

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042388.D
 Acq On : 18 Apr 2025 13:12
 Operator : SY/MD
 Sample : Q1726-02DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL2

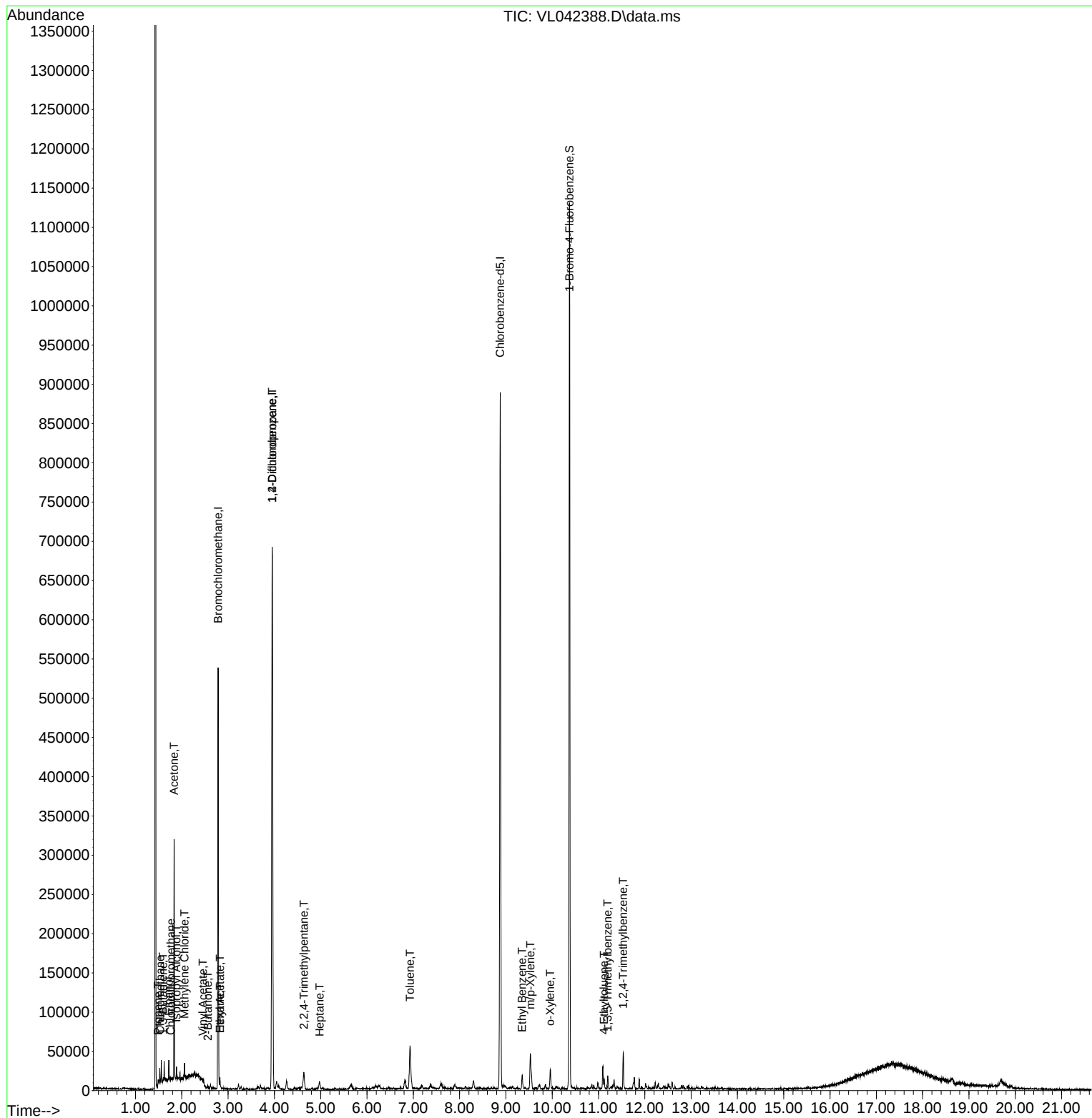
Quant Time: Apr 18 22:58:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

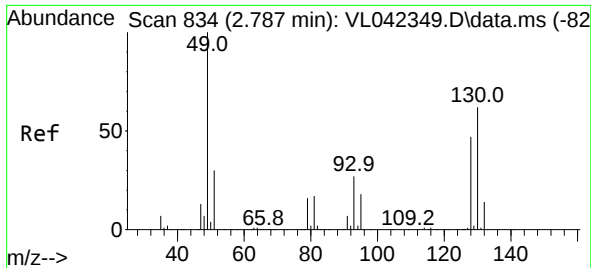
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	132986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	409322	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	354583	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288297	9.894	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.764	51	819	0.037	ppbv	99
4) Chloromethane	1.531	50	1157	0.124	ppbv #	76
9) Propene	1.489	41	1101	0.108	ppbv #	80
10) Heptane	4.975	43	1622	0.057	ppbv #	22
13) Ethanol	1.719	45	8476	5.234	ppbv	85
15) Acetone	1.832	43	132763	6.098	ppbv	98
16) 1,3-Butadiene	1.596	39	936	0.090	ppbv #	9
19) Isopropyl Alcohol	1.884	45	7402	0.612	ppbv #	1
20) Methylene Chloride	2.059	84	2832	0.332	ppbv	88
23) Vinyl Acetate	2.454	43	996	0.113	ppbv #	78
25) Ethyl Acetate	2.823	43	2191	0.041	ppbv #	82
26) Hexane	2.823	57	3262	0.150	ppbv #	37
34) 2-Butanone	2.560	43	1698	0.052	ppbv #	80
39) 1,2-Dichloropropane	3.952	63	105929	6.439	ppbv #	23
44) 2,2,4-Trimethylpentane	4.638	57	16039	0.210	ppbv #	83
53) Toluene	6.930	91	36363	0.686	ppbv	100
58) Ethyl Benzene	9.348	91	6095	0.087	ppbv #	88
59) m/p-Xylene	9.526	91	27952	0.494	ppbv	96
60) o-Xylene	9.956	91	9433	0.166	ppbv	80
72) 4-Ethyltoluene	11.121	105	5468	0.078	ppbv #	80
73) 1,3,5-Trimethylbenzene	11.199	105	5228	0.085	ppbv #	86
74) 1,2,4-Trimethylbenzene	11.532	105	17448	0.243	ppbv #	63

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

Quant Time: Apr 18 22:58:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

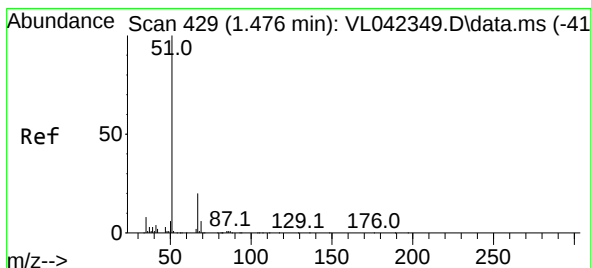
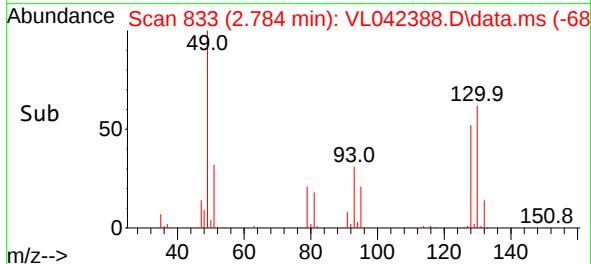
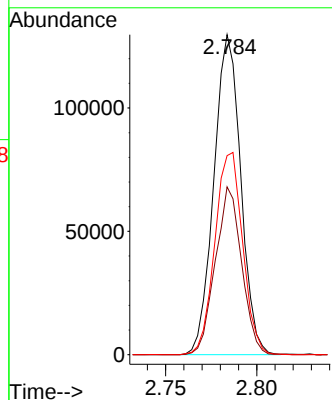
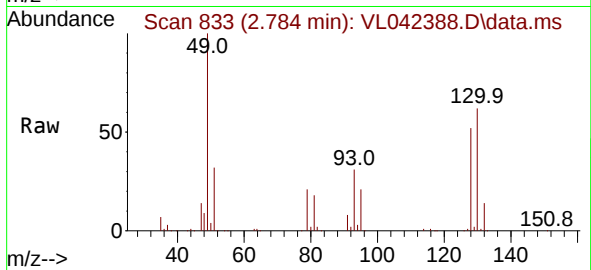




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042388.D
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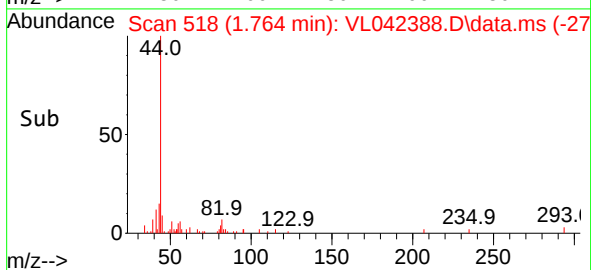
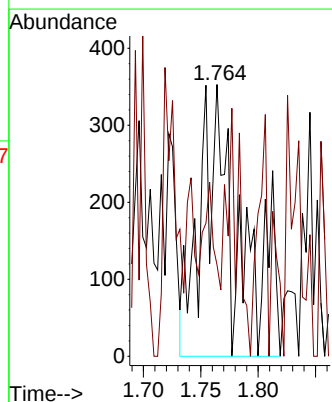
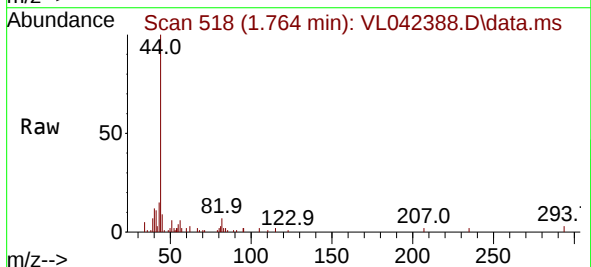
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

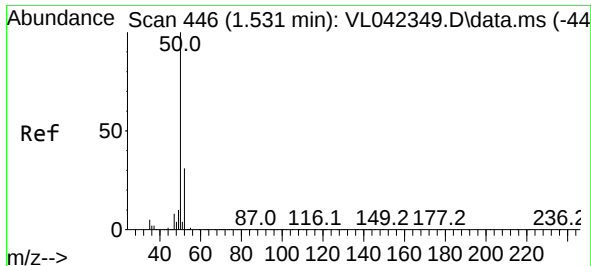
Tgt Ion: 49 Resp: 132986
Ion Ratio Lower Upper
49 100
128 51.2 22.8 68.4
130 65.3 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.764 min Scan# 518
Delta R.T. 0.288 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 51 Resp: 819
Ion Ratio Lower Upper
51 100
67 19.7 16.2 24.4

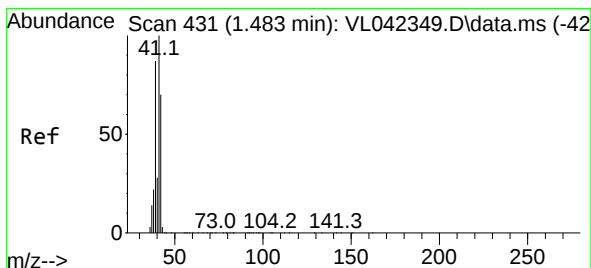
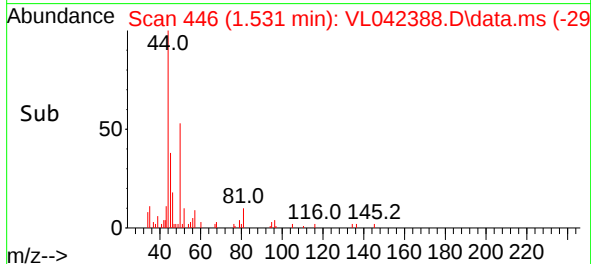
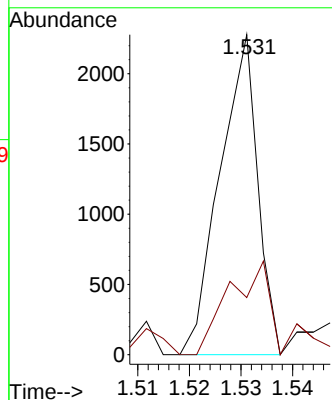
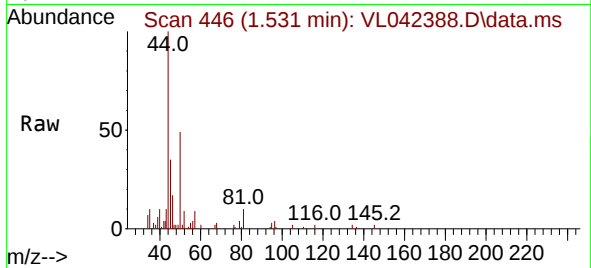




#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

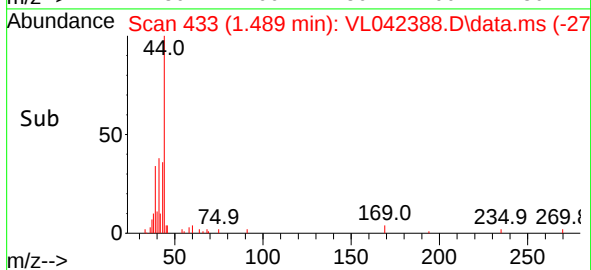
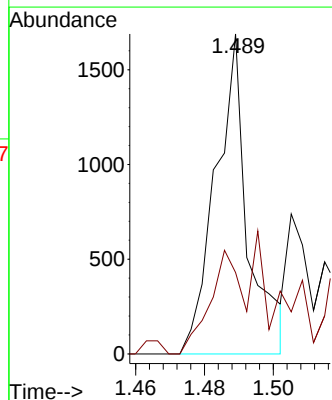
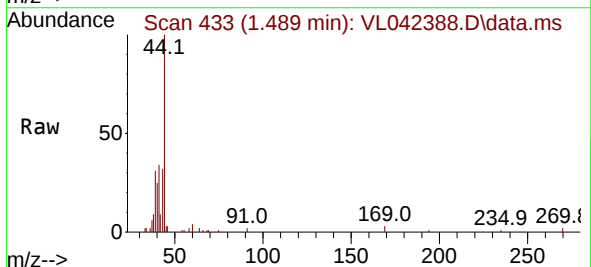
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

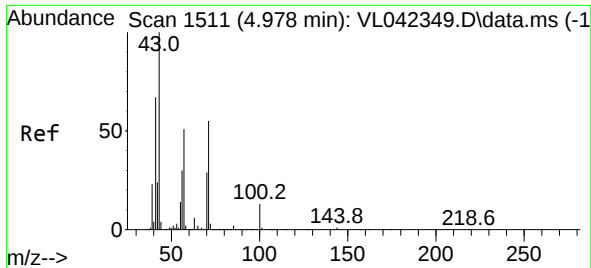
Tgt Ion: 50 Resp: 1157
Ion Ratio Lower Upper
50 100
52 17.9 24.7 37.1#



#9
Propene
Concen: 0.108 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 41 Resp: 1101
Ion Ratio Lower Upper
41 100
42 86.9 56.2 84.4#

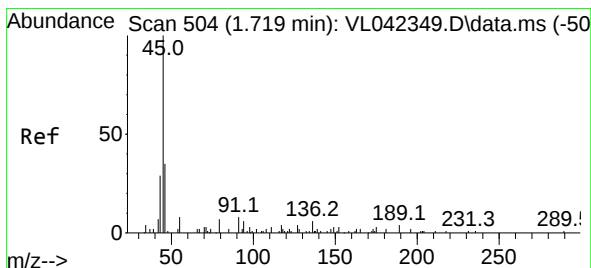
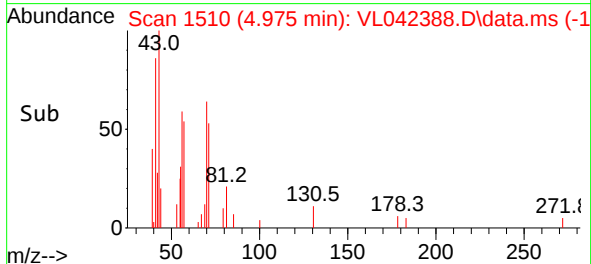
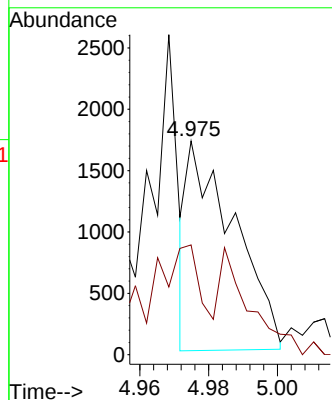
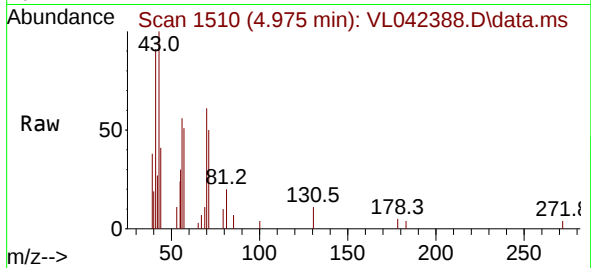




#10
Heptane
Concen: 0.057 ppbv
RT: 4.975 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

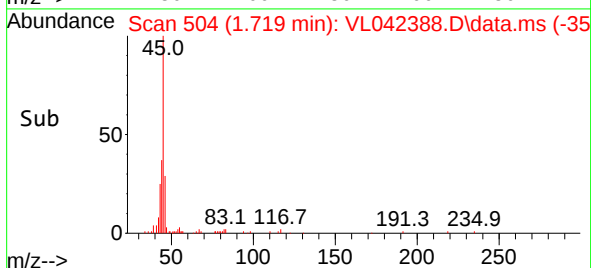
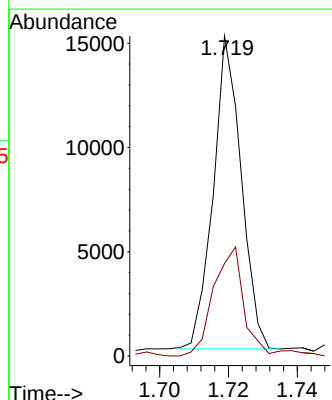
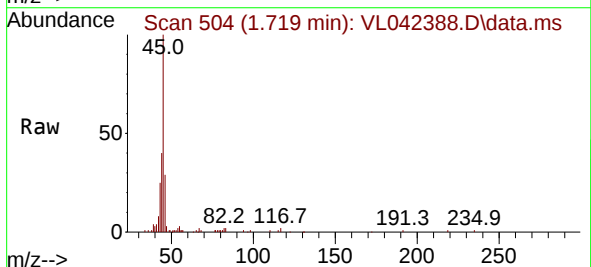
Instrument :
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ClientSampleId :
IA-B2-6-03312025DL2

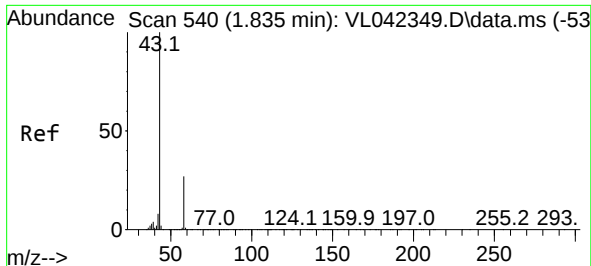
Tgt Ion: 43 Resp: 1622
Ion Ratio Lower Upper
43 100
57 103.4 39.9 59.9#



#13
Ethanol
Concen: 5.234 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 45 Resp: 8476
Ion Ratio Lower Upper
45 100
46 44.0 21.9 87.7

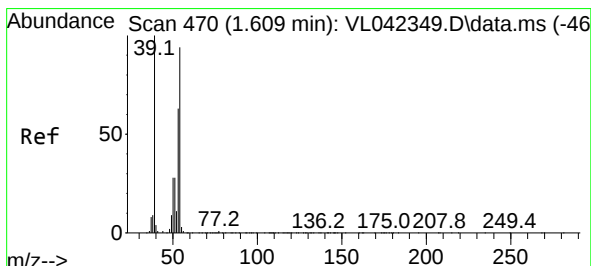
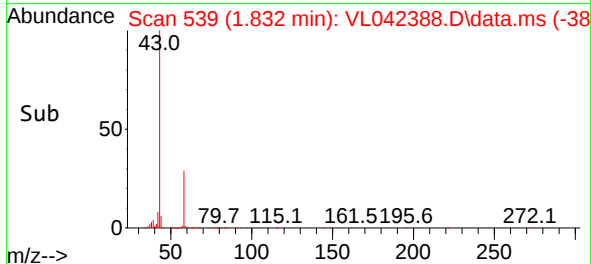
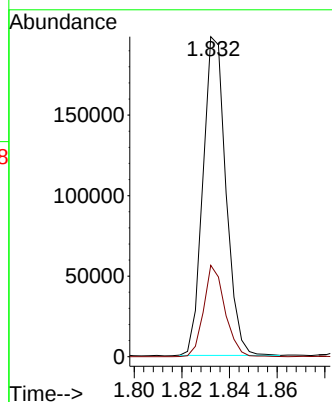
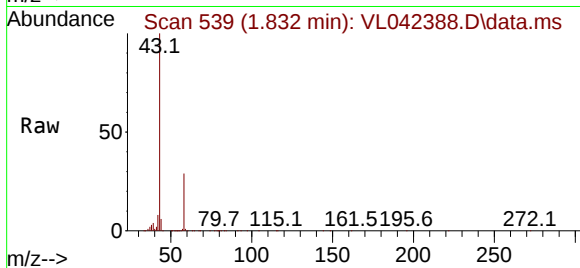




#15
Acetone
Concen: 6.098 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

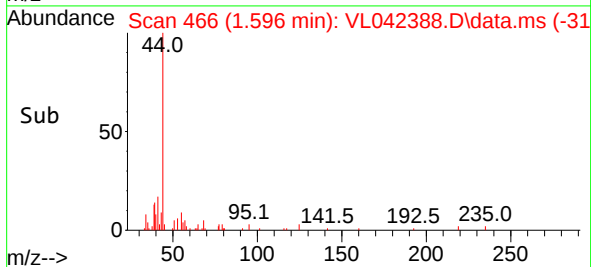
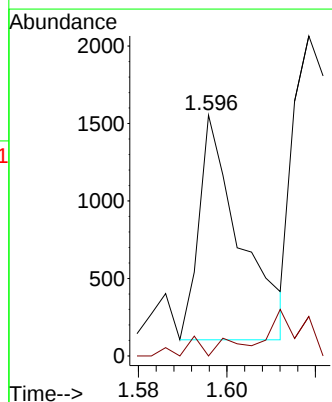
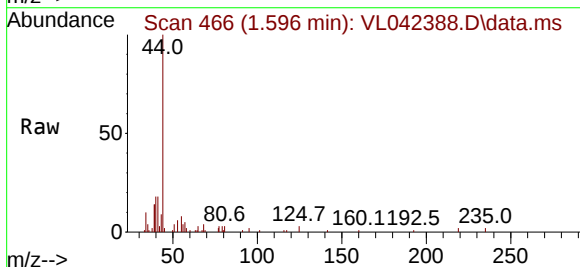
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

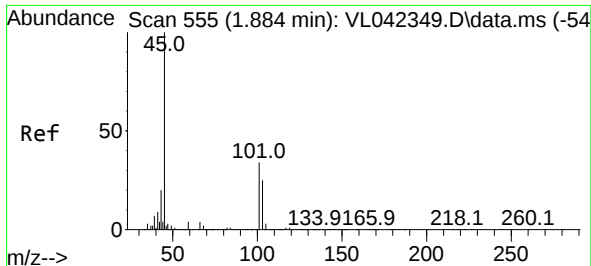
Tgt Ion: 43 Resp: 132763
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6



#16
1,3-Butadiene
Concen: 0.090 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.013 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 39 Resp: 936
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#

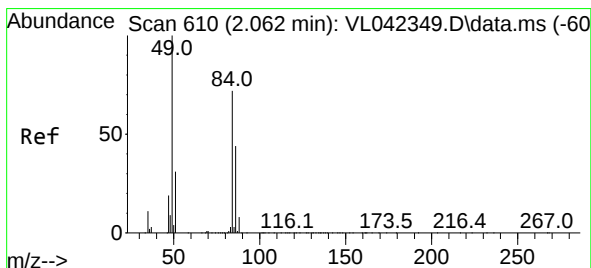
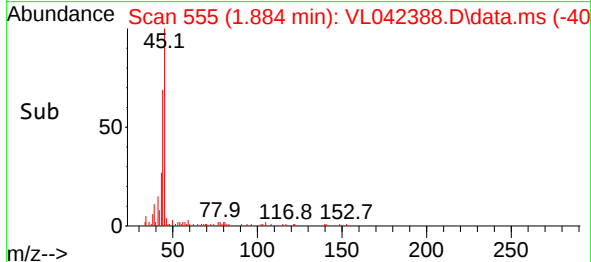
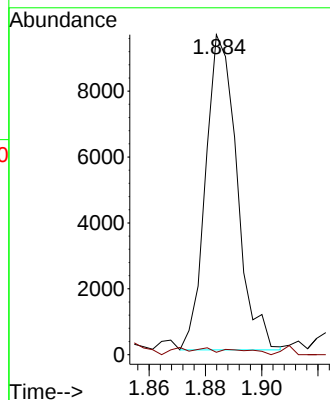
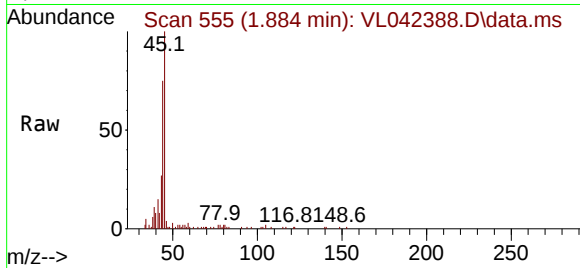




#19
Isopropyl Alcohol
Concen: 0.612 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

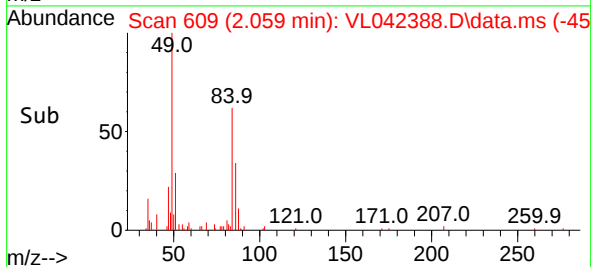
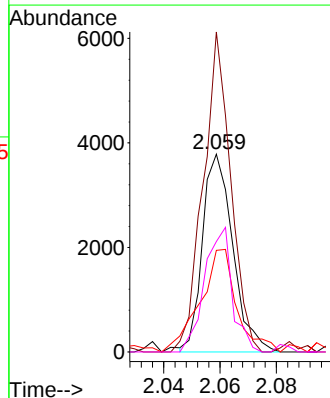
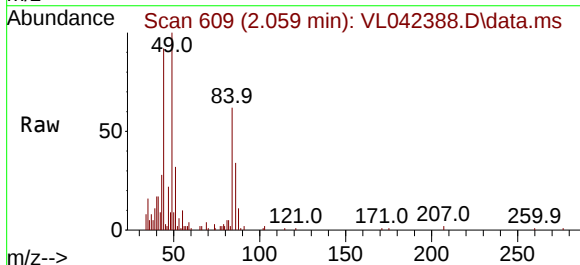
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

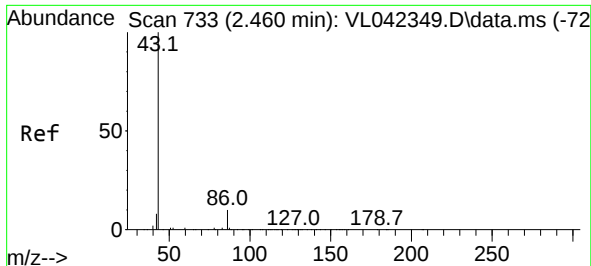
Tgt Ion: 45 Resp: 7402
Ion Ratio Lower Upper
45 100
58 482.1 34.5 51.7#



#20
Methylene Chloride
Concen: 0.332 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 84 Resp: 2832
Ion Ratio Lower Upper
84 100
49 159.8 111.6 167.4
51 47.1 35.1 52.7
86 55.8 48.9 73.3



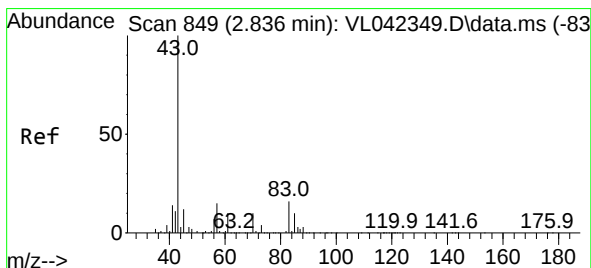
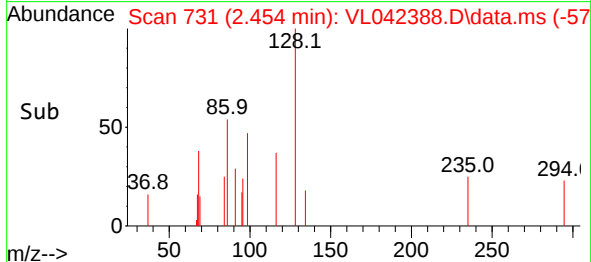
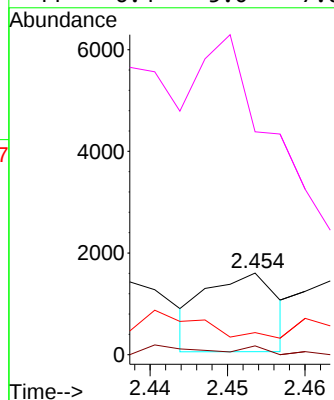
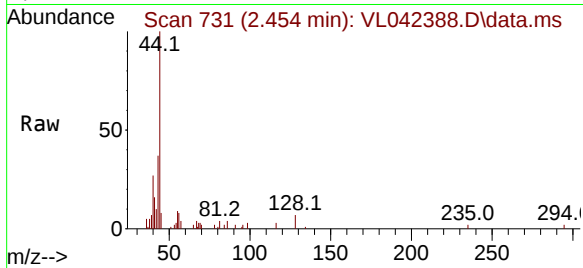


#23
 Vinyl Acetate
 Concen: 0.113 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VL042388.D
 Acq: 18 Apr 2025 13:12

Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-6-03312025DL2

Tgt Ion: 43 Resp: 996

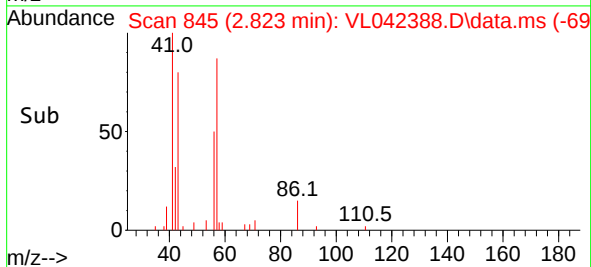
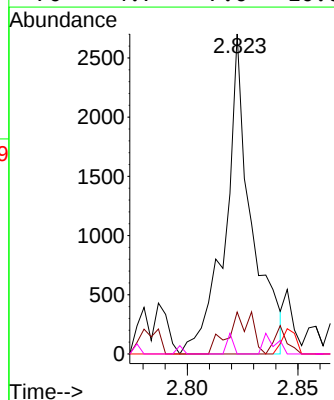
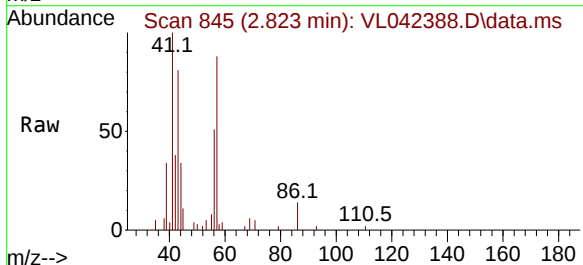
Ion	Ratio	Lower	Upper
43	100		
86	24.6	6.5	9.7#
42	15.9	7.8	11.8#
44	6.4	5.0	7.6

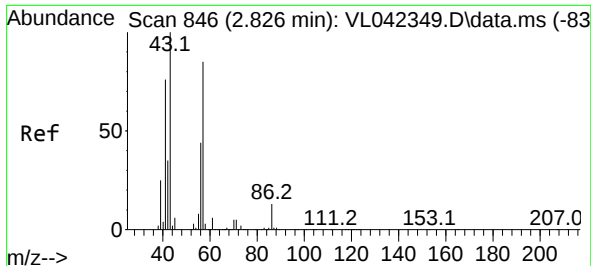


#25
 Ethyl Acetate
 Concen: 0.041 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.013 min
 Lab File: VL042388.D
 Acq: 18 Apr 2025 13:12

Tgt Ion: 43 Resp: 2191

Ion	Ratio	Lower	Upper
43	100		
45	16.5	8.3	12.5#
61	0.0	7.3	10.9#
70	4.7	7.0	10.6#

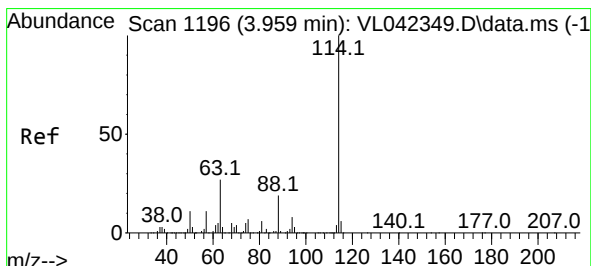
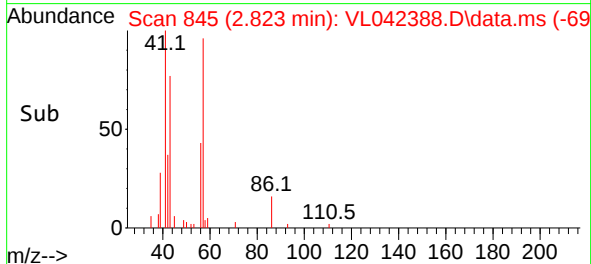
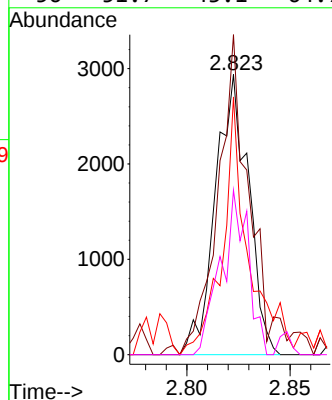
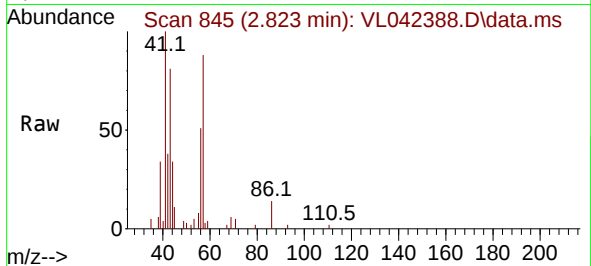




#26
Hexane
Concen: 0.150 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

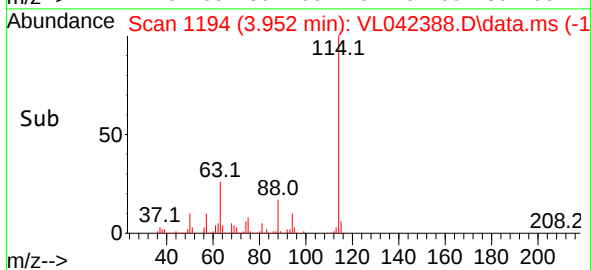
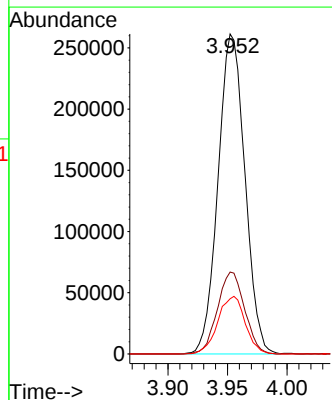
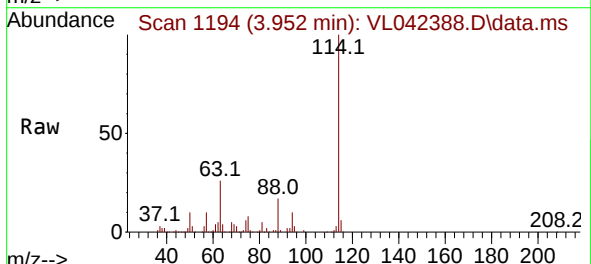
Instrument :
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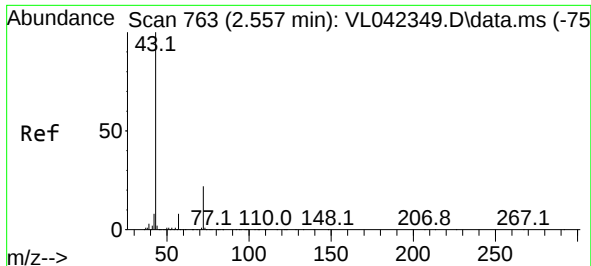
Tgt Ion: 57	Resp: 3262
Ion Ratio	Lower Upper
57	100
41	117.7 77.9 116.9#
43	95.9 208.4 312.6#
56	51.7 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 114	Resp: 409322
Ion Ratio	Lower Upper
114	100
63	25.9 21.8 32.6
88	18.4 15.5 23.3

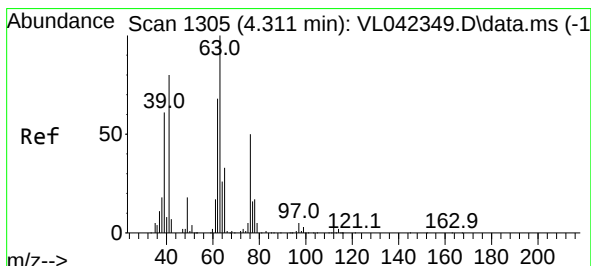
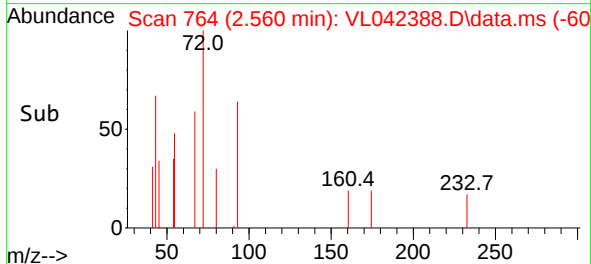
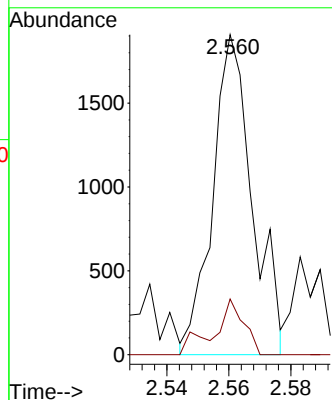
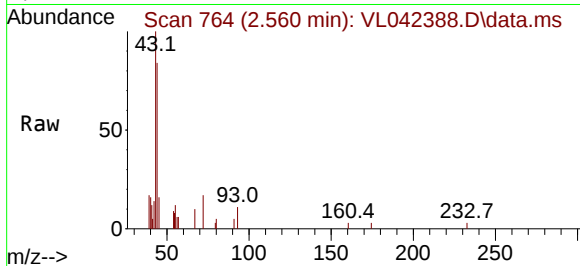




#34
2-Butanone
Concen: 0.052 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

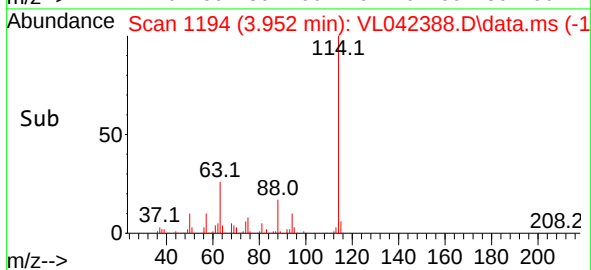
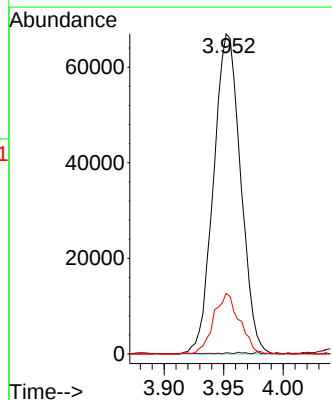
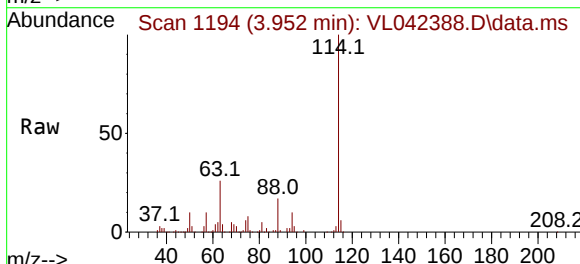
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

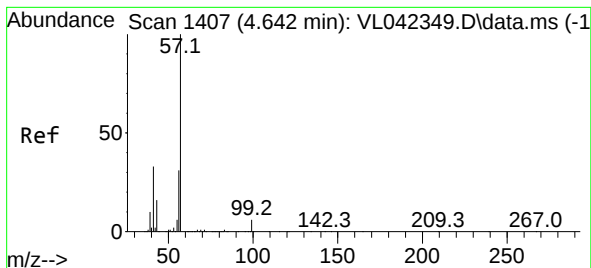
Tgt Ion: 43 Resp: 1698
Ion Ratio Lower Upper
43 100
72 13.2 18.2 27.2#



#39
1,2-Dichloropropane
Concen: 6.439 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 63 Resp: 105929
Ion Ratio Lower Upper
63 100
41 0.2 64.2 96.2#
62 18.9 54.3 81.5#





#44

2,2,4-Trimethylpentane

Concen: 0.210 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.003 min

Lab File: VL042388.D

Acq: 18 Apr 2025 13:12

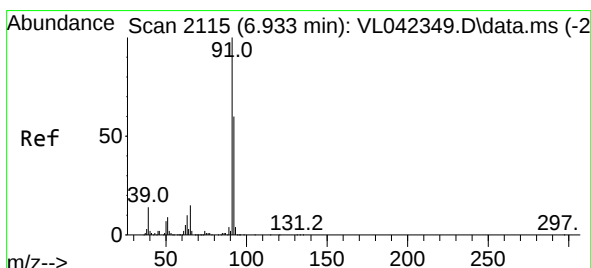
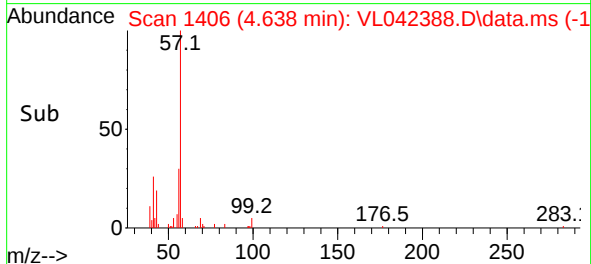
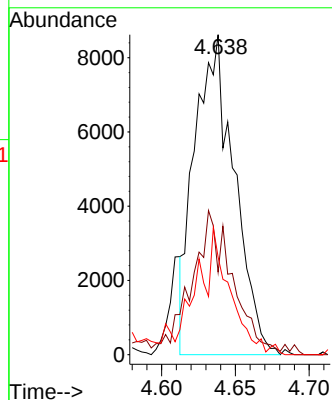
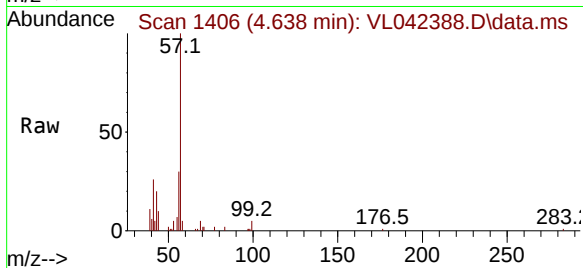
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025DL2

Tgt Ion:	57	Resp:	16039
Ion	Ratio	Lower	Upper
57	100		
41	50.5	27.2	40.8#
56	35.1	25.7	38.5



#53

Toluene

Concen: 0.686 ppbv

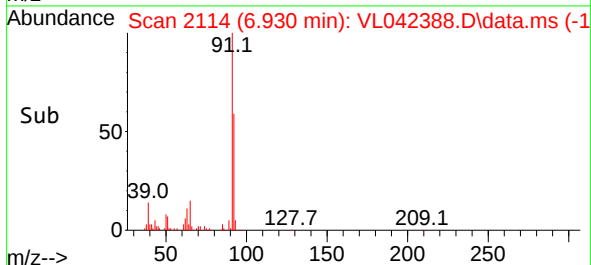
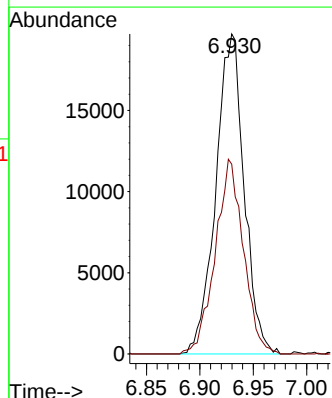
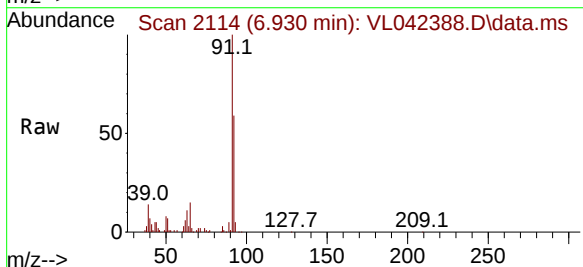
RT: 6.930 min Scan# 2114

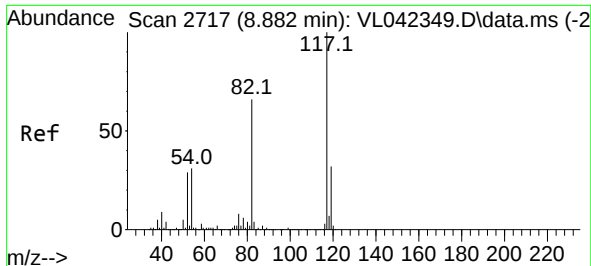
Delta R.T. -0.003 min

Lab File: VL042388.D

Acq: 18 Apr 2025 13:12

Tgt Ion:	91	Resp:	36363
Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4

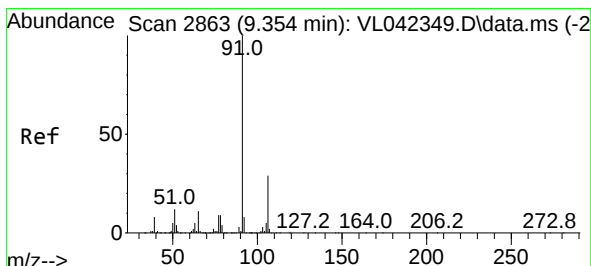
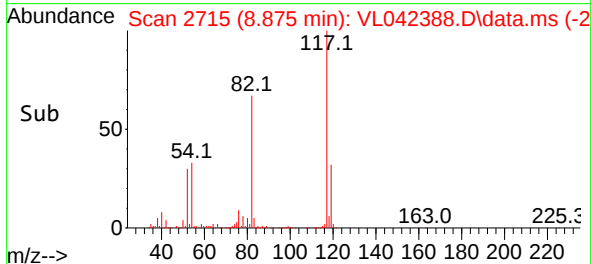
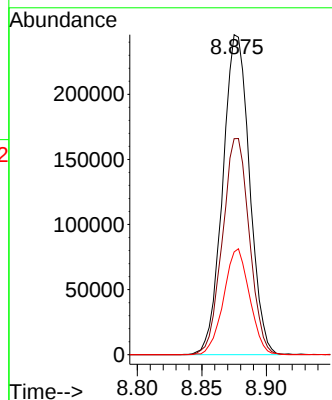
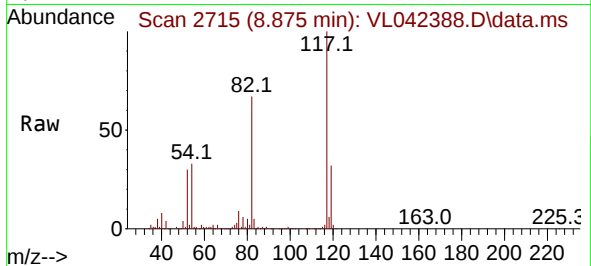




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

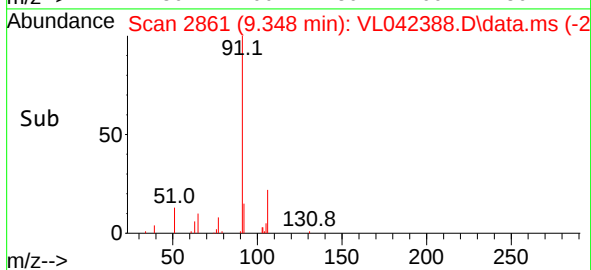
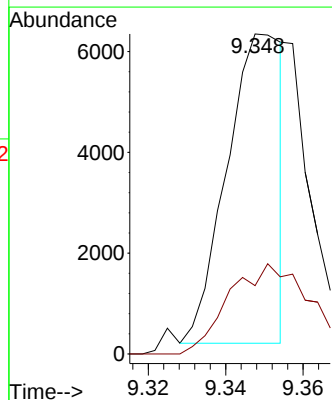
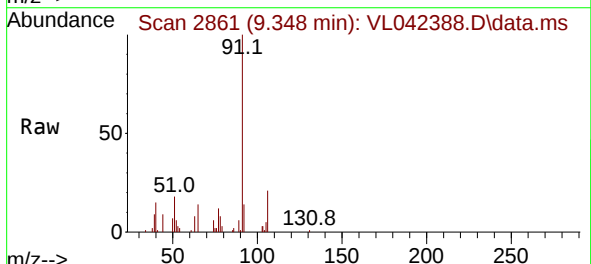
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

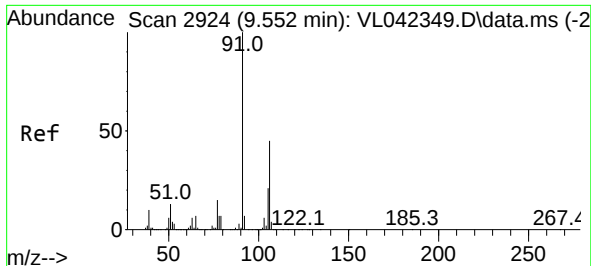
Tgt Ion:117 Resp: 354583
Ion Ratio Lower Upper
117 100
82 67.7 57.8 86.6
119 32.1 25.2 37.8



#58
Ethyl Benzene
Concen: 0.087 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 6095
Ion Ratio Lower Upper
91 100
106 22.1 23.0 34.4#





#59

m/p-Xylene

Concen: 0.494 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.026 min

Lab File: VL042388.D

Acq: 18 Apr 2025 13:12

Instrument :

MSVOA_L

ClientSampleId :

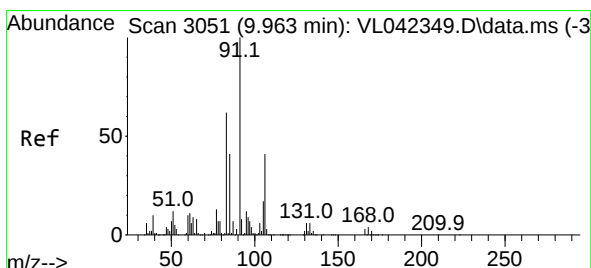
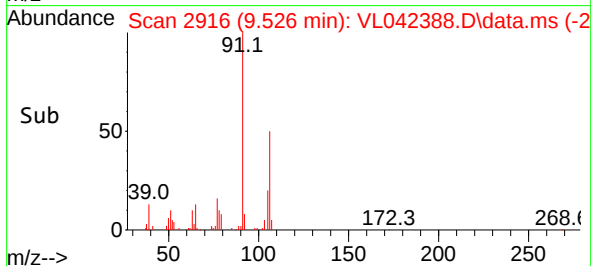
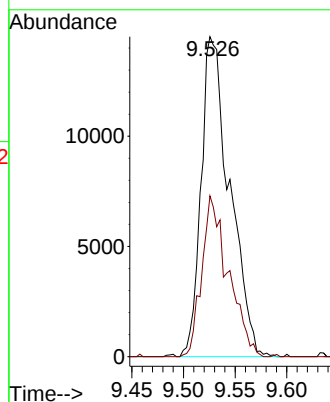
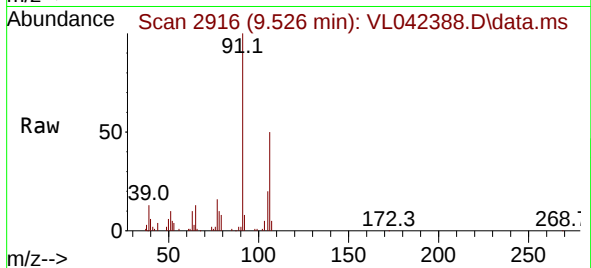
IA-B2-6-03312025DL2

Tgt Ion: 91 Resp: 27952

Ion Ratio Lower Upper

91 100

106 46.6 35.4 53.2



#60

o-Xylene

Concen: 0.166 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.006 min

Lab File: VL042388.D

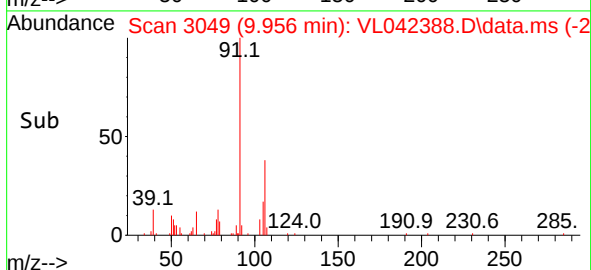
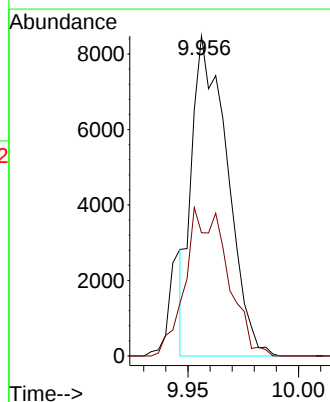
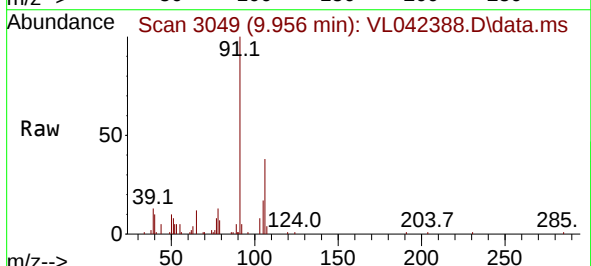
Acq: 18 Apr 2025 13:12

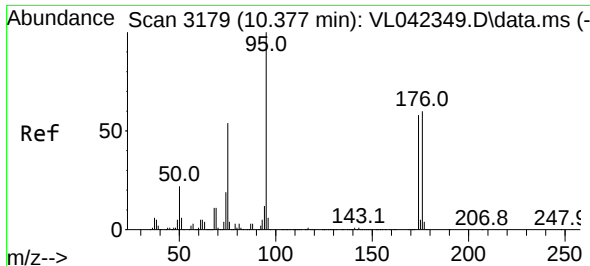
Tgt Ion: 91 Resp: 9433

Ion Ratio Lower Upper

91 100

106 55.1 21.1 63.4

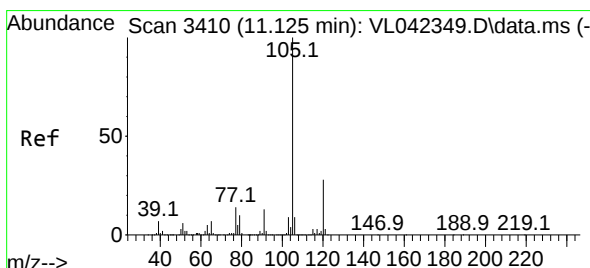
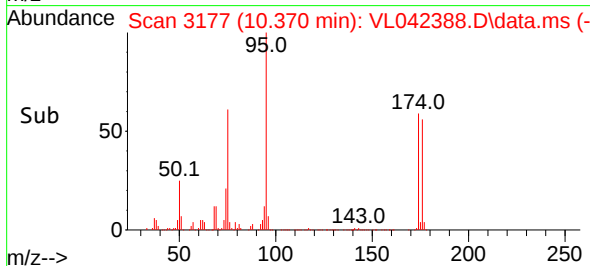
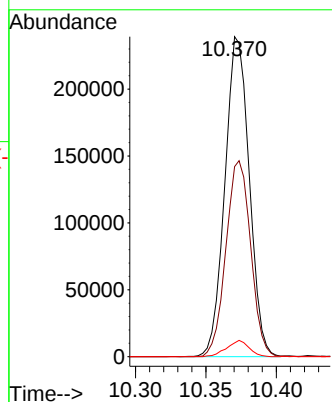
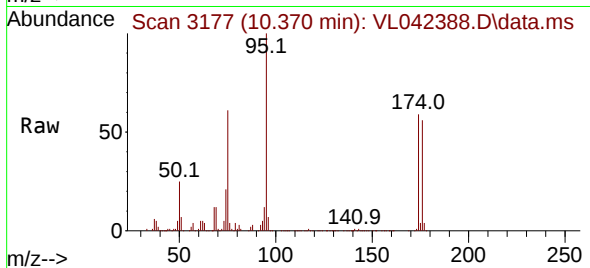




#68
1-Bromo-4-Fluorobenzene
Concen: 9.894 ppbv
RT: 10.370 min Scan# 3179
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

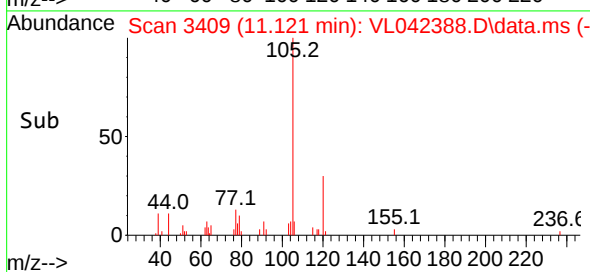
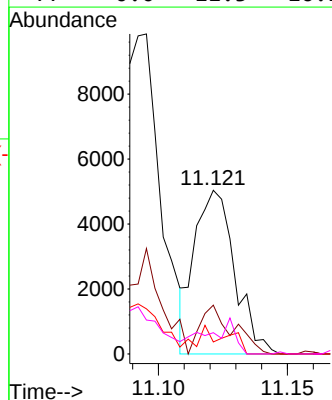
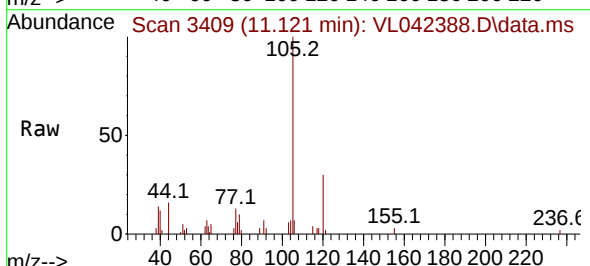
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

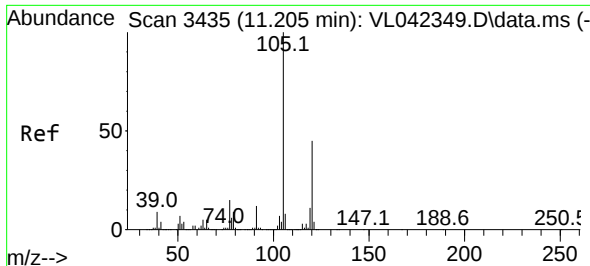
Tgt Ion: 95 Resp: 288297
Ion Ratio Lower Upper
95 100
174 62.2 48.5 72.7
175 4.7 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.078 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:105 Resp: 5468
Ion Ratio Lower Upper
105 100
120 24.8 23.2 34.8
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#

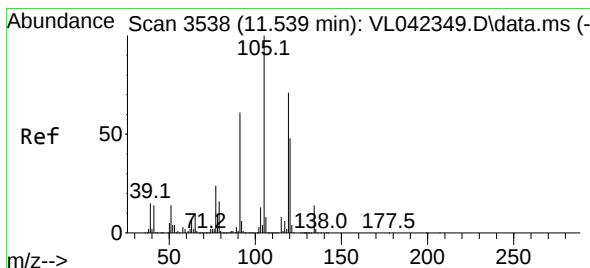
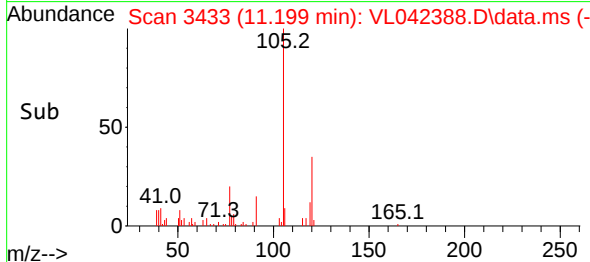
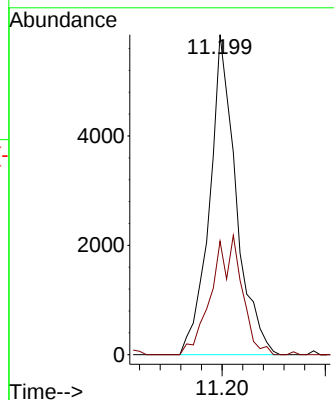
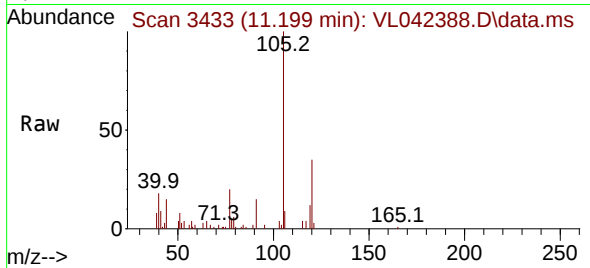




#73
1,3,5-Trimethylbenzene
Concen: 0.085 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion:105 Resp: 5228
Ion Ratio Lower Upper
105 100
120 35.4 35.6 53.4#



#74
1,2,4-Trimethylbenzene
Concen: 0.243 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:105 Resp: 17448
Ion Ratio Lower Upper
105 100
120 34.1 38.1 57.1#
91 18.1 48.8 73.2#
77 13.5 19.0 28.4#

