

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052424\
 Data File : VL041293.D
 Acq On : 24 May 2024 16:23
 Operator : SY/MD
 Sample : P2599-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 24 23:23:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 24 23:11:50 2024
 Response via : Initial Calibration

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

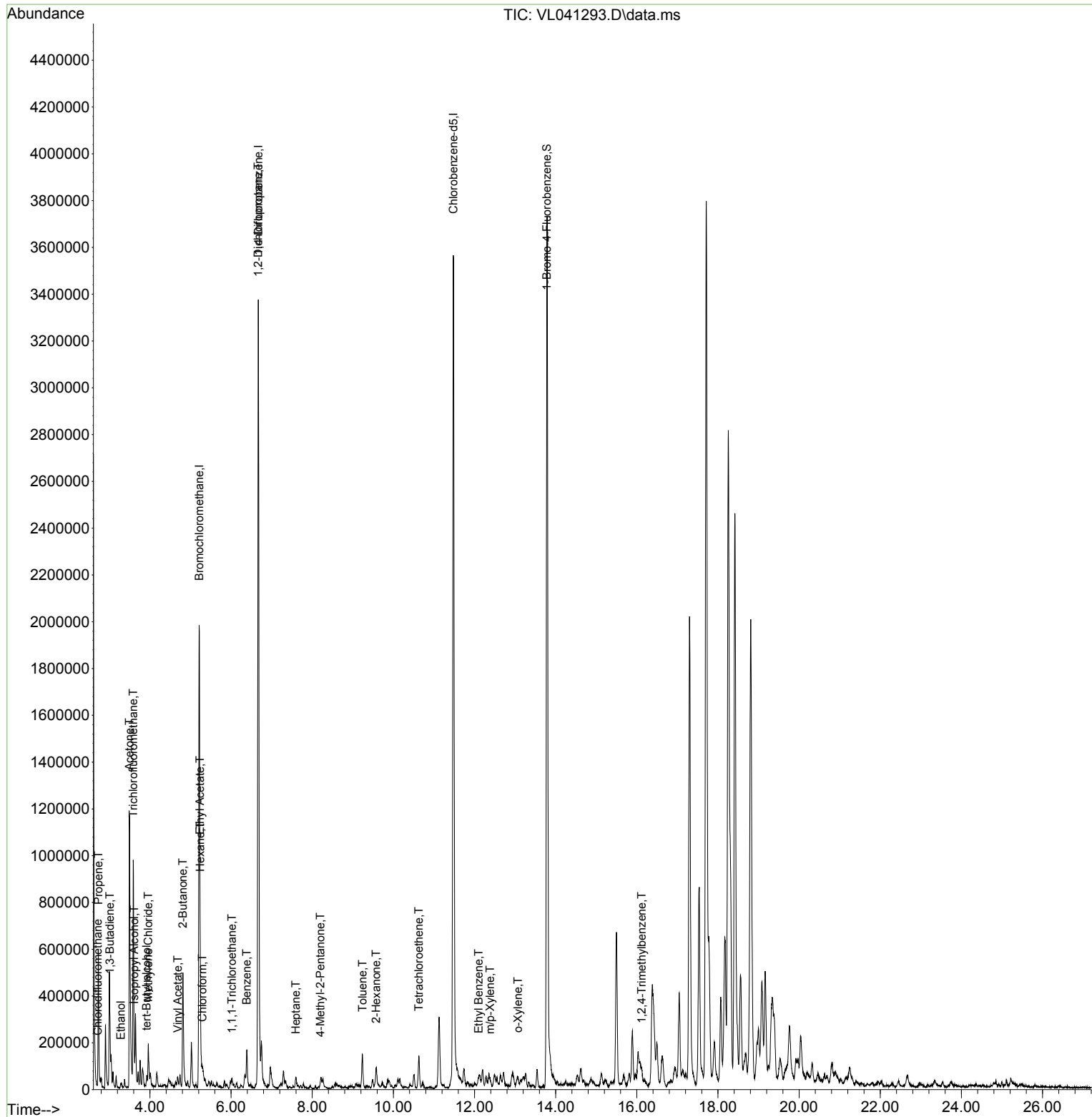
Internal Standards						
1) Bromochloromethane	5.214	49	992977	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2593477	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2368418	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1876457	10.495	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.709	51	6010	0.040	ppbv	99
9) Propene	2.729	41	245155	4.154	ppbv	96
10) Heptane	7.594	43	19266	0.135	ppbv	89
11) Trichlorofluoromethane	3.590	101	591476	4.333	ppbv	99
13) Ethanol	3.282	45	17417	1.316	ppbv	99
15) Acetone	3.494	43	1306169	11.146	ppbv	100
16) 1,3-Butadiene	3.015	39	62043	1.049	ppbv #	65
17) tert-Butyl alcohol	3.922	59	11877	0.094	ppbv #	82
19) Isopropyl Alcohol	3.613	45	42162	0.548	ppbv #	41
20) Methylene Chloride	3.957	84	51429	1.262	ppbv	95
23) Vinyl Acetate	4.687	43	10019	0.078	ppbv #	44
25) Ethyl Acetate	5.234	43	82757	0.354	ppbv #	78
26) Hexane	5.237	57	120321	1.153	ppbv #	41
29) Chloroform	5.291	83	11955	0.083	ppbv	90
32) 1,1,1-Trichloroethane	6.021	97	12571	0.087	ppbv #	41
34) 2-Butanone	4.812	43	580294	4.396	ppbv	97
36) Benzene	6.388	78	124831	0.574	ppbv	96
39) 1,2-Dichloropropane	6.668	63	648276	7.729	ppbv #	24
50) 4-Methyl-2-Pentanone	8.201	43	11307	0.048	ppbv #	40
51) 2-Hexanone	9.574	43	45301	0.258	ppbv #	29
52) Tetrachloroethene	10.629	164	12289	0.161	ppbv #	89
53) Toluene	9.240	91	100398	0.398	ppbv	94
58) Ethyl Benzene	12.101	91	21511	0.066	ppbv	98
59) m/p-Xylene	12.384	91	9267	0.034	ppbv #	31
60) o-Xylene	13.072	91	13516	0.053	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.121	105	23683	0.083	ppbv #	68

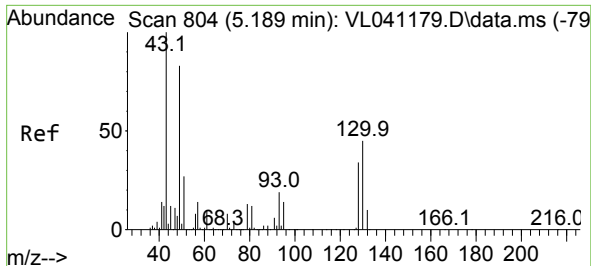
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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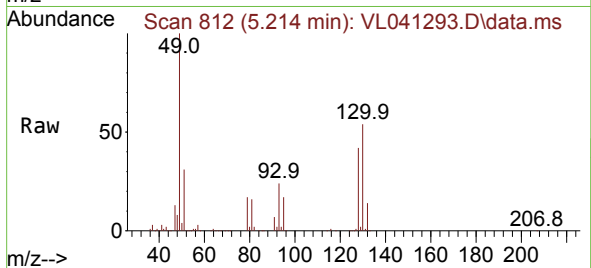
Quant Time: May 24 23:23:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 24 23:11:50 2024
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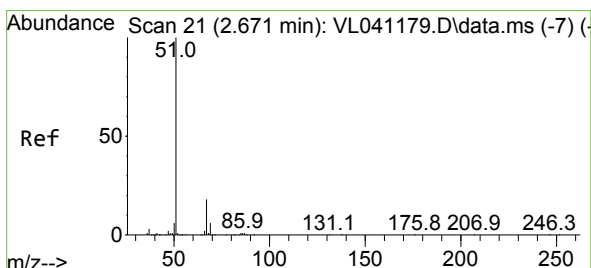
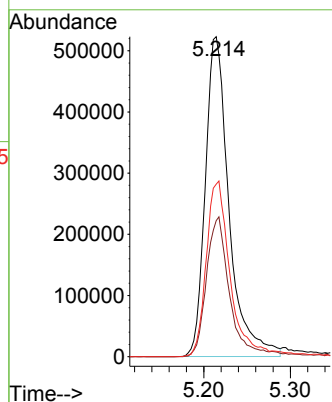
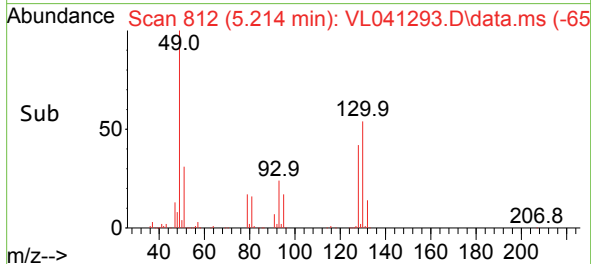


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

Instrument :
MSVOA_L
ClientSampleId :

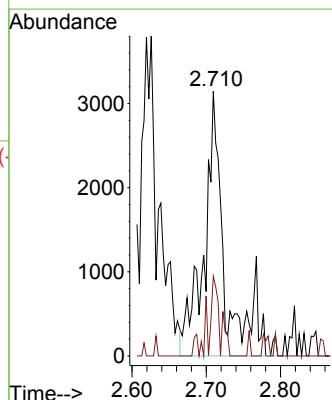
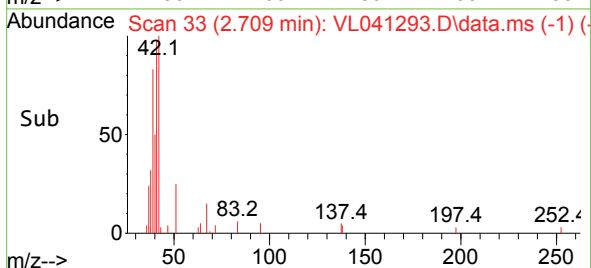
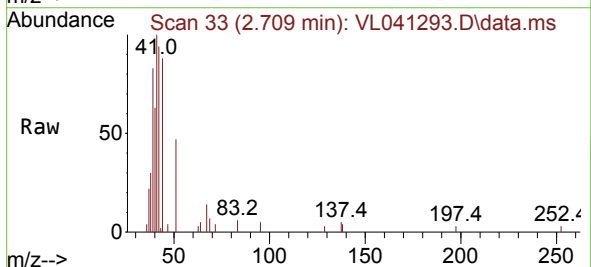


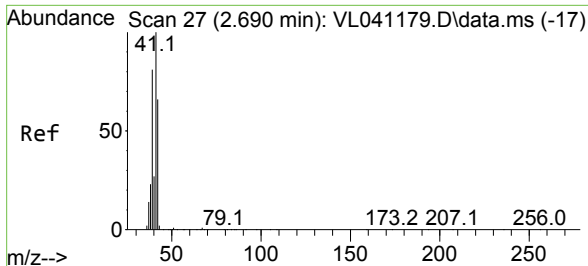
Tgt Ion: 49 Resp: 992977
Ion Ratio Lower Upper
49 100
128 44.2 21.5 64.5
130 57.0 27.2 81.6



#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 2.709 min Scan# 33
Delta R.T. 0.010 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

Tgt Ion: 51 Resp: 6010
Ion Ratio Lower Upper
51 100
67 16.9 14.0 21.0

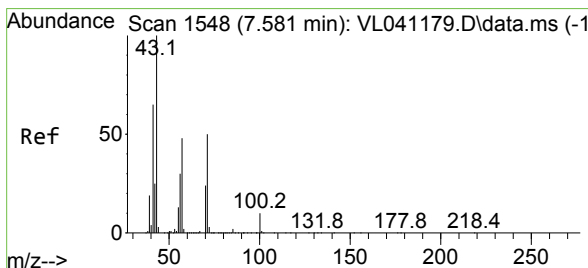
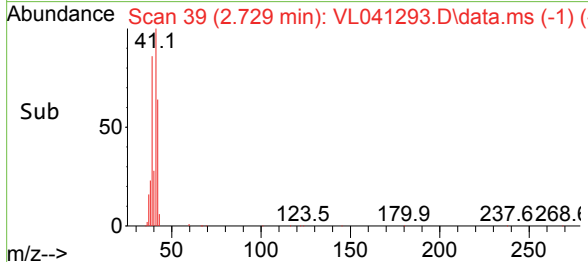
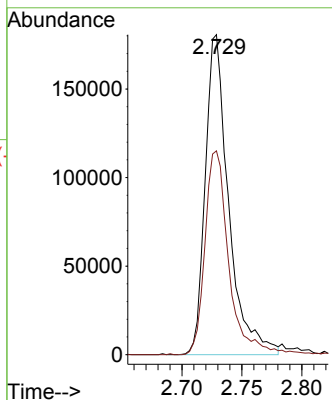
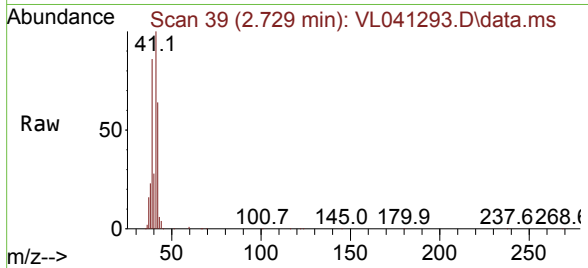




#9
 Propene
 Concen: 4.154 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.010 min
 Lab File: VL041293.D
 Acq: 24 May 2024 16:23

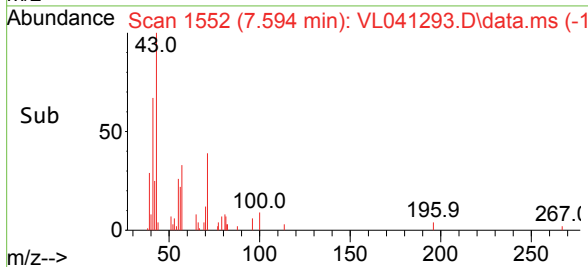
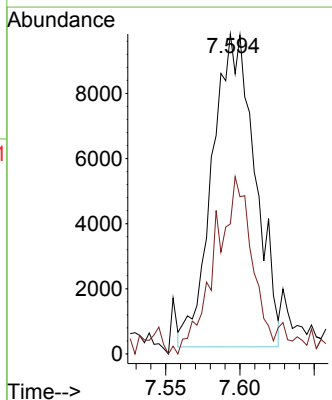
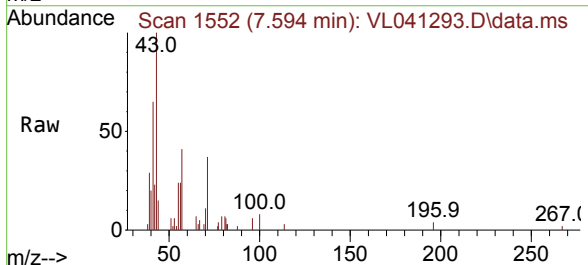
Instrument :
 MSVOA_L
 ClientSampleId :

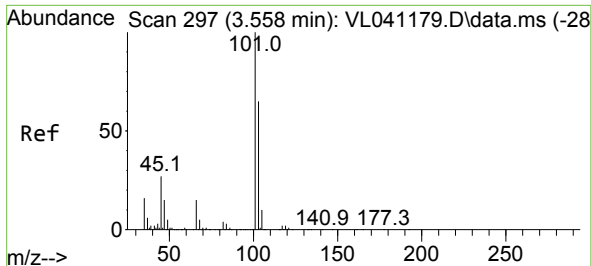
Tgt Ion: 41 Resp: 245155
 Ion Ratio Lower Upper
 41 100
 42 65.6 55.3 82.9



#10
 Heptane
 Concen: 0.135 ppbv
 RT: 7.594 min Scan# 1552
 Delta R.T. 0.003 min
 Lab File: VL041293.D
 Acq: 24 May 2024 16:23

Tgt Ion: 43 Resp: 19266
 Ion Ratio Lower Upper
 43 100
 57 55.8 38.7 58.1

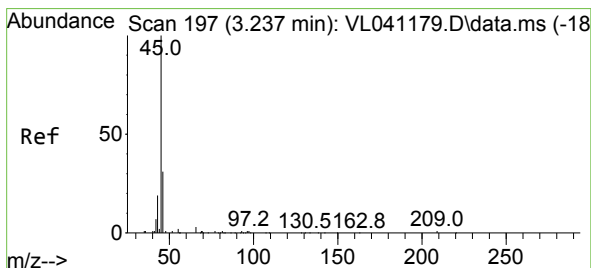
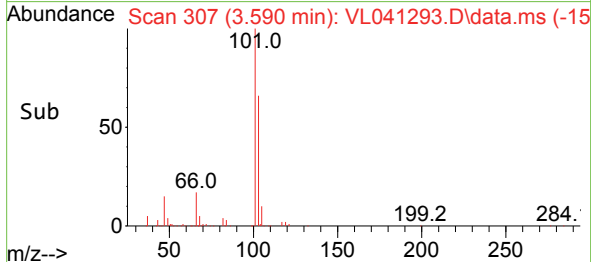
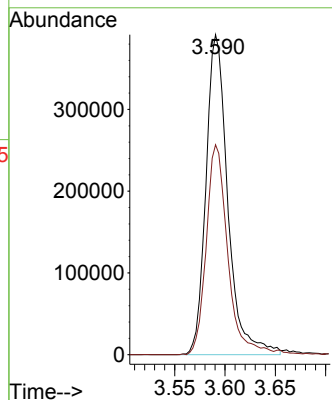
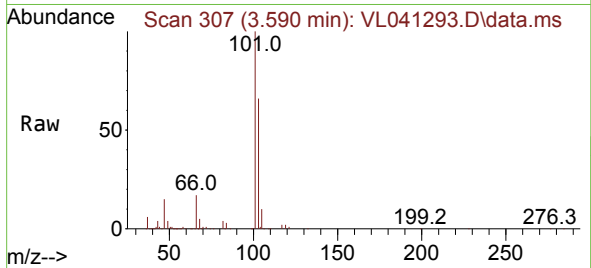




#11
 Trichlorofluoromethane
 Concen: 4.333 ppbv
 RT: 3.590 min Scan# 30
 Delta R.T. 0.006 min
 Lab File: VL041293.D
 Acq: 24 May 2024 16:23

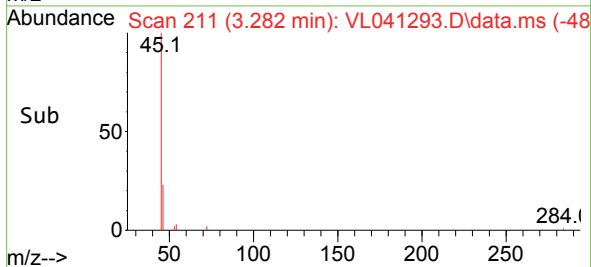
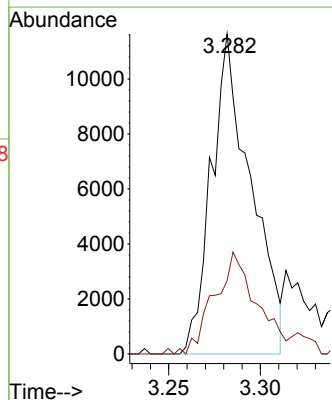
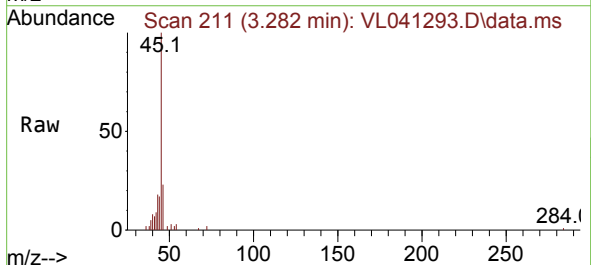
Instrument :
 MSVOA_L
 ClientSampleId :

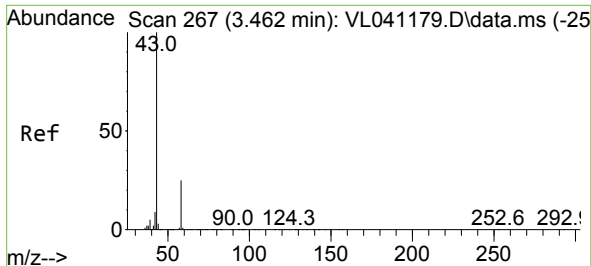
Tgt Ion:101 Resp: 591476
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.6 77.4



#13
 Ethanol
 Concen: 1.316 ppbv
 RT: 3.282 min Scan# 211
 Delta R.T. 0.022 min
 Lab File: VL041293.D
 Acq: 24 May 2024 16:23

Tgt Ion: 45 Resp: 17417
 Ion Ratio Lower Upper
 45 100
 46 37.7 14.8 59.0

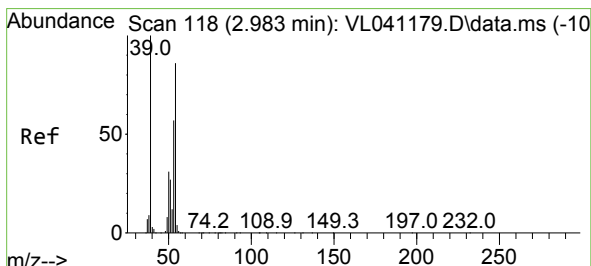
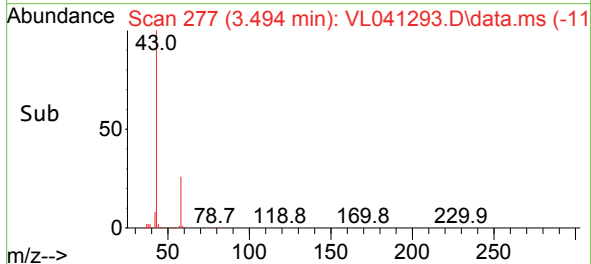
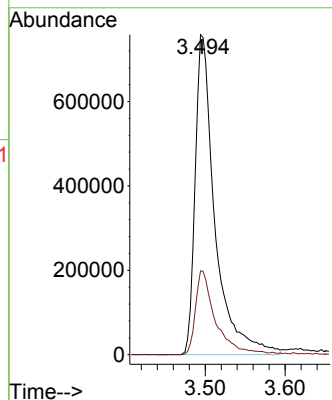
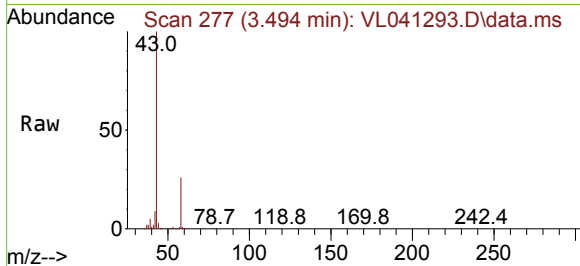




#15
Acetone
Concen: 11.146 ppbv
RT: 3.494 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

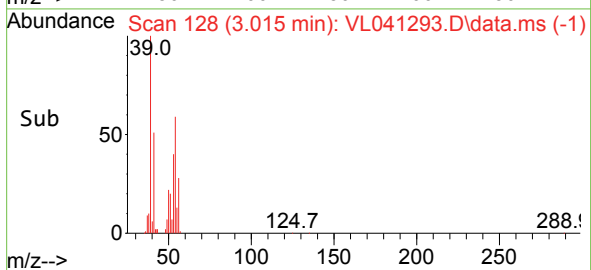
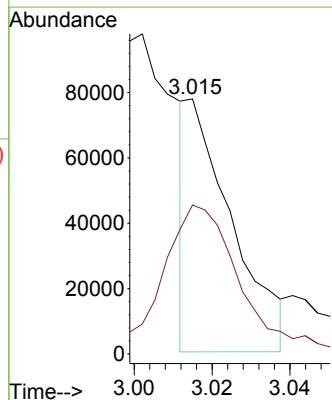
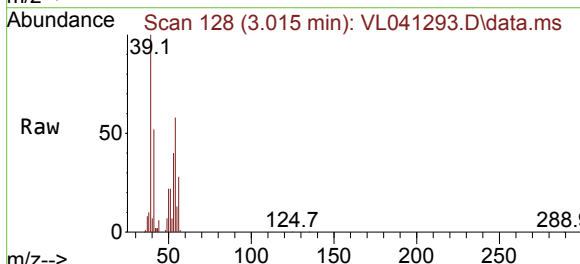
Instrument :
MSVOA_L
ClientSampleId :

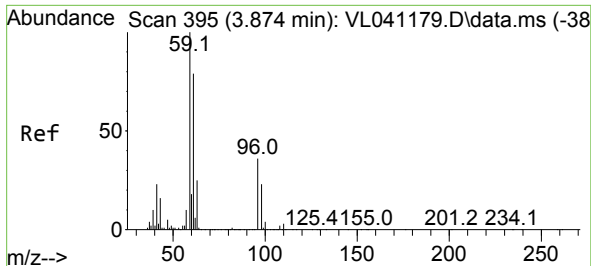
Tgt Ion: 43 Resp: 1306169
Ion Ratio Lower Upper
43 100
58 26.8 21.4 32.0



#16
1,3-Butadiene
Concen: 1.049 ppbv
RT: 3.015 min Scan# 128
Delta R.T. 0.006 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

Tgt Ion: 39 Resp: 62043
Ion Ratio Lower Upper
39 100
54 108.3 62.2 93.4#





#17

tert-Butyl alcohol

Concen: 0.094 ppbv

RT: 3.922 min Scan# 41

Delta R.T. 0.026 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

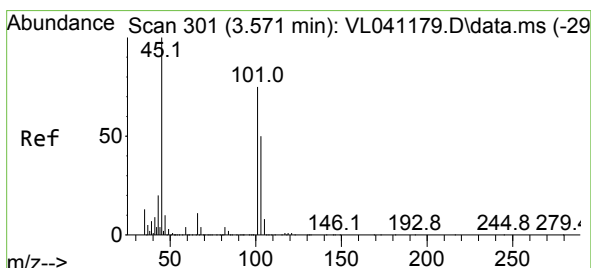
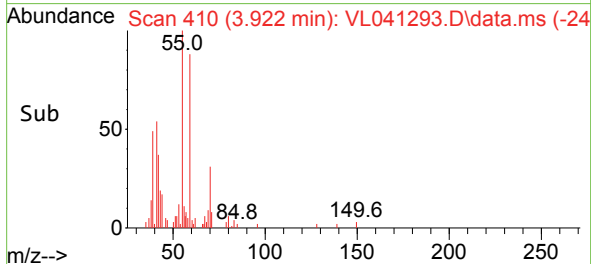
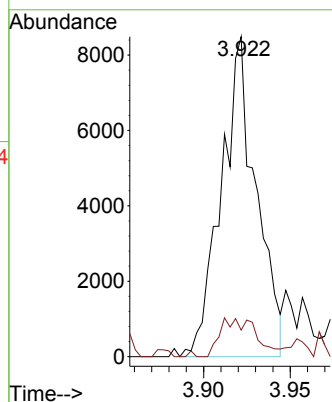
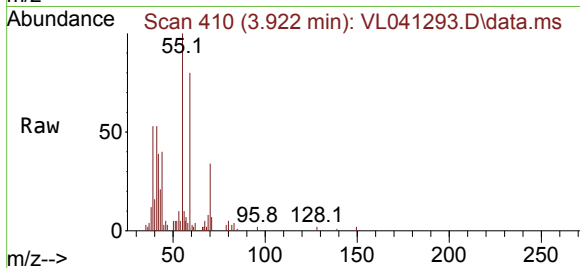
ClientSampleId :

Tgt Ion: 59 Resp: 11877

Ion Ratio Lower Upper

59 100

57 17.4 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 0.548 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.019 min

Lab File: VL041293.D

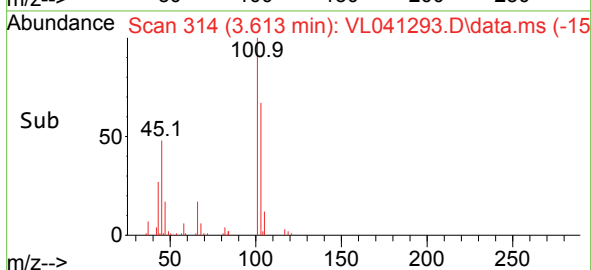
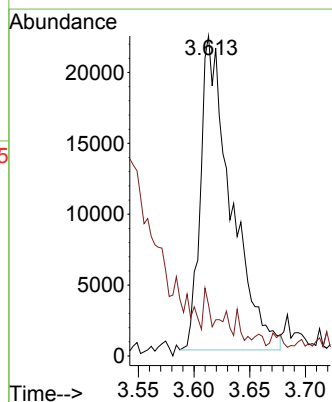
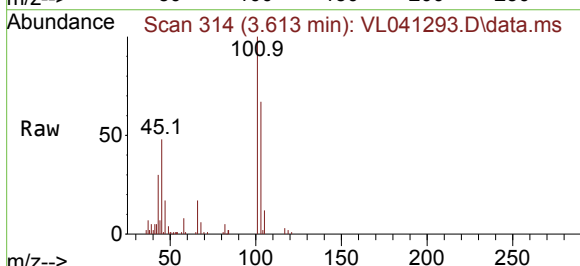
Acq: 24 May 2024 16:23

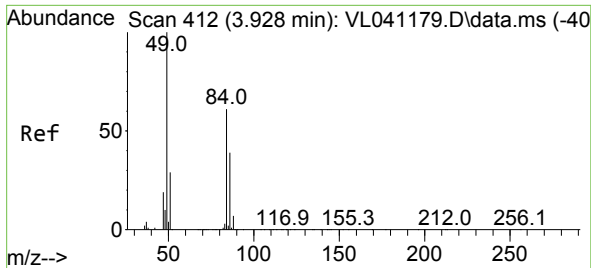
Tgt Ion: 45 Resp: 42162

Ion Ratio Lower Upper

45 100

58 0.0 26.8 40.2#





#20

Methylene Chloride

Concen: 1.262 ppbv

RT: 3.957 min Scan# 412

Delta R.T. 0.006 min

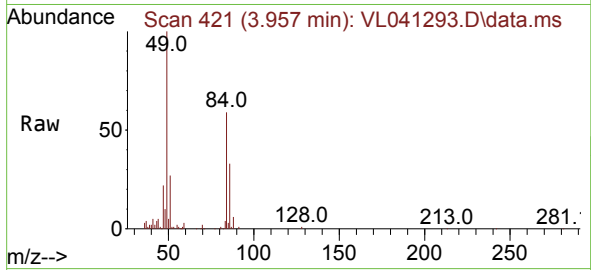
Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 51429

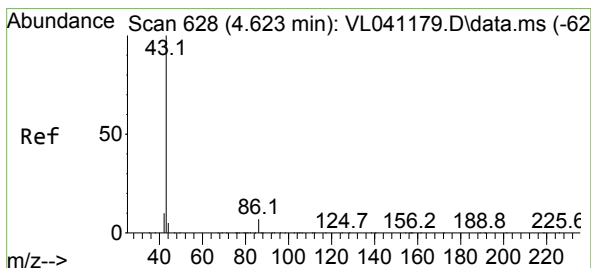
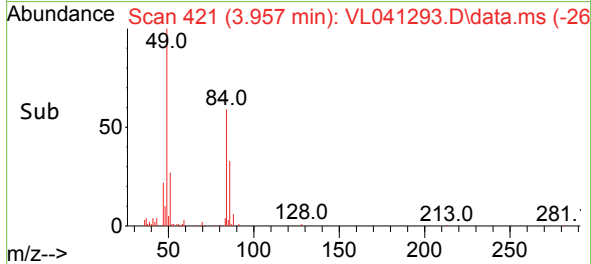
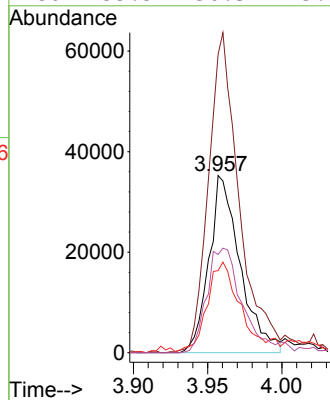
Ion Ratio Lower Upper

84 100

49 167.0 130.4 195.6

51 45.1 38.0 57.0

86 55.5 50.3 75.5



#23

Vinyl Acetate

Concen: 0.078 ppbv

RT: 4.687 min Scan# 648

Delta R.T. 0.045 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

Tgt Ion: 43 Resp: 10019

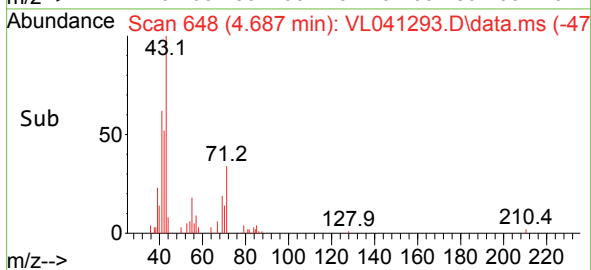
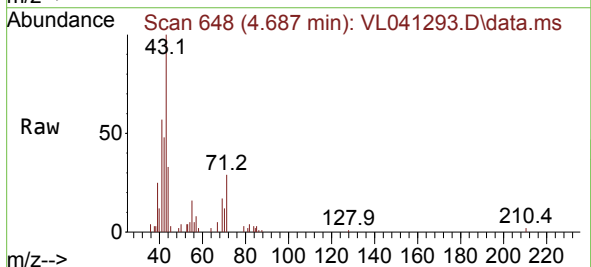
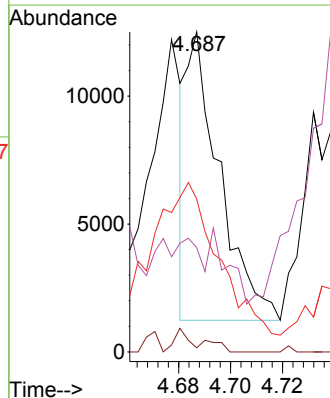
Ion Ratio Lower Upper

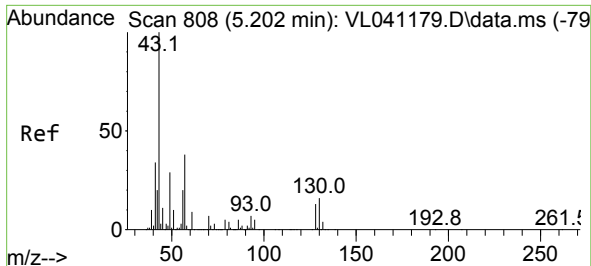
43 100

86 1.4 4.9 7.3#

42 47.2 8.0 12.0#

44 0.0 3.7 5.5#





#25

Ethyl Acetate

Concen: 0.354 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.016 min

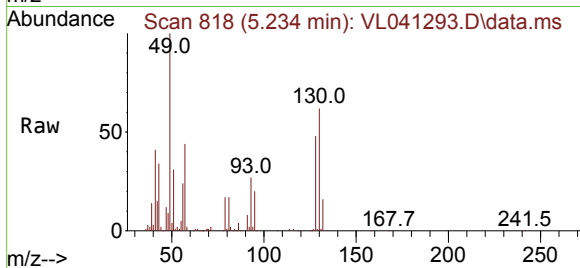
Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 82757

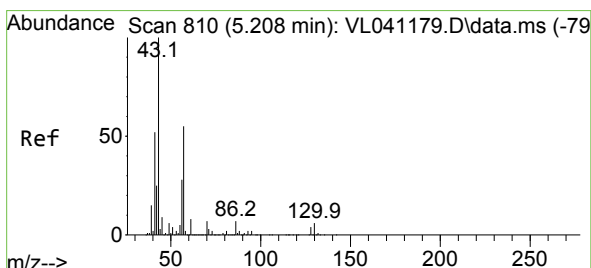
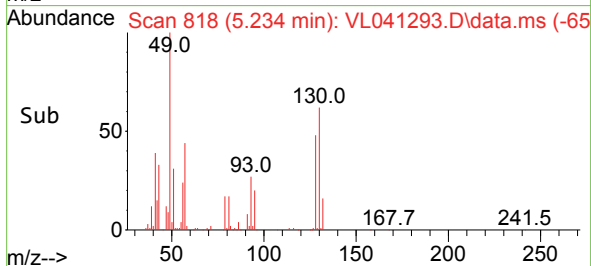
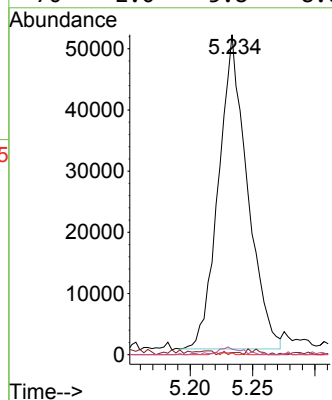
Ion Ratio Lower Upper

43 100

45 0.8 8.2 12.2#

61 0.4 7.7 11.5#

70 2.0 5.8 8.6#



#26

Hexane

Concen: 1.153 ppbv

RT: 5.237 min Scan# 819

Delta R.T. 0.010 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

Tgt Ion: 57 Resp: 120321

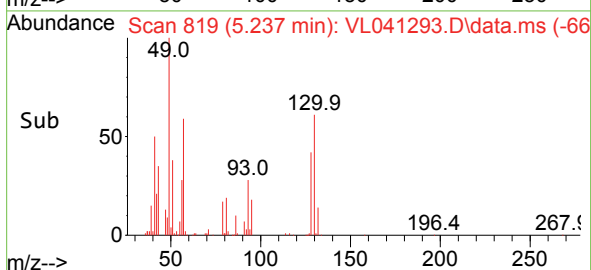
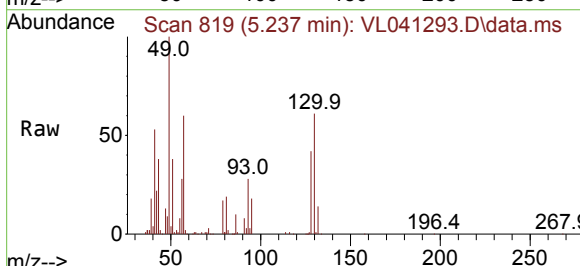
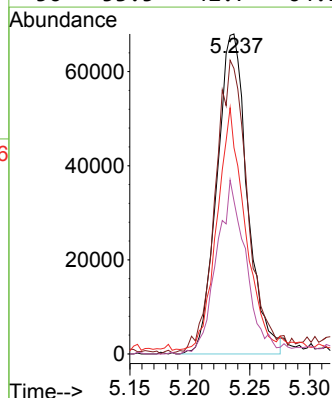
Ion Ratio Lower Upper

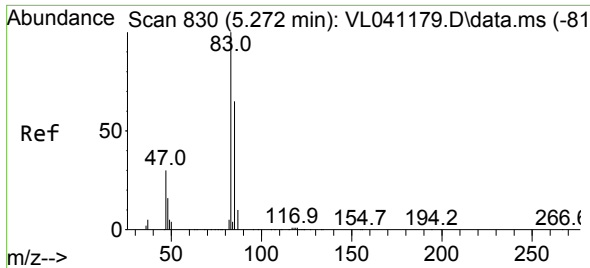
57 100

41 99.0 75.8 113.8

43 74.4 187.0 280.4#

56 53.5 42.7 64.1





#29

Chloroform

Concen: 0.083 ppbv

RT: 5.291 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

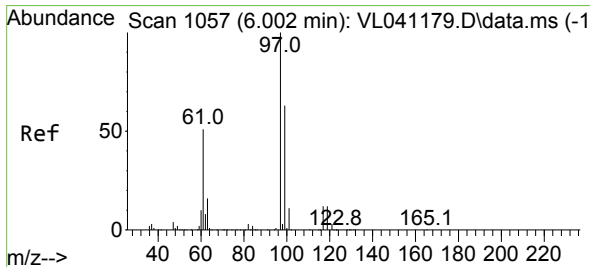
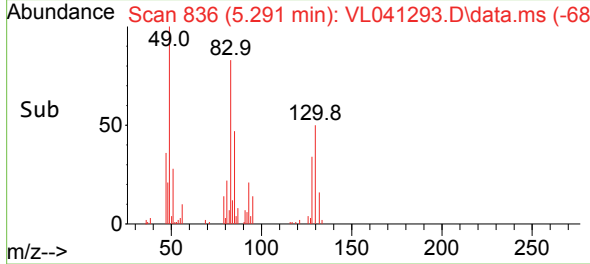
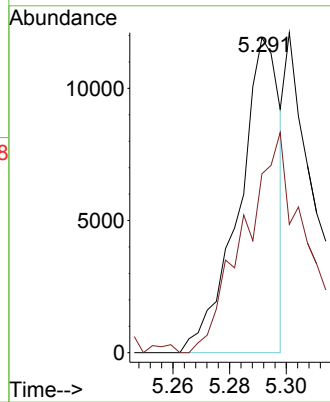
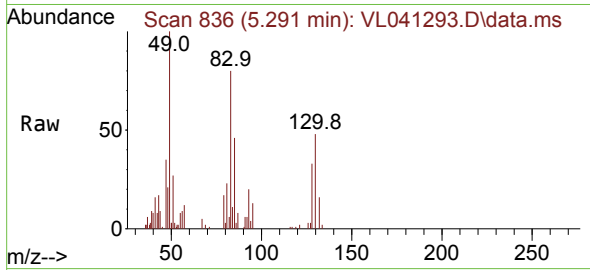
ClientSampleId :

Tgt Ion: 83 Resp: 11955

Ion Ratio Lower Upper

83 100

85 56.8 51.7 77.5



#32

1,1,1-Trichloroethane

Concen: 0.087 ppbv

RT: 6.021 min Scan# 1063

Delta R.T. 0.003 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

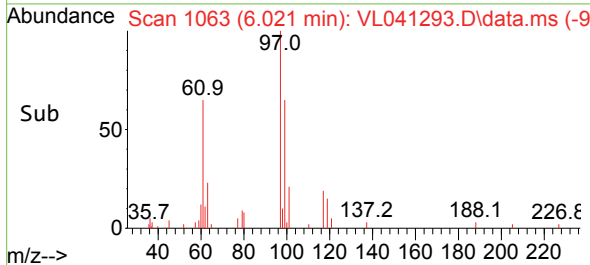
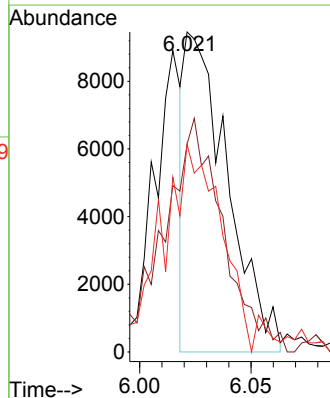
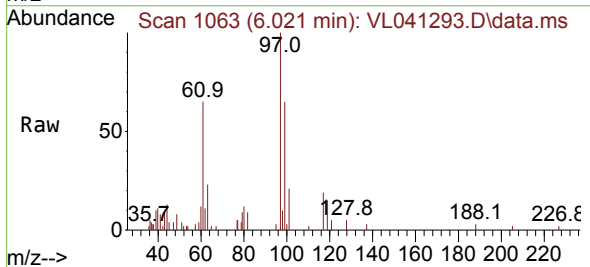
Tgt Ion: 97 Resp: 12571

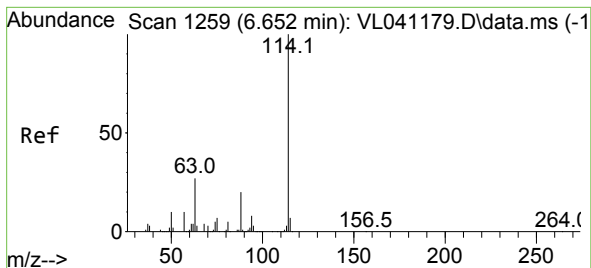
Ion Ratio Lower Upper

97 100

99 104.6 51.7 77.5#

61 98.9 41.1 61.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 1

Delta R.T. 0.003 min

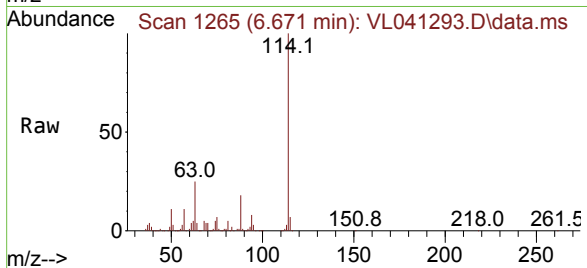
Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

ClientSampleId :



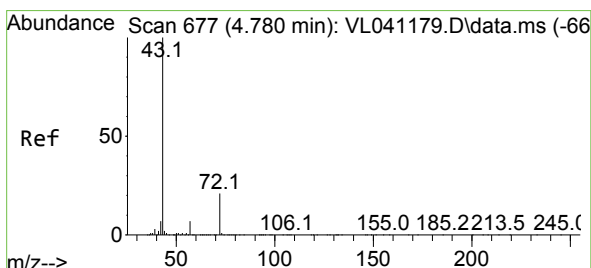
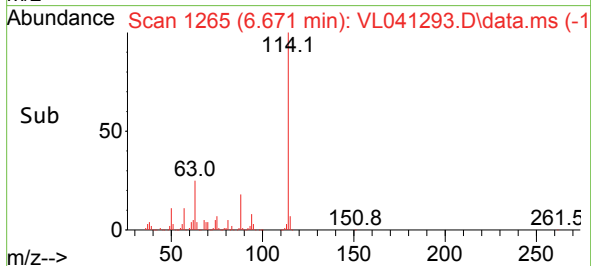
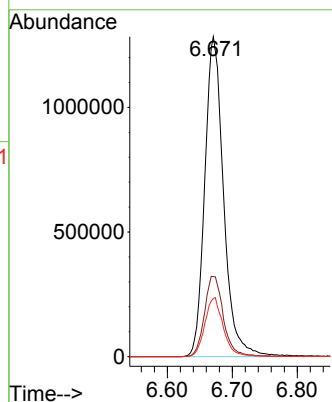
Tgt Ion:114 Resp: 2593477

Ion Ratio Lower Upper

114 100

63 25.5 21.8 32.6

88 18.2 15.2 22.8



#34

2-Butanone

Concen: 4.396 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.010 min

Lab File: VL041293.D

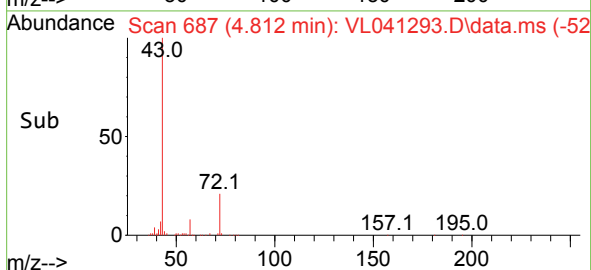
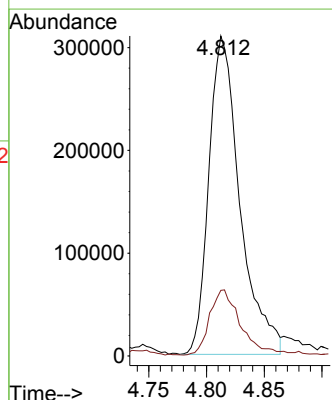
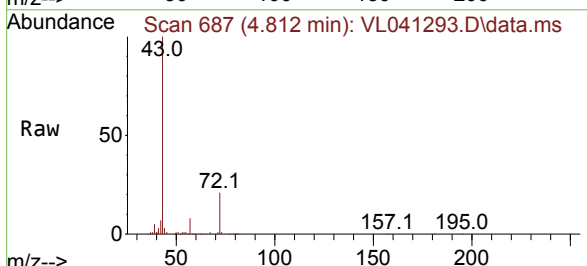
Acq: 24 May 2024 16:23

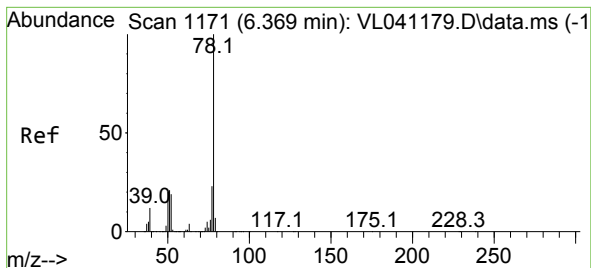
Tgt Ion: 43 Resp: 580294

Ion Ratio Lower Upper

43 100

72 23.0 17.3 25.9





#36

Benzene

Concen: 0.574 ppbv

RT: 6.388 min Scan# 1177

Delta R.T. 0.003 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

ClientSampleId :

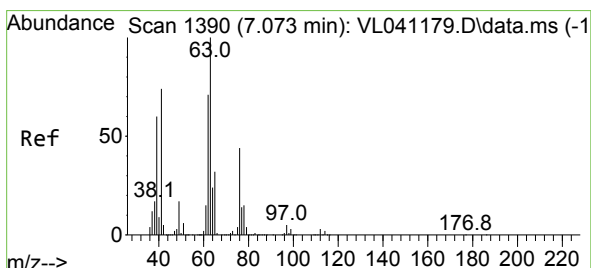
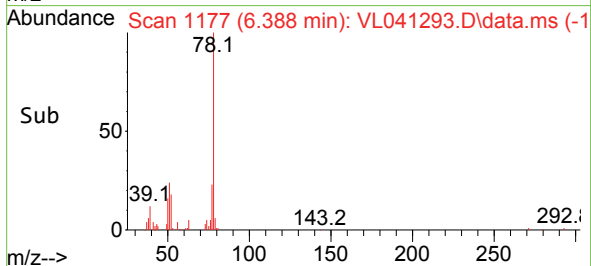
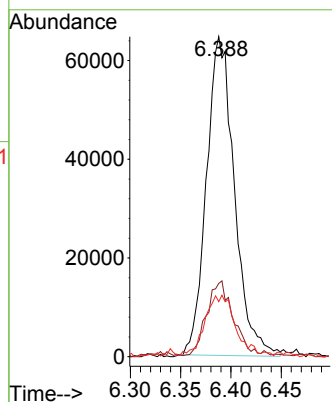
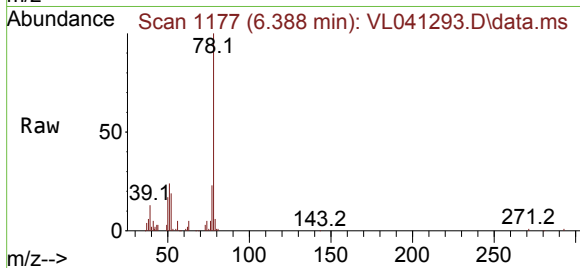
Tgt Ion: 78 Resp: 124831

Ion Ratio Lower Upper

78 100

77 22.5 18.3 27.5

50 16.8 15.9 23.9



#39

1,2-Dichloropropane

Concen: 7.729 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. -0.418 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

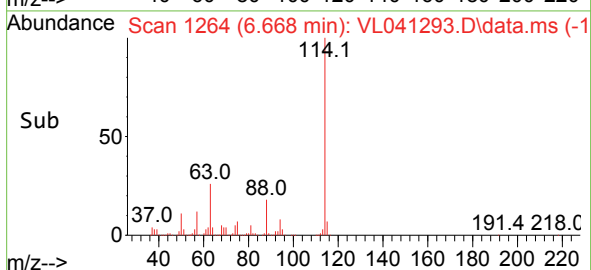
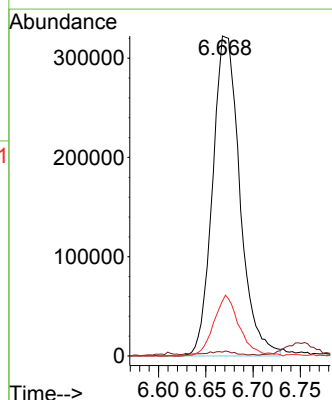
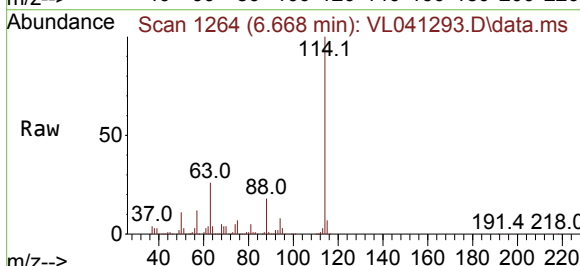
Tgt Ion: 63 Resp: 648276

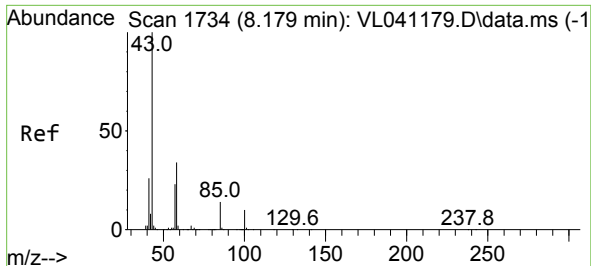
Ion Ratio Lower Upper

63 100

41 0.8 59.4 89.0#

62 17.2 56.8 85.2#

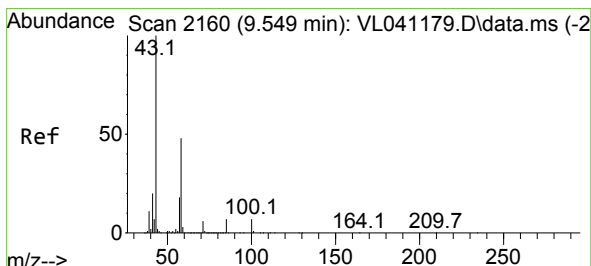
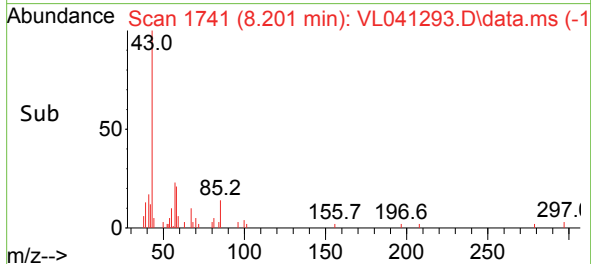
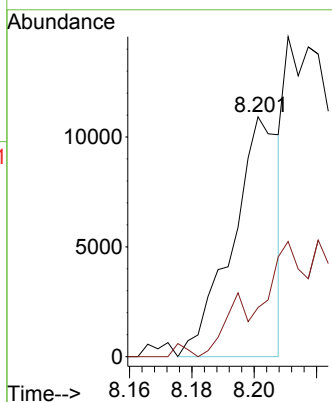
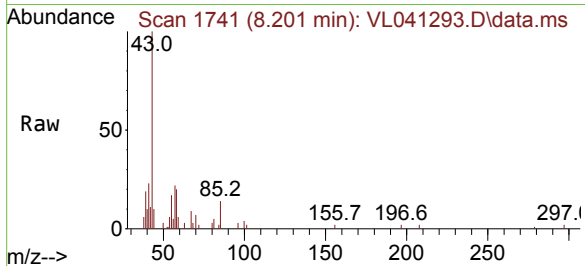




#50
4-Methyl-2-Pentanone
Concen: 0.048 ppbv
RT: 8.201 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

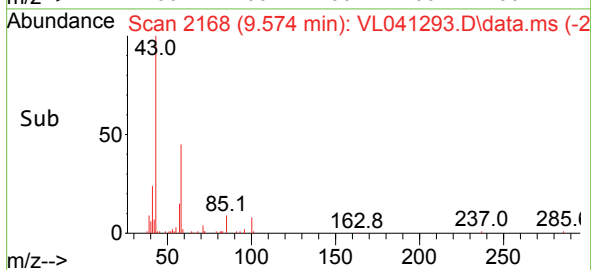
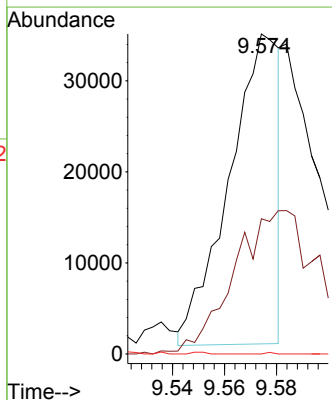
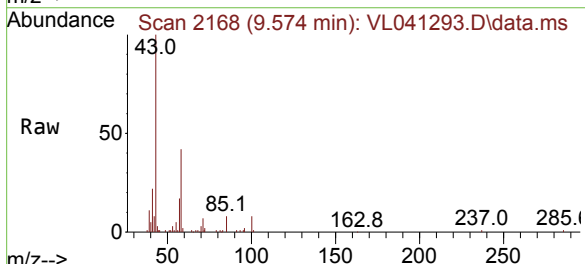
Instrument :
MSVOA_L
ClientSampleId :

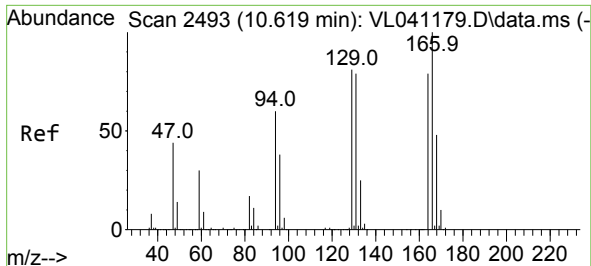
Tgt Ion: 43 Resp: 11307
Ion Ratio Lower Upper
43 100
58 0.0 27.7 41.5#



#51
2-Hexanone
Concen: 0.258 ppbv
RT: 9.574 min Scan# 2168
Delta R.T. 0.016 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

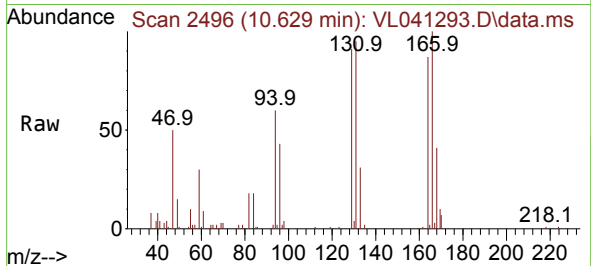
Tgt Ion: 43 Resp: 45301
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.0 0.0



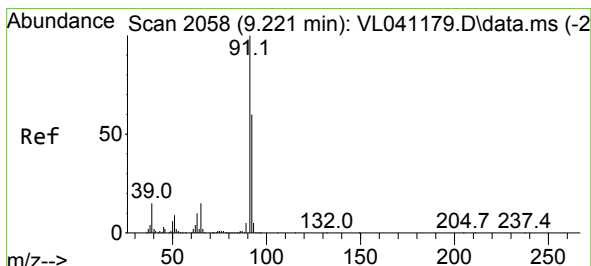
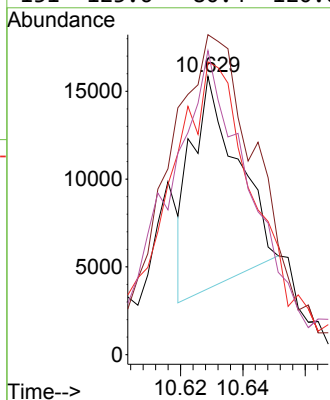
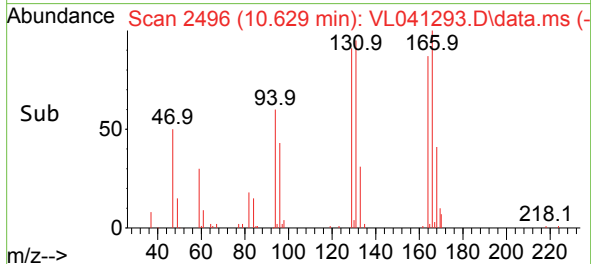


#52
Tetrachloroethene
Concen: 0.161 ppbv
RT: 10.629 min Scan# 2493
Delta R.T. 0.006 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

Instrument :
MSVOA_L
ClientSampleId :

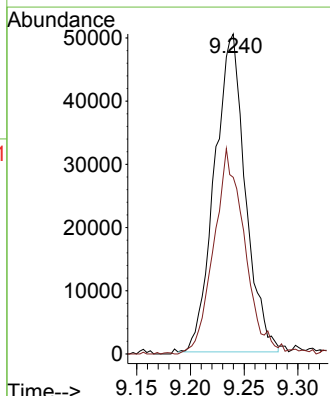
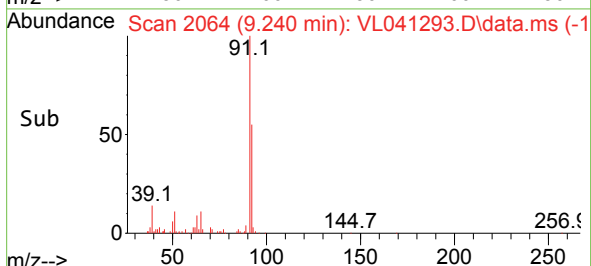
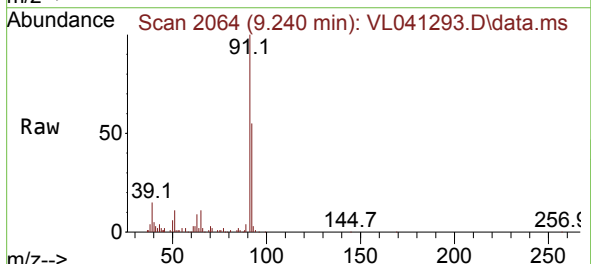


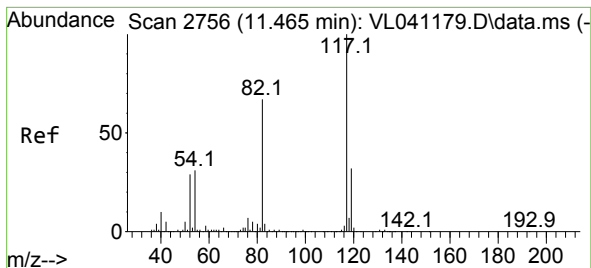
Tgt Ion:164 Resp: 12289
Ion Ratio Lower Upper
164 100
166 117.2 101.1 151.7
129 99.9 81.7 122.5
131 123.6 80.4 120.6#



#53
Toluene
Concen: 0.398 ppbv
RT: 9.240 min Scan# 2064
Delta R.T. 0.010 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

Tgt Ion: 91 Resp: 100398
Ion Ratio Lower Upper
91 100
92 65.1 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.481 min Scan# 21

Delta R.T. 0.010 min

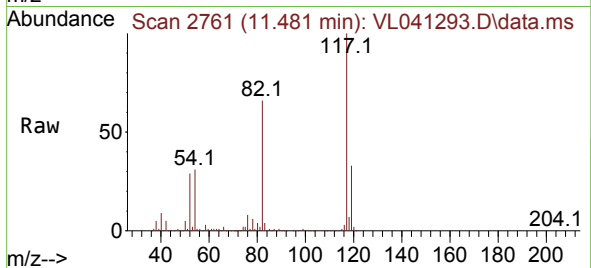
Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

ClientSampleId :



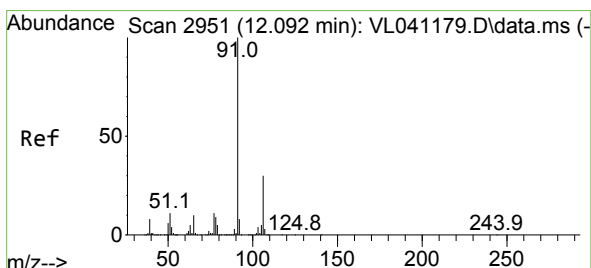
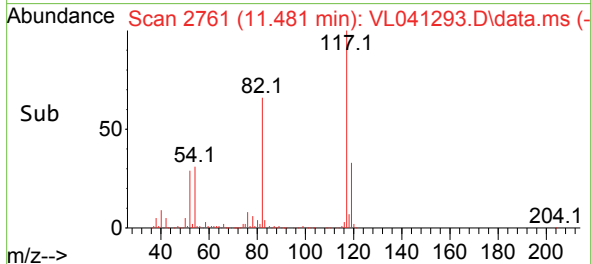
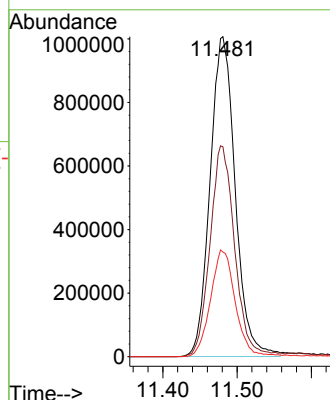
Tgt Ion:117 Resp: 2368418

Ion Ratio Lower Upper

117 100

82 64.9 53.6 80.4

119 33.1 27.2 40.8



#58

Ethyl Benzene

Concen: 0.066 ppbv

RT: 12.101 min Scan# 2954

Delta R.T. 0.006 min

Lab File: VL041293.D

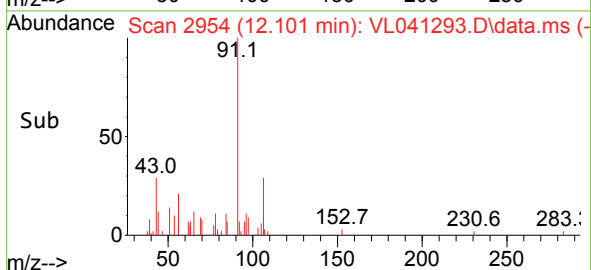
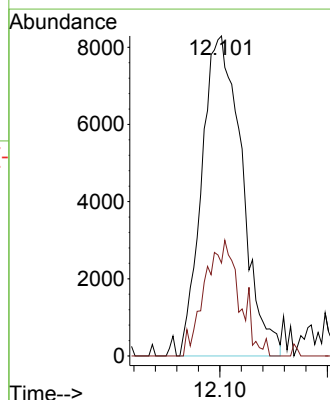
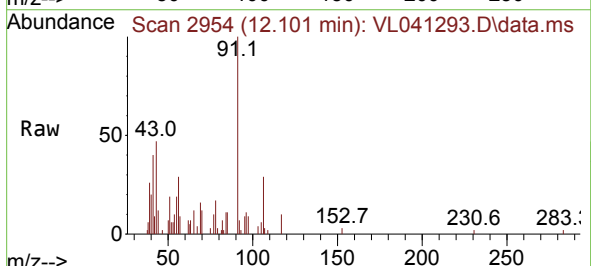
Acq: 24 May 2024 16:23

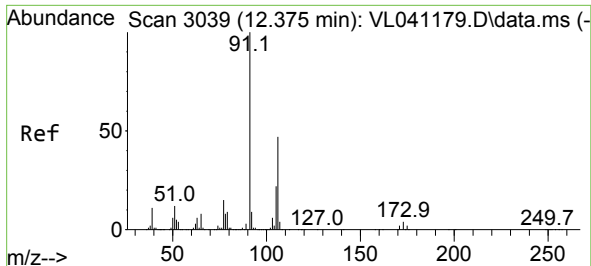
Tgt Ion: 91 Resp: 21511

Ion Ratio Lower Upper

91 100

106 29.0 24.3 36.5





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 12.384 min Scan# 3039

Delta R.T. 0.006 min

Lab File: VL041293.D

Acq: 24 May 2024 16:23

Instrument :

MSVOA_L

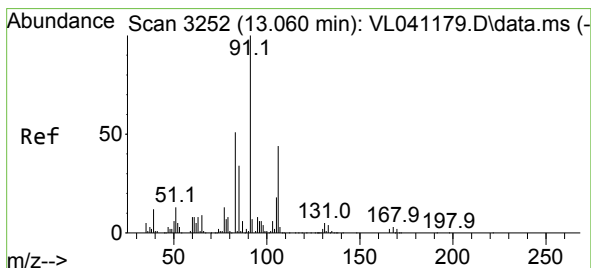
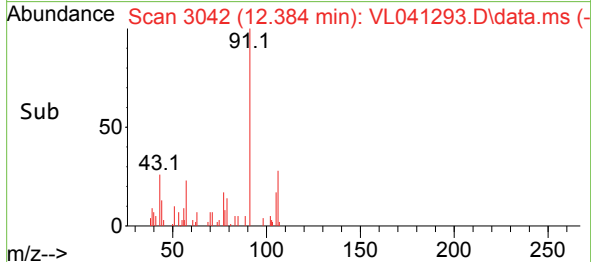
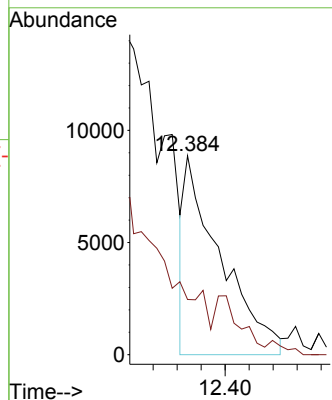
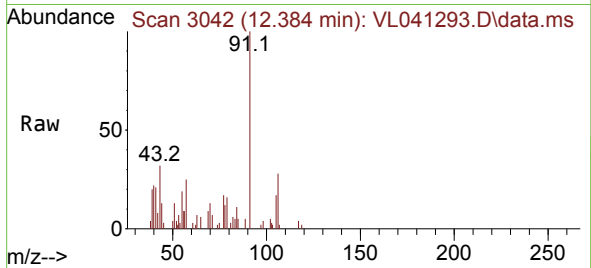
ClientSampleId :

Tgt Ion: 91 Resp: 9267

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.053 ppbv

RT: 13.072 min Scan# 3256

Delta R.T. 0.010 min

Lab File: VL041293.D

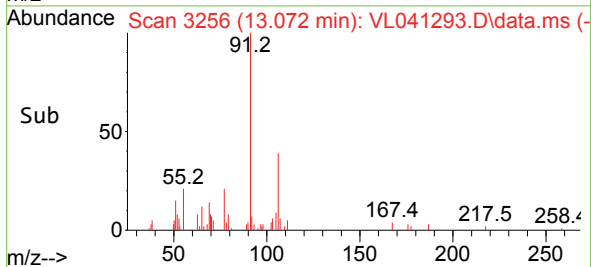
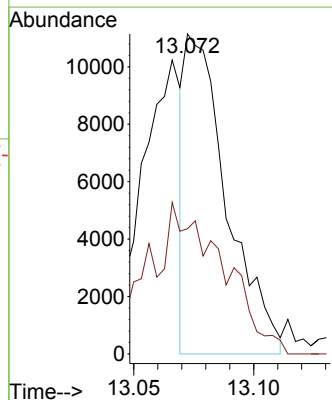
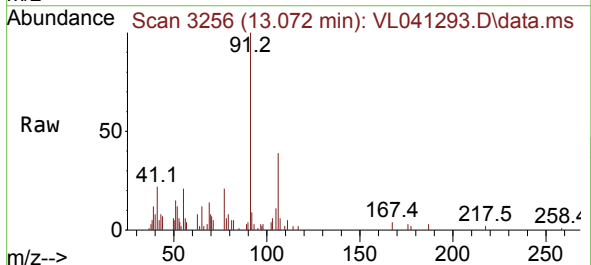
Acq: 24 May 2024 16:23

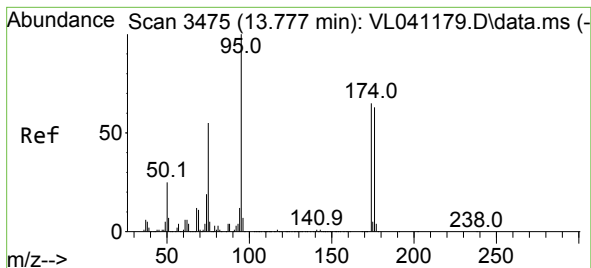
Tgt Ion: 91 Resp: 13516

Ion Ratio Lower Upper

91 100

106 0.0 22.4 67.3#

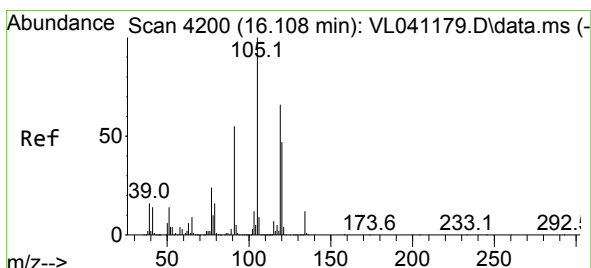
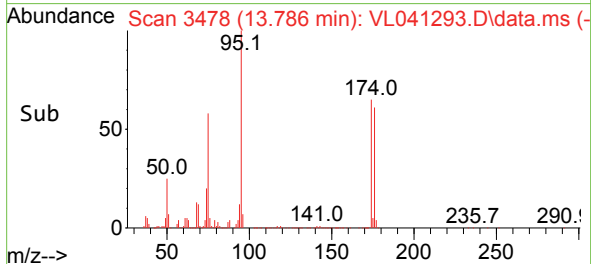
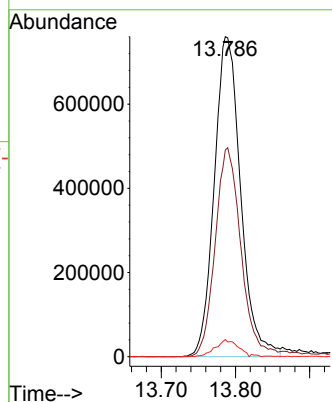
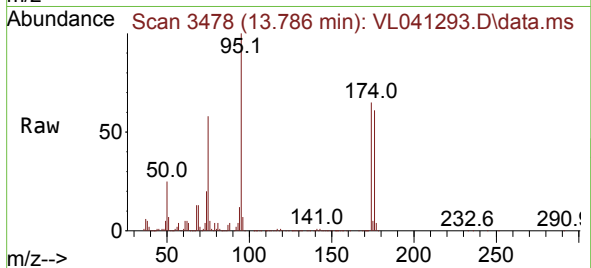




#68
1-Bromo-4-Fluorobenzene
Concen: 10.495 ppbv
RT: 13.786 min Scan# 3475
Delta R.T. 0.006 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1876457
Ion Ratio Lower Upper
95 100
174 66.4 53.6 80.4
175 4.8 4.2 6.4



#74
1,2,4-Trimethylbenzene
Concen: 0.083 ppbv
RT: 16.121 min Scan# 4204
Delta R.T. 0.010 min
Lab File: VL041293.D
Acq: 24 May 2024 16:23

Tgt Ion: 105 Resp: 23683
Ion Ratio Lower Upper
105 100
120 36.2 37.8 56.6#
91 21.1 44.3 66.5#
77 9.6 19.0 28.4#

