

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036871.D
 Acq On : 27 Apr 2021 23:52
 Operator : SY/AP
 Sample : M2172-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :

Quant Time: Apr 28 05:28:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1541173	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3785770	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3529227	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2714144	9.58	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	38986	0.161	ppbv 100
3) Chlorodifluoromethane	2.99	51	179732	0.640	ppbv 98
4) Chloromethane	3.14	50	54907	0.595	ppbv # 76
5) Vinyl Chloride	3.26	62	11803	0.127	ppbv 95
7) Chloroethane	3.56	64	1960	0.064	ppbv 99
9) Propene	3.02	41	91397	1.068	ppbv 87
10) Heptane	8.14	43	26963	0.125	ppbv # 29
11) Trichlorofluoromethane	3.96	101	26750	0.123	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.48	101	7870	0.054	ppbv # 11
13) Ethanol	3.65	45	22565387	2068.471	ppbv 98
15) Acetone	3.85	43	13829733	95.208	ppbv 95
16) 1,3-Butadiene	3.30	39	195040	2.100	ppbv # 19
17) tert-Butyl alcohol	4.34	59	1803328	15.295	ppbv 98
18) 1,1-Dichloroethene	4.29	96	3025	0.048	ppbv 96
19) Isopropyl Alcohol	4.02	45	18496048	256.986	ppbv # 92
20) Methylene Chloride	4.35	84	136658	1.967	ppbv 95
21) Allyl Chloride	4.34	41	264192	2.448	ppbv # 72
23) Vinyl Acetate	5.07	43	1996274	10.103	ppbv # 90
24) 1,1-Dichloroethane	5.02	63	8422	0.060	ppbv # 90
25) Ethyl Acetate	5.68	43	576369	1.624	ppbv # 92
26) Hexane	5.69	57	264931	1.596	ppbv 91
28) Methyl tert-Butyl Ether	5.04	73	12615	0.086	ppbv # 52
29) Chloroform	5.76	83	761086	2.941	ppbv 98
30) Cyclohexane	7.13	84	75626	0.574	ppbv # 80
31) cis-1,2-Dichloroethene	5.56	61	507591	3.406	ppbv 98
32) 1,1,1-Trichloroethane	6.53	97	21391	0.081	ppbv # 1
34) 2-Butanone	5.25	43	2343458	14.131	ppbv 100
35) Carbon Tetrachloride	7.02	117	257173	1.001	ppbv 97
36) Benzene	6.90	78	230795	0.724	ppbv 95
38) Trichloroethene	7.84	130	44019	0.388	ppbv 94
39) 1,2-Dichloropropane	7.19	63	972127	7.607	ppbv # 23
41) Tetrahydrofuran	6.06	42	18776	0.259	ppbv # 57
44) 2,2,4-Trimethylpentane	7.88	57	152298	0.279	ppbv # 41
50) 4-Methyl-2-Pentanone	8.76	43	308683	1.362	ppbv 98
51) 2-Hexanone	10.14	43	36993	0.327	ppbv # 63
52) Tetrachloroethene	11.23	164	123408	1.136	ppbv 98
53) Toluene	9.81	91	960275	2.877	ppbv 99
58) Ethyl Benzene	12.72	91	290325	0.649	ppbv 95
59) m/p-Xylene	12.98	91	874866	2.187	ppbv 96
60) o-Xylene	13.70	91	425868	1.101	ppbv 98
61) Styrene	13.54	104	6779	0.037	ppbv # 1

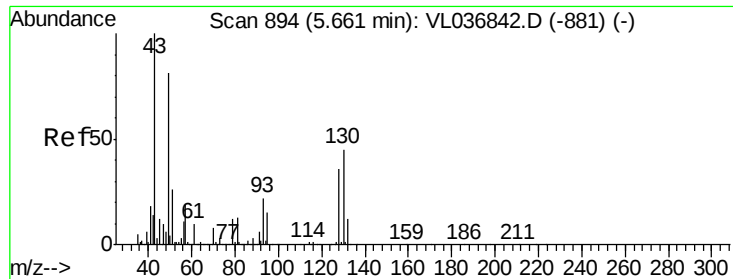
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036871.D
 Acq On : 27 Apr 2021 23:52
 Operator : SY/AP
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Quant Time: Apr 28 05:28:15 2021
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.68	105	16858	0.032	ppbv #	50
64) n-propylbenzene	15.58	120	11862	0.090	ppbv #	1
65) tert-Butylbenzene	16.77	119	76697	0.165	ppbv #	61
66) Benzyl Chloride	17.00	91	18823	0.414	ppbv #	52
69) p-Isopropyltoluene	17.67	119	20789	0.040	ppbv #	53
70) n-Butylbenzene	18.57	91	35072	0.067	ppbv #	23
72) 4-Ethyltoluene	15.85	105	83818	0.202	ppbv #	47
73) 1,3,5-Trimethylbenzene	16.01	105	131514	0.327	ppbv	86
74) 1,2,4-Trimethylbenzene	16.77	105	691105	1.616	ppbv #	73
75) 1,3-Dichlorobenzene	17.01	146	1391614	5.504	ppbv #	16
76) 1,4-Dichlorobenzene	17.07	146	46607	0.188	ppbv #	22
79) Naphthalene	22.23	128	23624	0.099	ppbv #	82
81) 1,2,4-Trichlorobenzene	21.51	180	255653	1.650	ppbv #	17

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 27 Apr 2021 23:52

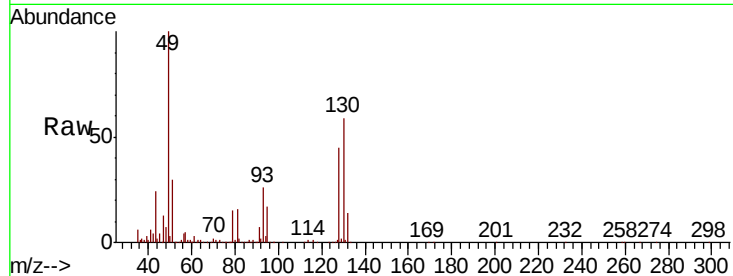
Tot Ion: 49 Resp: 1541173

Ion Ratio Lower Upper

49 100

128 47.3 24.4 73.2

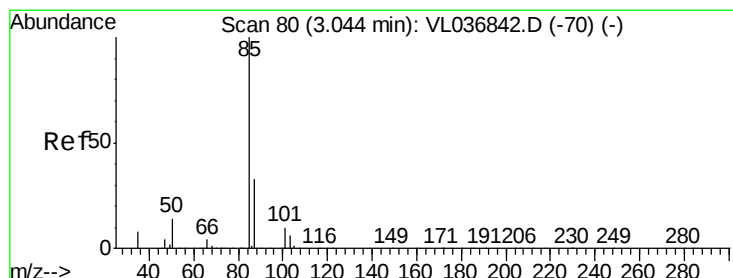
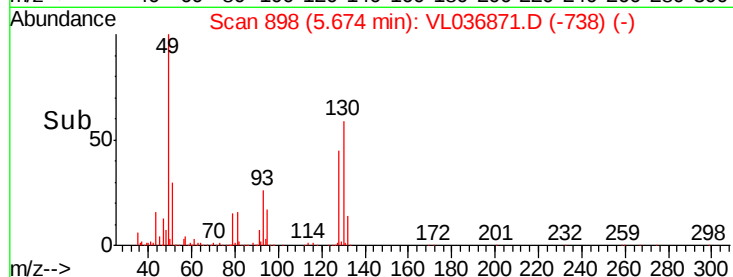
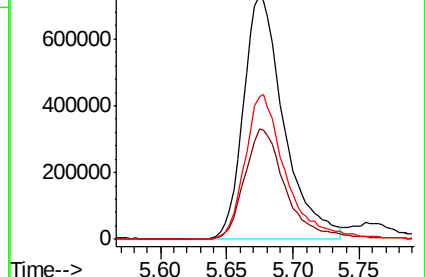
130 60.8 30.3 90.8



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: 0.161 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036871.D

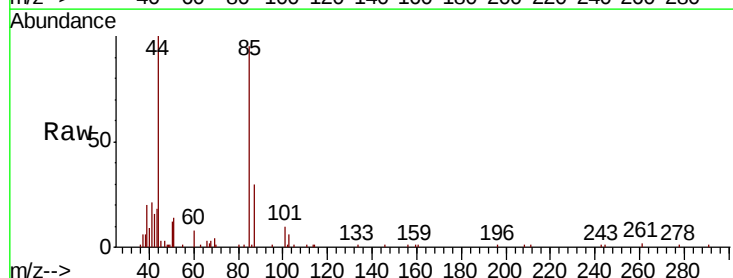
Acq: 27 Apr 2021 23:52

Tgt Ion: 85 Resp: 38986

Ion Ratio Lower Upper

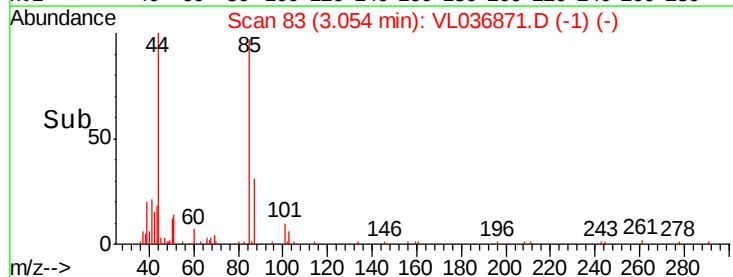
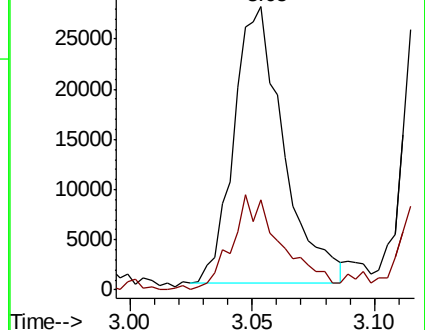
85 100

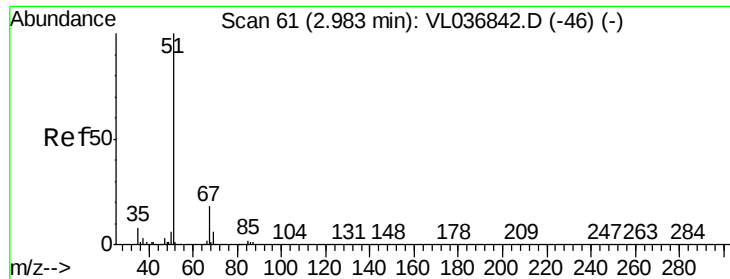
87 32.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.640 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

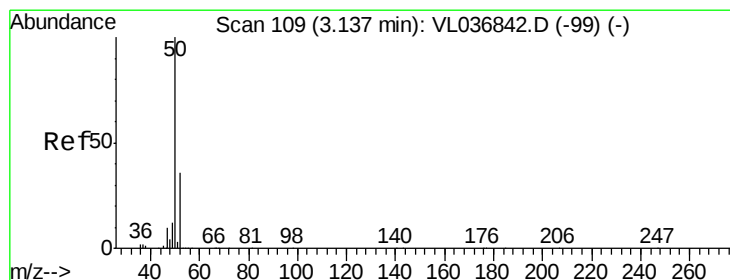
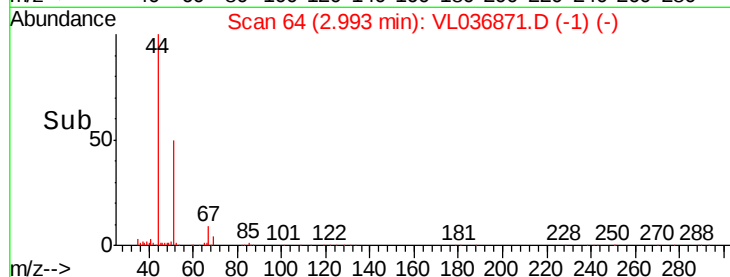
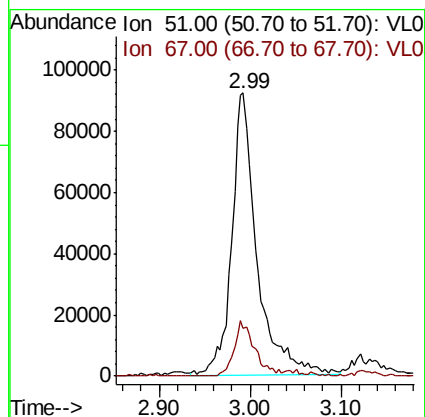
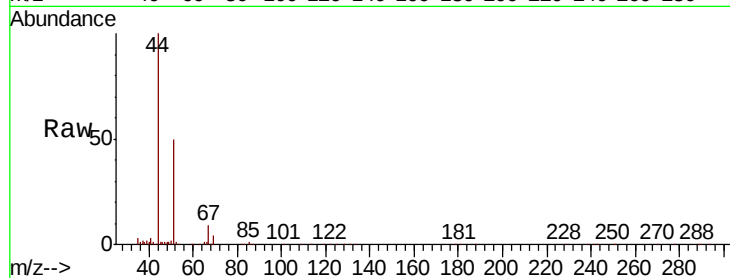
Acq: 27 Apr 2021 23:52

Tot Ion: 51 Resp: 179732

Ion Ratio Lower Upper

51 100

67 17.5 14.8 22.2



#4

Chloromethane

Concen: 0.595 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL036871.D

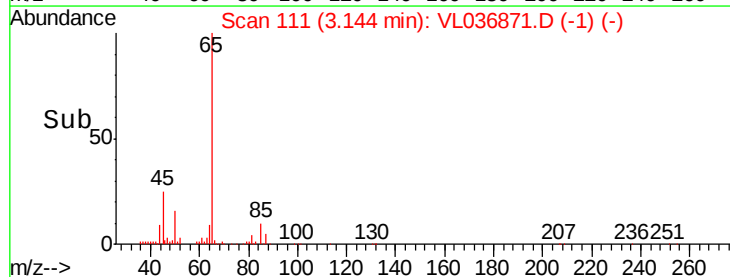
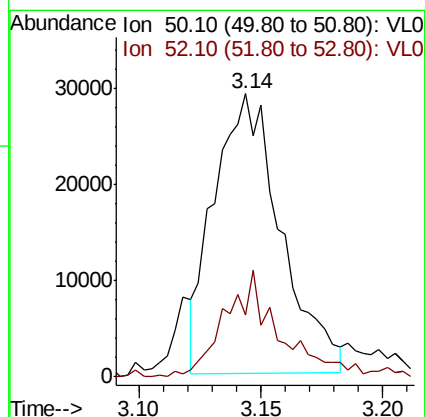
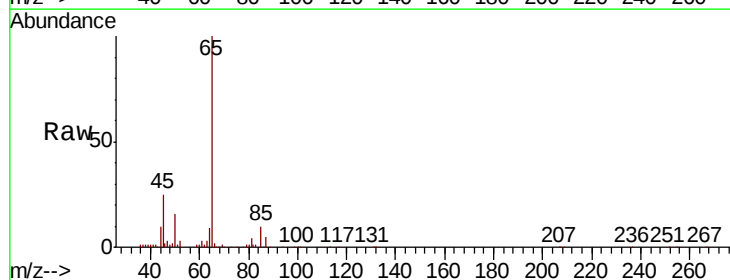
Acq: 27 Apr 2021 23:52

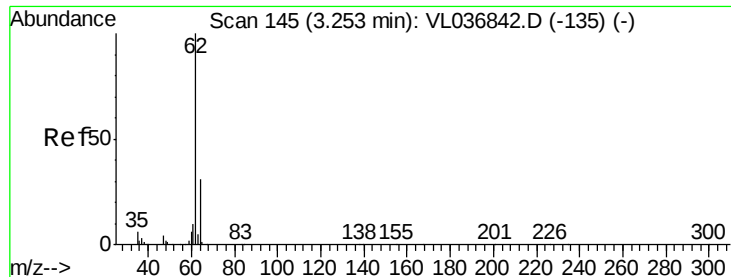
Tgt Ion: 50 Resp: 54907

Ion Ratio Lower Upper

50 100

52 21.8 28.5 42.7#





#5

Vinyl Chloride

Concen: 0.127 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

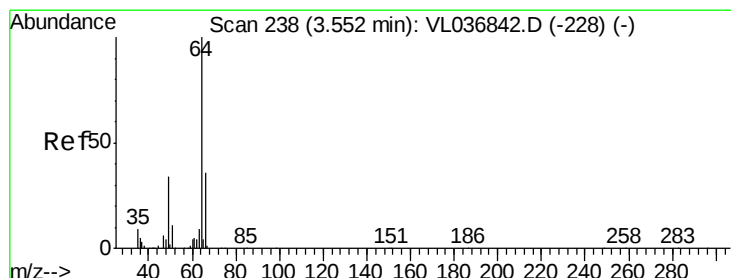
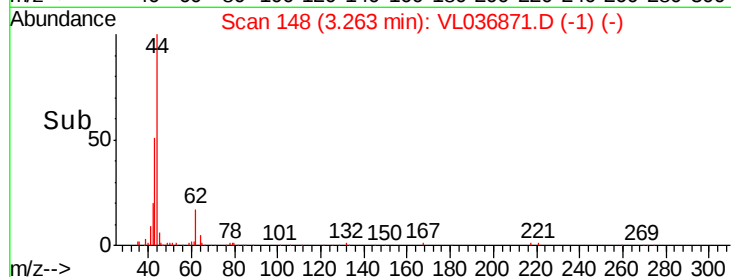
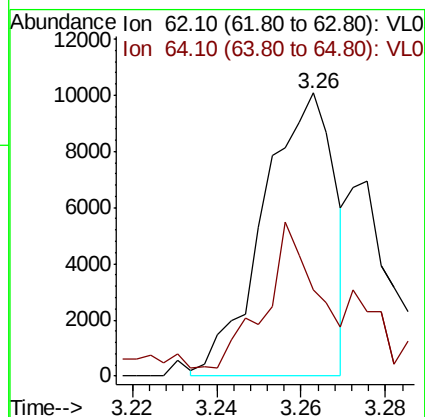
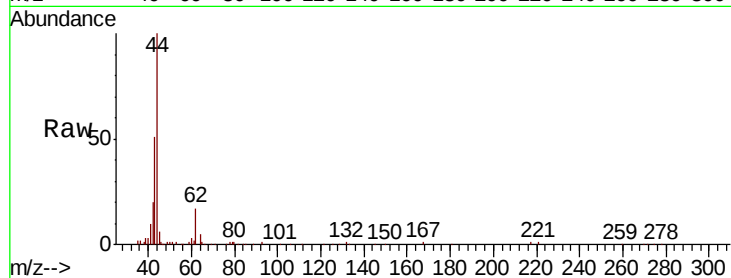
Acq: 27 Apr 2021 23:52

Tot Ion: 62 Resp: 11803

Ion Ratio Lower Upper

62 100

64 34.1 25.0 37.4



#7

Chloroethane

Concen: 0.064 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL036871.D

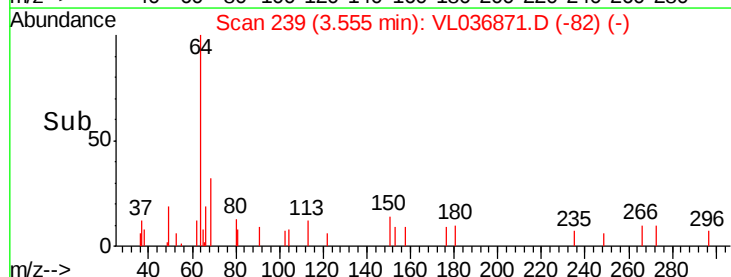
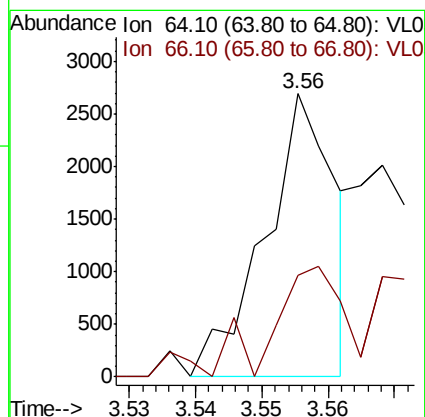
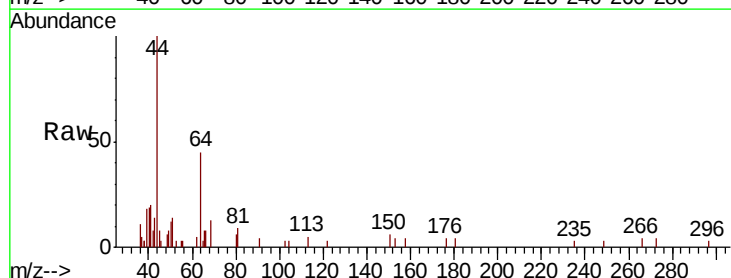
Acq: 27 Apr 2021 23:52

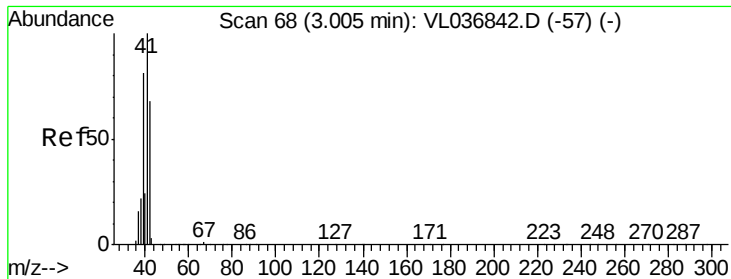
Tgt Ion: 64 Resp: 1960

Ion Ratio Lower Upper

64 100

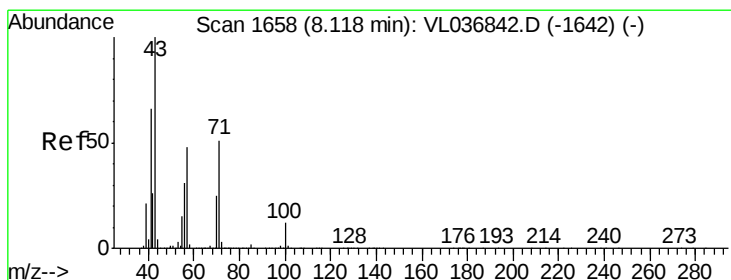
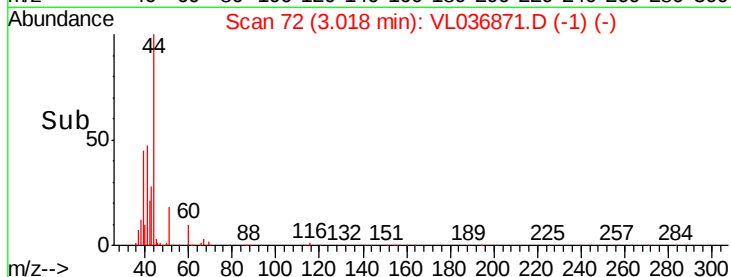
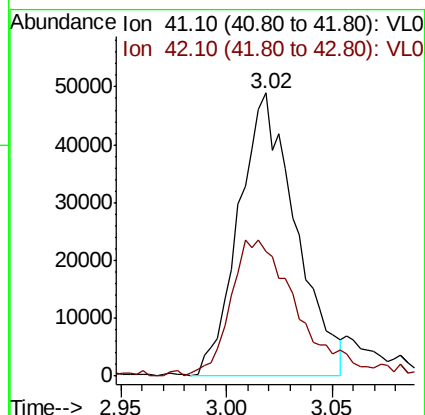
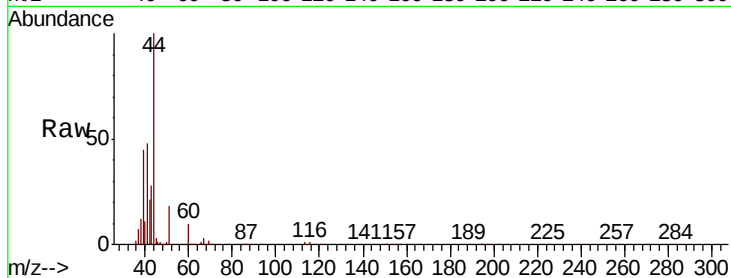
66 35.8 29.0 43.6





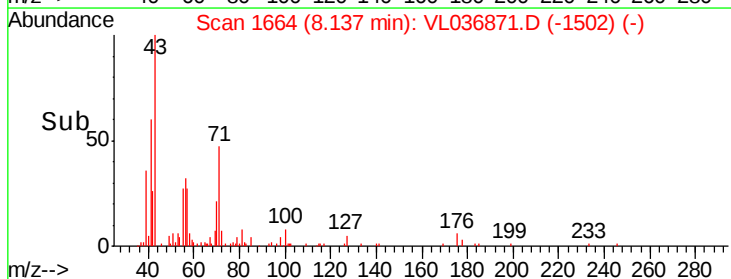
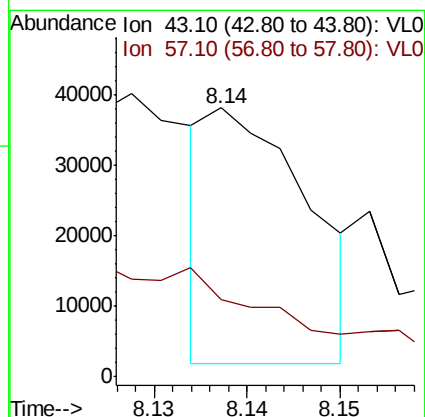
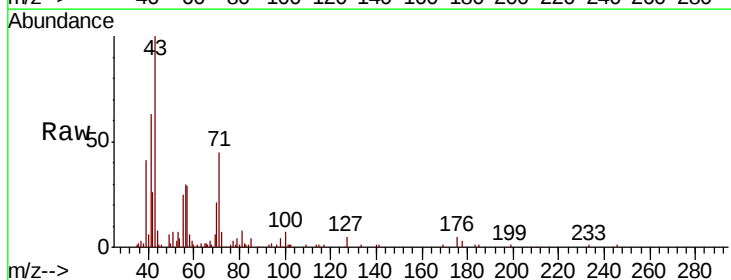
#9
 Propene
 Concen: 1.068 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 23:52

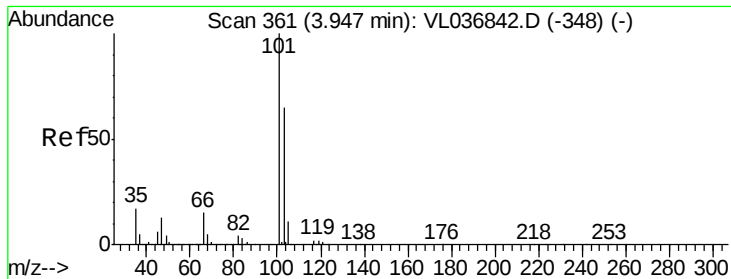
Tot Ion: 41 Resp: 91397
 Ion Ratio Lower Upper
 41 100
 42 59.4 56.0 84.0



#10
 Heptane
 Concen: 0.125 ppbv
 RT: 8.14 min Scan# 1664
 Delta R.T. 0.02 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

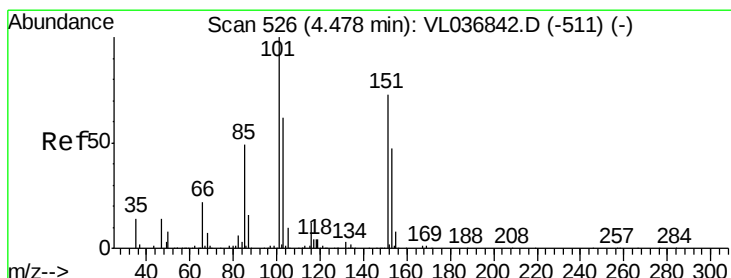
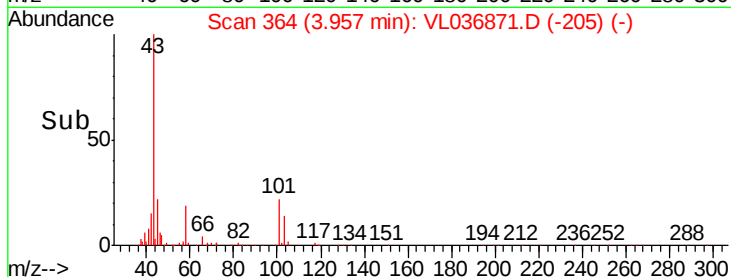
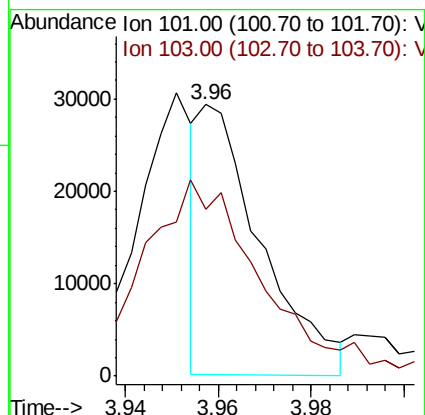
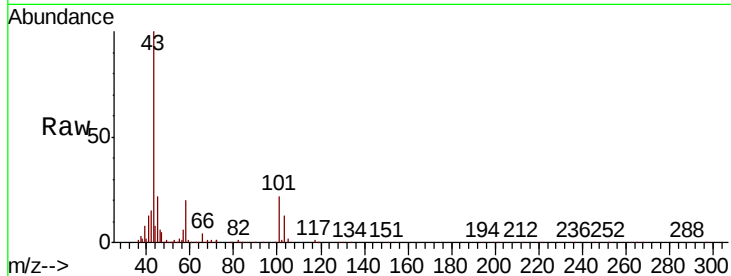
Tgt Ion: 43 Resp: 26963
 Ion Ratio Lower Upper
 43 100
 57 0.0 38.8 58.2#





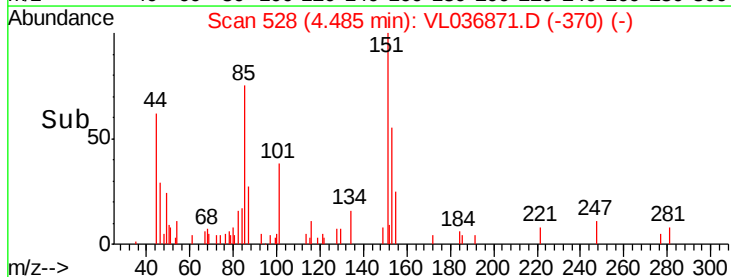
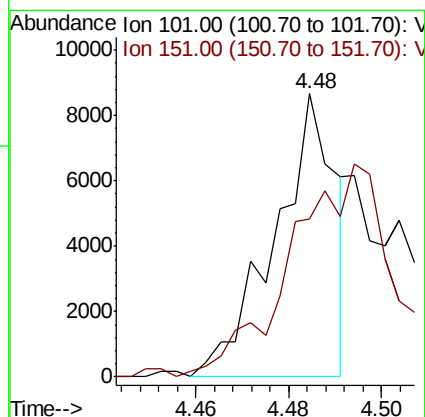
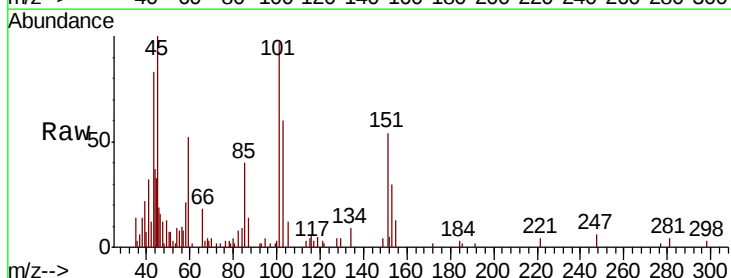
#11
 Trichlorofluoromethane
 Concen: 0.123 ppbv
 RT: 3.96 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 23:52

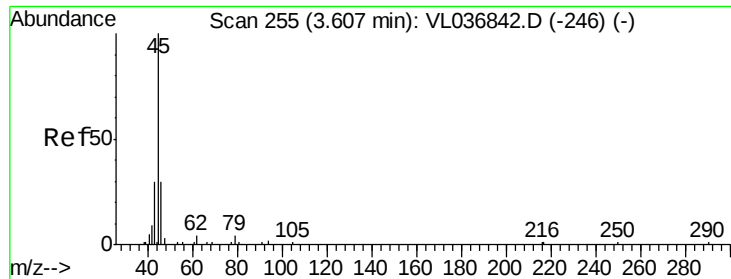
Tot Ion:101 Resp: 26750
 Ion Ratio Lower Upper
 101 100
 103 59.3 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.054 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T.: 0.01 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

Tgt Ion:101 Resp: 7870
 Ion Ratio Lower Upper
 101 100
 151 0.0 61.1 91.7#





#13

Ethanol

Concen: 2068.471 ppbv

RT: 3.65 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

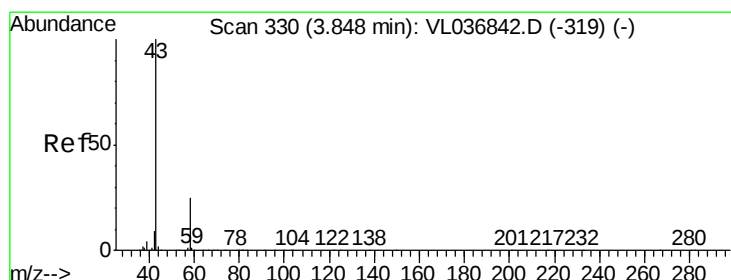
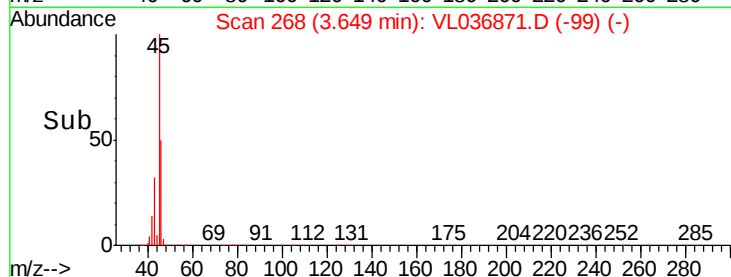
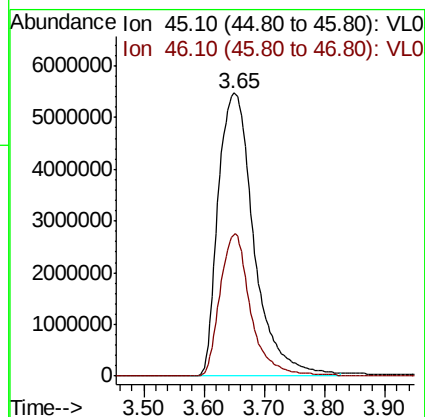
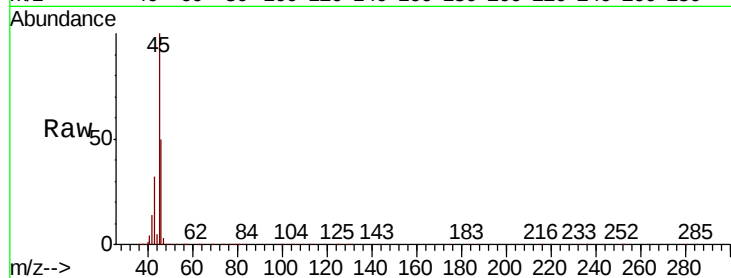
Acq: 27 Apr 2021 23:52

Tot Ion: 45 Resp:22565387

Ion Ratio Lower Upper

45 100

46 43.5 16.8 67.4



#15

Acetone

Concen: 95.208 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL036871.D

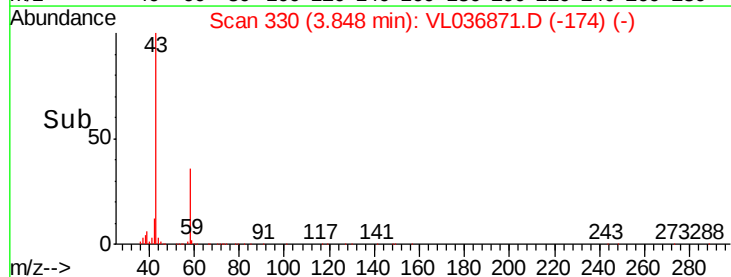
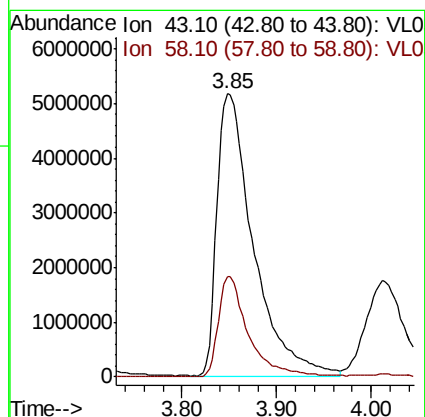
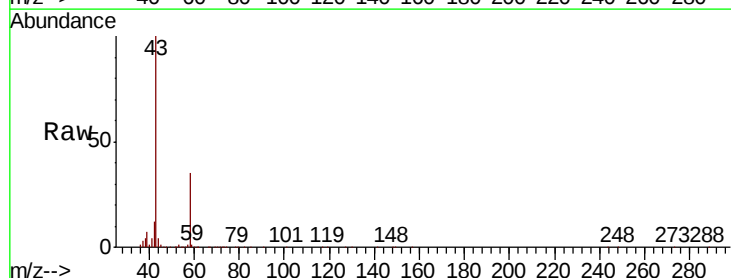
Acq: 27 Apr 2021 23:52

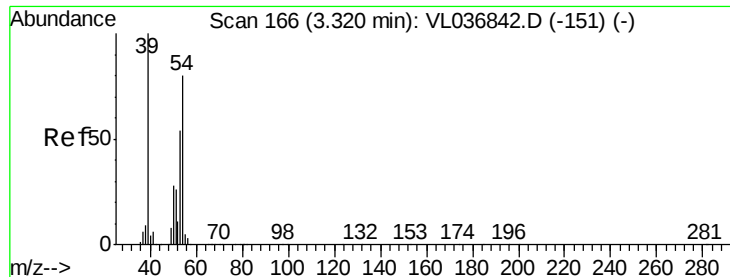
Tgt Ion: 43 Resp:13829733

Ion Ratio Lower Upper

43 100

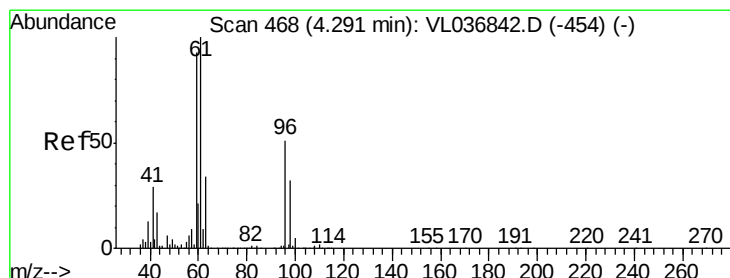
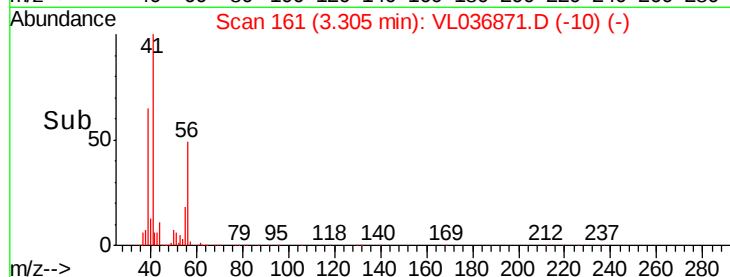
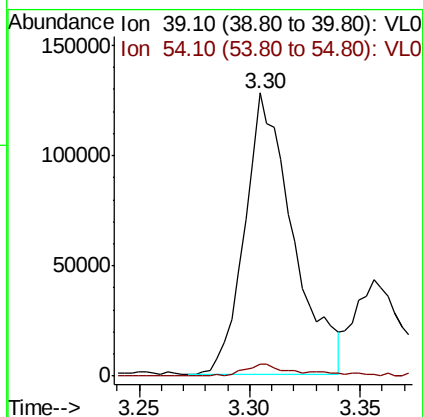
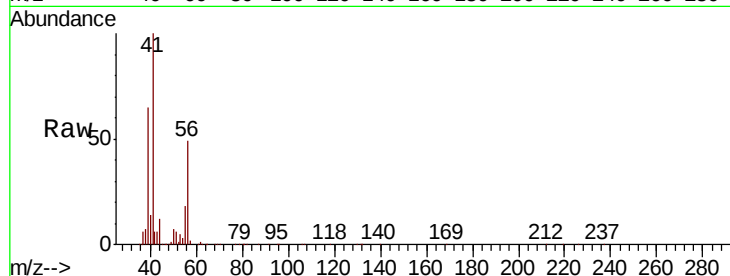
58 29.6 21.7 32.5





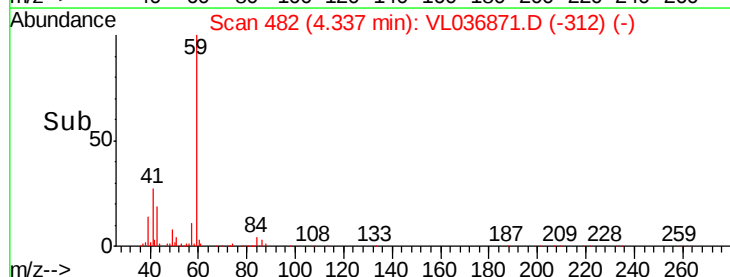
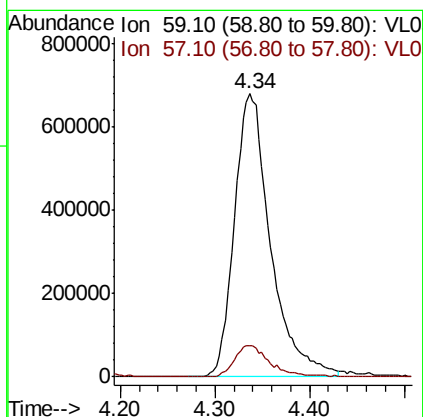
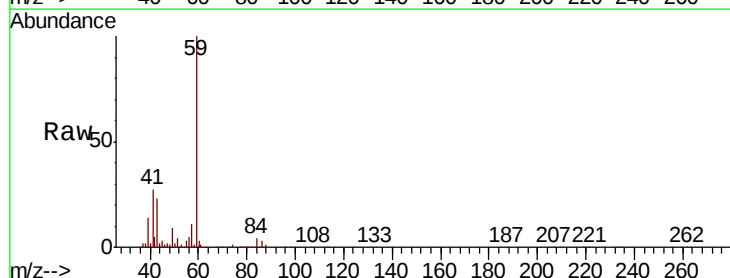
#16
 1,3-Butadiene
 Concen: 2.100 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 23:52

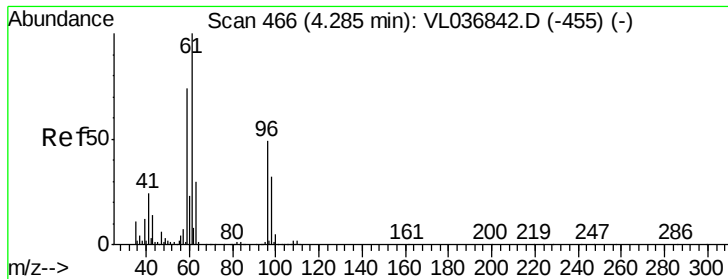
Tot Ion: 39 Resp: 195040
 Ion Ratio Lower Upper
 39 100
 54 5.8 59.6 89.4#



#17
 tert-Butyl alcohol
 Concen: 15.295 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. 0.05 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

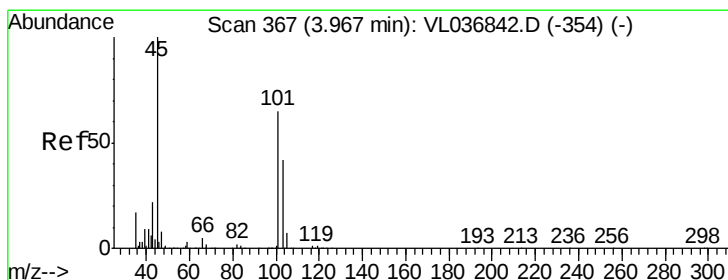
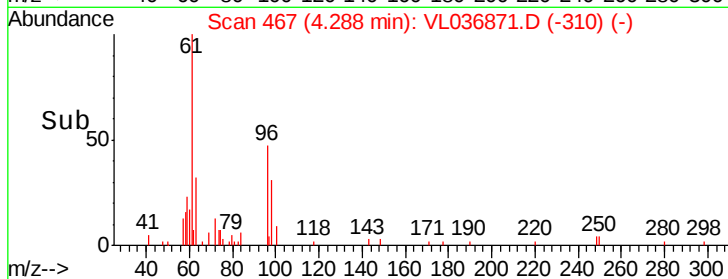
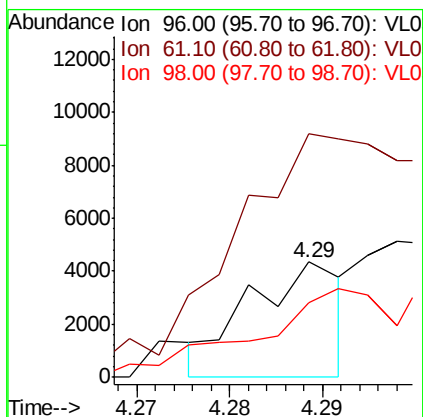
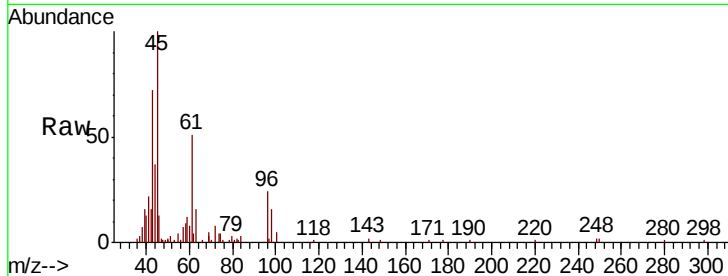
Tgt Ion: 59 Resp: 1803328
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.3 12.5





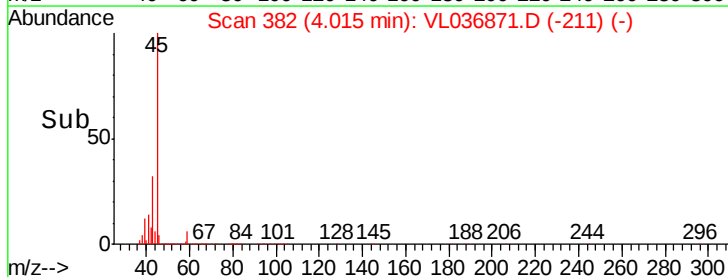
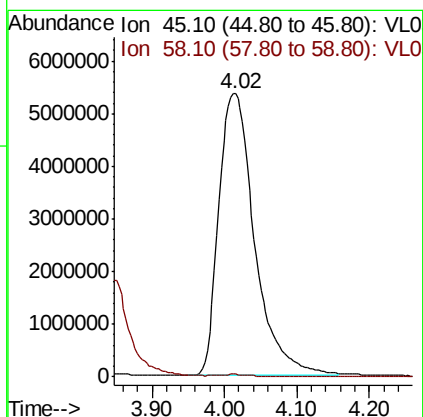
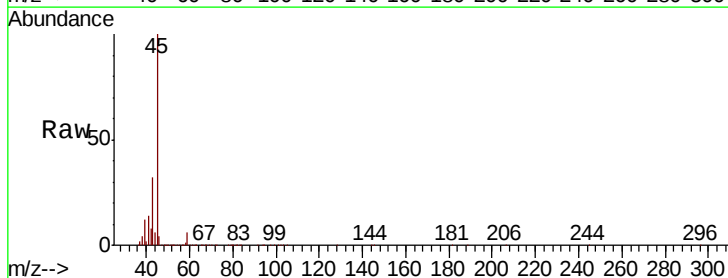
#18
 1,1-Dichloroethene
 Concen: 0.048 ppbv
 RT: 4.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 23:52

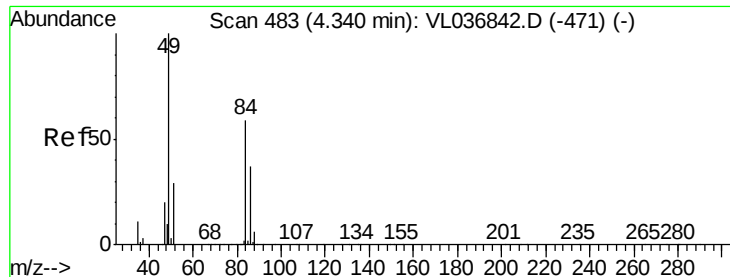
Tot Ion: 96 Resp: 3025
 Ion Ratio Lower Upper
 96 100
 61 201.9 162.2 243.2
 98 52.7 51.8 77.6



#19
 Isopropyl Alcohol
 Concen: 256.986 ppbv
 RT: 4.02 min Scan# 382
 Delta R.T. 0.05 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

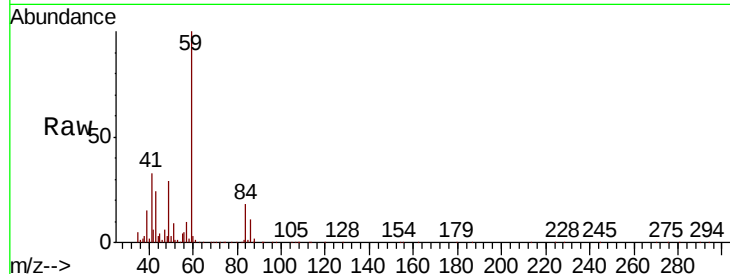
Tgt Ion: 45 Resp: 18496048
 Ion Ratio Lower Upper
 45 100
 58 0.9 2.8 4.2#





#20
Methylene Chloride
Concen: 1.967 ppbv
RT: 4.35 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 23:52

Tot Ion:	84	Resp:	136658
Ion	Ratio	Lower	Upper
84	100		
49	159.6	135.4	203.0
51	47.0	39.3	58.9
86	60.6	50.2	75.2



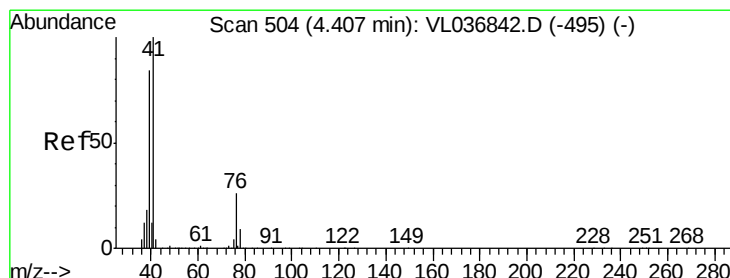
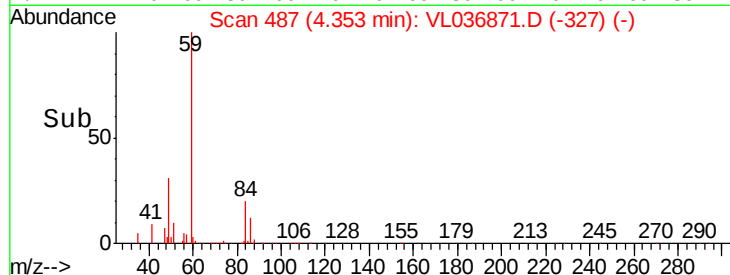
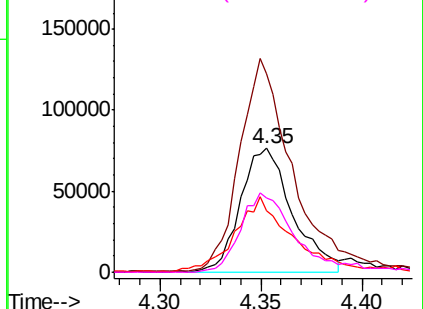
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

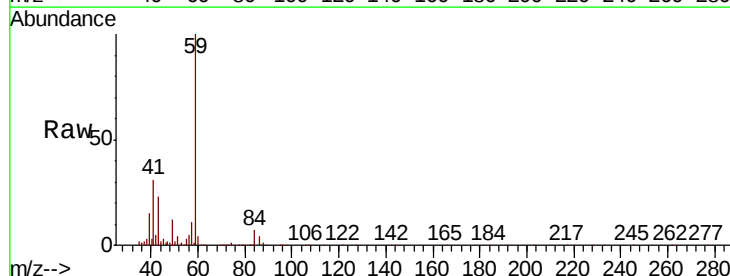
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 2.448 ppbv
RT: 4.34 min Scan# 483
Delta R.T.: -0.07 min
Lab File: VL036871.D
Acq: 27 Apr 2021 23:52

Tgt Ion:	41	Resp:	264192
Ion	Ratio	Lower	Upper
41	100		
76	0.2	22.4	33.6#
39	104.3	68.4	102.6#

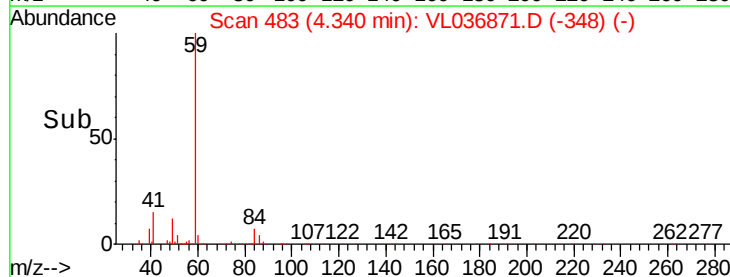
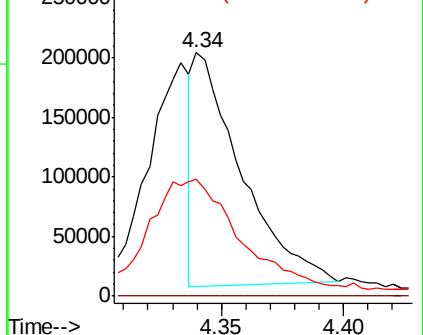


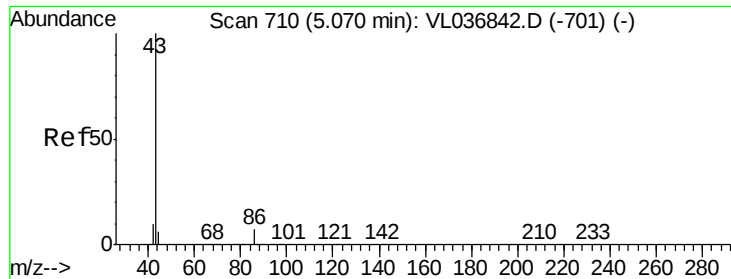
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

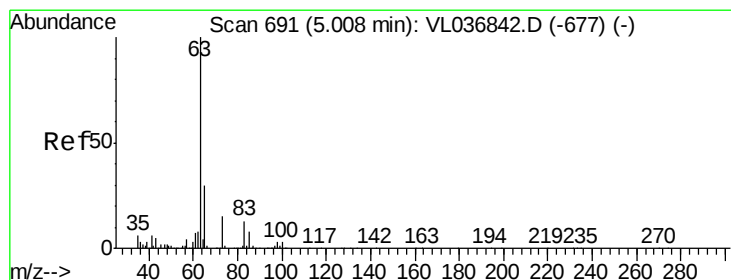
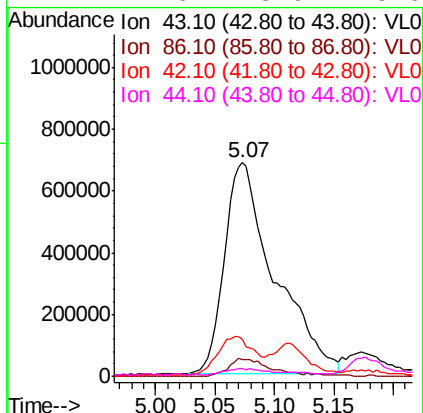
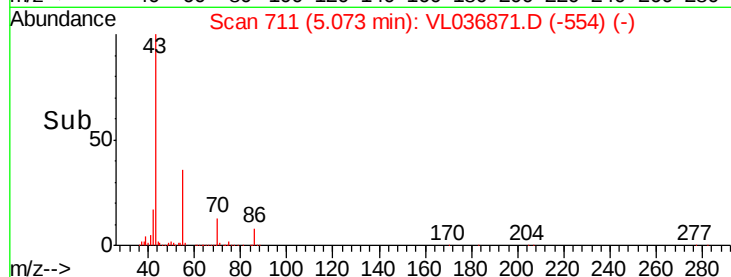
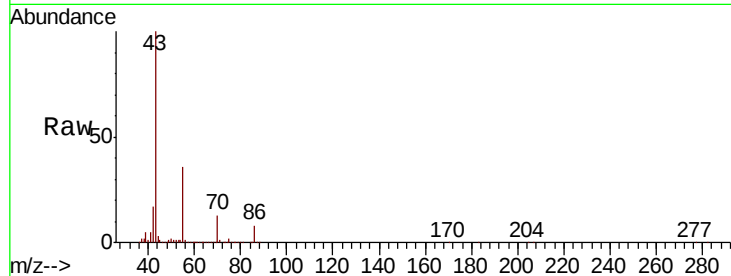
Ion 39.10 (38.80 to 39.80): VL0





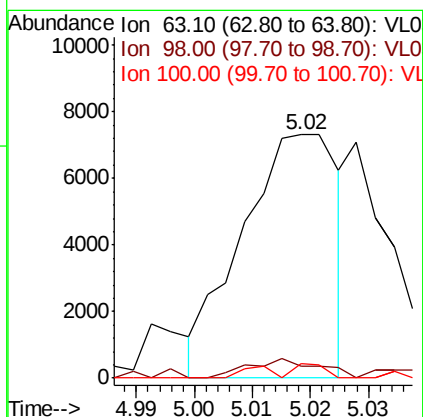
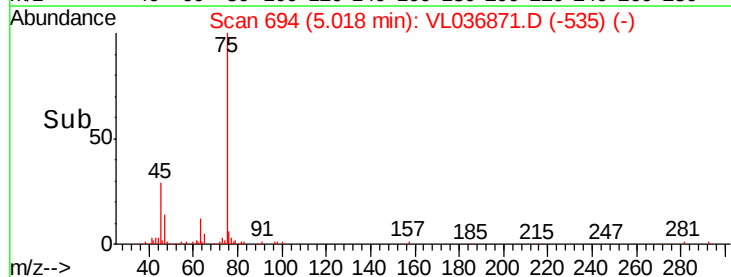
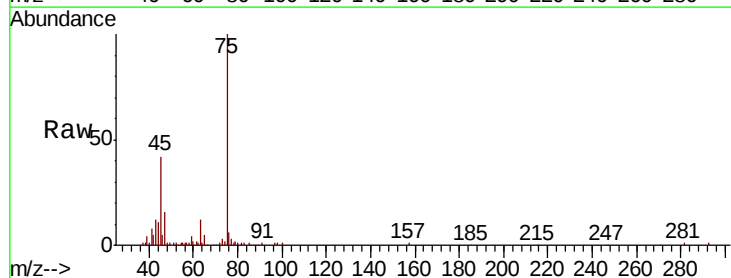
#23
 Vinyl Acetate
 Concen: 10.103 ppbv
 RT: 5.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 23:52

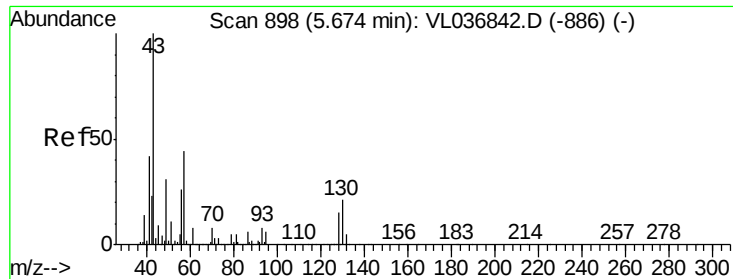
Tot Ion:	43	Resp:	1996274
Ion	Ratio	Lower	Upper
43	100		
86	8.2	5.3	7.9#
42	16.7	8.7	13.1#
44	2.6	3.9	5.9#



#24
 1,1-Dichloroethane
 Concen: 0.060 ppbv
 RT: 5.02 min Scan# 694
 Delta R.T.: 0.01 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

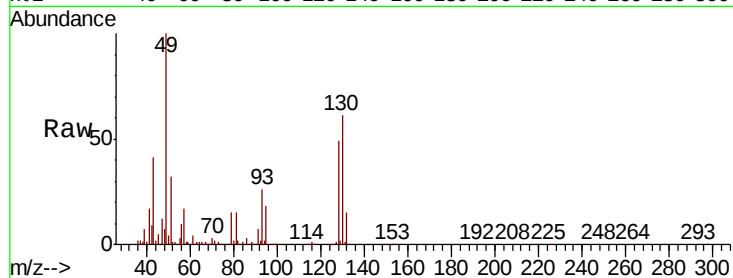
Tgt Ion:	63	Resp:	8422
Ion	Ratio	Lower	Upper
63	100		
98	5.8	1.7	5.1#
100	7.4	1.3	3.8#





#25
Ethyl Acetate
Concen: 1.624 ppbv
RT: 5.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 23:52

Tot Ion:	43	Resp:	576369
Ion	Ratio	Lower	Upper
43	100		
45	17.3	7.8	11.8#
61	9.0	7.4	11.0
70	6.3	5.4	8.0



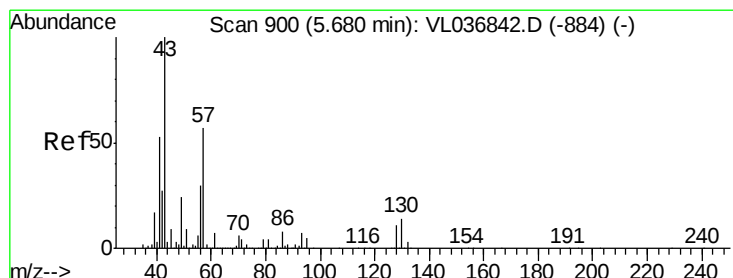
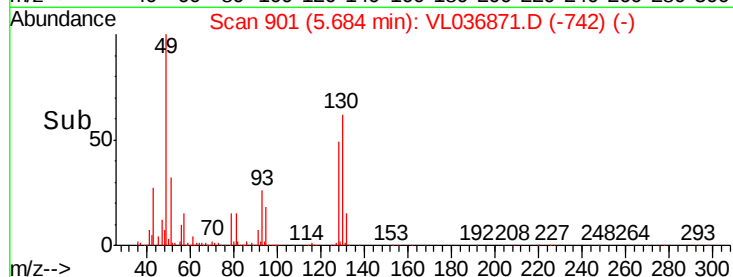
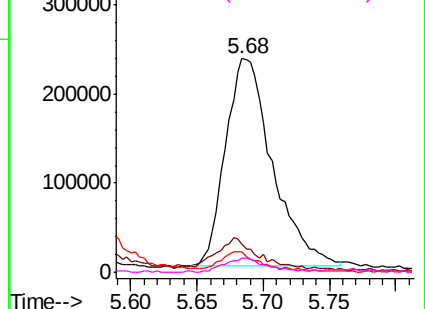
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

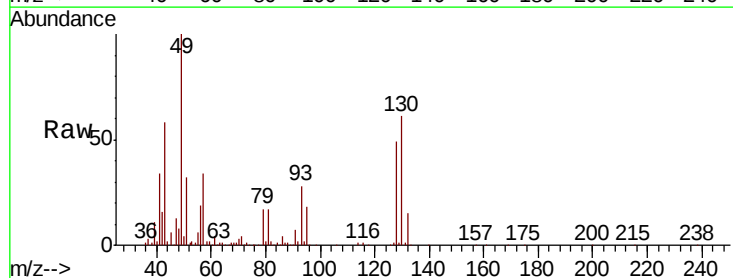
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.596 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.01 min
Lab File: VL036871.D
Acq: 27 Apr 2021 23:52

Tgt Ion:	57	Resp:	264931
Ion	Ratio	Lower	Upper
57	100		
41	109.5	77.7	116.5
43	240.5	180.5	270.7
56	57.0	44.6	66.8



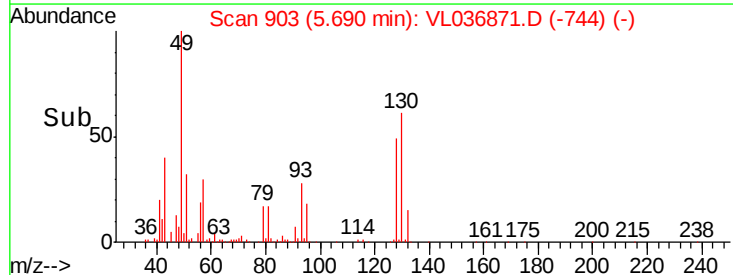
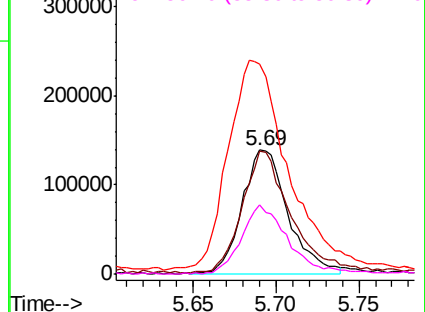
Abundance

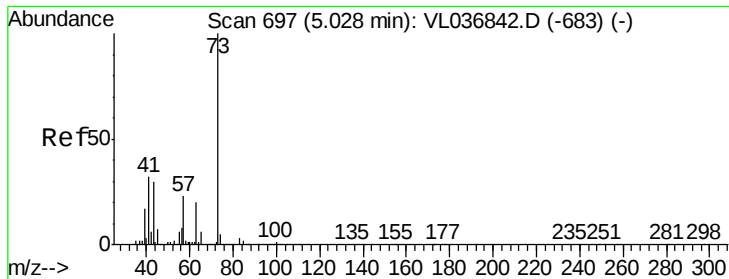
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

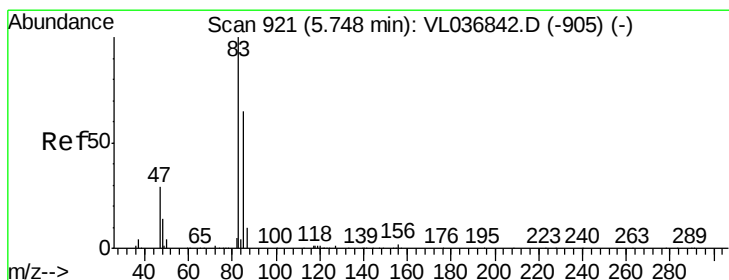
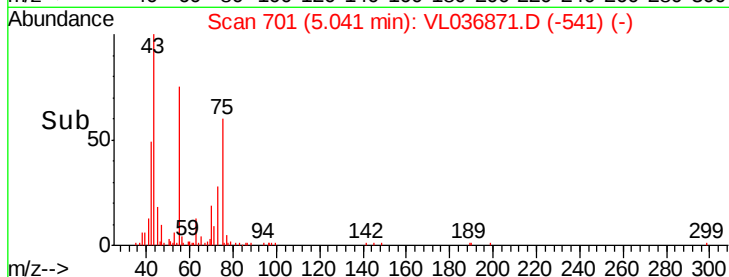
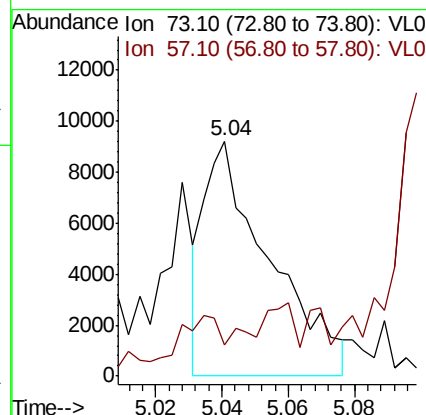
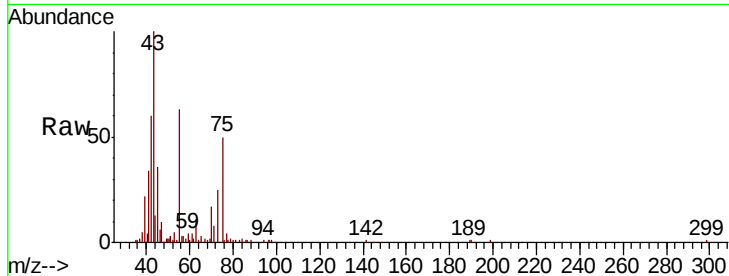
Ion 56.10 (55.80 to 56.80): VL0





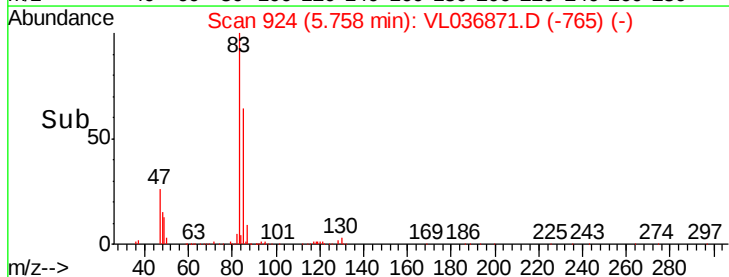
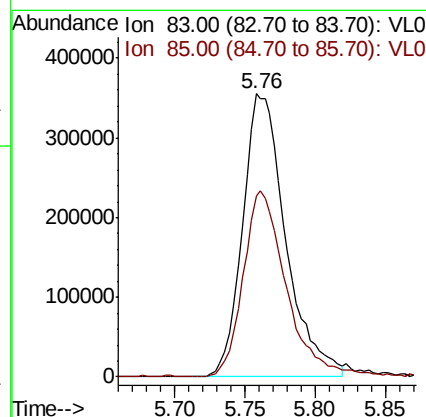
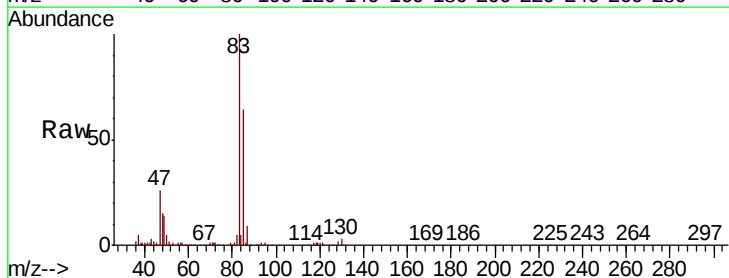
#28
Methvl tert-Butvl Ether
Concen: 0.086 ppbv
RT: 5.04 Instrument :
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Apr 2021 23:52

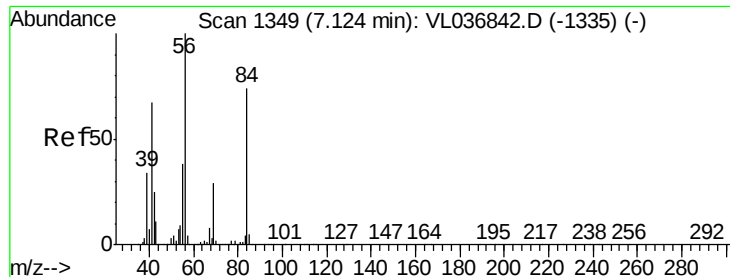
Tot Ion: 73 Resp: 12615
Ion Ratio Lower Upper
73 100
57 0.0 19.0 28.6#



#29
Chloroform
Concen: 2.941 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.01 min
Lab File: VL036871.D
Acq: 27 Apr 2021 23:52

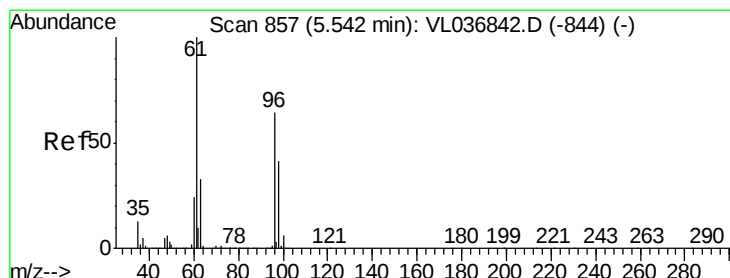
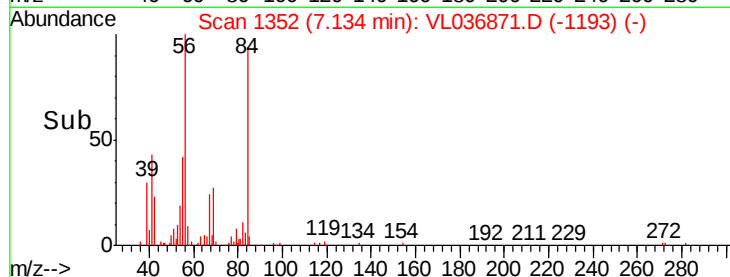
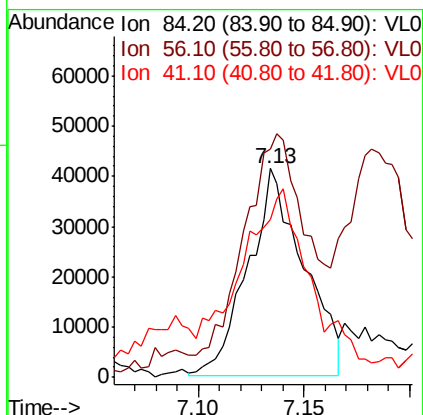
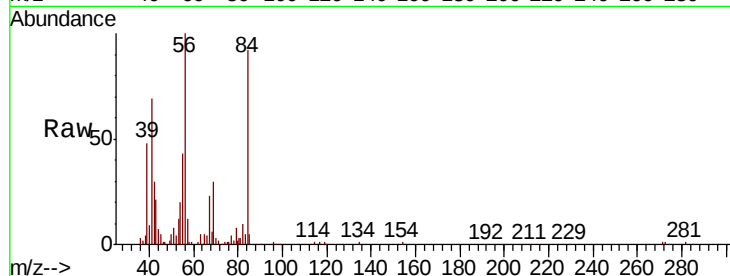
Tgt Ion: 83 Resp: 761086
Ion Ratio Lower Upper
83 100
85 63.7 52.2 78.4





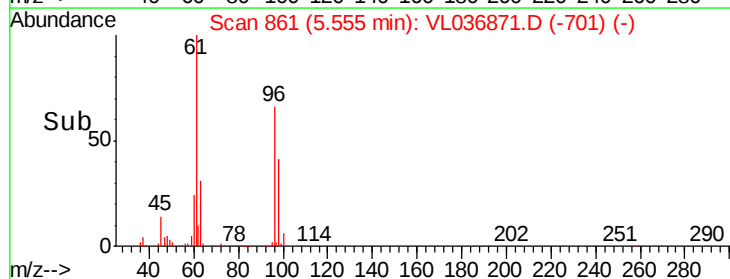
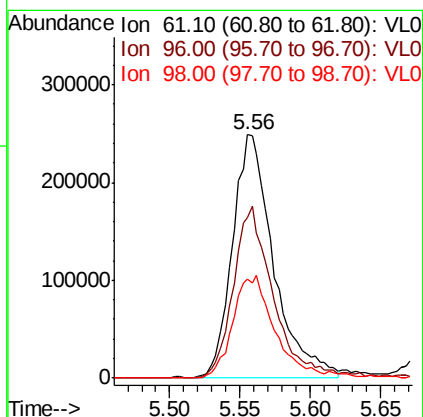
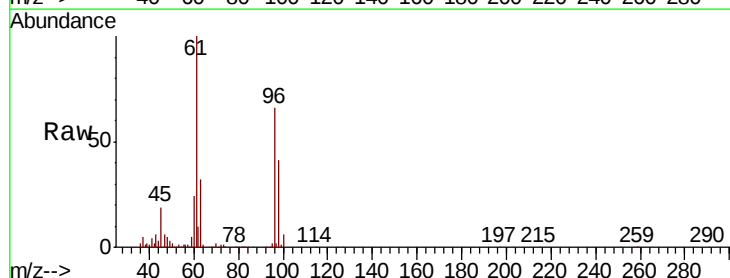
#30
Cvclohexane
Concen: 0.574 ppbv
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Apr 2021 23:52

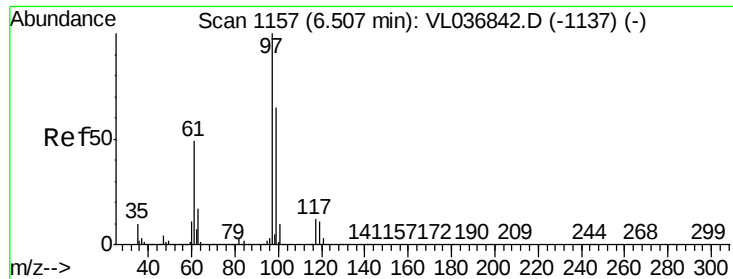
Tot Ion: 84 Resp: 75626
Ion Ratio Lower Upper
84 100
56 147.5 115.8 173.6
41 138.1 74.6 111.8#



#31
cis-1,2-Dichloroethene
Concen: 3.406 ppbv
RT: 5.56 min Scan# 861
Delta R.T. 0.01 min
Lab File: VL036871.D
Acq: 27 Apr 2021 23:52

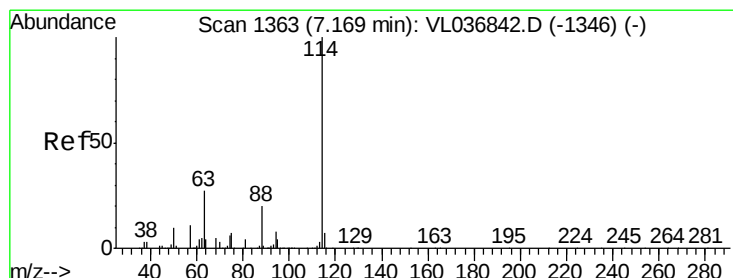
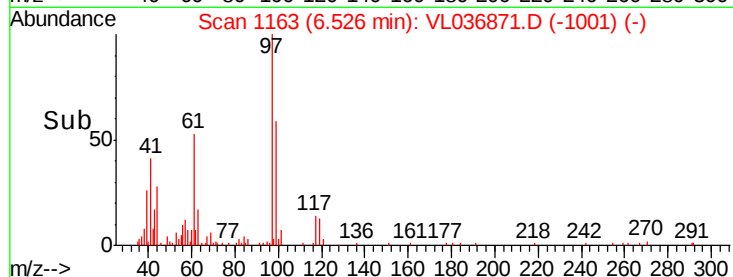
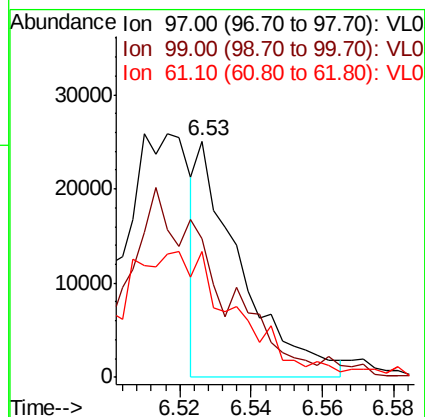
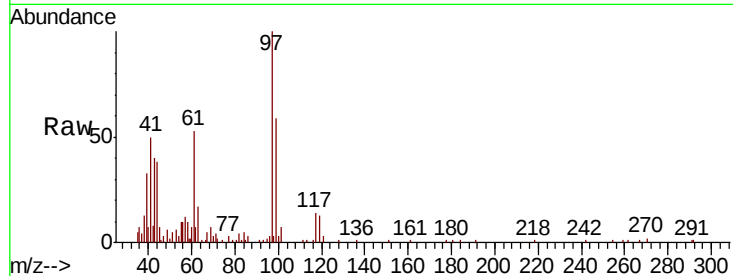
Tgt Ion: 61 Resp: 507591
Ion Ratio Lower Upper
61 100
96 66.1 51.0 76.6
98 40.5 32.7 49.1





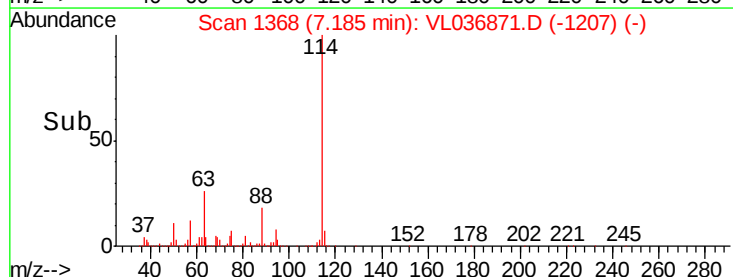
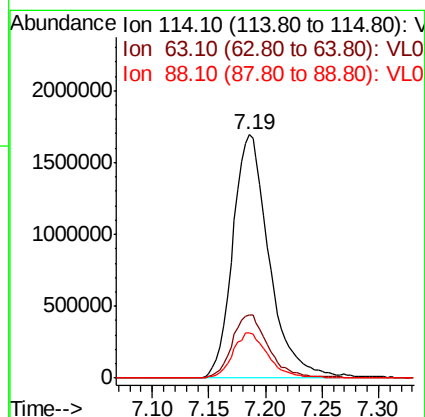
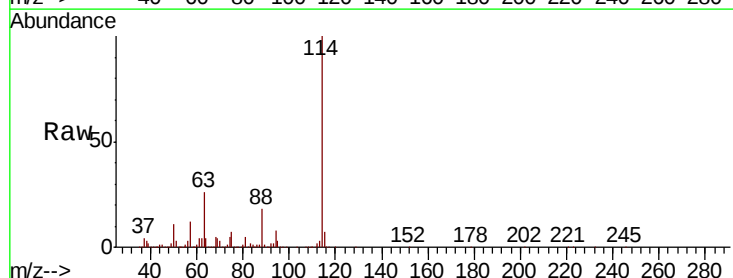
#32
 1,1,1-Trichloroethane
 Concen: 0.081 ppbv
 RT: 6.53
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 23:52

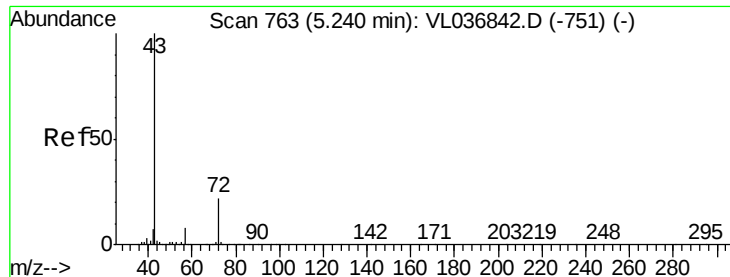
Tot Ion: 97 Resp: 21391
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.8 77.6#
 61 146.6 40.8 61.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.02 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

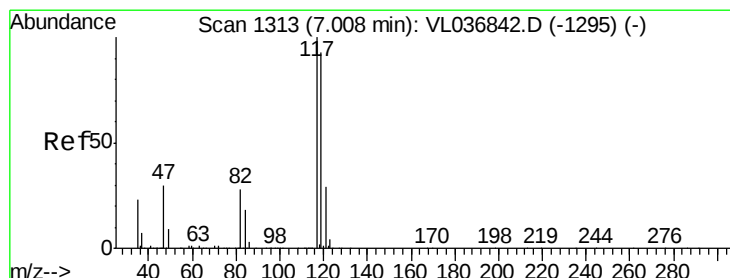
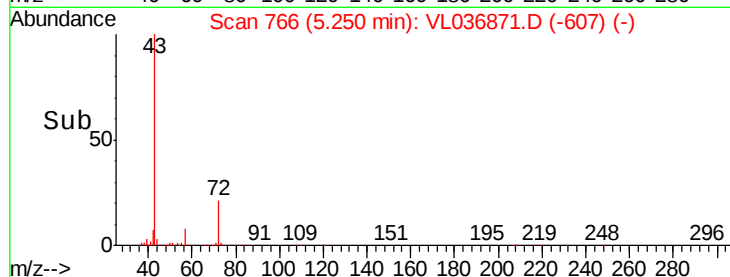
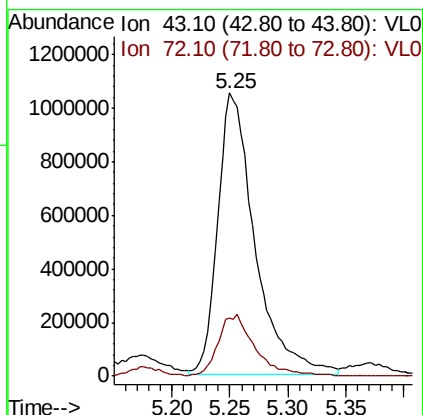
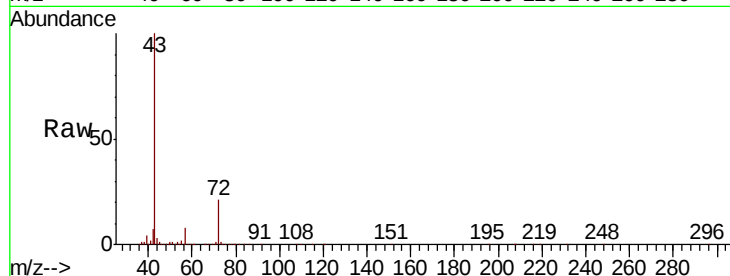
Tgt Ion: 114 Resp: 3785770
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.9 32.9
 88 18.4 15.1 22.7





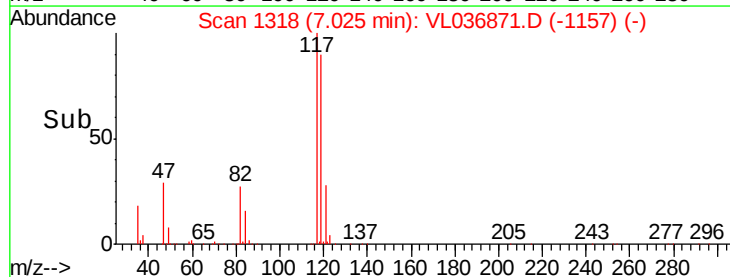
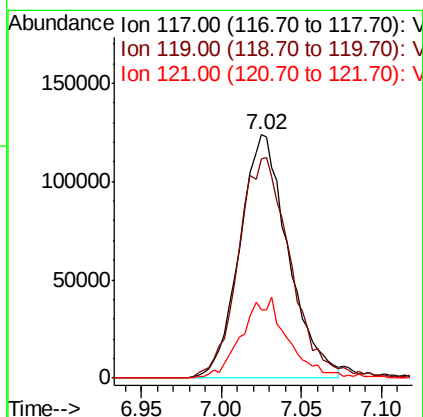
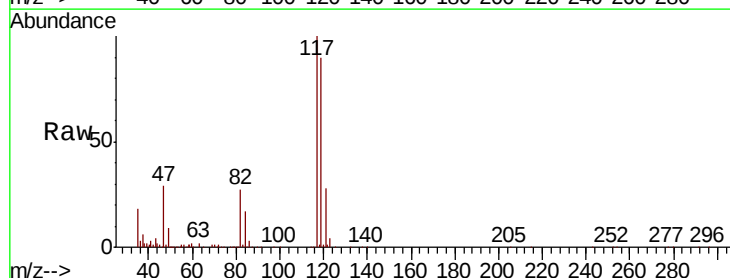
#34
 2-Butanone
 Concen: 14.131 ppbv
 RT: 5.25
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 23:52

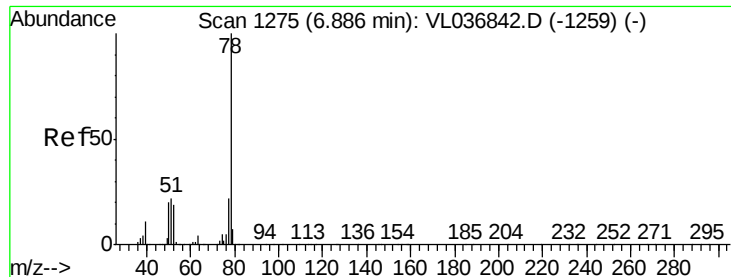
Tot Ion: 43 Resp: 2343458
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.6 26.4



#35
 Carbon Tetrachloride
 Concen: 1.001 ppbv
 RT: 7.02 min Scan# 1318
 Delta R.T.: 0.02 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

Tgt Ion: 117 Resp: 257173
 Ion Ratio Lower Upper
 117 100
 119 89.9 74.6 111.8
 121 28.0 23.3 34.9





#36

Benzene

Concen: 0.724 ppbv

RT: 6.90 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 23:52

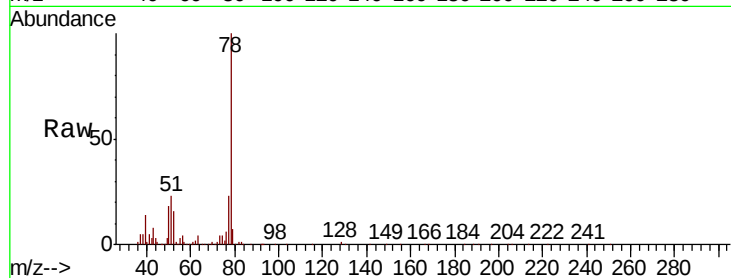
Tot Ion: 78 Resp: 230795

Ion Ratio Lower Upper

78 100

77 21.3 17.6 26.4

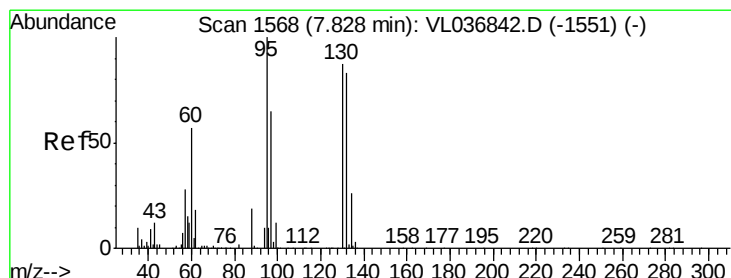
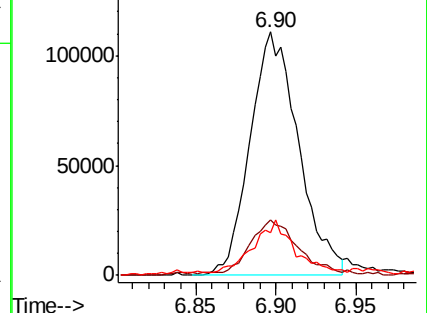
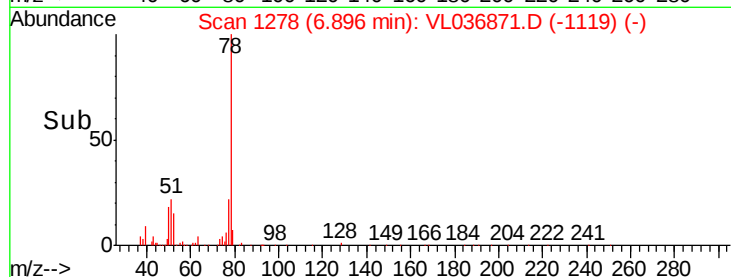
50 16.4 16.3 24.5



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



#38

Trichloroethene

Concen: 0.388 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

Tgt Ion: 130 Resp: 44019

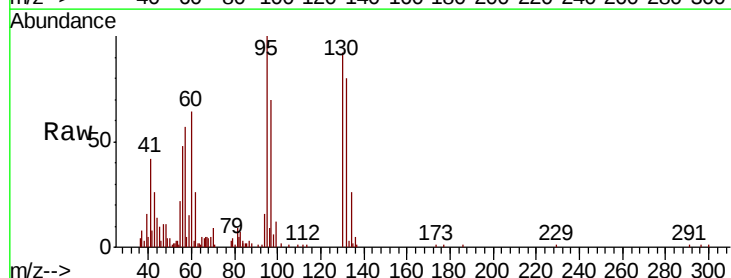
Ion Ratio Lower Upper

130 100

95 106.8 92.3 138.5

132 86.7 76.8 115.2

97 74.8 60.0 90.0

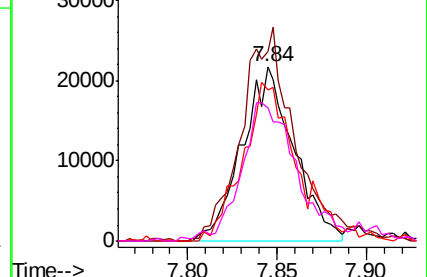
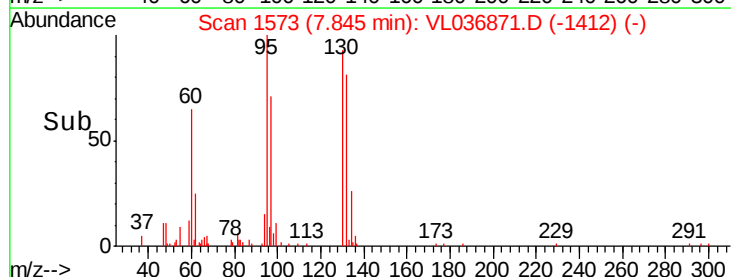


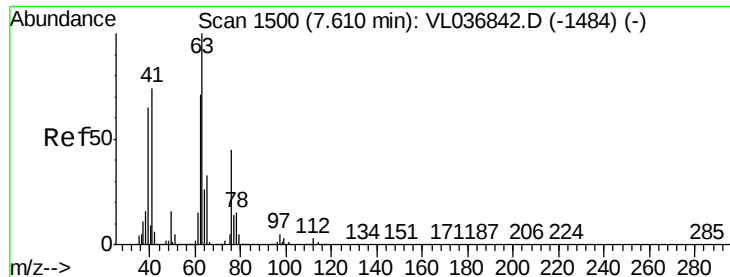
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.607 ppbv

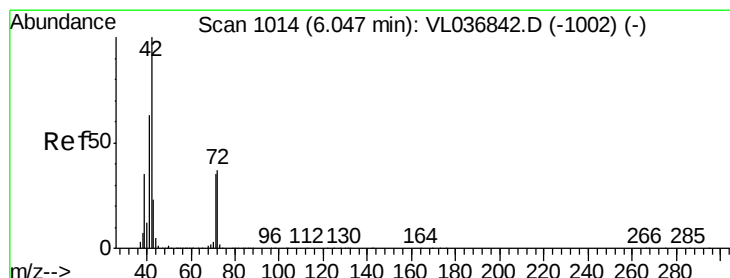
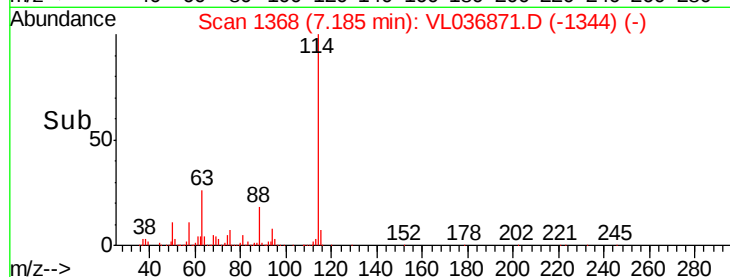
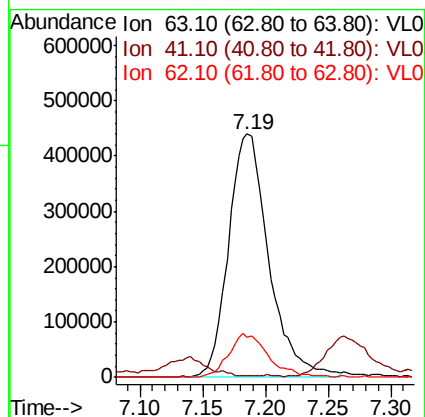
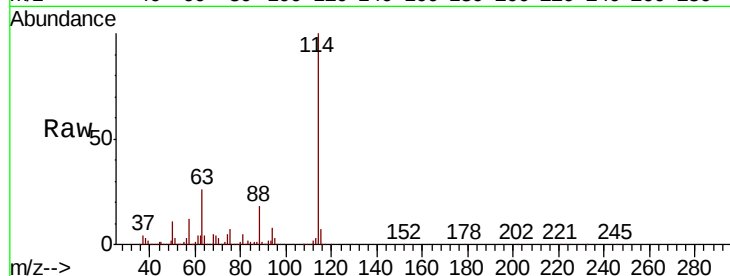
RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 23:52

Tot Ion:	63	Resp:	972127
Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.1	88.7#
62	16.6	56.9	85.3#



#41

Tetrahydrofuran

Concen: 0.259 ppbv

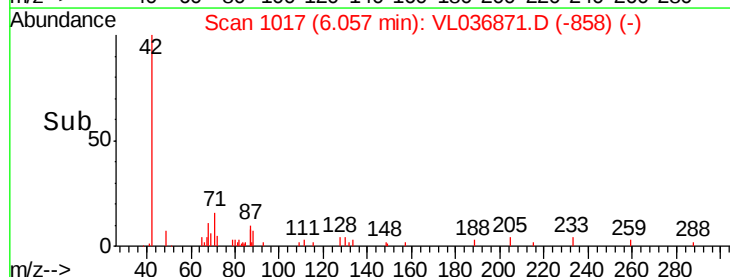
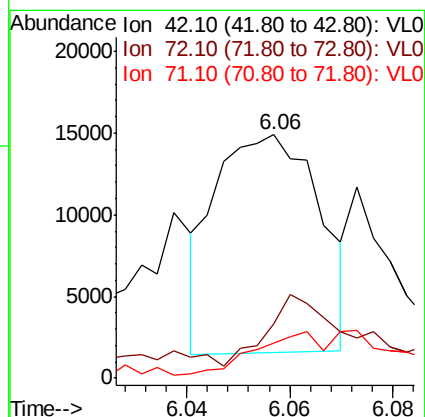
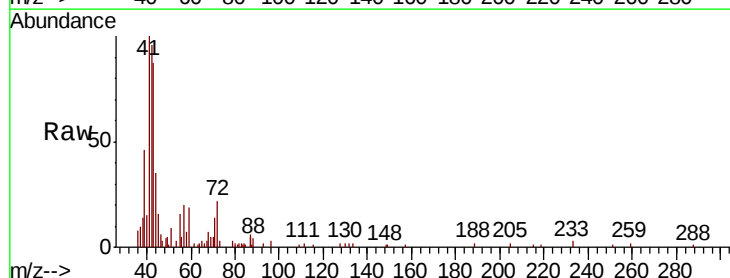
RT: 6.06 min Scan# 1017

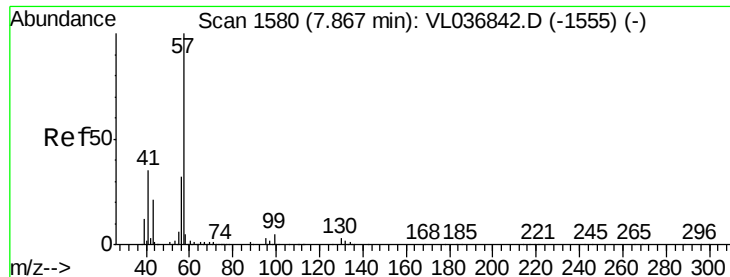
Delta R.T. 0.01 min

Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

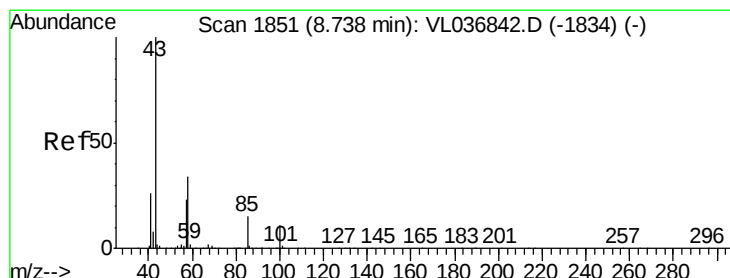
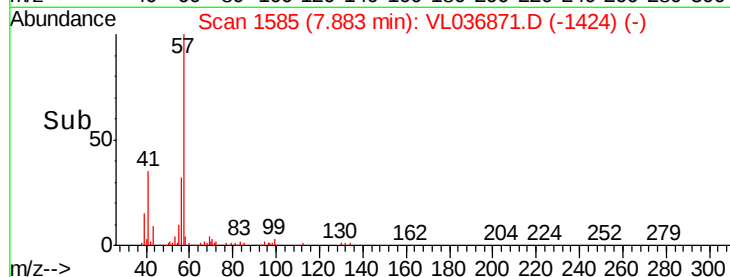
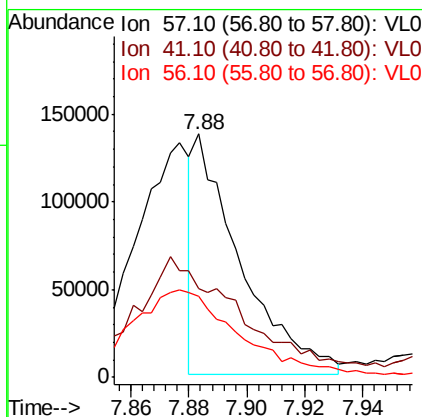
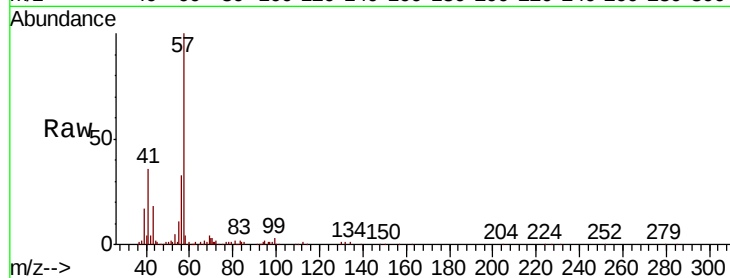
Tgt Ion:	42	Resp:	18776
Ion	Ratio	Lower	Upper
42	100		
72	51.6	29.7	44.5#
71	0.0	29.0	43.6#





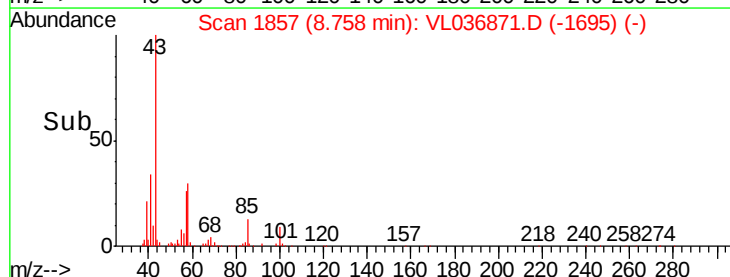
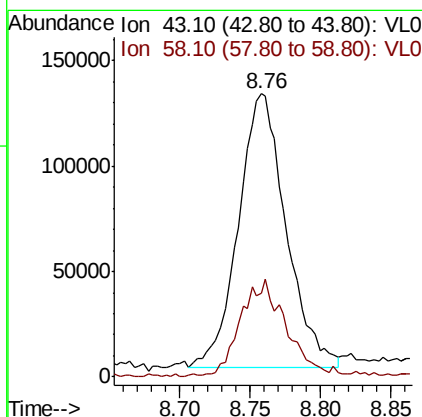
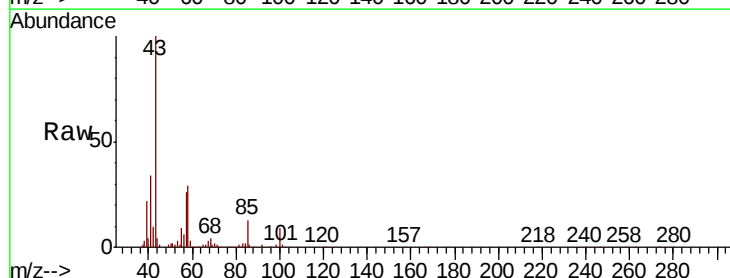
#44
 2,2,4-Trimethylpentane
 Concen: 0.279 ppbv
 RT: 7.88 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 23:52

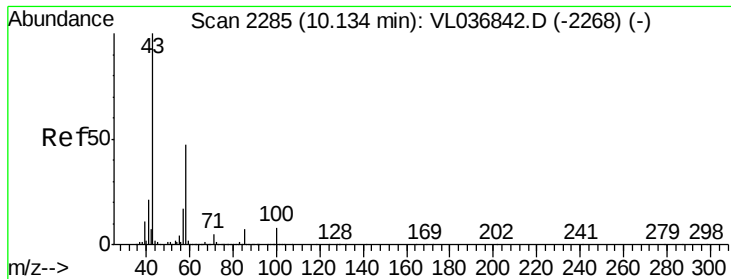
Tot Ion:	57	Resp:	152298
Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.2	42.4#
56	0.0	25.9	38.9#



#50
 4-Methyl-2-Pentanone
 Concen: 1.362 ppbv
 RT: 8.76 min Scan# 1857
 Delta R.T. 0.02 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

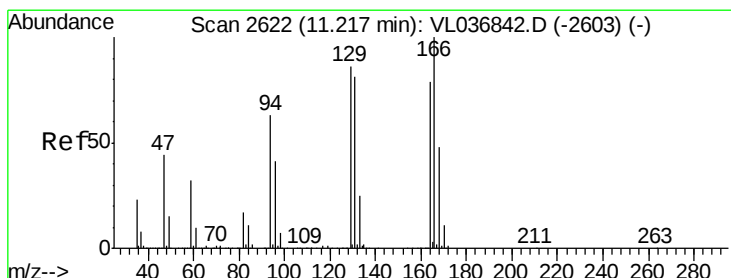
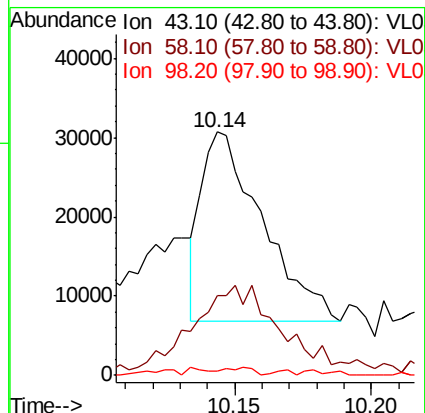
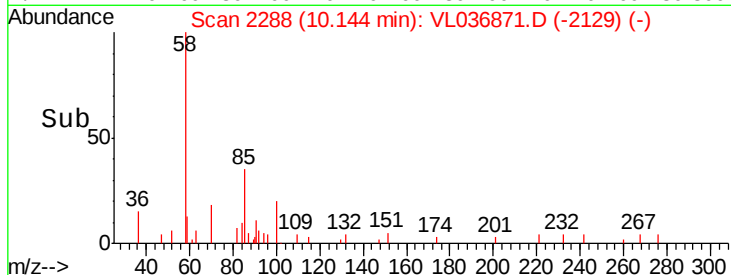
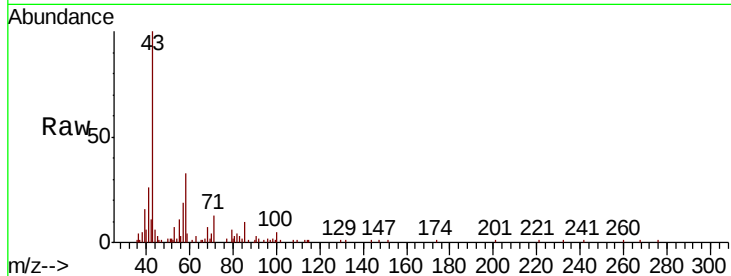
Tgt Ion:	43	Resp:	308683
Ion	Ratio	Lower	Upper
43	100		
58	33.7	27.8	41.8





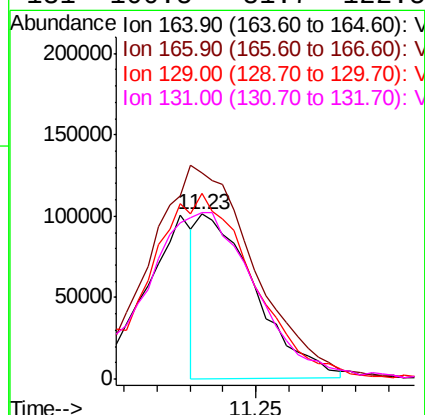
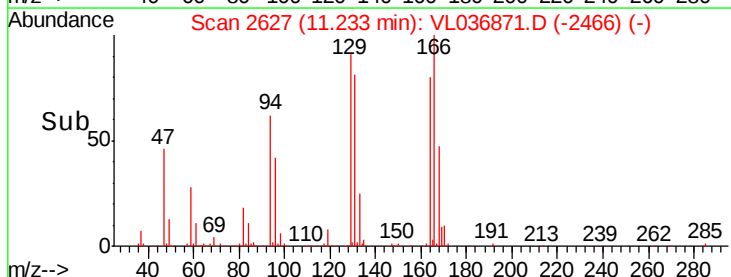
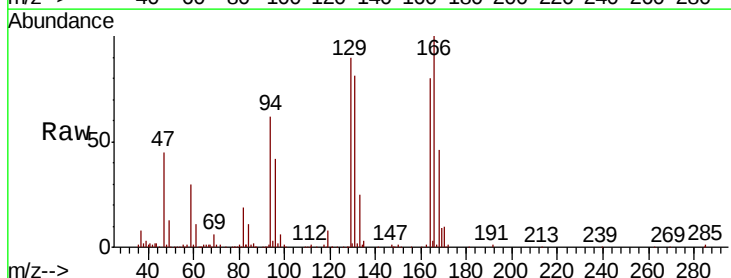
#51
2-Hexanone
Concen: 0.327 ppbv
RT: 10.14 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Apr 2021 23:52

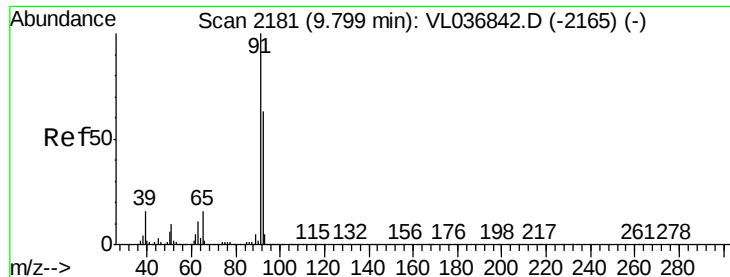
Tot Ion:	43	Resp:	36993
Ion	Ratio	Lower	Upper
43	100		
58	70.9	37.0	55.6#
98	6.8	0.2	0.4#



#52
Tetrachloroethene
Concen: 1.136 ppbv
RT: 11.23 min Scan# 2627
Delta R.T. 0.02 min
Lab File: VL036871.D
Acq: 27 Apr 2021 23:52

Tgt Ion:	164	Resp:	123408
Ion	Ratio	Lower	Upper
164	100		
166	125.1	100.9	151.3
129	111.7	87.0	130.4
131	100.5	81.7	122.5





#53

Toluene

Concen: 2.877 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

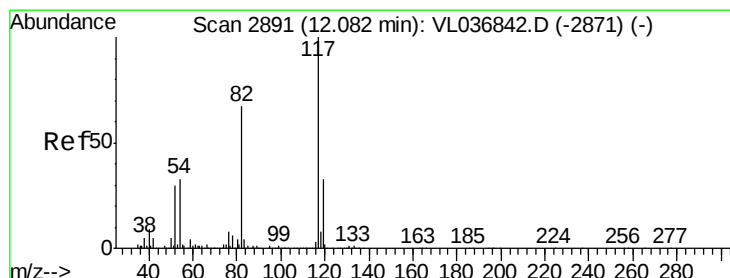
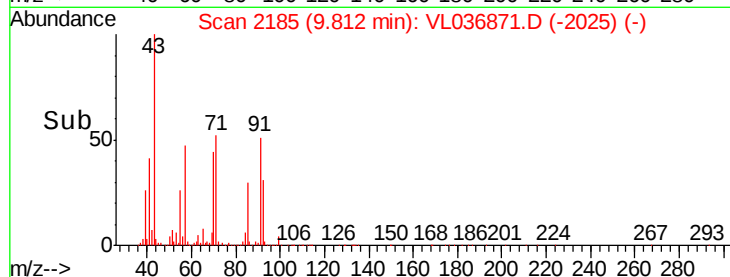
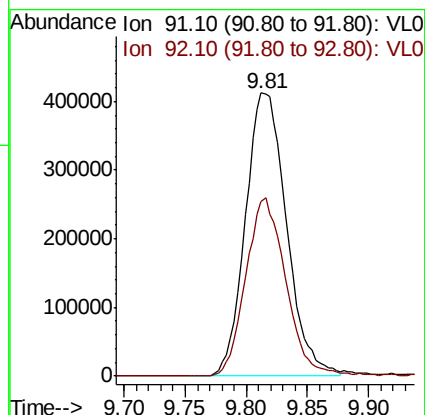
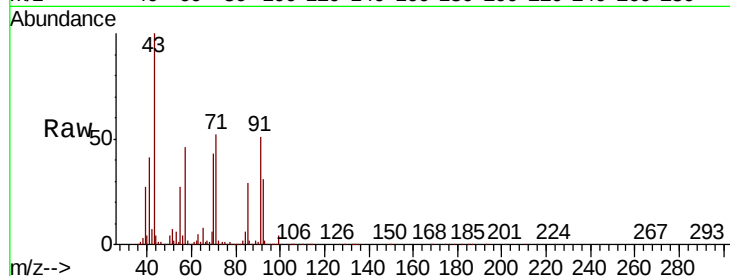
Acq: 27 Apr 2021 23:52

Tot Ion: 91 Resp: 960275

Ion Ratio Lower Upper

91 100

92 61.6 49.0 73.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.02 min

Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

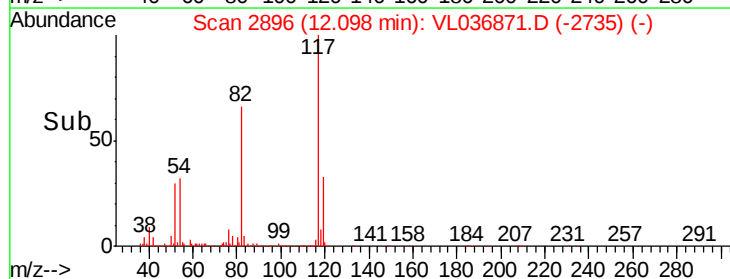
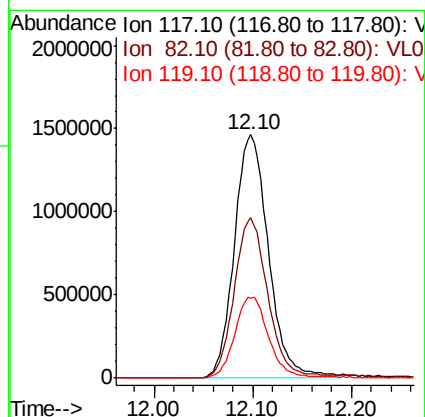
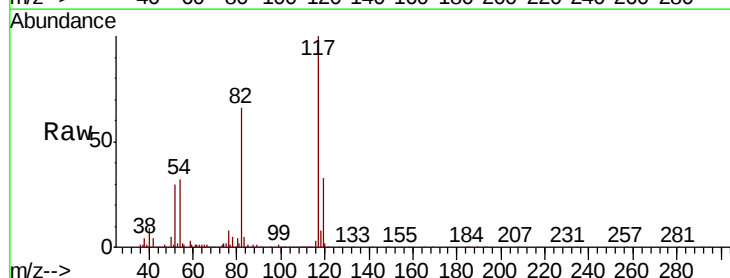
Tgt Ion: 117 Resp: 3529227

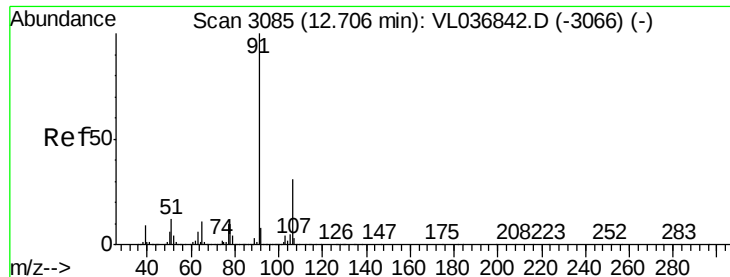
Ion Ratio Lower Upper

117 100

82 66.9 53.5 80.3

119 33.1 25.6 38.4





#58

Ethyl Benzene

Concen: 0.649 ppbv

RT: 12.72

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

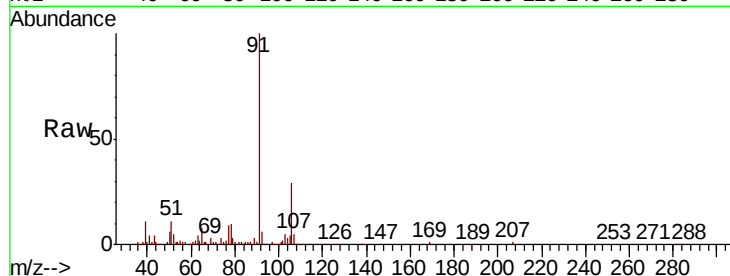
Acq: 27 Apr 2021 23:52

Tot Ion: 91 Resp: 290325

Ion Ratio Lower Upper

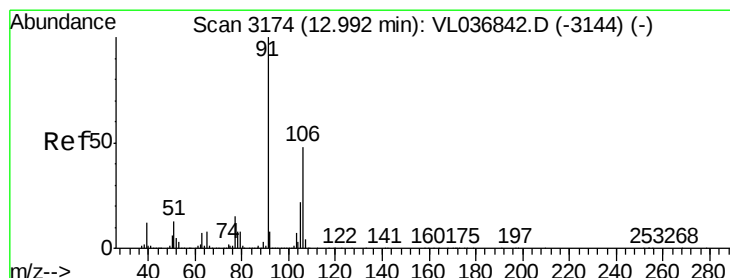
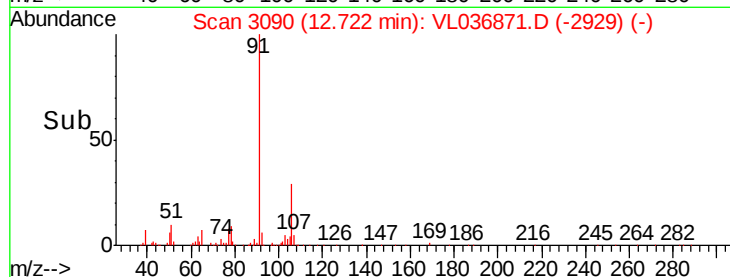
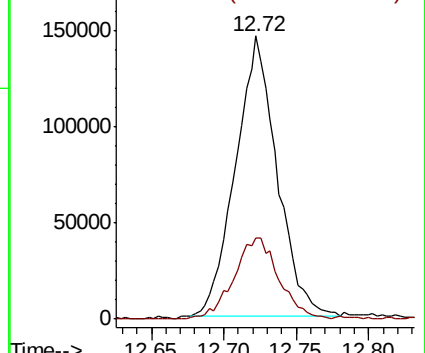
91 100

106 28.4 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 2.187 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL036871.D

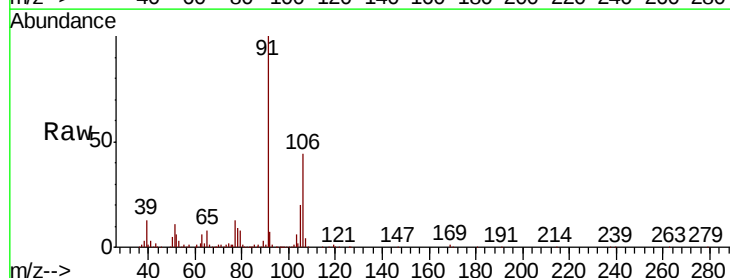
Acq: 27 Apr 2021 23:52

Tgt Ion: 91 Resp: 874866

Ion Ratio Lower Upper

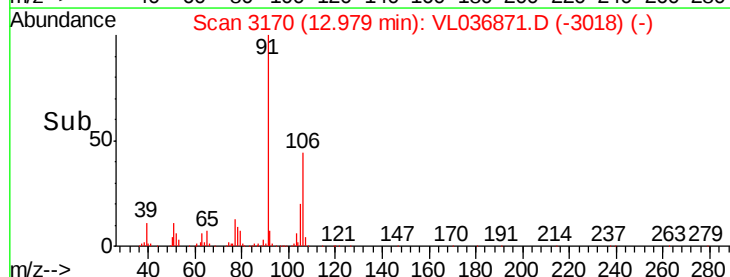
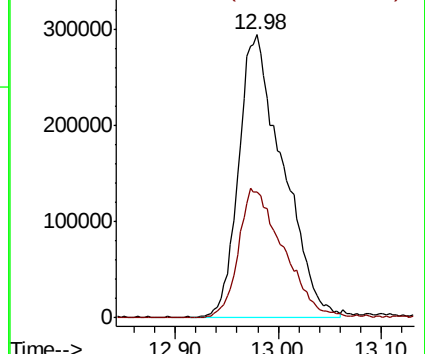
91 100

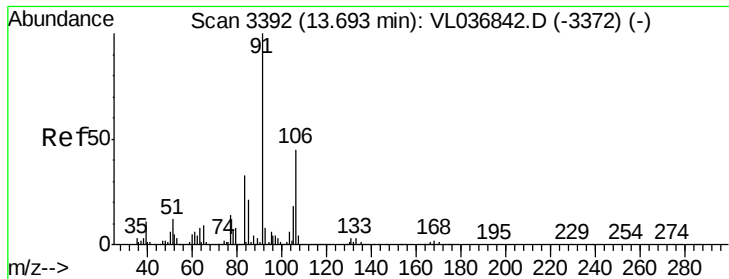
106 47.2 35.8 53.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 1.101 ppbv

RT: 13.70

Delta R.T. MSVOA_L

Lab File:

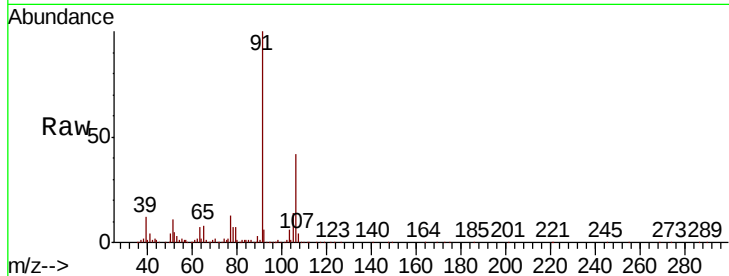
Acq: 27 Apr 2021 23:52

Tot Ion: 91 Resp: 425868

Ion Ratio Lower Upper

91 100

106 43.6 22.6 67.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): VL0

13.70

200000

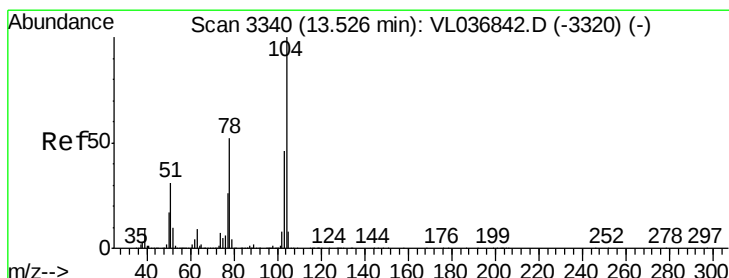
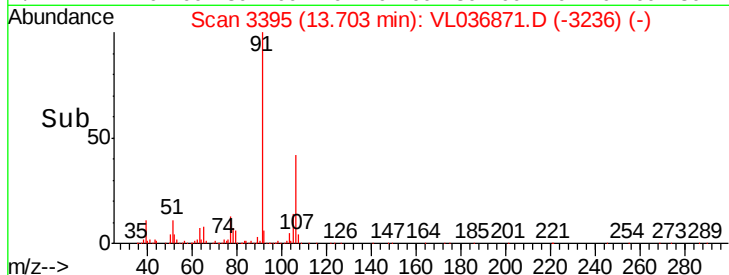
150000

100000

50000

0

Time--> 13.60 13.70



#61

Styrene

Concen: 0.037 ppbv

RT: 13.54 min Scan# 3345

Delta R.T. 0.02 min

Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

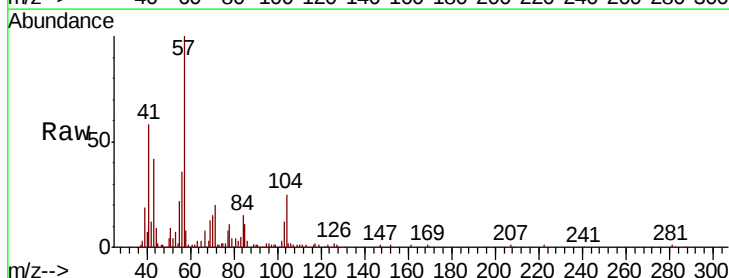
Tgt Ion: 104 Resp: 6779

Ion Ratio Lower Upper

104 100

78 0.0 42.6 64.0#

103 229.8 38.1 57.1#



Abundance Ion 104.10 (103.80 to 104.80): VL0

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): VL0

13.54

20000

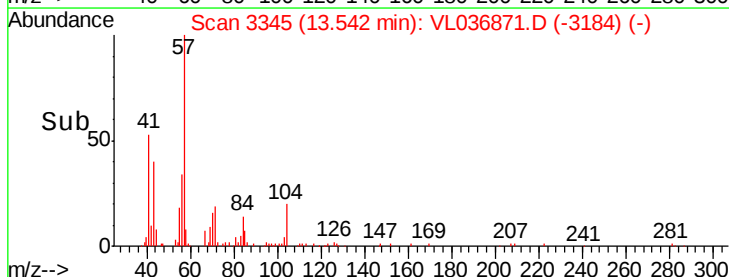
15000

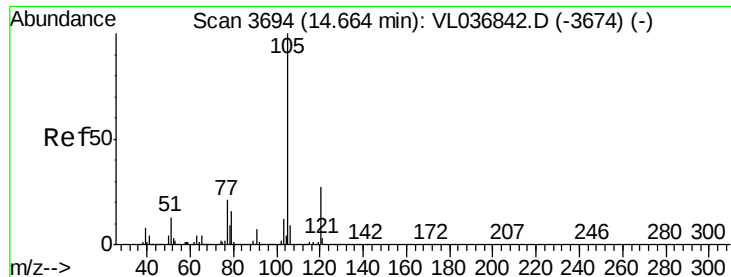
10000

5000

0

Time--> 13.54 13.55





#62

Isopropylbenzene

Concen: 0.032 ppbv

RT: 14.68 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

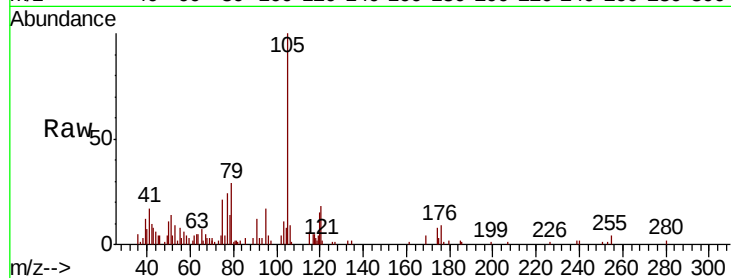
Acq: 27 Apr 2021 23:52

Tot Ion:105 Resp: 16858

Ion Ratio Lower Upper

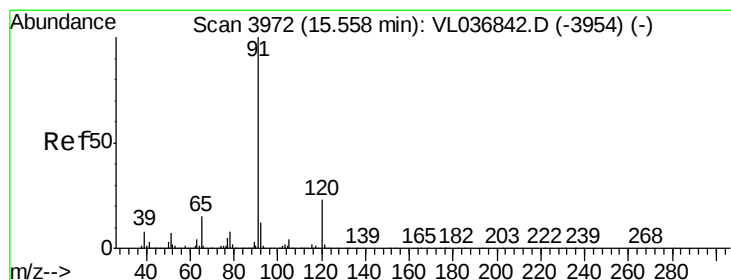
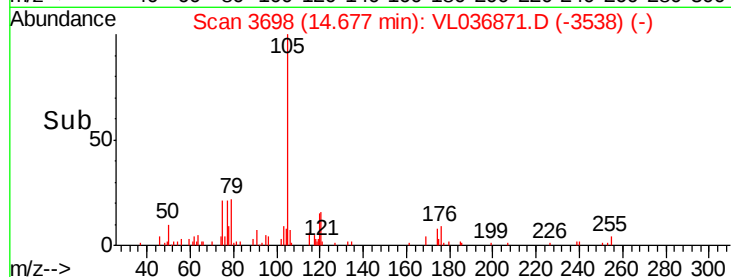
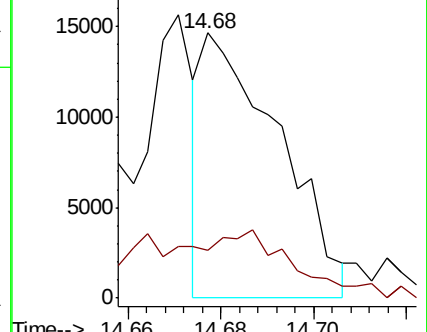
105 100

120 52.0 21.1 31.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.090 ppbv

RT: 15.58 min Scan# 3978

Delta R.T. 0.02 min

Lab File: VL036871.D

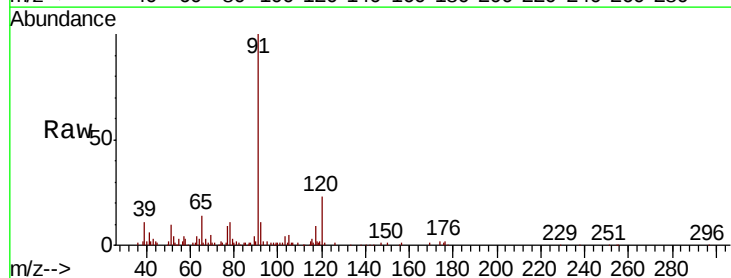
Acq: 27 Apr 2021 23:52

Tgt Ion:120 Resp: 11862

Ion Ratio Lower Upper

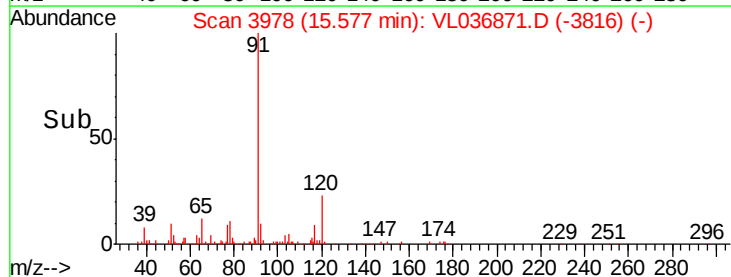
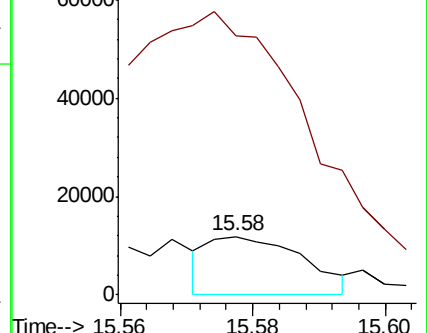
120 100

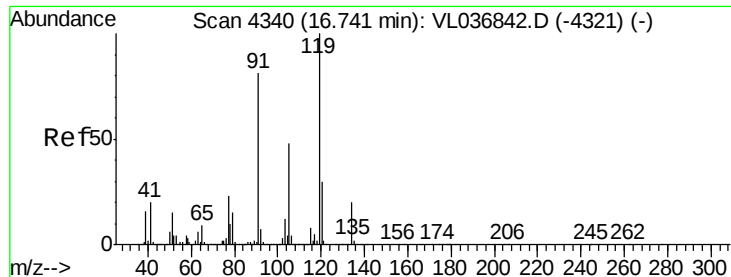
91 1201.3 378.6 567.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.165 ppbv

RT: 16.77 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 23:52

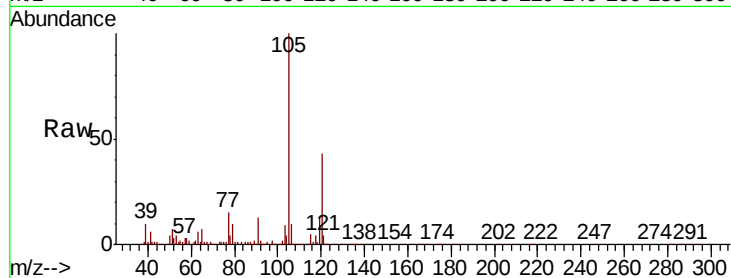
Tot Ion: 119 Resp: 76697

Ion Ratio Lower Upper

119 100

91 118.4 67.0 100.6#

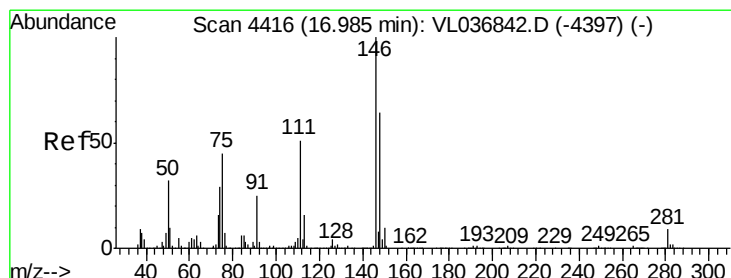
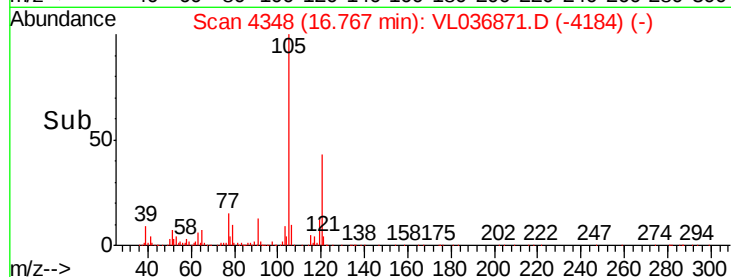
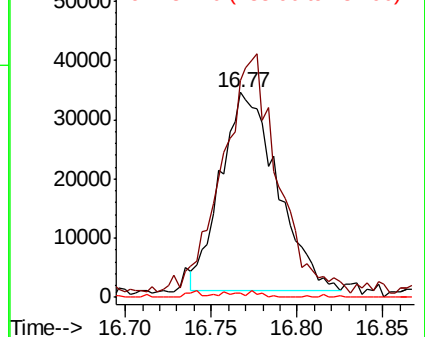
134 0.0 15.8 23.6#



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



#66

Benzyl Chloride

Concen: 0.414 ppbv

RT: 17.00 min Scan# 4421

Delta R.T. 0.02 min

Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

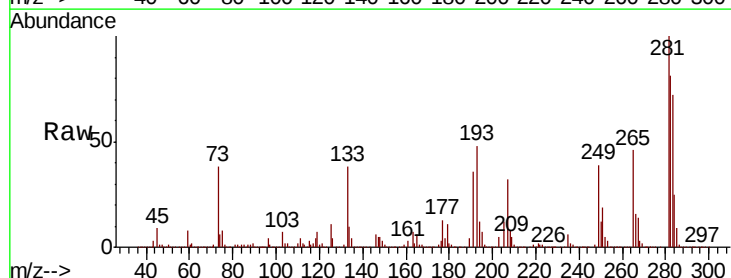
Tgt Ion: 91 Resp: 18823

Ion Ratio Lower Upper

91 100

126 0.0 14.1 21.1#

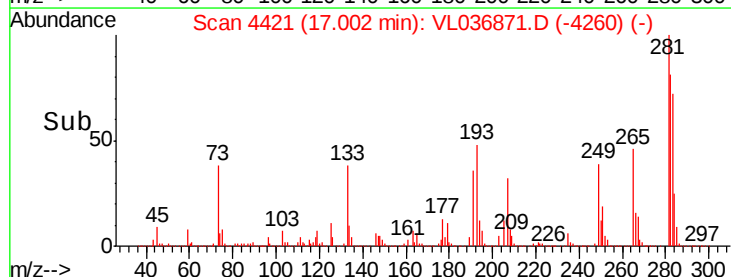
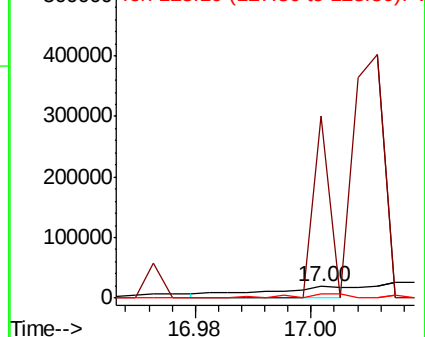
128 29.4 4.8 7.2#

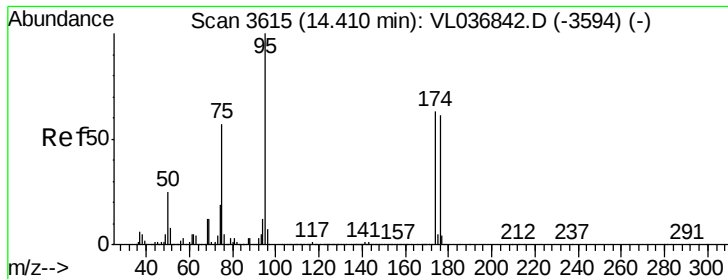


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

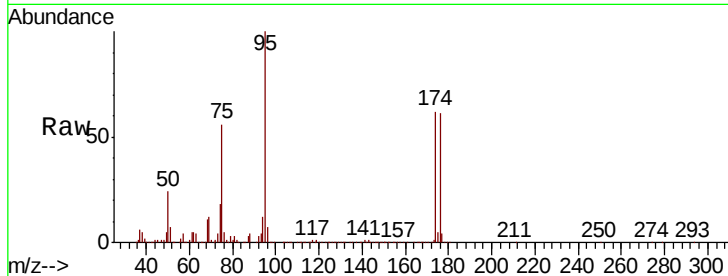
Ion 128.10 (127.80 to 128.80): V



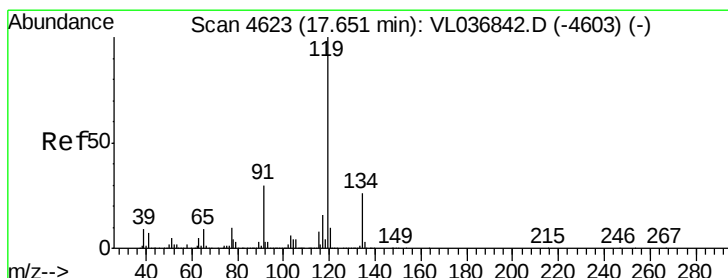
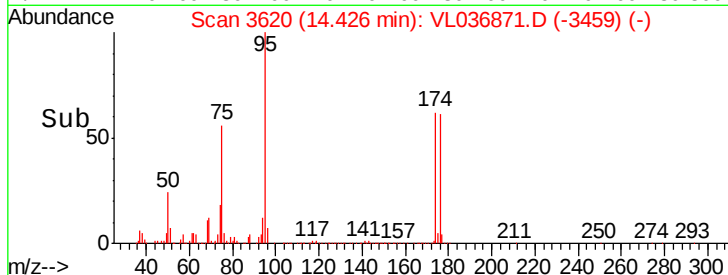
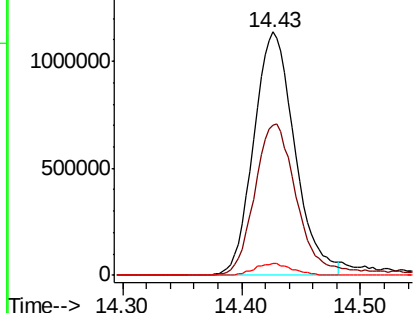


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.580 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 23:52

Tot Ion: 95 Resp: 2714144
 Ion Ratio Lower Upper
 95 100
 174 66.8 52.2 78.2
 175 4.9 4.0 6.0

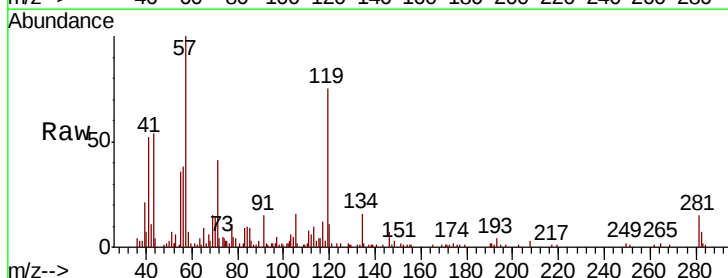


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

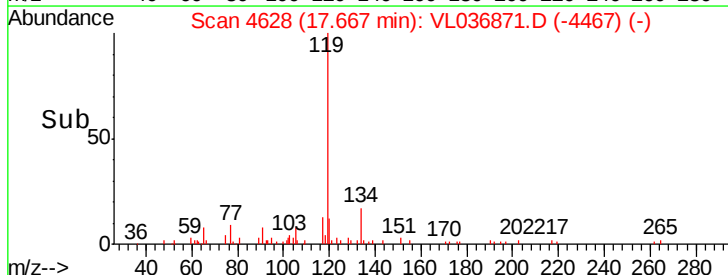
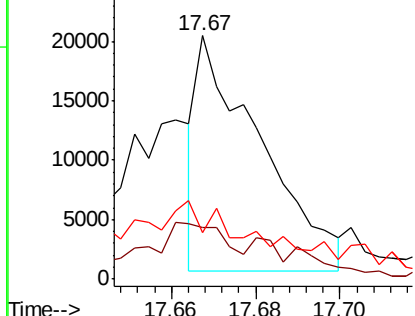


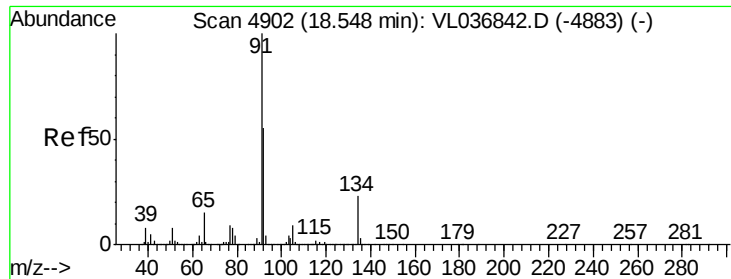
#69
 p-Isopropyltoluene
 Concen: 0.040 ppbv
 RT: 17.67 min Scan# 4628
 Delta R.T. 0.02 min
 Lab File: VL036871.D
 Acq: 27 Apr 2021 23:52

Tgt Ion: 119 Resp: 20789
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.6 31.0#
 91 54.6 24.2 36.4#



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0





#70

n-Butylbenzene

Concen: 0.067 ppbv

RT: 18.57 min

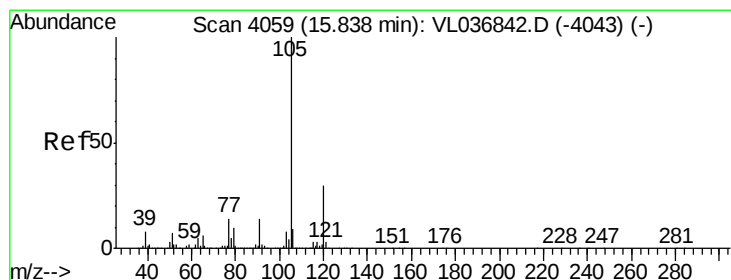
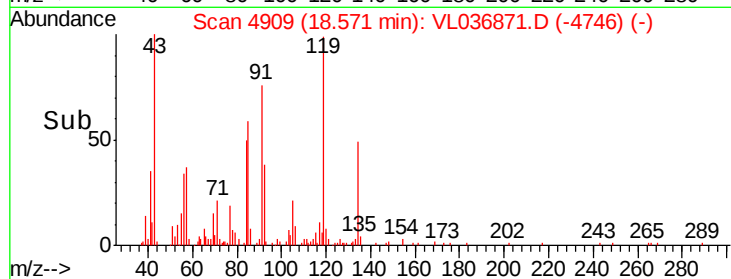
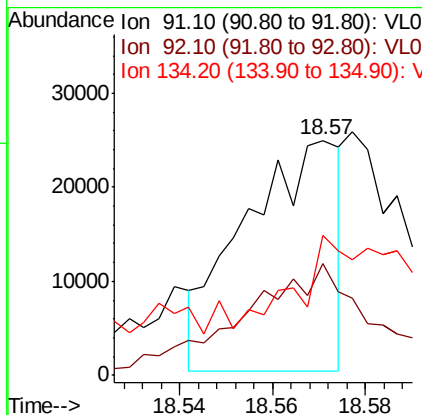
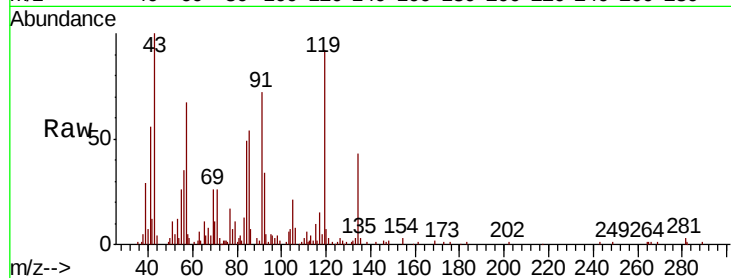
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 23:52

Tot Ion: 91 Resp: 35072

Ion	Ratio	Lower	Upper
91	100		
92	78.6	43.5	65.3#
134	110.2	18.2	27.4#



#72

4-Ethyltoluene

Concen: 0.202 ppbv

RT: 15.85 min Scan# 4064

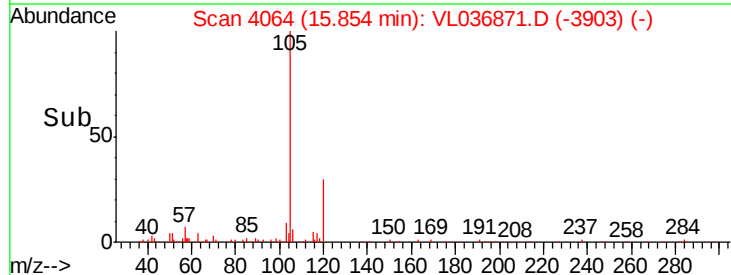
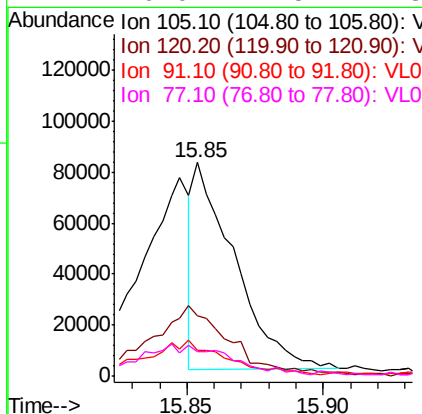
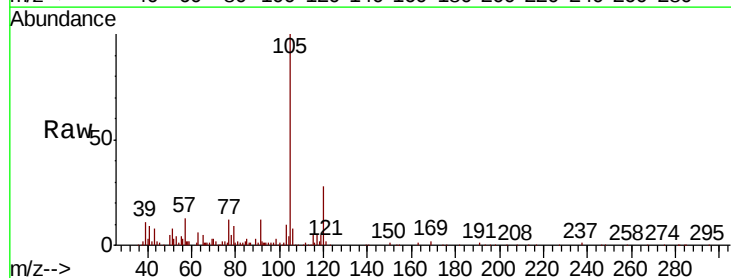
Delta R.T. 0.02 min

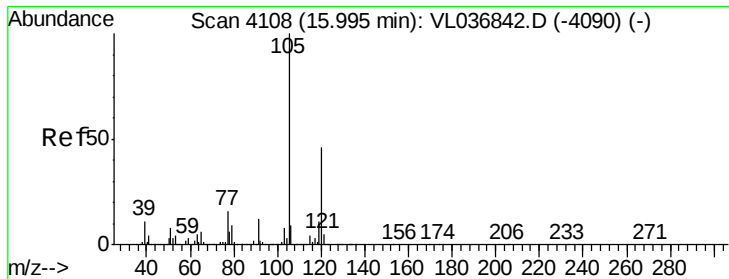
Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

Tgt Ion: 105 Resp: 83818

Ion	Ratio	Lower	Upper
105	100		
120	67.1	23.8	35.6#
91	27.8	10.7	16.1#
77	0.0	11.5	17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.327 ppbv

RT: 16.01 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

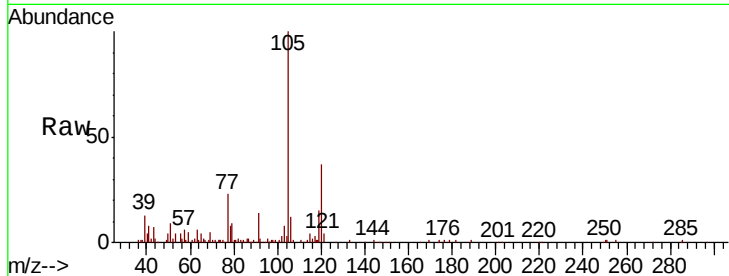
Acq: 27 Apr 2021 23:52

Tot Ion:105 Resp: 131514

Ion Ratio Lower Upper

105 100

120 36.9 36.8 55.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.01

60000

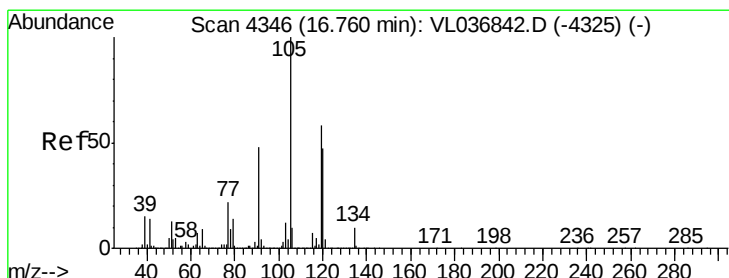
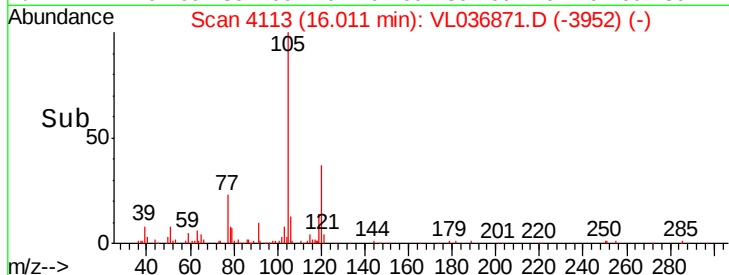
40000

20000

0

15.95 16.00 16.05

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.616 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. 0.01 min

Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

Tgt Ion:105 Resp: 691105

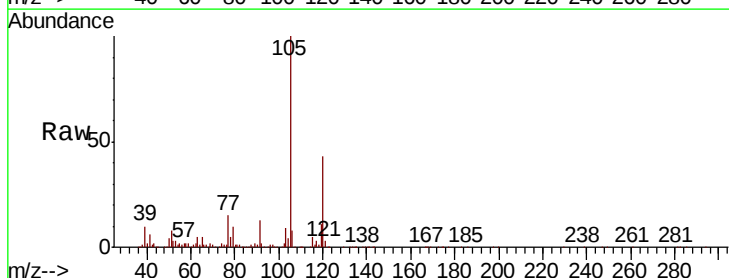
Ion Ratio Lower Upper

105 100

120 43.3 37.6 56.4

91 12.8 39.0 58.4#

77 14.3 17.4 26.0#



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

400000

300000

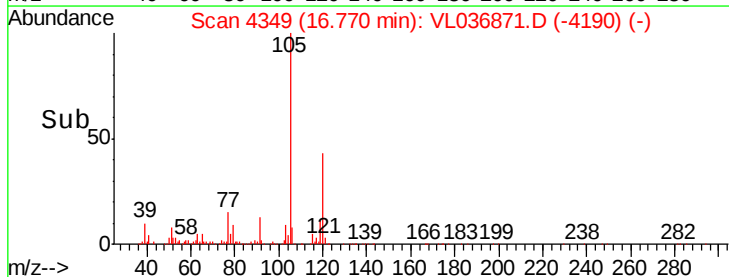
200000

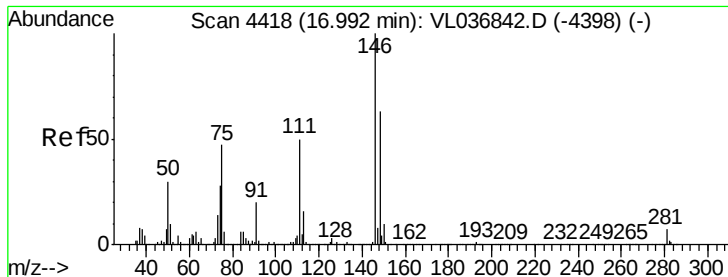
100000

0

16.70 16.80

Time-->





#75

1,3-Dichlorobenzene

Concen: 5.504 ppbv

RT: 17.01 min

Delta R.T. MSVOA_L

Lab File:

Acq: 27 Apr 2021 23:52

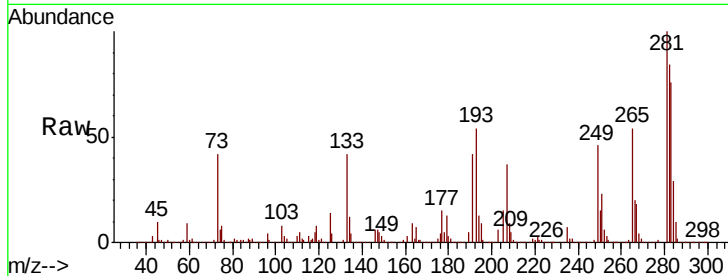
Tot Ion:146 Resp: 1391614

Ion Ratio Lower Upper

146 100

111 134.0 24.2 72.6#

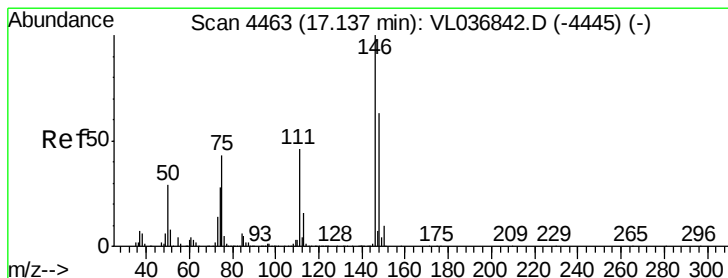
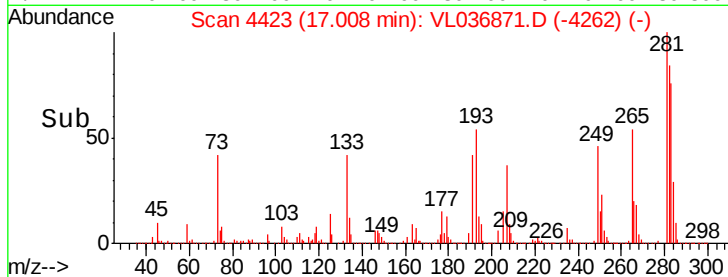
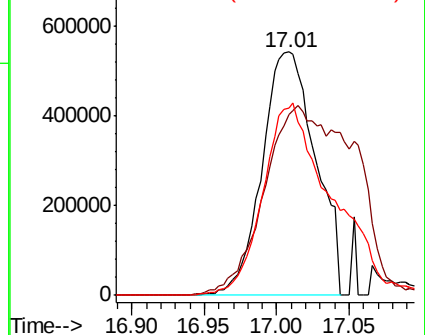
148 105.2 32.1 96.3#



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



#76

1,4-Dichlorobenzene

Concen: 0.188 ppbv

RT: 17.07 min Scan# 4441

Delta R.T. -0.07 min

Lab File: VL036871.D

Acq: 27 Apr 2021 23:52

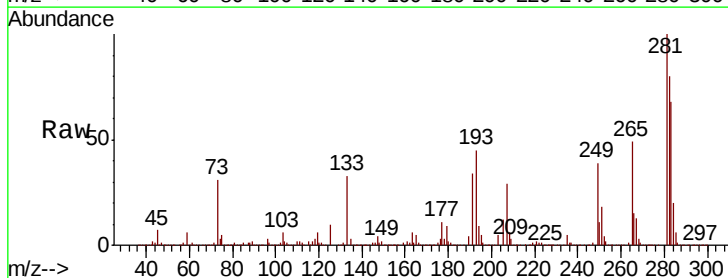
Tgt Ion:146 Resp: 46607

Ion Ratio Lower Upper

146 100

111 0.0 24.3 72.8#

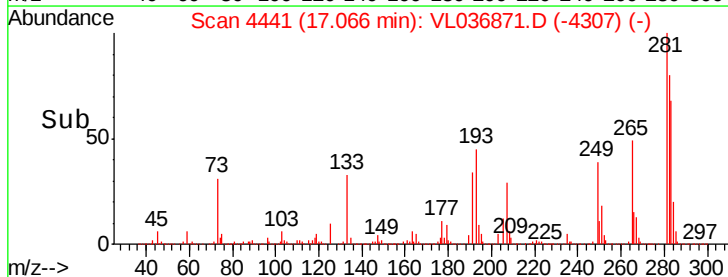
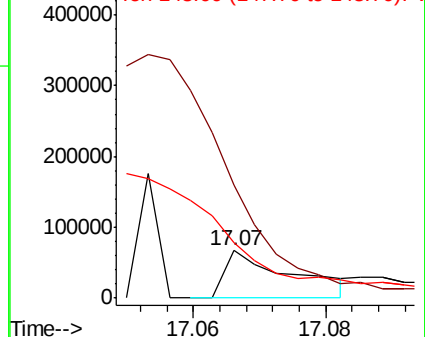
148 0.0 32.4 97.0#

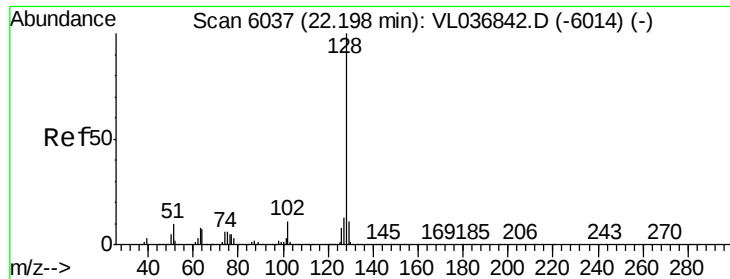


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

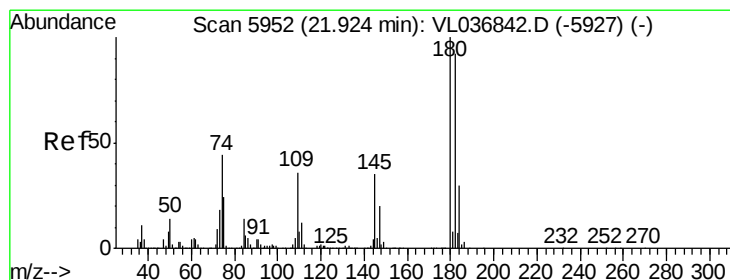
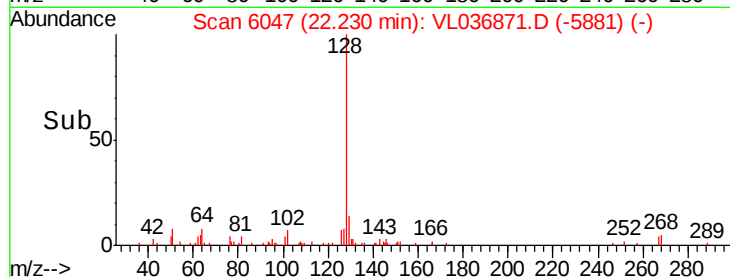
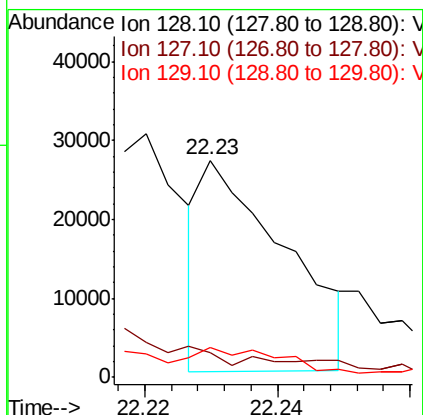
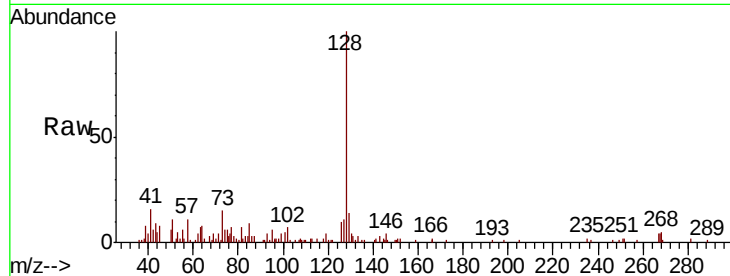
Ion 148.00 (147.70 to 148.70): V





#79
Naphthalene
Concen: 0.099 ppbv
RT: 22.23
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 23:52

Tot Ion	Ratio	Lower	Upper
128	100		
127	5.2	10.6	15.8#
129	17.0	9.0	13.4#



#81
1,2,4-Trichlorobenzene
Concen: 1.650 ppbv
RT: 21.51 min Scan# 5823
Delta R.T. -0.41 min
Lab File: VL036871.D
Acq: 27 Apr 2021 23:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	8.6	80.9	121.3#
184	1.3	25.3	37.9#

