

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071922\
 Data File : VL039492.D
 Acq On : 19 Jul 2022 22:00
 Operator : SY/AP
 Sample : N3750-04DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV-4DL

Quant Time: Jul 20 05:40:16 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1273813	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3553695	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.10	117	3168677	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2370870	10.09	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

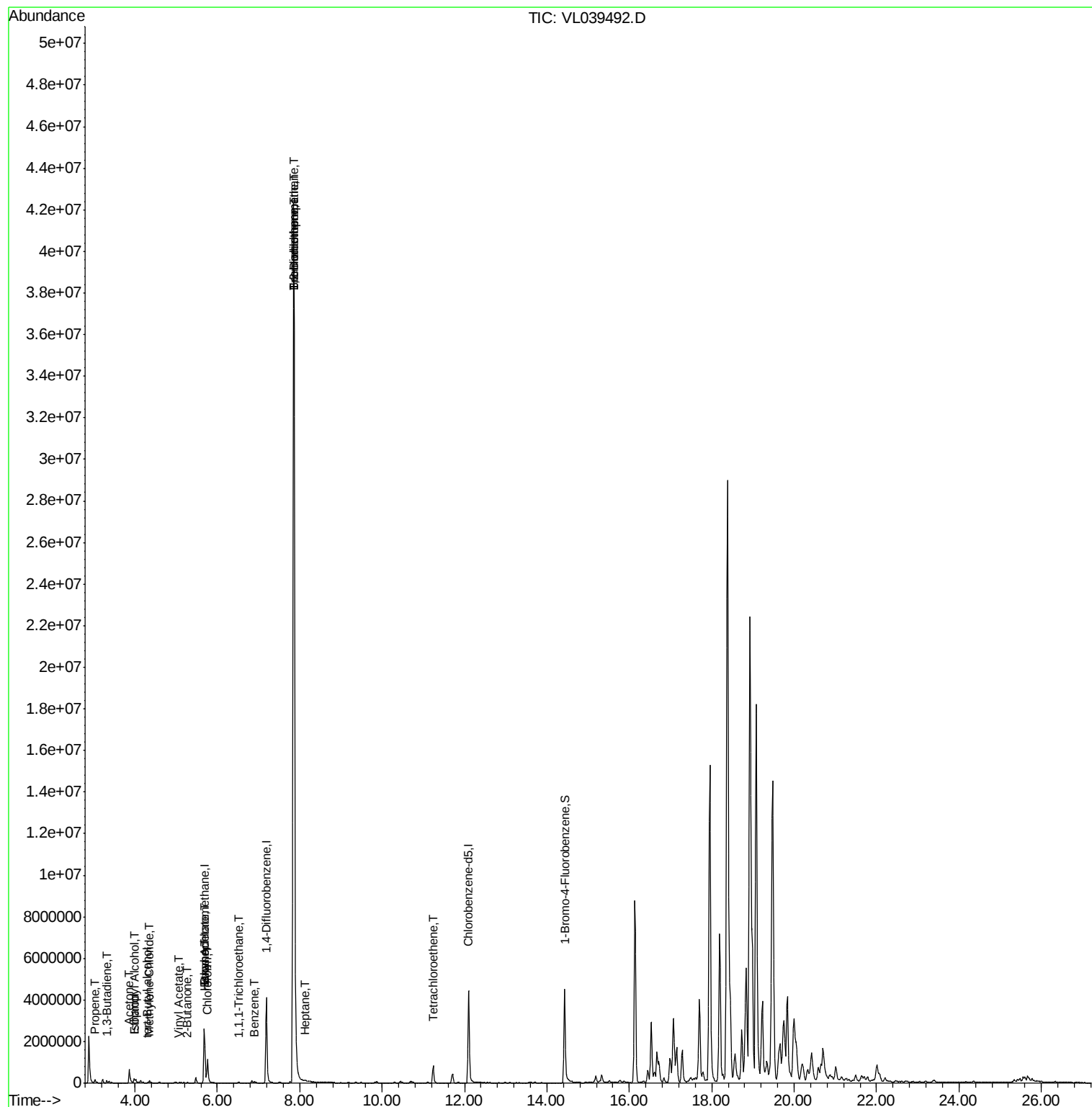
Target Compounds					Ovalue
9) Propene	3.03	41	72537	0.994	ppbv 87
10) Heptane	8.14	43	9792	0.057	ppbv # 24
13) Ethanol	3.98	45	246221	58.149	ppbv # 23
15) Acetone	3.86	43	881905	5.852	ppbv 96
16) 1,3-Butadiene	3.31	39	31529	0.403	ppbv # 10
17) tert-Butyl alcohol	4.31	59	6466	0.051	ppbv # 25
19) Isopropyl Alcohol	3.98	45	246221	3.063	ppbv # 89
20) Methylene Chloride	4.35	84	37807	0.629	ppbv 89
23) Vinyl Acetate	5.08	43	9562	0.095	ppbv # 83
25) Ethyl Acetate	5.70	43	257012	0.832	ppbv # 76
26) Hexane	5.70	57	378190	3.036	ppbv # 38
29) Chloroform	5.76	83	848681	3.918	ppbv 94
32) 1,1,1-Trichloroethane	6.52	97	12085	0.057	ppbv # 21
34) 2-Butanone	5.27	43	20816	0.116	ppbv # 35
36) Benzene	6.91	78	34199	0.124	ppbv # 87
38) Trichloroethene	7.86	130	18731765	125.920	ppbv 93
39) 1,2-Dichloropropane	7.86	63	98150	0.955	ppbv # 1
42) Bromodichloromethane	7.86	83	338092	1.545	ppbv # 98
52) Tetrachloroethene	11.24	164	231625	2.092	ppbv 94

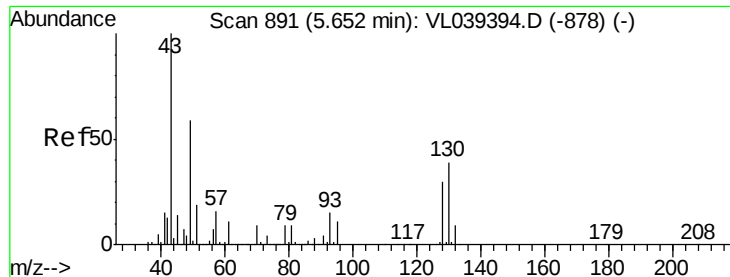
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071922\
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QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 19 Jul 2022 22:00

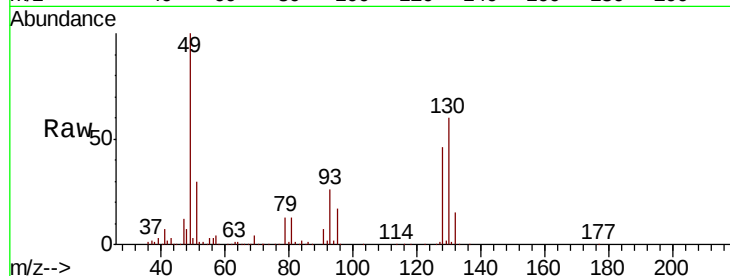
Tot Ion: 49 Resp: 1273813

Ion Ratio Lower Upper

49 100

128 52.0 26.7 80.0

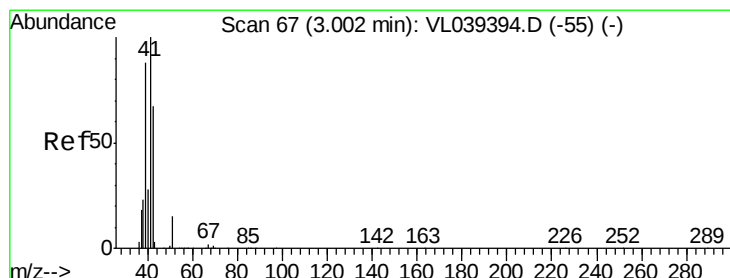
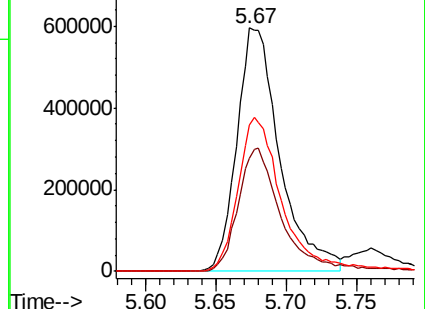
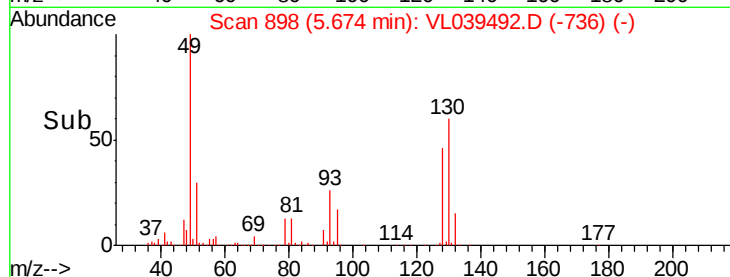
130 65.3 34.3 102.8



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



#9

Propene

Concen: 0.994 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.03 min

Lab File: VL039492.D

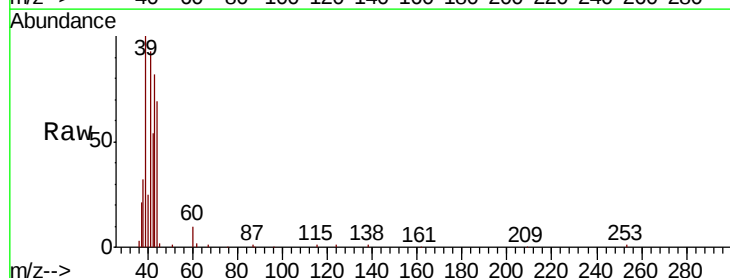
Acq: 19 Jul 2022 22:00

Tgt Ion: 41 Resp: 72537

Ion Ratio Lower Upper

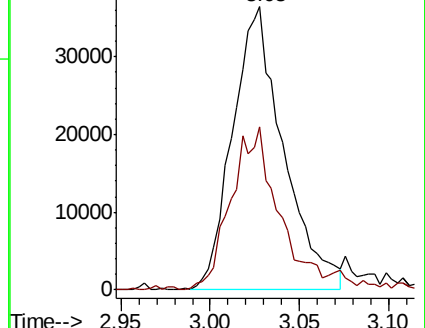
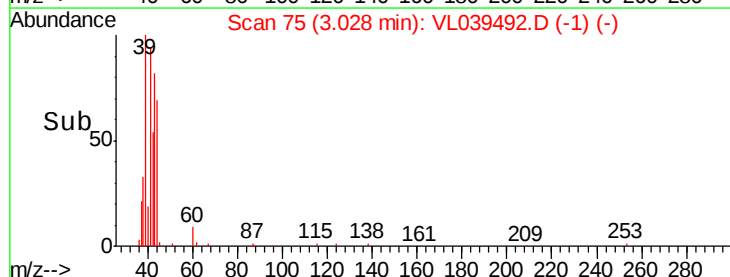
41 100

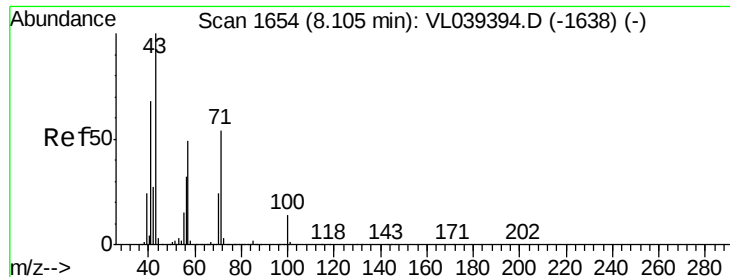
42 58.4 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.057 ppbv

RT: 8.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

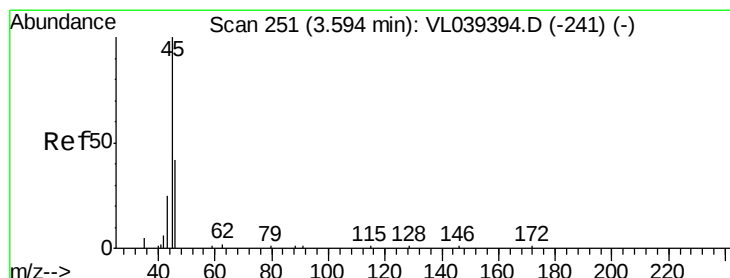
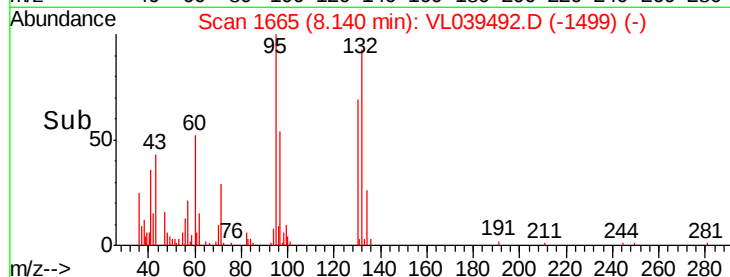
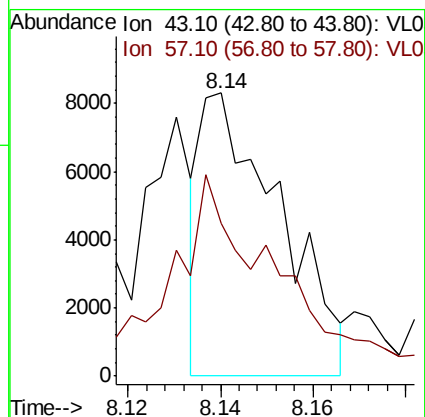
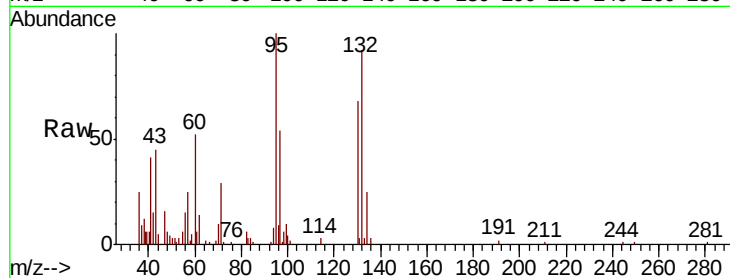
Acq: 19 Jul 2022 22:00 SV-4DL

Tot Ion: 43 Resp: 9792

Ion Ratio Lower Upper

43 100

57 103.5 40.5 60.7#



#13

Ethanol

Concen: 58.149 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.39 min

Lab File: VL039492.D

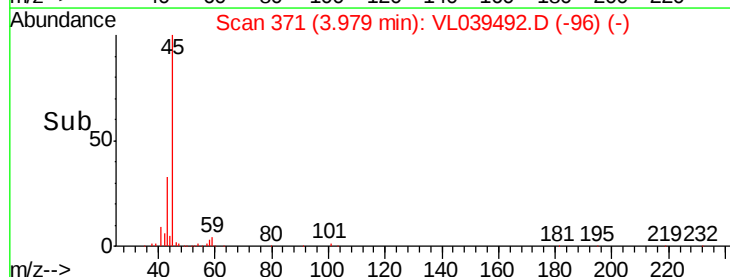
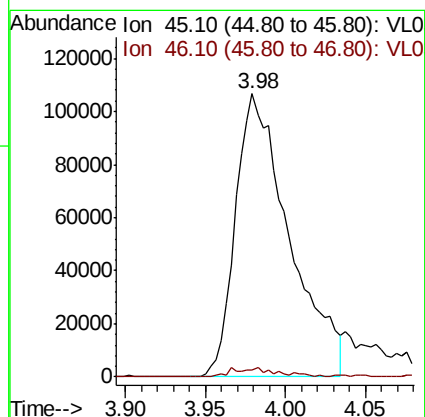
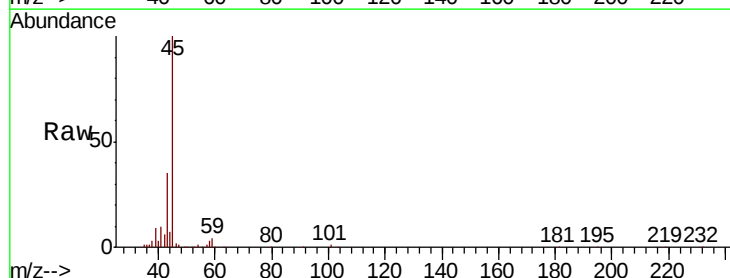
Acq: 19 Jul 2022 22:00

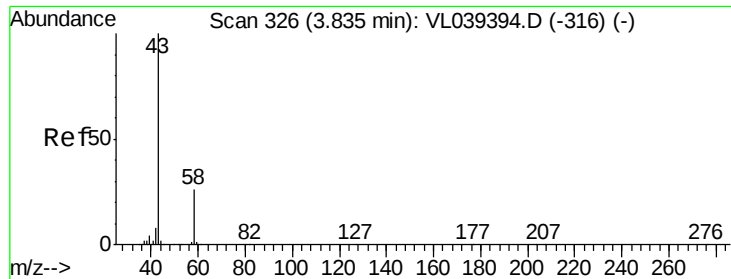
Tgt Ion: 45 Resp: 246221

Ion Ratio Lower Upper

45 100

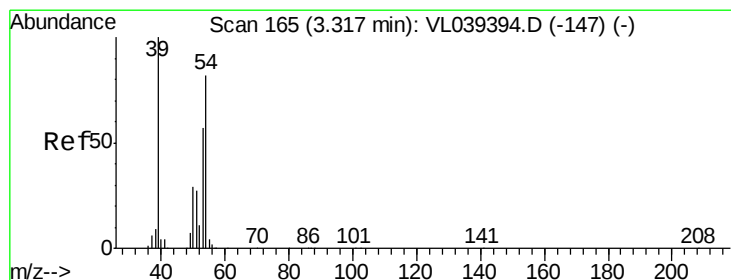
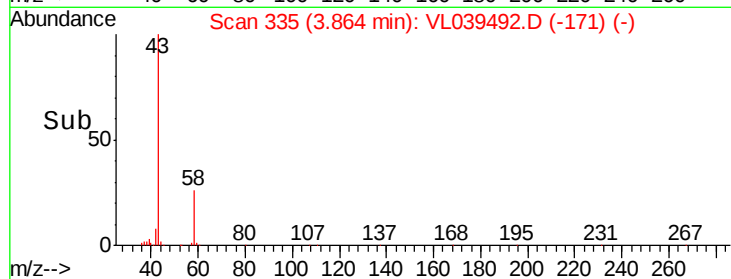
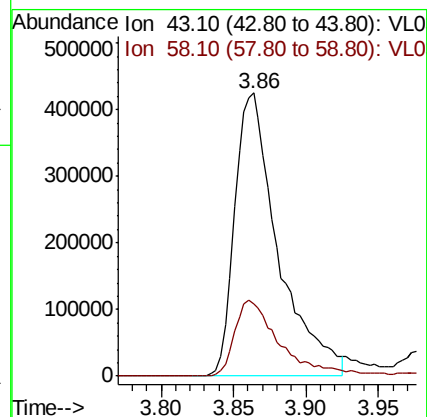
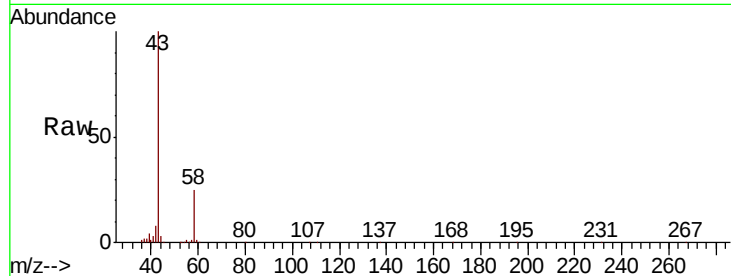
46 0.1 22.8 91.2#





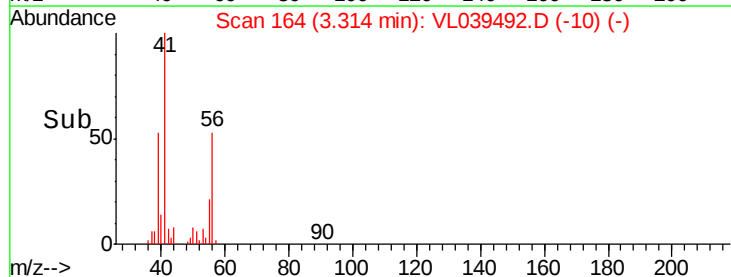
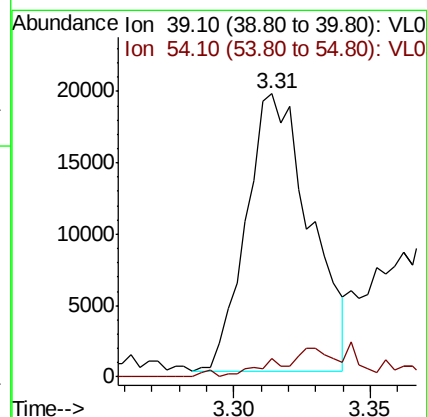
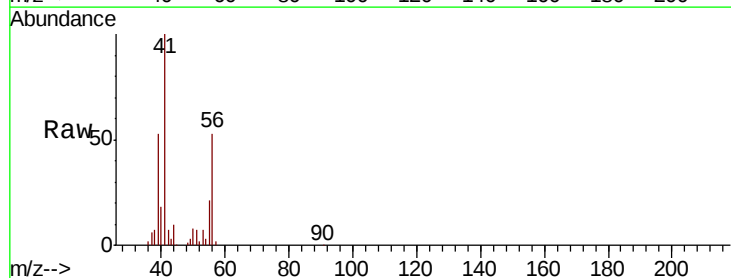
#15
Acetone
Concen: 5.852 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Jul 2022 22:00

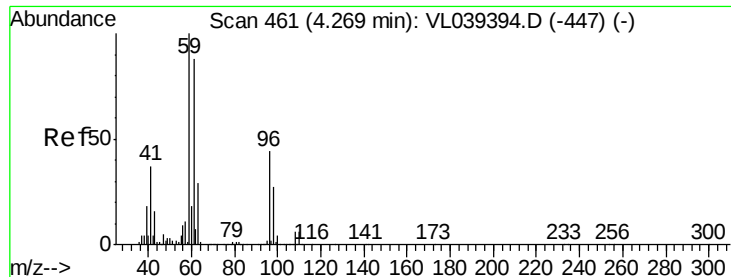
Tot Ion: 43 Resp: 881905
Ion Ratio Lower Upper
43 100
58 28.2 21.0 31.6



#16
1,3-Butadiene
Concen: 0.403 ppbv
RT: 3.31 min Scan# 164
Delta R.T. -0.00 min
Lab File: VL039492.D
Acq: 19 Jul 2022 22:00

Tgt Ion: 39 Resp: 31529
Ion Ratio Lower Upper
39 100
54 0.0 63.7 95.5#





#17

tert-Butyl alcohol

Concen: 0.051 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

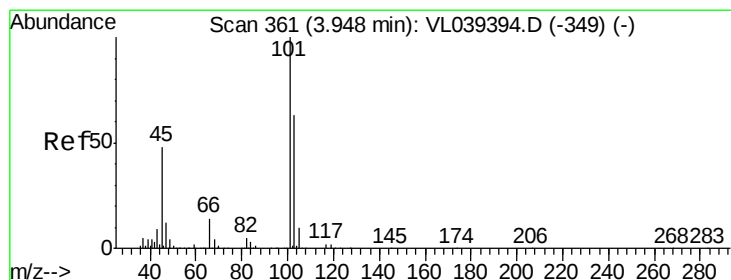
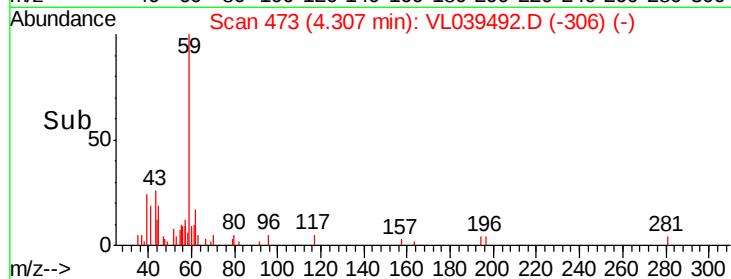
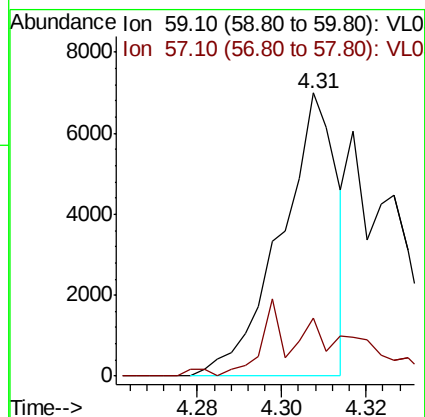
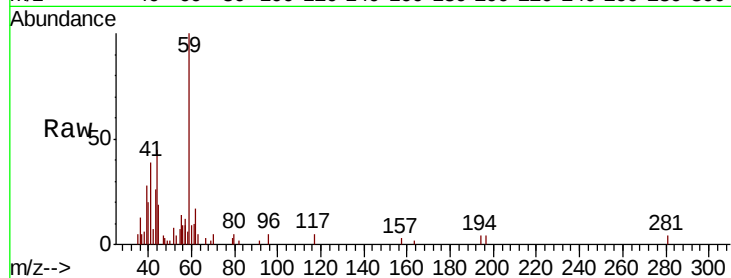
Acq: 19 Jul 2022 22:00

Tot Ion: 59 Resp: 6466

Ion Ratio Lower Upper

59 100

57 39.4 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 3.063 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.03 min

Lab File: VL039492.D

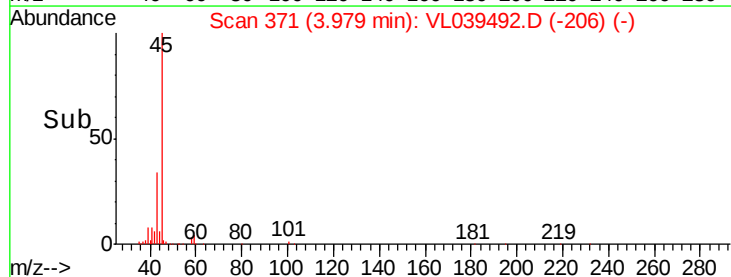
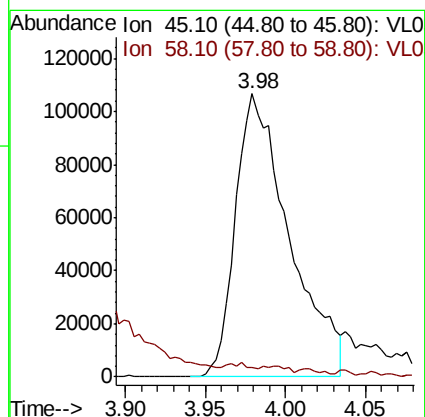
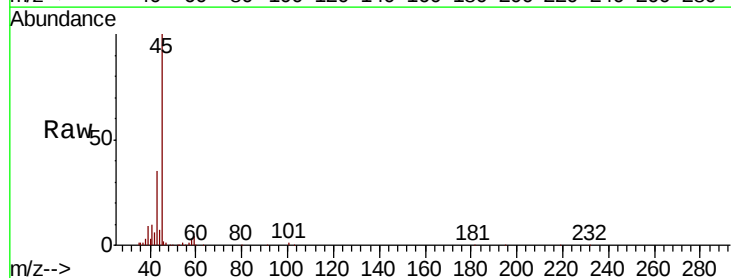
Acq: 19 Jul 2022 22:00

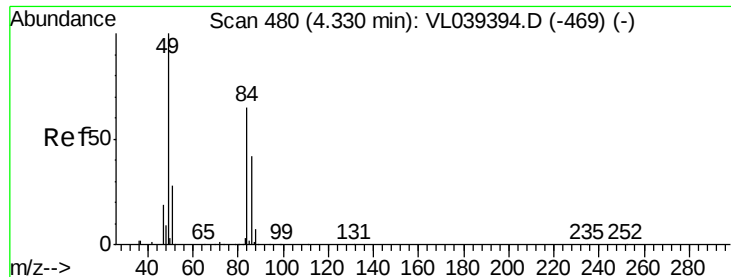
Tgt Ion: 45 Resp: 246221

Ion Ratio Lower Upper

45 100

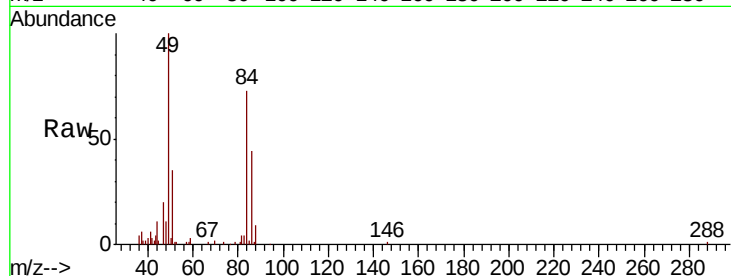
58 7.6 3.2 4.8#





#20
Methvlene Chloride
Concen: 0.629 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Jul 2022 22:00

Tot Ion:	84	Resp:	37807
Ion	Ratio	Lower	Upper
84	100		
49	134.3	123.1	184.7
51	45.7	34.4	51.6
86	60.3	51.1	76.7



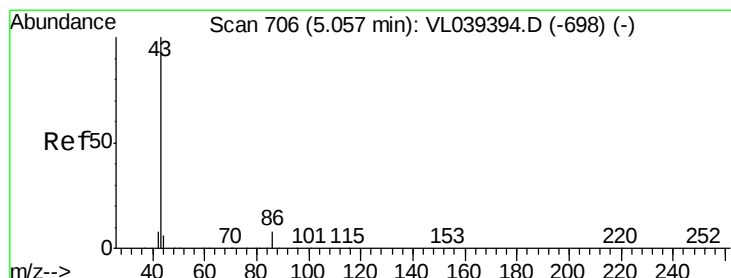
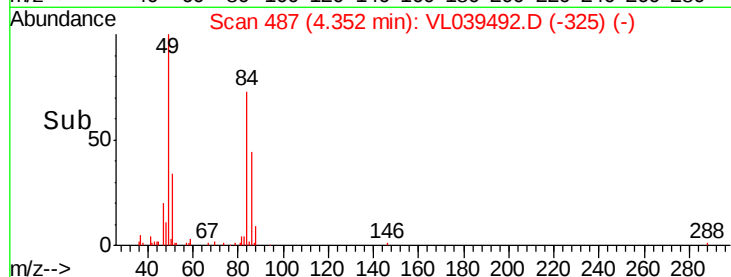
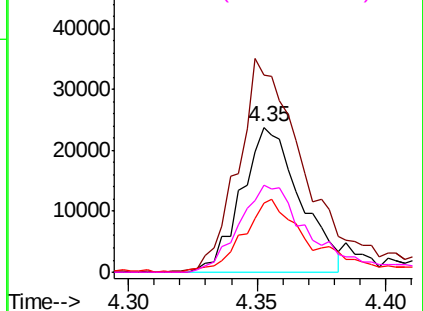
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

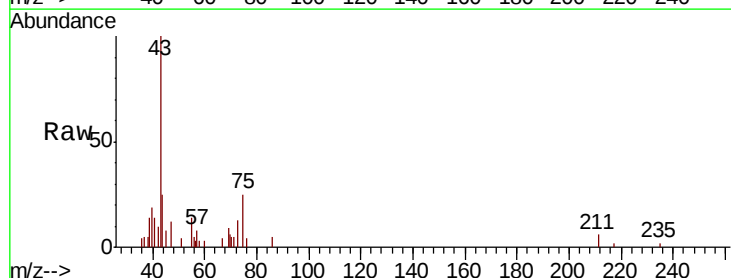
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.095 ppbv
RT: 5.08 min Scan# 713
Delta R.T. 0.02 min
Lab File: VL039492.D
Acq: 19 Jul 2022 22:00

Tgt Ion:	43	Resp:	9562
Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.0	7.6
42	0.0	7.7	11.5#
44	0.0	4.6	7.0#



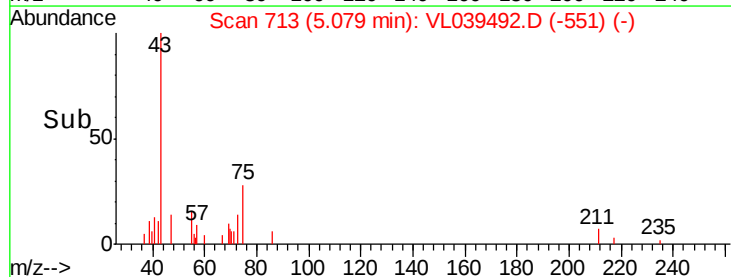
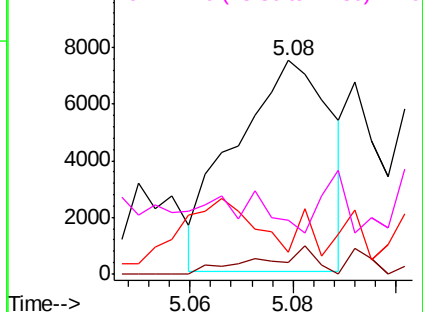
Abundance

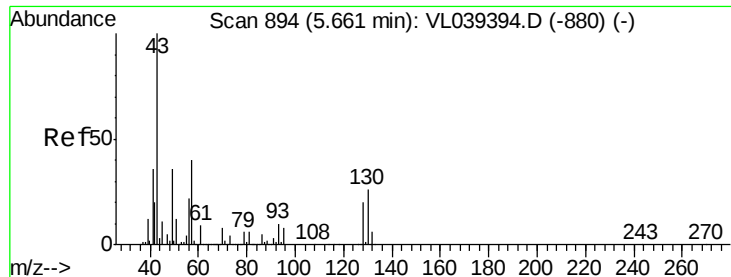
Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

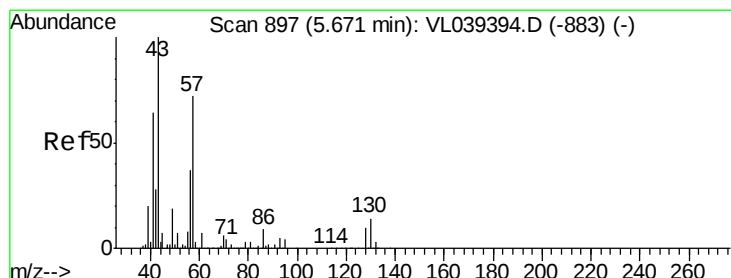
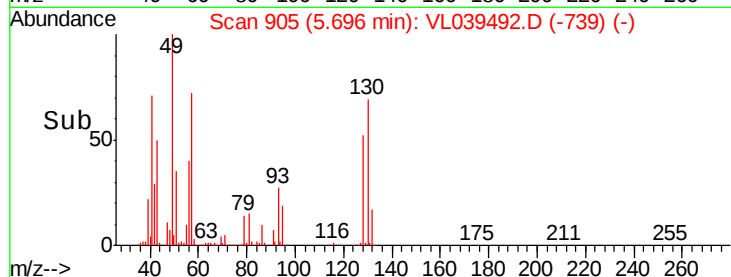
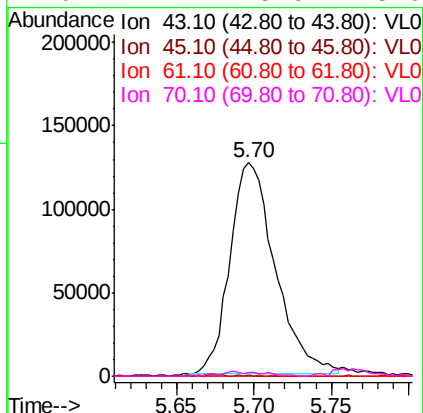
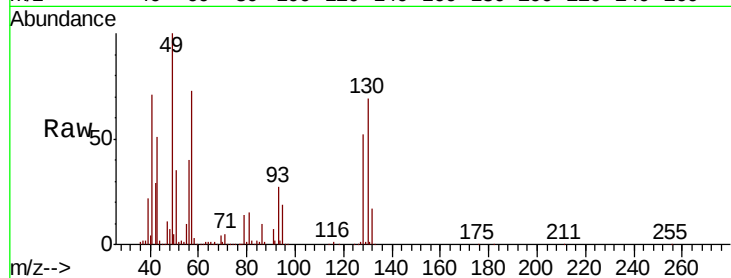
Ion 44.10 (43.80 to 44.80): VL0





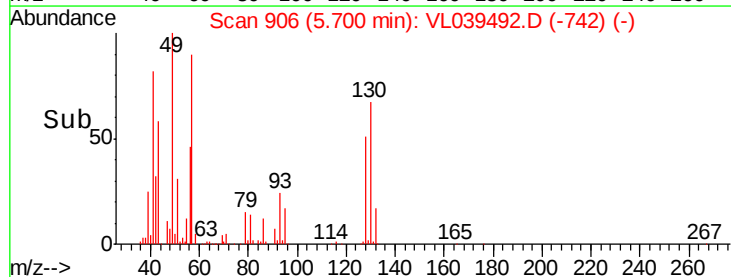
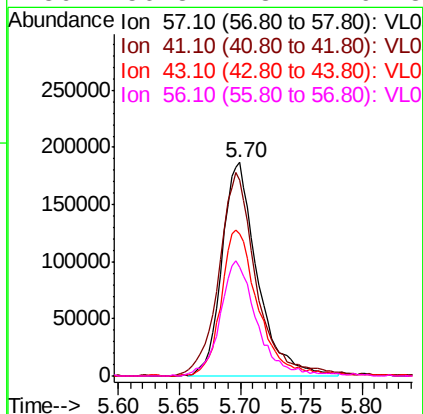
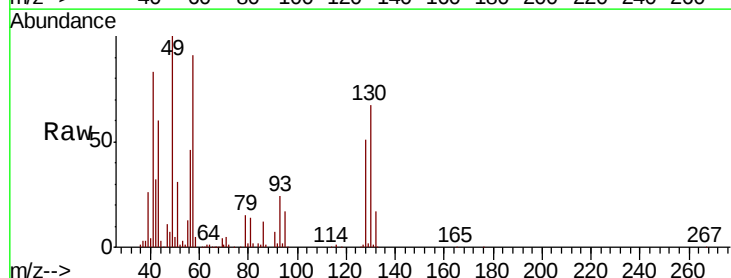
#25
Ethyl Acetate
Concen: 0.832 ppbv
RT: 5.70 min
Delta R.T.: 0.03 min
Lab File: VL039492.D
Acq: 19 Jul 2022 22:00

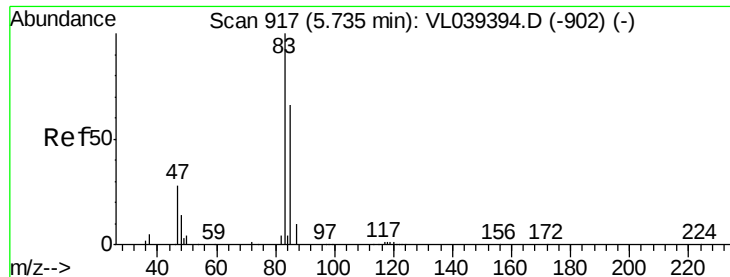
Tot Ion:	43	Resp:	257012
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.2	12.4#
61	0.2	8.3	12.5#
70	2.4	5.9	8.9#



#26
Hexane
Concen: 3.036 ppbv
RT: 5.70 min Scan# 906
Delta R.T.: 0.03 min
Lab File: VL039492.D
Acq: 19 Jul 2022 22:00

Tgt Ion:	57	Resp:	378190
Ion	Ratio	Lower	Upper
57	100		
41	102.5	76.9	115.3
43	73.1	191.0	286.6#
56	56.8	43.2	64.8





#29

Chloroform

Concen: 3.918 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

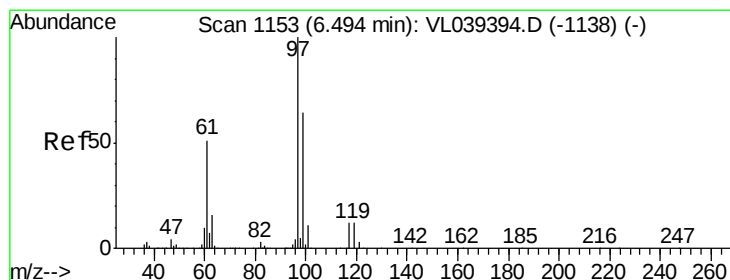
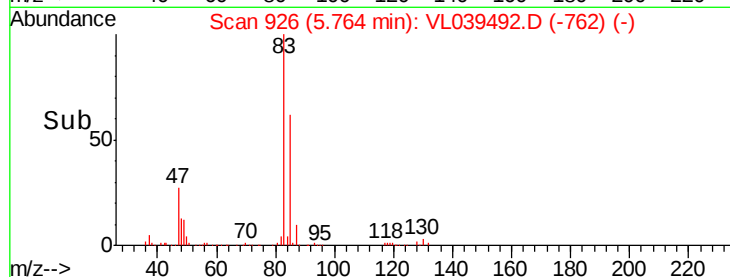
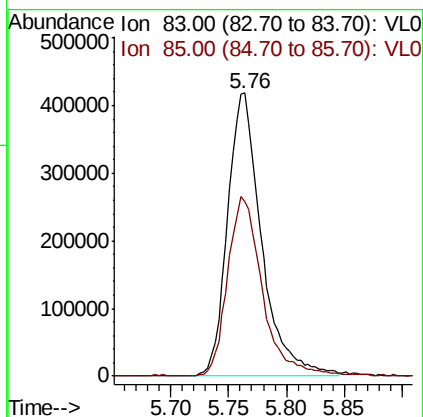
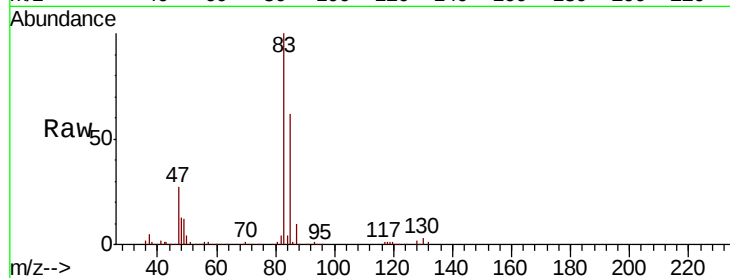
Acq: 19 Jul 2022 22:00 SV-4DL

Tot Ion: 83 Resp: 848681

Ion Ratio Lower Upper

83 100

85 61.3 52.8 79.2



#32

1,1,1-Trichloroethane

Concen: 0.057 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. 0.03 min

Lab File: VL039492.D

Acq: 19 Jul 2022 22:00

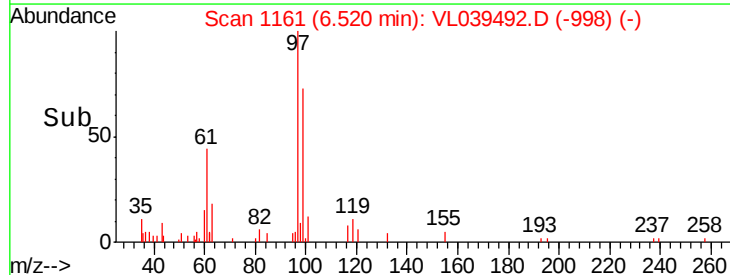
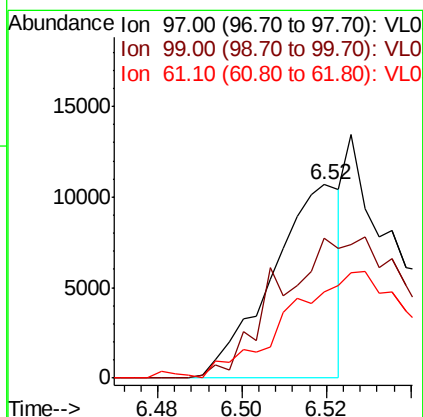
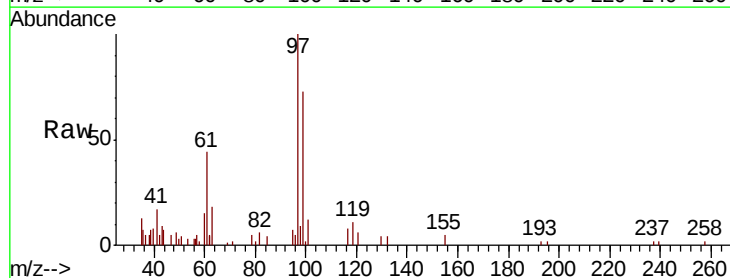
Tgt Ion: 97 Resp: 12085

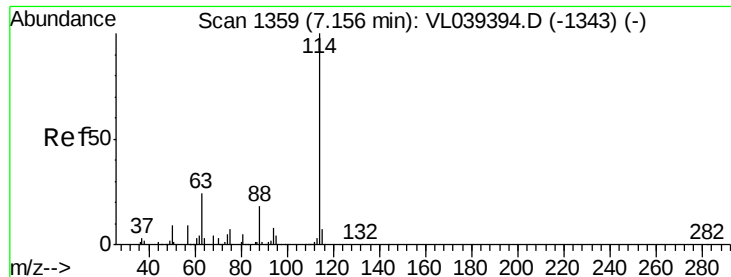
Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5#

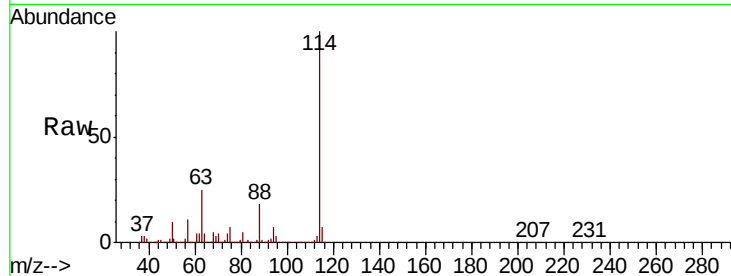
61 0.0 40.9 61.3#



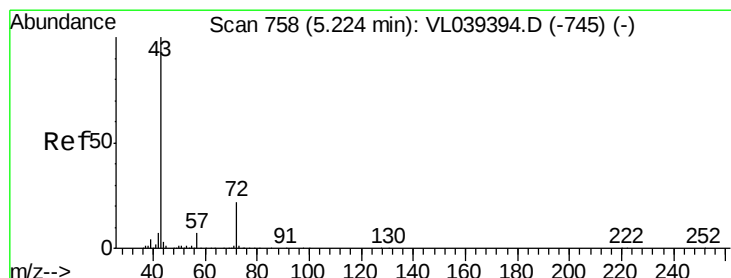
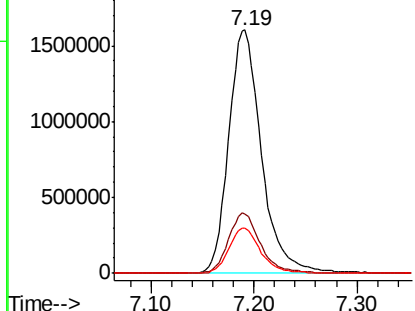
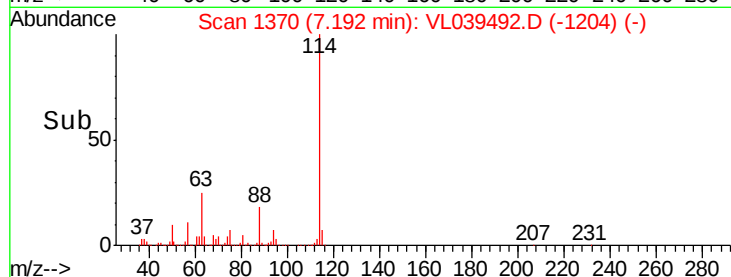


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 SV-4DL
 Acq: 19 Jul 2022 22:00

Tot Ion:114 Resp: 3553695
 Ion Ratio Lower Upper
 114 100
 63 24.5 20.2 30.4
 88 18.2 14.5 21.7

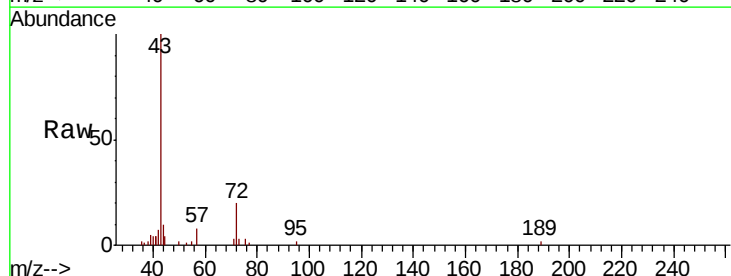


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

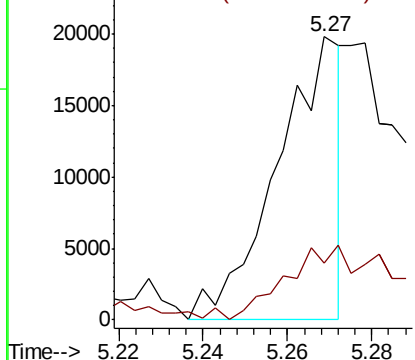
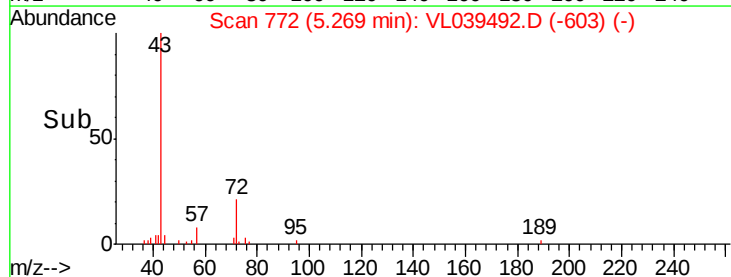


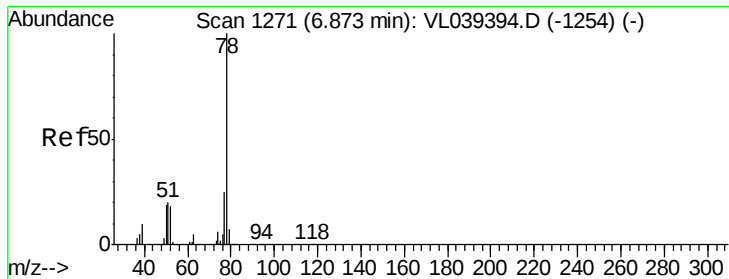
#34
 2-Butanone
 Concen: 0.116 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.04 min
 Lab File: VL039492.D
 Acq: 19 Jul 2022 22:00

Tgt Ion: 43 Resp: 20816
 Ion Ratio Lower Upper
 43 100
 72 53.5 17.9 26.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.124 ppbv

RT: 6.91 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 22:00 SV-4DL

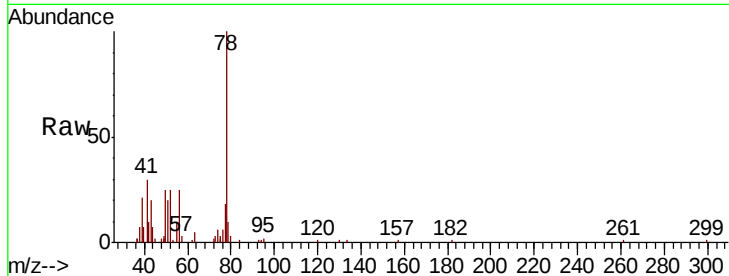
Tot Ion: 78 Resp: 34199

Ion Ratio Lower Upper

78 100

77 18.2 20.3 30.5#

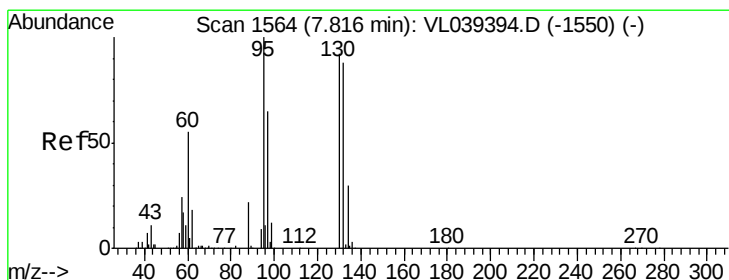
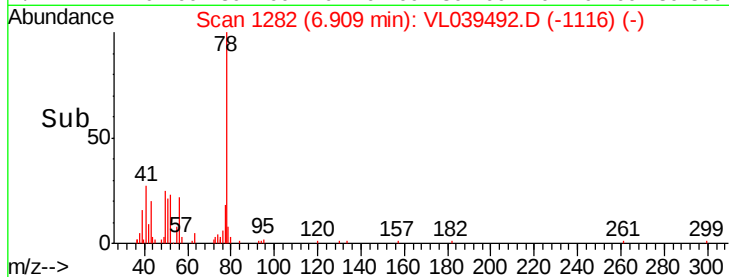
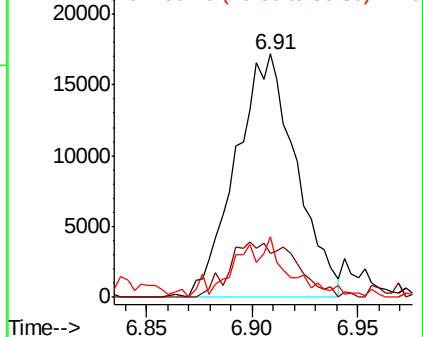
50 24.7 15.5 23.3#



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: 125.920 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. 0.04 min

Lab File: VL039492.D

Acq: 19 Jul 2022 22:00

Tgt Ion:130 Resp:18731765

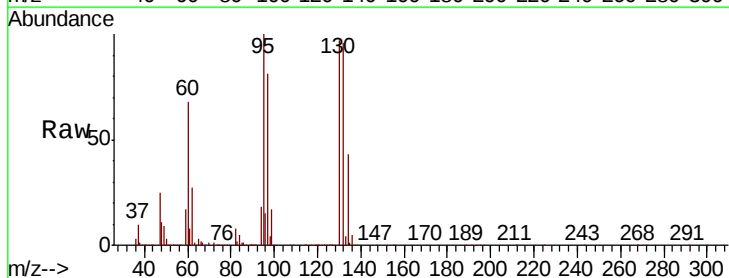
Ion Ratio Lower Upper

130 100

95 102.7 87.3 130.9

132 98.6 76.7 115.1

97 83.1 56.5 84.7

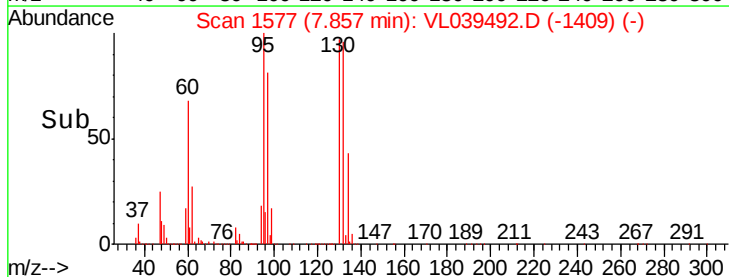
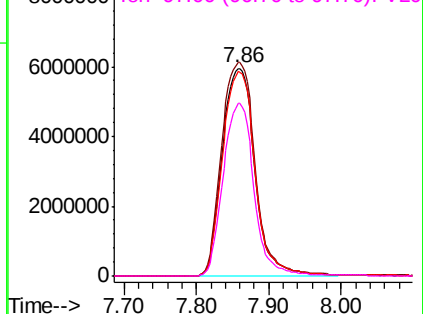


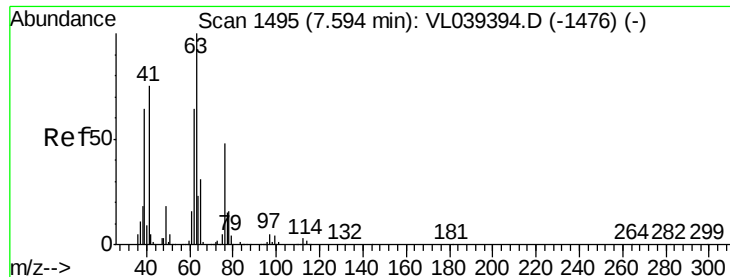
Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.955 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 22:00

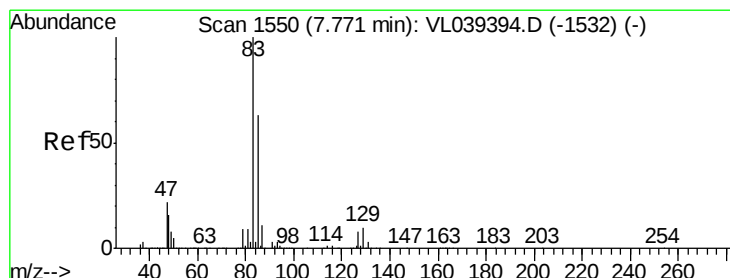
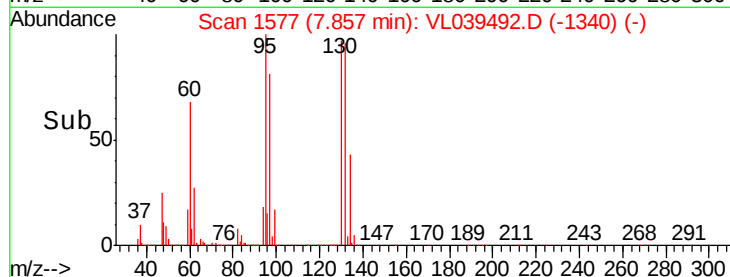
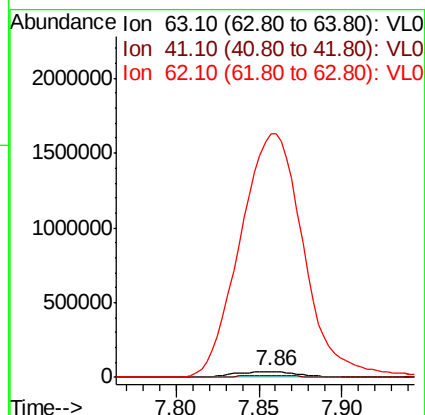
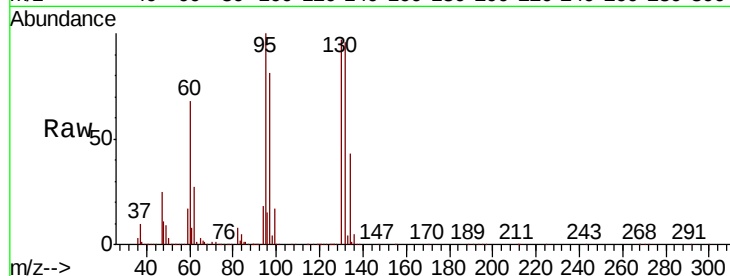
Tot Ion: 63 Resp: 98150

Ion Ratio Lower Upper

63 100

41 22.5 59.6 89.4#

62 4095.5 51.4 77.0#



#42

Bromodichloromethane

Concen: 1.545 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. 0.09 min

Lab File: VL039492.D

Acq: 19 Jul 2022 22:00

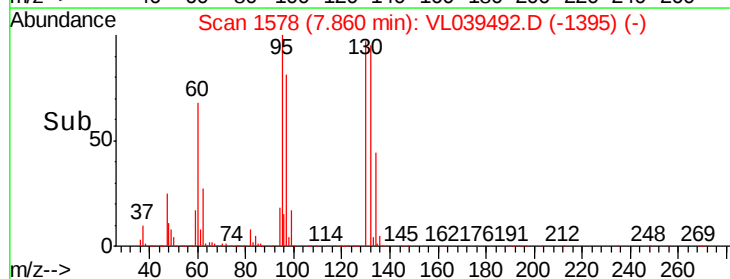
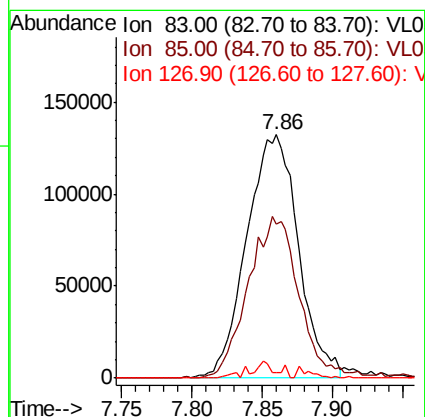
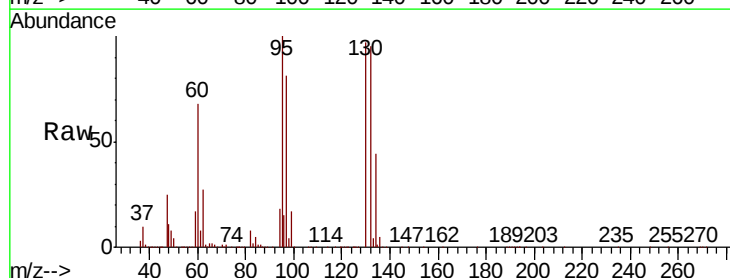
Tgt Ion: 83 Resp: 338092

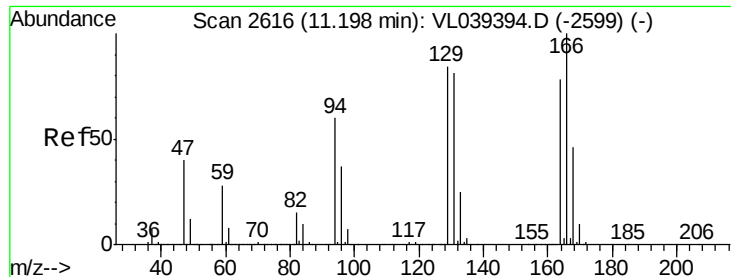
Ion Ratio Lower Upper

83 100

85 63.1 50.7 76.1

127 2.1 6.6 9.8#





#52

Tetrachloroethene

Concen: 2.092 ppbv

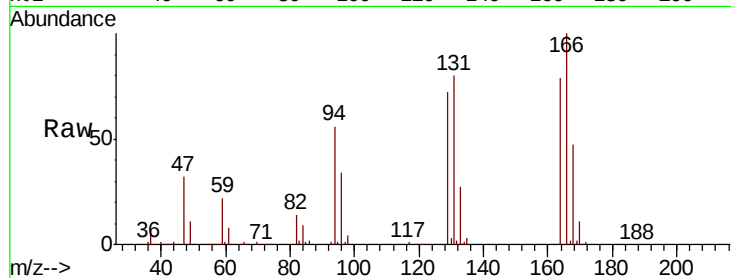
RT: 11.24

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 22:00

Tot Ion:	164	Resp:	231625
Ion	Ratio	Lower	Upper
164	100		
166	127.2	102.2	153.2
129	91.5	85.8	128.8
131	101.1	83.3	124.9



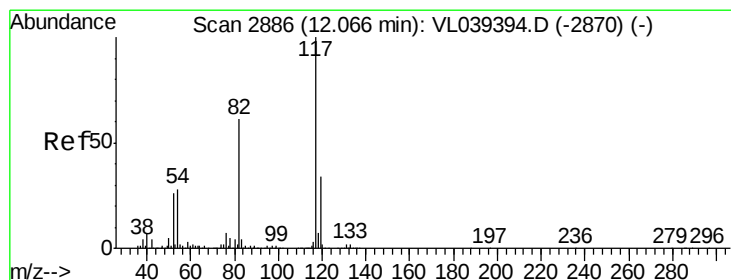
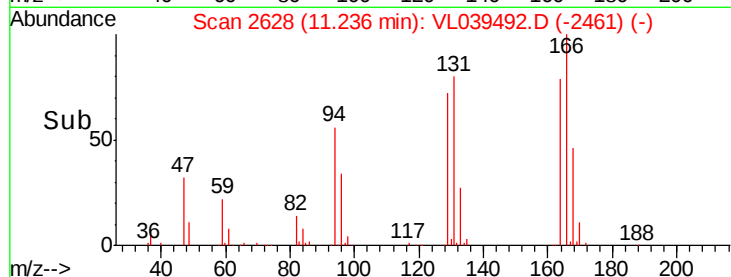
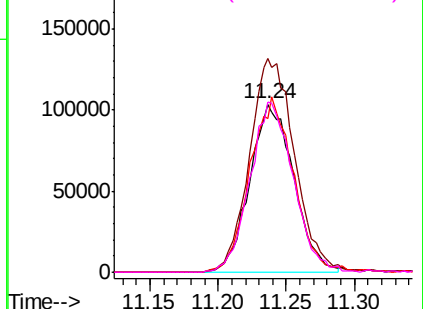
Abundance

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

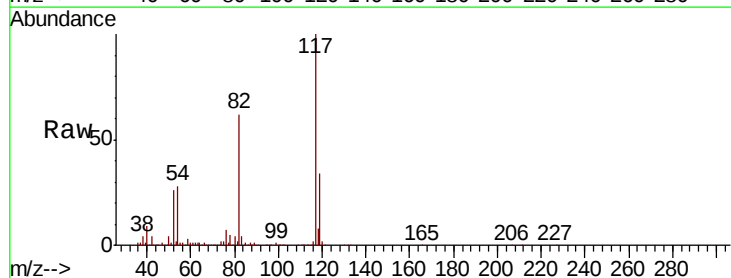
RT: 12.10 min Scan# 2896

Delta R.T. 0.03 min

Lab File: VL039492.D

Acq: 19 Jul 2022 22:00

Tgt Ion:	117	Resp:	3168677
Ion	Ratio	Lower	Upper
117	100		
82	64.7	50.8	76.2
119	33.3	24.1	36.1

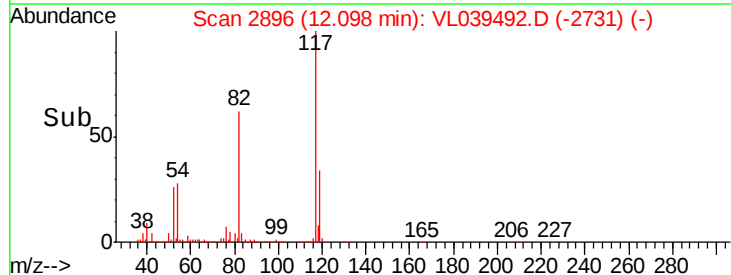
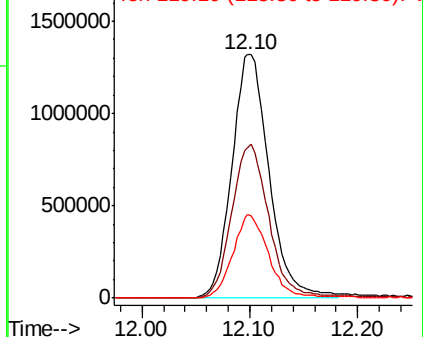


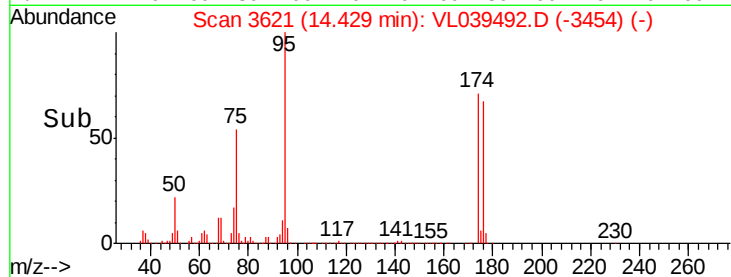
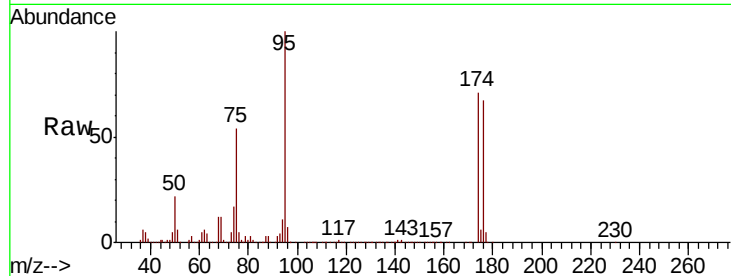
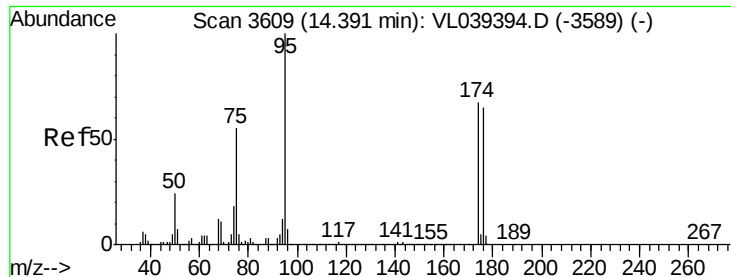
Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.086 ppbv

RT: 14.43 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 19 Jul 2022 22:00

Tot Ion: 95 Resp: 2370870

Ion Ratio Lower Upper

95 100

174 73.6 55.9 83.9

175 5.5 4.2 6.4

