

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042858.D
 Acq On : 13 Aug 2025 18:58
 Operator : SY/MD
 Sample : Q2794-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Aug 14 02:21:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

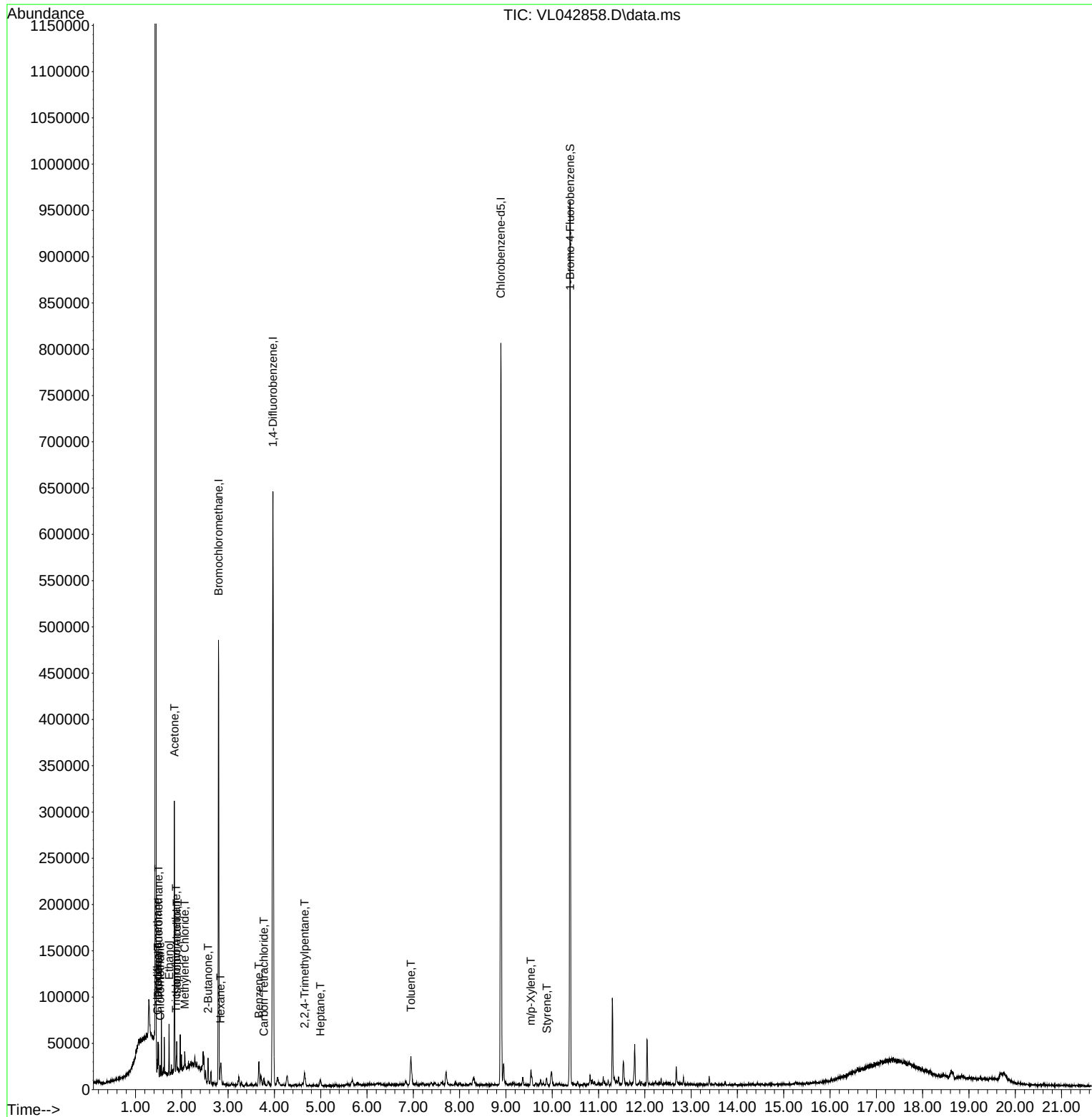
Internal Standards						
1) Bromochloromethane	2.794	49	131022	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	395826	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	339500	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	261906	10.286	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8128	0.423	ppbv	96
3) Chlorodifluoromethane	1.476	51	6227m	0.293	ppbv	
4) Chloromethane	1.532	50	3462	0.447	ppbv #	81
9) Propene	1.486	41	4738	0.517	ppbv	90
10) Heptane	4.991	43	3447m	0.140	ppbv	
11) Trichlorofluoromethane	1.881	101	3395	0.179	ppbv	86
13) Ethanol	1.726	45	18765	22.389	ppbv	90
15) Acetone	1.839	43	123004	7.097	ppbv	99
19) Isopropyl Alcohol	1.891	45	13946	1.347	ppbv #	1
20) Methylene Chloride	2.066	84	2143	0.295	ppbv #	89
26) Hexane	2.833	57	4761	0.246	ppbv #	53
34) 2-Butanone	2.567	43	16901	0.632	ppbv	97
35) Carbon Tetrachloride	3.774	117	2003	0.073	ppbv #	78
36) Benzene	3.664	78	15732	0.415	ppbv	94
44) 2,2,4-Trimethylpentane	4.652	57	12206m	0.190	ppbv	
53) Toluene	6.950	91	20514	0.455	ppbv	97
59) m/p-Xylene	9.539	91	9942m	0.212	ppbv	
61) Styrene	9.882	104	2278m	0.103	ppbv	

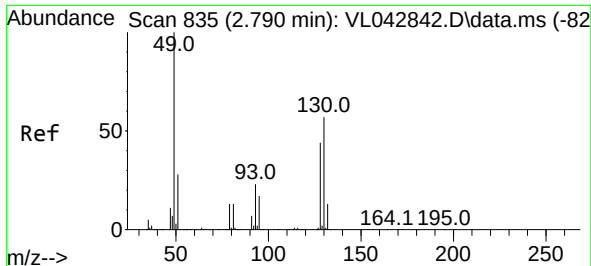
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042858.D
Acq On : 13 Aug 2025 18:58
Operator : SY/MD
Sample : Q2794-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Aug 14 02:21:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

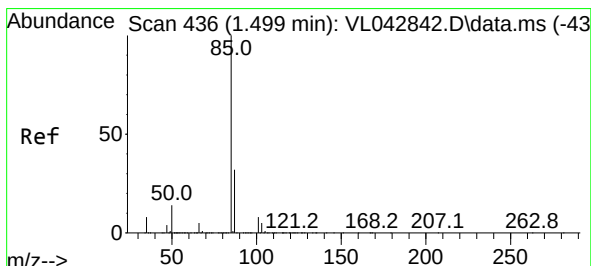
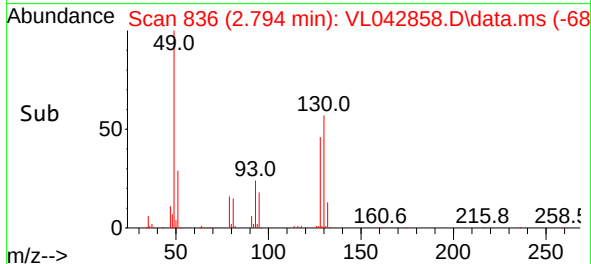
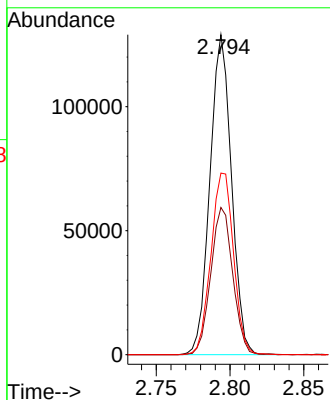
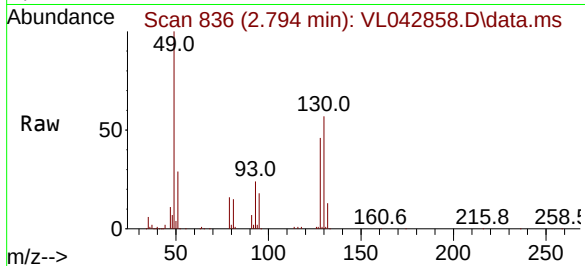




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

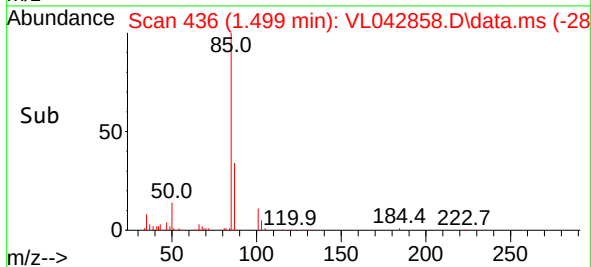
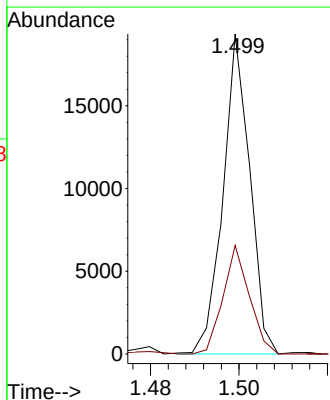
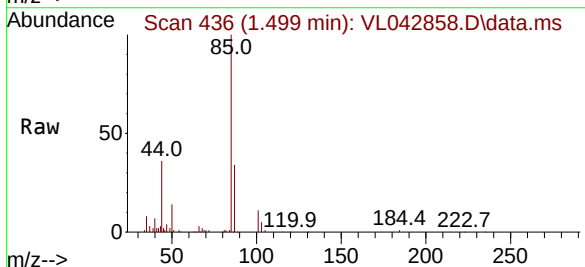
Instrument :
MSVOA_L
ClientSampleId :
OA1

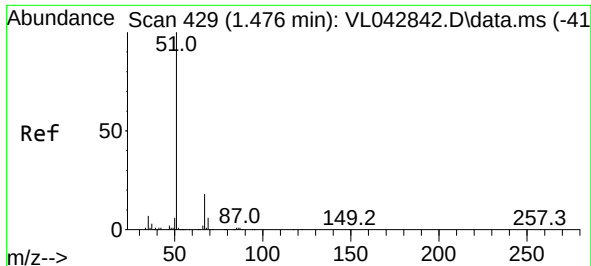
Tgt Ion: 49 Resp: 131022
Ion Ratio Lower Upper
49 100
128 47.1 23.7 71.1
130 59.7 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 85 Resp: 8128
Ion Ratio Lower Upper
85 100
87 33.9 25.3 37.9

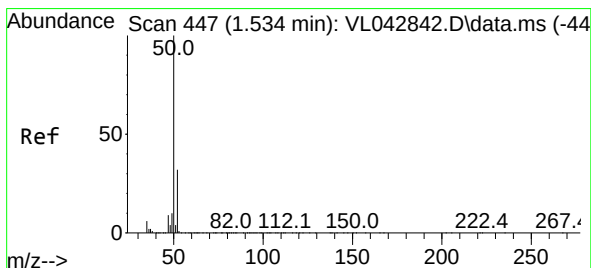
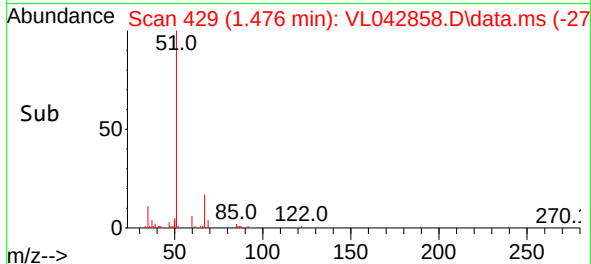
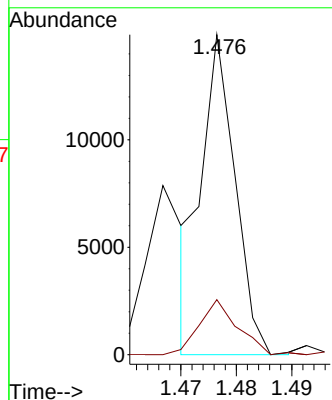
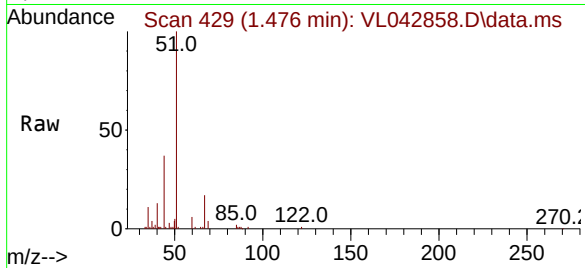




#3
Chlorodifluoromethane
Concen: 0.293 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

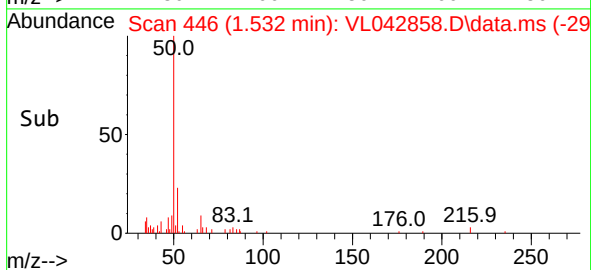
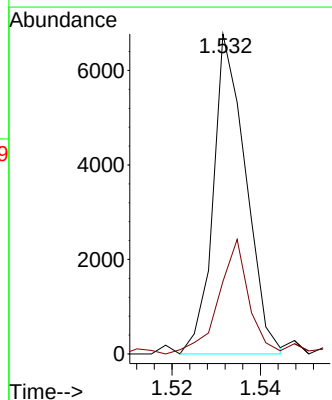
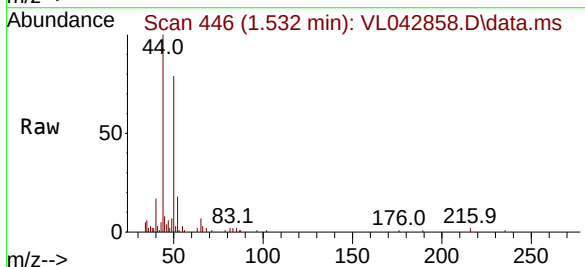
Instrument :
MSVOA_L
ClientSampleId :
OA1

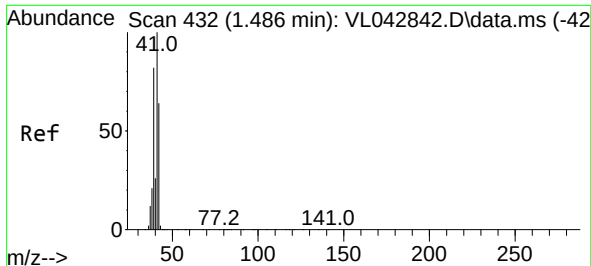
Tgt Ion: 51 Resp: 6227
Ion Ratio Lower Upper
51 100
67 20.7 14.9 22.3



#4
Chloromethane
Concen: 0.447 ppbv
RT: 1.532 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 50 Resp: 3462
Ion Ratio Lower Upper
50 100
52 21.6 25.9 38.9#





#9

Propene

Concen: 0.517 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

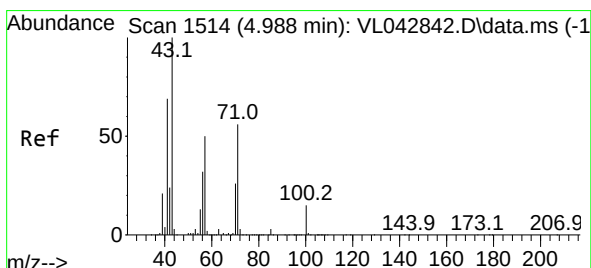
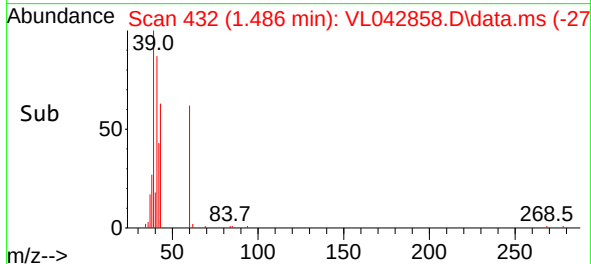
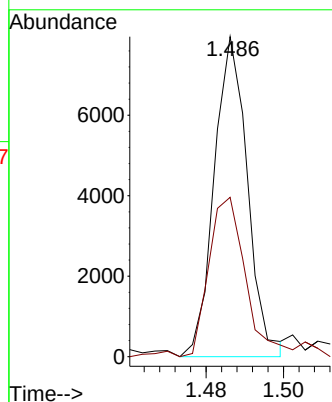
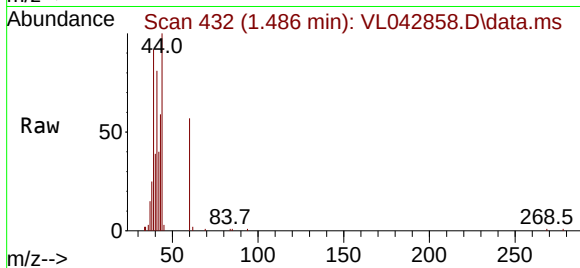
OA1

Tgt Ion: 41 Resp: 4738

Ion Ratio Lower Upper

41 100

42 58.3 53.0 79.4



#10

Heptane

Concen: 0.140 ppbv m

RT: 4.991 min Scan# 1515

Delta R.T. 0.004 min

Lab File: VL042858.D

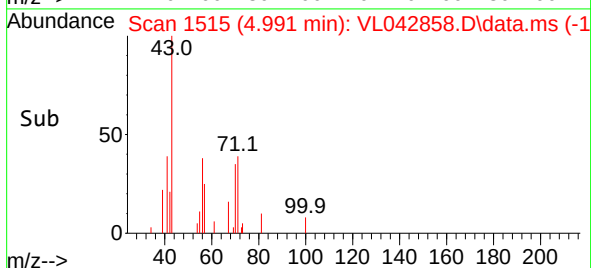
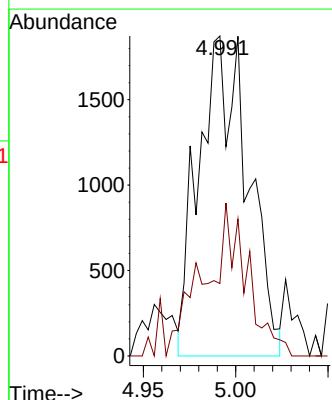
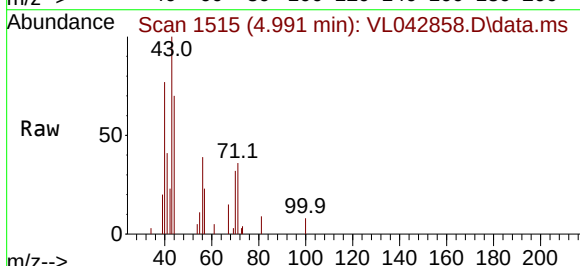
Acq: 13 Aug 2025 18:58

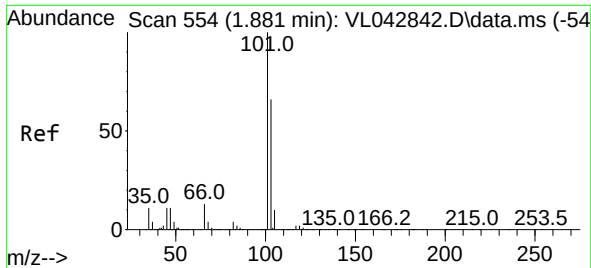
Tgt Ion: 43 Resp: 3447

Ion Ratio Lower Upper

43 100

57 43.6 41.4 62.0

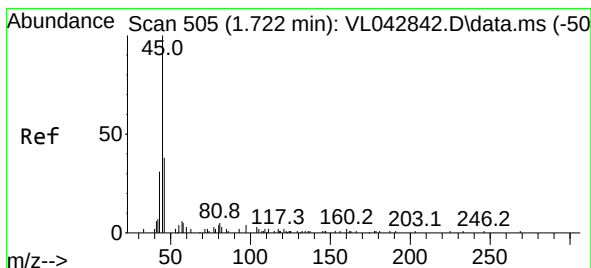
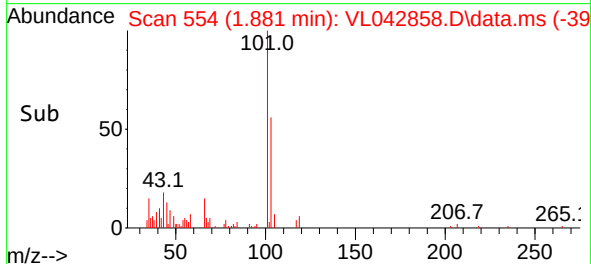
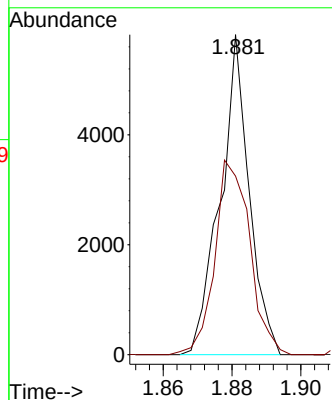
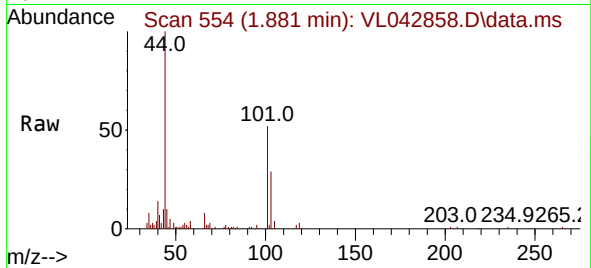




#11
 Trichlorofluoromethane
 Concen: 0.179 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042858.D
 Acq: 13 Aug 2025 18:58

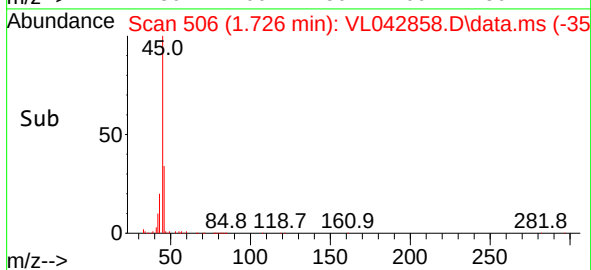
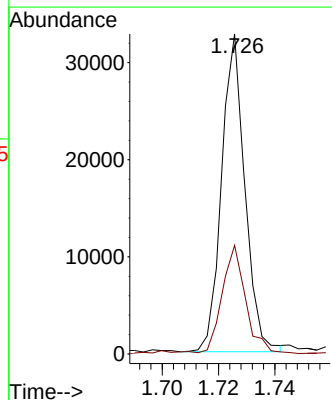
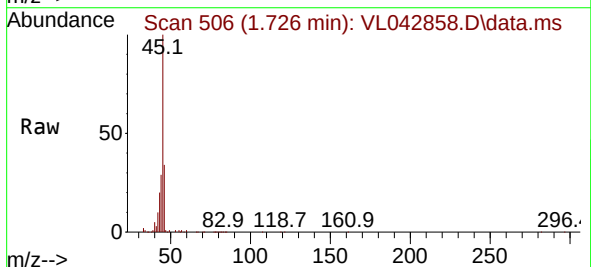
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

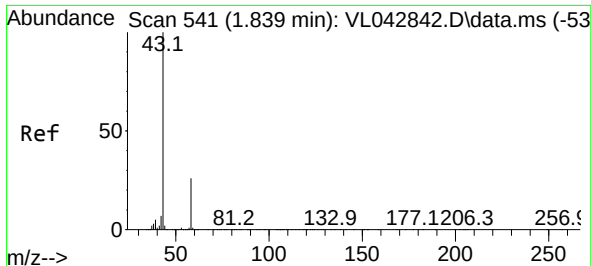
Tgt Ion:101 Resp: 3395
 Ion Ratio Lower Upper
 101 100
 103 54.9 52.5 78.7



#13
 Ethanol
 Concen: 22.389 ppbv
 RT: 1.726 min Scan# 506
 Delta R.T. 0.004 min
 Lab File: VL042858.D
 Acq: 13 Aug 2025 18:58

Tgt Ion: 45 Resp: 18765
 Ion Ratio Lower Upper
 45 100
 46 37.4 17.5 69.9

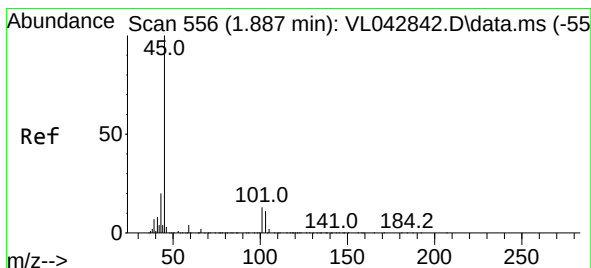
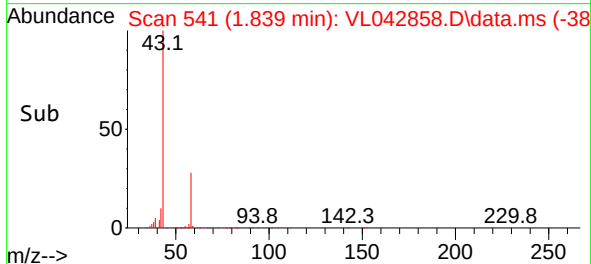
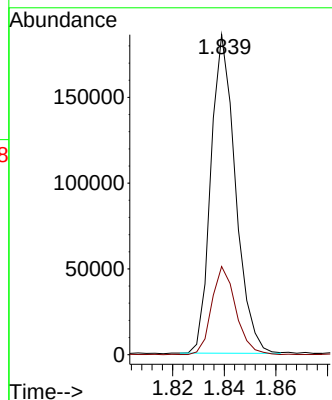
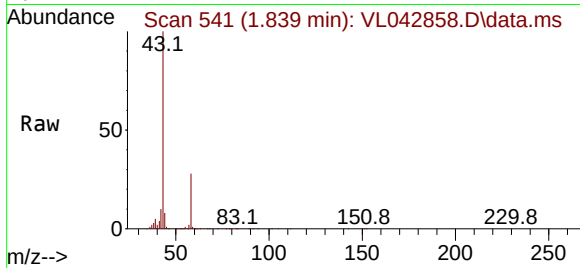




#15
Acetone
Concen: 7.097 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

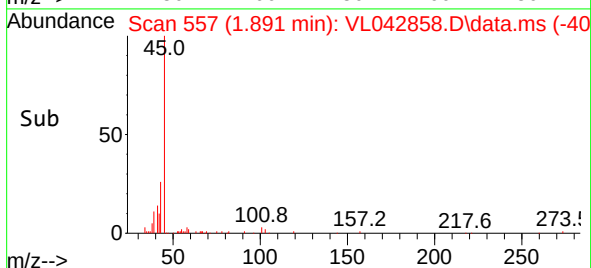
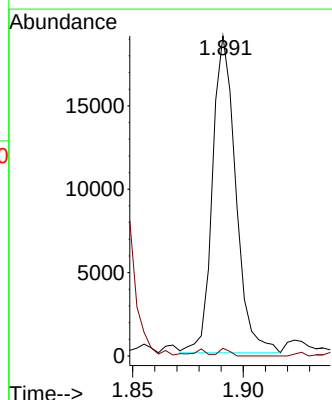
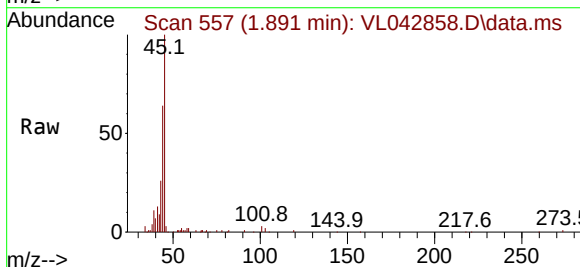
Instrument :
MSVOA_L
ClientSampleId :
OA1

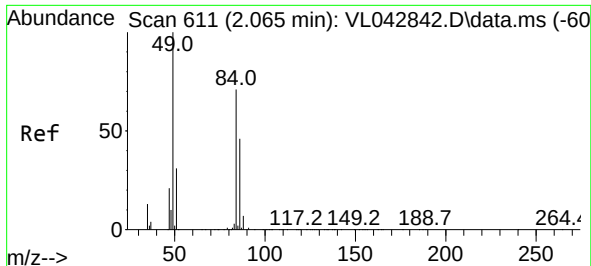
Tgt Ion: 43 Resp: 123004
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6



#19
Isopropyl Alcohol
Concen: 1.347 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 45 Resp: 13946
Ion Ratio Lower Upper
45 100
58 243.0 32.7 49.1#

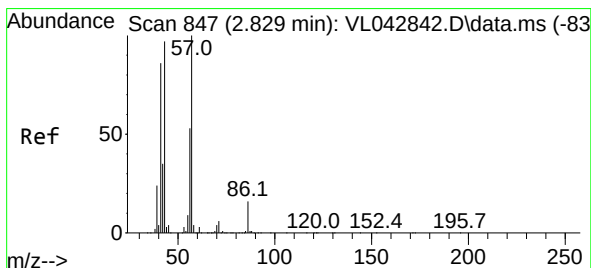
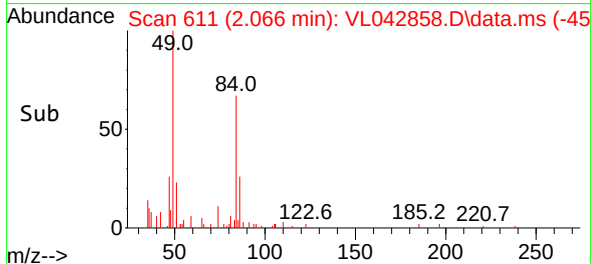
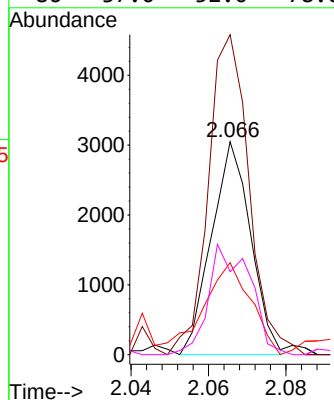
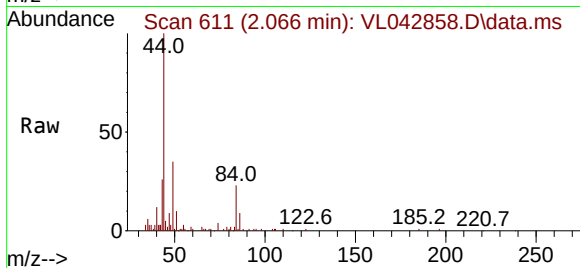




#20
Methylene Chloride
Concen: 0.295 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

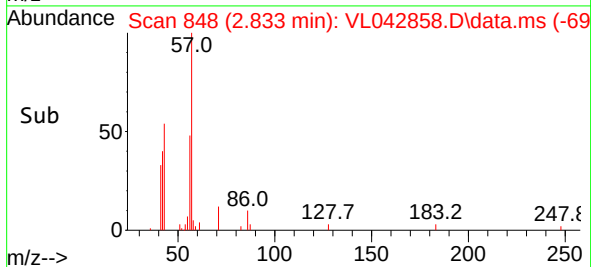
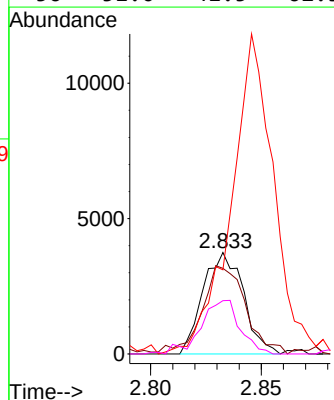
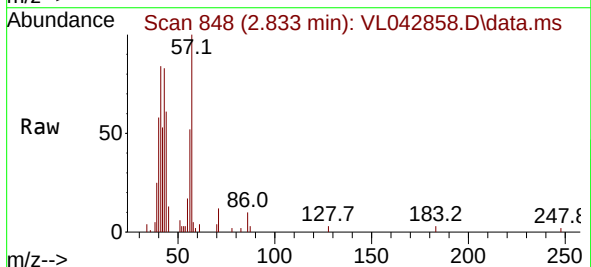
Instrument :
MSVOA_L
ClientSampleId :
OA1

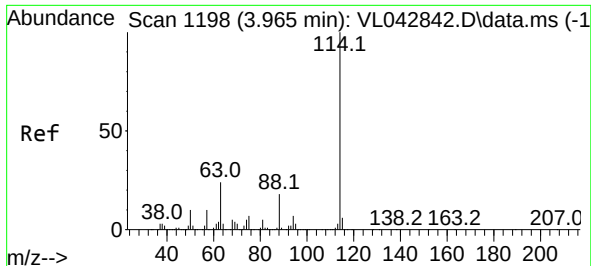
Tgt Ion: 84	Resp: 2143
Ion Ratio	Lower Upper
84 100	
49 142.2	112.3 168.5
51 43.2	36.0 54.0
86 37.0	52.0 78.0#



#26
Hexane
Concen: 0.246 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 57	Resp: 4761
Ion Ratio	Lower Upper
57 100	
41 96.7	68.6 103.0
43 324.9	168.5 252.7#
56 51.0	41.5 62.3

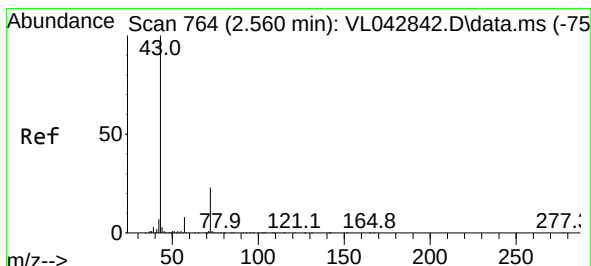
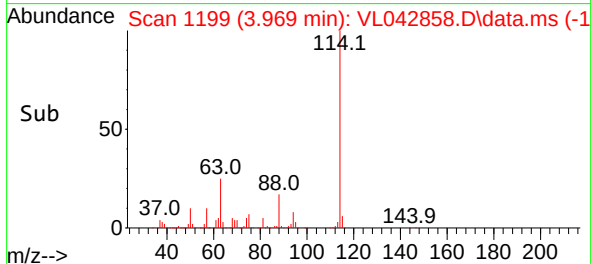
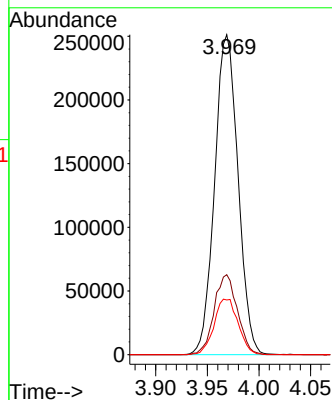
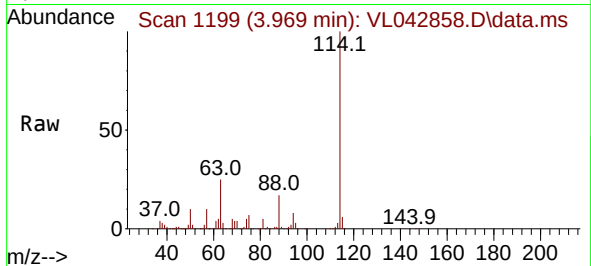




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.969 min Scan# 1199
 Delta R.T. 0.004 min
 Lab File: VL042858.D
 Acq: 13 Aug 2025 18:58

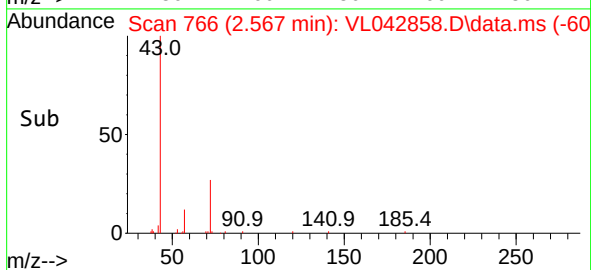
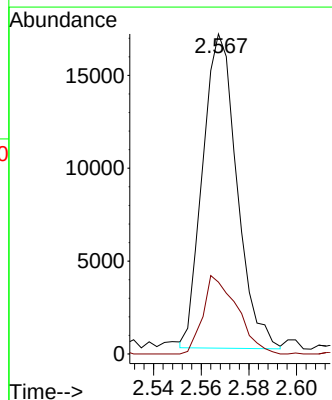
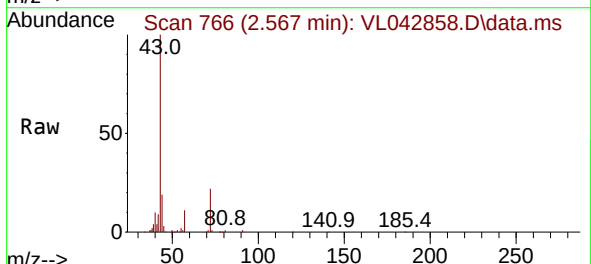
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

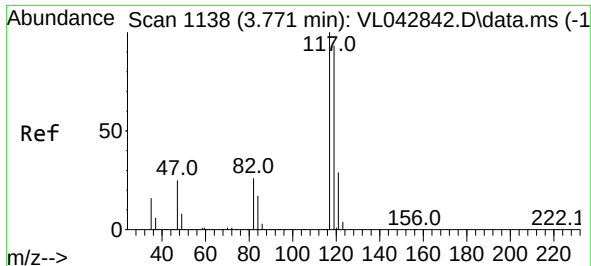
Tgt Ion:114 Resp: 395826
 Ion Ratio Lower Upper
 114 100
 63 24.9 19.7 29.5
 88 17.9 14.4 21.6



#34
 2-Butanone
 Concen: 0.632 ppbv
 RT: 2.567 min Scan# 766
 Delta R.T. 0.007 min
 Lab File: VL042858.D
 Acq: 13 Aug 2025 18:58

Tgt Ion: 43 Resp: 16901
 Ion Ratio Lower Upper
 43 100
 72 24.9 18.6 28.0

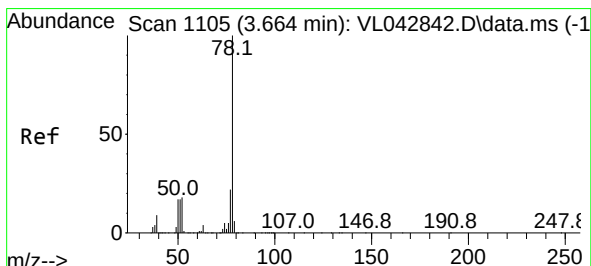
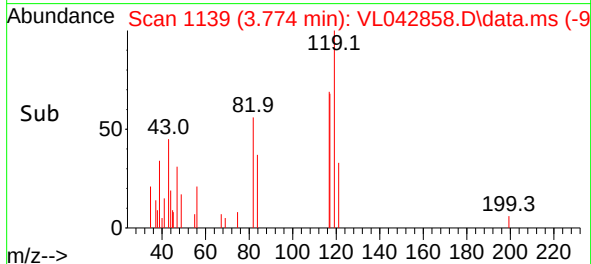
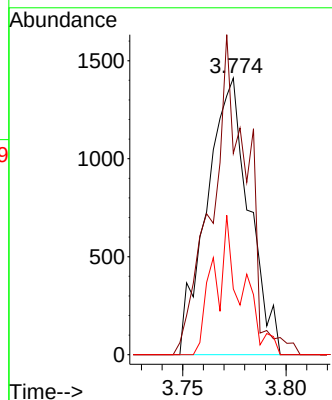
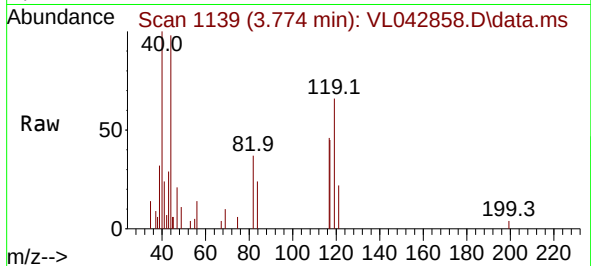




#35
Carbon Tetrachloride
Concen: 0.073 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

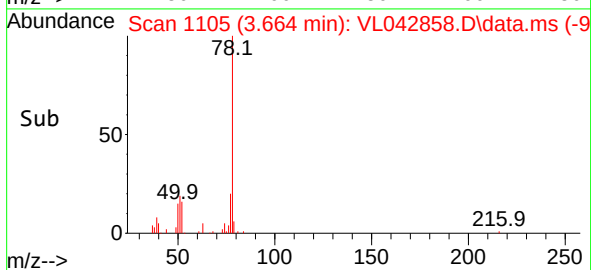
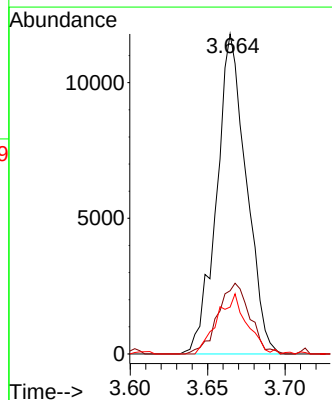
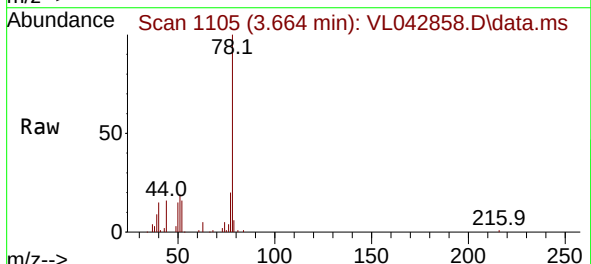
Instrument :
MSVOA_L
ClientSampleId :
OA1

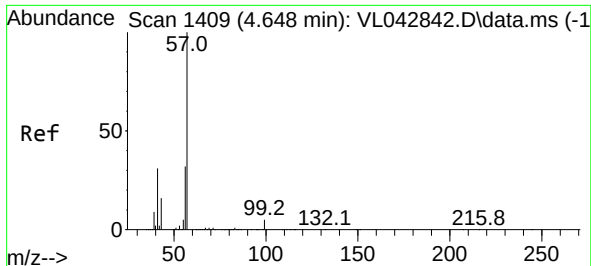
Tgt Ion:117 Resp: 2003
Ion Ratio Lower Upper
117 100
119 68.4 74.7 112.1#
121 23.8 23.2 34.8



#36
Benzene
Concen: 0.415 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 78 Resp: 15732
Ion Ratio Lower Upper
78 100
77 19.8 17.7 26.5
50 14.6 13.9 20.9

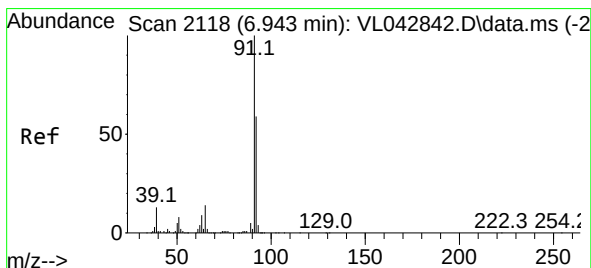
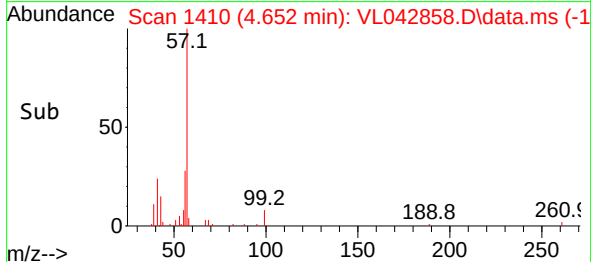
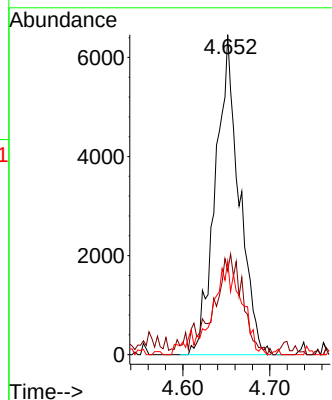
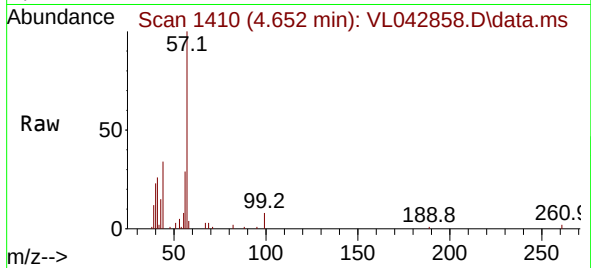




#44
2,2,4-Trimethylpentane
Concen: 0.190 ppbv m
RT: 4.652 min Scan# 1409
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

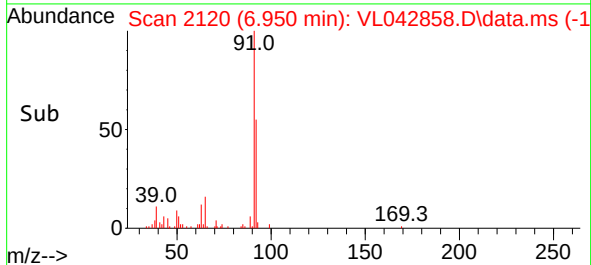
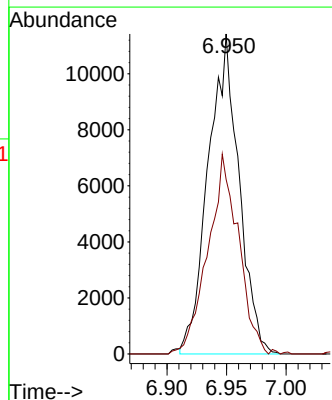
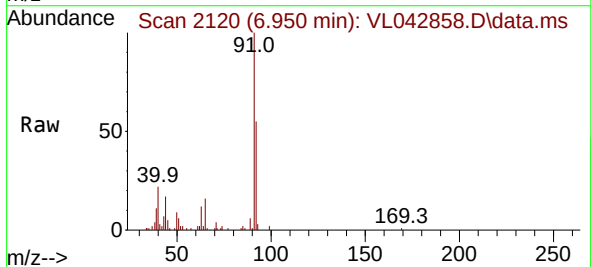
Instrument :
MSVOA_L
ClientSampleId :
OA1

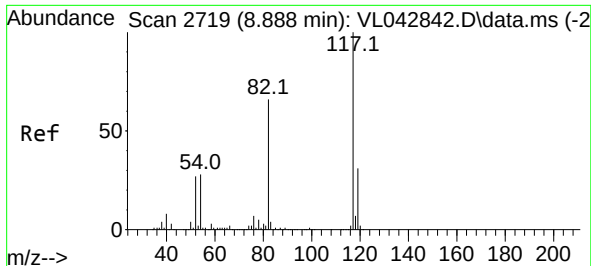
Tgt Ion: 57 Resp: 12206
Ion Ratio Lower Upper
57 100
41 40.7 24.8 37.2#
56 37.8 25.5 38.3



#53
Toluene
Concen: 0.455 ppbv
RT: 6.950 min Scan# 2120
Delta R.T. 0.007 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 91 Resp: 20514
Ion Ratio Lower Upper
91 100
92 62.2 47.8 71.6

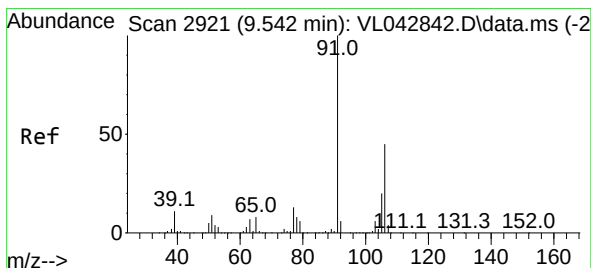
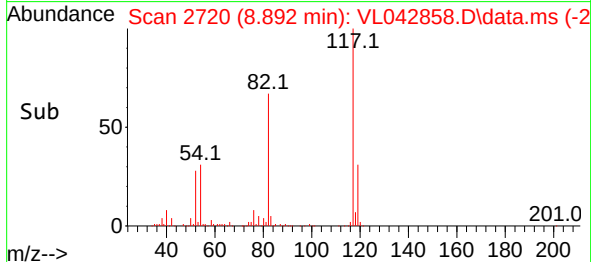
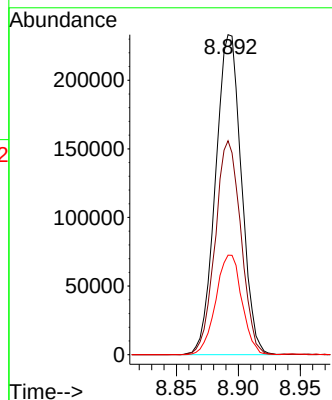
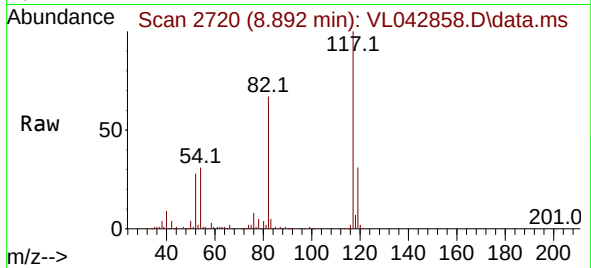




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

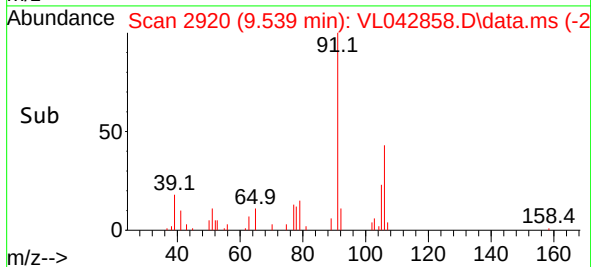
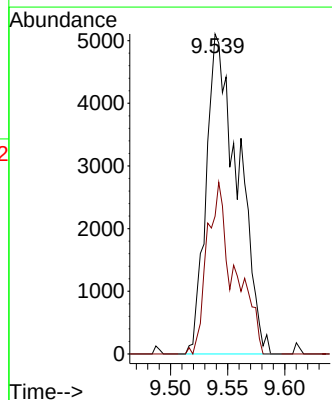
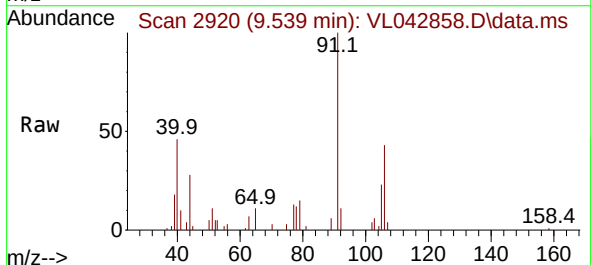
Instrument :
MSVOA_L
ClientSampleId :
OA1

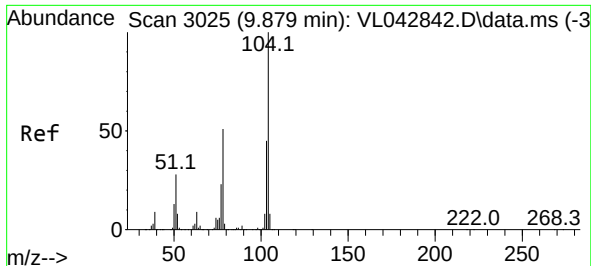
Tgt Ion:117 Resp: 339500
Ion Ratio Lower Upper
117 100
82 66.6 54.6 81.8
119 31.6 25.9 38.9



#59
m/p-Xylene
Concen: 0.212 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.003 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 91 Resp: 9942
Ion Ratio Lower Upper
91 100
106 46.3 0.0 0.0#

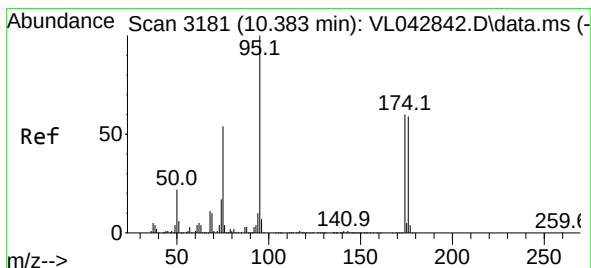
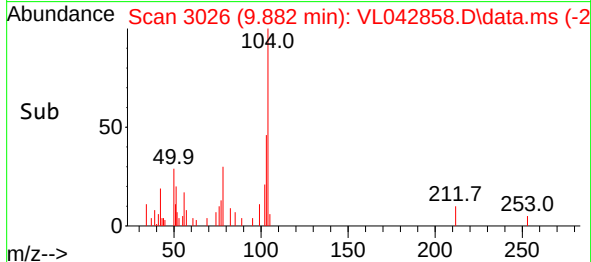
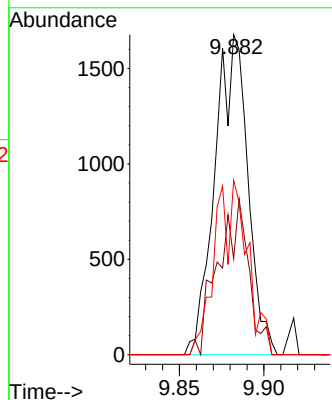
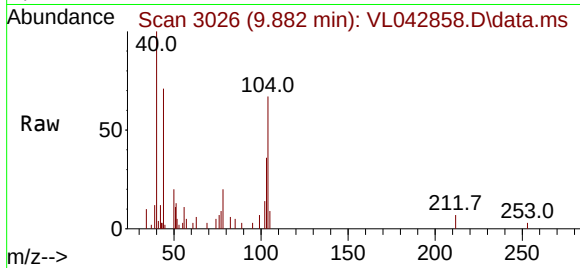




#61
Styrene
Concen: 0.103 ppbv m
RT: 9.882 min Scan# 3025
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:104 Resp: 2278
Ion Ratio Lower Upper
104 100
78 44.9 40.6 61.0
103 53.5 37.7 56.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.286 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 95 Resp: 261906
Ion Ratio Lower Upper
95 100
174 56.0 48.4 72.6
175 4.2 3.8 5.8

