

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042426.D
 Acq On : 28 Apr 2025 15:08
 Operator : SY/MD
 Sample : Q1880-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SL-IA02-20250423

Quant Time: Apr 29 01:38:30 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	2.781	49	135538	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	375715	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	317341	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	274941	10.543	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.400%

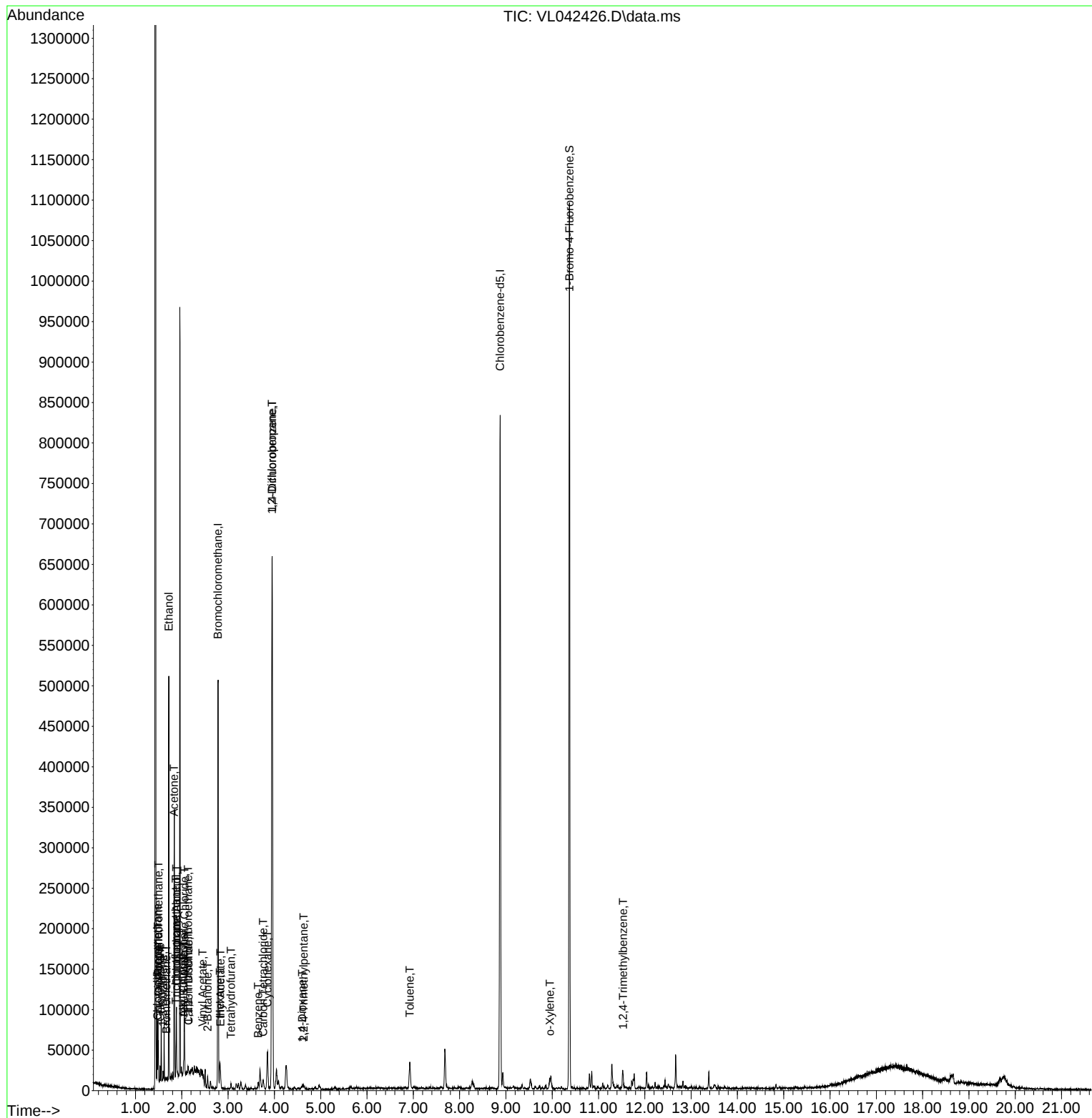
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11406	0.476	ppbv	98
3) Chlorodifluoromethane	1.473	51	9770	0.428	ppbv #	88
4) Chloromethane	1.531	50	5297	0.559	ppbv	94
6) Bromomethane	1.670	94	288	0.065	ppbv #	78
7) Chloroethane	1.887	64	112	0.030	ppbv #	45
9) Propene	1.486	41	5107	0.492	ppbv #	15
11) Trichlorofluoromethane	1.874	101	7696	0.338	ppbv	86
12) 1,1,2-Trichlorotrifluoro...	2.136	101	1100	0.059	ppbv #	72
13) Ethanol	1.719	45	164901	99.903	ppbv	74
15) Acetone	1.832	43	135399	6.102	ppbv #	88
16) 1,3-Butadiene	1.596	39	1660	0.156	ppbv #	9
17) tert-Butyl alcohol	2.039	59	2071	0.075	ppbv #	71
19) Isopropyl Alcohol	1.884	45	31595	2.563	ppbv #	23
20) Methylene Chloride	2.059	84	7130	0.821	ppbv	89
21) Allyl Chloride	2.036	41	3546	0.231	ppbv	96
23) Vinyl Acetate	2.447	43	6340	0.706	ppbv #	62
25) Ethyl Acetate	2.836	43	15358	0.281	ppbv #	95
26) Hexane	2.823	57	7034	0.318	ppbv #	4
27) Carbon Disulfide	2.146	76	1123	0.047	ppbv #	1
30) Cyclohexane	3.852	84	11034	0.617	ppbv #	89
34) 2-Butanone	2.557	43	8551	0.288	ppbv	96
35) Carbon Tetrachloride	3.758	117	2037	0.060	ppbv #	48
36) Benzene	3.648	78	3890	0.096	ppbv #	92
39) 1,2-Dichloropropane	3.949	63	104432	6.915	ppbv #	23
40) 1,4-Dioxane	4.600	88	286	0.034	ppbv #	1
41) Tetrahydrofuran	3.062	42	1116	0.064	ppbv #	79
44) 2,2,4-Trimethylpentane	4.635	57	2408	0.034	ppbv #	33
53) Toluene	6.923	91	16750	0.344	ppbv #	20
60) o-Xylene	9.953	91	1907	0.037	ppbv #	62
74) 1,2,4-Trimethylbenzene	11.532	105	3954	0.061	ppbv #	80

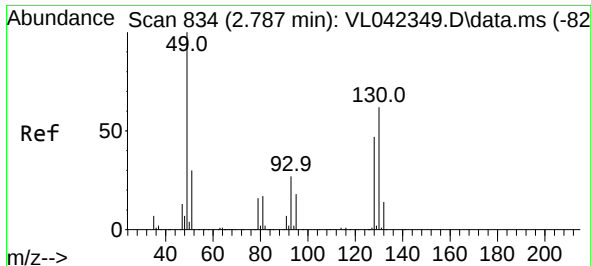
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL042426.D
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Instrument :
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EBR-P02-SL-IA02-20250423

Quant Time: Apr 29 01:38:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

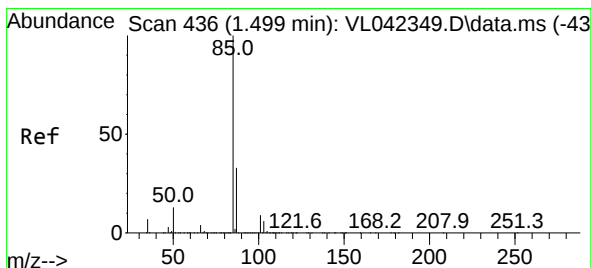
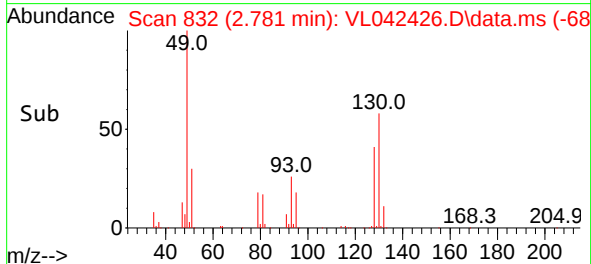
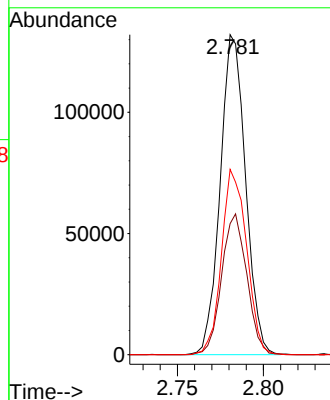
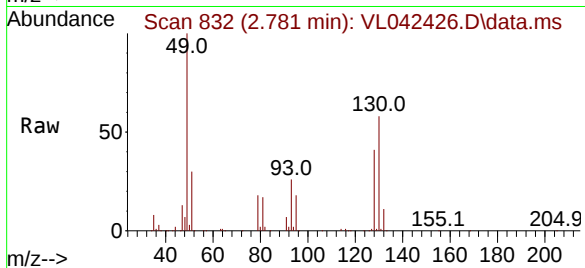




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

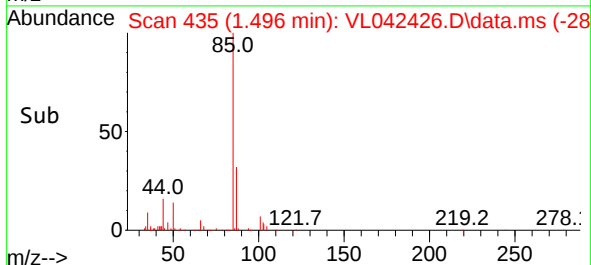
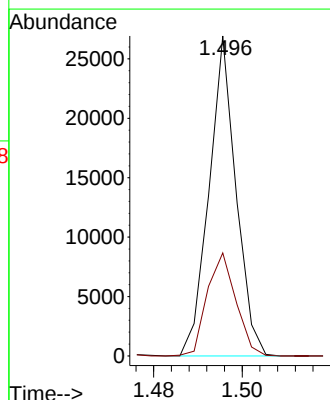
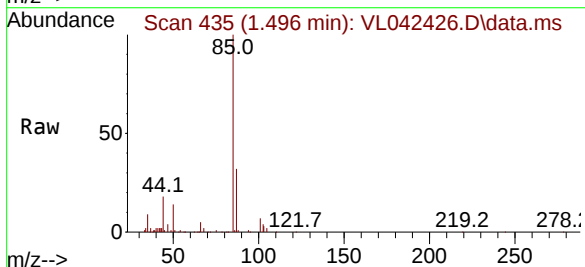
Instrument :
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ClientSampleId :
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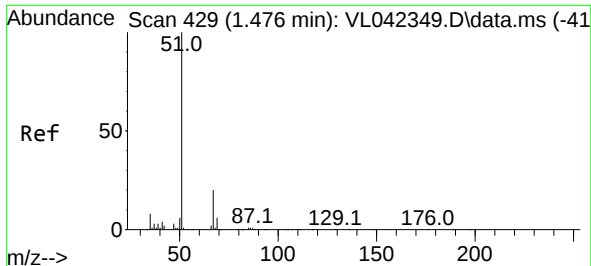
Tgt Ion: 49 Resp: 135538
Ion Ratio Lower Upper
49 100
128 43.7 22.8 68.4
130 57.2 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.476 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 85 Resp: 11406
Ion Ratio Lower Upper
85 100
87 32.2 26.6 39.8

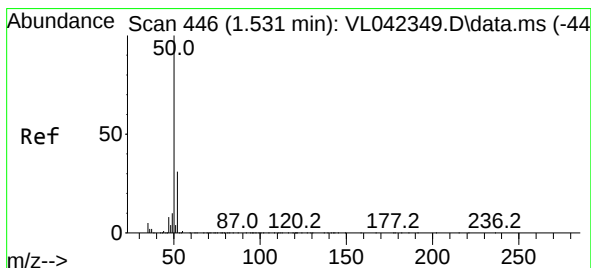
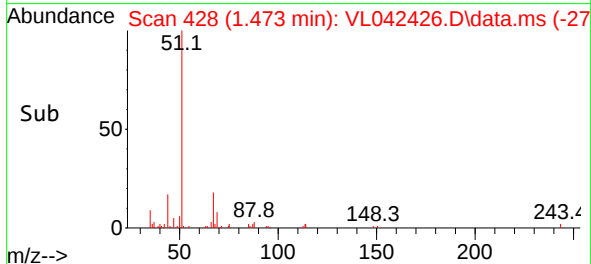
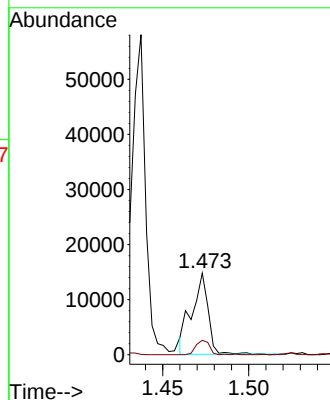
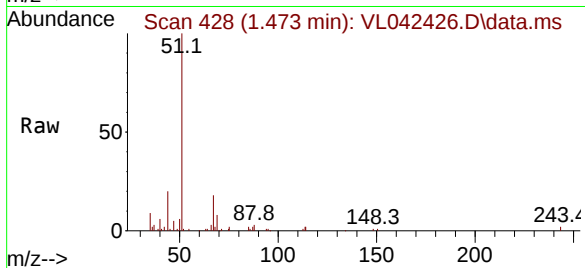




#3
Chlorodifluoromethane
Concen: 0.428 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

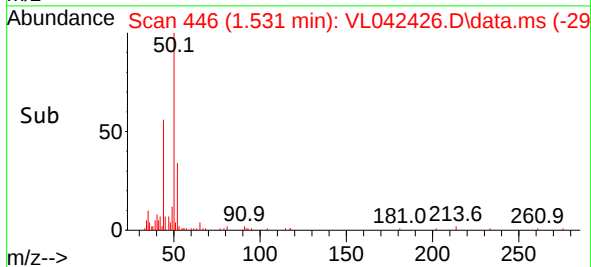
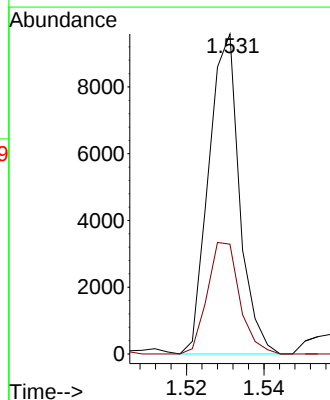
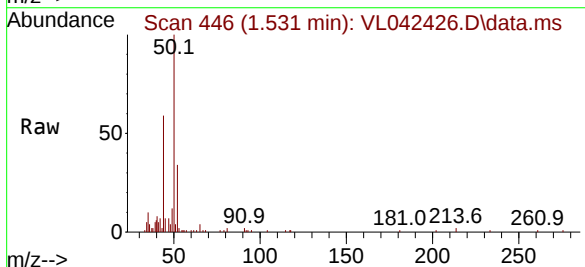
Instrument :
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ClientSampleId :
EBR-P02-SL-IA02-20250423

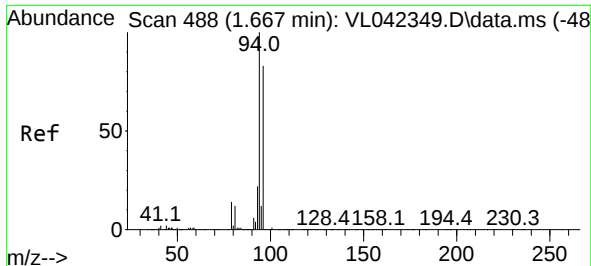
Tgt Ion: 51 Resp: 9770
Ion Ratio Lower Upper
51 100
67 14.8 16.2 24.4#



#4
Chloromethane
Concen: 0.559 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 50 Resp: 5297
Ion Ratio Lower Upper
50 100
52 34.3 24.7 37.1

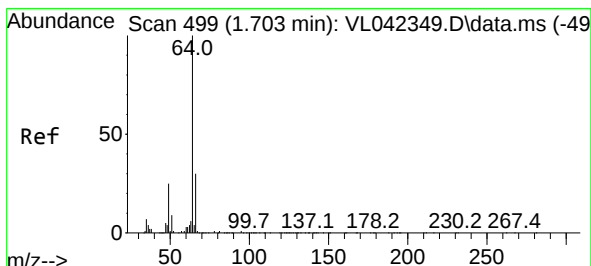
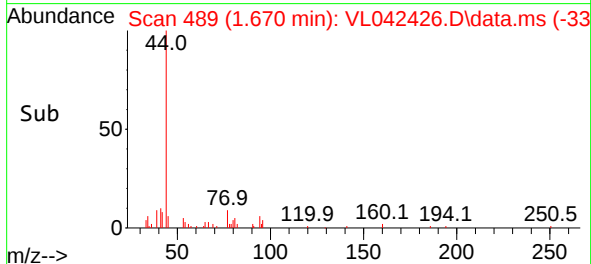
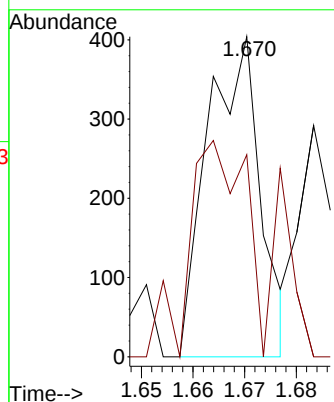
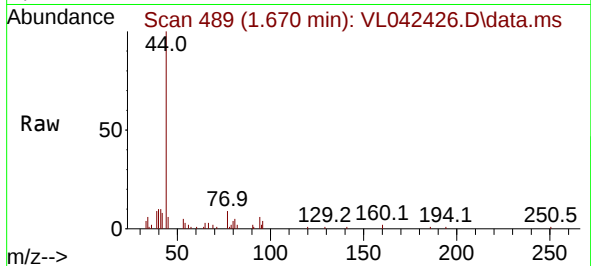




#6
Bromomethane
Concen: 0.065 ppbv
RT: 1.670 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

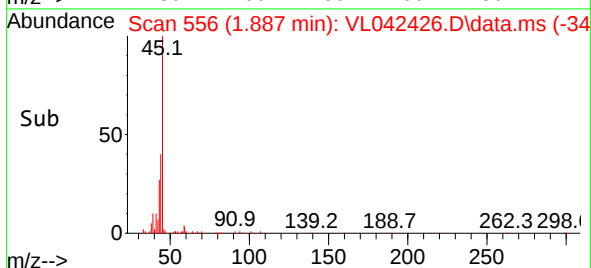
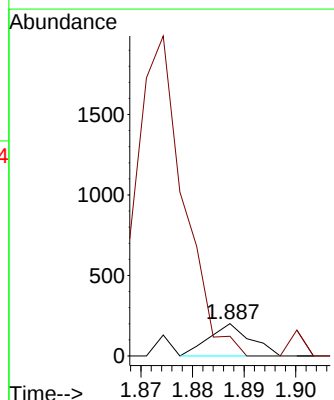
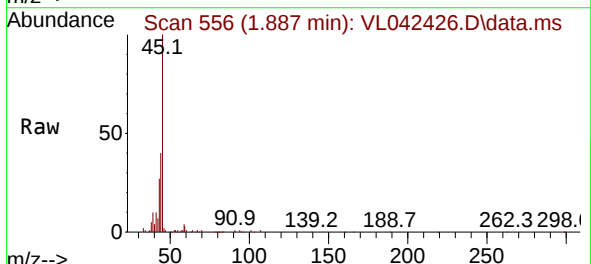
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SL-IA02-20250423

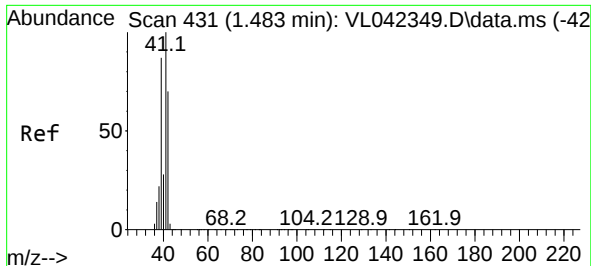
Tgt Ion: 94 Resp: 288
Ion Ratio Lower Upper
94 100
96 63.1 66.2 99.2#



#7
Chloroethane
Concen: 0.030 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.185 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 64 Resp: 112
Ion Ratio Lower Upper
64 100
66 60.7 24.6 37.0#





#9

Propene

Concen: 0.492 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042426.D

Acq: 28 Apr 2025 15:08

Instrument :

MSVOA_L

ClientSampleId :

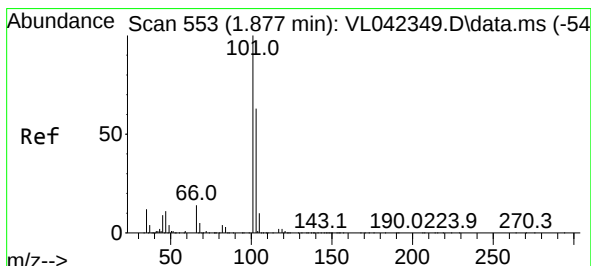
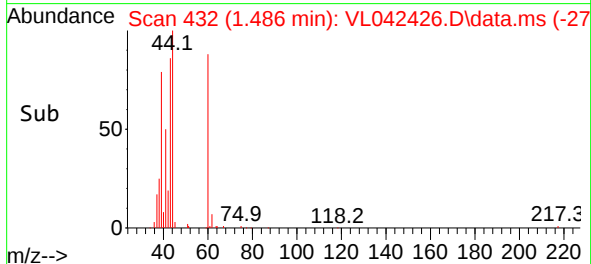
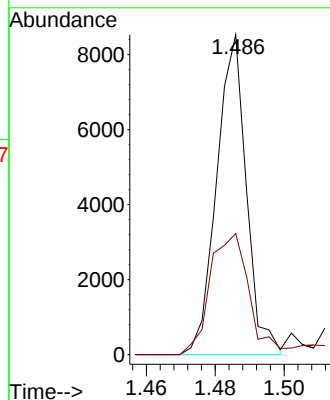
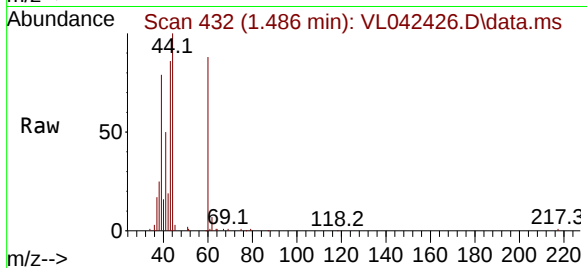
EBR-P02-SL-IA02-20250423

Tgt Ion: 41 Resp: 5107

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.338 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.003 min

Lab File: VL042426.D

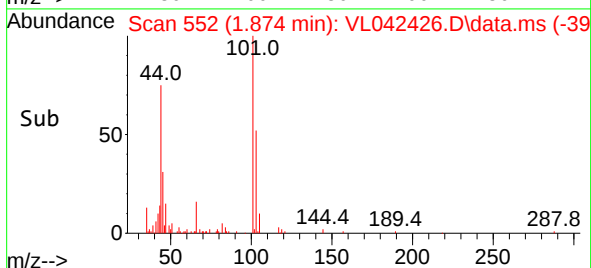
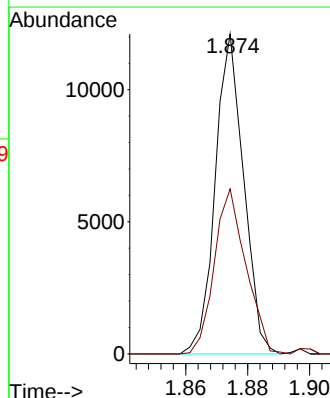
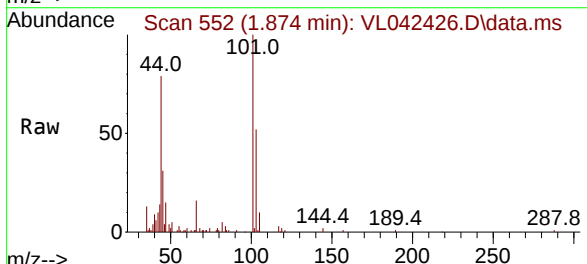
Acq: 28 Apr 2025 15:08

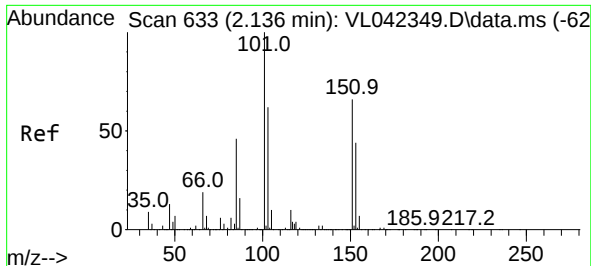
Tgt Ion: 101 Resp: 7696

Ion Ratio Lower Upper

101 100

103 51.6 50.1 75.1

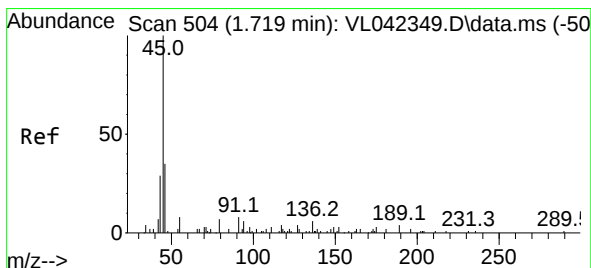
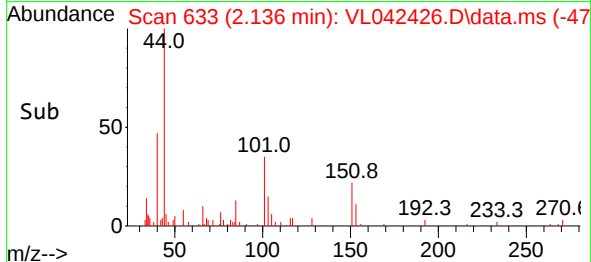
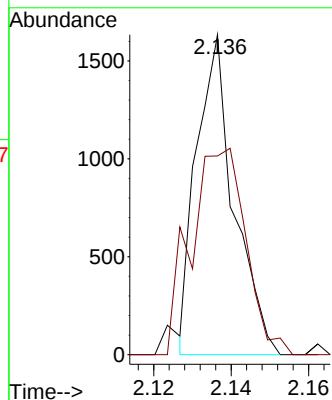
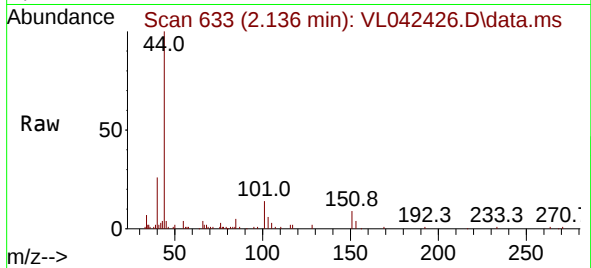




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.059 ppbv
RT: 2.136 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

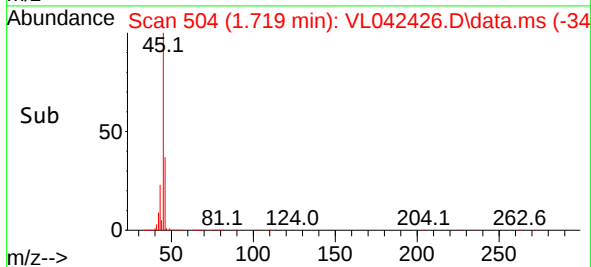
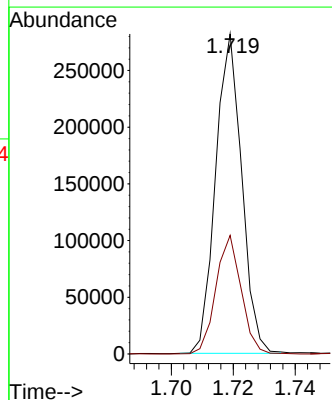
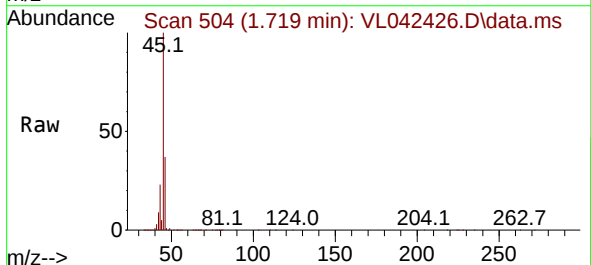
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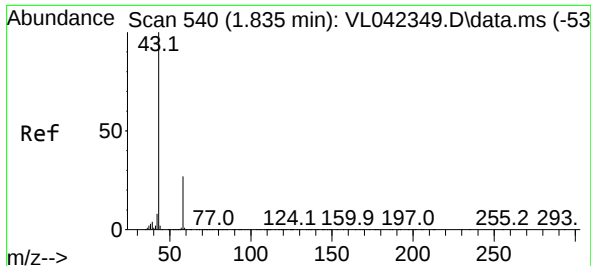
Tgt Ion:101 Resp: 1100
Ion Ratio Lower Upper
101 100
151 94.5 57.0 85.6#



#13
Ethanol
Concen: 99.903 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 45 Resp: 164901
Ion Ratio Lower Upper
45 100
46 36.2 21.9 87.7

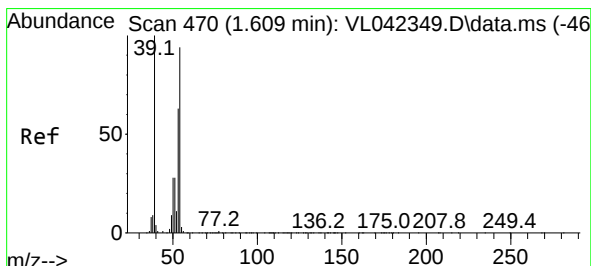
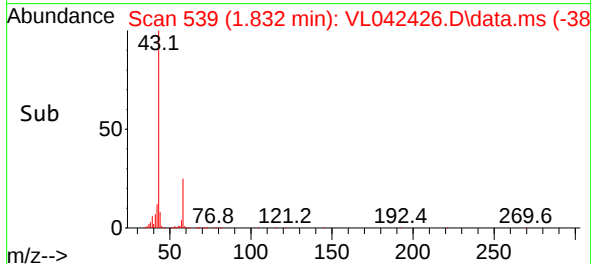
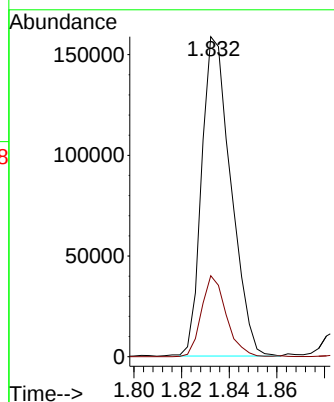
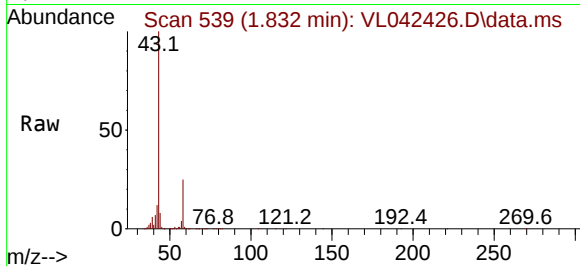




#15
Acetone
Concen: 6.102 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

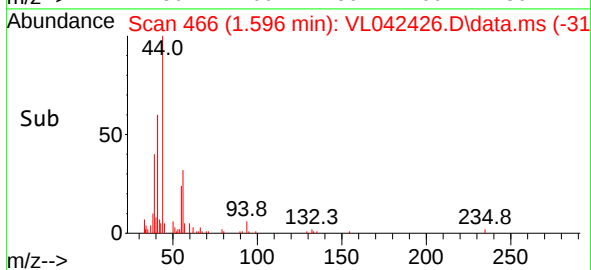
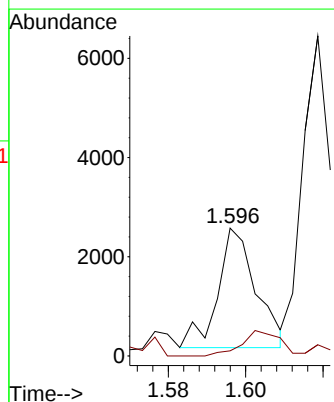
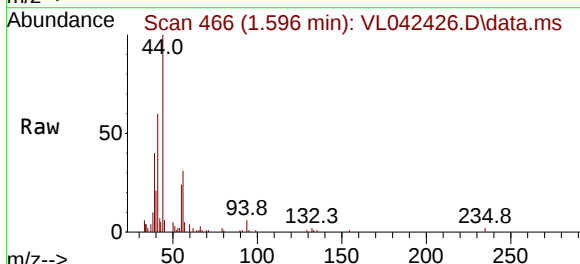
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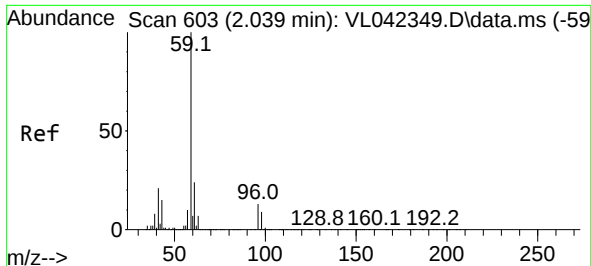
Tgt Ion: 43 Resp: 135399
Ion Ratio Lower Upper
43 100
58 21.6 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.156 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.013 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 39 Resp: 1660
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.075 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042426.D

Acq: 28 Apr 2025 15:08

Instrument :

MSVOA_1

ClientSampleId :

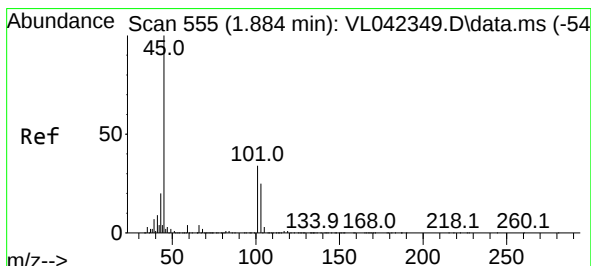
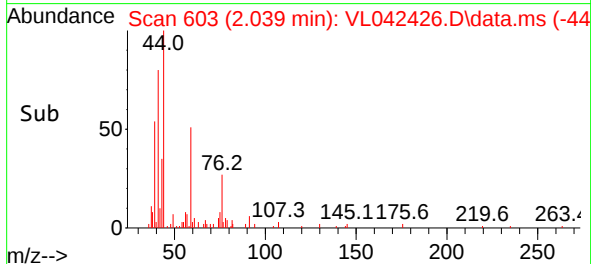
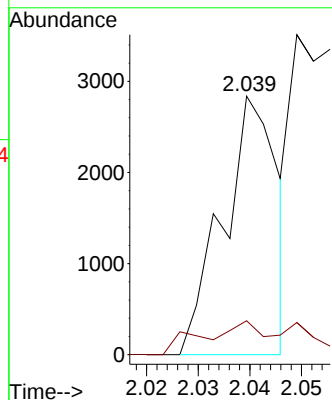
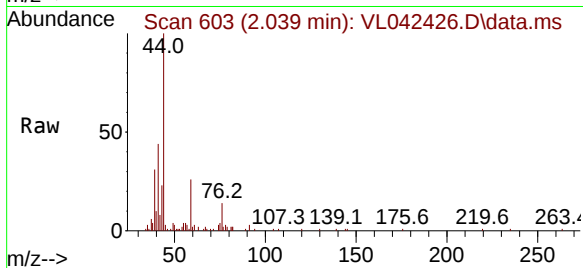
EBR-P02-SL-IA02-20250423

Tgt Ion: 59 Resp: 2071

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 2.563 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.000 min

Lab File: VL042426.D

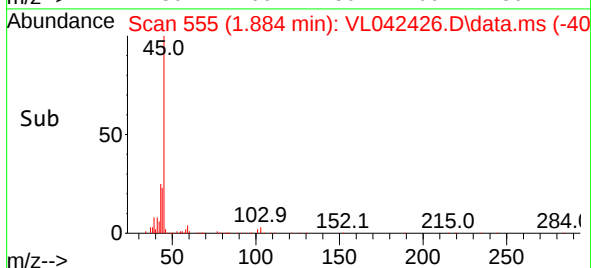
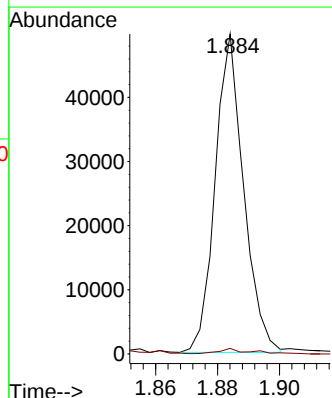
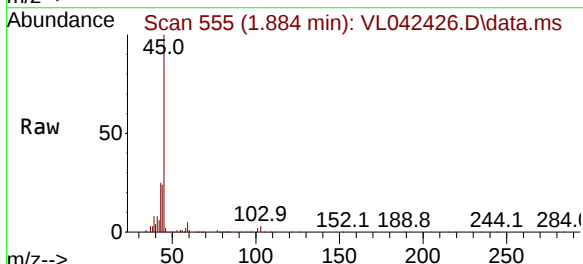
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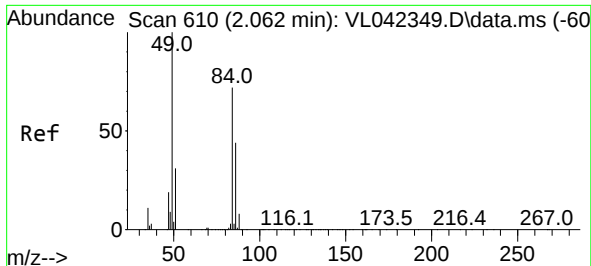
Tgt Ion: 45 Resp: 31595

Ion Ratio Lower Upper

45 100

58 92.7 34.5 51.7#

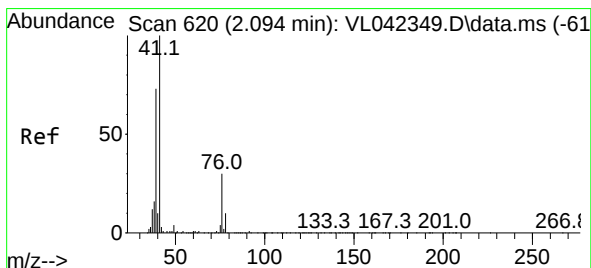
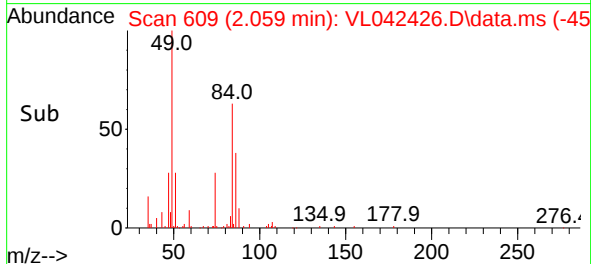
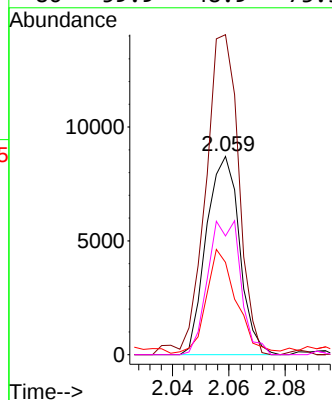
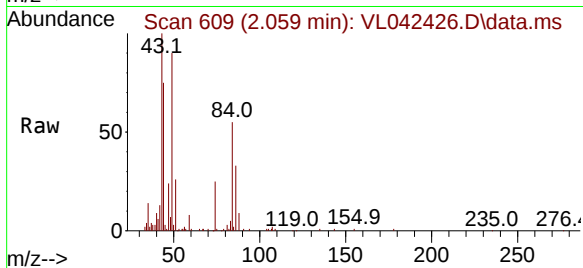




#20
Methylene Chloride
Concen: 0.821 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

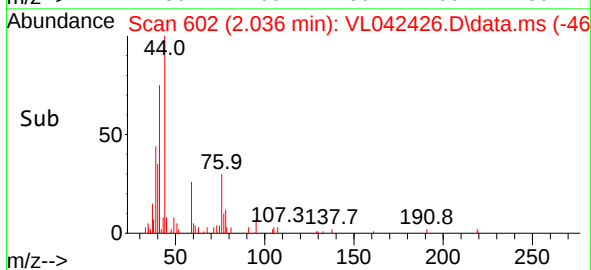
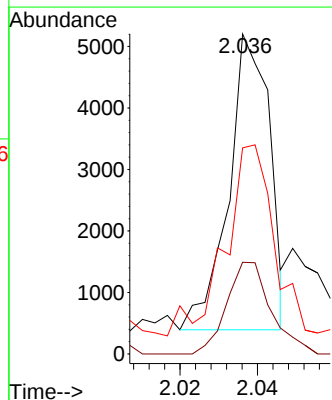
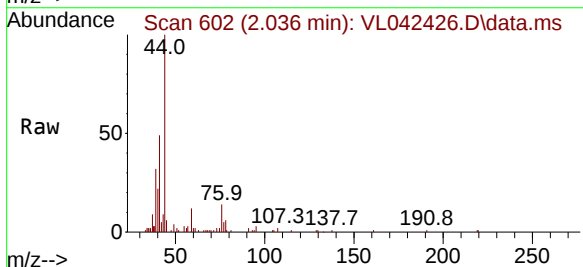
Instrument : MSVOA_L
ClientSampleId : EBR-P02-SL-IA02-20250423

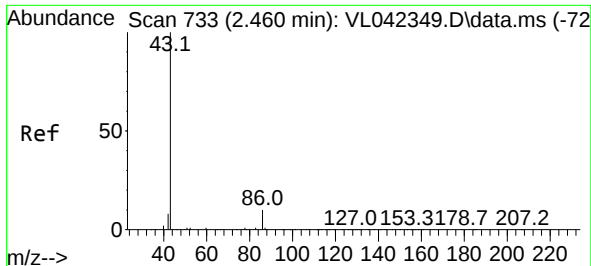
Tgt Ion:	84	Resp:	7130
Ion	Ratio	Lower	Upper
84	100		
49	161.4	111.6	167.4
51	45.1	35.1	52.7
86	59.9	48.9	73.3



#21
Allyl Chloride
Concen: 0.231 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.058 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion:	41	Resp:	3546
Ion	Ratio	Lower	Upper
41	100		
76	33.8	24.8	37.2
39	79.1	60.6	90.8

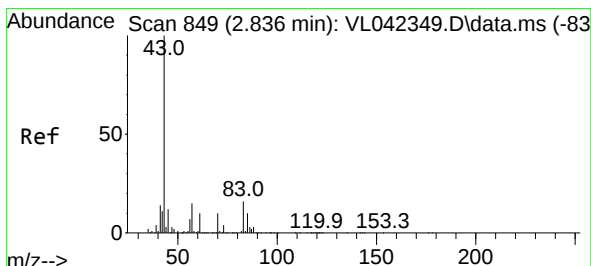
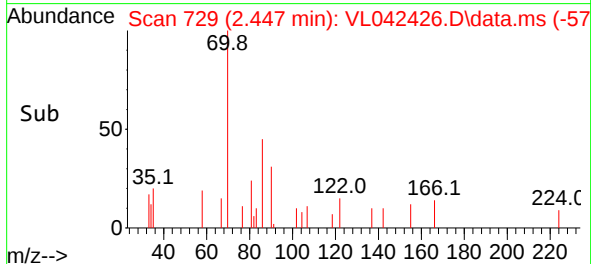
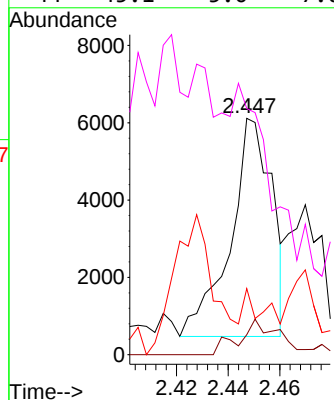
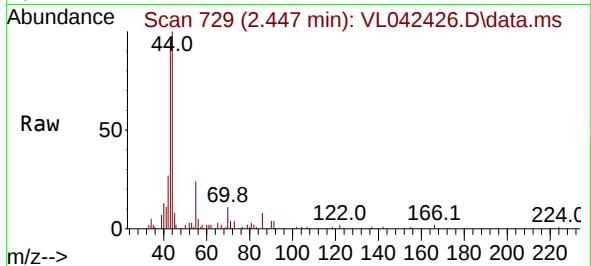




#23
Vinyl Acetate
Concen: 0.706 ppbv
RT: 2.447 min Scan# 733
Delta R.T. -0.013 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

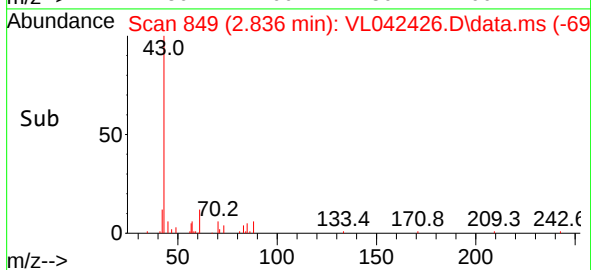
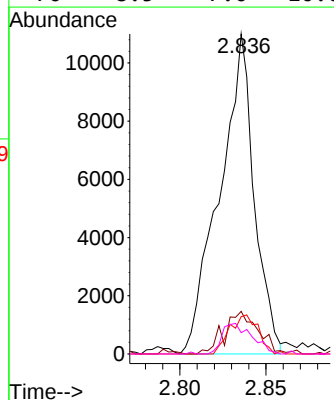
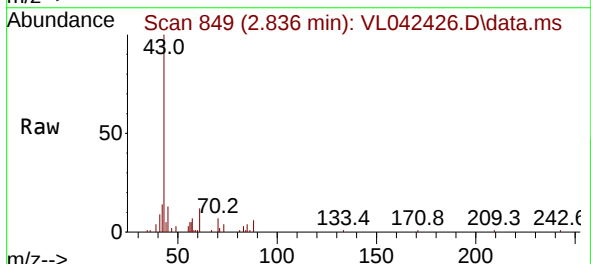
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SL-IA02-20250423

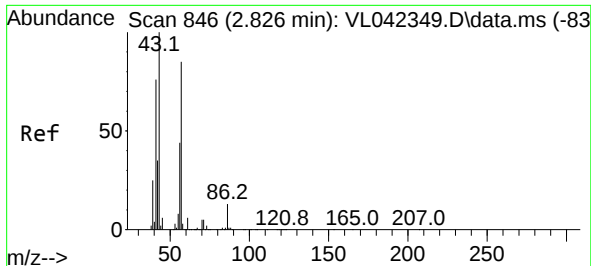
Tgt Ion: 43	Resp: 6340
Ion Ratio	Lower Upper
43 100	
86 9.2	6.5 9.7
42 16.3	7.8 11.8#
44 45.1	5.0 7.6#



#25
Ethyl Acetate
Concen: 0.281 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt	Ion: 43	Resp:	15358
Ion	Ratio	Lower	Upper
43	100		
45	13.8	8.3	12.5#
61	10.2	7.3	10.9
70	8.5	7.0	10.6

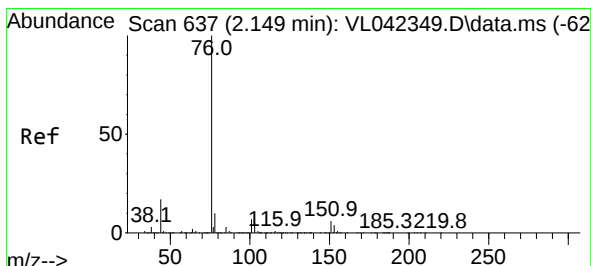
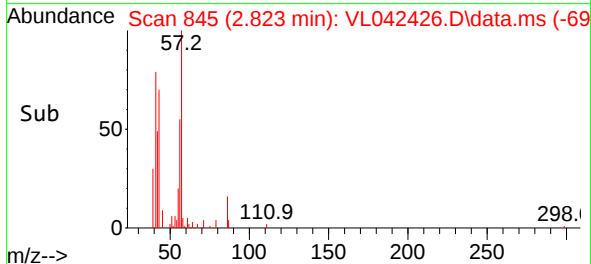
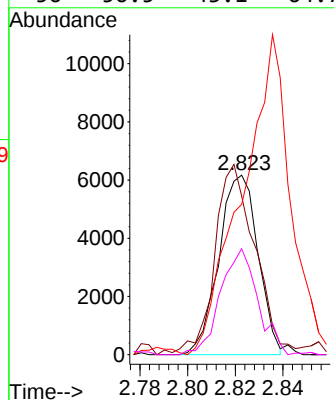
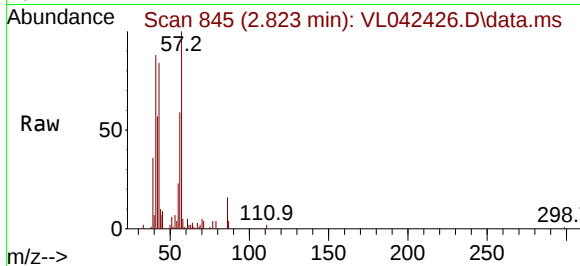




#26
Hexane
Concen: 0.318 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

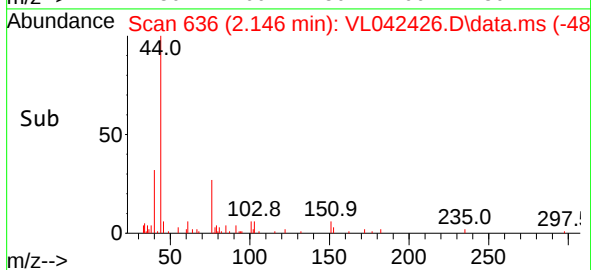
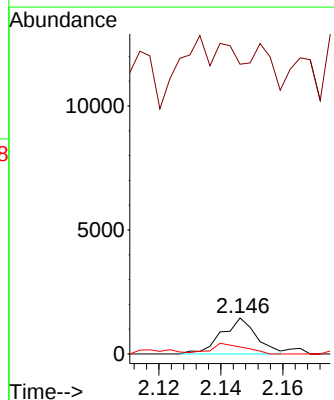
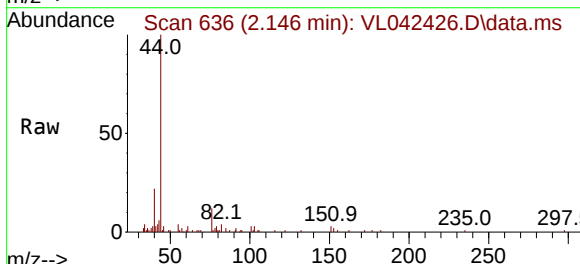
Instrument : MSVOA_L
ClientSampleId : EBR-P02-SL-IA02-20250423

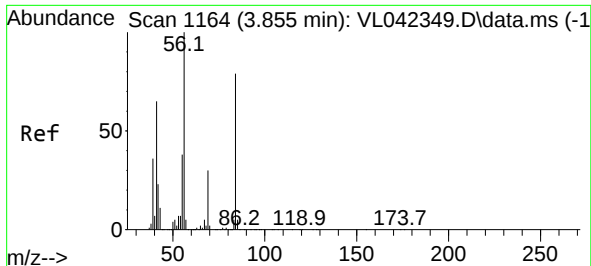
Tgt Ion: 57 Resp: 7034
Ion Ratio Lower Upper
57 100
41 112.6 77.9 116.9
43 0.0 208.4 312.6#
56 56.5 43.1 64.7



#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 76 Resp: 1123
Ion Ratio Lower Upper
76 100
44 1799.3 15.5 23.3#
78 40.9 9.3 13.9#

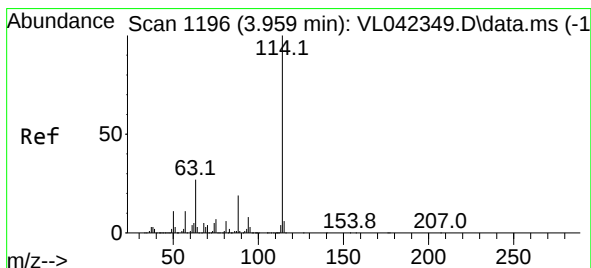
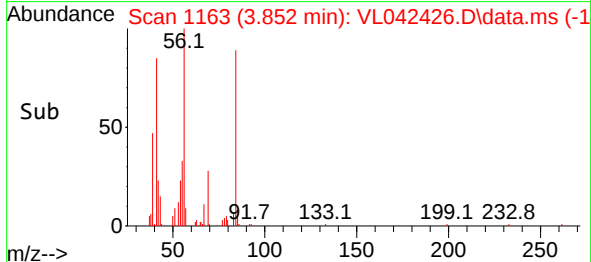
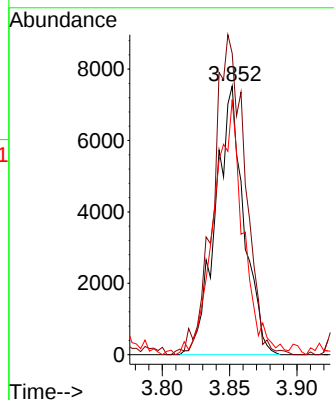
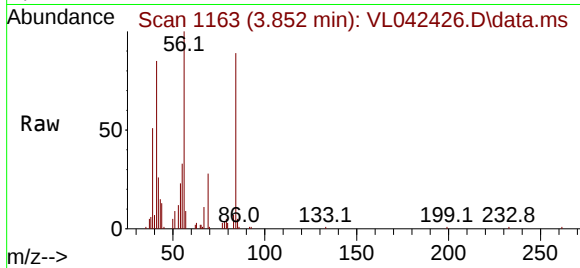




#30
Cyclohexane
Concen: 0.617 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

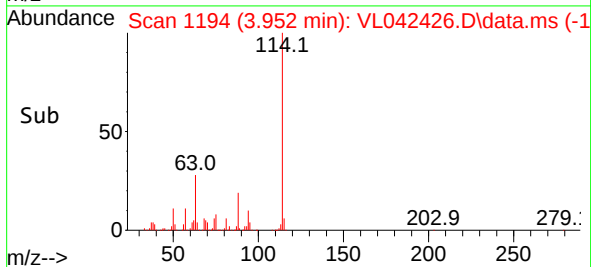
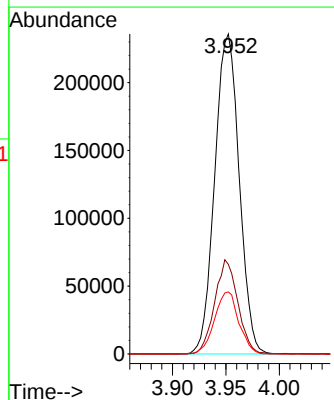
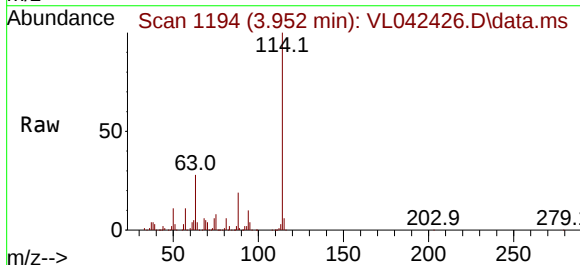
Instrument : MSVOA_L
ClientSampleId : EBR-P02-SL-IA02-20250423

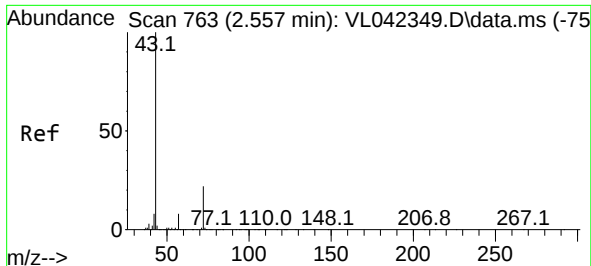
Tgt Ion: 84 Resp: 11034
Ion Ratio Lower Upper
84 100
56 132.7 101.0 151.4
41 101.4 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 114 Resp: 375715
Ion Ratio Lower Upper
114 100
63 27.8 21.8 32.6
88 19.2 15.5 23.3

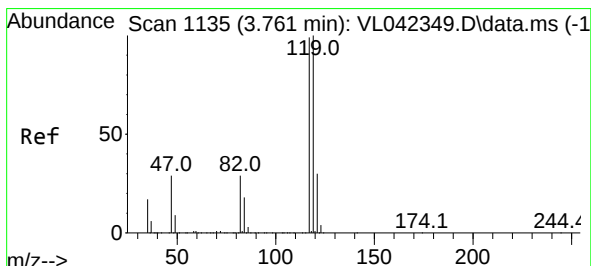
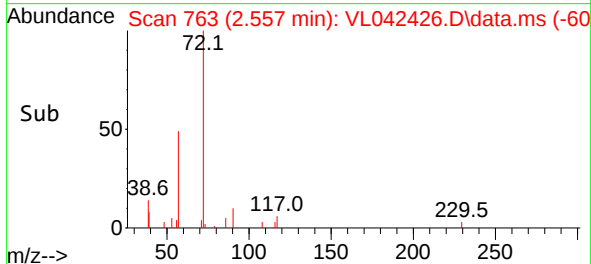
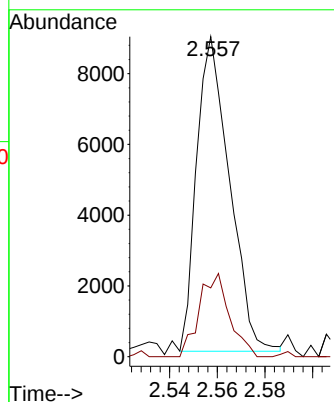
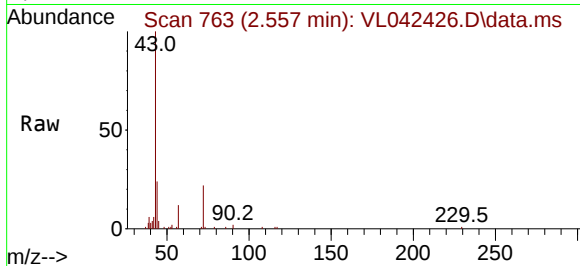




#34
2-Butanone
Concen: 0.288 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

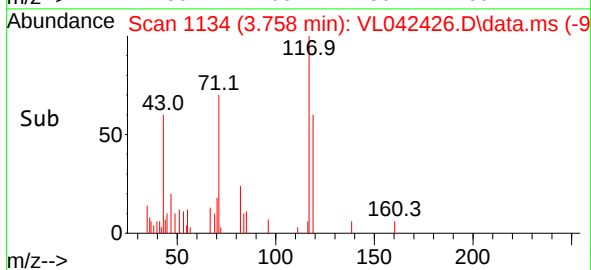
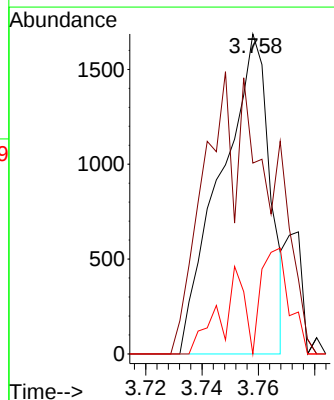
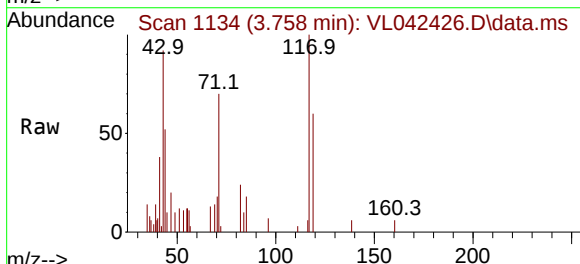
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SL-IA02-20250423

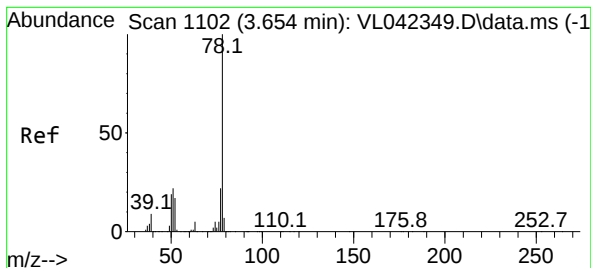
Tgt Ion: 43 Resp: 8551
Ion Ratio Lower Upper
43 100
72 24.7 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 117 Resp: 2037
Ion Ratio Lower Upper
117 100
119 49.3 80.5 120.7#
121 0.0 24.2 36.2#





#36

Benzene

Concen: 0.096 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. -0.006 min

Lab File: VL042426.D

Acq: 28 Apr 2025 15:08

Instrument :

MSVOA_L

ClientSampleId :

EBR-P02-SL-IA02-20250423

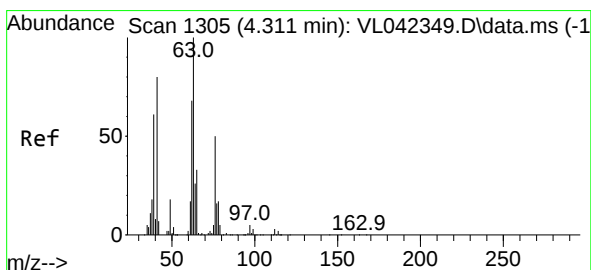
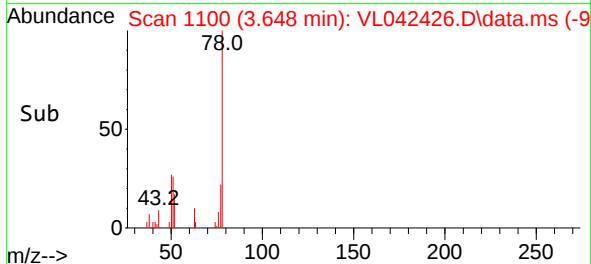
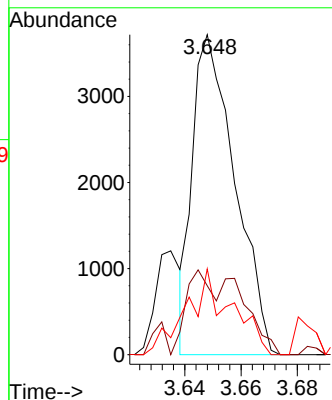
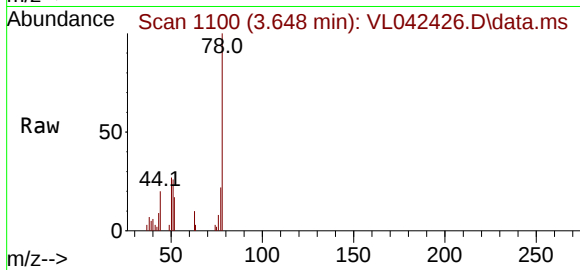
Tgt Ion: 78 Resp: 3890

Ion Ratio Lower Upper

78 100

77 21.5 17.4 26.0

50 26.8 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 6.915 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.362 min

Lab File: VL042426.D

Acq: 28 Apr 2025 15:08

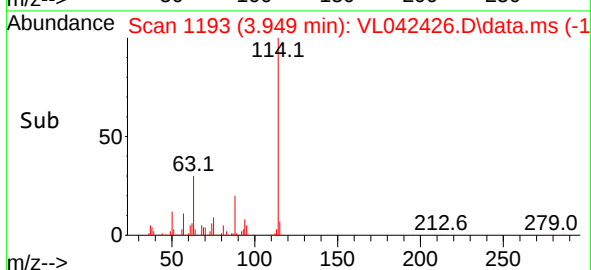
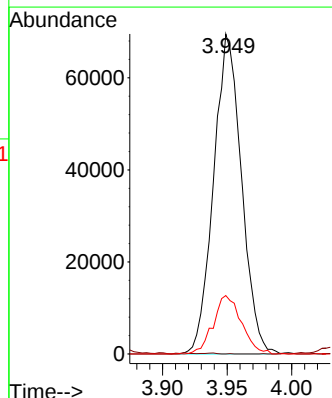
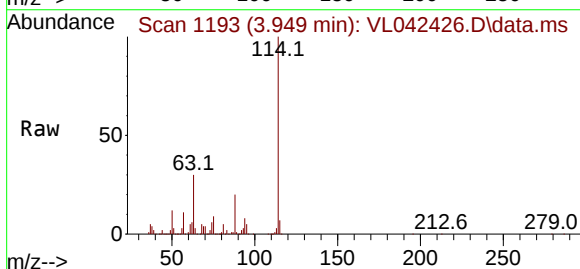
Tgt Ion: 63 Resp: 104432

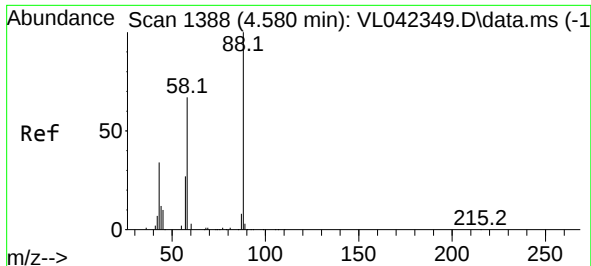
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 18.2 54.3 81.5#

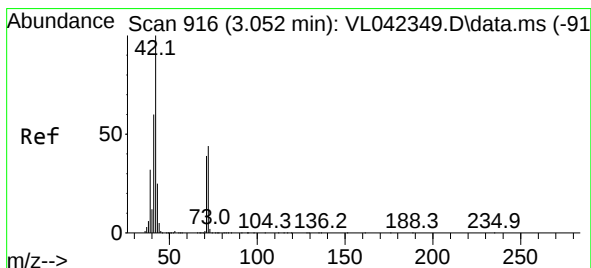
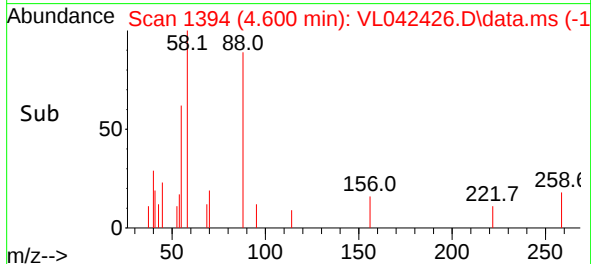
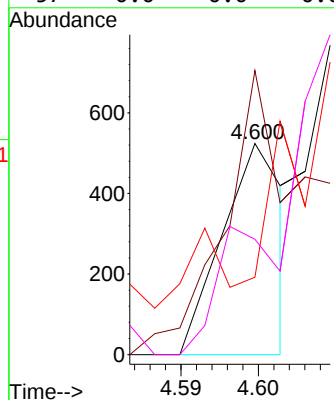
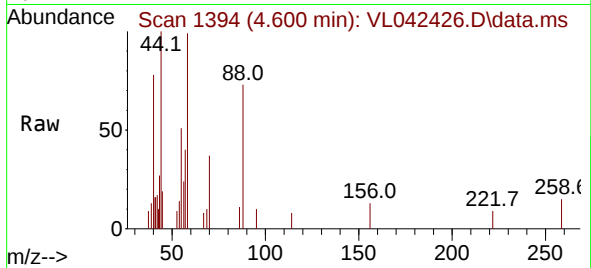




#40
1,4-Dioxane
Concen: 0.034 ppbv
RT: 4.600 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

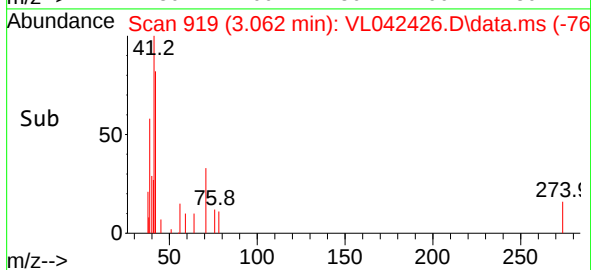
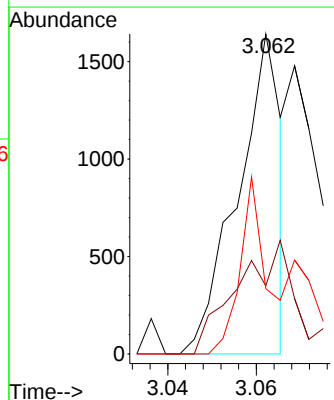
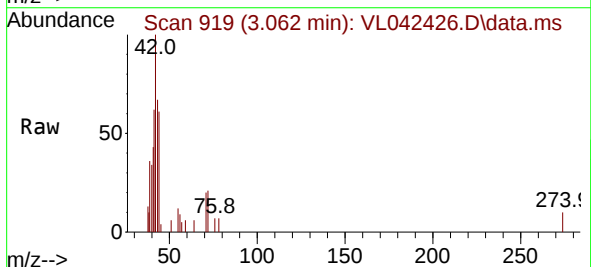
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SL-IA02-20250423

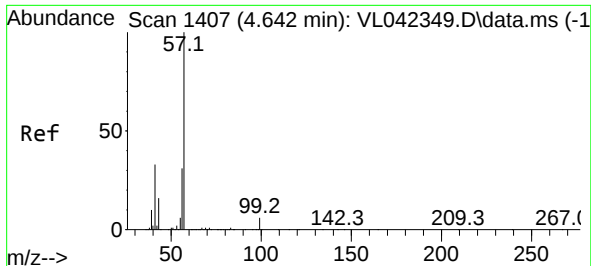
Tgt Ion: 88 Resp: 286
Ion Ratio Lower Upper
88 100
58 357.0 61.4 92.0#
43 227.3 23.2 34.8#
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 0.064 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.010 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 42 Resp: 1116
Ion Ratio Lower Upper
42 100
72 49.0 32.3 48.5#
71 56.6 31.4 47.2#

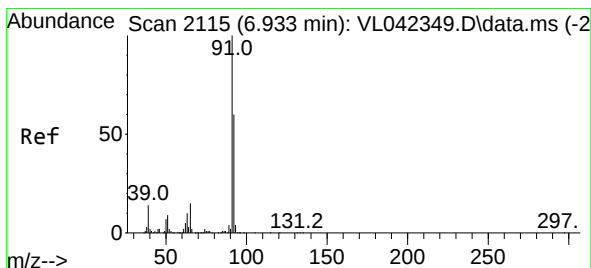
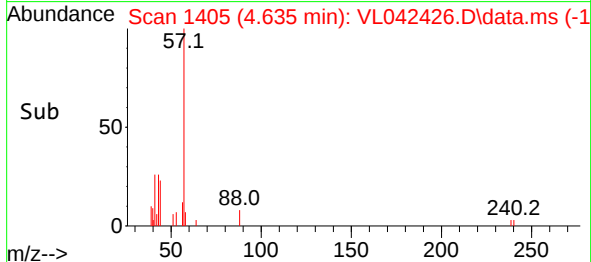
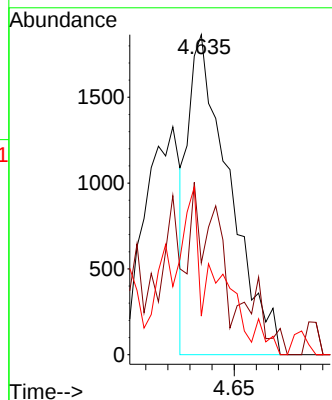
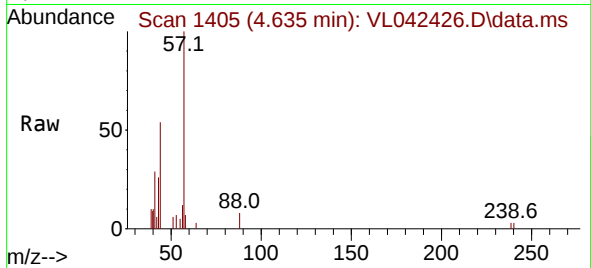




#44
 2,2,4-Trimethylpentane
 Concen: 0.034 ppbv
 RT: 4.635 min Scan# 1405
 Delta R.T. -0.006 min
 Lab File: VL042426.D
 Acq: 28 Apr 2025 15:08

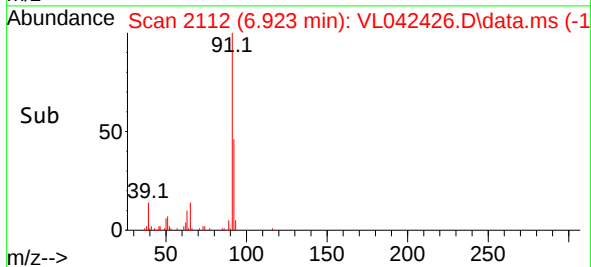
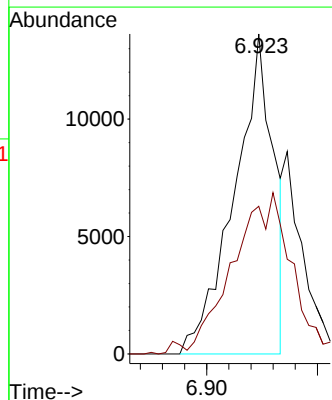
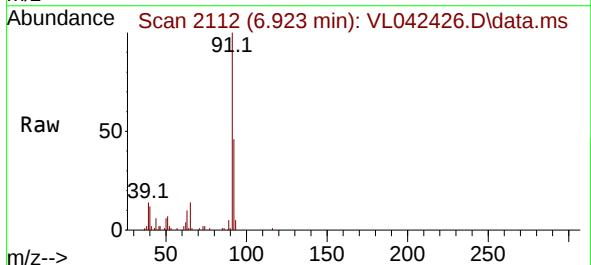
Instrument : MSVOA_1
 ClientSampleId : EBR-P02-SL-IA02-20250423

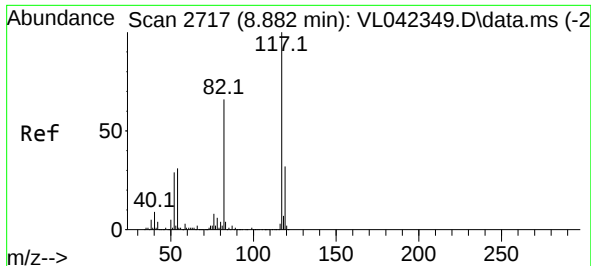
Tgt Ion:	57	Resp:	2408
Ion	Ratio	Lower	Upper
57	100		
41	81.8	27.2	40.8#
56	59.8	25.7	38.5#



#53
 Toluene
 Concen: 0.344 ppbv
 RT: 6.923 min Scan# 2112
 Delta R.T. -0.010 min
 Lab File: VL042426.D
 Acq: 28 Apr 2025 15:08

Tgt Ion:	91	Resp:	16750
Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.2	72.4#

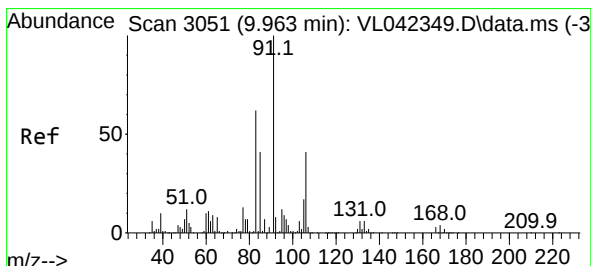
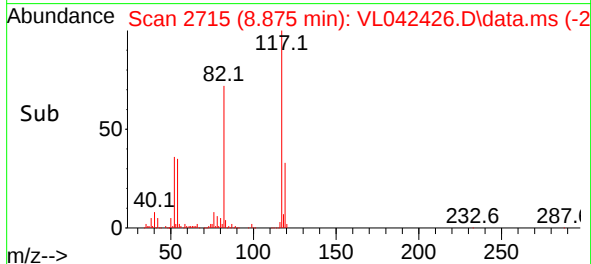
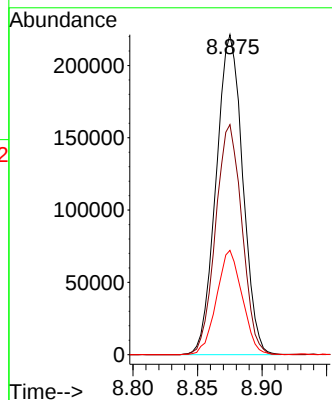
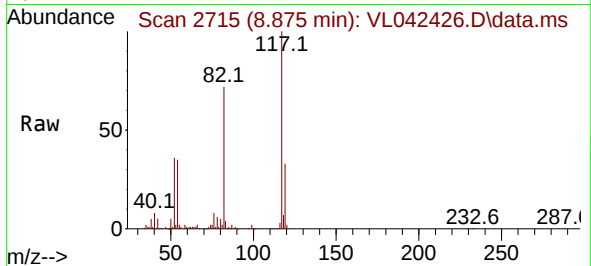




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

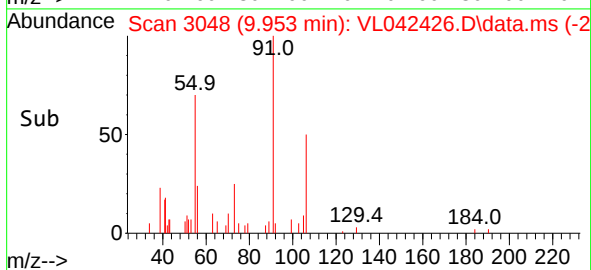
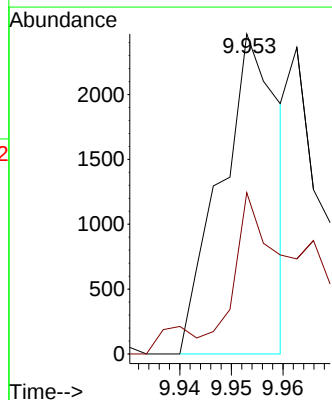
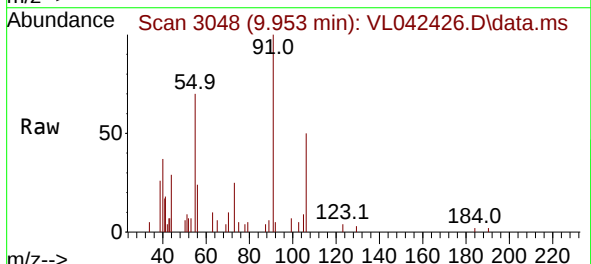
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SL-IA02-20250423

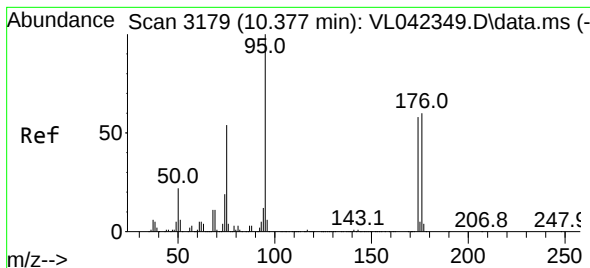
Tgt Ion: 117 Resp: 317341
Ion Ratio Lower Upper
117 100
82 71.3 57.8 86.6
119 31.5 25.2 37.8



#60
o-Xylene
Concen: 0.037 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.010 min
Lab File: VL042426.D
Acq: 28 Apr 2025 15:08

Tgt Ion: 91 Resp: 1907
Ion Ratio Lower Upper
91 100
106 66.4 21.1 63.4#

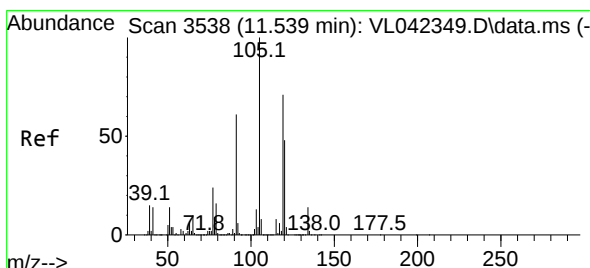
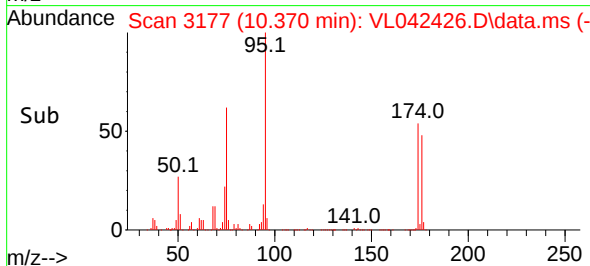
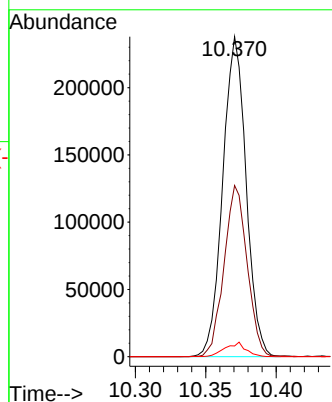
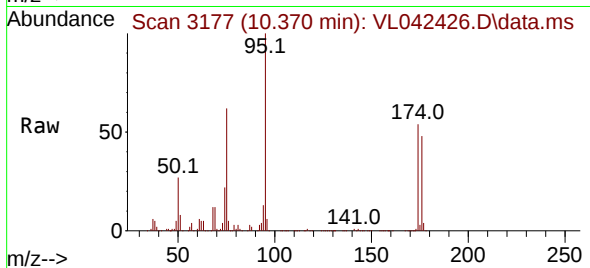




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.543 ppbv
 RT: 10.370 min Scan# 3179
 Delta R.T. -0.006 min
 Lab File: VL042426.D
 Acq: 28 Apr 2025 15:08

Instrument : MSVOA_L
 ClientSampleId : EBR-P02-SL-IA02-20250423

Tgt Ion: 95 Resp: 274941
 Ion Ratio Lower Upper
 95 100
 174 53.1 48.5 72.7
 175 4.0 3.7 5.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.061 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.006 min
 Lab File: VL042426.D
 Acq: 28 Apr 2025 15:08

Tgt Ion: 105 Resp: 3954
 Ion Ratio Lower Upper
 105 100
 120 48.8 38.1 57.1
 91 29.2 48.8 73.2#
 77 22.9 19.0 28.4

