

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042449.D
 Acq On : 29 Apr 2025 16:32
 Operator : SY/MD
 Sample : Q1880-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SC-SS01-20250423

Quant Time: Apr 30 01:22:50 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

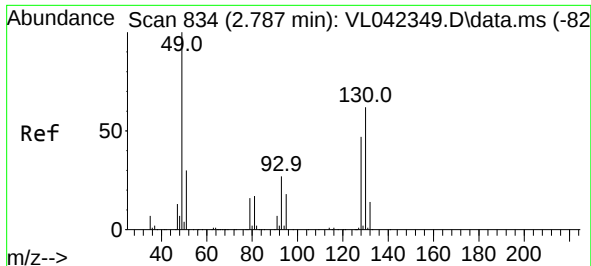
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	124520	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	329514	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	273576	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	247059	10.990	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	10375	0.472	ppbv	99
3) Chlorodifluoromethane	1.479	51	8011	0.382	ppbv #	89
4) Chloromethane	1.534	50	4212	0.484	ppbv	93
6) Bromomethane	1.677	94	191	0.047	ppbv #	46
7) Chloroethane	1.703	64	146	0.043	ppbv #	44
9) Propene	1.489	41	4143	0.434	ppbv #	15
11) Trichlorofluoromethane	1.881	101	6624	0.317	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	1053	0.062	ppbv	97
13) Ethanol	1.725	45	203780	134.382	ppbv	74
15) Acetone	1.842	43	137336	6.737	ppbv	90
16) 1,3-Butadiene	1.602	39	2502	0.257	ppbv #	33
17) tert-Butyl alcohol	2.049	59	8121	0.321	ppbv #	71
19) Isopropyl Alcohol	1.890	45	29711	2.624	ppbv #	4
20) Methylene Chloride	2.068	84	3425	0.429	ppbv #	83
21) Allyl Chloride	2.046	41	4149	0.295	ppbv #	93
23) Vinyl Acetate	2.463	43	3294	0.399	ppbv #	77
25) Ethyl Acetate	2.842	43	4666	0.093	ppbv #	74
26) Hexane	2.832	57	1906	0.094	ppbv #	1
27) Carbon Disulfide	2.156	76	707	0.032	ppbv #	1
30) Cyclohexane	3.865	84	15002	0.912	ppbv	98
34) 2-Butanone	2.567	43	9322	0.358	ppbv	96
35) Carbon Tetrachloride	3.774	117	1526	0.051	ppbv #	53
36) Benzene	3.664	78	3324	0.094	ppbv #	92
39) 1,2-Dichloropropane	3.968	63	95240	7.191	ppbv #	24
40) 1,4-Dioxane	4.629	88	255	0.035	ppbv #	1
53) Toluene	6.949	91	10506	0.246	ppbv #	32
58) Ethyl Benzene	9.542	91	1751	0.032	ppbv	96

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

Quant Time: Apr 30 01:22:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
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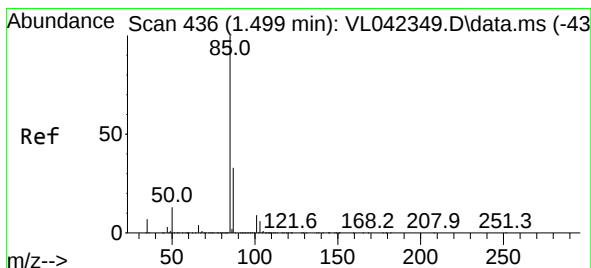
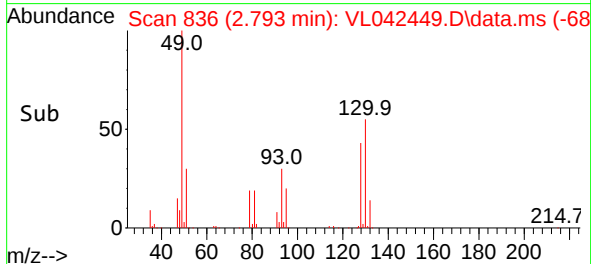
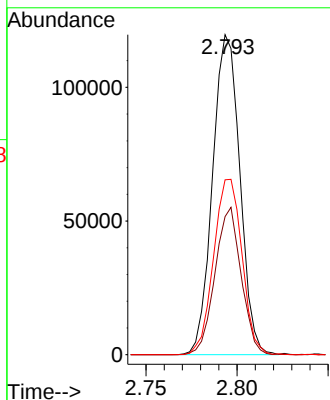
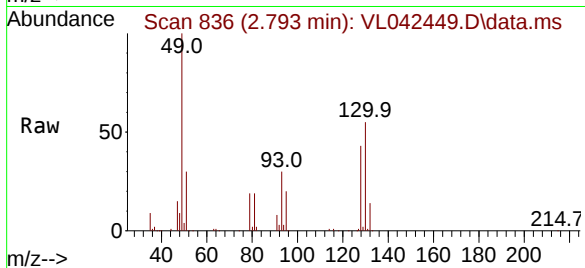




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

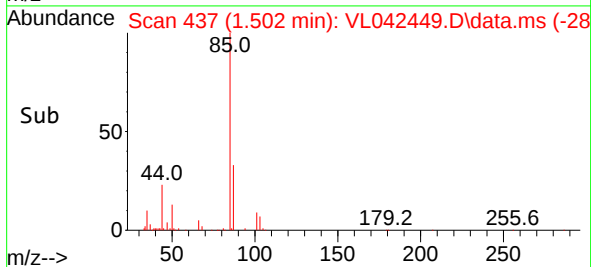
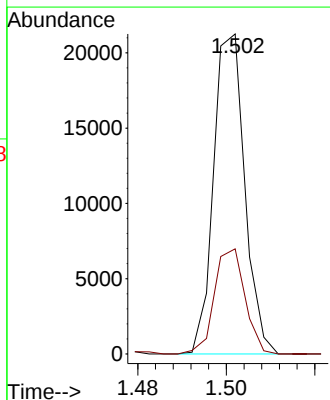
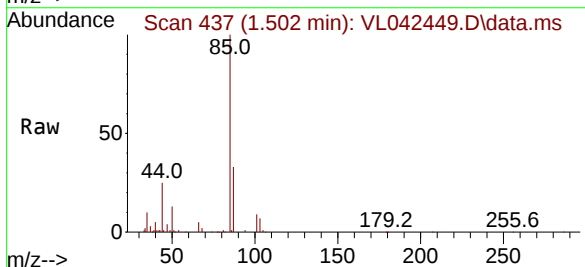
Instrument :
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ClientSampleId :
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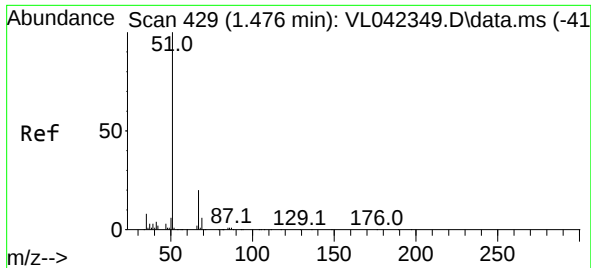
Tgt Ion: 49 Resp: 124520
Ion Ratio Lower Upper
49 100
128 44.2 22.8 68.4
130 57.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.472 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion: 85 Resp: 10375
Ion Ratio Lower Upper
85 100
87 32.9 26.6 39.8

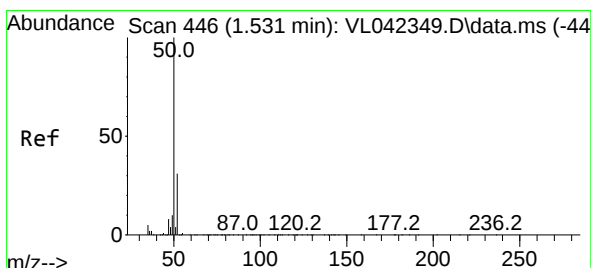
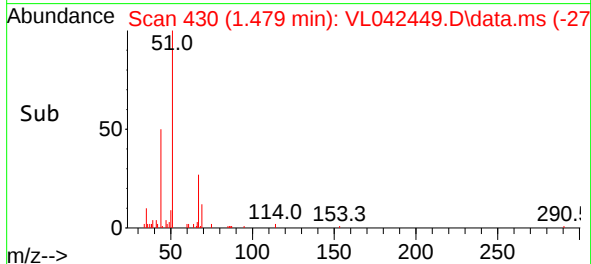
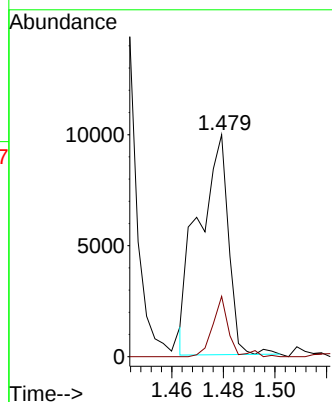
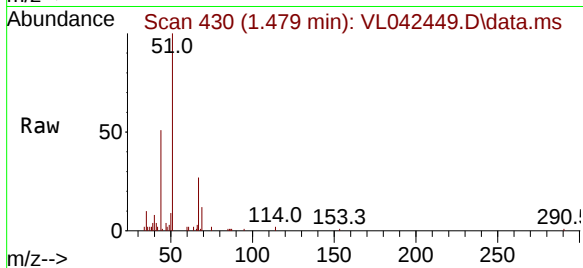




#3
Chlorodifluoromethane
Concen: 0.382 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

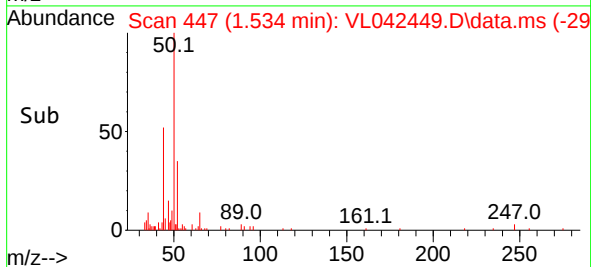
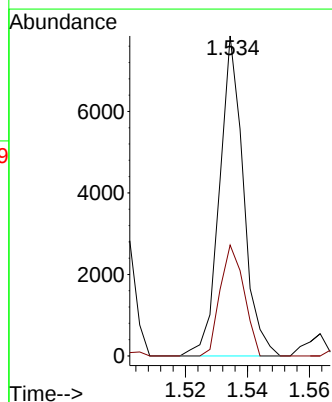
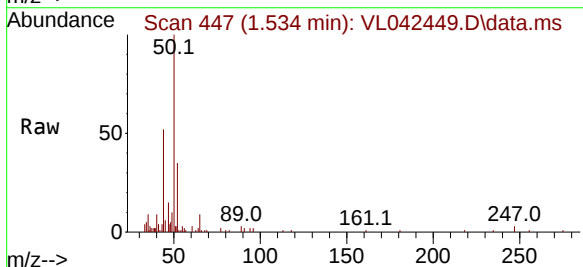
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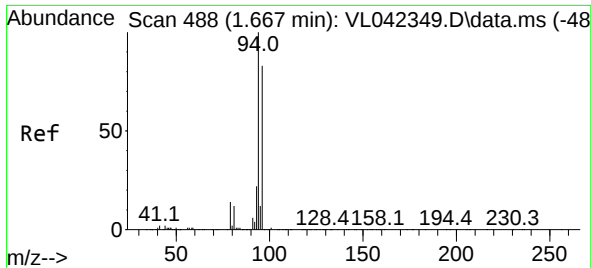
Tgt Ion: 51 Resp: 8011
Ion Ratio Lower Upper
51 100
67 15.0 16.2 24.4#



#4
Chloromethane
Concen: 0.484 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion: 50 Resp: 4212
Ion Ratio Lower Upper
50 100
52 34.6 24.7 37.1

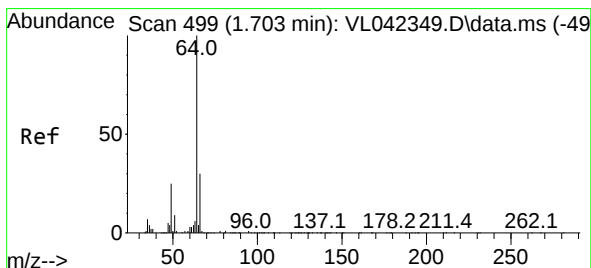
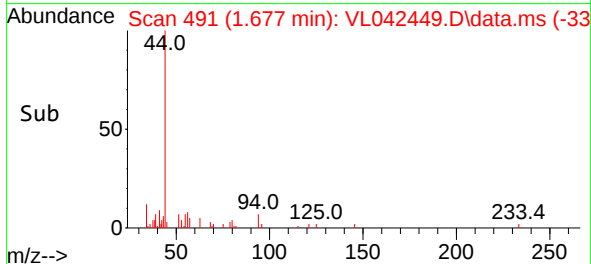
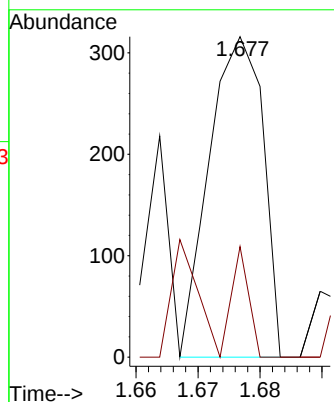
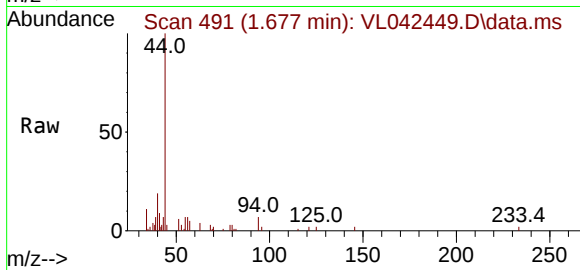




#6
Bromomethane
Concen: 0.047 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.010 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

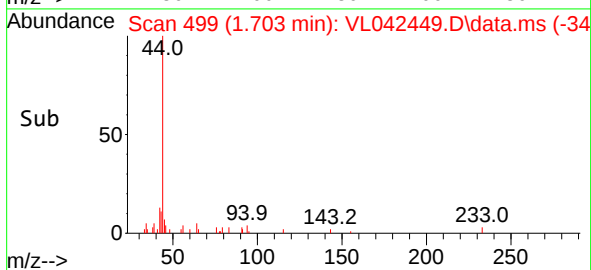
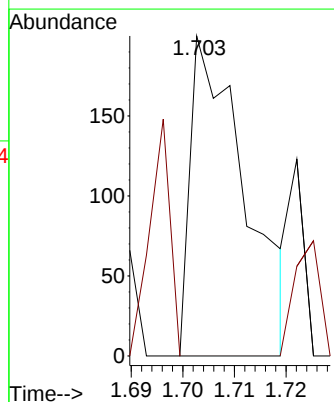
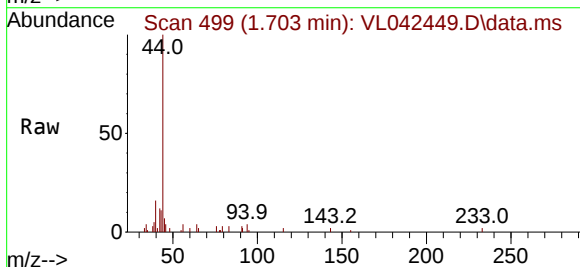
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-SS01-20250423

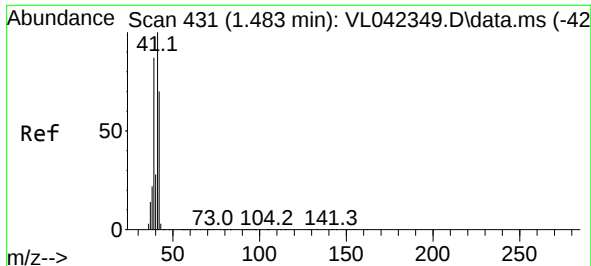
Tgt Ion: 94 Resp: 191
Ion Ratio Lower Upper
94 100
96 34.5 66.2 99.2#



#7
Chloroethane
Concen: 0.043 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion: 64 Resp: 146
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#





#9

Propene

Concen: 0.434 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042449.D

Acq: 29 Apr 2025 16:32

Instrument :

MSVOA_L

ClientSampleId :

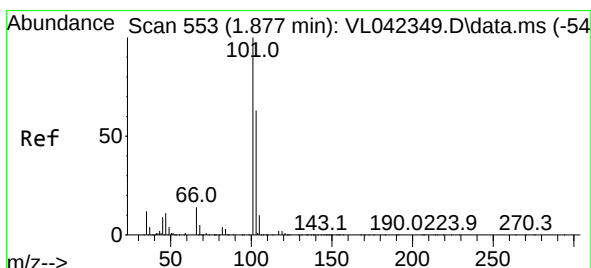
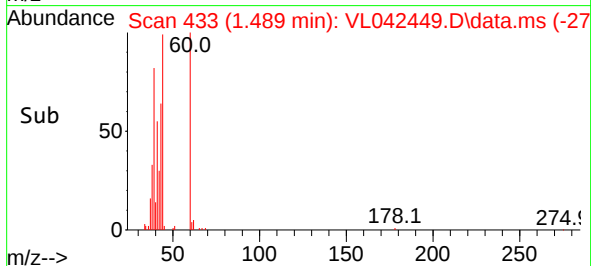
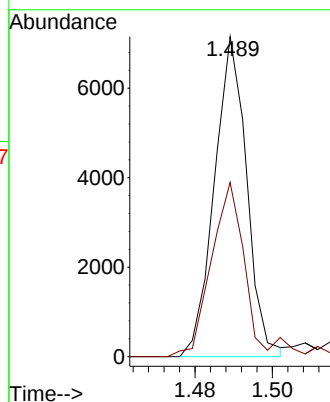
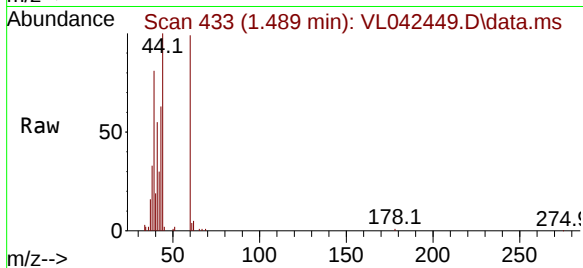
EBR-P02-SC-SS01-20250423

Tgt Ion: 41 Resp: 4143

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.317 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL042449.D

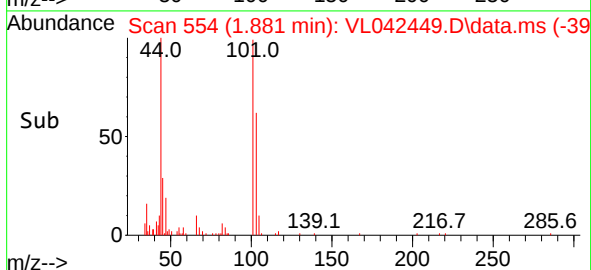
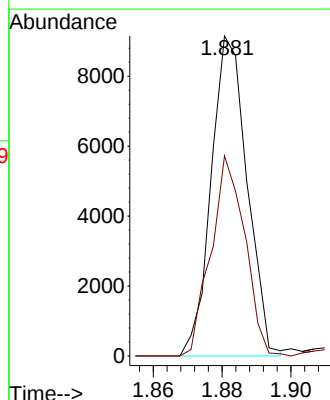
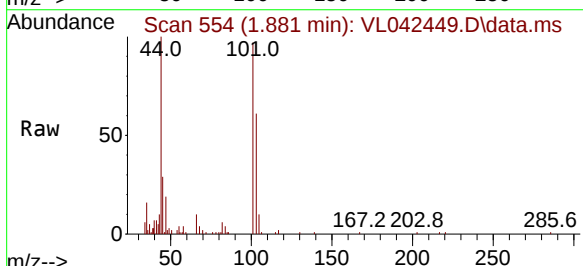
Acq: 29 Apr 2025 16:32

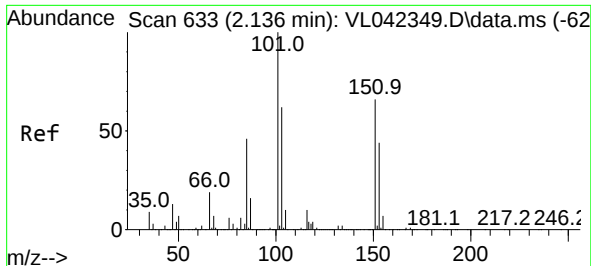
Tgt Ion: 101 Resp: 6624

Ion Ratio Lower Upper

101 100

103 62.6 50.1 75.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.062 ppbv

RT: 2.140 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042449.D

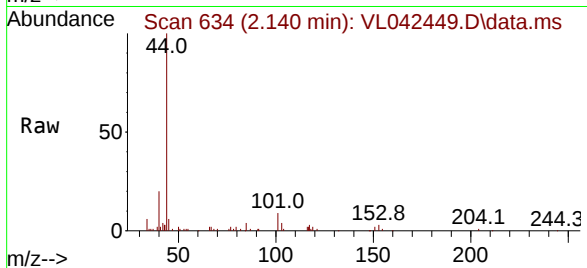
Acq: 29 Apr 2025 16:32

Instrument :

MSVOA_L

ClientSampleId :

EBR-P02-SC-SS01-20250423

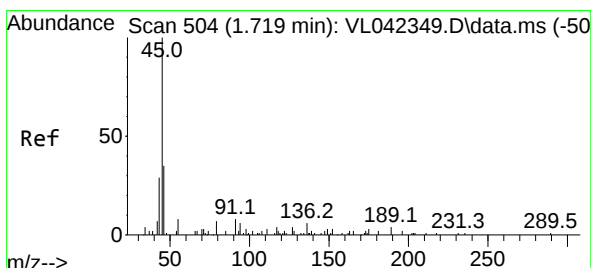
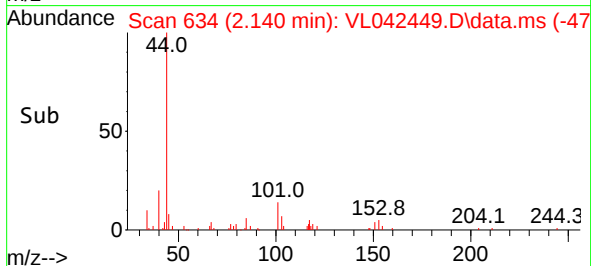
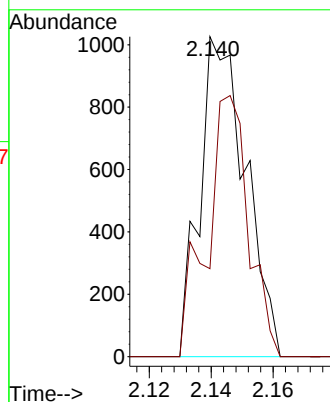


Tgt Ion:101 Resp: 1053

Ion Ratio Lower Upper

101 100

151 74.0 57.0 85.6



#13

Ethanol

Concen: 134.382 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL042449.D

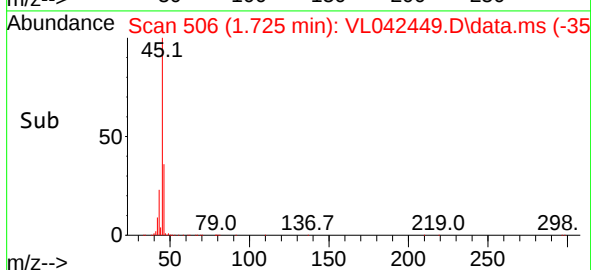
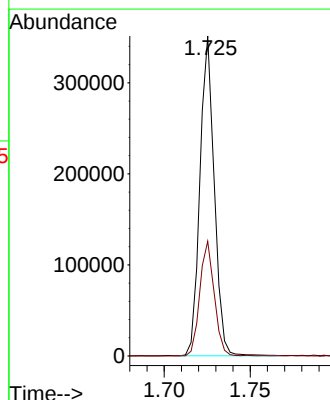
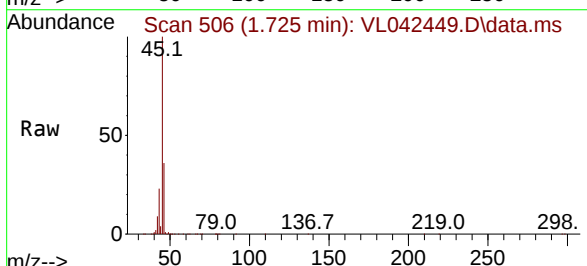
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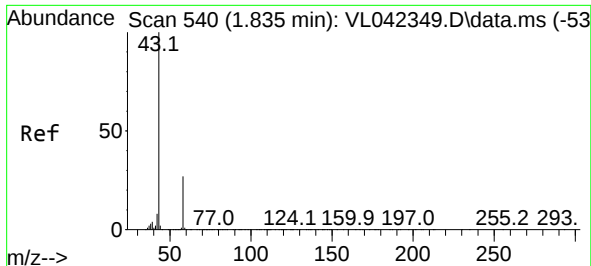
Tgt Ion: 45 Resp: 203780

Ion Ratio Lower Upper

45 100

46 36.3 21.9 87.7

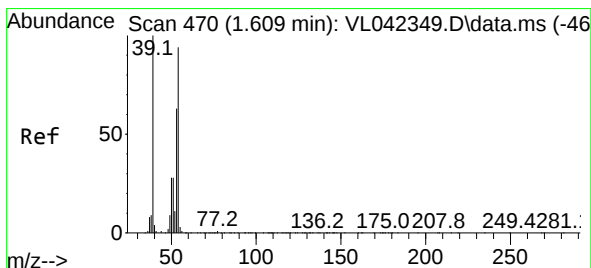
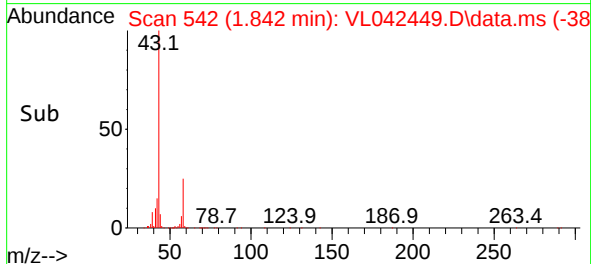
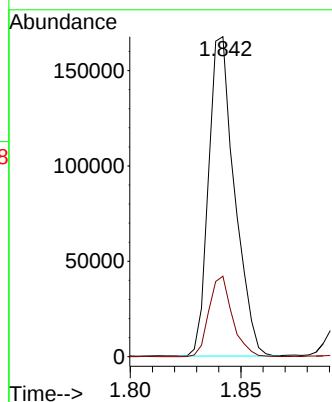
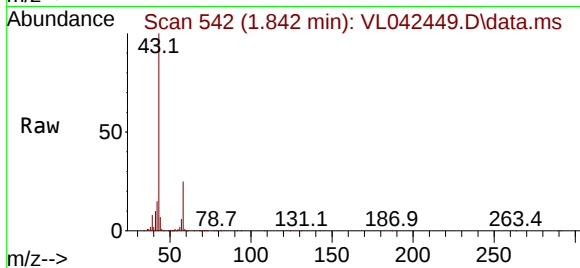




#15
Acetone
Concen: 6.737 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

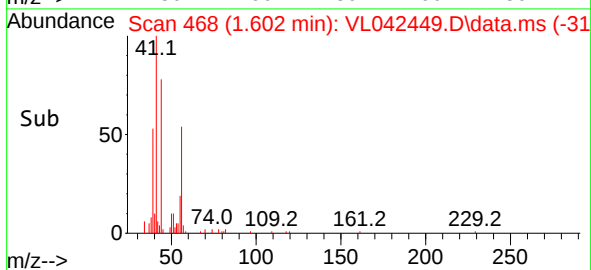
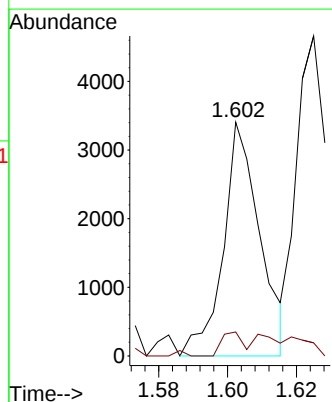
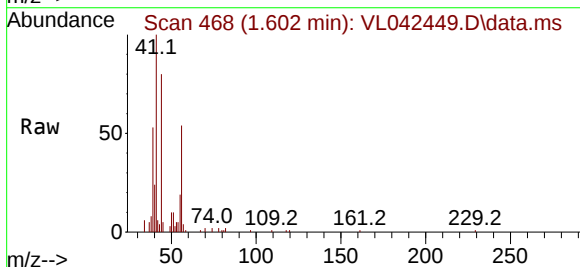
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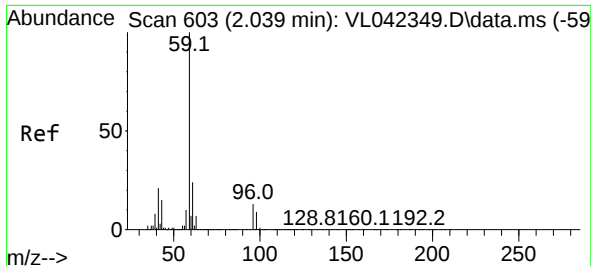
Tgt Ion: 43 Resp: 137336
Ion Ratio Lower Upper
43 100
58 22.6 22.4 33.6



#16
1,3-Butadiene
Concen: 0.257 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion: 39 Resp: 2502
Ion Ratio Lower Upper
39 100
54 21.7 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.321 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042449.D

Acq: 29 Apr 2025 16:32

Instrument :

MSVOA_L

ClientSampleId :

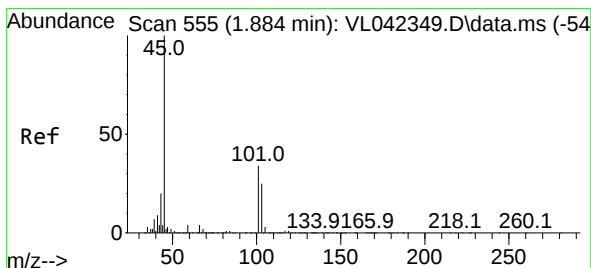
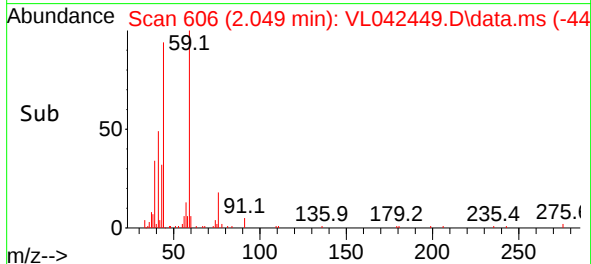
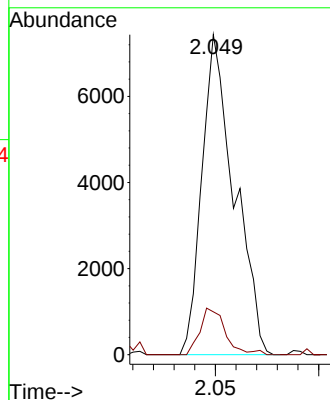
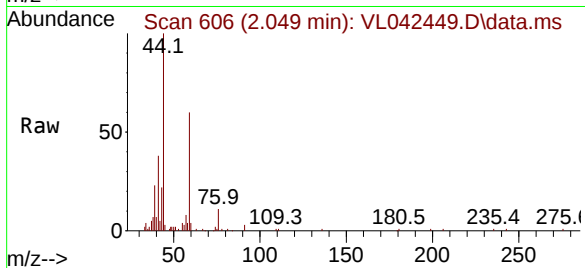
EBR-P02-SC-SS01-20250423

Tgt Ion: 59 Resp: 8121

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 2.624 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042449.D

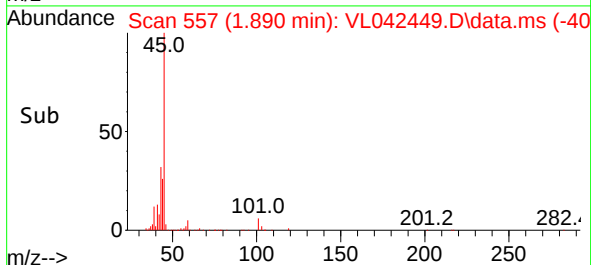
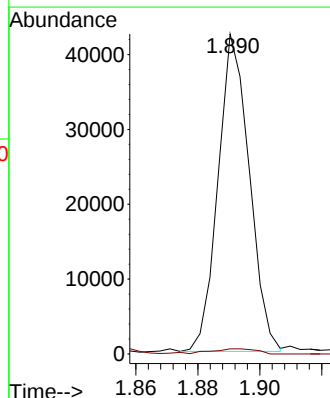
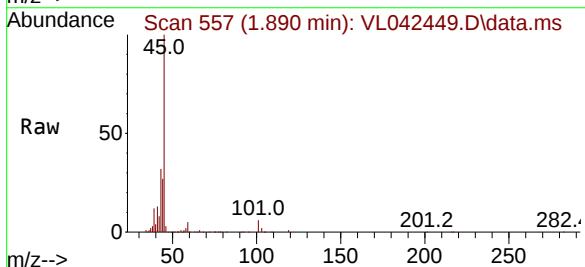
Acq: 29 Apr 2025 16:32

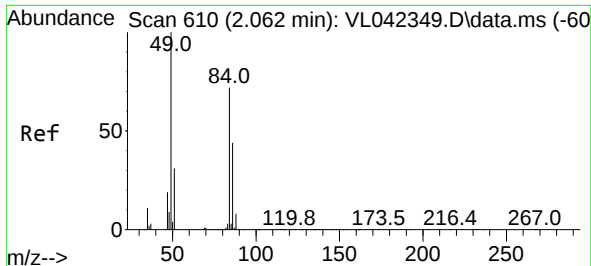
Tgt Ion: 45 Resp: 29711

Ion Ratio Lower Upper

45 100

58 104.8 34.5 51.7#

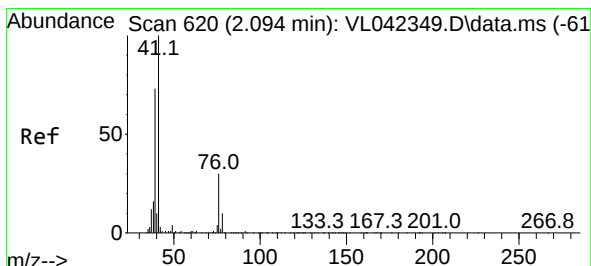
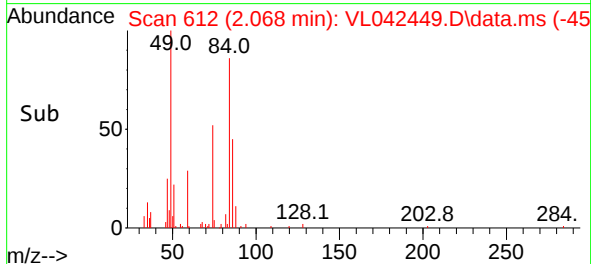
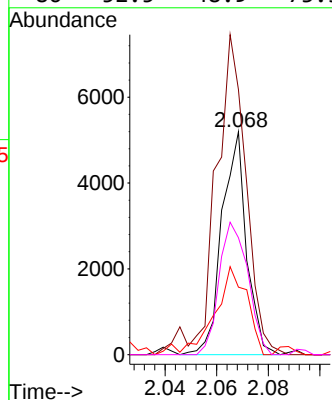
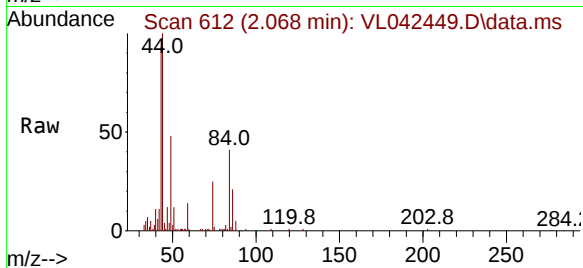




#20
Methylene Chloride
Concen: 0.429 ppbv
RT: 2.068 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

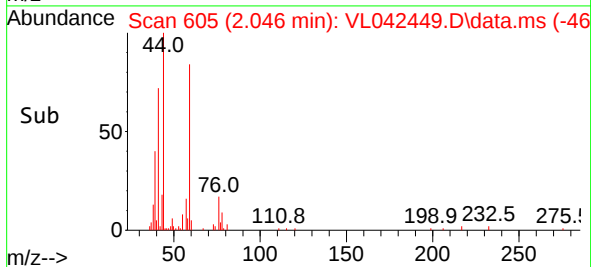
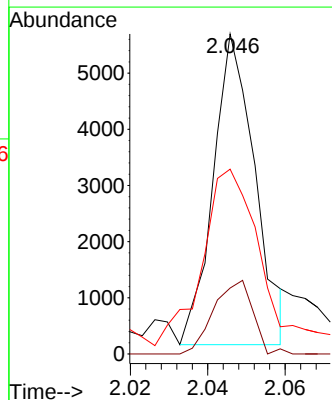
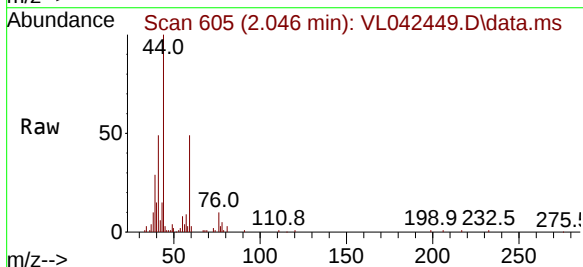
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-SS01-20250423

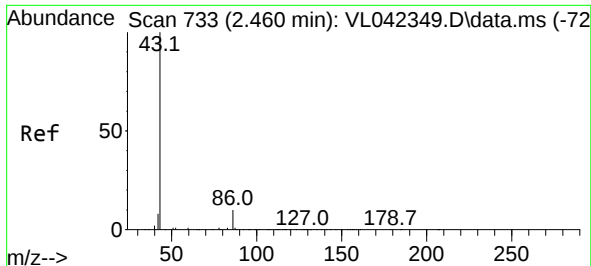
Tgt Ion:	84	Resp:	3425
Ion	Ratio	Lower	Upper
84	100		
49	117.1	111.6	167.4
51	29.2	35.1	52.7#
86	52.5	48.9	73.3



#21
Allyl Chloride
Concen: 0.295 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.049 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion:	41	Resp:	4149
Ion	Ratio	Lower	Upper
41	100		
76	22.2	24.8	37.2#
39	78.5	60.6	90.8

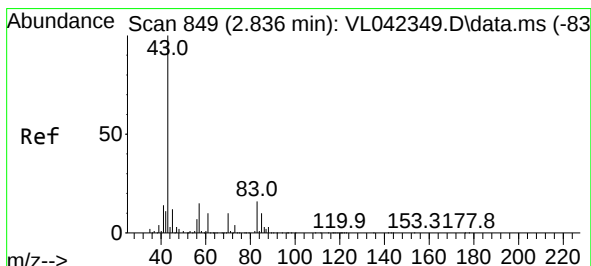
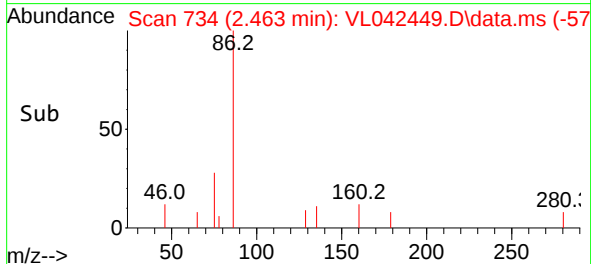
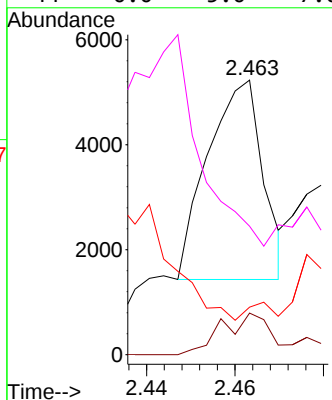
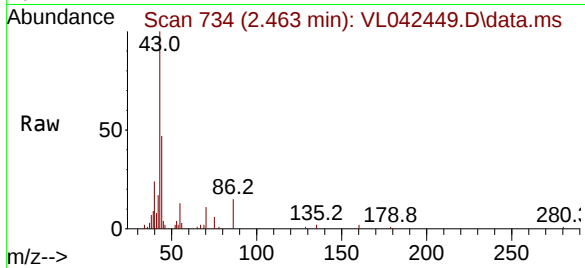




#23
Vinyl Acetate
Concen: 0.399 ppbv
RT: 2.463 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

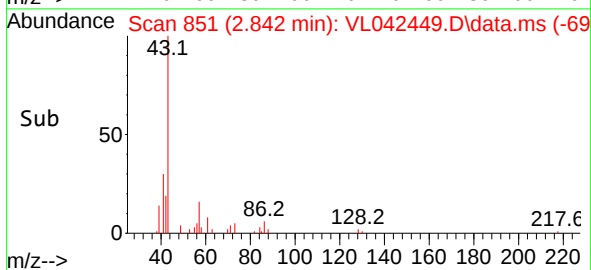
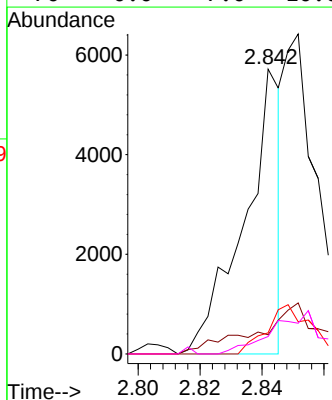
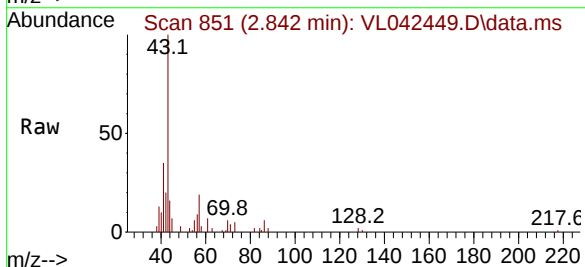
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-SS01-20250423

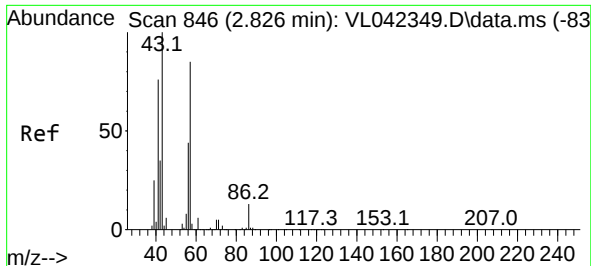
Tgt Ion:	43	Resp:	3294
Ion	Ratio	Lower	Upper
43	100		
86	20.9	6.5	9.7#
42	4.5	7.8	11.8#
44	0.0	5.0	7.6#



#25
Ethyl Acetate
Concen: 0.093 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.006 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion:	43	Resp:	4666
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.0	7.3	10.9#
70	0.0	7.0	10.6#

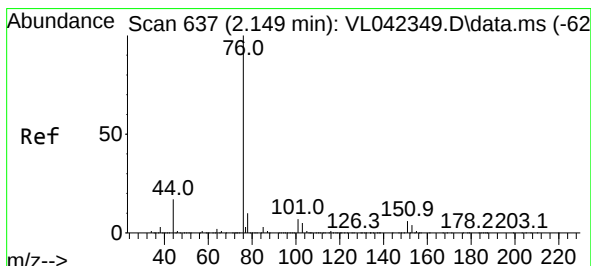
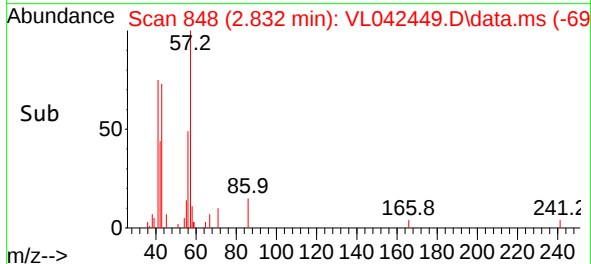
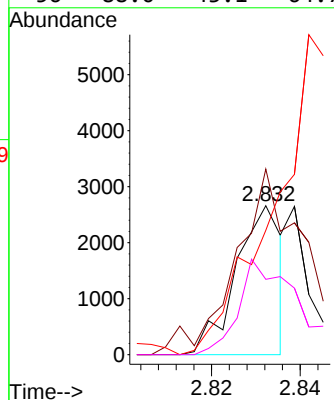
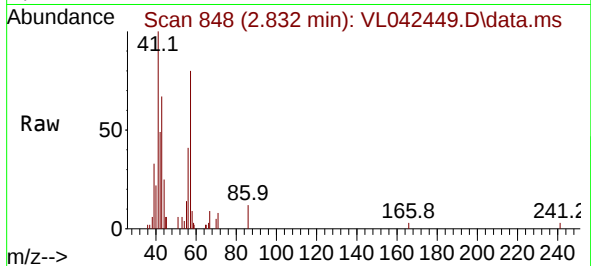




#26
Hexane
Concen: 0.094 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

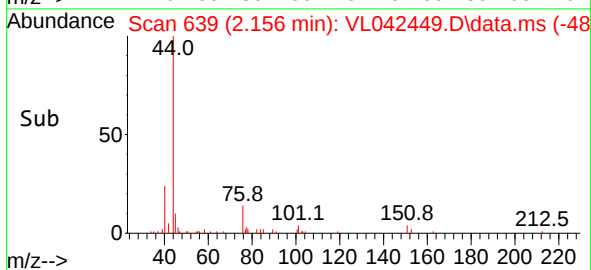
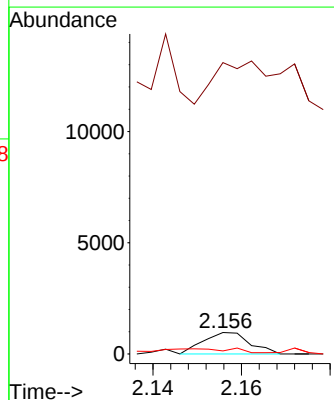
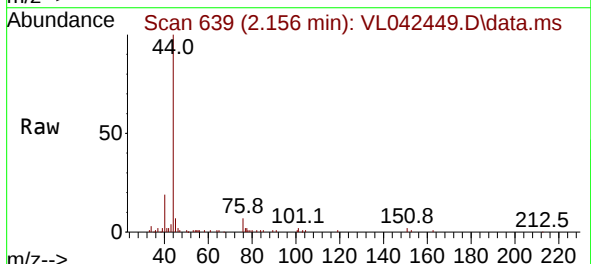
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-SS01-20250423

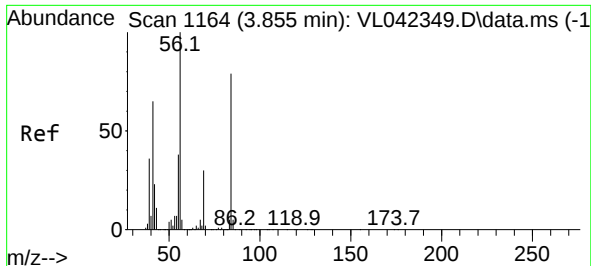
Tgt Ion: 57 Resp: 1906
Ion Ratio Lower Upper
57 100
41 182.3 77.9 116.9#
43 0.0 208.4 312.6#
56 88.0 43.1 64.7#



#27
Carbon Disulfide
Concen: 0.032 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.006 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion: 76 Resp: 707
Ion Ratio Lower Upper
76 100
44 2440.2 15.5 23.3#
78 78.4 9.3 13.9#

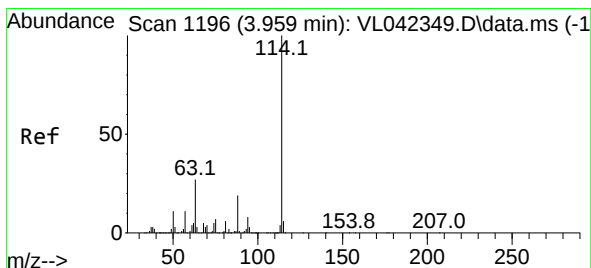
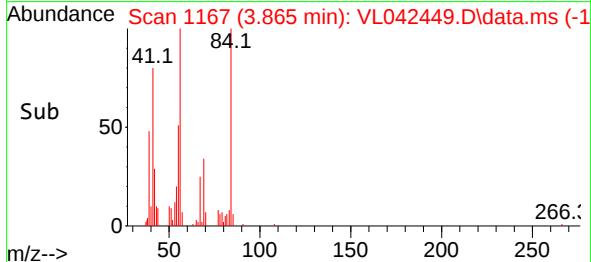
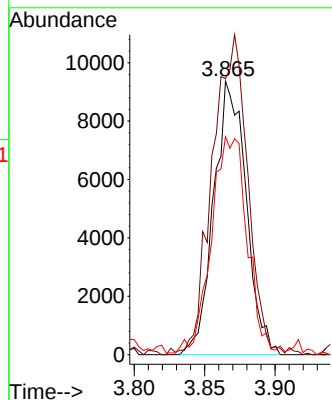
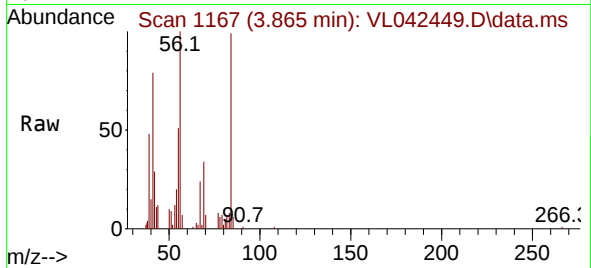




#30
Cyclohexane
Concen: 0.912 ppbv
RT: 3.865 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

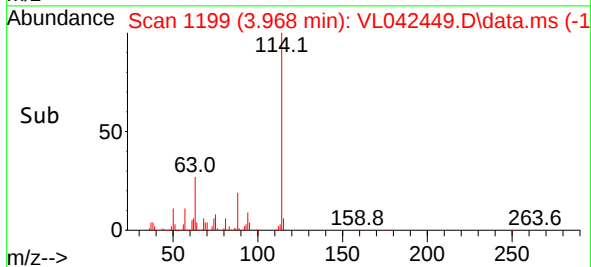
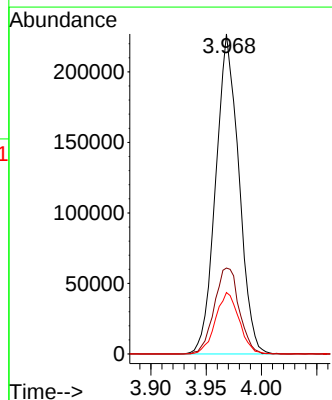
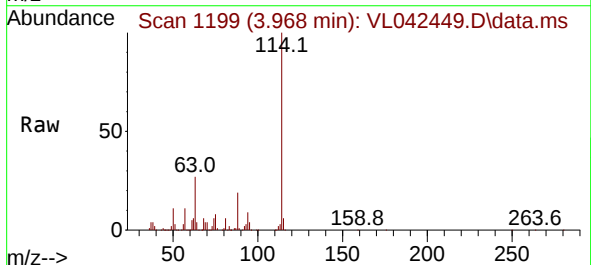
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-SS01-20250423

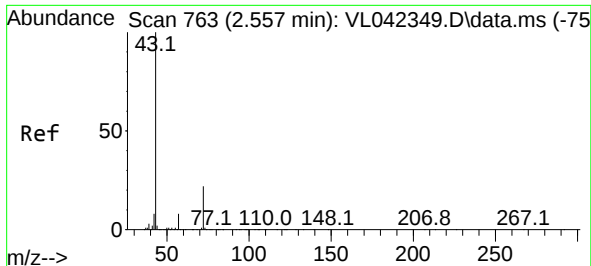
Tgt Ion: 84 Resp: 15002
Ion Ratio Lower Upper
84 100
56 127.8 101.0 151.4
41 86.9 67.4 101.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.010 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion: 114 Resp: 329514
Ion Ratio Lower Upper
114 100
63 29.0 21.8 32.6
88 19.7 15.5 23.3

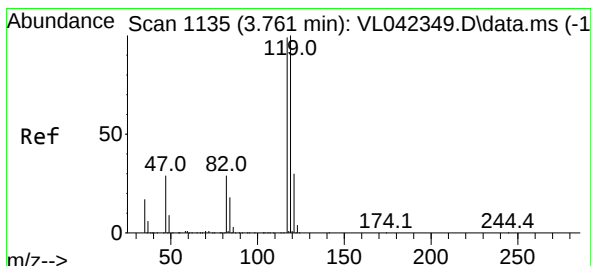
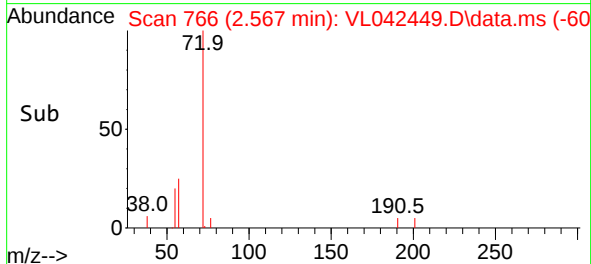
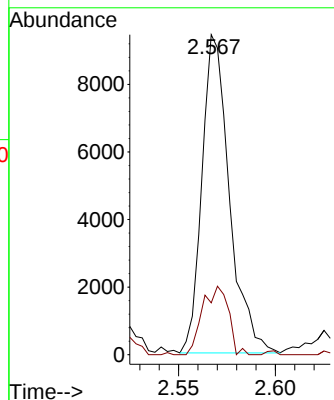
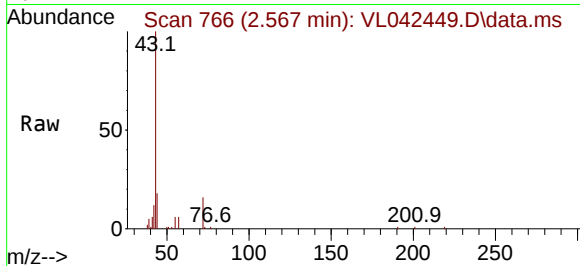




#34
2-Butanone
Concen: 0.358 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

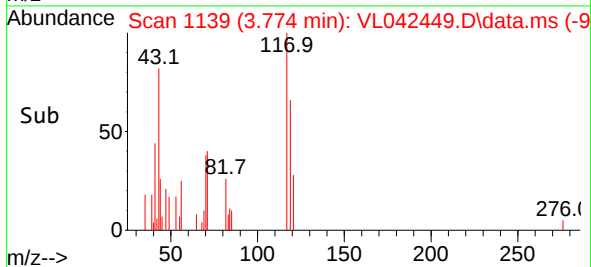
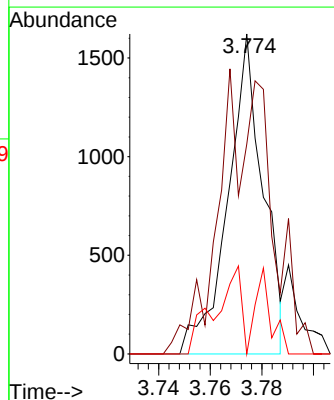
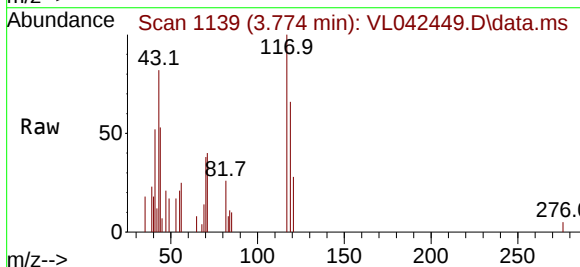
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-SS01-20250423

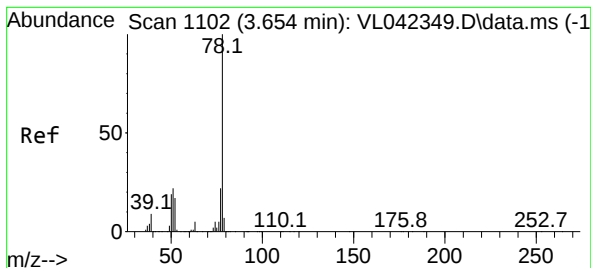
Tgt Ion: 43 Resp: 9322
Ion Ratio Lower Upper
43 100
72 20.6 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 3.774 min Scan# 1139
Delta R.T. 0.013 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

Tgt Ion: 117 Resp: 1526
Ion Ratio Lower Upper
117 100
119 56.5 80.5 120.7#
121 0.0 24.2 36.2#





#36

Benzene

Concen: 0.094 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042449.D

Acq: 29 Apr 2025 16:32

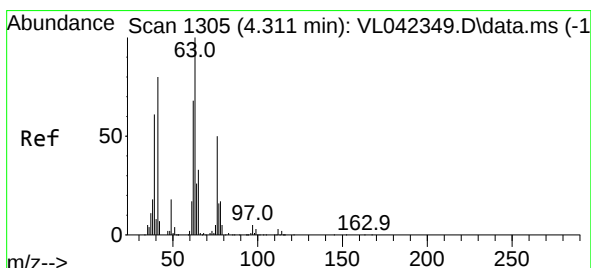
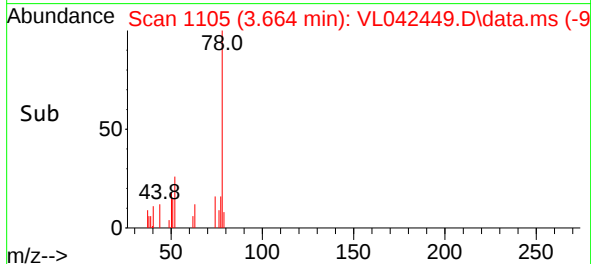
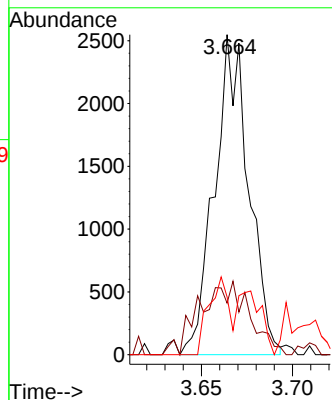
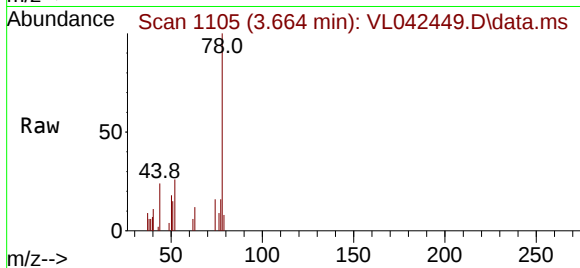
Instrument :

MSVOA_L

ClientSampleId :

EBR-P02-SC-SS01-20250423

Tgt Ion: 78	Resp: 3324
Ion Ratio	Lower Upper
78 100	
77 16.1	17.4 26.0#
50 18.1	15.5 23.3



#39

1,2-Dichloropropane

Concen: 7.191 ppbv

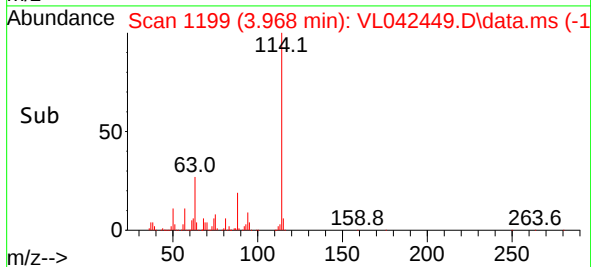
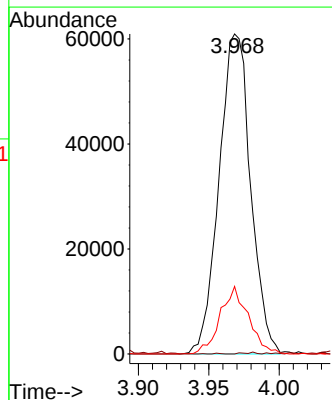
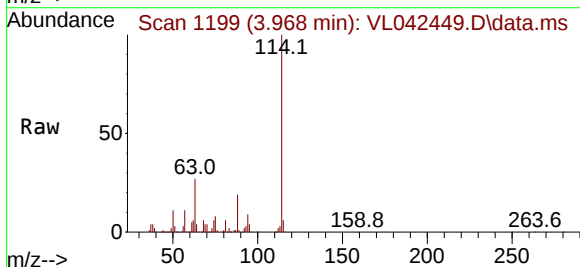
RT: 3.968 min Scan# 1199

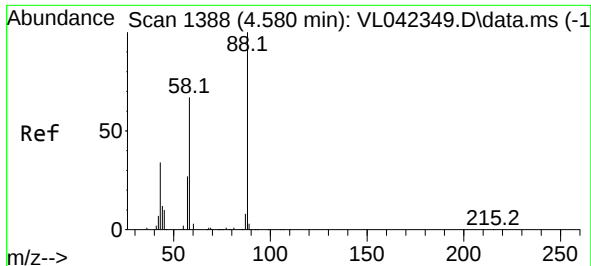
Delta R.T. -0.343 min

Lab File: VL042449.D

Acq: 29 Apr 2025 16:32

Tgt Ion: 63	Resp: 95240
Ion Ratio	Lower Upper
63 100	
41 0.0	64.2 96.2#
62 21.1	54.3 81.5#

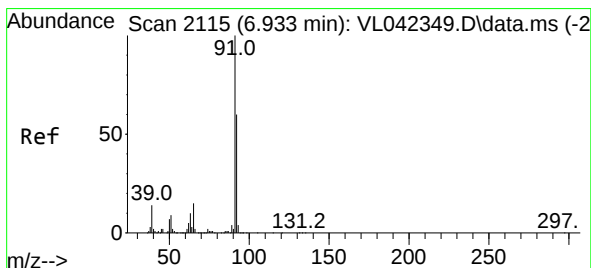
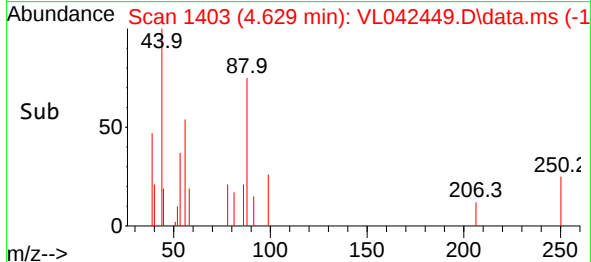
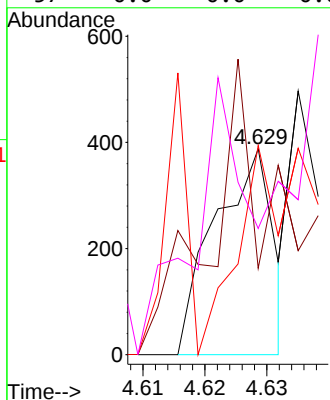
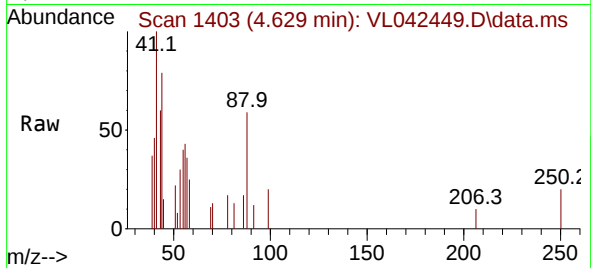




#40
 1,4-Dioxane
 Concen: 0.035 ppbv
 RT: 4.629 min Scan# 1403
 Delta R.T. 0.049 min
 Lab File: VL042449.D
 Acq: 29 Apr 2025 16:32

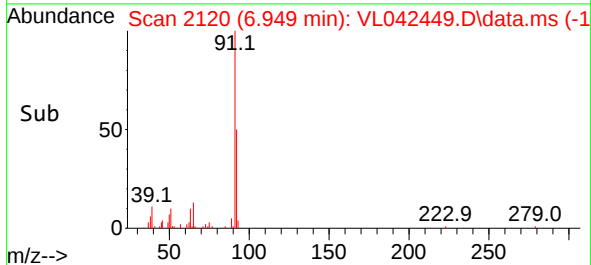
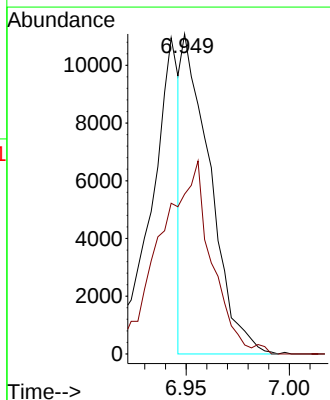
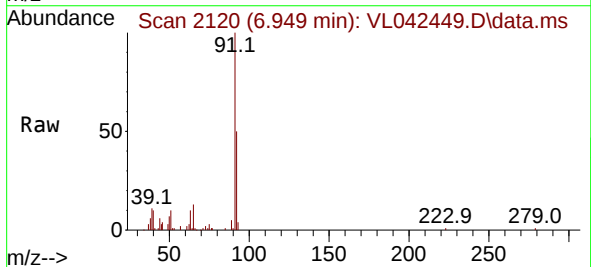
Instrument : MSVOA_L
 ClientSampleId : EBR-P02-SC-SS01-20250423

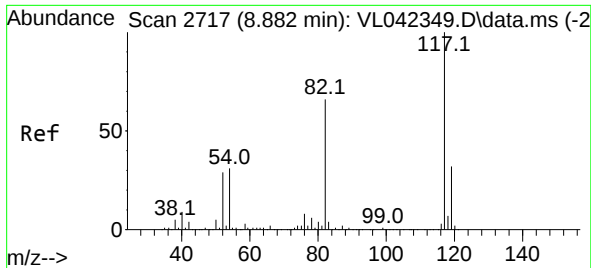
Tgt Ion:	88	Resp:	255
Ion	Ratio	Lower	Upper
88	100		
58	245.9	61.4	92.0#
43	169.4	23.2	34.8#
57	0.0	0.0	0.0



#53
 Toluene
 Concen: 0.246 ppbv
 RT: 6.949 min Scan# 2120
 Delta R.T. 0.016 min
 Lab File: VL042449.D
 Acq: 29 Apr 2025 16:32

Tgt Ion:	91	Resp:	10506
Ion	Ratio	Lower	Upper
91	100		
92	111.8	48.2	72.4#

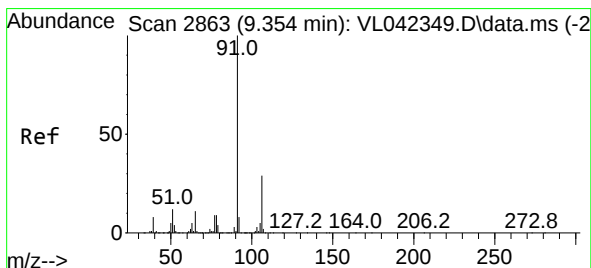
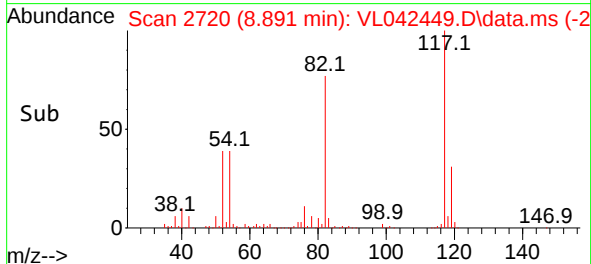
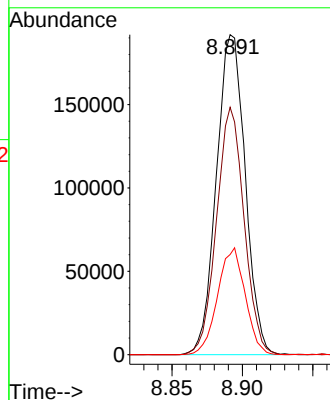
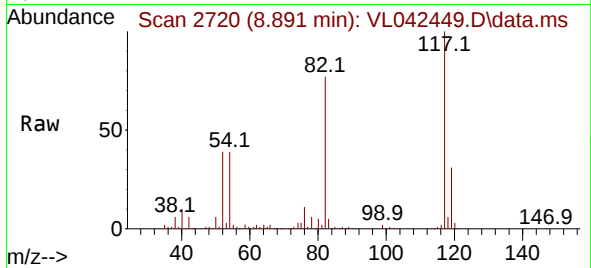




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

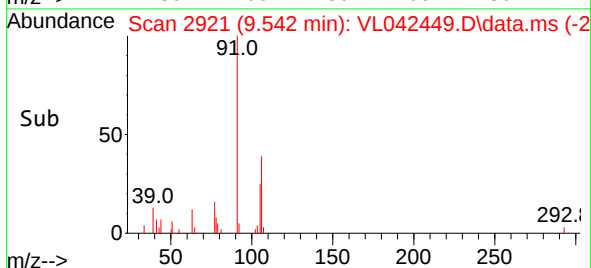
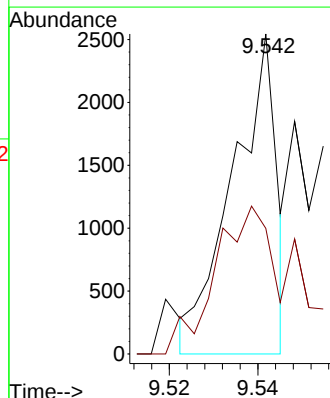
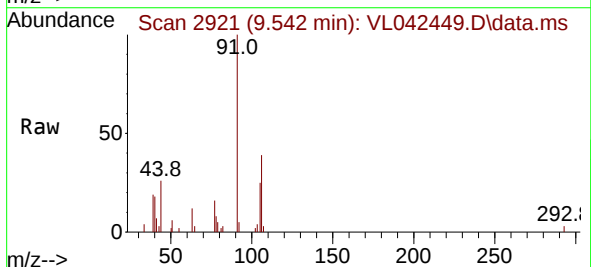
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-SS01-20250423

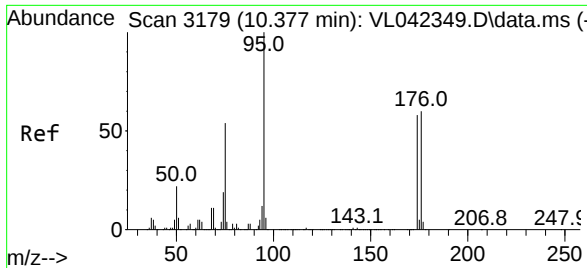
Tgt Ion:117	Resp:	273576	
Ion	Ratio	Lower	Upper
117	100		
82	74.0	57.8	86.6
119	32.0	25.2	37.8



#58
Ethyl Benzene
Concen: 0.032 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.188 min
Lab File: VL042449.D
Acq: 29 Apr 2025 16:32

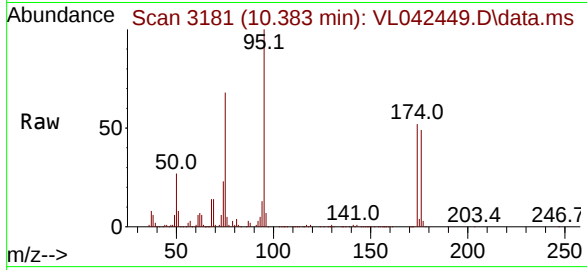
Tgt Ion: 91	Resp:	1751	
Ion Ratio	Lower	Upper	
91 100			
106 31.0	23.0	34.4	





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.990 ppbv
 RT: 10.383 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL042449.D
 Acq: 29 Apr 2025 16:32

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SC-SS01-20250423



Tgt Ion:	95	Resp:	247059
Ion Ratio	Lower	Upper	
95	100		
174	51.4	48.5	72.7
175	3.9	3.7	5.5

