

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042410.D
 Acq On : 21 Apr 2025 17:54
 Operator : SY/MD
 Sample : Q1843-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Apr 22 02:57:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	2.787	49	129371	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	359934	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	304674	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	263167	10.511	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.100%

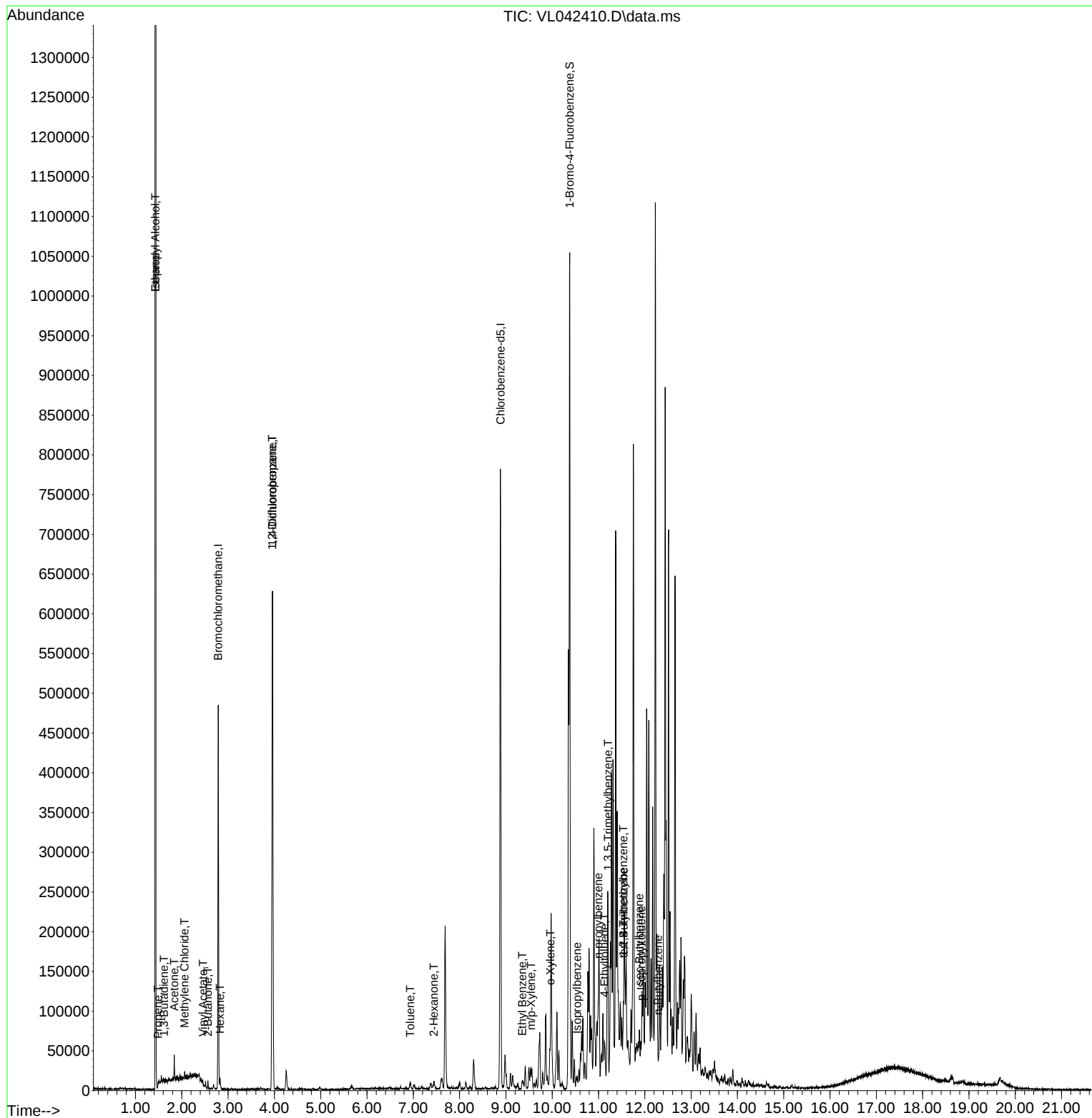
Target Compounds					Qvalue	
9) Propene	1.486	41	916	0.092	ppbv #	26
13) Ethanol	1.431	45	292259	185.502	ppbv	74
15) Acetone	1.835	43	12872	0.608	ppbv	90
16) 1,3-Butadiene	1.615	39	401	0.040	ppbv #	9
19) Isopropyl Alcohol	1.431	45	292259	24.842	ppbv #	33
20) Methylene Chloride	2.059	84	1438	0.173	ppbv #	69
23) Vinyl Acetate	2.457	43	299	0.035	ppbv #	1
26) Hexane	2.826	57	3495	0.165	ppbv #	30
34) 2-Butanone	2.564	43	5349	0.188	ppbv	98
39) 1,2-Dichloropropane	3.955	63	97398	6.732	ppbv #	21
51) 2-Hexanone	7.445	43	2509	0.059	ppbv #	15
53) Toluene	6.933	91	5165	0.111	ppbv	97
58) Ethyl Benzene	9.354	91	5021	0.083	ppbv	94
59) m/p-Xylene	9.545	91	3788	0.078	ppbv #	32
60) o-Xylene	9.963	91	8503	0.174	ppbv	92
62) Isopropylbenzene	10.539	105	2424	0.034	ppbv #	81
64) n-propylbenzene	10.992	120	1376	0.076	ppbv #	1
65) tert-Butylbenzene	11.539	119	2853	0.043	ppbv #	1
67) sec-Butylbenzene	11.882	105	9216	0.100	ppbv	97
69) p-Isopropyltoluene	11.924	119	3952	0.049	ppbv #	87
70) n-Butylbenzene	12.287	91	2803	0.034	ppbv #	68
72) 4-Ethyltoluene	11.128	105	7646	0.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.206	105	10602	0.201	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	28051	0.454	ppbv #	58

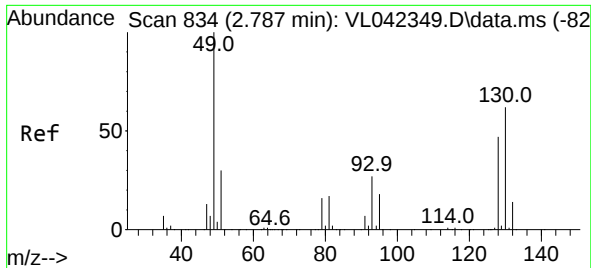
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

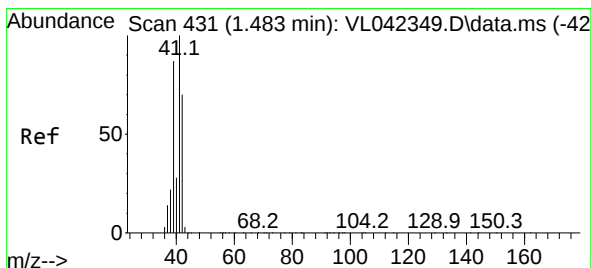
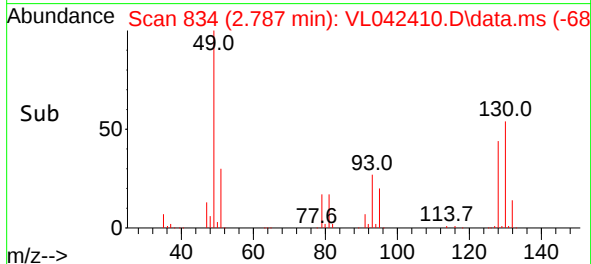
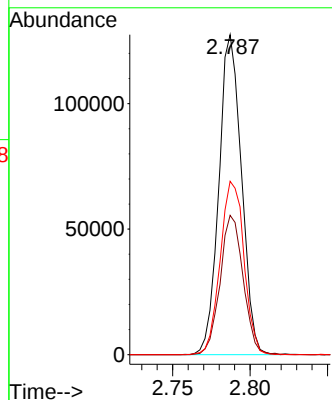
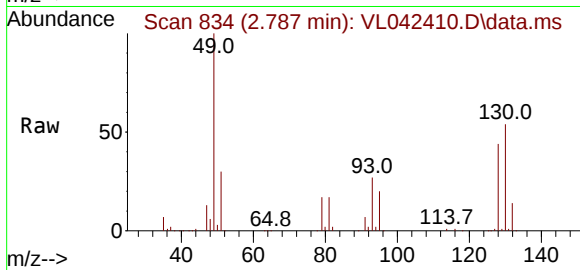




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

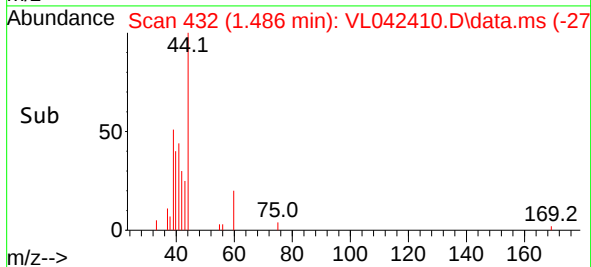
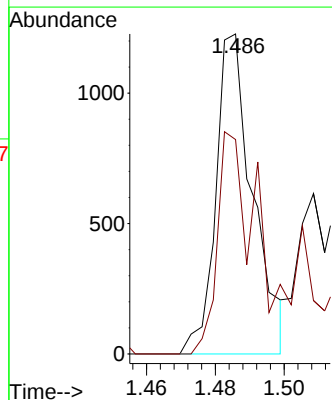
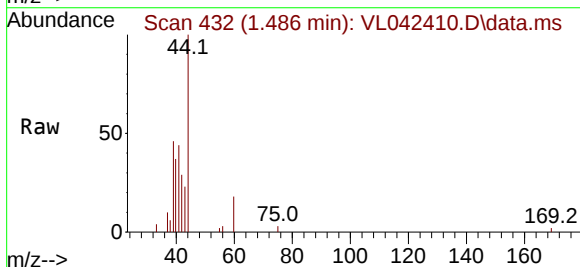
Instrument :
MSVOA_L
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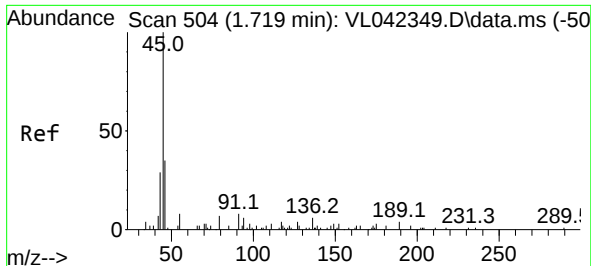
Tgt Ion: 49 Resp: 129371
Ion Ratio Lower Upper
49 100
128 44.4 22.8 68.4
130 57.1 29.3 88.0



#9
Propene
Concen: 0.092 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 41 Resp: 916
Ion Ratio Lower Upper
41 100
42 131.3 56.2 84.4#

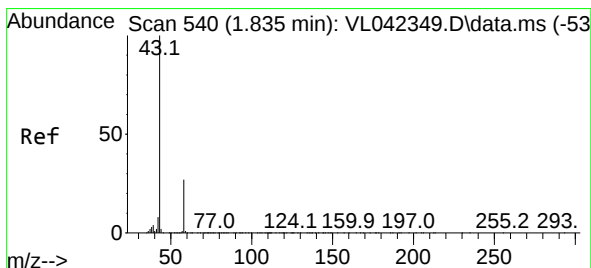
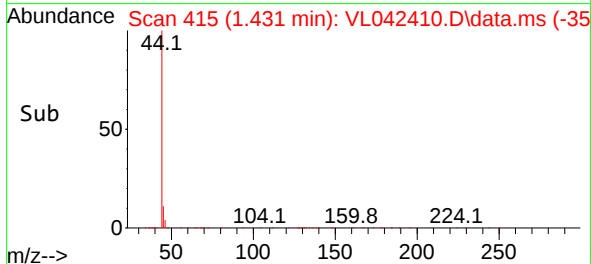
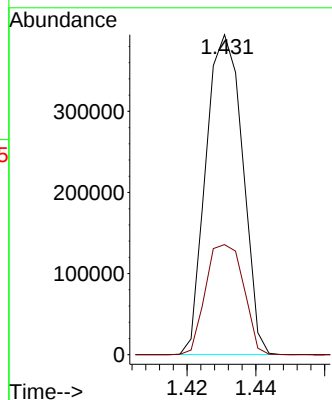
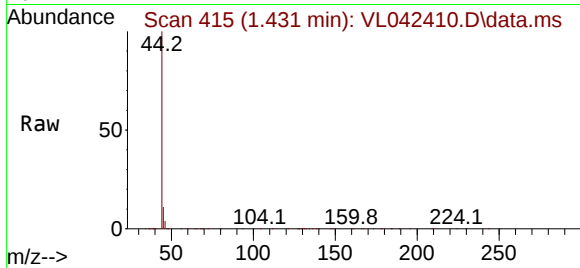




#13
Ethanol
Concen: 185.502 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.288 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

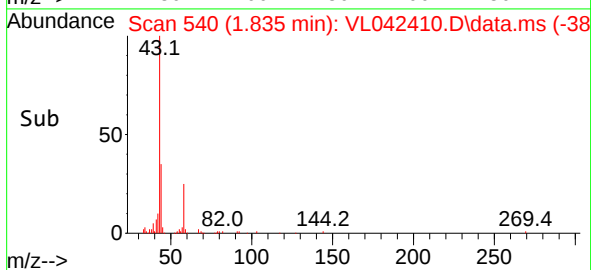
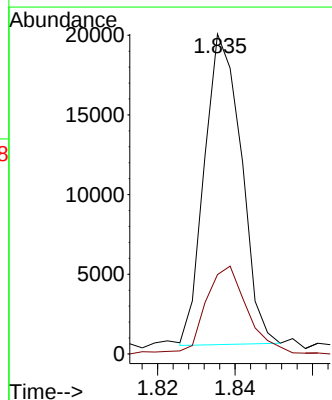
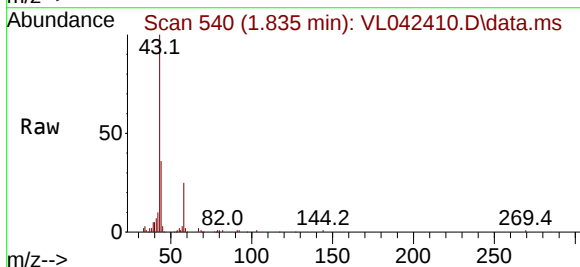
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

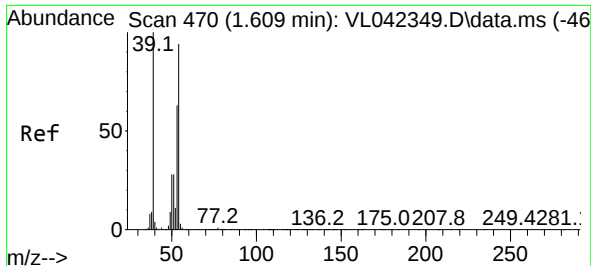
Tgt Ion: 45 Resp: 292259
Ion Ratio Lower Upper
45 100
46 35.7 21.9 87.7



#15
Acetone
Concen: 0.608 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 43 Resp: 12872
Ion Ratio Lower Upper
43 100
58 33.3 22.4 33.6

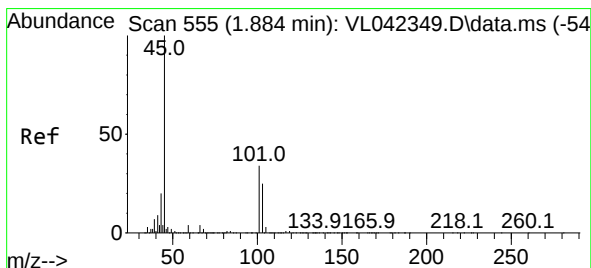
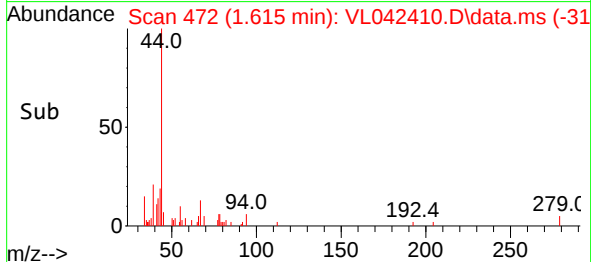
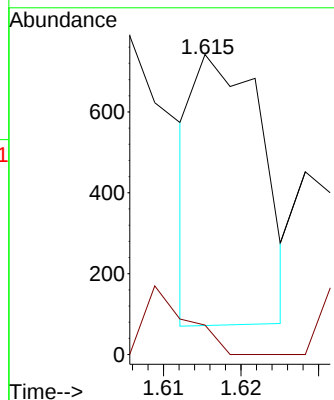
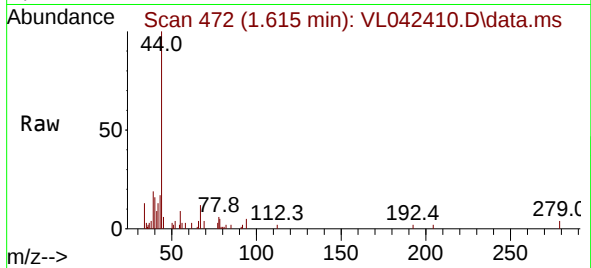




#16
1,3-Butadiene
Concen: 0.040 ppbv
RT: 1.615 min Scan# 415
Delta R.T. 0.007 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

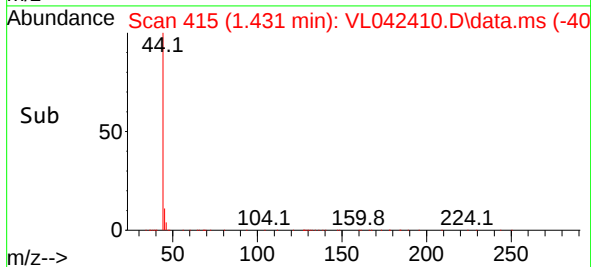
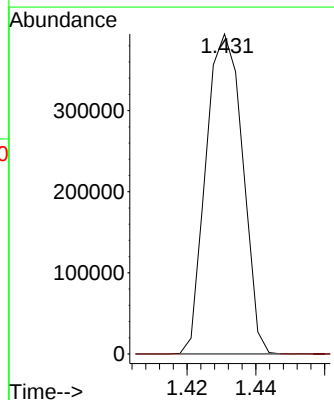
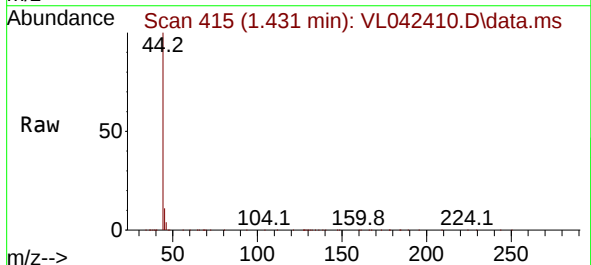
Instrument :
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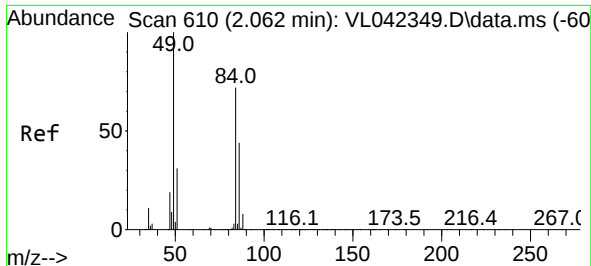
Tgt Ion: 39 Resp: 401
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 24.842 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.453 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 45 Resp: 292259
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7#

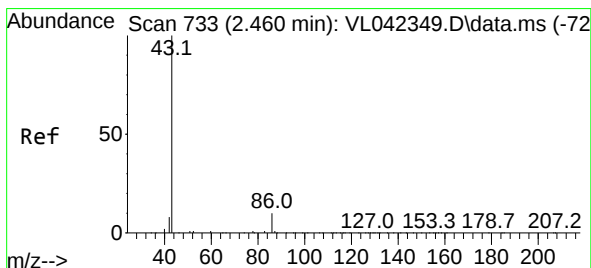
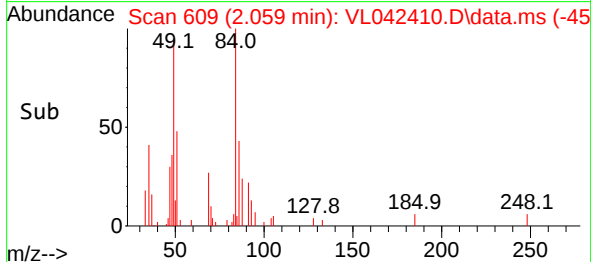
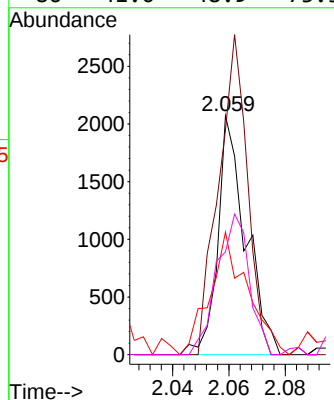
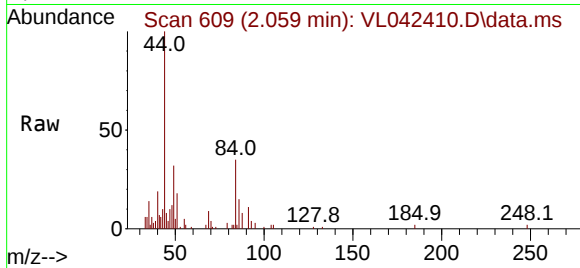




#20
Methylene Chloride
Concen: 0.173 ppbv
RT: 2.059 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

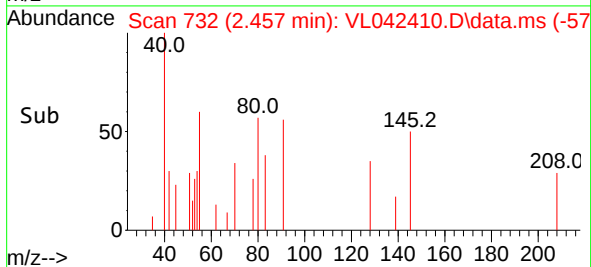
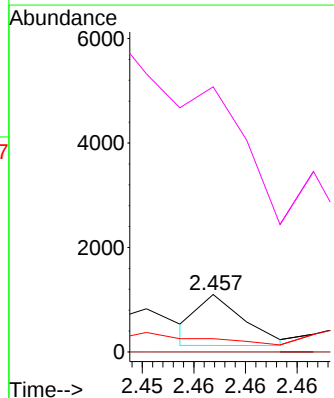
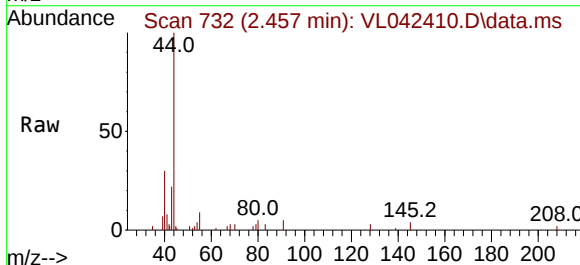
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

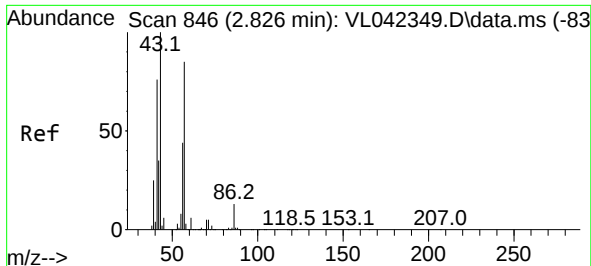
Tgt Ion:	84	Resp:	1438
Ion	Ratio	Lower	Upper
84	100		
49	89.6	111.6	167.4#
51	48.8	35.1	52.7
86	41.0	48.9	73.3#



#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion:	43	Resp:	299
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	13.8	7.8	11.8#
44	317.1	5.0	7.6#

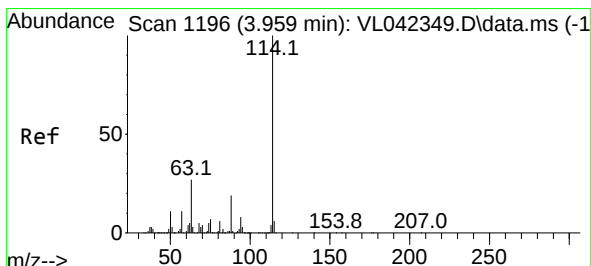
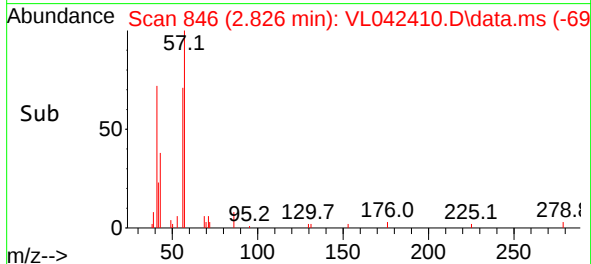
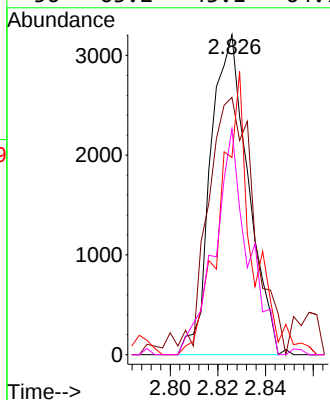
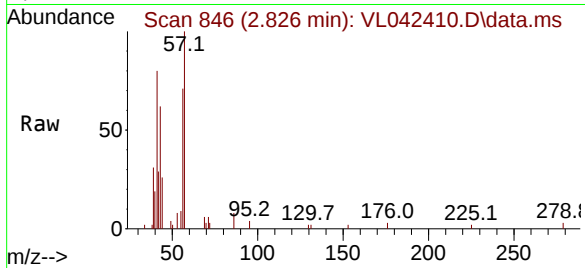




#26
Hexane
Concen: 0.165 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

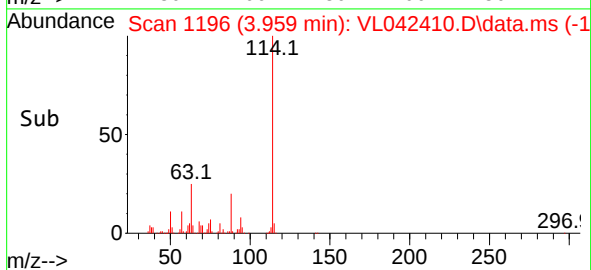
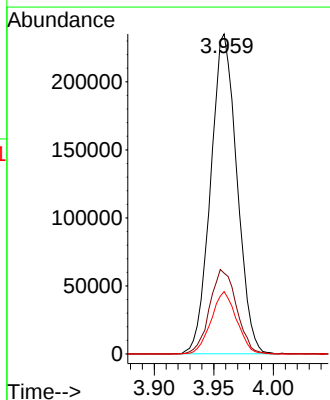
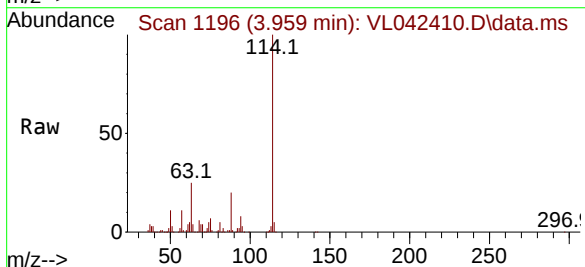
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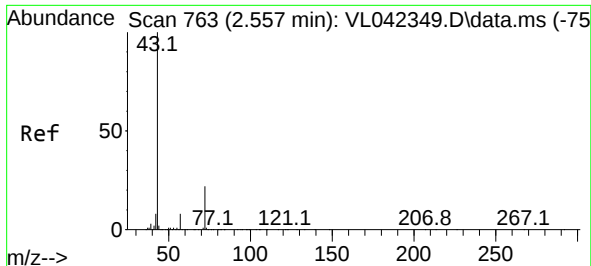
Tgt Ion:	57	Resp:	3495
Ion	Ratio	Lower	Upper
57	100		
41	110.7	77.9	116.9
43	75.6	208.4	312.6#
56	63.2	43.1	64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion:	114	Resp:	359934
Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.8	32.6
88	19.0	15.5	23.3

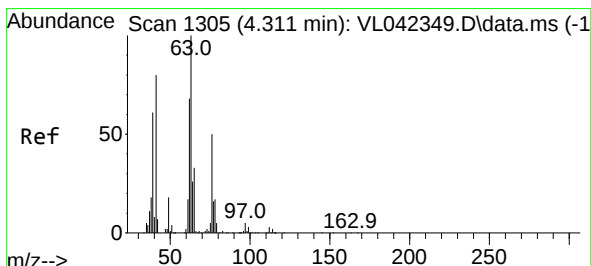
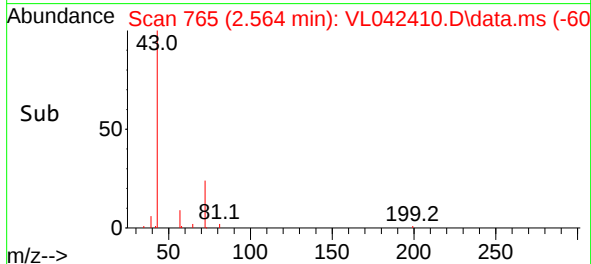
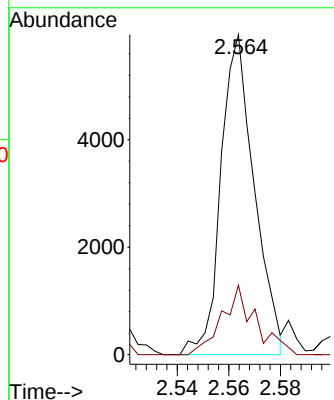
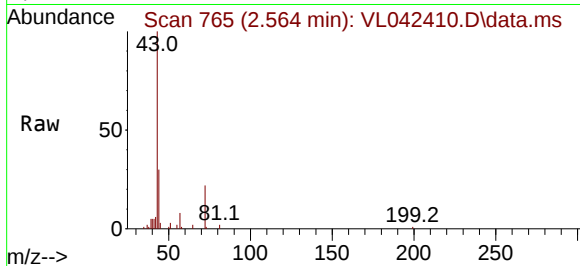




#34
2-Butanone
Concen: 0.188 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

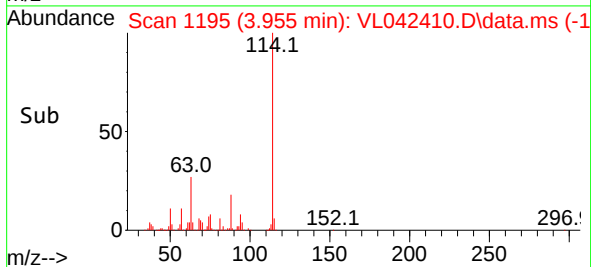
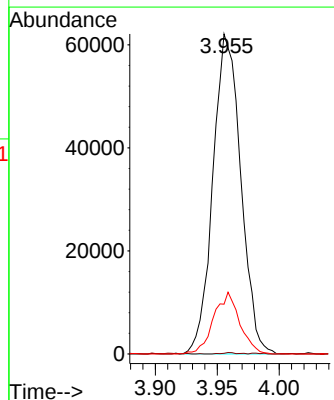
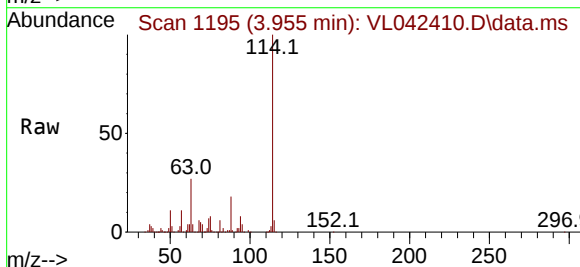
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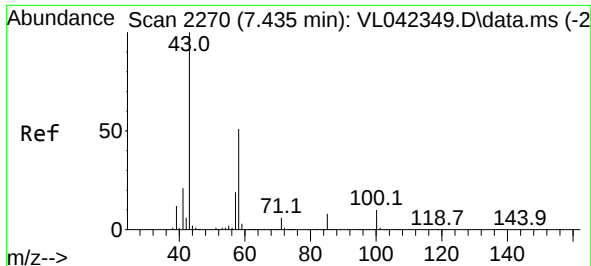
Tgt Ion: 43 Resp: 5349
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2



#39
1,2-Dichloropropane
Concen: 6.732 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 63 Resp: 97398
Ion Ratio Lower Upper
63 100
41 0.2 64.2 96.2#
62 15.6 54.3 81.5#

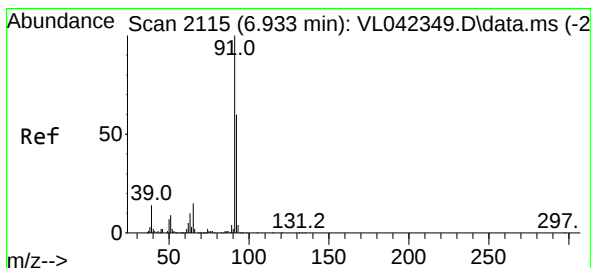
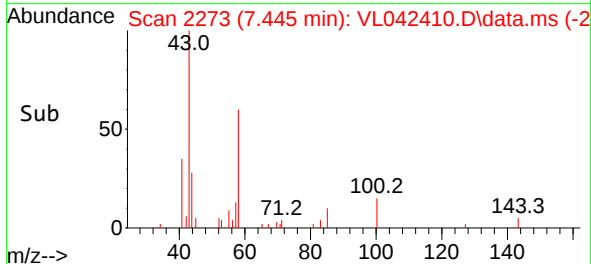
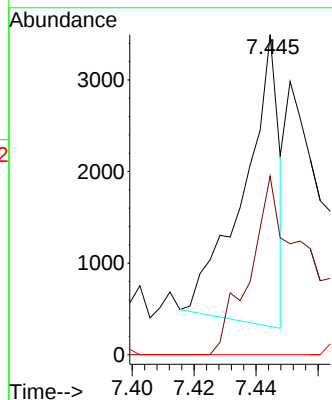
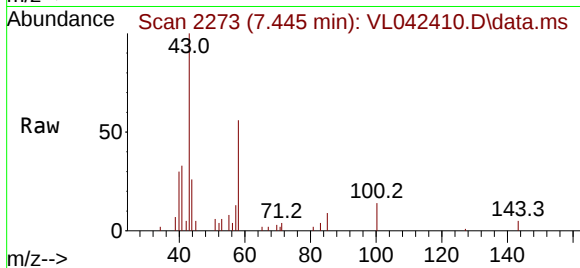




#51
2-Hexanone
Concen: 0.059 ppbv
RT: 7.445 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

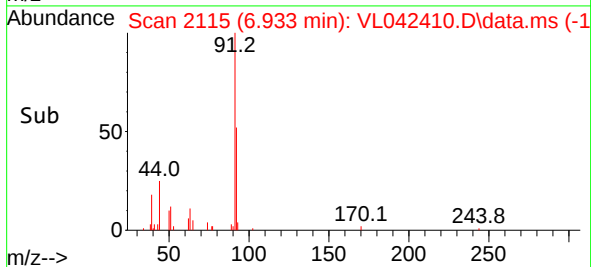
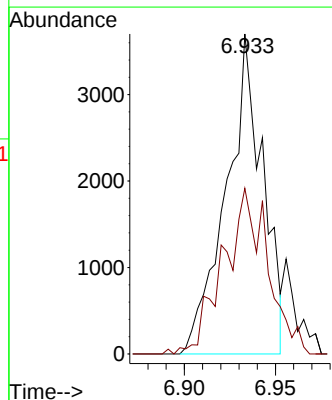
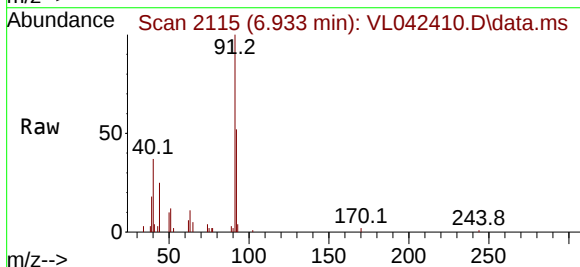
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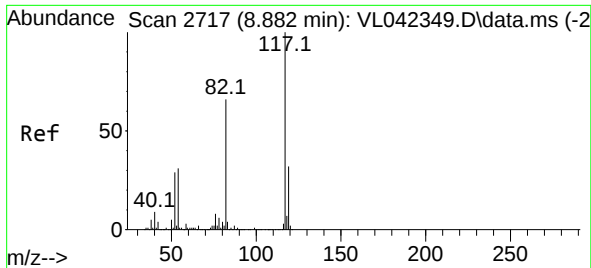
Tgt Ion: 43 Resp: 2509
Ion Ratio Lower Upper
43 100
58 109.5 40.2 60.4#
98 0.0 0.1 0.1#



#53
Toluene
Concen: 0.111 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 91 Resp: 5165
Ion Ratio Lower Upper
91 100
92 62.8 48.2 72.4

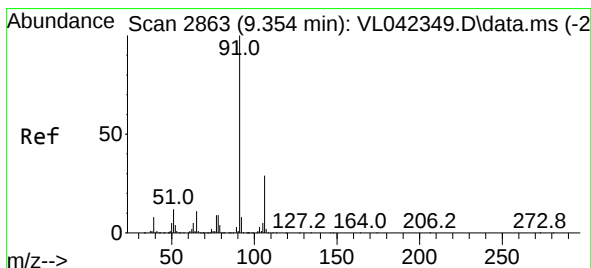
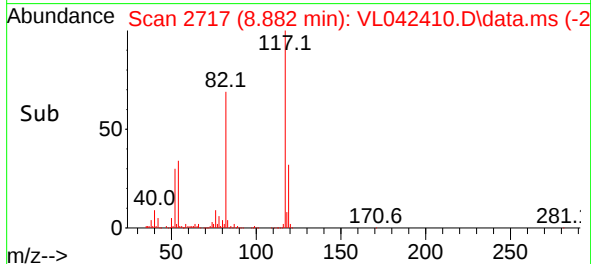
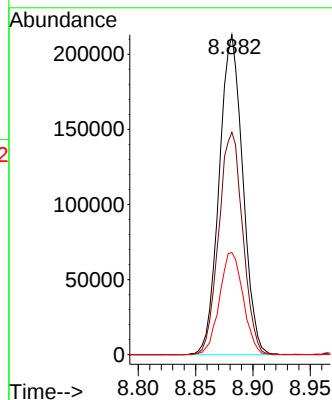
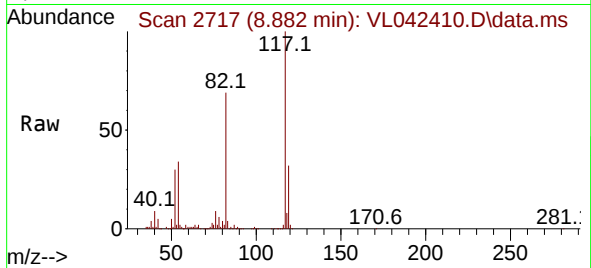




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

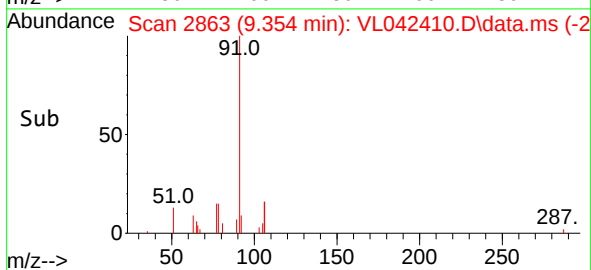
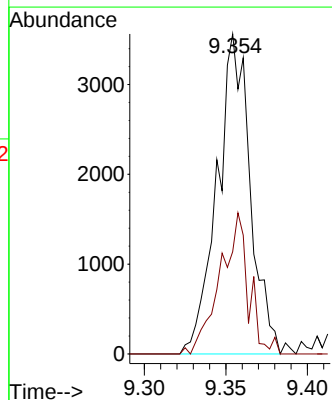
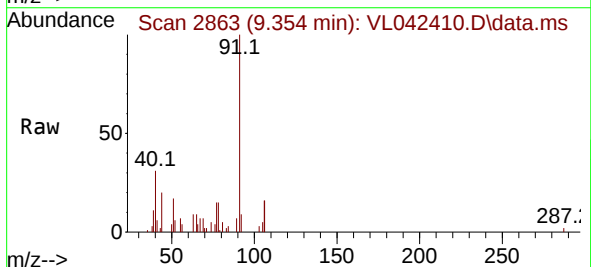
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

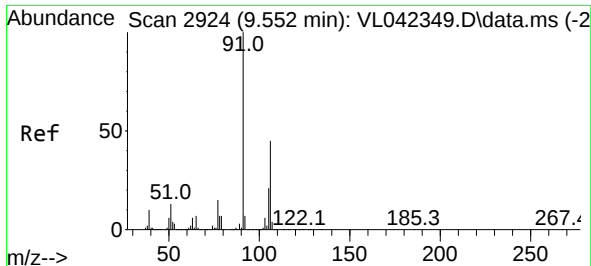
Tgt Ion:117 Resp: 304674
Ion Ratio Lower Upper
117 100
82 70.8 57.8 86.6
119 32.1 25.2 37.8



#58
Ethyl Benzene
Concen: 0.083 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 91 Resp: 5021
Ion Ratio Lower Upper
91 100
106 31.9 23.0 34.4





#59

m/p-Xylene

Concen: 0.078 ppbv

RT: 9.545 min Scan# 2924

Delta R.T. -0.006 min

Lab File: VL042410.D

Acq: 21 Apr 2025 17:54

Instrument :

MSVOA_L

ClientSampleId :

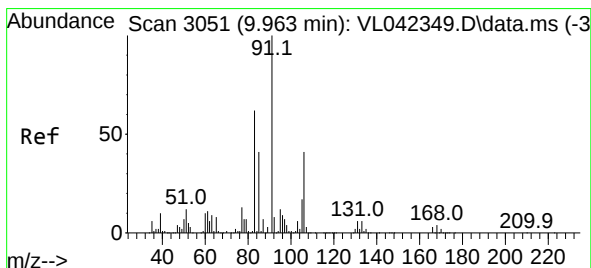
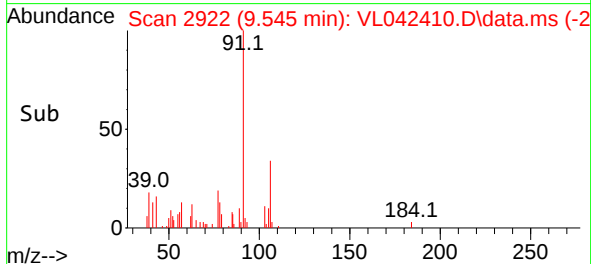
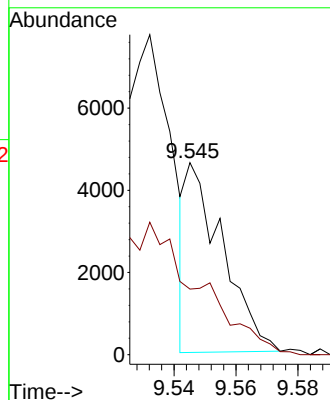
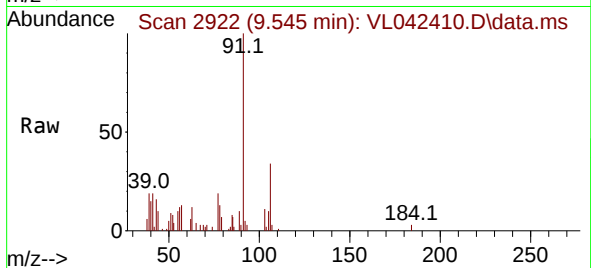
SV1DL

Tgt Ion: 91 Resp: 3788

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.174 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042410.D

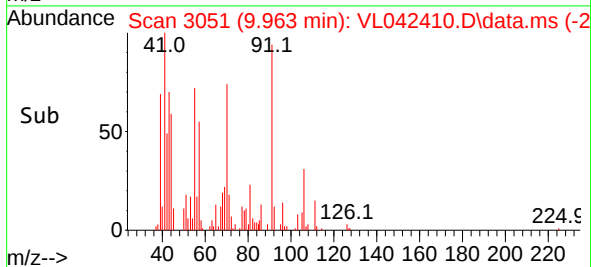
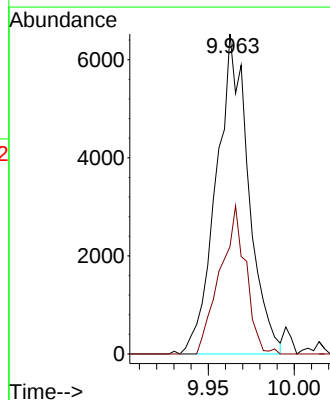
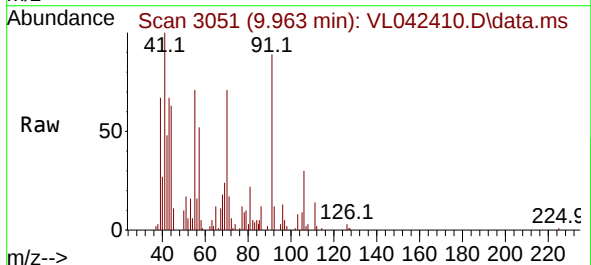
Acq: 21 Apr 2025 17:54

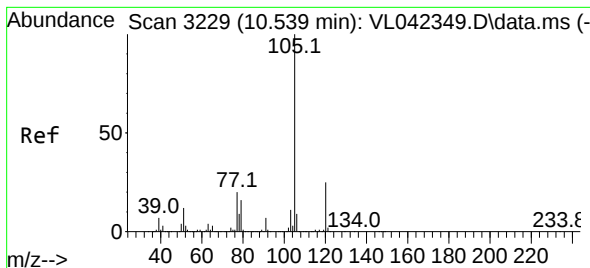
Tgt Ion: 91 Resp: 8503

Ion Ratio Lower Upper

91 100

106 37.0 21.1 63.4

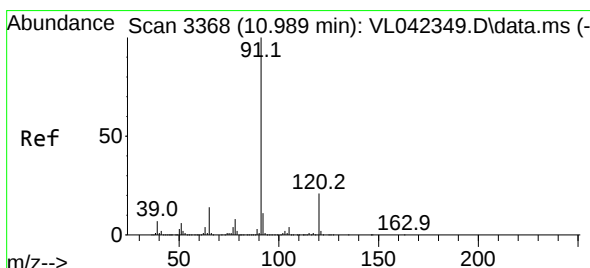
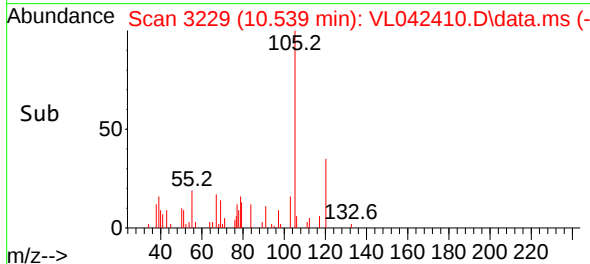
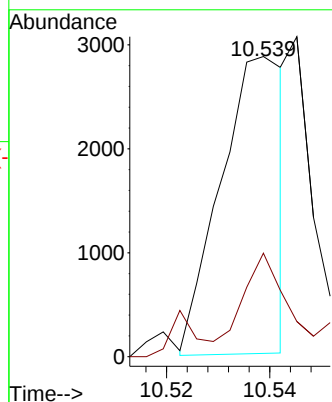
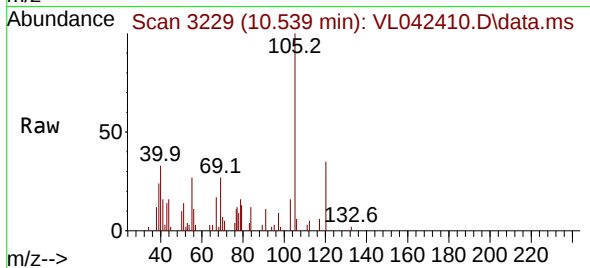




#62
Isopropylbenzene
Concen: 0.034 ppbv
RT: 10.539 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

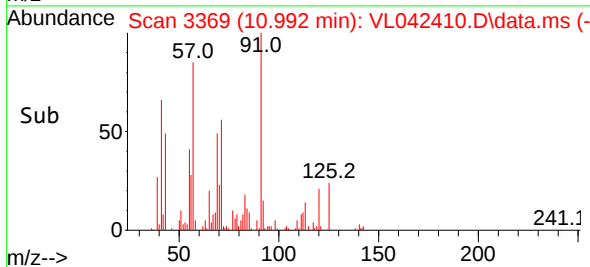
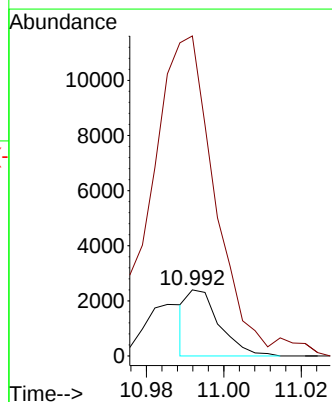
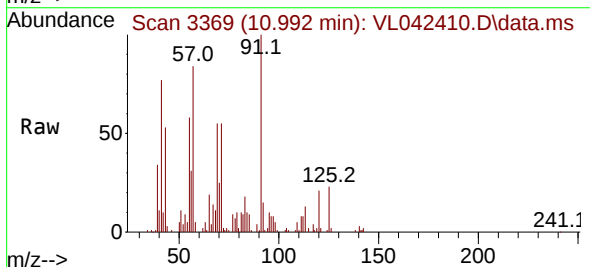
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

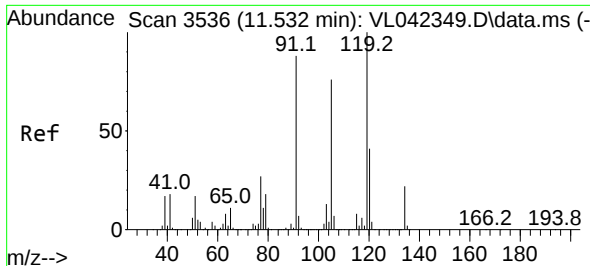
Tgt Ion:105 Resp: 2424
Ion Ratio Lower Upper
105 100
120 34.2 19.8 29.8#



#64
n-propylbenzene
Concen: 0.076 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion:120 Resp: 1376
Ion Ratio Lower Upper
120 100
91 1042.3 392.4 588.6#

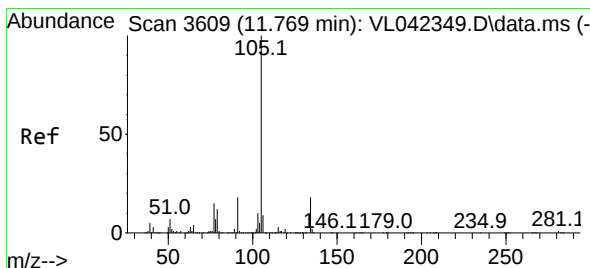
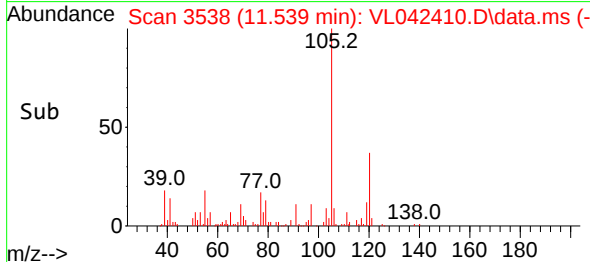
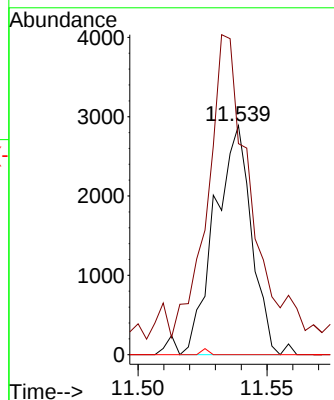
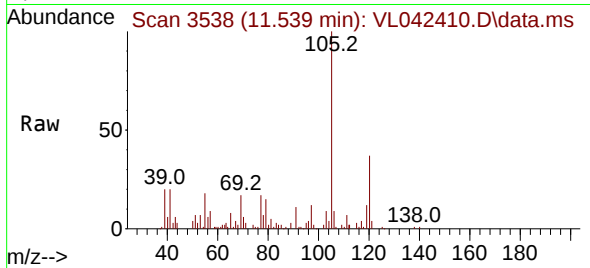




#65
tert-Butylbenzene
Concen: 0.043 ppbv
RT: 11.539 min Scan# 311
Delta R.T. 0.007 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

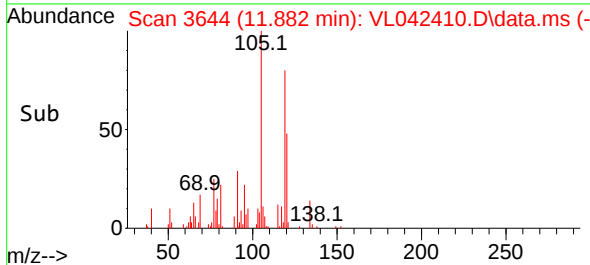
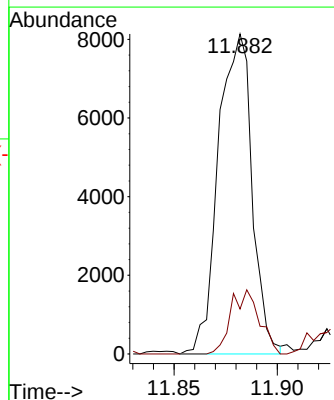
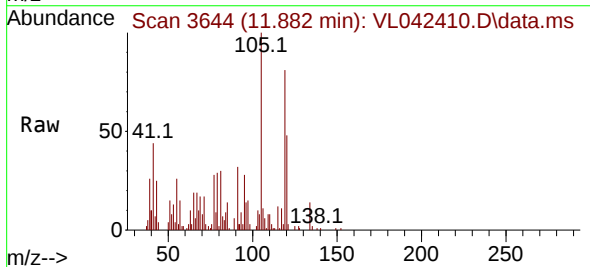
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

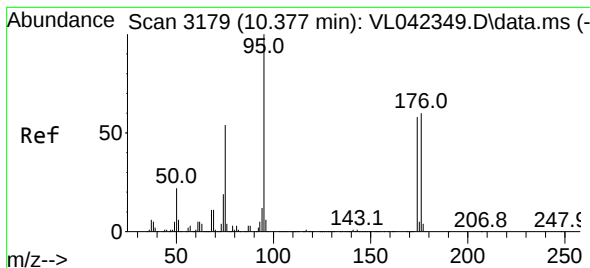
Tgt Ion:119 Resp: 2853
Ion Ratio Lower Upper
119 100
91 204.7 74.6 111.8#
134 0.0 18.8 28.2#



#67
sec-Butylbenzene
Concen: 0.100 ppbv
RT: 11.882 min Scan# 3644
Delta R.T. 0.113 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion:105 Resp: 9216
Ion Ratio Lower Upper
105 100
134 17.0 14.6 21.8

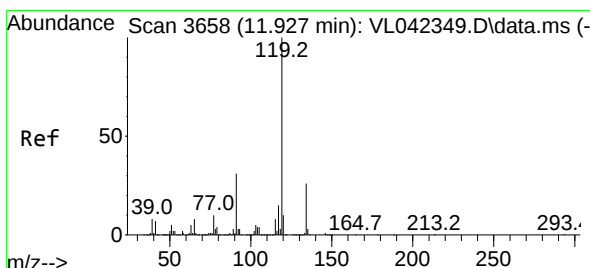
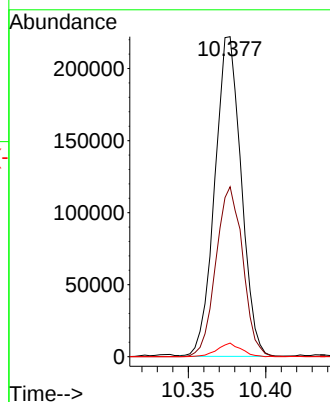
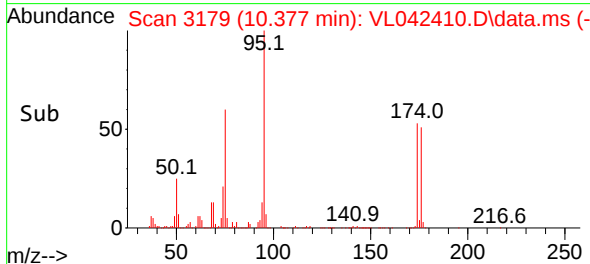
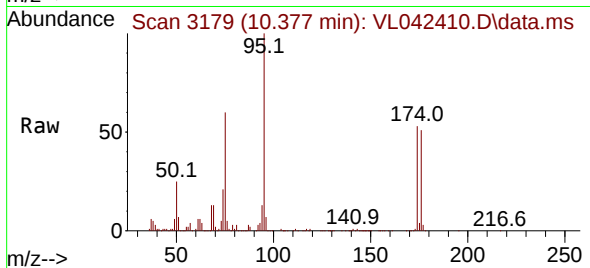




#68
1-Bromo-4-Fluorobenzene
Concen: 10.511 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

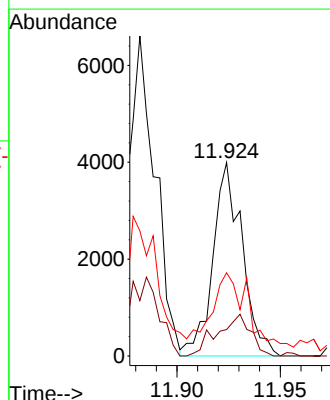
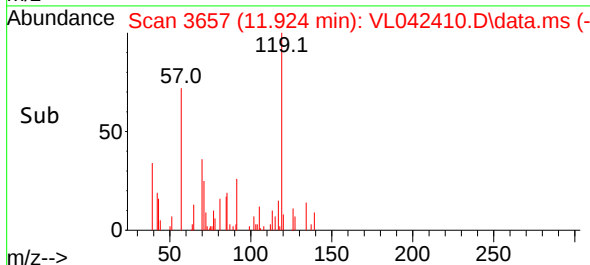
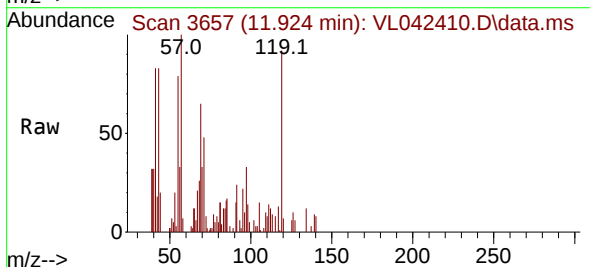
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

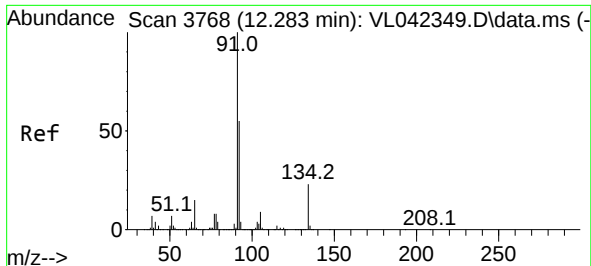
Tgt Ion: 95 Resp: 263167
Ion Ratio Lower Upper
95 100
174 54.3 48.5 72.7
175 3.9 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.049 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 119 Resp: 3952
Ion Ratio Lower Upper
119 100
134 24.9 20.0 30.0
91 43.6 24.4 36.6#

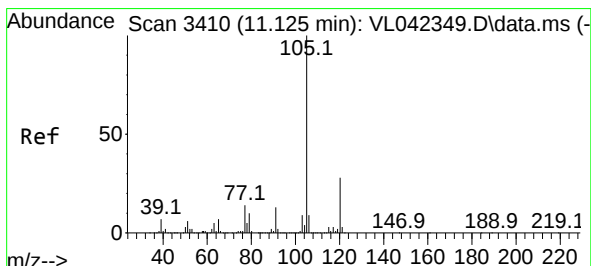
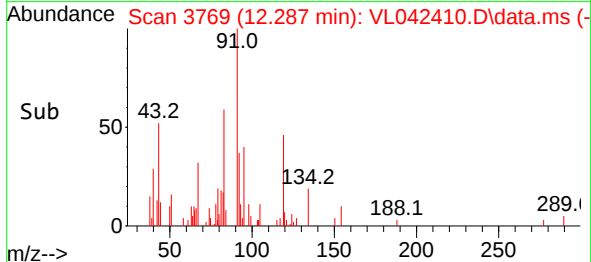
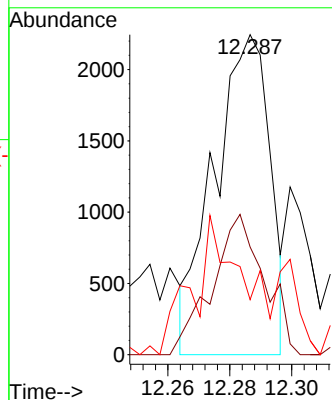
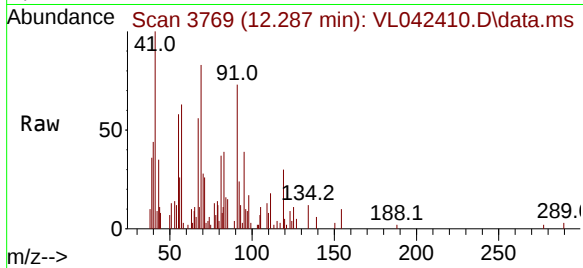




#70
n-Butylbenzene
Concen: 0.034 ppbv
RT: 12.287 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

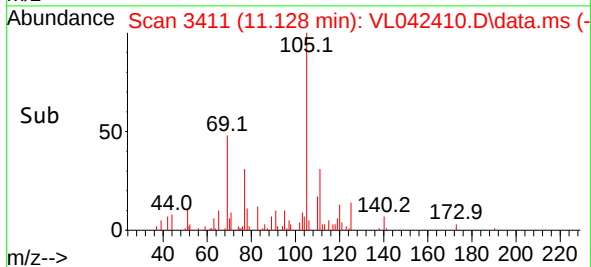
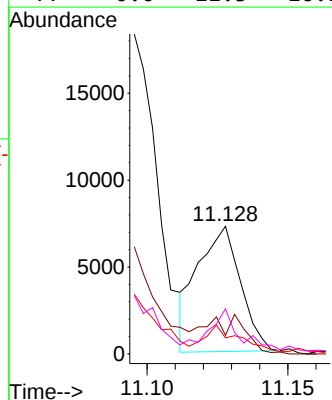
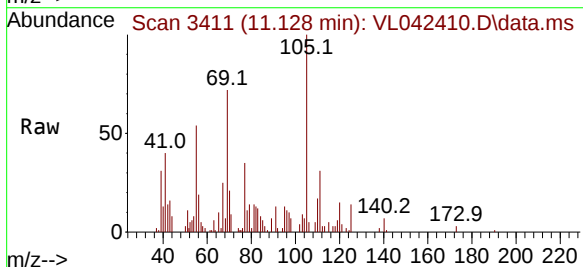
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

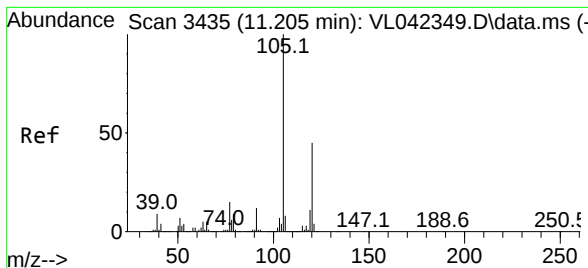
Tgt Ion: 91 Resp: 2803
Ion Ratio Lower Upper
91 100
92 41.1 44.2 66.4#
134 52.3 18.2 27.4#



#72
4-Ethyltoluene
Concen: 0.128 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042410.D
Acq: 21 Apr 2025 17:54

Tgt Ion: 105 Resp: 7646
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: 0.201 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042410.D

Acq: 21 Apr 2025 17:54

Instrument :

MSVOA_L

ClientSampleId :

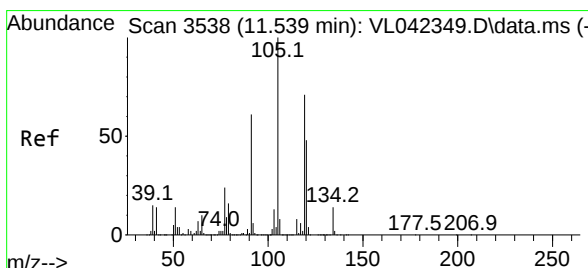
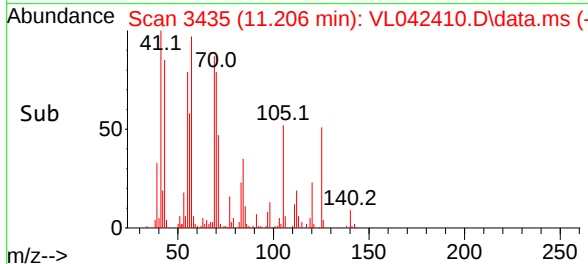
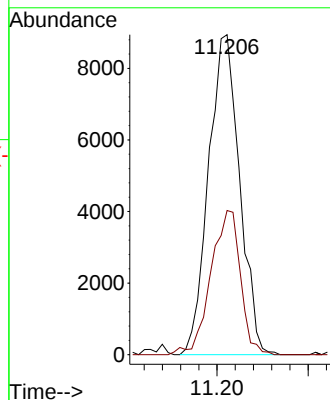
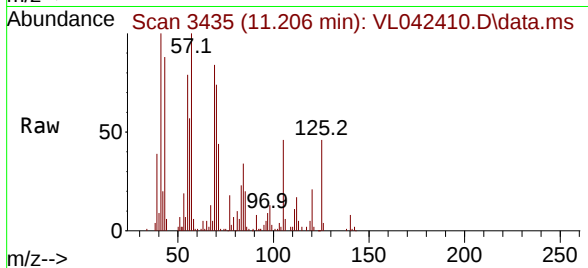
SV1DL

Tgt Ion:105 Resp: 10602

Ion Ratio Lower Upper

105 100

120 45.1 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.454 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042410.D

Acq: 21 Apr 2025 17:54

Tgt Ion:105 Resp: 28051

Ion Ratio Lower Upper

105 100

120 32.8 38.1 57.1#

91 11.7 48.8 73.2#

77 12.0 19.0 28.4#

