

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039386.D
 Acq On : 28 Jun 2022 9:52
 Operator : SY/AP
 Sample : N3508-04 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV-7-20220624

Quant Time: Jun 29 06:03:31 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1078516	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2881233	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2683722	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1949626	8.79	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.90%	

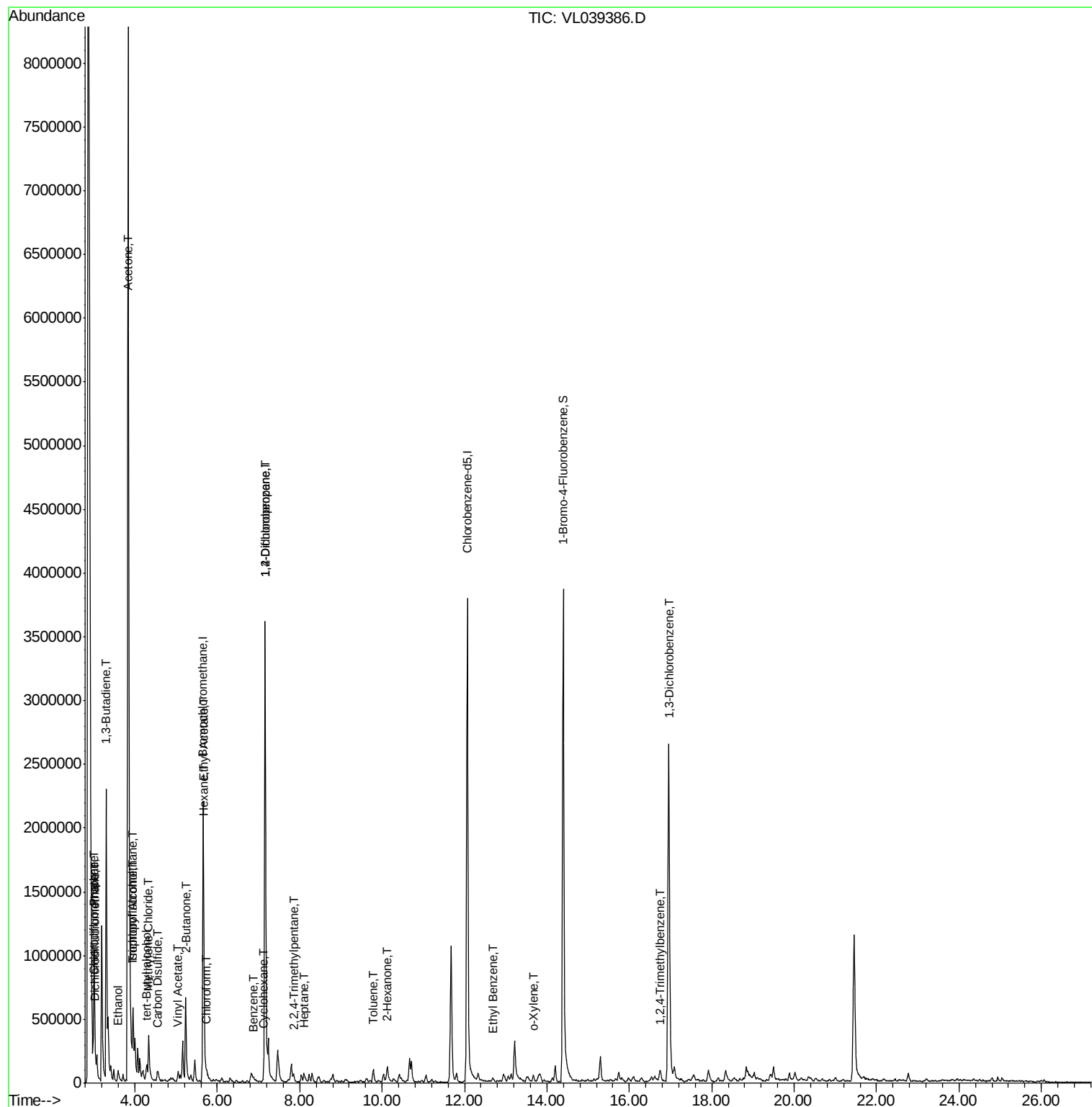
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	22809	0.120	ppbv	91
3) Chlorodifluoromethane	2.98	51	11742	0.086	ppbv #	89
9) Propene	3.01	41	528159	8.827	ppbv	91
10) Heptane	8.10	43	19305	0.138	ppbv #	34
11) Trichlorofluoromethane	3.94	101	12876	0.075	ppbv #	78
13) Ethanol	3.59	45	66007	20.228	ppbv #	100
15) Acetone	3.83	43	11234729	100.000	ppbv	92
16) 1,3-Butadiene	3.30	39	823457	13.635	ppbv #	18
17) tert-Butyl alcohol	4.28	59	47799	0.549	ppbv #	71
19) Isopropyl Alcohol	3.95	45	514849	9.771	ppbv #	93
20) Methylene Chloride	4.33	84	122113	2.579	ppbv	89
23) Vinyl Acetate	5.06	43	10722	0.115	ppbv #	83
25) Ethyl Acetate	5.67	43	64886	0.256	ppbv #	85
26) Hexane	5.67	57	78897	0.709	ppbv #	24
27) Carbon Disulfide	4.54	76	59815	0.519	ppbv #	66
29) Chloroform	5.74	83	25317	0.135	ppbv	93
30) Cyclohexane	7.11	84	3565	0.038	ppbv #	1
34) 2-Butanone	5.23	43	830981	5.309	ppbv	97
36) Benzene	6.88	78	23637	0.101	ppbv #	88
39) 1,2-Dichloropropane	7.16	63	718460	7.722	ppbv #	24
44) 2,2,4-Trimethylpentane	7.85	57	20915	0.051	ppbv #	2
51) 2-Hexanone	10.12	43	62465	0.343	ppbv #	28
53) Toluene	9.78	91	20724	0.077	ppbv #	21
58) Ethyl Benzene	12.69	91	15200	0.041	ppbv	94
60) o-Xylene	13.67	91	23132	0.076	ppbv #	61
74) 1,2,4-Trimethylbenzene	16.73	105	24930	0.069	ppbv #	55
75) 1,3-Dichlorobenzene	16.97	146	32476	0.159	ppbv #	25

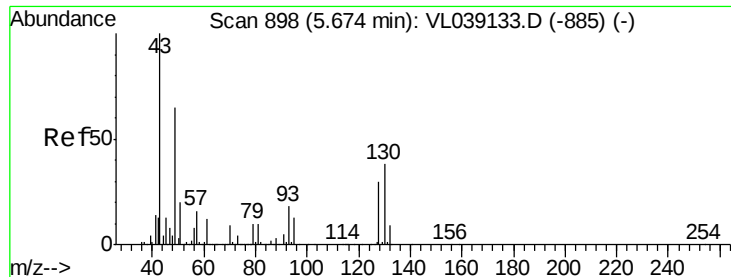
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL039386.D
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Instrument :
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ClientSampleId :
SV-7-20220624

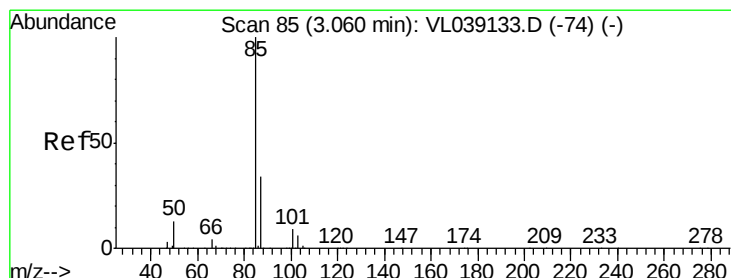
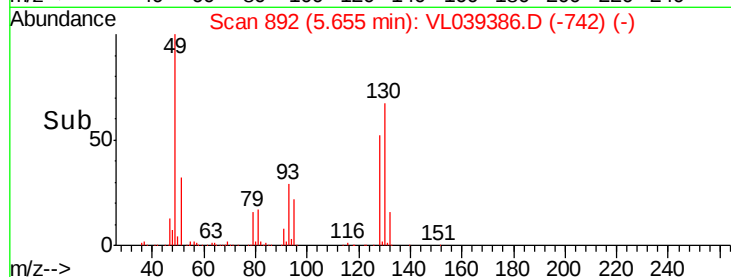
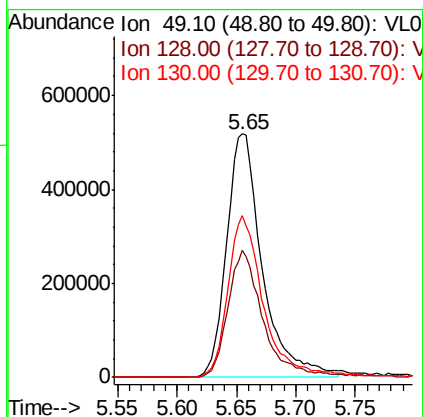
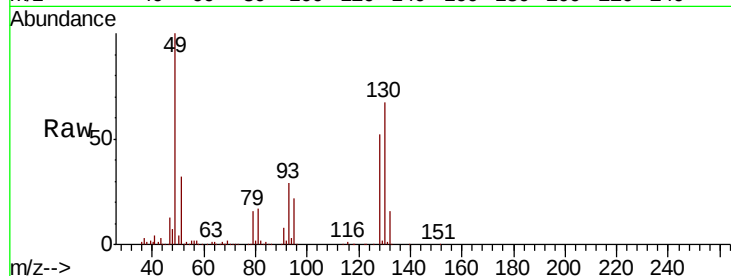
Quant Time: Jun 29 06:03:31 2022
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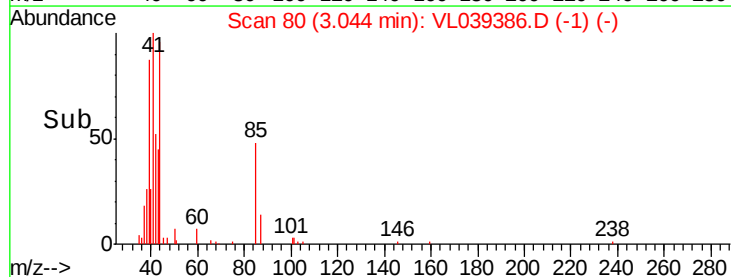
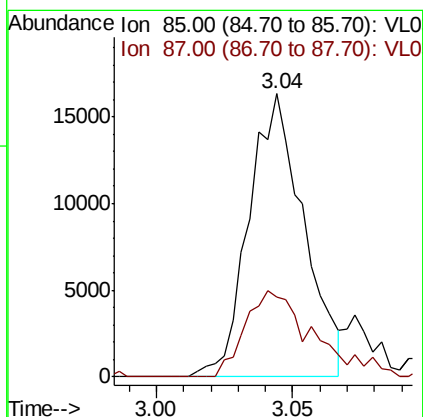
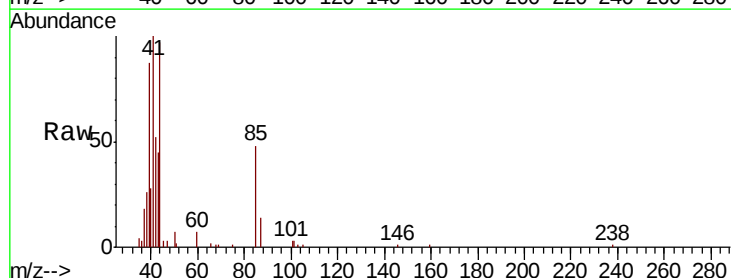
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SV-7-20220624
 Acq: 28 Jun 2022 9:52

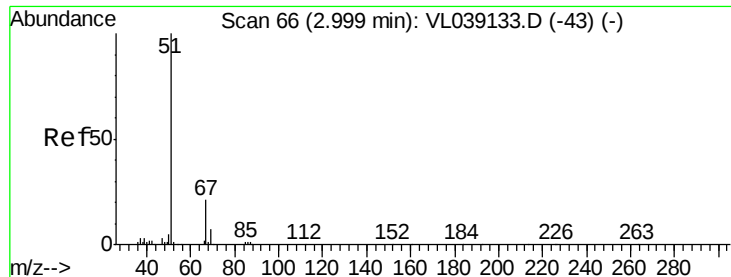
Tot Ion: 49 Resp: 1078516
 Ion Ratio Lower Upper
 49 100
 128 52.9 24.7 74.1
 130 67.3 31.4 94.0



#2
 Dichlorodifluoromethane
 Concen: 0.120 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.02 min
 Lab File: VL039386.D
 Acq: 28 Jun 2022 9:52

Tgt Ion: 85 Resp: 22809
 Ion Ratio Lower Upper
 85 100
 87 28.2 26.9 40.3





#3

Chlorodifluoromethane

Concen: 0.086 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-7-20220624

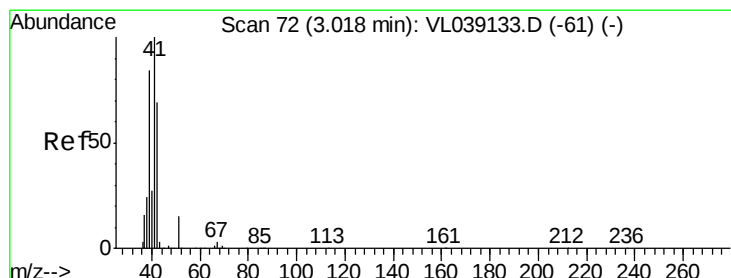
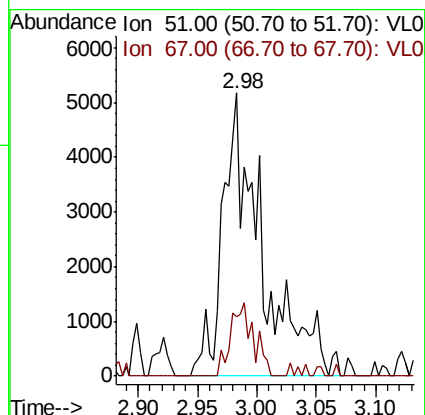
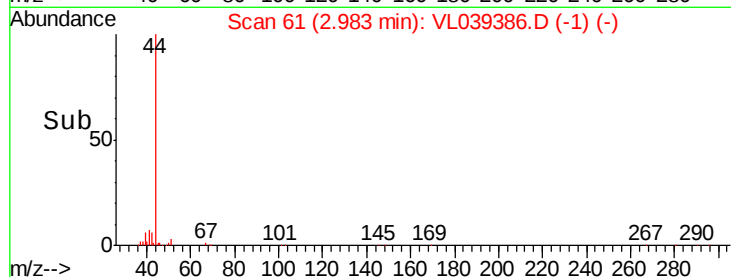
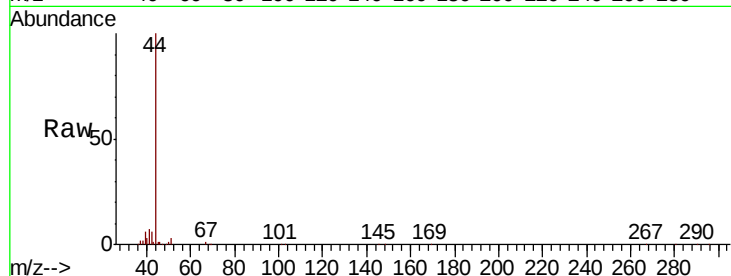
Acq: 28 Jun 2022 9:52

Tot Ion: 51 Resp: 11742

Ion Ratio Lower Upper

51 100

67 15.3 16.2 24.4#



#9

Propene

Concen: 8.827 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL039386.D

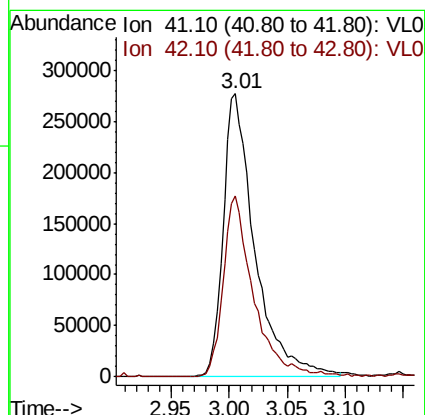
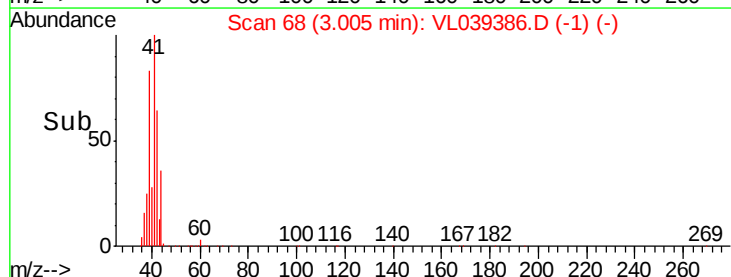
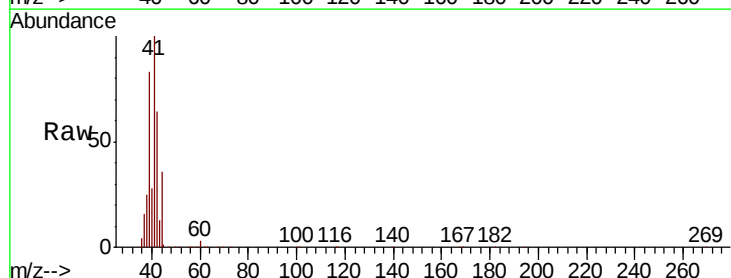
Acq: 28 Jun 2022 9:52

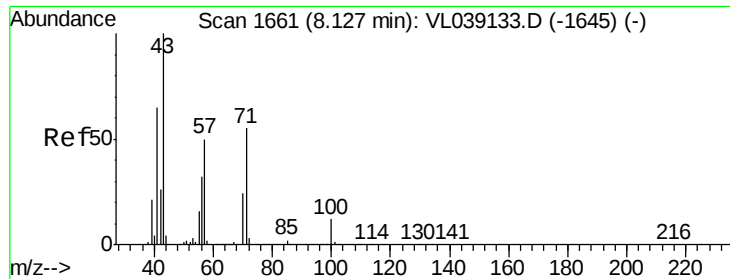
Tgt Ion: 41 Resp: 528159

Ion Ratio Lower Upper

41 100

42 61.6 55.4 83.2





#10

Heptane

Concen: 0.138 ppbv

RT: 8.10 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

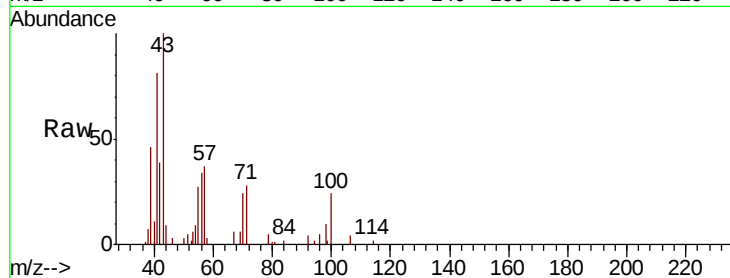
Acq: 28 Jun 2022 9:52 SV-7-20220624

Tot Ion: 43 Resp: 19305

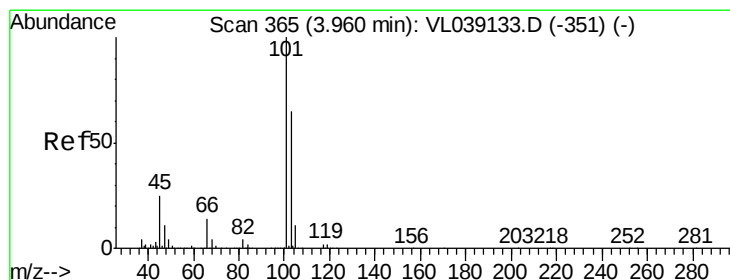
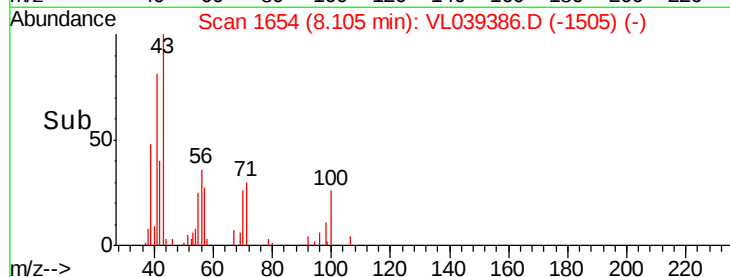
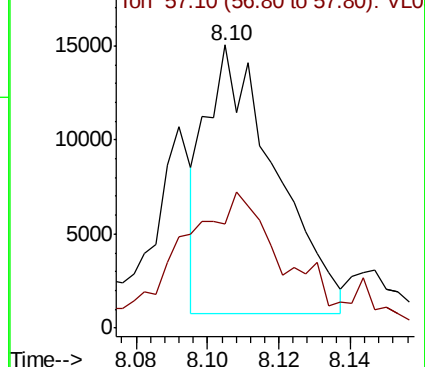
Ion Ratio Lower Upper

43 100

57 98.0 41.4 62.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0



#11

Trichlorofluoromethane

Concen: 0.075 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.02 min

Lab File: VL039386.D

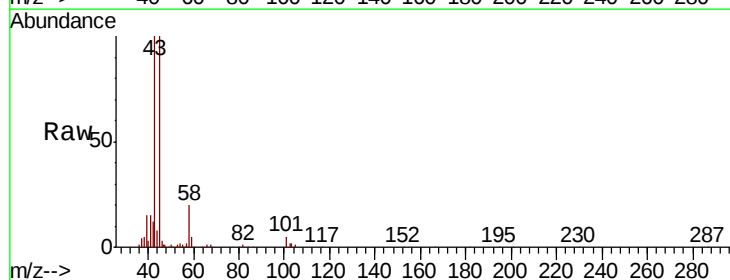
Acq: 28 Jun 2022 9:52

Tgt Ion: 101 Resp: 12876

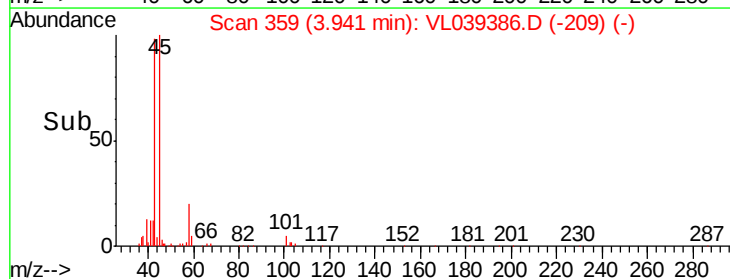
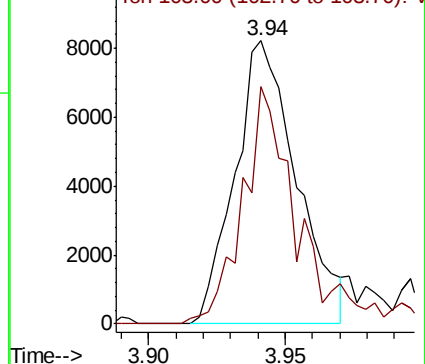
Ion Ratio Lower Upper

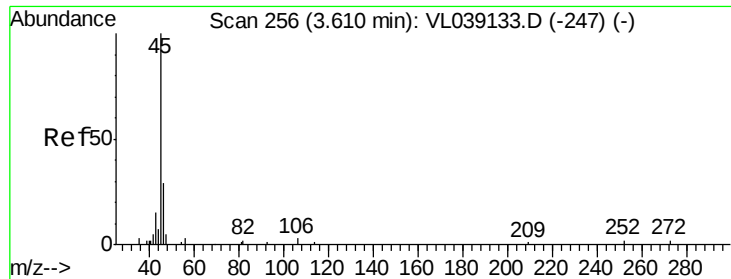
101 100

103 81.6 51.7 77.5#



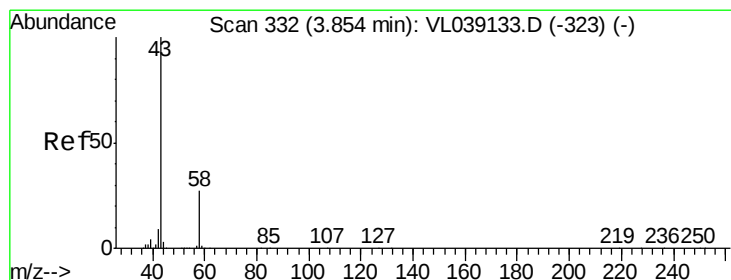
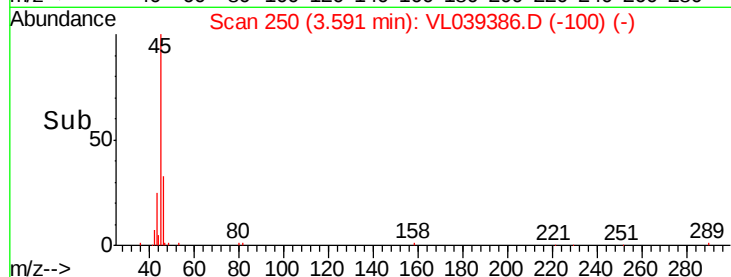
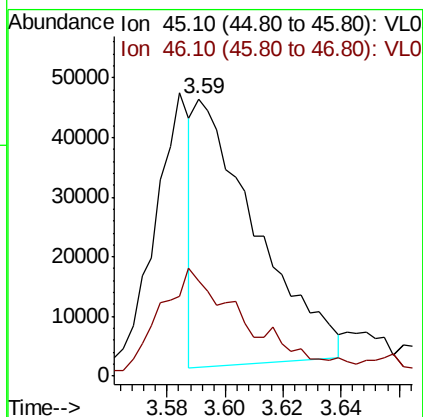
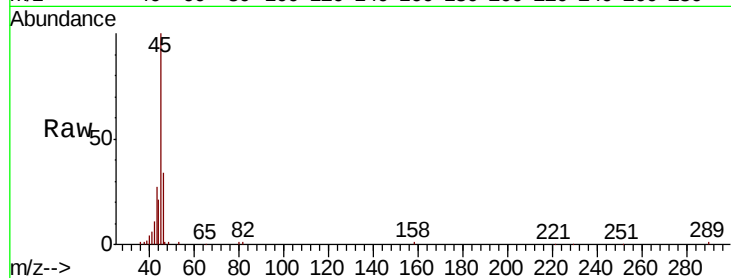
Abundance Ion 101.00 (100.70 to 101.70): V





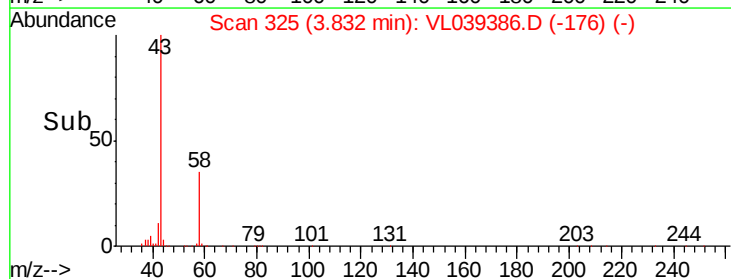
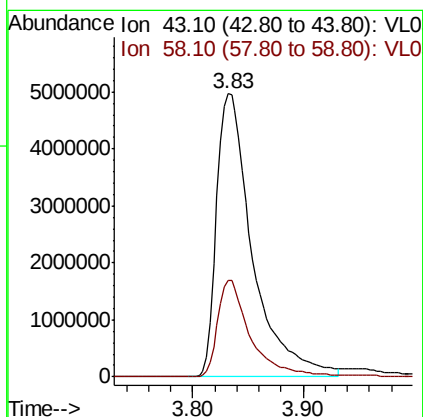
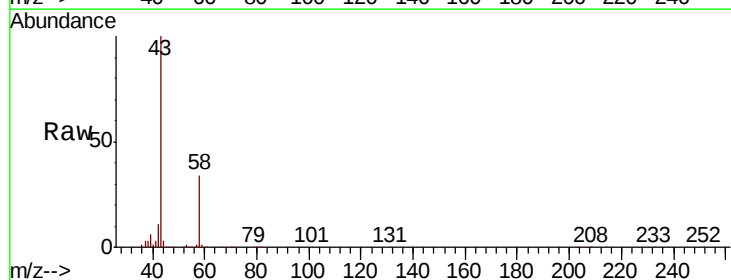
#13
Ethanol
Concen: 20.228 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-7-20220624
Acq: 28 Jun 2022 9:52

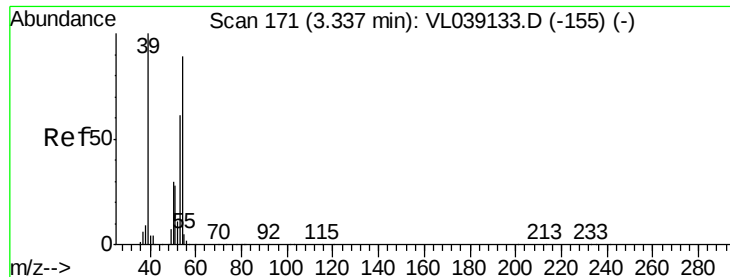
Tot Ion: 45 Resp: 66007
Ion Ratio Lower Upper
45 100
46 69.0 0.0 0.0#



#15
Acetone
Concen: 100.000 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL039386.D
Acq: 28 Jun 2022 9:52

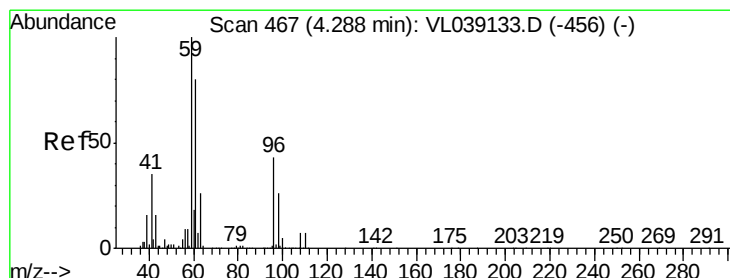
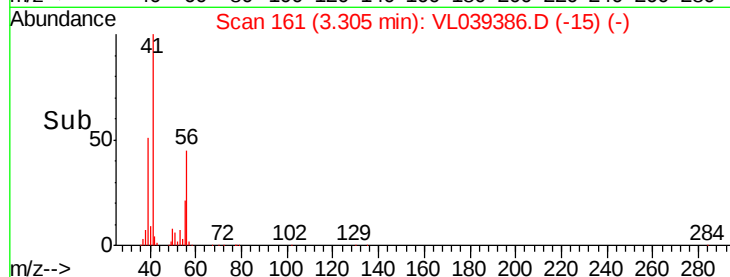
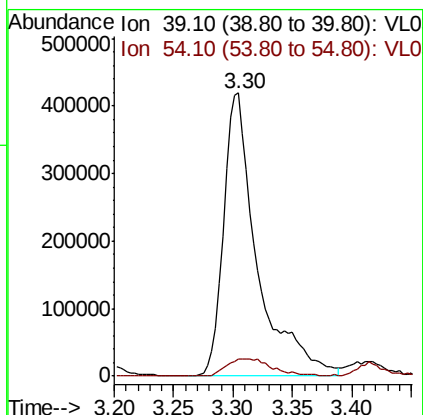
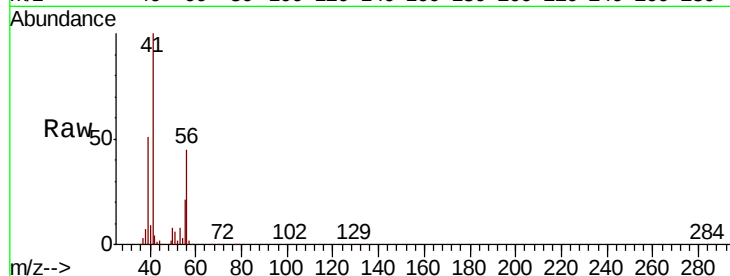
Tgt Ion: 43 Resp: 11234729
Ion Ratio Lower Upper
43 100
58 32.1 22.5 33.7





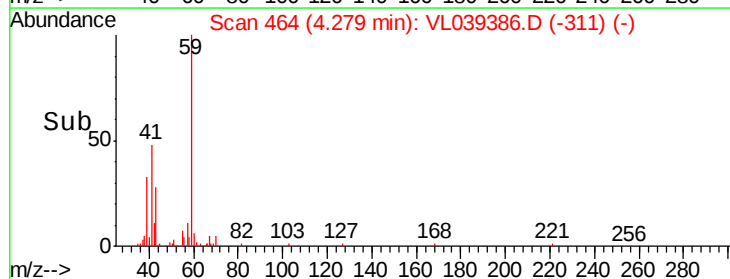
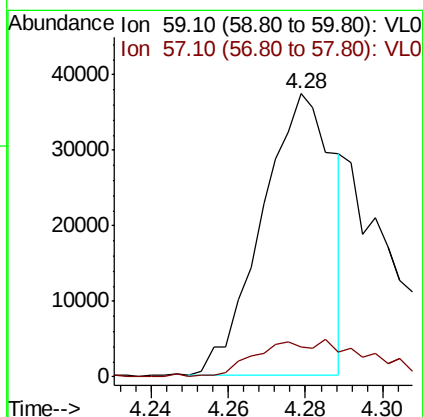
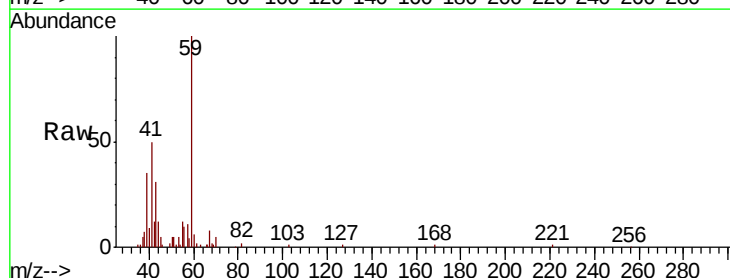
#16
 1,3-Butadiene
 Concen: 13.635 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-7-20220624
 Acq: 28 Jun 2022 9:52

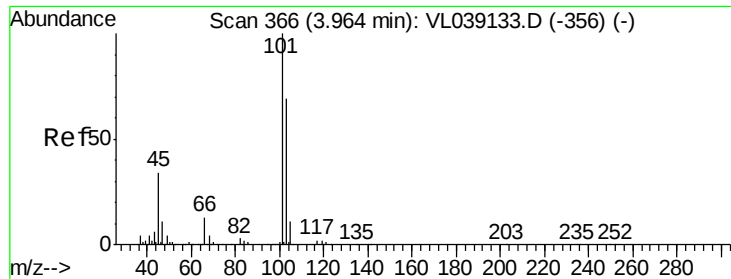
Tot Ion: 39 Resp: 823457
 Ion Ratio Lower Upper
 39 100
 54 8.4 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.549 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. -0.01 min
 Lab File: VL039386.D
 Acq: 28 Jun 2022 9:52

Tgt Ion: 59 Resp: 47799
 Ion Ratio Lower Upper
 59 100
 57 22.5 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 9.771 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

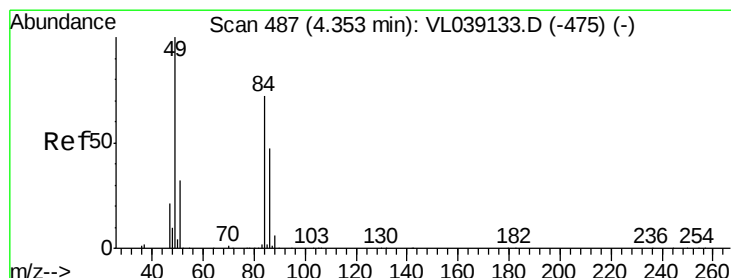
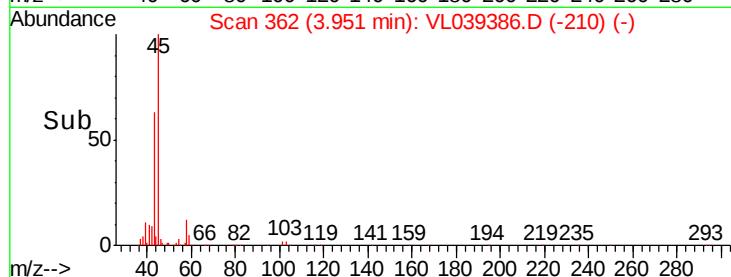
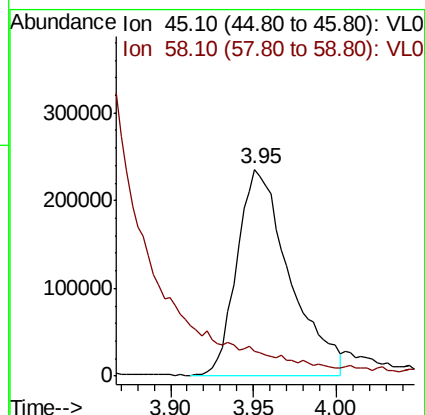
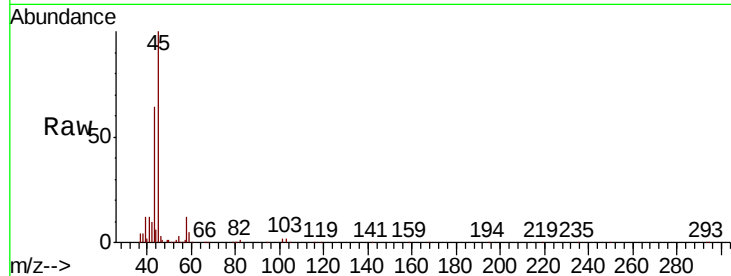
Acq: 28 Jun 2022 9:52 SV-7-20220624

Tot Ion: 45 Resp: 514849

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 2.579 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL039386.D

Acq: 28 Jun 2022 9:52

Tgt Ion: 84 Resp: 122113

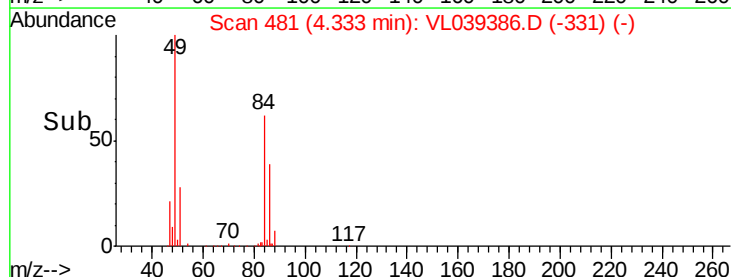
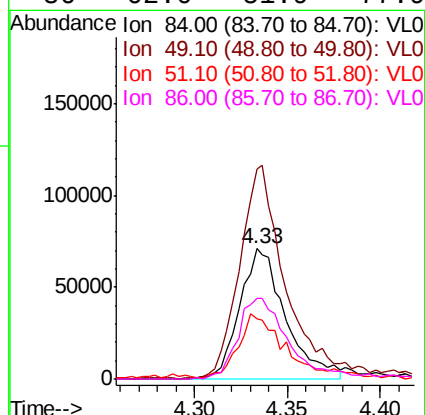
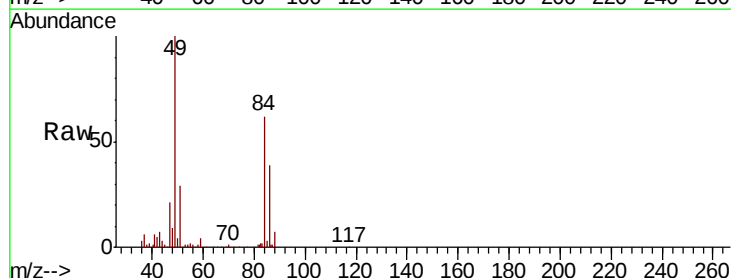
Ion Ratio Lower Upper

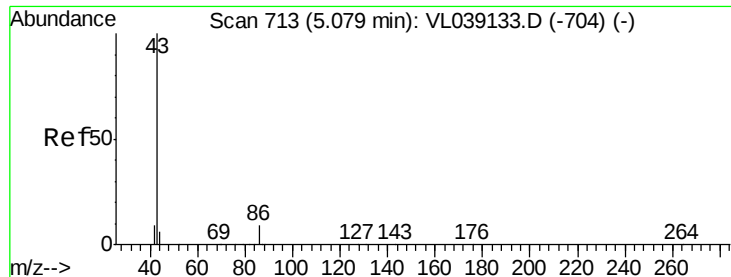
84 100

49 159.5 111.1 166.7

51 43.2 35.3 52.9

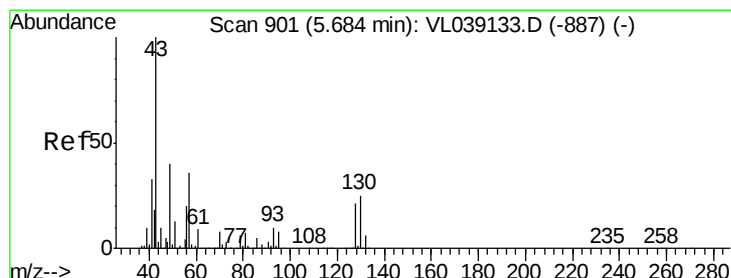
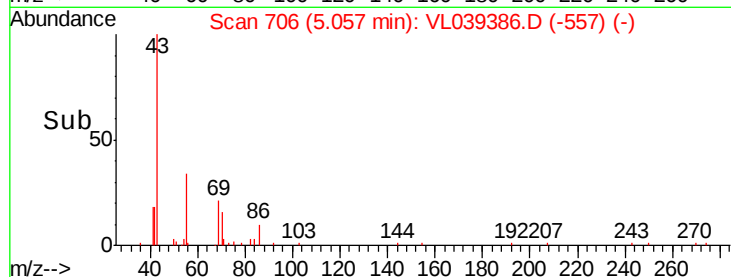
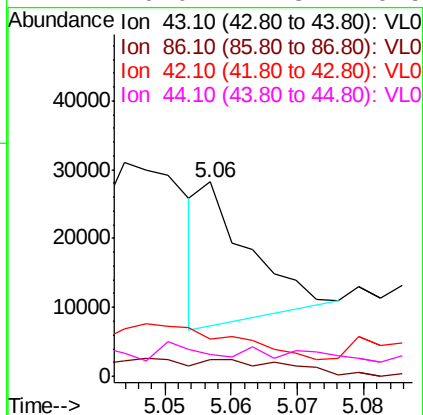
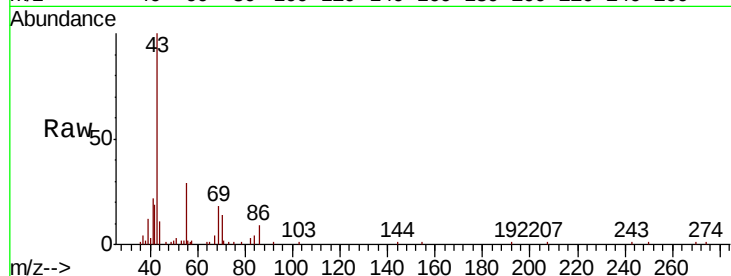
86 62.0 51.9 77.9





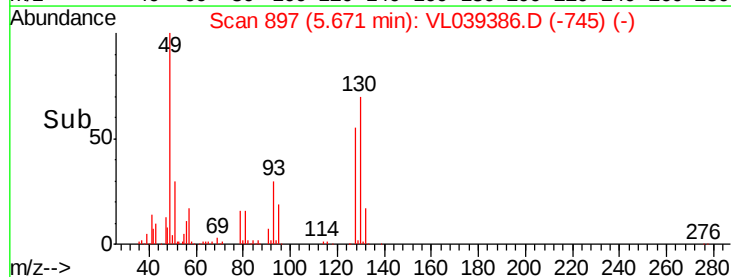
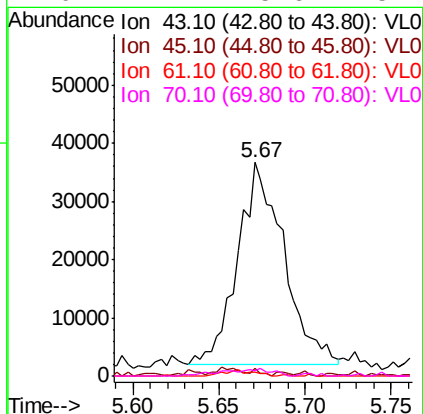
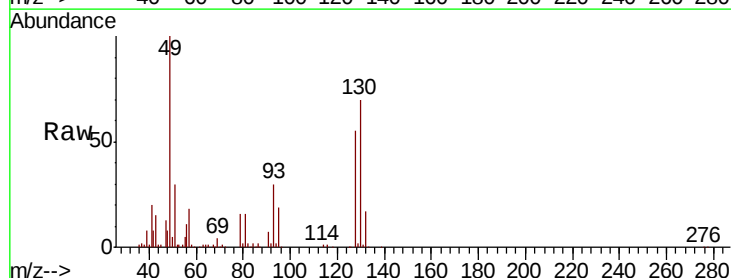
#23
 Vinyl Acetate
 Concen: 0.115 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 9:52

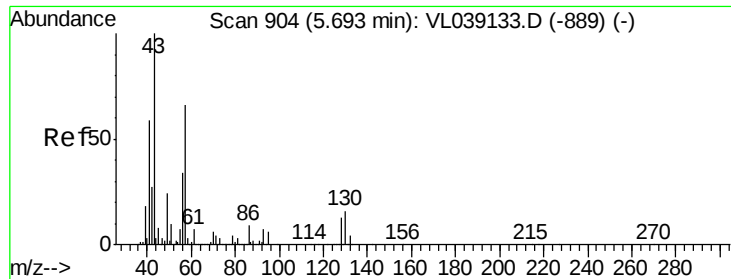
Tot Ion:	43	Resp:	10722
Ion	Ratio	Lower	Upper
43	100		
86	13.3	6.0	9.0#
42	16.5	8.2	12.4#
44	0.0	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.256 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: VL039386.D
 Acq: 28 Jun 2022 9:52

Tgt Ion:	43	Resp:	64886
Ion	Ratio	Lower	Upper
43	100		
45	5.0	8.2	12.2#
61	2.2	8.4	12.6#
70	4.4	5.6	8.4#





#26

Hexane

Concen: 0.709 ppbv

RT: 5.67

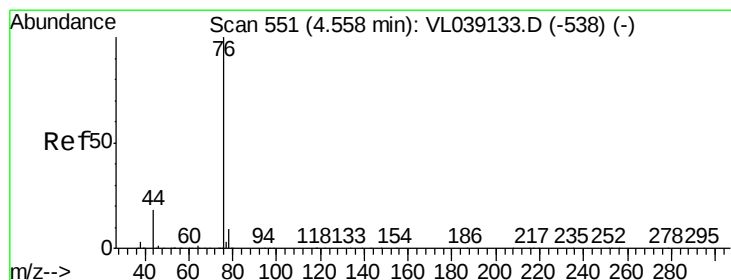
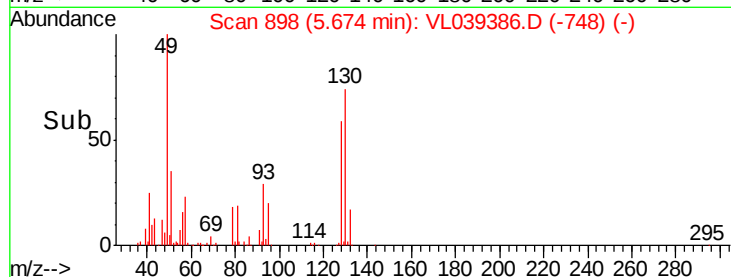
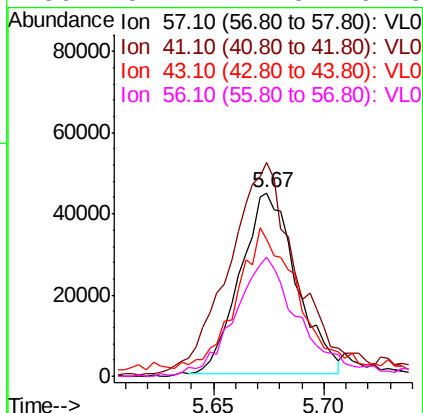
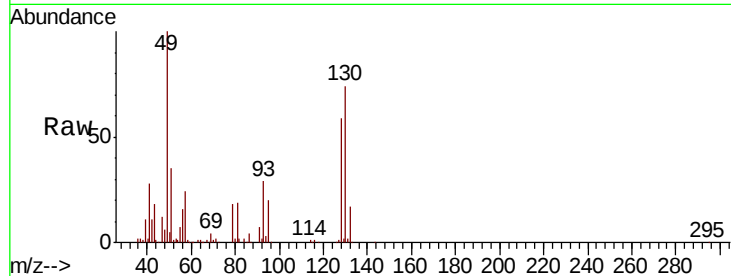
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 9:52

Tot Ion: 57 Resp: 78897

Ion	Ratio	Lower	Upper
57	100		
41	159.7	72.4	108.6#
43	91.1	187.0	280.6#
56	81.4	41.8	62.6#



#27

Carbon Disulfide

Concen: 0.519 ppbv

RT: 4.54 min Scan# 546

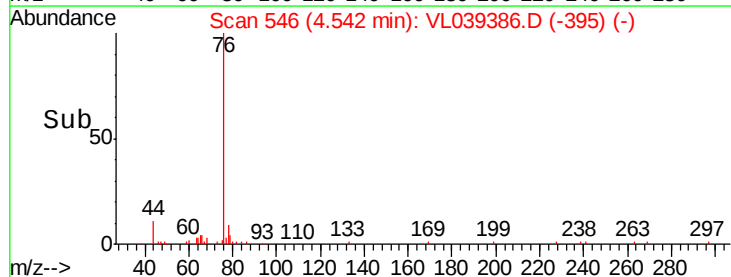
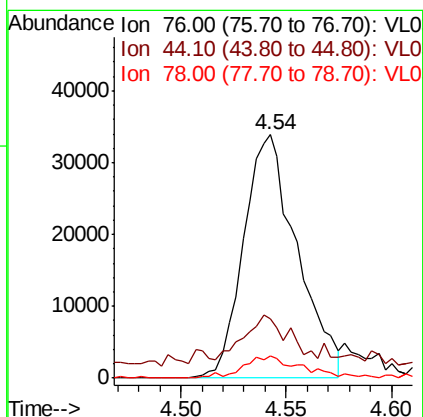
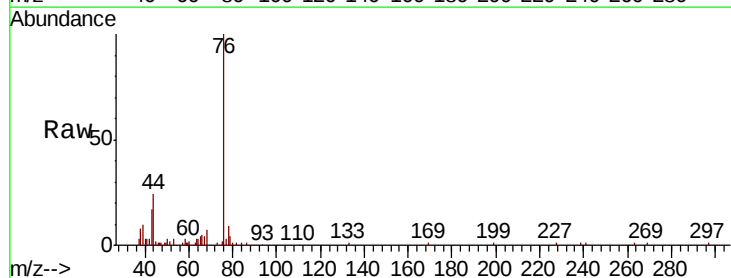
Delta R.T. -0.02 min

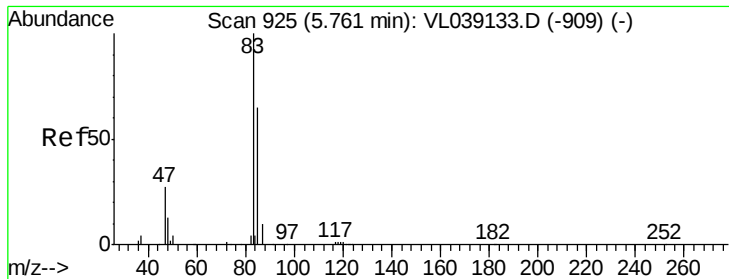
Lab File: VL039386.D

Acq: 28 Jun 2022 9:52

Tgt Ion: 76 Resp: 59815

Ion	Ratio	Lower	Upper
76	100		
44	40.6	14.4	21.6#
78	10.4	7.7	11.5





#29

Chloroform

Concen: 0.135 ppbv

RT: 5.74 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

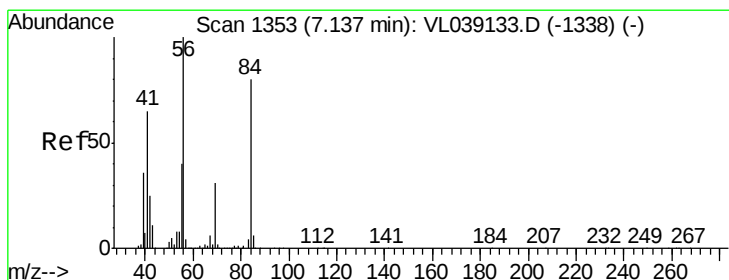
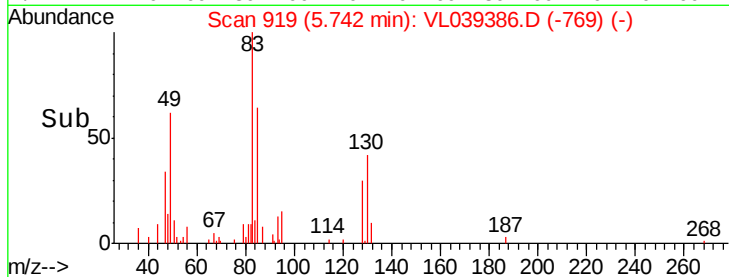
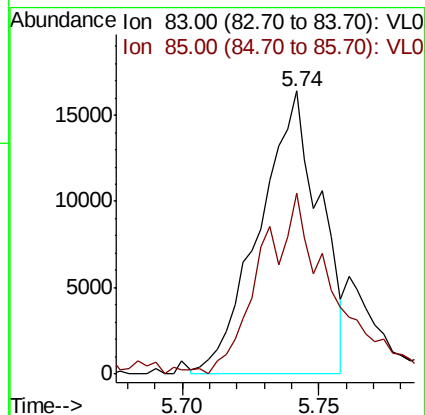
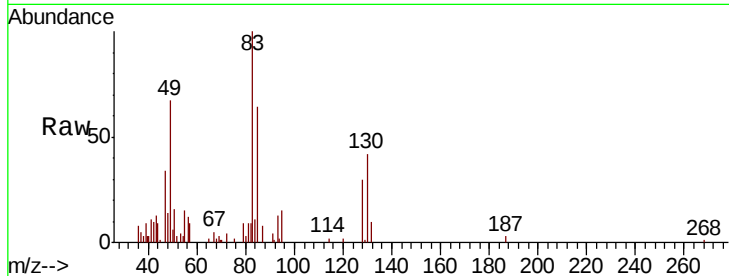
Acq: 28 Jun 2022 9:52

Tot Ion: 83 Resp: 25317

Ion Ratio Lower Upper

83 100

85 59.6 52.4 78.6



#30

Cyclohexane

Concen: 0.038 ppbv

RT: 7.11 min Scan# 1346

Delta R.T. -0.02 min

Lab File: VL039386.D

Acq: 28 Jun 2022 9:52

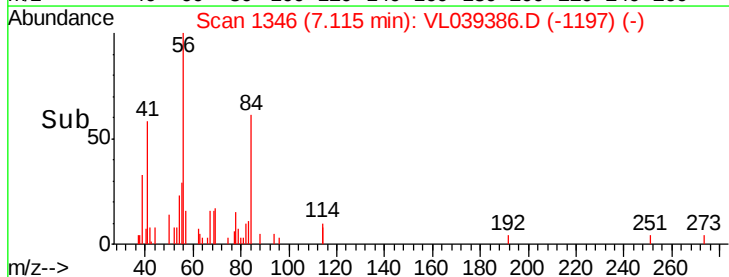
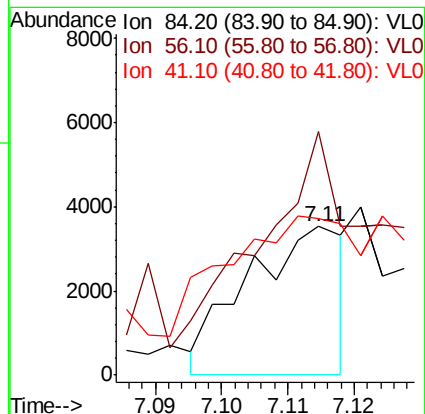
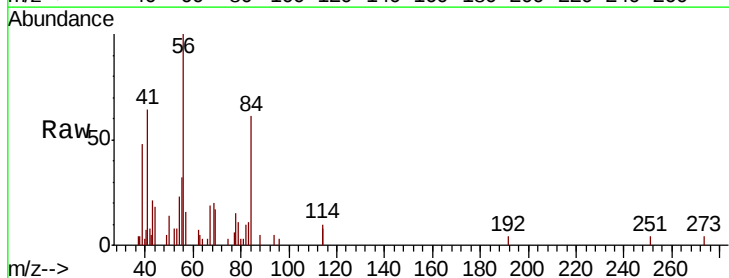
Tgt Ion: 84 Resp: 3565

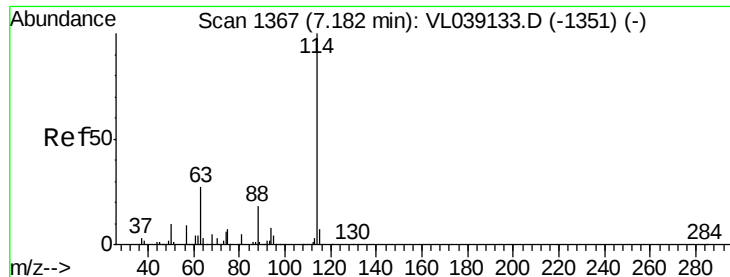
Ion Ratio Lower Upper

84 100

56 0.0 110.6 165.8#

41 435.5 68.9 103.3#

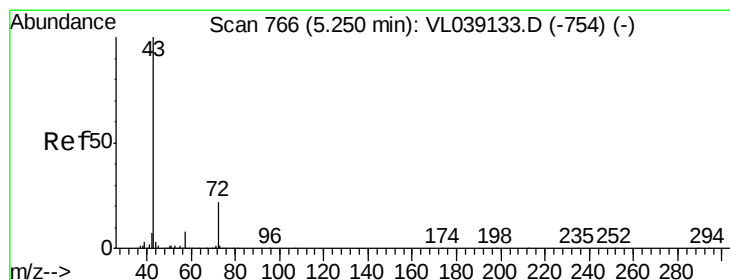
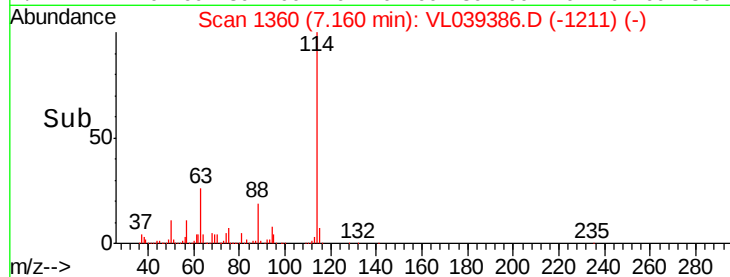
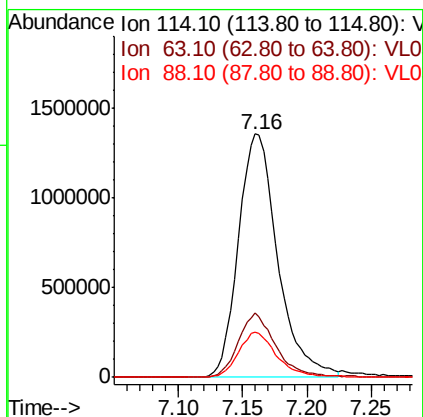
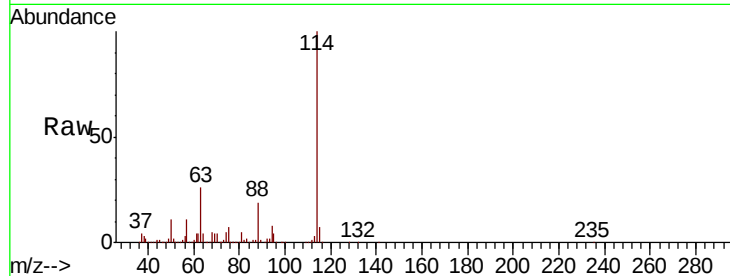




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-7-20220624
 Acq: 28 Jun 2022 9:52

Tot Ion:114 Resp: 2881233

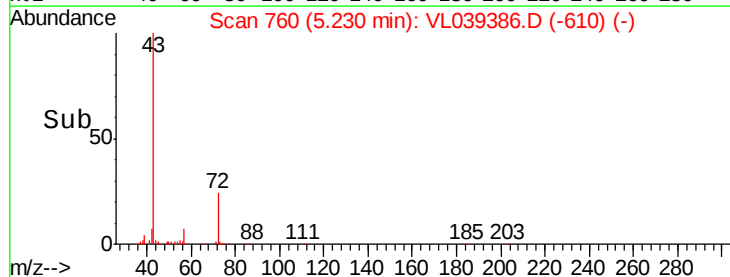
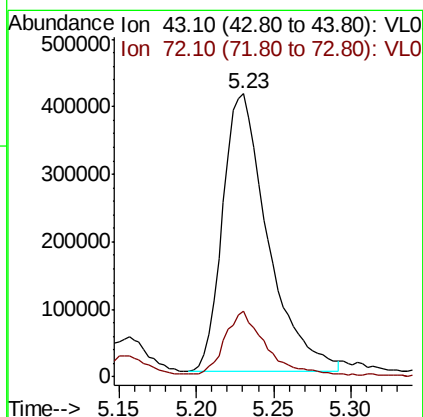
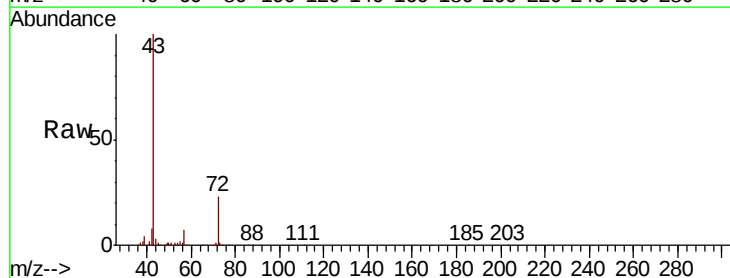
Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.7	32.5
88	18.4	14.8	22.2

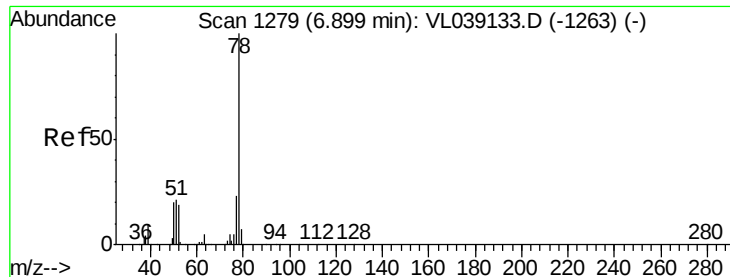


#34
 2-Butanone
 Concen: 5.309 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL039386.D
 Acq: 28 Jun 2022 9:52

Tgt Ion: 43 Resp: 830981

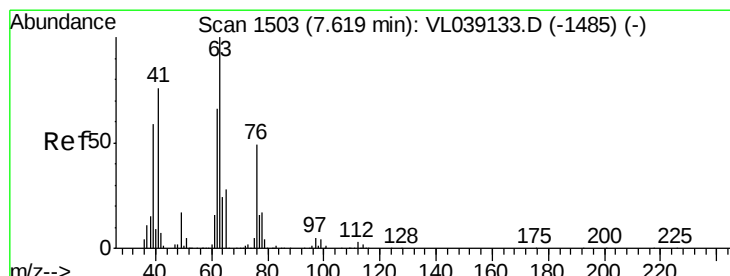
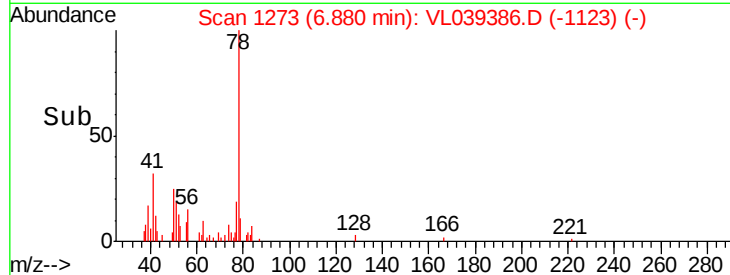
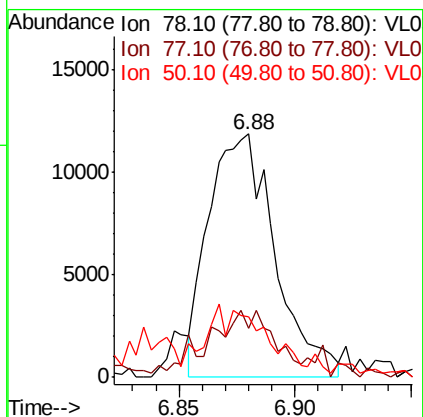
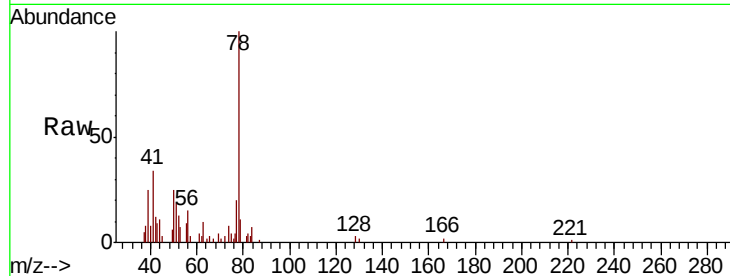
Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.2	27.2





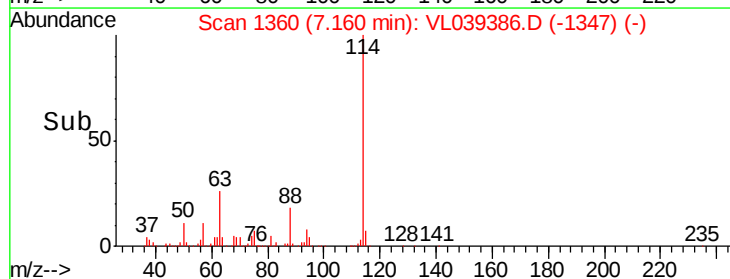
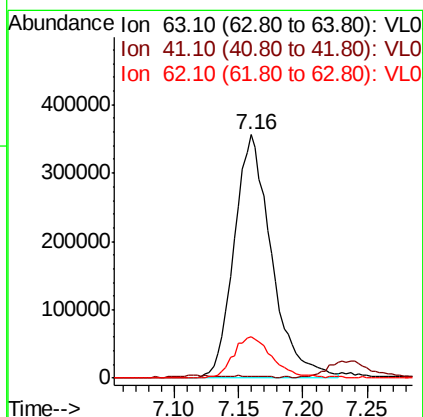
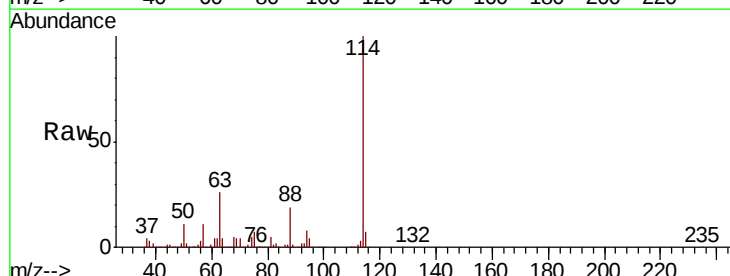
#36
Benzene
Concen: 0.101 ppbv
RT: 6.88
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV-7-20220624
Acq: 28 Jun 2022 9:52

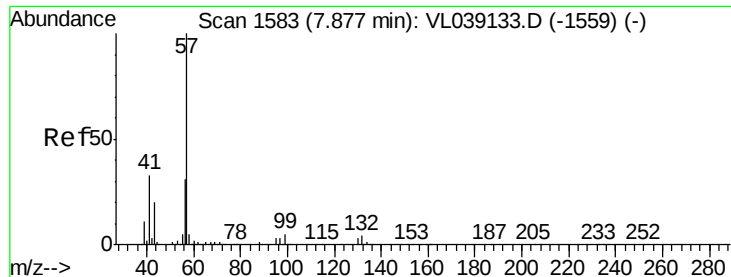
Tot Ion	78	Resp	23637
Ion Ratio	Lower	Upper	
78	100		
77	13.4	18.6	27.8#
50	18.3	15.8	23.8



#39
1,2-Dichloropropane
Concen: 7.722 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.46 min
Lab File: VL039386.D
Acq: 28 Jun 2022 9:52

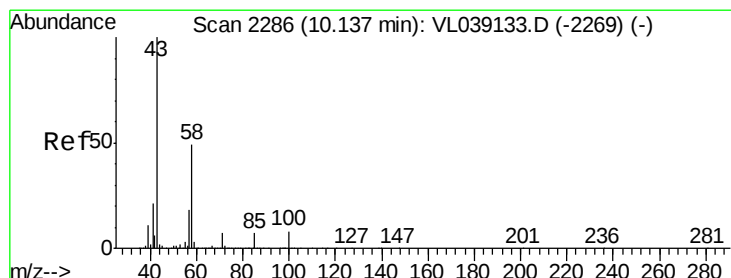
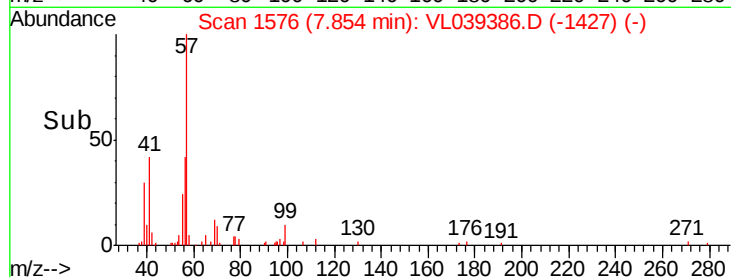
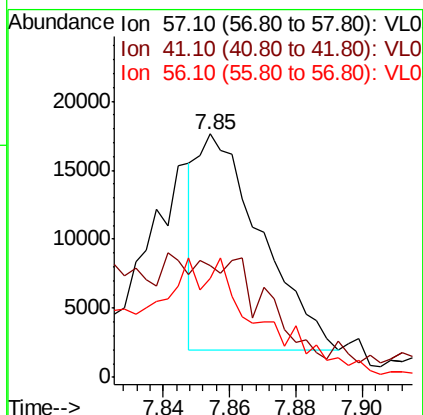
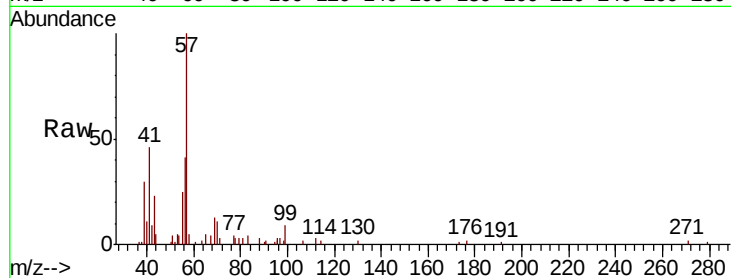
Tgt Ion	63	Resp	718460
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	17.2	52.9	79.3#





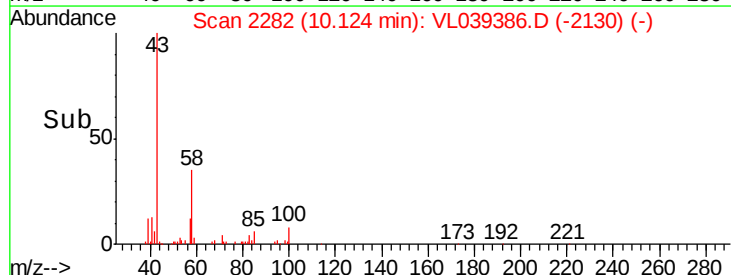
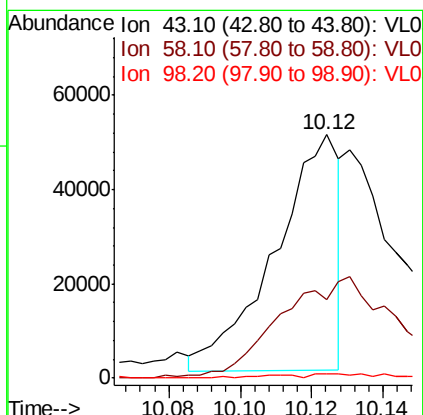
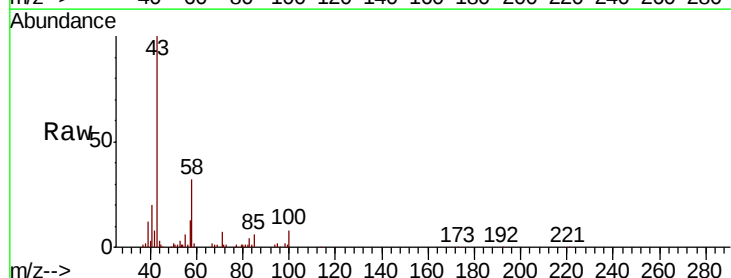
#44
2,2,4-Trimethylpentane
Concen: 0.051 ppbv
RT: 7.85 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 9:52

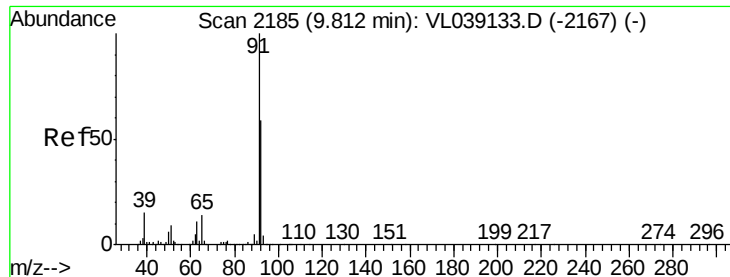
Tot Ion: 57 Resp: 20915
Ion Ratio Lower Upper
57 100
41 88.4 26.2 39.4#
56 84.7 24.7 37.1#



#51
2-Hexanone
Concen: 0.343 ppbv
RT: 10.12 min Scan# 2282
Delta R.T. -0.01 min
Lab File: VL039386.D
Acq: 28 Jun 2022 9:52

Tgt Ion: 43 Resp: 62465
Ion Ratio Lower Upper
43 100
58 0.0 40.0 60.0#
98 3.7 0.1 0.1#





#53

Toluene

Concen: 0.077 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

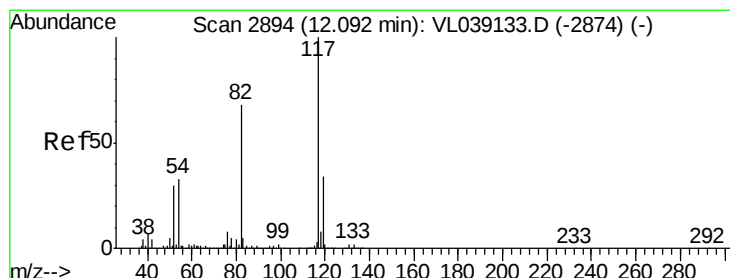
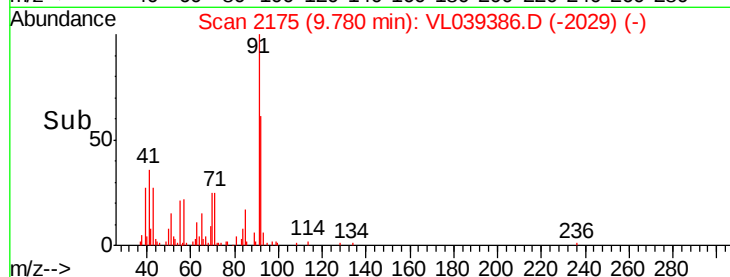
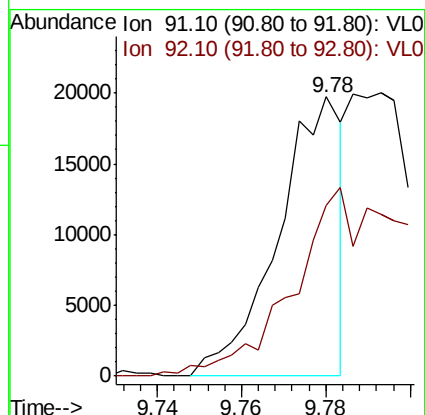
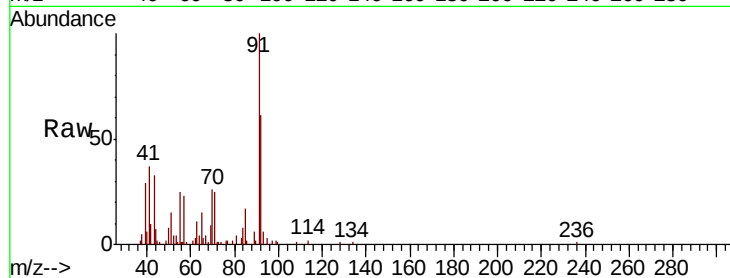
Acq: 28 Jun 2022 9:52 SV-7-20220624

Tot Ion: 91 Resp: 20724

Ion Ratio Lower Upper

91 100

92 0.0 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL039386.D

Acq: 28 Jun 2022 9:52

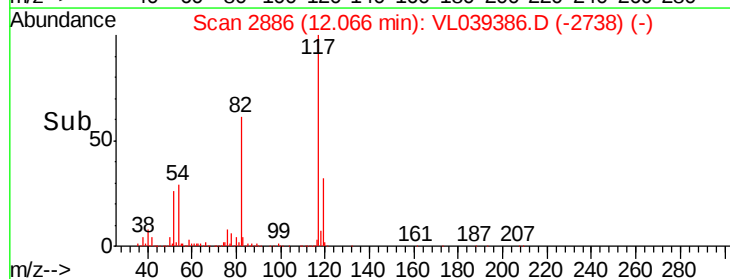
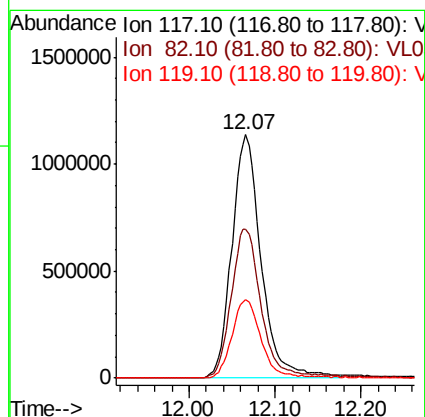
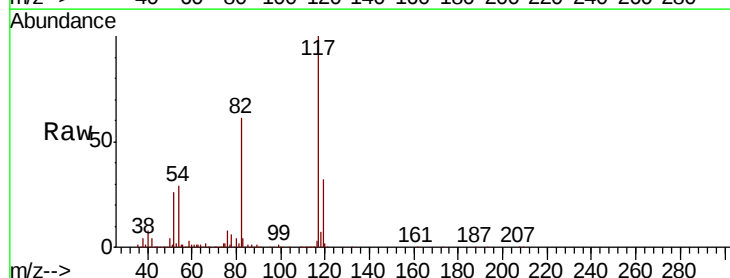
Tgt Ion: 117 Resp: 2683722

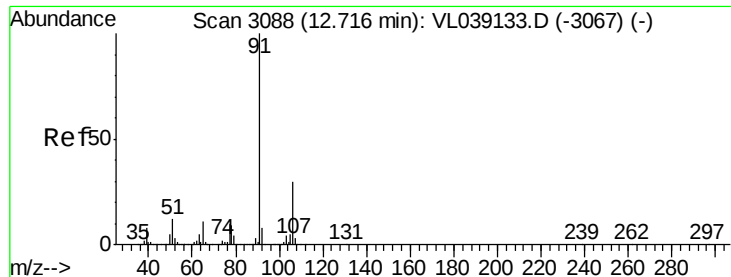
Ion Ratio Lower Upper

117 100

82 64.4 55.1 82.7

119 33.1 24.7 37.1





#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

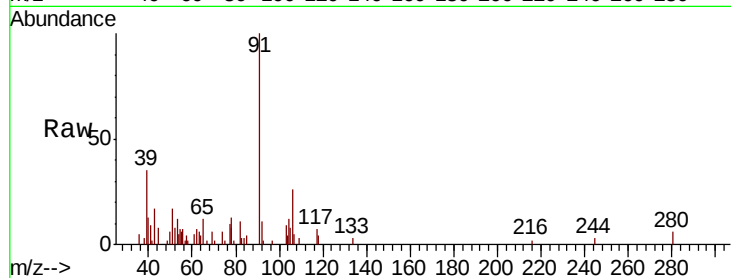
Acq: 28 Jun 2022 9:52

Tot Ion: 91 Resp: 15200

Ion Ratio Lower Upper

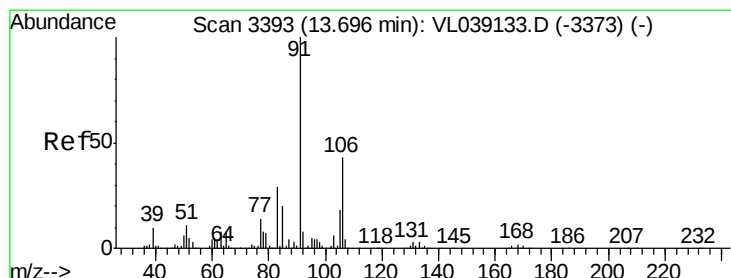
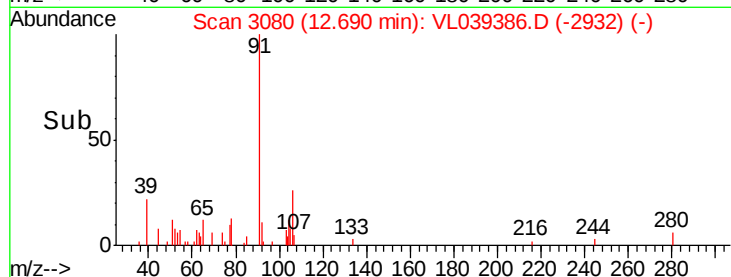
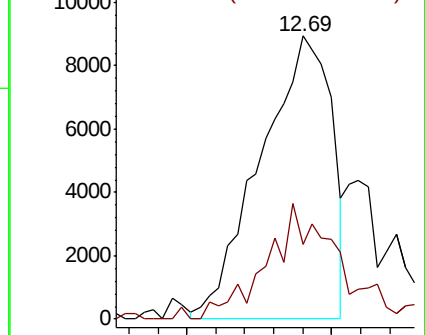
91 100

106 27.0 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.076 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. -0.02 min

Lab File: VL039386.D

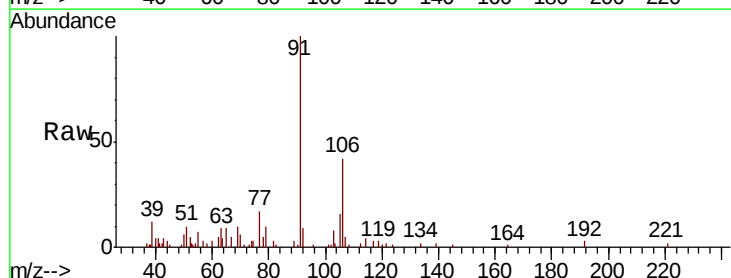
Acq: 28 Jun 2022 9:52

Tgt Ion: 91 Resp: 23132

Ion Ratio Lower Upper

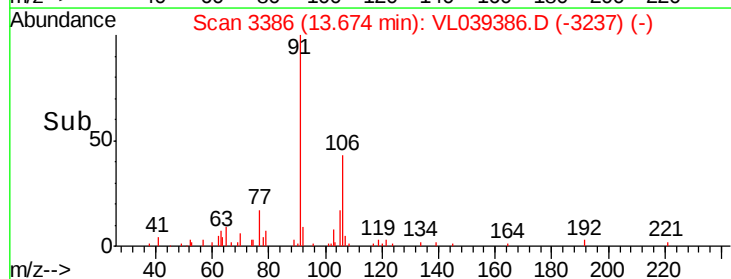
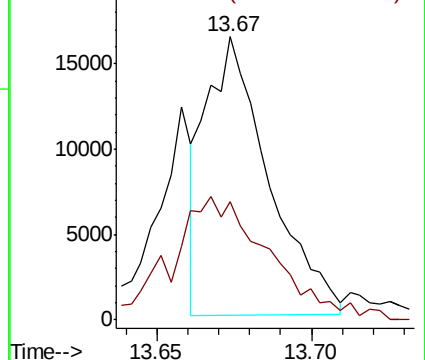
91 100

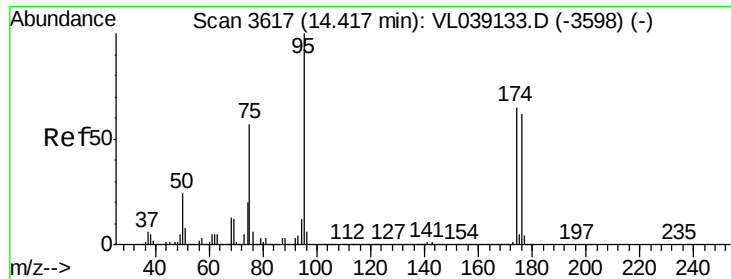
106 69.9 22.3 66.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 8.787 ppbv

RT: 14.39

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 9:52

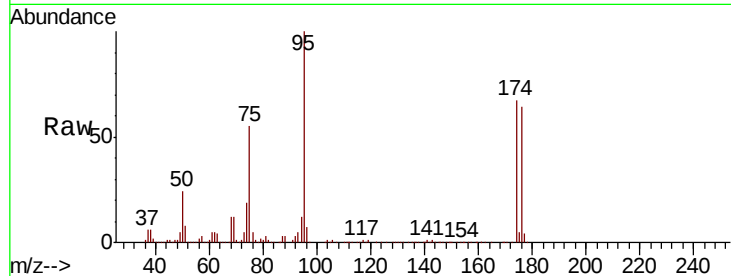
Tot Ion: 95 Resp: 1949626

Ion Ratio Lower Upper

95 100

174 72.8 53.8 80.8

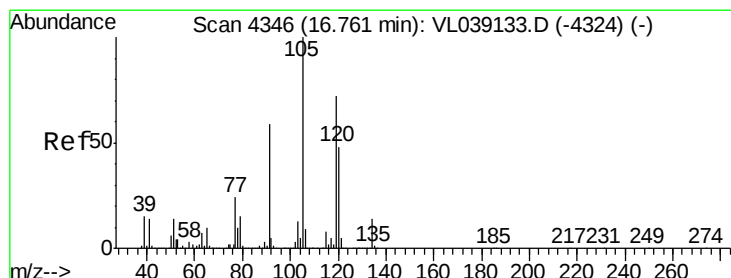
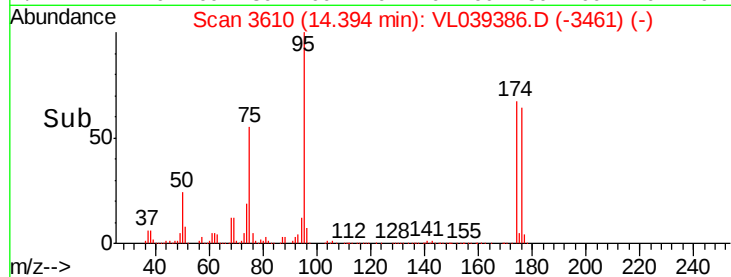
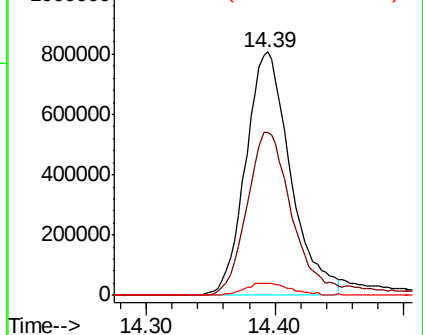
175 5.6 4.1 6.1



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



#74

1,2,4-Trimethylbenzene

Concen: 0.069 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.03 min

Lab File: VL039386.D

Acq: 28 Jun 2022 9:52

Tgt Ion: 105 Resp: 24930

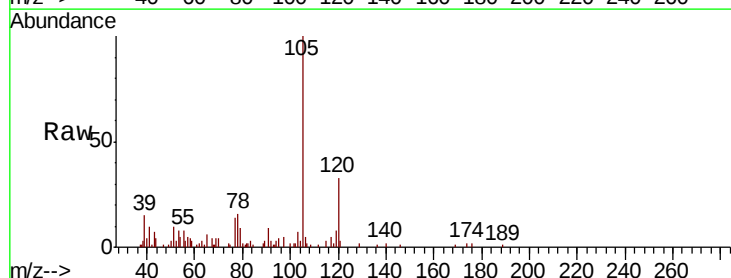
Ion Ratio Lower Upper

105 100

120 31.1 38.1 57.1#

91 5.8 47.4 71.0#

77 12.8 19.5 29.3#

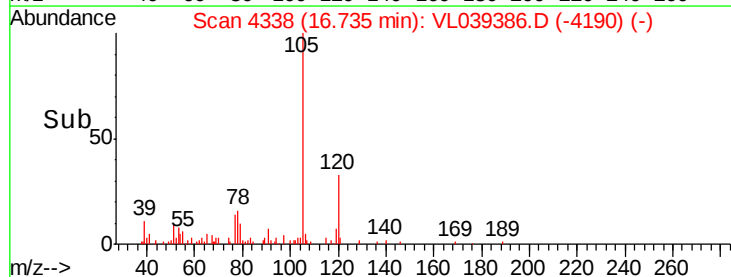
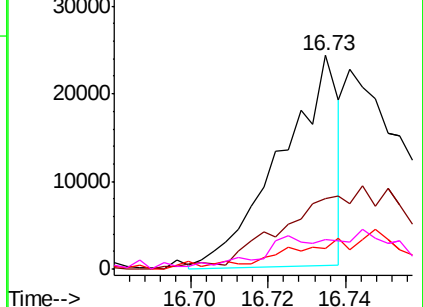


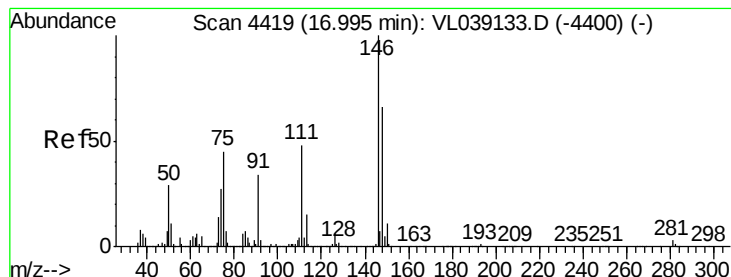
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.159 ppbv

RT: 16.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 9:32

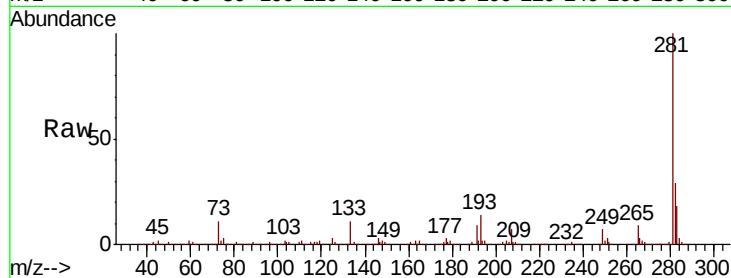
Tot Ion:146 Resp: 32476

Ion Ratio Lower Upper

146 100

111 117.7 23.8 71.4#

148 107.3 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

