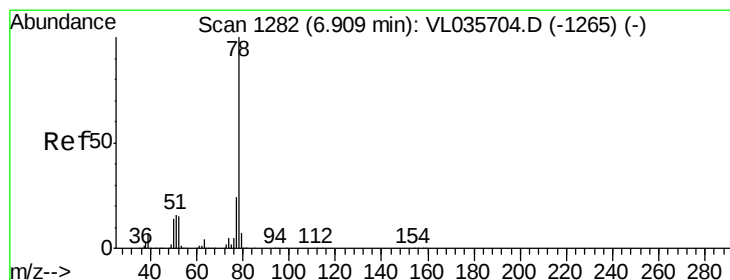
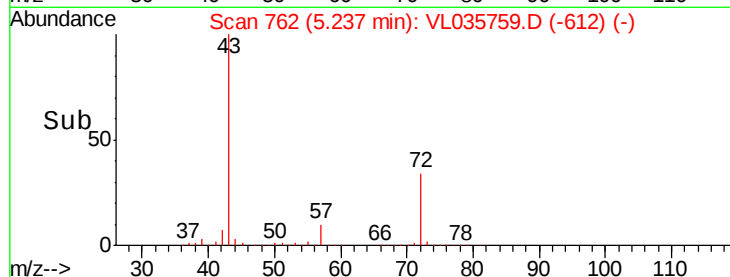
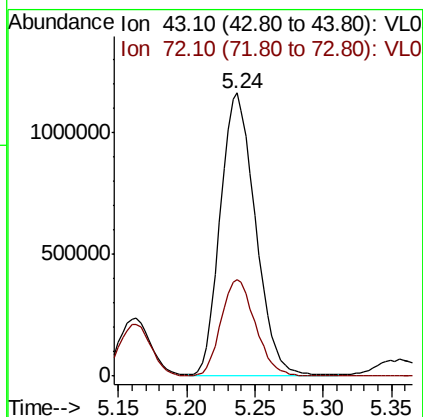
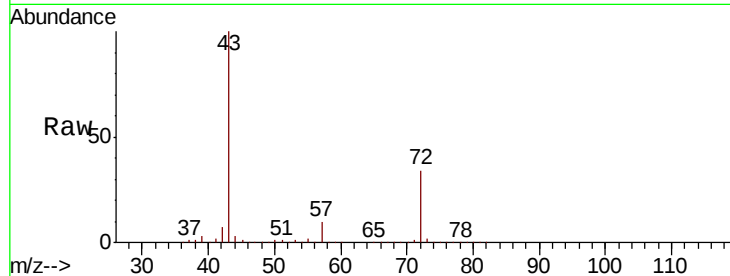




#34
2-Butanone
Concen: 14.702 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

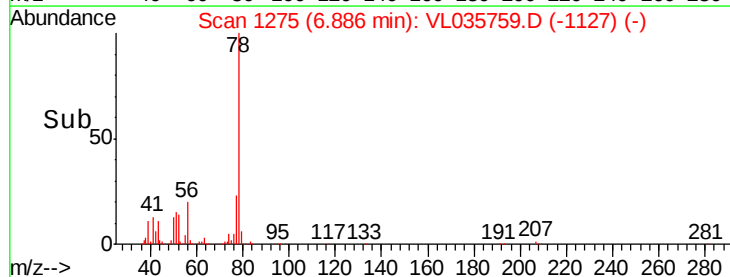
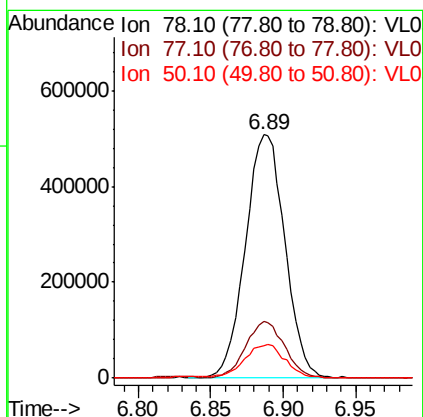
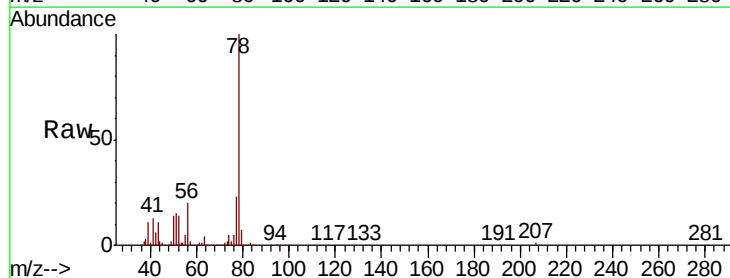
Instrument :
MSVOA_L
ClientSampleId :
1

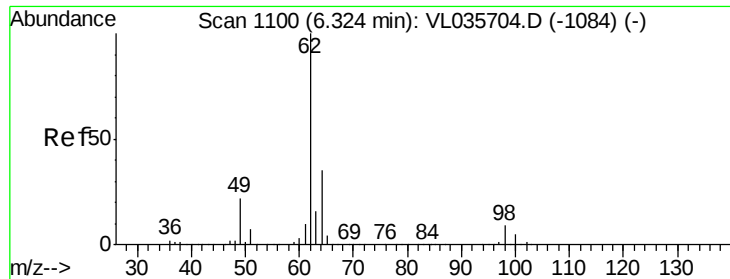
Tot Ion: 43 Resp: 2076025
Ion Ratio Lower Upper
43 100
72 33.1 26.1 39.1



#36
Benzene
Concen: 3.441 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

Tgt Ion: 78 Resp: 957243
Ion Ratio Lower Upper
78 100
77 23.2 19.3 28.9
50 13.2 11.6 17.4

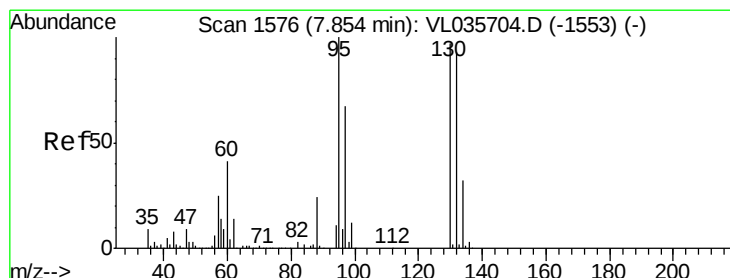
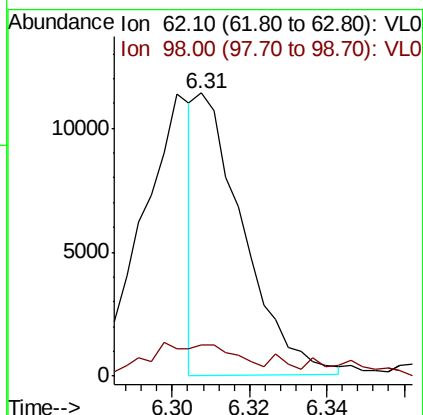
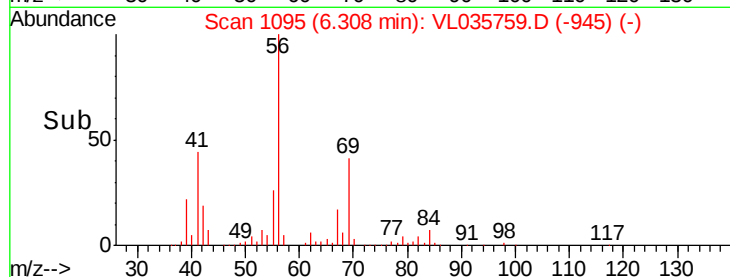
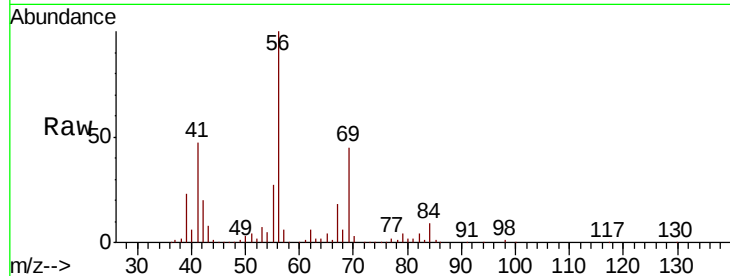




#37
 1,2-Dichloroethane
 Concen: 0.066 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

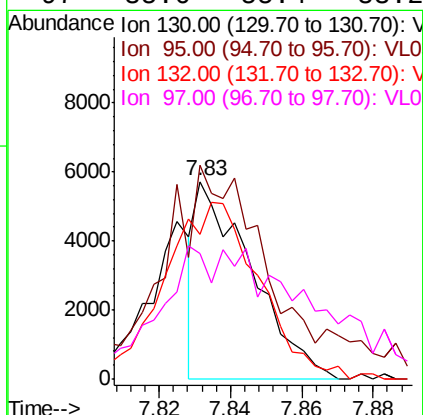
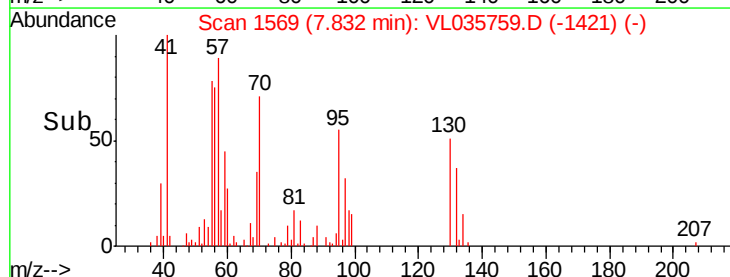
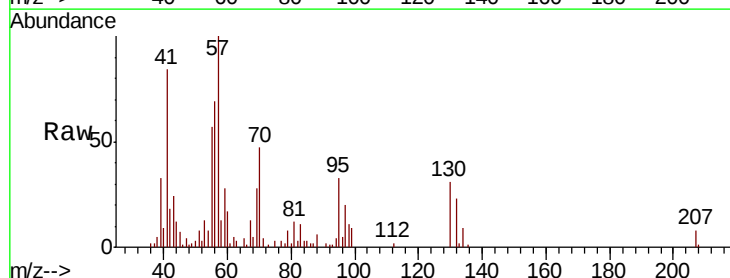
Instrument :
 MSVOA_L
 ClientSampled :
 1

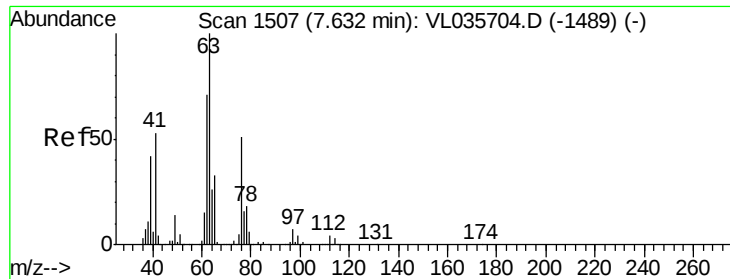
Tot Ion: 62 Resp: 9580
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.9 10.3#



#38
 Trichloroethene
 Concen: 0.045 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Tgt Ion: 130 Resp: 6184
 Ion Ratio Lower Upper
 130 100
 95 86.2 82.4 123.6
 132 66.6 76.8 115.2#
 97 35.6 55.4 83.2#





#39

1,2-Dichloropropane

Concen: 8.412 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.46 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

1

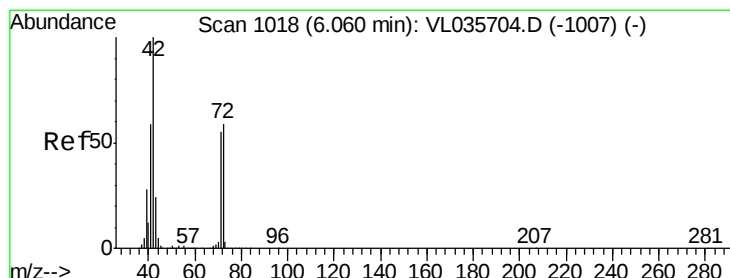
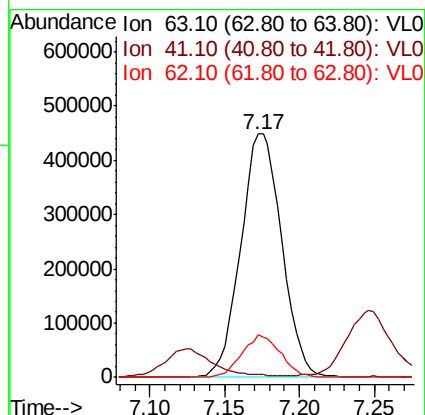
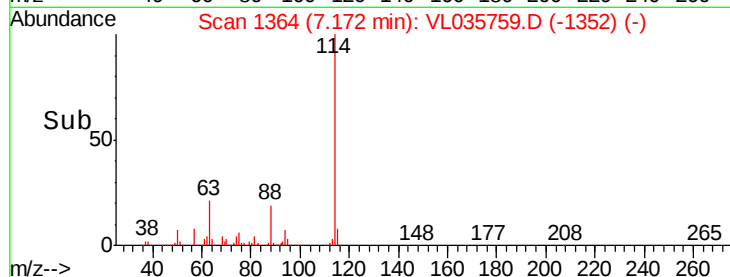
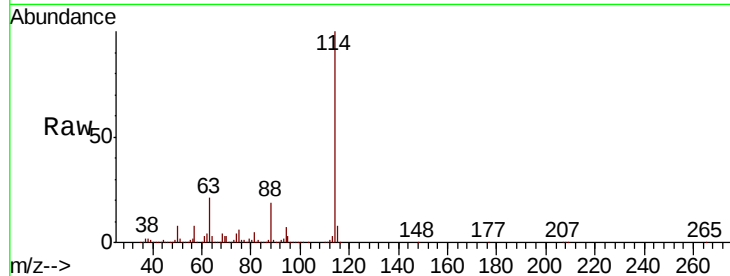
Tot Ion: 63 Resp: 848170

Ion Ratio Lower Upper

63 100

41 0.0 42.6 63.8#

62 17.3 56.5 84.7#



#41

Tetrahydrofuran

Concen: 0.080 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

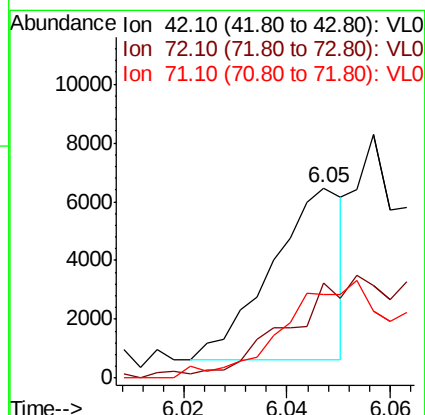
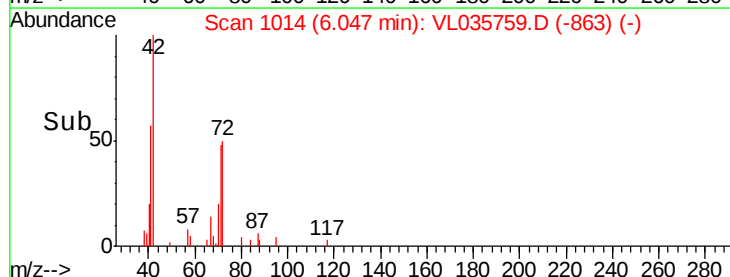
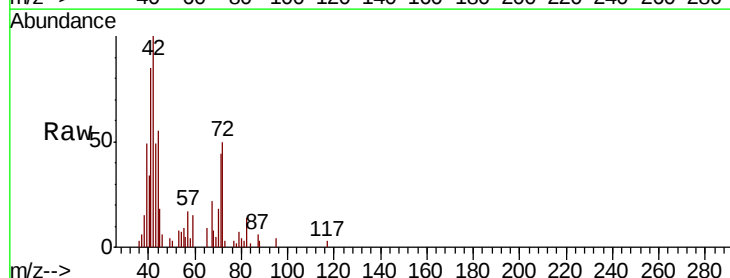
Tgt Ion: 42 Resp: 5689

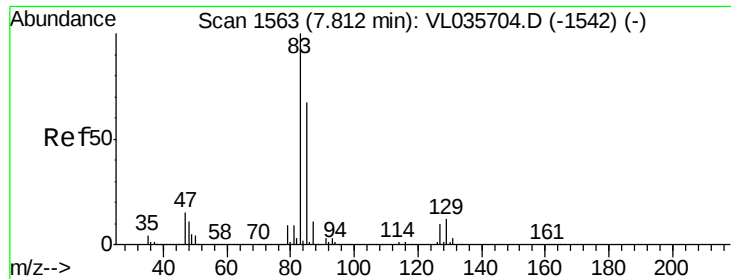
Ion Ratio Lower Upper

42 100

72 115.9 46.2 69.4#

71 97.2 44.2 66.4#





#42

Bromodichloromethane

Concen: 0.244 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

1

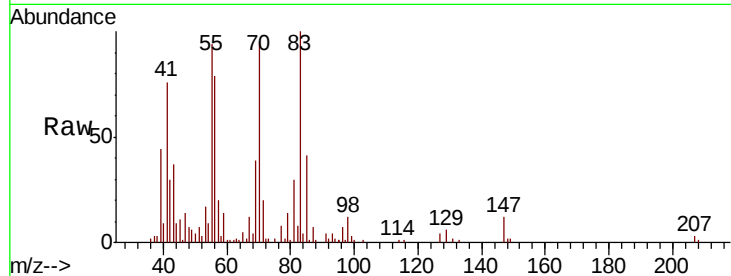
Tot Ion: 83 Resp: 57070

Ion Ratio Lower Upper

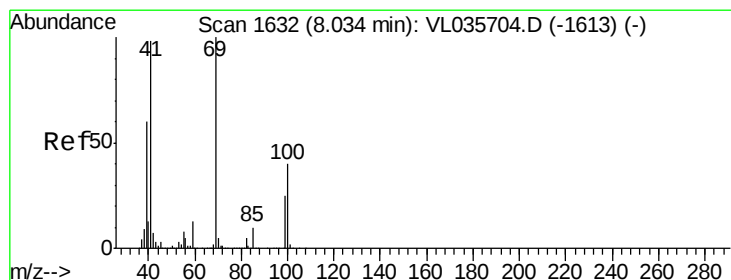
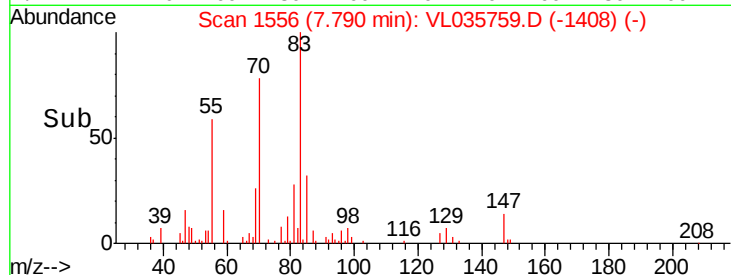
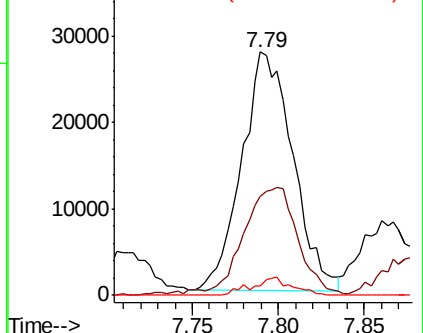
83 100

85 40.1 53.4 80.0#

127 4.1 7.8 11.6#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.069 ppbv

RT: 8.01 min Scan# 1625

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

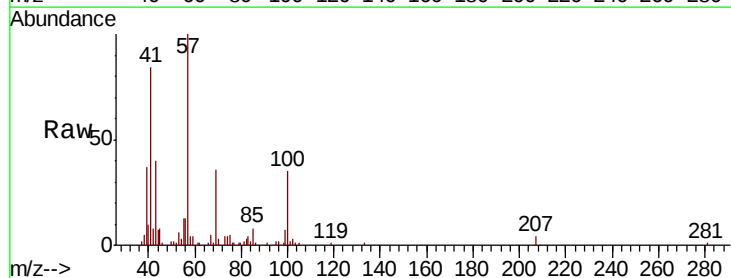
Tgt Ion: 69 Resp: 7650

Ion Ratio Lower Upper

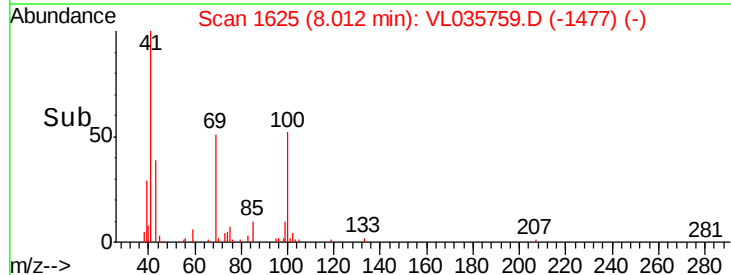
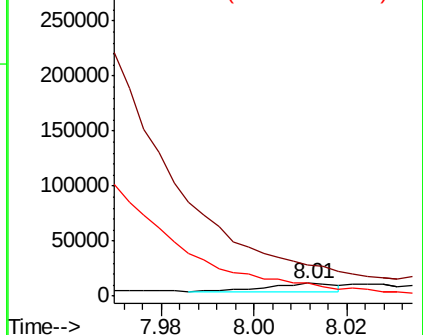
69 100

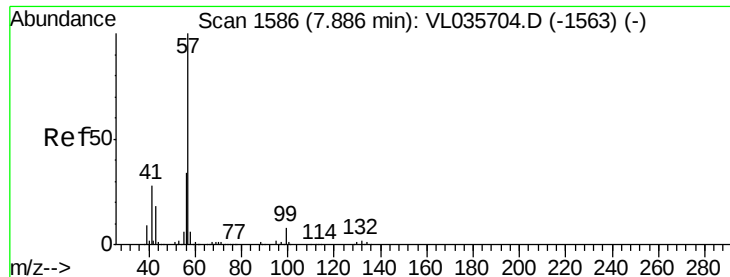
41 0.0 79.8 119.6#

100 0.0 30.6 46.0#



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

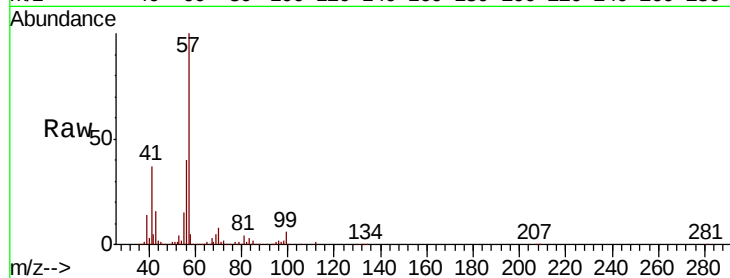




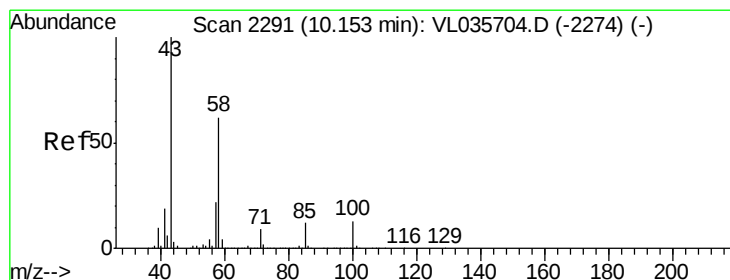
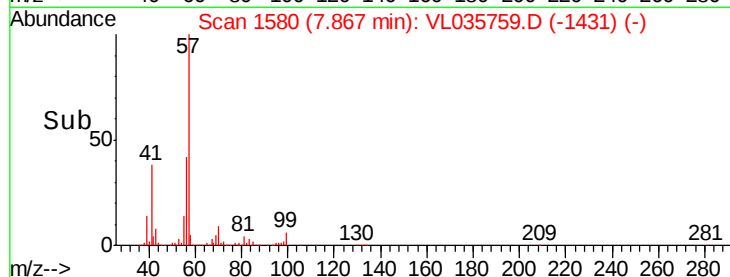
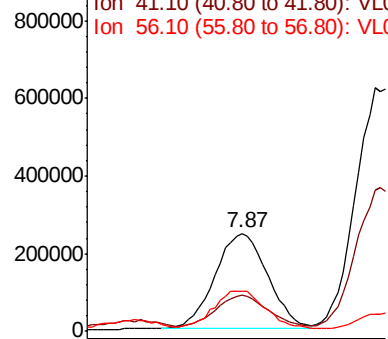
#44
 2,2,4-Trimethylpentane
 Concen: 1.357 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Instrument :
 MSVOA_L
 ClientSampled :
 1

Tot Ion: 57 Resp: 541860
 Ion Ratio Lower Upper
 57 100
 41 40.7 21.2 31.8#
 56 44.8 25.8 38.8#

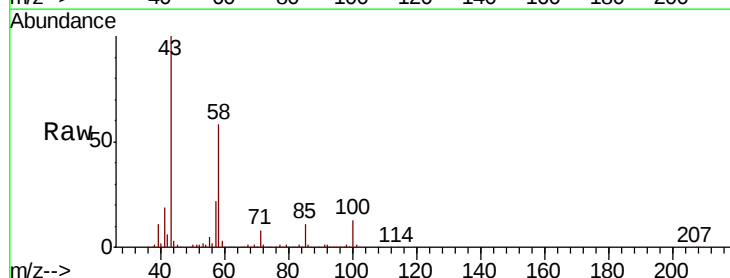


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

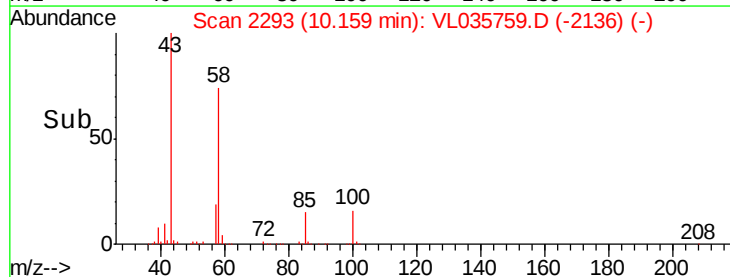
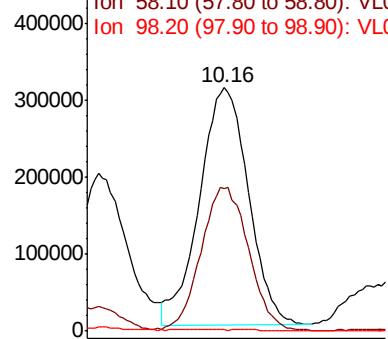


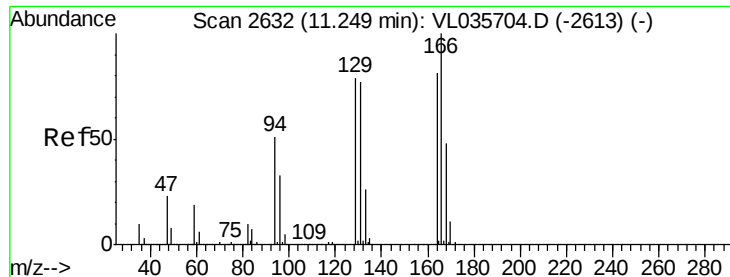
#51
 2-Hexanone
 Concen: 5.174 ppbv
 RT: 10.16 min Scan# 2293
 Delta R.T. 0.01 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Tgt Ion: 43 Resp: 859852
 Ion Ratio Lower Upper
 43 100
 58 59.0 48.7 73.1
 98 0.8 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: 0.820 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

1

Tot Ion:164 Resp: 109665

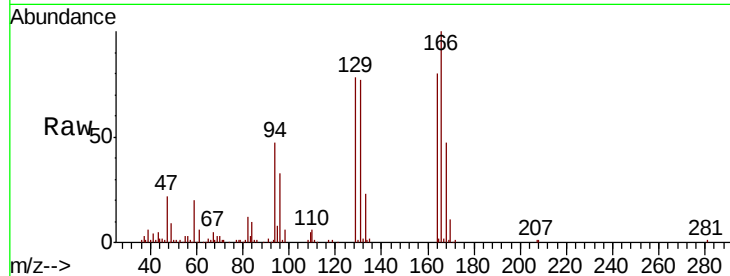
Ion Ratio Lower Upper

164 100

166 124.2 98.7 148.1

129 97.1 78.4 117.6

131 95.7 76.2 114.2

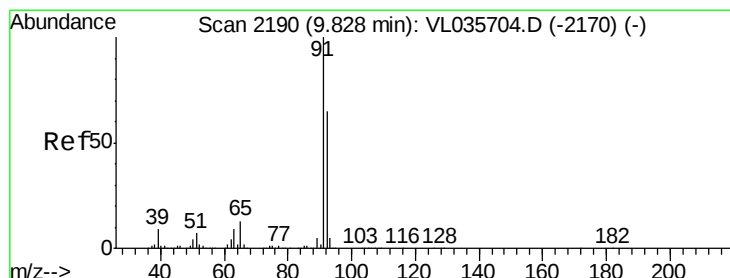
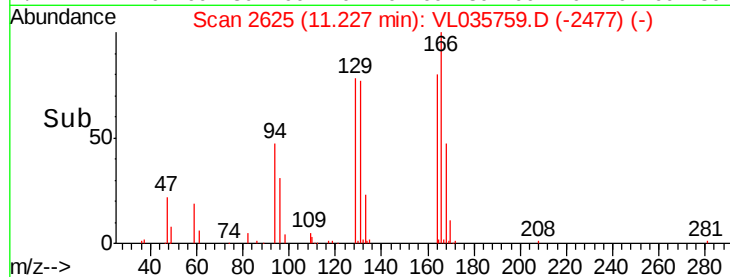
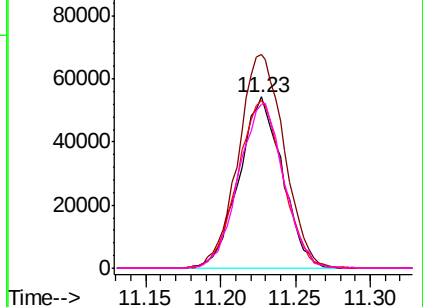


Abundance Ion 163.90 (163.60 to 164.60): V

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: 40.839 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035759.D

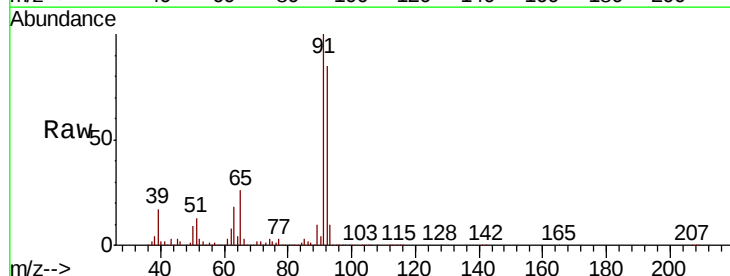
Acq: 12 Oct 2020 13:19

Tgt Ion: 91 Resp:13396605

Ion Ratio Lower Upper

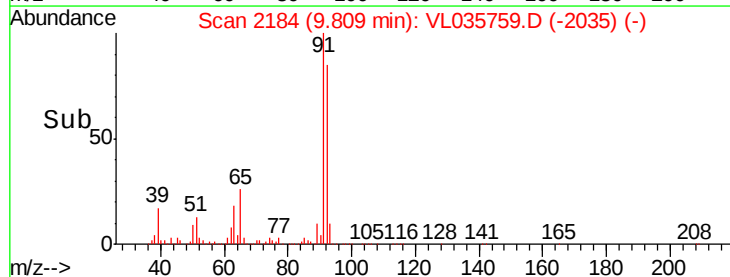
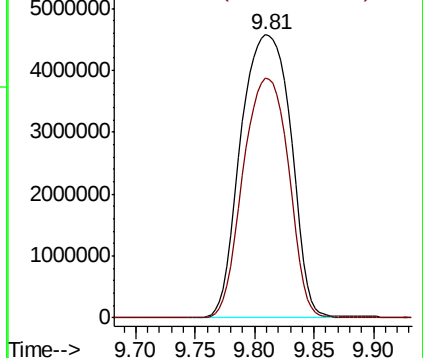
91 100

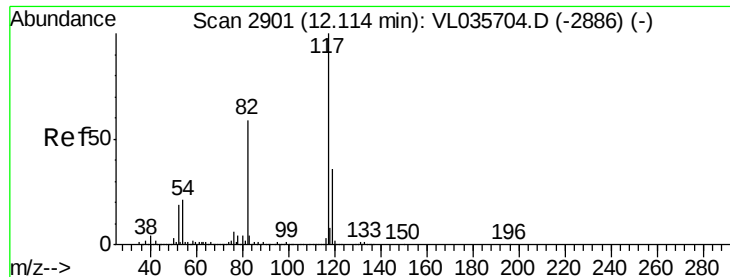
92 77.4 50.0 75.0#



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: 12.10 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

1

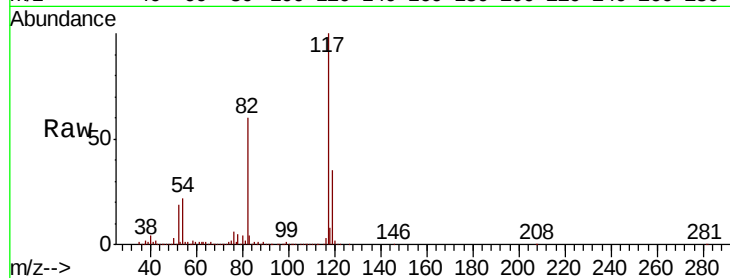
Tot Ion:117 Resp: 4301377

Ion Ratio Lower Upper

117 100

82 58.5 46.1 69.1

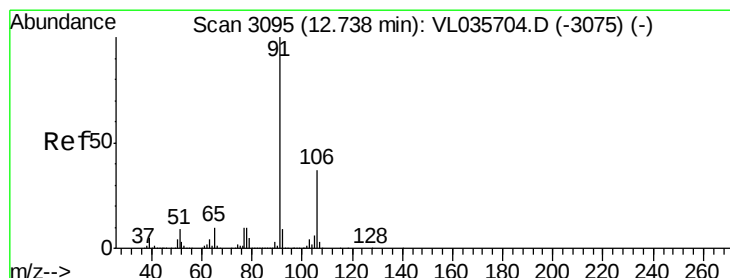
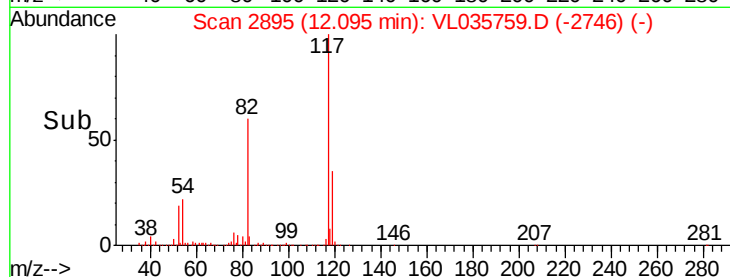
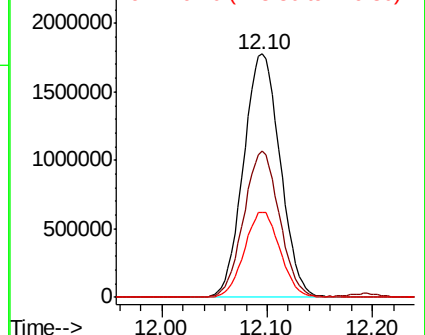
119 34.1 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 7.223 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. -0.02 min

Lab File: VL035759.D

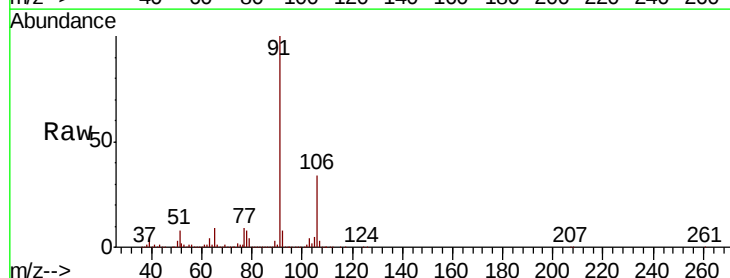
Acq: 12 Oct 2020 13:19

Tgt Ion: 91 Resp: 3118179

Ion Ratio Lower Upper

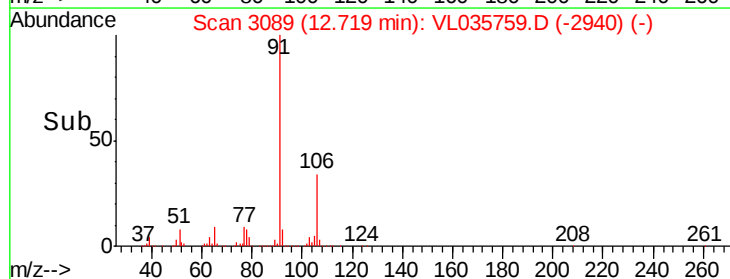
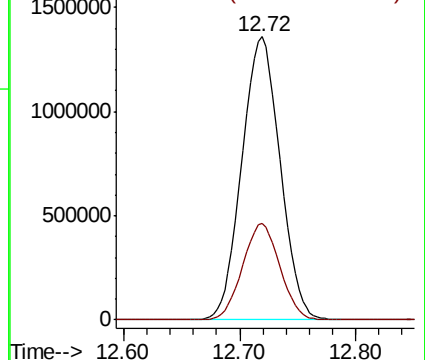
91 100

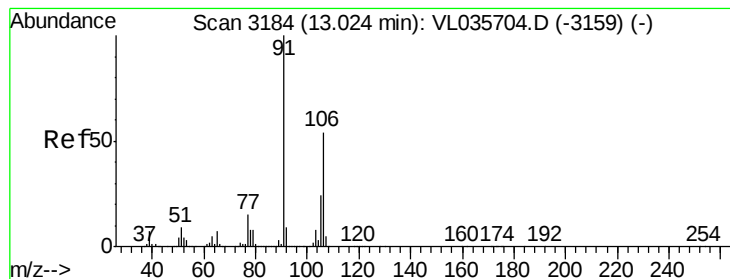
106 34.0 29.7 44.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.193 ppbv

RT: 12.98 min Scan# 3169

Delta R.T. -0.05 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

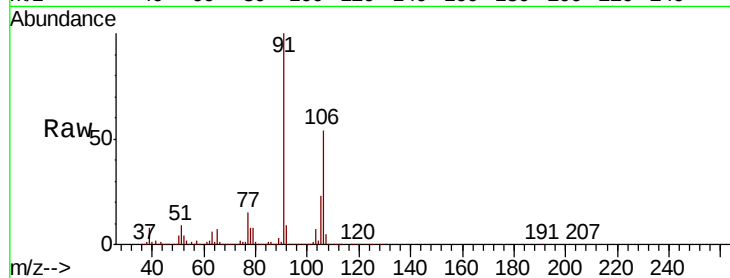
1

Tot Ion: 91 Resp: 7236326

Ion Ratio Lower Upper

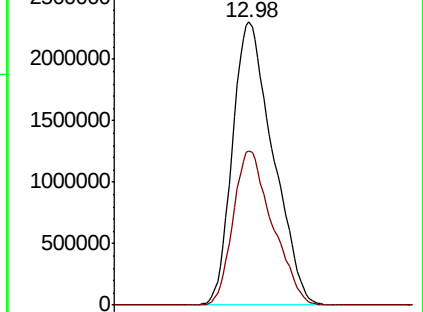
91 100

106 53.0 41.4 62.0

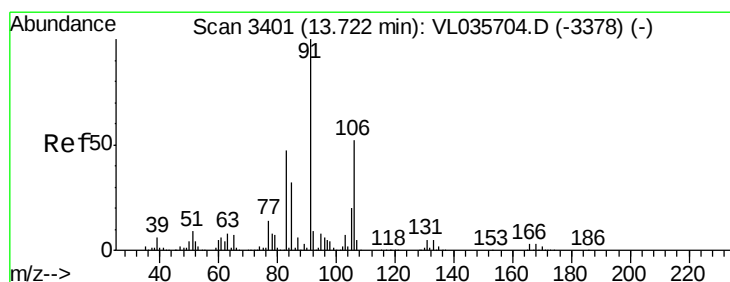
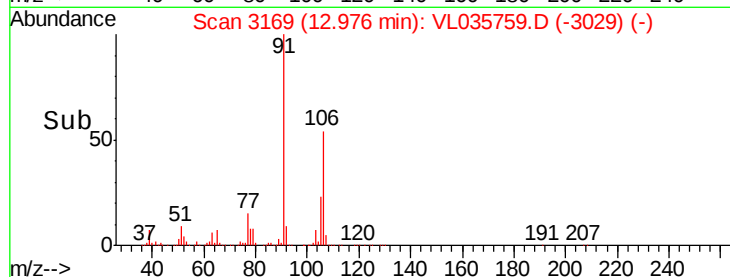


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->



#60

o-Xylene

Concen: 9.295 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. -0.02 min

Lab File: VL035759.D

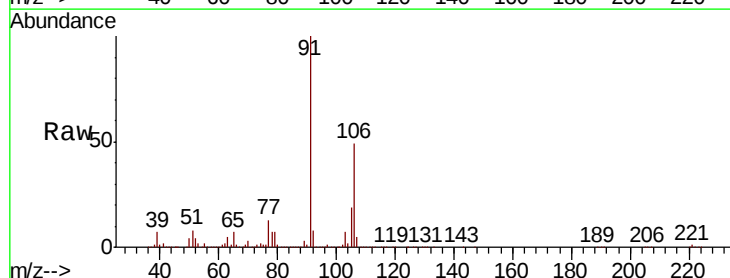
Acq: 12 Oct 2020 13:19

Tgt Ion: 91 Resp: 3544878

Ion Ratio Lower Upper

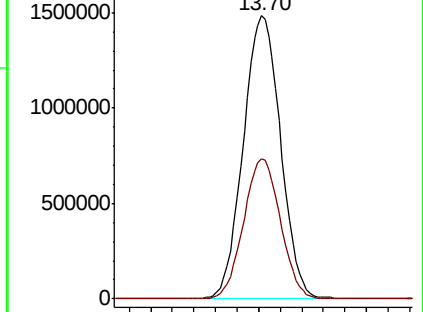
91 100

106 49.2 25.0 75.0

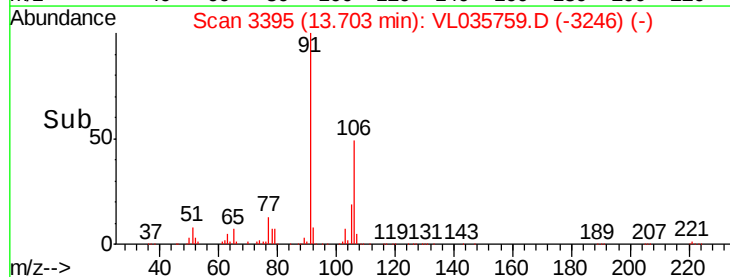


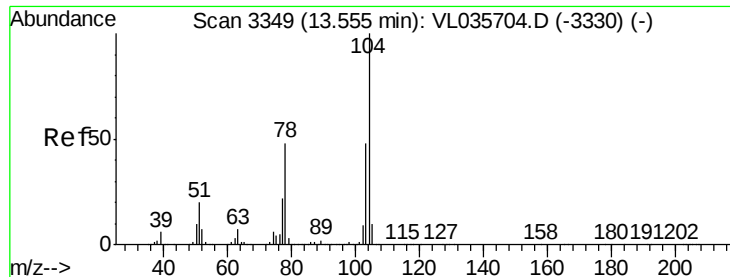
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->





#61

Stvrene

Concen: 3.582 ppbv

RT: 13.54 min Scan# 3345

Delta R.T. -0.01 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampled :

1

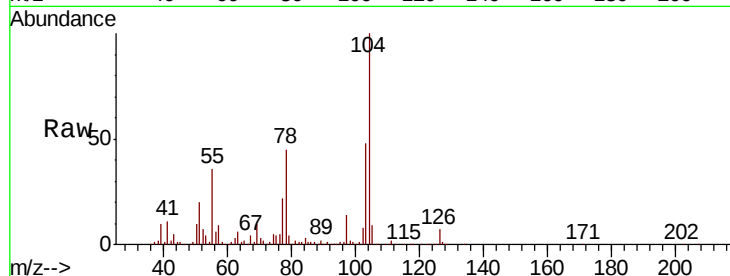
Tot Ion:104 Resp: 944538

Ion Ratio Lower Upper

104 100

78 44.6 37.2 55.8

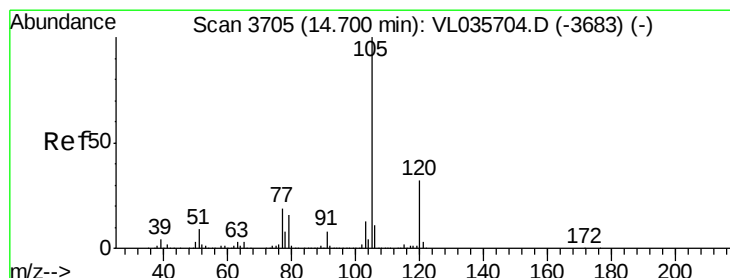
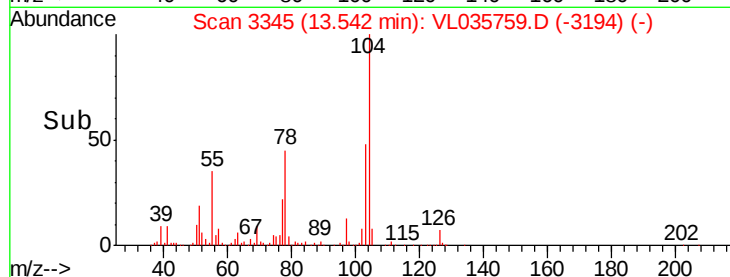
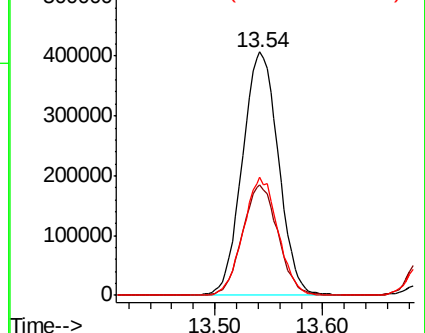
103 46.7 38.2 57.2



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



#62

Isopropylbenzene

Concen: 0.261 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. -0.02 min

Lab File: VL035759.D

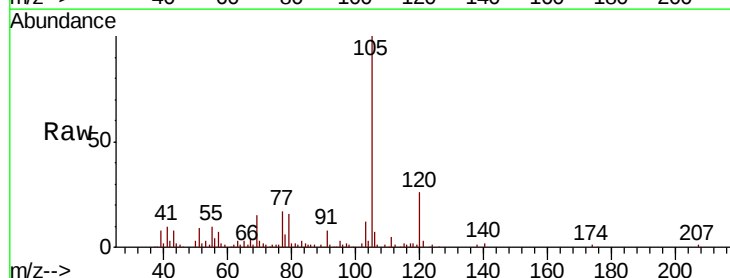
Acq: 12 Oct 2020 13:19

Tgt Ion:105 Resp: 154413

Ion Ratio Lower Upper

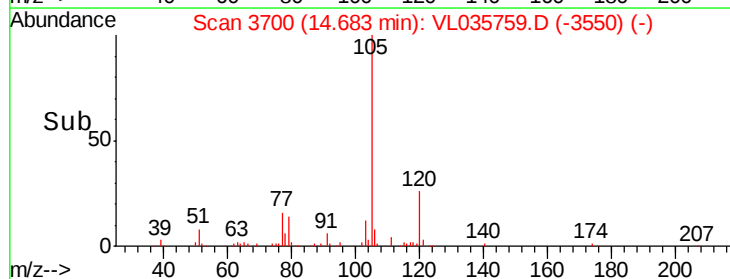
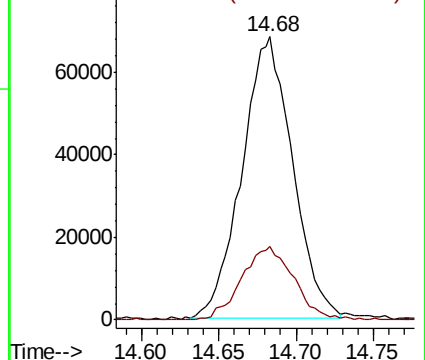
105 100

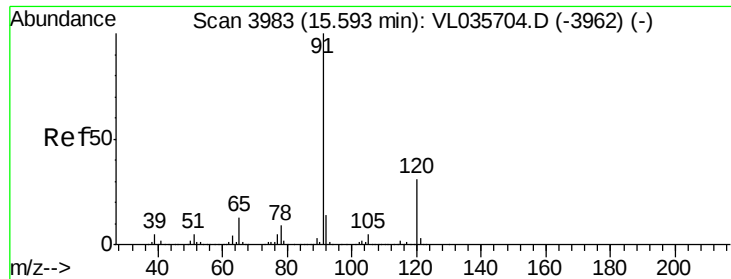
120 27.1 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.513 ppbv

RT: 15.58 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

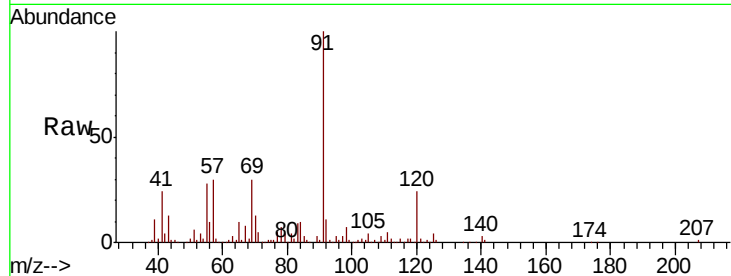
1

Tot Ion:120 Resp: 88862

Ion Ratio Lower Upper

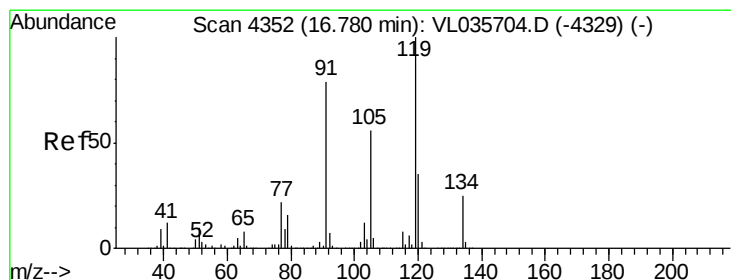
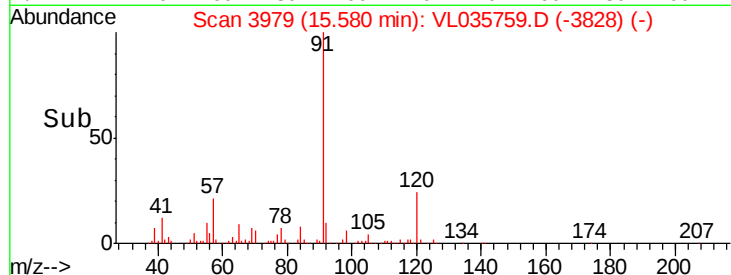
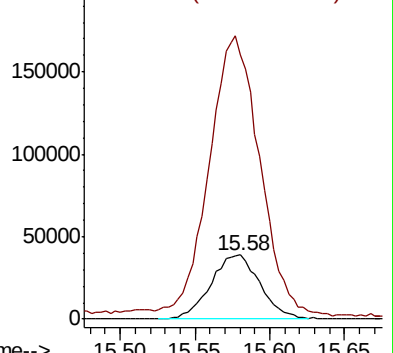
120 100

91 460.9 300.4 450.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.308 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

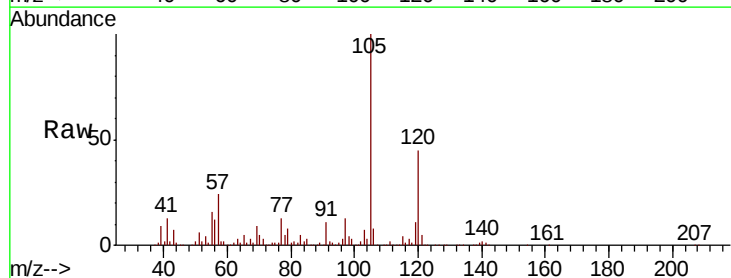
Tgt Ion:119 Resp: 165462

Ion Ratio Lower Upper

119 100

91 95.1 62.4 93.6#

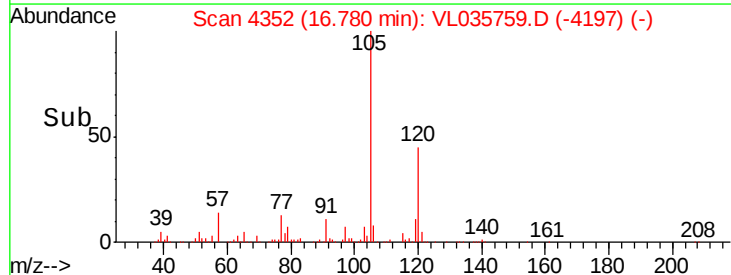
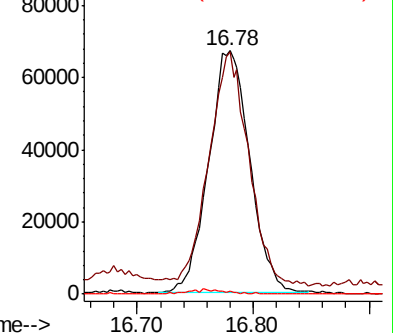
134 2.0 18.2 27.2#

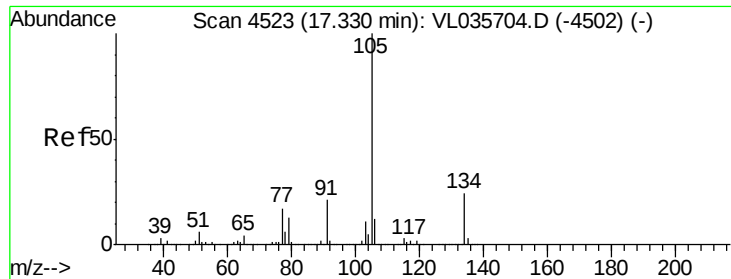


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.116 ppbv

RT: 17.31 min Scan# 4518

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

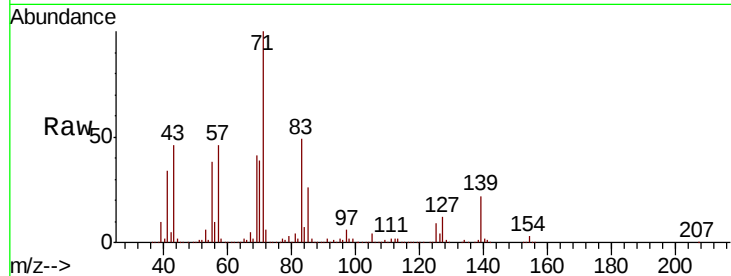
1

Tot Ion:105 Resp: 86209

Ion Ratio Lower Upper

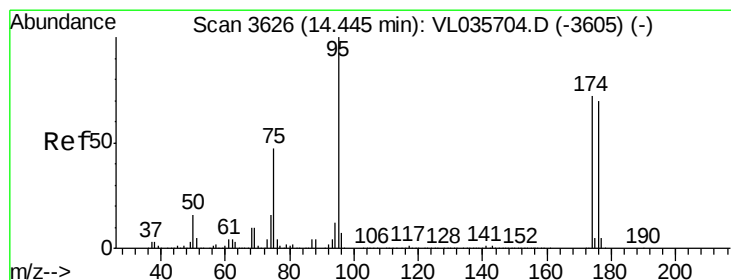
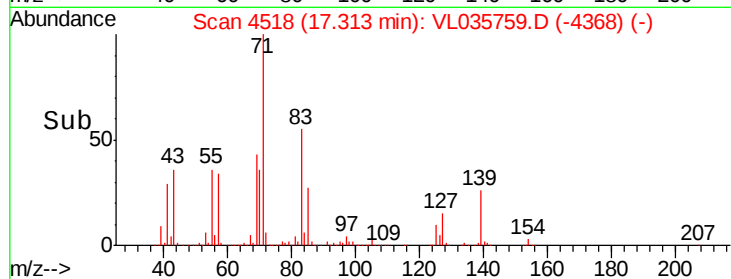
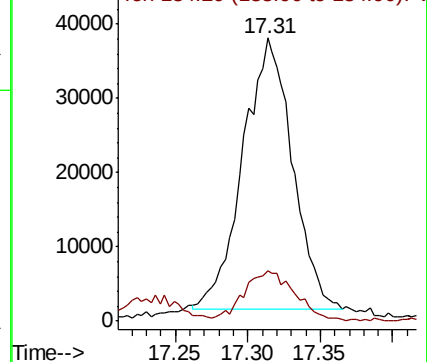
105 100

134 19.6 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: 10.236 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

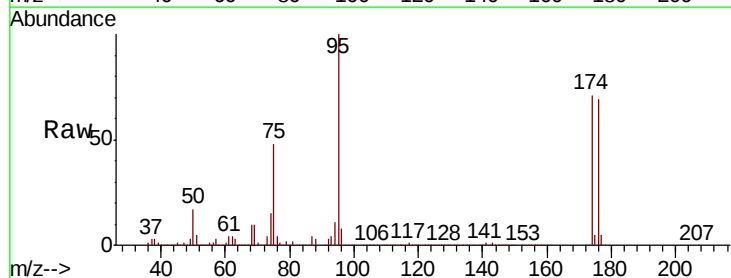
Tgt Ion: 95 Resp: 3299375

Ion Ratio Lower Upper

95 100

174 72.1 59.6 89.4

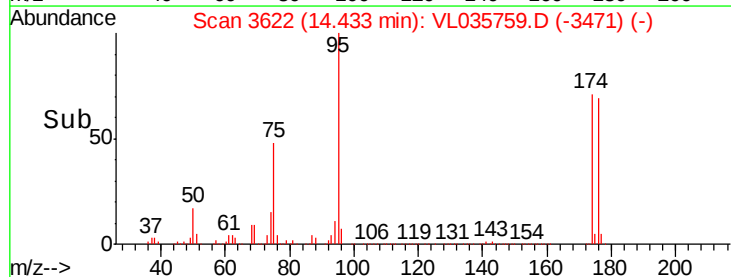
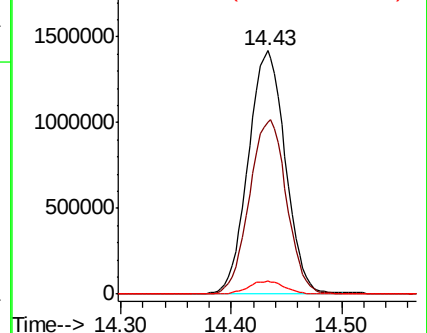
175 5.2 4.2 6.4

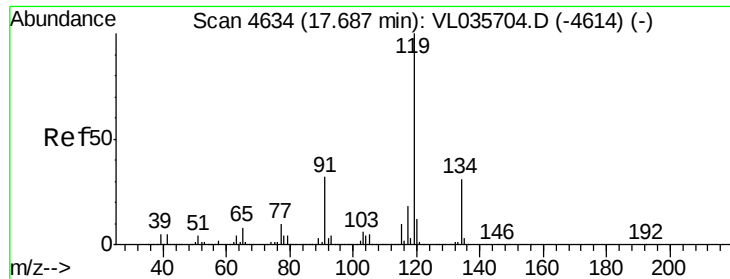


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.111 ppbv

RT: 17.67 min Scan# 4628

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

MSVOA_L

ClientSampleId :

1

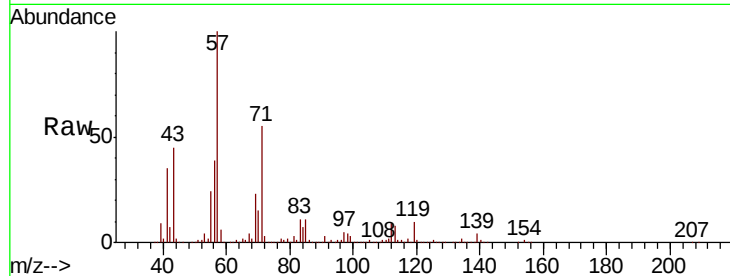
Tot Ion:119 Resp: 66822

Ion Ratio Lower Upper

119 100

134 0.0 23.9 35.9#

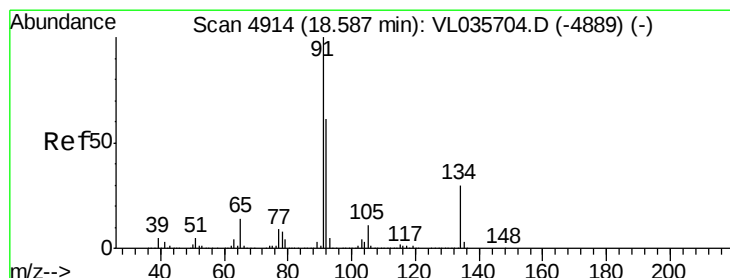
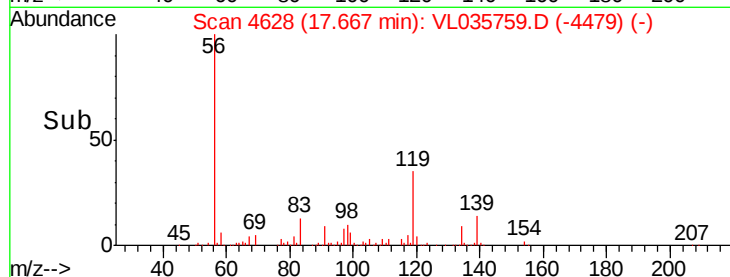
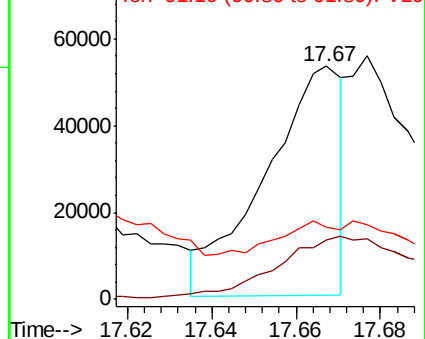
91 0.0 23.8 35.6#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.319 ppbv

RT: 18.59 min Scan# 4915

Delta R.T. 0.00 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

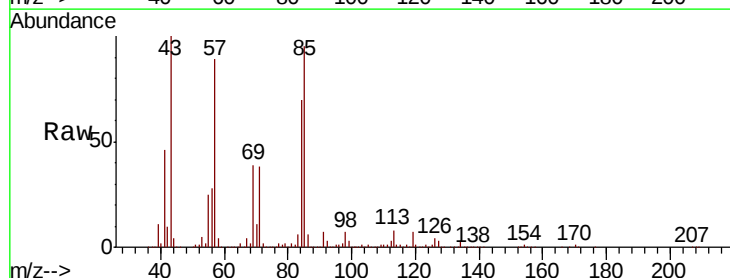
Tgt Ion: 91 Resp: 198257

Ion Ratio Lower Upper

91 100

92 40.4 47.0 70.4#

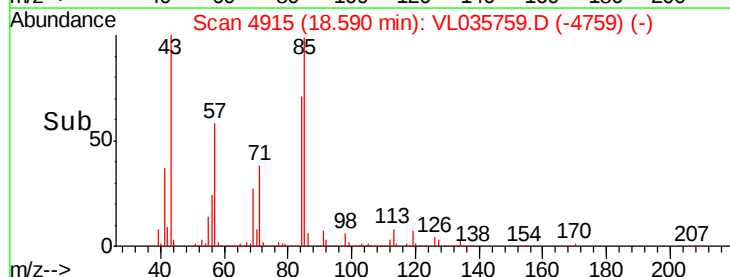
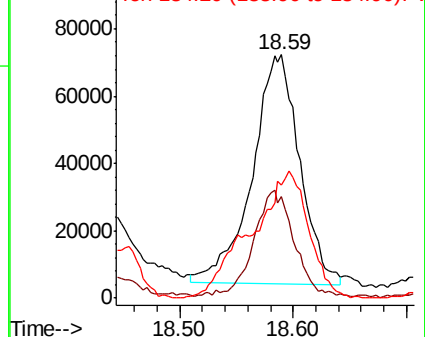
134 67.4 21.9 32.9#

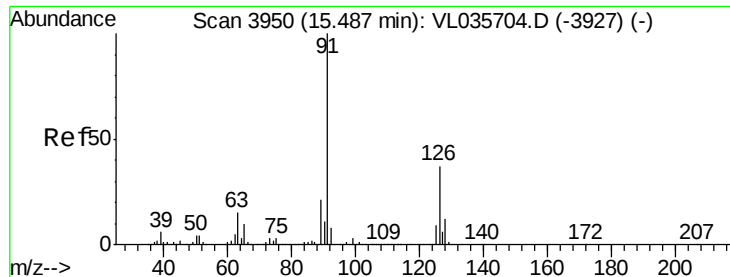


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V

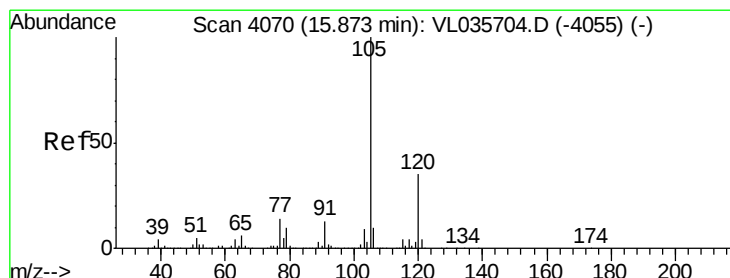
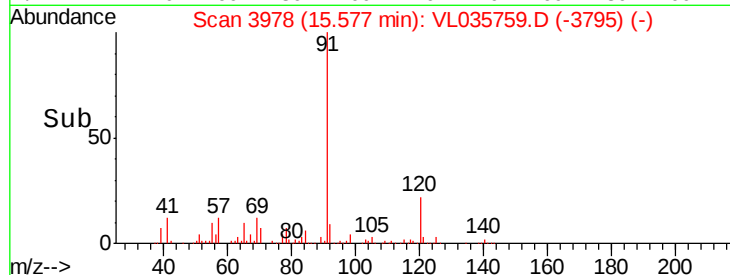
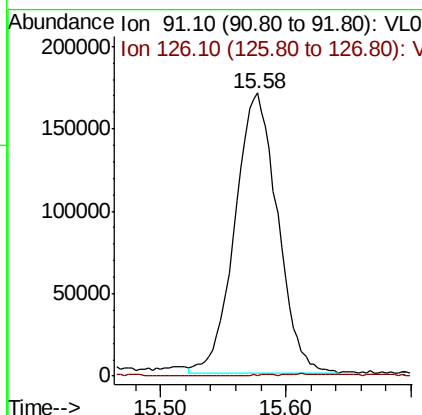
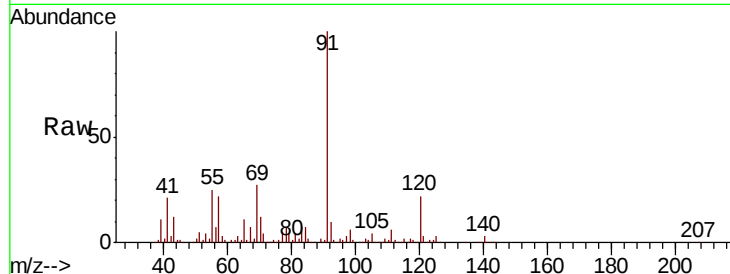




#71
 2-Chlorotoluene
 Concen: 0.929 ppbv
 RT: 15.58 min Scan# 3978
 Delta R.T. 0.09 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

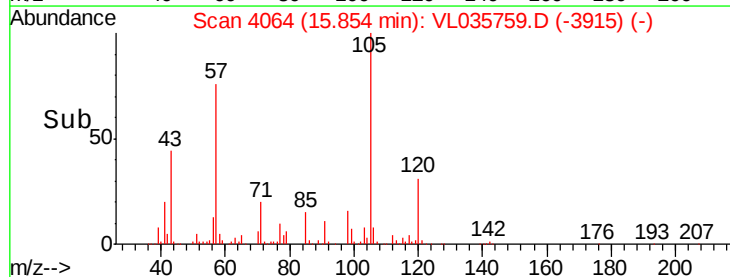
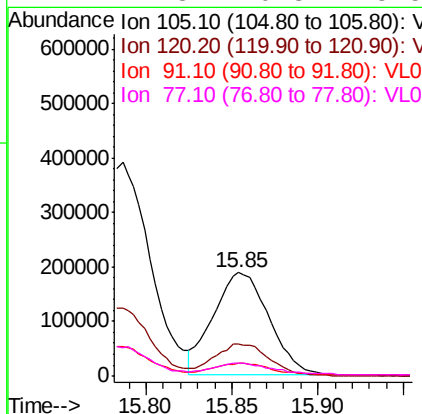
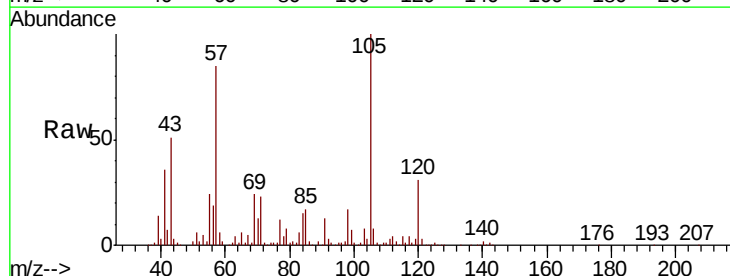
Instrument :
 MSVOA_L
 ClientSampled :
 1

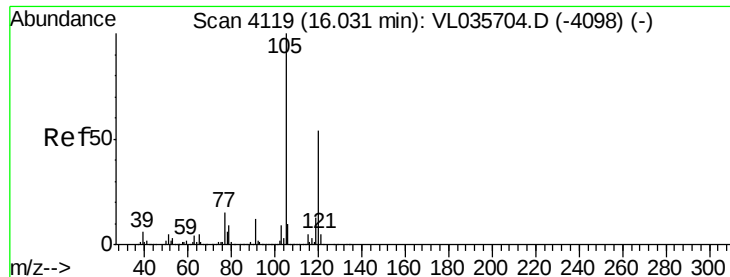
Tot Ion: 91 Resp: 400727
 Ion Ratio Lower Upper
 91 100
 126 0.9 14.4 57.4#



#72
 4-Ethyltoluene
 Concen: 0.938 ppbv
 RT: 15.85 min Scan# 4064
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Tgt Ion: 105 Resp: 423905
 Ion Ratio Lower Upper
 105 100
 120 32.3 26.5 39.7
 91 13.2 10.2 15.2
 77 12.3 10.3 15.5

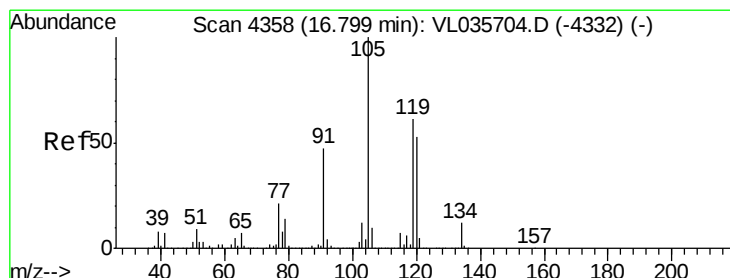
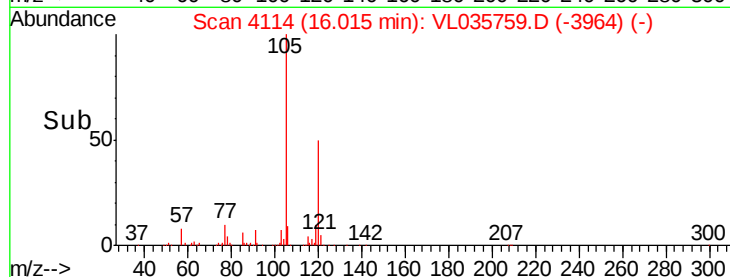
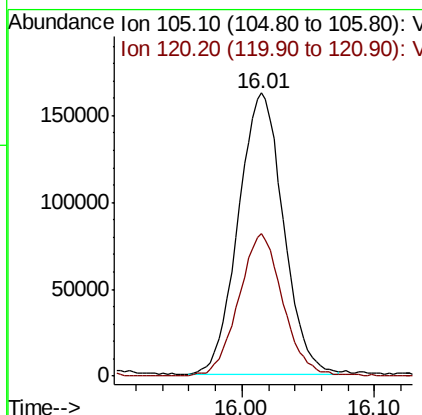
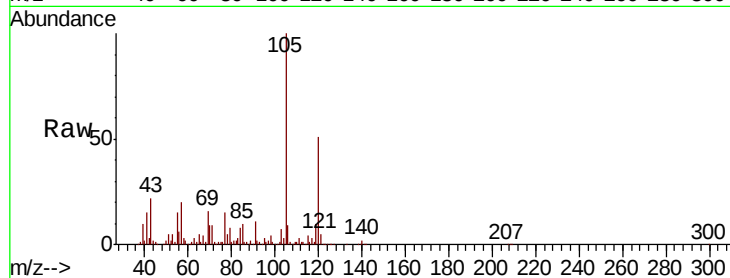




#73
 1,3,5-Trimethylbenzene
 Concen: 0.893 ppbv
 RT: 16.01 min Scan# 4114
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

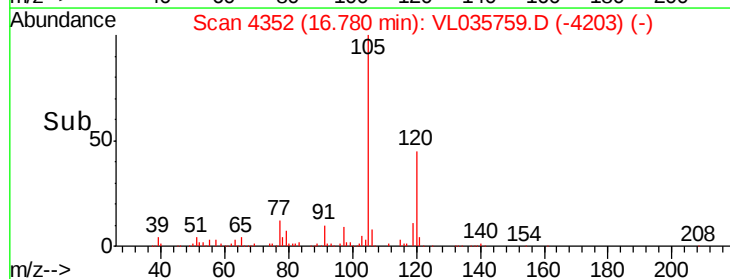
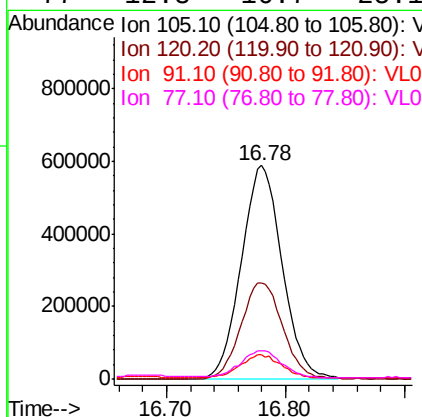
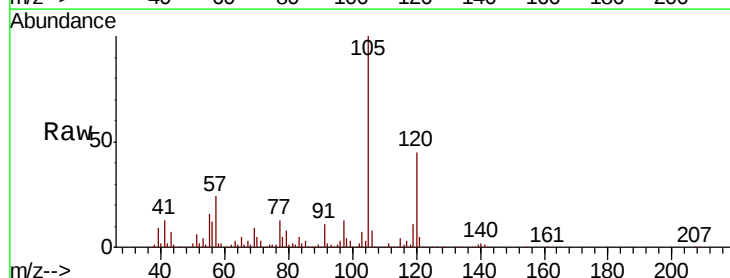
Instrument :
 MSVOA_L
 ClientSampleId :
 1

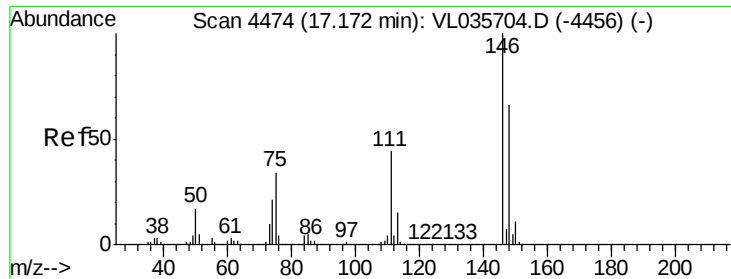
Tot Ion:105 Resp: 381207
 Ion Ratio Lower Upper
 105 100
 120 50.6 43.0 64.4



#74
 1,2,4-Trimethylbenzene
 Concen: 2.896 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.02 min
 Lab File: VL035759.D
 Acq: 12 Oct 2020 13:19

Tgt Ion:105 Resp: 1393909
 Ion Ratio Lower Upper
 105 100
 120 45.0 42.5 63.7
 91 10.9 37.7 56.5#
 77 12.8 16.7 25.1#





#76

1,4-Dichlorobenzene

Concen: 0.049 ppbv

RT: 17.16 min Scan# 4469

Delta R.T. -0.02 min

Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Instrument :

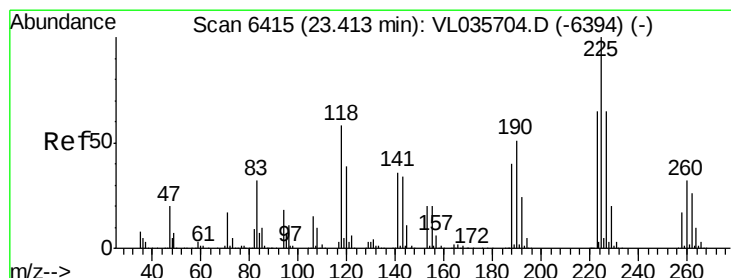
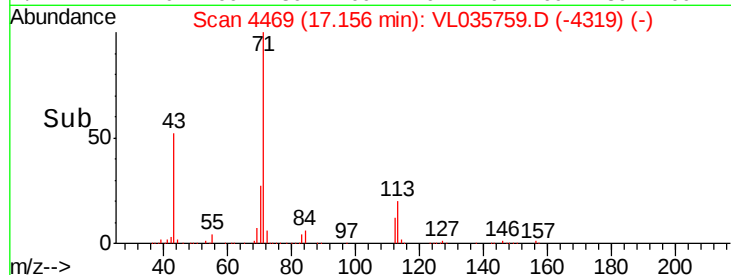
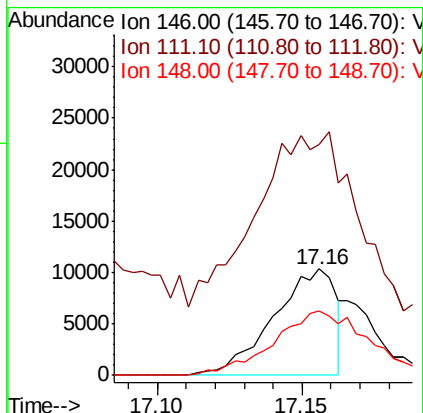
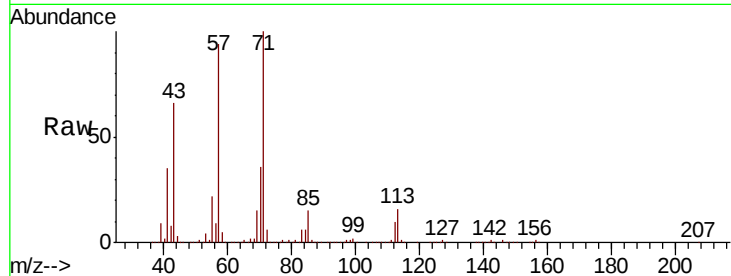
MSVOA_L

ClientSampled :

1

Tot Ion:146 Resp: 15359

Ion	Ratio	Lower	Upper
146	100		
111	329.8	21.4	64.3#
148	95.1	32.6	98.0



#78

Hexachloro-1,3-Butadiene

Concen: 0.069 ppbv

RT: 23.39 min Scan# 6409

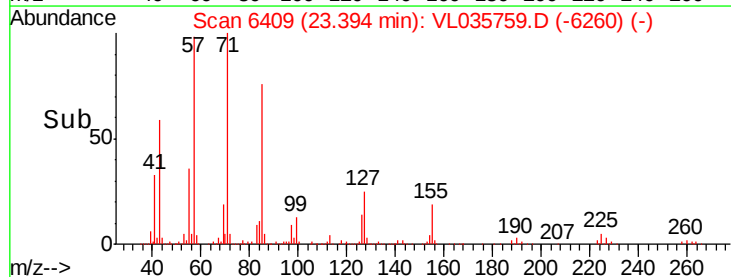
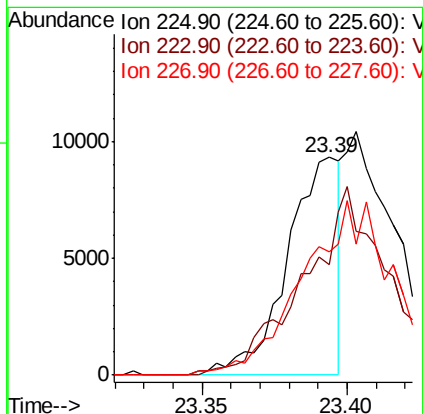
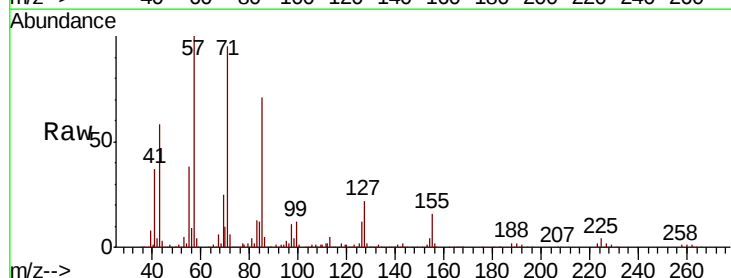
Delta R.T. -0.02 min

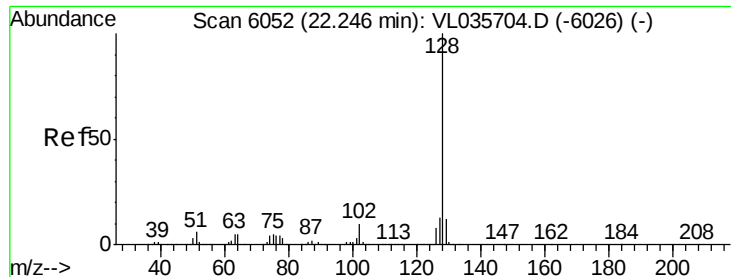
Lab File: VL035759.D

Acq: 12 Oct 2020 13:19

Tgt Ion:225 Resp: 11749

Ion	Ratio	Lower	Upper
225	100		
223	0.0	51.3	76.9#
227	0.0	51.6	77.4#

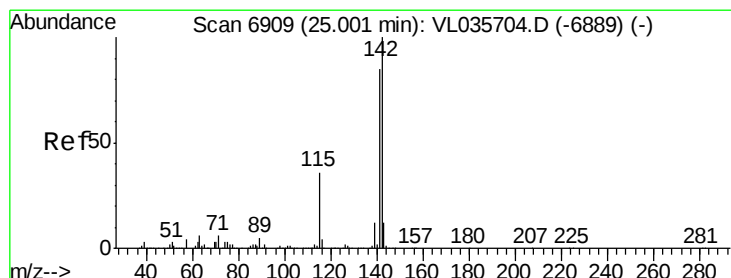
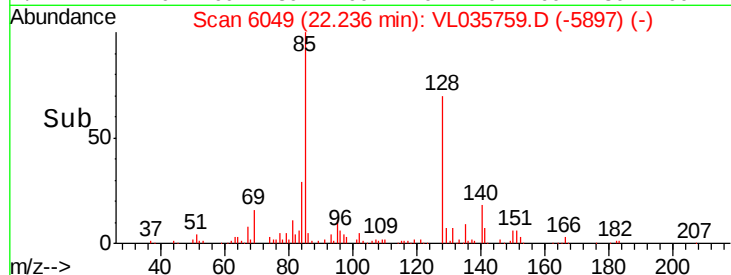
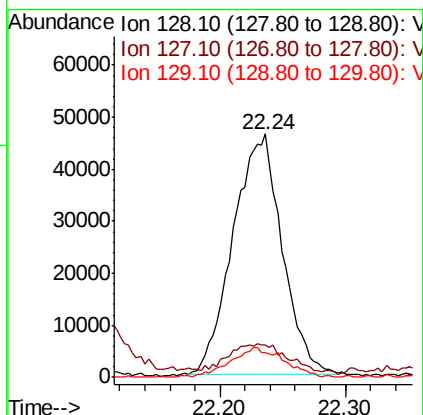
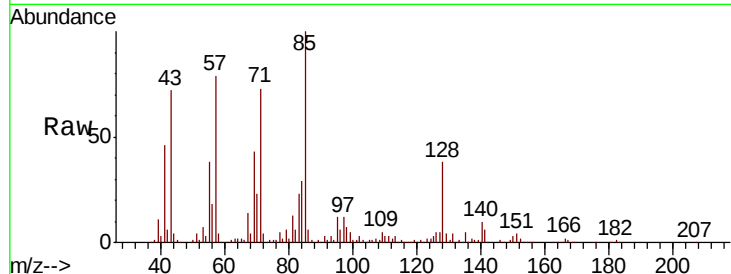




#79
Naphthalene
Concen: 0.275 ppbv
RT: 22.24 min Scan# 6049
Delta R.T. -0.01 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

Instrument :
MSVOA_L
ClientSampled :
1

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.6	15.8
129	10.1	9.4	14.0



#80
Naphthalene, 2-methyl-
Concen: 0.231 ppbv
RT: 24.99 min Scan# 6905
Delta R.T. -0.01 min
Lab File: VL035759.D
Acq: 12 Oct 2020 13:19

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.7	68.2	102.4
115	45.8	27.8	41.6#

