

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042735.D
 Acq On : 22 Jul 2025 17:42
 Operator : SY/MD
 Sample : Q2617-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 23 03:03:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	107252	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	308118	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	275966	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	226230	10.143	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
7) Chloroethane	1.738	64	79	0.031	ppbv #	42
9) Propene	1.486	41	706	0.105	ppbv #	1
13) Ethanol	1.440	45	94380	83.507	ppbv #	1
15) Acetone	1.839	43	14369	0.800	ppbv	99
16) 1,3-Butadiene	1.612	39	378	0.049	ppbv #	16
19) Isopropyl Alcohol	1.440	45	94380	9.917	ppbv #	37
20) Methylene Chloride	2.065	84	1526	0.270	ppbv #	67
21) Allyl Chloride	2.097	41	391	0.034	ppbv #	1
25) Ethyl Acetate	2.829	43	2717	0.082	ppbv #	77
26) Hexane	2.829	57	2820	0.194	ppbv #	57
27) Carbon Disulfide	2.156	76	516	0.033	ppbv #	1
34) 2-Butanone	2.564	43	2485	0.117	ppbv	96
39) 1,2-Dichloropropane	3.959	63	83895	7.871	ppbv #	20
53) Toluene	6.939	91	2511	0.078	ppbv #	20
74) 1,2,4-Trimethylbenzene	11.536	105	1212	0.030	ppbv #	60

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

Instrument :

MSVOA_L

ClientSampleId :

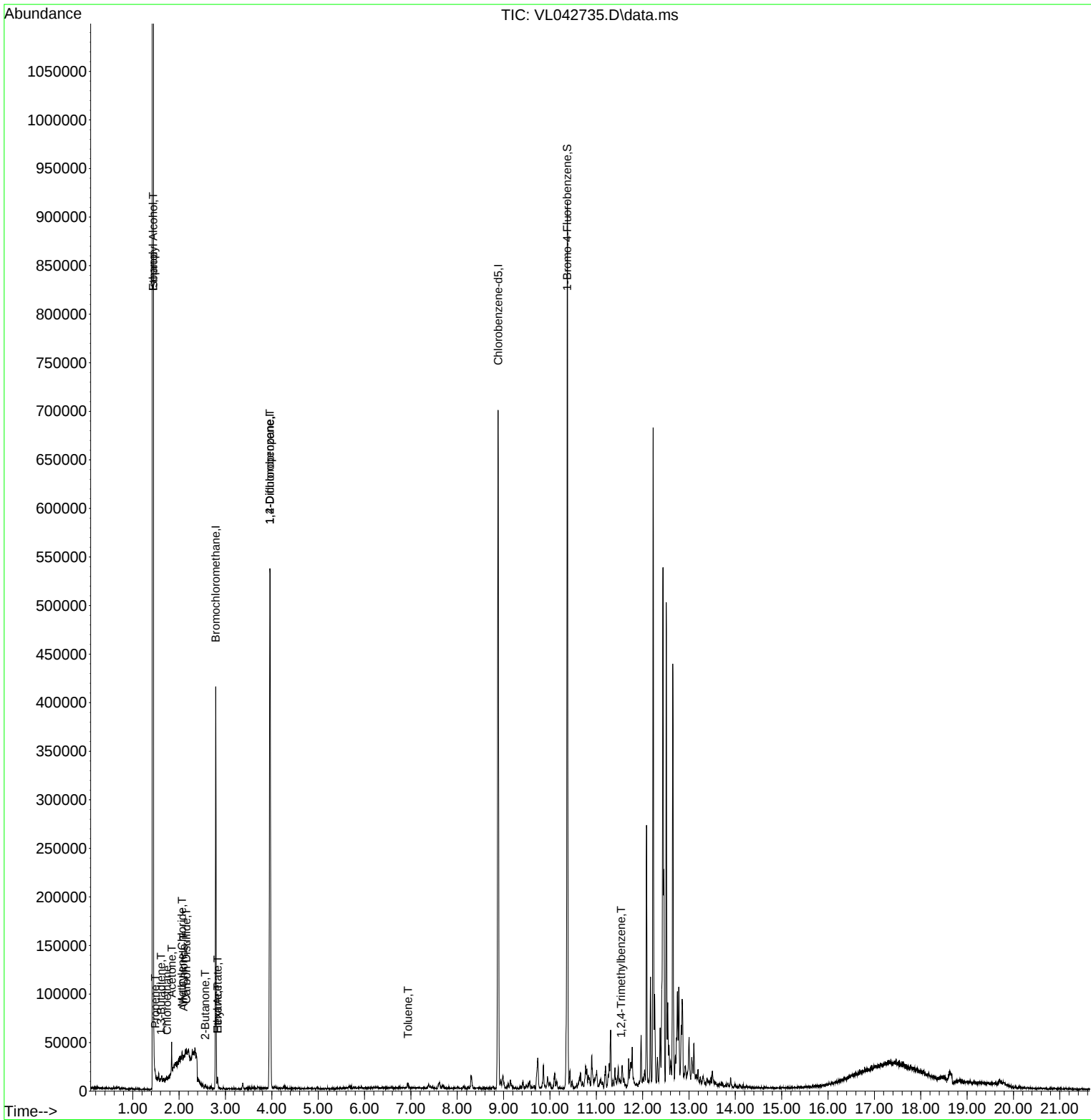
Quant Time: Jul 23 03:03:47 2025

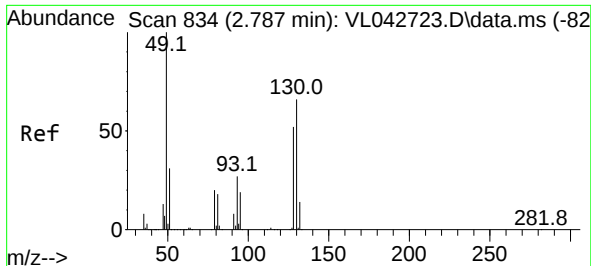
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration

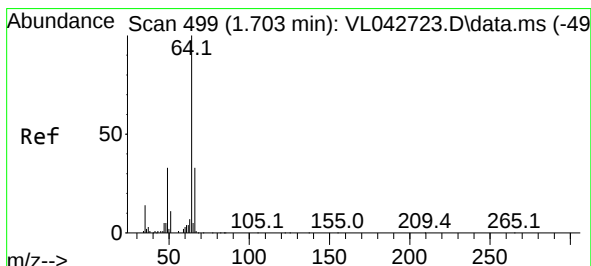
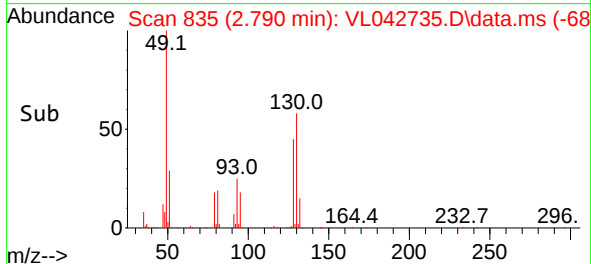
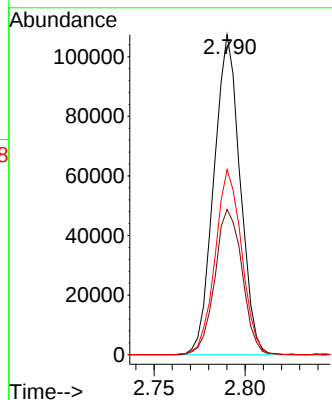
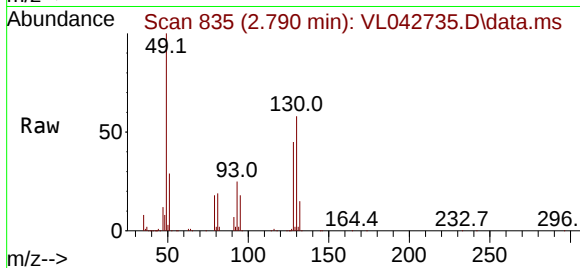




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

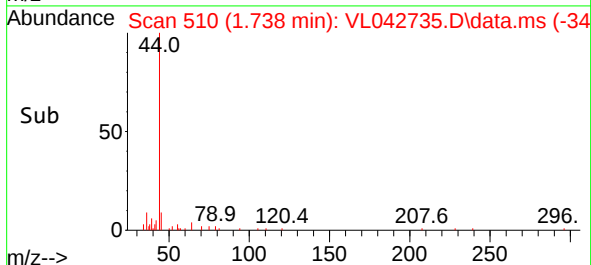
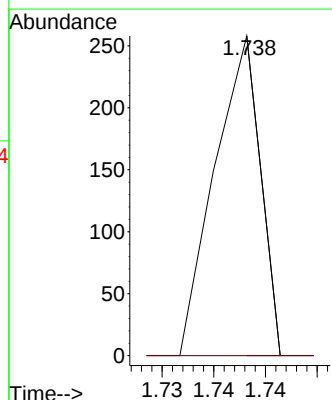
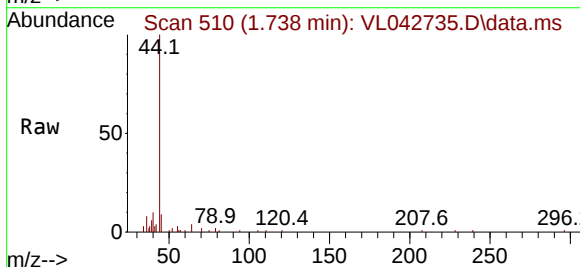
Instrument :
MSVOA_L
ClientSampleId :

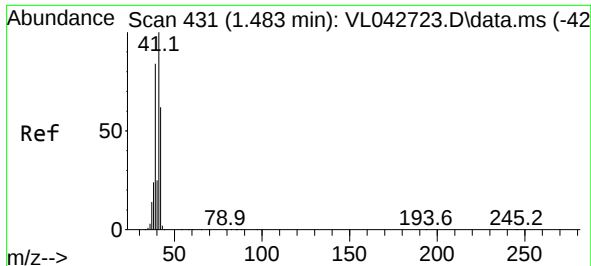
Tgt Ion: 49 Resp: 107252
Ion Ratio Lower Upper
49 100
128 47.3 24.5 73.5
130 58.8 31.7 95.1



#7
Chloroethane
Concen: 0.031 ppbv
RT: 1.738 min Scan# 510
Delta R.T. 0.036 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

Tgt Ion: 64 Resp: 79
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#





#9

Propene

Concen: 0.105 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042735.D

Acq: 22 Jul 2025 17:42

Instrument :

MSVOA_L

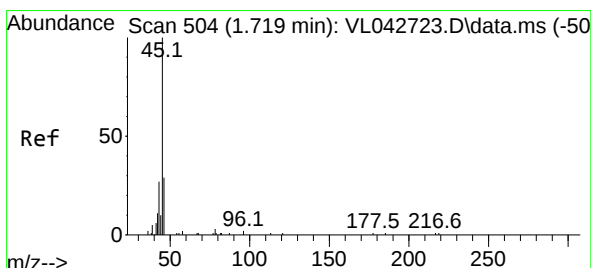
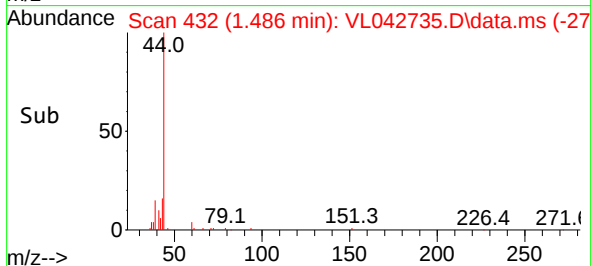
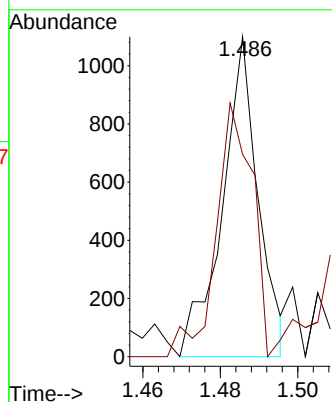
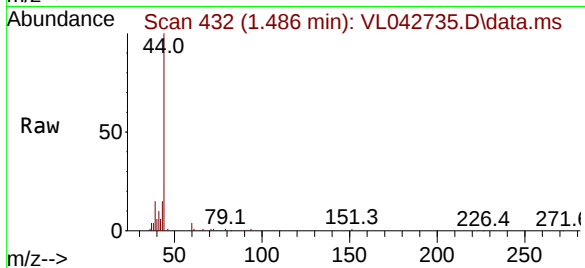
ClientSampleId :

Tgt Ion: 41 Resp: 706

Ion Ratio Lower Upper

41 100

42 147.7 52.0 78.0#



#13

Ethanol

Concen: 83.507 ppbv

RT: 1.440 min Scan# 418

Delta R.T. -0.278 min

Lab File: VL042735.D

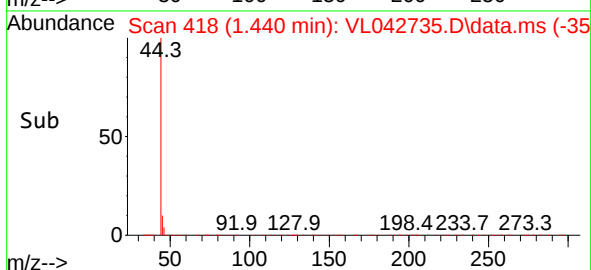
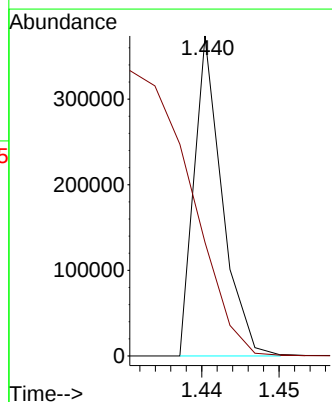
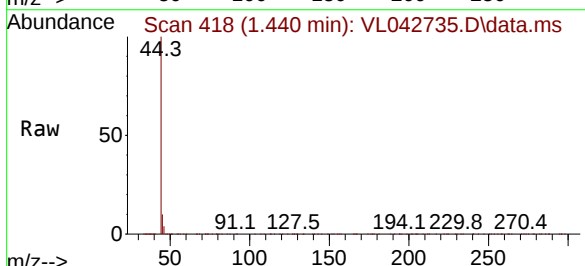
Acq: 22 Jul 2025 17:42

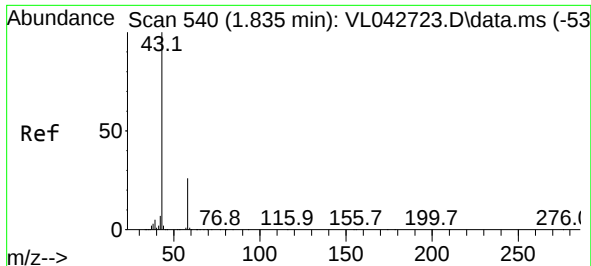
Tgt Ion: 45 Resp: 94380

Ion Ratio Lower Upper

45 100

46 405.2 16.3 65.1#

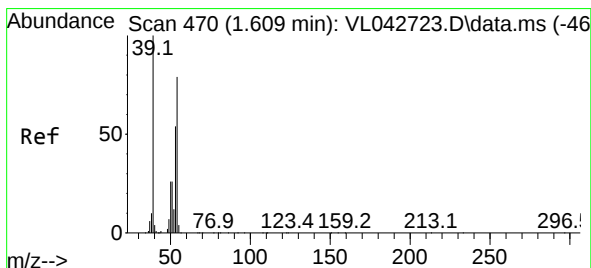
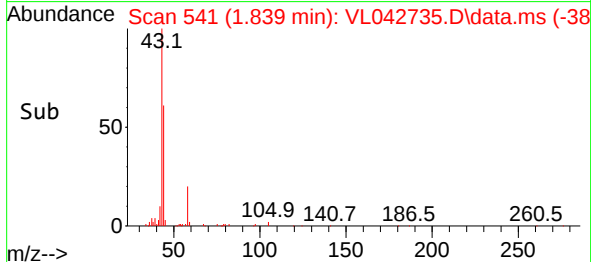
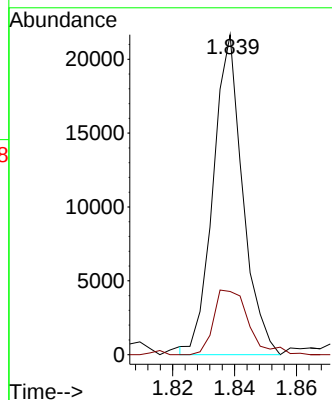
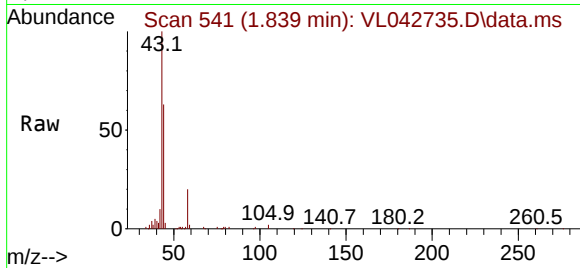




#15
Acetone
Concen: 0.800 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

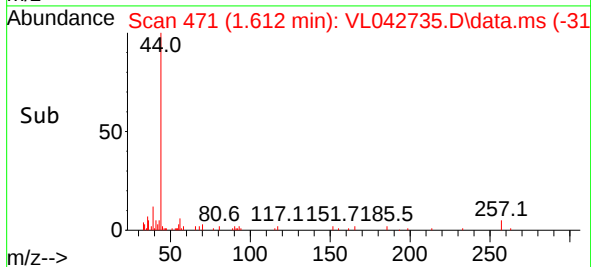
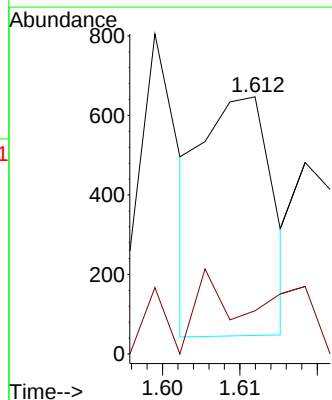
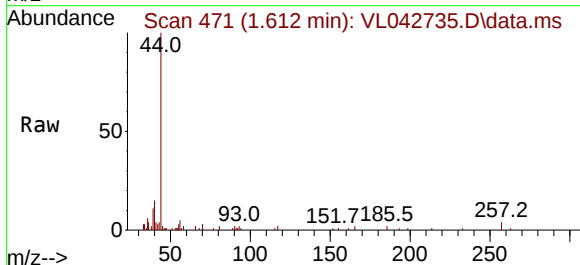
Instrument :
MSVOA_L
ClientSampleId :

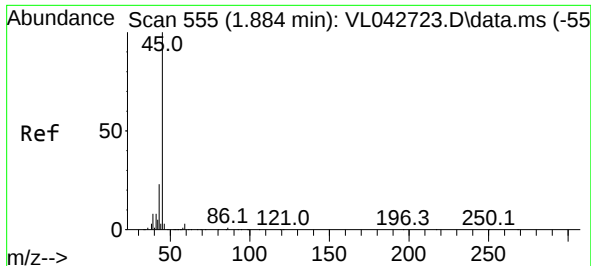
Tgt Ion: 43 Resp: 14369
Ion Ratio Lower Upper
43 100
58 24.9 20.5 30.7



#16
1,3-Butadiene
Concen: 0.049 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

Tgt Ion: 39 Resp: 378
Ion Ratio Lower Upper
39 100
54 0.0 54.6 82.0#

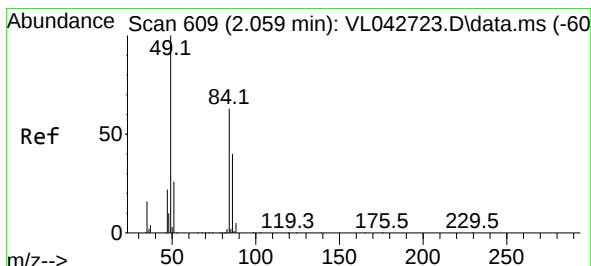
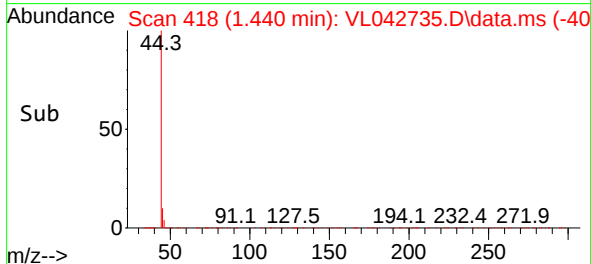
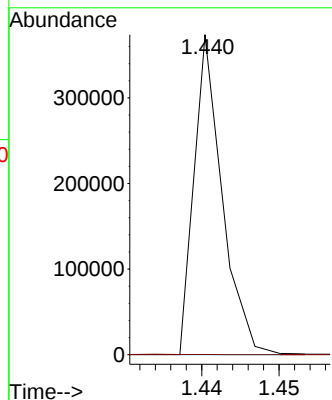
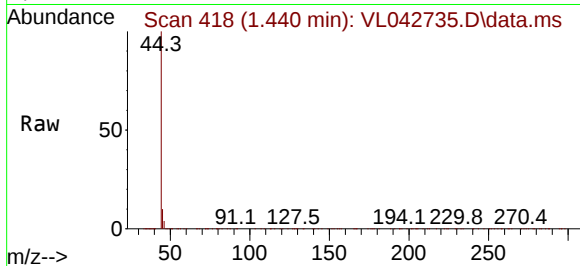




#19
Isopropyl Alcohol
Concen: 9.917 ppbv
RT: 1.440 min Scan# 418
Delta R.T. -0.444 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

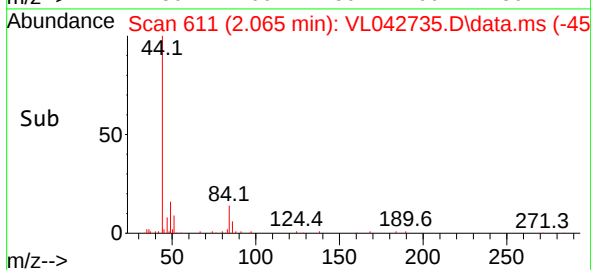
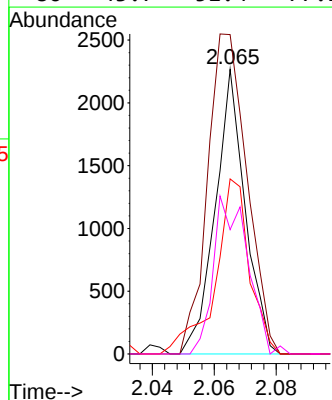
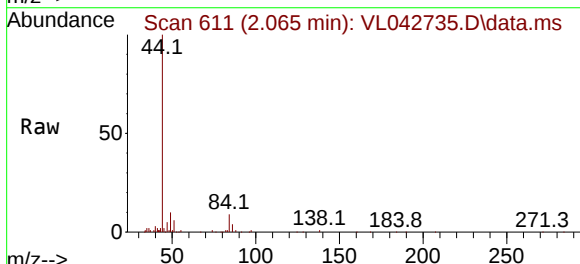
Instrument :
MSVOA_L
ClientSampleId :

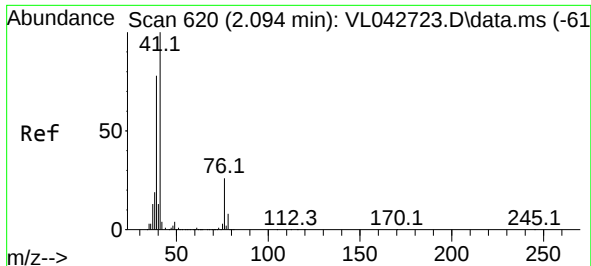
Tgt Ion: 45 Resp: 94380
Ion Ratio Lower Upper
45 100
58 0.4 30.6 46.0#



#20
Methylene Chloride
Concen: 0.270 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

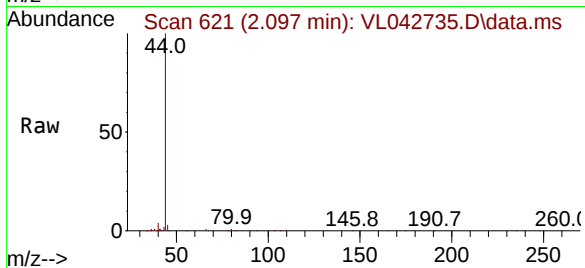
Tgt Ion: 84 Resp: 1526
Ion Ratio Lower Upper
84 100
49 112.2 128.2 192.4#
51 61.5 34.5 51.7#
86 43.7 51.4 77.2#



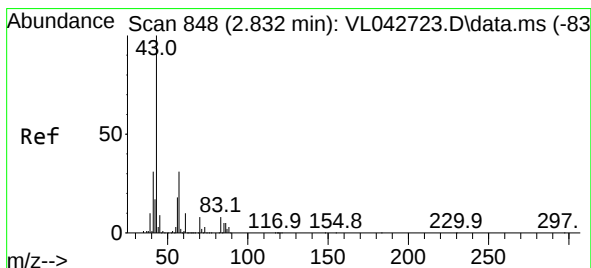
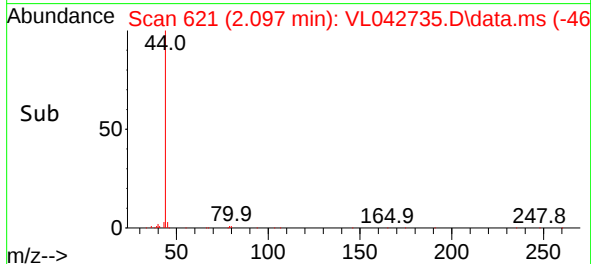
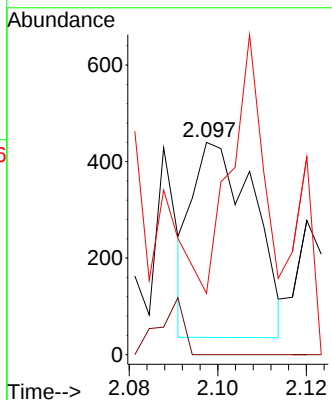


#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 2.097 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

Instrument :
MSVOA_L
ClientSampleId :

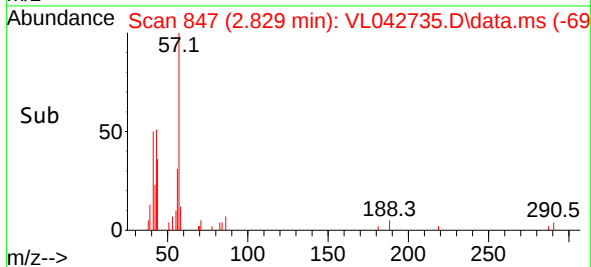
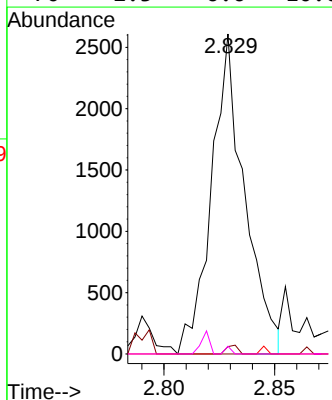
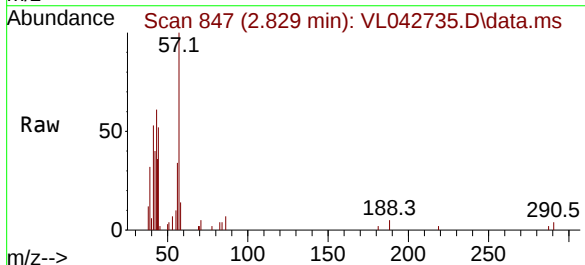


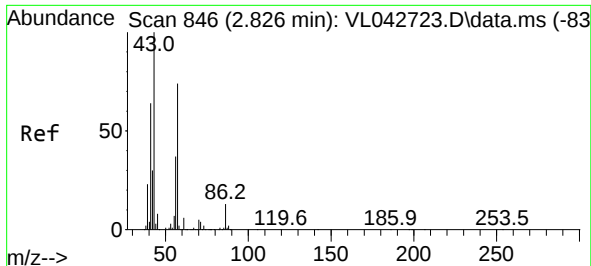
Tgt Ion: 41 Resp: 391
Ion Ratio Lower Upper
41 100
76 0.0 22.1 33.1#
39 295.7 64.7 97.1#



#25
Ethyl Acetate
Concen: 0.082 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

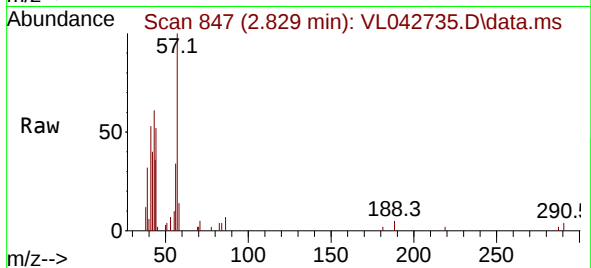
Tgt Ion: 43 Resp: 2717
Ion Ratio Lower Upper
43 100
45 0.0 7.8 11.6#
61 0.0 7.0 10.6#
70 2.3 6.6 10.0#



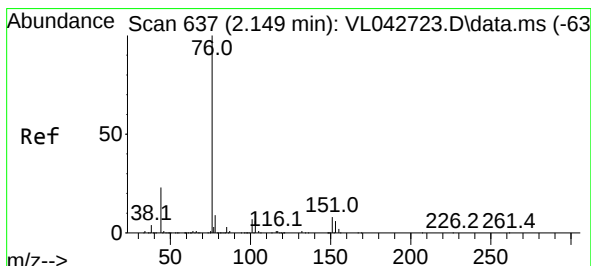
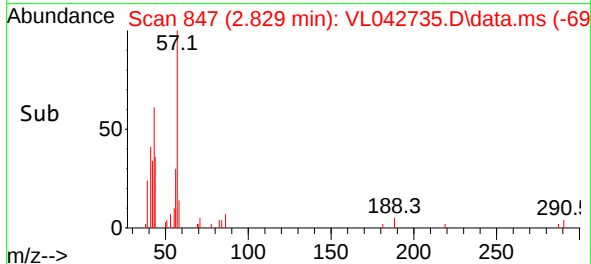
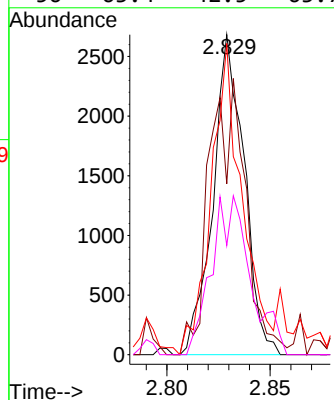


#26
Hexane
Concen: 0.194 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

Instrument :
MSVOA_L
ClientSampleId :

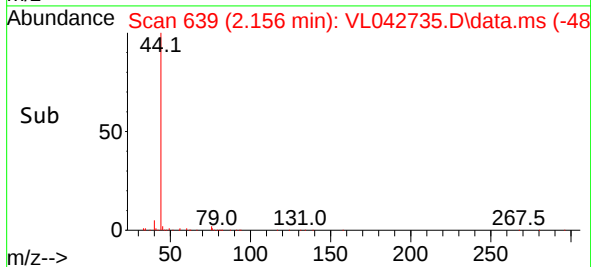
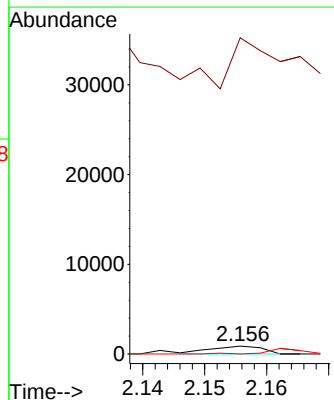
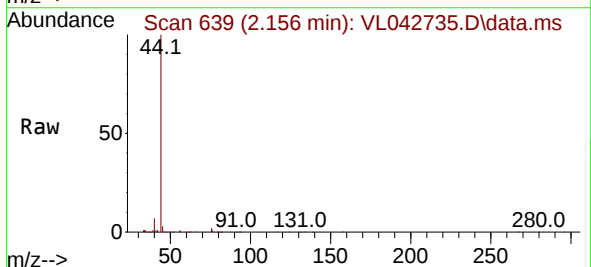


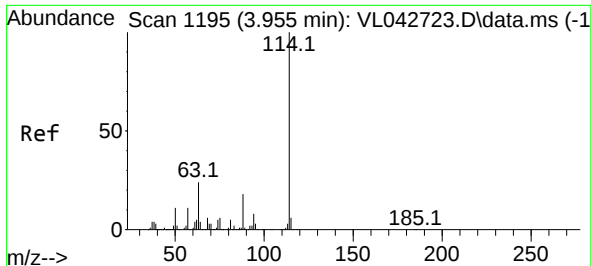
Tgt Ion: 57 Resp: 2820
Ion Ratio Lower Upper
57 100
41 104.1 77.3 115.9
43 122.8 182.3 273.5#
56 63.4 42.5 63.7



#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.006 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

Tgt Ion: 76 Resp: 516
Ion Ratio Lower Upper
76 100
44 9750.0 18.8 28.2#
78 80.2 9.5 14.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042735.D

Acq: 22 Jul 2025 17:42

Instrument :

MSVOA_L

ClientSampleId :

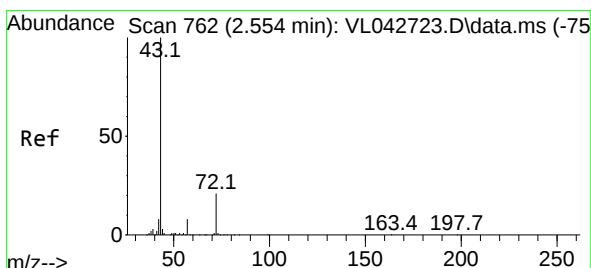
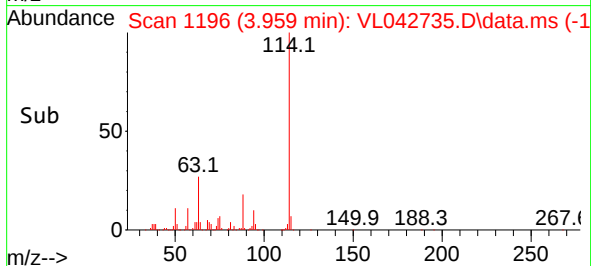
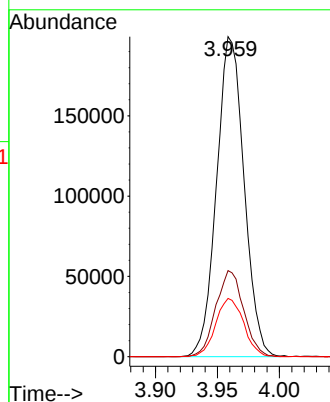
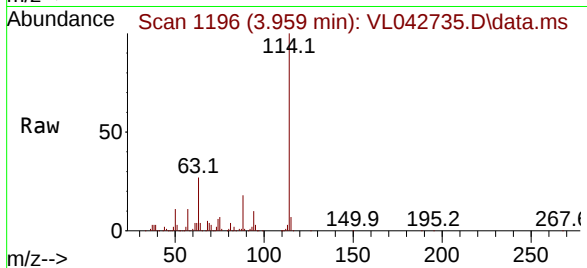
Tgt Ion:114 Resp: 308118

Ion Ratio Lower Upper

114 100

63 27.3 20.4 30.6

88 18.5 14.5 21.7



#34

2-Butanone

Concen: 0.117 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042735.D

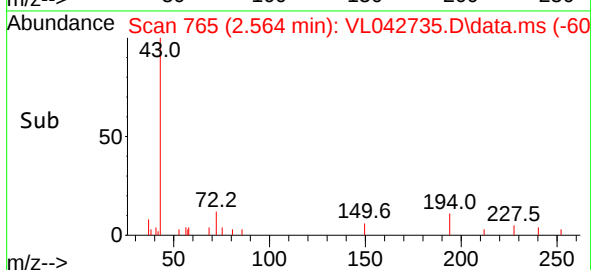
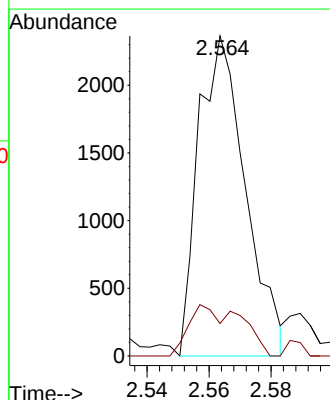
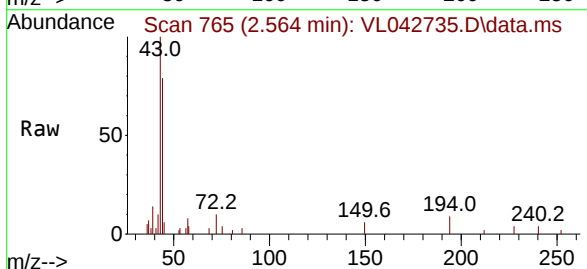
Acq: 22 Jul 2025 17:42

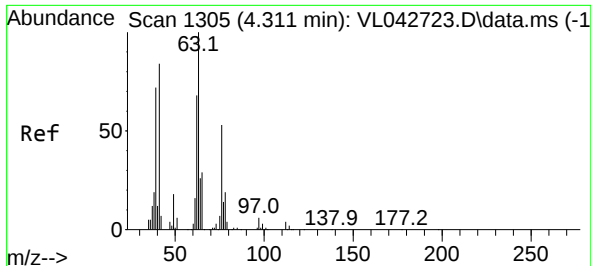
Tgt Ion: 43 Resp: 2485

Ion Ratio Lower Upper

43 100

72 19.5 17.0 25.6





#39

1,2-Dichloropropane

Concen: 7.871 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042735.D

Acq: 22 Jul 2025 17:42

Instrument :

MSVOA_L

ClientSampleId :

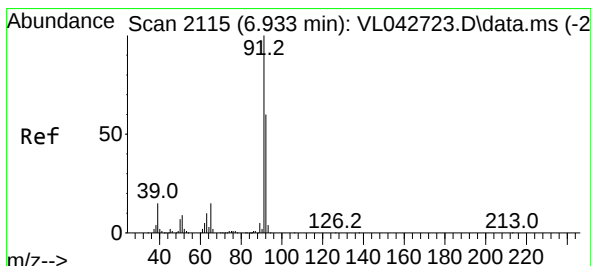
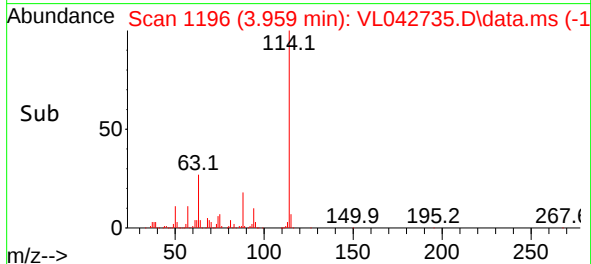
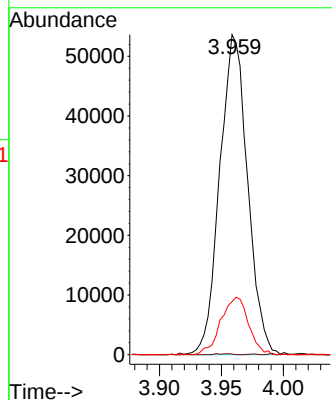
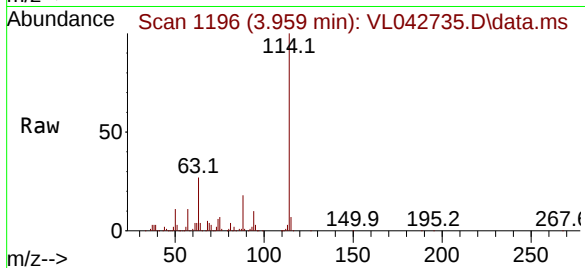
Tgt Ion: 63 Resp: 83895

Ion Ratio Lower Upper

63 100

41 0.2 67.7 101.5#

62 16.6 54.1 81.1#



#53

Toluene

Concen: 0.078 ppbv

RT: 6.939 min Scan# 2117

Delta R.T. 0.006 min

Lab File: VL042735.D

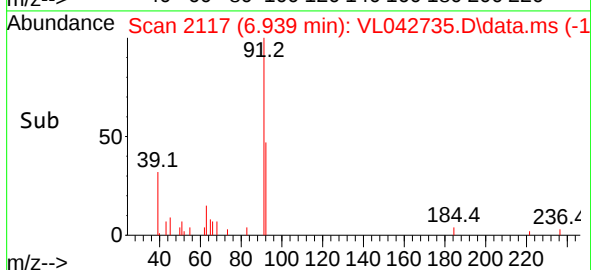
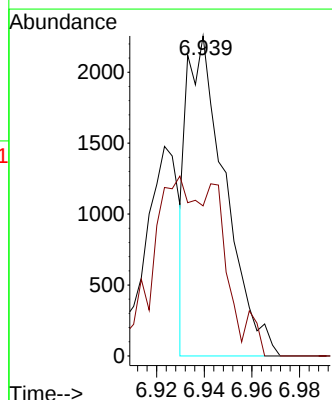
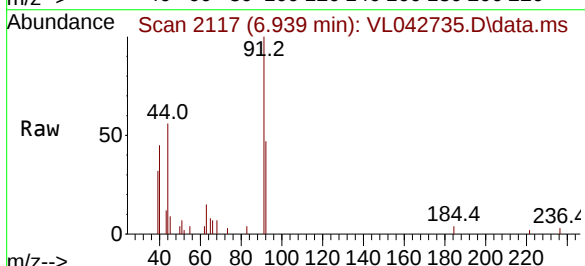
Acq: 22 Jul 2025 17:42

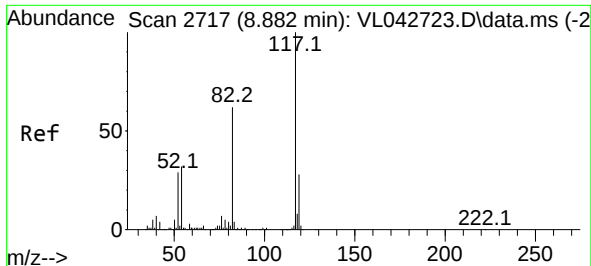
Tgt Ion: 91 Resp: 2511

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.4#

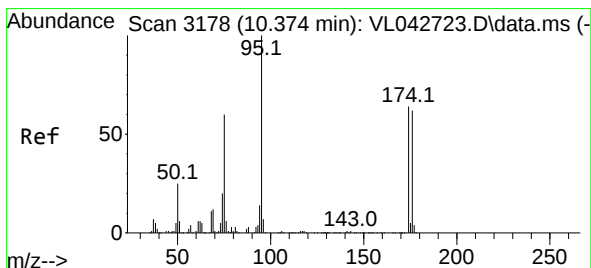
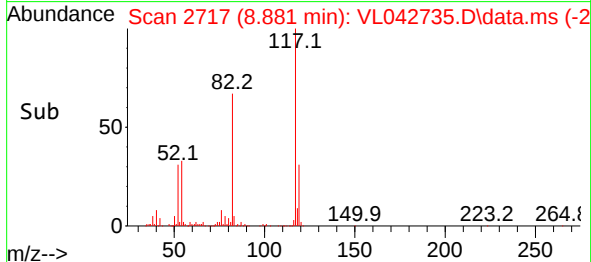
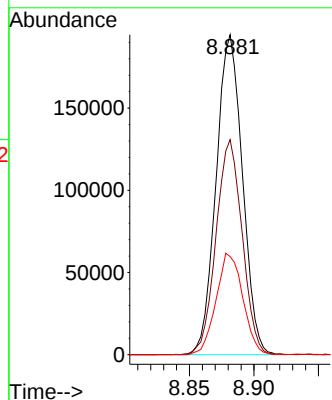
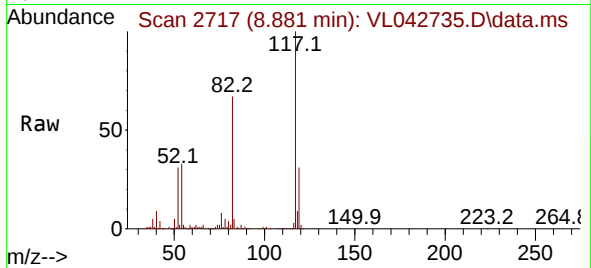




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

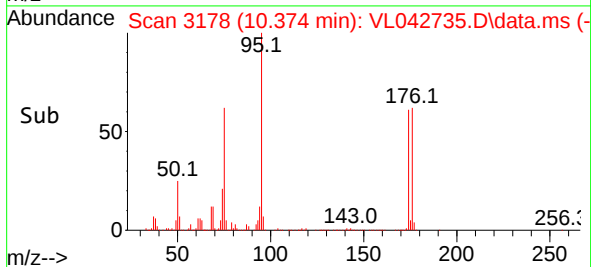
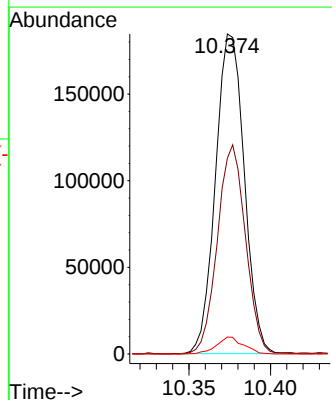
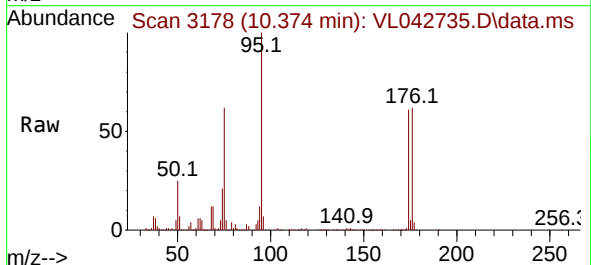
Instrument :
MSVOA_L
ClientSampleId :

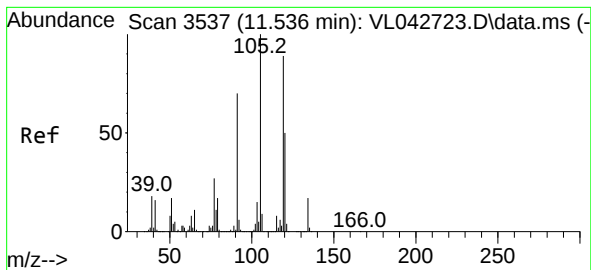
Tgt Ion:117 Resp: 275966
Ion Ratio Lower Upper
117 100
82 66.7 54.6 81.8
119 32.2 25.3 37.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.143 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL042735.D
Acq: 22 Jul 2025 17:42

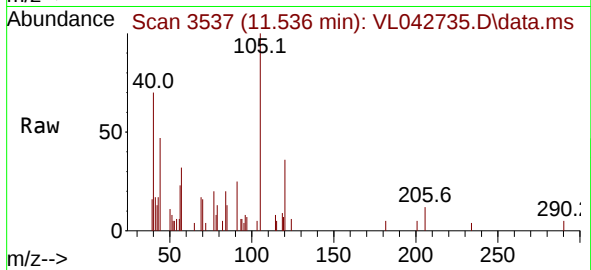
Tgt Ion: 95 Resp: 226230
Ion Ratio Lower Upper
95 100
174 64.0 51.4 77.2
175 4.9 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.030 ppbv
 RT: 11.536 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL042735.D
 Acq: 22 Jul 2025 17:42

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	1212
Ion	Ratio	Lower	Upper
105	100		
120	36.3	39.9	59.9#
91	18.3	56.5	84.7#
77	20.2	21.8	32.6#

