

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042816.D
 Acq On : 04 Aug 2025 21:23
 Operator : SY/MD
 Sample : Q2750-05DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

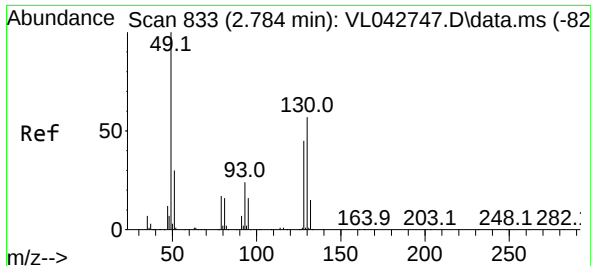
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:13:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	149392	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	386690	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	329987	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	255046	9.760	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	662	0.034	ppbv	90
3) Chlorodifluoromethane	1.473	51	125546	4.879	ppbv	99
4) Chloromethane	1.531	50	450	0.056	ppbv #	85
7) Chloroethane	1.706	64	81	0.027	ppbv #	45
9) Propene	1.897	41	1246761	133.321	ppbv	94
13) Ethanol	1.722	45	266265	389.889	ppbv	89
15) Acetone	1.835	43	173387	8.405	ppbv	99
16) 1,3-Butadiene	1.560	39	15065	1.712	ppbv #	18
17) tert-Butyl alcohol	1.897	59	556007	29.885	ppbv	95
19) Isopropyl Alcohol	1.897	45	4676481	426.595	ppbv #	40
20) Methylene Chloride	2.065	84	1787	0.275	ppbv #	75
21) Allyl Chloride	1.897	41	1246761	98.064	ppbv #	84
25) Ethyl Acetate	2.839	43	8979	0.197	ppbv #	64
26) Hexane	2.836	57	1328	0.066	ppbv #	1
27) Carbon Disulfide	2.153	76	2754	0.161	ppbv #	1
29) Chloroform	2.845	83	639	0.021	ppbv	87
34) 2-Butanone	2.557	43	747	0.027	ppbv #	54
39) 1,2-Dichloropropane	3.959	63	101418	7.497	ppbv #	21
66) Benzyl Chloride	11.549	91	217	0.048	ppbv #	73
79) Naphthalene	13.491	128	19	0.435	ppbv #	69
80) Naphthalene,2-methyl-	14.523	142	54	1.130	ppbv #	58
81) 1,2,4-Trichlorobenzene	13.474	180	48	0.437	ppbv #	36

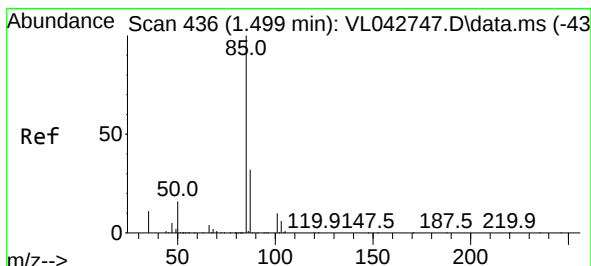
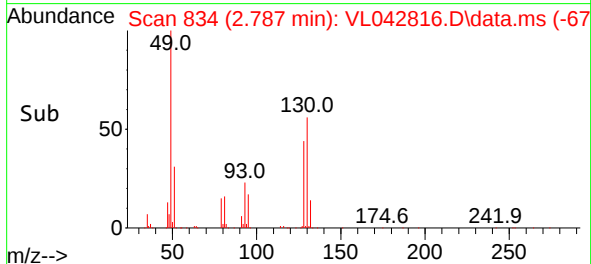
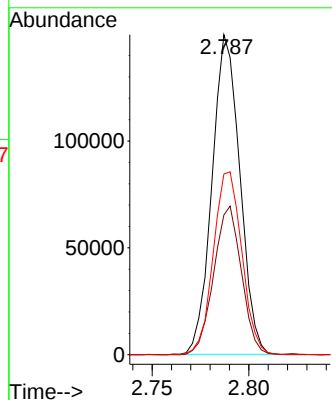
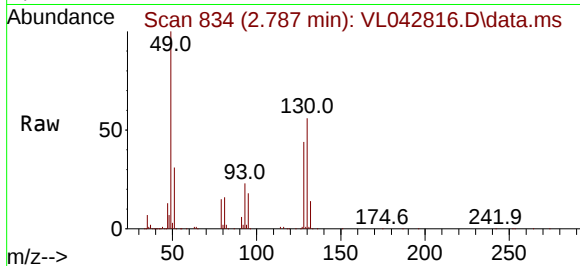
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 833
 Delta R.T. 0.003 min
 Lab File: VL042816.D
 Acq: 04 Aug 2025 21:23

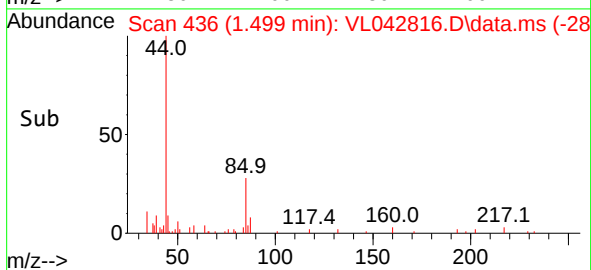
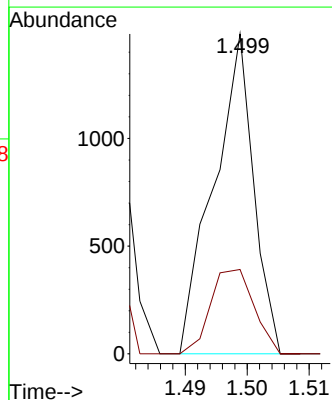
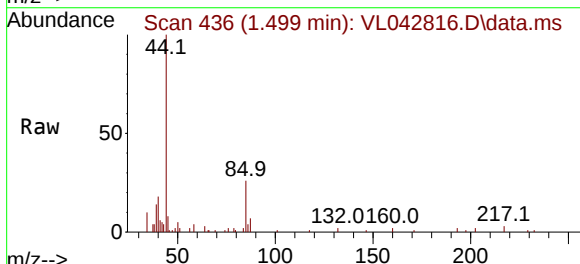
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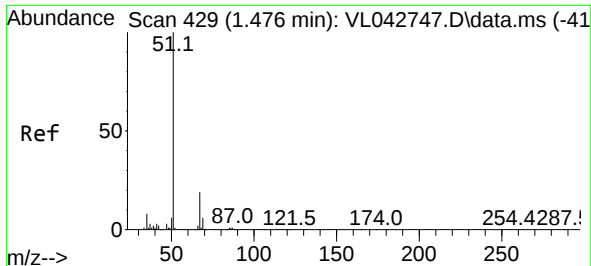
Tgt Ion: 49 Resp: 149392
 Ion Ratio Lower Upper
 49 100
 128 46.4 23.6 71.0
 130 58.8 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.034 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042816.D
 Acq: 04 Aug 2025 21:23

Tgt Ion: 85 Resp: 662
 Ion Ratio Lower Upper
 85 100
 87 26.4 25.4 38.2

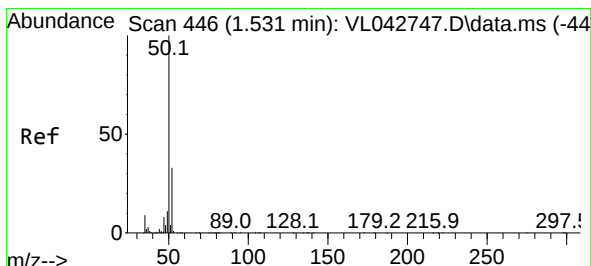
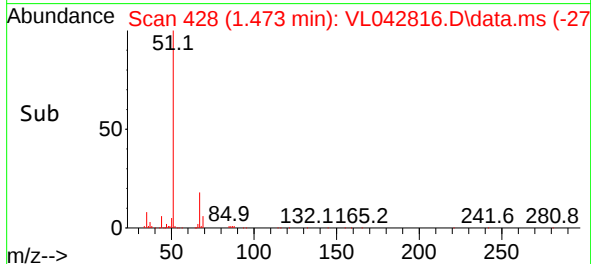
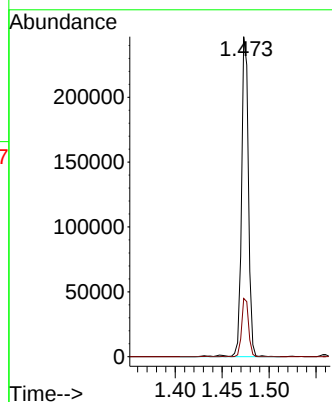
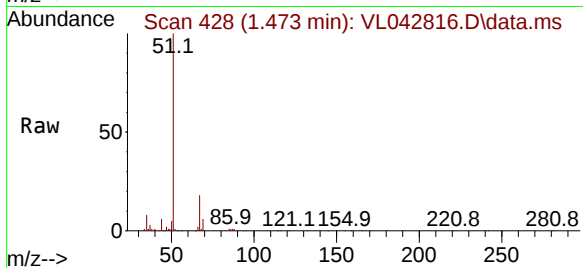




#3
Chlorodifluoromethane
Concen: 4.879 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

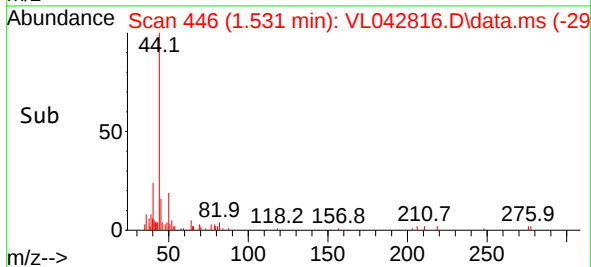
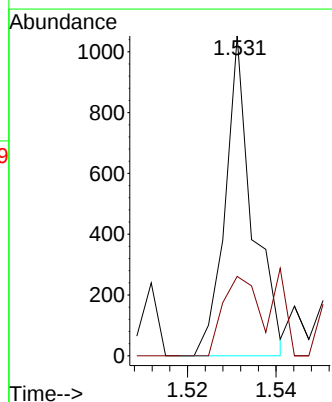
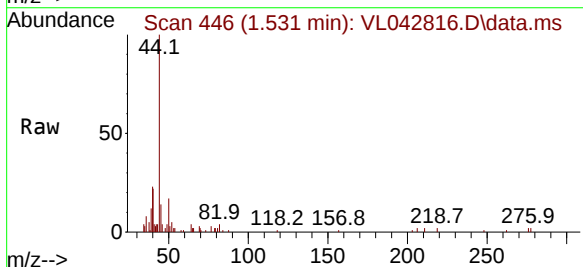
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ClientSampleId :

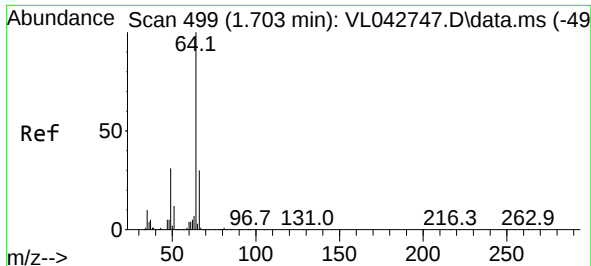
Tgt Ion: 51 Resp: 125546
Ion Ratio Lower Upper
51 100
67 18.2 15.0 22.6



#4
Chloromethane
Concen: 0.056 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 50 Resp: 450
Ion Ratio Lower Upper
50 100
52 24.8 26.6 40.0#

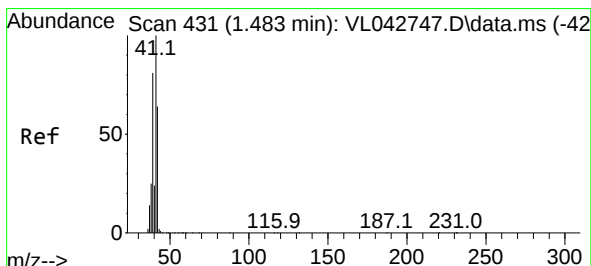
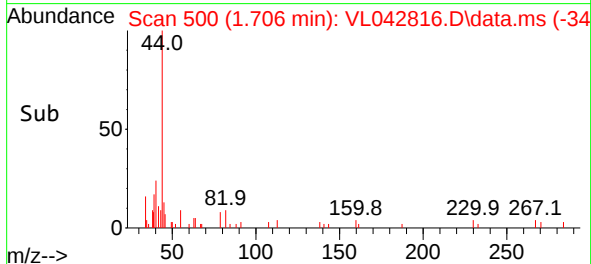
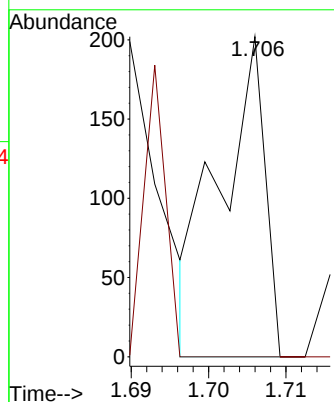
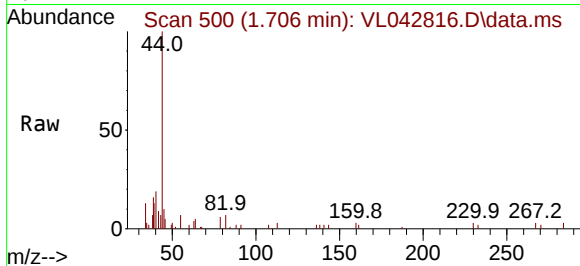




#7
Chloroethane
Concen: 0.027 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

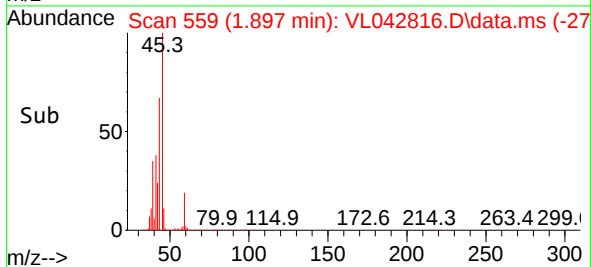
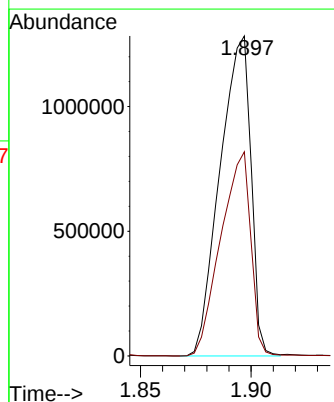
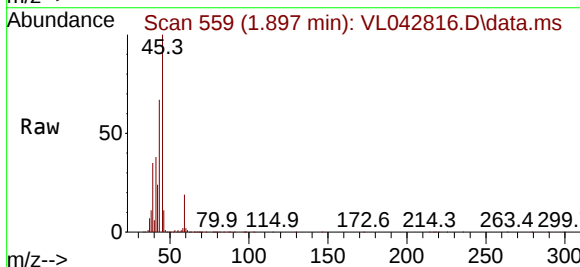
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ClientSampleId :

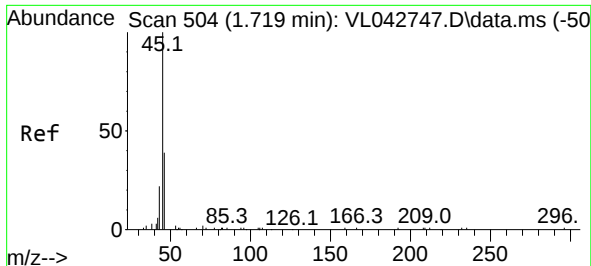
Tgt Ion: 64 Resp: 81
Ion Ratio Lower Upper
64 100
66 0.0 24.1 36.1#



#9
Propene
Concen: 133.321 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.414 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 41 Resp: 1246761
Ion Ratio Lower Upper
41 100
42 61.8 53.2 79.8

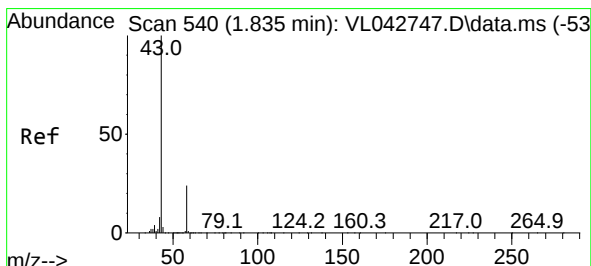
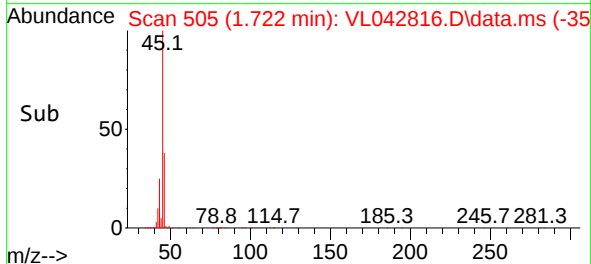
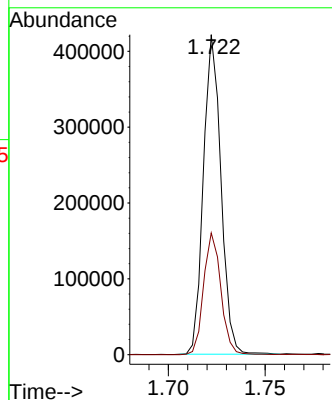
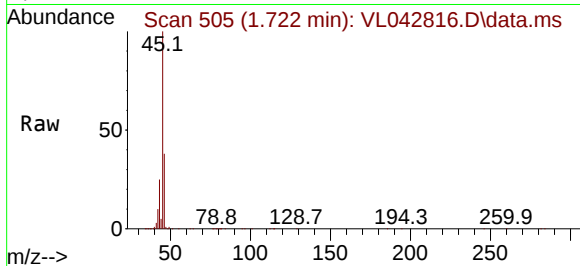




#13
 Ethanol
 Concen: 389.889 ppbv
 RT: 1.722 min Scan# 50
 Delta R.T. 0.003 min
 Lab File: VL042816.D
 Acq: 04 Aug 2025 21:23

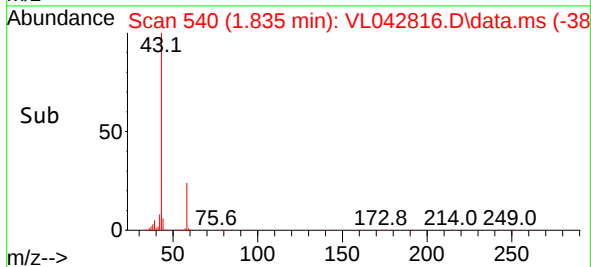
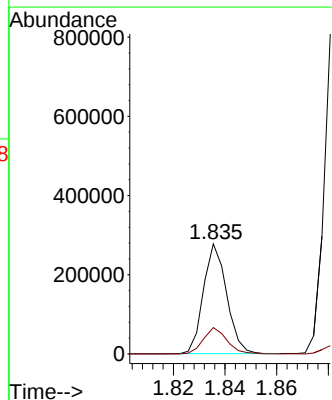
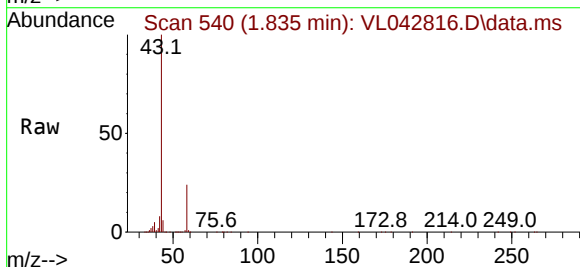
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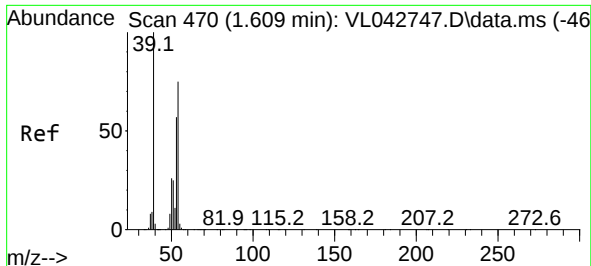
Tgt Ion: 45 Resp: 266265
 Ion Ratio Lower Upper
 45 100
 46 37.7 17.8 71.4



#15
 Acetone
 Concen: 8.405 ppbv
 RT: 1.835 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: VL042816.D
 Acq: 04 Aug 2025 21:23

Tgt Ion: 43 Resp: 173387
 Ion Ratio Lower Upper
 43 100
 58 24.5 19.8 29.8

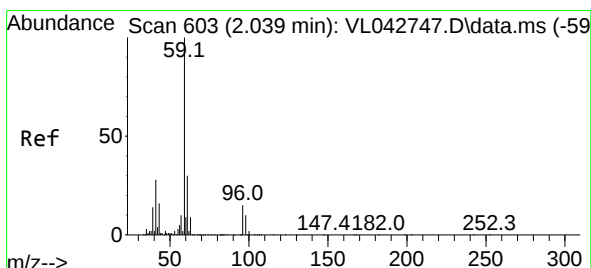
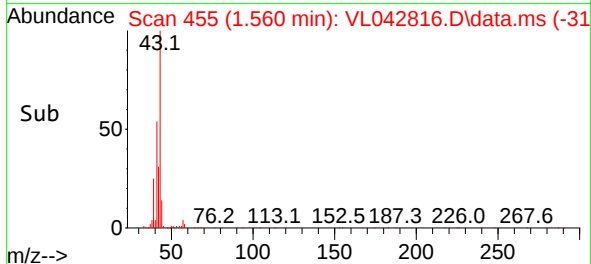
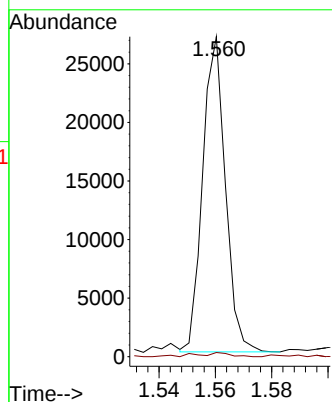
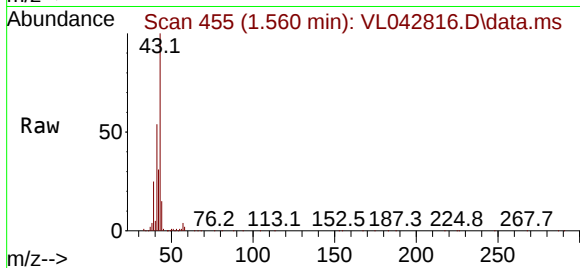




#16
1,3-Butadiene
Concen: 1.712 ppbv
RT: 1.560 min Scan# 41
Delta R.T. -0.049 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

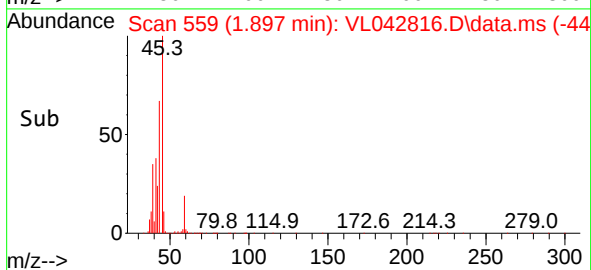
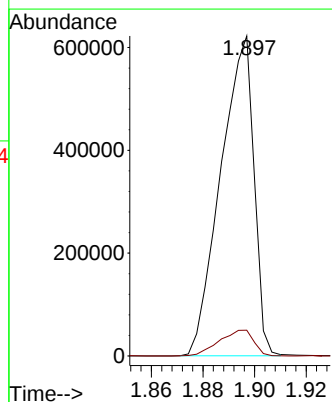
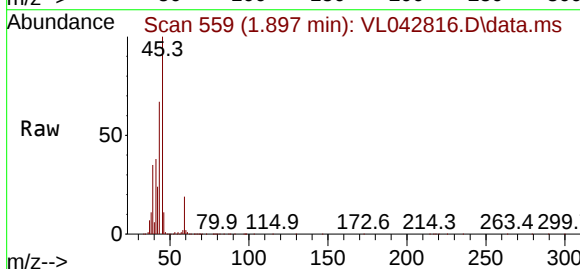
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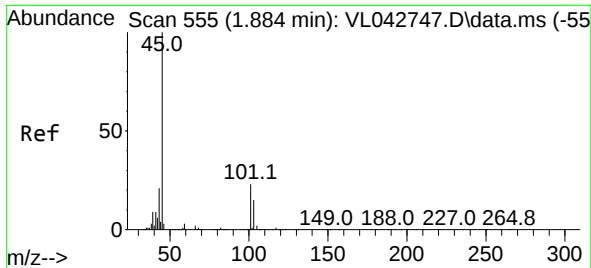
Tgt Ion: 39 Resp: 15065
Ion Ratio Lower Upper
39 100
54 1.9 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 29.885 ppbv
RT: 1.897 min Scan# 559
Delta R.T. -0.142 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 59 Resp: 556007
Ion Ratio Lower Upper
59 100
57 8.5 8.3 12.5

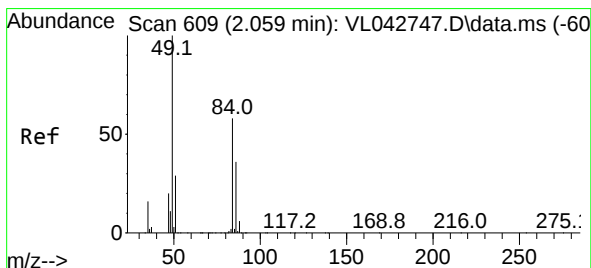
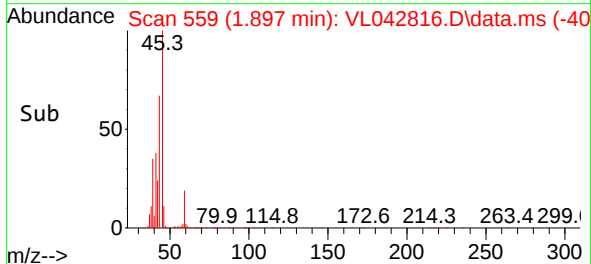
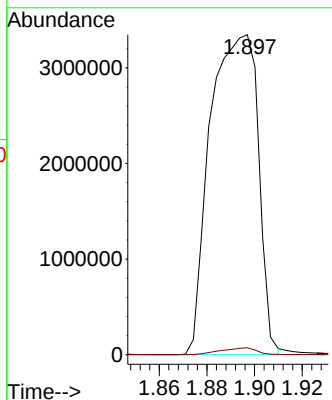
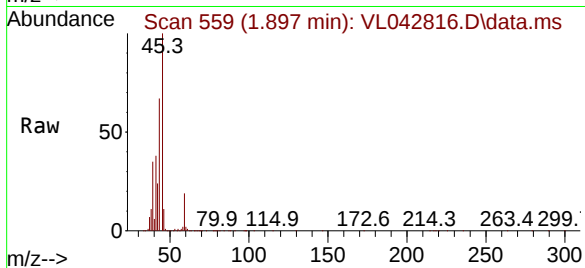




#19
Isopropyl Alcohol
Concen: 426.595 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

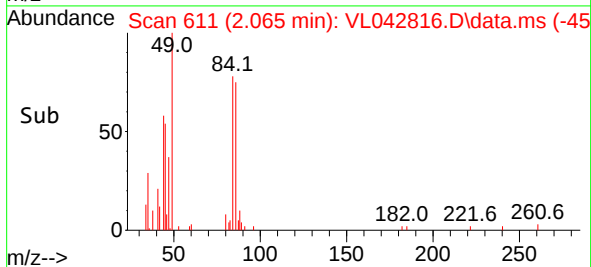
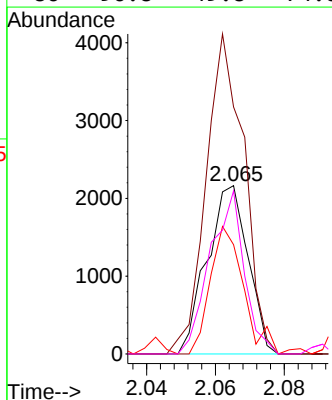
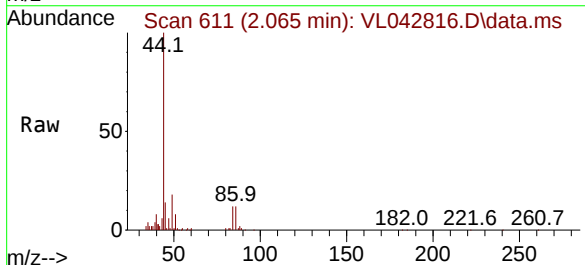
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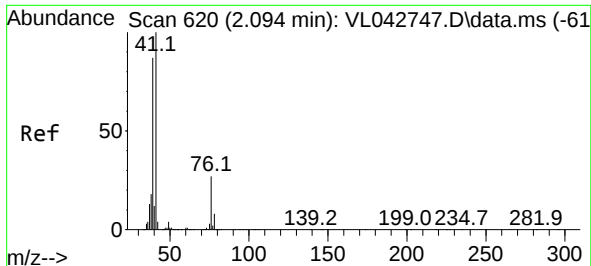
Tgt Ion: 45 Resp: 4676481
Ion Ratio Lower Upper
45 100
58 1.6 30.0 45.0#



#20
Methylene Chloride
Concen: 0.275 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 84 Resp: 1787
Ion Ratio Lower Upper
84 100
49 146.7 138.6 208.0
51 64.9 40.6 61.0#
86 96.8 49.8 74.8#

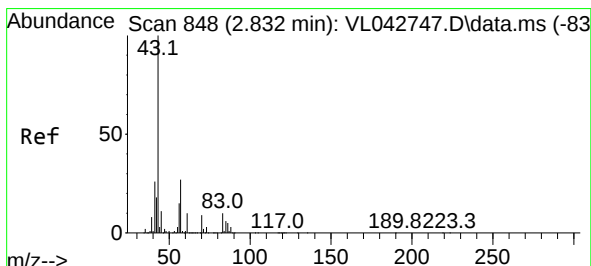
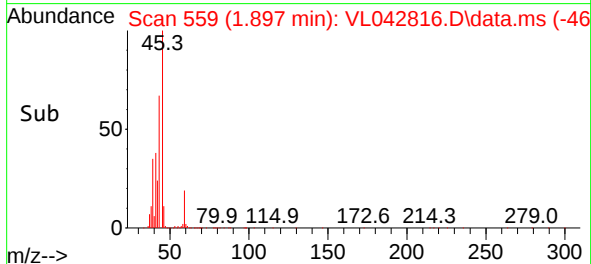
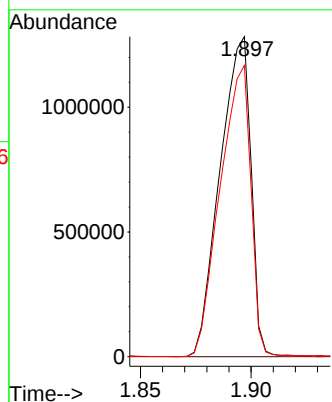
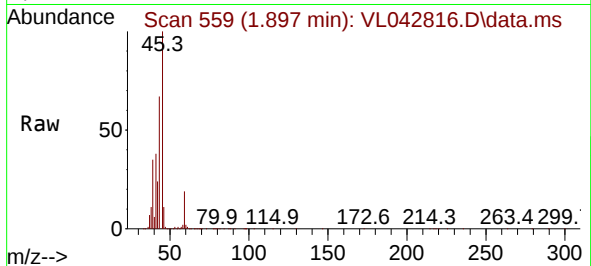




#21
 Allyl Chloride
 Concen: 98.064 ppbv
 RT: 1.897 min Scan# 51
 Delta R.T. -0.197 min
 Lab File: VL042816.D
 Acq: 04 Aug 2025 21:23

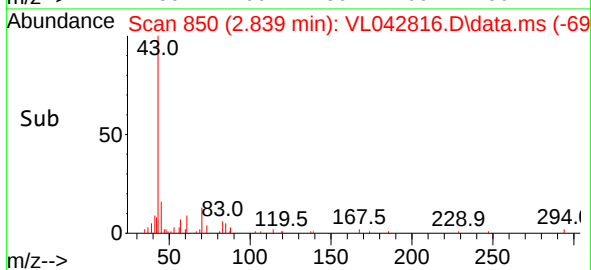
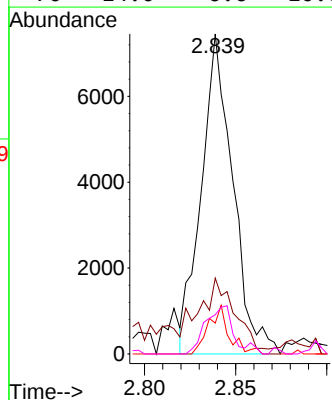
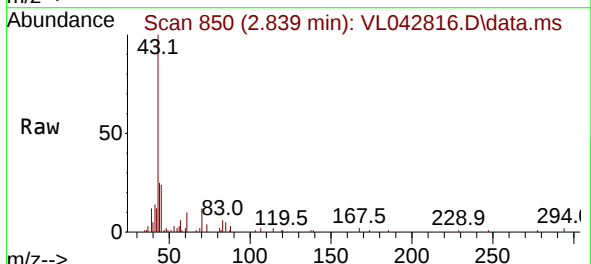
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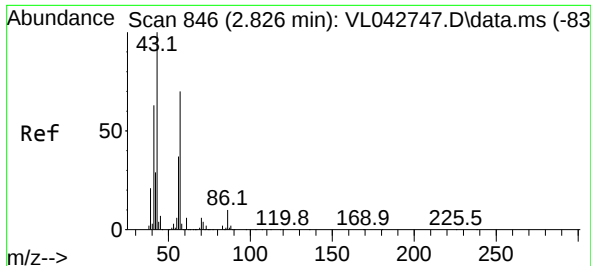
Tgt Ion: 41 Resp: 1246761
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.1 31.7#
 39 90.3 68.3 102.5



#25
 Ethyl Acetate
 Concen: 0.197 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. 0.006 min
 Lab File: VL042816.D
 Acq: 04 Aug 2025 21:23

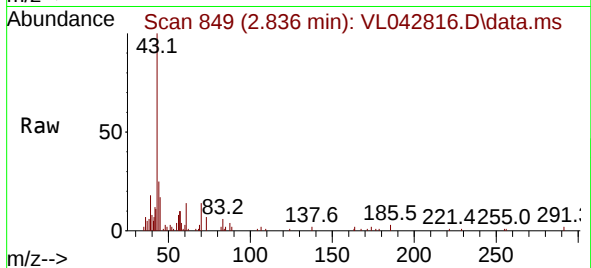
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 Ion Ratio Lower Upper
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 61 9.9 6.7 10.1
 70 14.0 6.6 10.0#



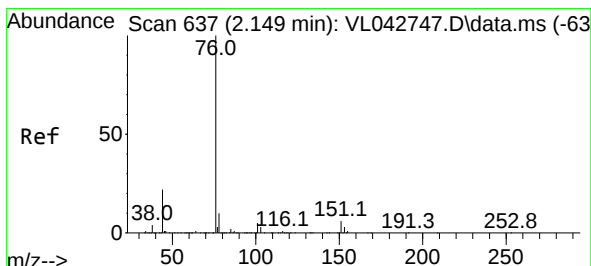
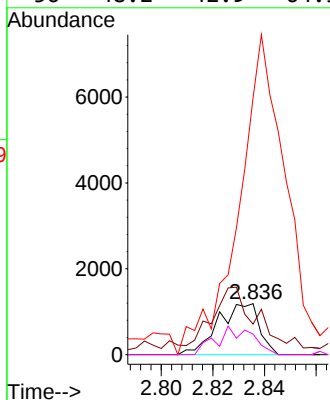
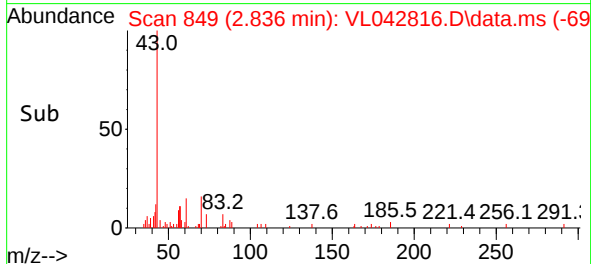


#26
Hexane
Concen: 0.066 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

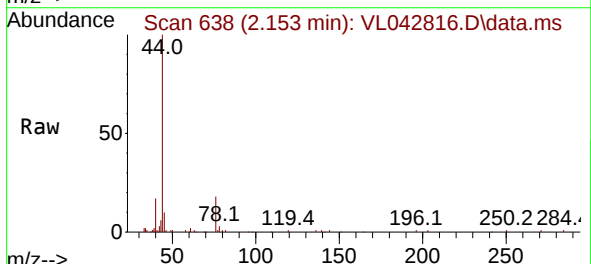
Instrument :
MSVOA_L
ClientSampleId :



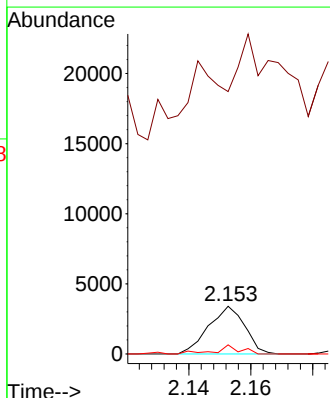
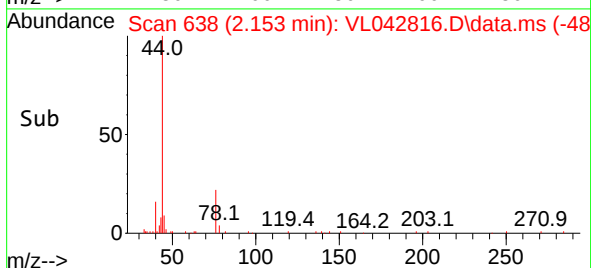
Tgt Ion: 57 Resp: 1328
Ion Ratio Lower Upper
57 100
41 192.9 75.4 113.2#
43 781.7 185.0 277.6#
56 48.2 42.9 64.3

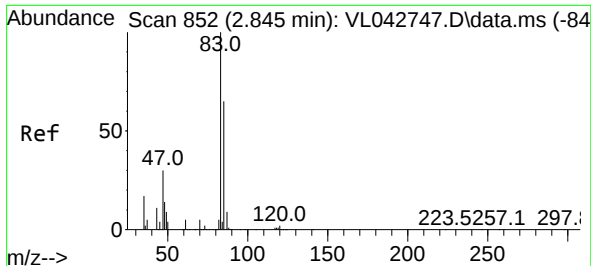


#27
Carbon Disulfide
Concen: 0.161 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23



Tgt Ion: 76 Resp: 2754
Ion Ratio Lower Upper
76 100
44 450.2 19.3 28.9#
78 13.7 9.9 14.9

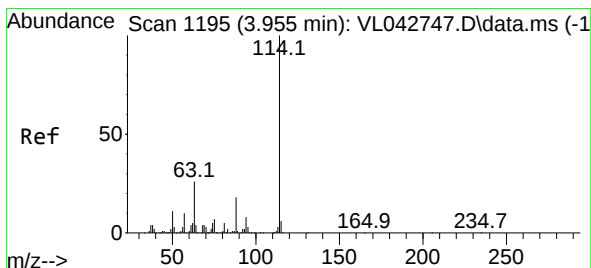
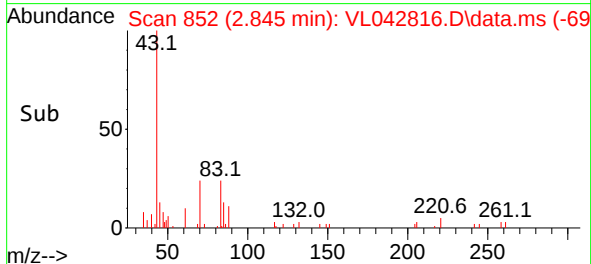
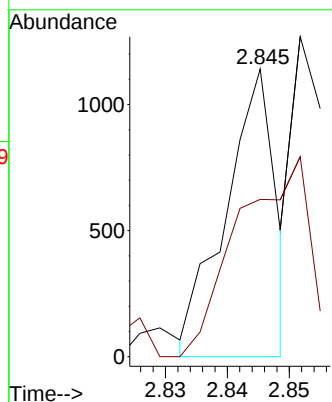
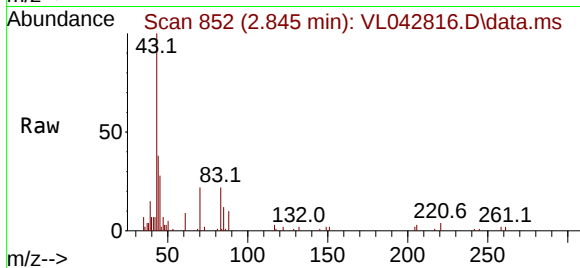




#29
Chloroform
Concen: 0.021 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

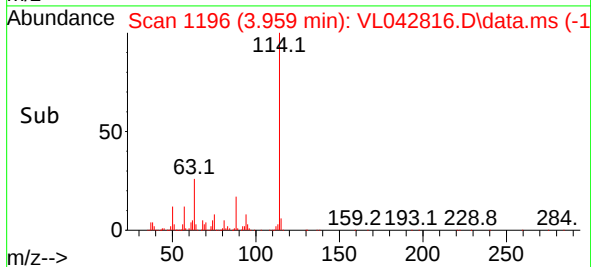
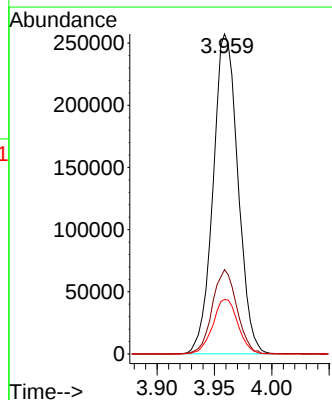
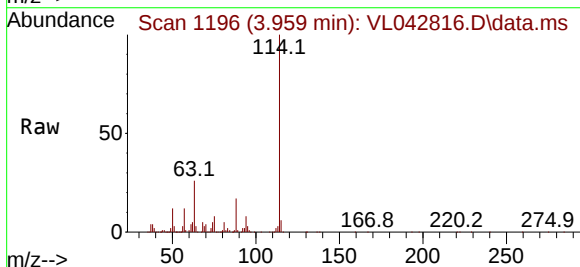
Instrument :
MSVOA_L
ClientSampleId :

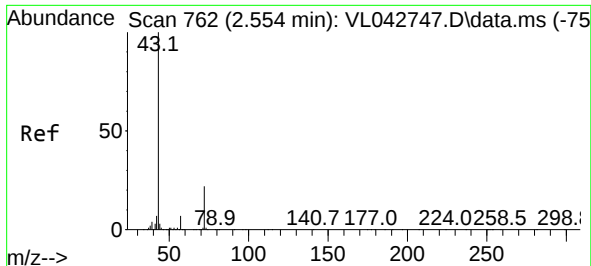
Tgt Ion: 83 Resp: 639
Ion Ratio Lower Upper
83 100
85 55.0 52.2 78.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 114 Resp: 386690
Ion Ratio Lower Upper
114 100
63 26.3 20.5 30.7
88 17.3 14.0 21.0

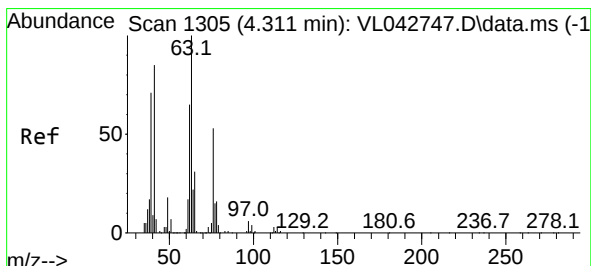
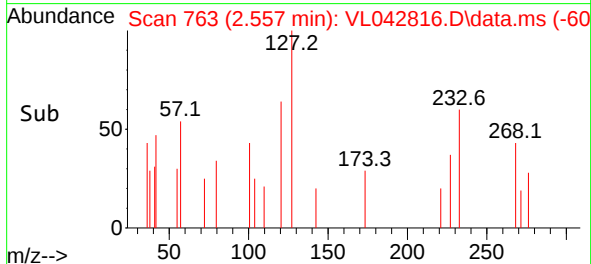
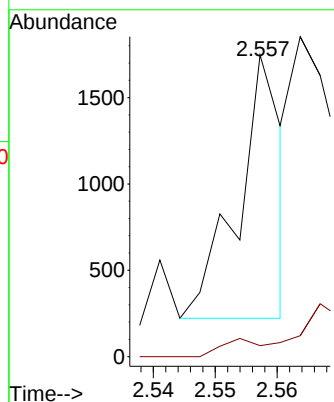
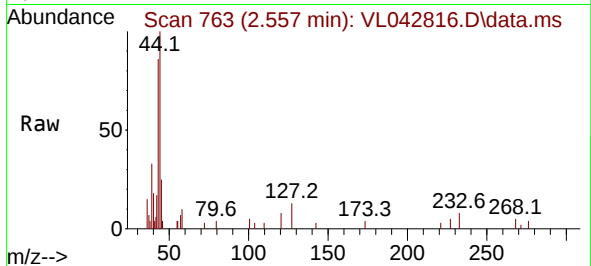




#34
2-Butanone
Concen: 0.027 ppbv
RT: 2.557 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

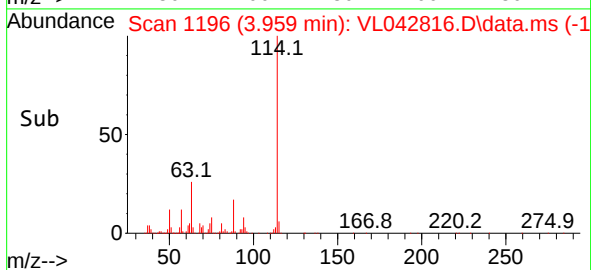
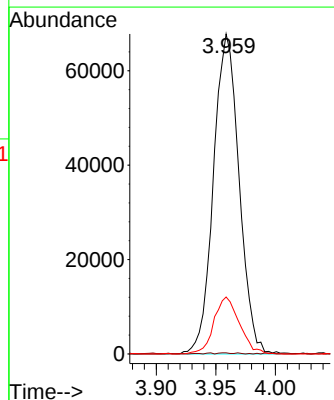
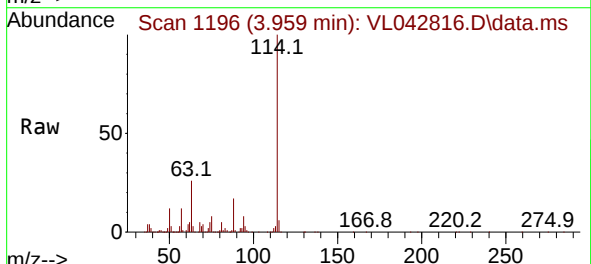
Instrument :
MSVOA_L
ClientSampleId :

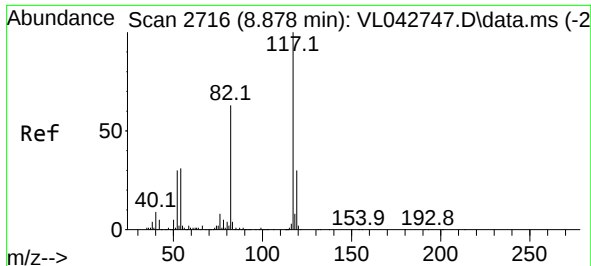
Tgt Ion: 43 Resp: 747
Ion Ratio Lower Upper
43 100
72 0.0 17.4 26.0#



#39
1,2-Dichloropropane
Concen: 7.497 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 63 Resp: 101418
Ion Ratio Lower Upper
63 100
41 0.3 68.2 102.4#
62 17.8 52.0 78.0#

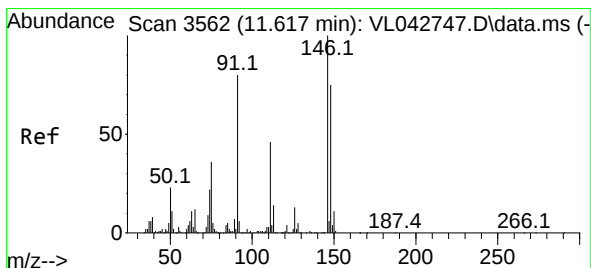
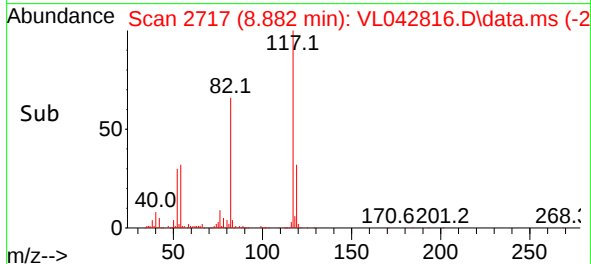
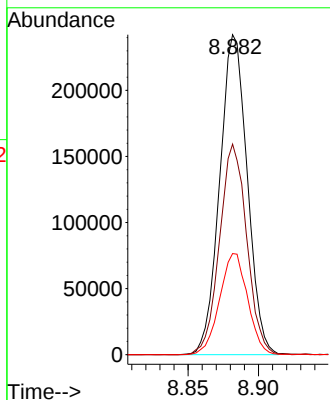
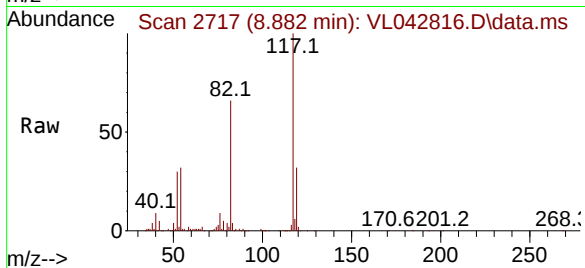




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

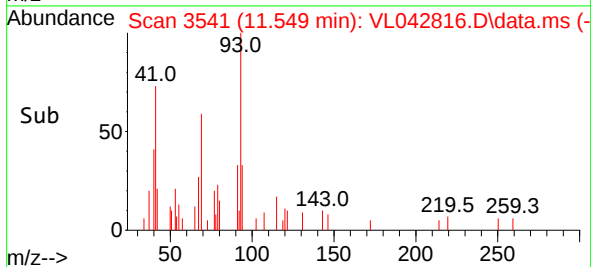
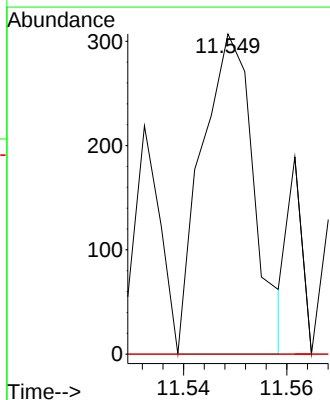
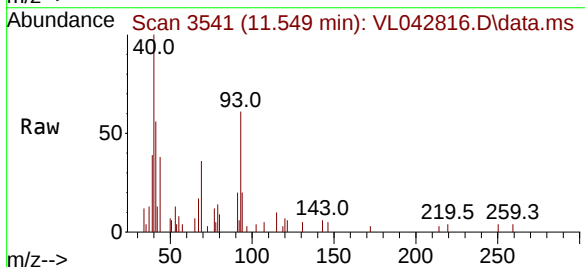
Instrument :
MSVOA_L
ClientSampleId :

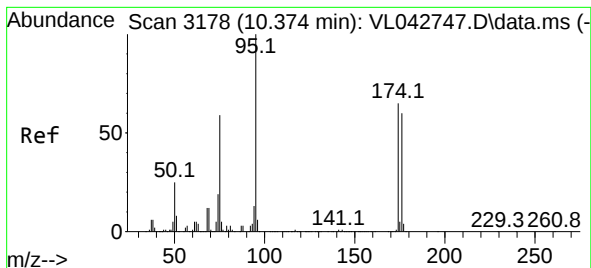
Tgt Ion:117 Resp: 329987
Ion Ratio Lower Upper
117 100
82 65.0 53.3 79.9
119 32.2 25.8 38.6



#66
Benzyl Chloride
Concen: 0.048 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.068 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 91 Resp: 217
Ion Ratio Lower Upper
91 100
126 15.2 14.4 21.6
128 35.5 5.2 7.8#

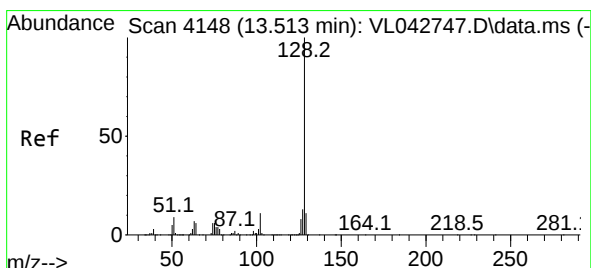
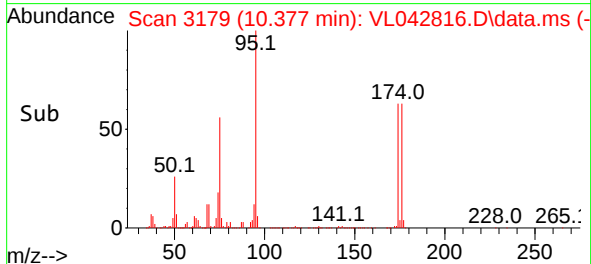
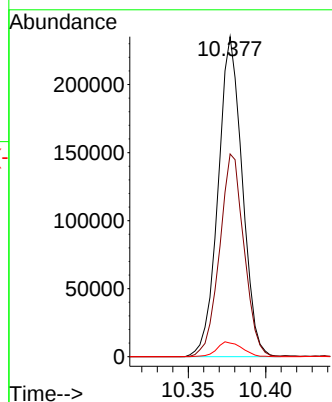
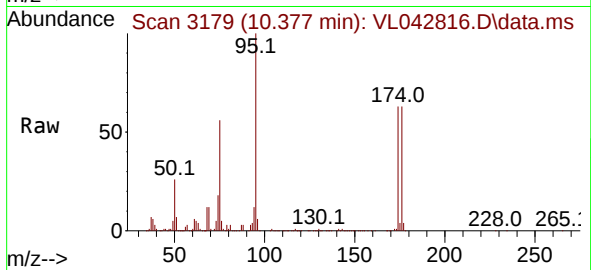




#68
1-Bromo-4-Fluorobenzene
Concen: 9.760 ppbv
RT: 10.377 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

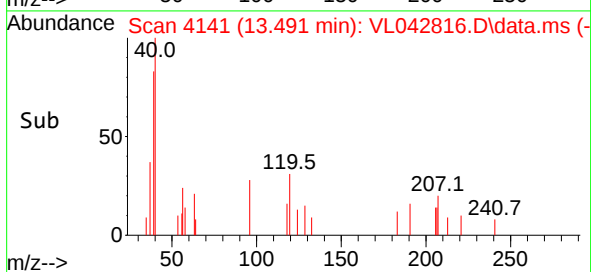
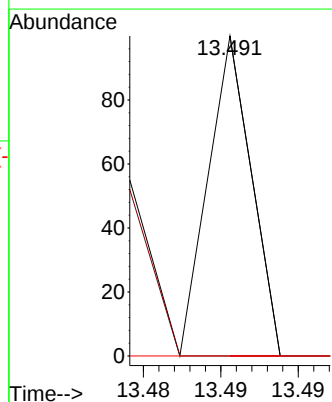
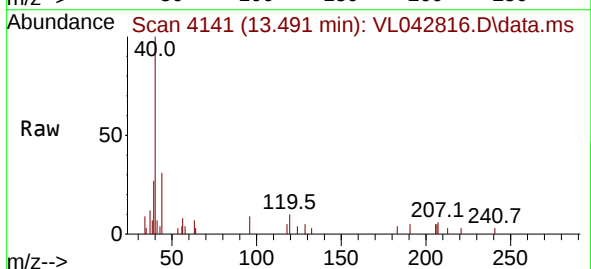
Instrument :
MSVOA_L
ClientSampleId :

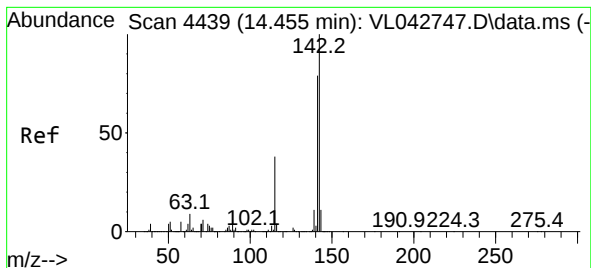
Tgt Ion: 95 Resp: 255046
Ion Ratio Lower Upper
95 100
174 64.6 53.8 80.6
175 4.8 4.0 6.0



#79
Naphthalene
Concen: 0.435 ppbv
RT: 13.491 min Scan# 4141
Delta R.T. -0.023 min
Lab File: VL042816.D
Acq: 04 Aug 2025 21:23

Tgt Ion: 128 Resp: 19
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#





#80

Naphthalene, 2-methyl-

Concen: 1.130 ppbv

RT: 14.523 min Scan# 4136

Delta R.T. 0.068 min

Lab File: VL042816.D

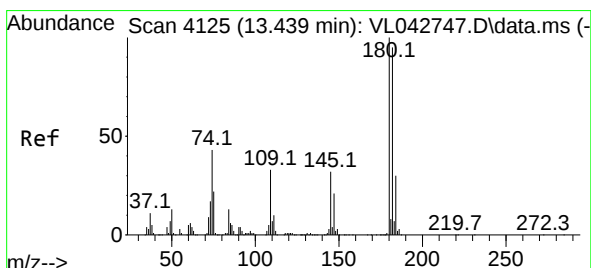
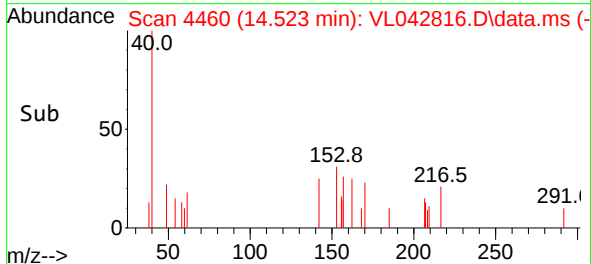
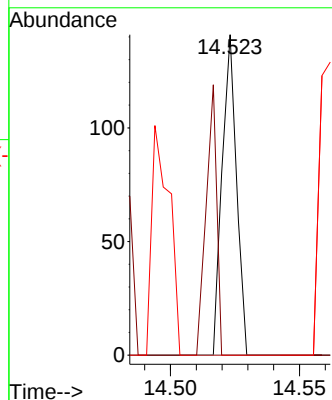
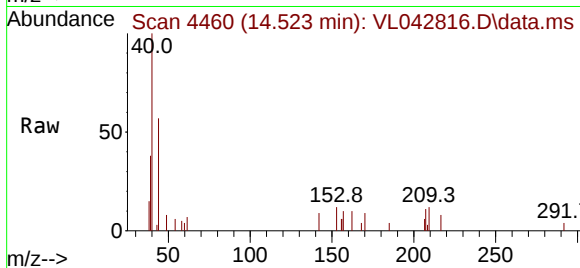
Acq: 04 Aug 2025 21:23

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:142	Resp:	54
Ion	Ratio	Lower Upper
142	100	
141	63.0	65.8 98.8#
115	90.7	31.2 46.8#



#81

1,2,4-Trichlorobenzene

Concen: 0.437 ppbv

RT: 13.474 min Scan# 4136

Delta R.T. 0.036 min

Lab File: VL042816.D

Acq: 04 Aug 2025 21:23

Tgt Ion:180	Resp:	48
Ion	Ratio	Lower Upper
180	100	
182	20.8	76.2 114.2#
184	45.8	24.8 37.2#

