

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110922\
 Data File : VL039858.D
 Acq On : 9 Nov 2022 21:30
 Operator : SY/AP
 Sample : N5555-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-9E

Quant Time: Nov 10 03:52:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	936468	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.632	114	2189962	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.433	117	2004775	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	1624054	10.823	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.200%

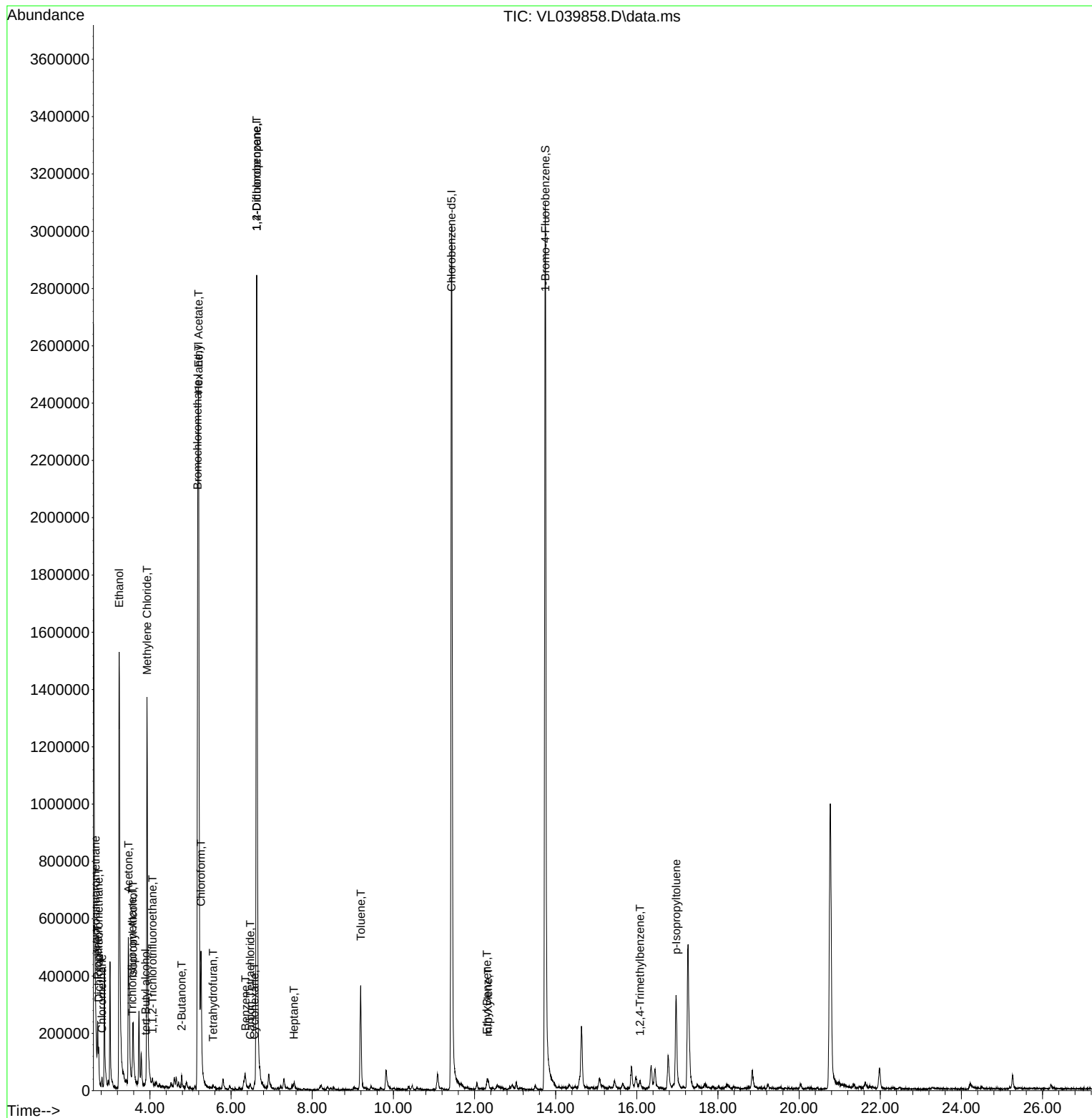
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.735	85	74508	0.471	ppbv	99
3) Chlorodifluoromethane	2.661	51	107715	0.965	ppbv #	76
4) Chloromethane	2.819	50	27116	0.390	ppbv #	85
9) Propene	2.710	41	44597	0.767	ppbv #	76
10) Heptane	7.545	43	4863	0.035	ppbv #	27
11) Trichlorofluoromethane	3.565	101	34550	0.268	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.063	101	4491	0.048	ppbv #	59
13) Ethanol	3.243	45	1656241	402.876	ppbv	95
15) Acetone	3.468	43	617293	5.415	ppbv	93
17) tert-Butyl alcohol	3.893	59	4747	0.044	ppbv #	70
19) Isopropyl Alcohol	3.584	45	236214	4.187	ppbv #	34
20) Methylene Chloride	3.931	84	477006	11.697	ppbv	96
25) Ethyl Acetate	5.198	43	586925	2.500	ppbv #	77
26) Hexane	5.201	57	832697	7.954	ppbv #	39
29) Chloroform	5.259	83	276028	1.875	ppbv	97
30) Cyclohexane	6.574	84	5608	0.064	ppbv #	8
34) 2-Butanone	4.780	43	44524	0.493	ppbv #	86
35) Carbon Tetrachloride	6.471	117	7580	0.059	ppbv #	76
36) Benzene	6.352	78	17396	0.094	ppbv	94
39) 1,2-Dichloropropane	6.632	63	585417	8.134	ppbv #	27
41) Tetrahydrofuran	5.558	42	3152	0.042	ppbv #	50
53) Toluene	9.195	91	281239	1.327	ppbv	99
58) Ethyl Benzene	12.307	91	15217	0.056	ppbv	97
59) m/p-Xylene	12.336	91	10938	0.048	ppbv #	1
69) p-Isopropyltoluene	16.973	119	123588	0.399	ppbv #	28
74) 1,2,4-Trimethylbenzene	16.076	105	10764	0.047	ppbv #	59

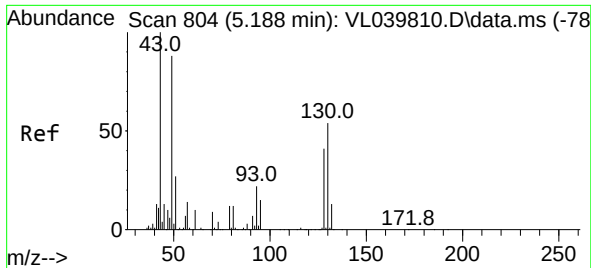
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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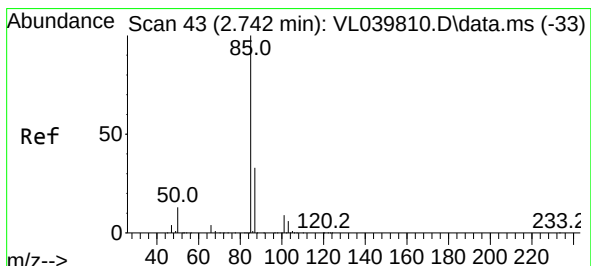
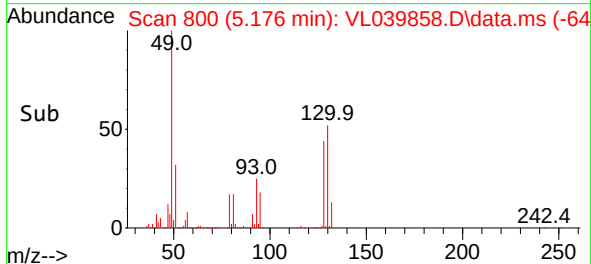
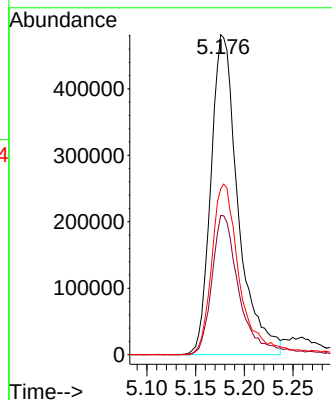
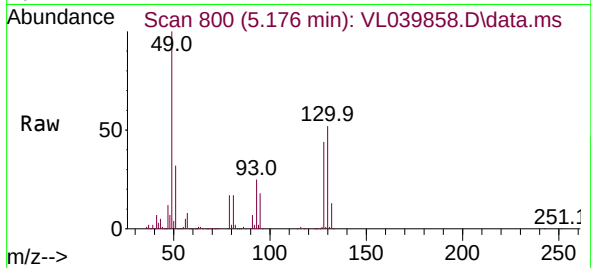




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.012 min
 Lab File: VL039858.D
 Acq: 9 Nov 2022 21:30

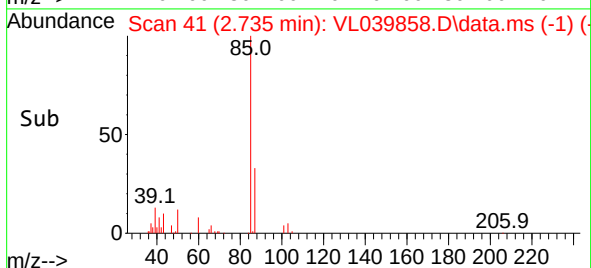
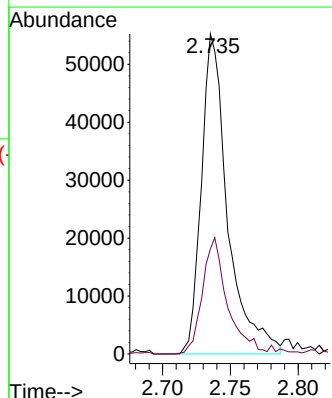
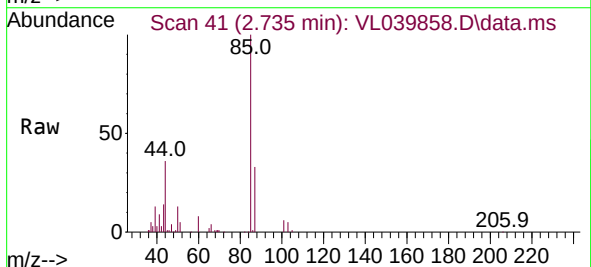
Instrument :
 MSVOA_L
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 IA-9E

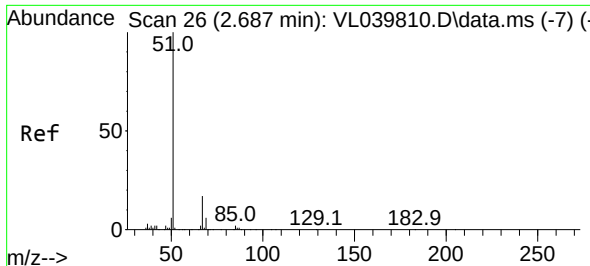
Tgt Ion: 49 Resp: 936468
 Ion Ratio Lower Upper
 49 100
 128 44.9 24.6 73.6
 130 56.2 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.471 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VL039858.D
 Acq: 9 Nov 2022 21:30

Tgt Ion: 85 Resp: 74508
 Ion Ratio Lower Upper
 85 100
 87 32.5 26.4 39.6

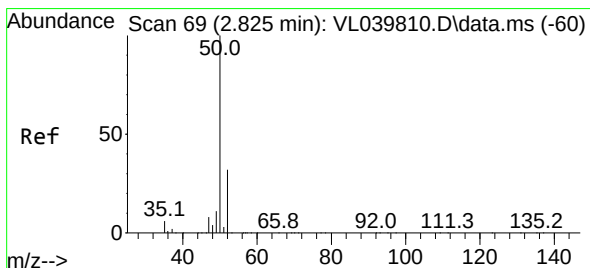
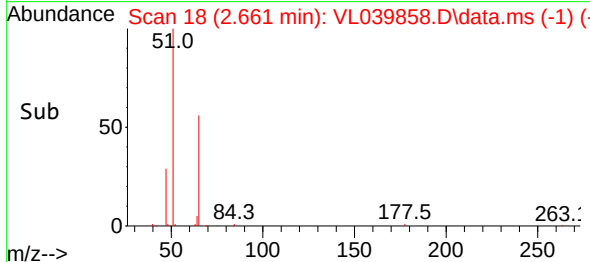
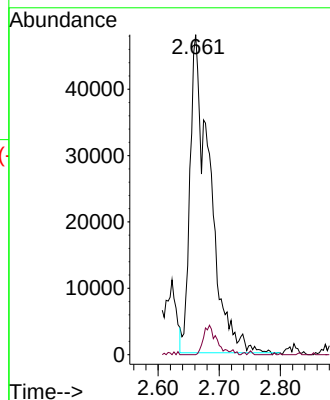
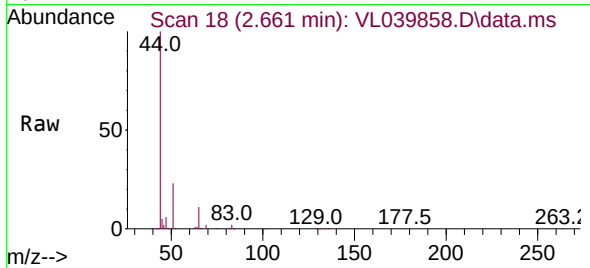




#3
Chlorodifluoromethane
Concen: 0.965 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

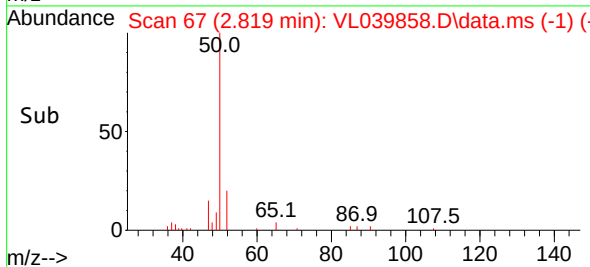
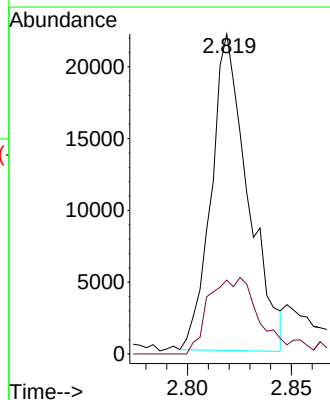
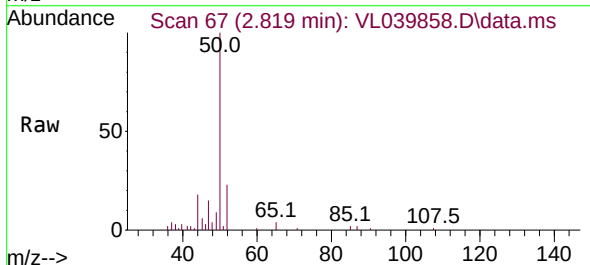
Instrument :
MSVOA_L
ClientSampleId :
IA-9E

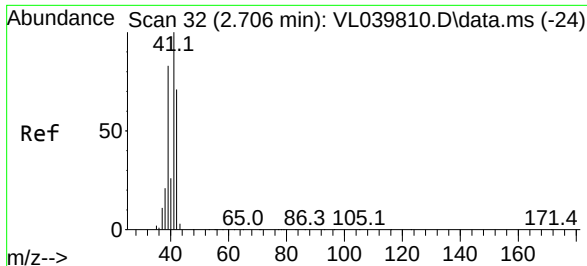
Tgt Ion: 51 Resp: 107715
Ion Ratio Lower Upper
51 100
67 6.4 13.2 19.8#



#4
Chloromethane
Concen: 0.390 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.006 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion: 50 Resp: 27116
Ion Ratio Lower Upper
50 100
52 23.4 25.5 38.3#





#9

Propene

Concen: 0.767 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL039858.D

Acq: 9 Nov 2022 21:30

Instrument :

MSVOA_L

ClientSampleId :

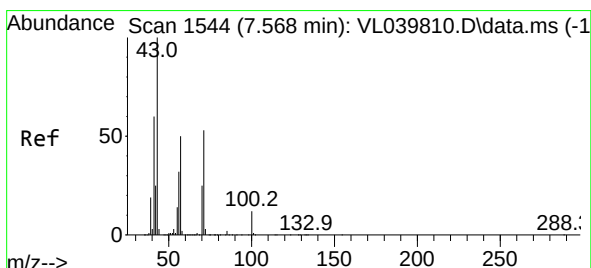
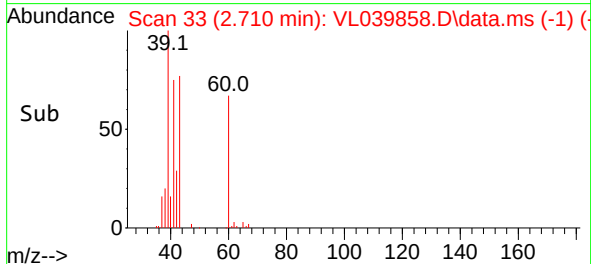
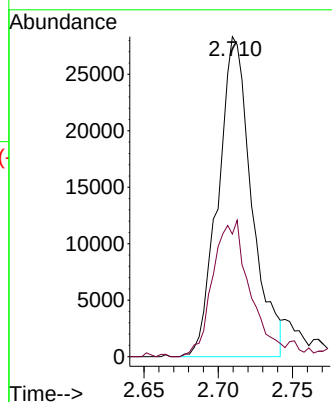
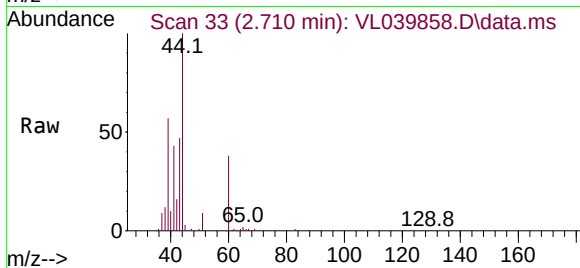
IA-9E

Tgt Ion: 41 Resp: 44597

Ion Ratio Lower Upper

41 100

42 50.7 56.3 84.5#



#10

Heptane

Concen: 0.035 ppbv

RT: 7.545 min Scan# 1537

Delta R.T. -0.022 min

Lab File: VL039858.D

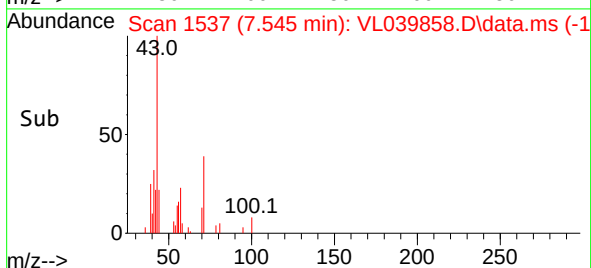
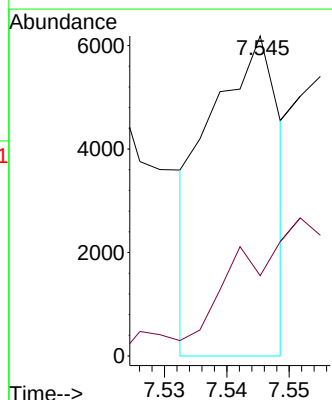
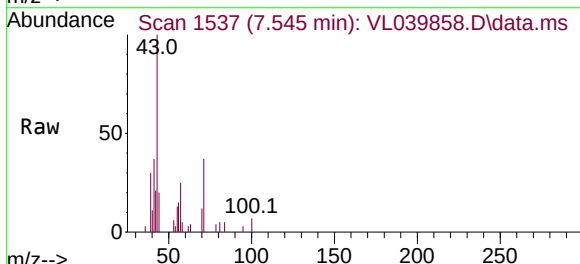
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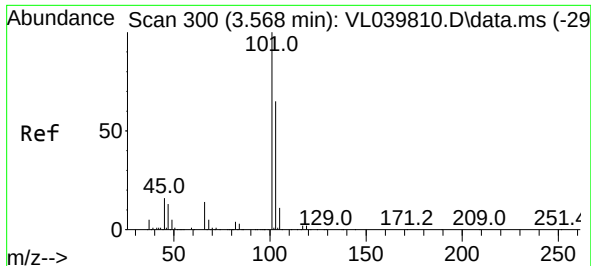
Tgt Ion: 43 Resp: 4863

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#

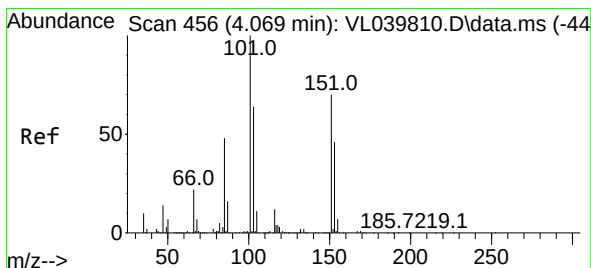
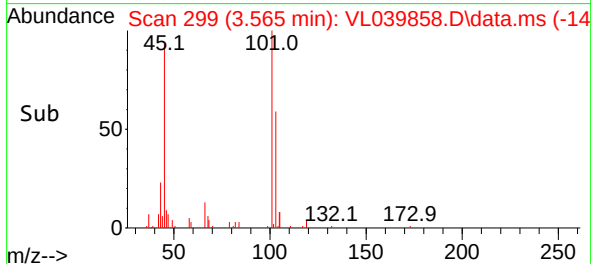
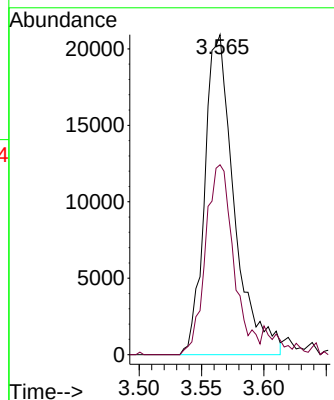
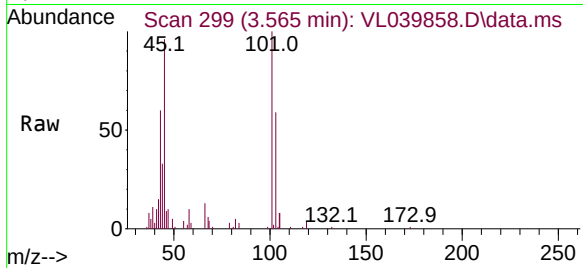




#11
 Trichlorofluoromethane
 Concen: 0.268 ppbv
 RT: 3.565 min Scan# 299
 Delta R.T. -0.003 min
 Lab File: VL039858.D
 Acq: 9 Nov 2022 21:30

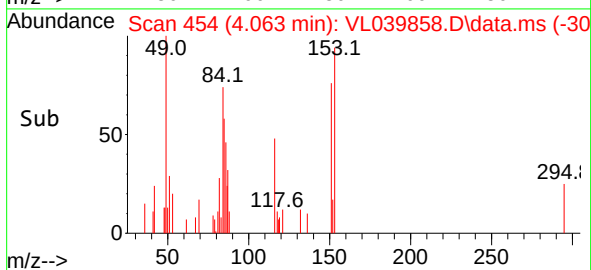
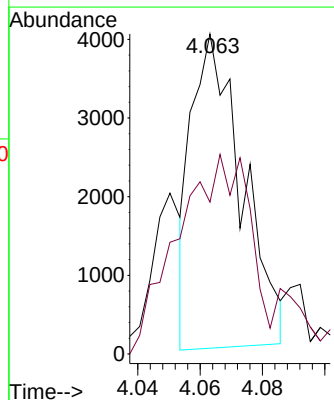
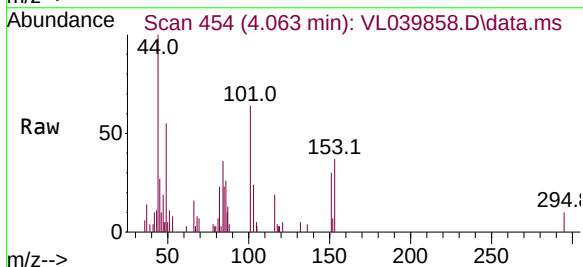
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-9E

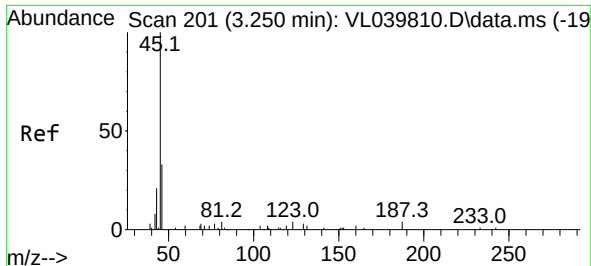
Tgt Ion:101 Resp: 34550
 Ion Ratio Lower Upper
 101 100
 103 59.4 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.048 ppbv
 RT: 4.063 min Scan# 454
 Delta R.T. -0.006 min
 Lab File: VL039858.D
 Acq: 9 Nov 2022 21:30

Tgt Ion:101 Resp: 4491
 Ion Ratio Lower Upper
 101 100
 151 105.3 57.2 85.8#

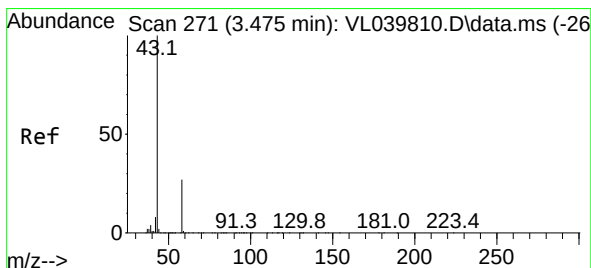
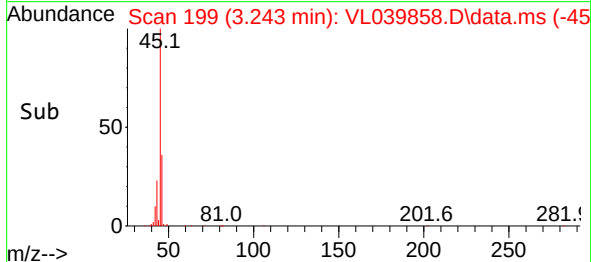
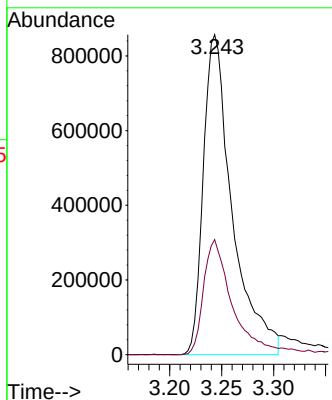
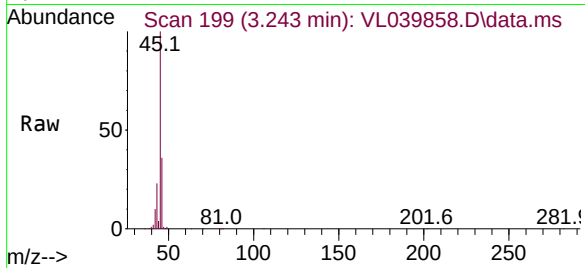




#13
Ethanol
Concen: 402.876 ppbv
RT: 3.243 min Scan# 199
Delta R.T. -0.006 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

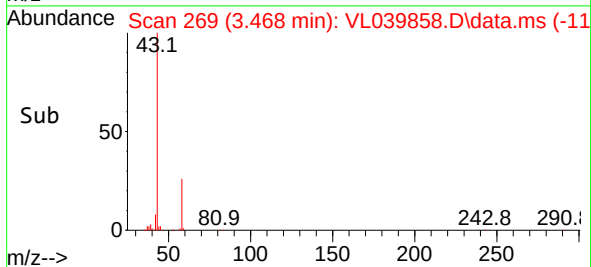
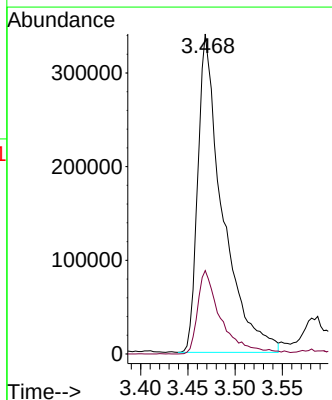
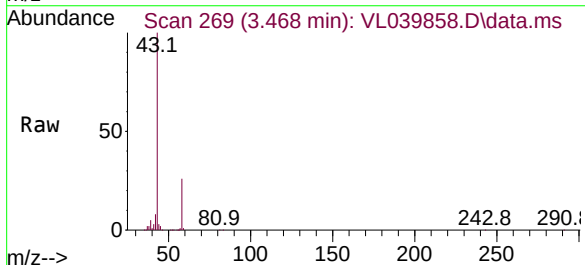
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ClientSampleId :
IA-9E

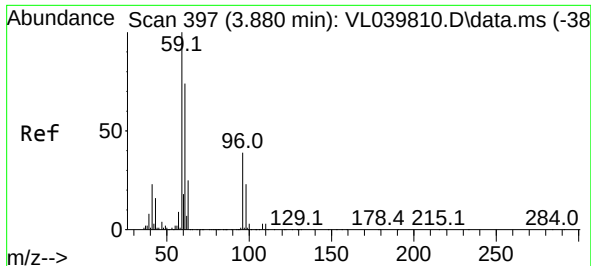
Tgt Ion: 45 Resp: 1656241
Ion Ratio Lower Upper
45 100
46 38.1 16.5 65.9



#15
Acetone
Concen: 5.415 ppbv
RT: 3.468 min Scan# 269
Delta R.T. -0.006 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion: 43 Resp: 617293
Ion Ratio Lower Upper
43 100
58 25.1 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.044 ppbv

RT: 3.893 min Scan# 401

Delta R.T. 0.013 min

Lab File: VL039858.D

Acq: 9 Nov 2022 21:30

Instrument :

MSVOA_L

ClientSampleId :

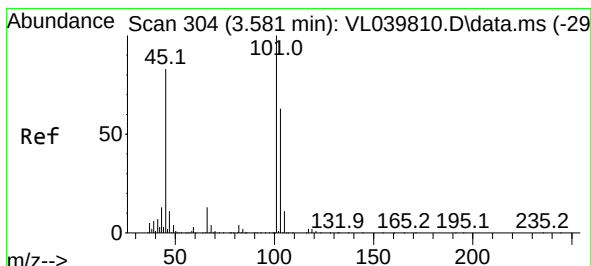
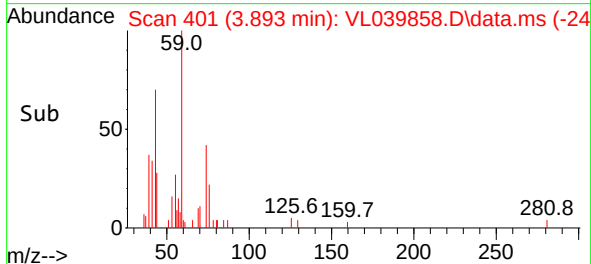
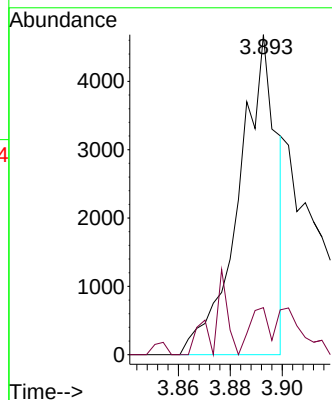
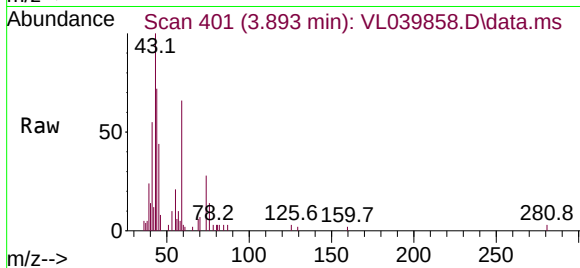
IA-9E

Tgt Ion: 59 Resp: 4747

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



#19

Isopropyl Alcohol

Concen: 4.187 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.003 min

Lab File: VL039858.D

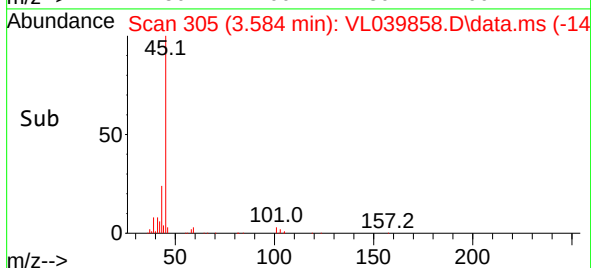
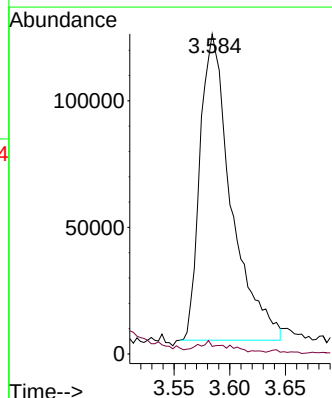
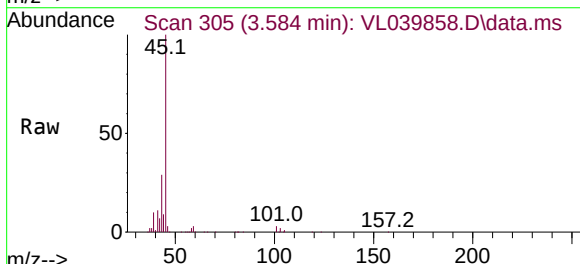
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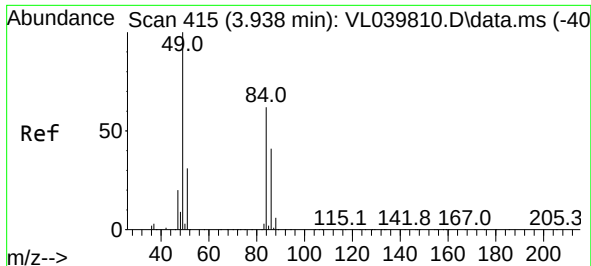
Tgt Ion: 45 Resp: 236214

Ion Ratio Lower Upper

45 100

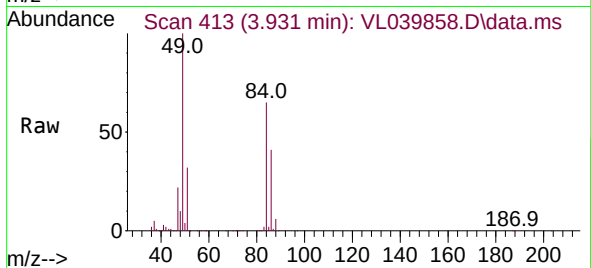
58 3.2 38.3 57.5#





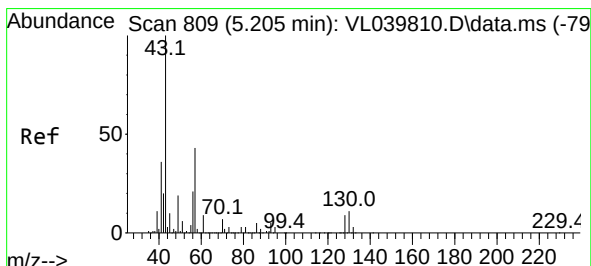
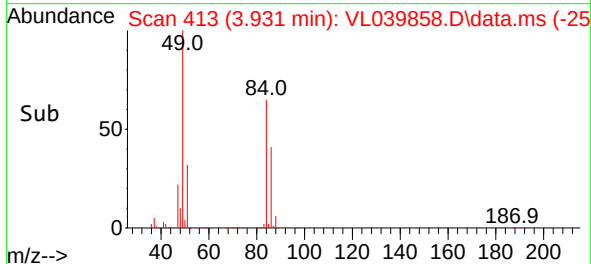
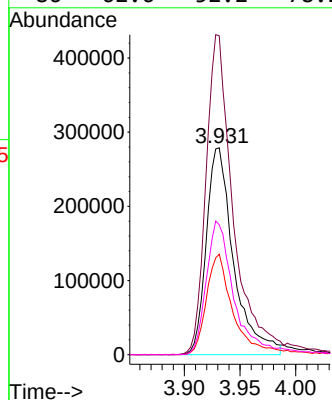
#20
Methylene Chloride
Concen: 11.697 ppbv
RT: 3.931 min Scan# 413
Delta R.T. -0.006 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Instrument :
MSVOA_L
ClientSampleId :
IA-9E



Tgt Ion: 84 Resp: 477006

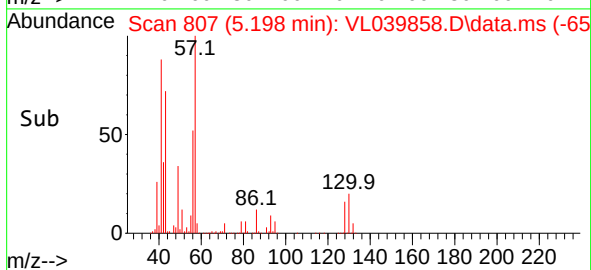
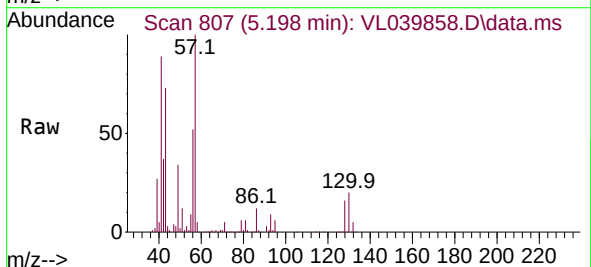
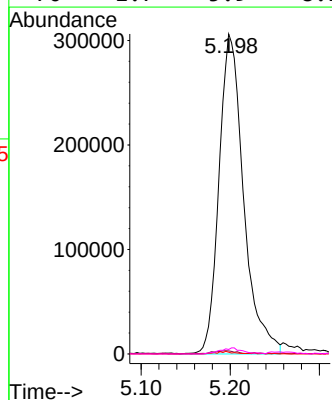
Ion	Ratio	Lower	Upper
84	100		
49	153.9	128.6	192.8
51	48.6	40.2	60.4
86	62.6	52.2	78.2

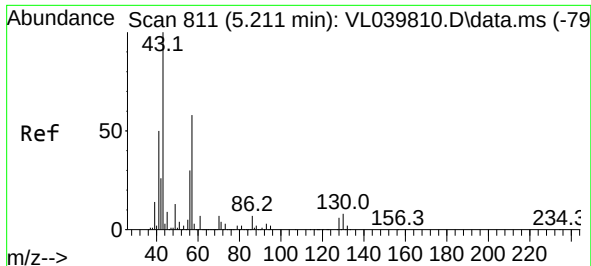


#25
Ethyl Acetate
Concen: 2.500 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.006 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion: 43 Resp: 586925

Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.2	12.2#
61	0.7	8.1	12.1#
70	1.7	5.9	8.9#

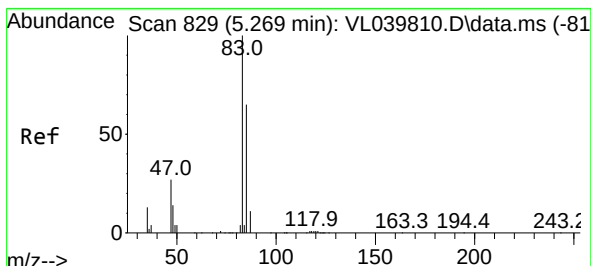
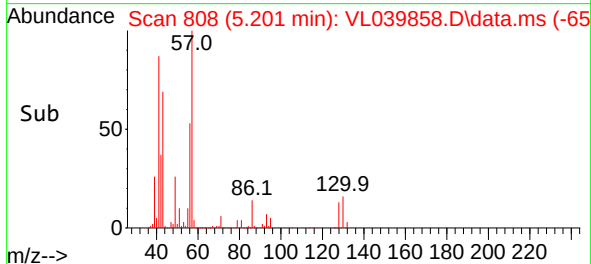
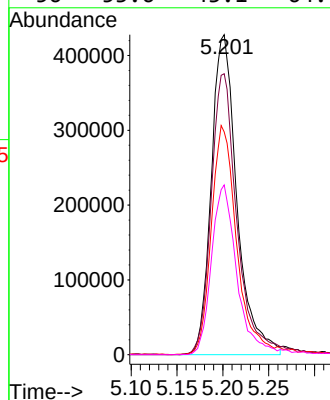
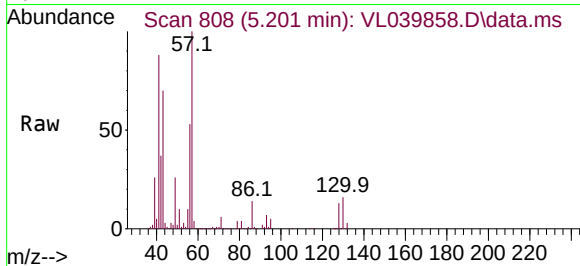




#26
Hexane
Concen: 7.954 ppbv
RT: 5.201 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

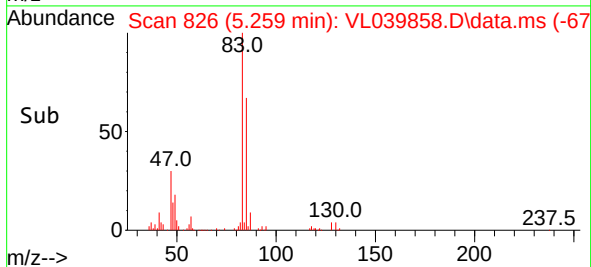
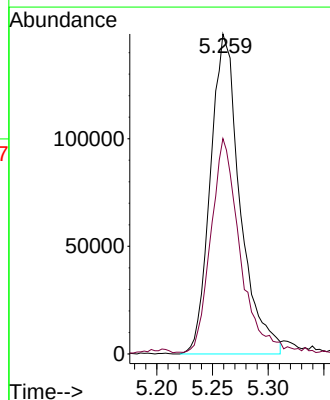
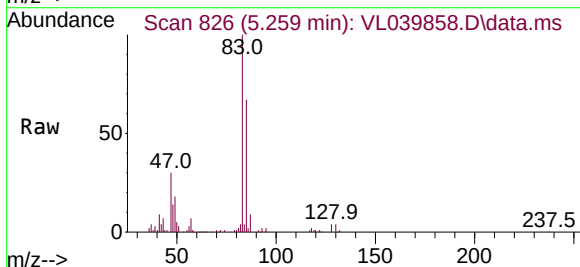
Instrument :
MSVOA_L
ClientSampleId :
IA-9E

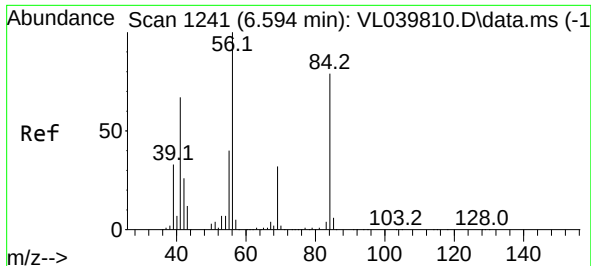
Tgt Ion: 57 Resp: 832697
Ion Ratio Lower Upper
57 100
41 90.5 73.7 110.5
43 73.1 189.8 284.8#
56 53.6 43.1 64.7



#29
Chloroform
Concen: 1.875 ppbv
RT: 5.259 min Scan# 826
Delta R.T. -0.010 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion: 83 Resp: 276028
Ion Ratio Lower Upper
83 100
85 66.8 51.6 77.4

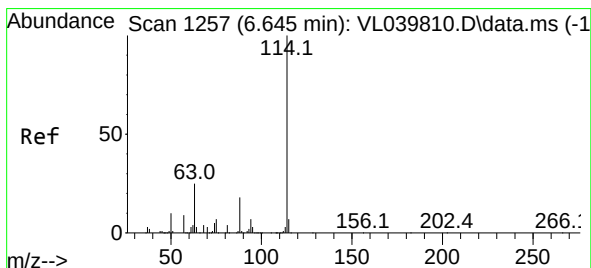
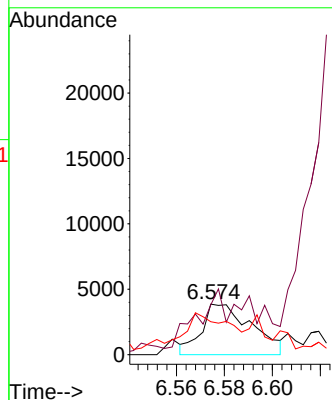
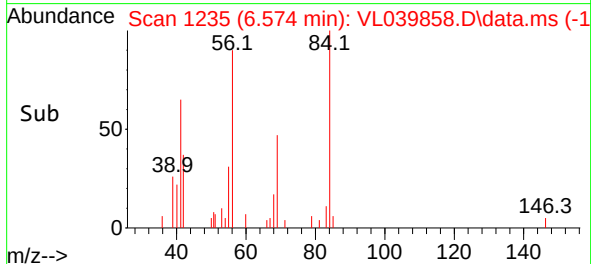
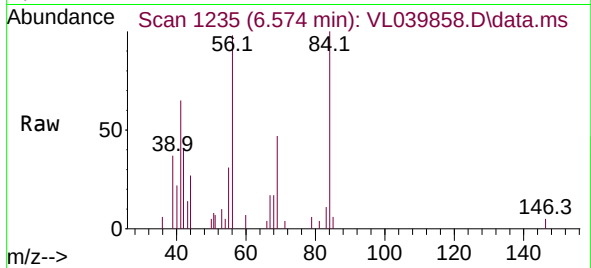




#30
Cyclohexane
Concen: 0.064 ppbv
RT: 6.574 min Scan# 1235
Delta R.T. -0.019 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

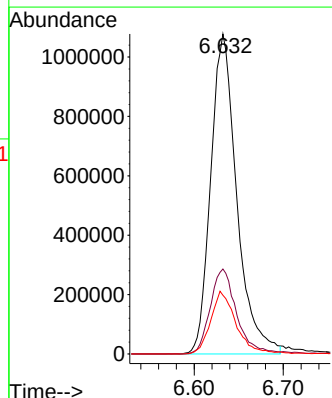
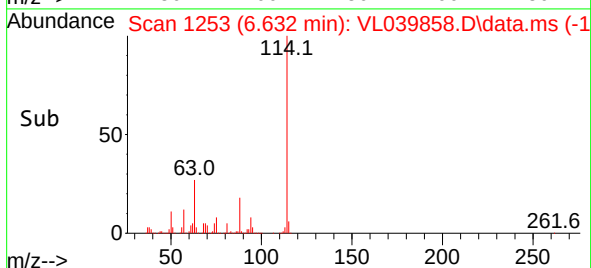
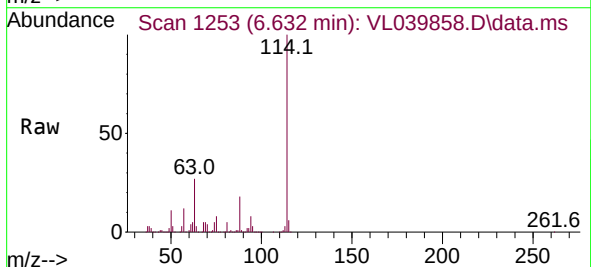
Instrument :
MSVOA_L
ClientSampleId :
IA-9E

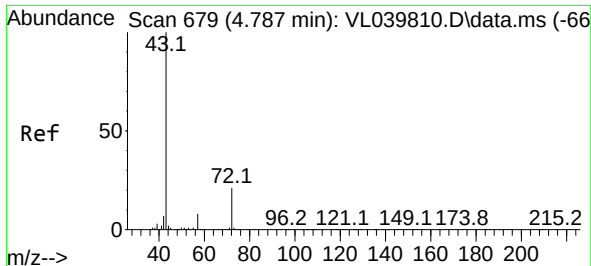
Tgt Ion: 84 Resp: 5608
Ion Ratio Lower Upper
84 100
56 0.0 114.8 172.2#
41 132.5 68.6 103.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.013 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion: 114 Resp: 2189962
Ion Ratio Lower Upper
114 100
63 27.6 19.8 29.6
88 19.5 14.4 21.6

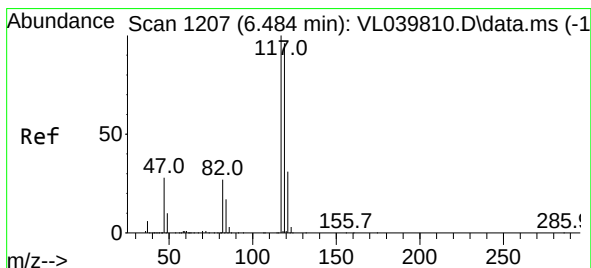
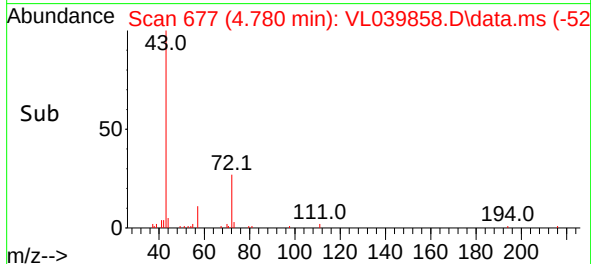
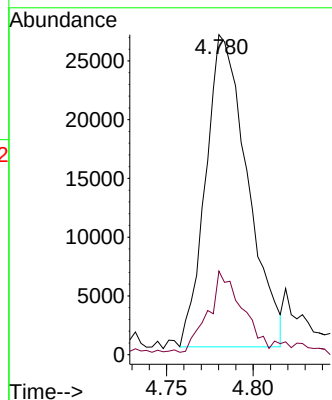
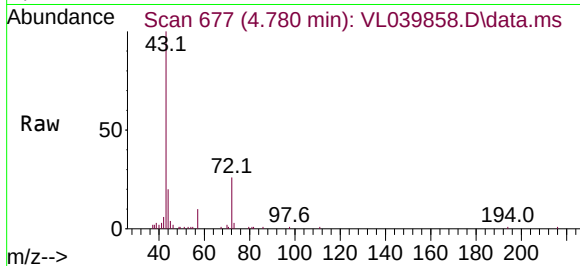




#34
2-Butanone
Concen: 0.493 ppbv
RT: 4.780 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

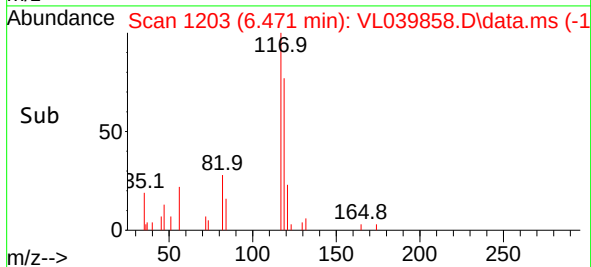
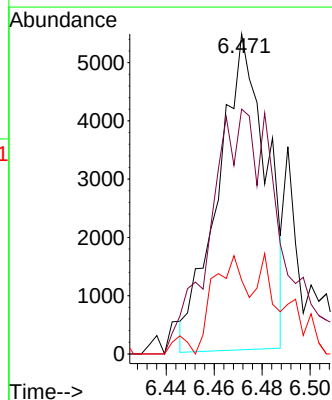
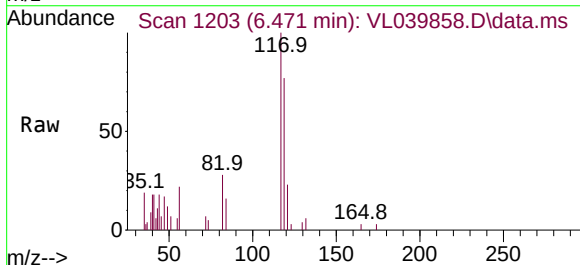
Instrument :
MSVOA_L
ClientSampleId :
IA-9E

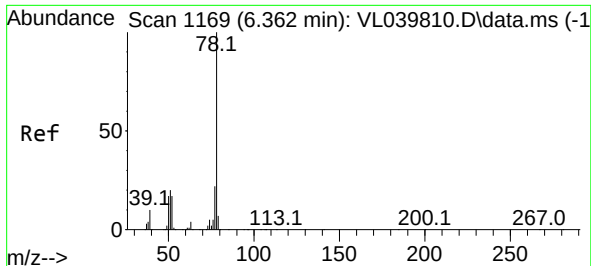
Tgt Ion: 43 Resp: 44524
Ion Ratio Lower Upper
43 100
72 28.6 17.5 26.3#



#35
Carbon Tetrachloride
Concen: 0.059 ppbv
RT: 6.471 min Scan# 1203
Delta R.T. -0.013 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion: 117 Resp: 7580
Ion Ratio Lower Upper
117 100
119 72.0 76.5 114.7#
121 19.4 25.2 37.8#





#36

Benzene

Concen: 0.094 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. -0.010 min

Lab File: VL039858.D

Acq: 9 Nov 2022 21:30

Instrument :

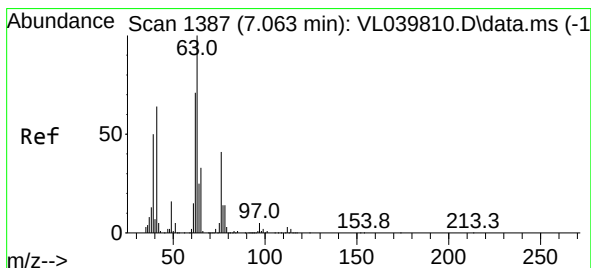
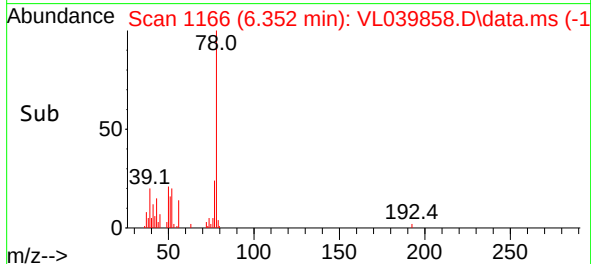
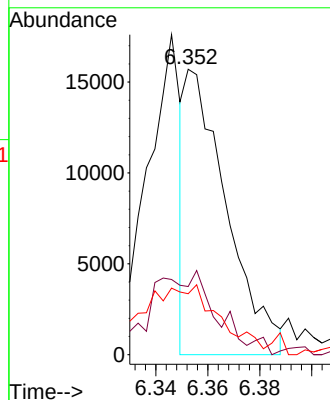
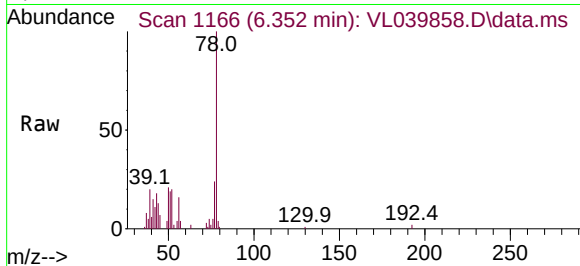
MSVOA_L

ClientSampleId :

IA-9E

Tgt Ion: 78 Resp: 17396

Ion	Ratio	Lower	Upper
78	100		
77	24.8	17.4	26.2
50	15.0	13.9	20.9



#39

1,2-Dichloropropane

Concen: 8.134 ppbv

RT: 6.632 min Scan# 1253

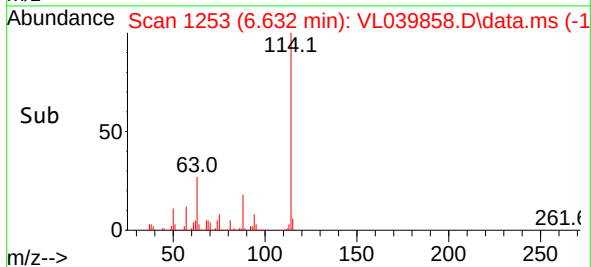
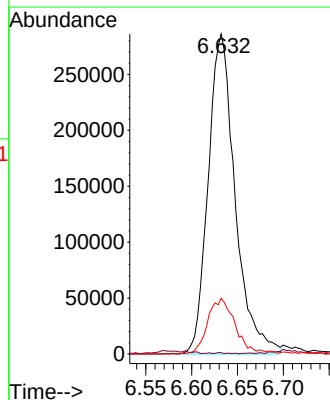
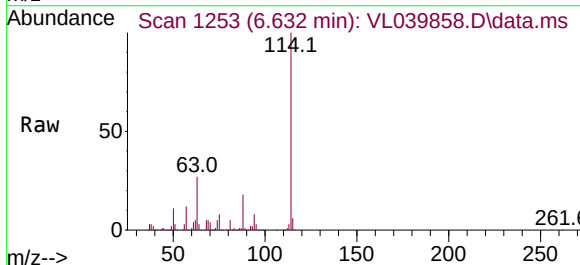
Delta R.T. -0.431 min

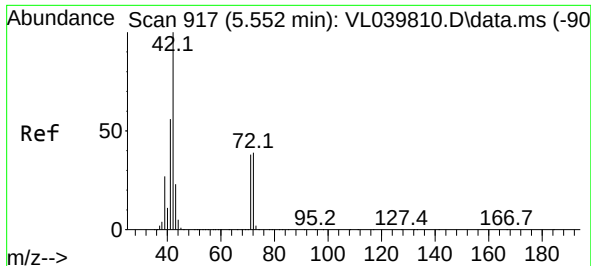
Lab File: VL039858.D

Acq: 9 Nov 2022 21:30

Tgt Ion: 63 Resp: 585417

Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.0	76.4#
62	17.2	56.6	85.0#





#41

Tetrahydrofuran

Concen: 0.042 ppbv

RT: 5.558 min Scan# 917

Delta R.T. 0.007 min

Lab File: VL039858.D

Acq: 9 Nov 2022 21:30

Instrument :

MSVOA_L

ClientSampleId :

IA-9E

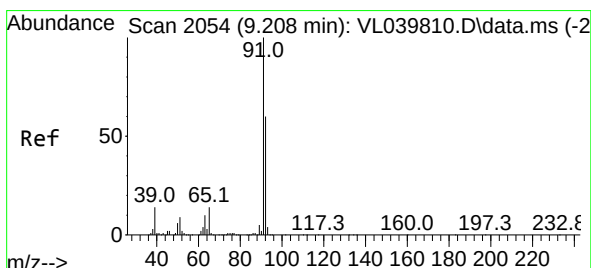
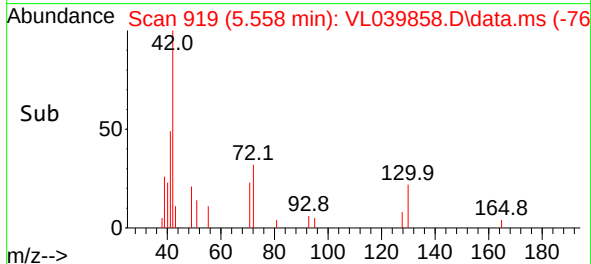
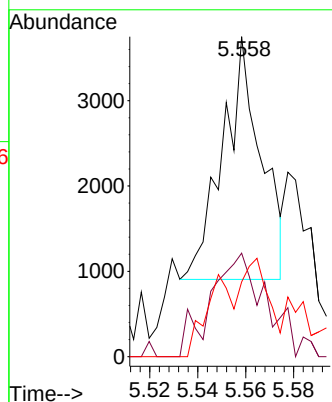
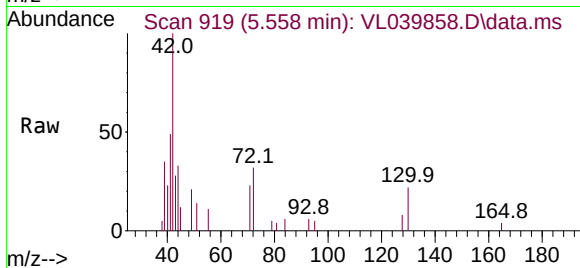
Tgt Ion: 42 Resp: 3152

Ion Ratio Lower Upper

42 100

72 62.7 31.4 47.2#

71 77.7 31.5 47.3#



#53

Toluene

Concen: 1.327 ppbv

RT: 9.195 min Scan# 2050

Delta R.T. -0.013 min

Lab File: VL039858.D

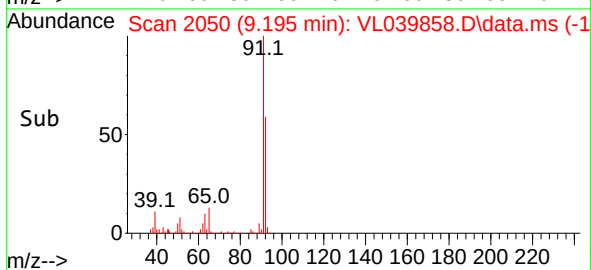
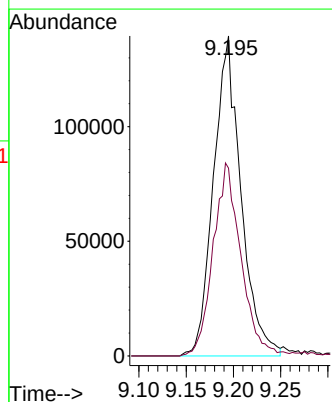
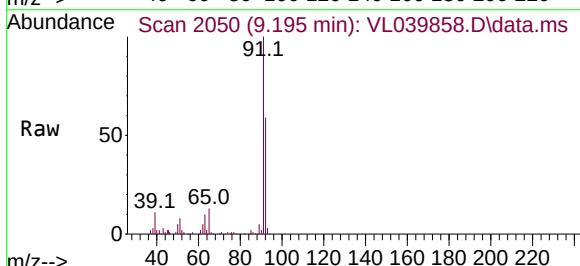
Acq: 9 Nov 2022 21:30

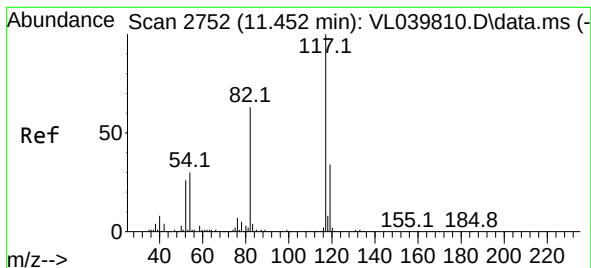
Tgt Ion: 91 Resp: 281239

Ion Ratio Lower Upper

91 100

92 62.6 49.6 74.4

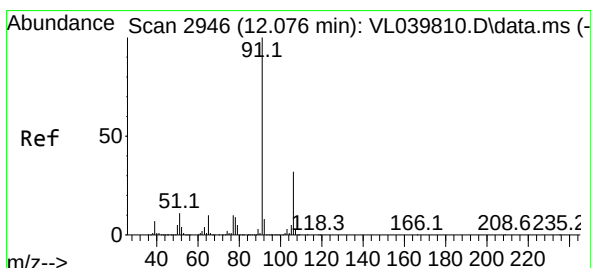
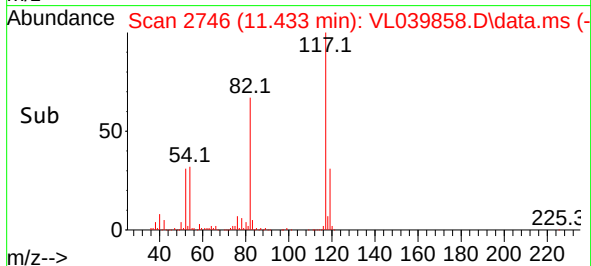
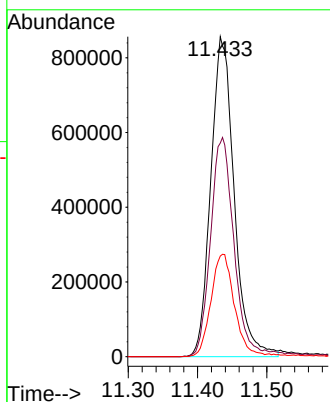
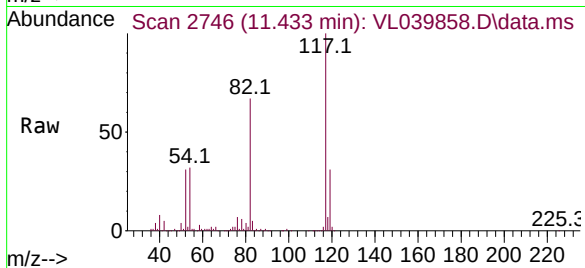




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

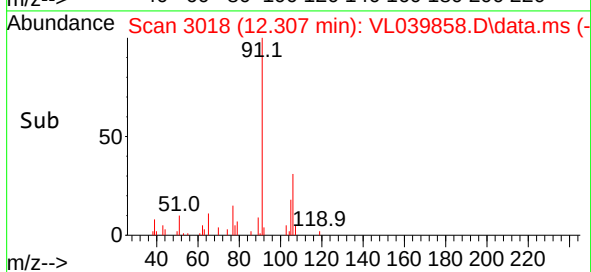
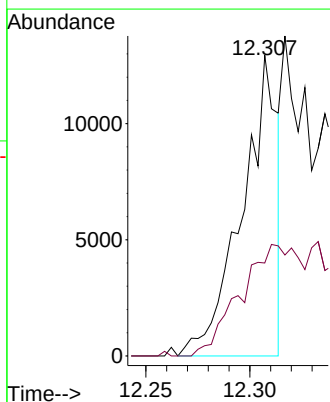
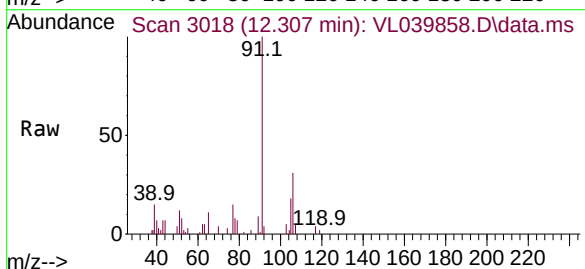
Instrument :
MSVOA_L
ClientSampleId :
IA-9E

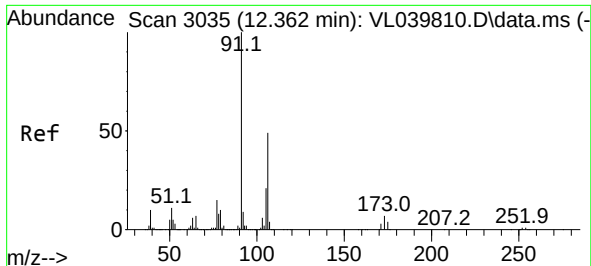
Tgt Ion:117 Resp: 2004775
Ion Ratio Lower Upper
117 100
82 70.7 51.0 76.6
119 33.1 24.7 37.1



#58
Ethyl Benzene
Concen: 0.056 ppbv
RT: 12.307 min Scan# 3018
Delta R.T. 0.232 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion: 91 Resp: 15217
Ion Ratio Lower Upper
91 100
106 30.9 25.9 38.9





#59

m/p-Xylene

Concen: 0.048 ppbv

RT: 12.336 min Scan# 3035

Delta R.T. -0.026 min

Lab File: VL039858.D

Acq: 9 Nov 2022 21:30

Instrument :

MSVOA_L

ClientSampleId :

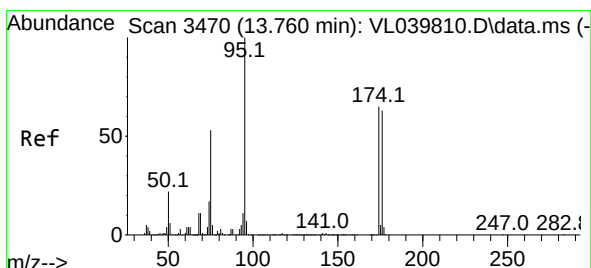
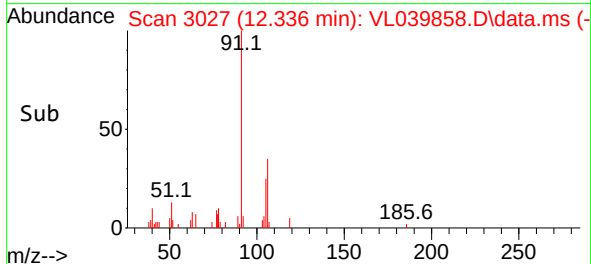
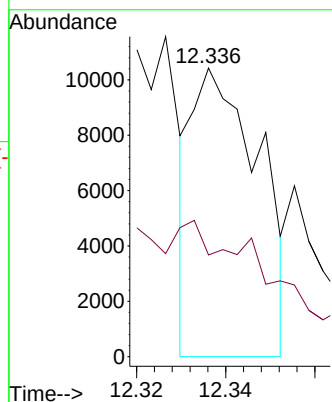
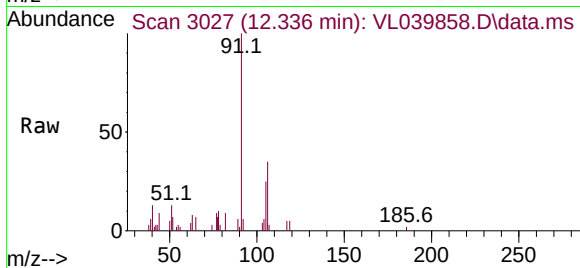
IA-9E

Tgt Ion: 91 Resp: 10938

Ion Ratio Lower Upper

91 100

106 167.0 37.6 56.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.823 ppbv

RT: 13.744 min Scan# 3465

Delta R.T. -0.016 min

Lab File: VL039858.D

Acq: 9 Nov 2022 21:30

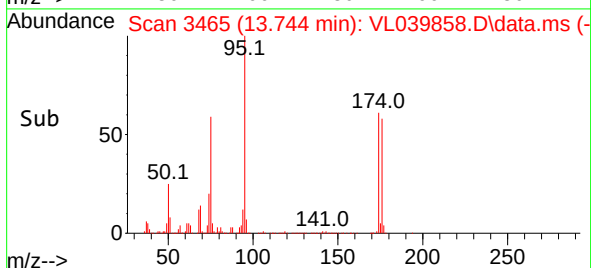
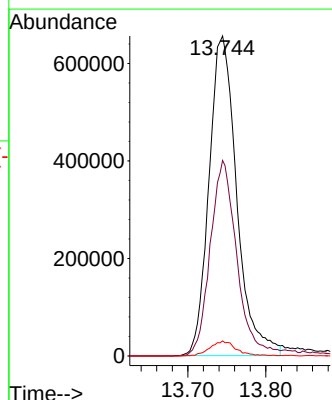
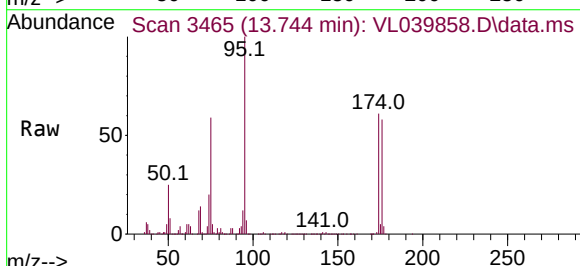
Tgt Ion: 95 Resp: 1624054

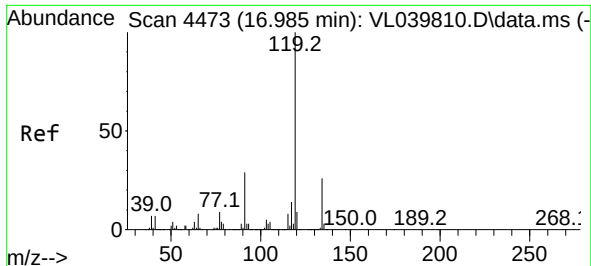
Ion Ratio Lower Upper

95 100

174 61.8 53.4 80.0

175 4.6 4.1 6.1

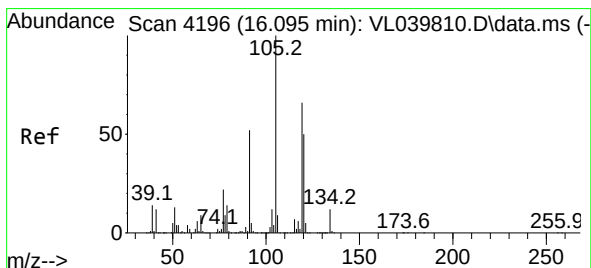
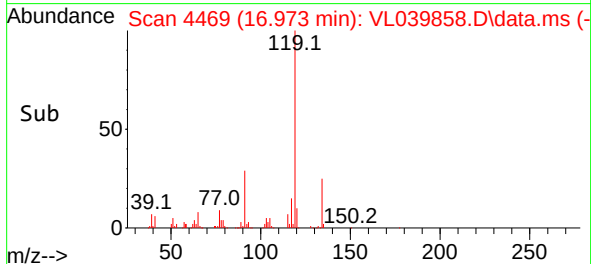
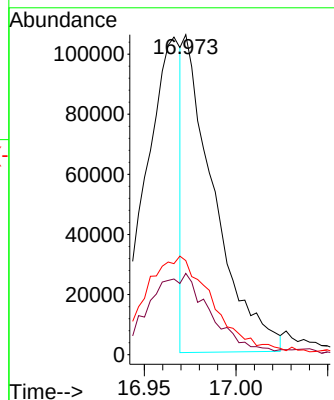
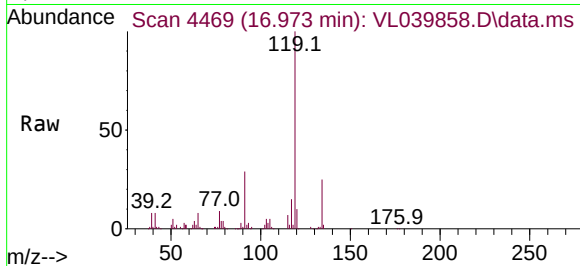




#69
p-Isopropyltoluene
Concen: 0.399 ppbv
RT: 16.973 min Scan# 4473
Delta R.T. -0.013 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Instrument :
MSVOA_L
ClientSampleId :
IA-9E

Tgt Ion:119 Resp: 123588
Ion Ratio Lower Upper
119 100
134 55.5 21.0 31.6#
91 74.0 22.8 34.2#



#74
1,2,4-Trimethylbenzene
Concen: 0.047 ppbv
RT: 16.076 min Scan# 4190
Delta R.T. -0.019 min
Lab File: VL039858.D
Acq: 9 Nov 2022 21:30

Tgt Ion:105 Resp: 10764
Ion Ratio Lower Upper
105 100
120 21.3 40.2 60.4#
91 14.7 42.6 64.0#
77 25.5 17.8 26.8

