

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041927.D
 Acq On : 20 Jan 2025 19:17
 Operator : SY/MD
 Sample : Q1090-05DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 03:07:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	136080	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	372383	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	324406	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	257279	10.069	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8167	0.441	ppbv	99
3) Chlorodifluoromethane	1.473	51	8823	0.454	ppbv	92
4) Chloromethane	1.528	50	3792	0.544	ppbv	99
6) Bromomethane	1.661	94	106	0.031	ppbv #	68
7) Chloroethane	1.525	64	207	0.075	ppbv #	43
9) Propene	1.483	41	4693	0.587	ppbv #	79
11) Trichlorofluoromethane	1.874	101	4065	0.211	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	1125	0.074	ppbv	91
13) Ethanol	1.719	45	12126	20.696	ppbv	91
15) Acetone	1.832	43	52167	3.192	ppbv	99
16) 1,3-Butadiene	1.596	39	888	0.121	ppbv #	58
19) Isopropyl Alcohol	1.884	45	6564	0.677	ppbv #	1
20) Methylene Chloride	2.059	84	1992	0.308	ppbv #	78
23) Vinyl Acetate	2.447	43	1709	0.211	ppbv #	83
26) Hexane	2.819	57	1801	0.103	ppbv #	58
34) 2-Butanone	2.557	43	4785	0.202	ppbv	97
35) Carbon Tetrachloride	3.751	117	1612	0.069	ppbv #	68
36) Benzene	3.648	78	6457	0.189	ppbv #	87
39) 1,2-Dichloropropane	3.952	63	92084	7.686	ppbv #	21
53) Toluene	6.914	91	2971	0.080	ppbv #	21
58) Ethyl Benzene	9.344	91	1547	0.031	ppbv #	78
59) m/p-Xylene	9.542	91	1556	0.038	ppbv #	31

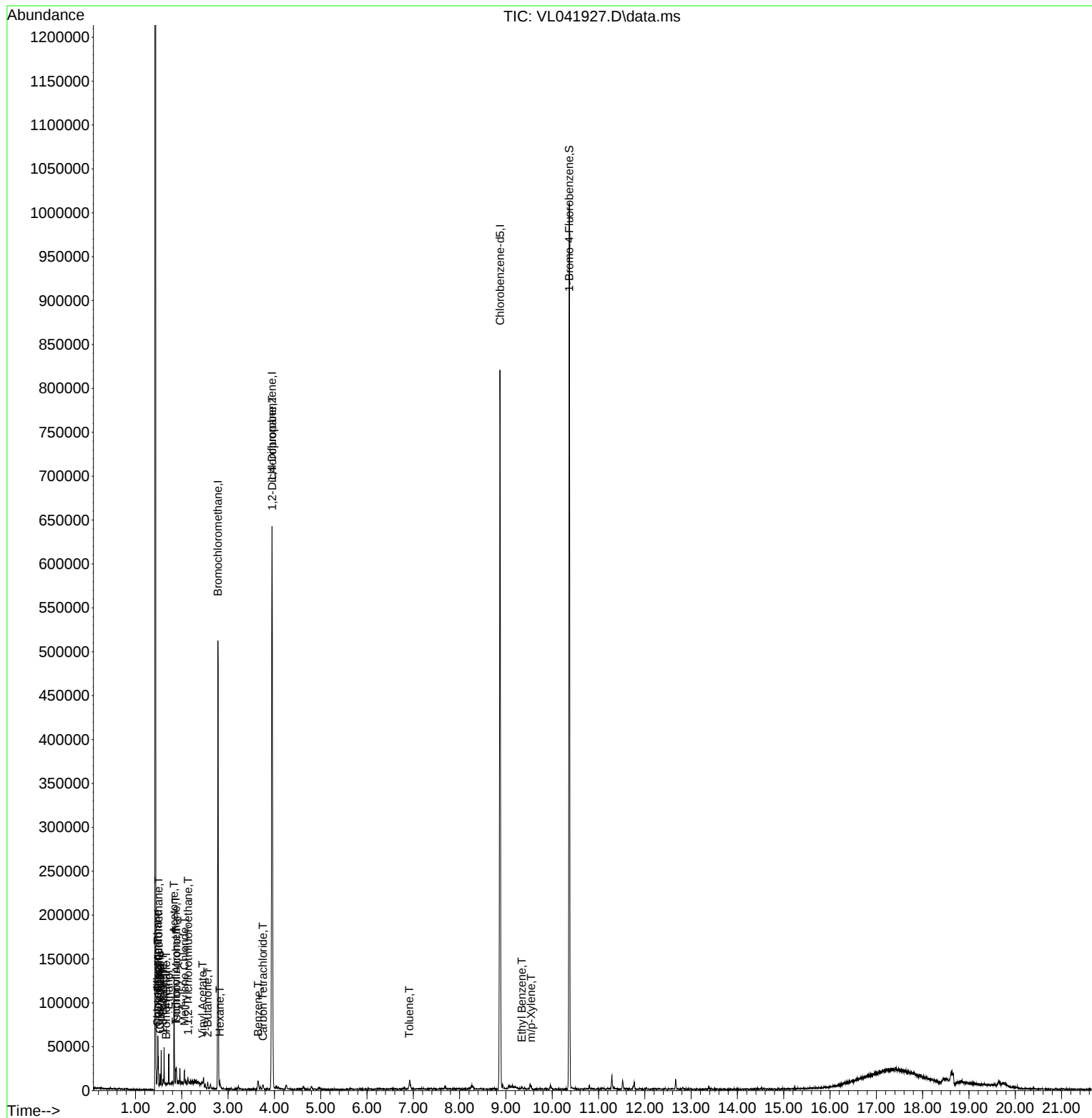
(#) = qualifier out of range (m) = manual integration (+) = signals summed

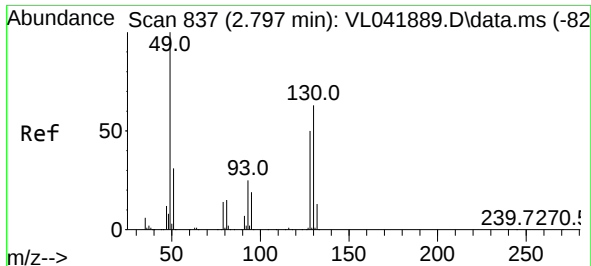
Instrument :

MSVOA_L

ClientSampleId :

Response via : Initial Calibration

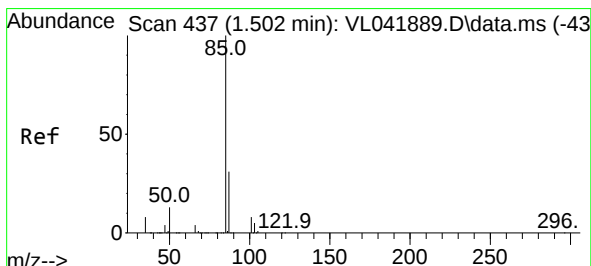
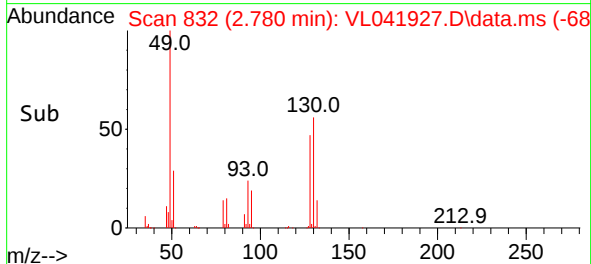
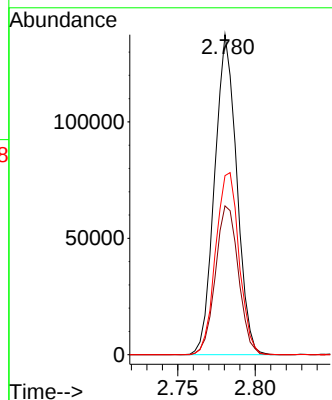
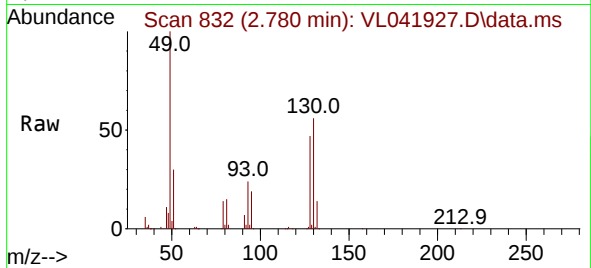




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.017 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

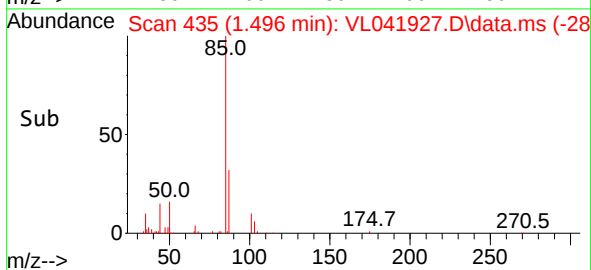
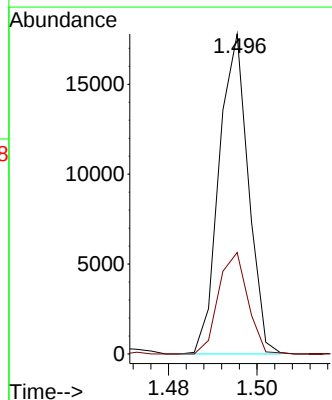
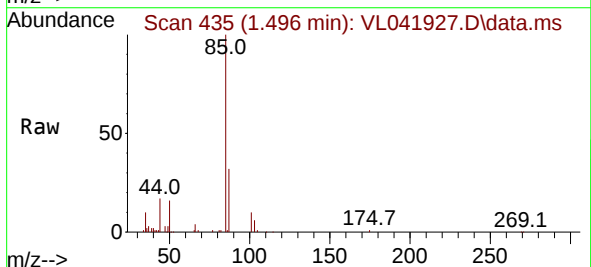
Instrument :
MSVOA_L
ClientSampleId :

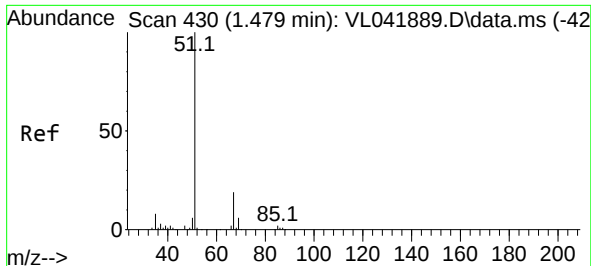
Tgt Ion: 49 Resp: 136080
Ion Ratio Lower Upper
49 100
128 48.4 24.3 73.0
130 60.4 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

Tgt Ion: 85 Resp: 8167
Ion Ratio Lower Upper
85 100
87 31.7 24.9 37.3

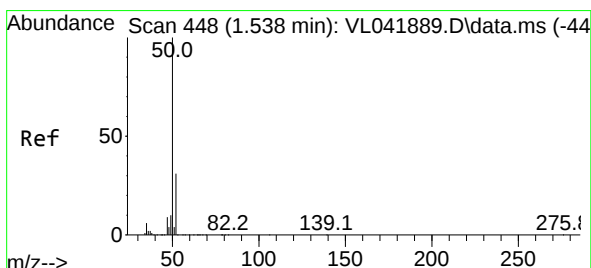
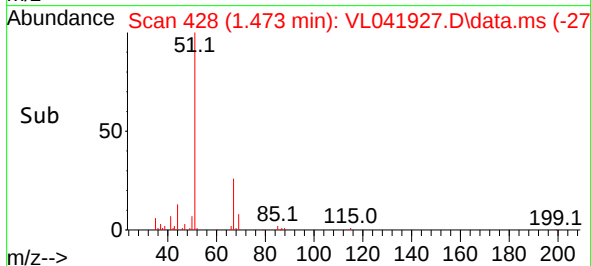
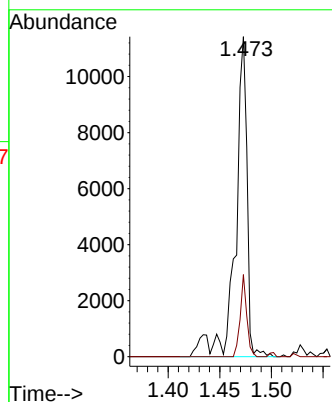
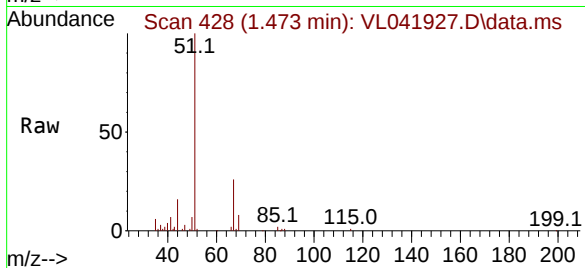




#3
Chlorodifluoromethane
Concen: 0.454 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

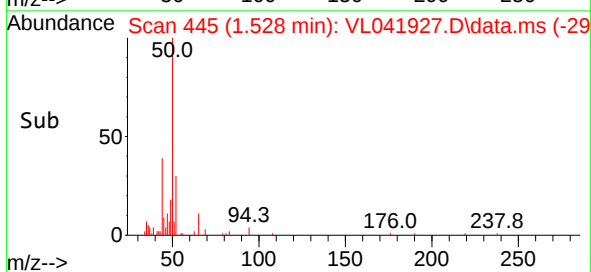
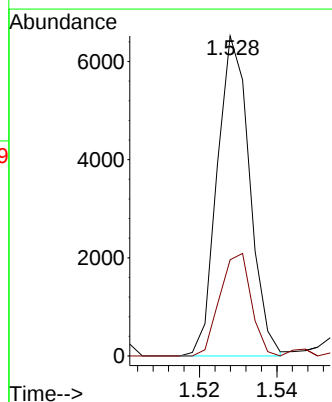
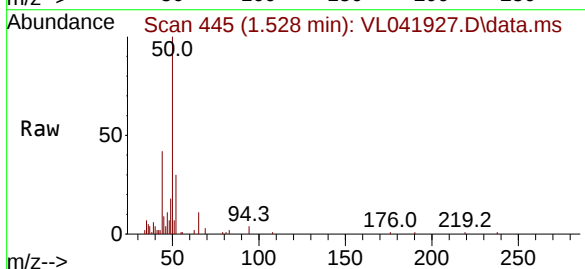
Instrument :
MSVOA_L
ClientSampleId :

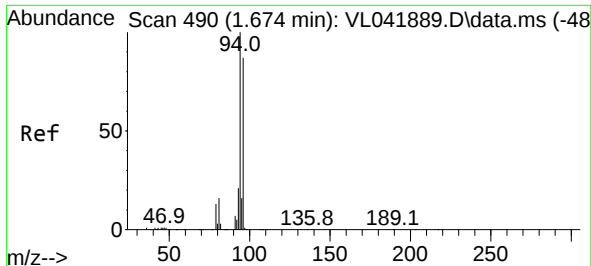
Tgt Ion: 51 Resp: 8823
Ion Ratio Lower Upper
51 100
67 15.1 15.0 22.4



#4
Chloromethane
Concen: 0.544 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

Tgt Ion: 50 Resp: 3792
Ion Ratio Lower Upper
50 100
52 30.0 24.6 36.8

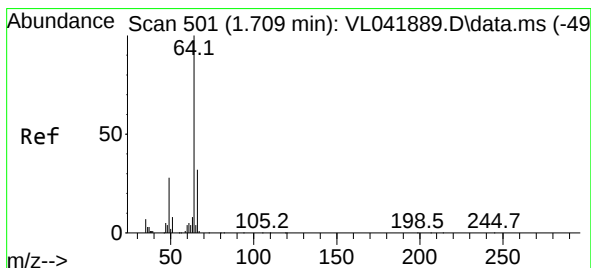
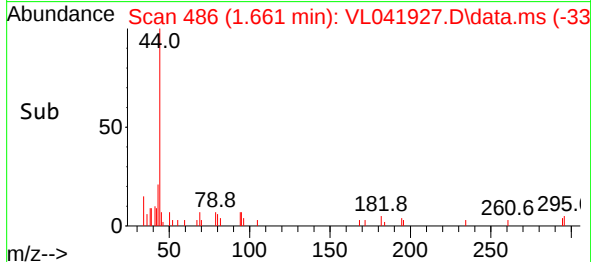
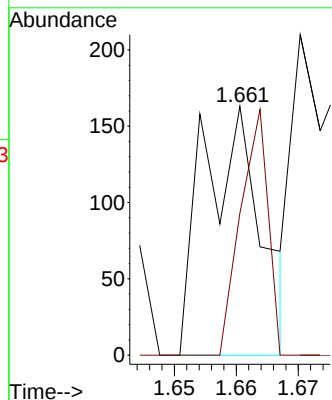
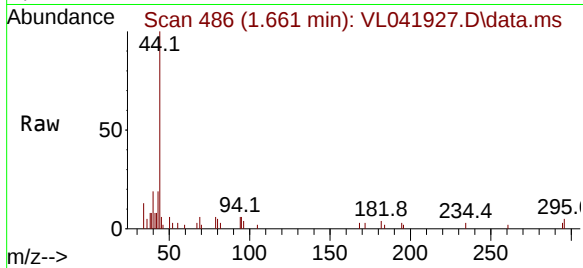




#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.661 min Scan# 441
Delta R.T. -0.013 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

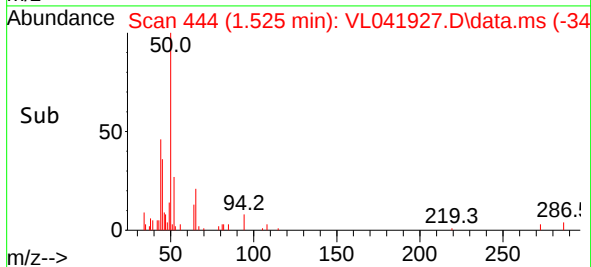
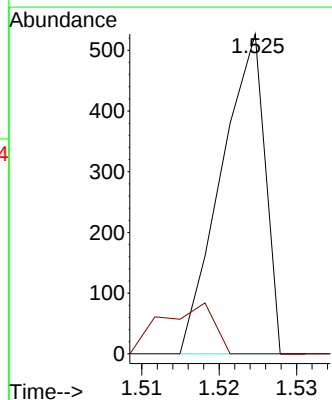
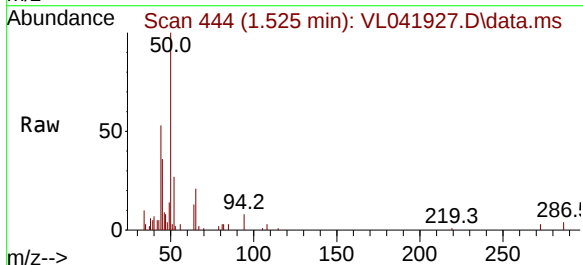
Instrument :
MSVOA_L
ClientSampleId :

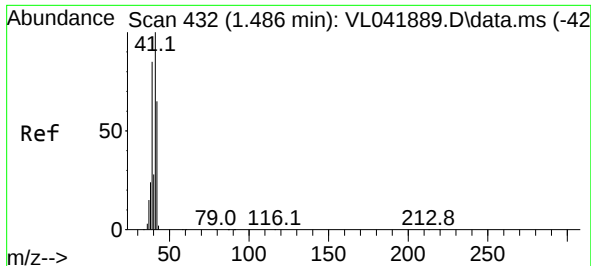
Tgt Ion: 94 Resp: 106
Ion Ratio Lower Upper
94 100
96 57.1 69.5 104.3#



#7
Chloroethane
Concen: 0.075 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.184 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

Tgt Ion: 64 Resp: 207
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#





#9

Propene

Concen: 0.587 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041927.D

Acq: 20 Jan 2025 19:17

Instrument :

MSVOA_L

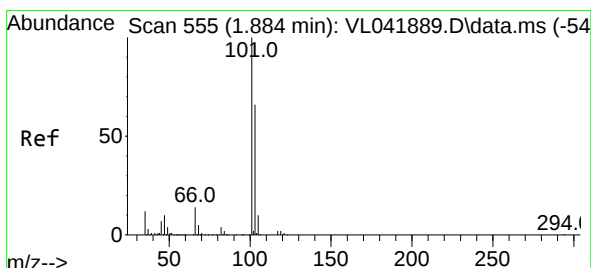
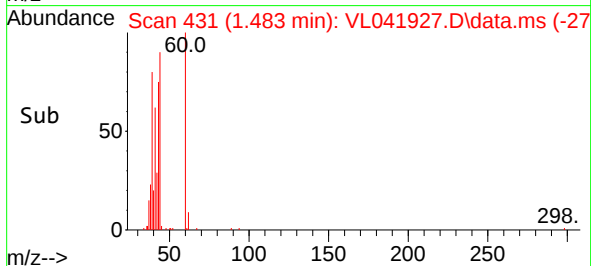
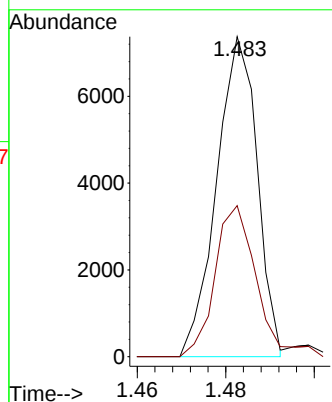
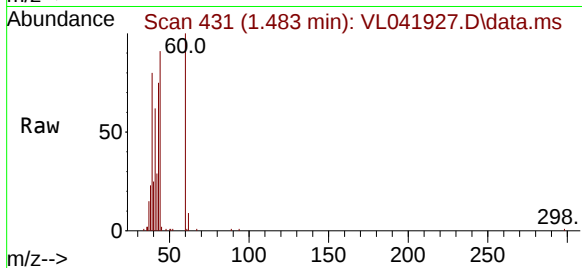
ClientSampleId :

Tgt Ion: 41 Resp: 4693

Ion Ratio Lower Upper

41 100

42 48.2 52.0 78.0#



#11

Trichlorofluoromethane

Concen: 0.211 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.010 min

Lab File: VL041927.D

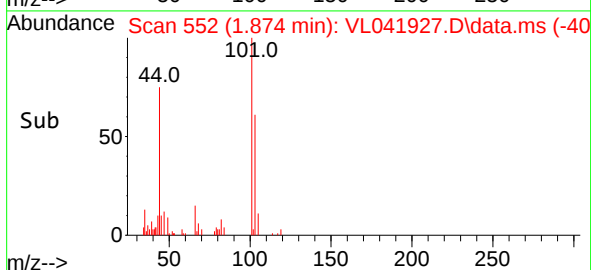
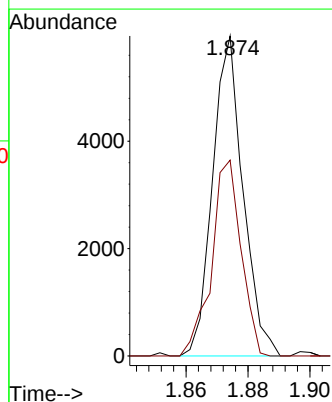
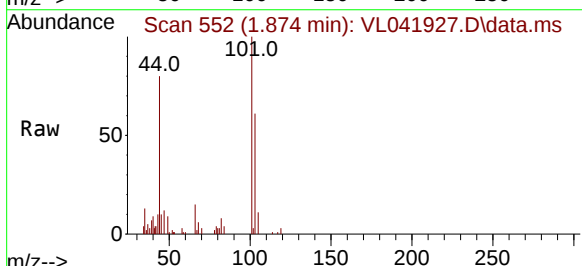
Acq: 20 Jan 2025 19:17

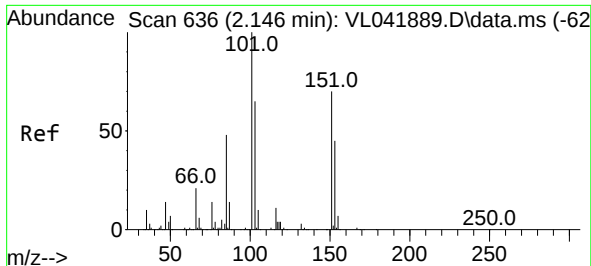
Tgt Ion:101 Resp: 4065

Ion Ratio Lower Upper

101 100

103 61.2 53.1 79.7

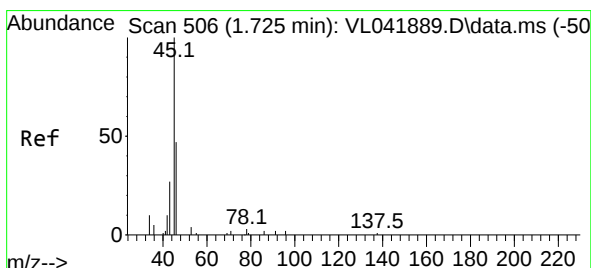
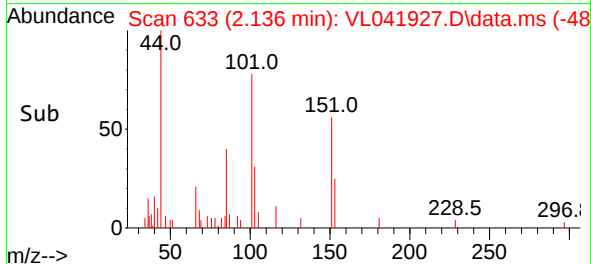
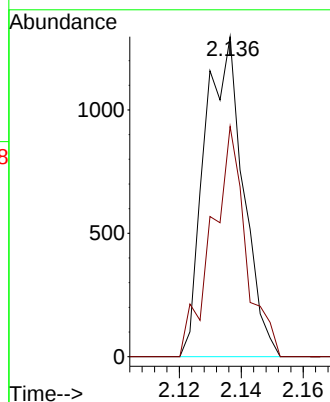
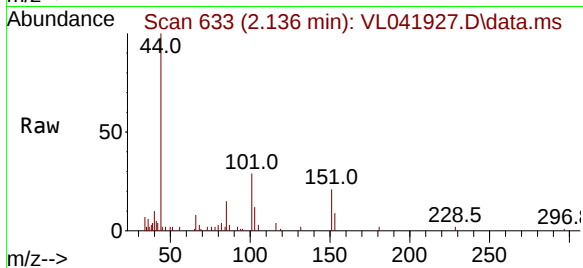




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.074 ppbv
 RT: 2.136 min Scan# 611
 Delta R.T. -0.010 min
 Lab File: VL041927.D
 Acq: 20 Jan 2025 19:17

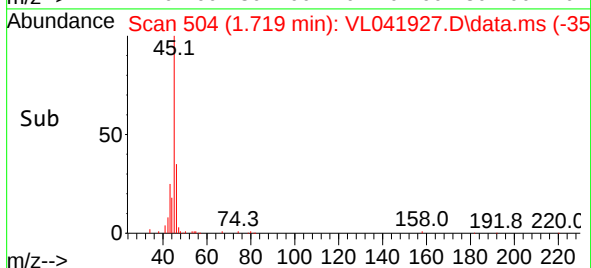
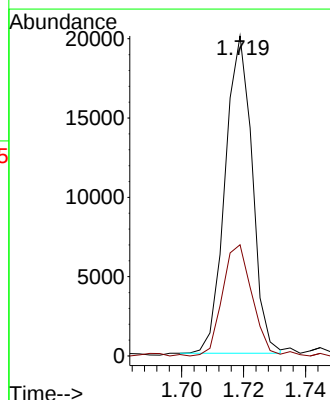
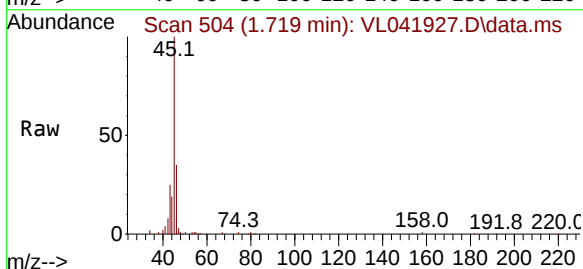
Instrument :
 MSVOA_L
 ClientSampleId :

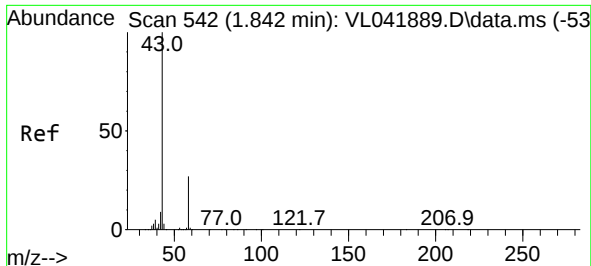
Tgt Ion:101 Resp: 1125
 Ion Ratio Lower Upper
 101 100
 151 63.1 56.1 84.1



#13
 Ethanol
 Concen: 20.696 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. -0.006 min
 Lab File: VL041927.D
 Acq: 20 Jan 2025 19:17

Tgt Ion: 45 Resp: 12126
 Ion Ratio Lower Upper
 45 100
 46 39.6 18.1 72.5





#15

Acetone

Concen: 3.192 ppbv

RT: 1.832 min Scan# 51

Delta R.T. -0.010 min

Lab File: VL041927.D

Acq: 20 Jan 2025 19:17

Instrument :

MSVOA_L

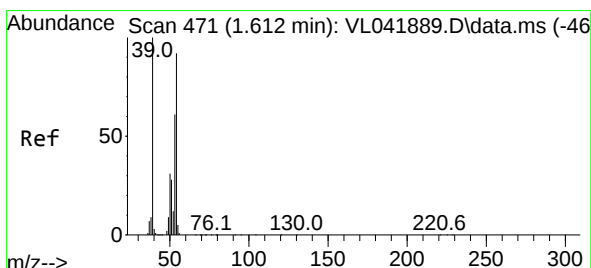
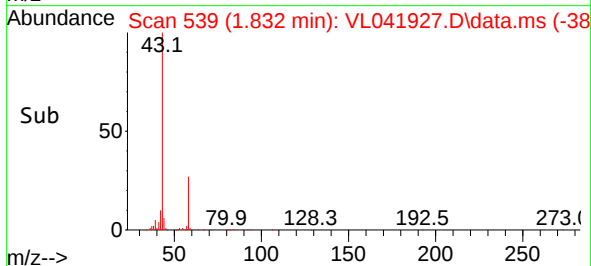
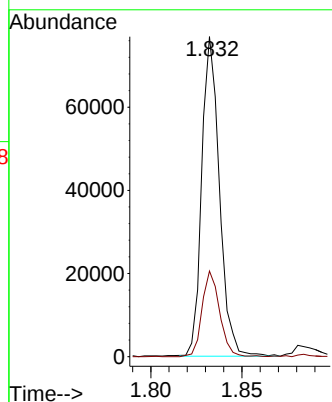
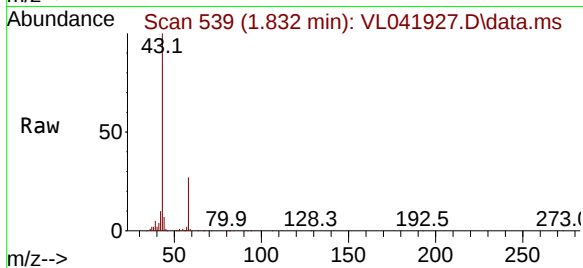
ClientSampleId :

Tgt Ion: 43 Resp: 52167

Ion Ratio Lower Upper

43 100

58 26.7 21.9 32.9



#16

1,3-Butadiene

Concen: 0.121 ppbv

RT: 1.596 min Scan# 466

Delta R.T. -0.016 min

Lab File: VL041927.D

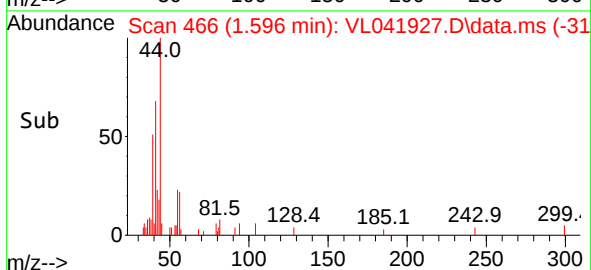
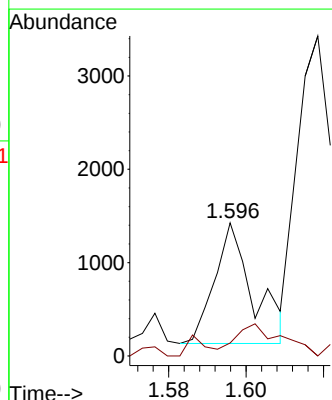
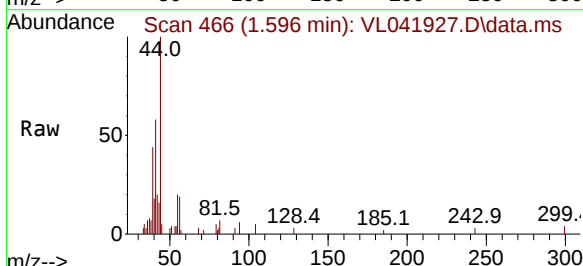
Acq: 20 Jan 2025 19:17

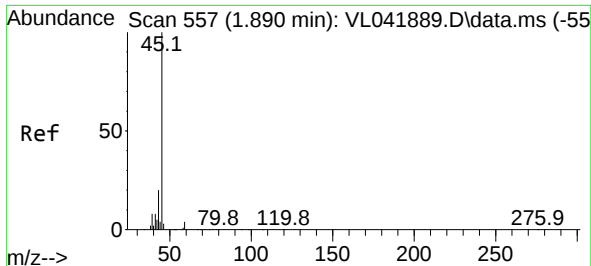
Tgt Ion: 39 Resp: 888

Ion Ratio Lower Upper

39 100

54 40.3 61.6 92.4#





#19

Isopropyl Alcohol

Concen: 0.677 ppbv

RT: 1.884 min Scan# 51

Delta R.T. -0.006 min

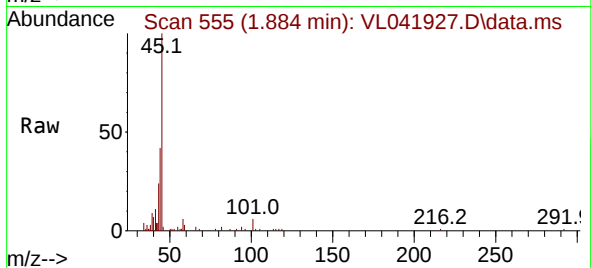
Lab File: VL041927.D

Acq: 20 Jan 2025 19:17

Instrument :

MSVOA_L

ClientSampleId :

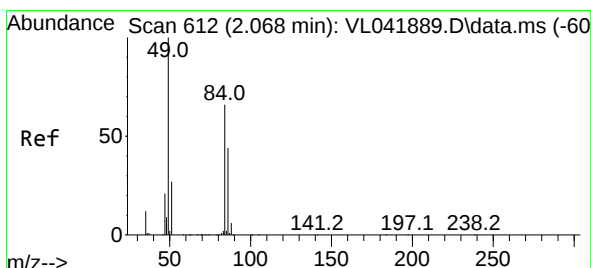
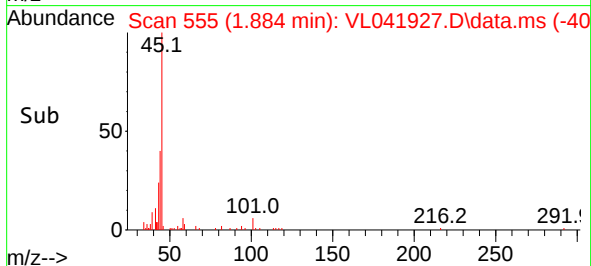
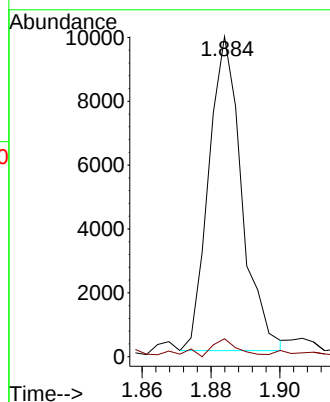


Tgt Ion: 45 Resp: 6564

Ion Ratio Lower Upper

45 100

58 212.5 35.0 52.6#



#20

Methylene Chloride

Concen: 0.308 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.010 min

Lab File: VL041927.D

Acq: 20 Jan 2025 19:17

Tgt Ion: 84 Resp: 1992

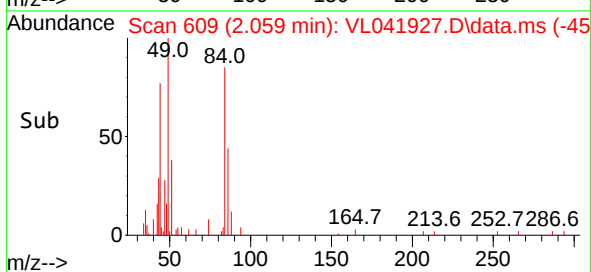
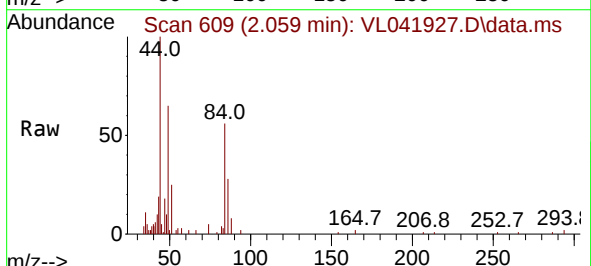
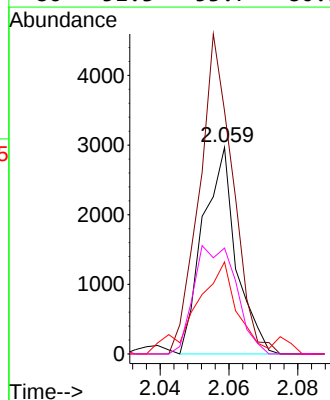
Ion Ratio Lower Upper

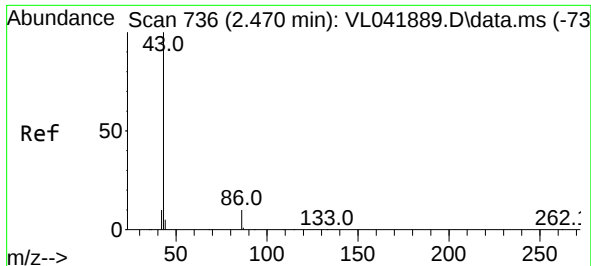
84 100

49 121.6 123.1 184.7#

51 36.8 35.8 53.8

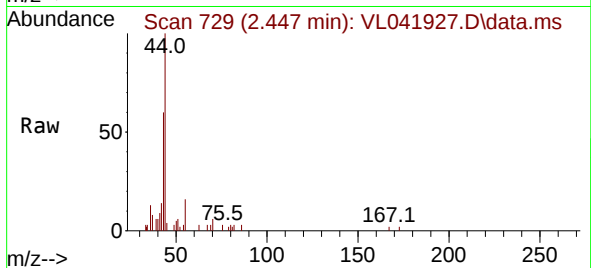
86 51.3 53.7 80.5#



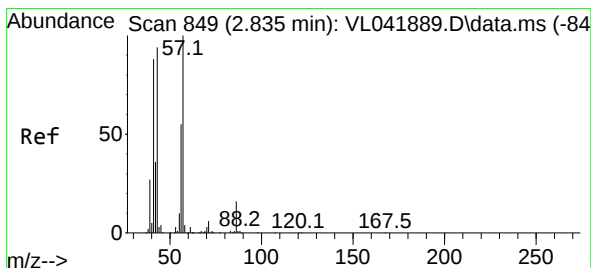
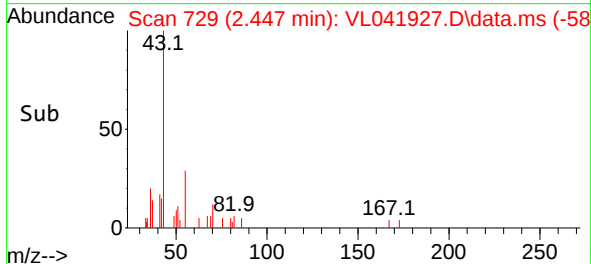
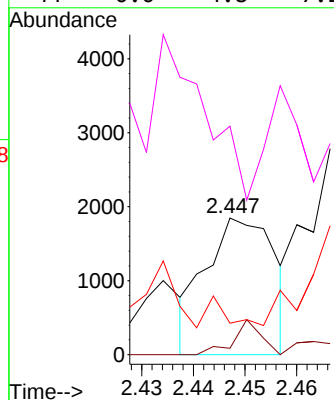


#23
 Vinyl Acetate
 Concen: 0.211 ppbv
 RT: 2.447 min Scan# 71
 Delta R.T. -0.023 min
 Lab File: VL041927.D
 Acq: 20 Jan 2025 19:17

Instrument :
 MSVOA_L
 ClientSampleId :

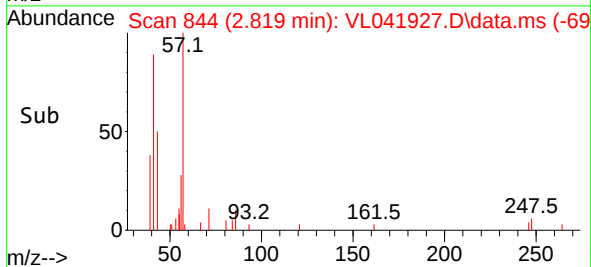
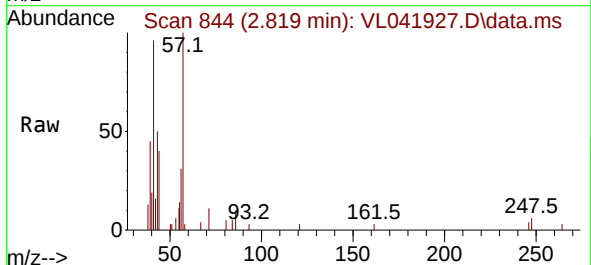
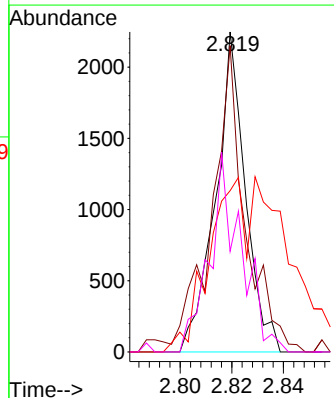


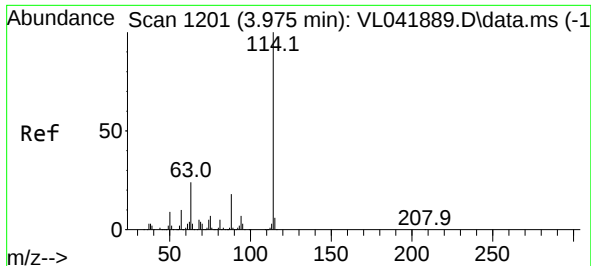
Tgt Ion: 43	Resp: 1709
Ion Ratio	Lower Upper
43 100	
86 8.0	6.2 9.4
42 0.0	8.5 12.7#
44 0.0	4.8 7.2#



#26
 Hexane
 Concen: 0.103 ppbv
 RT: 2.819 min Scan# 844
 Delta R.T. -0.016 min
 Lab File: VL041927.D
 Acq: 20 Jan 2025 19:17

Tgt Ion: 57	Resp: 1801
Ion Ratio	Lower Upper
57 100	
41 115.5	73.8 110.8#
43 152.7	197.3 295.9#
56 67.1	42.7 64.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.026 min

Lab File: VL041927.D

Acq: 20 Jan 2025 19:17

Instrument :

MSVOA_L

ClientSampleId :

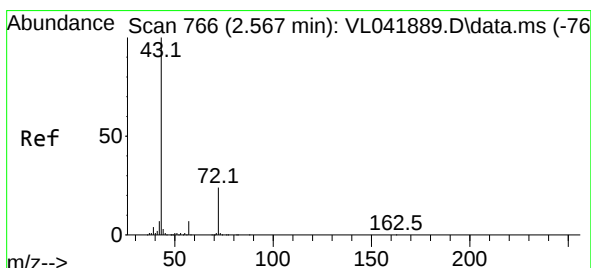
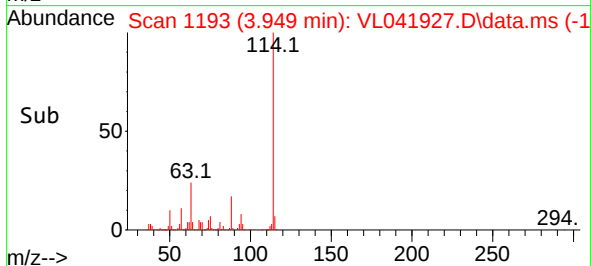
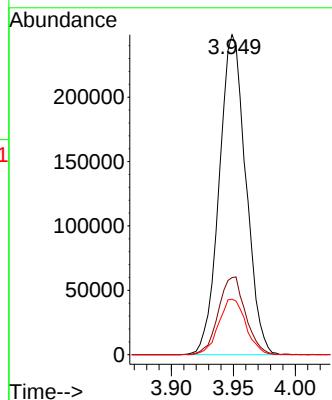
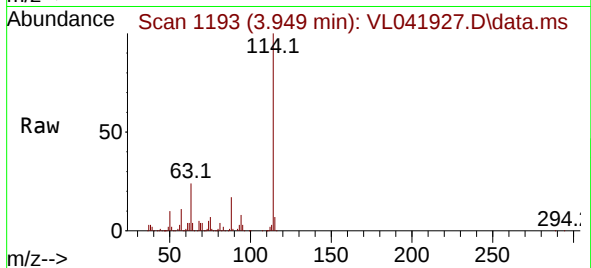
Tgt Ion:114 Resp: 372383

Ion Ratio Lower Upper

114 100

63 24.8 19.8 29.6

88 17.7 14.4 21.6



#34

2-Butanone

Concen: 0.202 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.010 min

Lab File: VL041927.D

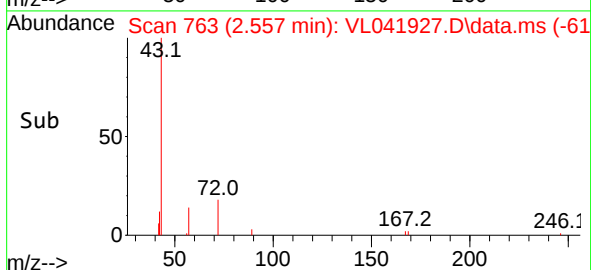
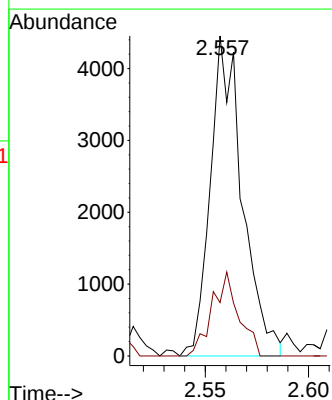
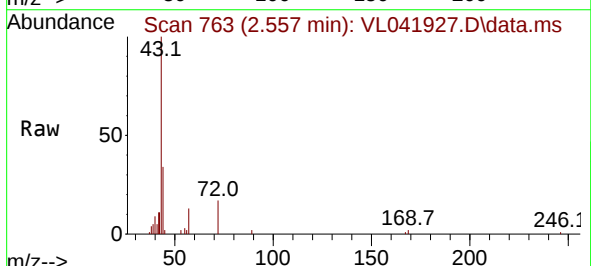
Acq: 20 Jan 2025 19:17

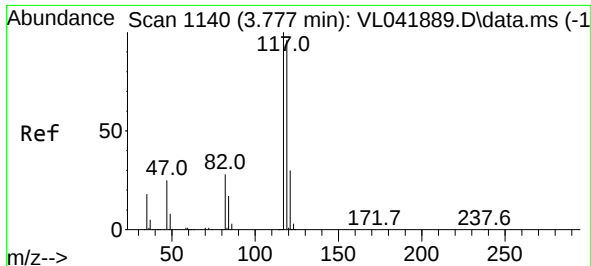
Tgt Ion: 43 Resp: 4785

Ion Ratio Lower Upper

43 100

72 21.8 18.6 28.0

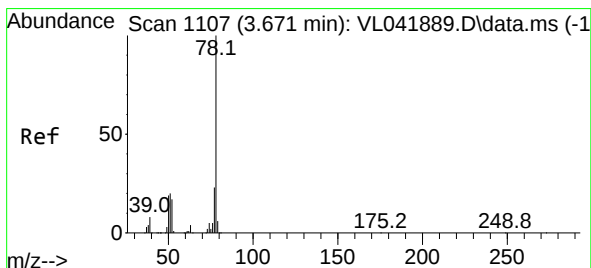
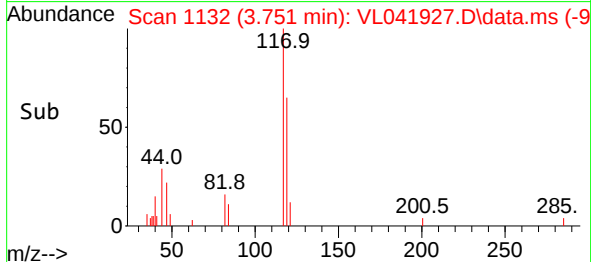
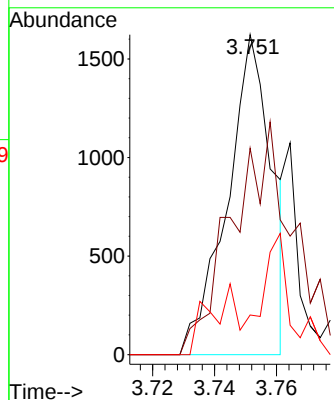
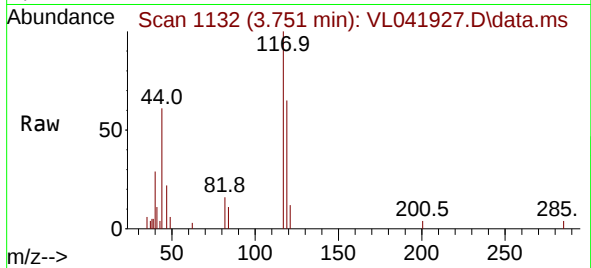




#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 3.751 min Scan# 1112
Delta R.T. -0.026 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

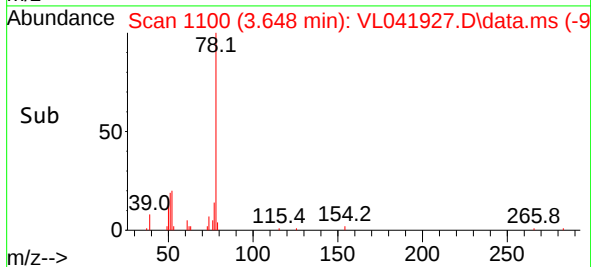
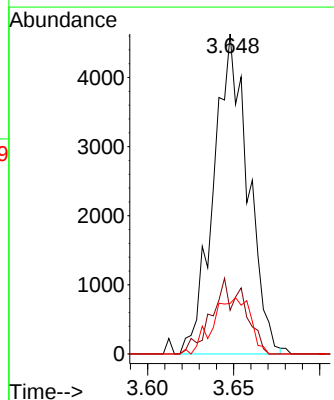
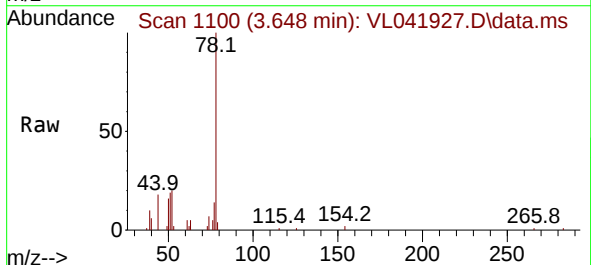
Instrument :
MSVOA_L
ClientSampleId :

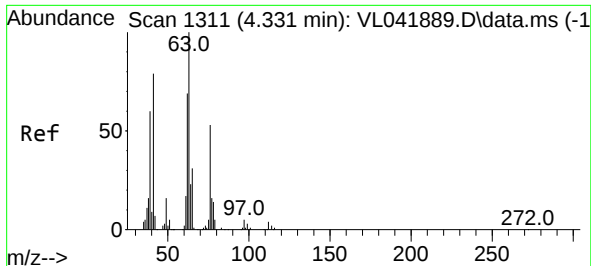
Tgt Ion:117 Resp: 1612
Ion Ratio Lower Upper
117 100
119 64.5 76.9 115.3#
121 12.4 23.8 35.6#



#36
Benzene
Concen: 0.189 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.023 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

Tgt Ion: 78 Resp: 6457
Ion Ratio Lower Upper
78 100
77 13.7 18.1 27.1#
50 15.8 15.2 22.8





#39

1,2-Dichloropropane

Concen: 7.686 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.379 min

Lab File: VL041927.D

Acq: 20 Jan 2025 19:17

Instrument :

MSVOA_L

ClientSampleId :

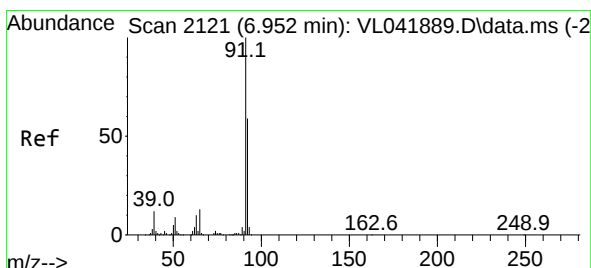
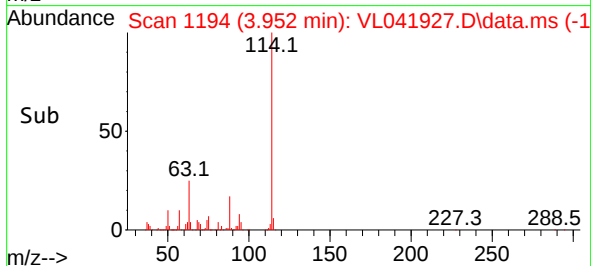
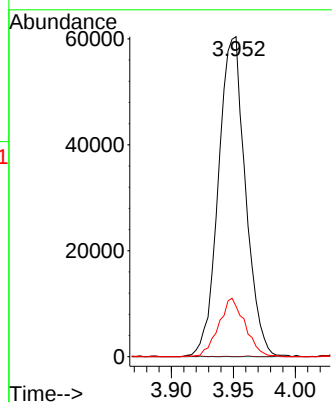
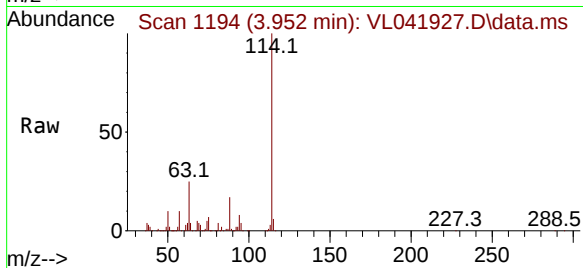
Tgt Ion: 63 Resp: 92084

Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 15.8 55.4 83.2#



#53

Toluene

Concen: 0.080 ppbv

RT: 6.914 min Scan# 2109

Delta R.T. -0.039 min

Lab File: VL041927.D

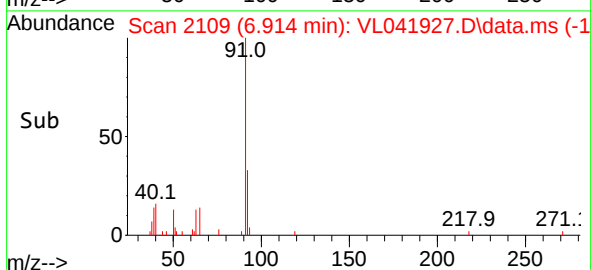
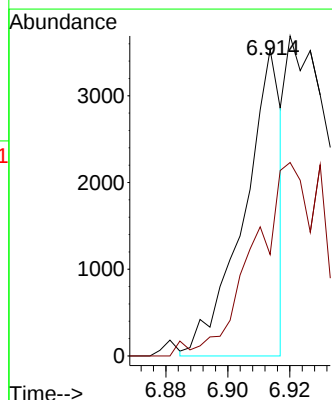
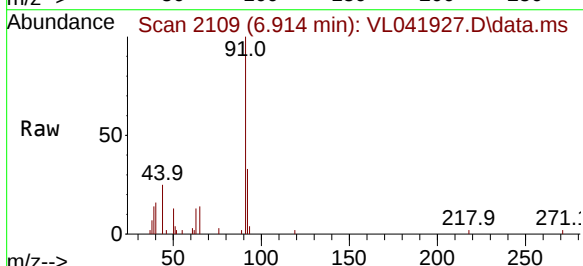
Acq: 20 Jan 2025 19:17

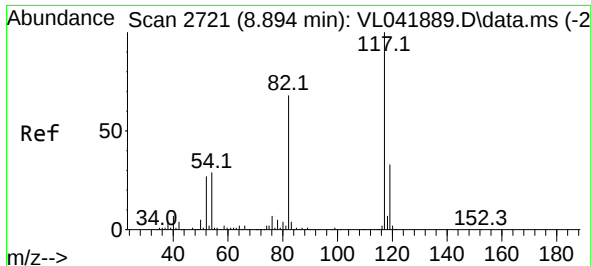
Tgt Ion: 91 Resp: 2971

Ion Ratio Lower Upper

91 100

92 0.0 47.4 71.0#

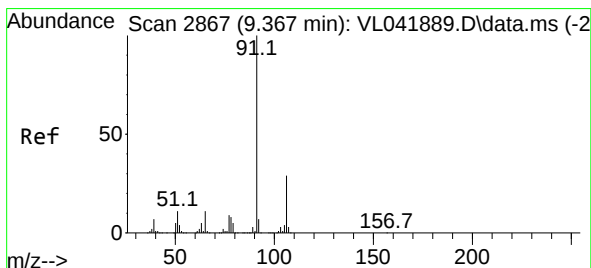
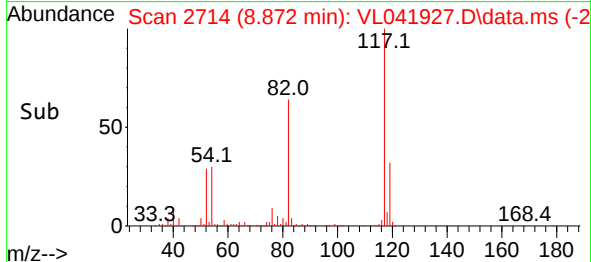
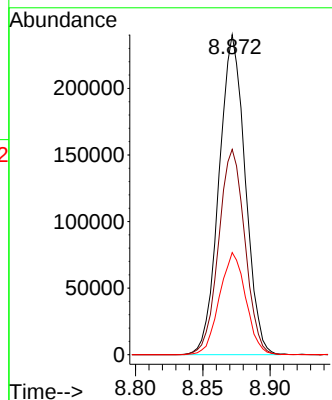
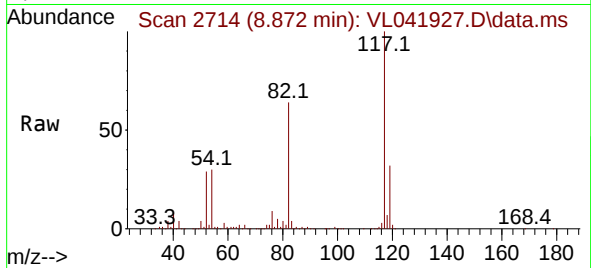




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

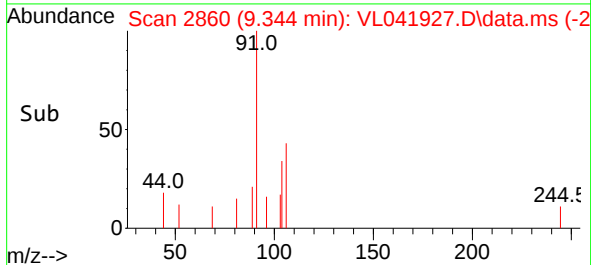
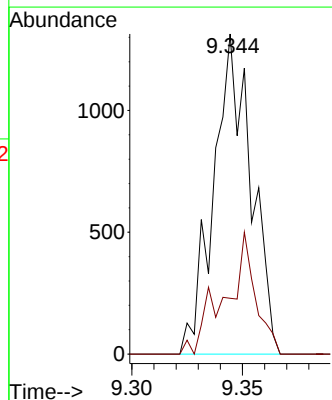
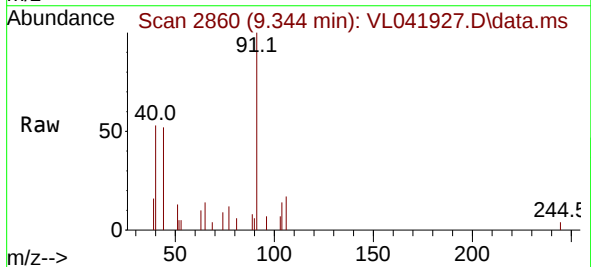
Instrument :
MSVOA_L
ClientSampleId :

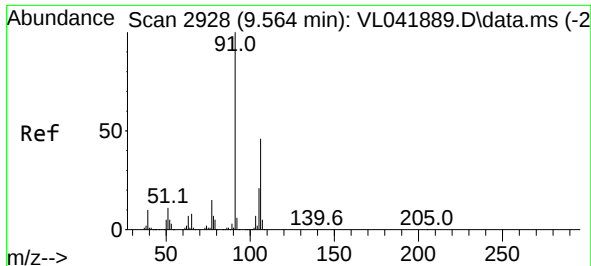
Tgt Ion:117 Resp: 324406
Ion Ratio Lower Upper
117 100
82 64.6 54.2 81.4
119 32.1 25.0 37.6



#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.023 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

Tgt Ion: 91 Resp: 1547
Ion Ratio Lower Upper
91 100
106 17.4 23.1 34.7#

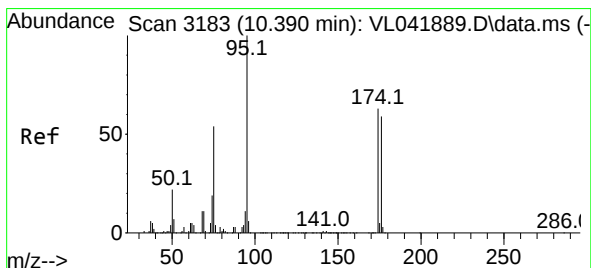
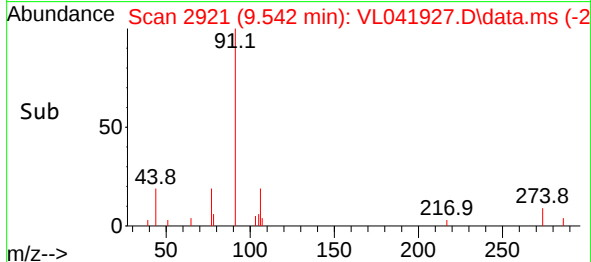
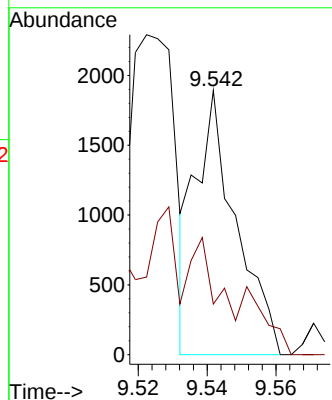
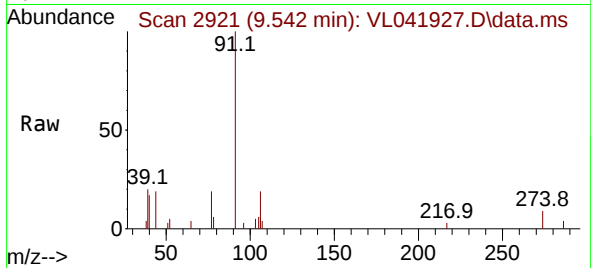




#59
m/p-Xylene
Concen: 0.038 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.023 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 1556
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.069 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.023 min
Lab File: VL041927.D
Acq: 20 Jan 2025 19:17

Tgt Ion: 95 Resp: 257279
Ion Ratio Lower Upper
95 100
174 58.7 49.0 73.4
175 4.3 3.8 5.8

