

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051122\
 Data File : VL039028.D
 Acq On : 11 May 2022 20:26
 Operator : SY/AP
 Sample : N2753-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: May 12 01:57:36 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	931680	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2361507	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1978981	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1538943	9.82	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

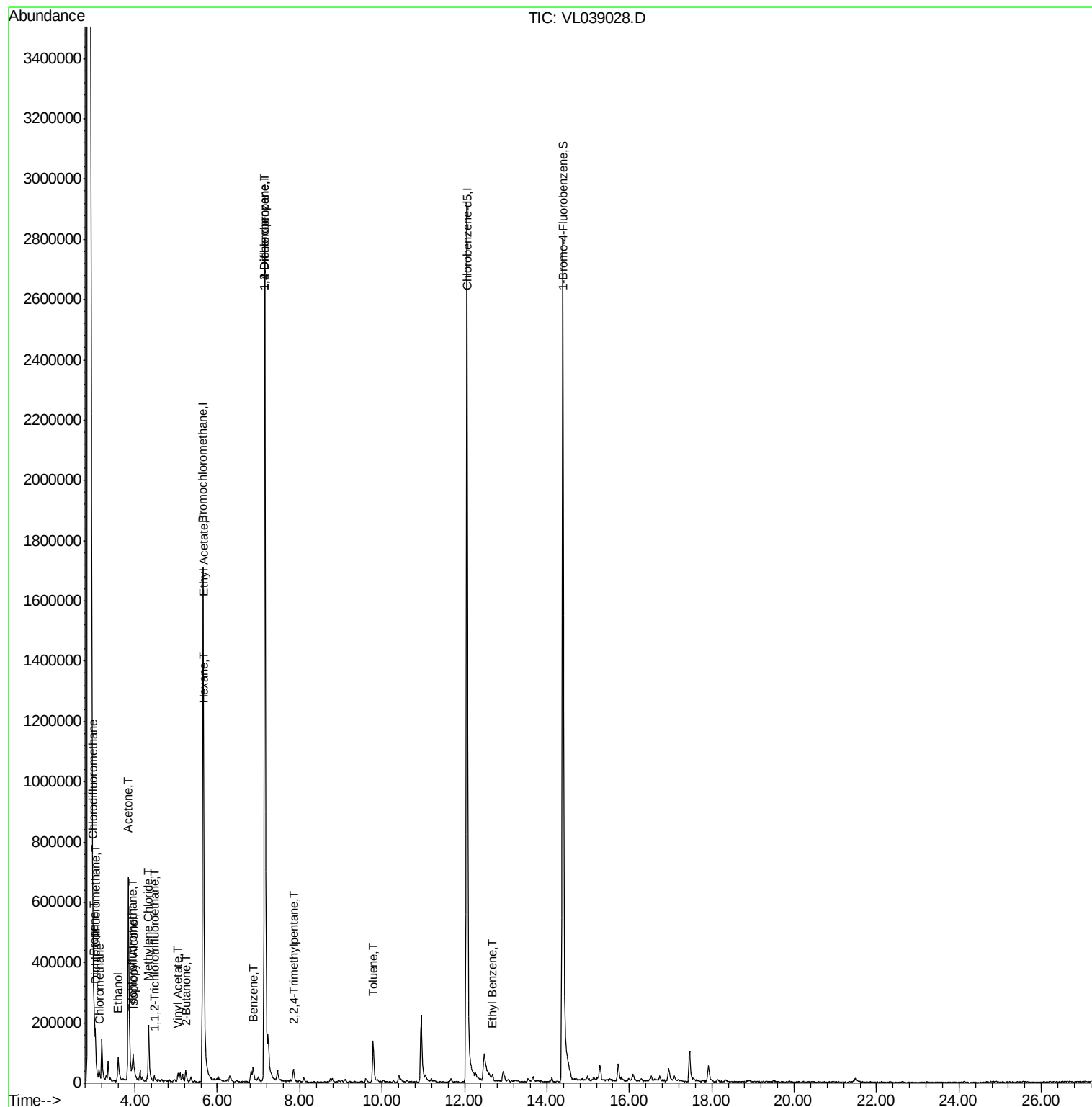
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	93918	0.64	ppbv	97
3) Chlorodifluoromethane	2.98	51	46215	0.40	ppbv #	85
4) Chloromethane	3.13	50	33525	0.58	ppbv	94
9) Propene	3.01	41	12702	0.25	ppbv #	13
11) Trichlorofluoromethane	3.94	101	27494	0.22	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2709	0.03	ppbv #	1
13) Ethanol	3.60	45	33728	9.44	ppbv #	31
15) Acetone	3.84	43	863335	9.82	ppbv	93
19) Isopropyl Alcohol	3.96	45	66506	1.59	ppbv #	95
20) Methylene Chloride	4.33	84	69142	2.09	ppbv	94
23) Vinyl Acetate	5.06	43	6534	0.09	ppbv #	65
25) Ethyl Acetate	5.67	43	73134	0.35	ppbv #	82
26) Hexane	5.67	57	98591	1.05	ppbv #	41
34) 2-Butanone	5.23	43	15360	0.13	ppbv #	54
36) Benzene	6.87	78	18331	0.09	ppbv	92
39) 1,2-Dichloropropane	7.15	63	596325	7.58	ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	39021	0.11	ppbv #	87
53) Toluene	9.78	91	52950	0.23	ppbv	93
58) Ethyl Benzene	12.68	91	14488	0.05	ppbv	90

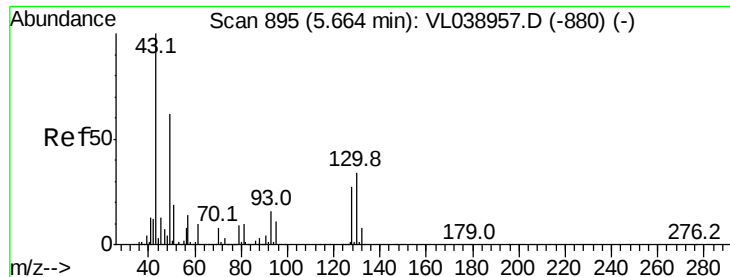
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

Acq: 11 May 2022 20:20

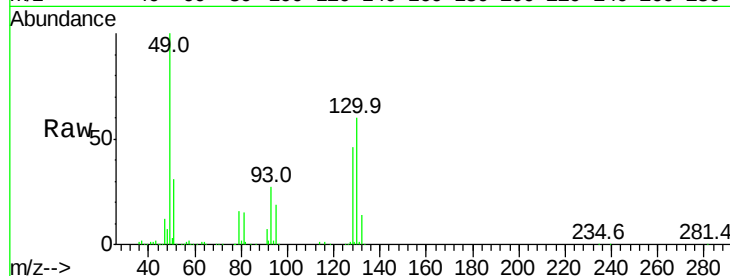
Tgt Ion: 49 Resp: 931680

Ion Ratio Lower Upper

49 100

128 47.5 23.3 69.8

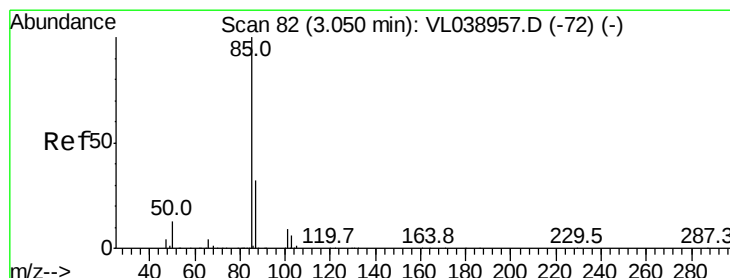
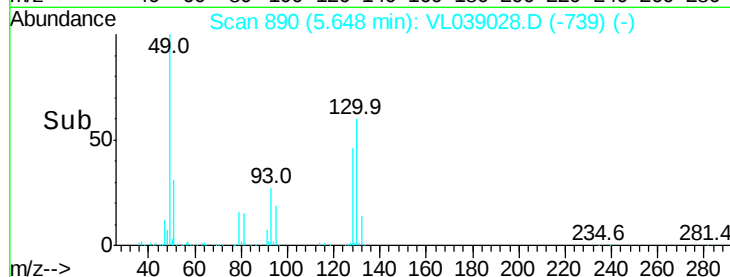
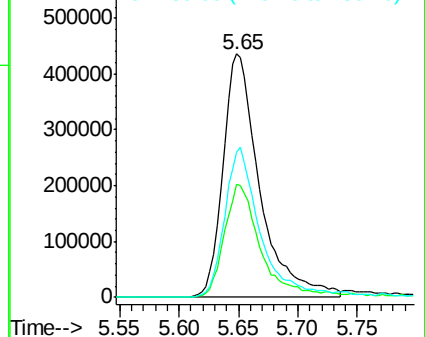
130 62.4 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.64 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL039028.D

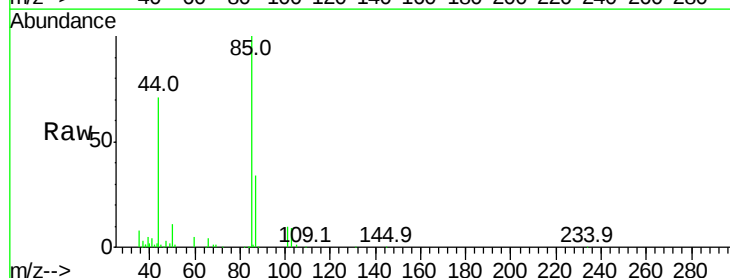
Acq: 11 May 2022 20:26

Tgt Ion: 85 Resp: 93918

Ion Ratio Lower Upper

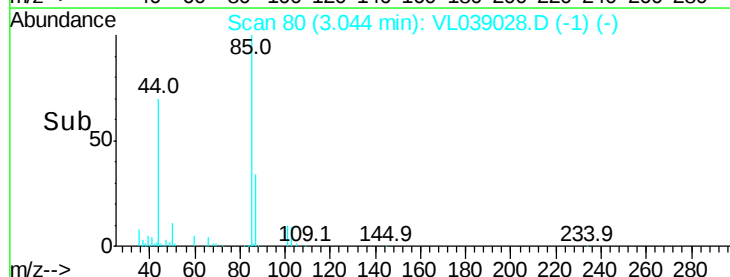
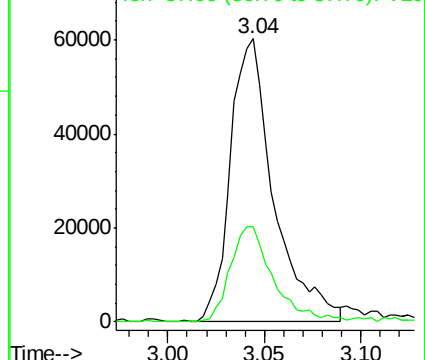
85 100

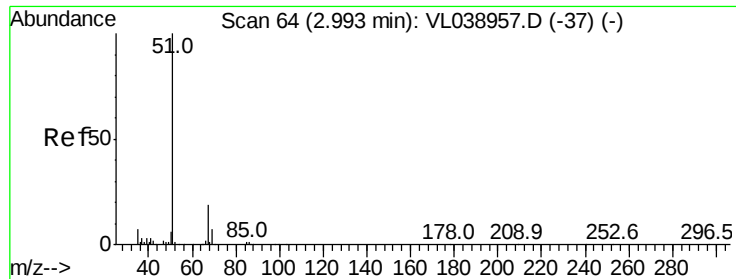
87 33.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.40 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

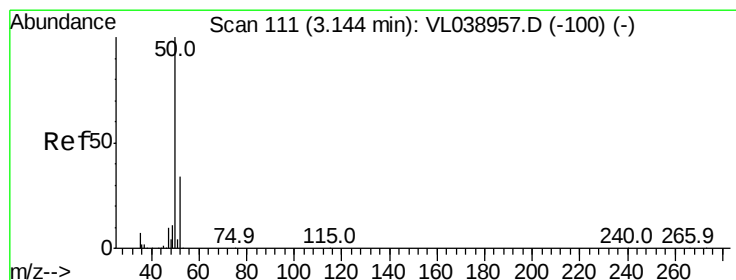
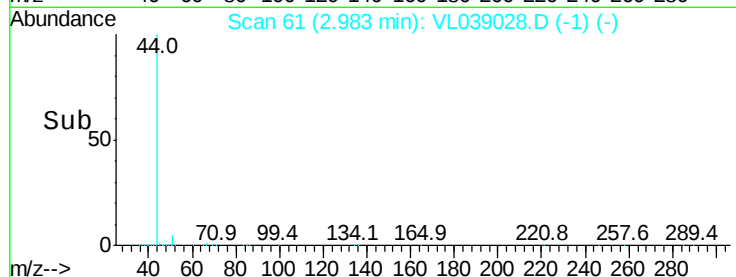
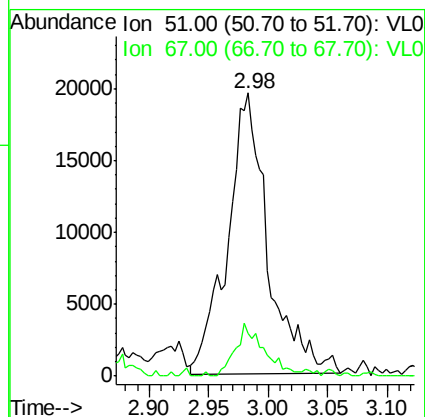
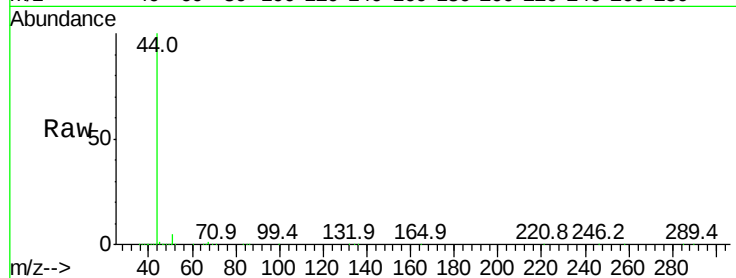
Acq: 11 May 2022 20:26

Tgt Ion: 51 Resp: 46215

Ion Ratio Lower Upper

51 100

67 13.1 15.8 23.8#



#4

Chloromethane

Concen: 0.58 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL039028.D

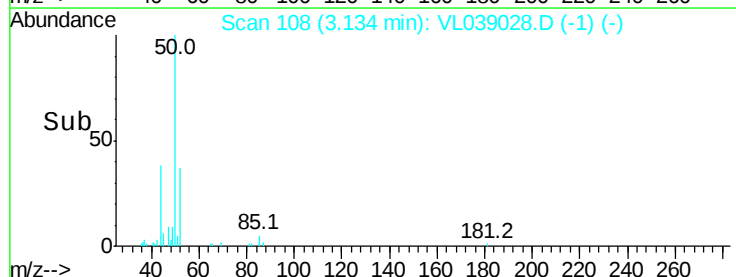
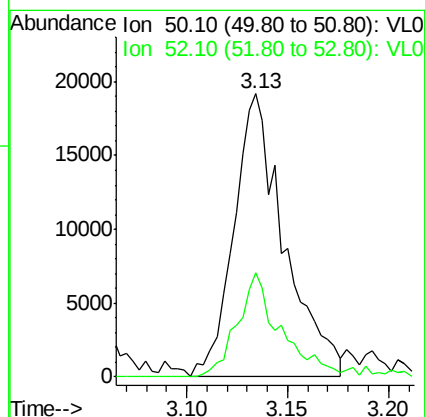
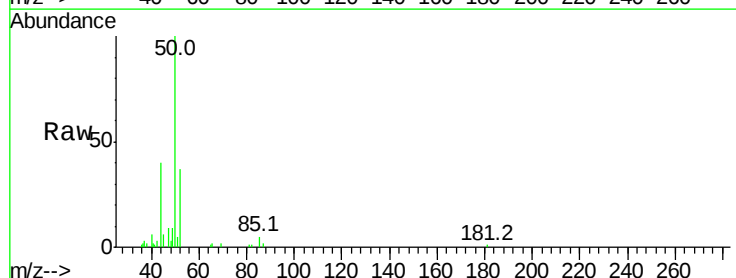
Acq: 11 May 2022 20:26

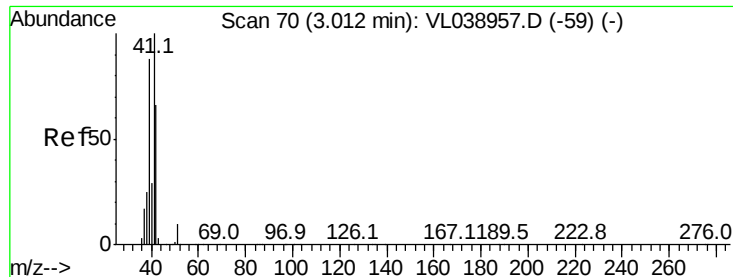
Tgt Ion: 50 Resp: 33525

Ion Ratio Lower Upper

50 100

52 37.4 27.3 40.9





#9

Propene

Concen: 0.25 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

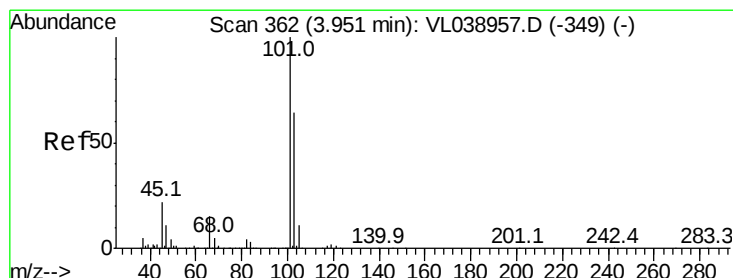
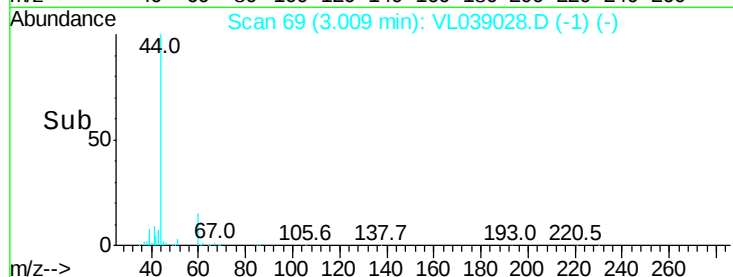
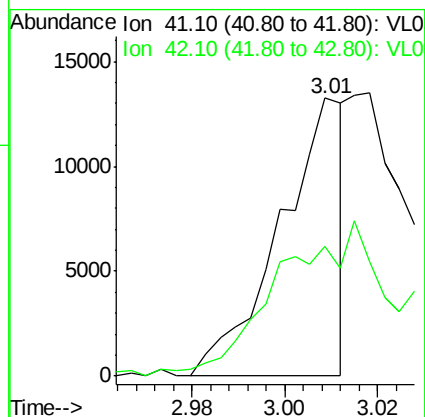
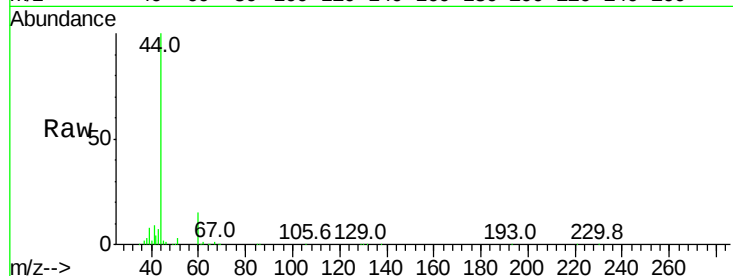
Acq: 11 May 2022 20:26

Tgt Ion: 41 Resp: 12702

Ion Ratio Lower Upper

41 100

42 0.0 58.3 87.5#



#11

Trichlorofluoromethane

Concen: 0.22 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL039028.D

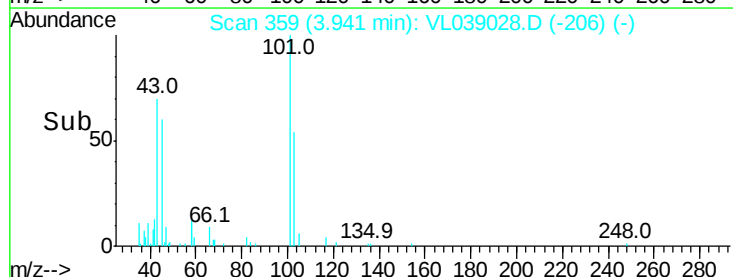
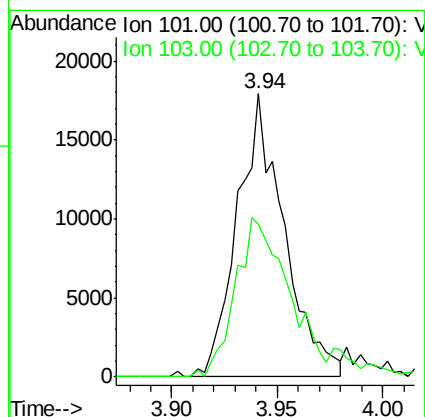
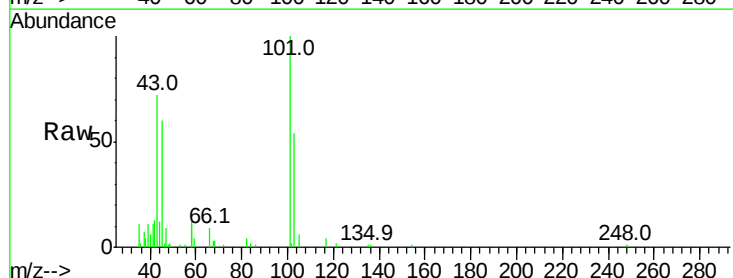
Acq: 11 May 2022 20:26

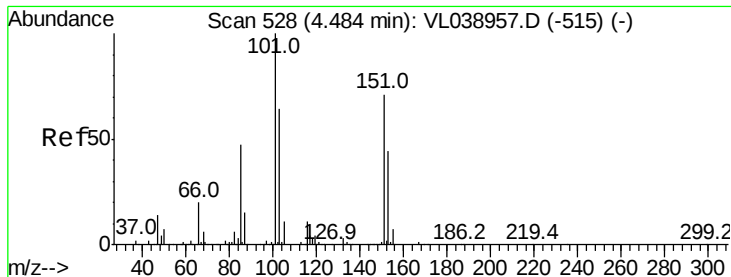
Tgt Ion: 101 Resp: 27494

Ion Ratio Lower Upper

101 100

103 54.2 51.5 77.3





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.03 ppbv

RT: 4.47 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

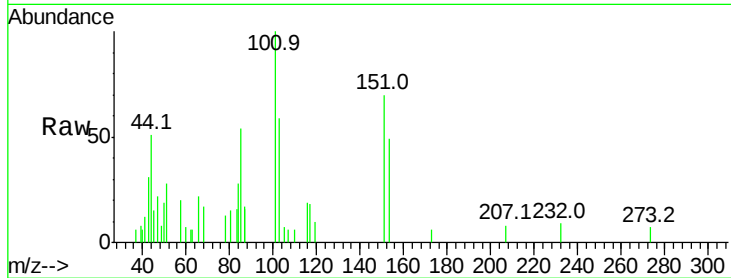
Acq: 11 May 2022 20:26

Tgt Ion: 101 Resp: 2709

Ion Ratio Lower Upper

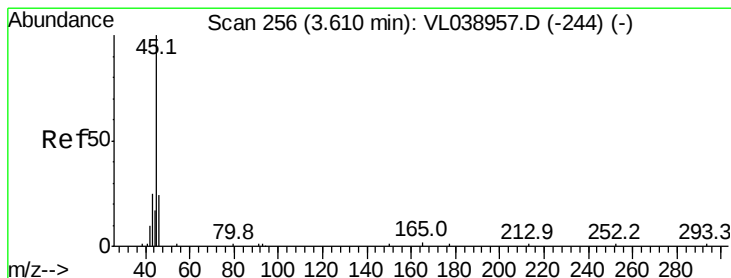
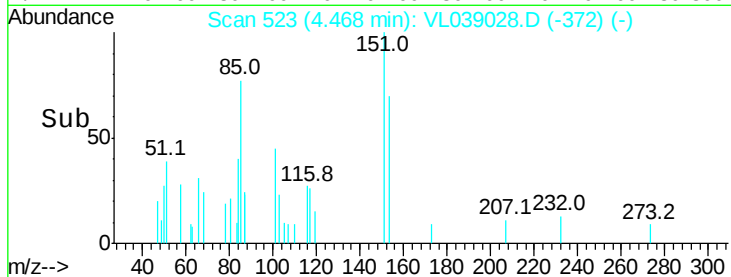
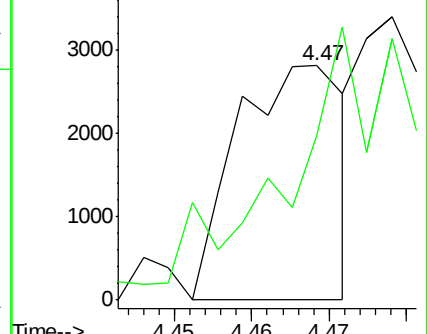
101 100

151 172.5 55.4 83.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 9.44 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL039028.D

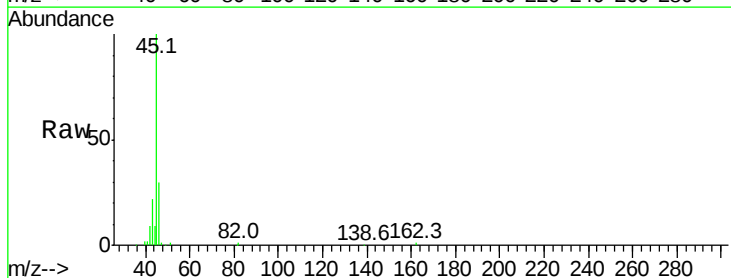
Acq: 11 May 2022 20:26

Tgt Ion: 45 Resp: 33728

Ion Ratio Lower Upper

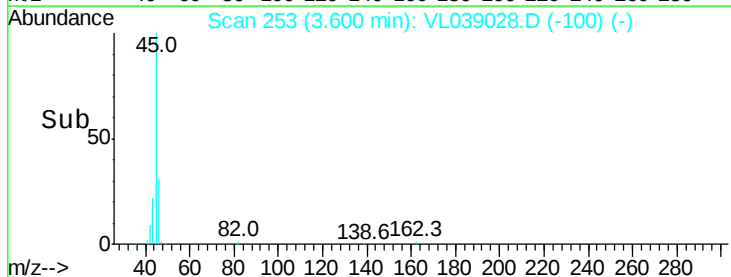
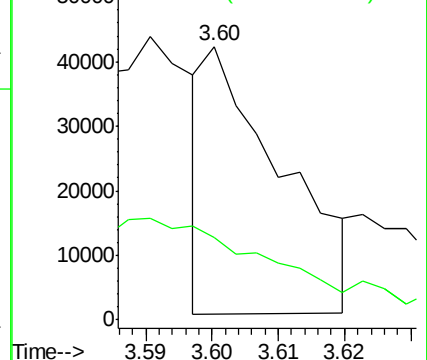
45 100

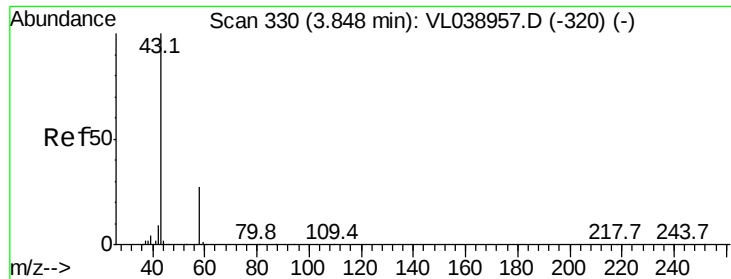
46 0.0 18.0 72.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 9.82 ppbv

RT: 3.84 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: OA1

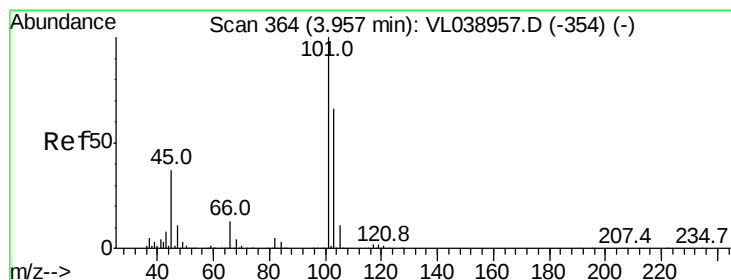
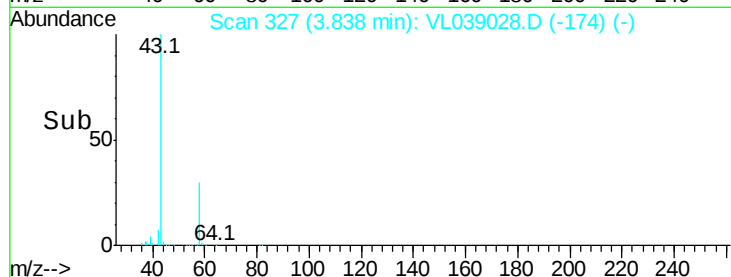
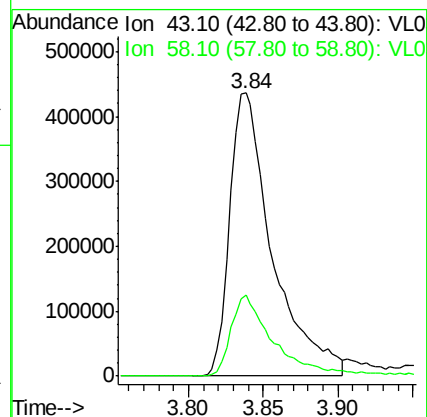
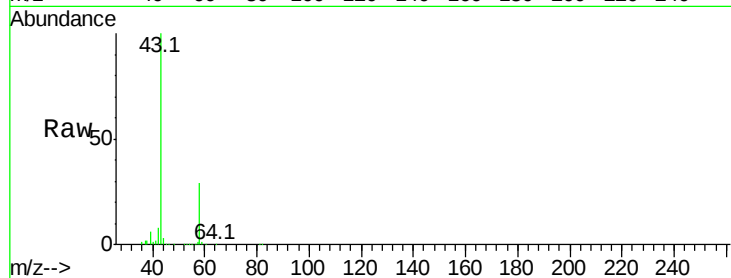
Acq: 11 May 2022 20:26

Tgt Ion: 43 Resp: 863335

Ion Ratio Lower Upper

43 100

58 30.1 21.3 31.9



#19

Isopropyl Alcohol

Concen: 1.59 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL039028.D

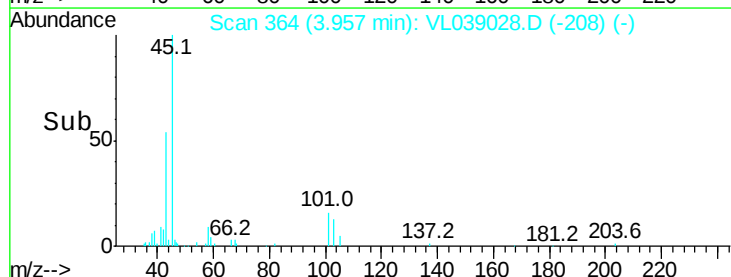
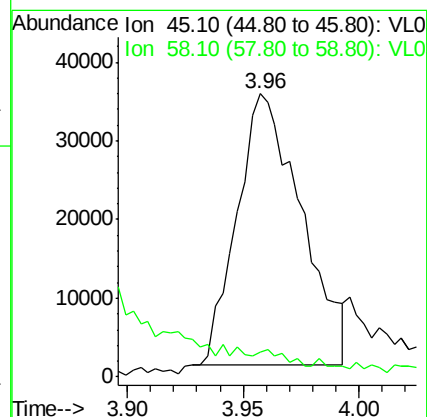
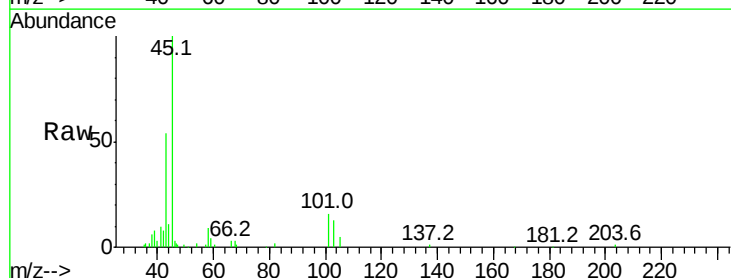
Acq: 11 May 2022 20:26

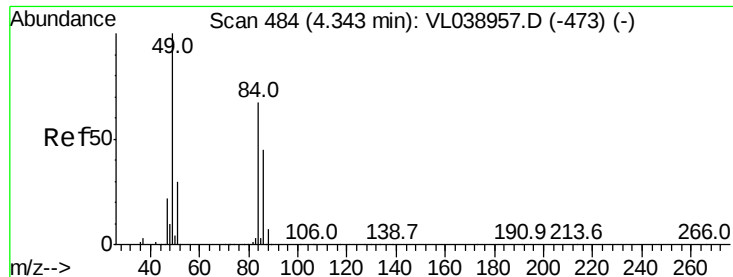
Tgt Ion: 45 Resp: 66506

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#





#20

Methylene Chloride

Concen: 2.09 ppbv

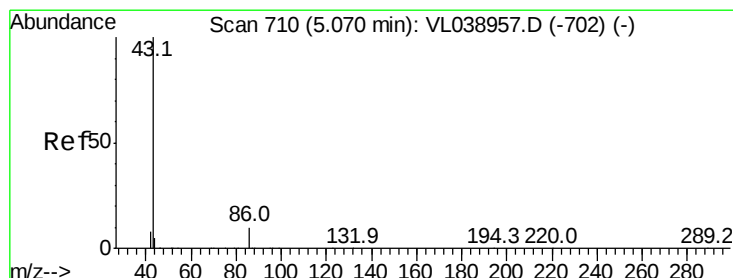
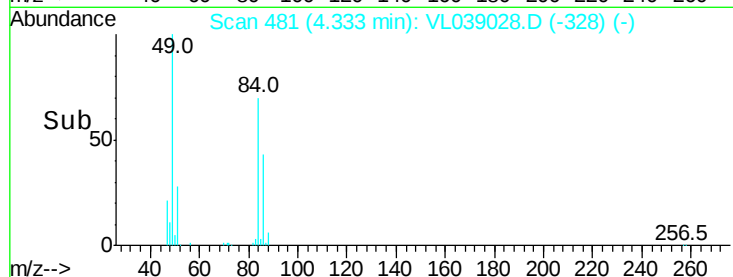
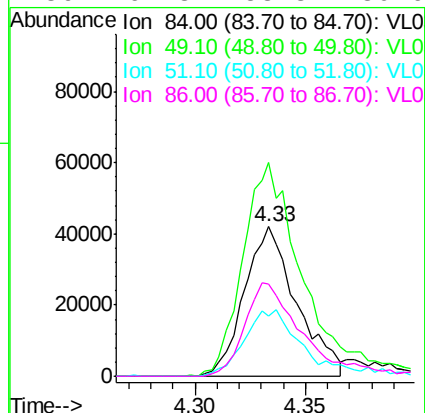
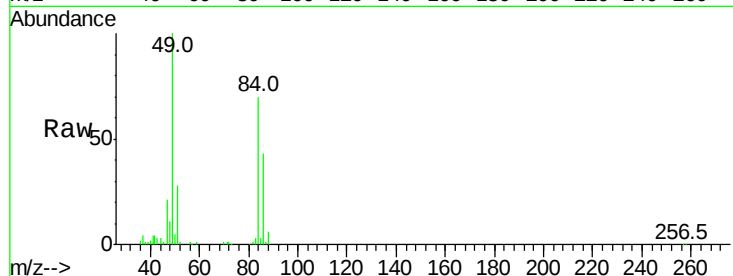
RT: 4.33

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 11 May 2022 20:26

Tgt Ion:	84	Resp:	69142
Ion	Ratio	Lower	Upper
84	100		
49	142.4	119.9	179.9
51	40.3	35.7	53.5
86	61.3	53.8	80.6



#23

Vinyl Acetate

Concen: 0.09 ppbv

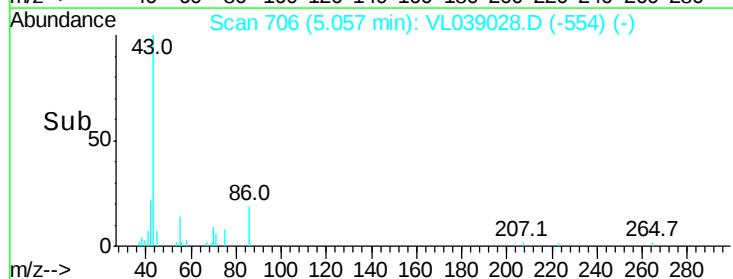
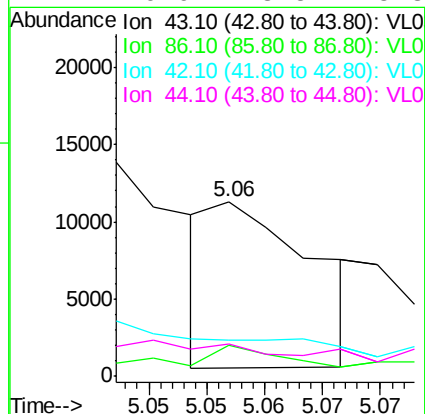
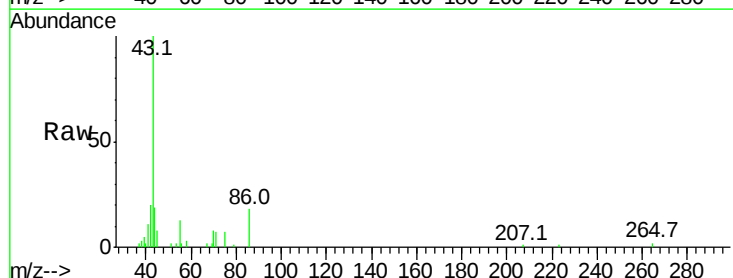
RT: 5.06 min Scan# 706

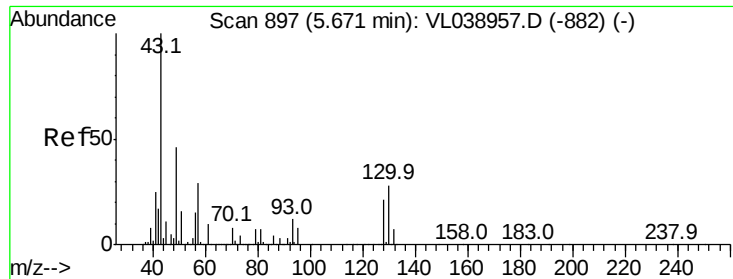
Delta R.T. -0.01 min

Lab File: VL039028.D

Acq: 11 May 2022 20:26

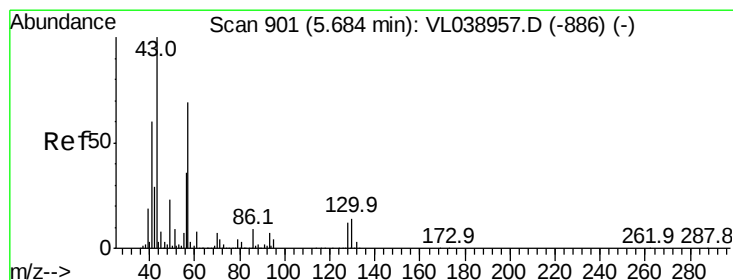
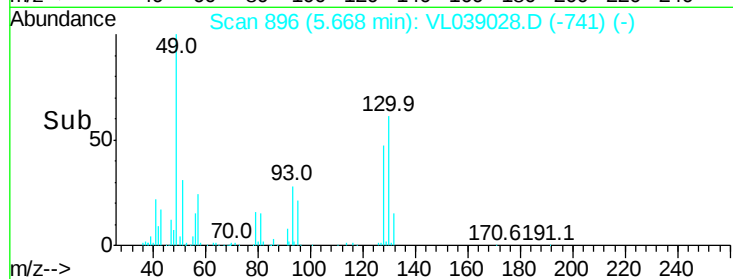
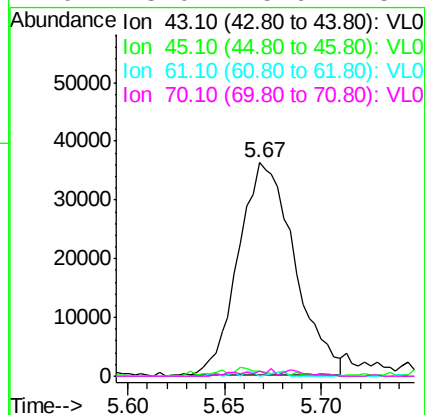
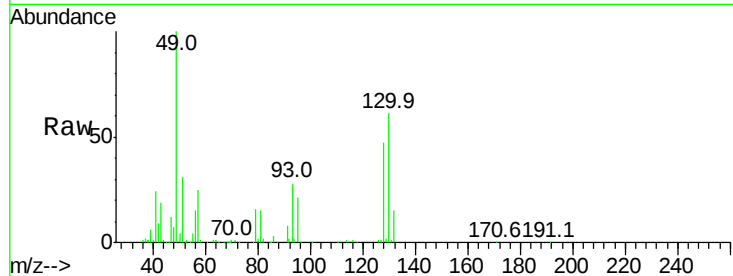
Tgt Ion:	43	Resp:	6534
Ion	Ratio	Lower	Upper
43	100		
86	37.8	6.6	9.8#
42	8.9	8.1	12.1
44	9.9	3.5	5.3#





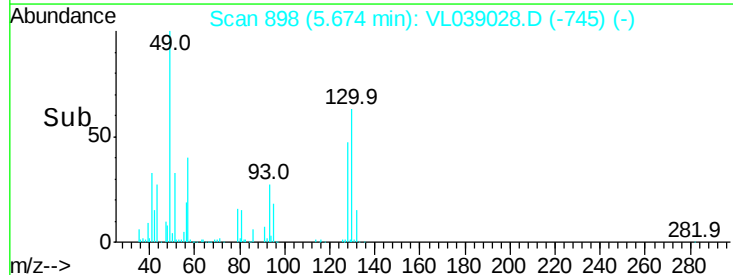
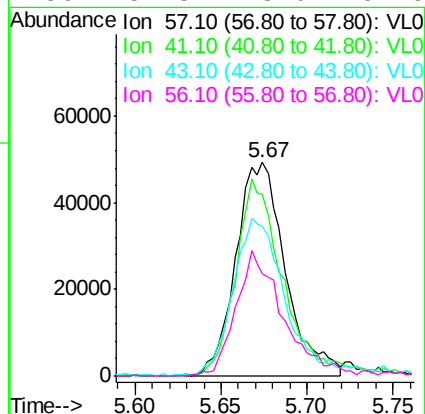
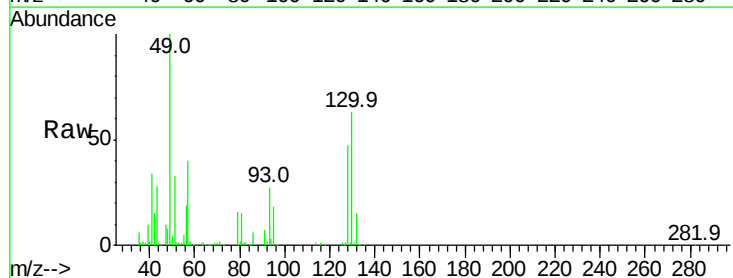
#25
Ethyl Acetate
Concen: 0.35 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 11 May 2022 20:20

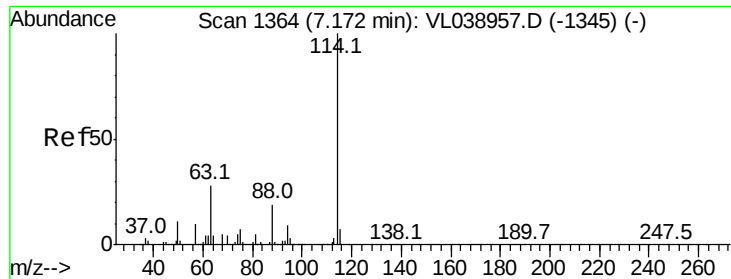
Tgt Ion:	43	Resp:	73134
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.1	12.1#
61	0.9	7.8	11.6#
70	3.0	5.6	8.4#



#26
Hexane
Concen: 1.05 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL039028.D
Acq: 11 May 2022 20:26

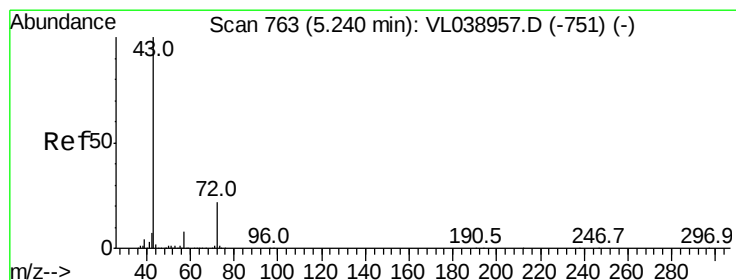
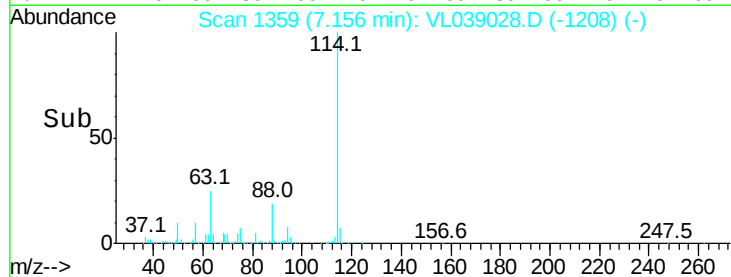
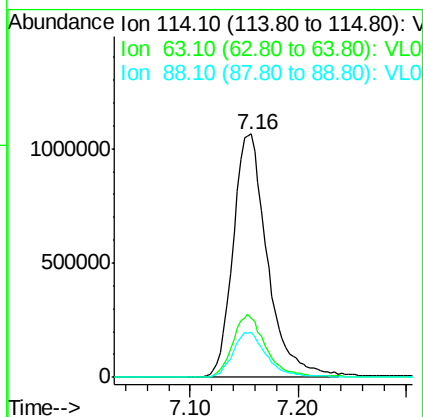
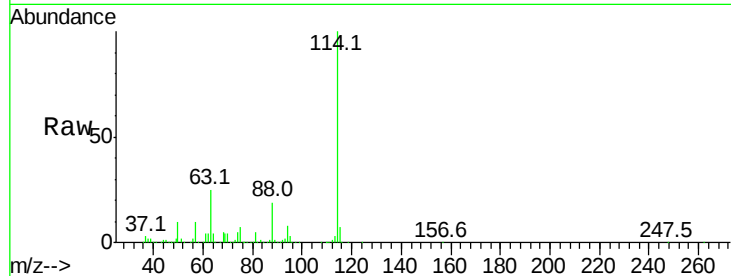
Tgt Ion:	57	Resp:	98591
Ion	Ratio	Lower	Upper
57	100		
41	90.8	75.2	112.8
43	79.9	190.8	286.2#
56	57.5	43.0	64.6





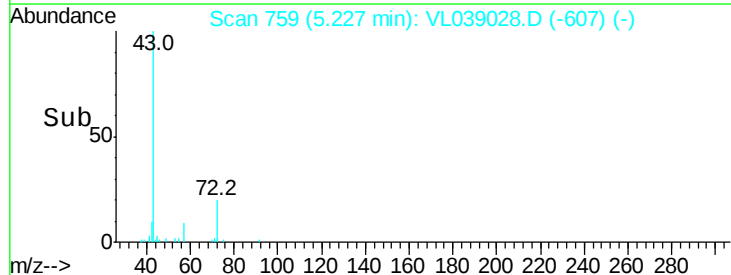
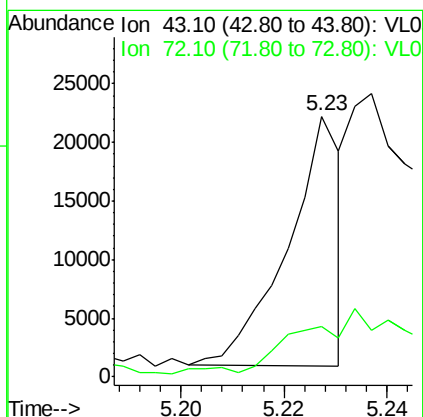
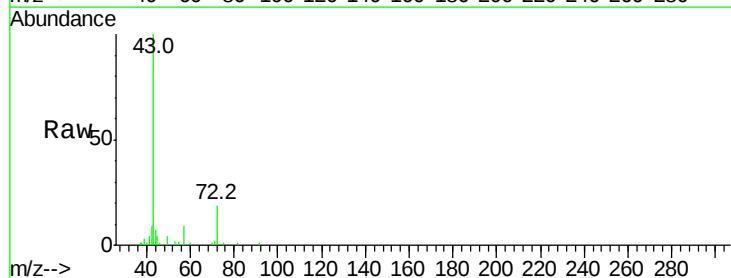
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.16
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 11 May 2022 20:26

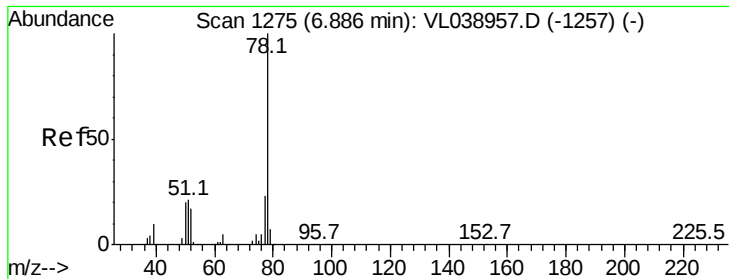
Tgt Ion: 114 Resp: 2361507
 Ion Ratio Lower Upper
 114 100
 63 25.6 22.6 33.8
 88 18.8 15.4 23.0



#34
 2-Butanone
 Concen: 0.13 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VL039028.D
 Acq: 11 May 2022 20:26

Tgt Ion: 43 Resp: 15360
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#





#36

Benzene

Concen: 0.09 ppbv

RT: 6.87 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 11 May 2022 20:26

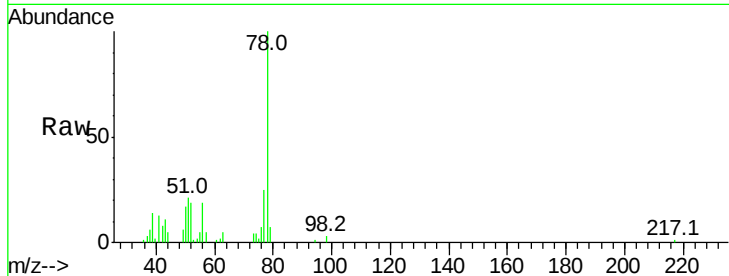
Tgt Ion: 78 Resp: 18331

Ion Ratio Lower Upper

78 100

77 27.5 18.6 28.0

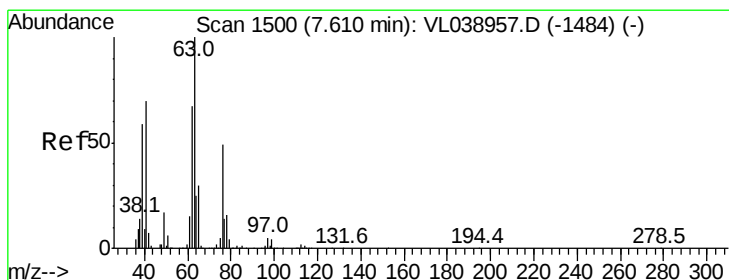
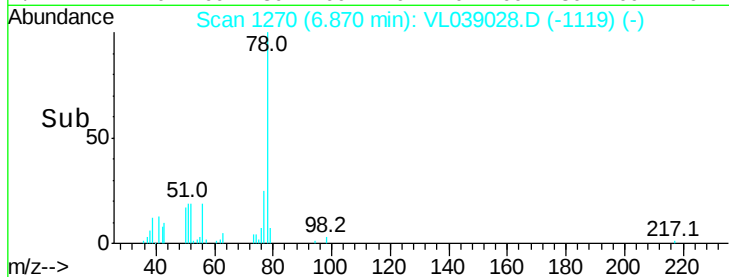
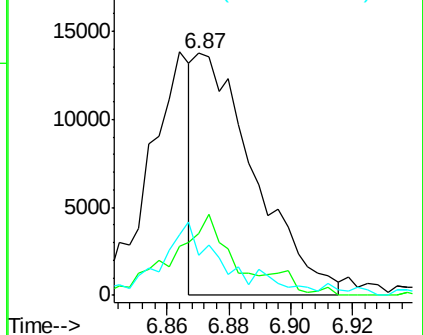
50 15.8 15.6 23.4



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



#39

1,2-Dichloropropane

Concen: 7.58 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.46 min

Lab File: VL039028.D

Acq: 11 May 2022 20:26

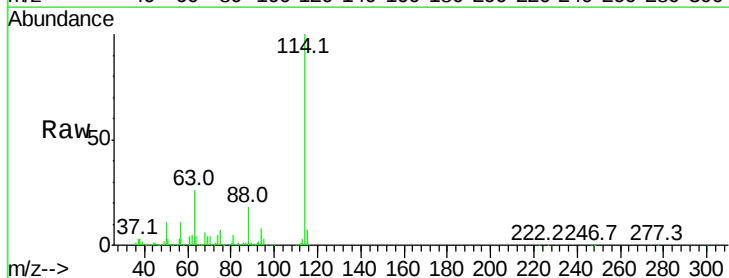
Tgt Ion: 63 Resp: 596325

Ion Ratio Lower Upper

63 100

41 0.0 55.9 83.9#

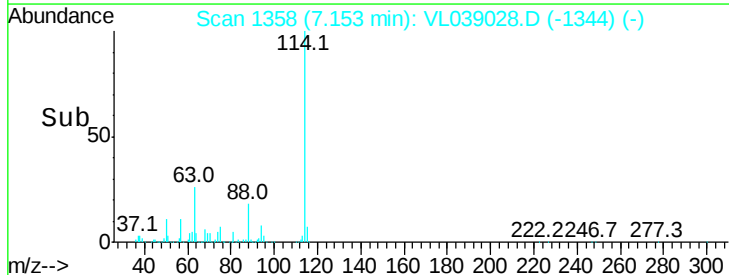
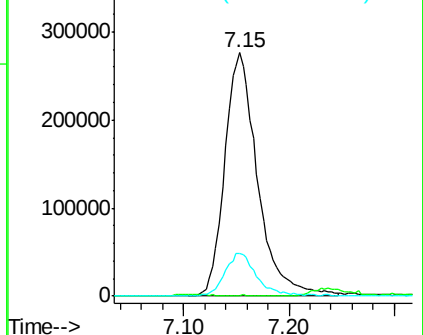
62 17.5 53.8 80.6#

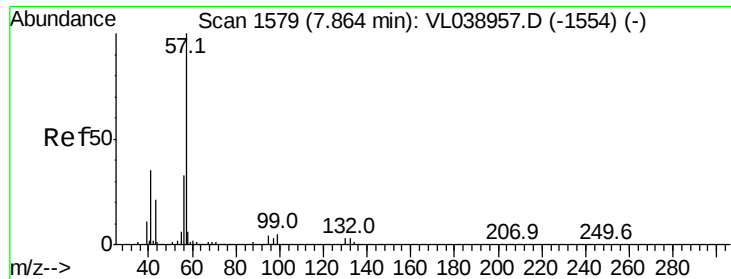


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

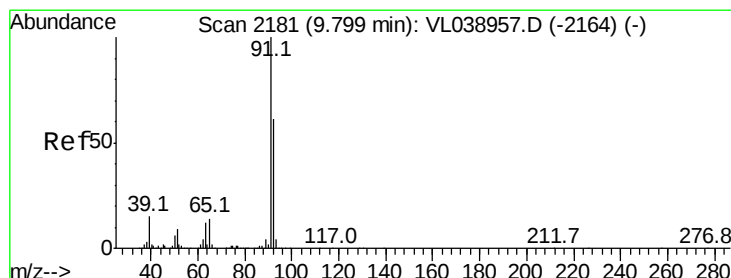
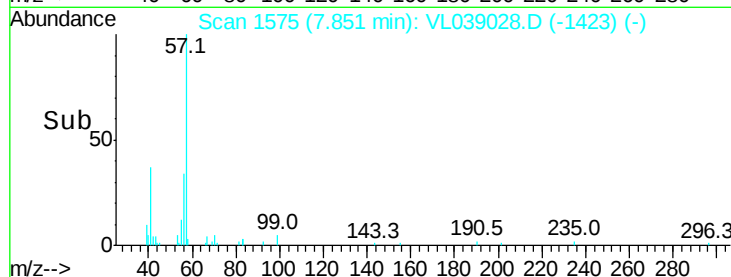
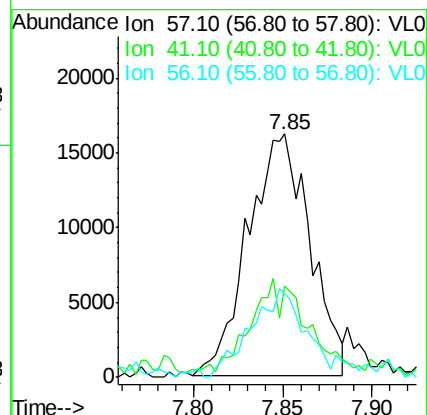
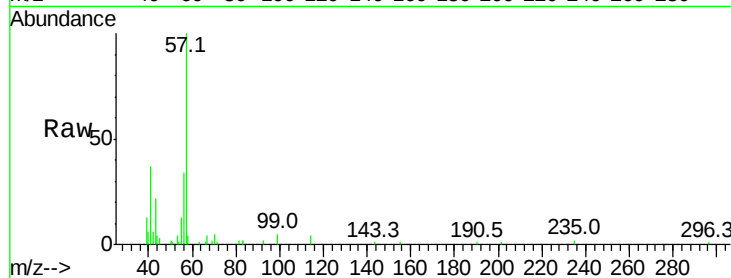
Ion 62.10 (61.80 to 62.80): VL0





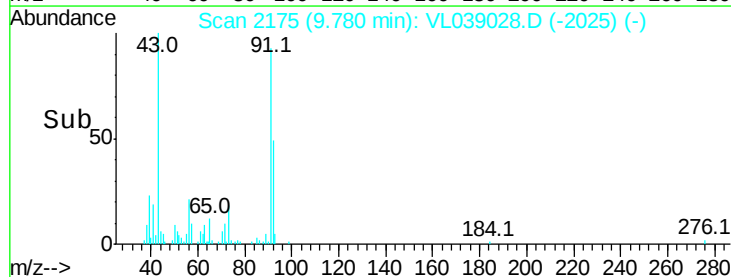
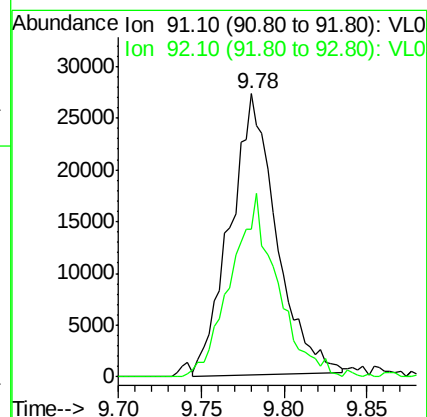
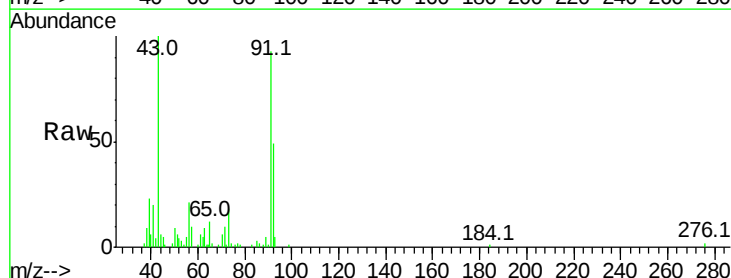
#44
 2,2,4-Trimethylpentane
 Concen: 0.11 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 11 May 2022 20:26

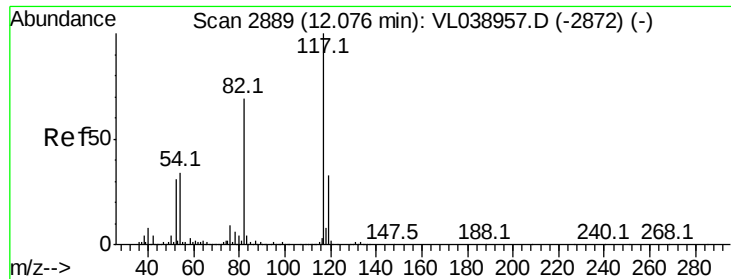
Tgt Ion	Ratio	Lower	Upper
57	100		
41	40.0	26.3	39.5#
56	37.7	24.6	37.0#



#53
 Toluene
 Concen: 0.23 ppbv
 RT: 9.78 min Scan# 2175
 Delta R.T. -0.02 min
 Lab File: VL039028.D
 Acq: 11 May 2022 20:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	65.2	48.2	72.2

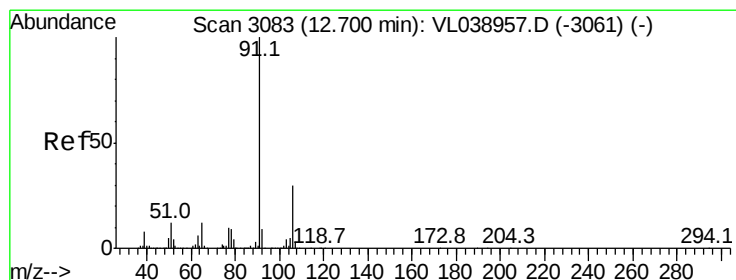
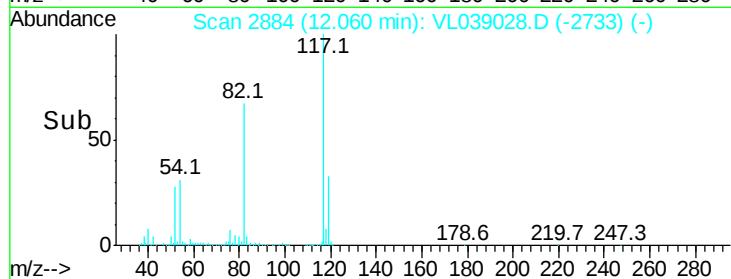
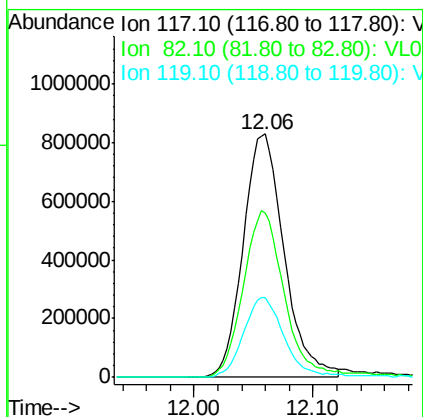
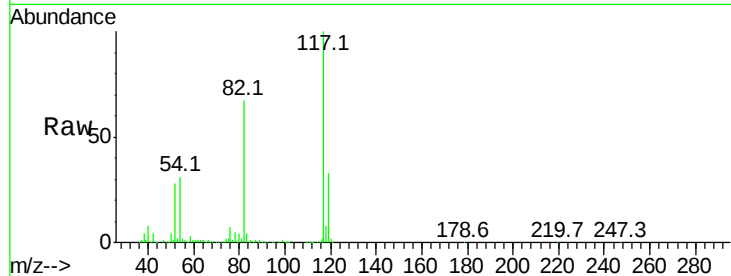




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.06 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 11 May 2022 20:20

Tgt Ion: 117 Resp: 1978981

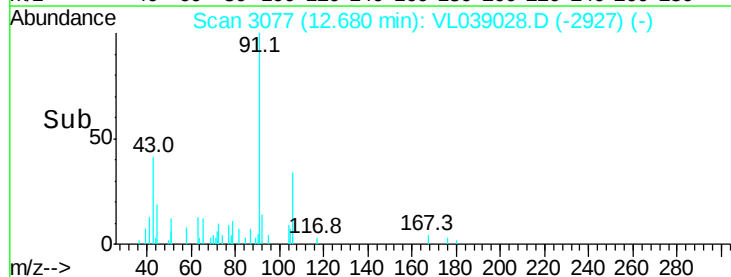
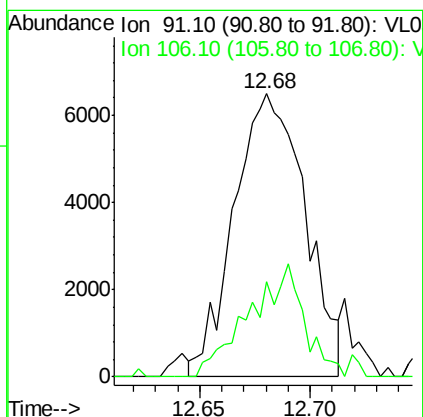
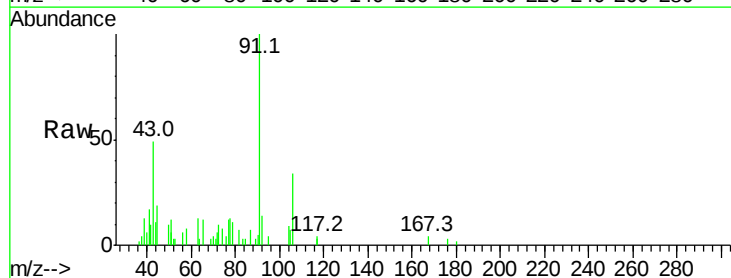
Ion	Ratio	Lower	Upper
117	100		
82	70.4	57.0	85.6
119	33.8	27.2	40.8

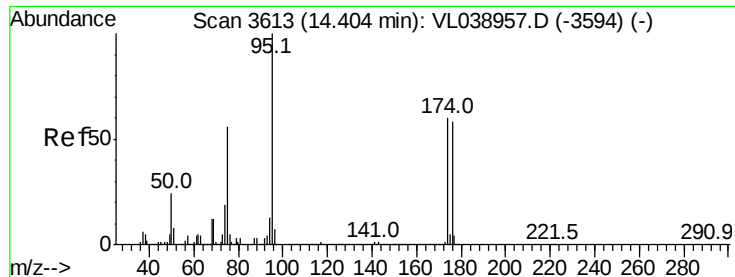


#58
Ethyl Benzene
Concen: 0.05 ppbv
RT: 12.68 min Scan# 3077
Delta R.T. -0.02 min
Lab File: VL039028.D
Acq: 11 May 2022 20:26

Tgt Ion: 91 Resp: 14488

Ion	Ratio	Lower	Upper
91	100		
106	35.8	24.2	36.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.82 ppbv

RT: 14.39

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 11 May 2022 20:20

Tgt Ion: 95 Resp: 1538943

Ion Ratio Lower Upper

95 100

174 65.1 50.8 76.2

175 4.4 3.8 5.6

