

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
 Data File : VL042072.D
 Acq On : 27 Feb 2025 14:00
 Operator : SY/MD
 Sample : Q1450-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Feb 28 00:27:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

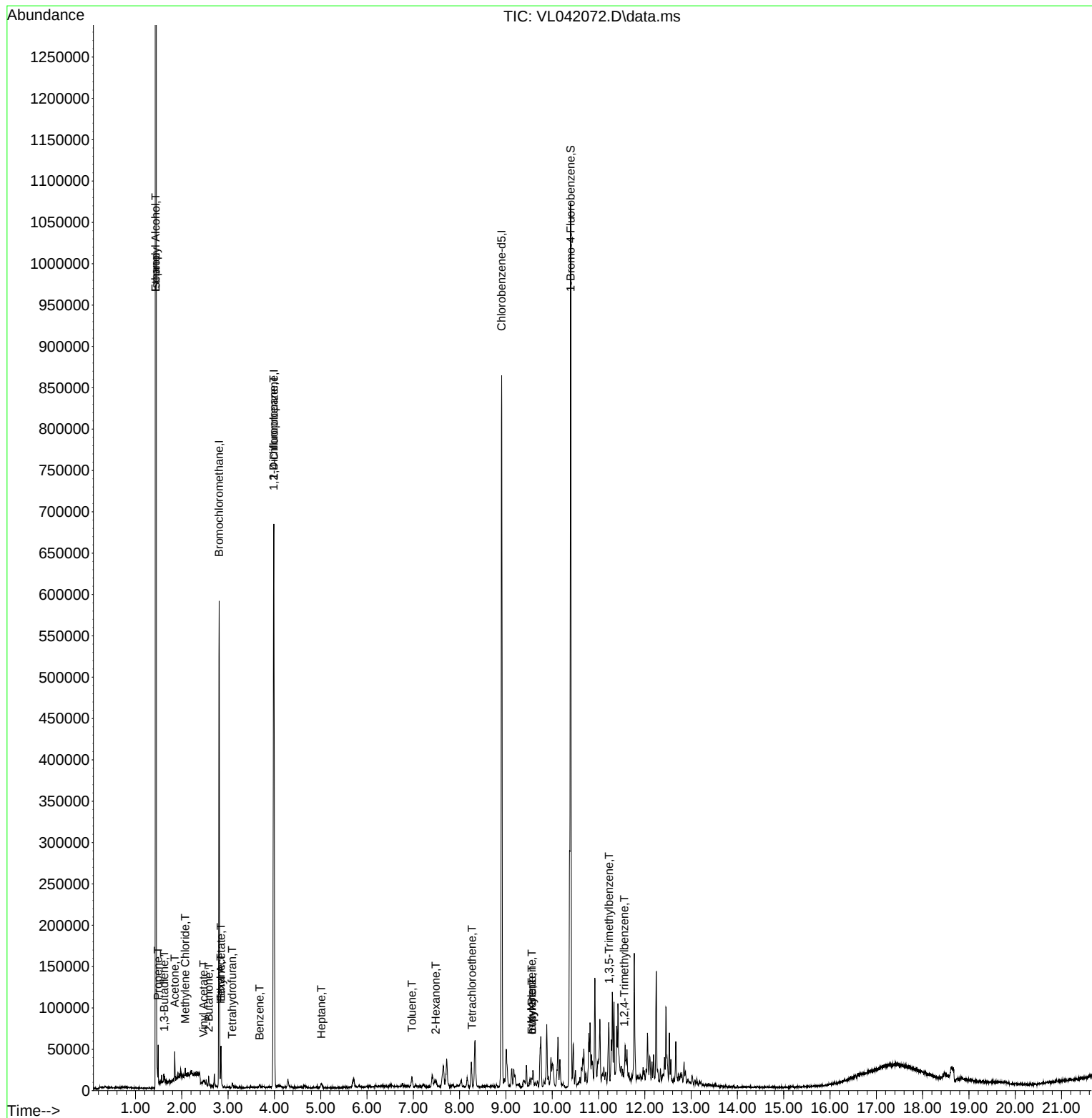
Internal Standards						
1) Bromochloromethane	2.806	49	174112	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.988	114	404465	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.908	117	341294	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	277042	10.551	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.500%	
Target Compounds						
					Qvalue	
9) Propene	1.489	41	6581	0.638	ppbv	88
10) Heptane	5.014	43	1342	0.042	ppbv #	28
13) Ethanol	1.437	45	269411	411.678	ppbv	77
15) Acetone	1.848	43	15080	0.981	ppbv	96
16) 1,3-Butadiene	1.619	39	603	0.084	ppbv #	1
19) Isopropyl Alcohol	1.437	45	269411	30.503	ppbv #	32
20) Methylene Chloride	2.075	84	1098	0.189	ppbv	95
23) Vinyl Acetate	2.473	43	371	0.034	ppbv #	14
25) Ethyl Acetate	2.845	43	8631	0.140	ppbv #	77
26) Hexane	2.842	57	12058	0.485	ppbv #	34
34) 2-Butanone	2.583	43	7735	0.245	ppbv	97
36) Benzene	3.680	78	2336	0.055	ppbv #	77
39) 1,2-Dichloropropane	3.985	63	107692	6.701	ppbv #	23
41) Tetrahydrofuran	3.091	42	1424	0.076	ppbv #	63
51) 2-Hexanone	7.483	43	4881	0.174	ppbv #	92
52) Tetrachloroethene	8.267	164	730	0.050	ppbv #	77
53) Toluene	6.969	91	7353	0.155	ppbv	94
58) Ethyl Benzene	9.558	91	5285	0.084	ppbv	100
59) m/p-Xylene	9.558	91	5285	0.106	ppbv #	100
60) o-Xylene	9.558	91	5285	0.105	ppbv	91
73) 1,3,5-Trimethylbenzene	11.225	105	1968	0.037	ppbv	92
74) 1,2,4-Trimethylbenzene	11.555	105	3908	0.065	ppbv #	50

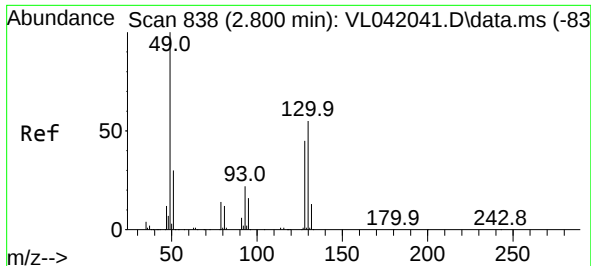
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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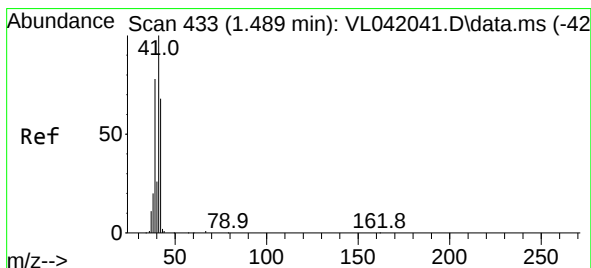
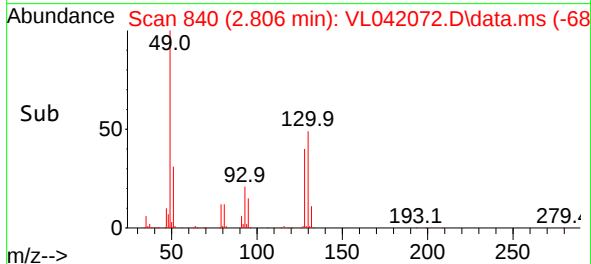
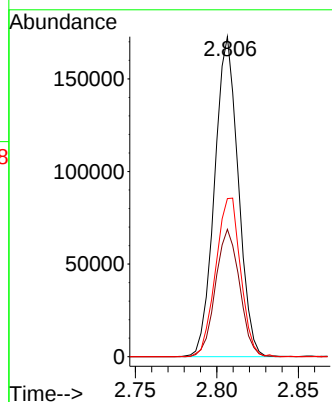
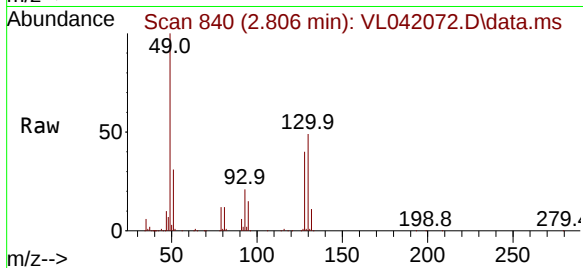




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

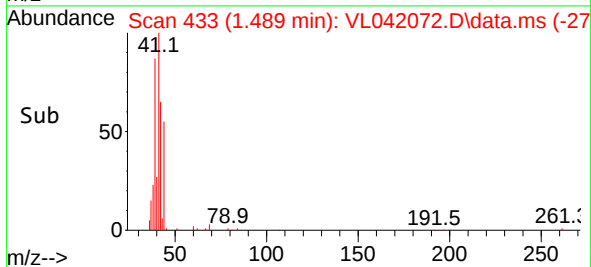
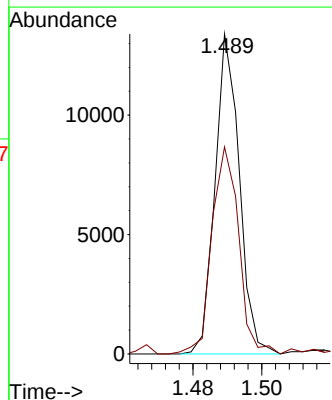
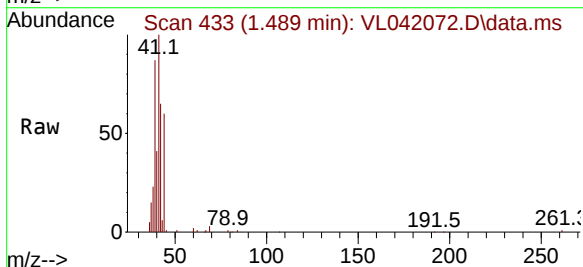
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

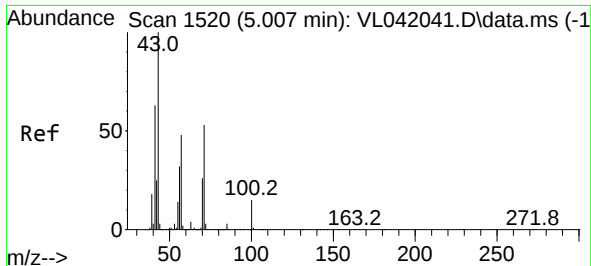
Tgt Ion: 49 Resp: 174112
Ion Ratio Lower Upper
49 100
128 40.6 21.6 64.8
130 52.2 27.8 83.4



#9
Propene
Concen: 0.638 ppbv
RT: 1.489 min Scan# 433
Delta R.T. -0.000 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 41 Resp: 6581
Ion Ratio Lower Upper
41 100
42 79.1 55.8 83.6

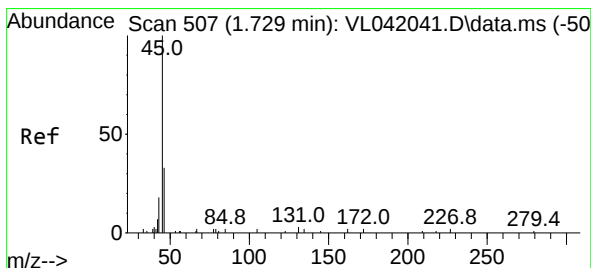
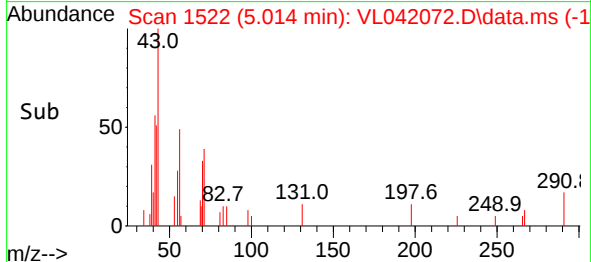
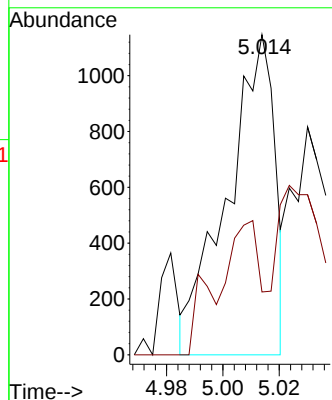
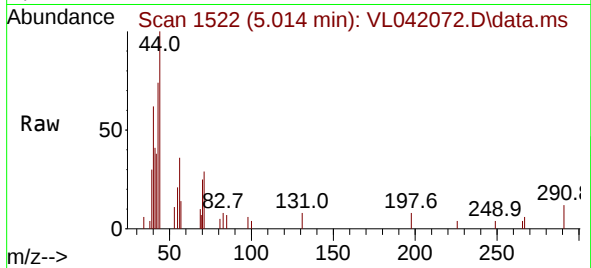




#10
Heptane
Concen: 0.042 ppbv
RT: 5.014 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

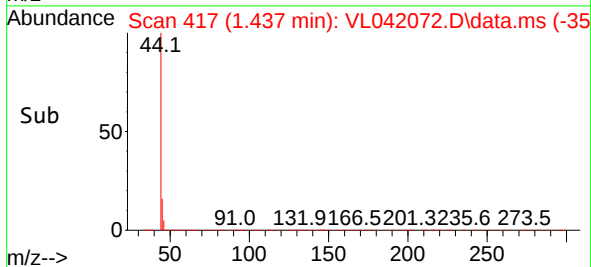
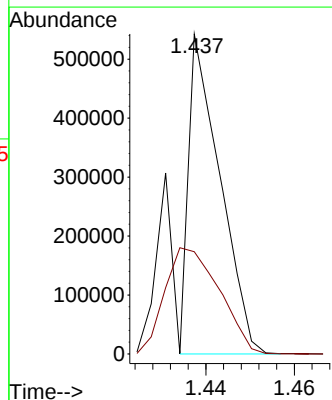
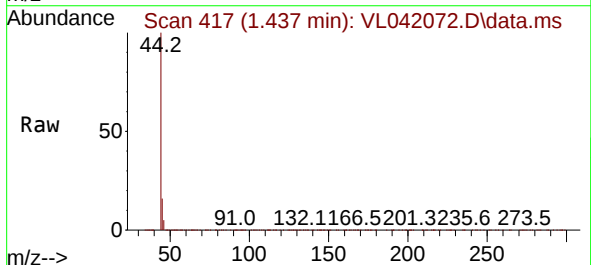
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

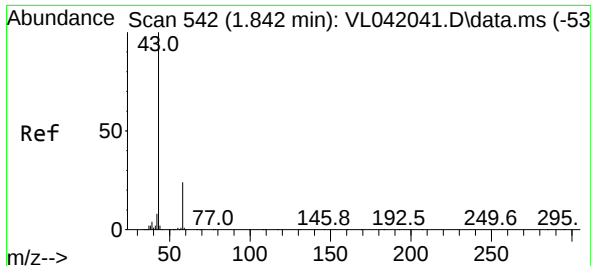
Tgt Ion: 43 Resp: 1342
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.0#



#13
Ethanol
Concen: 411.678 ppbv
RT: 1.437 min Scan# 417
Delta R.T. -0.291 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 45 Resp: 269411
Ion Ratio Lower Upper
45 100
46 57.4 17.1 68.3





#15

Acetone

Concen: 0.981 ppbv

RT: 1.848 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042072.D

Acq: 27 Feb 2025 14:00

Instrument :

MSVOA_L

ClientSampleId :

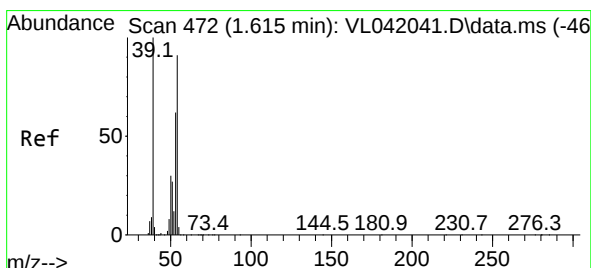
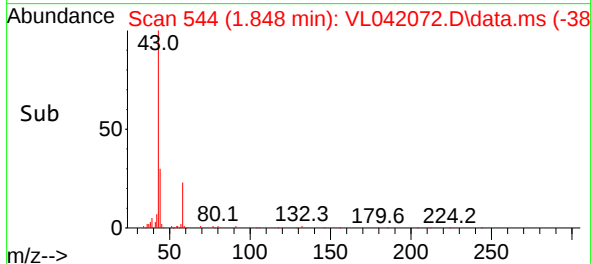
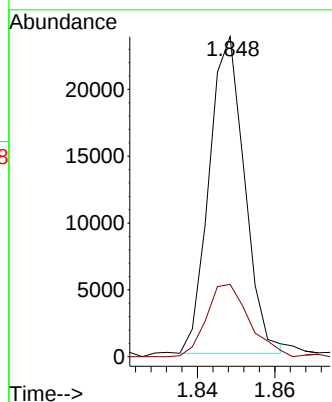
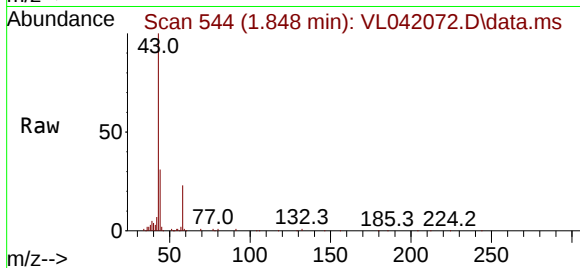
SV1DL

Tgt Ion: 43 Resp: 15080

Ion Ratio Lower Upper

43 100

58 27.9 20.7 31.1



#16

1,3-Butadiene

Concen: 0.084 ppbv

RT: 1.619 min Scan# 473

Delta R.T. 0.003 min

Lab File: VL042072.D

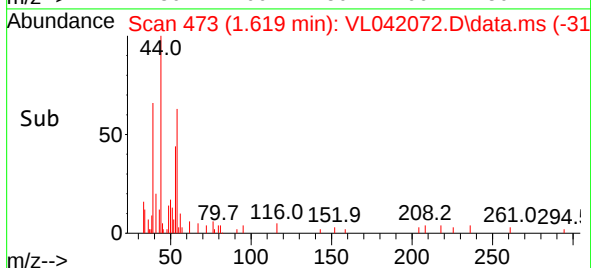
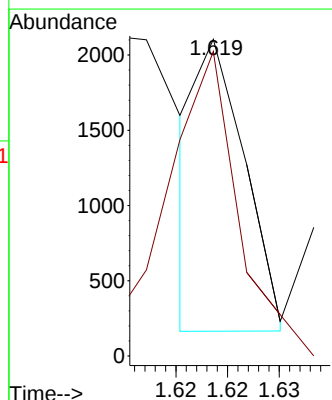
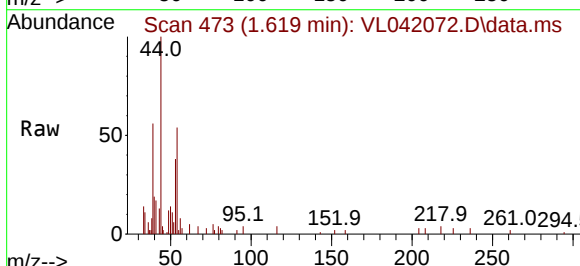
Acq: 27 Feb 2025 14:00

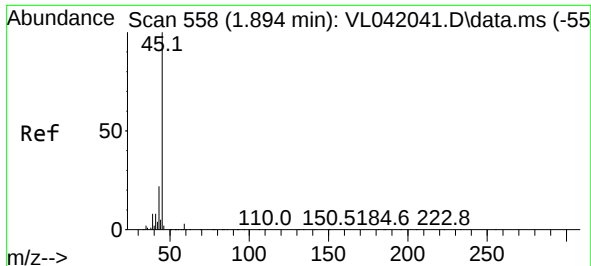
Tgt Ion: 39 Resp: 603

Ion Ratio Lower Upper

39 100

54 216.3 59.6 89.4#

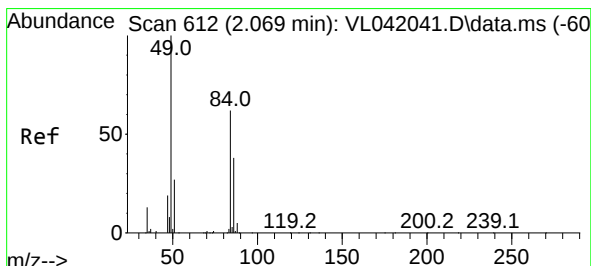
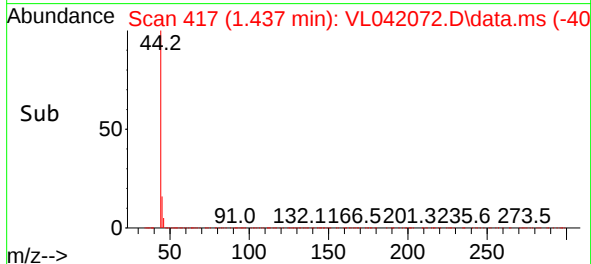
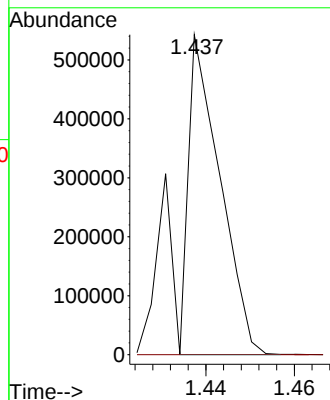
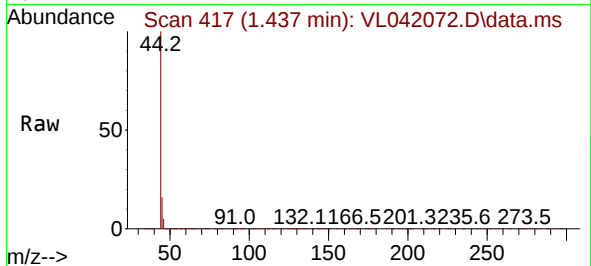




#19
Isopropyl Alcohol
Concen: 30.503 ppbv
RT: 1.437 min Scan# 417
Delta R.T. -0.456 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

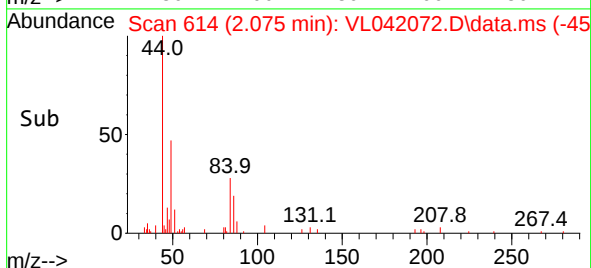
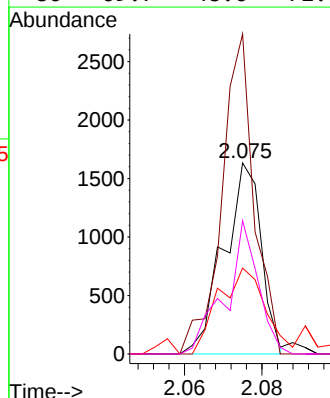
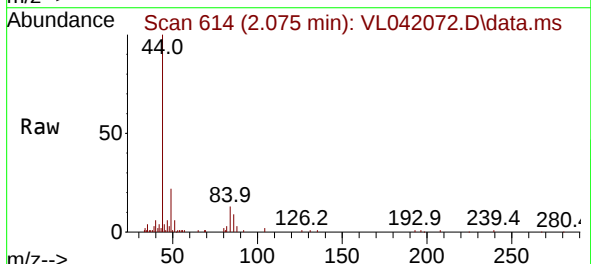
Instrument :
MSVOA_1
ClientSampleId :
SV1DL

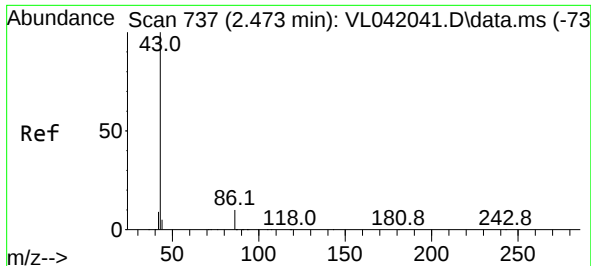
Tgt Ion: 45 Resp: 269411
Ion Ratio Lower Upper
45 100
58 0.1 35.3 52.9#



#20
Methylene Chloride
Concen: 0.189 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.006 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 84 Resp: 1098
Ion Ratio Lower Upper
84 100
49 167.4 130.0 195.0
51 45.0 37.4 56.0
86 69.7 48.6 72.8



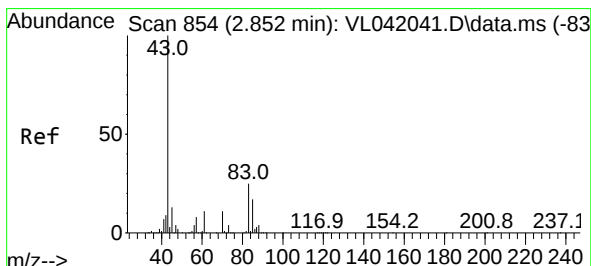
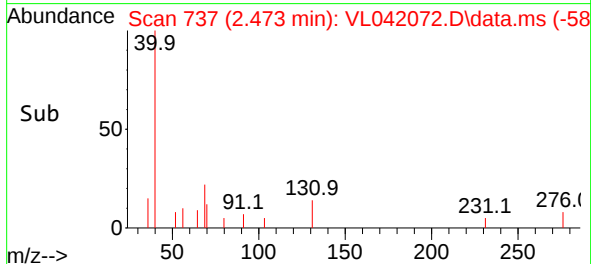
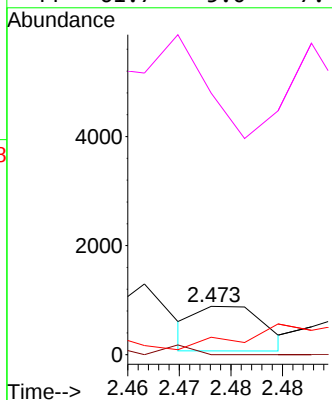
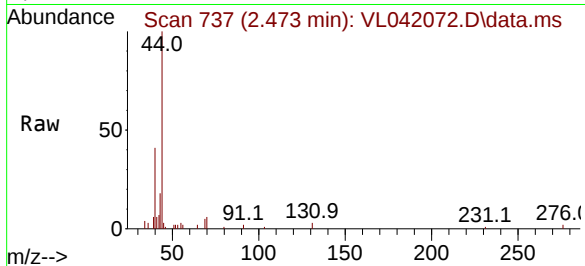


#23
 Vinyl Acetate
 Concen: 0.034 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL042072.D
 Acq: 27 Feb 2025 14:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 43 Resp: 371

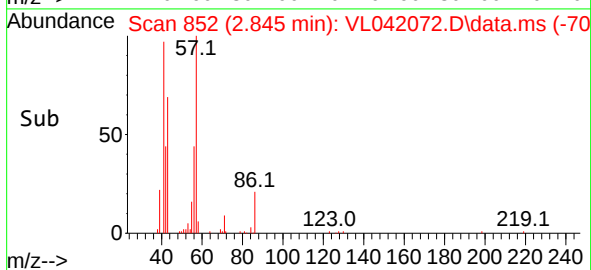
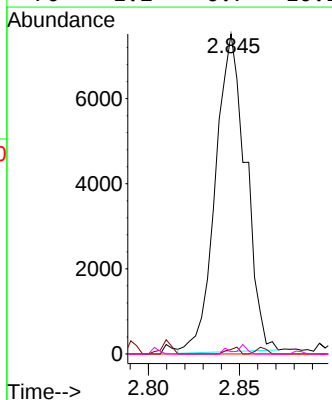
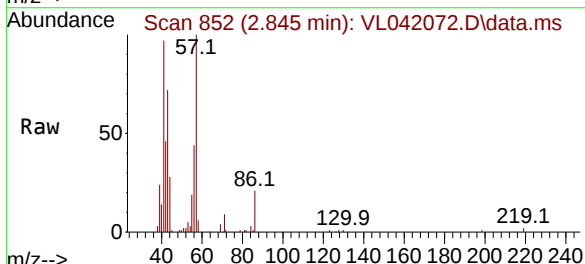
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.0	10.4#
42	43.1	7.6	11.4#
44	61.7	5.0	7.4#

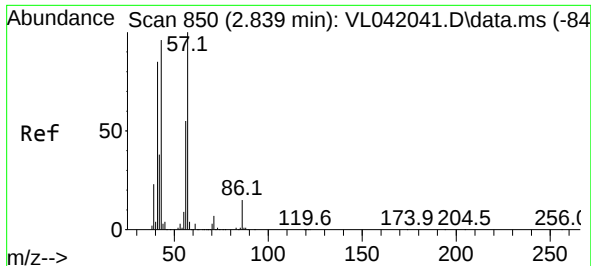


#25
 Ethyl Acetate
 Concen: 0.140 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. -0.007 min
 Lab File: VL042072.D
 Acq: 27 Feb 2025 14:00

Tgt Ion: 43 Resp: 8631

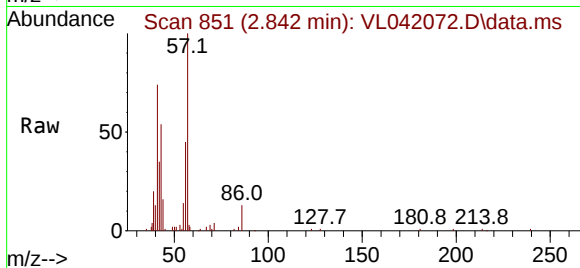
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.1	12.1#
61	0.0	7.2	10.8#
70	1.2	6.7	10.1#



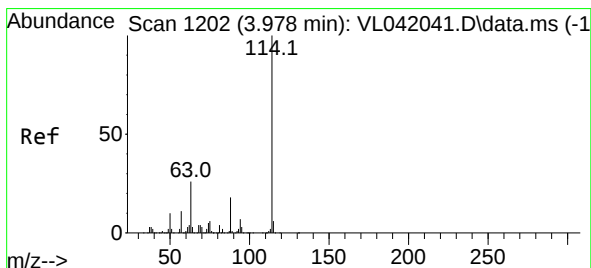
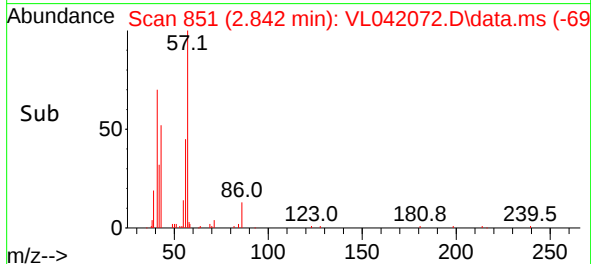
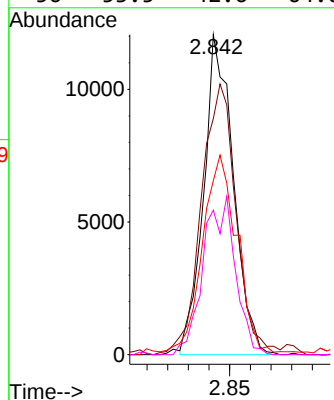


#26
Hexane
Concen: 0.485 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

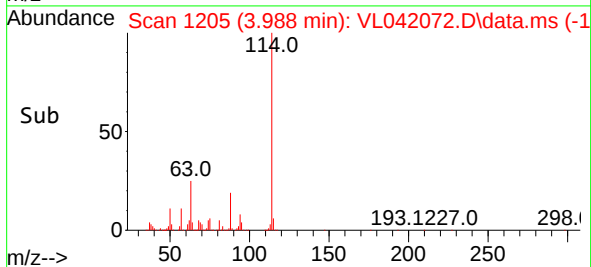
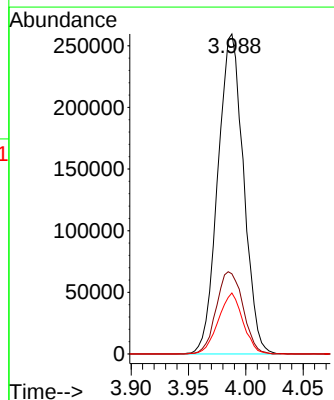
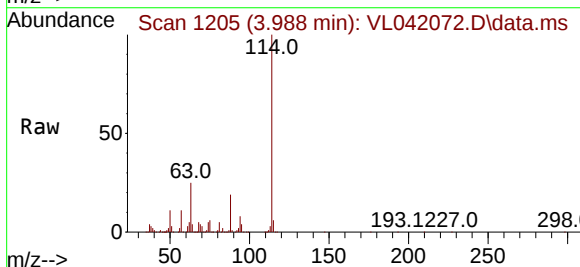


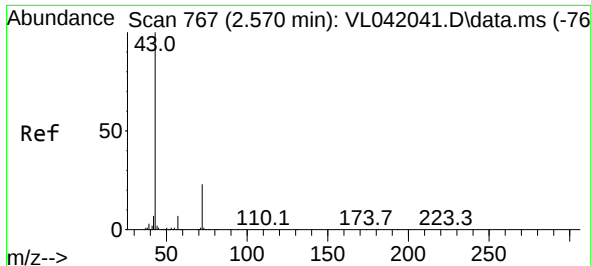
Tgt Ion: 57	Resp: 12058
Ion Ratio	Lower Upper
57	100
41	99.8 70.6 106.0
43	75.9 199.4 299.0#
56	53.5 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.988 min Scan# 1205
Delta R.T. 0.010 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 114	Resp: 404465
Ion Ratio	Lower Upper
114	100
63	26.8 20.1 30.1
88	18.3 14.3 21.5

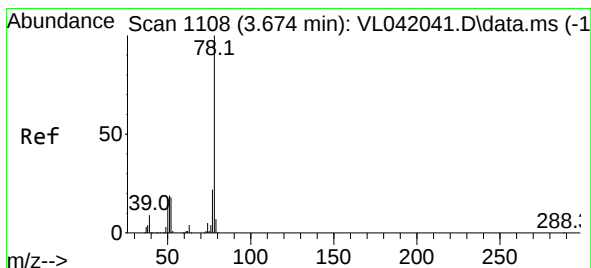
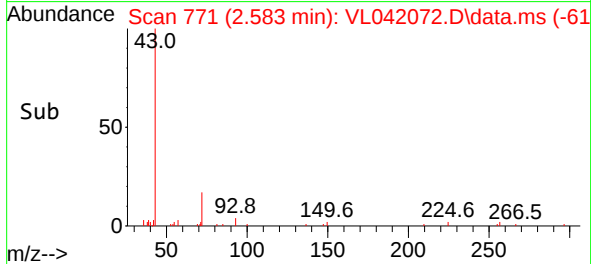
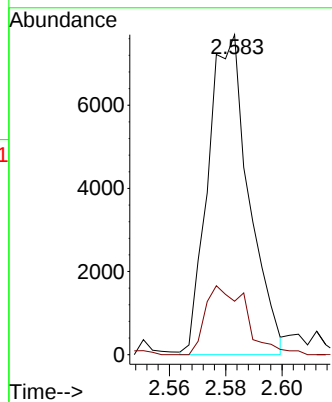
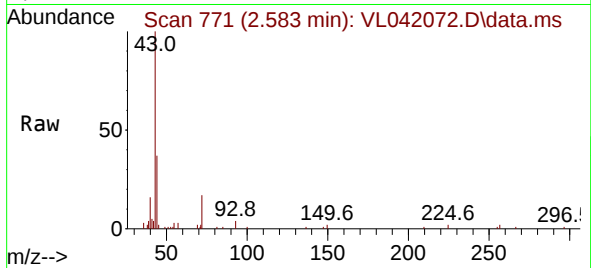




#34
2-Butanone
Concen: 0.245 ppbv
RT: 2.583 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

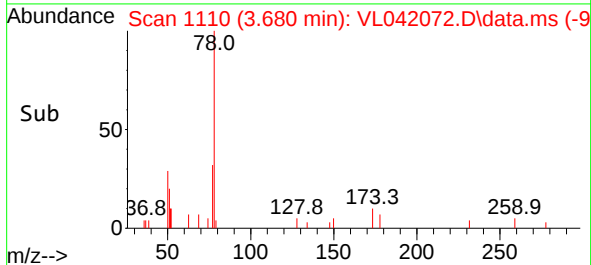
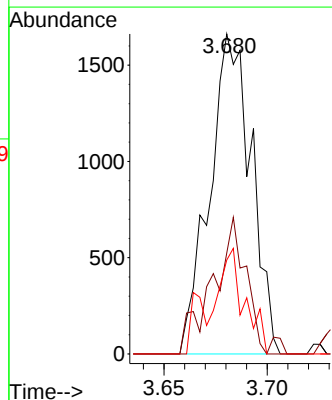
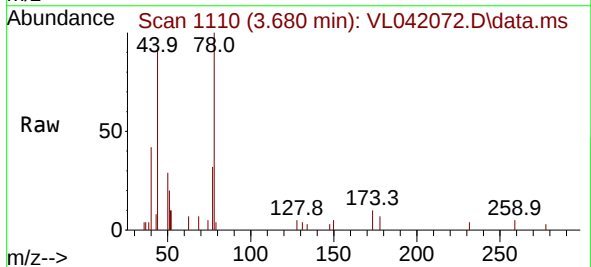
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

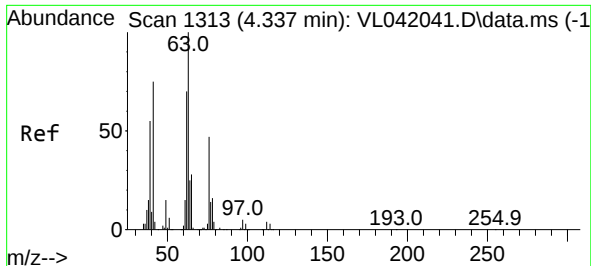
Tgt Ion: 43 Resp: 7735
Ion Ratio Lower Upper
43 100
72 21.8 18.5 27.7



#36
Benzene
Concen: 0.055 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.006 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 78 Resp: 2336
Ion Ratio Lower Upper
78 100
77 31.5 17.7 26.5#
50 29.4 13.9 20.9#





#39

1,2-Dichloropropane

Concen: 6.701 ppbv

RT: 3.985 min Scan# 11

Delta R.T. -0.353 min

Lab File: VL042072.D

Acq: 27 Feb 2025 14:00

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

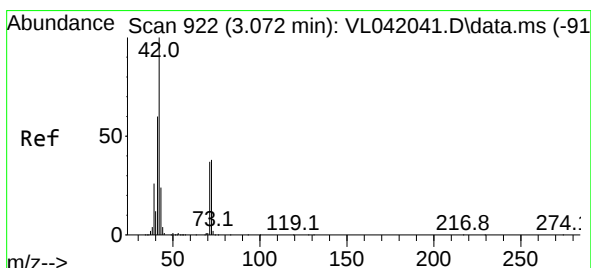
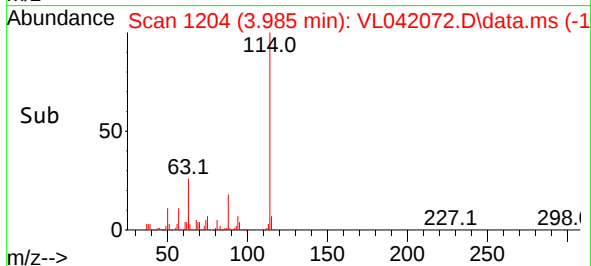
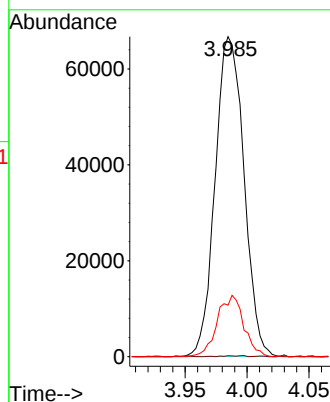
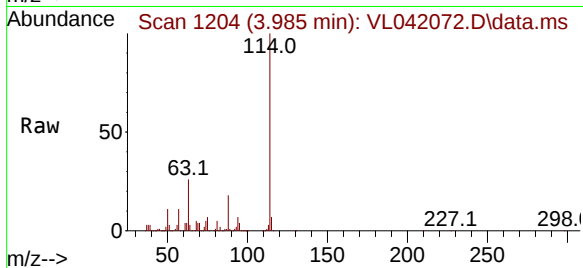
Tgt Ion: 63 Resp: 107692

Ion Ratio Lower Upper

63 100

41 0.2 60.1 90.1#

62 16.1 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.076 ppbv

RT: 3.091 min Scan# 928

Delta R.T. 0.019 min

Lab File: VL042072.D

Acq: 27 Feb 2025 14:00

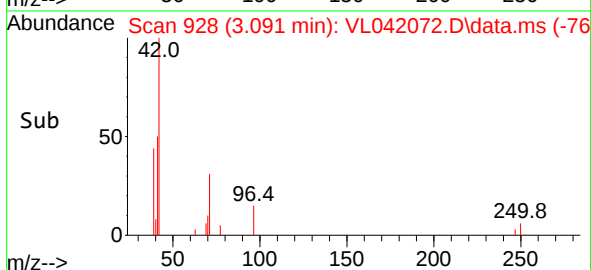
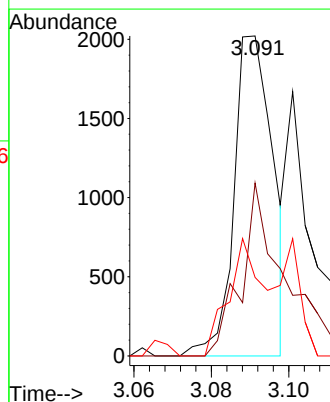
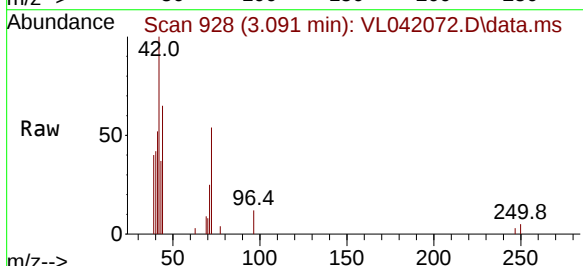
Tgt Ion: 42 Resp: 1424

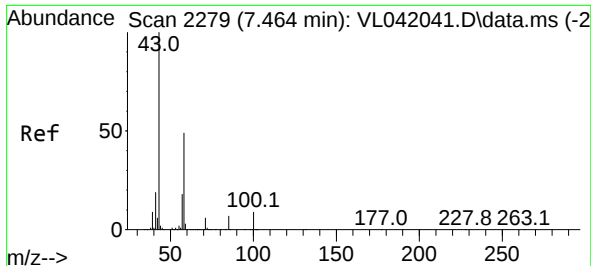
Ion Ratio Lower Upper

42 100

72 59.4 30.2 45.2#

71 57.5 28.2 42.4#

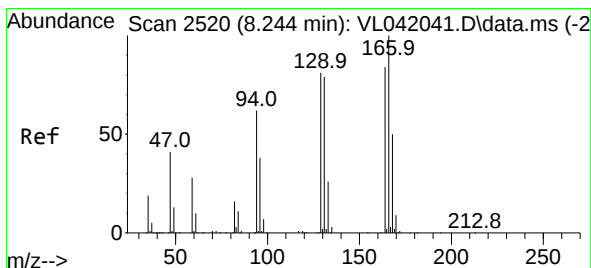
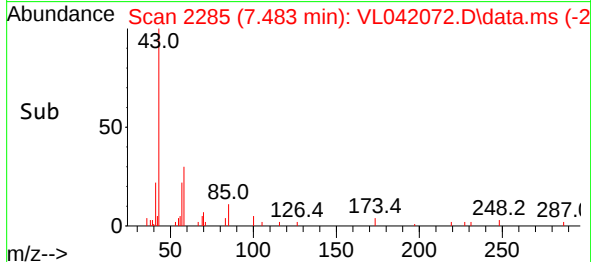
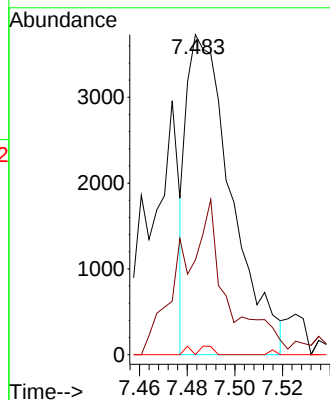
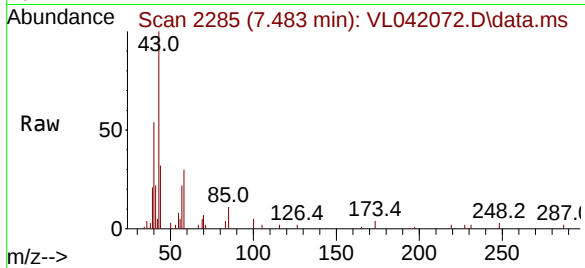




#51
2-Hexanone
Concen: 0.174 ppbv
RT: 7.483 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

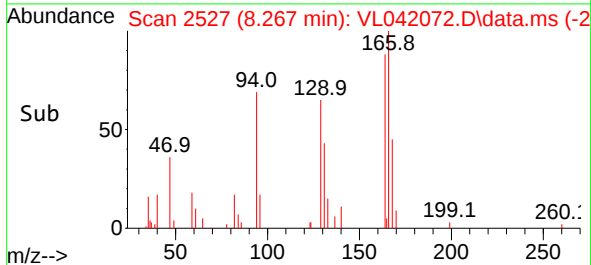
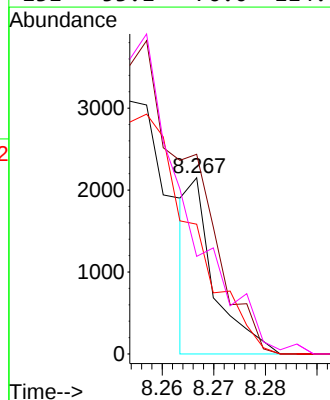
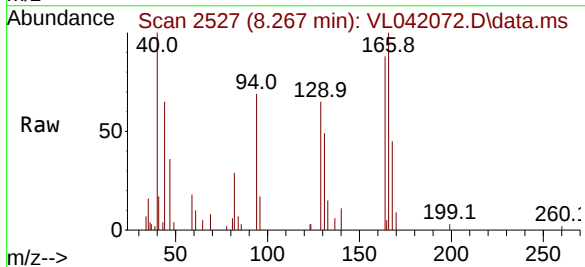
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

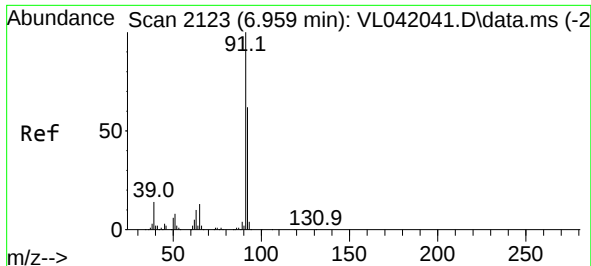
Tgt Ion: 43 Resp: 4881
Ion Ratio Lower Upper
43 100
58 53.9 39.0 58.6
98 1.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.050 ppbv
RT: 8.267 min Scan# 2527
Delta R.T. 0.023 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 164 Resp: 730
Ion Ratio Lower Upper
164 100
166 113.4 95.7 143.5
129 71.3 77.1 115.7#
131 53.1 76.0 114.0#

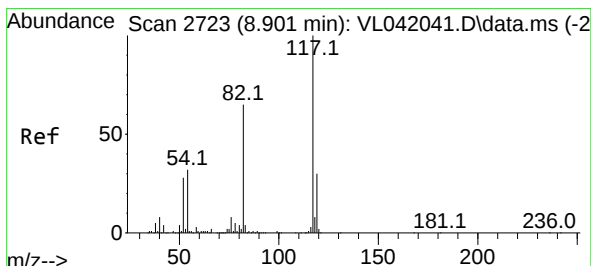
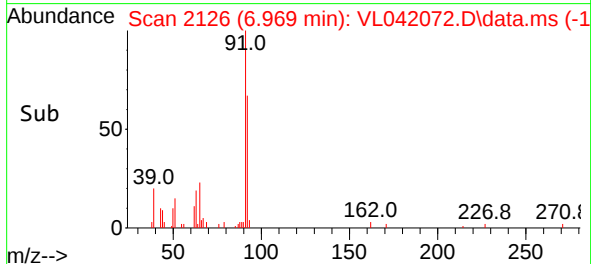
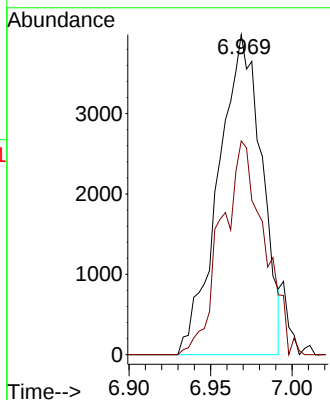
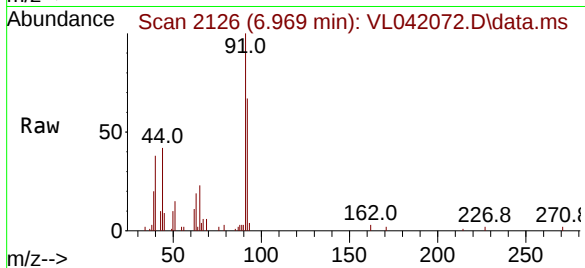




#53
Toluene
Concen: 0.155 ppbv
RT: 6.969 min Scan# 2123
Delta R.T. 0.010 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

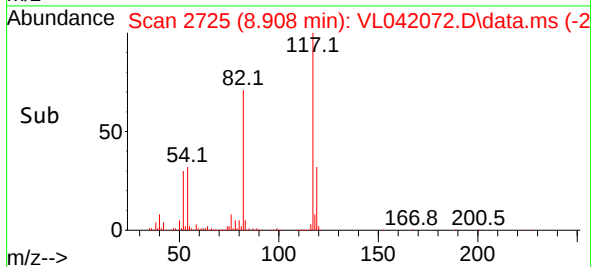
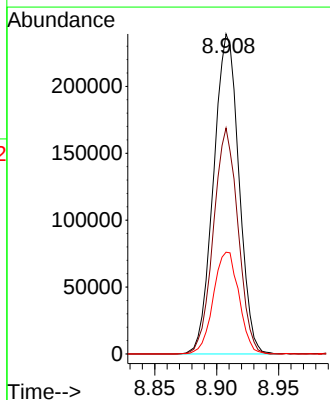
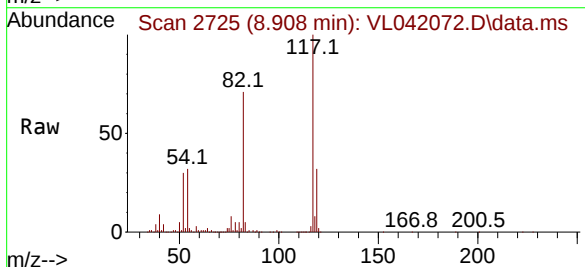
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

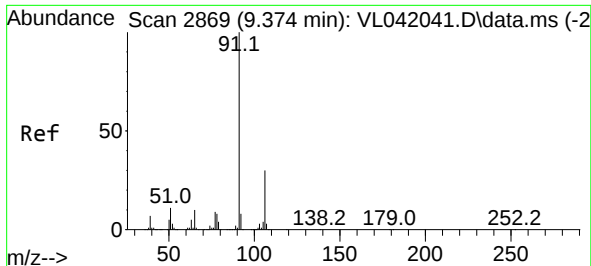
Tgt Ion: 91 Resp: 7353
Ion Ratio Lower Upper
91 100
92 66.0 49.0 73.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 2725
Delta R.T. 0.006 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 117 Resp: 341294
Ion Ratio Lower Upper
117 100
82 68.5 55.0 82.6
119 32.2 25.9 38.9





#58

Ethyl Benzene

Concen: 0.084 ppbv

RT: 9.558 min Scan# 2926

Delta R.T. 0.184 min

Lab File: VL042072.D

Acq: 27 Feb 2025 14:00

Instrument :

MSVOA_L

ClientSampleId :

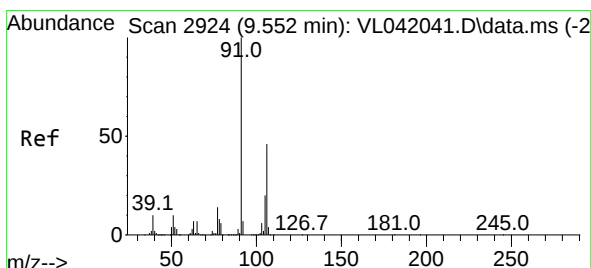
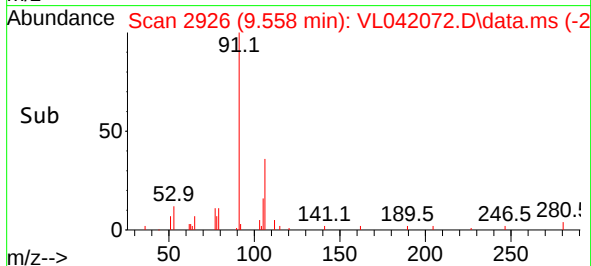
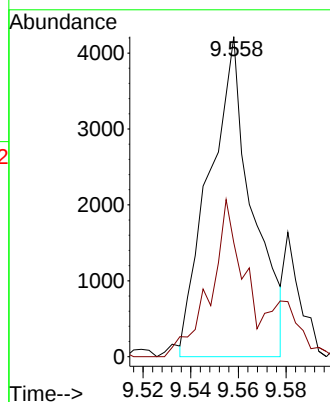
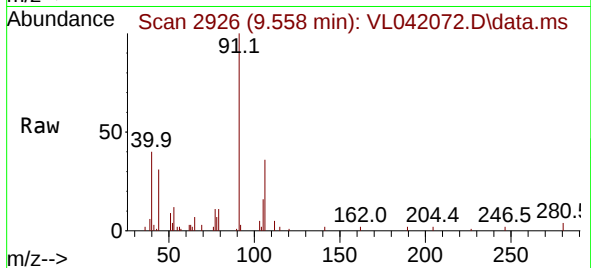
SV1DL

Tgt Ion: 91 Resp: 5285

Ion Ratio Lower Upper

91 100

106 30.3 24.2 36.2



#59

m/p-Xylene

Concen: 0.106 ppbv

RT: 9.558 min Scan# 2926

Delta R.T. 0.006 min

Lab File: VL042072.D

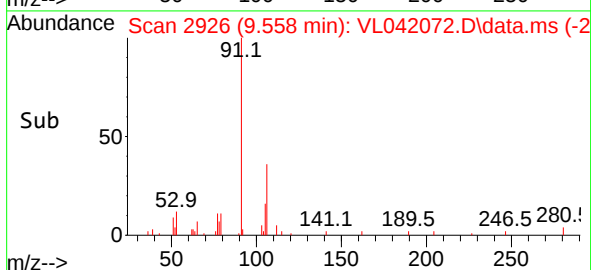
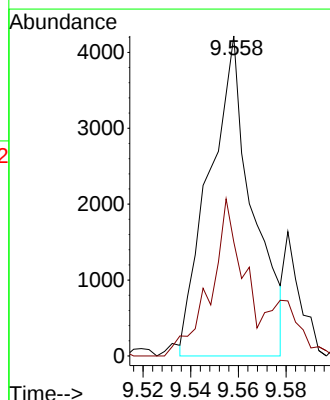
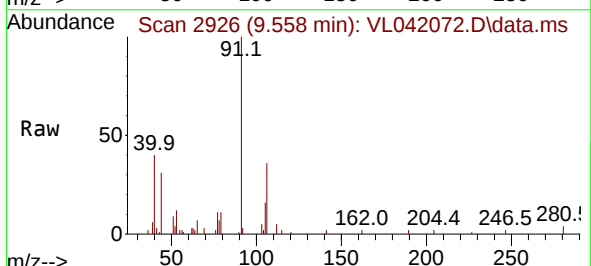
Acq: 27 Feb 2025 14:00

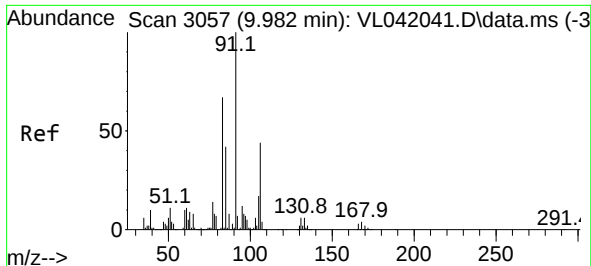
Tgt Ion: 91 Resp: 5285

Ion Ratio Lower Upper

91 100

106 50.2 0.0 0.0#

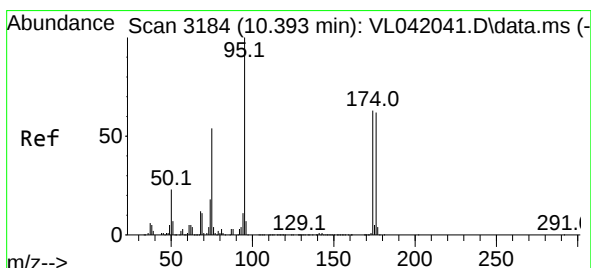
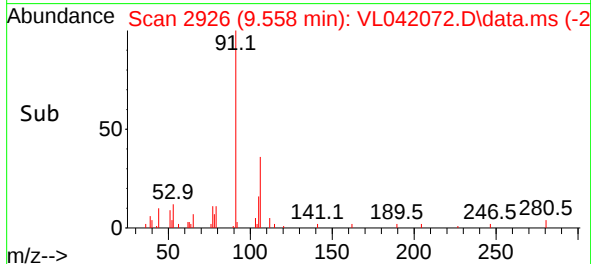
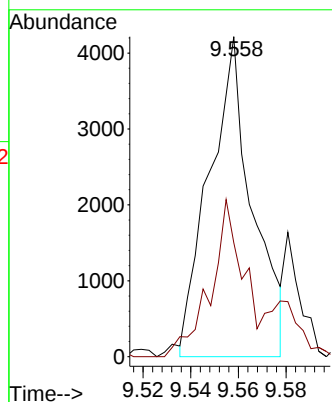
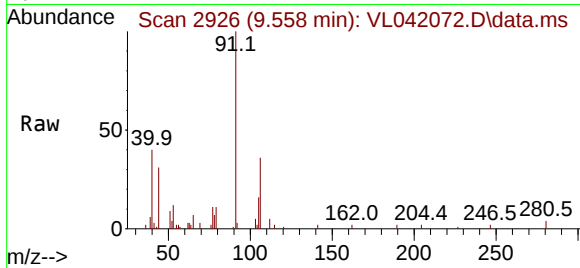




#60
o-Xylene
Concen: 0.105 ppbv
RT: 9.558 min Scan# 2926
Delta R.T. -0.424 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

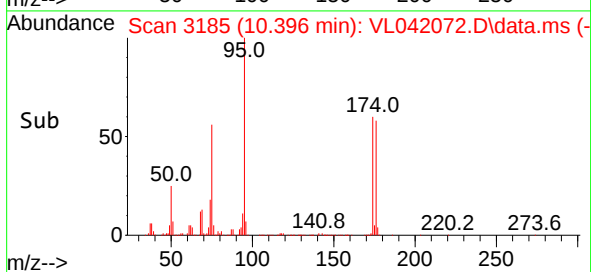
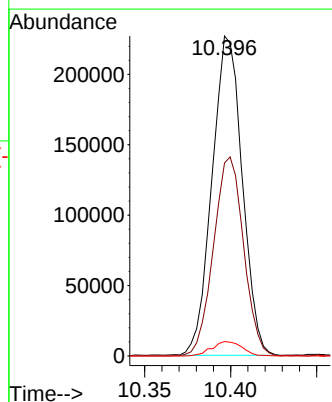
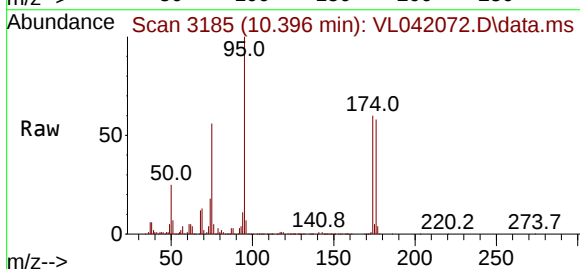
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

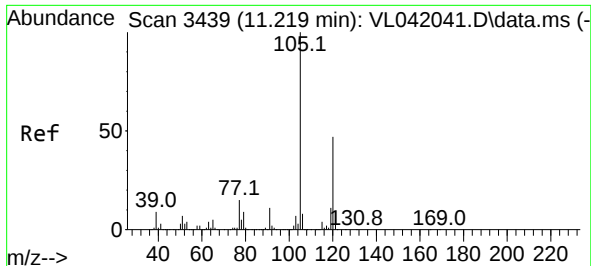
Tgt Ion: 91 Resp: 5285
Ion Ratio Lower Upper
91 100
106 50.2 22.3 66.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.551 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.003 min
Lab File: VL042072.D
Acq: 27 Feb 2025 14:00

Tgt Ion: 95 Resp: 277042
Ion Ratio Lower Upper
95 100
174 62.2 51.8 77.6
175 4.6 3.9 5.9

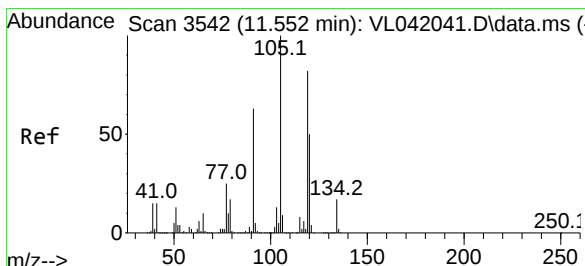
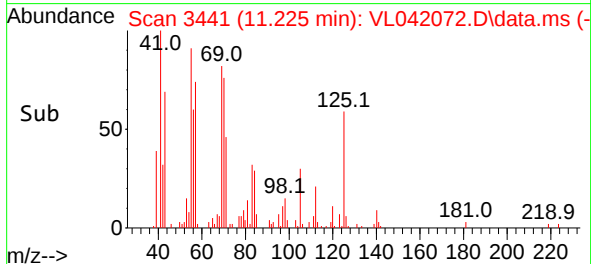
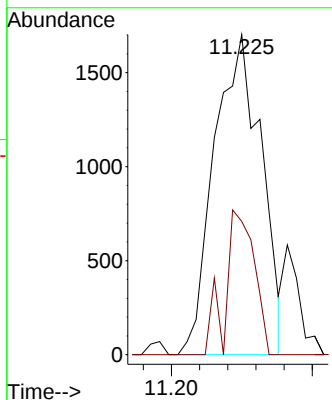
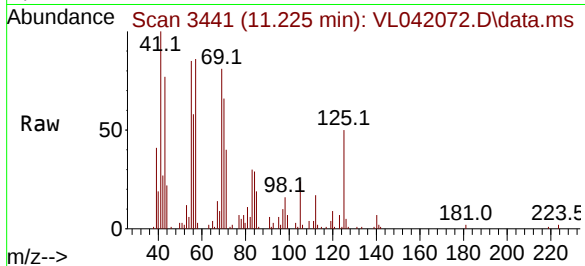




#73
 1,3,5-Trimethylbenzene
 Concen: 0.037 ppbv
 RT: 11.225 min Scan# 3439
 Delta R.T. 0.006 min
 Lab File: VL042072.D
 Acq: 27 Feb 2025 14:00

Instrument :
 MSVOA_1
 ClientSampleId :
 SV1DL

Tgt Ion:105 Resp: 1968
 Ion Ratio Lower Upper
 105 100
 120 41.7 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.065 ppbv
 RT: 11.555 min Scan# 3543
 Delta R.T. 0.003 min
 Lab File: VL042072.D
 Acq: 27 Feb 2025 14:00

Tgt Ion:105 Resp: 3908
 Ion Ratio Lower Upper
 105 100
 120 22.7 40.2 60.2#
 91 9.6 51.4 77.2#
 77 14.9 20.1 30.1#

