

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042456.D
 Acq On : 29 Apr 2025 21:58
 Operator : SY/MD
 Sample : Q1908-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

Quant Time: May 01 07:05:42 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	2.790	49	111841	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	295318	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	246635	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	229841	11.341	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.400%

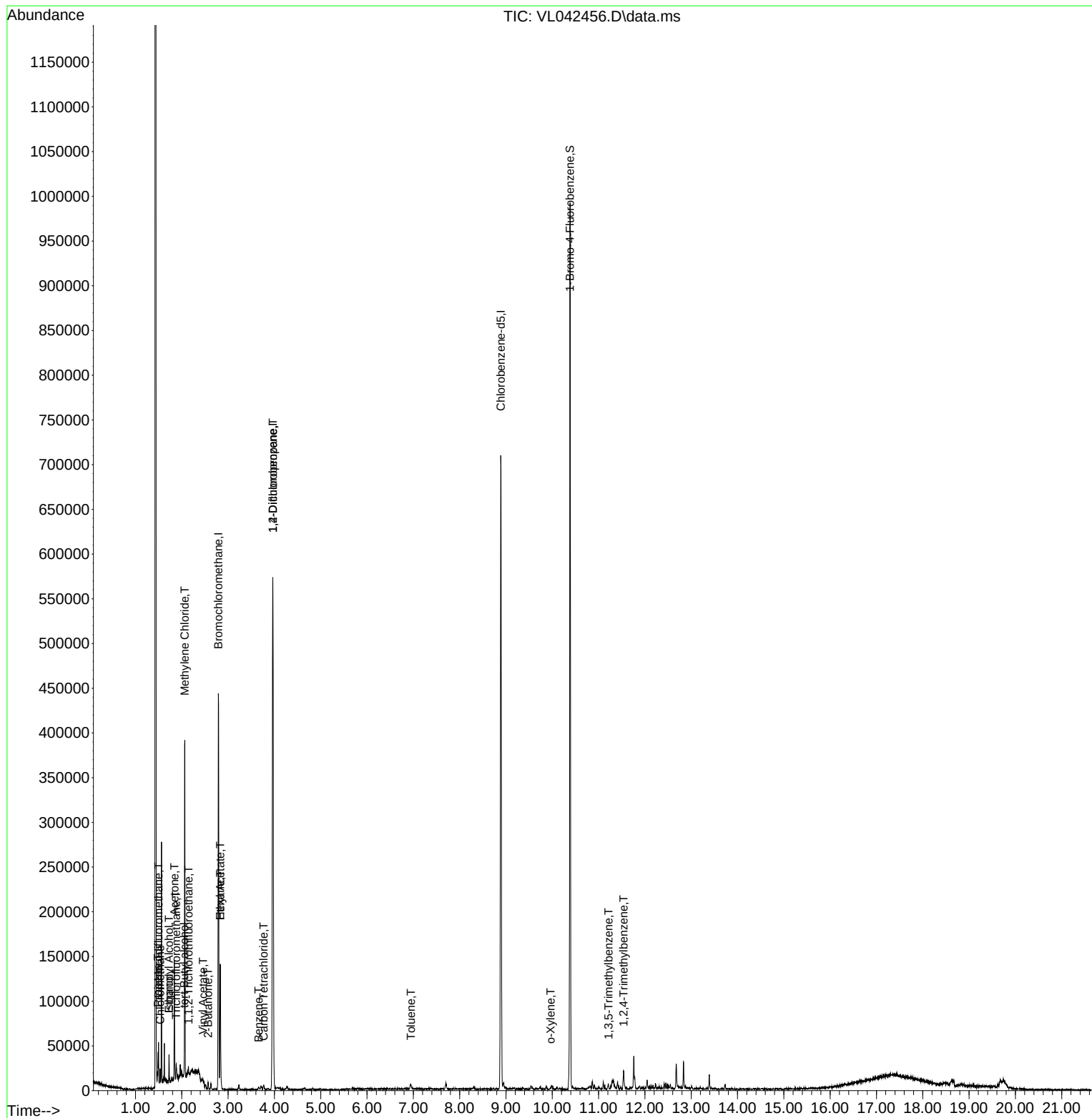
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9601	0.486	ppbv	94
4) Chloromethane	1.531	50	3721	0.476	ppbv #	81
9) Propene	1.489	41	2343	0.273	ppbv	93
11) Trichlorofluoromethane	1.877	101	4603	0.245	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	946	0.062	ppbv	98
13) Ethanol	1.722	45	10654	7.822	ppbv #	24
15) Acetone	1.839	43	57407	3.136	ppbv	97
17) tert-Butyl alcohol	2.052	59	959	0.042	ppbv #	71
19) Isopropyl Alcohol	1.722	45	10654	1.048	ppbv #	52
20) Methylene Chloride	2.065	84	57764	8.056	ppbv	93
23) Vinyl Acetate	2.457	43	1592	0.215	ppbv #	1
25) Ethyl Acetate	2.829	43	21953	0.486	ppbv #	82
26) Hexane	2.829	57	28892	1.582	ppbv #	31
34) 2-Butanone	2.567	43	4598	0.197	ppbv	98
35) Carbon Tetrachloride	3.768	117	1519	0.057	ppbv #	85
36) Benzene	3.658	78	1247	0.039	ppbv #	83
39) 1,2-Dichloropropane	3.965	63	87069	7.335	ppbv #	21
53) Toluene	6.946	91	2460	0.064	ppbv #	72
60) o-Xylene	9.966	91	1209	0.030	ppbv	88
73) 1,3,5-Trimethylbenzene	11.212	105	1755	0.041	ppbv #	69
74) 1,2,4-Trimethylbenzene	11.539	105	5427	0.109	ppbv #	59

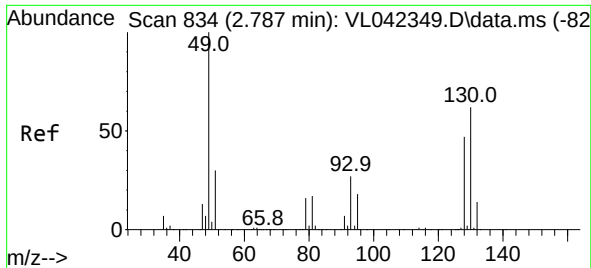
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042456.D
Acq On : 29 Apr 2025 21:58
Operator : SY/MD
Sample : Q1908-02
Misc : 400mL/MSVOA_L
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
B-2

Quant Time: May 01 07:05:42 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.790 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

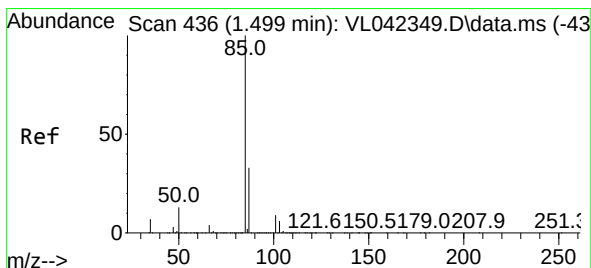
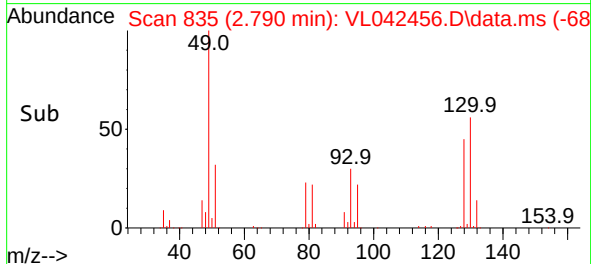
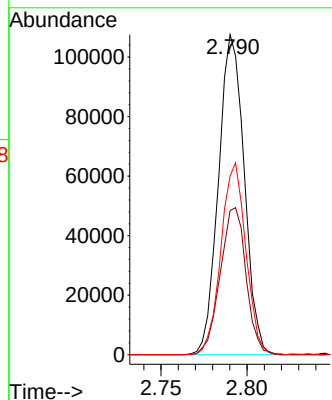
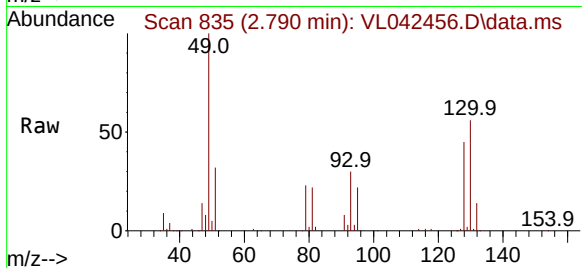
Tgt Ion: 49 Resp: 111841

Ion Ratio Lower Upper

49 100

128 46.1 22.8 68.4

130 58.0 29.3 88.0



#2

Dichlorodifluoromethane

Concen: 0.486 ppbv

RT: 1.499 min Scan# 436

Delta R.T. -0.000 min

Lab File: VL042456.D

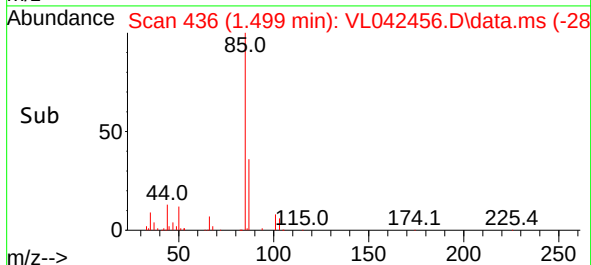
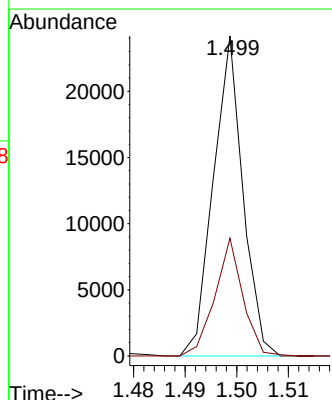
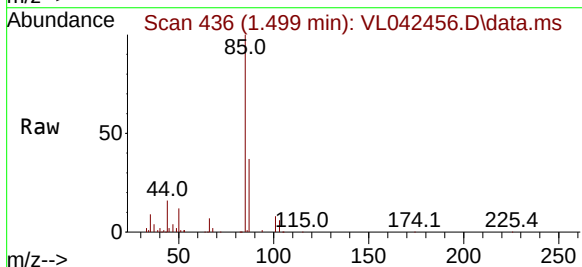
Acq: 29 Apr 2025 21:58

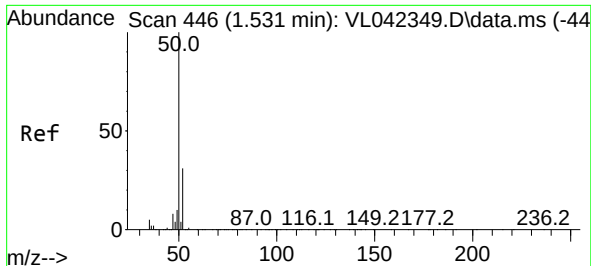
Tgt Ion: 85 Resp: 9601

Ion Ratio Lower Upper

85 100

87 36.8 26.6 39.8

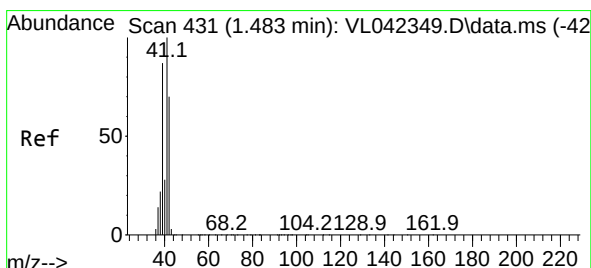
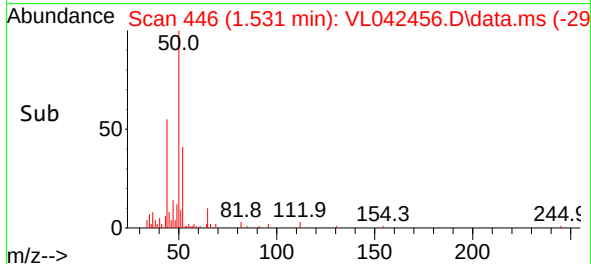
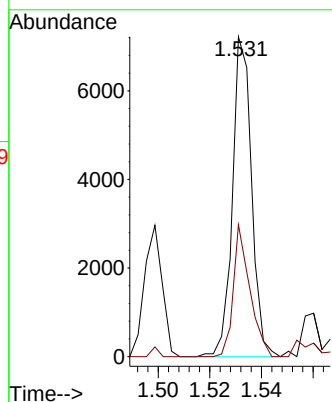
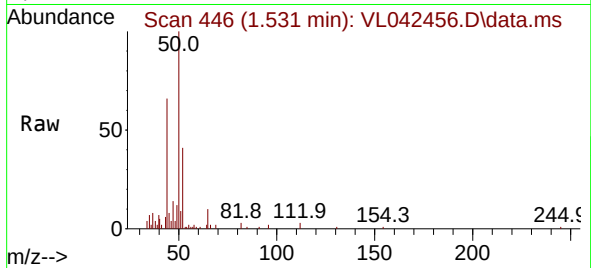




#4
Chloromethane
Concen: 0.476 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

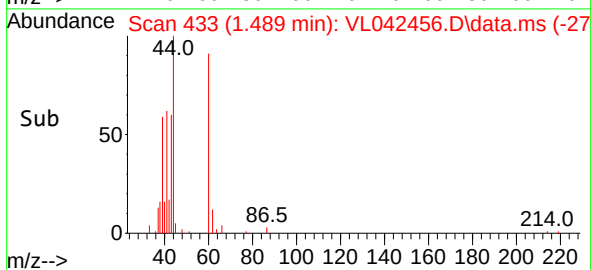
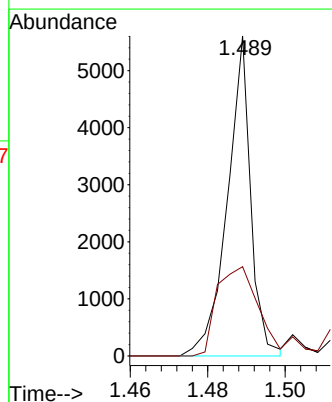
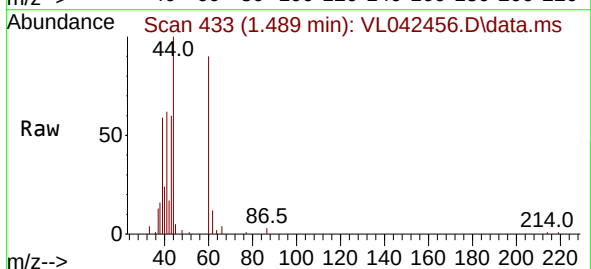
Instrument :
MSVOA_L
ClientSampleId :
B-2

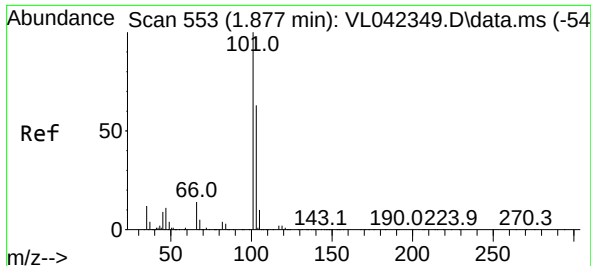
Tgt Ion: 50 Resp: 3721
Ion Ratio Lower Upper
50 100
52 41.2 24.7 37.1#



#9
Propene
Concen: 0.273 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 41 Resp: 2343
Ion Ratio Lower Upper
41 100
42 64.7 56.2 84.4

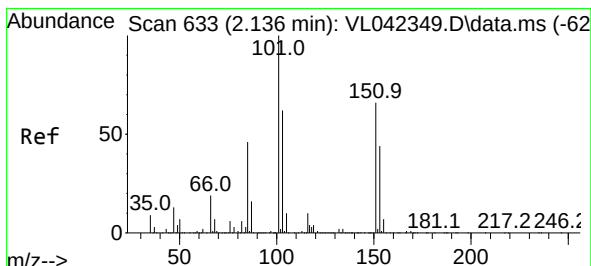
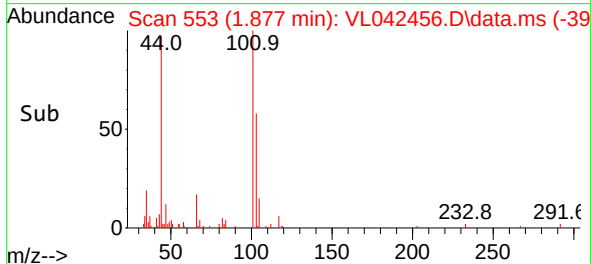
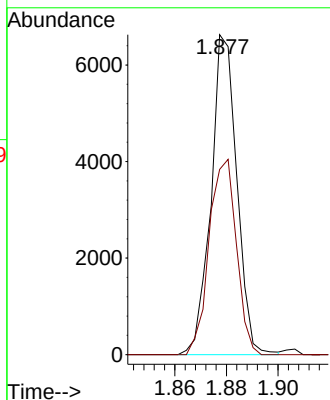
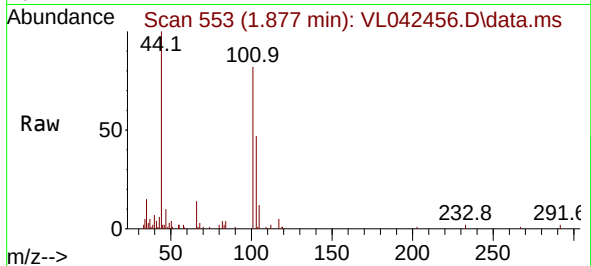




#11
 Trichlorofluoromethane
 Concen: 0.245 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042456.D
 Acq: 29 Apr 2025 21:58

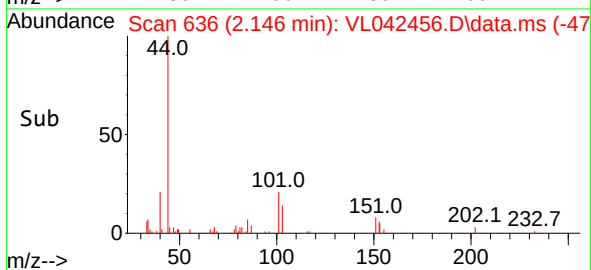
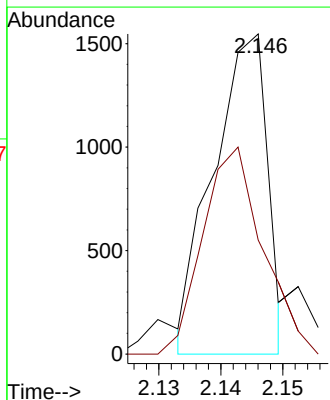
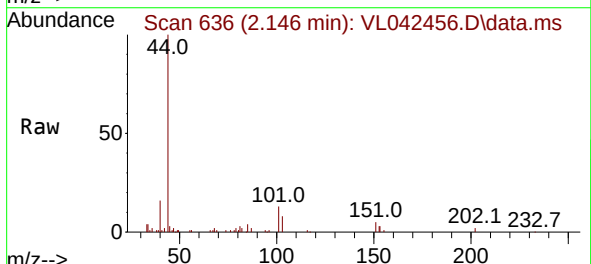
Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

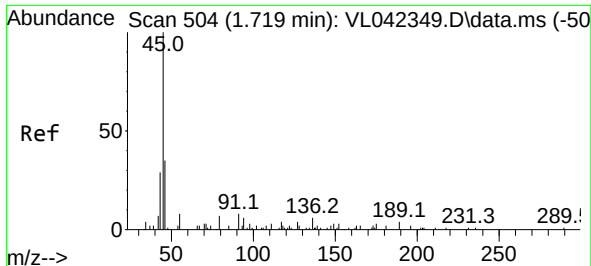
Tgt Ion:101 Resp: 4603
 Ion Ratio Lower Upper
 101 100
 103 57.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.062 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.010 min
 Lab File: VL042456.D
 Acq: 29 Apr 2025 21:58

Tgt Ion:101 Resp: 946
 Ion Ratio Lower Upper
 101 100
 151 73.0 57.0 85.6

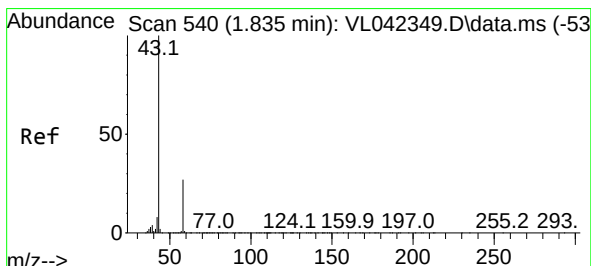
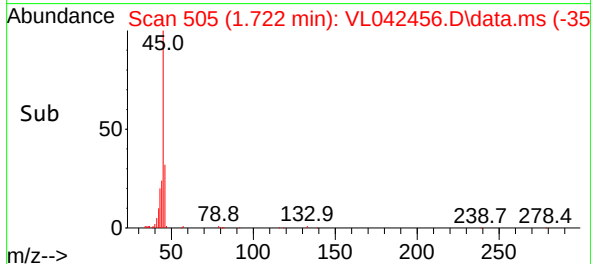
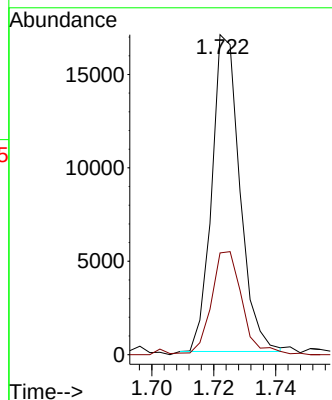
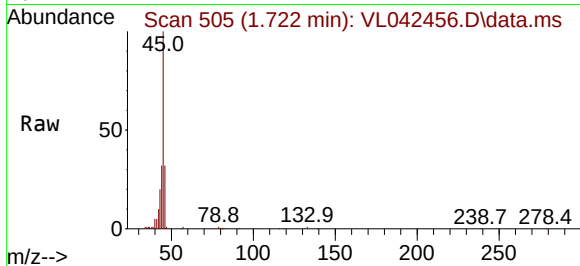




#13
Ethanol
Concen: 7.822 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

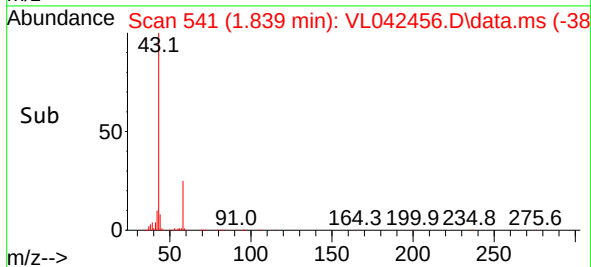
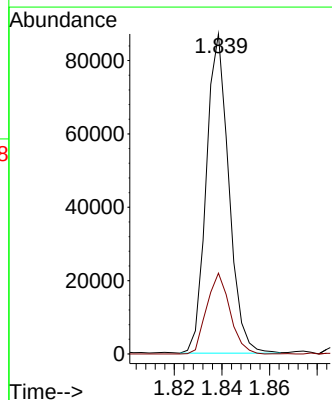
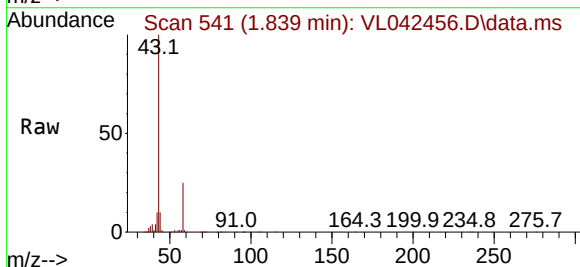
Instrument :
MSVOA_1
ClientSampleId :
B-2

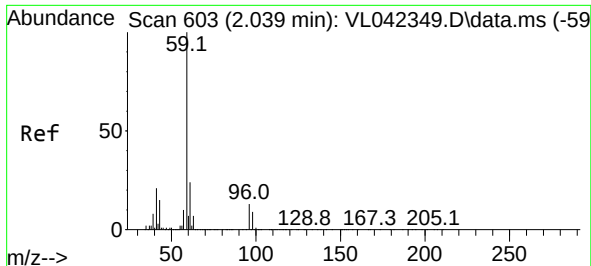
Tgt Ion: 45 Resp: 10654
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 3.136 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 43 Resp: 57407
Ion Ratio Lower Upper
43 100
58 26.2 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.042 ppbv

RT: 2.052 min Scan# 603

Delta R.T. 0.013 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_1

ClientSampleId :

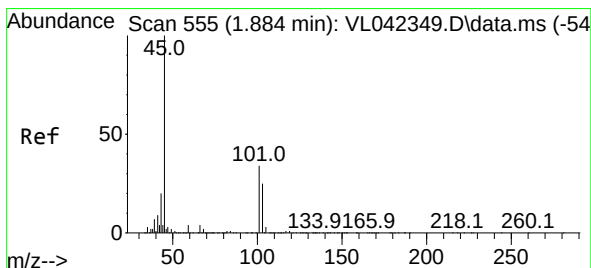
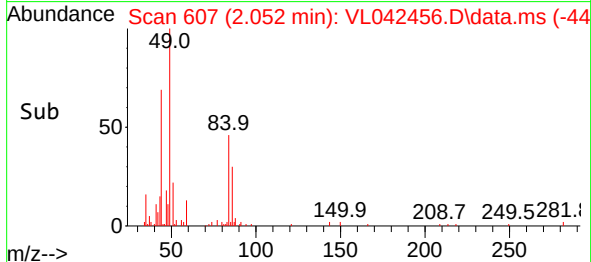
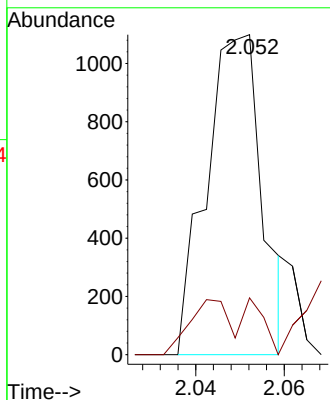
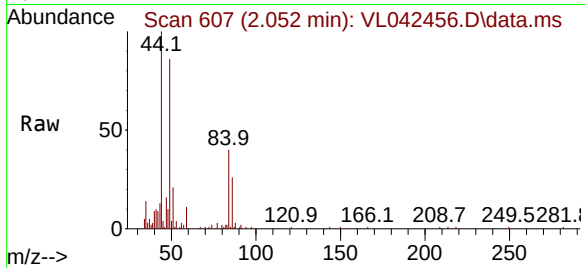
B-2

Tgt Ion: 59 Resp: 959

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.048 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.162 min

Lab File: VL042456.D

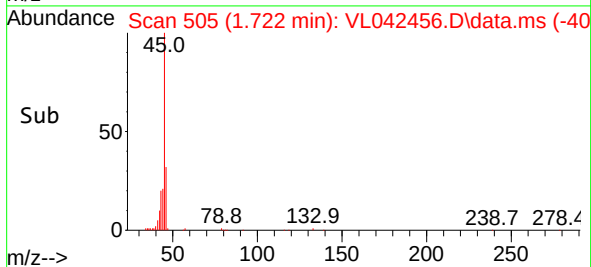
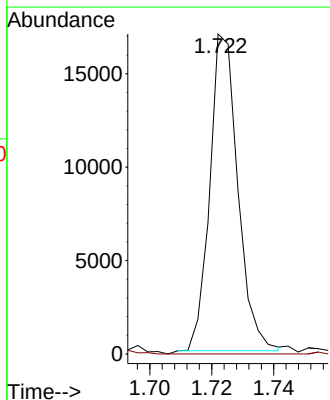
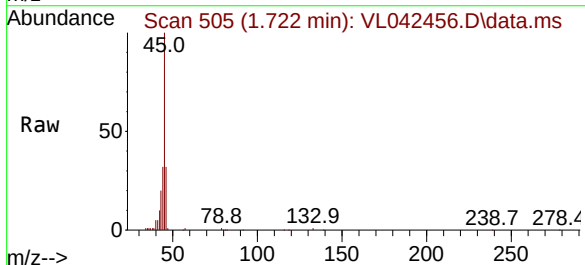
Acq: 29 Apr 2025 21:58

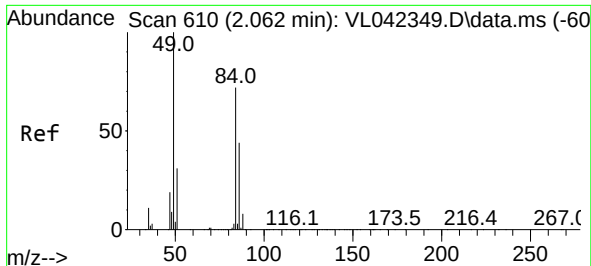
Tgt Ion: 45 Resp: 10654

Ion Ratio Lower Upper

45 100

58 12.4 34.5 51.7#

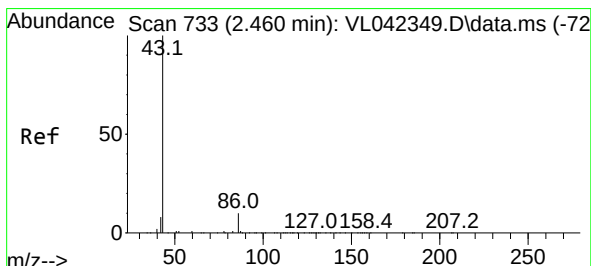
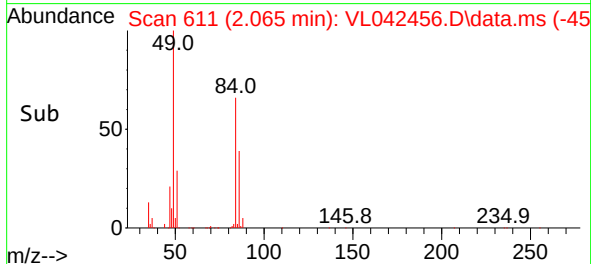
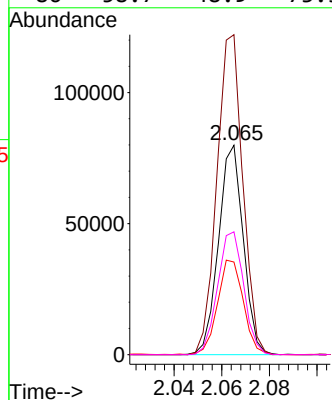
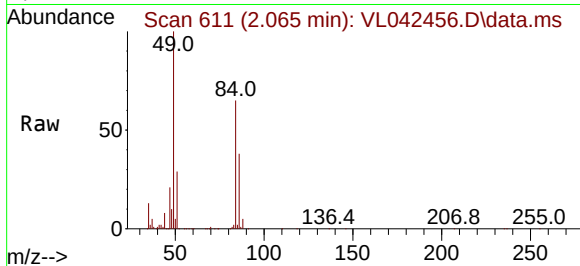




#20
Methylene Chloride
Concen: 8.056 ppbv
RT: 2.065 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

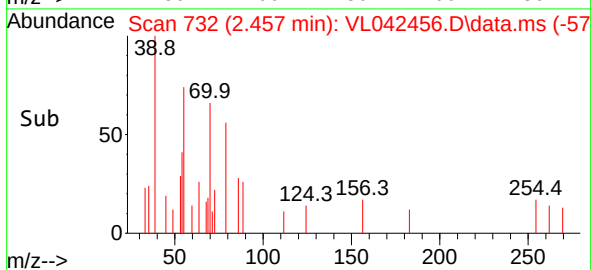
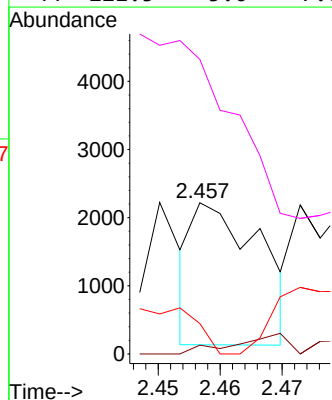
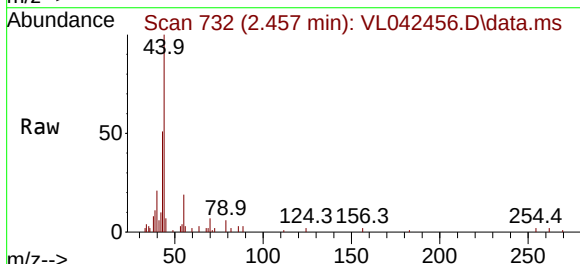
Instrument :
MSVOA_L
ClientSampleId :
B-2

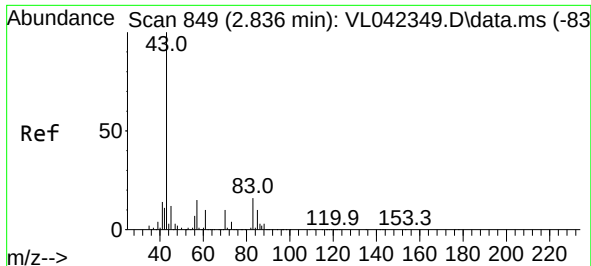
Tgt Ion:	84	Resp:	57764
Ion	Ratio	Lower	Upper
84	100		
49	152.8	111.6	167.4
51	44.1	35.1	52.7
86	58.7	48.9	73.3



#23
Vinyl Acetate
Concen: 0.215 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion:	43	Resp:	1592
Ion	Ratio	Lower	Upper
43	100		
86	12.6	6.5	9.7#
42	0.0	7.8	11.8#
44	221.5	5.0	7.6#

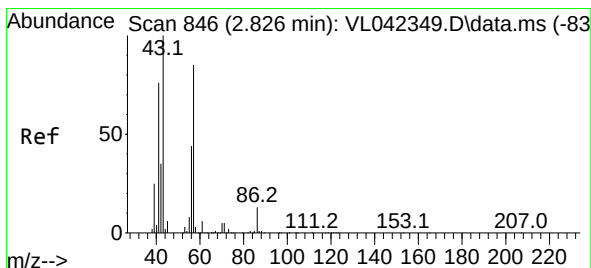
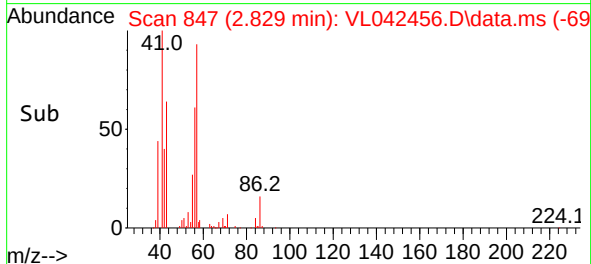
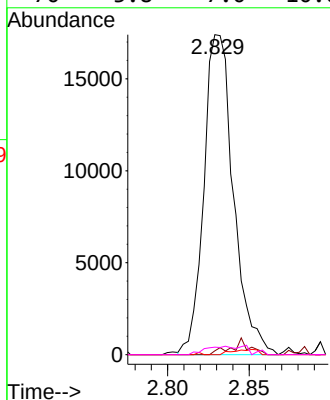
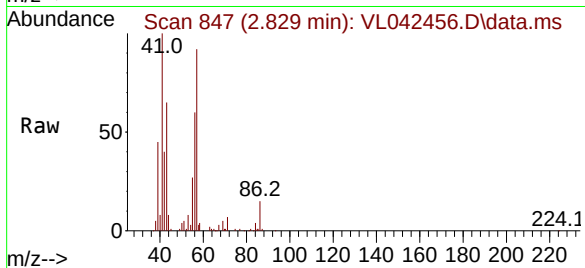




#25
Ethyl Acetate
Concen: 0.486 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.007 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

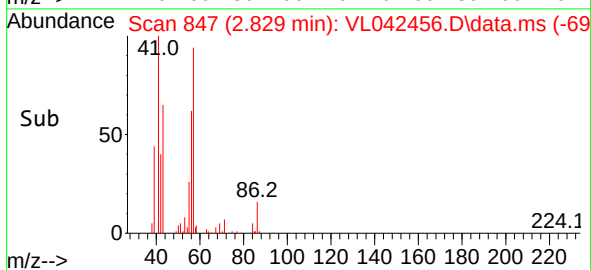
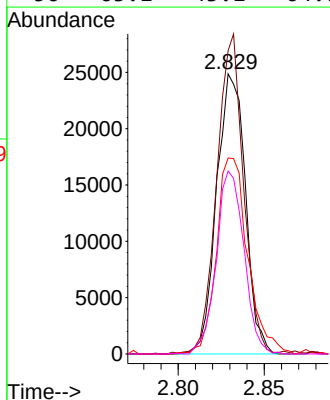
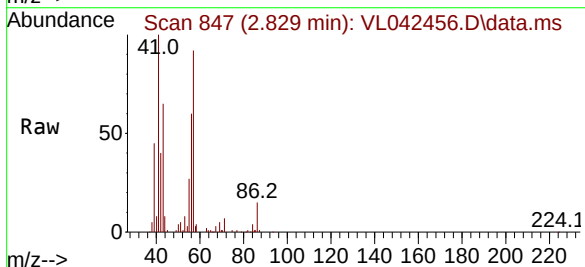
Instrument :
MSVOA_L
ClientSampleId :
B-2

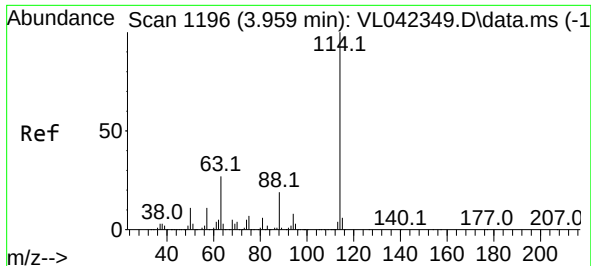
Tgt Ion:	43	Resp:	21953
Ion	Ratio	Lower	Upper
43	100		
45	3.1	8.3	12.5#
61	1.4	7.3	10.9#
70	3.8	7.0	10.6#



#26
Hexane
Concen: 1.582 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion:	57	Resp:	28892
Ion	Ratio	Lower	Upper
57	100		
41	107.2	77.9	116.9
43	77.9	208.4	312.6#
56	63.1	43.1	64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

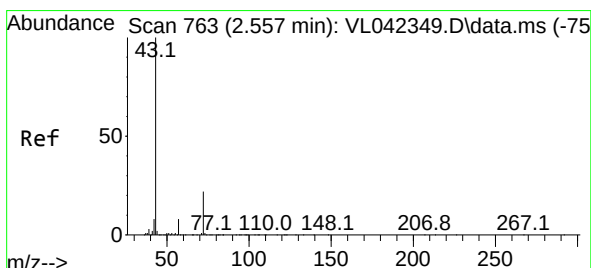
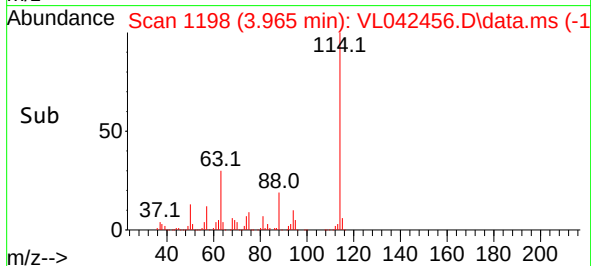
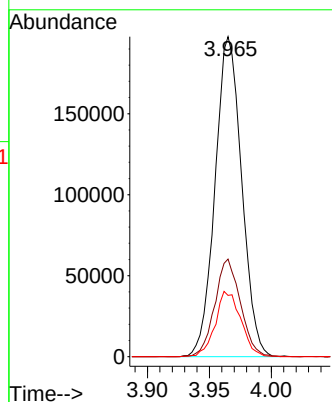
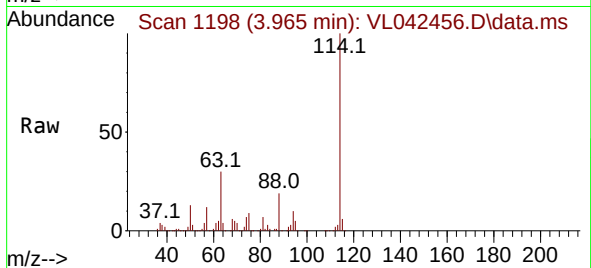
Tgt Ion:114 Resp: 295318

Ion Ratio Lower Upper

114 100

63 29.6 21.8 32.6

88 19.6 15.5 23.3



#34

2-Butanone

Concen: 0.197 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.010 min

Lab File: VL042456.D

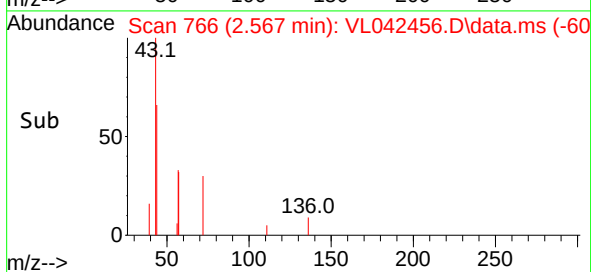
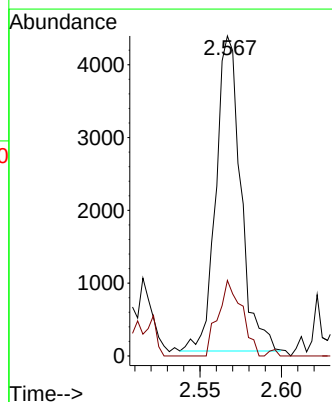
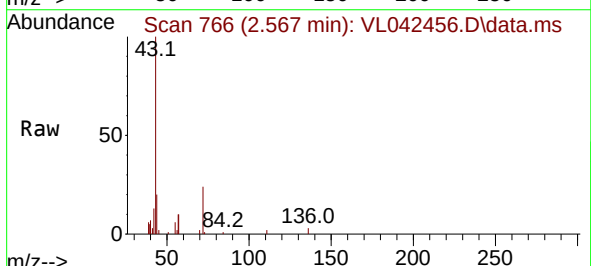
Acq: 29 Apr 2025 21:58

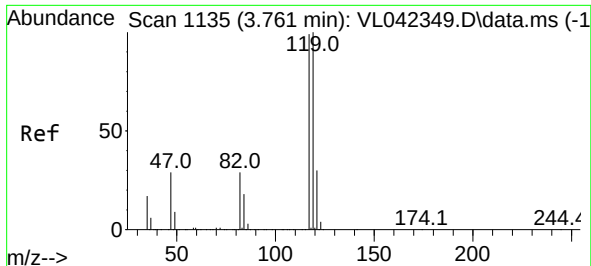
Tgt Ion: 43 Resp: 4598

Ion Ratio Lower Upper

43 100

72 23.4 18.2 27.2

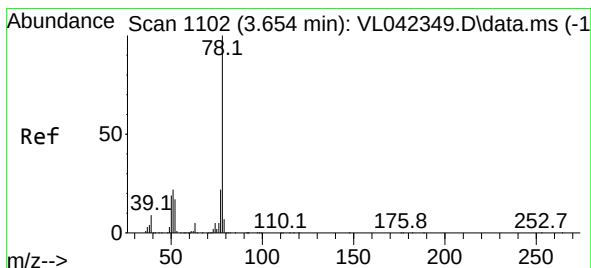
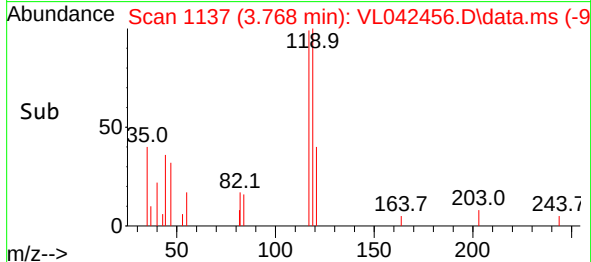
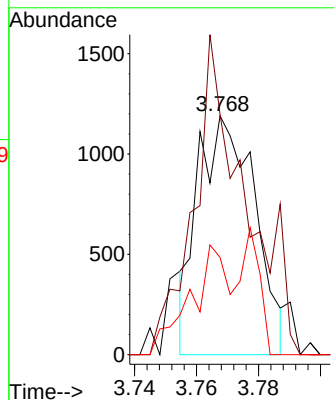
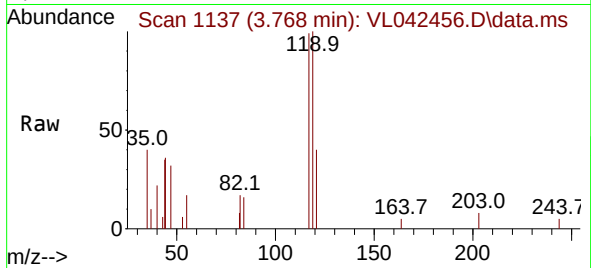




#35
Carbon Tetrachloride
Concen: 0.057 ppbv
RT: 3.768 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

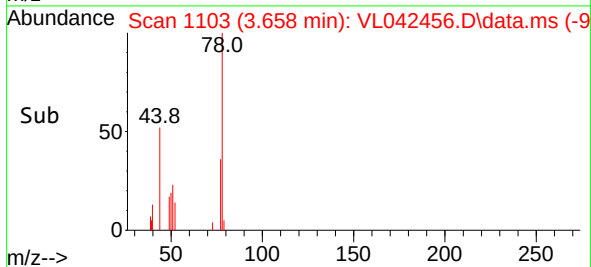
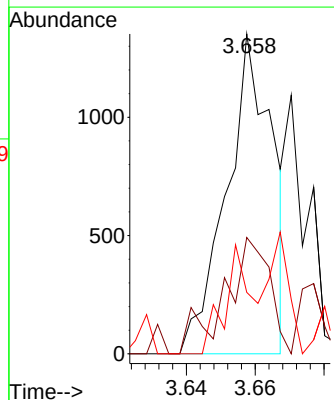
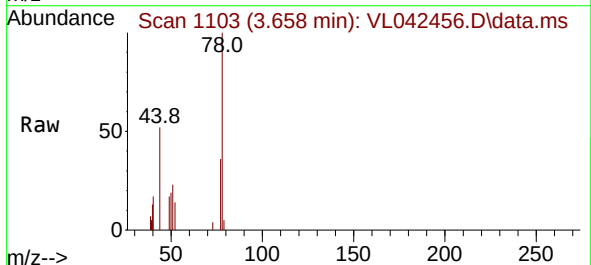
Instrument :
MSVOA_L
ClientSampleId :
B-2

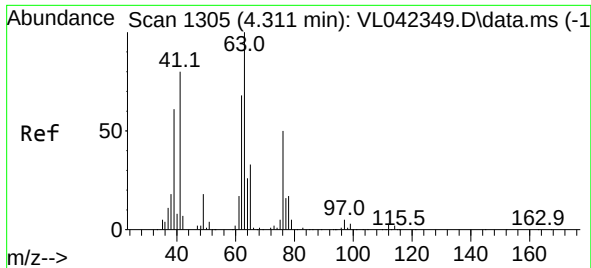
Tgt Ion:117 Resp: 1519
Ion Ratio Lower Upper
117 100
119 91.8 80.5 120.7
121 50.6 24.2 36.2#



#36
Benzene
Concen: 0.039 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 78 Resp: 1247
Ion Ratio Lower Upper
78 100
77 36.4 17.4 26.0#
50 19.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 7.335 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

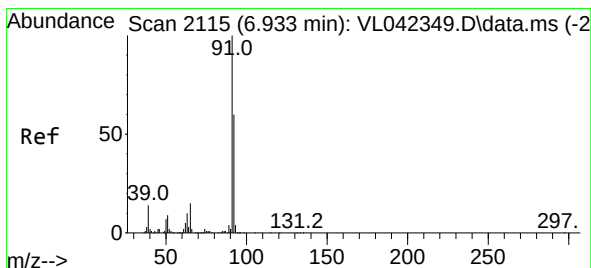
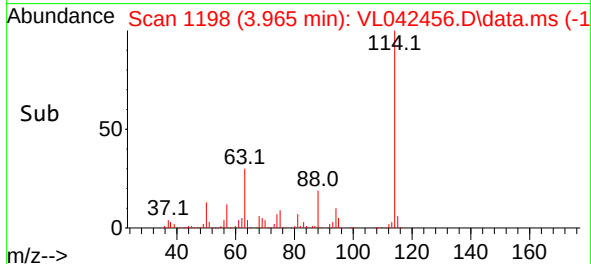
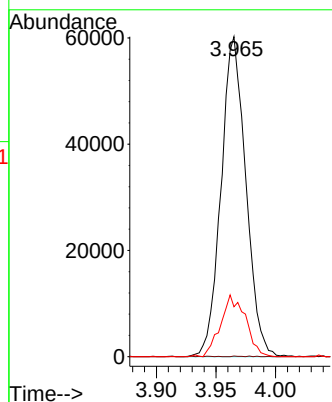
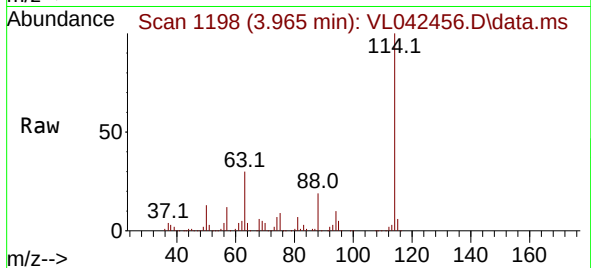
Tgt Ion: 63 Resp: 87069

Ion Ratio Lower Upper

63 100

41 0.2 64.2 96.2#

62 15.6 54.3 81.5#



#53

Toluene

Concen: 0.064 ppbv

RT: 6.946 min Scan# 2119

Delta R.T. 0.013 min

Lab File: VL042456.D

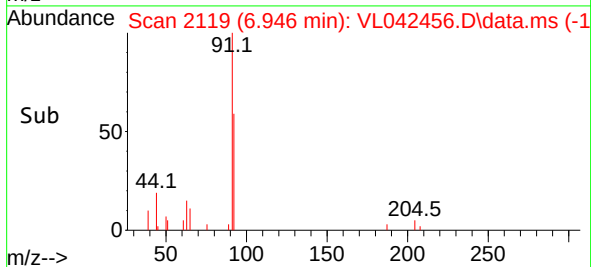
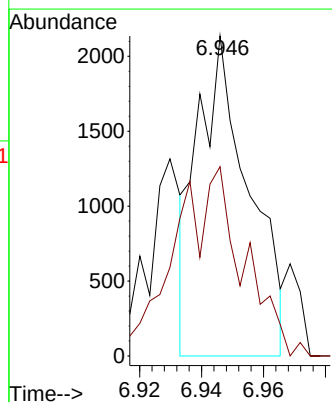
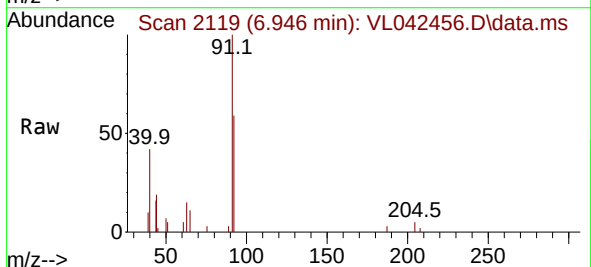
Acq: 29 Apr 2025 21:58

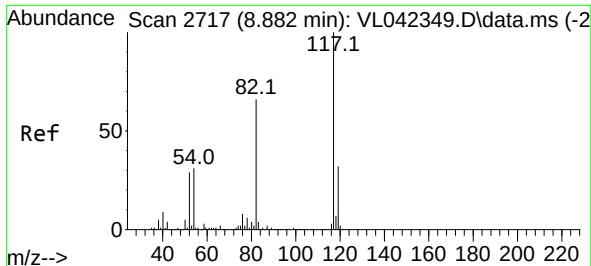
Tgt Ion: 91 Resp: 2460

Ion Ratio Lower Upper

91 100

92 81.2 48.2 72.4#

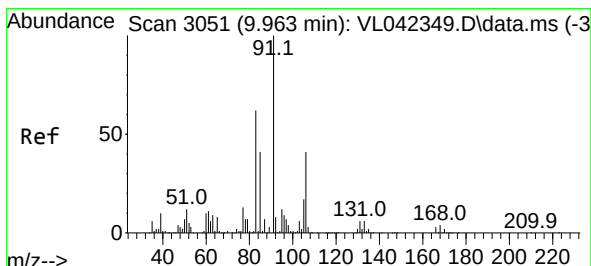
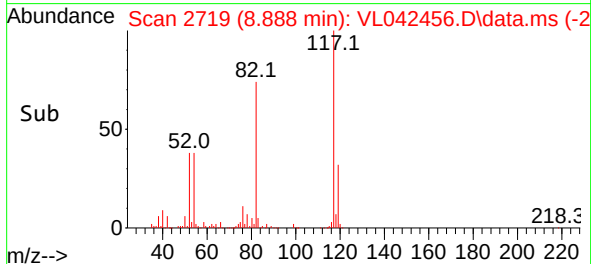
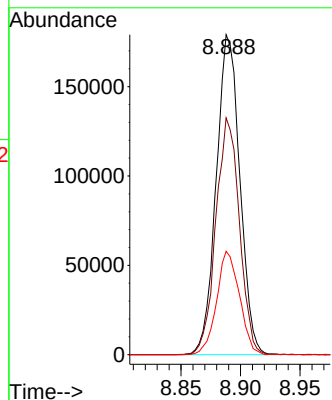
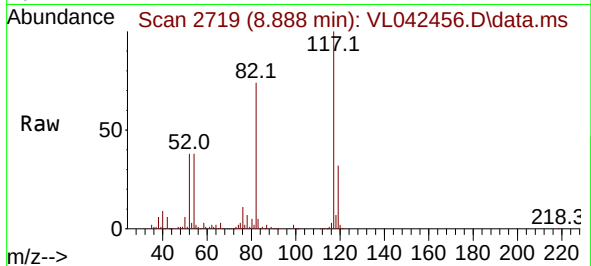




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

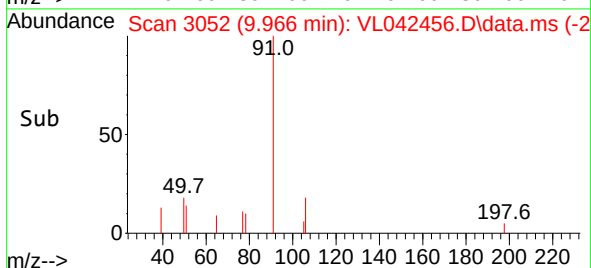
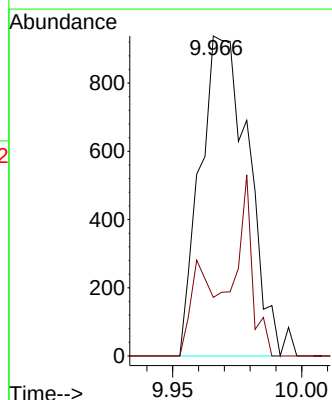
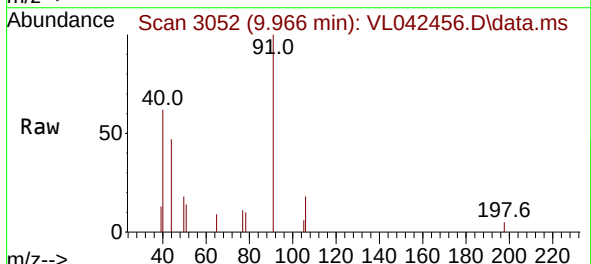
Instrument :
MSVOA_L
ClientSampleId :
B-2

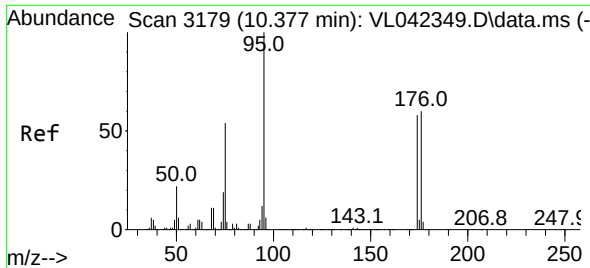
Tgt Ion:117 Resp: 246635
Ion Ratio Lower Upper
117 100
82 73.7 57.8 86.6
119 31.3 25.2 37.8



#60
o-Xylene
Concen: 0.030 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 91 Resp: 1209
Ion Ratio Lower Upper
91 100
106 34.4 21.1 63.4

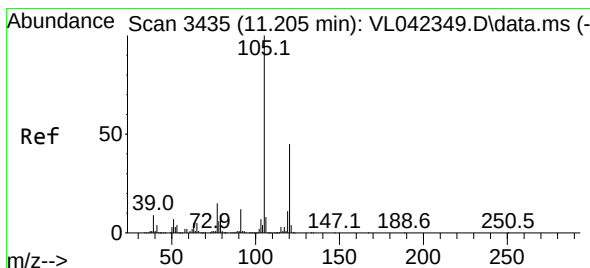
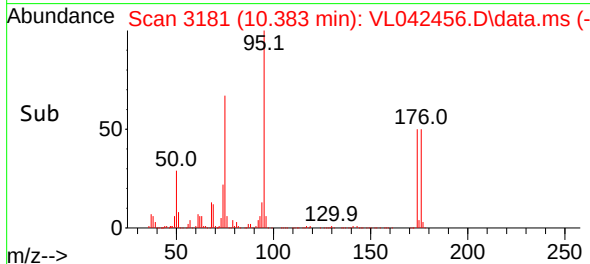
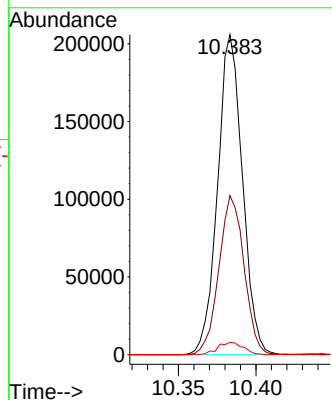
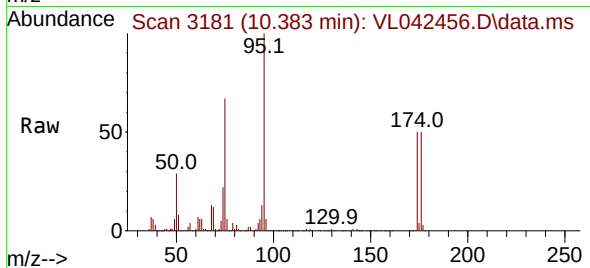




#68
1-Bromo-4-Fluorobenzene
Concen: 11.341 ppbv
RT: 10.383 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

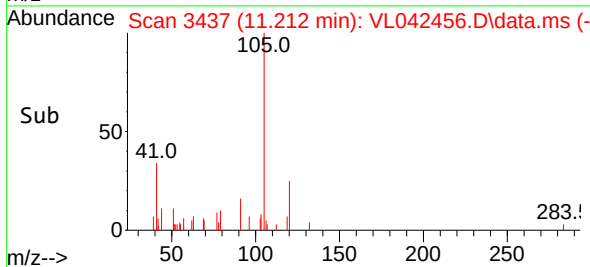
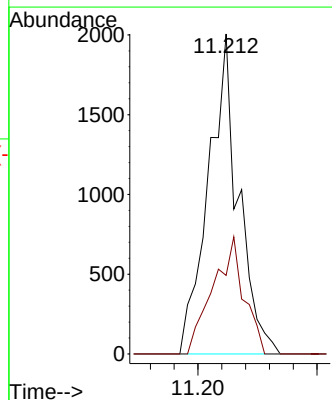
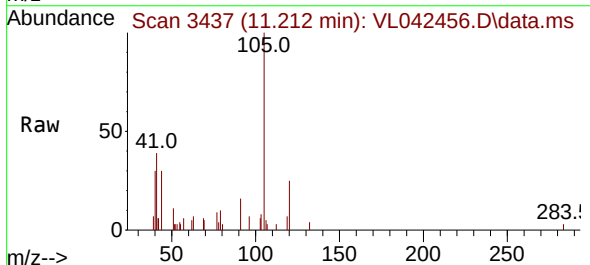
Instrument :
MSVOA_L
ClientSampleId :
B-2

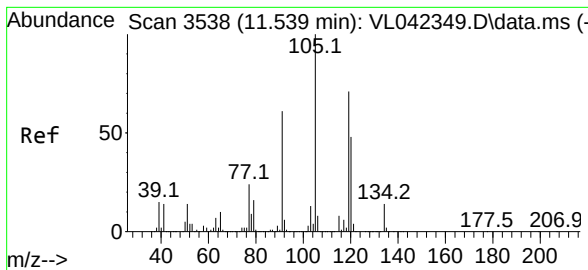
Tgt Ion: 95 Resp: 229841
Ion Ratio Lower Upper
95 100
174 50.3 48.5 72.7
175 4.0 3.7 5.5



#73
1,3,5-Trimethylbenzene
Concen: 0.041 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

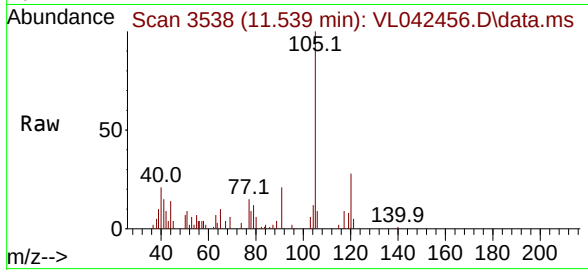
Tgt Ion: 105 Resp: 1755
Ion Ratio Lower Upper
105 100
120 24.6 35.6 53.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.109 ppbv
 RT: 11.539 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL042456.D
 Acq: 29 Apr 2025 21:58

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2



Tgt Ion:	105	Resp:	5427
Ion	Ratio	Lower	Upper
105	100		
120	22.4	38.1	57.1#
91	21.2	48.8	73.2#
77	13.9	19.0	28.4#

