

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042430.D
 Acq On : 28 Apr 2025 17:26
 Operator : SY/MD
 Sample : Q1880-10DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P16-SC-AA01-20250422DUP

Quant Time: Apr 29 01:40:34 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	2.784	49	123451	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	338945	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	287606	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	253604	10.731	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.300%

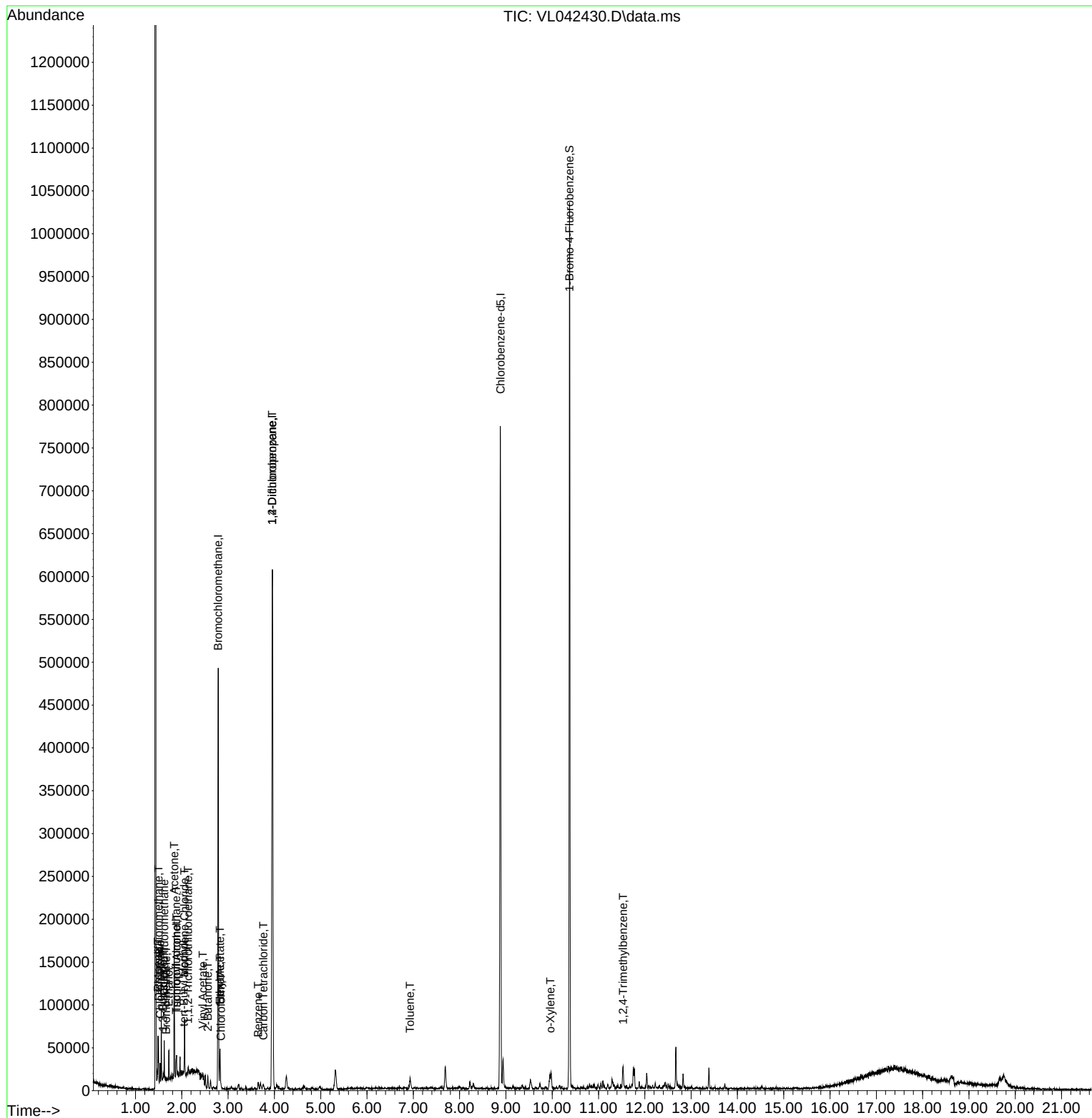
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	10657	0.489	ppbv	96
3) Chlorodifluoromethane	1.622	51	1028	0.049	ppbv	97
4) Chloromethane	1.531	50	5508	0.638	ppbv	90
6) Bromomethane	1.660	94	240	0.059	ppbv #	8
9) Propene	1.486	41	3592	0.380	ppbv	96
11) Trichlorofluoromethane	1.877	101	5173	0.249	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.133	101	822	0.048	ppbv #	14
13) Ethanol	1.719	45	11752	7.817	ppbv #	24
15) Acetone	1.835	43	68736	3.401	ppbv	95
16) 1,3-Butadiene	1.596	39	1103	0.114	ppbv #	58
17) tert-Butyl alcohol	2.046	59	1203	0.048	ppbv #	1
19) Isopropyl Alcohol	1.887	45	9452	0.842	ppbv #	1
20) Methylene Chloride	2.059	84	8785	1.110	ppbv #	82
23) Vinyl Acetate	2.453	43	5592	0.684	ppbv #	85
25) Ethyl Acetate	2.826	43	8518	0.171	ppbv #	81
26) Hexane	2.826	57	9897	0.491	ppbv #	39
29) Chloroform	2.848	83	1190	0.042	ppbv #	78
34) 2-Butanone	2.560	43	8526	0.318	ppbv	99
35) Carbon Tetrachloride	3.761	117	1449	0.047	ppbv #	68
36) Benzene	3.651	78	2512	0.069	ppbv	95
39) 1,2-Dichloropropane	3.955	63	96842	7.108	ppbv #	22
53) Toluene	6.930	91	4595	0.105	ppbv #	45
60) o-Xylene	9.959	91	2727	0.059	ppbv	91
74) 1,2,4-Trimethylbenzene	11.532	105	5213	0.089	ppbv #	59

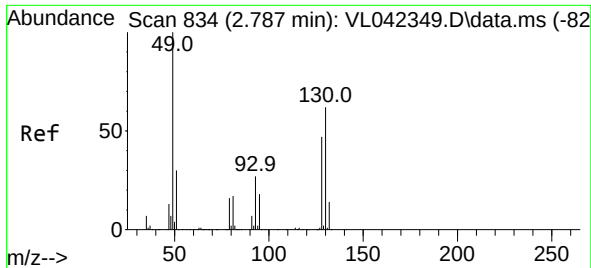
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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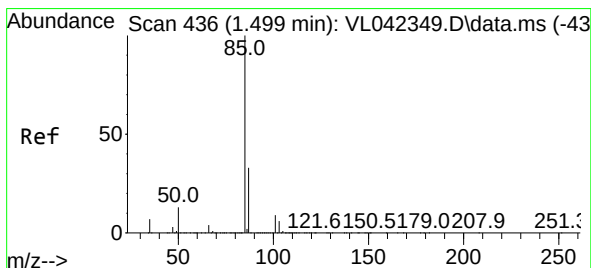
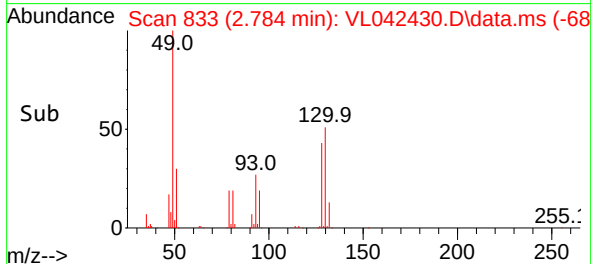
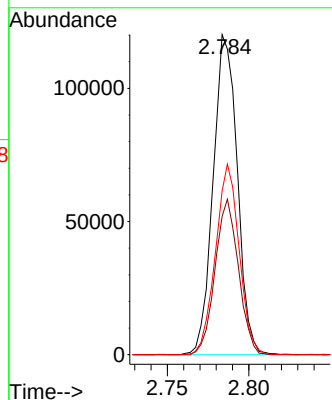
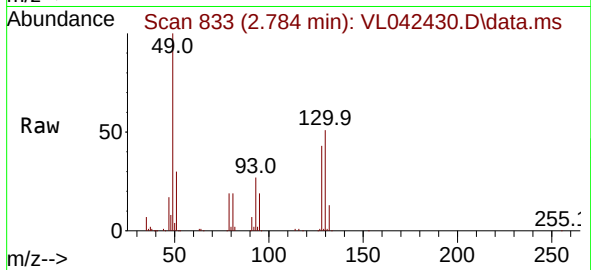




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

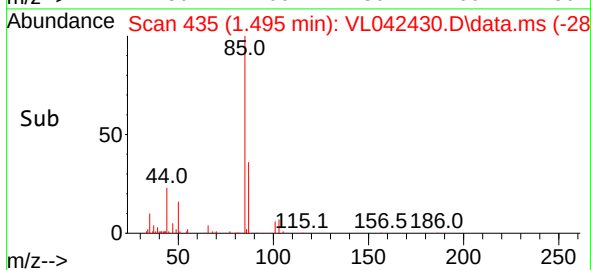
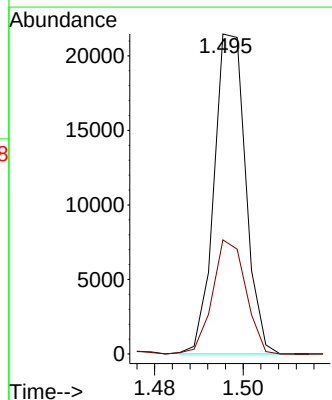
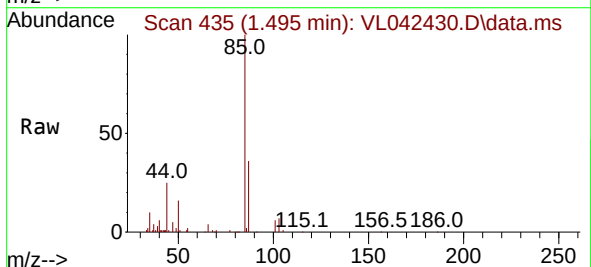
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-AA01-20250422DUP

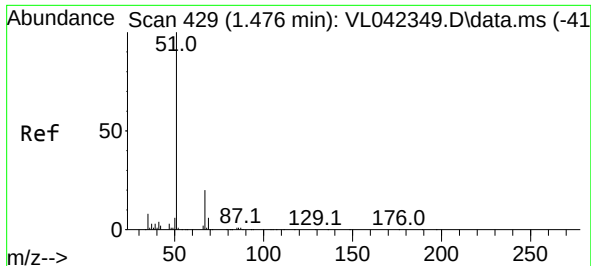
Tgt Ion: 49 Resp: 123451
Ion Ratio Lower Upper
49 100
128 47.1 22.8 68.4
130 58.3 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.489 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion: 85 Resp: 10657
Ion Ratio Lower Upper
85 100
87 35.7 26.6 39.8

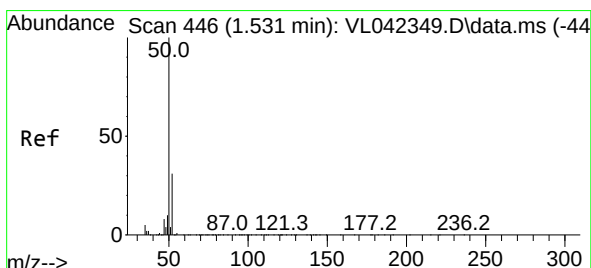
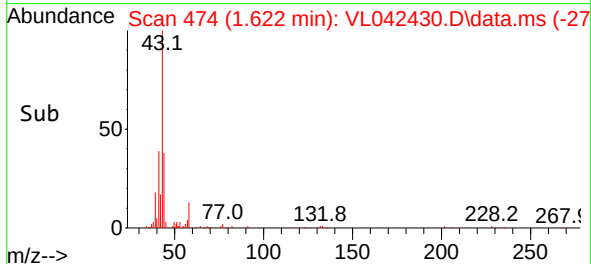
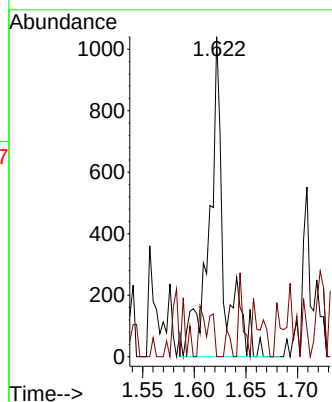
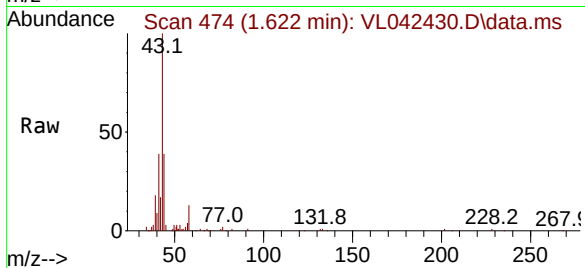




#3
Chlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.146 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

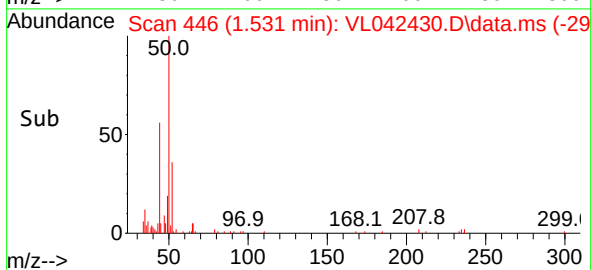
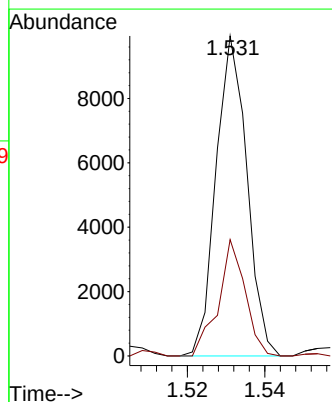
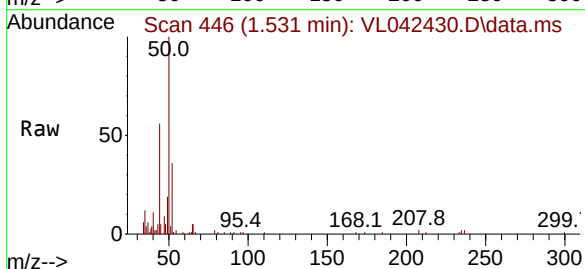
Instrument :
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ClientSampleId :
EBR-P16-SC-AA01-20250422DUP

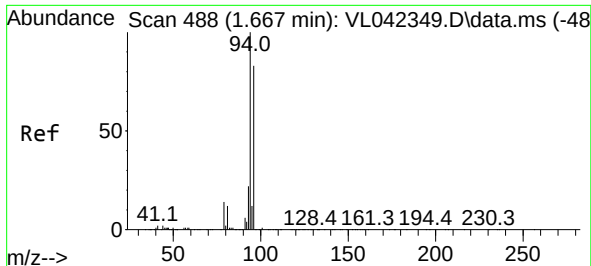
Tgt Ion: 51 Resp: 1028
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4



#4
Chloromethane
Concen: 0.638 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion: 50 Resp: 5508
Ion Ratio Lower Upper
50 100
52 36.3 24.7 37.1

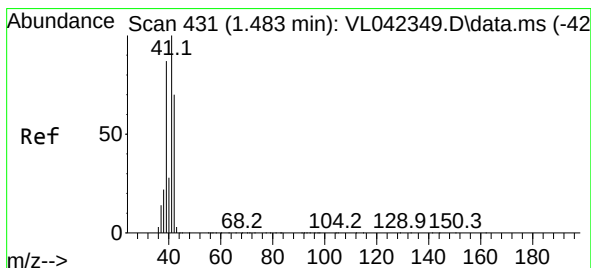
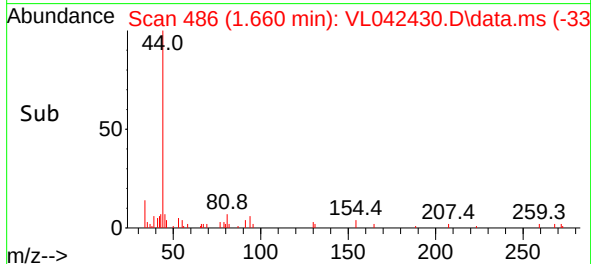
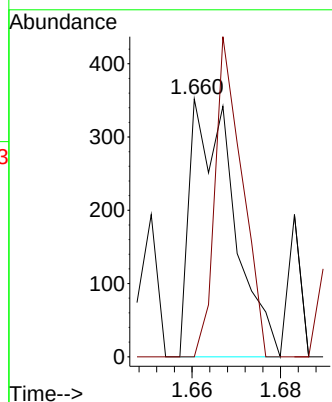
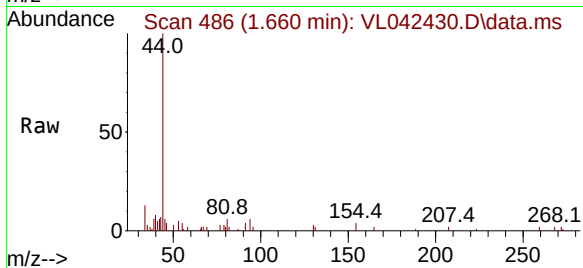




#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.660 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

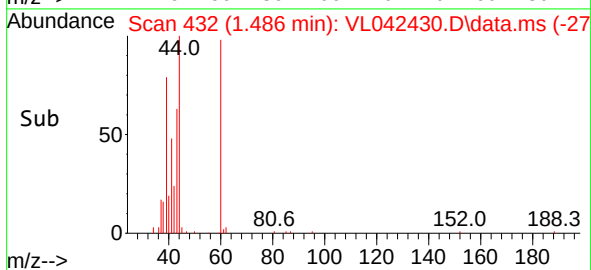
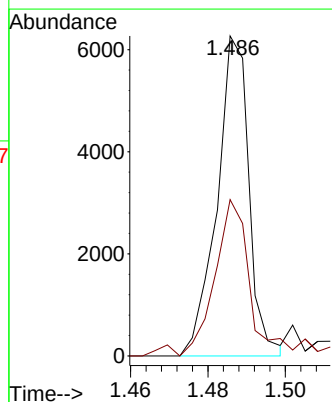
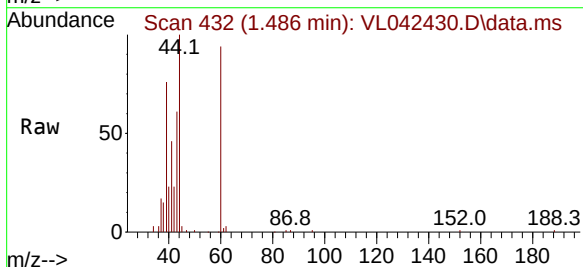
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA01-20250422DUP

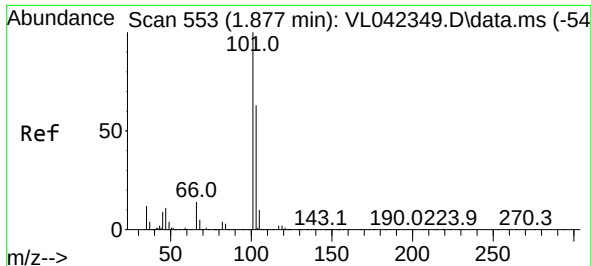
Tgt Ion: 94 Resp: 240
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#9
Propene
Concen: 0.380 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion: 41 Resp: 3592
Ion Ratio Lower Upper
41 100
42 66.7 56.2 84.4

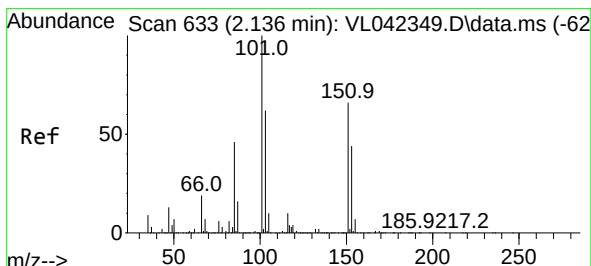
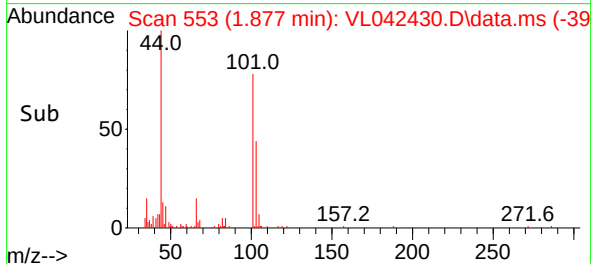
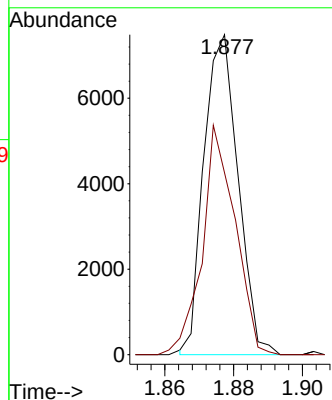
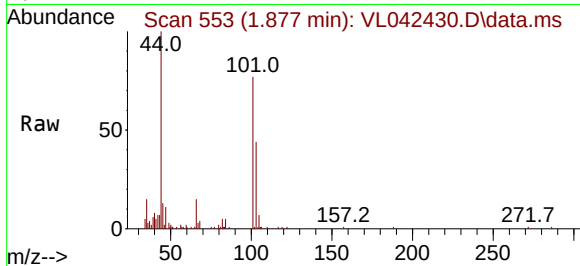




#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042430.D
 Acq: 28 Apr 2025 17:26

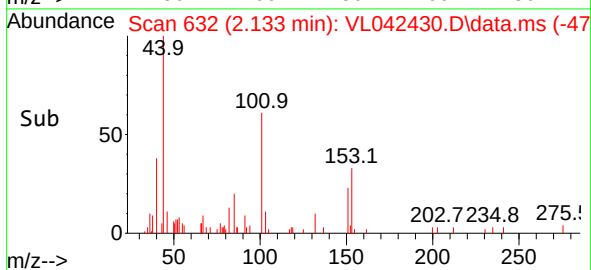
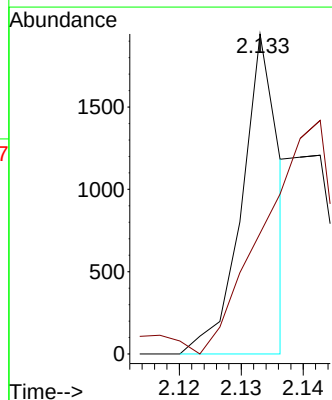
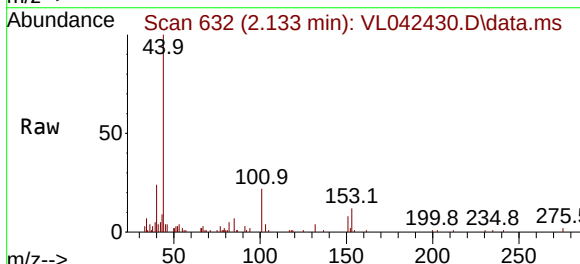
Instrument :
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 ClientSampleId :
 EBR-P16-SC-AA01-20250422DUP

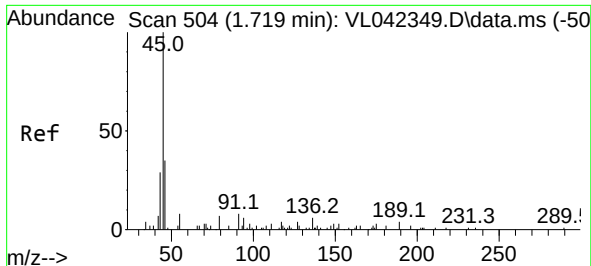
Tgt Ion:101 Resp: 5173
 Ion Ratio Lower Upper
 101 100
 103 56.8 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.048 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. -0.003 min
 Lab File: VL042430.D
 Acq: 28 Apr 2025 17:26

Tgt Ion:101 Resp: 822
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.0 85.6#

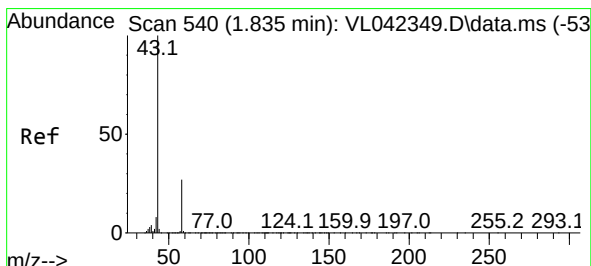
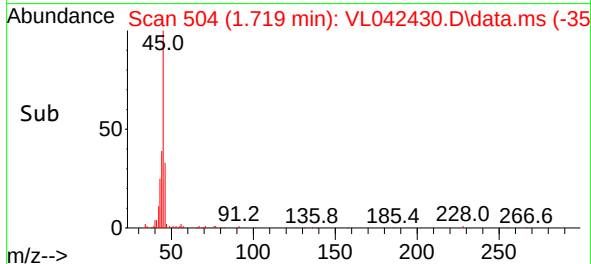
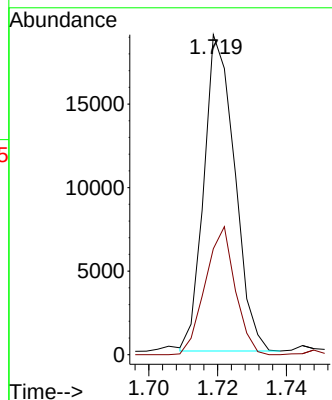
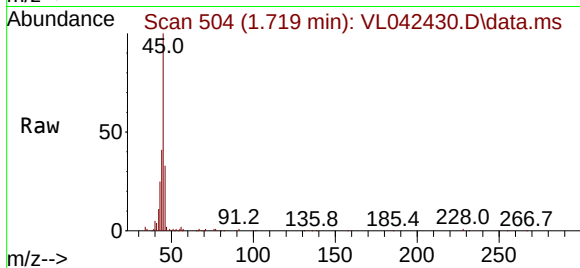




#13
Ethanol
Concen: 7.817 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

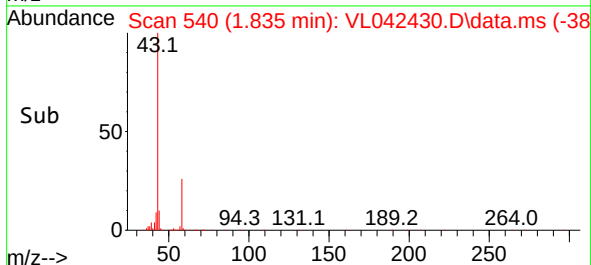
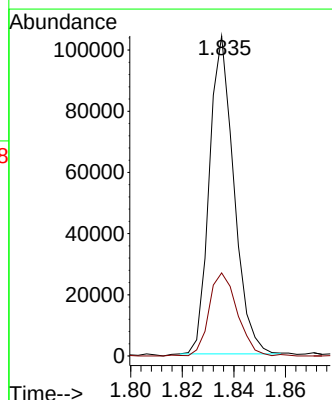
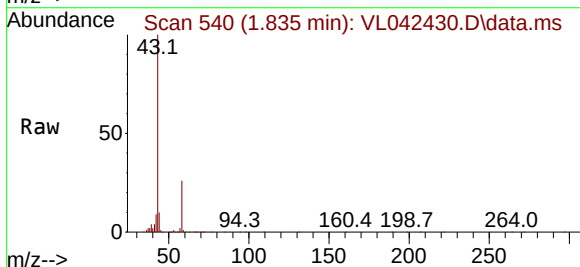
Instrument : MSVOA_1
ClientSampleId : EBR-P16-SC-AA01-20250422DUP

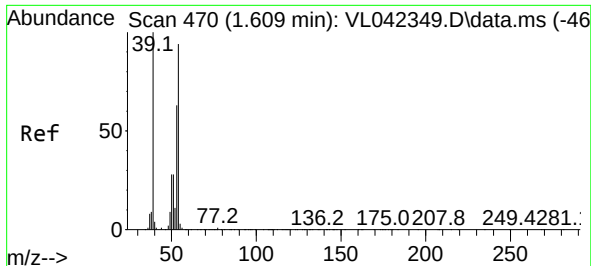
Tgt Ion: 45 Resp: 11752
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 3.401 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion: 43 Resp: 68736
Ion Ratio Lower Upper
43 100
58 30.4 22.4 33.6





#16

1,3-Butadiene

Concen: 0.114 ppbv

RT: 1.596 min Scan# 4

Delta R.T. -0.013 min

Lab File: VL042430.D

Acq: 28 Apr 2025 17:26

Instrument :

MSVOA_L

ClientSampleId :

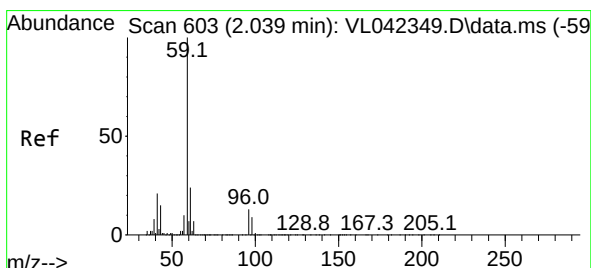
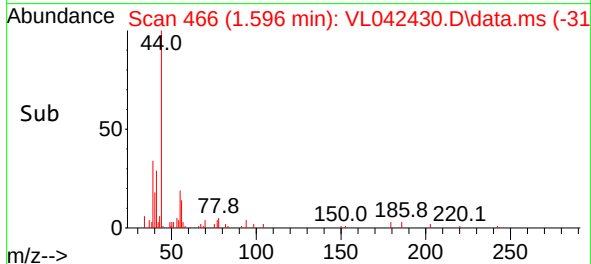
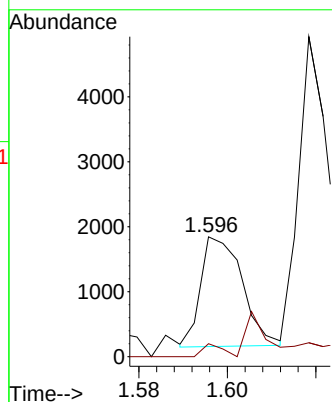
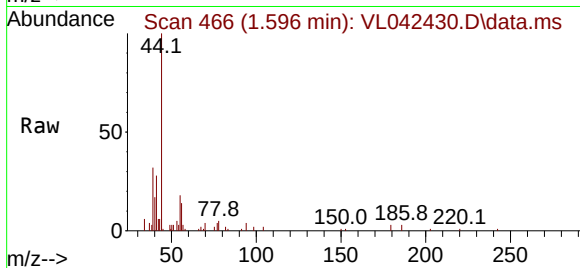
EBR-P16-SC-AA01-20250422DUP

Tgt Ion: 39 Resp: 1103

Ion Ratio Lower Upper

39 100

54 43.7 64.9 97.3#



#17

tert-Butyl alcohol

Concen: 0.048 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.006 min

Lab File: VL042430.D

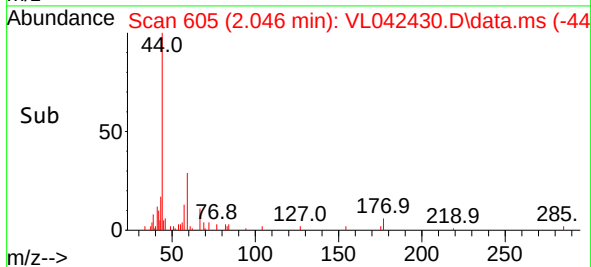
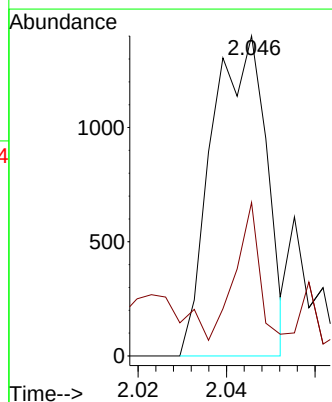
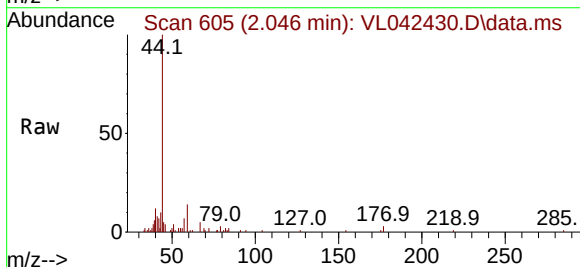
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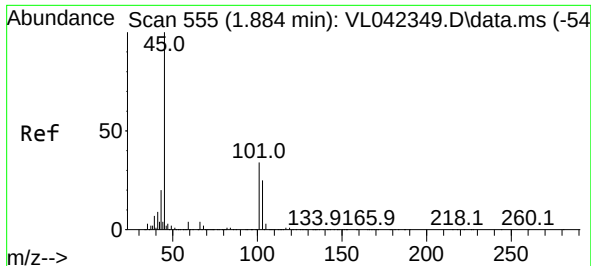
Tgt Ion: 59 Resp: 1203

Ion Ratio Lower Upper

59 100

57 68.6 8.7 13.1#

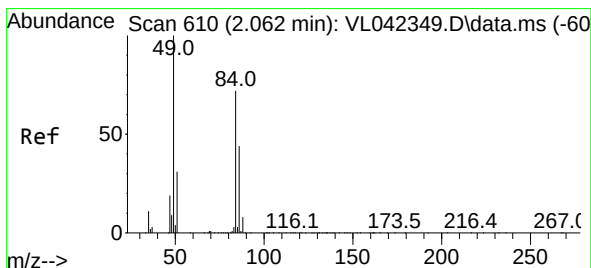
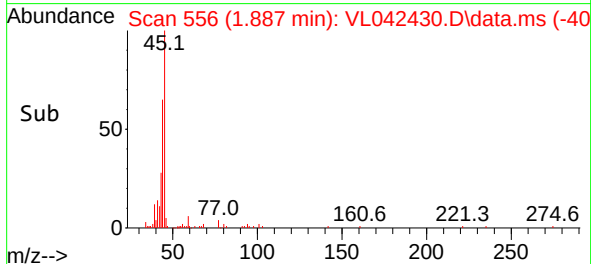
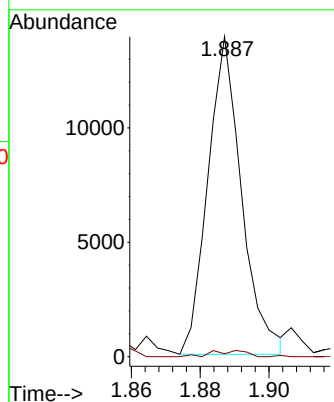
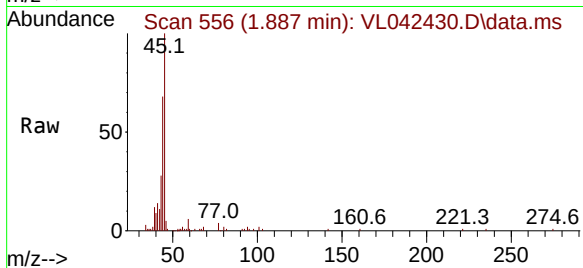




#19
Isopropyl Alcohol
Concen: 0.842 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

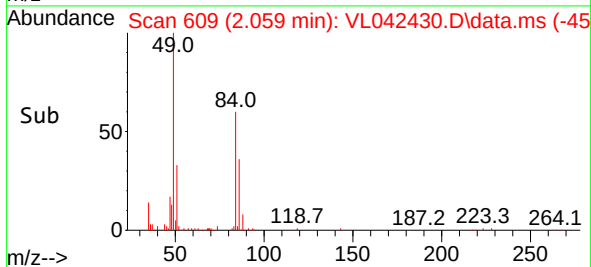
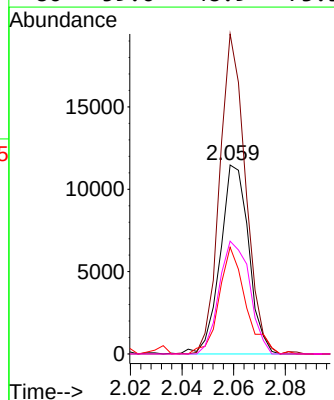
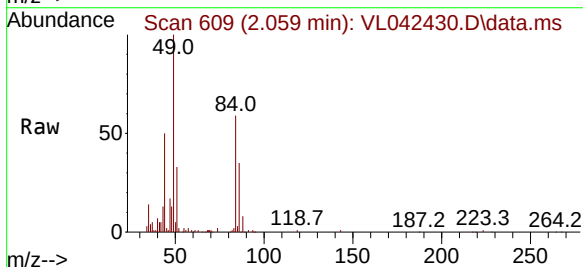
Instrument :
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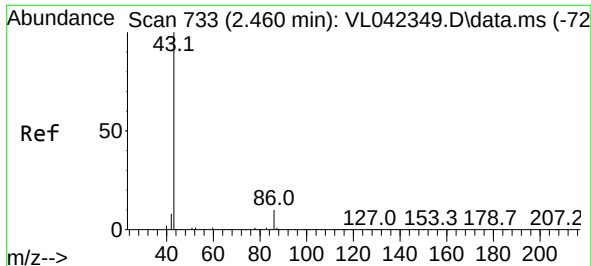
Tgt Ion: 45 Resp: 9452
Ion Ratio Lower Upper
45 100
58 221.4 34.5 51.7#



#20
Methylene Chloride
Concen: 1.110 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion: 84 Resp: 8785
Ion Ratio Lower Upper
84 100
49 169.3 111.6 167.4#
51 56.5 35.1 52.7#
86 59.6 48.9 73.3

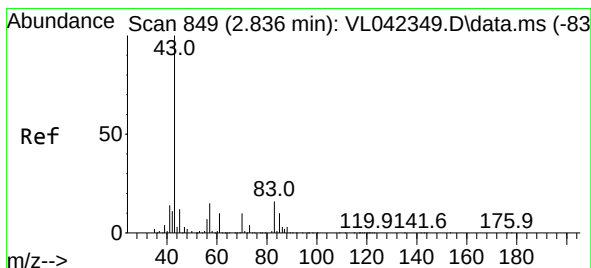
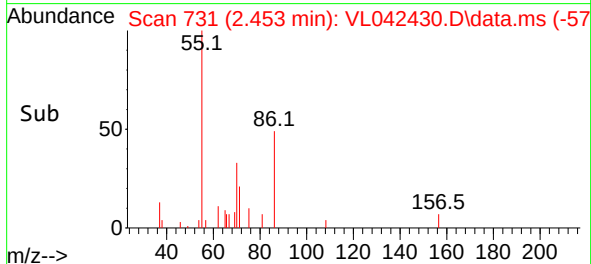
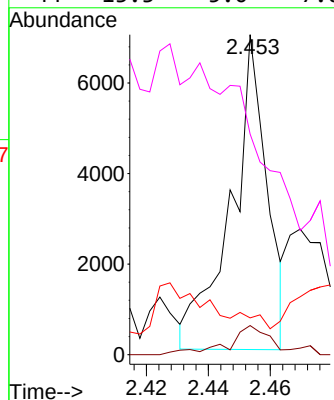
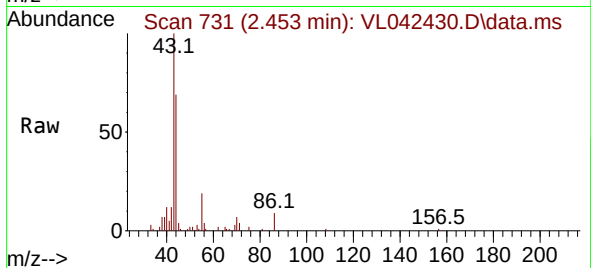




#23
 Vinyl Acetate
 Concen: 0.684 ppbv
 RT: 2.453 min Scan# 71
 Delta R.T. -0.007 min
 Lab File: VL042430.D
 Acq: 28 Apr 2025 17:26

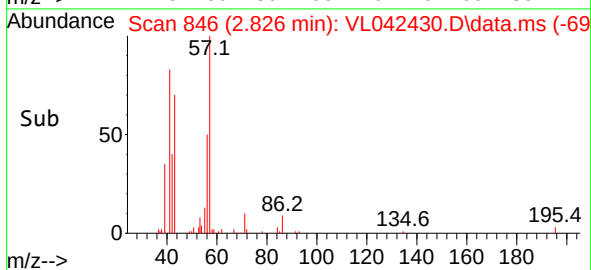
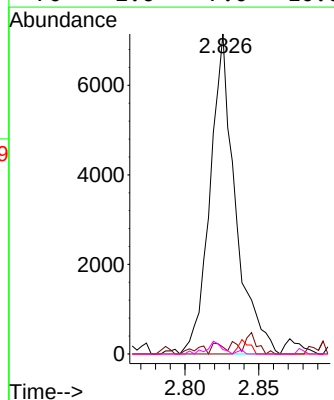
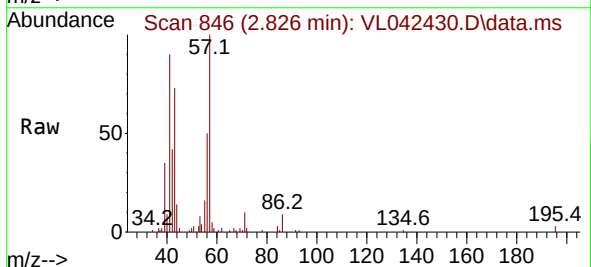
Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P16-SC-AA01-20250422DUP

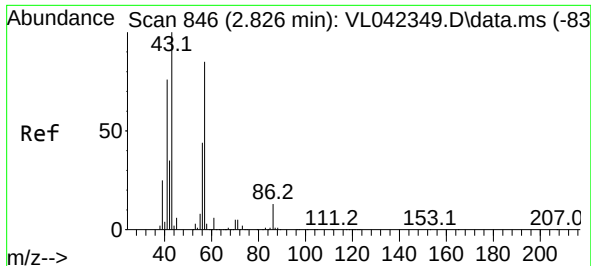
Tgt Ion: 43	Resp:	5592
Ion Ratio	Lower	Upper
43	100	
86	8.5	6.5 9.7
42	1.2	7.8 11.8#
44	13.3	5.0 7.6#



#25
 Ethyl Acetate
 Concen: 0.171 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.010 min
 Lab File: VL042430.D
 Acq: 28 Apr 2025 17:26

Tgt Ion: 43	Resp:	8518
Ion Ratio	Lower	Upper
43	100	
45	5.0	8.3 12.5#
61	0.0	7.3 10.9#
70	2.6	7.0 10.6#

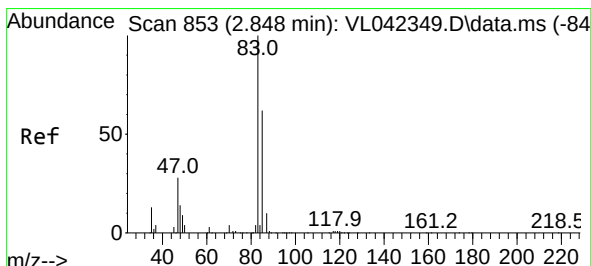
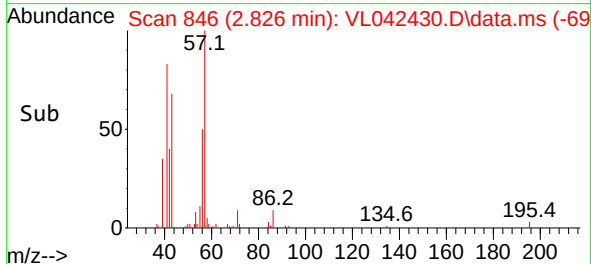
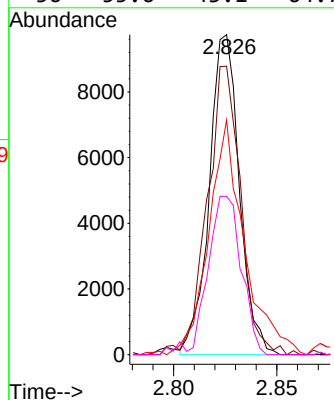
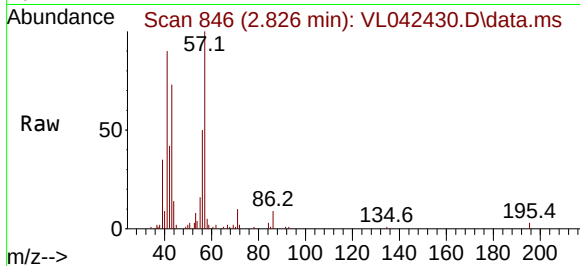




#26
Hexane
Concen: 0.491 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

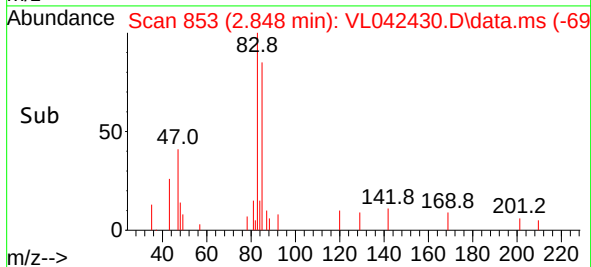
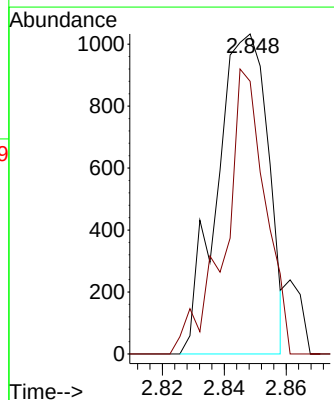
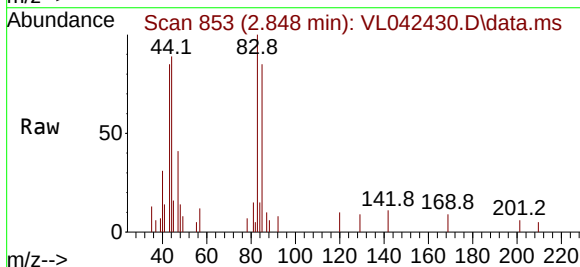
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA01-20250422DUP

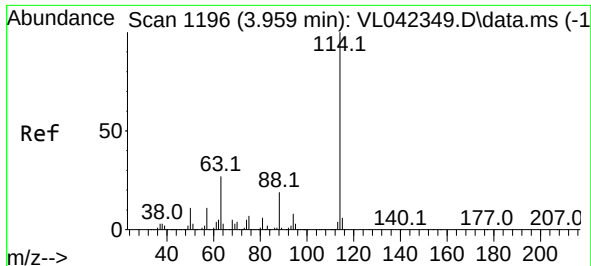
Tgt Ion:	57	Resp:	9897
Ion	Ratio	Lower	Upper
57	100		
41	100.8	77.9	116.9
43	89.9	208.4	312.6#
56	55.6	43.1	64.7



#29
Chloroform
Concen: 0.042 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.000 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion:	83	Resp:	1190
Ion	Ratio	Lower	Upper
83	100		
85	79.8	50.0	75.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL042430.D

Acq: 28 Apr 2025 17:26

Instrument :

MSVOA_L

ClientSampleId :

EBR-P16-SC-AA01-20250422DUP

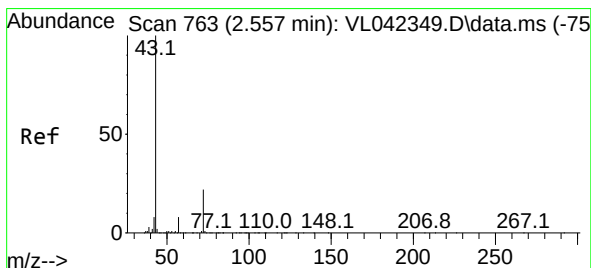
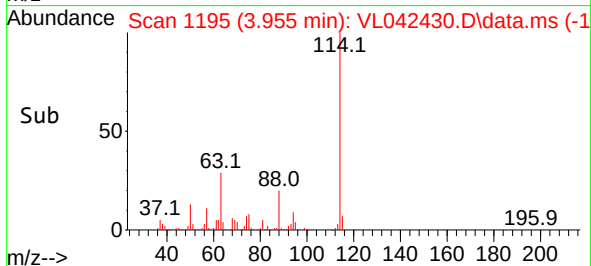
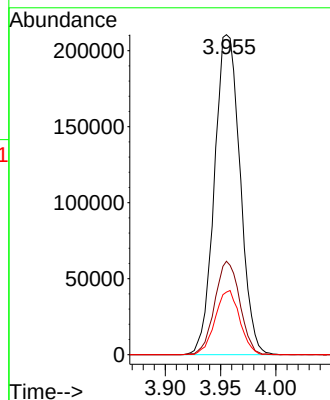
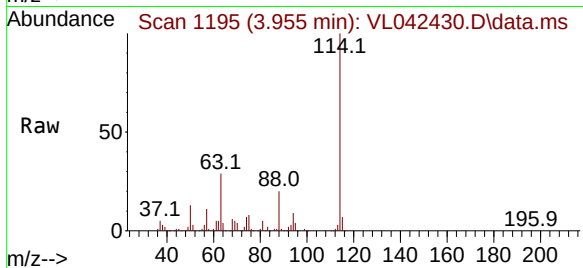
Tgt Ion:114 Resp: 338945

Ion Ratio Lower Upper

114 100

63 28.6 21.8 32.6

88 19.3 15.5 23.3



#34

2-Butanone

Concen: 0.318 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL042430.D

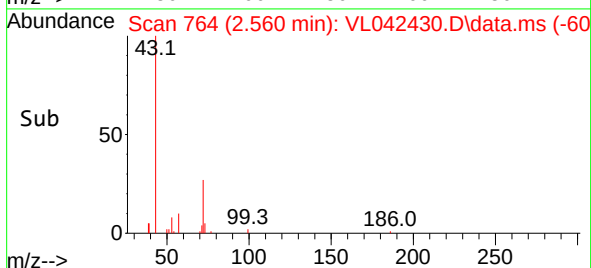
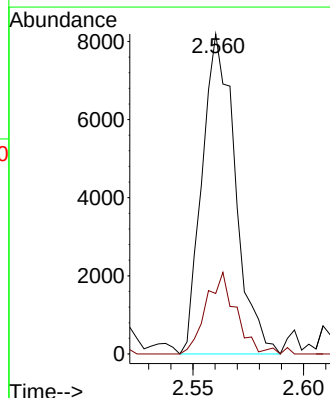
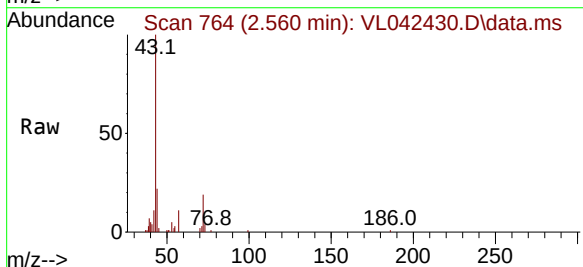
Acq: 28 Apr 2025 17:26

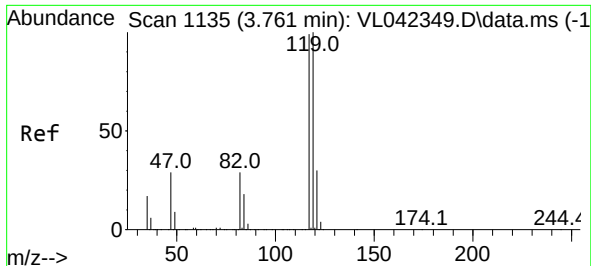
Tgt Ion: 43 Resp: 8526

Ion Ratio Lower Upper

43 100

72 23.4 18.2 27.2

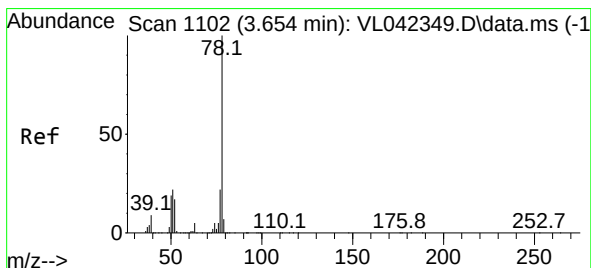
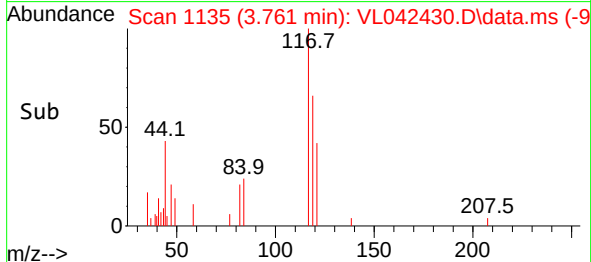
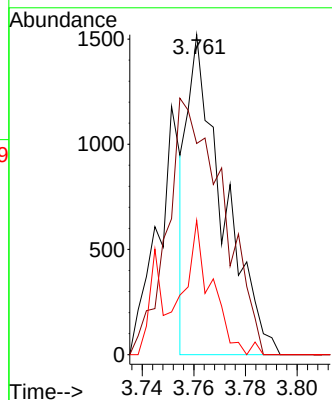
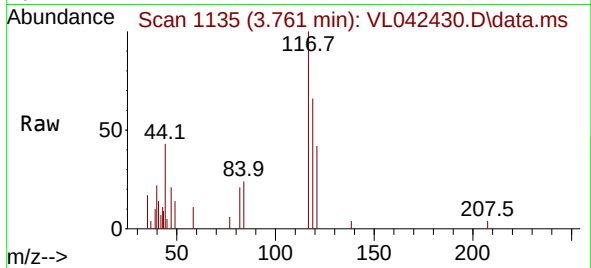




#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

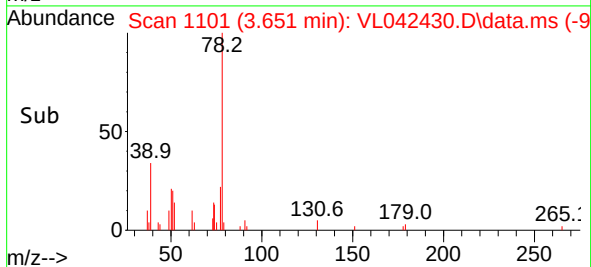
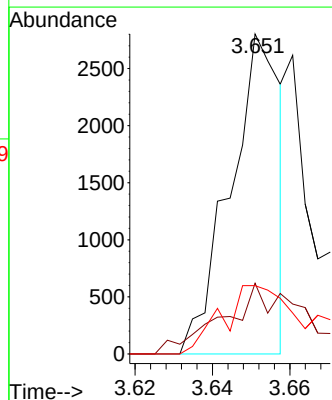
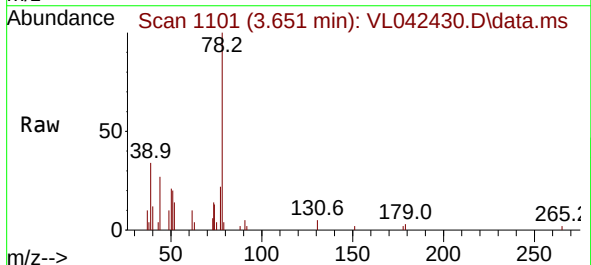
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA01-20250422DUP

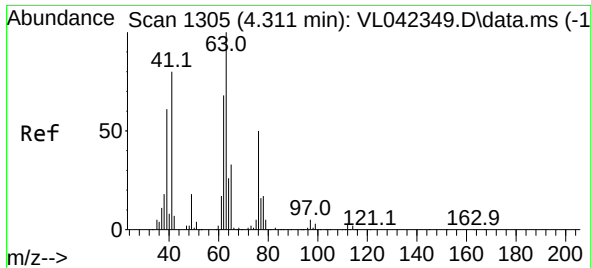
Tgt Ion: 117 Resp: 1449
Ion Ratio Lower Upper
117 100
119 66.0 80.5 120.7#
121 41.9 24.2 36.2#



#36
Benzene
Concen: 0.069 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion: 78 Resp: 2512
Ion Ratio Lower Upper
78 100
77 19.1 17.4 26.0
50 21.3 15.5 23.3





#39

1,2-Dichloropropane

Concen: 7.108 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042430.D

Acq: 28 Apr 2025 17:26

Instrument :

MSVOA_L

ClientSampleId :

EBR-P16-SC-AA01-20250422DUP

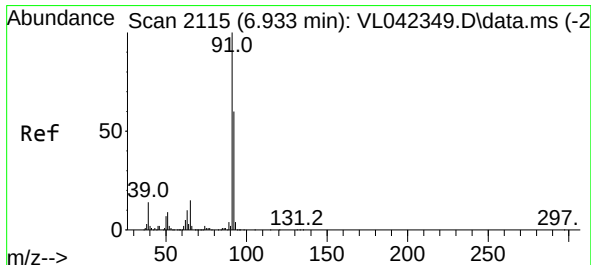
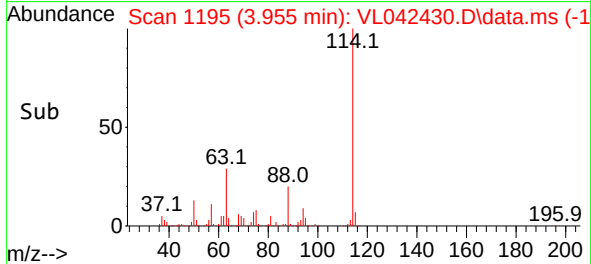
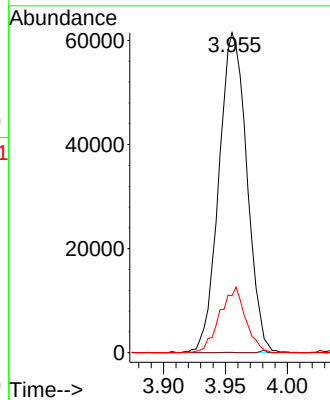
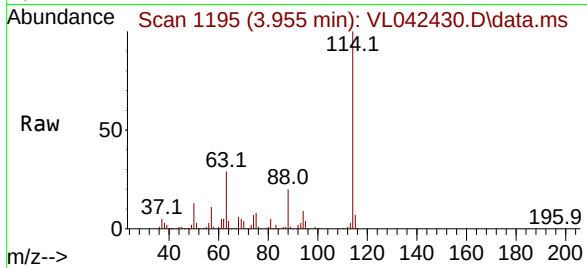
Tgt Ion: 63 Resp: 96842

Ion Ratio Lower Upper

63 100

41 0.1 64.2 96.2#

62 17.8 54.3 81.5#



#53

Toluene

Concen: 0.105 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.003 min

Lab File: VL042430.D

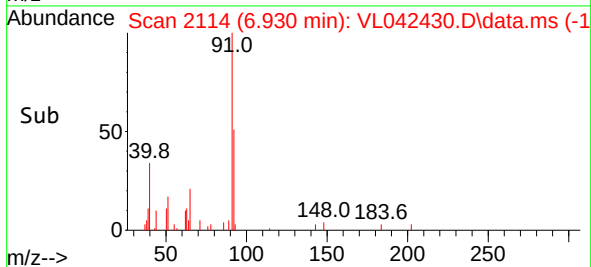
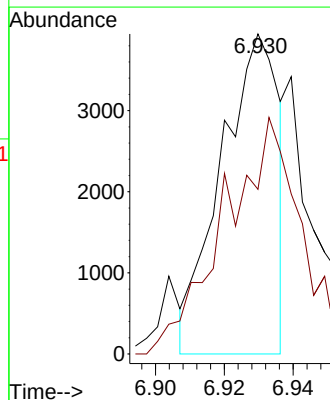
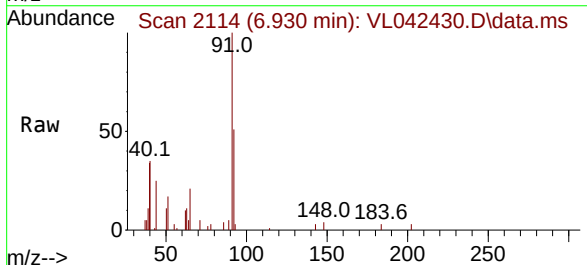
Acq: 28 Apr 2025 17:26

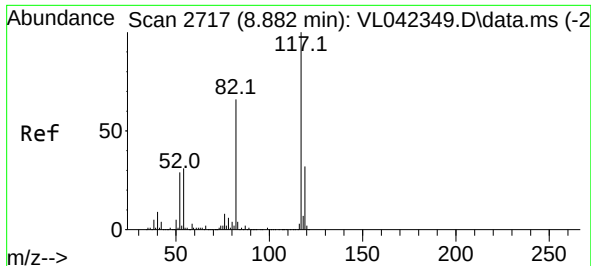
Tgt Ion: 91 Resp: 4595

Ion Ratio Lower Upper

91 100

92 101.7 48.2 72.4#

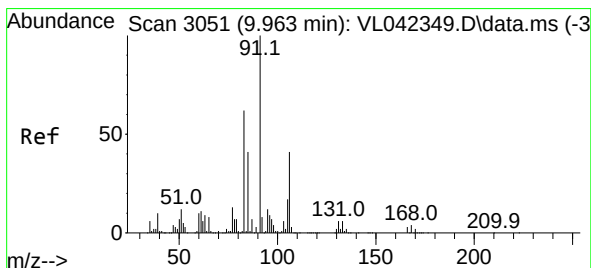
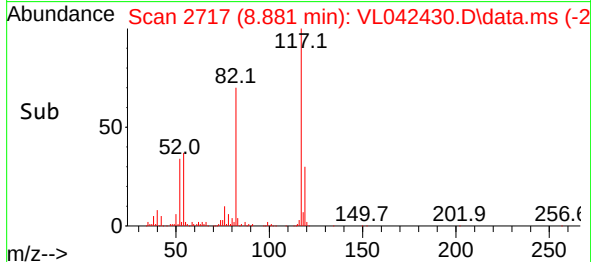
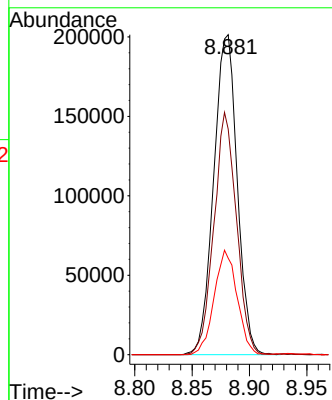
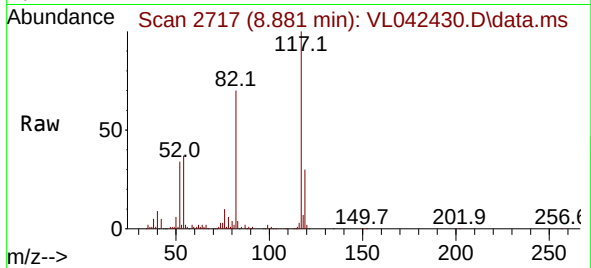




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

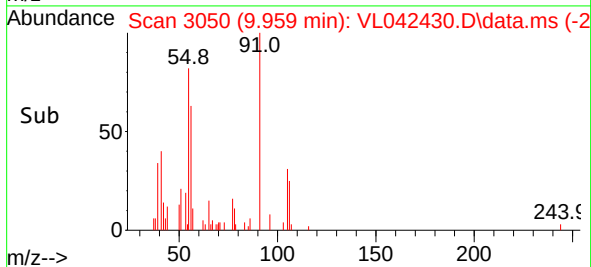
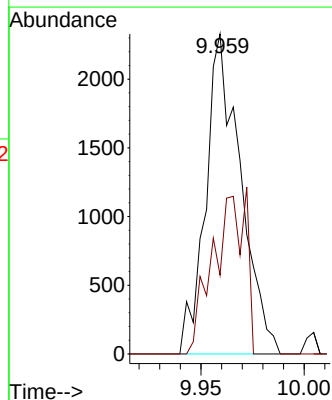
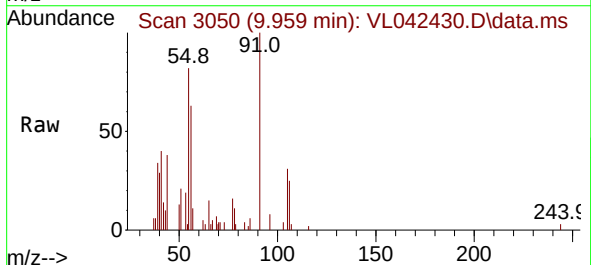
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-AA01-20250422DUP

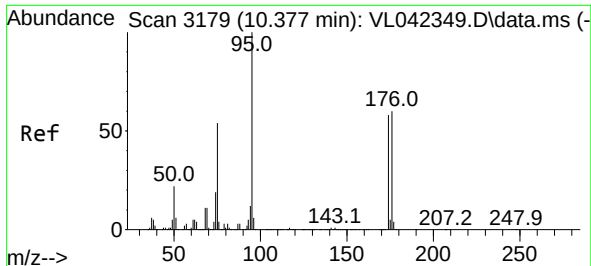
Tgt Ion:117 Resp: 287606
Ion Ratio Lower Upper
117 100
82 72.5 57.8 86.6
119 31.9 25.2 37.8



#60
o-Xylene
Concen: 0.059 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042430.D
Acq: 28 Apr 2025 17:26

Tgt Ion: 91 Resp: 2727
Ion Ratio Lower Upper
91 100
106 47.8 21.1 63.4

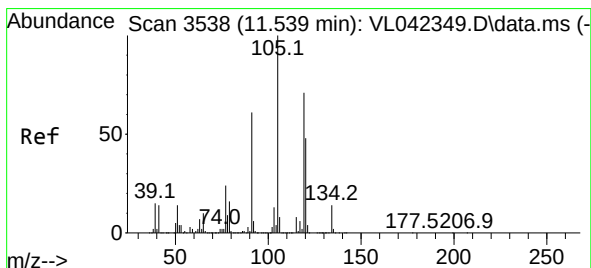
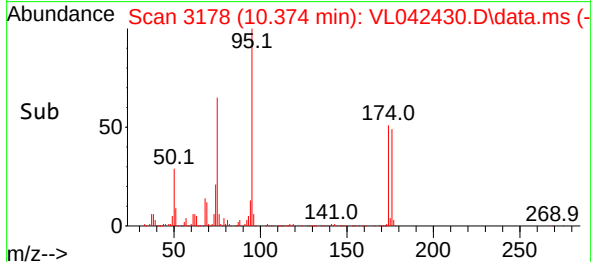
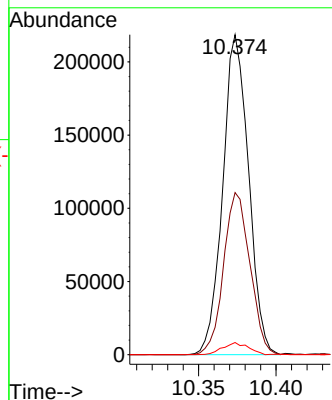
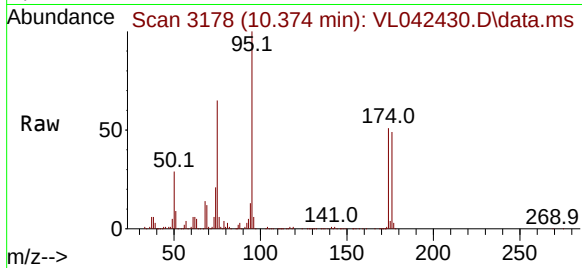




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.731 ppbv
 RT: 10.374 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL042430.D
 Acq: 28 Apr 2025 17:26

Instrument : MSVOA_L
 ClientSampleId : EBR-P16-SC-AA01-20250422DUP

Tgt Ion: 95 Resp: 253604
 Ion Ratio Lower Upper
 95 100
 174 51.7 48.5 72.7
 175 3.8 3.7 5.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.089 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.007 min
 Lab File: VL042430.D
 Acq: 28 Apr 2025 17:26

Tgt Ion: 105 Resp: 5213
 Ion Ratio Lower Upper
 105 100
 120 24.0 38.1 57.1#
 91 20.8 48.8 73.2#
 77 11.8 19.0 28.4#

