

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042373.D
 Acq On : 17 Apr 2025 23:57
 Operator : SY/MD
 Sample : Q1726-07DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL

Quant Time: Apr 18 02:47:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	107602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	303479	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	266154	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	220060	10.062	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

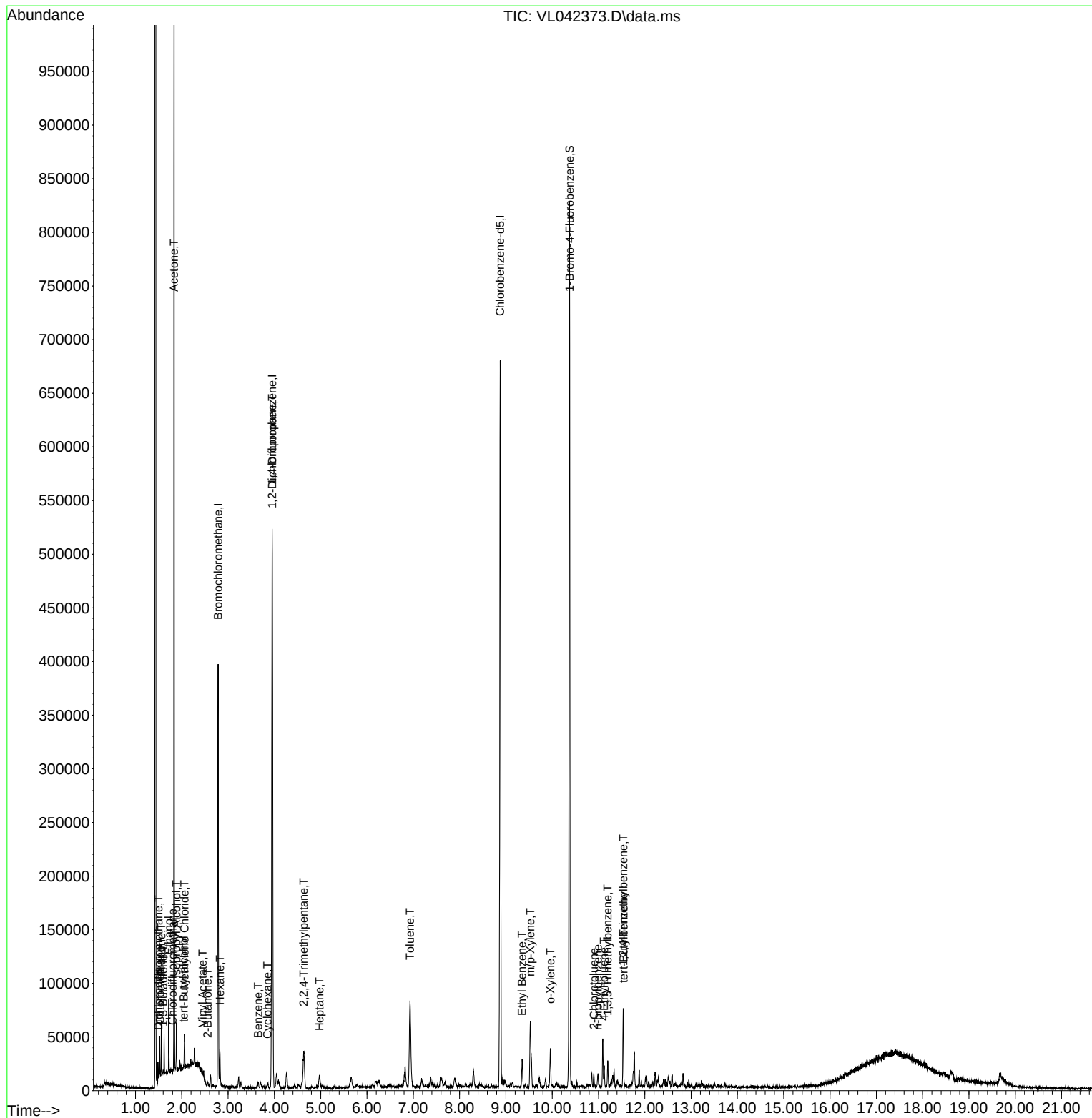
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	929	0.049	ppbv #	82
3) Chlorodifluoromethane	1.803	51	873	0.048	ppbv	93
4) Chloromethane	1.531	50	570	0.076	ppbv #	84
9) Propene	1.557	41	5479	0.665	ppbv	92
10) Heptane	4.972	43	2011	0.087	ppbv #	1
13) Ethanol	1.719	45	24762	18.897	ppbv	74
15) Acetone	1.832	43	515571	29.269	ppbv	99
16) 1,3-Butadiene	1.599	39	449	0.053	ppbv #	1
17) tert-Butyl alcohol	2.043	59	992	0.045	ppbv #	1
19) Isopropyl Alcohol	1.884	45	18557	1.896	ppbv #	1
20) Methylene Chloride	2.059	84	4971	0.721	ppbv #	88
23) Vinyl Acetate	2.451	43	991	0.139	ppbv #	83
26) Hexane	2.823	57	8236	0.469	ppbv #	35
30) Cyclohexane	3.852	84	863	0.061	ppbv #	19
34) 2-Butanone	2.557	43	2252	0.094	ppbv	97
36) Benzene	3.648	78	1213	0.037	ppbv #	70
39) 1,2-Dichloropropane	3.956	63	80554	6.604	ppbv #	24
44) 2,2,4-Trimethylpentane	4.632	57	16572	0.293	ppbv #	30
53) Toluene	6.927	91	53637	1.365	ppbv	97
58) Ethyl Benzene	9.348	91	13474	0.256	ppbv	99
59) m/p-Xylene	9.529	91	30753	0.724	ppbv #	83
60) o-Xylene	9.960	91	14506	0.339	ppbv	98
64) n-propylbenzene	10.986	120	1406	0.089	ppbv	96
65) tert-Butylbenzene	11.539	119	3065	0.053	ppbv #	64
71) 2-Chlorotoluene	10.902	91	3618	0.073	ppbv	93
72) 4-Ethyltoluene	11.122	105	6684	0.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	8296	0.180	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	25240	0.468	ppbv #	62

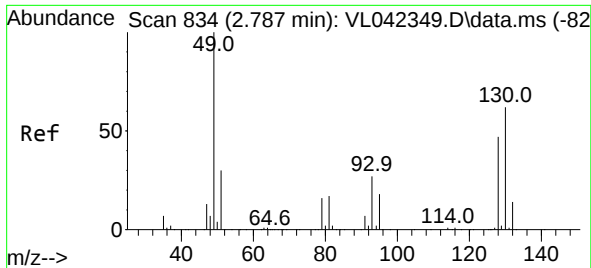
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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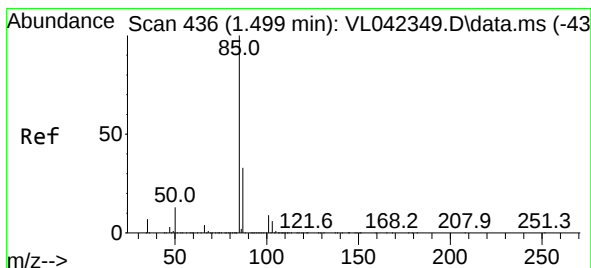
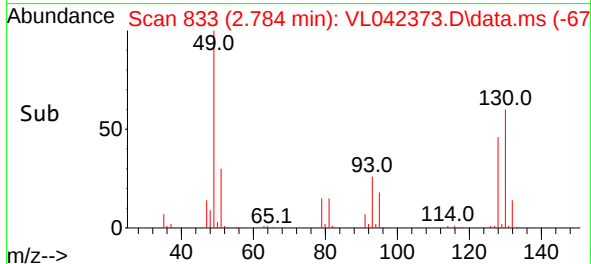
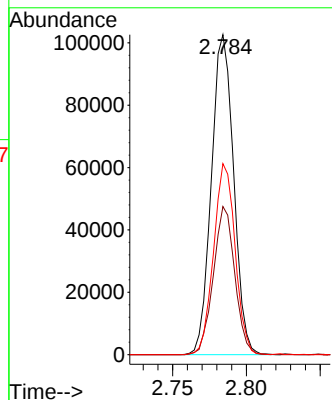
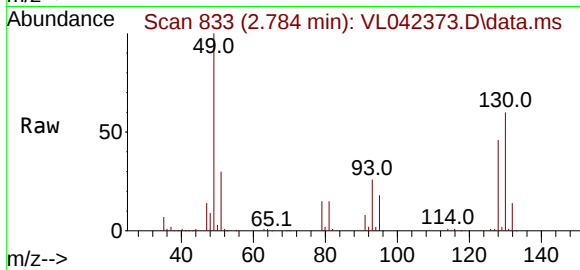




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

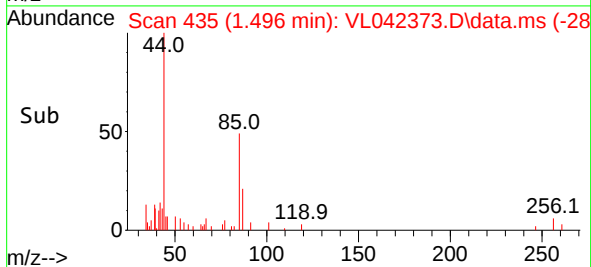
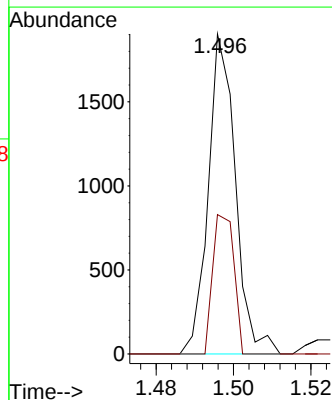
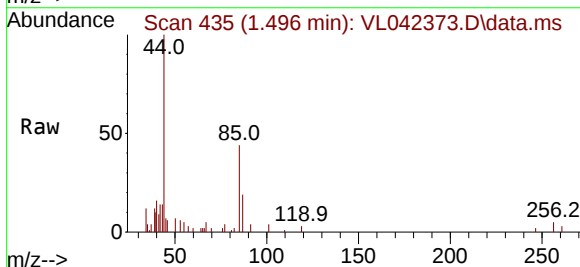
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

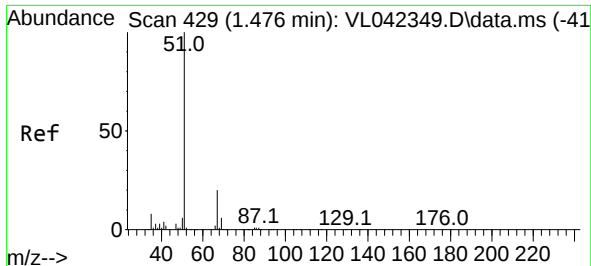
Tgt Ion: 49 Resp: 107602
Ion Ratio Lower Upper
49 100
128 44.6 22.8 68.4
130 58.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 85 Resp: 929
Ion Ratio Lower Upper
85 100
87 43.5 26.6 39.8#

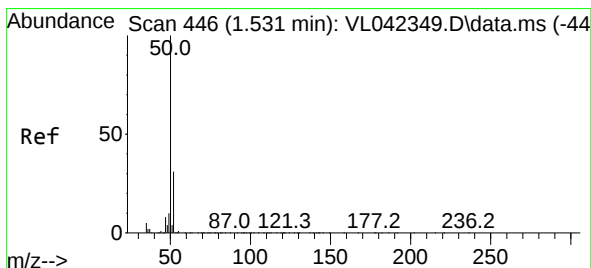
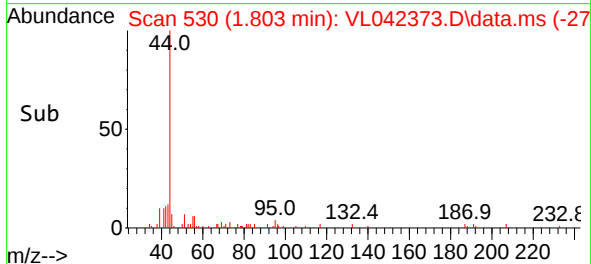
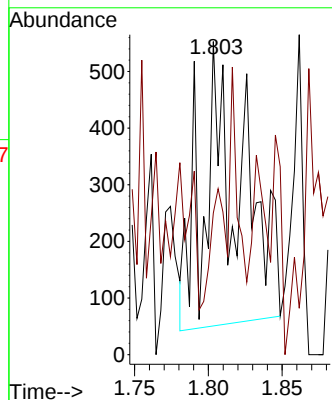
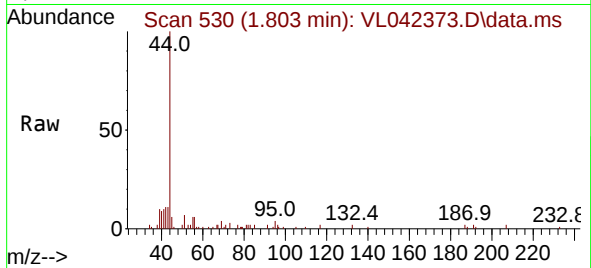




#3
Chlorodifluoromethane
Concen: 0.048 ppbv
RT: 1.803 min Scan# 51
Delta R.T. 0.327 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

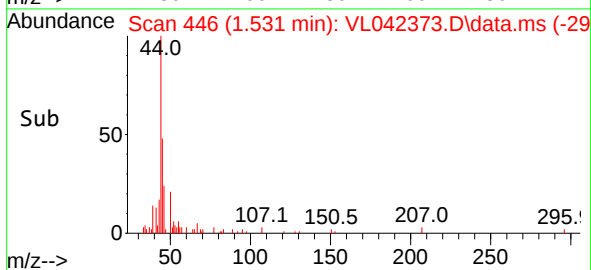
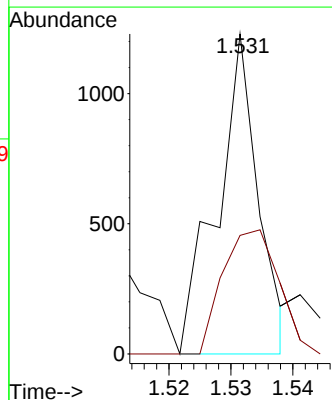
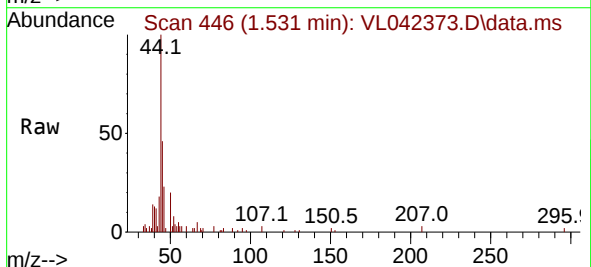
Instrument :
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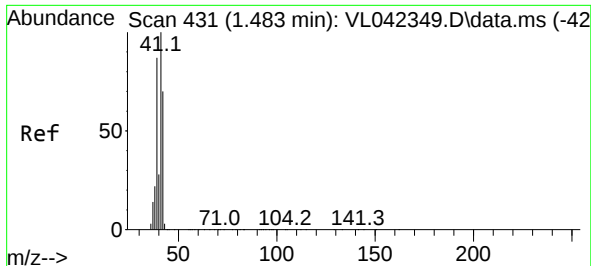
Tgt Ion: 51 Resp: 873
Ion Ratio Lower Upper
51 100
67 23.7 16.2 24.4



#4
Chloromethane
Concen: 0.076 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 50 Resp: 570
Ion Ratio Lower Upper
50 100
52 39.5 24.7 37.1#





#9

Propene

Concen: 0.665 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

Instrument :

MSVOA_L

ClientSampleId :

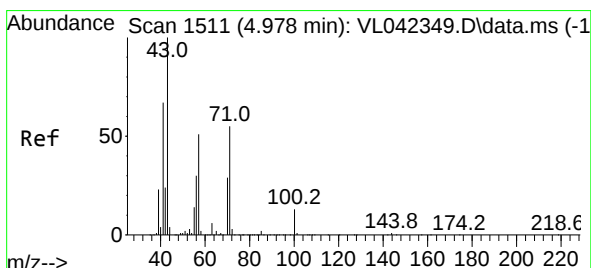
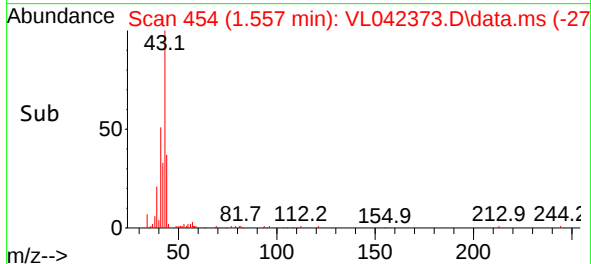
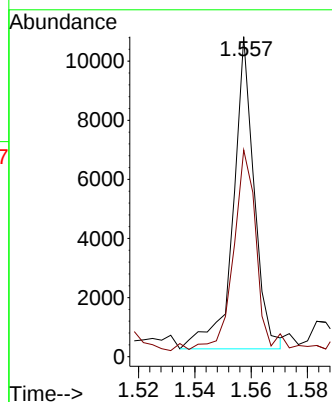
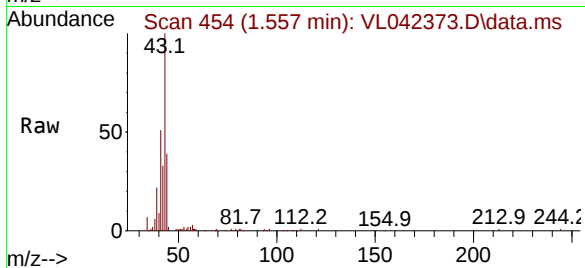
IA-B2-4-03312025DL

Tgt Ion: 41 Resp: 5479

Ion Ratio Lower Upper

41 100

42 63.9 56.2 84.4



#10

Heptane

Concen: 0.087 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VL042373.D

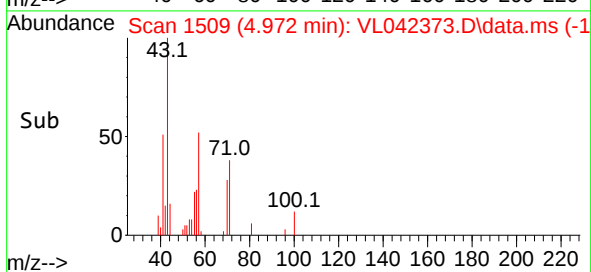
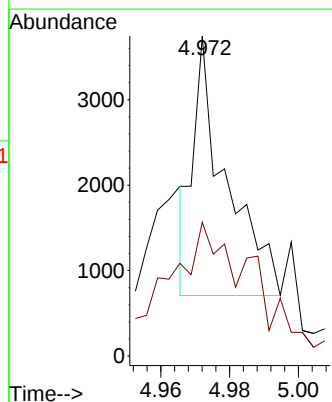
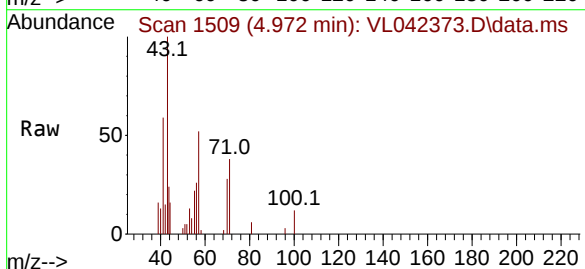
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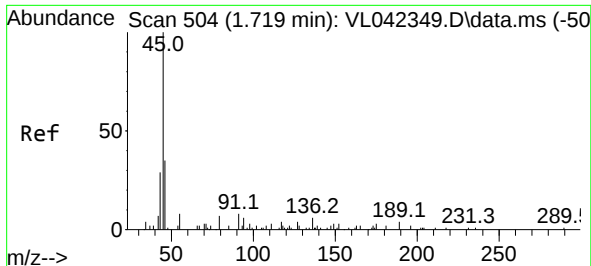
Tgt Ion: 43 Resp: 2011

Ion Ratio Lower Upper

43 100

57 148.6 39.9 59.9#

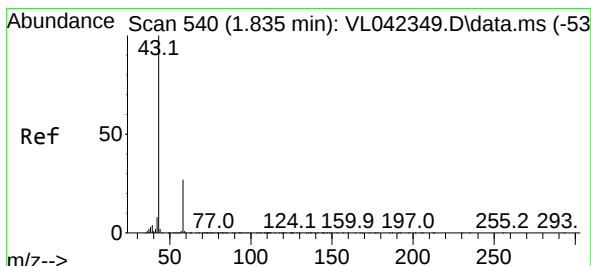
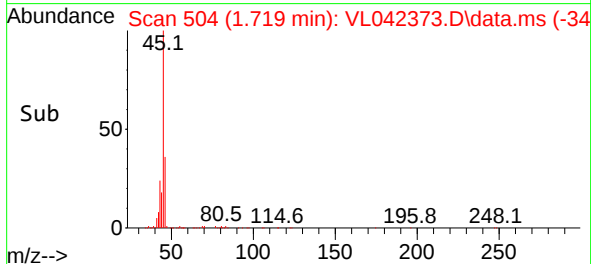
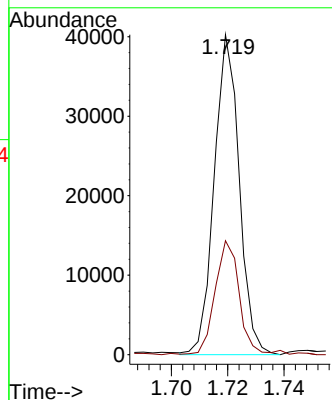
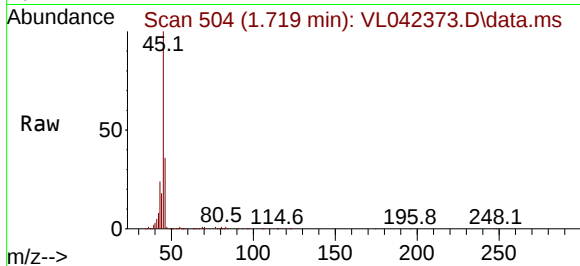




#13
 Ethanol
 Concen: 18.897 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

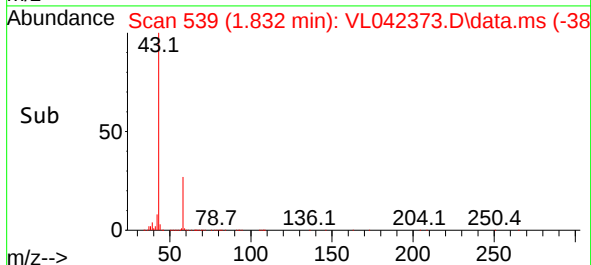
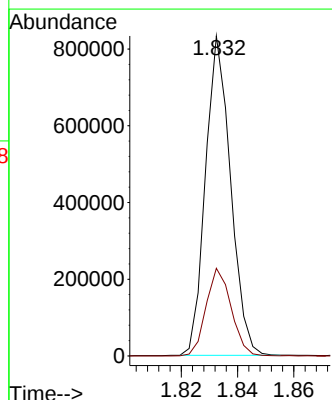
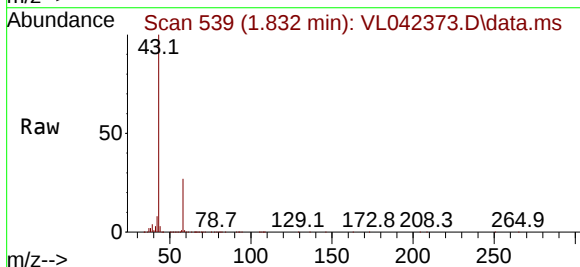
Instrument :
 MSVOA_L
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 IA-B2-4-03312025DL

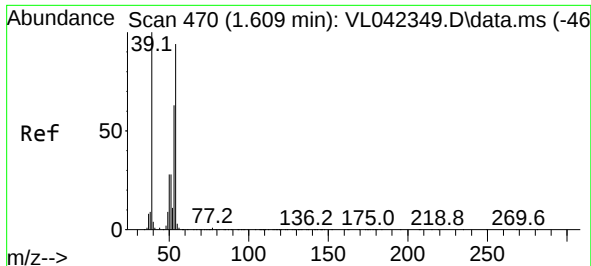
Tgt Ion: 45 Resp: 24762
 Ion Ratio Lower Upper
 45 100
 46 35.9 21.9 87.7



#15
 Acetone
 Concen: 29.269 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. -0.003 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

Tgt Ion: 43 Resp: 515571
 Ion Ratio Lower Upper
 43 100
 58 27.6 22.4 33.6

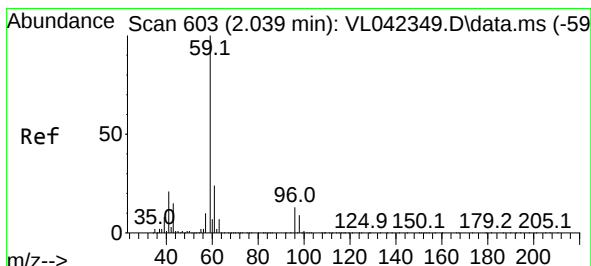
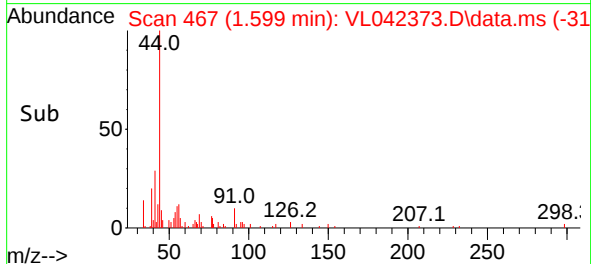
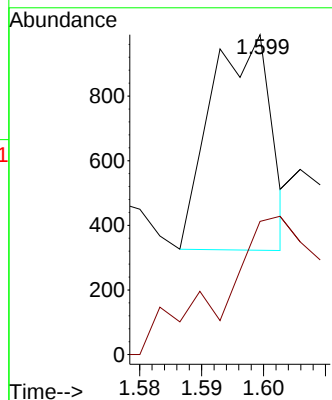
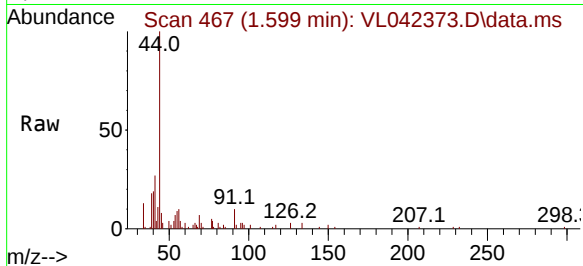




#16
1,3-Butadiene
Concen: 0.053 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.009 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

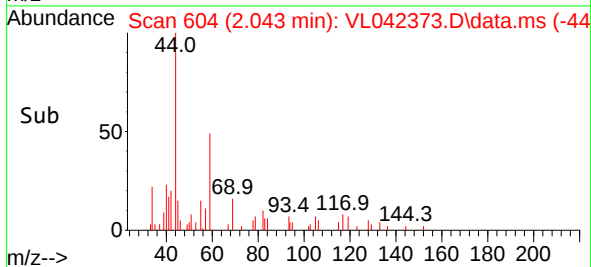
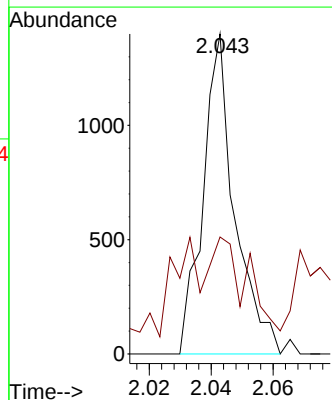
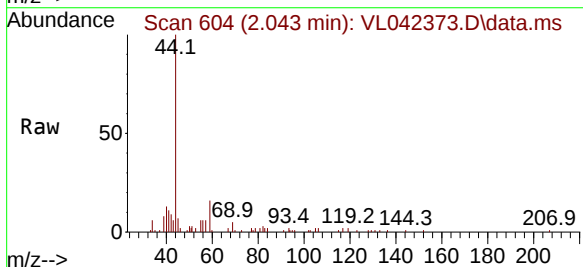
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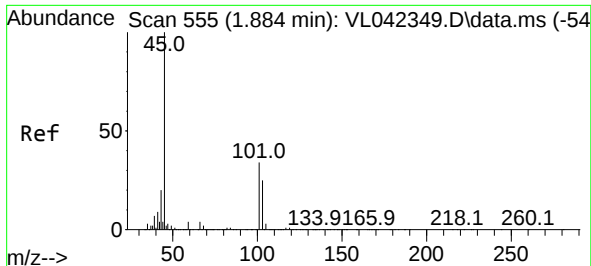
Tgt Ion: 39 Resp: 449
Ion Ratio Lower Upper
39 100
54 223.2 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.045 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 59 Resp: 992
Ion Ratio Lower Upper
59 100
57 138.0 8.7 13.1#

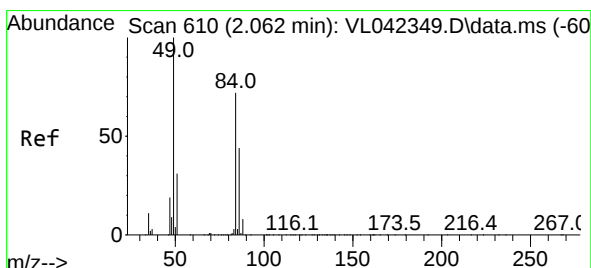
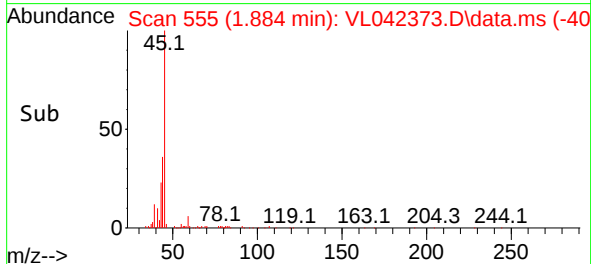
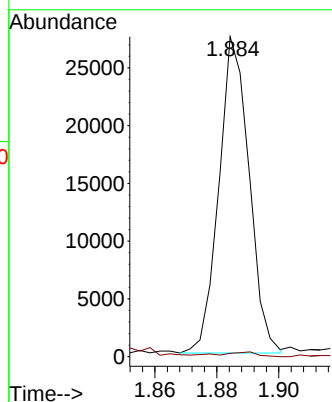
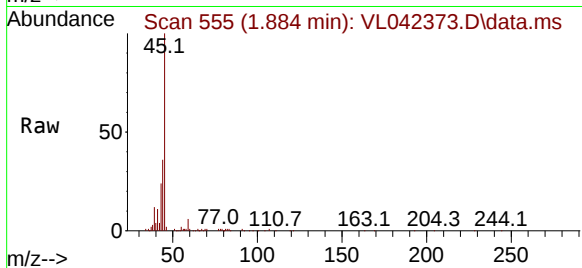




#19
Isopropyl Alcohol
Concen: 1.896 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

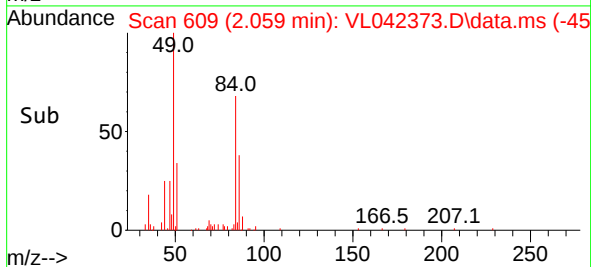
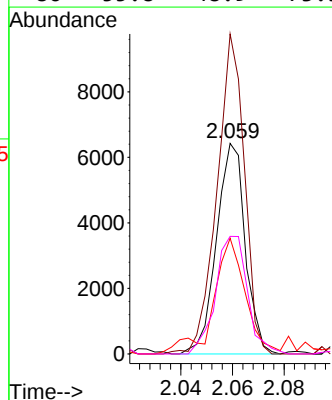
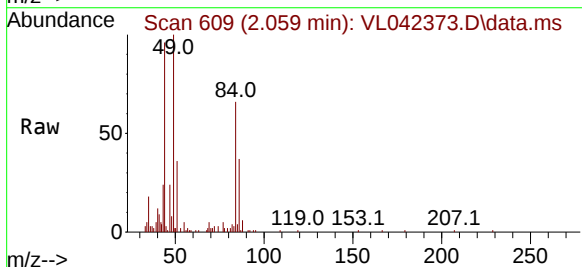
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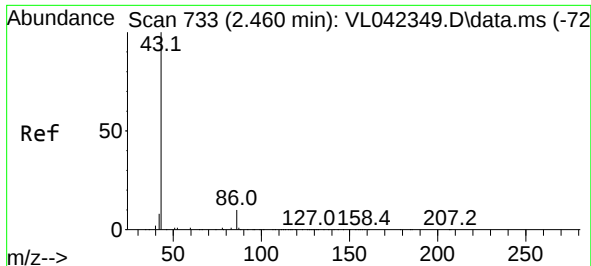
Tgt Ion: 45 Resp: 18557
Ion Ratio Lower Upper
45 100
58 767.1 34.5 51.7#



#20
Methylene Chloride
Concen: 0.721 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 84 Resp: 4971
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 53.3 35.1 52.7#
86 55.8 48.9 73.3

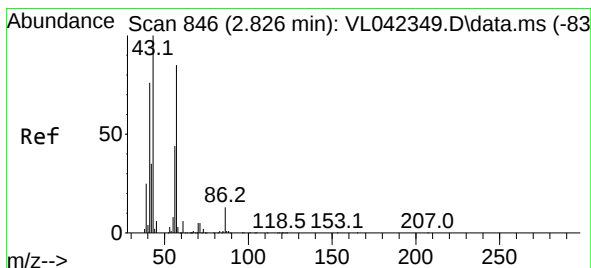
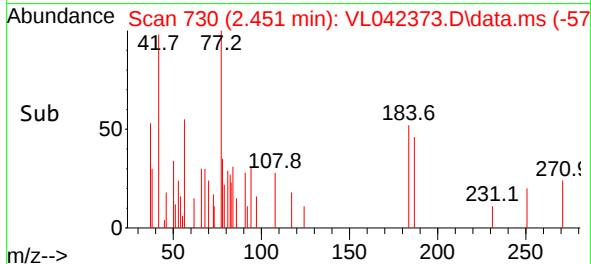
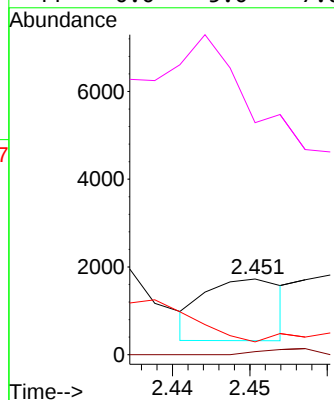
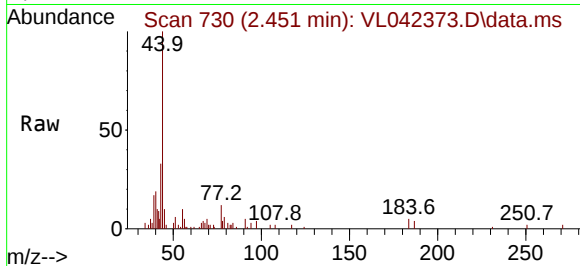




#23
 Vinyl Acetate
 Concen: 0.139 ppbv
 RT: 2.451 min Scan# 71
 Delta R.T. -0.009 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

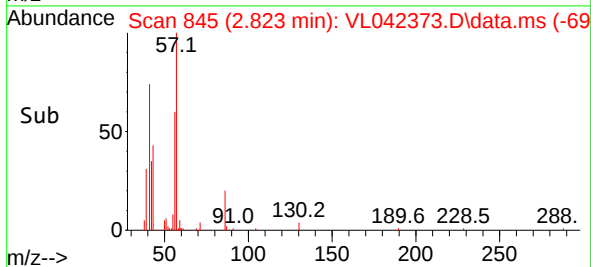
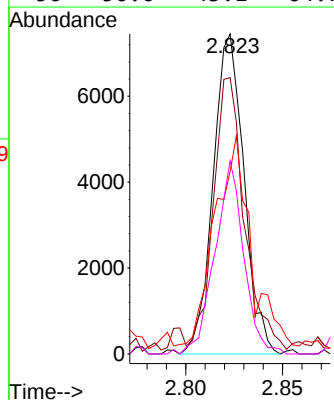
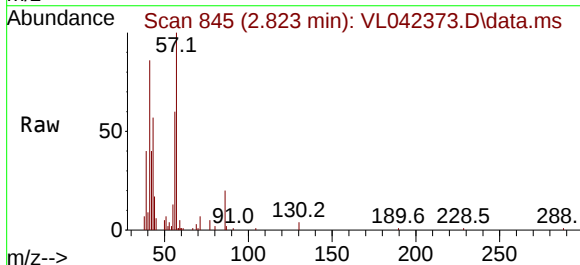
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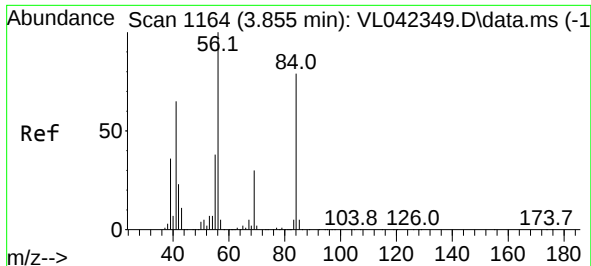
Tgt Ion:	43	Resp:	991
Ion	Ratio	Lower	Upper
43	100		
86	9.6	6.5	9.7
42	0.0	7.8	11.8#
44	0.0	5.0	7.6#



#26
 Hexane
 Concen: 0.469 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.003 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

Tgt Ion:	57	Resp:	8236
Ion	Ratio	Lower	Upper
57	100		
41	86.1	77.9	116.9
43	86.9	208.4	312.6#
56	56.6	43.1	64.7

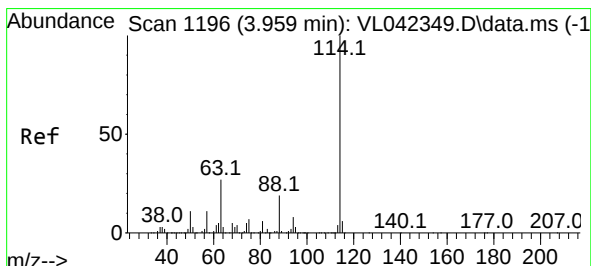
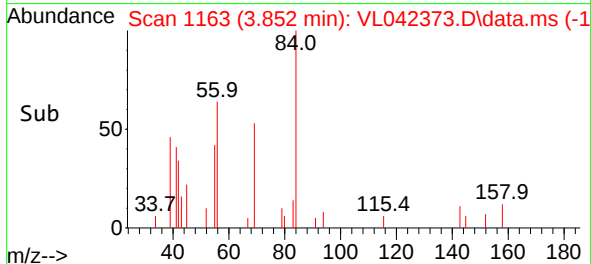
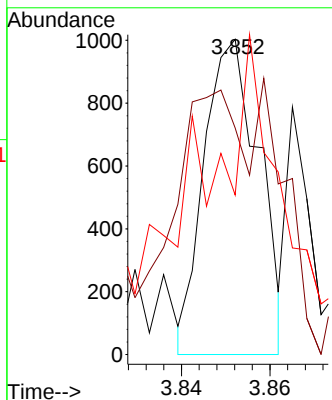
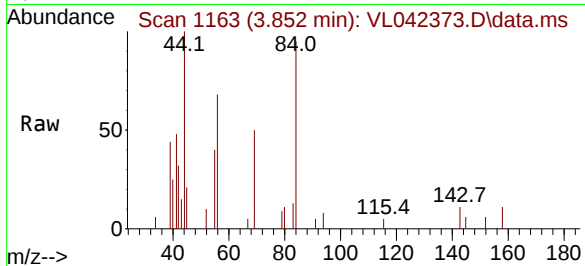




#30
Cyclohexane
Concen: 0.061 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

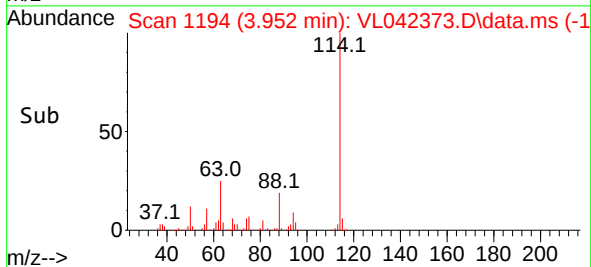
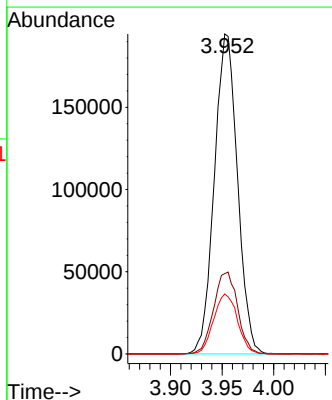
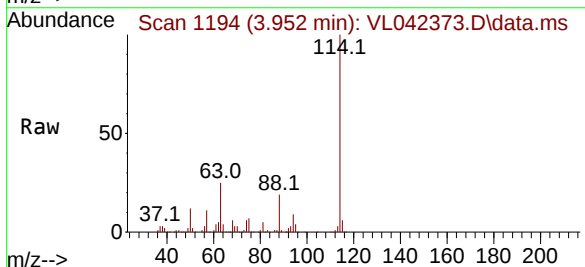
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

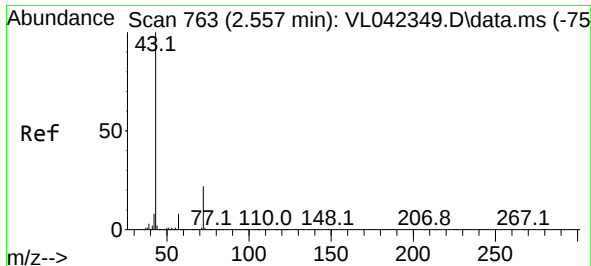
Tgt Ion: 84 Resp: 863
Ion Ratio Lower Upper
84 100
56 184.8 101.0 151.4#
41 198.4 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 114 Resp: 303479
Ion Ratio Lower Upper
114 100
63 26.5 21.8 32.6
88 19.4 15.5 23.3

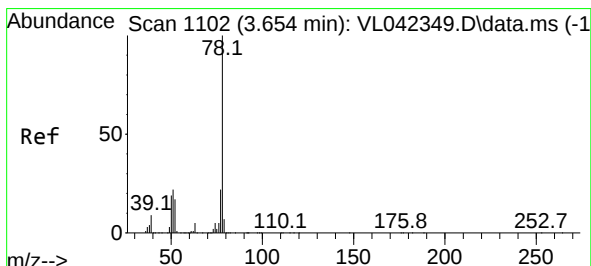
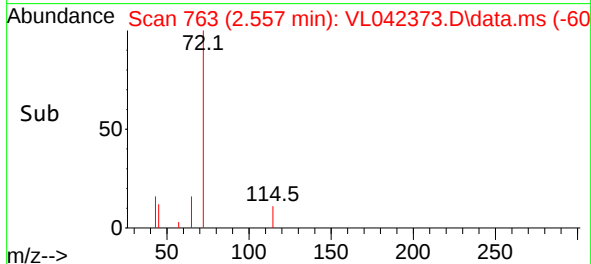
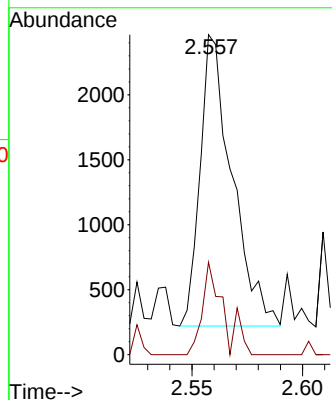
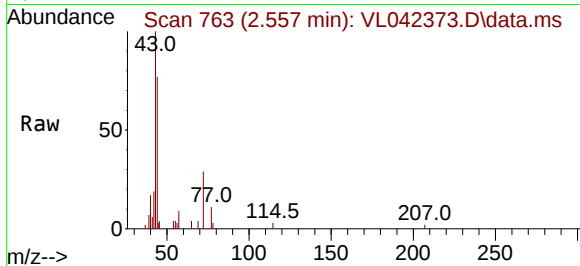




#34
2-Butanone
Concen: 0.094 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

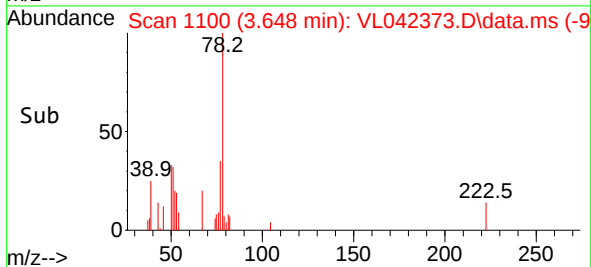
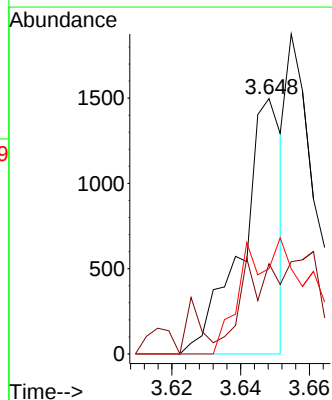
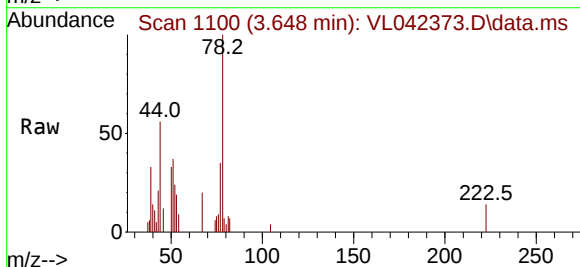
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

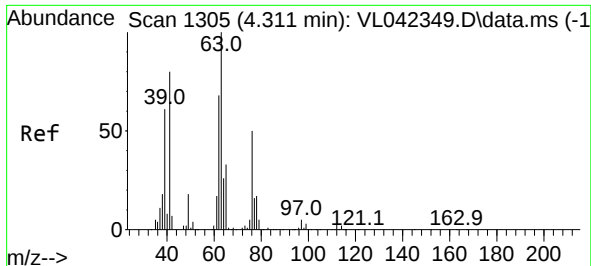
Tgt Ion: 43 Resp: 2252
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2



#36
Benzene
Concen: 0.037 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 78 Resp: 1213
Ion Ratio Lower Upper
78 100
77 35.3 17.4 26.0#
50 33.4 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 6.604 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL

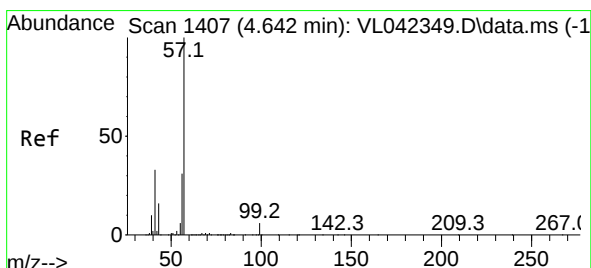
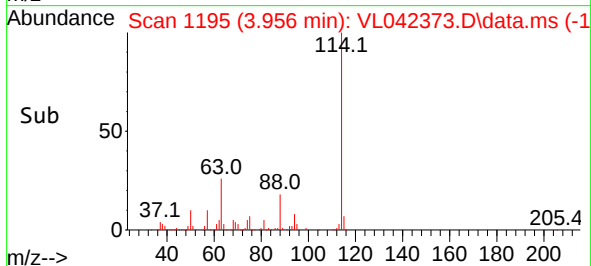
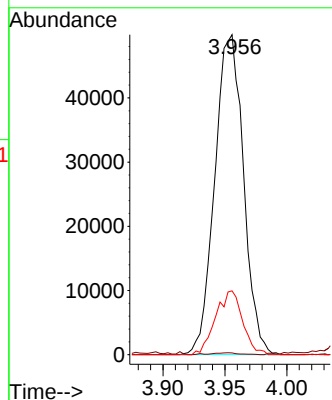
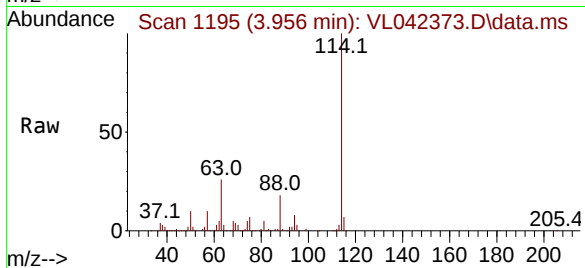
Tgt Ion: 63 Resp: 80554

Ion Ratio Lower Upper

63 100

41 0.3 64.2 96.2#

62 19.9 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.293 ppbv

RT: 4.632 min Scan# 1404

Delta R.T. -0.009 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

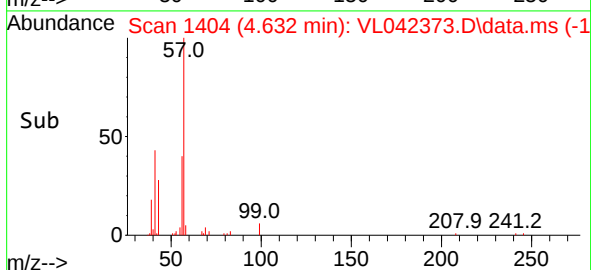
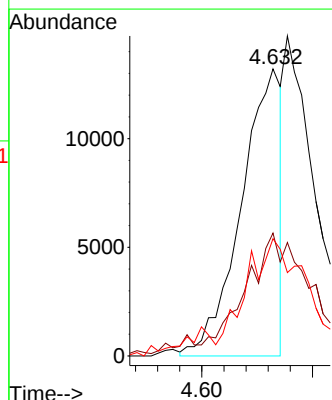
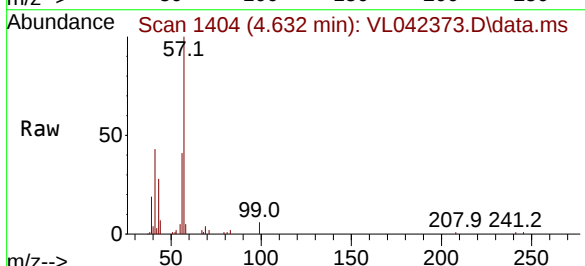
Tgt Ion: 57 Resp: 16572

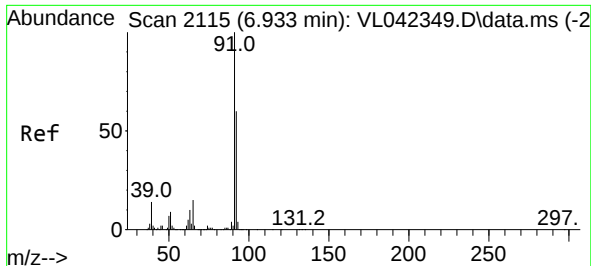
Ion Ratio Lower Upper

57 100

41 74.0 27.2 40.8#

56 71.3 25.7 38.5#

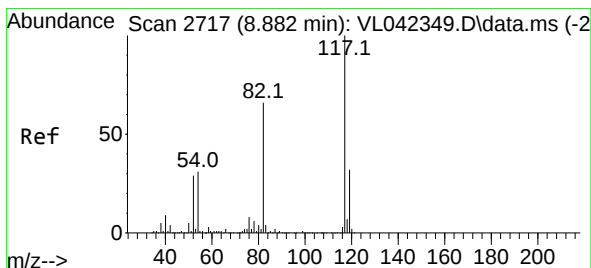
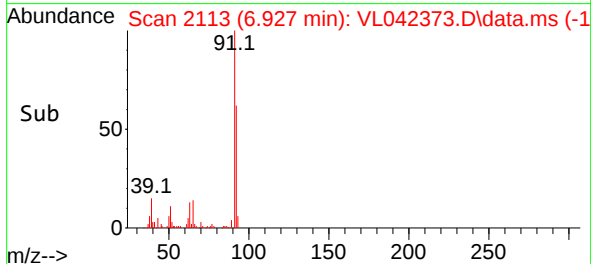
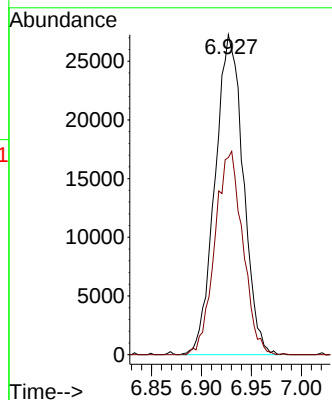
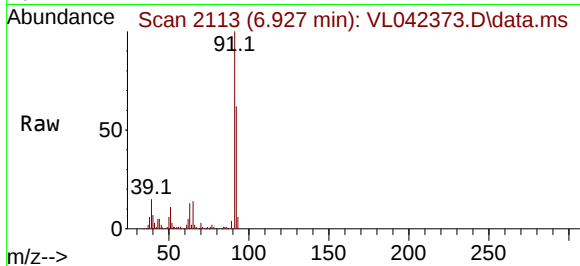




#53
Toluene
Concen: 1.365 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

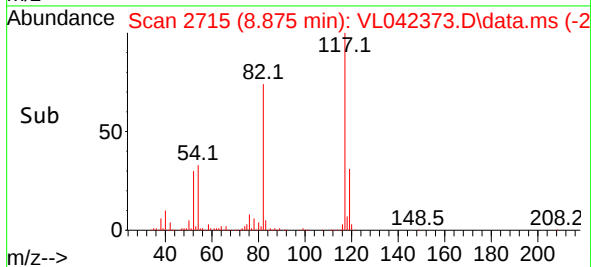
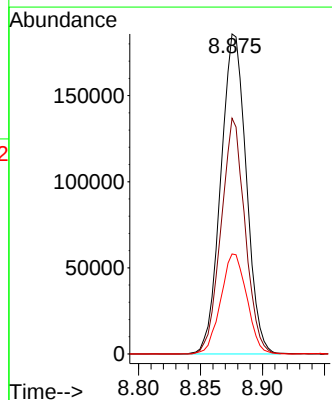
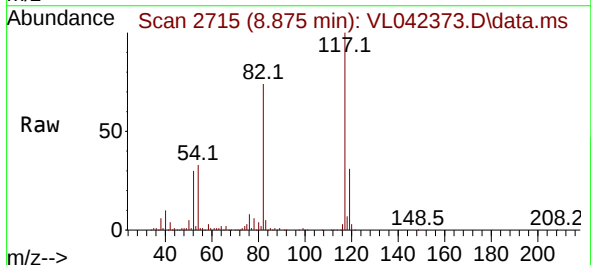
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

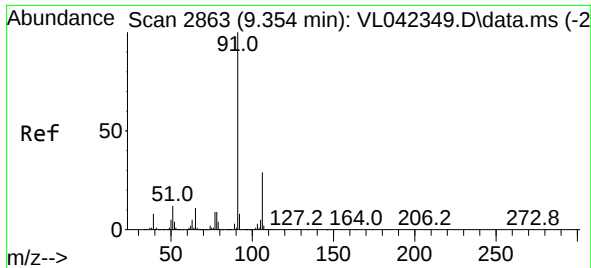
Tgt Ion: 91 Resp: 53637
Ion Ratio Lower Upper
91 100
92 62.9 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 117 Resp: 266154
Ion Ratio Lower Upper
117 100
82 69.4 57.8 86.6
119 32.1 25.2 37.8

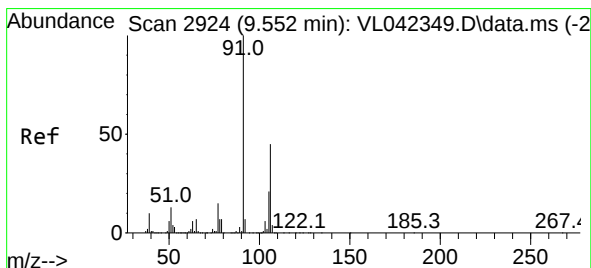
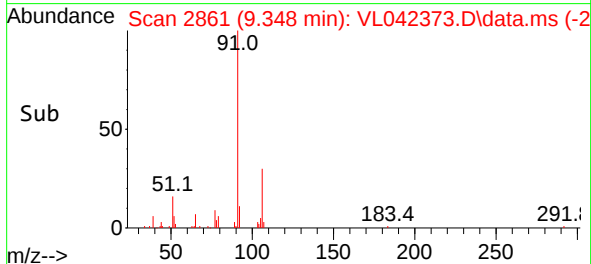
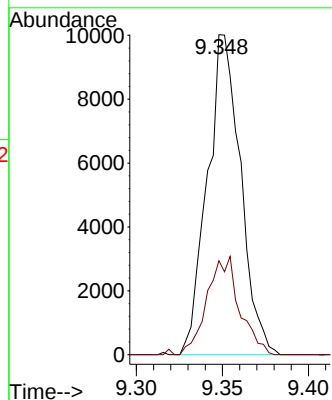
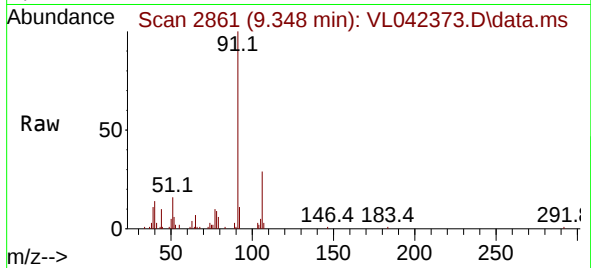




#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 9.348 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

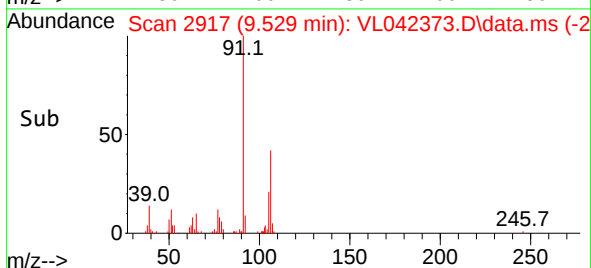
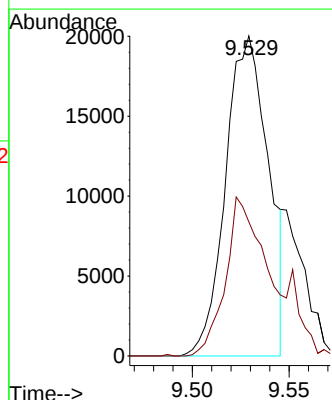
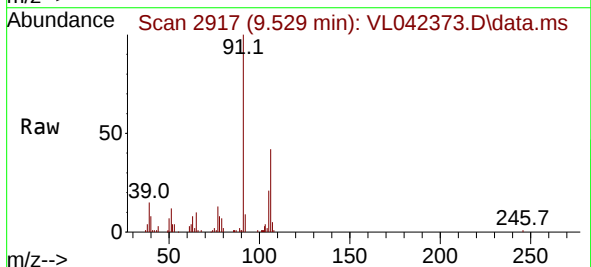
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

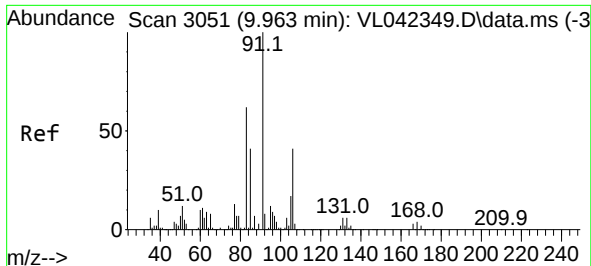
Tgt Ion: 91 Resp: 13474
Ion Ratio Lower Upper
91 100
106 29.4 23.0 34.4



#59
m/p-Xylene
Concen: 0.724 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.022 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 91 Resp: 30753
Ion Ratio Lower Upper
91 100
106 55.2 35.4 53.2#

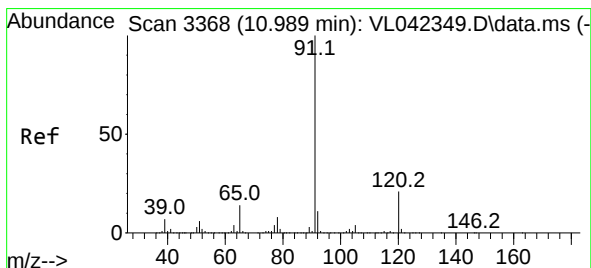
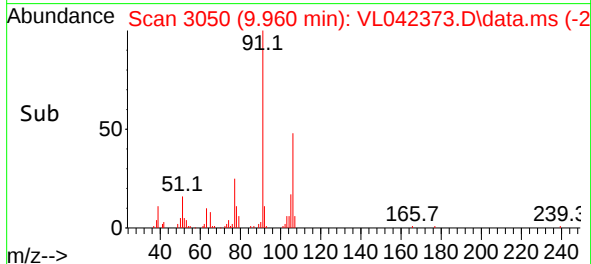
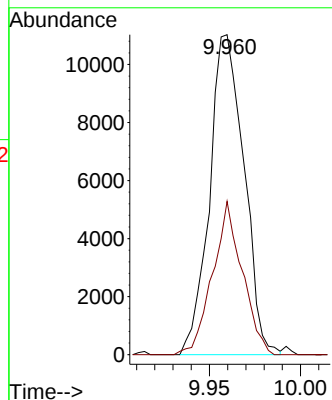
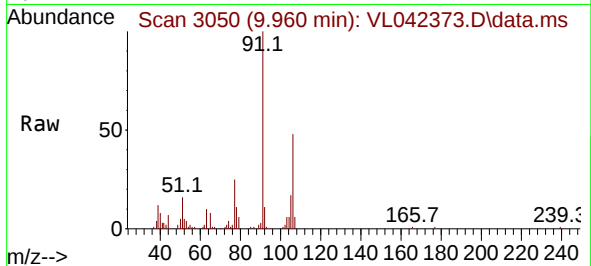




#60
o-Xylene
Concen: 0.339 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

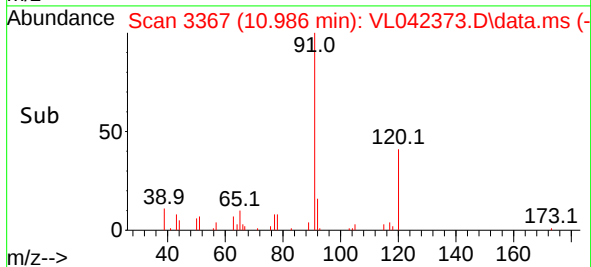
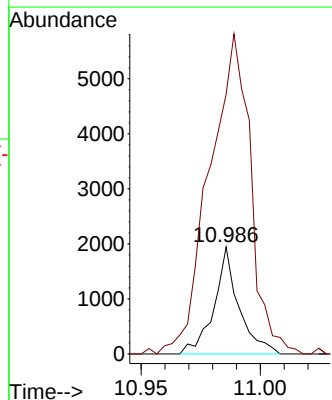
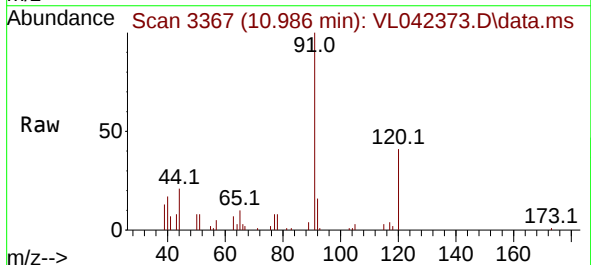
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

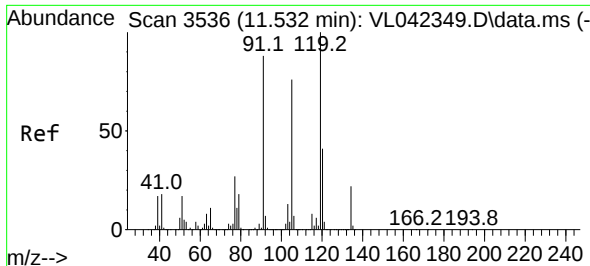
Tgt Ion: 91 Resp: 14506
Ion Ratio Lower Upper
91 100
106 41.3 21.1 63.4



#64
n-propylbenzene
Concen: 0.089 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 120 Resp: 1406
Ion Ratio Lower Upper
120 100
91 501.6 392.4 588.6

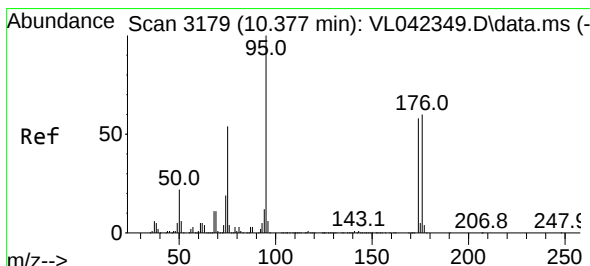
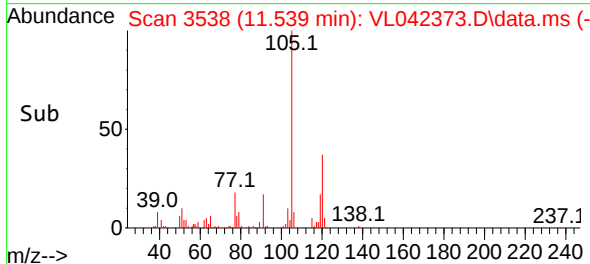
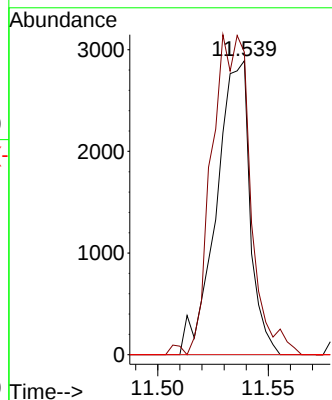
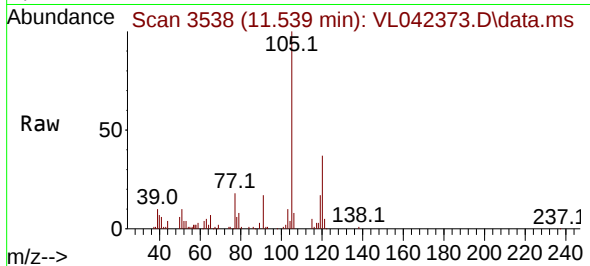




#65
tert-Butylbenzene
Concen: 0.053 ppbv
RT: 11.539 min Scan# 3119
Delta R.T. 0.007 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

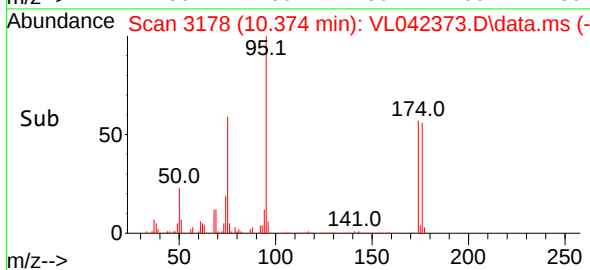
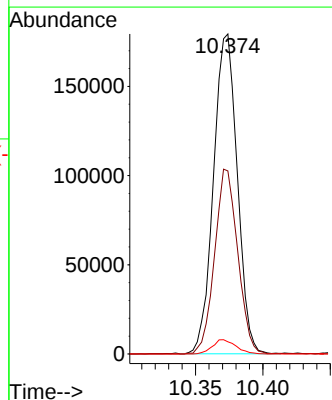
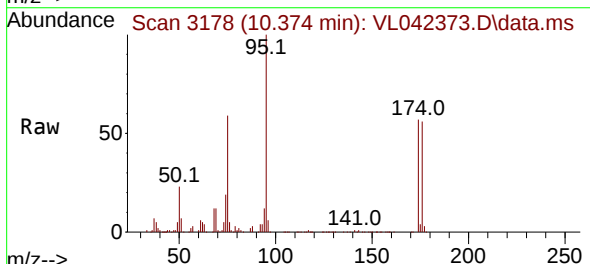
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

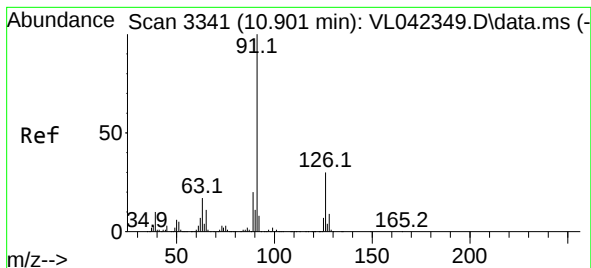
Tgt Ion:119 Resp: 3065
Ion Ratio Lower Upper
119 100
91 125.8 74.6 111.8#
134 1.0 18.8 28.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.062 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 95 Resp: 220060
Ion Ratio Lower Upper
95 100
174 56.3 48.5 72.7
175 4.4 3.7 5.5

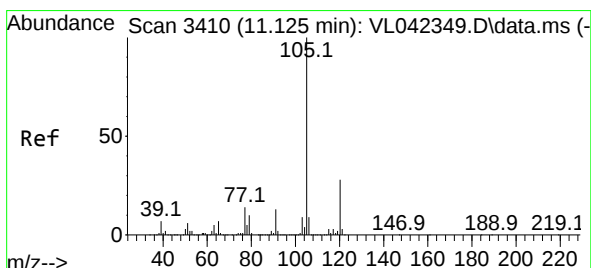
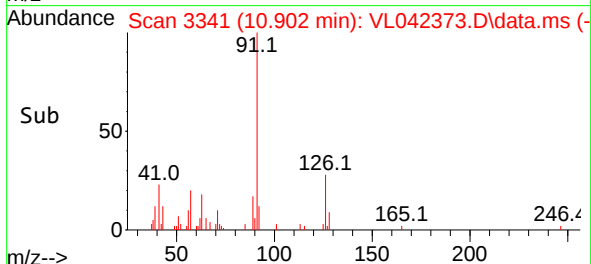
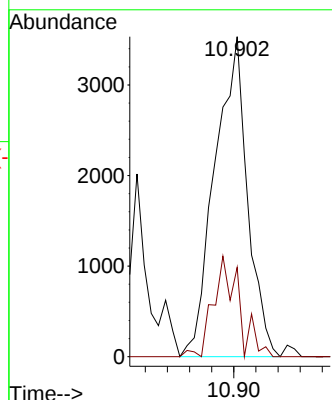
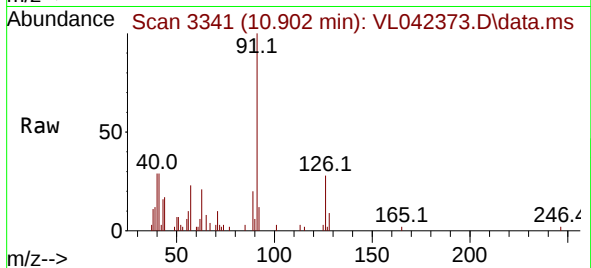




#71
2-Chlorotoluene
Concen: 0.073 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

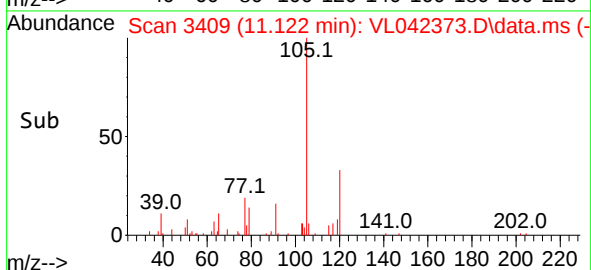
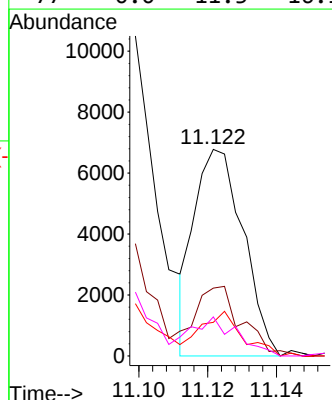
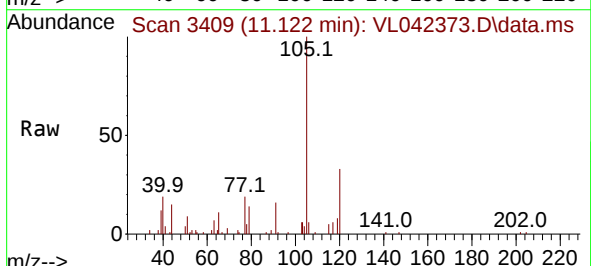
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

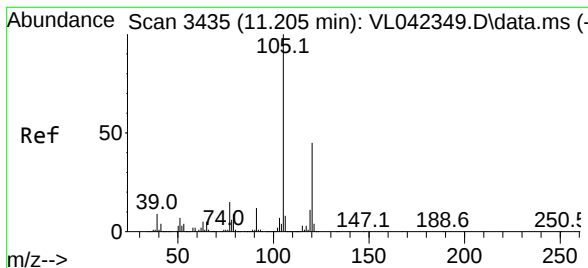
Tgt Ion: 91 Resp: 3618
Ion Ratio Lower Upper
91 100
126 24.8 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.128 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 6684
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.180 ppbv

RT: 11.199 min Scan# 34

Delta R.T. -0.006 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

Instrument :

MSVOA_L

ClientSampleId :

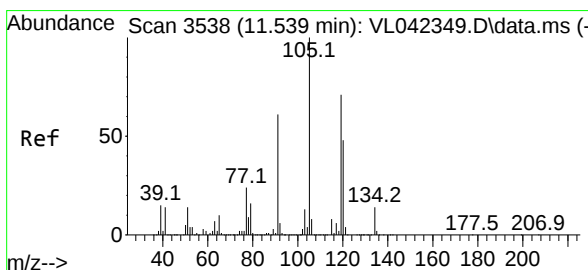
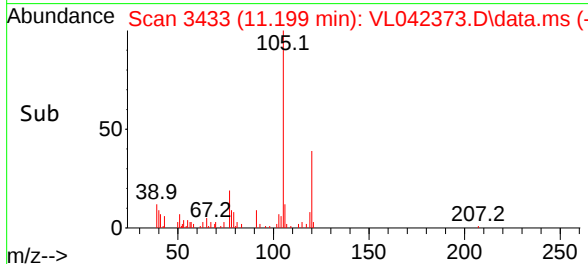
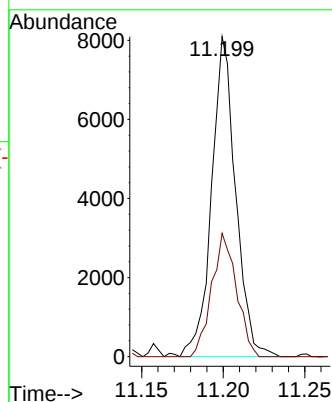
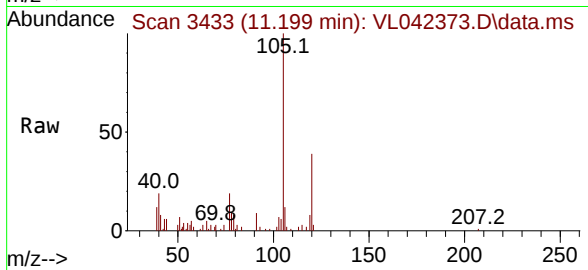
IA-B2-4-03312025DL

Tgt Ion:105 Resp: 8296

Ion Ratio Lower Upper

105 100

120 41.5 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.468 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 25240

Ion Ratio Lower Upper

105 100

120 38.8 38.1 57.1

91 12.8 48.8 73.2#

77 13.3 19.0 28.4#

