

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061422\
 Data File : VL039287.D
 Acq On : 14 Jun 2022 19:25
 Operator : SY/AP
 Sample : N3306-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Quant Time: Jun 15 03:18:49 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1329271	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3721607	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3260601	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2501326	9.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

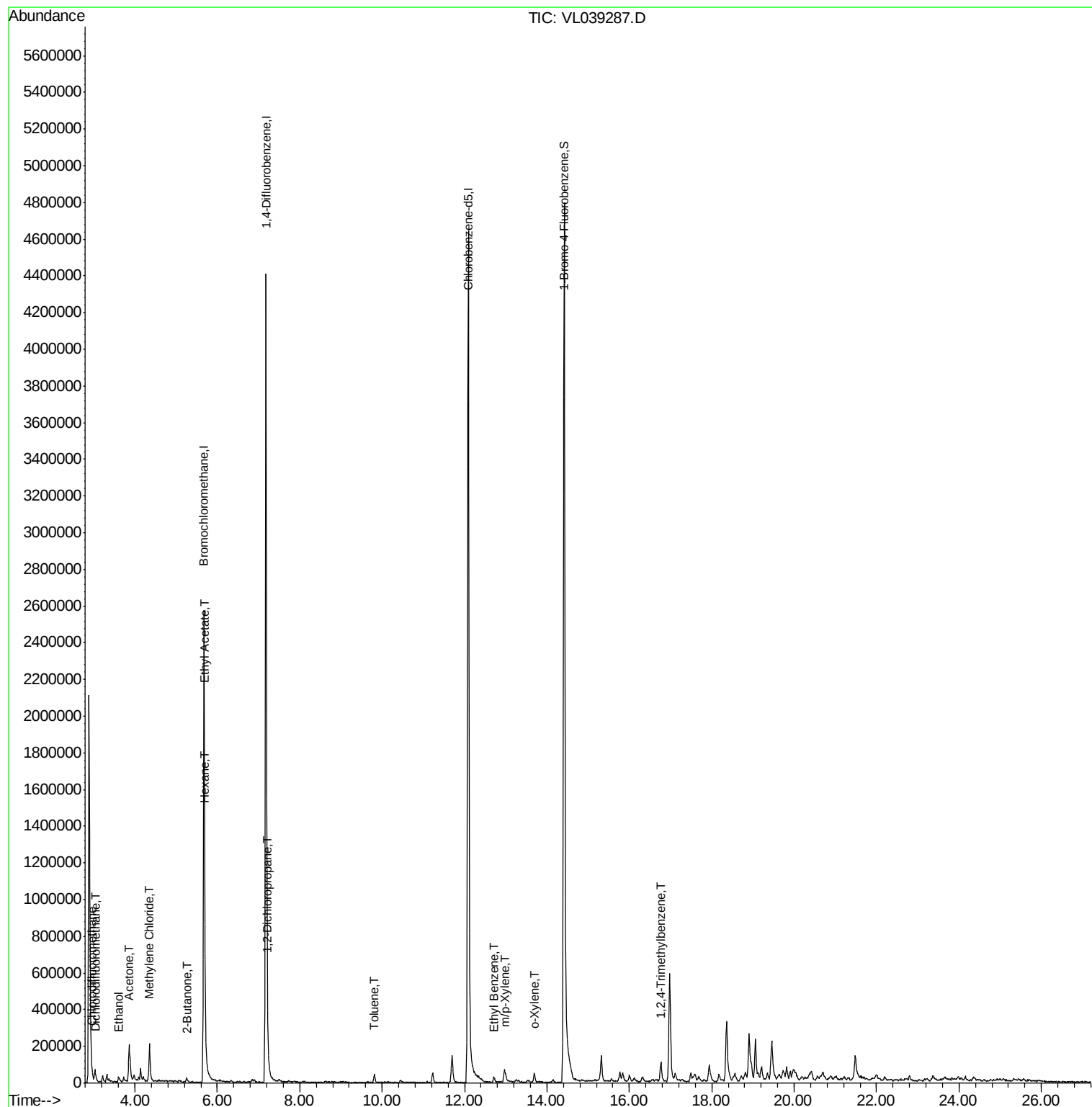
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	9388	0.040	ppbv	95
3) Chlorodifluoromethane	2.97	51	14805	0.088	ppbv #	66
13) Ethanol	3.61	45	16702	4.153	ppbv #	100
15) Acetone	3.85	43	286948	2.072	ppbv	96
20) Methylene Chloride	4.35	84	77604	1.330	ppbv	98
25) Ethyl Acetate	5.69	43	40206	0.129	ppbv #	78
26) Hexane	5.70	57	61819	0.451	ppbv #	39
34) 2-Butanone	5.26	43	24628	0.122	ppbv	92
39) 1,2-Dichloropropane	7.23	63	17868	0.149	ppbv #	20
53) Toluene	9.81	91	31940	0.092	ppbv	89
58) Ethyl Benzene	12.71	91	18157	0.040	ppbv	90
59) m/p-Xylene	12.99	91	21822	0.055	ppbv #	33
60) o-Xylene	13.70	91	31237	0.084	ppbv	94
74) 1,2,4-Trimethylbenzene	16.75	105	29685	0.068	ppbv #	63

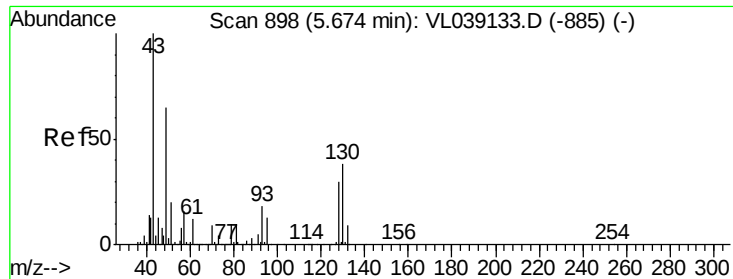
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SS-1DL

Acq: 14 Jun 2022 19:25

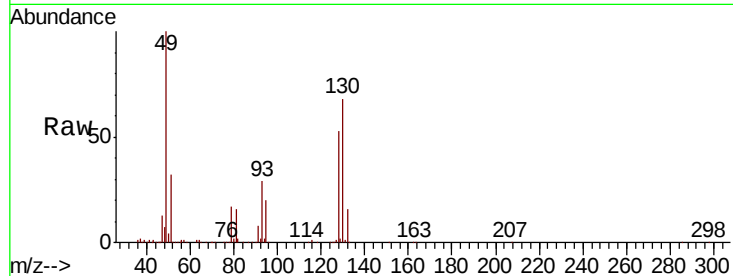
Tot Ion: 49 Resp: 1329271

Ion Ratio Lower Upper

49 100

128 54.7 24.7 74.1

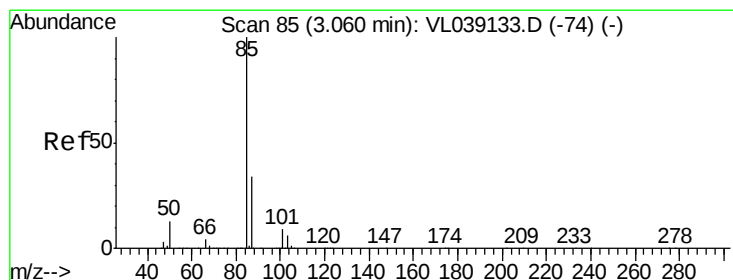
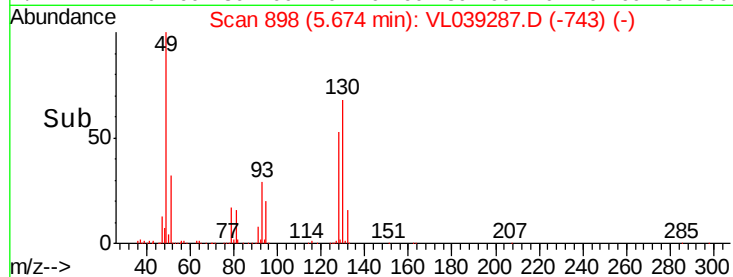
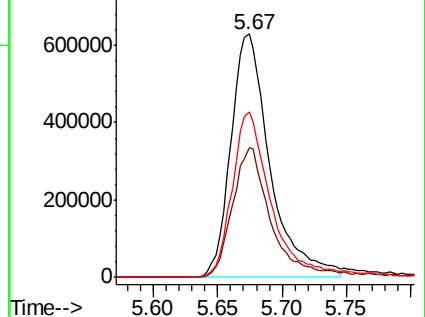
130 70.6 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.040 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL039287.D

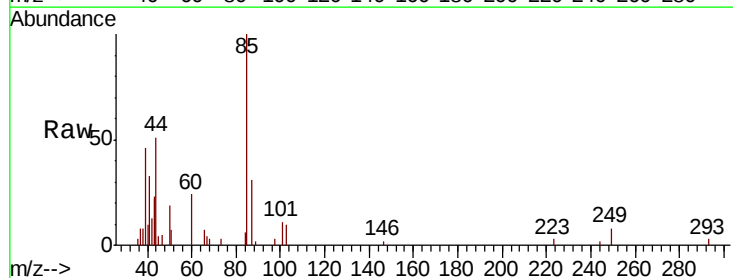
Acq: 14 Jun 2022 19:25

Tgt Ion: 85 Resp: 9388

Ion Ratio Lower Upper

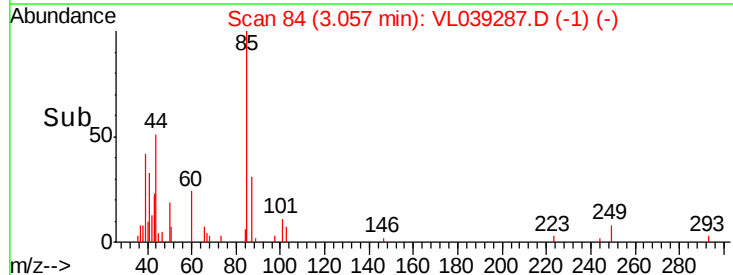
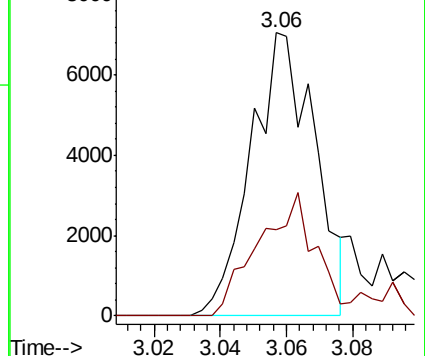
85 100

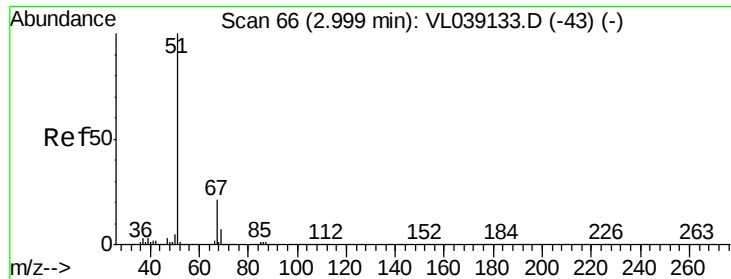
87 30.5 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.088 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

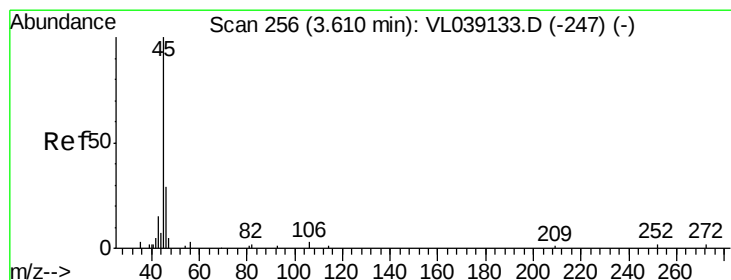
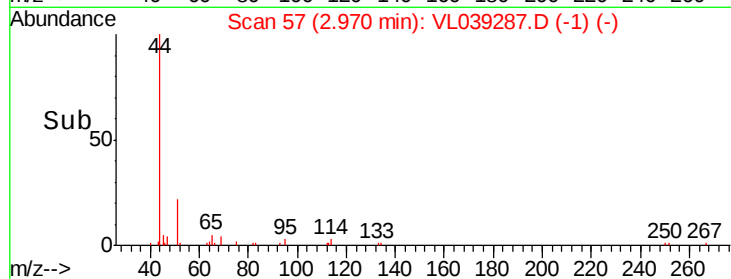
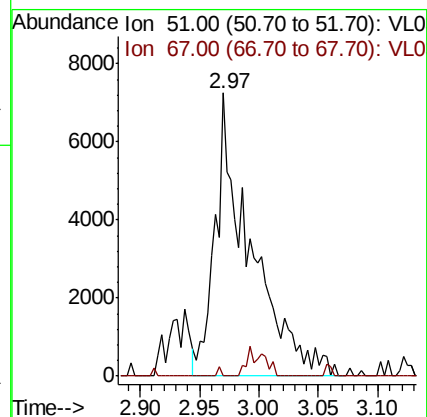
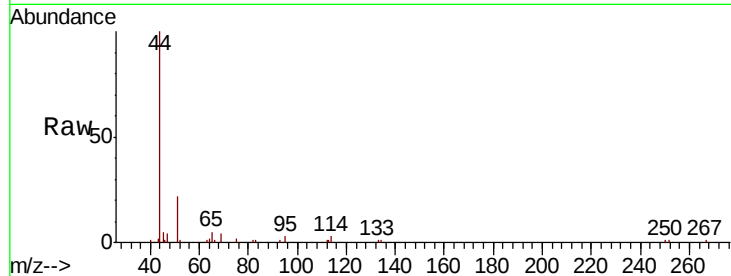
Acq: 14 Jun 2022 19:25

Tot Ion: 51 Resp: 14805

Ion Ratio Lower Upper

51 100

67 4.8 16.2 24.4#



#13

Ethanol

Concen: 4.153 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL039287.D

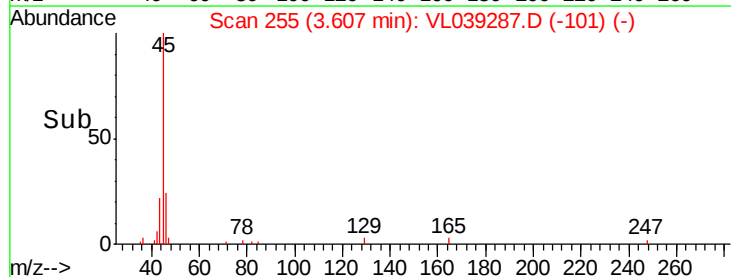
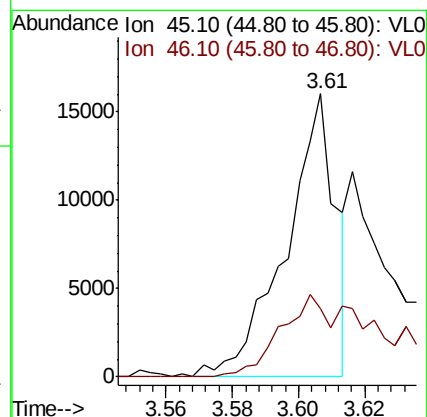
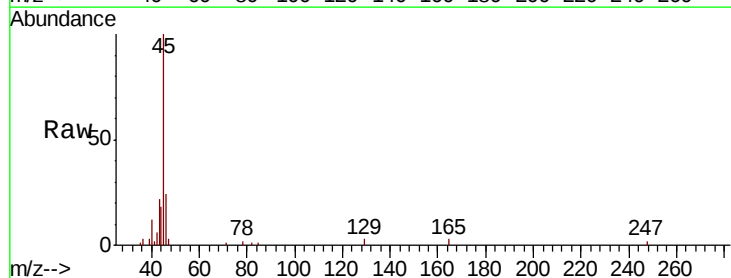
Acq: 14 Jun 2022 19:25

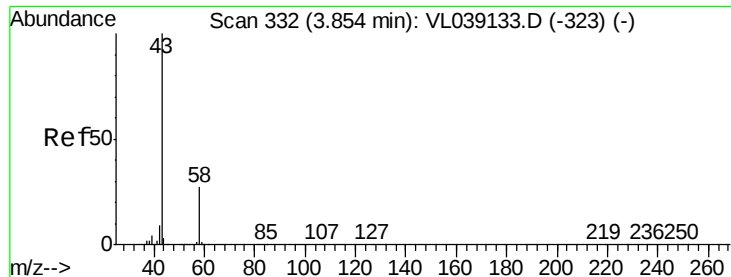
Tgt Ion: 45 Resp: 16702

Ion Ratio Lower Upper

45 100

46 69.6 0.0 0.0#





#15

Acetone

Concen: 2.072 ppbv

RT: 3.85 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: SS-IDL

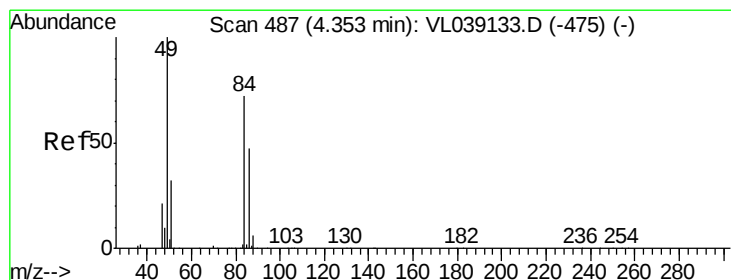
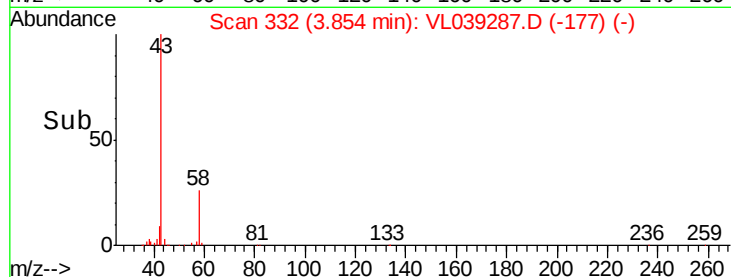
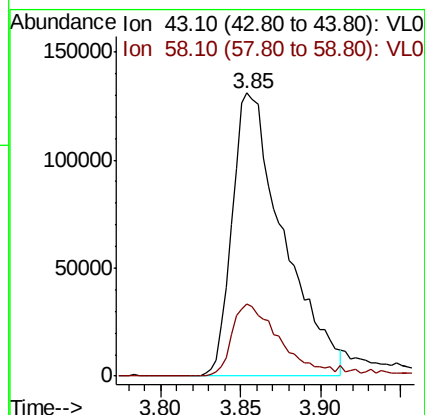
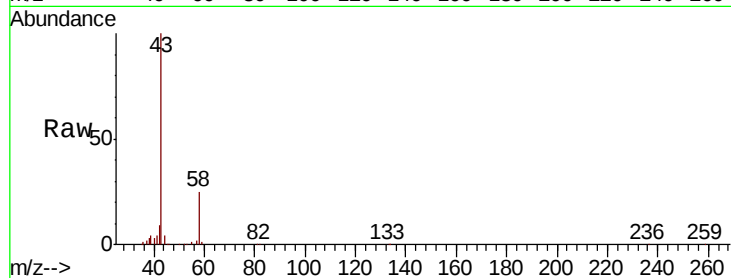
Acq: 14 Jun 2022 19:25

Tot Ion: 43 Resp: 286948

Ion Ratio Lower Upper

43 100

58 26.0 22.5 33.7



#20

Methylene Chloride

Concen: 1.330 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL039287.D

Acq: 14 Jun 2022 19:25

Tgt Ion: 84 Resp: 77604

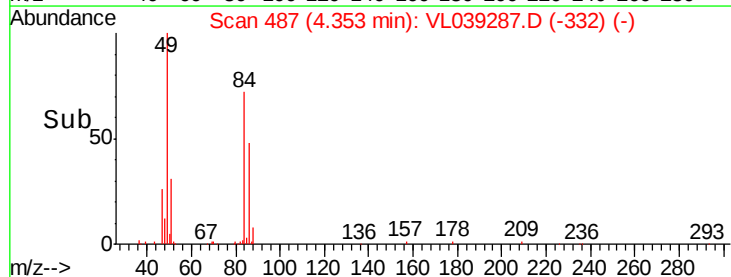
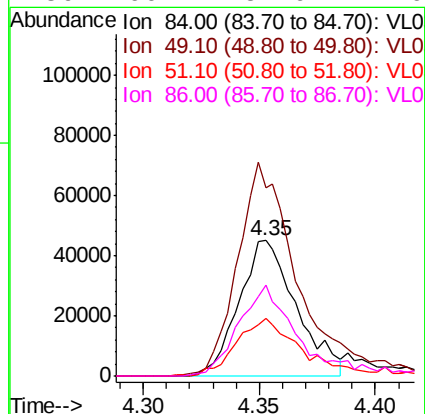
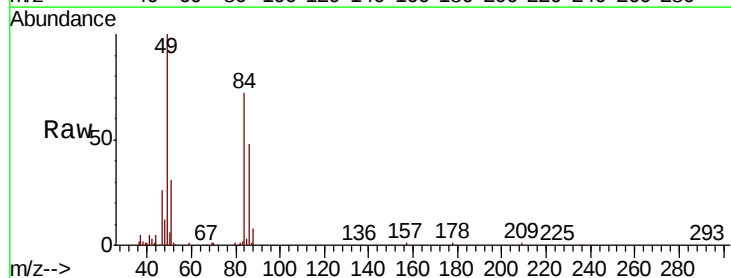
Ion Ratio Lower Upper

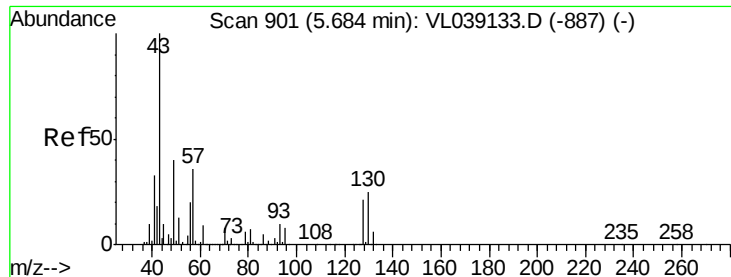
84 100

49 137.1 111.1 166.7

51 42.9 35.3 52.9

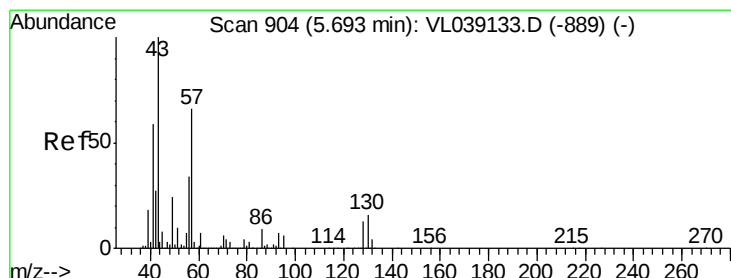
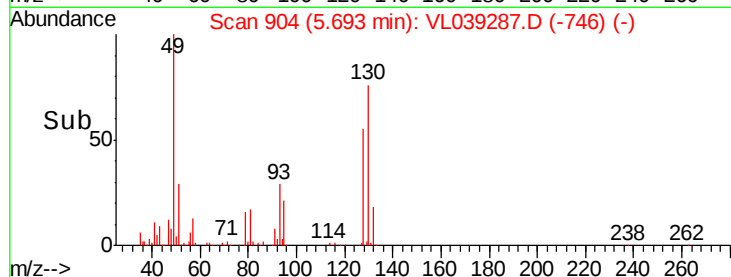
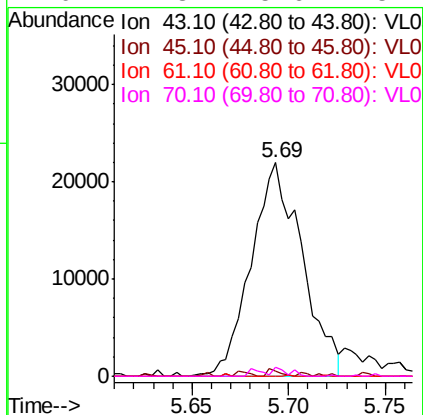
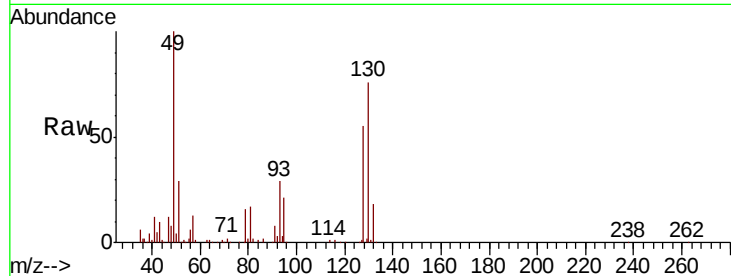
86 66.4 51.9 77.9





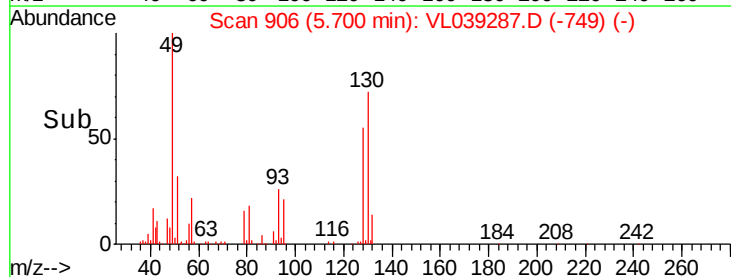
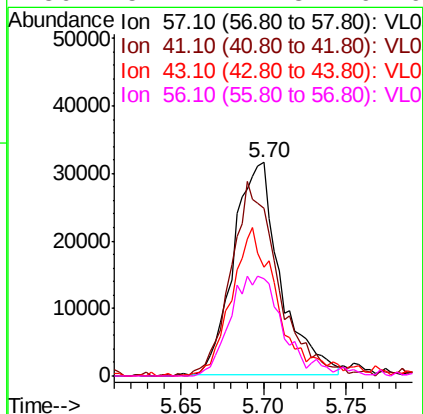
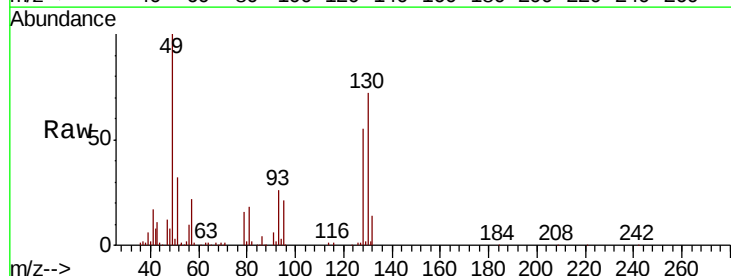
#25
Ethyl Acetate
Concen: 0.129 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 19:25

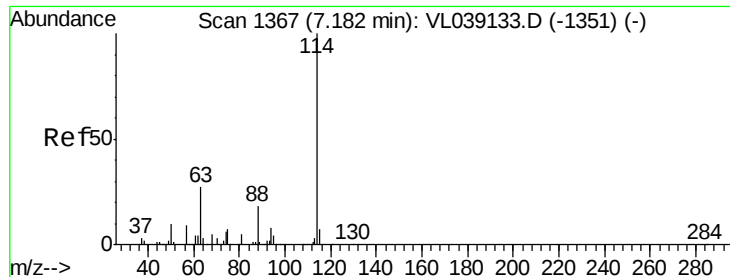
Tot Ion:	43	Resp:	40206
Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.2	12.2#
61	0.0	8.4	12.6#
70	2.3	5.6	8.4#



#26
Hexane
Concen: 0.451 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL039287.D
Acq: 14 Jun 2022 19:25

Tgt Ion:	57	Resp:	61819
Ion	Ratio	Lower	Upper
57	100		
41	94.8	72.4	108.6
43	73.7	187.0	280.6#
56	54.2	41.8	62.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Jun 2022 19:25 SS-1DL

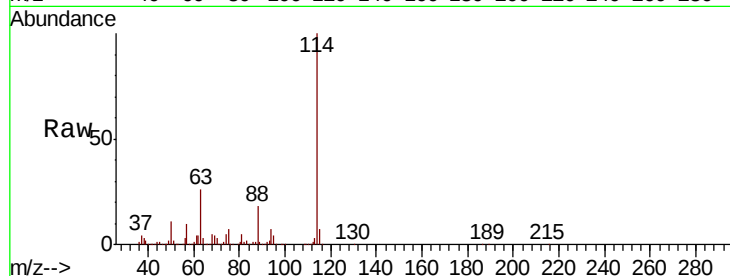
Tot Ion:114 Resp: 3721607

Ion Ratio Lower Upper

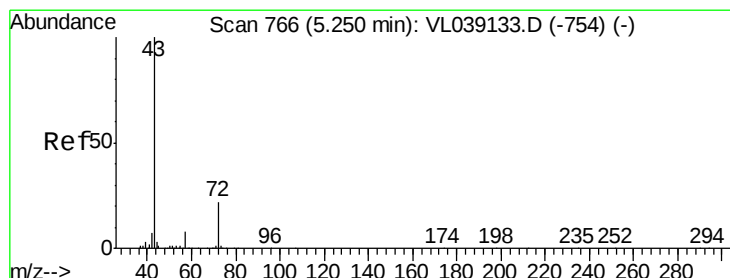
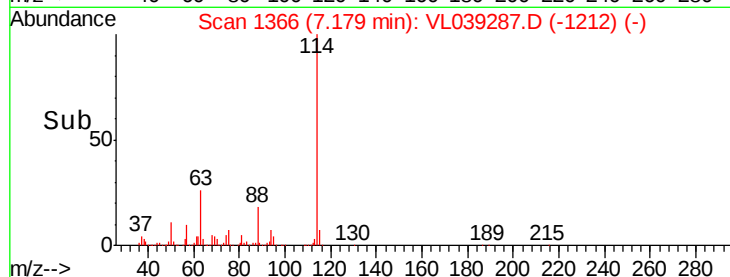
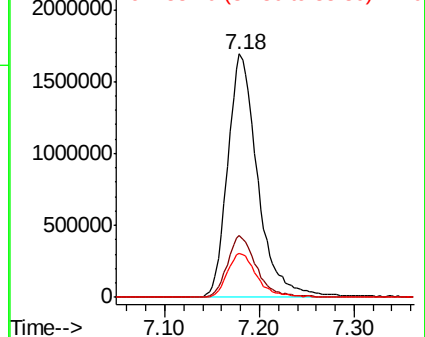
114 100

63 25.1 21.7 32.5

88 18.2 14.8 22.2



Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.122 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.01 min

Lab File: VL039287.D

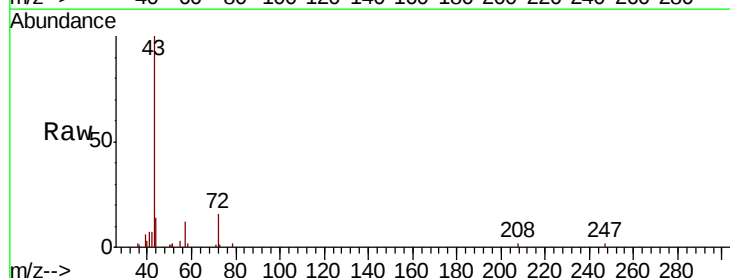
Acq: 14 Jun 2022 19:25

Tgt Ion: 43 Resp: 24628

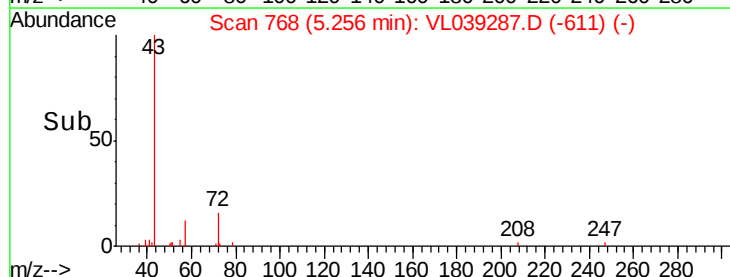
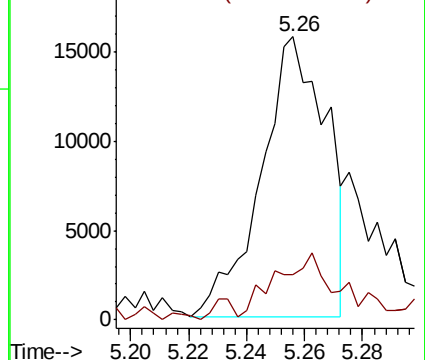
Ion Ratio Lower Upper

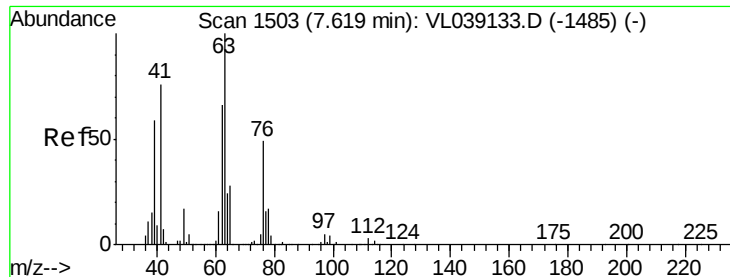
43 100

72 26.6 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 0.149 ppbv

RT: 7.23 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Jun 2022 19:25 SS-1DL

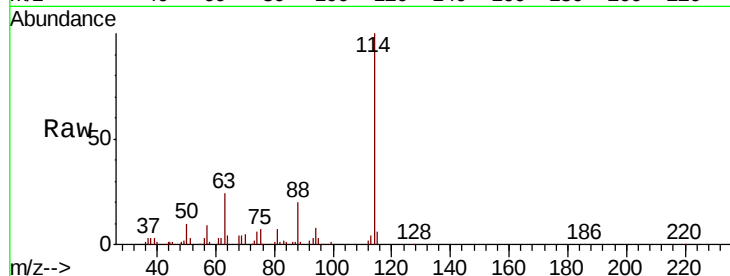
Tot Ion: 63 Resp: 17868

Ion Ratio Lower Upper

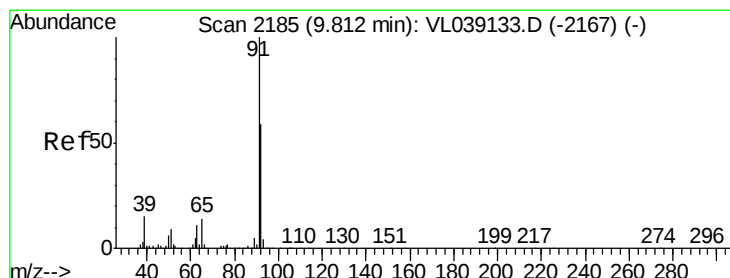
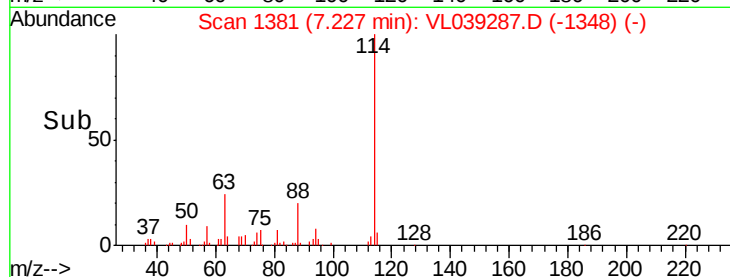
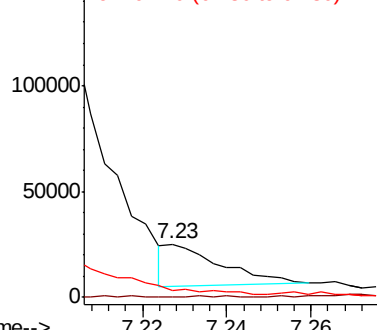
63 100

41 0.0 60.8 91.2#

62 9.9 52.9 79.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.092 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL039287.D

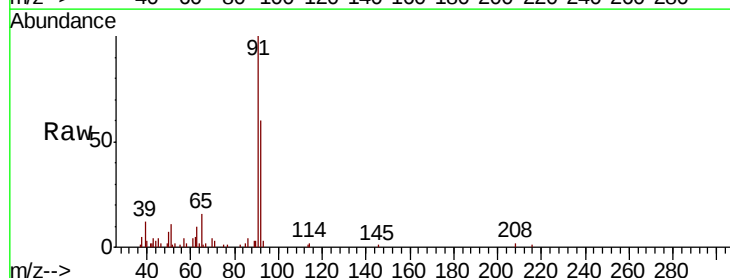
Acq: 14 Jun 2022 19:25

Tgt Ion: 91 Resp: 31940

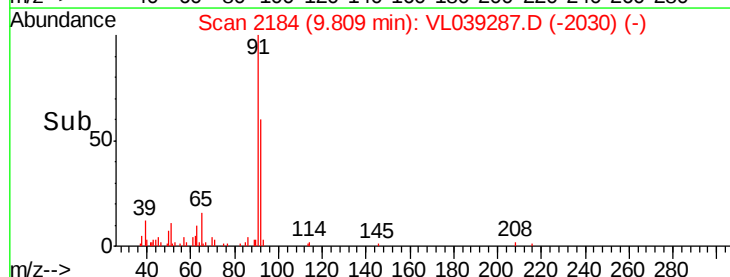
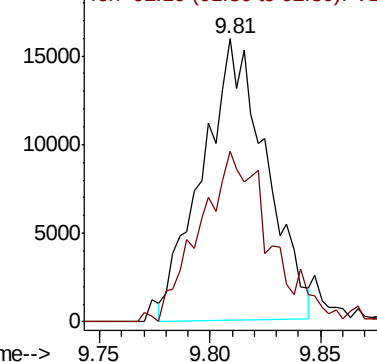
Ion Ratio Lower Upper

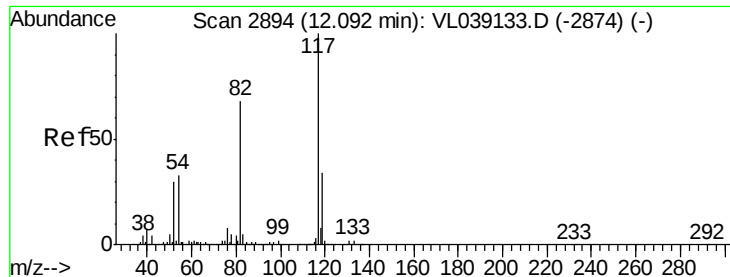
91 100

92 68.1 48.1 72.1



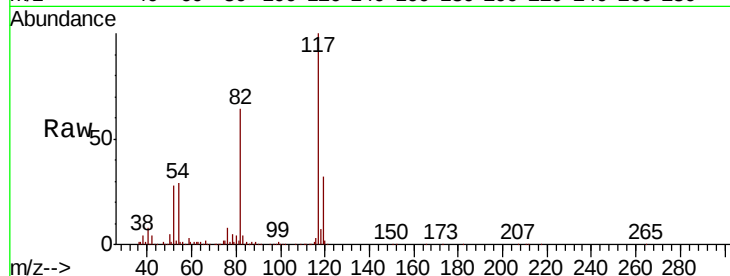
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



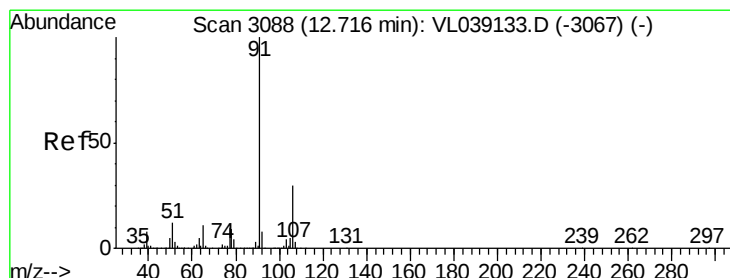
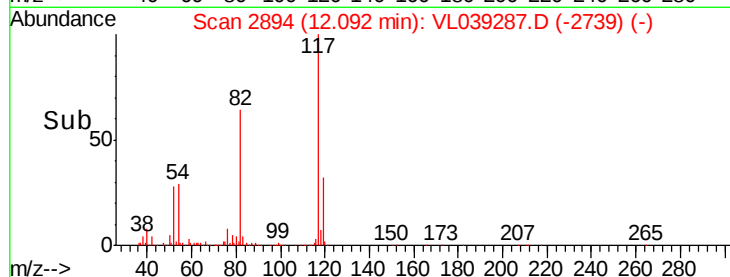
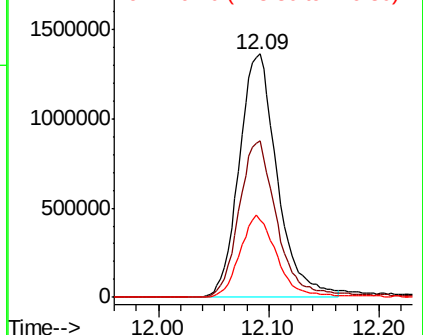


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Jun 2022 19:25

Tot Ion:117 Resp: 3260601
Ion Ratio Lower Upper
117 100
82 65.6 55.1 82.7
119 34.0 24.7 37.1

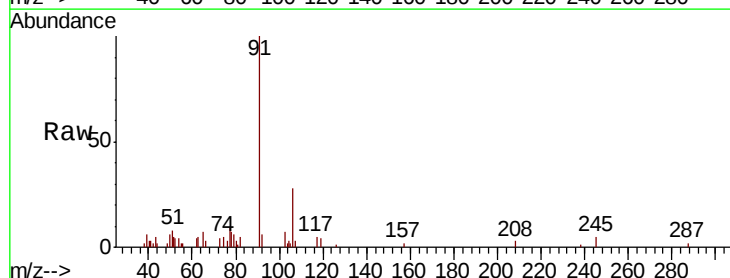


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

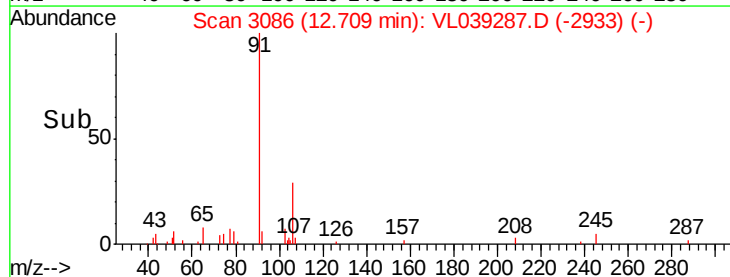
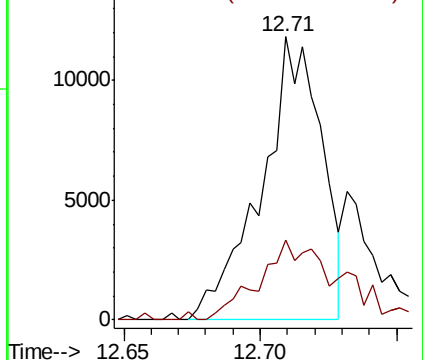


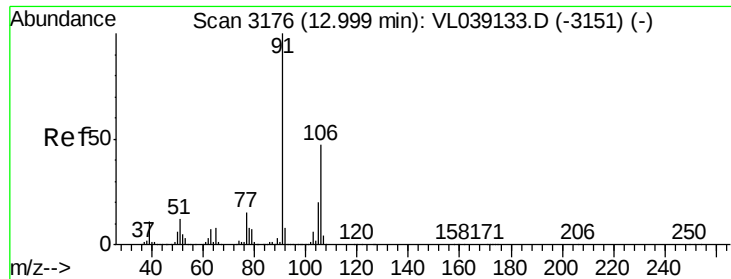
#58
Ethyl Benzene
Concen: 0.040 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL039287.D
Acq: 14 Jun 2022 19:25

Tgt Ion: 91 Resp: 18157
Ion Ratio Lower Upper
91 100
106 25.0 24.2 36.4



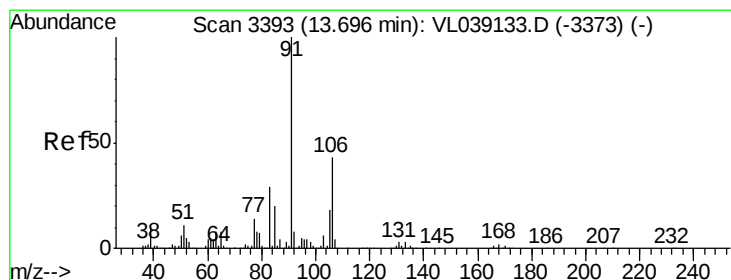
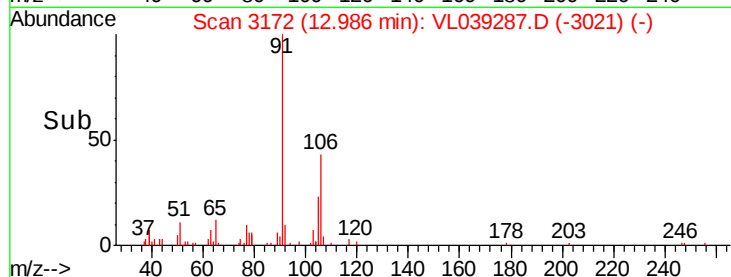
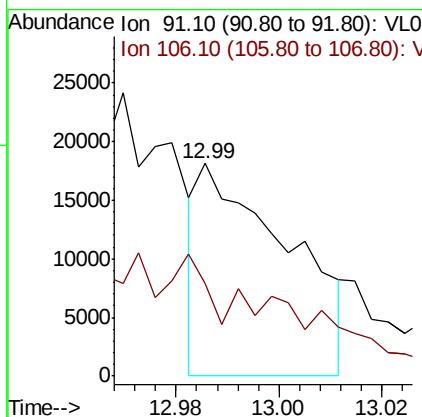
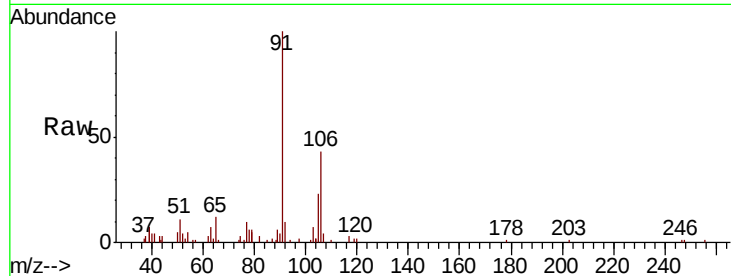
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





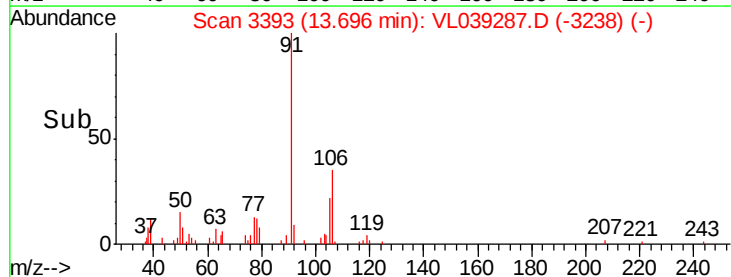
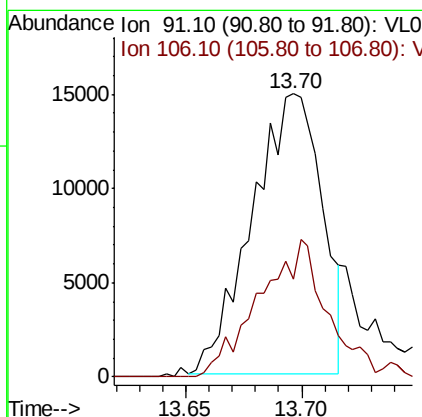
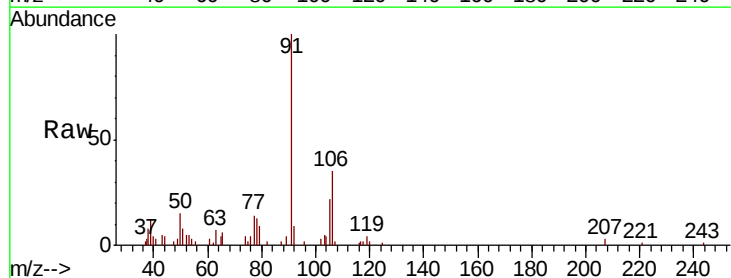
#59
m/p-Xylene
Concen: 0.055 ppbv
RT: 12.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 19:25

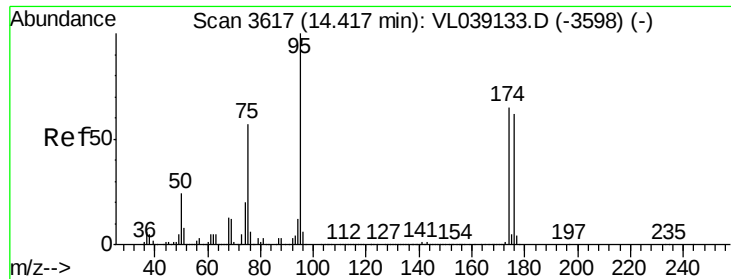
Tot Ion: 91 Resp: 21822
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#



#60
o-Xylene
Concen: 0.084 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL039287.D
Acq: 14 Jun 2022 19:25

Tgt Ion: 91 Resp: 31237
Ion Ratio Lower Upper
91 100
106 48.3 22.3 66.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.279 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Jun 2022 19:25

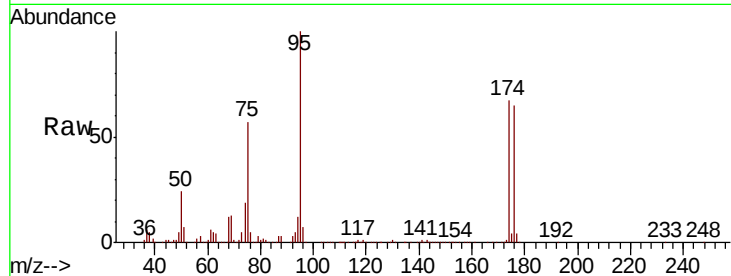
Tot Ion: 95 Resp: 2501326

Ion Ratio Lower Upper

95 100

174 72.0 53.8 80.8

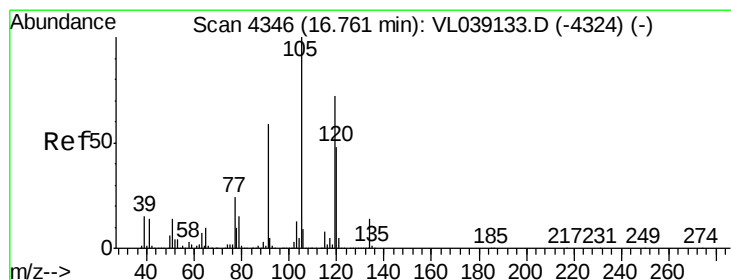
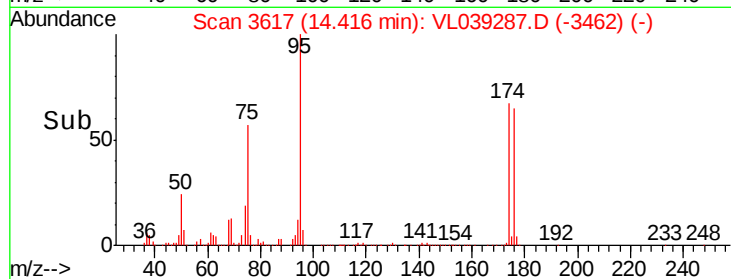
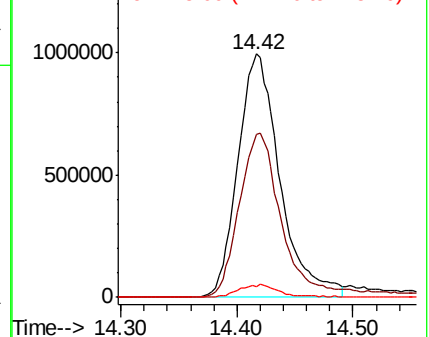
175 5.3 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.068 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.01 min

Lab File: VL039287.D

Acq: 14 Jun 2022 19:25

Tgt Ion: 105 Resp: 29685

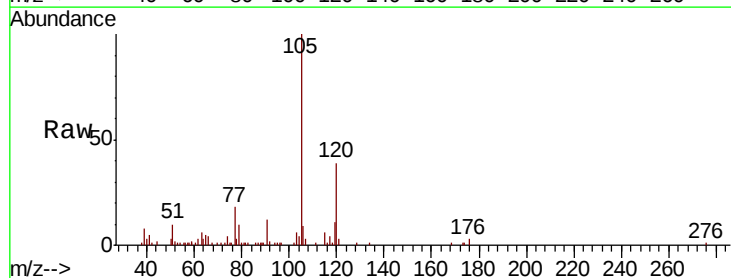
Ion Ratio Lower Upper

105 100

120 38.6 38.1 57.1

91 9.4 47.4 71.0#

77 18.0 19.5 29.3#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

