

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092321\
 Data File : VL037657.D
 Acq On : 23 Sep 2021 11:40
 Operator : SY/AP
 Sample : CAN 10024
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 24 06:35:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1529538	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4558757	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3951049	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2749147	9.63	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

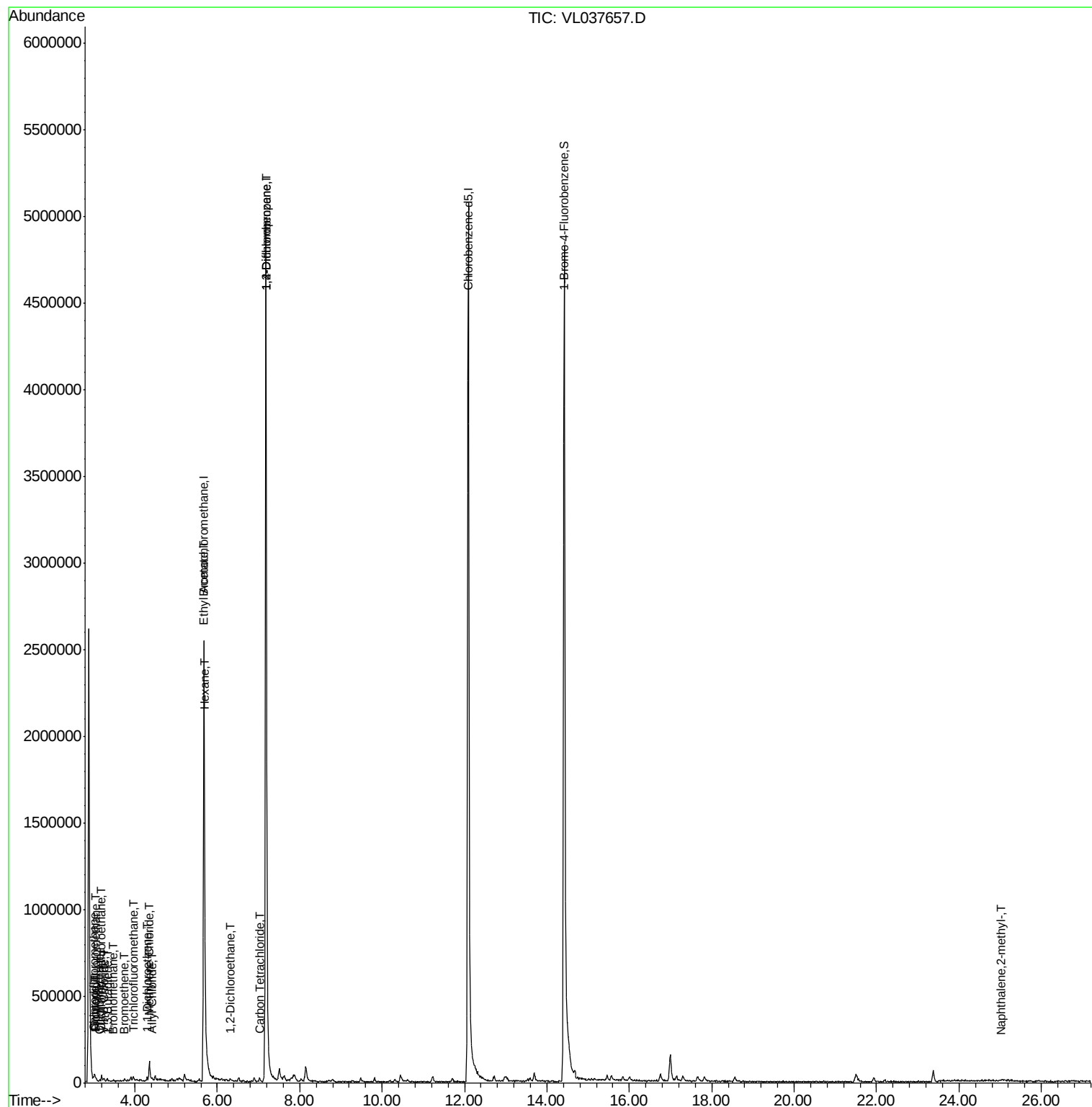
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	9299	0.034	ppbv 97
3) Chlorodifluoromethane	3.00	51	16529	0.057	ppbv 100
4) Chloromethane	3.14	50	4293	0.040	ppbv 97
5) Vinyl Chloride	3.26	62	4525	0.045	ppbv # 57
6) Bromomethane	3.48	94	2866	0.049	ppbv # 62
8) Dichlorotetrafluoroethane	3.19	85	10746	0.045	ppbv # 74
9) Propene	3.01	41	3996	0.039	ppbv # 1
11) Trichlorofluoromethane	3.96	101	11432	0.051	ppbv 98
14) Bromoethene	3.74	108	3124	0.042	ppbv # 46
16) 1,3-Butadiene	3.33	39	3983	0.040	ppbv # 56
18) 1,1-Dichloroethene	4.29	96	3428	0.045	ppbv # 65
20) Methylene Chloride	4.35	84	40641	0.536	ppbv 98
21) Allyl Chloride	4.42	41	3821	0.032	ppbv # 36
25) Ethyl Acetate	5.69	43	13040	0.034	ppbv # 75
26) Hexane	5.69	57	35461	0.194	ppbv # 54
35) Carbon Tetrachloride	7.02	117	9863	0.038	ppbv # 74
37) 1,2-Dichloroethane	6.31	62	5698	0.030	ppbv # 70
39) 1,2-Dichloropropane	7.18	63	1058173	7.268	ppbv # 27
80) Naphthalene,2-methyl-	25.03	142	5790	0.084	ppbv # 39

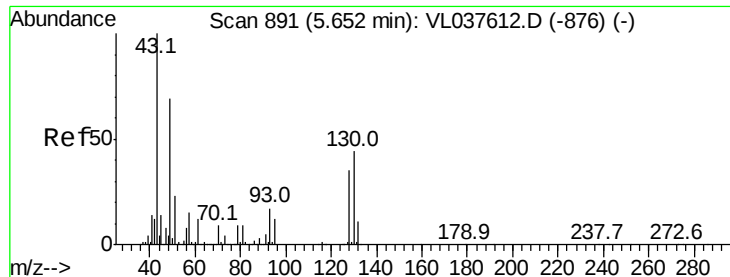
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.02 min

Lab File: VL037657.D

Acq: 23 Sep 2021 11:40

Instrument :

MSVOA_L

ClientSampleId :

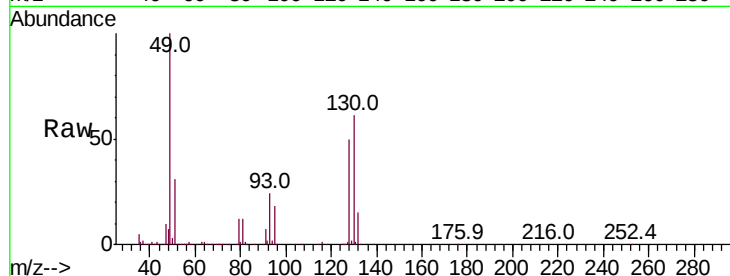
Tot Ion: 49 Resp: 1529538

Ion Ratio Lower Upper

49 100

128 54.5 27.9 83.6

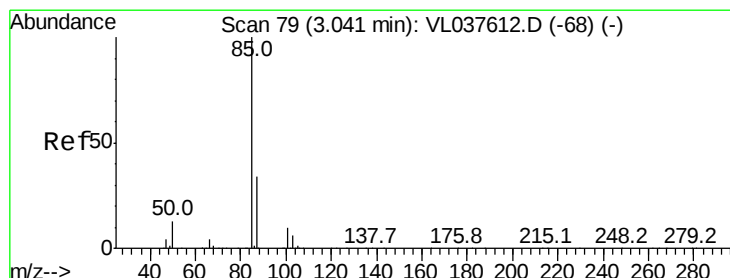
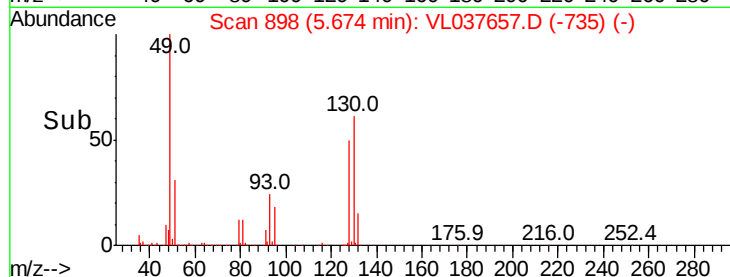
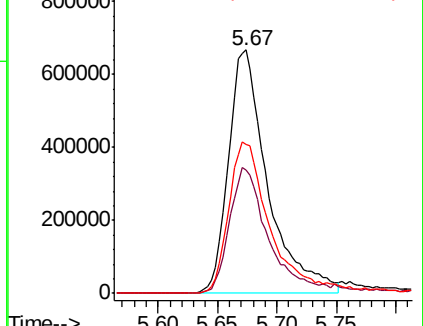
130 67.9 33.9 101.7



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: 0.034 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL037657.D

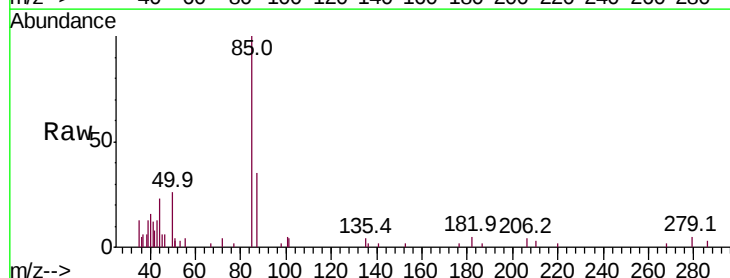
Acq: 23 Sep 2021 11:40

Tgt Ion: 85 Resp: 9299

Ion Ratio Lower Upper

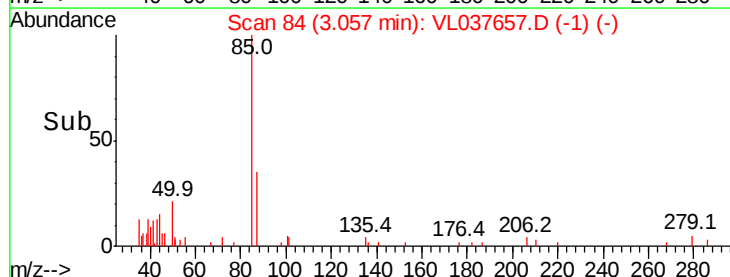
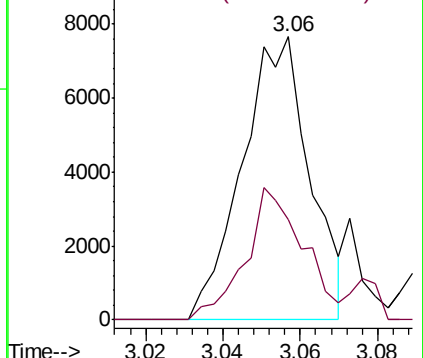
85 100

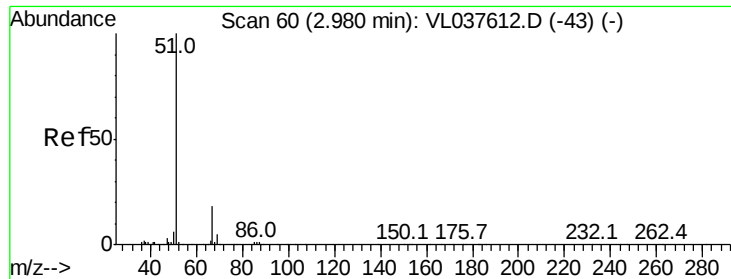
87 35.3 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.057 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL037657.D

Acq: 23 Sep 2021 11:40

Instrument :

MSVOA_L

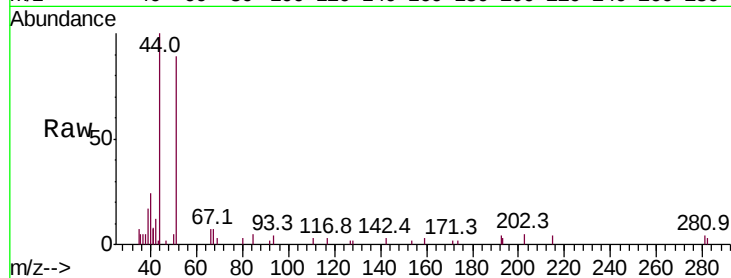
ClientSampleId :

Tot Ion: 51 Resp: 16529

Ion Ratio Lower Upper

51 100

67 17.3 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.00

10000

8000

6000

4000

2000

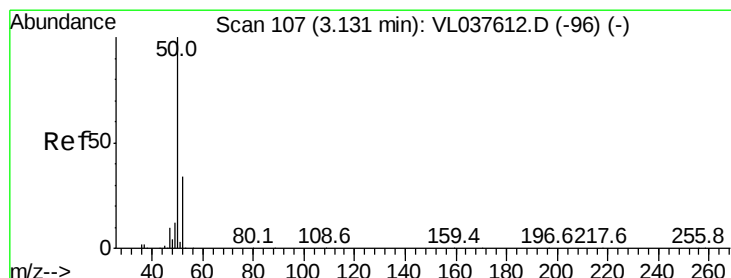
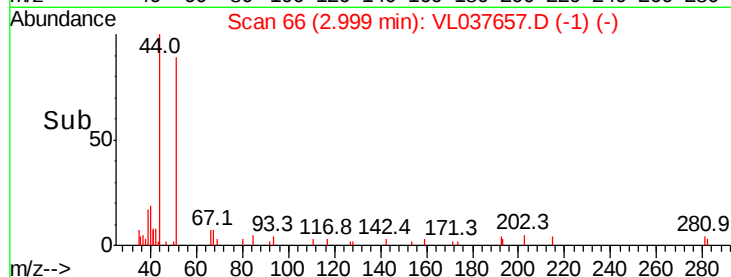
0

Time-->

2.90

3.00

3.10



#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL037657.D

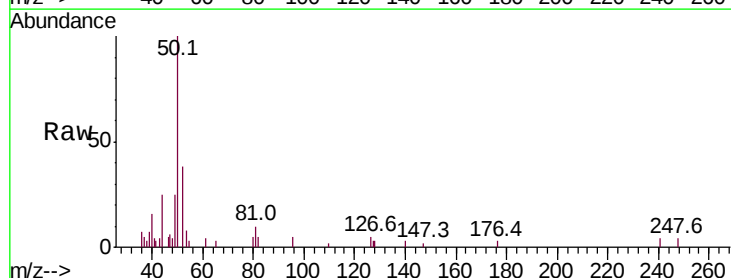
Acq: 23 Sep 2021 11:40

Tgt Ion: 50 Resp: 4293

Ion Ratio Lower Upper

50 100

52 35.7 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.14

8000

6000

4000

2000

0

Time-->

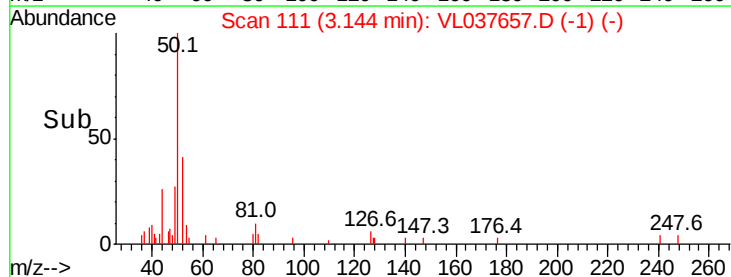
3.13

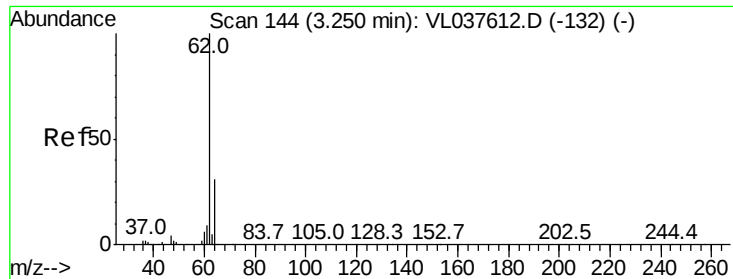
3.14

3.15

3.15

3.15





#5

Vinyl Chloride

Concen: 0.045 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL037657.D

Acq: 23 Sep 2021 11:40

Instrument :

MSVOA_L

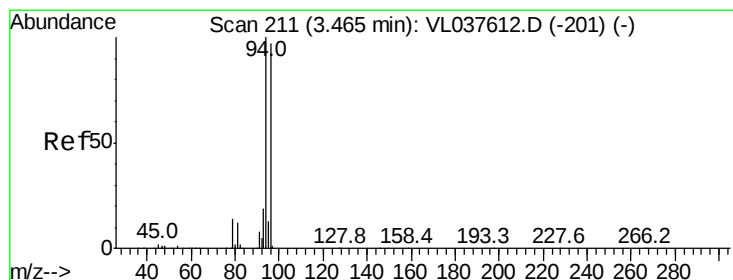
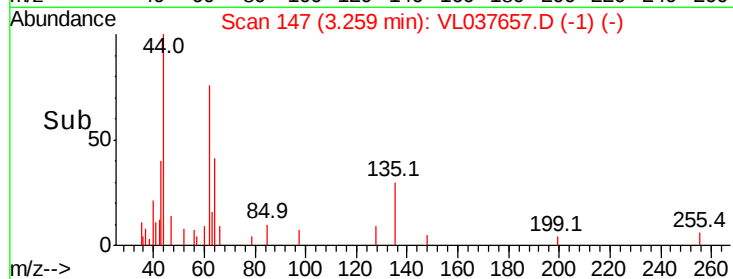
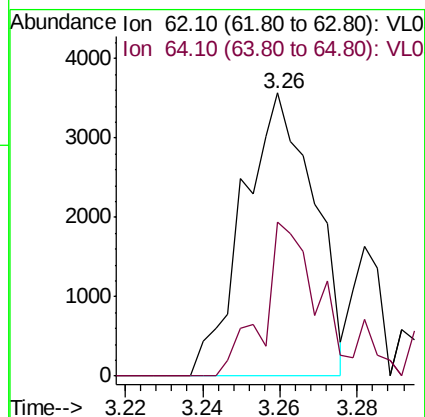
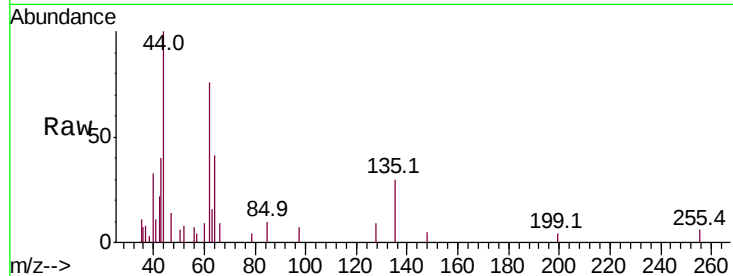
ClientSampled :

Tot Ion: 62 Resp: 4525

Ion Ratio Lower Upper

62 100

64 54.6 24.9 37.3#



#6

Bromomethane

Concen: 0.049 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.02 min

Lab File: VL037657.D

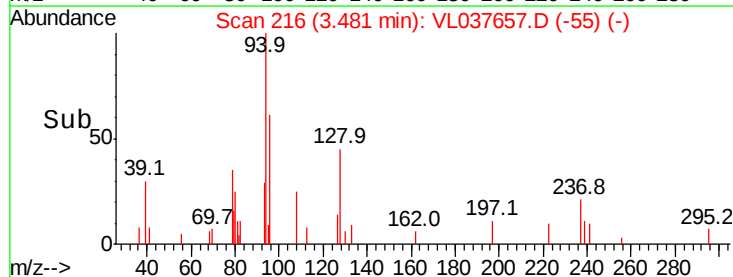
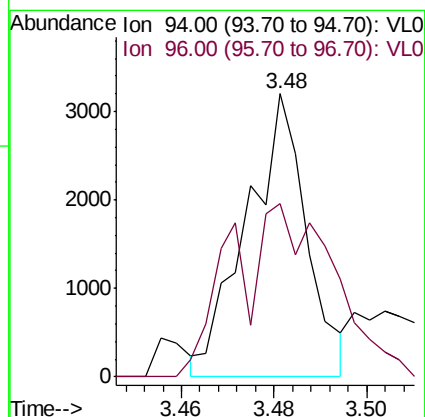
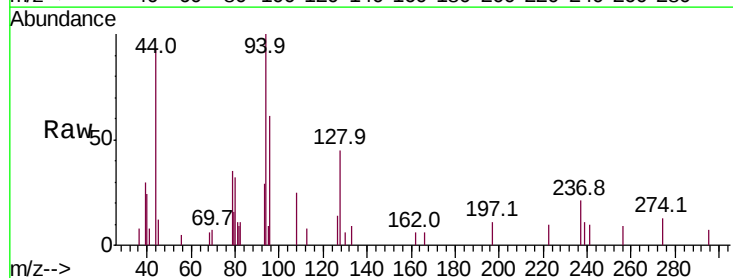
Acq: 23 Sep 2021 11:40

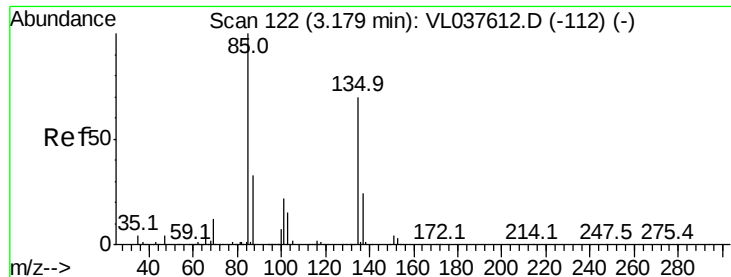
Tgt Ion: 94 Resp: 2866

Ion Ratio Lower Upper

94 100

96 59.4 77.3 115.9#





#8

Dichlorotetrafluoroethane

Concen: 0.045 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.01 min

Lab File: VL037657.D

Acq: 23 Sep 2021 11:40

Instrument :

MSVOA_L

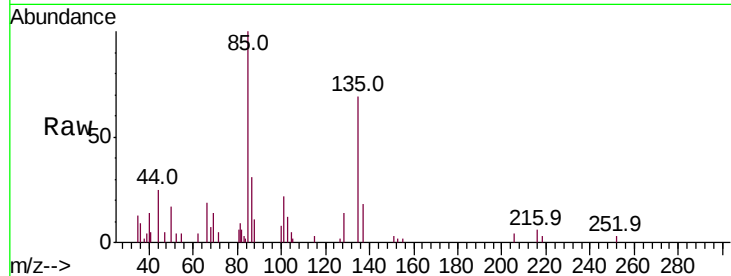
ClientSampleId :

Tot Ion: 85 Resp: 10746

Ion Ratio Lower Upper

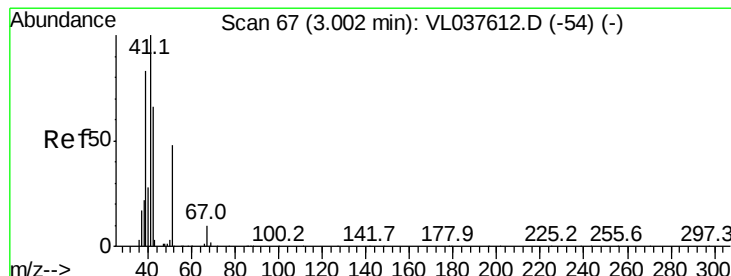
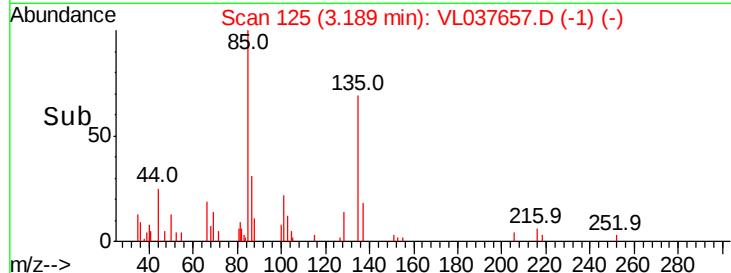
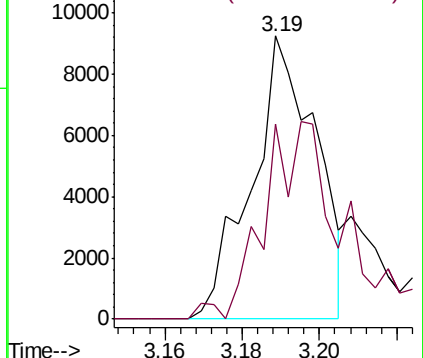
85 100

135 95.7 59.3 88.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.039 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037657.D

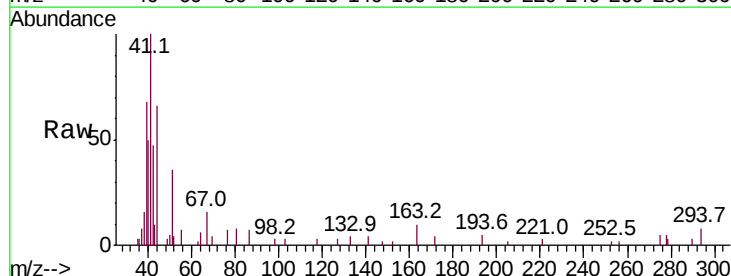
Acq: 23 Sep 2021 11:40

Tgt Ion: 41 Resp: 3996

Ion Ratio Lower Upper

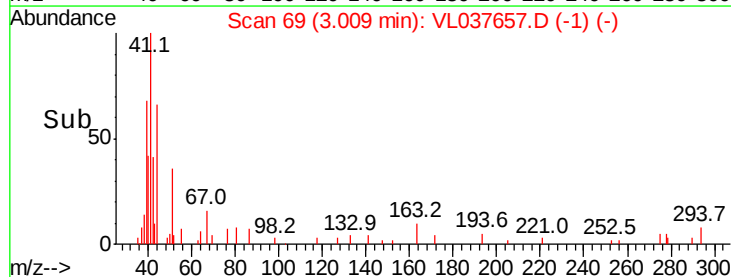
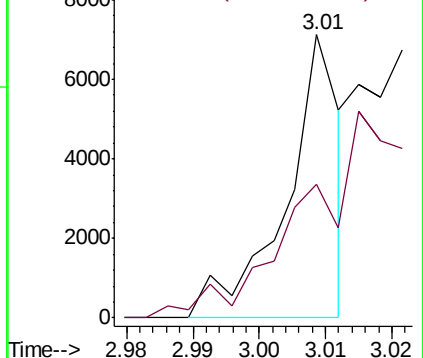
41 100

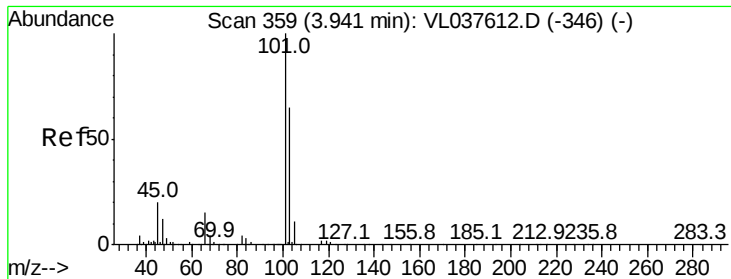
42 261.5 57.2 85.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

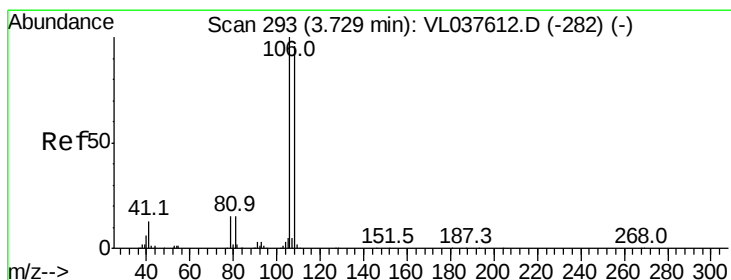
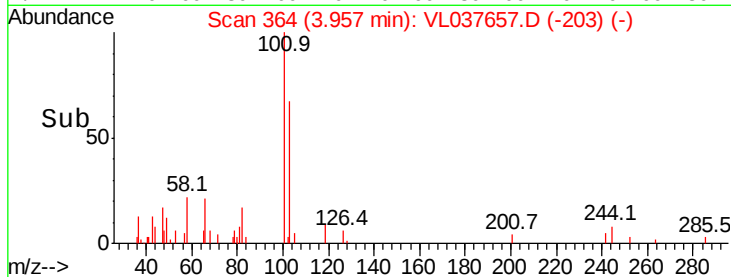
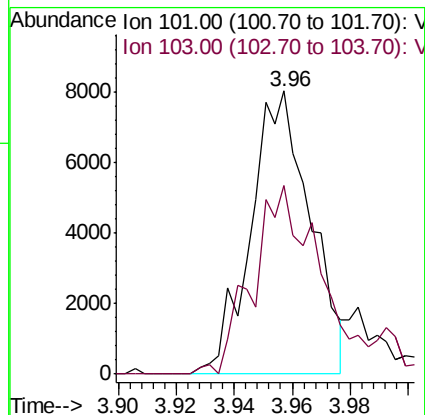
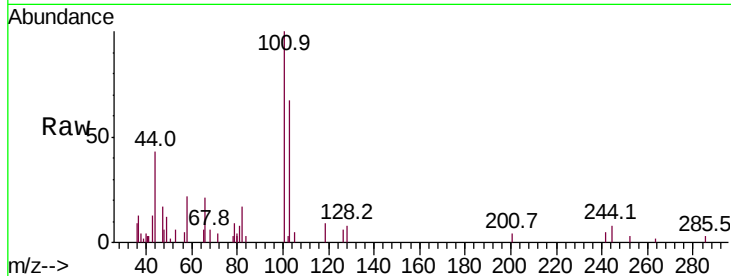




#11
 Trichlorofluoromethane
 Concen: 0.051 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

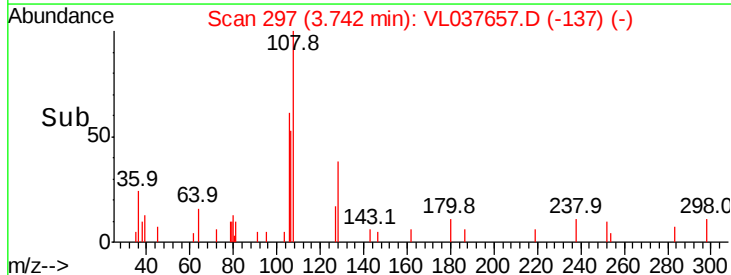
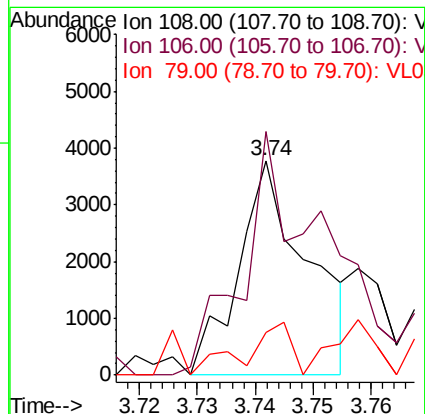
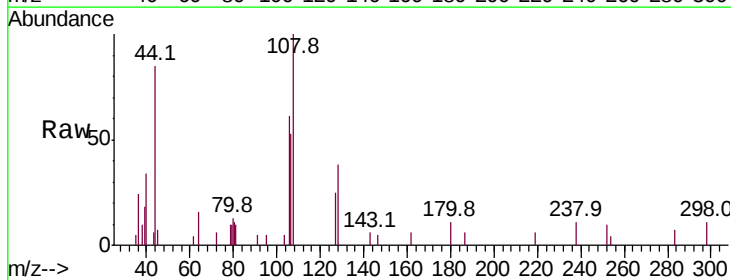
Instrument :
 MSVOA_L
 ClientSampled :

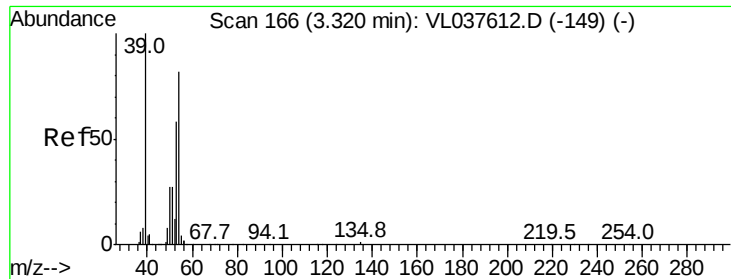
Tot Ion:101 Resp: 11432
 Ion Ratio Lower Upper
 101 100
 103 66.6 51.9 77.9



#14
 Bromoethene
 Concen: 0.042 ppbv
 RT: 3.74 min Scan# 297
 Delta R.T. 0.01 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

Tgt Ion:108 Resp: 3124
 Ion Ratio Lower Upper
 108 100
 106 169.4 88.2 132.4#
 79 0.0 12.8 19.2#

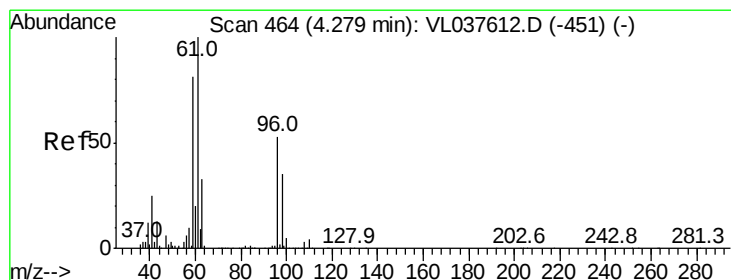
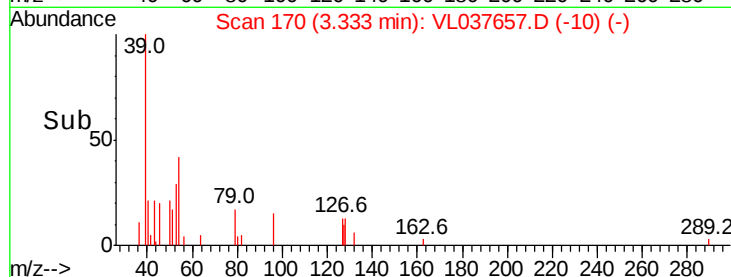
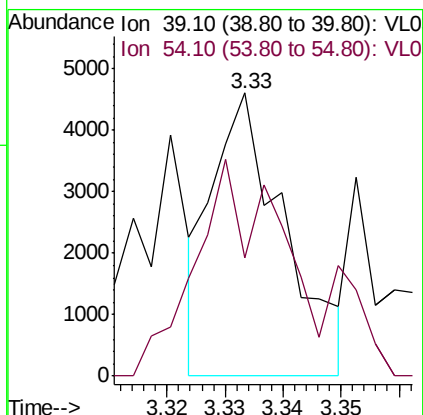
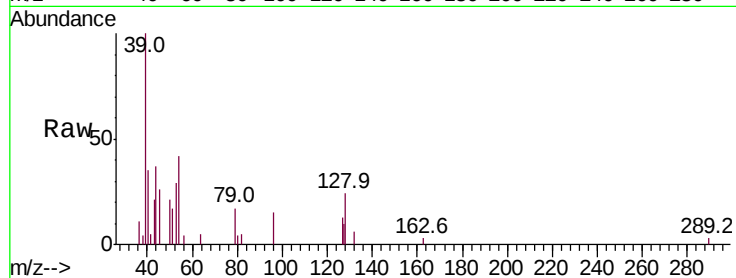




#16
 1,3-Butadiene
 Concen: 0.040 ppbv
 RT: 3.33 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

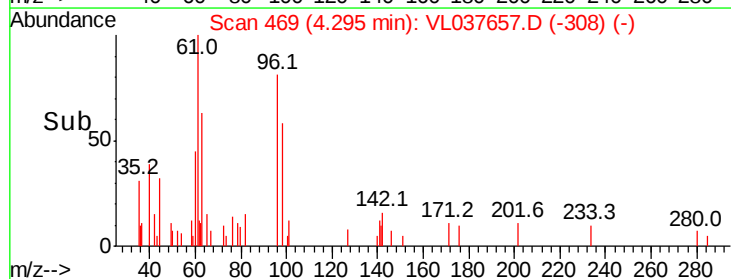
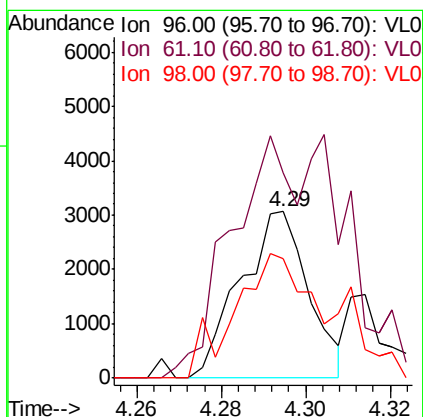
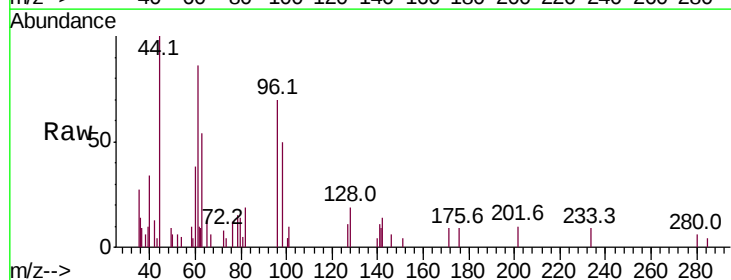
Instrument :
 MSVOA_L
 ClientSampleId :

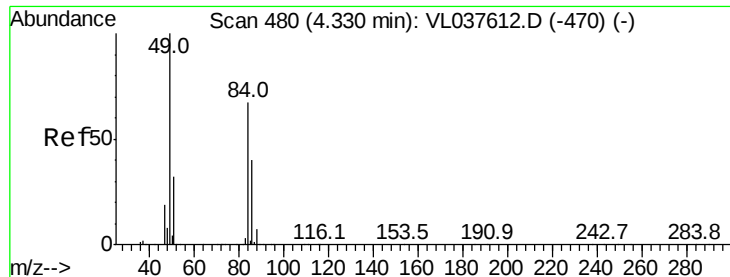
Tot Ion: 39 Resp: 3983
 Ion Ratio Lower Upper
 39 100
 54 116.3 62.6 93.8#



#18
 1,1-Dichloroethene
 Concen: 0.045 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.02 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

Tgt Ion: 96 Resp: 3428
 Ion Ratio Lower Upper
 96 100
 61 123.3 150.4 225.6#
 98 71.7 52.1 78.1

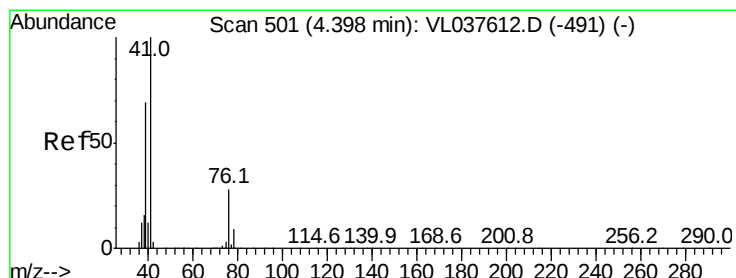
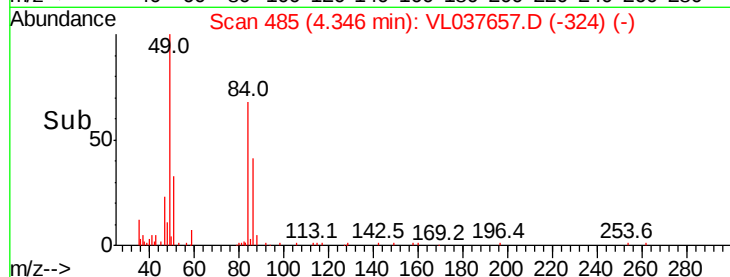
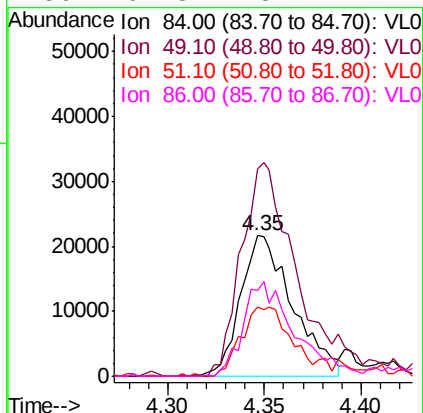
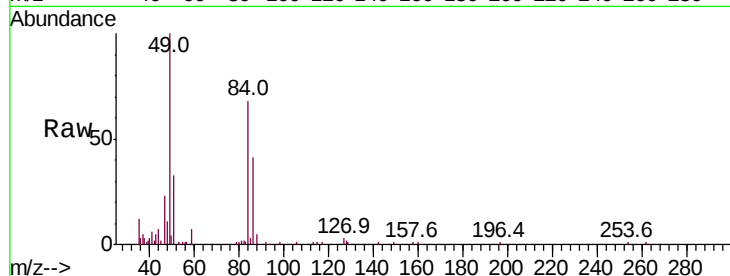




#20
Methylene Chloride
Concen: 0.536 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.02 min
Lab File: VL037657.D
Acq: 23 Sep 2021 11:40

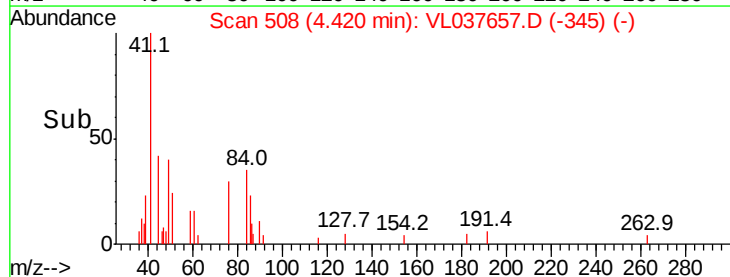
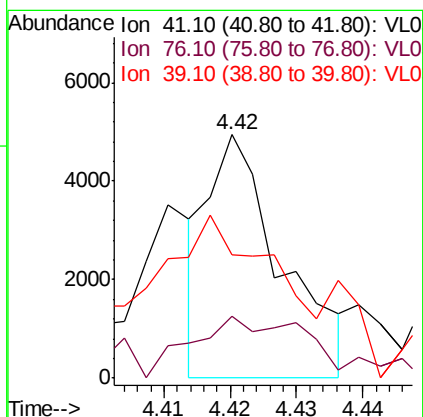
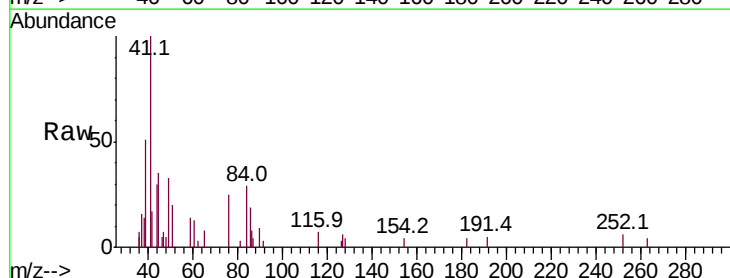
Instrument :
MSVOA_L
ClientSampleId :

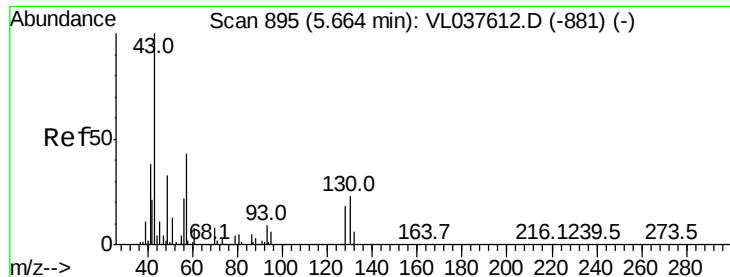
Tot Ion:	84	Resp:	40641
Ion	Ratio	Lower	Upper
84	100		
49	147.8	120.0	180.0
51	49.5	38.0	57.0
86	61.3	48.2	72.2



#21
Allyl Chloride
Concen: 0.032 ppbv
RT: 4.42 min Scan# 508
Delta R.T. 0.02 min
Lab File: VL037657.D
Acq: 23 Sep 2021 11:40

Tgt Ion:	41	Resp:	3821
Ion	Ratio	Lower	Upper
41	100		
76	51.8	23.1	34.7#
39	138.3	61.0	91.6#

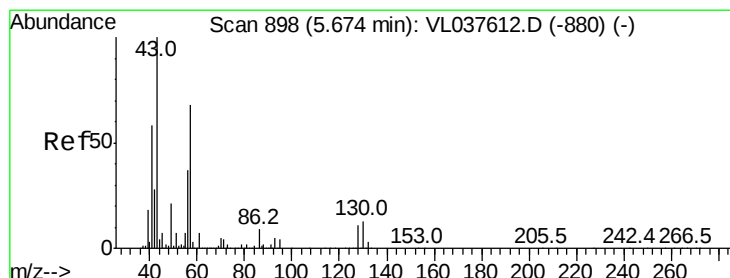
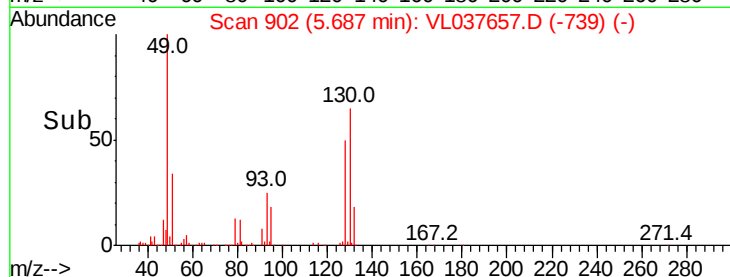
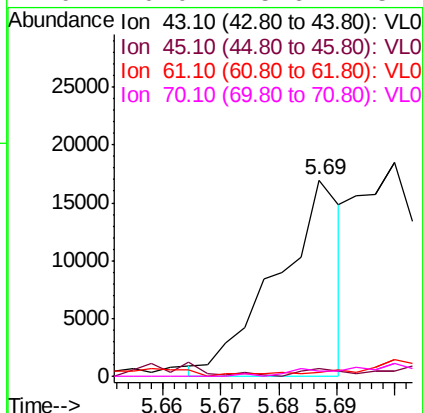
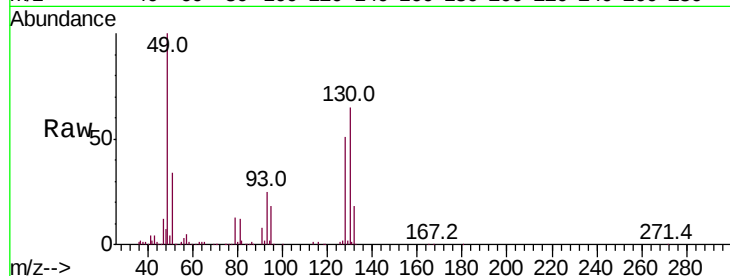




#25
Ethyl Acetate
Concen: 0.034 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.02 min
Lab File: VL037657.D
Acq: 23 Sep 2021 11:40

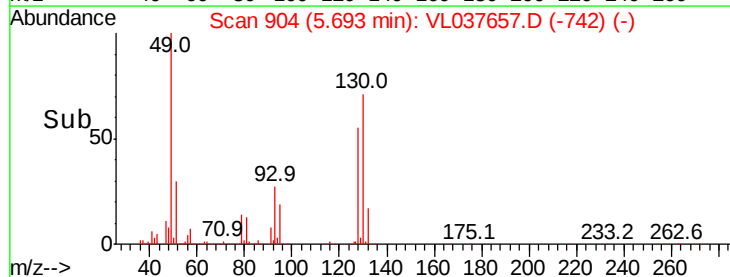
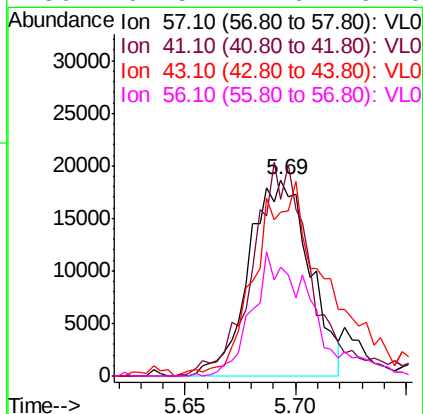
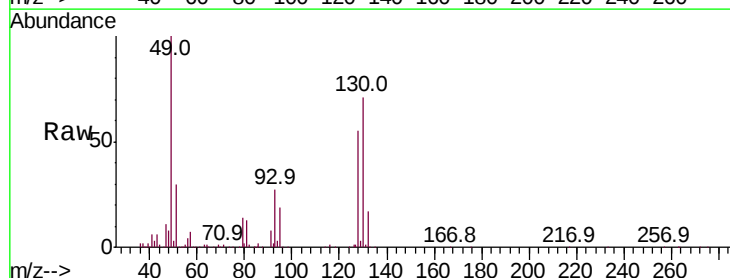
Instrument :
MSVOA_L
ClientSampleId :

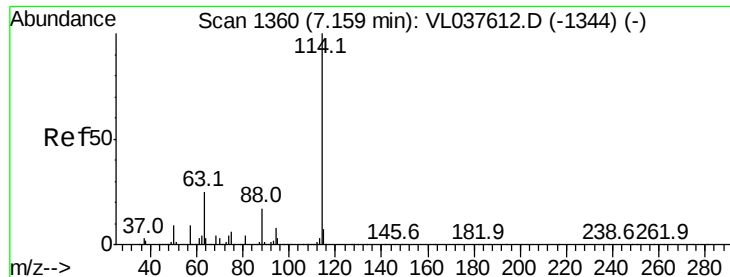
Tot Ion:	43	Resp:	13040
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.0	7.5	11.3#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 0.194 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL037657.D
Acq: 23 Sep 2021 11:40

Tgt Ion:	57	Resp:	35461
Ion	Ratio	Lower	Upper
57	100		
41	112.9	70.9	106.3#
43	116.4	170.4	255.6#
56	64.5	42.6	64.0#

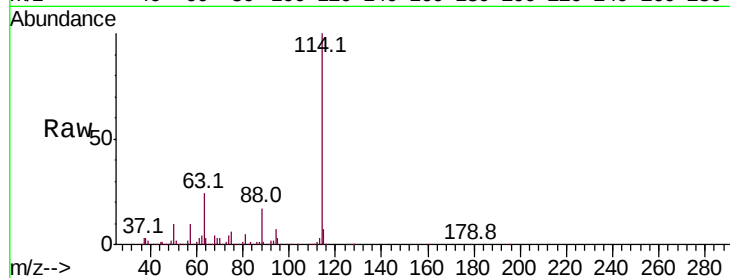




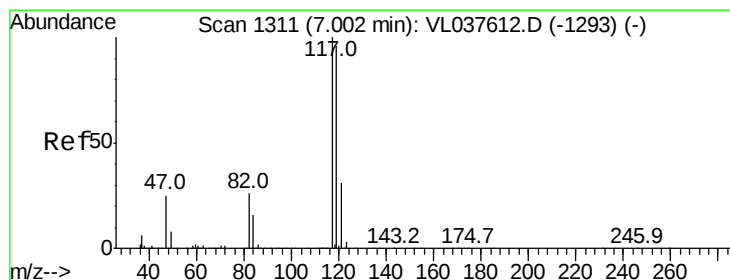
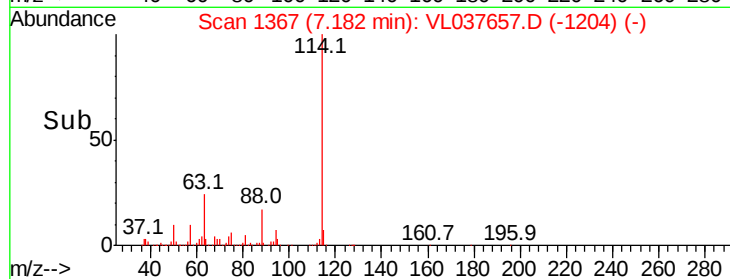
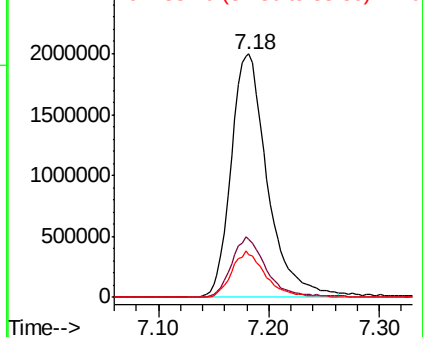
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.02 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4558757
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.6 29.4
 88 17.9 14.2 21.4

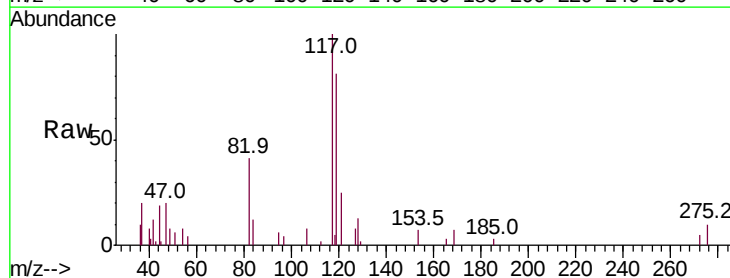


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

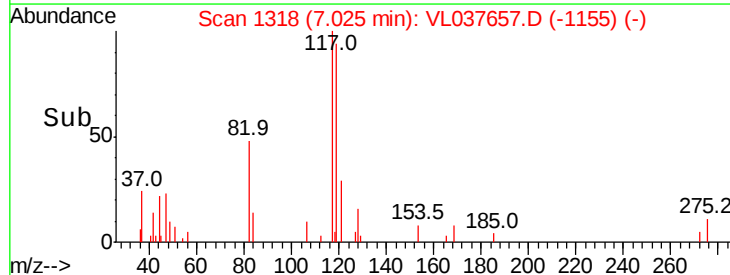
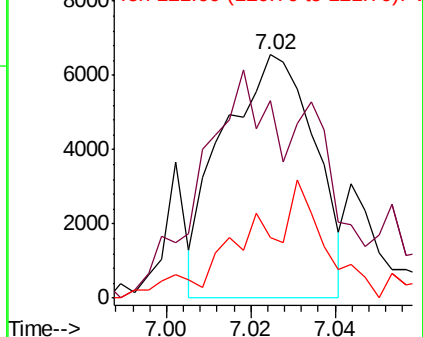


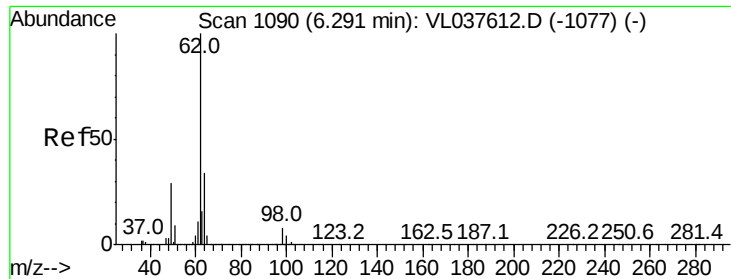
#35
 Carbon Tetrachloride
 Concen: 0.038 ppbv
 RT: 7.02 min Scan# 1318
 Delta R.T. 0.02 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

Tgt Ion:117 Resp: 9863
 Ion Ratio Lower Upper
 117 100
 119 67.6 77.0 115.6#
 121 21.3 24.5 36.7#



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V

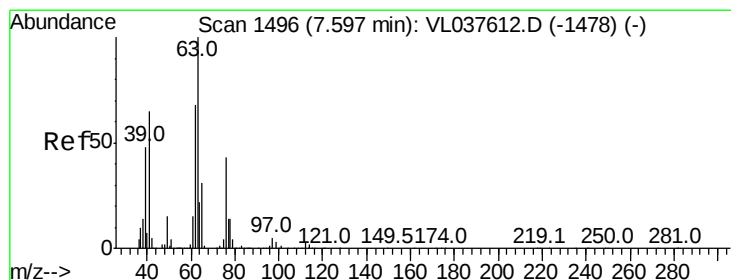
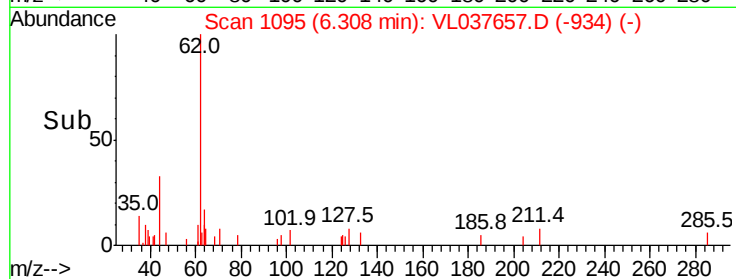
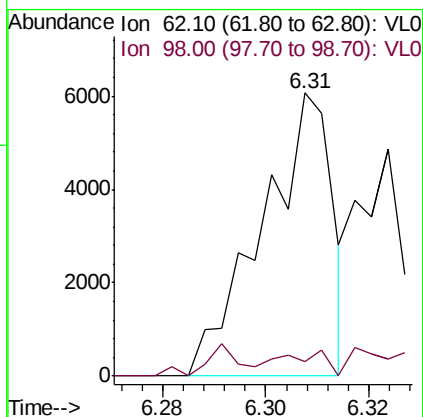
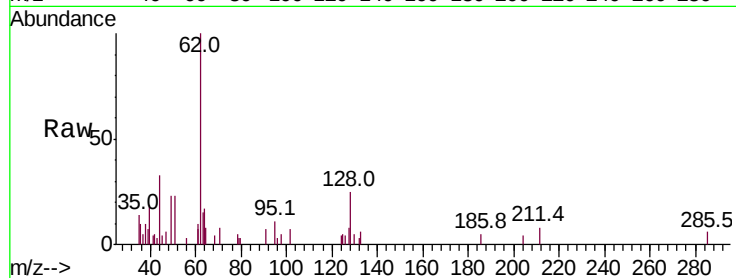




#37
 1,2-Dichloroethane
 Concen: 0.030 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. 0.02 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

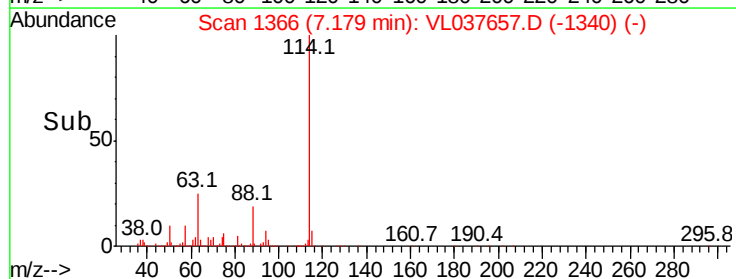
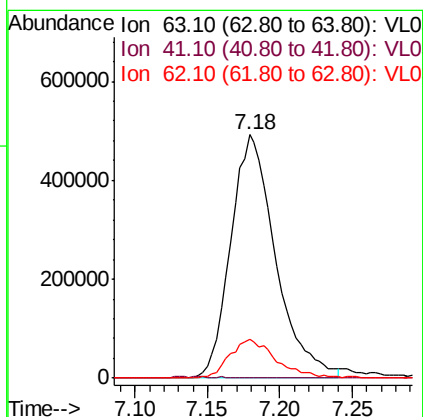
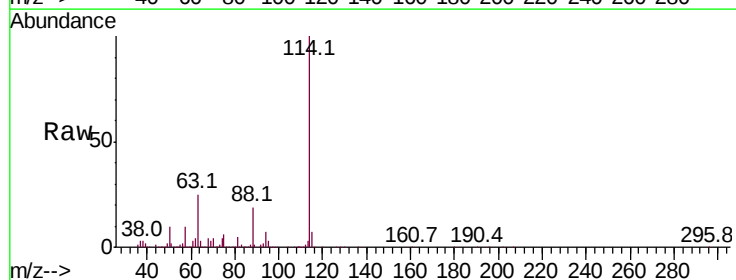
Instrument :
 MSVOA_L
 ClientSampleId :

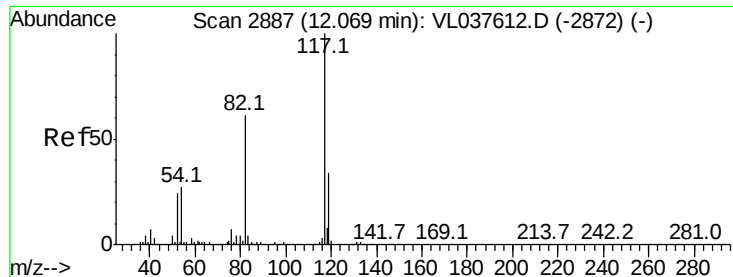
Tot Ion: 62 Resp: 5698
 Ion Ratio Lower Upper
 62 100
 98 18.0 6.1 9.1#



#39
 1,2-Dichloropropane
 Concen: 7.268 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.42 min
 Lab File: VL037657.D
 Acq: 23 Sep 2021 11:40

Tgt Ion: 63 Resp: 1058173
 Ion Ratio Lower Upper
 63 100
 41 0.1 51.6 77.4#
 62 15.7 54.6 81.8#

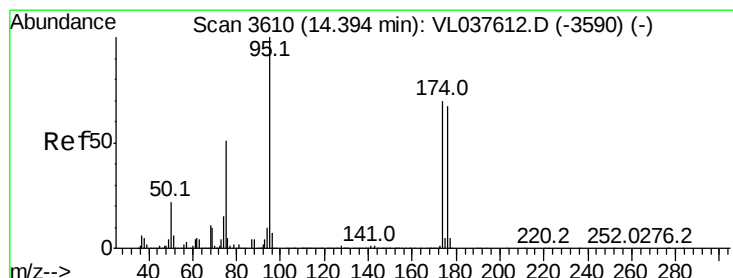
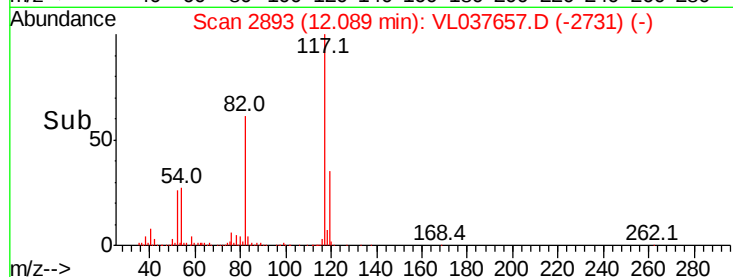
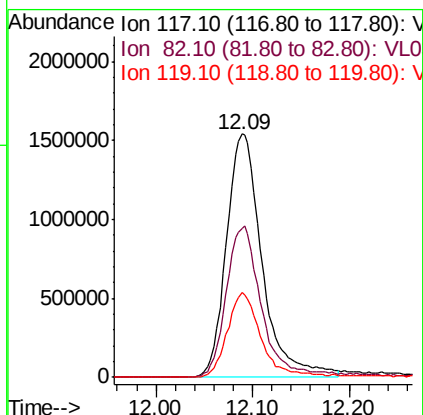
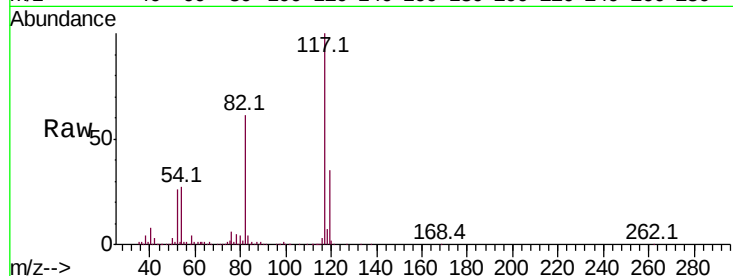




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. 0.02 min
Lab File: VL037657.D
Acq: 23 Sep 2021 11:40

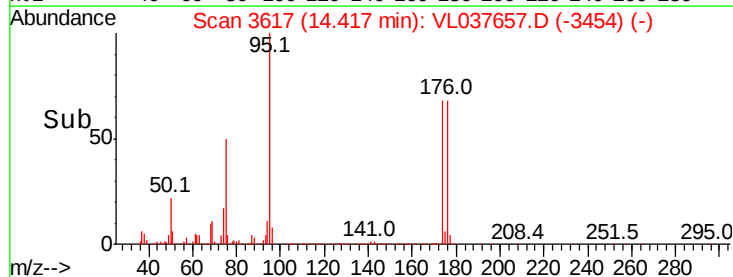
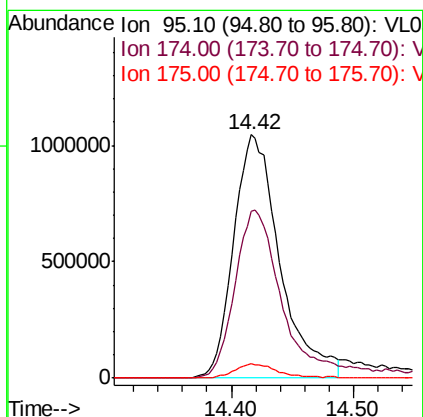
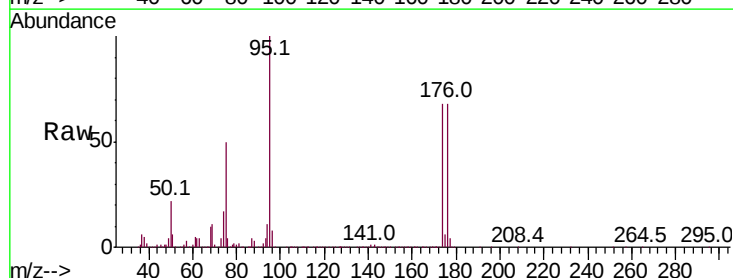
Instrument :
MSVOA_L
ClientSampleId :

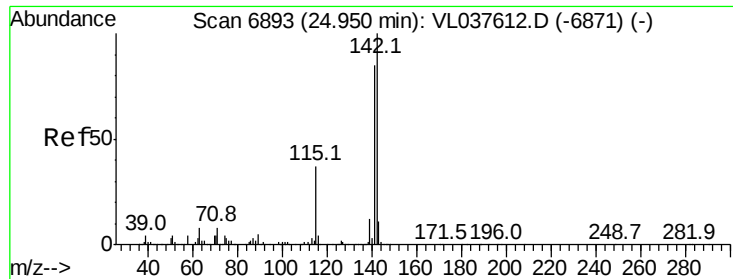
Tot Ion:117 Resp: 3951049
Ion Ratio Lower Upper
117 100
82 63.4 50.6 75.8
119 33.9 26.2 39.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.628 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.02 min
Lab File: VL037657.D
Acq: 23 Sep 2021 11:40

Tgt Ion: 95 Resp: 2749147
Ion Ratio Lower Upper
95 100
174 76.8 56.3 84.5
175 5.7 4.4 6.6





#80

Naphthalene, 2-methyl-

Concen: 0.084 ppbv

RT: 25.03 min Scan# 6918

Delta R.T. 0.08 min

Lab File: VL037657.D

Acq: 23 Sep 2021 11:40

Instrument :

MSVOA_L

ClientSampleId :

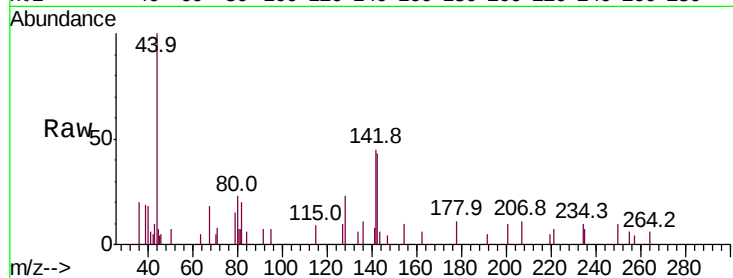
Tot Ion: 142 Resp: 5790

Ion Ratio Lower Upper

142 100

141 27.3 70.9 106.3#

115 8.0 29.6 44.4#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

