

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
 Data File : VL039942.D
 Acq On : 1 Dec 2022 15:05
 Operator : SY/MD
 Sample : N5824-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TPC-1A

Quant Time: Dec 02 05:32:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 05:29:35 2022
 Response via : Initial Calibration

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

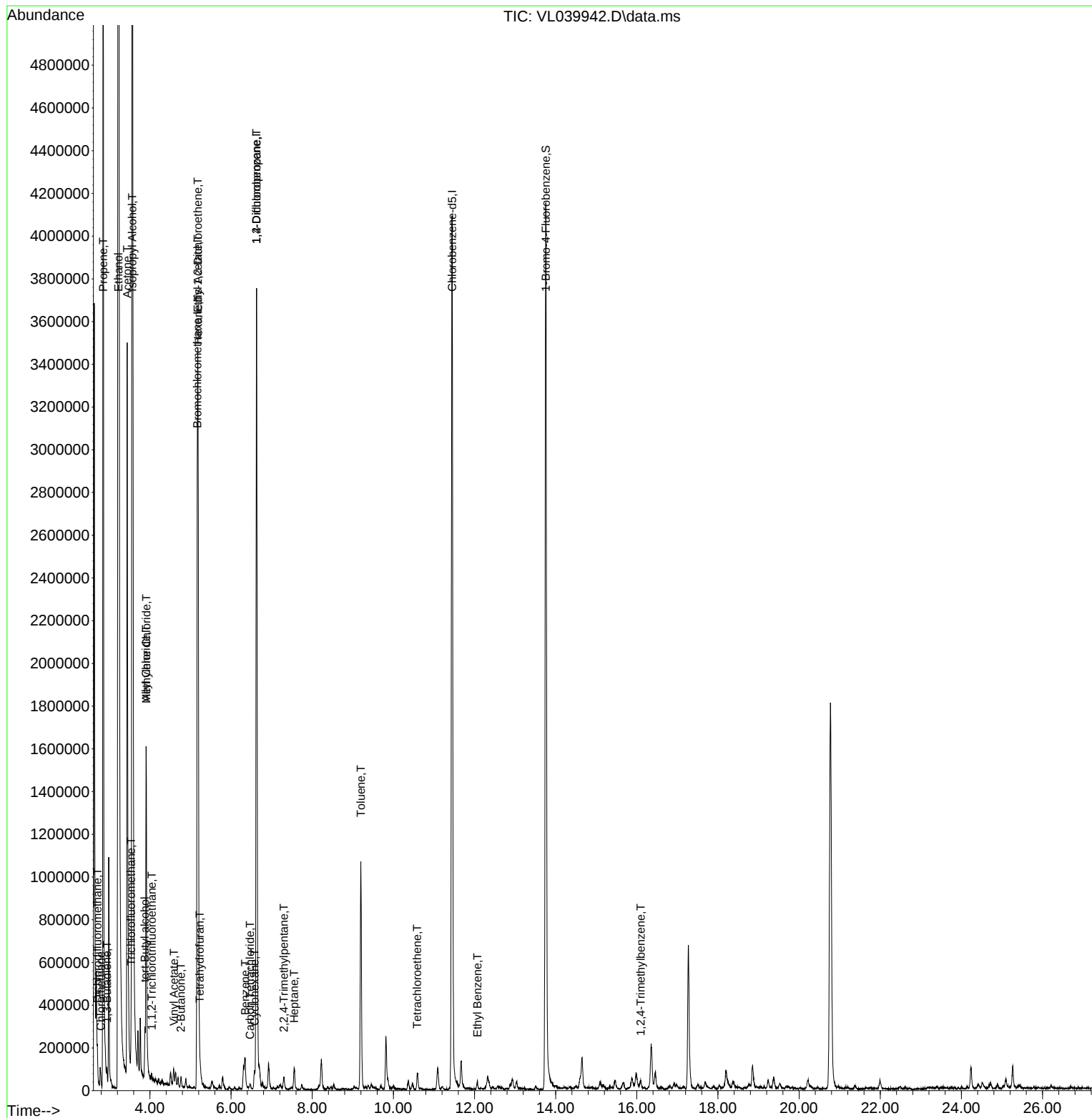
Internal Standards						
1) Bromochloromethane	5.166	49	1033205	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	2861146	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2687837	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	2156726	10.505	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.100%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.706	85	84020	0.568	ppbv	96
4) Chloromethane	2.790	50	37076	0.407	ppbv #	86
9) Propene	2.848	41	1935175	28.815	ppbv	94
10) Heptane	7.552	43	21192	0.131	ppbv #	27
11) Trichlorofluoromethane	3.536	101	98232	0.544	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.044	101	4862	0.036	ppbv #	8
13) Ethanol	3.227	45	12211332	2381.550	ppbv	92
15) Acetone	3.439	43	3435484	25.069	ppbv	100
16) 1,3-Butadiene	2.941	39	22672	0.332	ppbv #	23
17) tert-Butyl alcohol	3.877	59	56218	0.357	ppbv	97
19) Isopropyl Alcohol	3.565	45	9033521	121.746	ppbv #	30
20) Methylene Chloride	3.909	84	513734	7.738	ppbv	94
21) Allyl Chloride	3.906	41	17715	0.186	ppbv #	19
23) Vinyl Acetate	4.591	43	43873	0.779	ppbv #	43
25) Ethyl Acetate	5.182	43	1170673	4.653	ppbv #	91
26) Hexane	5.185	57	923153	8.399	ppbv #	60
30) Cyclohexane	6.578	84	4468	0.041	ppbv #	1
31) cis-1,2-Dichloroethene	5.179	61	71768	0.707	ppbv #	26
34) 2-Butanone	4.767	43	49190	0.359	ppbv	94
35) Carbon Tetrachloride	6.465	117	6875	0.042	ppbv	97
36) Benzene	6.349	78	40601	0.167	ppbv	96
39) 1,2-Dichloropropane	6.629	63	705244	7.443	ppbv #	26
41) Tetrahydrofuran	5.227	42	7224	0.076	ppbv #	36
44) 2,2,4-Trimethylpentane	7.304	57	20626	0.051	ppbv #	17
52) Tetrachloroethene	10.587	164	9820	0.108	ppbv	91
53) Toluene	9.198	91	832968	3.007	ppbv	99
58) Ethyl Benzene	12.073	91	21841	0.060	ppbv	94
74) 1,2,4-Trimethylbenzene	16.095	105	11320	0.036	ppbv #	67

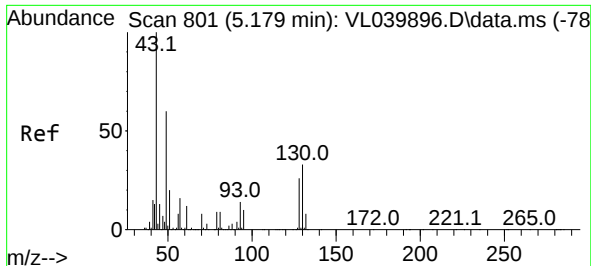
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
Data File : VL039942.D
Acq On : 1 Dec 2022 15:05
Operator : SY/MD
Sample : N5824-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

Quant Time: Dec 02 05:32:36 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Dec 02 05:29:35 2022
Response via : Initial Calibration

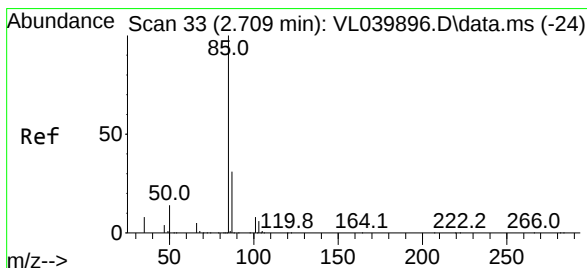
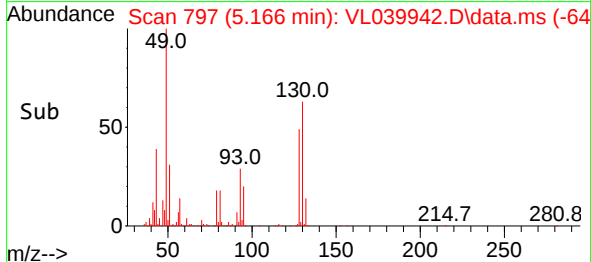
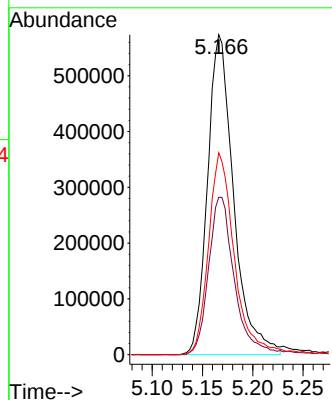
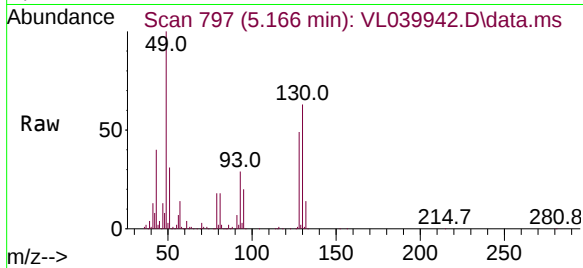




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.166 min Scan# 79
Delta R.T. -0.007 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

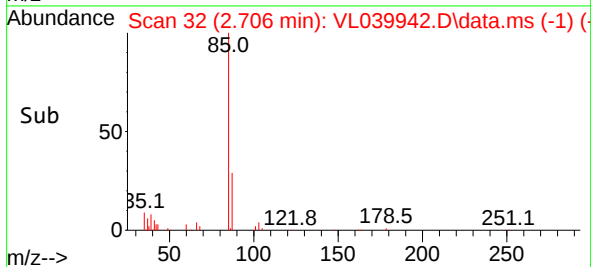
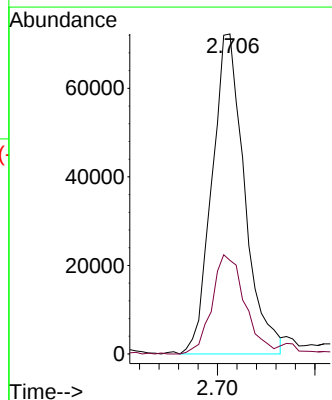
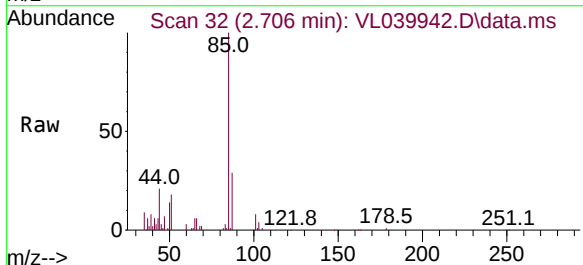
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

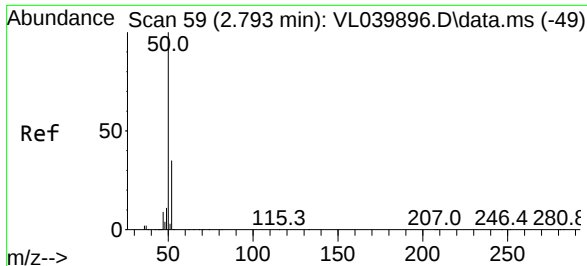
Tgt Ion: 49 Resp: 1033205
Ion Ratio Lower Upper
49 100
128 49.9 22.1 66.3
130 63.7 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.568 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.003 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 85 Resp: 84020
Ion Ratio Lower Upper
85 100
87 29.2 25.0 37.4

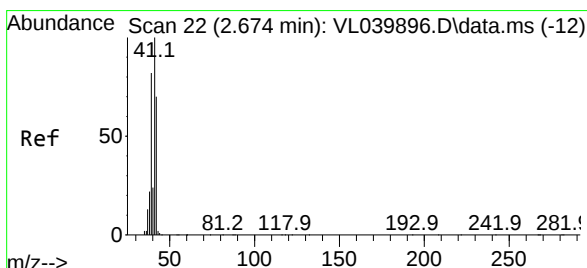
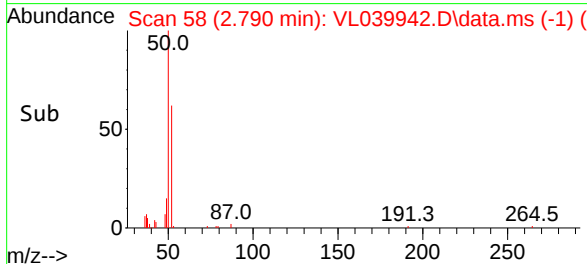
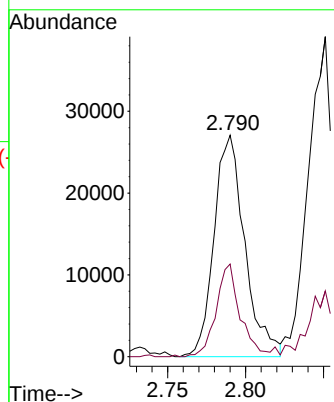
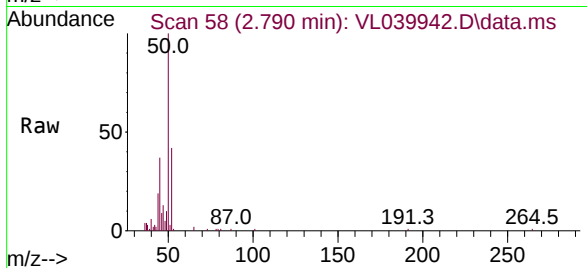




#4
Chloromethane
Concen: 0.407 ppbv
RT: 2.790 min Scan# 59
Delta R.T. 0.000 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

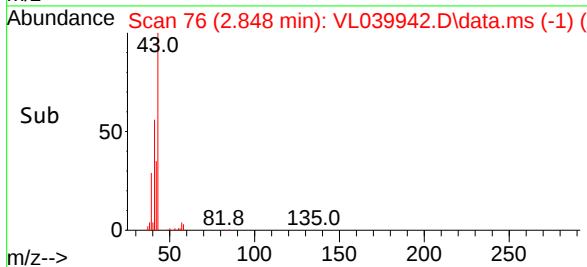
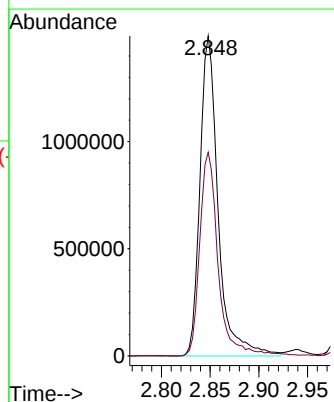
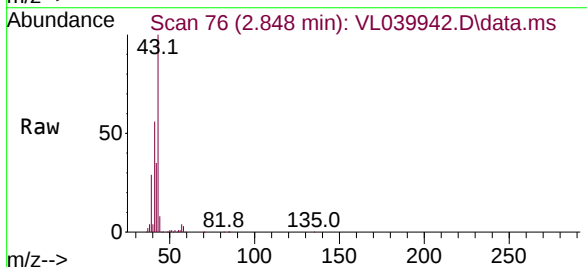
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

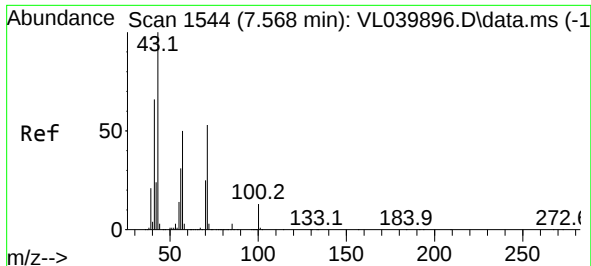
Tgt Ion: 50 Resp: 37076
Ion Ratio Lower Upper
50 100
52 42.8 27.8 41.8#



#9
Propene
Concen: 28.815 ppbv
RT: 2.848 min Scan# 76
Delta R.T. 0.177 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 41 Resp: 1935175
Ion Ratio Lower Upper
41 100
42 64.7 55.8 83.6

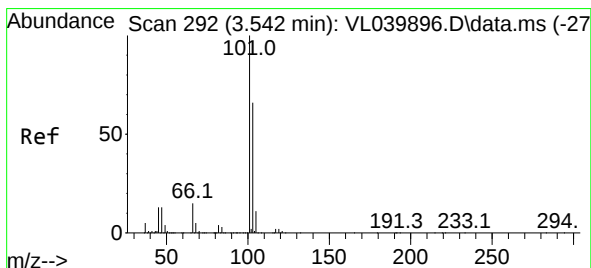
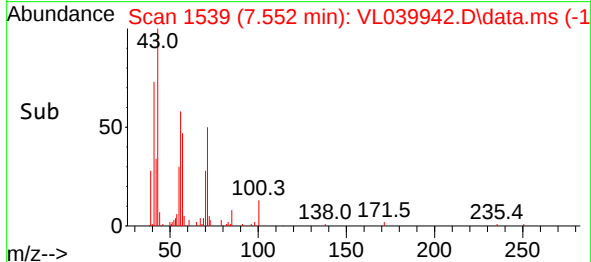
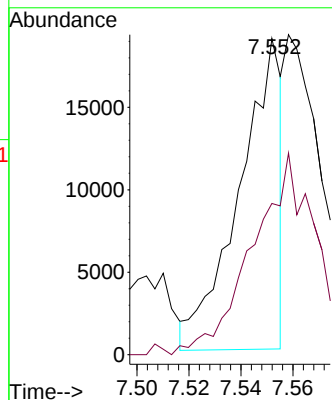
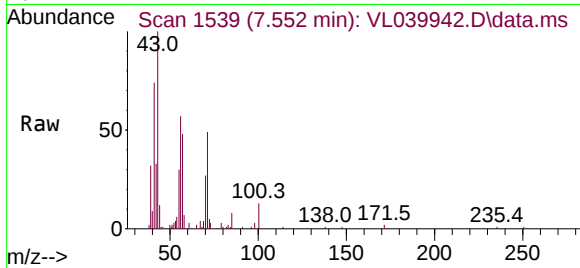




#10
Heptane
Concen: 0.131 ppbv
RT: 7.552 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

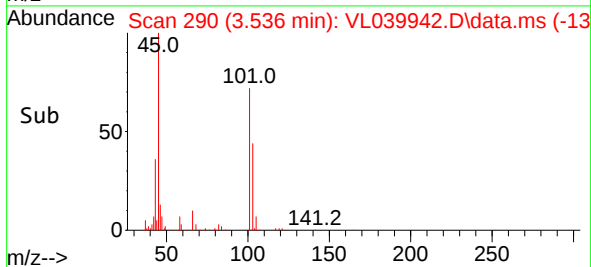
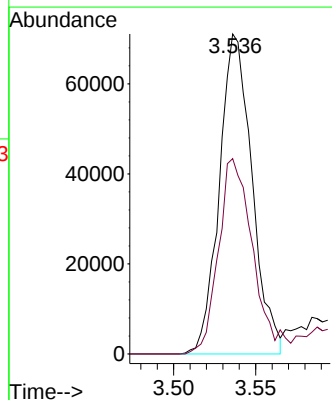
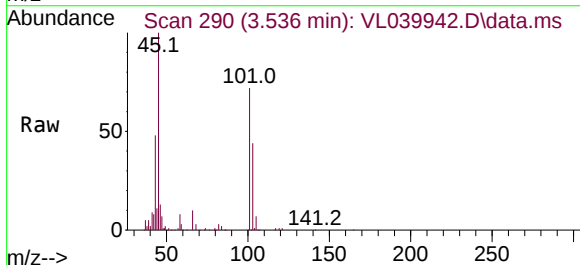
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

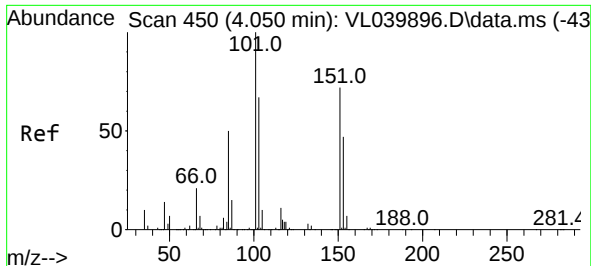
Tgt Ion: 43 Resp: 21192
Ion Ratio Lower Upper
43 100
57 0.0 40.7 61.1#



#11
Trichlorofluoromethane
Concen: 0.544 ppbv
RT: 3.536 min Scan# 290
Delta R.T. -0.006 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion:101 Resp: 98232
Ion Ratio Lower Upper
101 100
103 61.1 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.044 min Scan# 448

Delta R.T. -0.003 min

Lab File: VL039942.D

Acq: 1 Dec 2022 15:05

Instrument :

MSVOA_L

ClientSampleId :

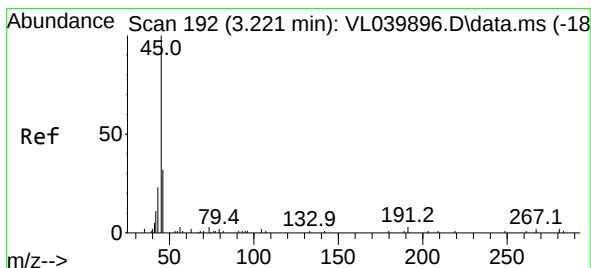
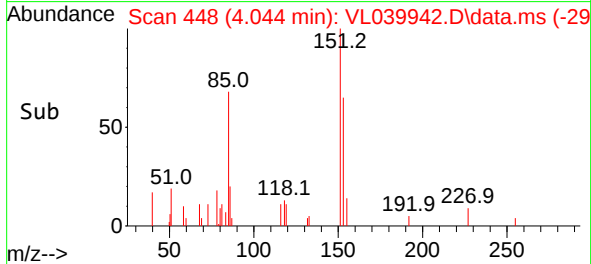
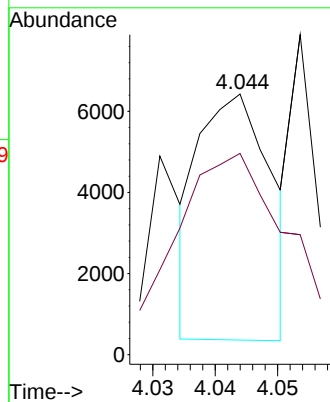
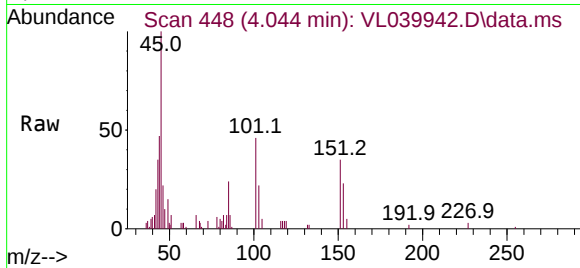
TPC-1A

Tgt Ion:101 Resp: 4862

Ion Ratio Lower Upper

101 100

151 152.5 59.6 89.4#



#13

Ethanol

Concen: 2381.550 ppbv

RT: 3.227 min Scan# 194

Delta R.T. 0.000 min

Lab File: VL039942.D

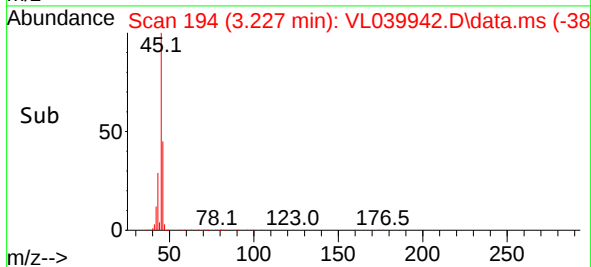
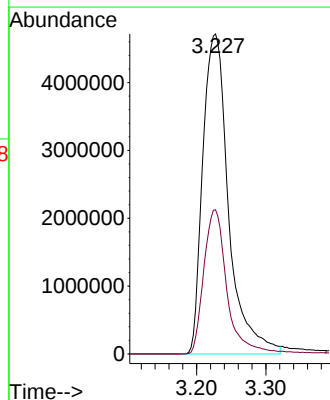
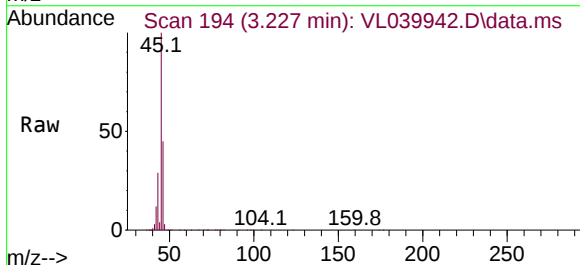
Acq: 1 Dec 2022 15:05

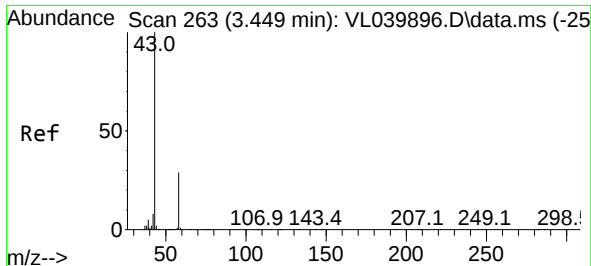
Tgt Ion: 45 Resp:12211332

Ion Ratio Lower Upper

45 100

46 41.2 14.6 58.2





#15

Acetone

Concen: 25.069 ppbv

RT: 3.439 min Scan# 2

Delta R.T. -0.006 min

Lab File: VL039942.D

Acq: 1 Dec 2022 15:05

Instrument :

MSVOA_L

ClientSampleId :

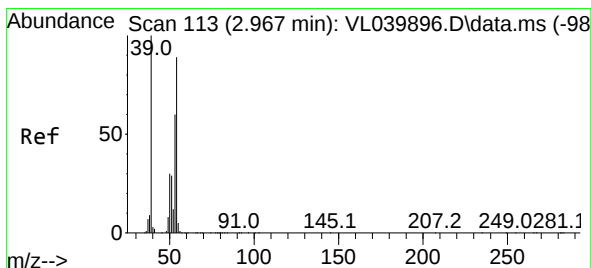
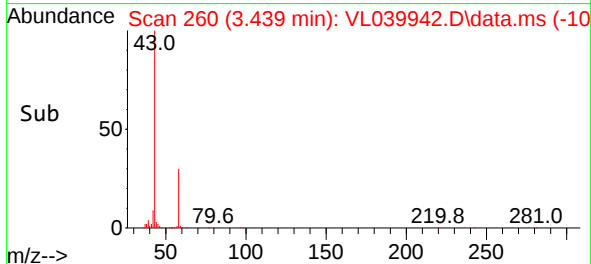
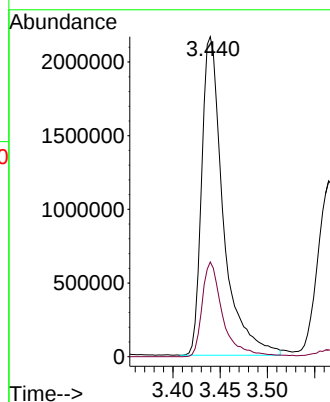
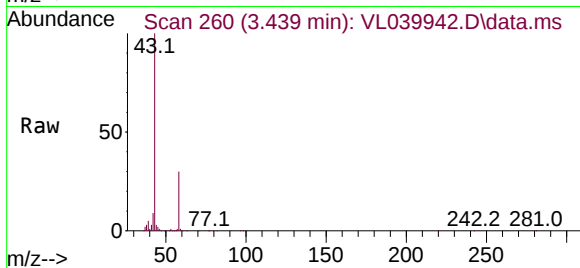
TPC-1A

Tgt Ion: 43 Resp: 3435484

Ion Ratio Lower Upper

43 100

58 28.5 22.9 34.3



#16

1,3-Butadiene

Concen: 0.332 ppbv

RT: 2.941 min Scan# 105

Delta R.T. -0.022 min

Lab File: VL039942.D

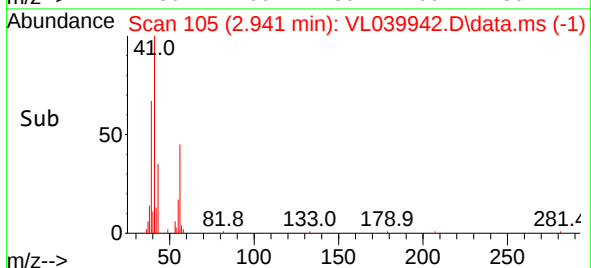
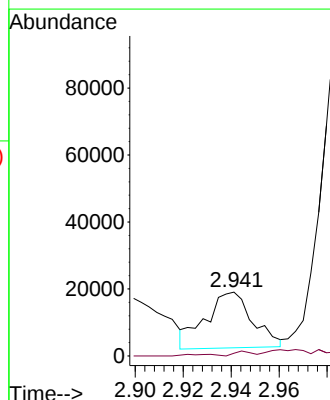
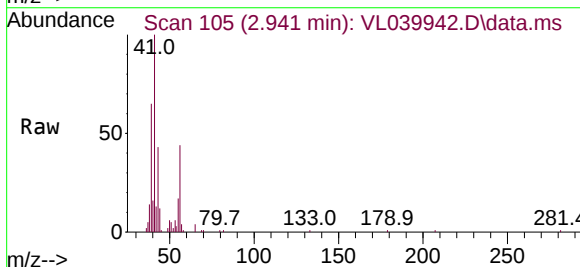
Acq: 1 Dec 2022 15:05

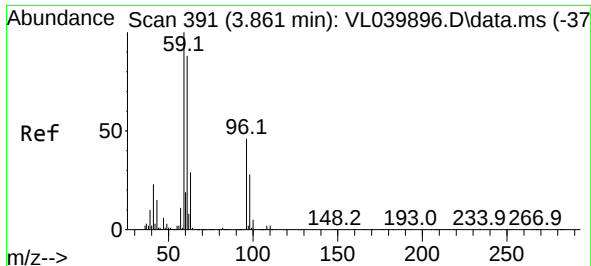
Tgt Ion: 39 Resp: 22672

Ion Ratio Lower Upper

39 100

54 13.9 66.6 99.8#





#17

tert-Butyl alcohol

Concen: 0.357 ppbv

RT: 3.877 min Scan# 391

Delta R.T. 0.019 min

Lab File: VL039942.D

Acq: 1 Dec 2022 15:05

Instrument :

MSVOA_L

ClientSampleId :

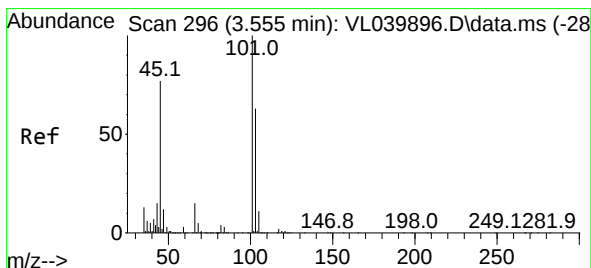
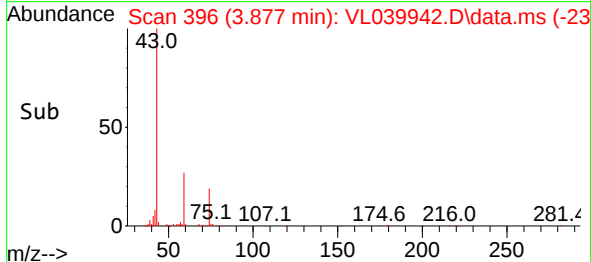
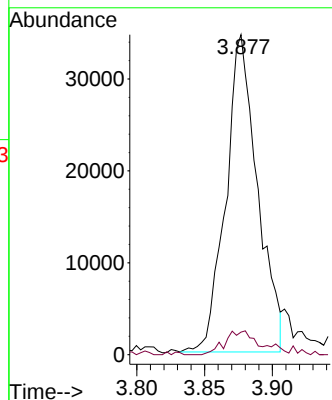
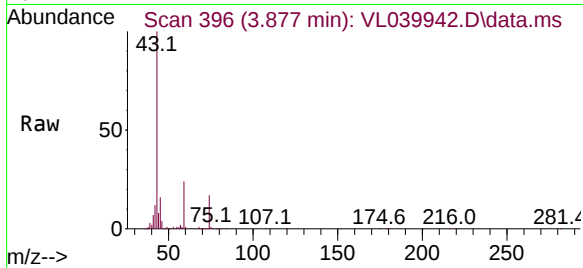
TPC-1A

Tgt Ion: 59 Resp: 56218

Ion Ratio Lower Upper

59 100

57 9.4 8.3 12.5



#19

Isopropyl Alcohol

Concen: 121.746 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.010 min

Lab File: VL039942.D

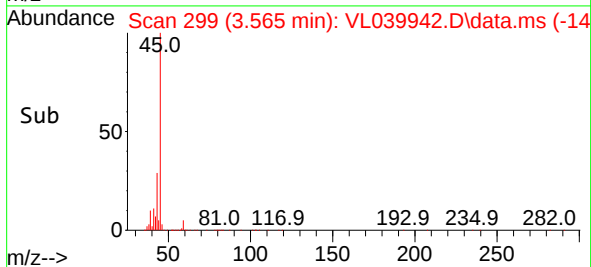
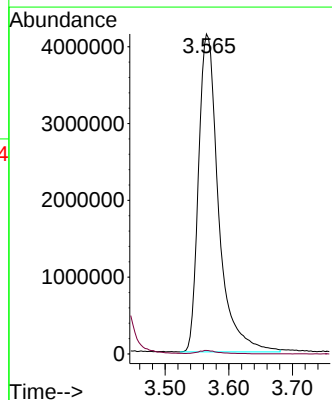
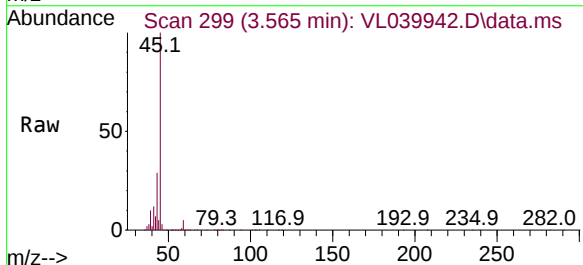
Acq: 1 Dec 2022 15:05

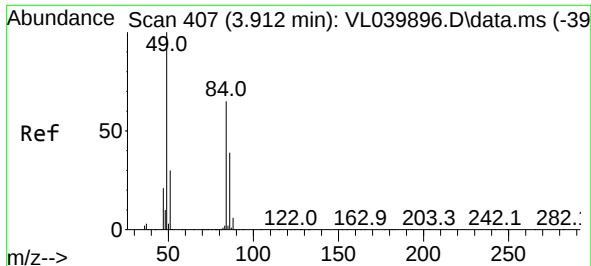
Tgt Ion: 45 Resp: 9033521

Ion Ratio Lower Upper

45 100

58 1.2 38.7 58.1#

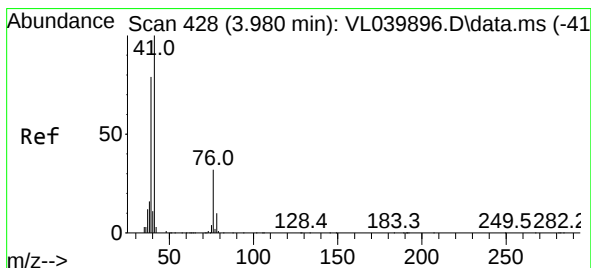
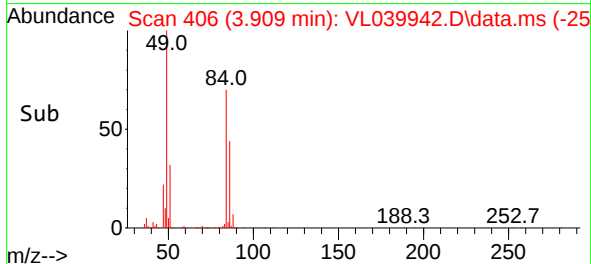
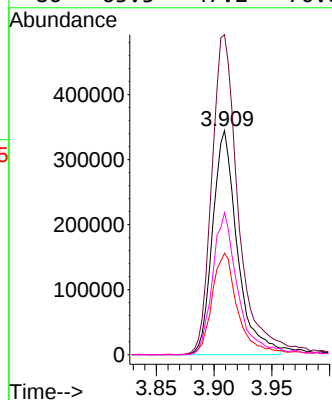
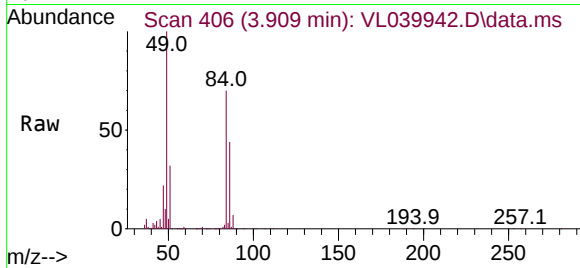




#20
Methylene Chloride
Concen: 7.738 ppbv
RT: 3.909 min Scan# 406
Delta R.T. -0.003 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

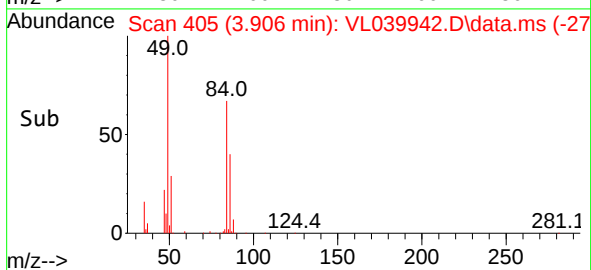
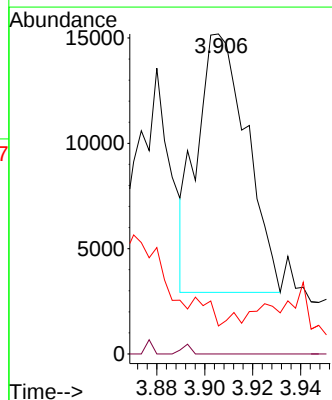
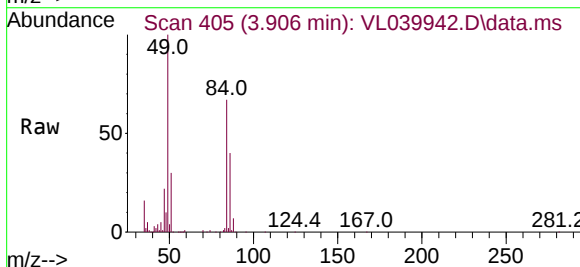
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

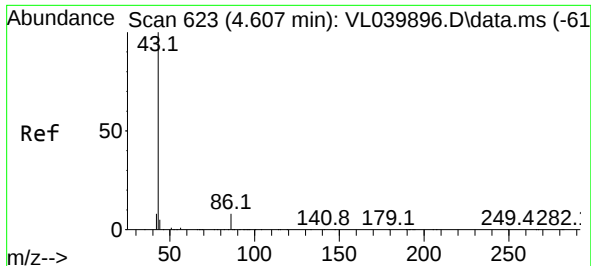
Tgt Ion: 84 Resp: 513734
Ion Ratio Lower Upper
84 100
49 142.8 122.2 183.4
51 45.2 36.3 54.5
86 63.3 47.2 70.8



#21
Allyl Chloride
Concen: 0.186 ppbv
RT: 3.906 min Scan# 405
Delta R.T. -0.071 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 41 Resp: 17715
Ion Ratio Lower Upper
41 100
76 1.4 25.6 38.4#
39 0.0 65.2 97.8#



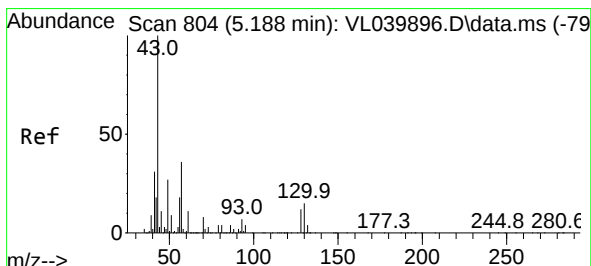
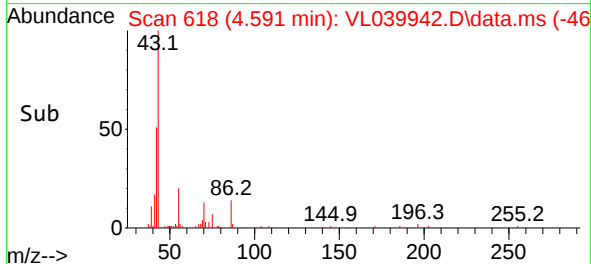
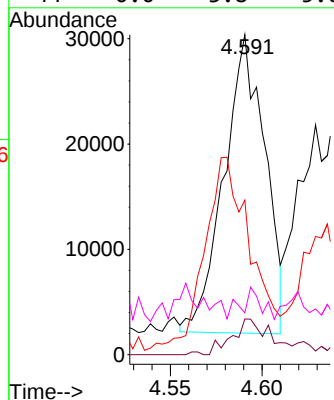
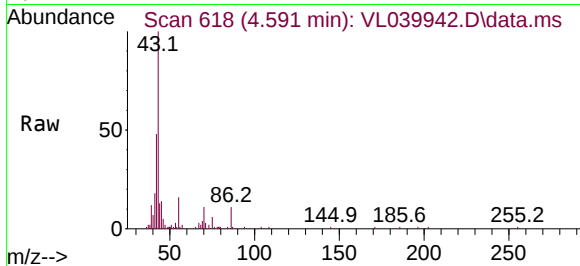


#23
 Vinyl Acetate
 Concen: 0.779 ppbv
 RT: 4.591 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL039942.D
 Acq: 1 Dec 2022 15:05

Instrument :
 MSVOA_1
 ClientSampleId :
 TPC-1A

Tgt Ion: 43 Resp: 43873

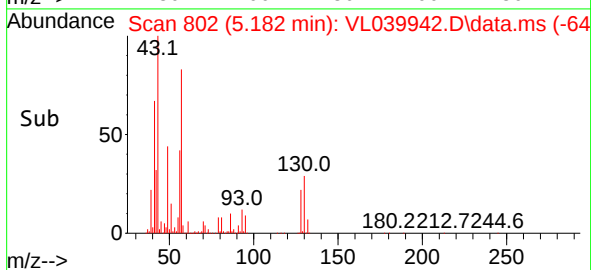
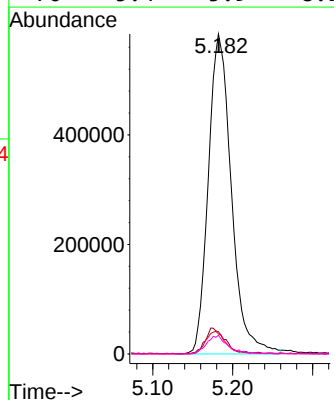
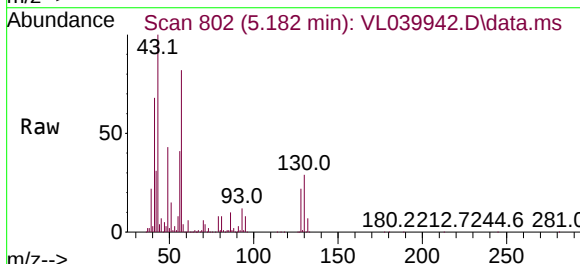
Ion	Ratio	Lower	Upper
43	100		
86	12.3	5.0	7.4#
42	47.3	7.6	11.4#
44	0.0	3.8	5.6#

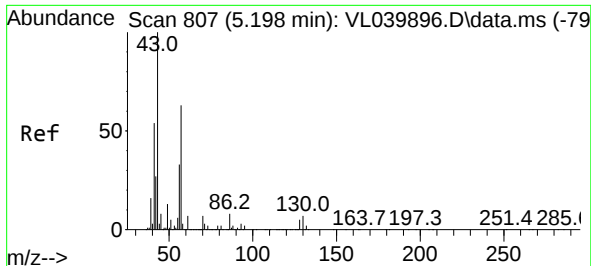


#25
 Ethyl Acetate
 Concen: 4.653 ppbv
 RT: 5.182 min Scan# 802
 Delta R.T. -0.003 min
 Lab File: VL039942.D
 Acq: 1 Dec 2022 15:05

Tgt Ion: 43 Resp: 1170673

Ion	Ratio	Lower	Upper
43	100		
45	7.5	8.4	12.6#
61	6.4	8.5	12.7#
70	5.4	5.9	8.9#

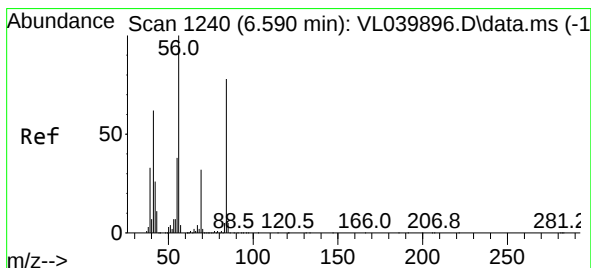
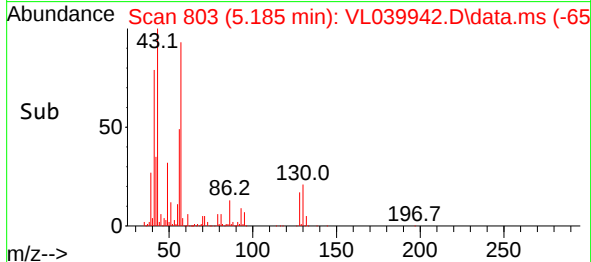
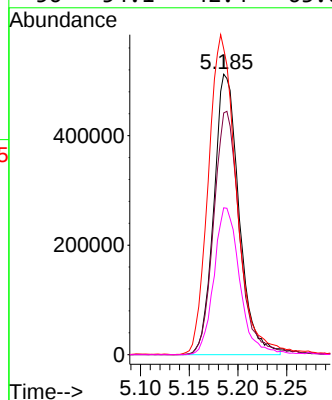
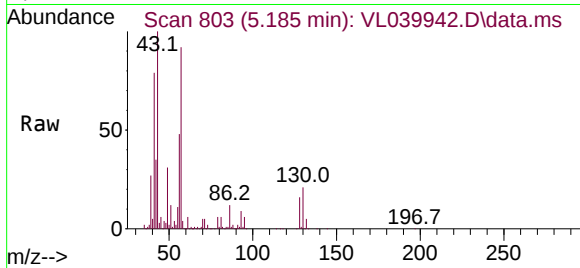




#26
Hexane
Concen: 8.399 ppbv
RT: 5.185 min Scan# 807
Delta R.T. -0.010 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

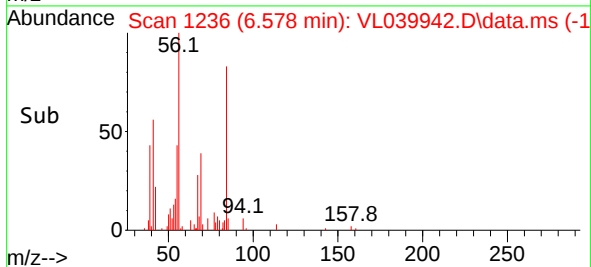
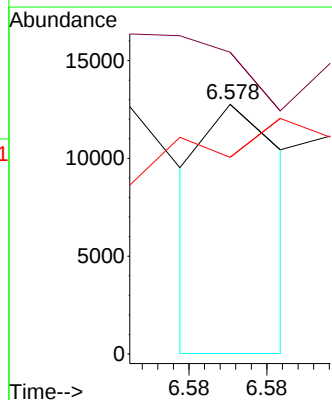
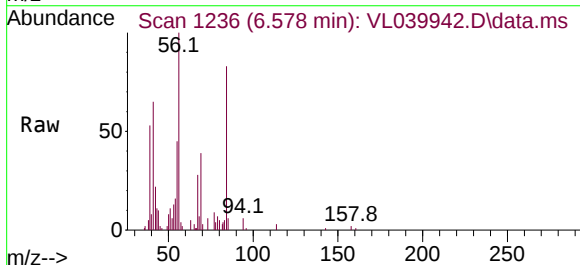
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

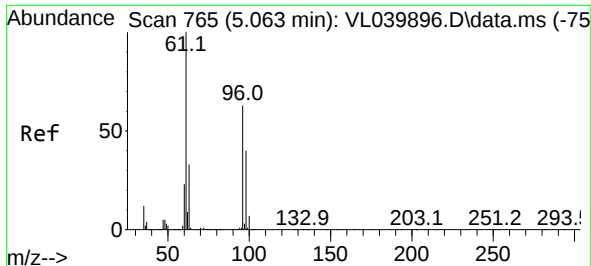
Tgt Ion: 57 Resp: 923153
Ion Ratio Lower Upper
57 100
41 89.9 72.3 108.5
43 128.2 188.7 283.1#
56 54.1 42.4 63.6



#30
Cyclohexane
Concen: 0.041 ppbv
RT: 6.578 min Scan# 1236
Delta R.T. -0.006 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 84 Resp: 4468
Ion Ratio Lower Upper
84 100
56 0.0 112.5 168.7#
41 0.0 67.8 101.8#

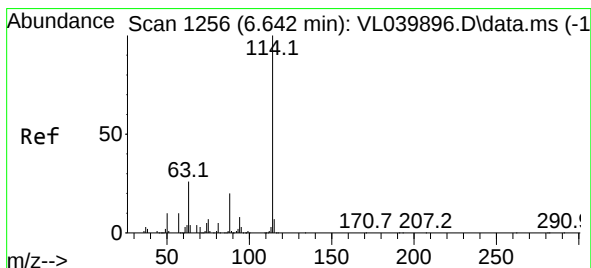
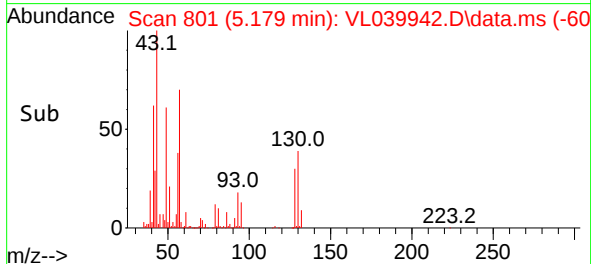
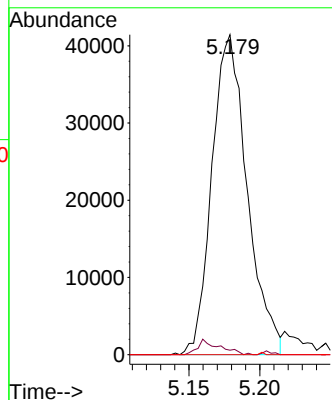
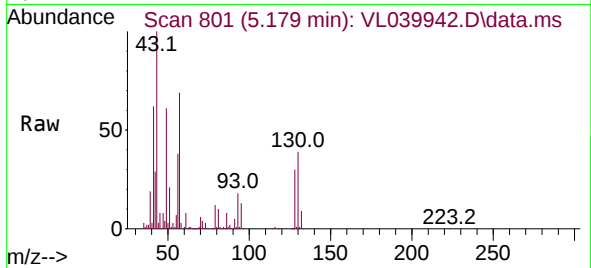




#31
 cis-1,2-Dichloroethene
 Concen: 0.707 ppbv
 RT: 5.179 min Scan# 801
 Delta R.T. 0.122 min
 Lab File: VL039942.D
 Acq: 1 Dec 2022 15:05

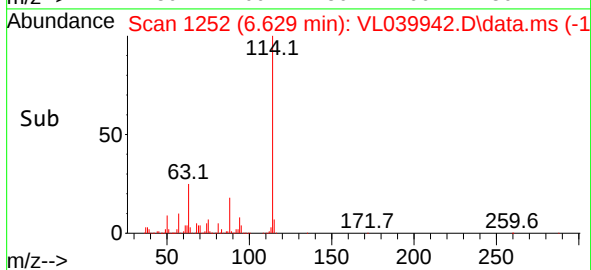
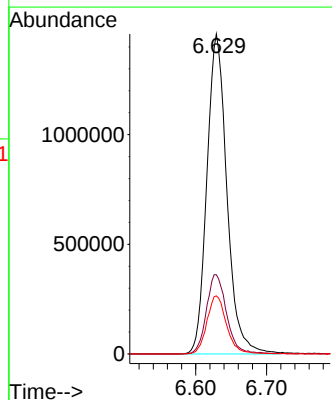
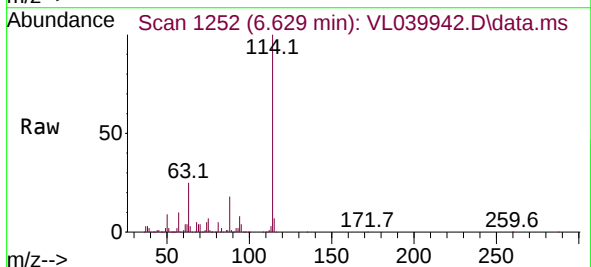
Instrument :
 MSVOA_L
 ClientSampleId :
 TPC-1A

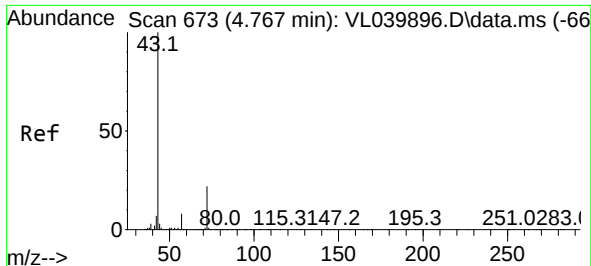
Tgt Ion: 61 Resp: 71768
 Ion Ratio Lower Upper
 61 100
 96 1.4 50.3 75.5#
 98 0.0 32.2 48.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.629 min Scan# 1252
 Delta R.T. -0.006 min
 Lab File: VL039942.D
 Acq: 1 Dec 2022 15:05

Tgt Ion: 114 Resp: 2861146
 Ion Ratio Lower Upper
 114 100
 63 25.2 21.4 32.0
 88 18.0 15.3 22.9

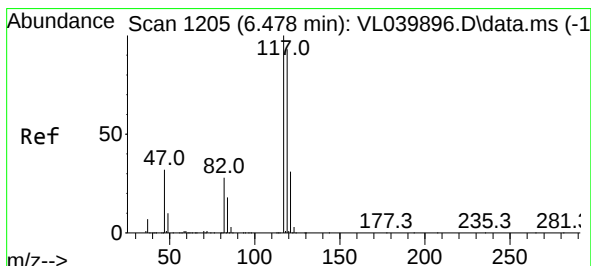
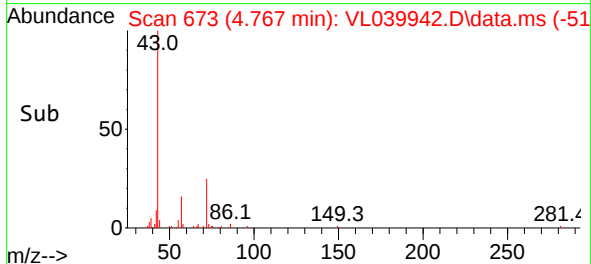
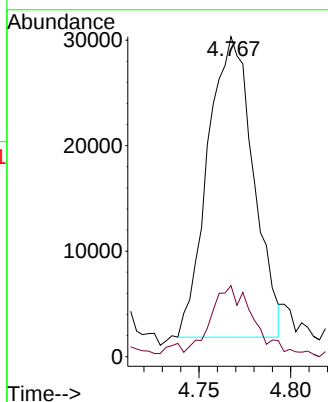
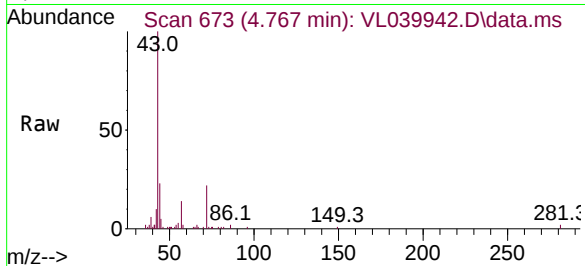




#34
2-Butanone
Concen: 0.359 ppbv
RT: 4.767 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

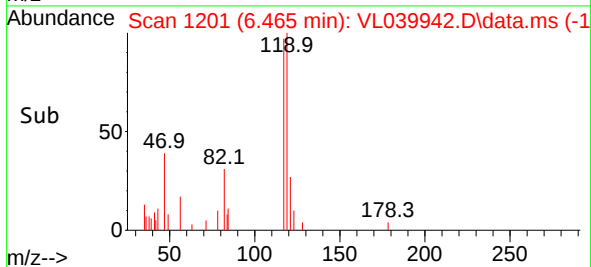
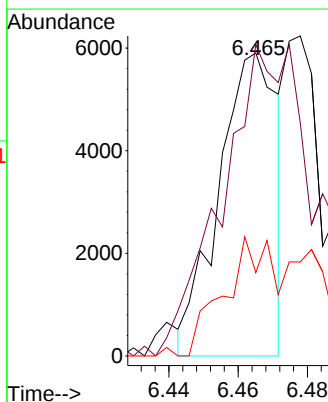
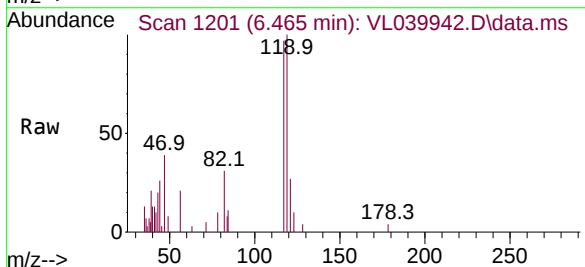
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

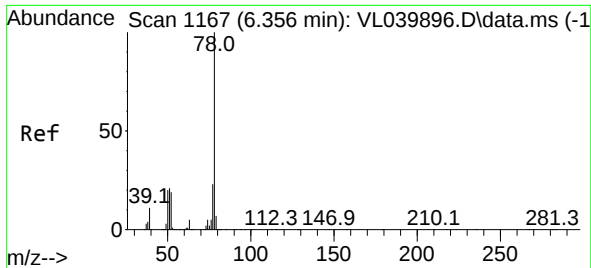
Tgt Ion: 43 Resp: 49190
Ion Ratio Lower Upper
43 100
72 24.5 17.4 26.2



#35
Carbon Tetrachloride
Concen: 0.042 ppbv
RT: 6.465 min Scan# 1201
Delta R.T. -0.013 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 117 Resp: 6875
Ion Ratio Lower Upper
117 100
119 96.4 74.7 112.1
121 30.2 24.5 36.7

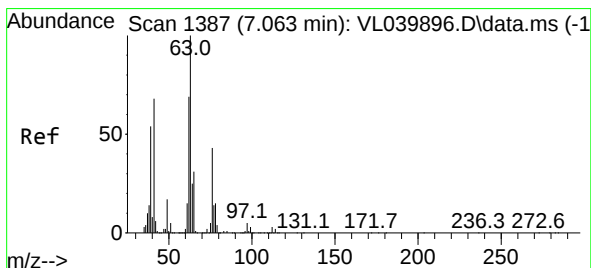
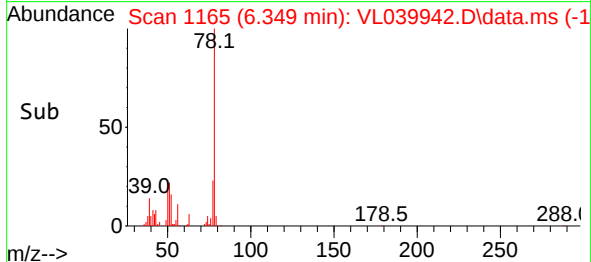
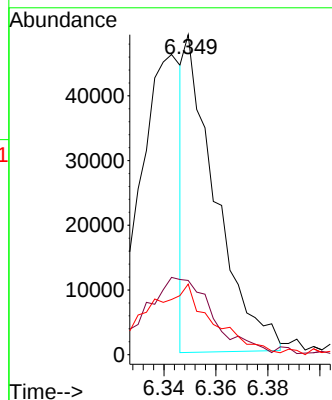
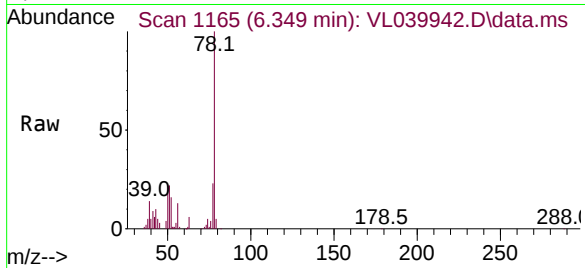




#36
Benzene
Concen: 0.167 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

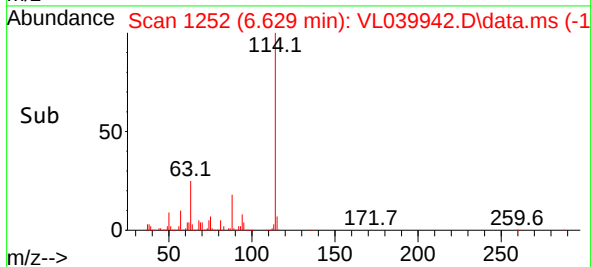
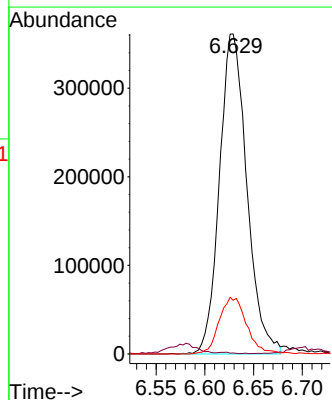
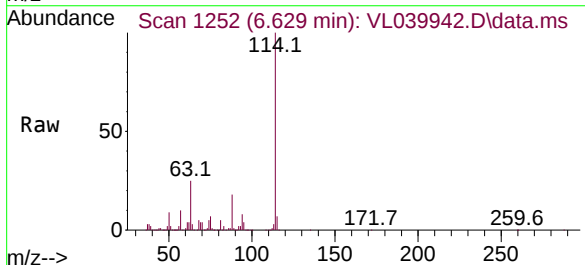
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

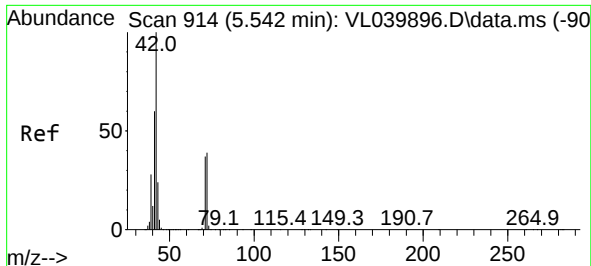
Tgt Ion: 78 Resp: 40601
Ion Ratio Lower Upper
78 100
77 21.5 18.2 27.2
50 22.2 15.8 23.8



#39
1,2-Dichloropropane
Concen: 7.443 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. -0.428 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 63 Resp: 705244
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 16.8 55.0 82.6#





#41

Tetrahydrofuran

Concen: 0.076 ppbv

RT: 5.227 min Scan# 81

Delta R.T. -0.312 min

Lab File: VL039942.D

Acq: 1 Dec 2022 15:05

Instrument :

MSVOA_L

ClientSampleId :

TPC-1A

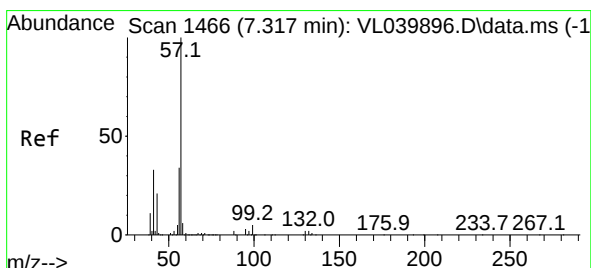
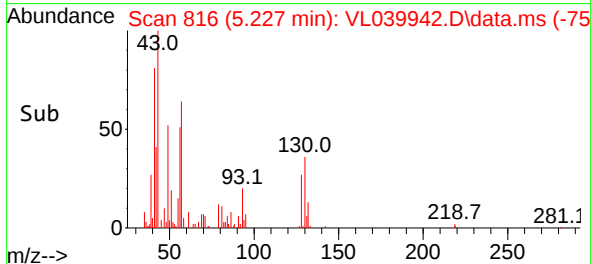
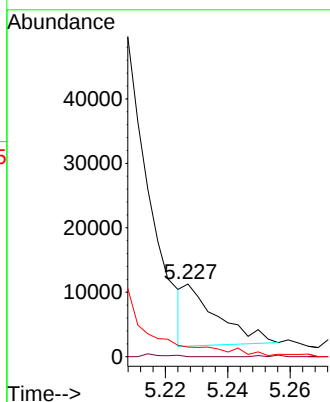
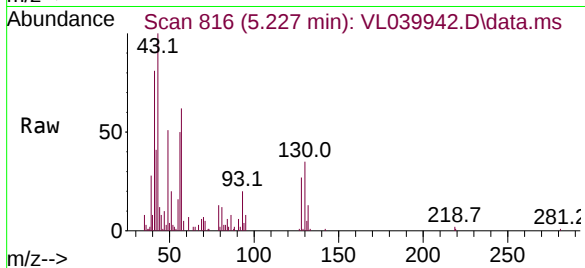
Tgt Ion: 42 Resp: 7224

Ion Ratio Lower Upper

42 100

72 0.0 31.6 47.4#

71 0.0 31.2 46.8#



#44

2,2,4-Trimethylpentane

Concen: 0.051 ppbv

RT: 7.304 min Scan# 1462

Delta R.T. -0.006 min

Lab File: VL039942.D

Acq: 1 Dec 2022 15:05

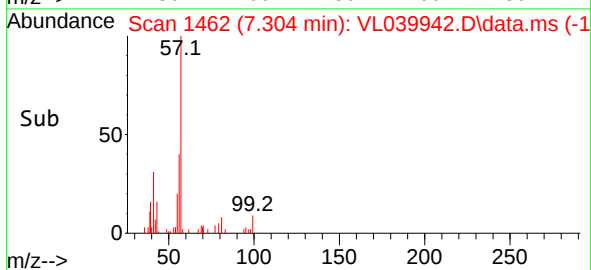
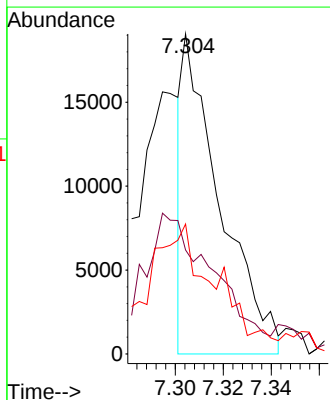
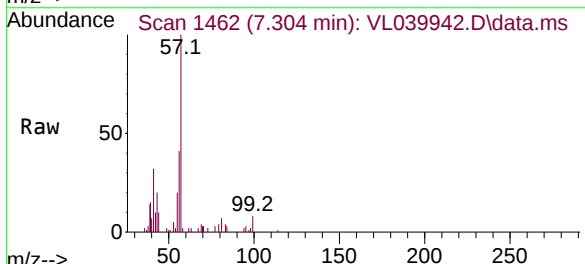
Tgt Ion: 57 Resp: 20626

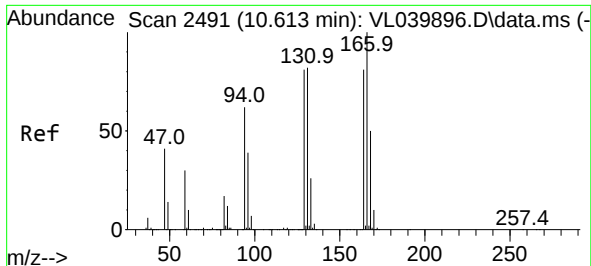
Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.2#

56 92.5 25.5 38.3#

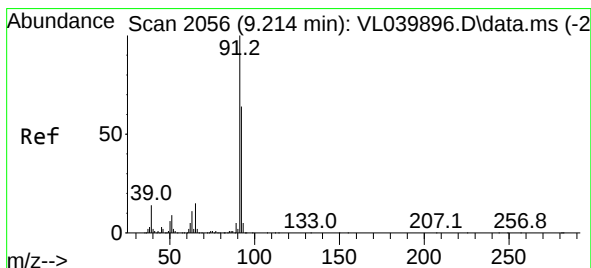
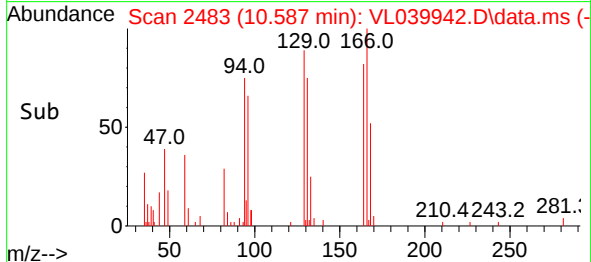
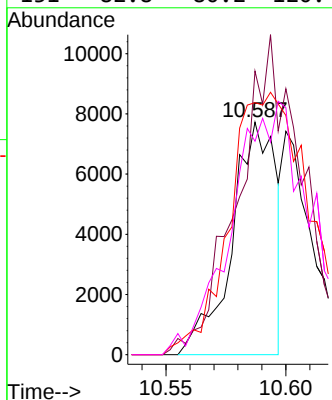
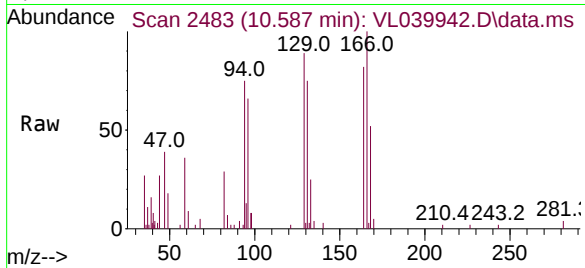




#52
Tetrachloroethene
Concen: 0.108 ppbv
RT: 10.587 min Scan# 2491
Delta R.T. -0.016 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

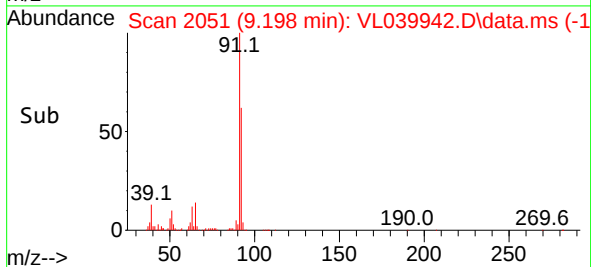
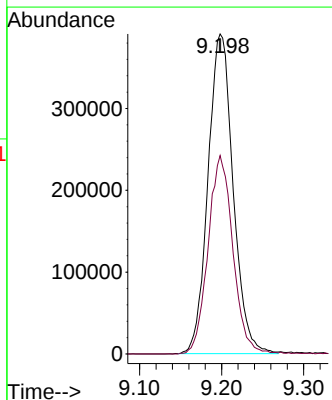
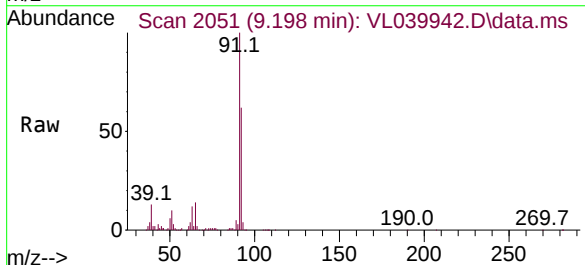
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

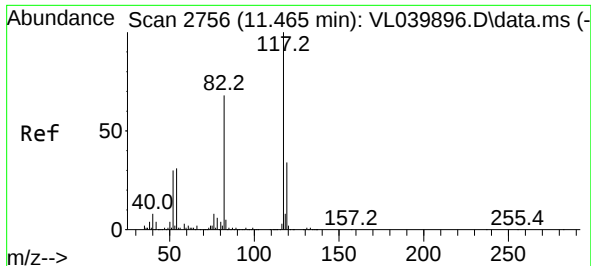
Tgt Ion:164 Resp: 9820
Ion Ratio Lower Upper
164 100
166 115.0 98.3 147.5
129 103.3 79.7 119.5
131 82.8 80.2 120.4



#53
Toluene
Concen: 3.007 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. -0.006 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 91 Resp: 832968
Ion Ratio Lower Upper
91 100
92 61.5 49.8 74.6

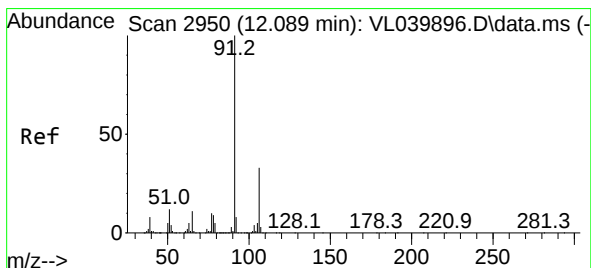
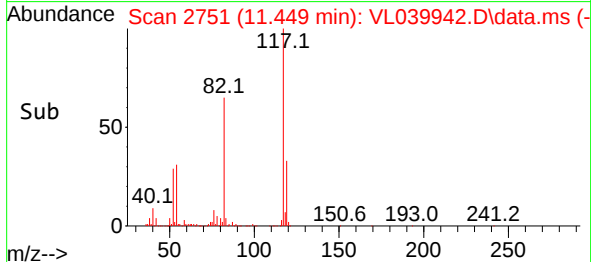
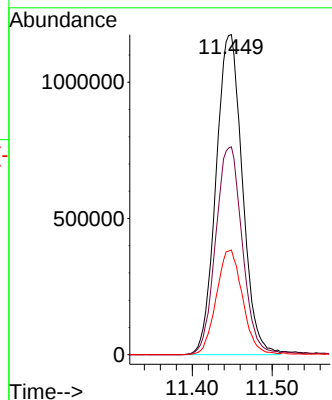
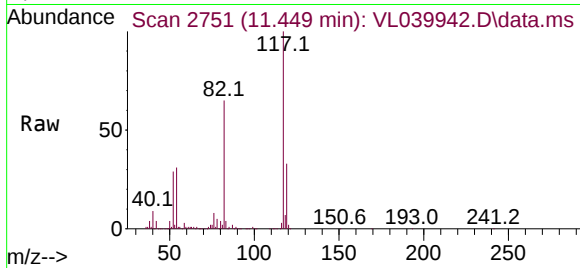




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

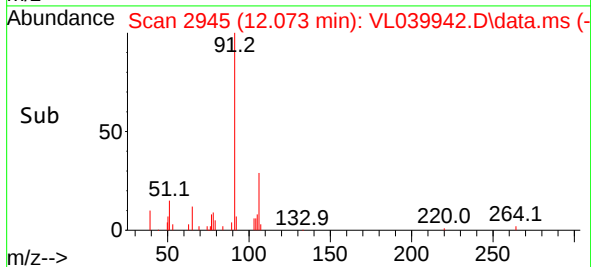
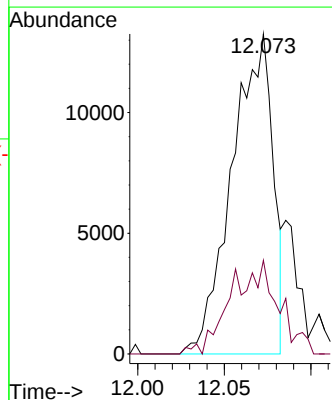
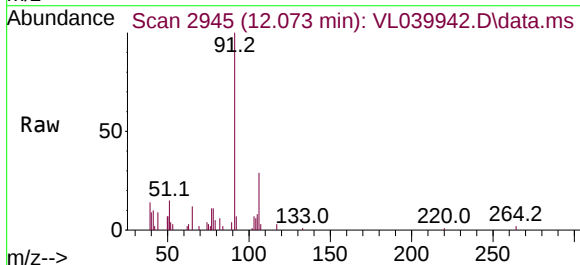
Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

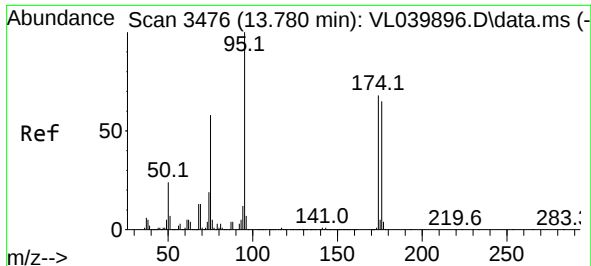
Tgt Ion:117 Resp: 2687837
Ion Ratio Lower Upper
117 100
82 66.1 52.3 78.5
119 32.8 25.7 38.5



#58
Ethyl Benzene
Concen: 0.060 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.003 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 91 Resp: 21841
Ion Ratio Lower Upper
91 100
106 29.3 26.1 39.1

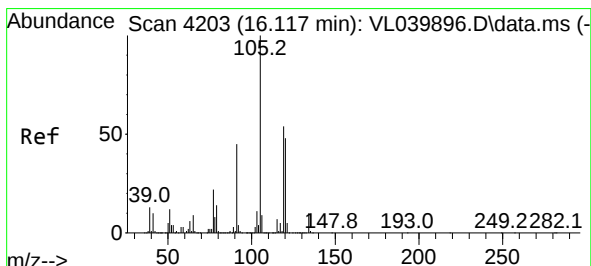
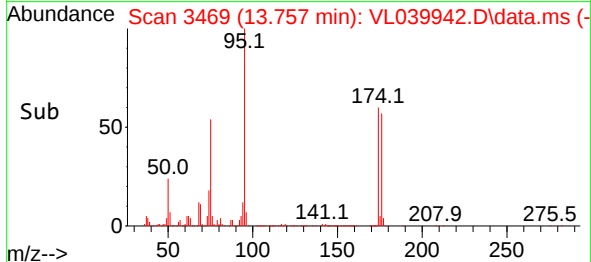
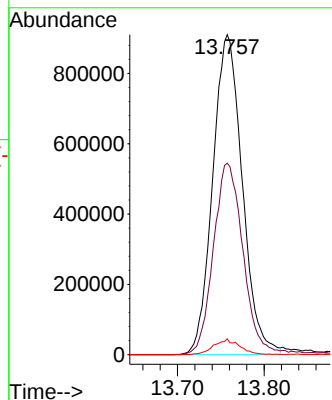
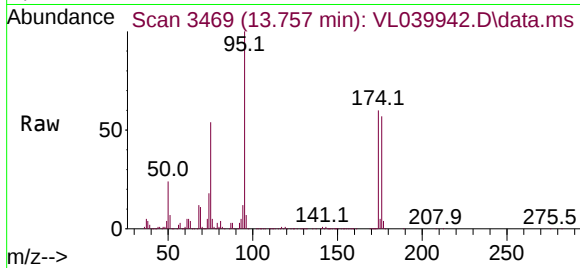




#68
1-Bromo-4-Fluorobenzene
Concen: 10.505 ppbv
RT: 13.757 min Scan# 3476
Delta R.T. -0.006 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Instrument :
MSVOA_L
ClientSampleId :
TPC-1A

Tgt Ion: 95 Resp: 2156726
Ion Ratio Lower Upper
95 100
174 61.5 53.7 80.5
175 4.3 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.036 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. -0.003 min
Lab File: VL039942.D
Acq: 1 Dec 2022 15:05

Tgt Ion: 105 Resp: 11320
Ion Ratio Lower Upper
105 100
120 28.8 38.7 58.1#
91 16.0 36.4 54.6#
77 28.9 17.4 26.0#

