

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072522\
 Data File : VL039530.D
 Acq On : 26 Jul 2022 00:10
 Operator : SY/AP
 Sample : N3842-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

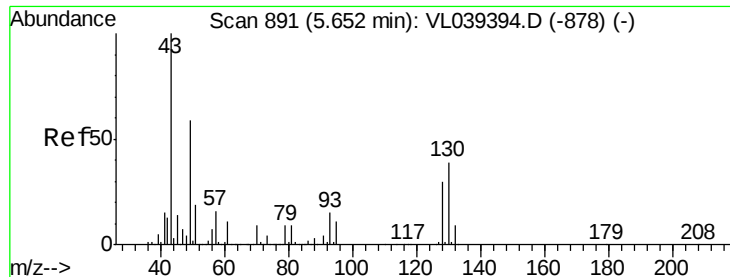
Quant Time: Jul 26 08:07:29 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1129311	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3034111	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	2690978	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.42	95	1974415	9.89	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	31855	0.222	ppbv #	69
4) Chloromethane	3.14	50	2581	0.033	ppbv #	73
9) Propene	3.03	41	23473	0.363	ppbv	94
13) Ethanol	3.60	45	843050	224.577	ppbv	77
15) Acetone	3.85	43	347797	2.603	ppbv	95
19) Isopropyl Alcohol	3.97	45	160186	2.248	ppbv #	97
20) Methylene Chloride	4.35	84	227141	4.265	ppbv	97
23) Vinyl Acetate	5.07	43	15998	0.179	ppbv #	69
25) Ethyl Acetate	5.69	43	140659	0.513	ppbv #	85
26) Hexane	5.69	57	152049	1.377	ppbv #	50
29) Chloroform	5.76	83	25889	0.135	ppbv	93
34) 2-Butanone	5.26	43	17489	0.115	ppbv #	47
39) 1,2-Dichloropropane	7.18	63	745355	8.496	ppbv #	25
75) 1,3-Dichlorobenzene	17.14	146	106430	0.515	ppbv	85
76) 1,4-Dichlorobenzene	17.14	146	106430	0.520	ppbv	88

(#) = 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: ClientSampleId:

Acq: 26 Jul 2022 00:10

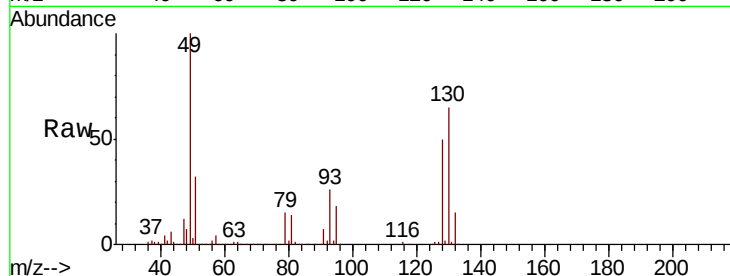
Tot Ion: 49 Resp: 1129311

Ion	Ratio	Lower	Upper
49	100		
128	51.8	26.7	80.0
130	66.8	34.3	102.8

49 100

128 51.8 26.7 80.0

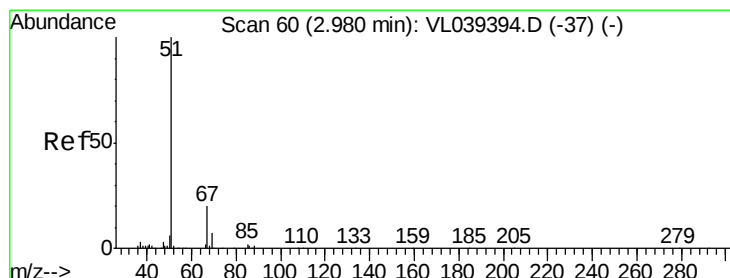
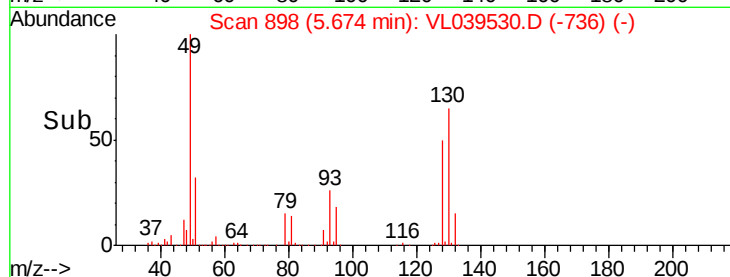
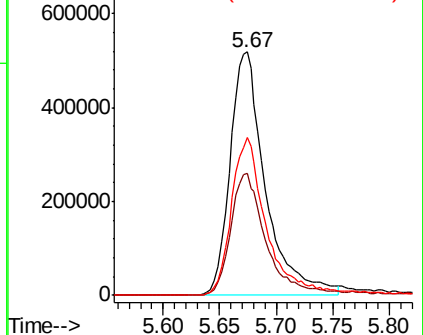
130 66.8 34.3 102.8



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



#3

Chlorodifluoromethane

Concen: 0.222 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL039530.D

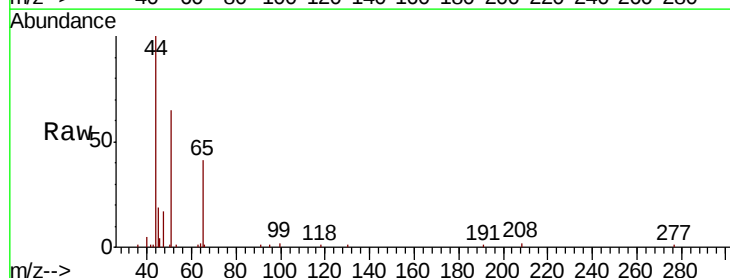
Acq: 26 Jul 2022 00:10

Tgt Ion: 51 Resp: 31855

Ion	Ratio	Lower	Upper
51	100		
67	5.3	15.7	23.5

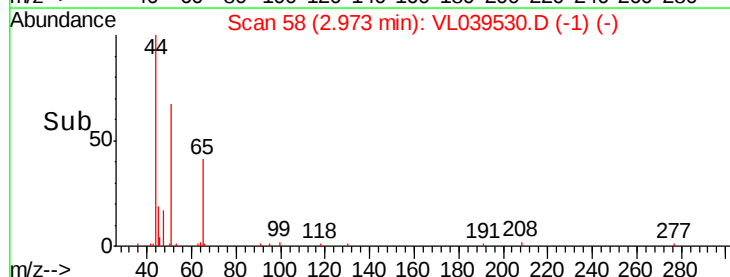
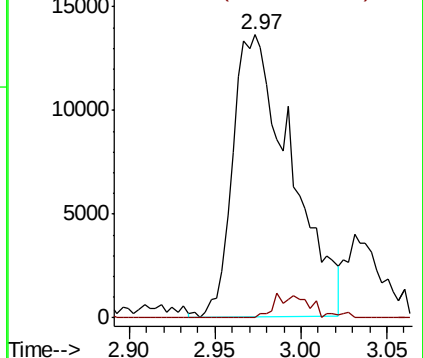
51 100

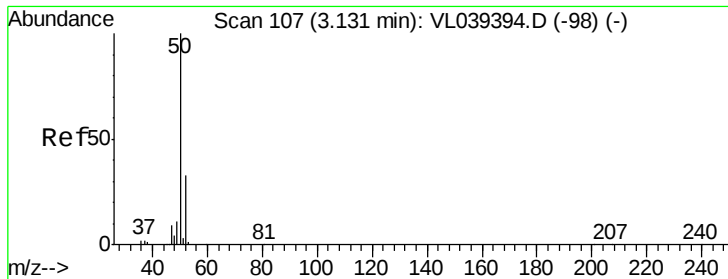
67 5.3 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

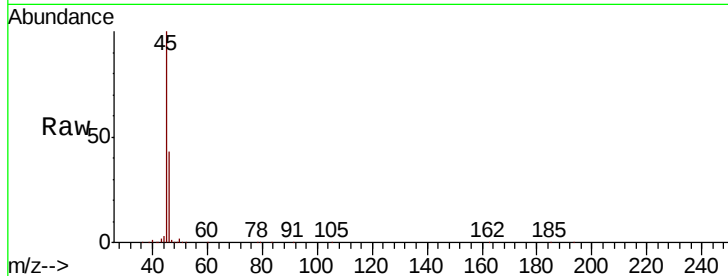
Acq: 26 Jul 2022 00:10

Tot Ion: 50 Resp: 2581

Ion Ratio Lower Upper

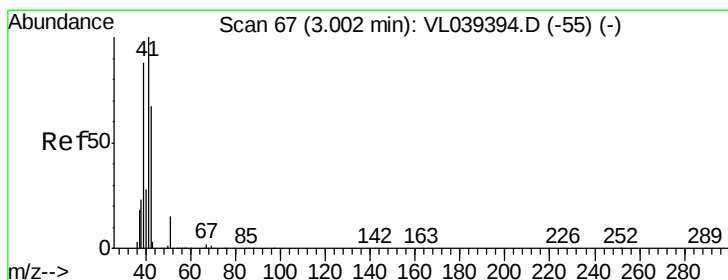
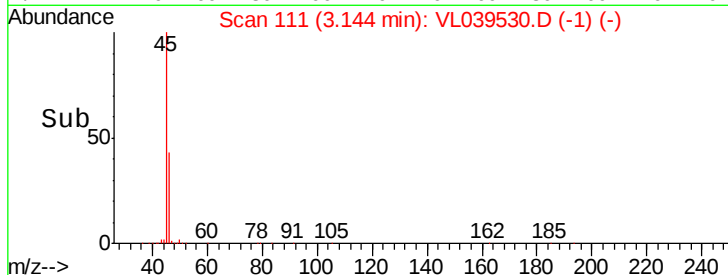
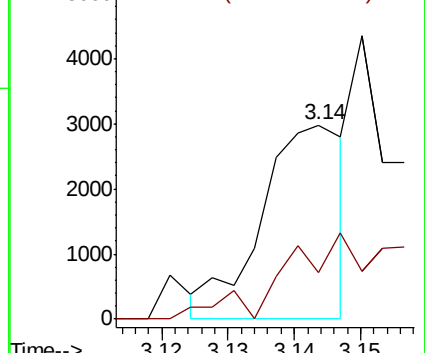
50 100

52 17.6 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.363 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.03 min

Lab File: VL039530.D

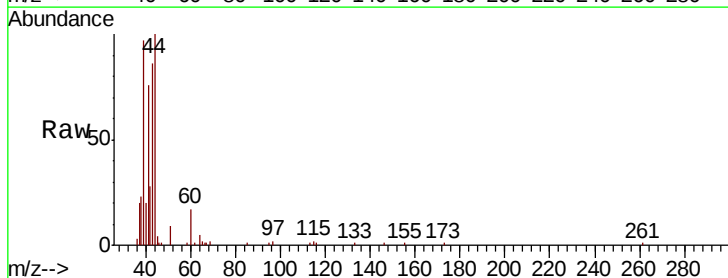
Acq: 26 Jul 2022 00:10

Tgt Ion: 41 Resp: 23473

Ion Ratio Lower Upper

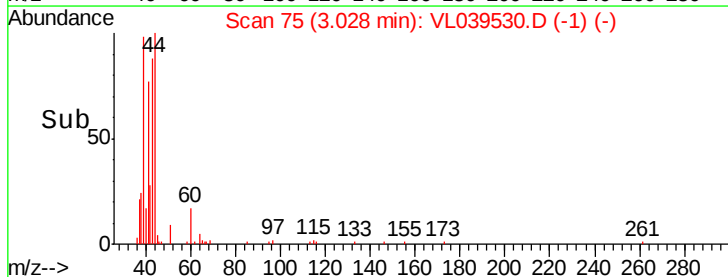
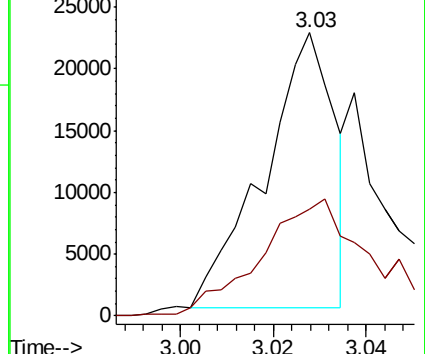
41 100

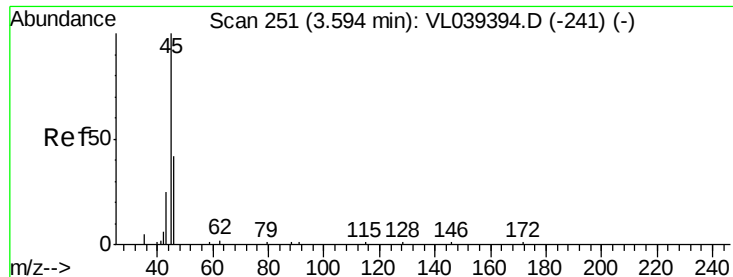
42 74.0 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 224.577 ppbv

RT: 3.60 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

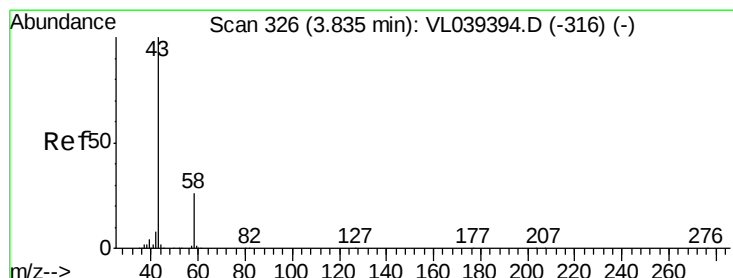
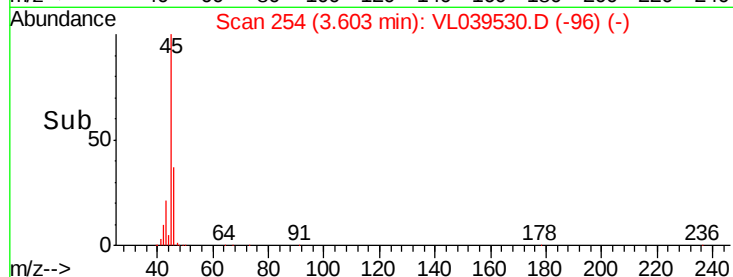
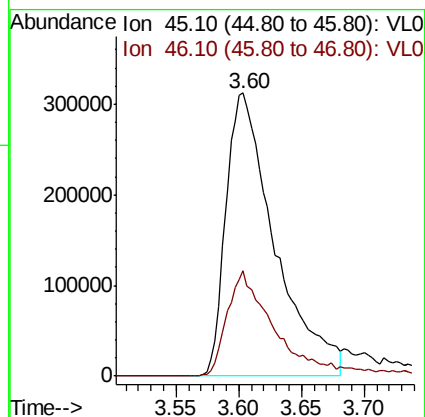
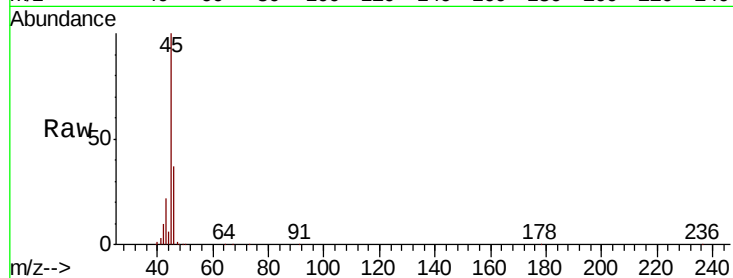
Acq: 26 Jul 2022 00:10

Tot Ion: 45 Resp: 843050

Ion Ratio Lower Upper

45 100

46 40.2 22.8 91.2



#15

Acetone

Concen: 2.603 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL039530.D

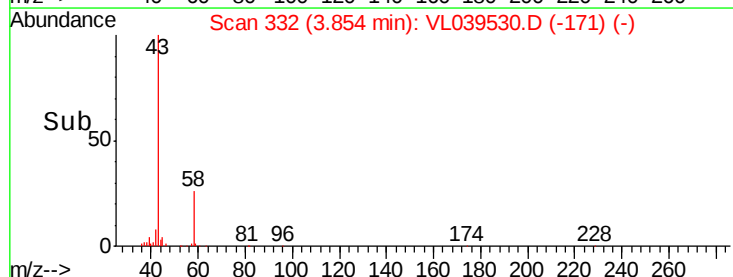
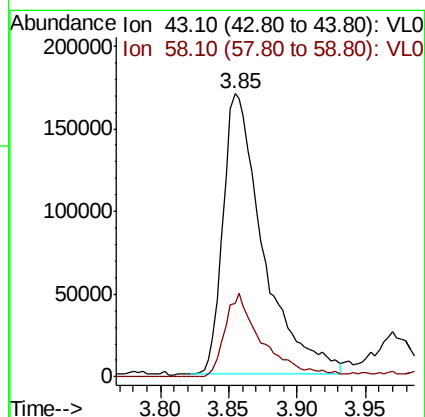
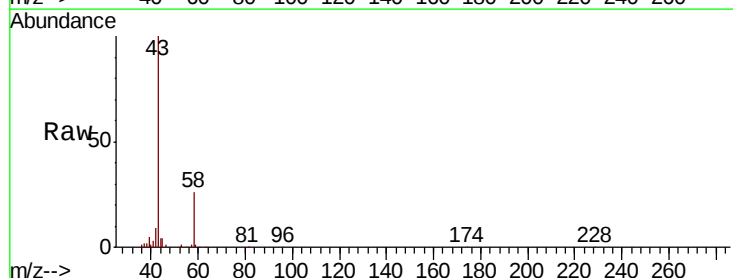
Acq: 26 Jul 2022 00:10

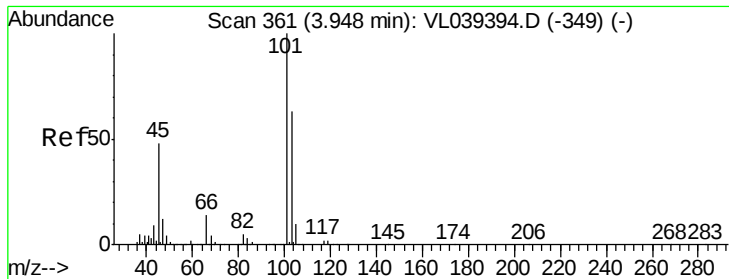
Tgt Ion: 43 Resp: 347797

Ion Ratio Lower Upper

43 100

58 28.8 21.0 31.6





#19

Isopropyl Alcohol

Concen: 2.248 ppbv

RT: 3.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

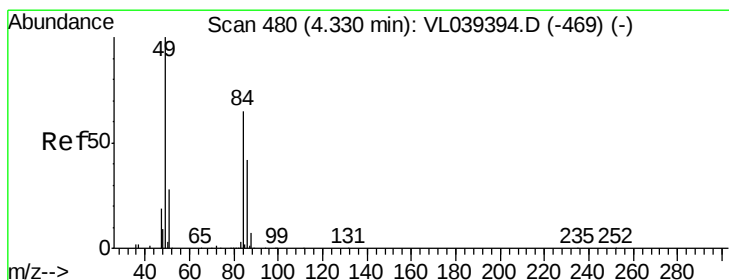
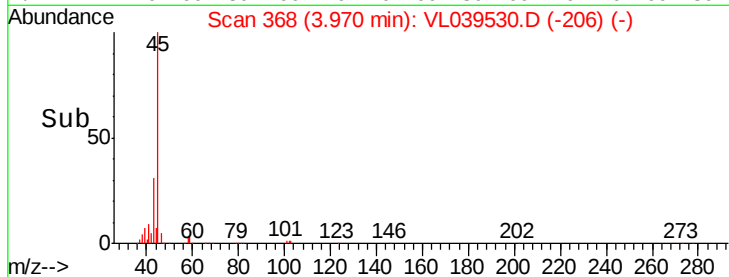
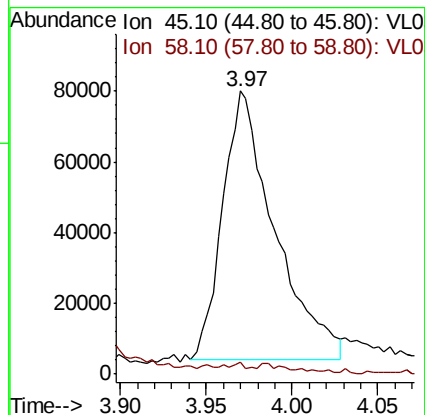
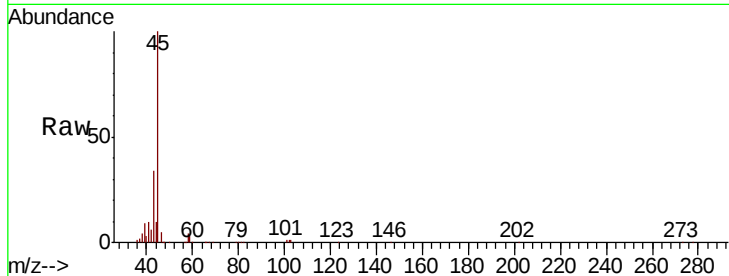
Acq: 26 Jul 2022 00:10

Tot Ion: 45 Resp: 160186

Ion Ratio Lower Upper

45 100

58 5.1 3.2 4.8#



#20

Methylene Chloride

Concen: 4.265 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL039530.D

Acq: 26 Jul 2022 00:10

Tgt Ion: 84 Resp: 227141

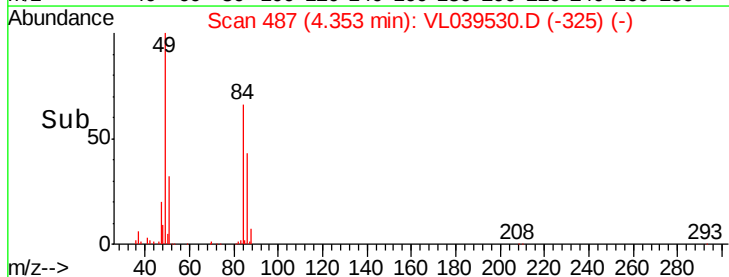
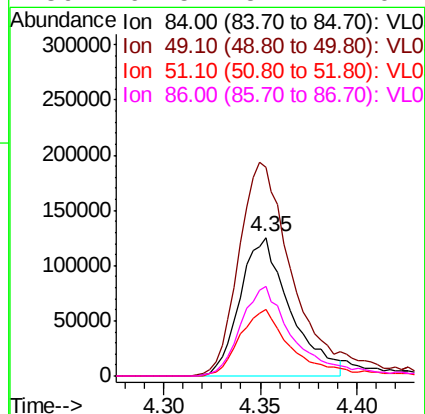
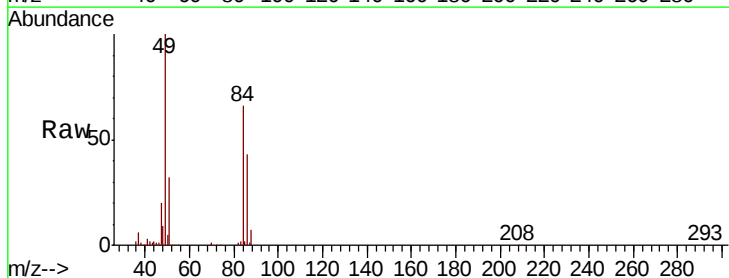
Ion Ratio Lower Upper

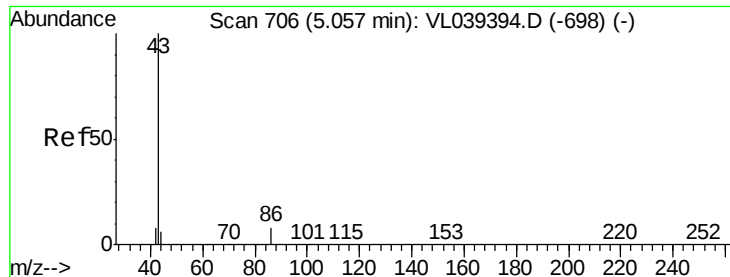
84 100

49 150.7 123.1 184.7

51 47.9 34.4 51.6

86 64.5 51.1 76.7





#23

Vinyl Acetate

Concen: 0.179 ppbv

RT: 5.07 Instrument:

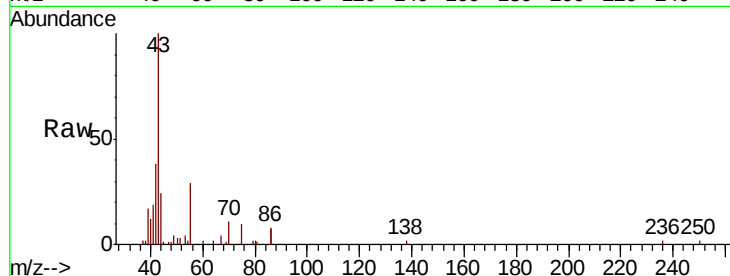
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 26 Jul 2022 00:10

Tot Ion: 43 Resp: 15998

Ion	Ratio	Lower	Upper
43	100		
86	13.9	5.0	7.6#
42	29.3	7.7	11.5#
44	4.8	4.6	7.0

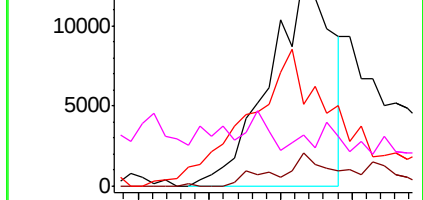


Abundance Ion 43.10 (42.80 to 43.80): VL0

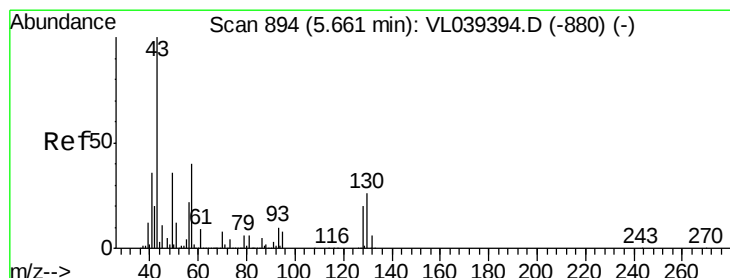
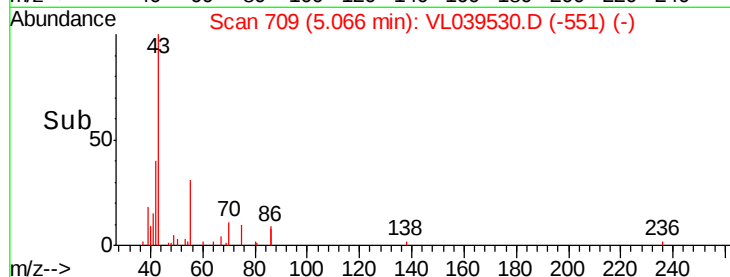
Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



Time-->



#25

Ethyl Acetate

Concen: 0.513 ppbv

RT: 5.69 min Scan# 903

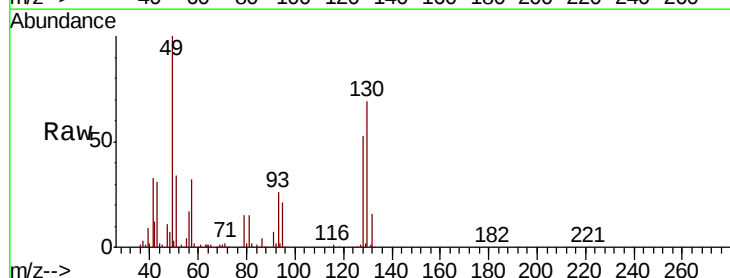
Delta R.T. 0.03 min

Lab File: VL039530.D

Acq: 26 Jul 2022 00:10

Tgt Ion: 43 Resp: 140659

Ion	Ratio	Lower	Upper
43	100		
45	4.5	8.2	12.4#
61	3.7	8.3	12.5#
70	4.1	5.9	8.9#

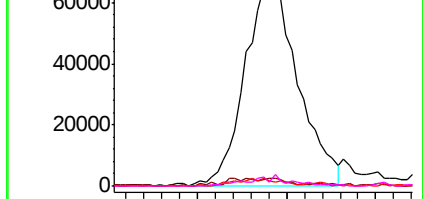


Abundance Ion 43.10 (42.80 to 43.80): VL0

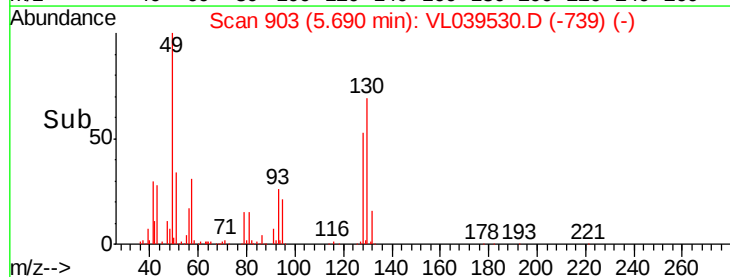
Ion 45.10 (44.80 to 45.80): VL0

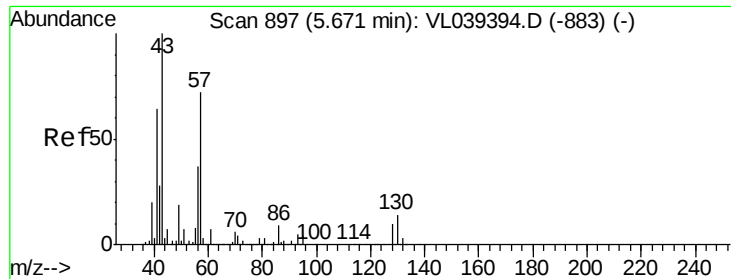
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



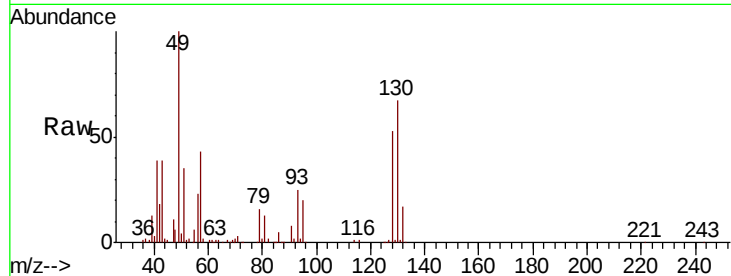
Time-->



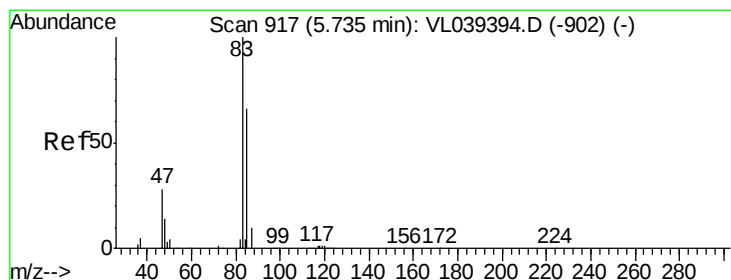
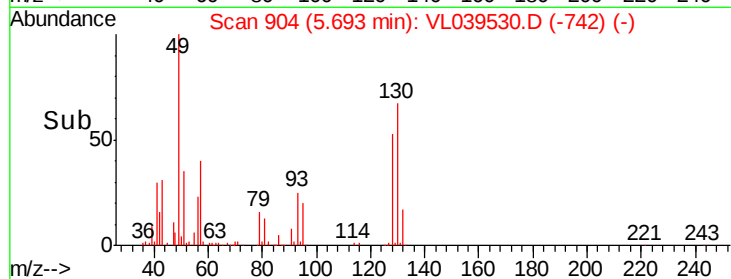
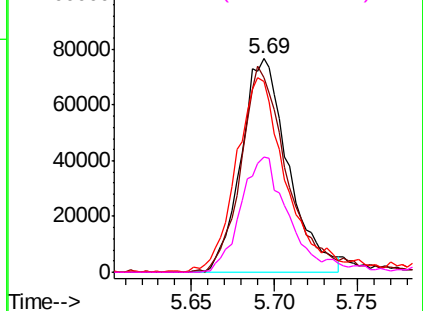


#26
Hexane
Concen: 1.377 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 26 Jul 2022 00:10

Tot Ion:	57	Resp:	152049
Ion	Ratio	Lower	Upper
57	100		
41	98.0	76.9	115.3
43	103.2	191.0	286.6#
56	55.8	43.2	64.8

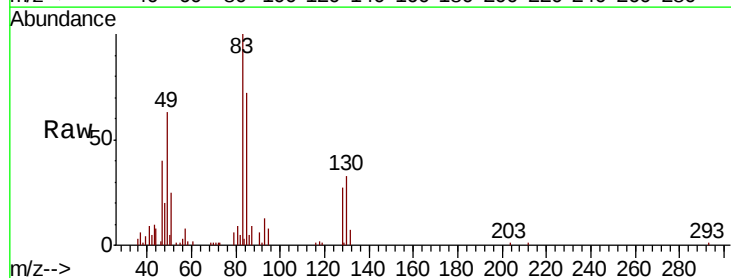


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

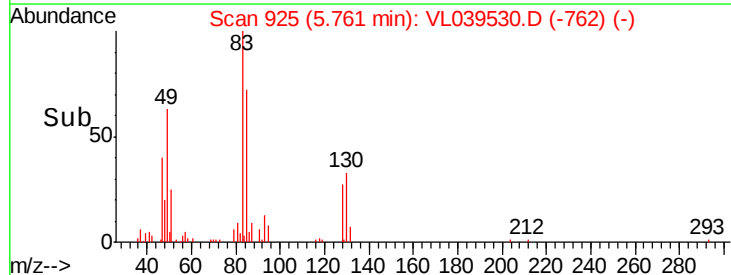
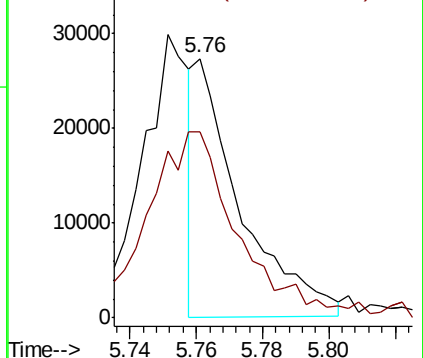


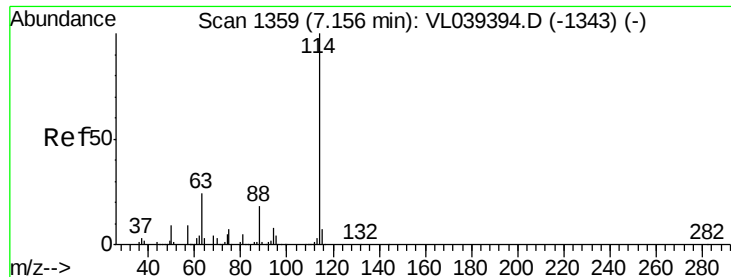
#29
Chloroform
Concen: 0.135 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.03 min
Lab File: VL039530.D
Acq: 26 Jul 2022 00:10

Tgt Ion:	83	Resp:	25889
Ion	Ratio	Lower	Upper
83	100		
85	71.5	52.8	79.2



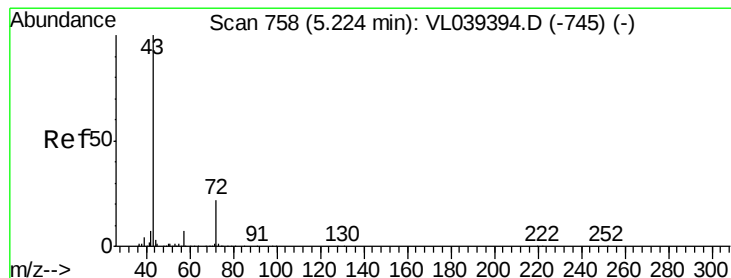
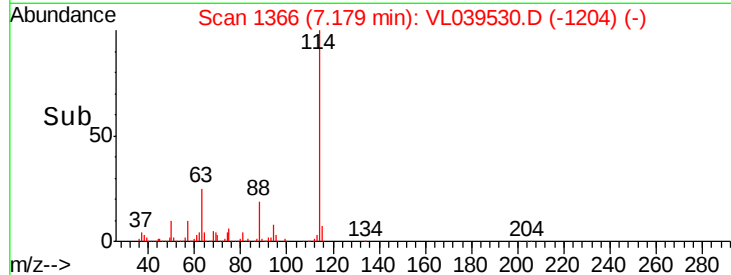
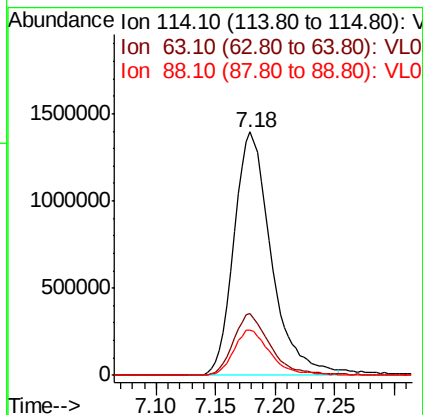
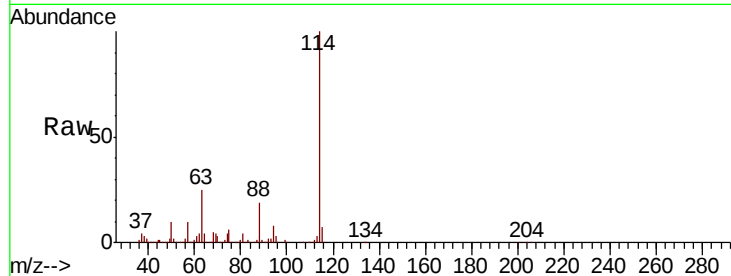
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





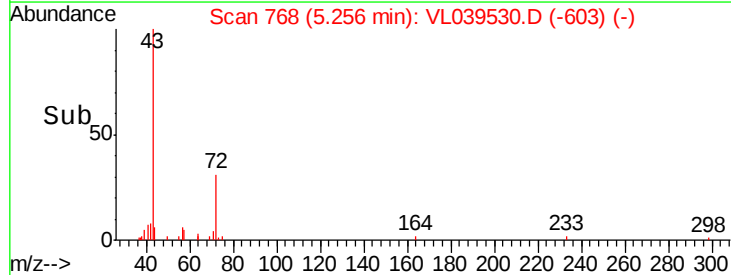
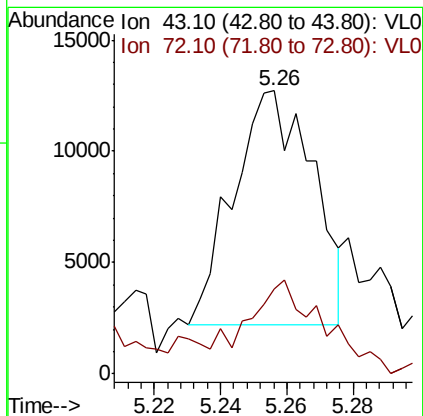
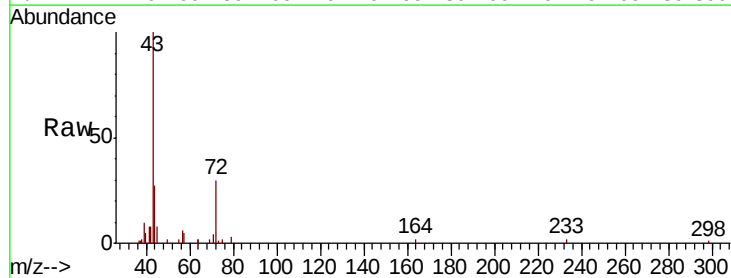
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 26 Jul 2022 00:10

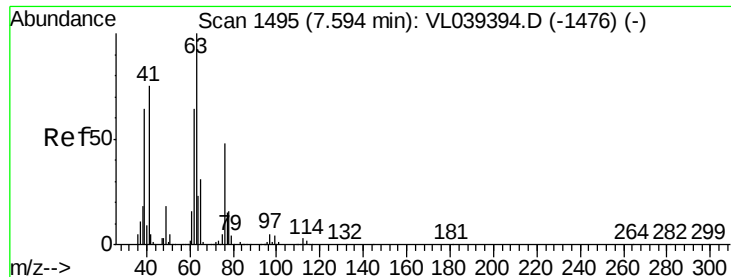
Tot Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.2	30.4
88	18.5	14.5	21.7



#34
 2-Butanone
 Concen: 0.115 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T.: 0.03 min
 Lab File: VL039530.D
 Acq: 26 Jul 2022 00:10

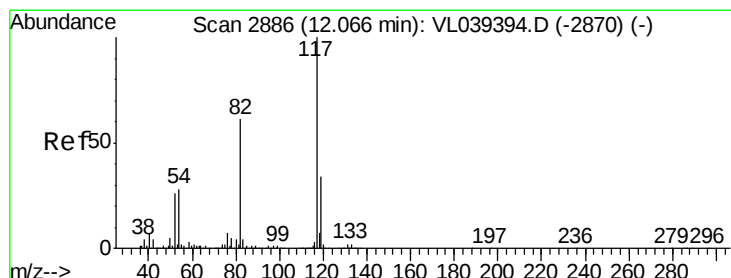
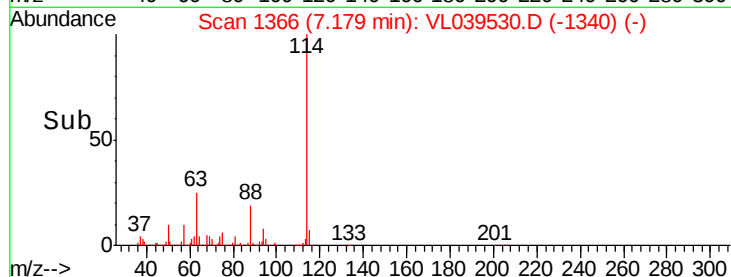
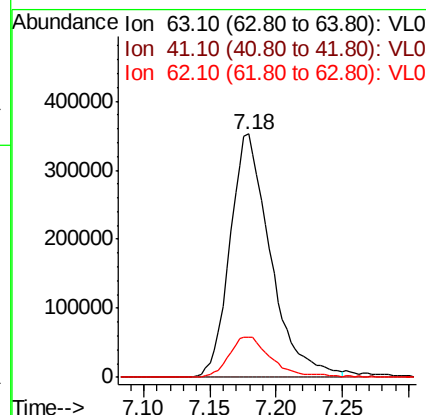
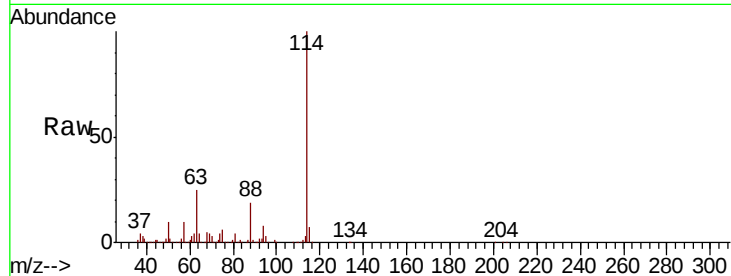
Tgt Ion	Ratio	Lower	Upper
43	100		
72	48.0	17.9	26.9#





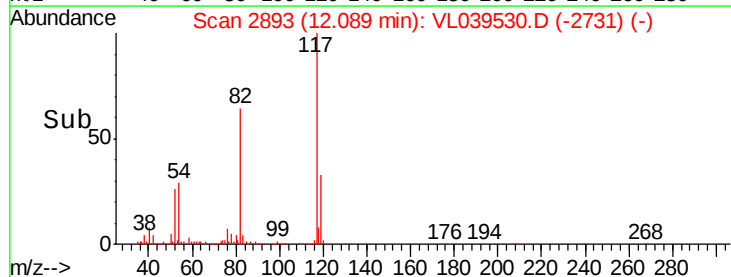
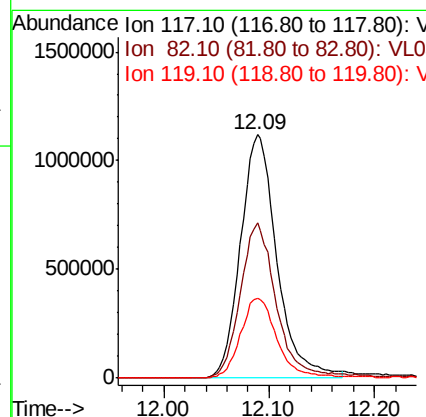
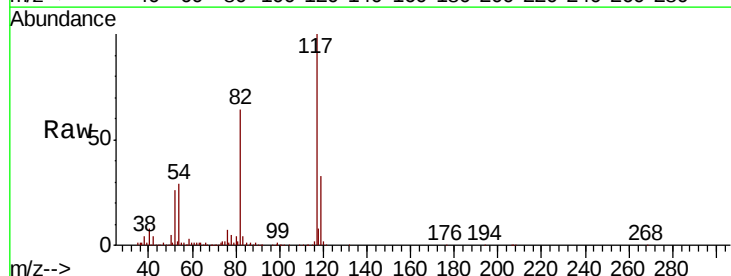
#39
 1,2-Dichloropropane
 Concen: 8.496 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jul 2022 00:10

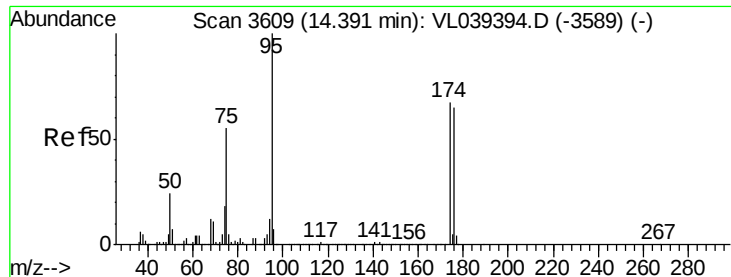
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	59.6	89.4#
62	16.3	51.4	77.0#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2893
 Delta R.T. 0.02 min
 Lab File: VL039530.D
 Acq: 26 Jul 2022 00:10

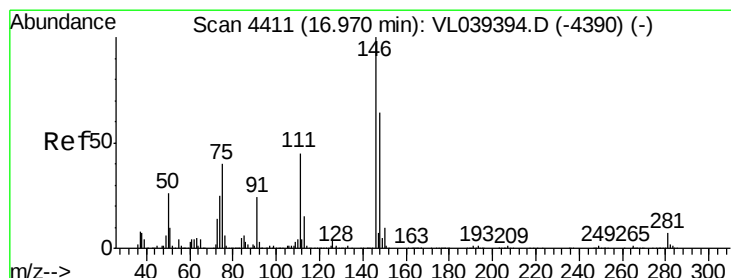
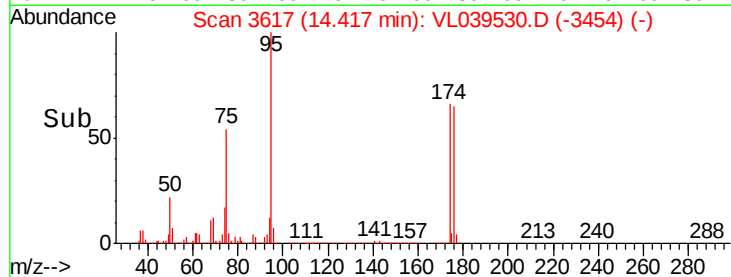
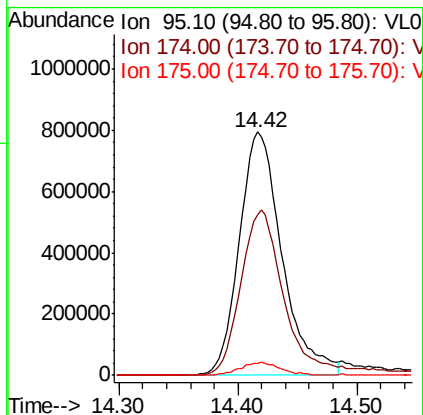
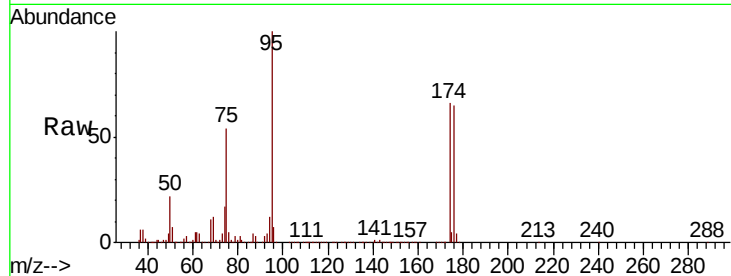
Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.7	50.8	76.2
119	33.5	24.1	36.1





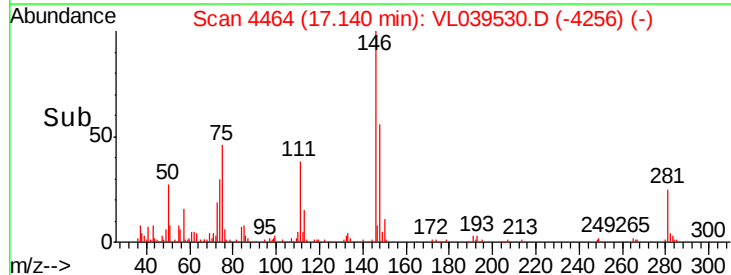
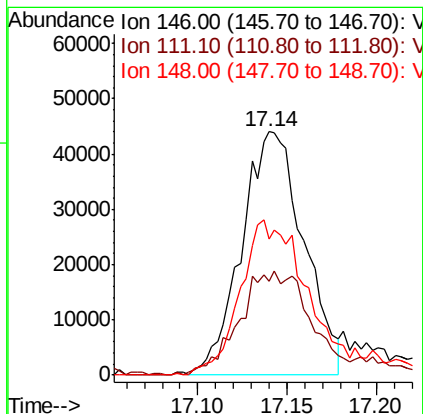
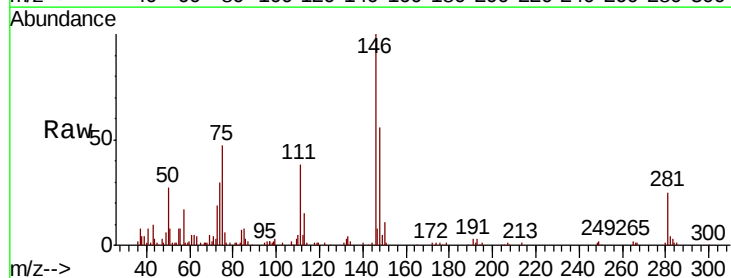
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.890 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jul 2022 00:10

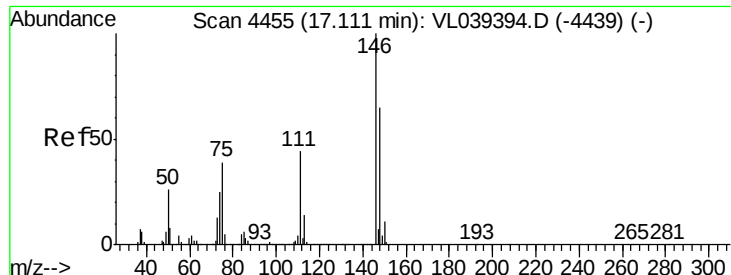
Tot Ion: 95 Resp: 1974415
 Ion Ratio Lower Upper
 95 100
 174 72.9 55.9 83.9
 175 5.4 4.2 6.4



#75
 1,3-Dichlorobenzene
 Concen: 0.515 ppbv
 RT: 17.14 min Scan# 4464
 Delta R.T. 0.17 min
 Lab File: VL039530.D
 Acq: 26 Jul 2022 00:10

Tgt Ion: 146 Resp: 106430
 Ion Ratio Lower Upper
 146 100
 111 55.2 22.9 68.7
 148 76.5 32.1 96.5





#76

1,4-Dichlorobenzene

Concen: 0.520 ppbv

RT: 17.14

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 26 Jul 2022 08:10

Tot Ion:146 Resp: 106430

Ion Ratio Lower Upper

146 100

111 54.6 22.9 68.8

148 76.6 33.6 100.8

