

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072522\
 Data File : VL039524.D
 Acq On : 25 Jul 2022 20:04
 Operator : SY/AP
 Sample : N3844-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 ENV-DE-5-SVDL

Quant Time: Jul 26 08:05:48 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	1103175	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3179864	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	2830256	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2241903	10.68	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.80%

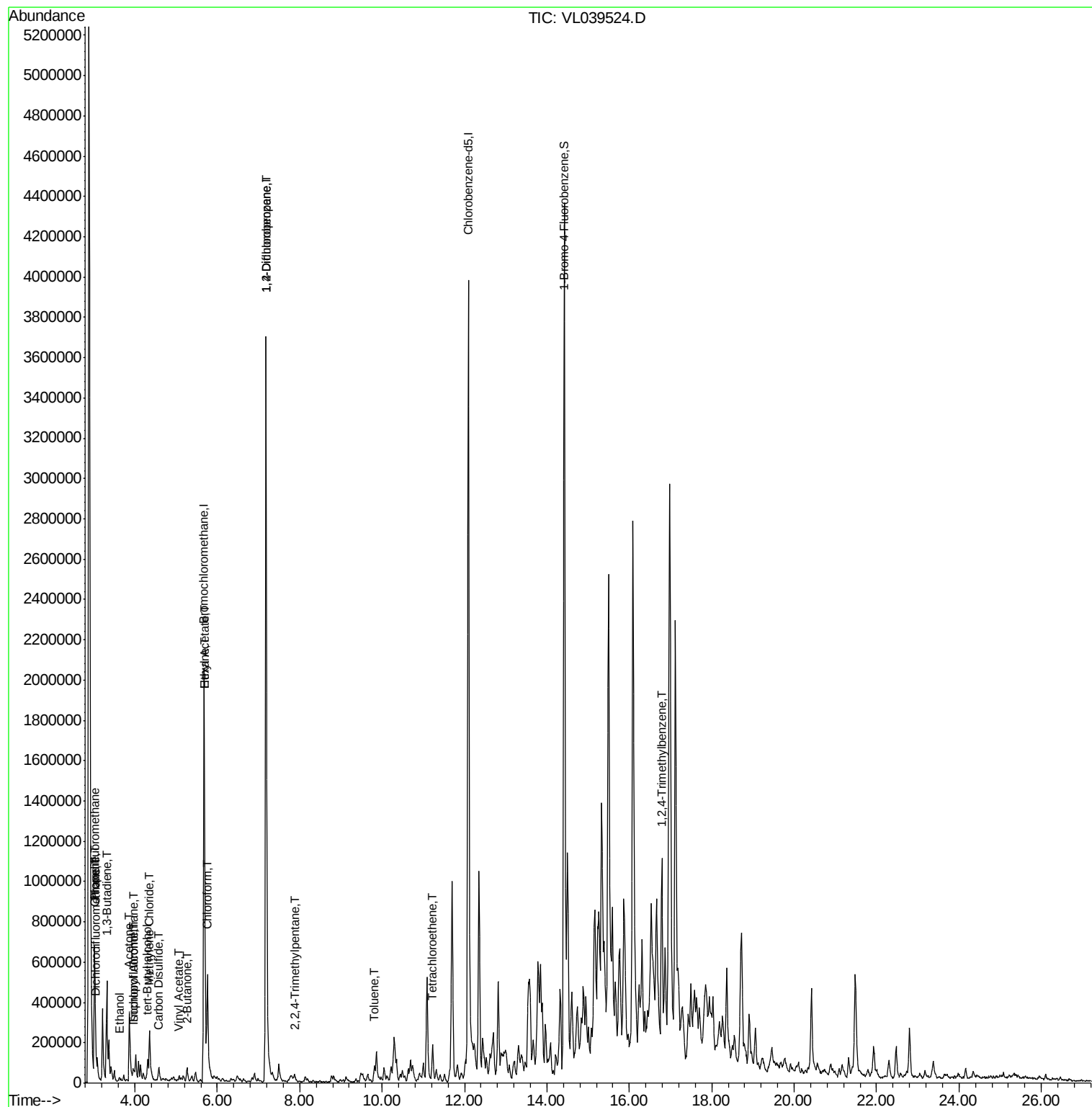
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	6938	0.044	ppbv #	78
3) Chlorodifluoromethane	3.03	51	32077	0.229	ppbv #	70
9) Propene	3.02	41	328304	5.194	ppbv	95
11) Trichlorofluoromethane	3.96	101	15905	0.090	ppbv	85
13) Ethanol	3.62	45	9974	2.720	ppbv #	23
15) Acetone	3.86	43	436504	3.345	ppbv #	87
16) 1,3-Butadiene	3.32	39	75542	1.116	ppbv #	40
17) tert-Butyl alcohol	4.30	59	72229	0.652	ppbv #	89
19) Isopropyl Alcohol	3.98	45	17685	0.254	ppbv #	1
20) Methylene Chloride	4.35	84	91334	1.756	ppbv	96
23) Vinyl Acetate	5.07	43	5158	0.059	ppbv #	58
25) Ethyl Acetate	5.69	43	74885	0.280	ppbv #	77
26) Hexane	5.69	57	101826	0.944	ppbv #	41
27) Carbon Disulfide	4.55	76	9342	0.072	ppbv #	1
29) Chloroform	5.76	83	363379	1.937	ppbv	93
34) 2-Butanone	5.26	43	104545	0.653	ppbv	95
39) 1,2-Dichloropropane	7.18	63	781011	8.495	ppbv #	24
44) 2,2,4-Trimethylpentane	7.88	57	12572	0.030	ppbv #	10
52) Tetrachloroethene	11.23	164	15152	0.153	ppbv	92
53) Toluene	9.82	91	19032	0.067	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.77	105	11841	0.032	ppbv #	61

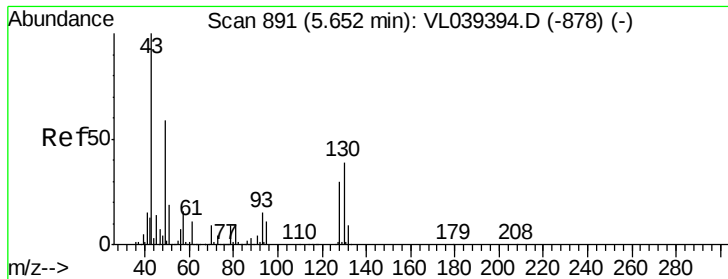
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Jul 2022 20:04 ENV-DE-5-SVDL

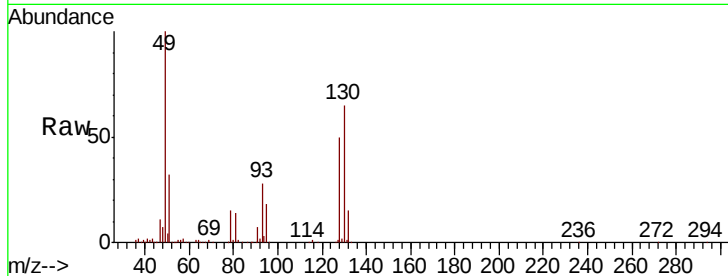
Tot Ion: 49 Resp: 1103175

Ion Ratio Lower Upper

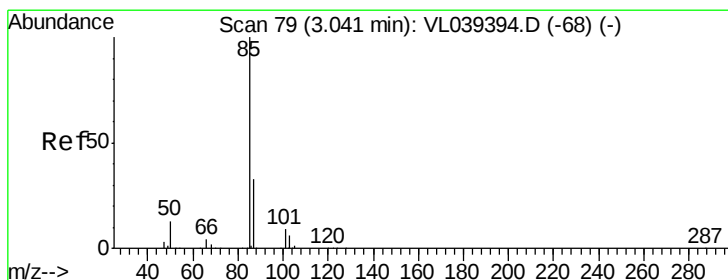
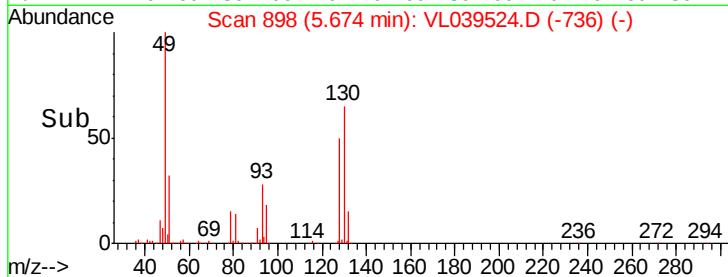
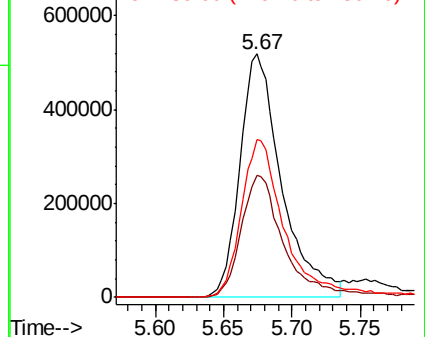
49 100

128 54.0 26.7 80.0

130 69.5 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



#2

Dichlorodifluoromethane

Concen: 0.044 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL039524.D

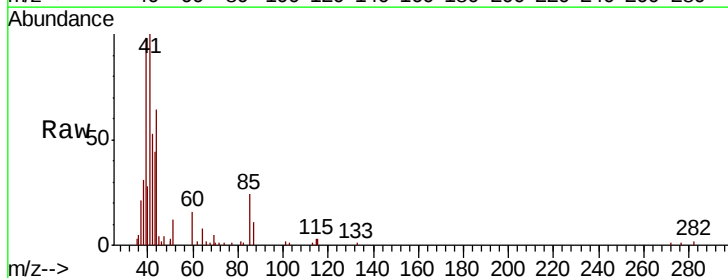
Acq: 25 Jul 2022 20:04

Tgt Ion: 85 Resp: 6938

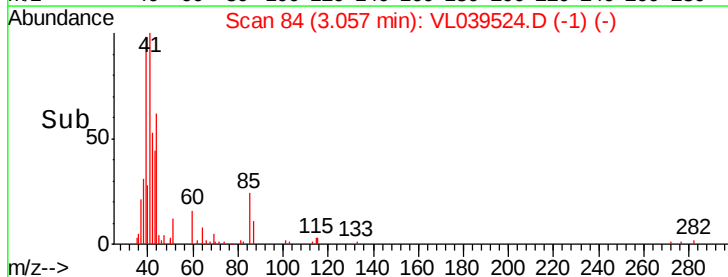
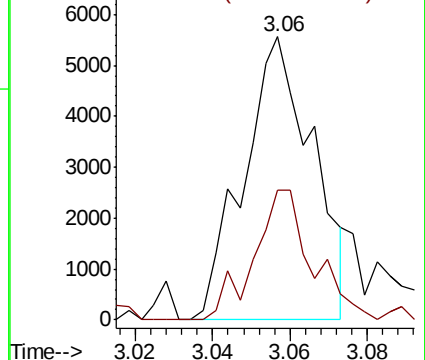
Ion Ratio Lower Upper

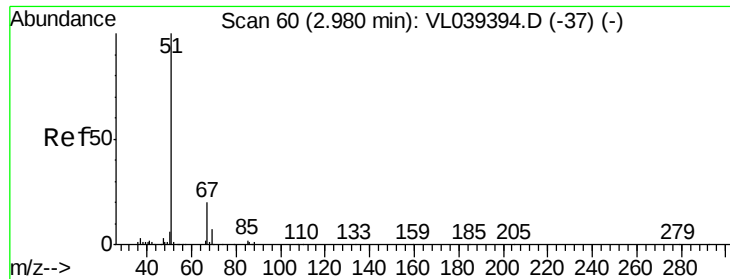
85 100

87 45.8 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.229 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: ENV-DE-5-SVDL

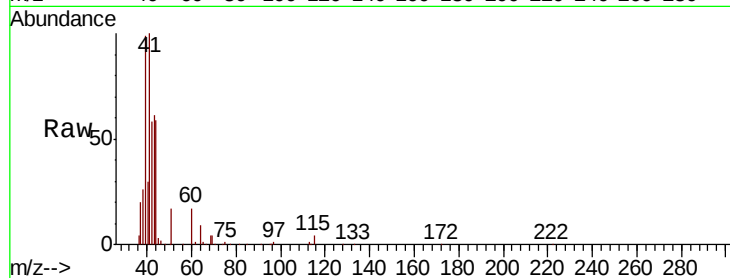
Acq: 25 Jul 2022 20:04

Tot Ion: 51 Resp: 32077

Ion Ratio Lower Upper

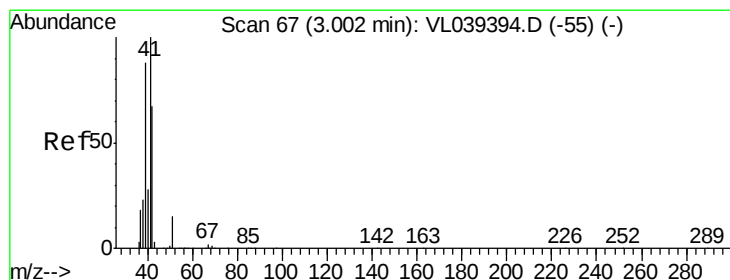
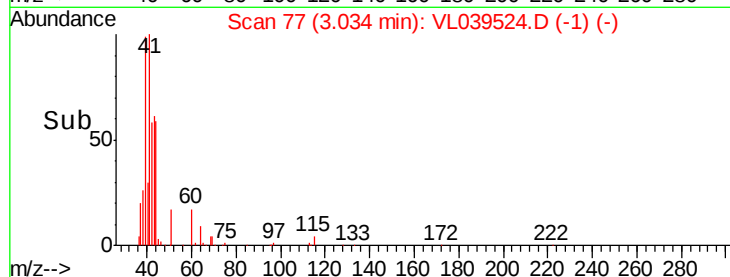
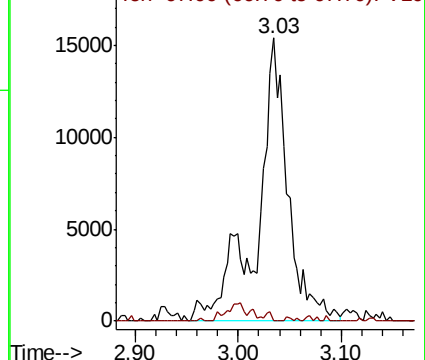
51 100

67 5.7 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 5.194 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL039524.D

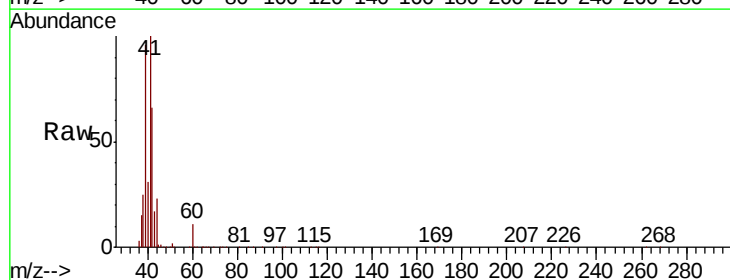
Acq: 25 Jul 2022 20:04

Tgt Ion: 41 Resp: 328304

Ion Ratio Lower Upper

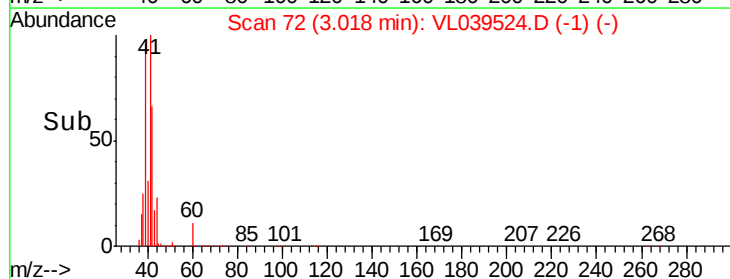
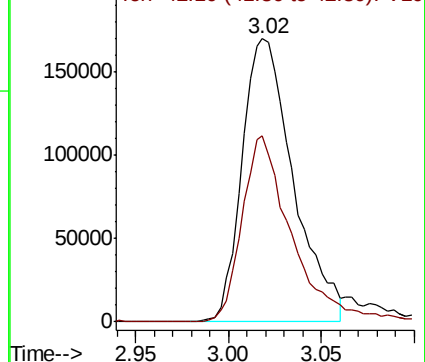
41 100

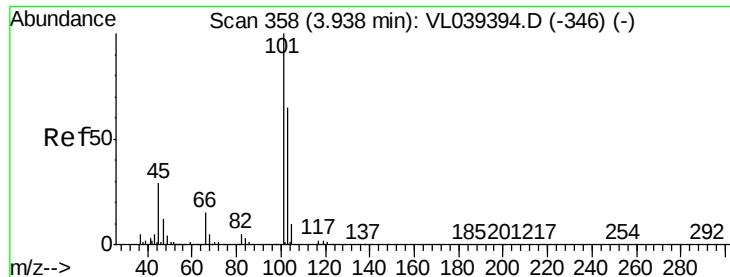
42 64.8 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

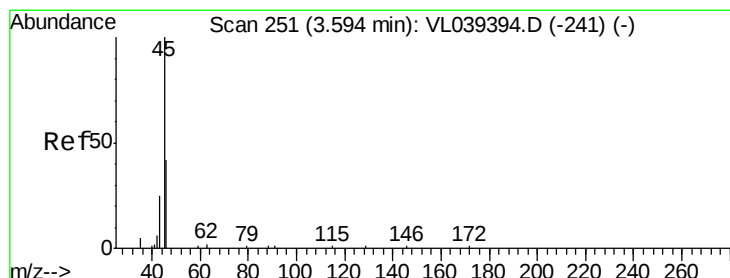
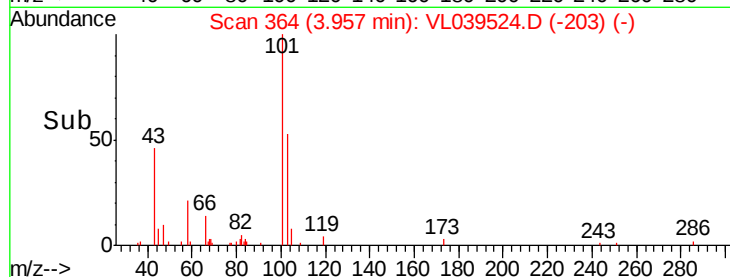
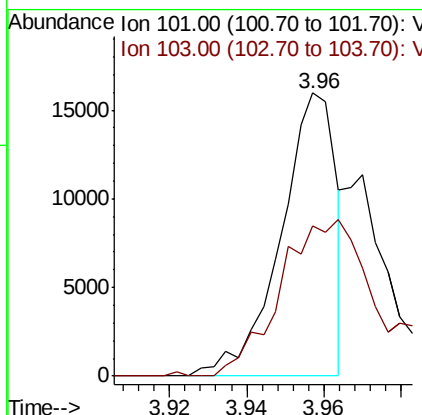
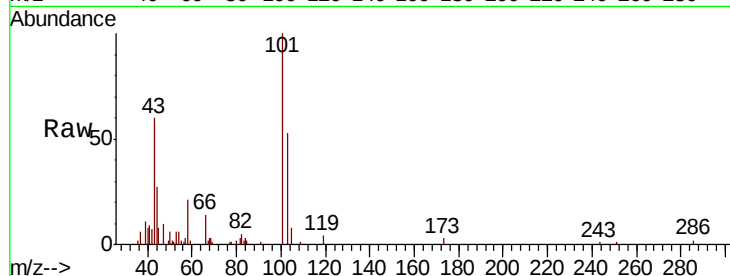
Ion 42.10 (41.80 to 42.80): VL0





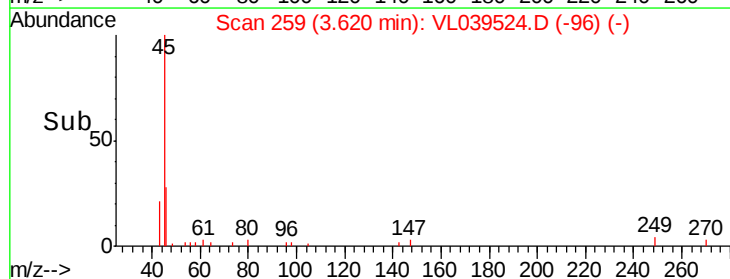
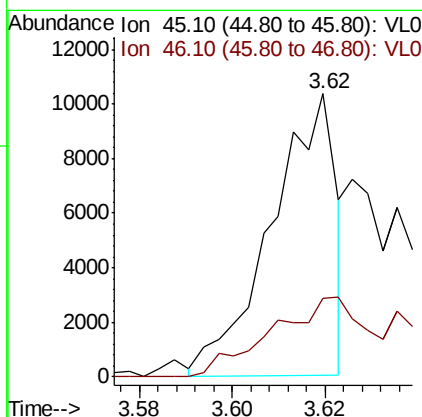
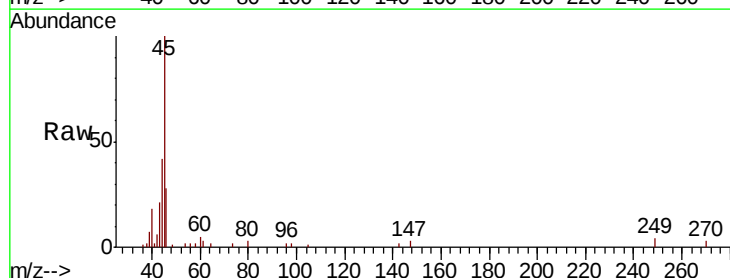
#11
 Trichlorofluoromethane
 Concen: 0.090 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Jul 2022 20:04

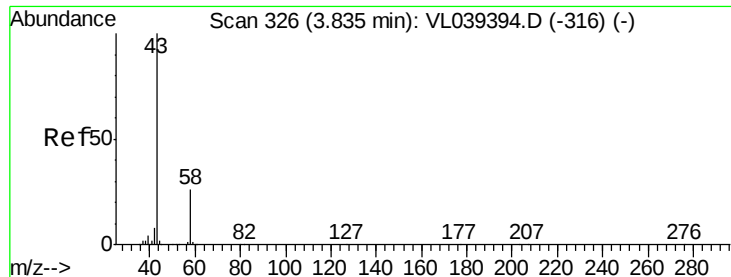
Tot Ion: 101 Resp: 15905
 Ion Ratio Lower Upper
 101 100
 103 52.9 51.8 77.8



#13
 Ethanol
 Concen: 2.720 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.03 min
 Lab File: VL039524.D
 Acq: 25 Jul 2022 20:04

Tgt Ion: 45 Resp: 9974
 Ion Ratio Lower Upper
 45 100
 46 0.0 22.8 91.2#





#15

Acetone

Concen: 3.345 ppbv

RT: 3.86

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

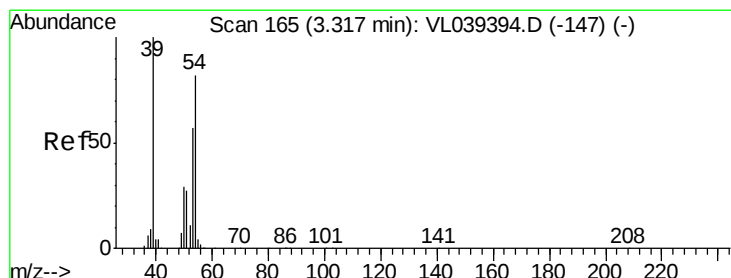
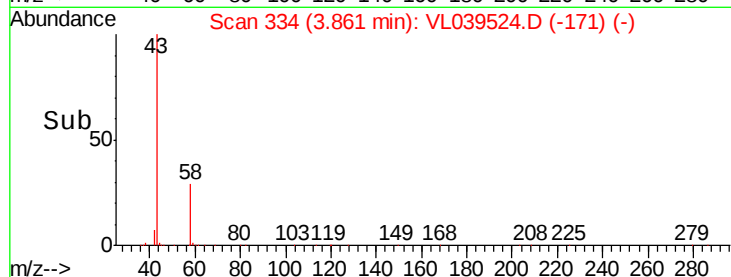
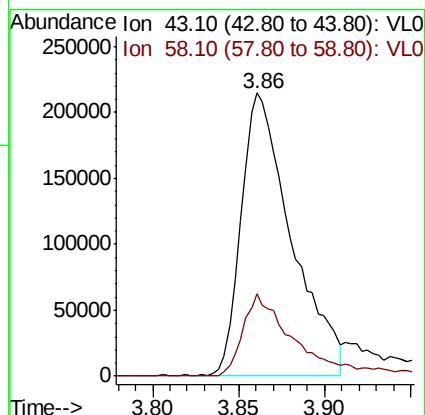
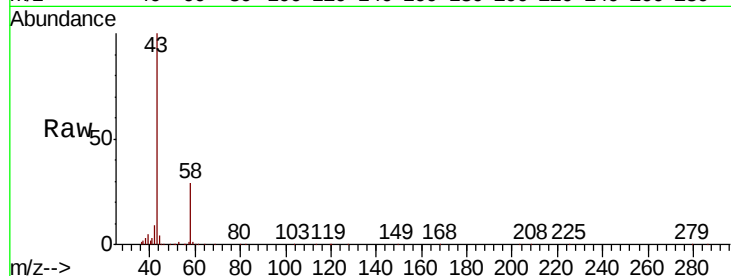
Acq: 25 Jul 2022 20:04

Tot Ion: 43 Resp: 436504

Ion Ratio Lower Upper

43 100

58 32.8 21.0 31.6#



#16

1,3-Butadiene

Concen: 1.116 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.00 min

Lab File: VL039524.D

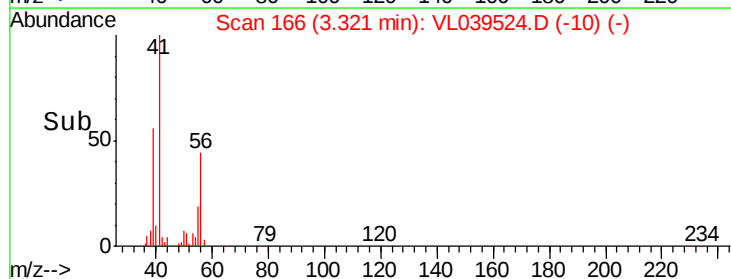
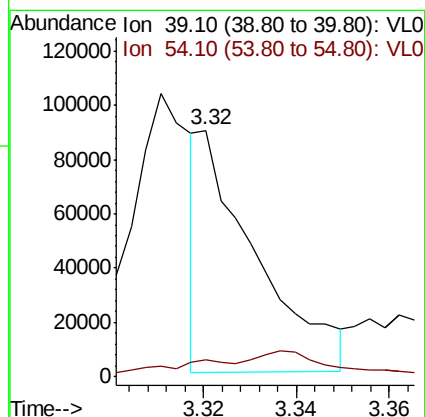
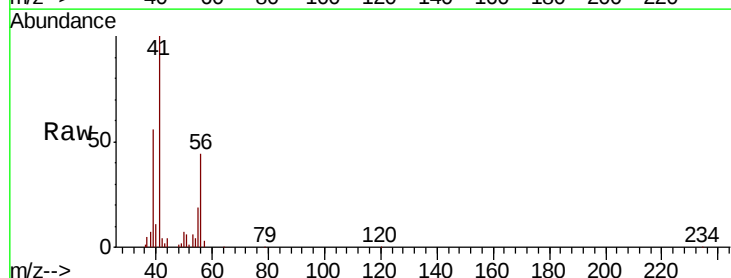
Acq: 25 Jul 2022 20:04

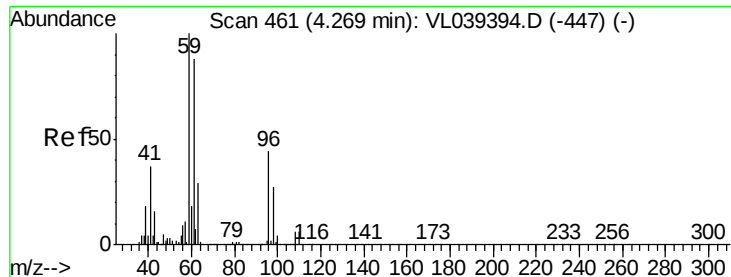
Tgt Ion: 39 Resp: 75542

Ion Ratio Lower Upper

39 100

54 27.0 63.7 95.5#





#17

tert-Butyl alcohol

Concen: 0.652 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

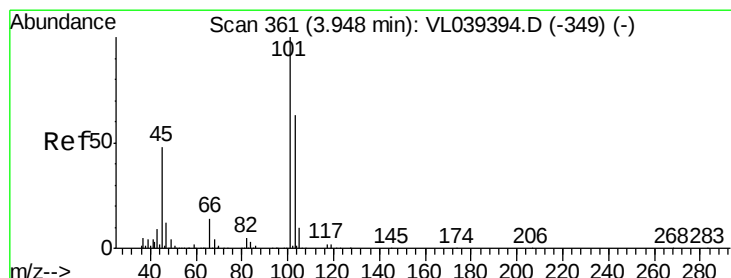
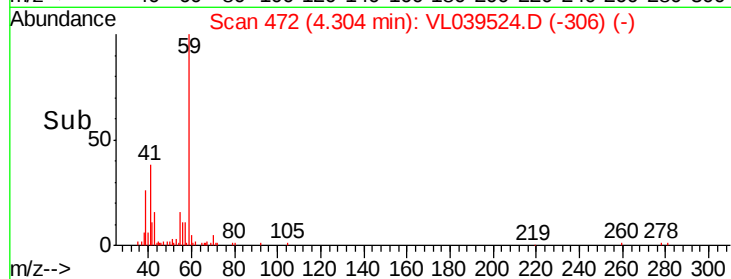
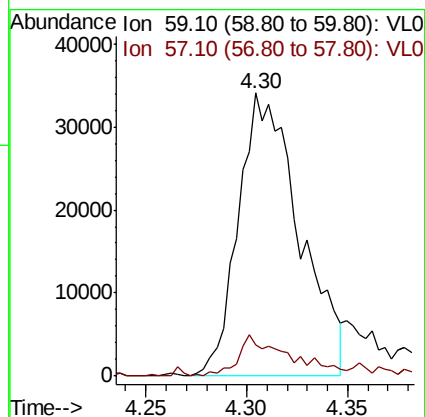
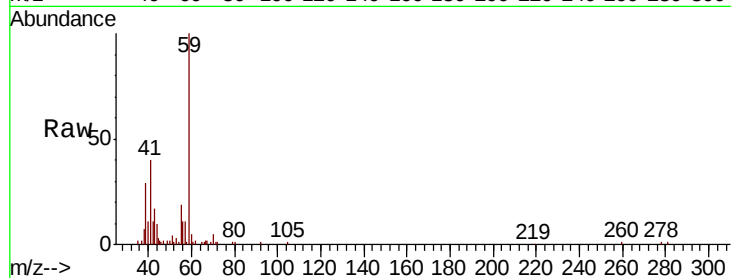
Acq: 25 Jul 2022 20:04 ENV-DE-5-SVDL

Tot Ion: 59 Resp: 72229

Ion Ratio Lower Upper

59 100

57 15.1 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 0.254 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.03 min

Lab File: VL039524.D

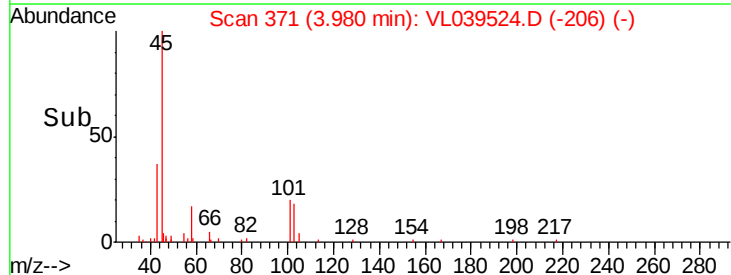
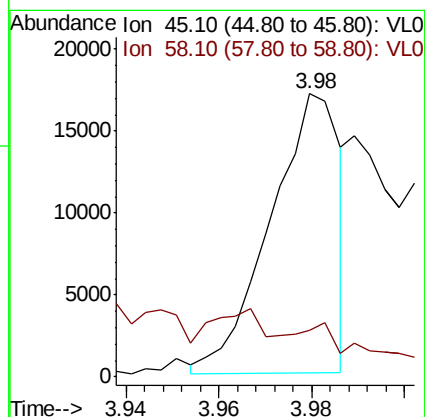
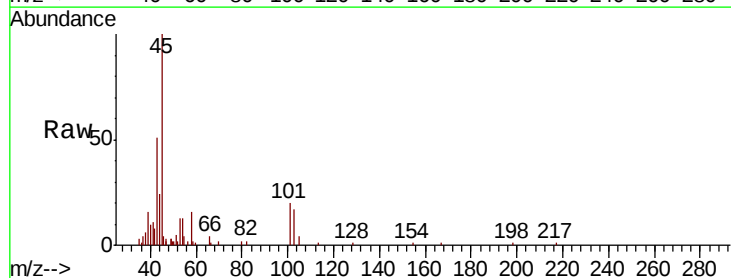
Acq: 25 Jul 2022 20:04

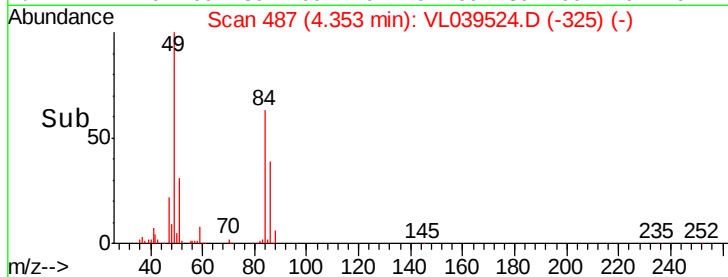
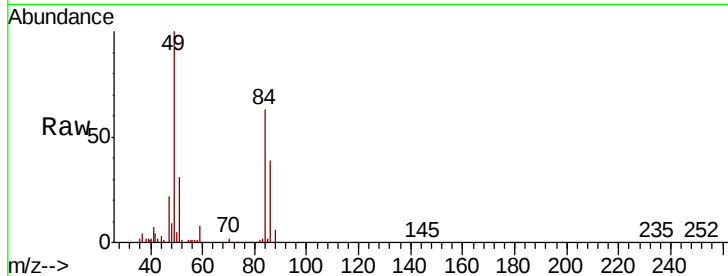
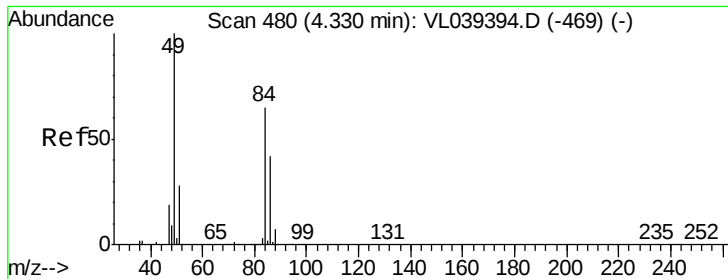
Tgt Ion: 45 Resp: 17685

Ion Ratio Lower Upper

45 100

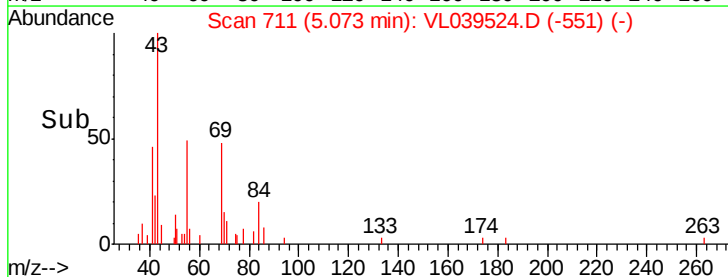
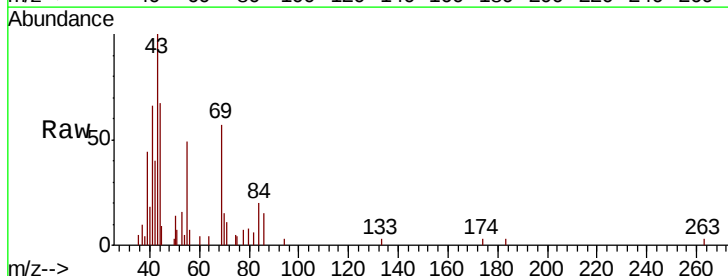
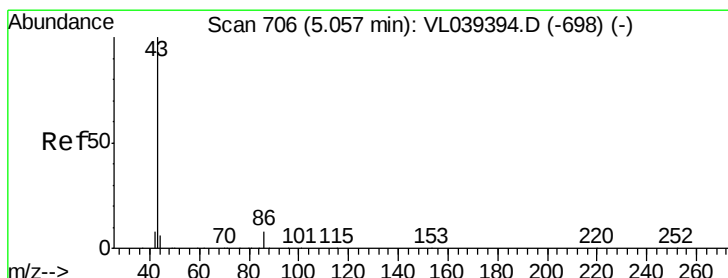
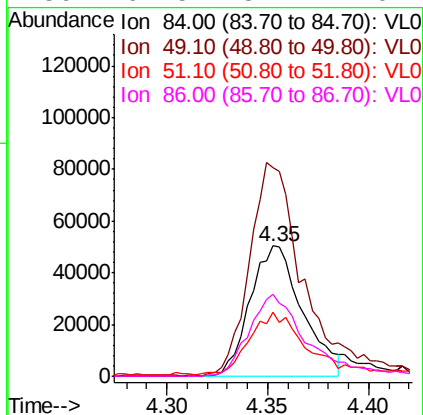
58 40.5 3.2 4.8#





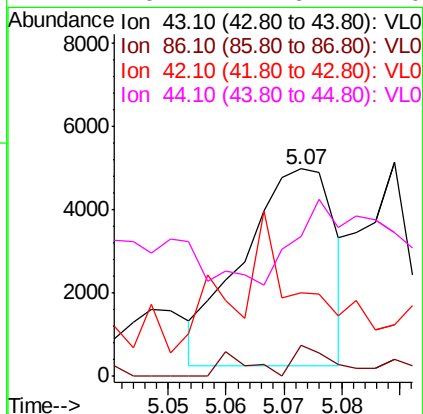
#20
Methvlene Chloride
Concen: 1.756 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Jul 2022 20:04

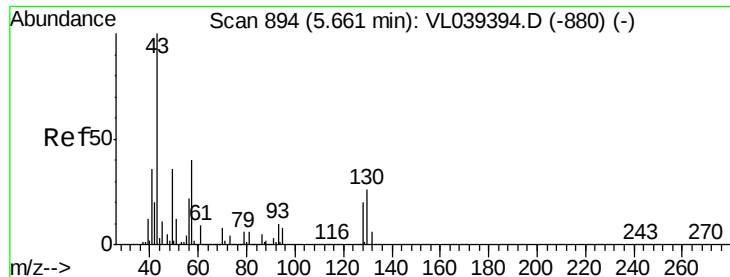
Tot Ion: 84 Resp: 91334
Ion Ratio Lower Upper
84 100
49 159.2 123.1 184.7
51 47.5 34.4 51.6
86 62.5 51.1 76.7



#23
Vinyl Acetate
Concen: 0.059 ppbv
RT: 5.07 min Scan# 711
Delta R.T. 0.02 min
Lab File: VL039524.D
Acq: 25 Jul 2022 20:04

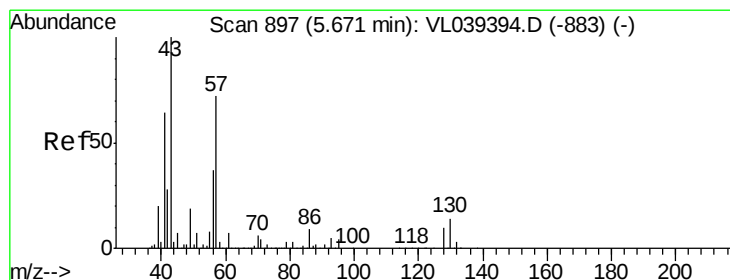
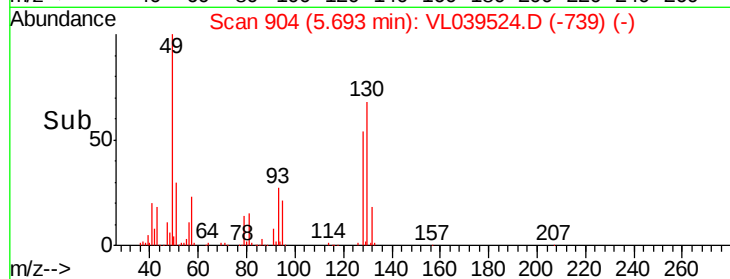
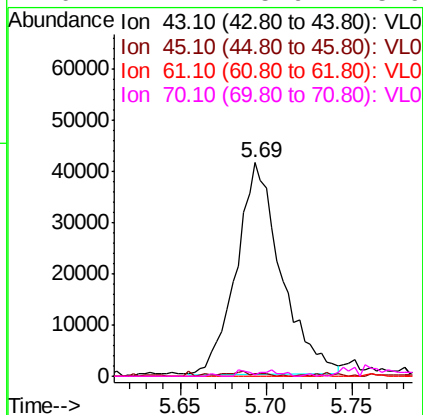
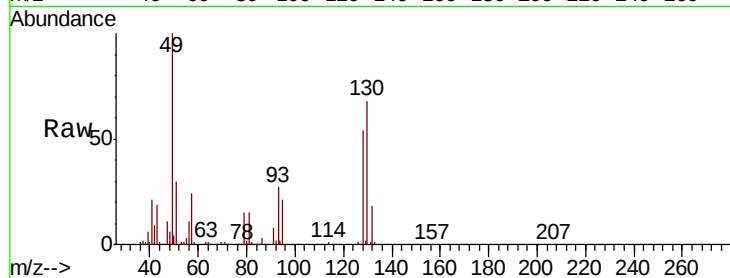
Tgt Ion: 43 Resp: 5158
Ion Ratio Lower Upper
43 100
86 20.4 5.0 7.6#
42 27.1 7.7 11.5#
44 16.4 4.6 7.0#





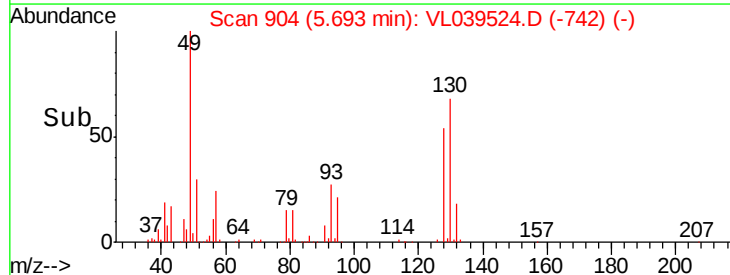
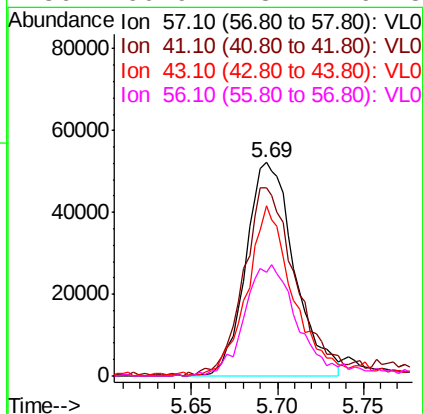
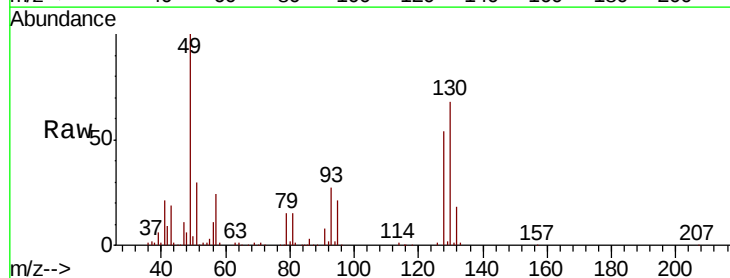
#25
Ethyl Acetate
Concen: 0.280 ppbv
RT: 5.69 min
Delta R.T.: 0.02 min
Lab File: VL039524.D
Acq: 25 Jul 2022 20:04

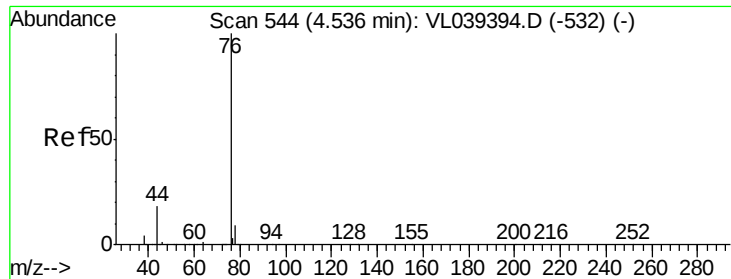
Tot Ion:	43	Resp:	74885
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.2	12.4#
61	0.0	8.3	12.5#
70	2.2	5.9	8.9#



#26
Hexane
Concen: 0.944 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.02 min
Lab File: VL039524.D
Acq: 25 Jul 2022 20:04

Tgt Ion:	57	Resp:	101826
Ion	Ratio	Lower	Upper
57	100		
41	97.0	76.9	115.3
43	81.3	191.0	286.6#
56	60.9	43.2	64.8





#27

Carbon Disulfide

Concen: 0.072 ppbv

RT: 4.55 Instrument:

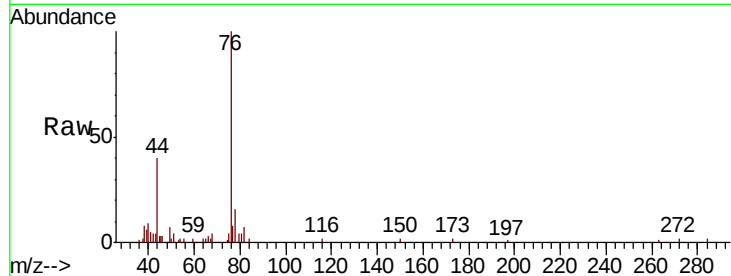
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

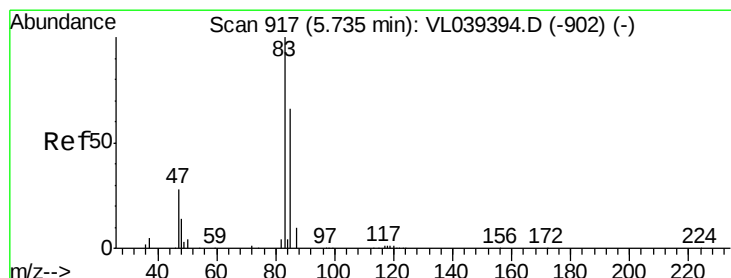
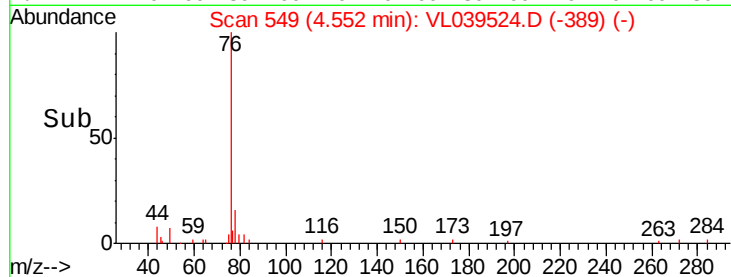
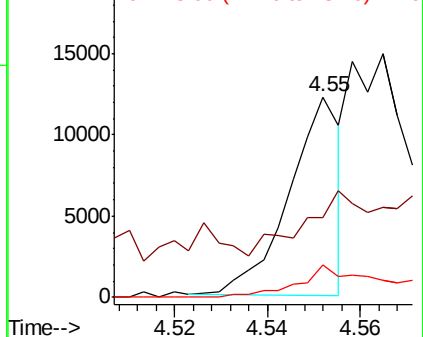
Acq: 25 Jul 2022 20:04 ENV-DE-5-SVDL

Tot Ion: 76 Resp: 9342

Ion	Ratio	Lower	Upper
76	100		
44	103.5	14.6	21.8#
78	34.8	7.8	11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 1.937 ppbv

RT: 5.76 min Scan# 925

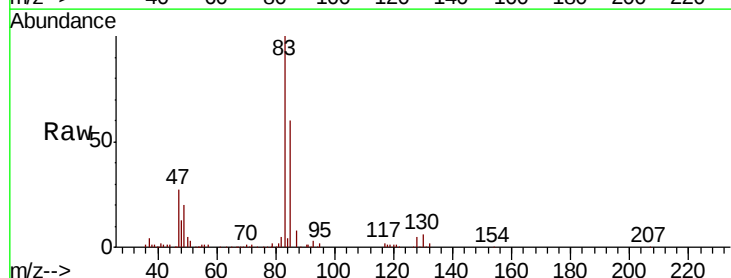
Delta R.T. 0.03 min

Lab File: VL039524.D

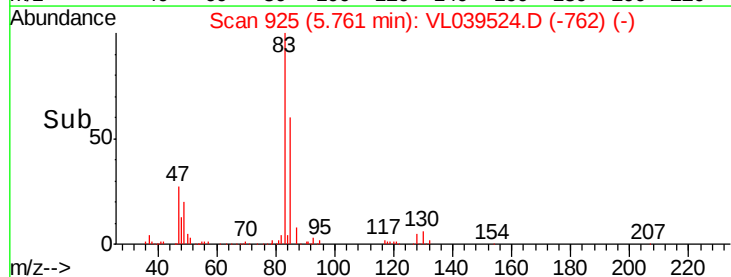
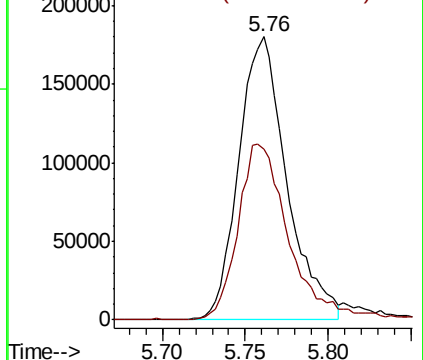
Acq: 25 Jul 2022 20:04

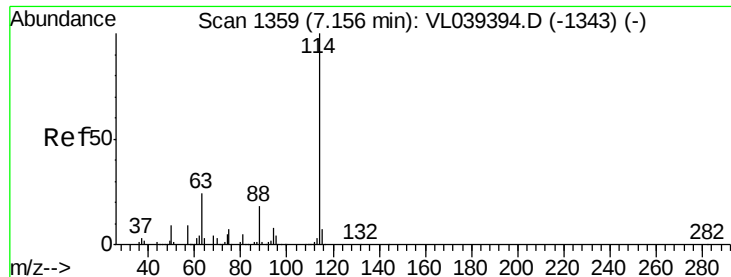
Tgt Ion: 83 Resp: 363379

Ion	Ratio	Lower	Upper
83	100		
85	60.1	52.8	79.2



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

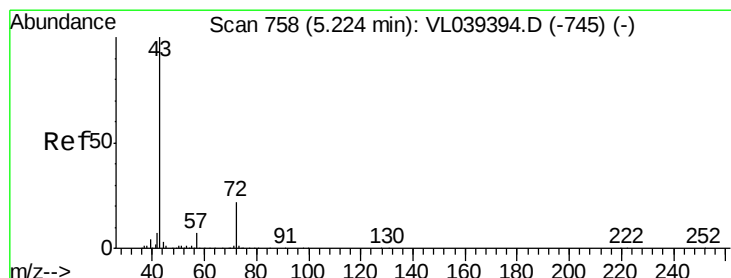
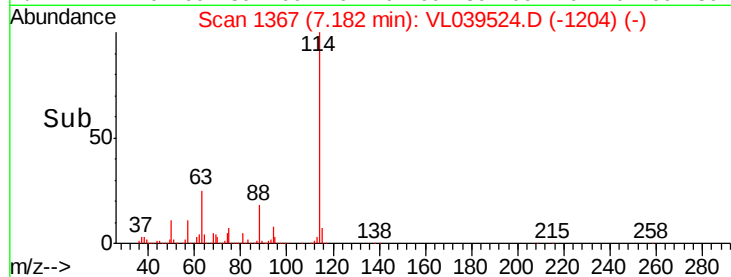
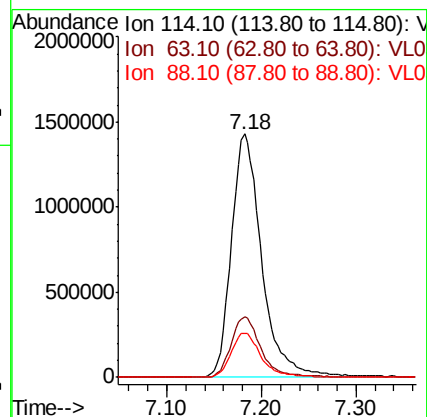
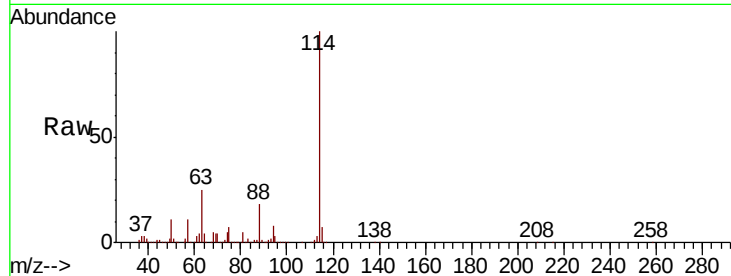




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min
 Delta R.T.: 0.04 min
 Lab File: VL039524.D
 Acq: 25 Jul 2022 20:04

Tot Ion: 114 Resp: 3179864

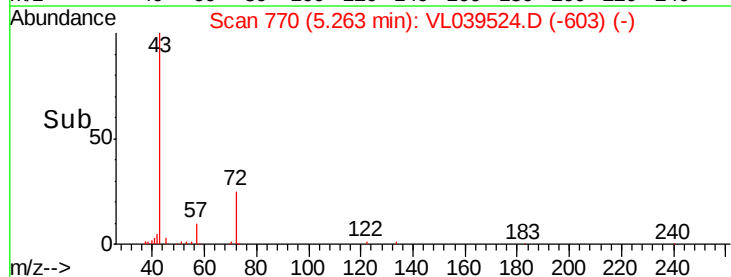
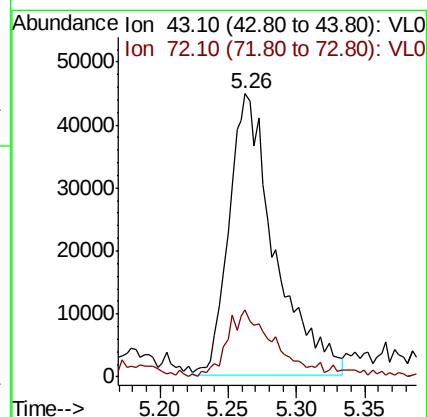
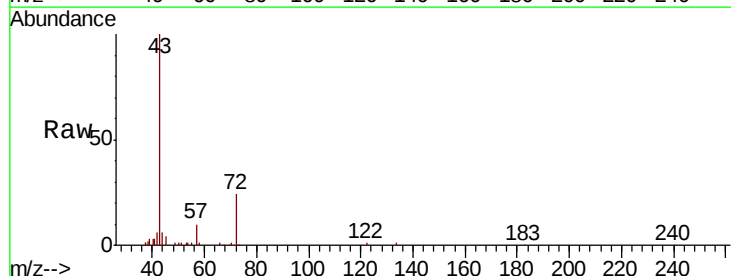
Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.4
88	18.2	14.5	21.7

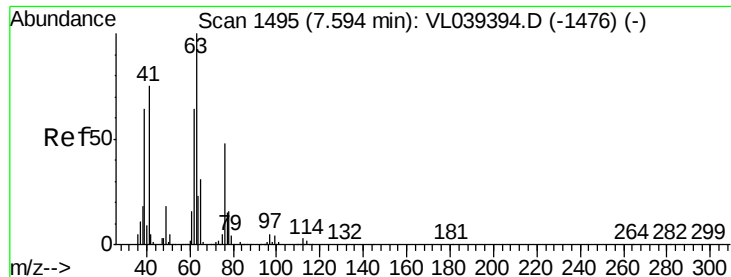


#34
 2-Butanone
 Concen: 0.653 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T.: 0.04 min
 Lab File: VL039524.D
 Acq: 25 Jul 2022 20:04

Tgt Ion: 43 Resp: 104545

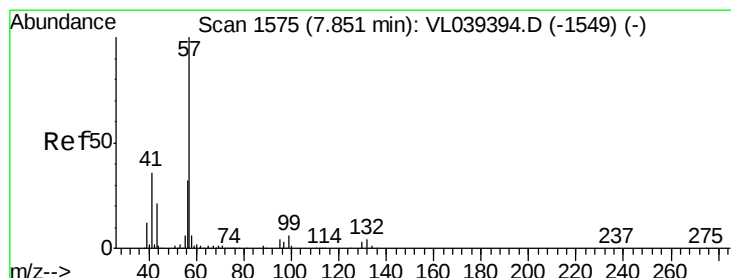
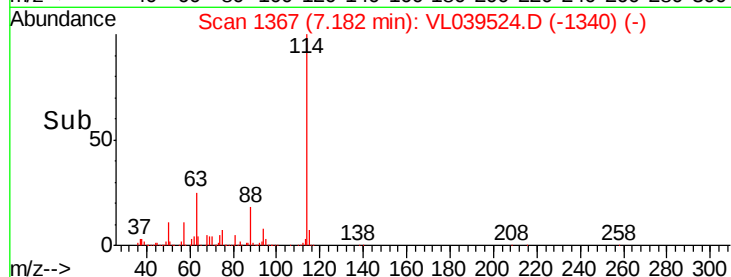
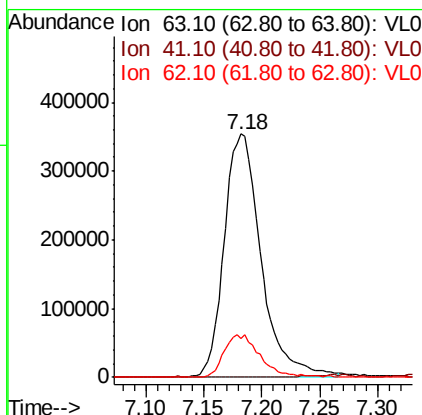
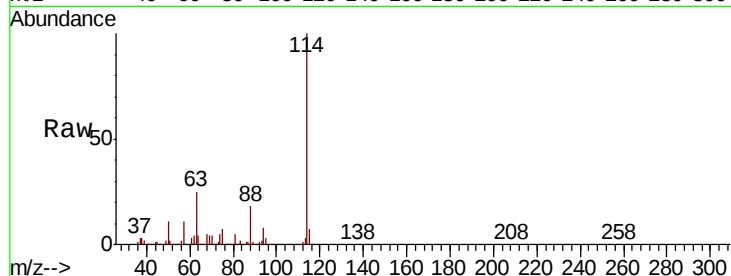
Ion	Ratio	Lower	Upper
43	100		
72	25.0	17.9	26.9





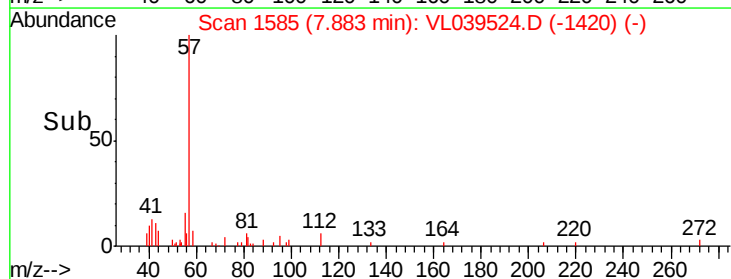
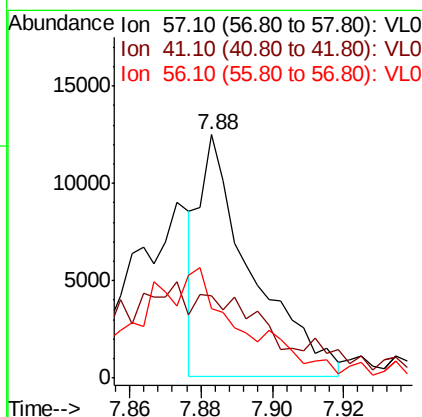
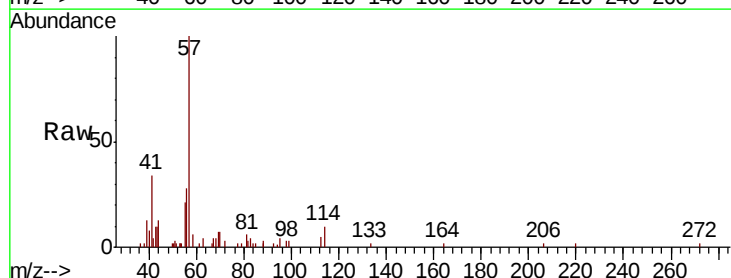
#39
 1,2-Dichloropropane
 Concen: 8.495 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jul 2022 20:04

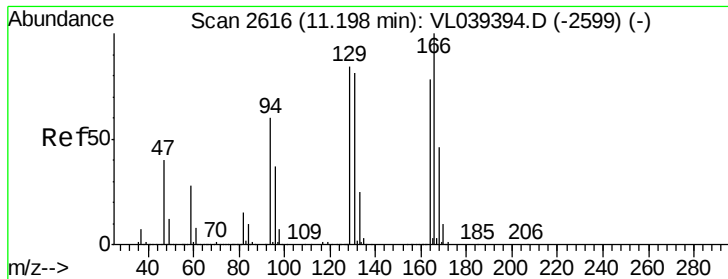
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	59.6	89.4#
62	15.7	51.4	77.0#



#44
 2,2,4-Trimethylpentane
 Concen: 0.030 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.03 min
 Lab File: VL039524.D
 Acq: 25 Jul 2022 20:04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.4	41.2#
56	98.9	24.5	36.7#





#52

Tetrachloroethene

Concen: 0.153 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Jul 2022 20:04

Tot Ion:164 Resp: 15152

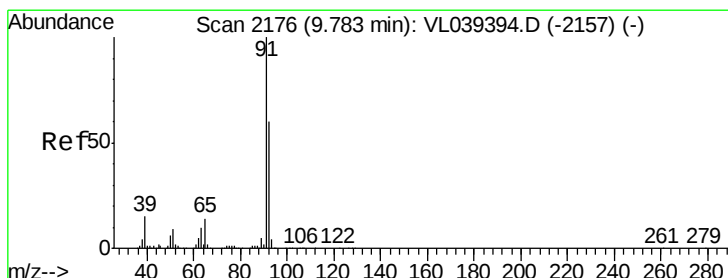
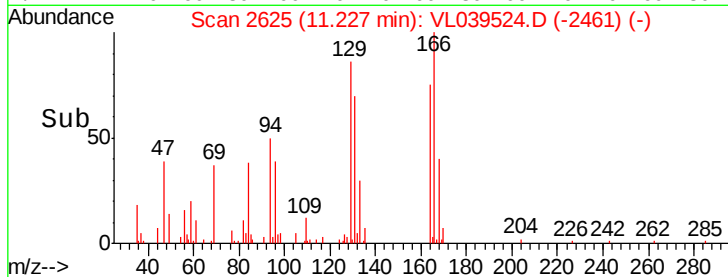
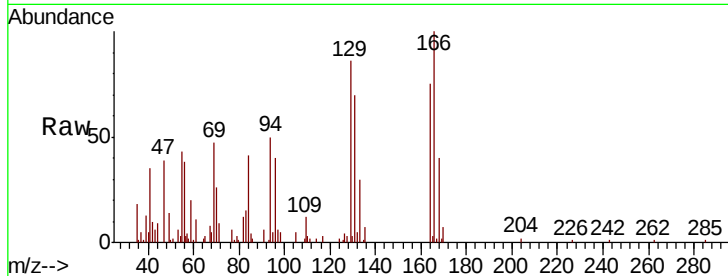
Ion Ratio Lower Upper

164 100

166 133.3 102.2 153.2

129 116.4 85.8 128.8

131 93.4 83.3 124.9



#53

Toluene

Concen: 0.067 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL039524.D

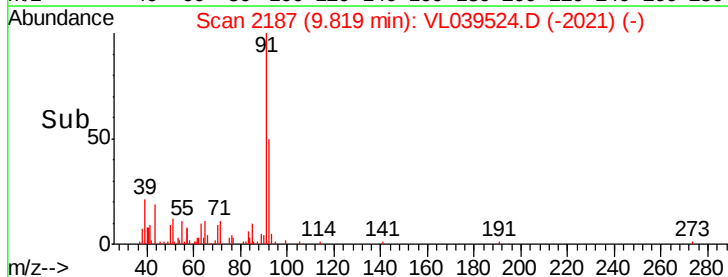
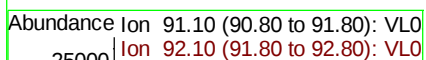
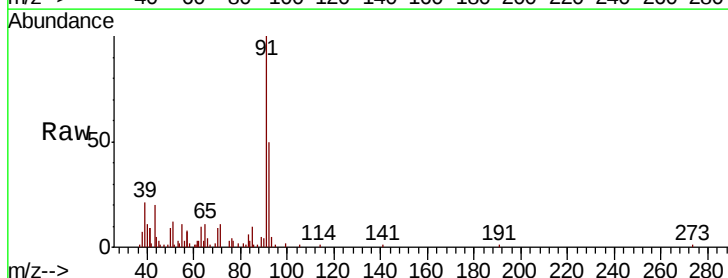
Acq: 25 Jul 2022 20:04

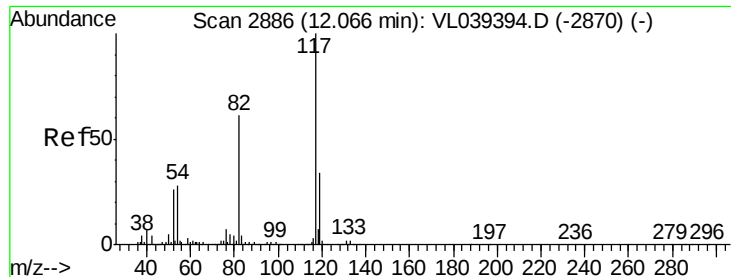
Tgt Ion: 91 Resp: 19032

Ion Ratio Lower Upper

91 100

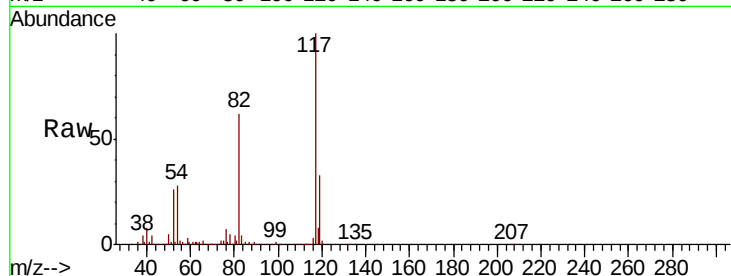
92 150.8 48.2 72.2#



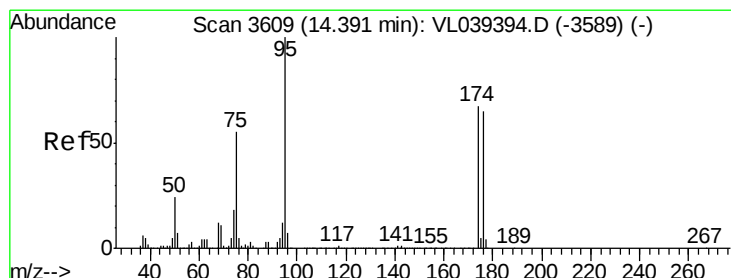
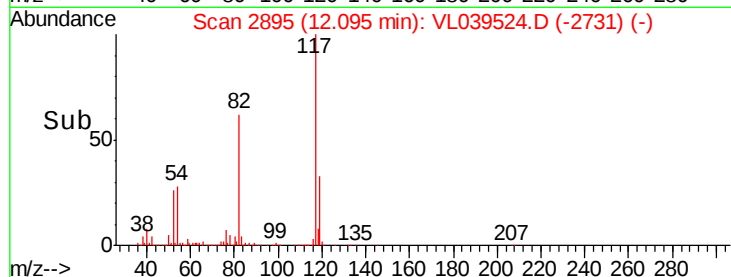
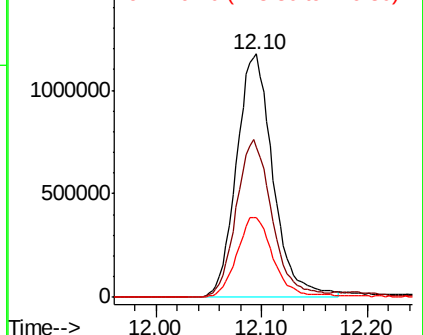


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min
 Instrument: MSVOA_1
 Delta R.T.: 0.03 min
 Lab File: ClientSampleId : ENV-DE-5-SVDL
 Acq: 25 Jul 2022 20:04

Tot Ion: 117 Resp: 2830256
 Ion Ratio Lower Upper
 117 100
 82 64.5 50.8 76.2
 119 34.0 24.1 36.1

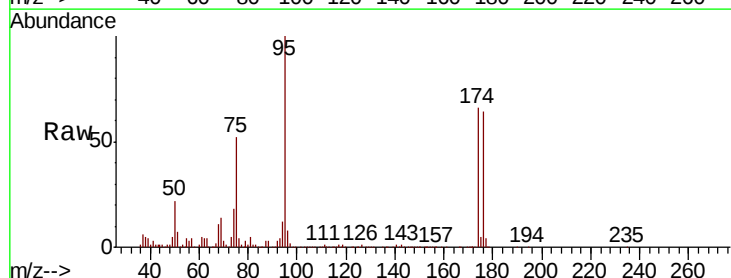


Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): V
 Ion 119.10 (118.80 to 119.80): V

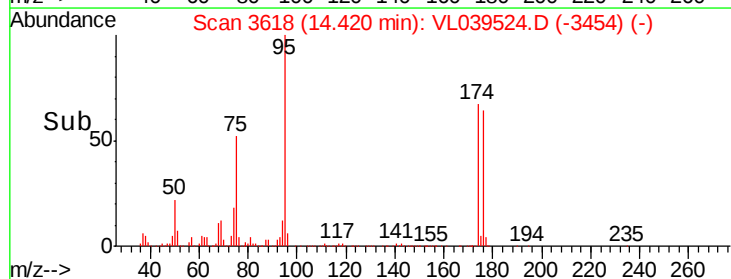
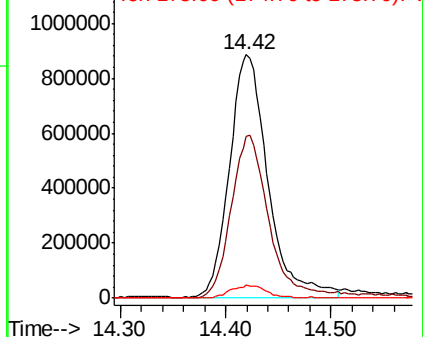


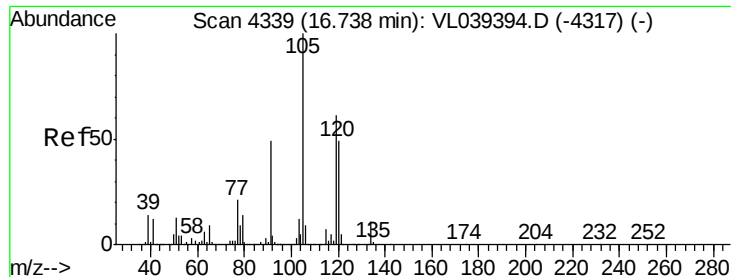
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.678 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T.: 0.03 min
 Lab File: VL039524.D
 Acq: 25 Jul 2022 20:04

Tgt Ion: 95 Resp: 2241903
 Ion Ratio Lower Upper
 95 100
 174 68.9 55.9 83.9
 175 5.3 4.2 6.4



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





#74
 1,2,4-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jul 2022 20:04

Tot Ion:	105	Resp:	11841
Ion Ratio	Lower	Upper	
105	100		
120	27.6	39.5	59.3#
91	11.2	39.2	58.8#
77	12.5	17.2	25.8#

