

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061522\
 Data File : VL039315.D
 Acq On : 16 Jun 2022 4:04
 Operator : SY/AP
 Sample : N3338-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Quant Time: Jun 16 06:02:17 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	5.65	49	1375725	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3835911	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3436116	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	2625279	9.24	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.40%	

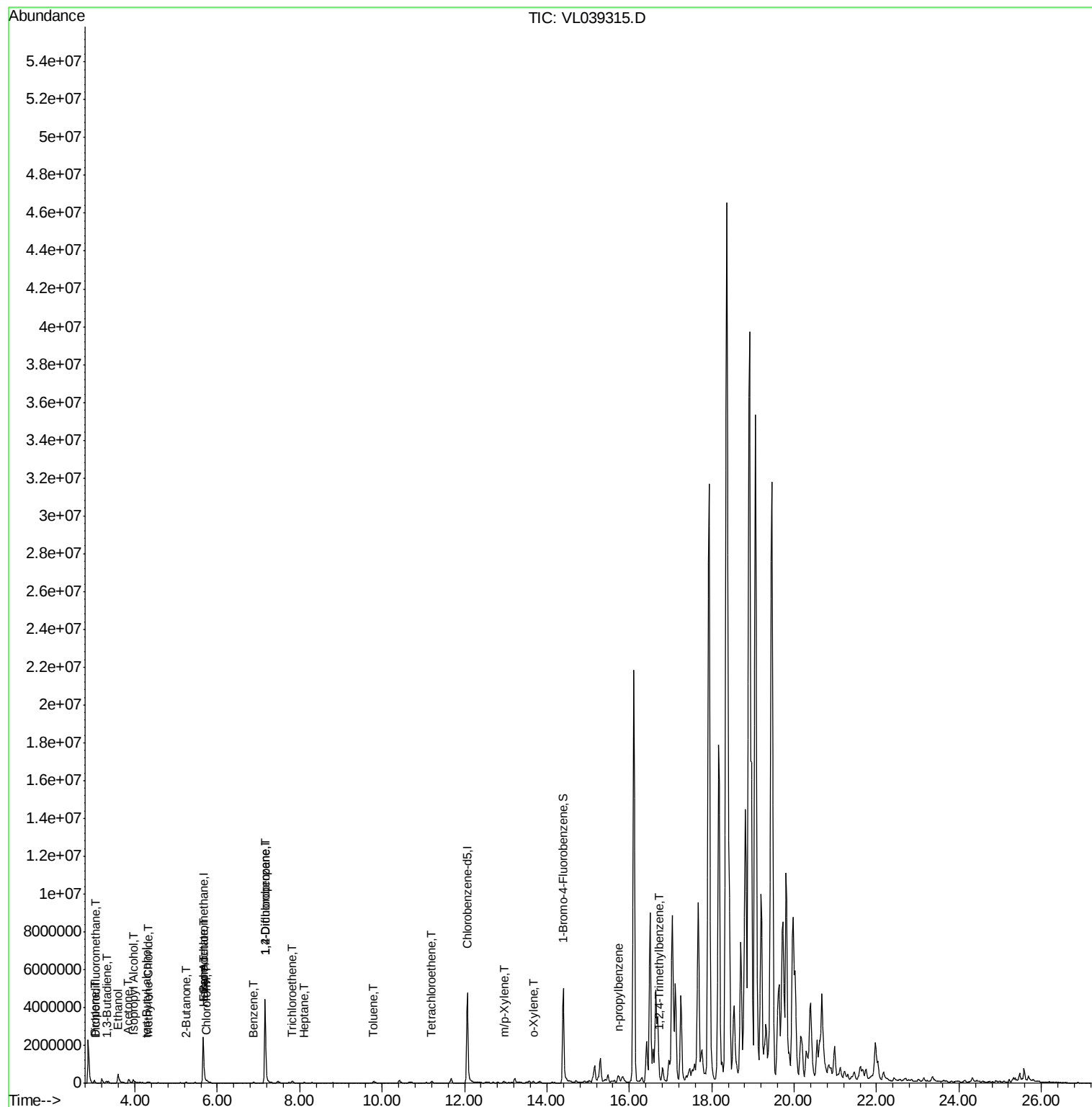
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	11813	0.049	ppbv	90
9) Propene	3.01	41	63900	0.837	ppbv	88
10) Heptane	8.10	43	7087	0.040	ppbv #	23
13) Ethanol	3.59	45	731952	175.845	ppbv #	100
15) Acetone	3.84	43	109948	0.767	ppbv #	24
16) 1,3-Butadiene	3.33	39	4447	0.058	ppbv #	1
17) tert-Butyl alcohol	4.29	59	13013	0.117	ppbv #	82
19) Isopropyl Alcohol	3.96	45	220195	3.276	ppbv #	92
20) Methylene Chloride	4.34	84	18729	0.310	ppbv	95
25) Ethyl Acetate	5.67	43	23228	0.072	ppbv #	89
26) Hexane	5.68	57	35300	0.249	ppbv #	44
29) Chloroform	5.74	83	44553	0.187	ppbv	89
34) 2-Butanone	5.23	43	12247	0.059	ppbv #	1
36) Benzene	6.88	78	12531	0.040	ppbv	96
38) Trichloroethene	7.82	130	25376	0.177	ppbv	89
39) 1,2-Dichloropropane	7.16	63	933222	7.534	ppbv #	23
52) Tetrachloroethene	11.20	164	17120	0.141	ppbv #	84
53) Toluene	9.79	91	60266	0.168	ppbv	94
59) m/p-Xylene	12.97	91	16029	0.038	ppbv #	33
60) o-Xylene	13.67	91	30322	0.077	ppbv	87
64) n-propylbenzene	15.74	120	5631	0.039	ppbv	65
74) 1,2,4-Trimethylbenzene	16.74	105	71305	0.154	ppbv #	58

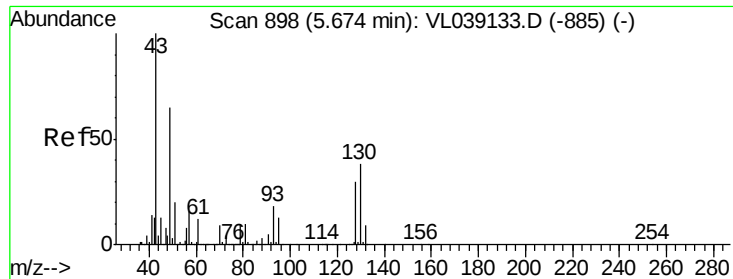
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: BFB

Acq: 16 Jun 2022 4:04

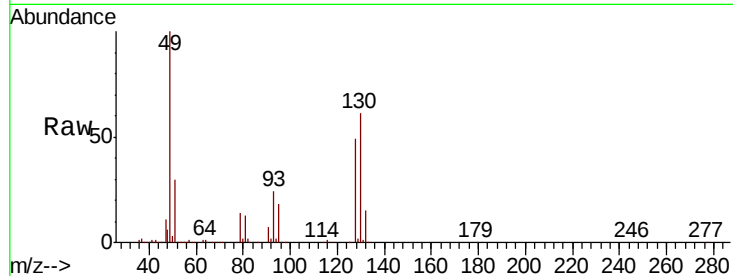
Tot Ion: 49 Resp: 1375725

Ion Ratio Lower Upper

49 100

128 51.4 24.7 74.1

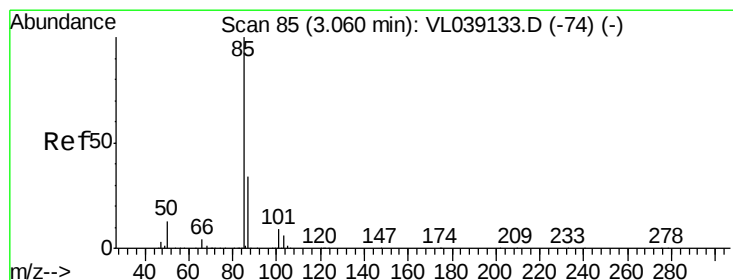
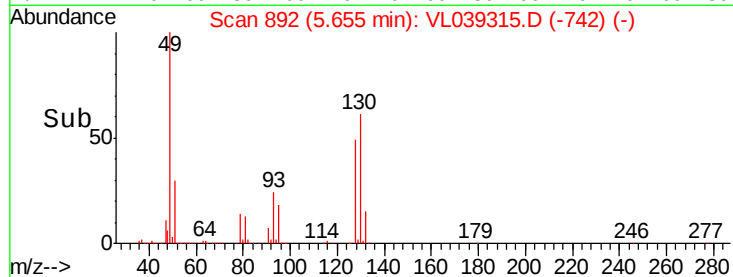
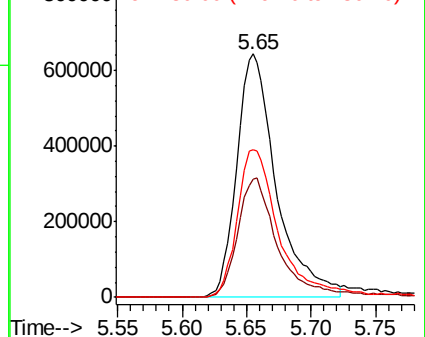
130 65.3 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.049 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039315.D

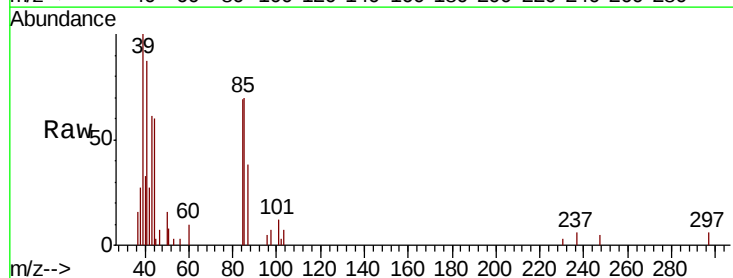
Acq: 16 Jun 2022 4:04

Tgt Ion: 85 Resp: 11813

Ion Ratio Lower Upper

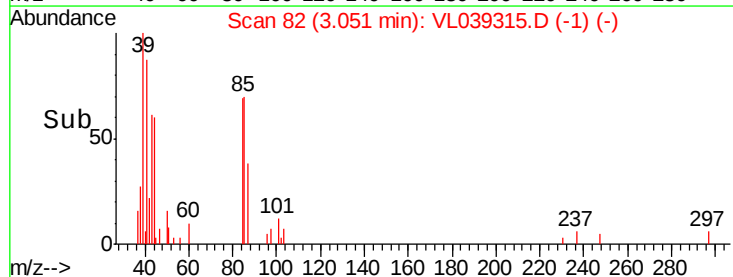
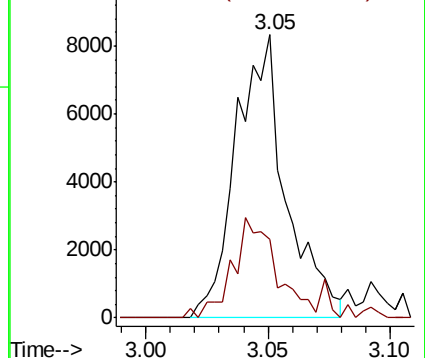
85 100

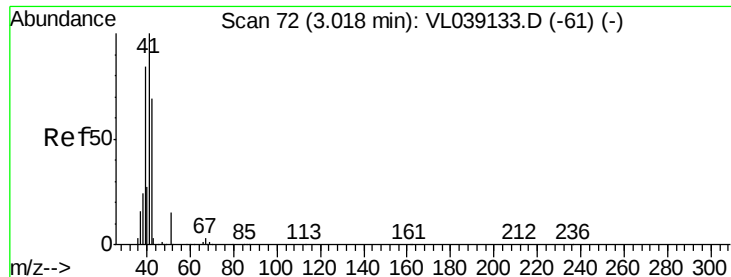
87 27.7 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.837 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

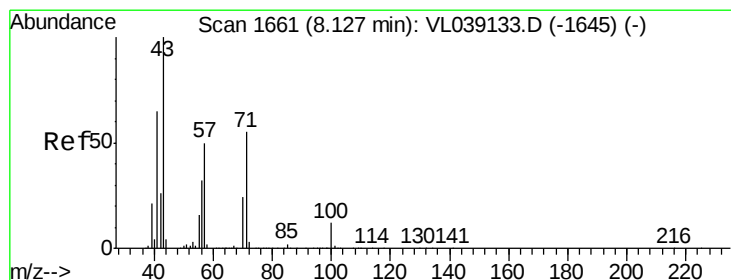
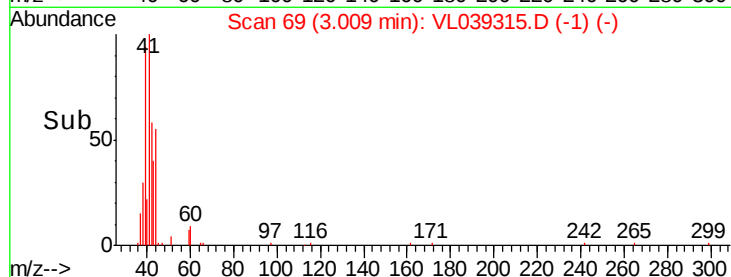
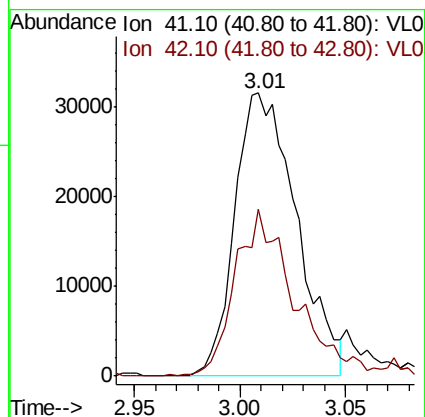
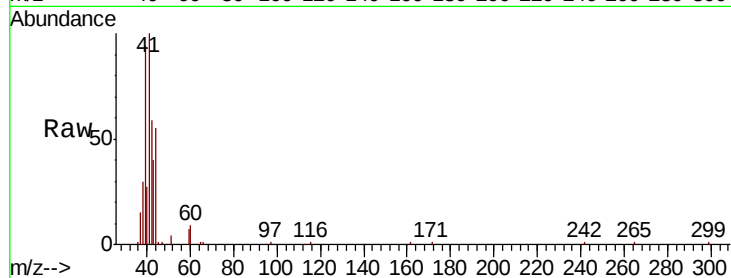
Acq: 16 Jun 2022 4:04

Tot Ion: 41 Resp: 63900

Ion Ratio Lower Upper

41 100

42 59.7 55.4 83.2



#10

Heptane

Concen: 0.040 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL039315.D

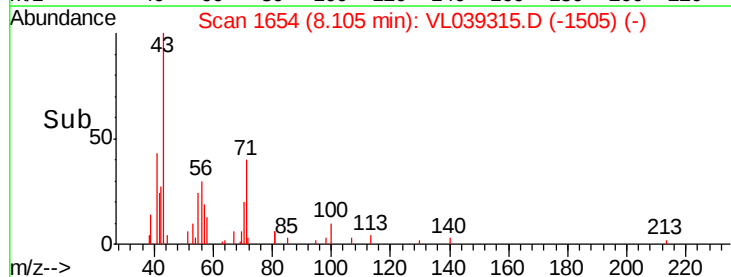
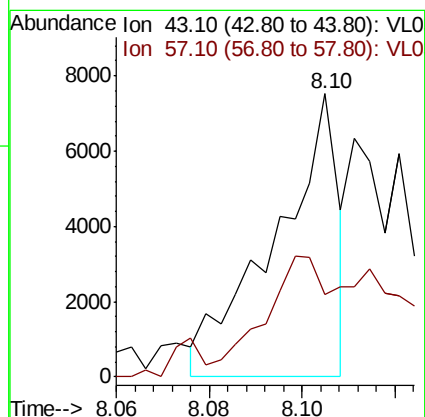
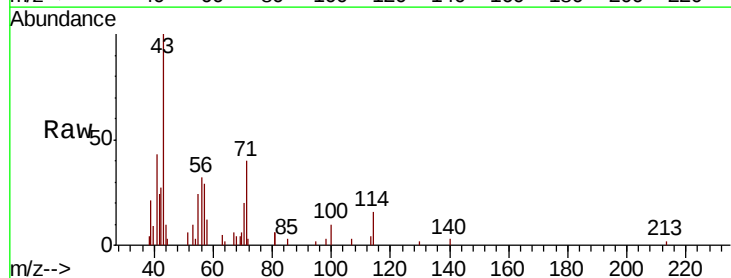
Acq: 16 Jun 2022 4:04

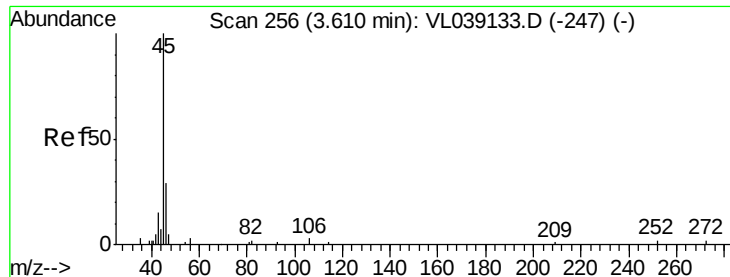
Tgt Ion: 43 Resp: 7087

Ion Ratio Lower Upper

43 100

57 105.5 41.4 62.2#





#13

Ethanol

Concen: 175.845 ppbv

RT: 3.59 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

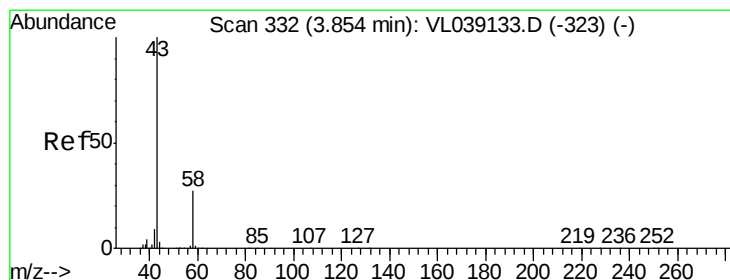
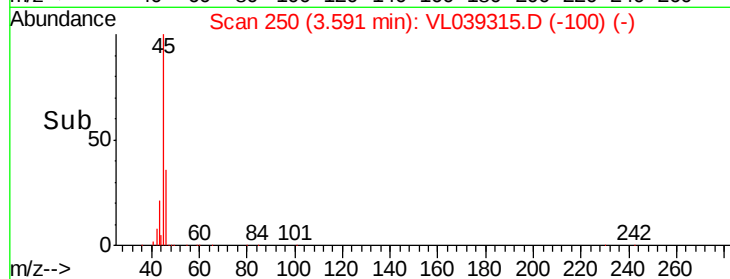
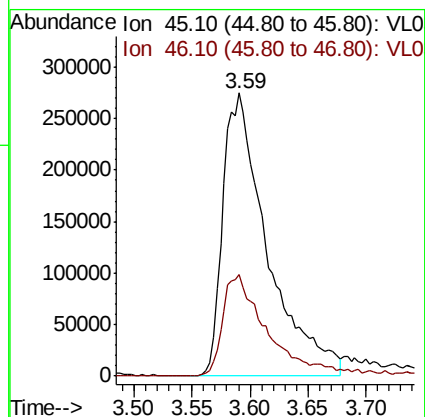
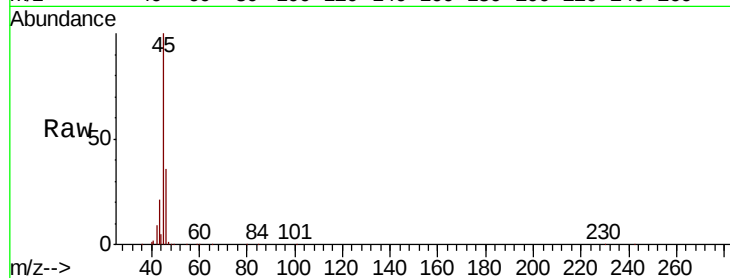
Acq: 16 Jun 2022 4:04 BFB

Tot Ion: 45 Resp: 731952

Ion Ratio Lower Upper

45 100

46 36.1 0.0 0.0#



#15

Acetone

Concen: 0.767 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL039315.D

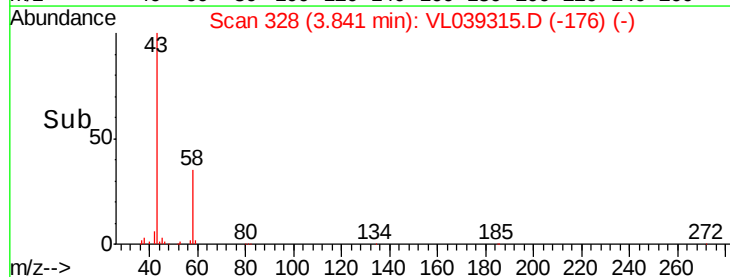
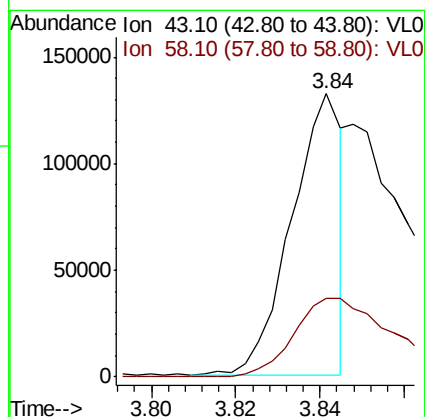
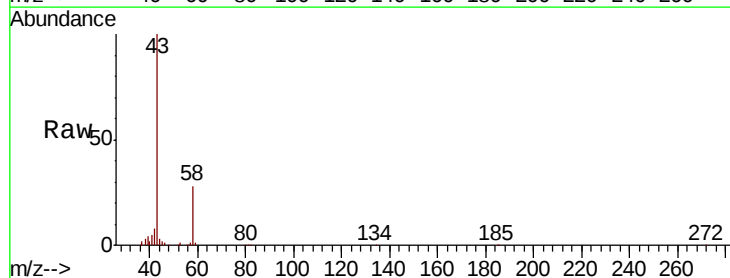
Acq: 16 Jun 2022 4:04

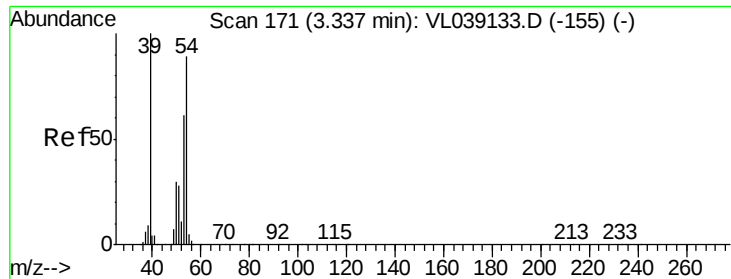
Tgt Ion: 43 Resp: 109948

Ion Ratio Lower Upper

43 100

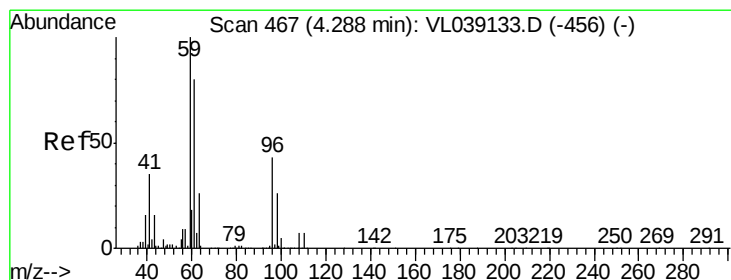
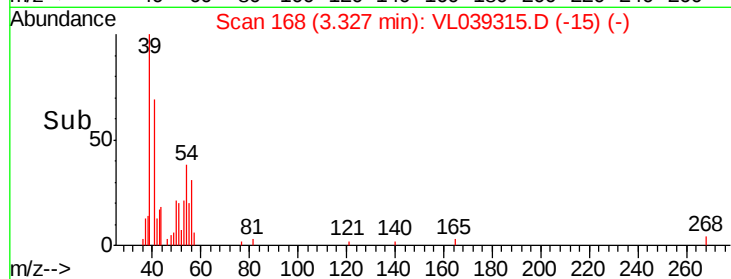
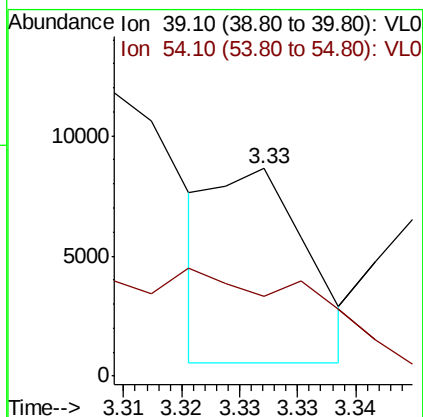
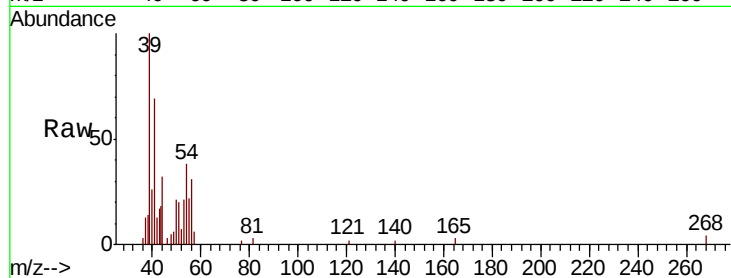
58 68.1 22.5 33.7#





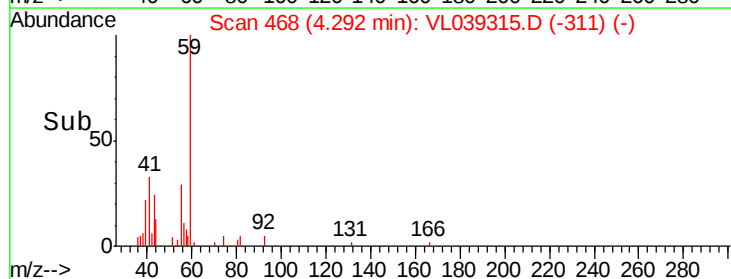
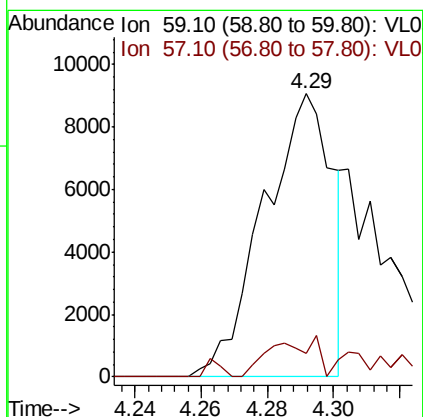
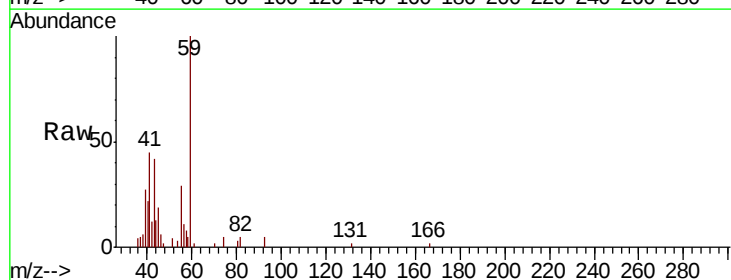
#16
 1,3-Butadiene
 Concen: 0.058 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BFB
 Acq: 16 Jun 2022 4:04

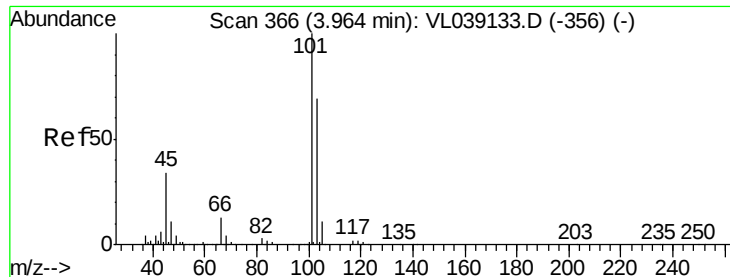
Tot Ion: 39 Resp: 4447
 Ion Ratio Lower Upper
 39 100
 54 187.0 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.117 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. 0.00 min
 Lab File: VL039315.D
 Acq: 16 Jun 2022 4:04

Tgt Ion: 59 Resp: 13013
 Ion Ratio Lower Upper
 59 100
 57 18.3 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 3.276 ppbv

RT: 3.96 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

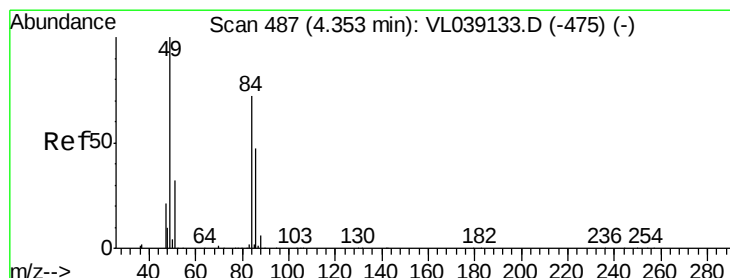
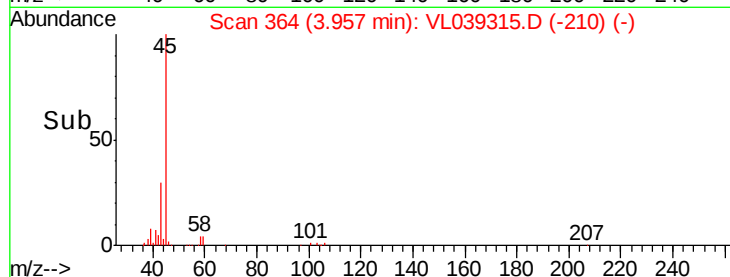
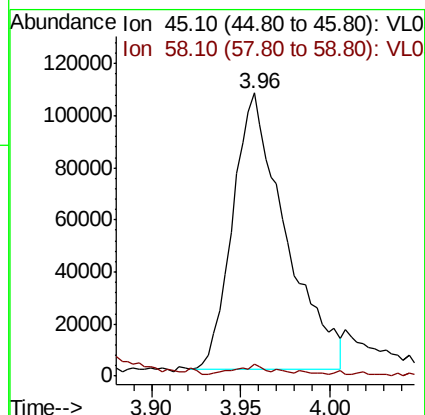
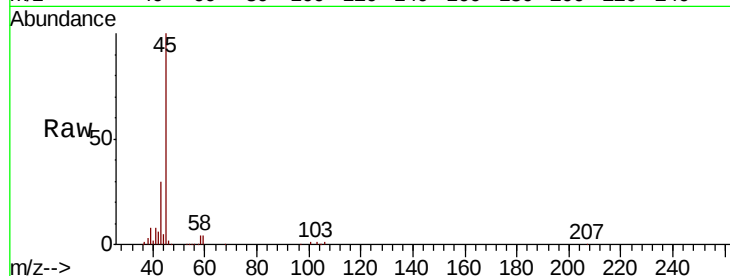
Acq: 16 Jun 2022 4:04

Tot Ion: 45 Resp: 220195

Ion Ratio Lower Upper

45 100

58 5.2 1.8 2.8#



#20

Methylene Chloride

Concen: 0.310 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL039315.D

Acq: 16 Jun 2022 4:04

Tgt Ion: 84 Resp: 18729

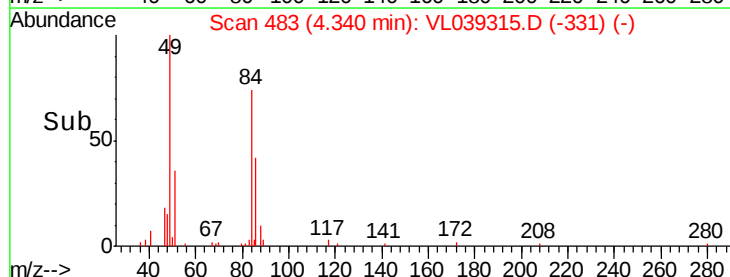
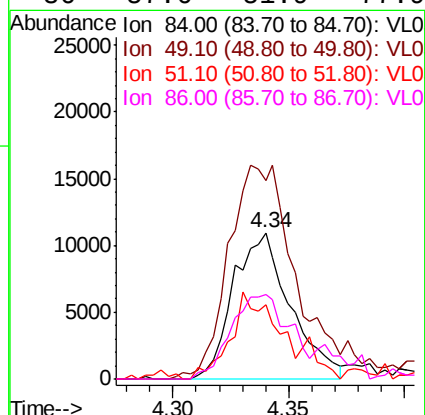
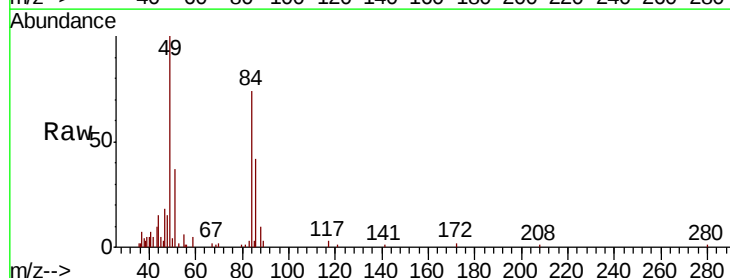
Ion Ratio Lower Upper

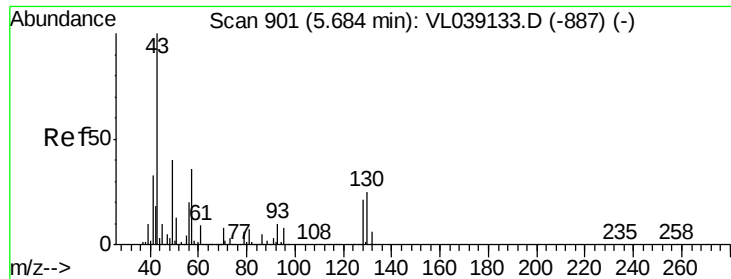
84 100

49 137.4 111.1 166.7

51 50.7 35.3 52.9

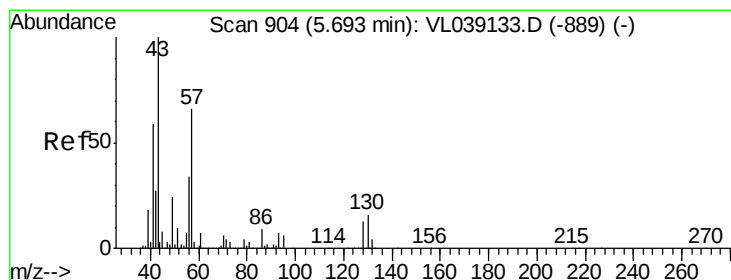
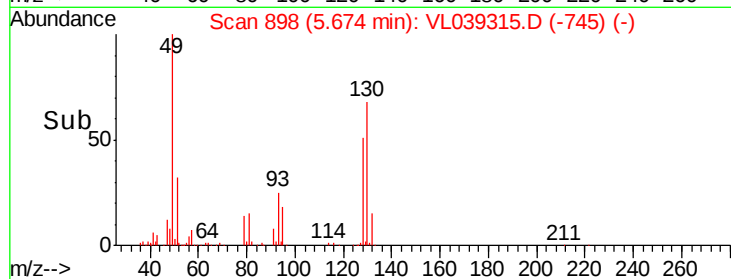
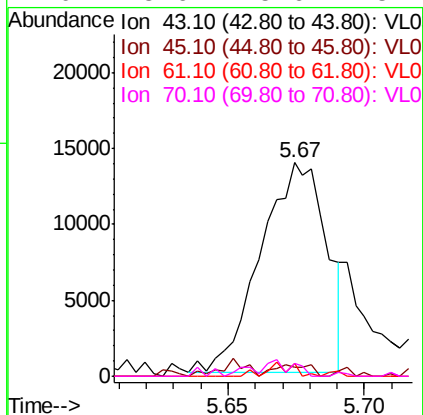
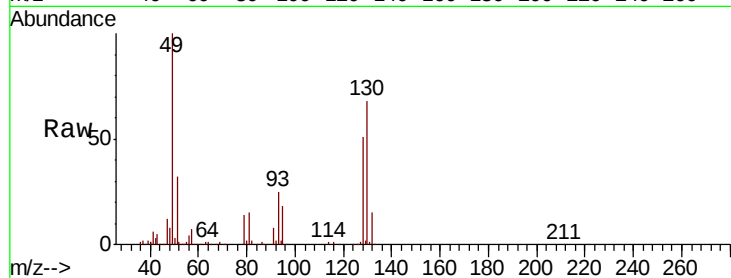
86 57.6 51.9 77.9





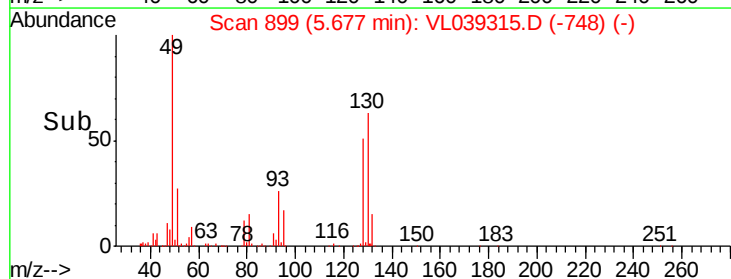
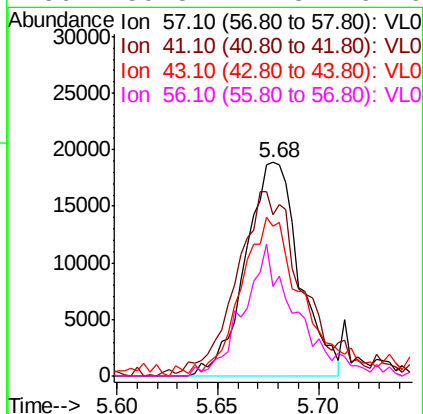
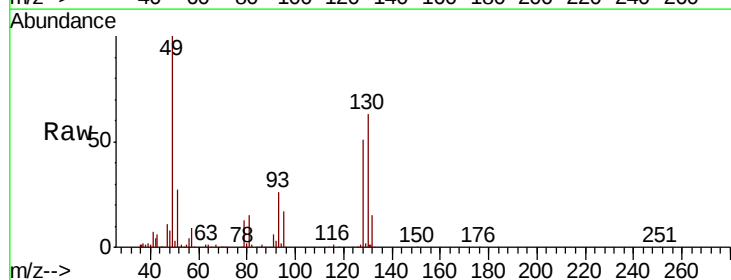
#25
Ethyl Acetate
Concen: 0.072 ppbv
RT: 5.67
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : BFB
Acq: 16 Jun 2022 4:04

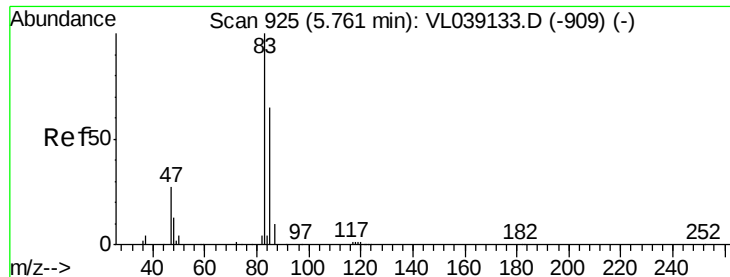
Tot Ion:	43	Resp:	23228
Ion	Ratio	Lower	Upper
43	100		
45	7.6	8.2	12.2#
61	2.9	8.4	12.6#
70	5.6	5.6	8.4



#26
Hexane
Concen: 0.249 ppbv
RT: 5.68 min Scan# 899
Delta R.T.: -0.02 min
Lab File: VL039315.D
Acq: 16 Jun 2022 4:04

Tgt Ion:	57	Resp:	35300
Ion	Ratio	Lower	Upper
57	100		
41	105.8	72.4	108.6
43	97.7	187.0	280.6#
56	59.8	41.8	62.6





#29

Chloroform

Concen: 0.187 ppbv

RT: 5.74 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: BFB

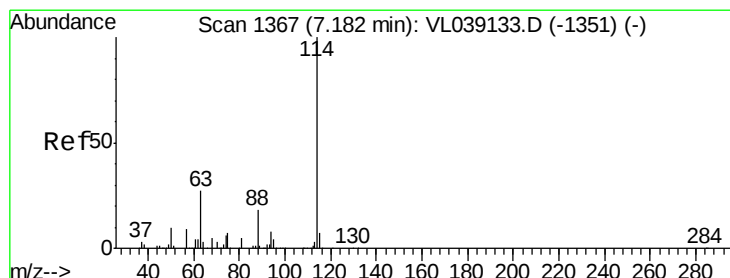
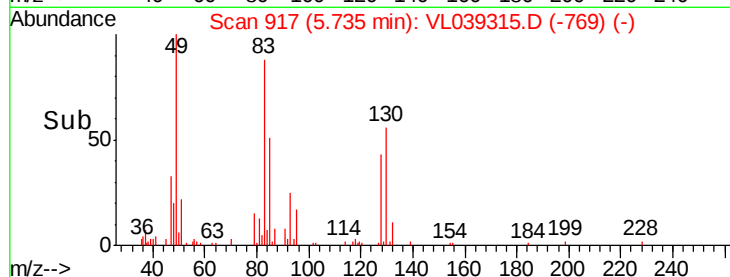
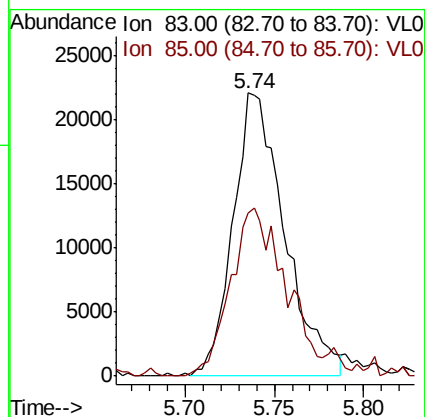
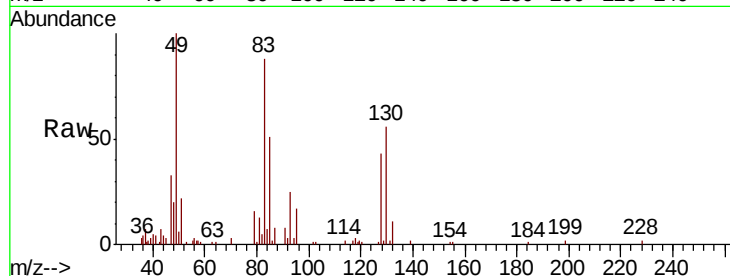
Acq: 16 Jun 2022 4:04

Tot Ion: 83 Resp: 44553

Ion Ratio Lower Upper

83 100

85 56.6 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL039315.D

Acq: 16 Jun 2022 4:04

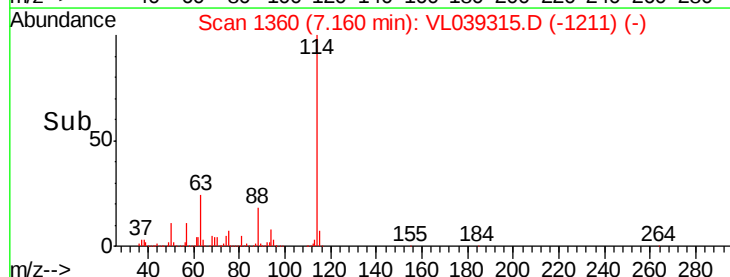
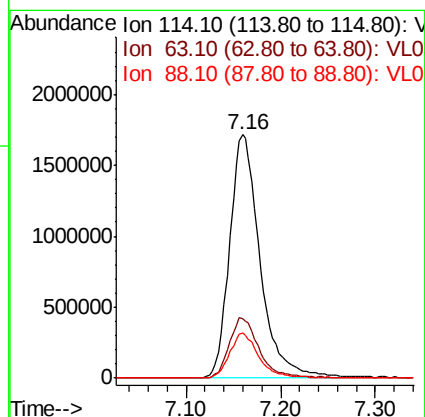
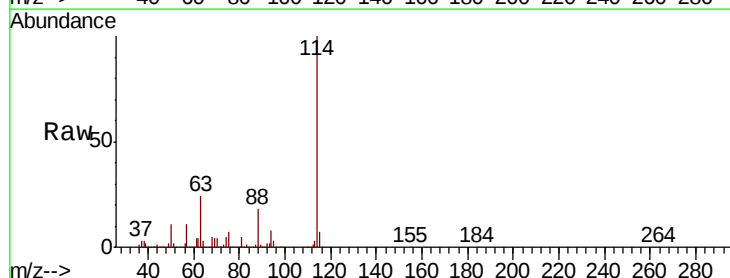
Tgt Ion: 114 Resp: 3835911

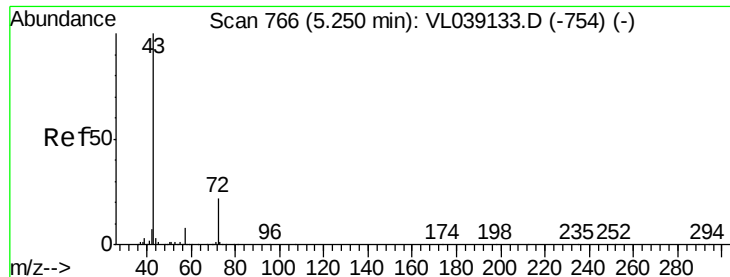
Ion Ratio Lower Upper

114 100

63 24.9 21.7 32.5

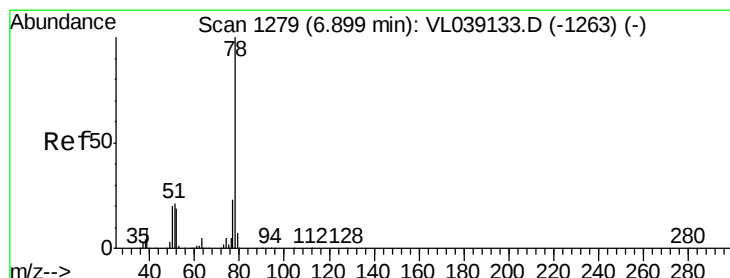
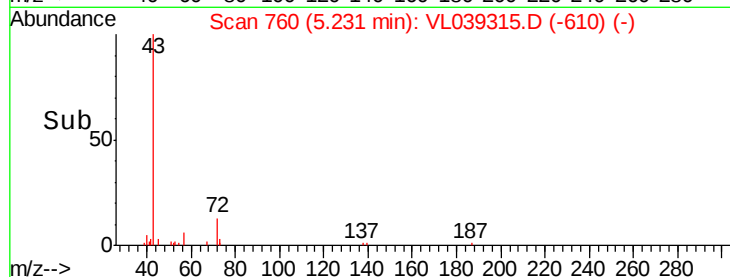
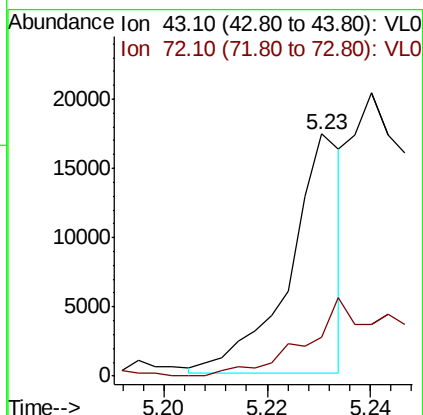
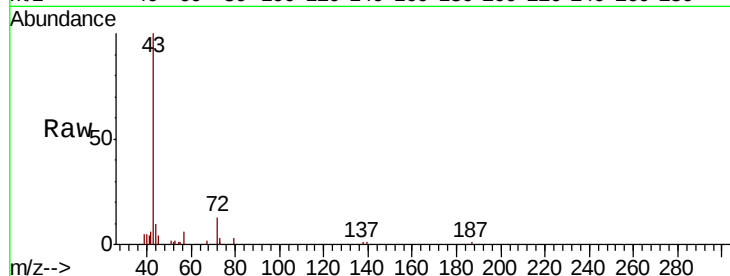
88 18.1 14.8 22.2





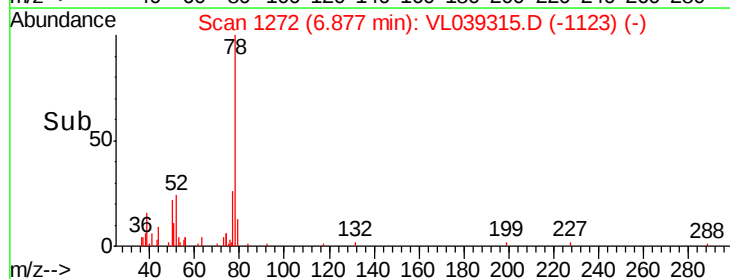
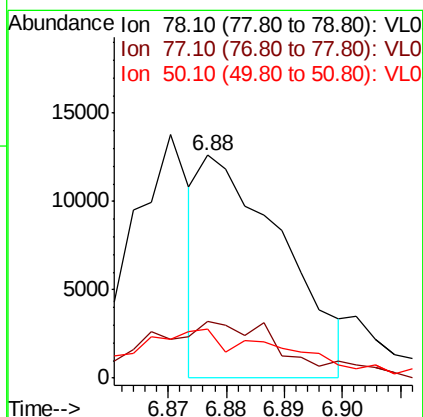
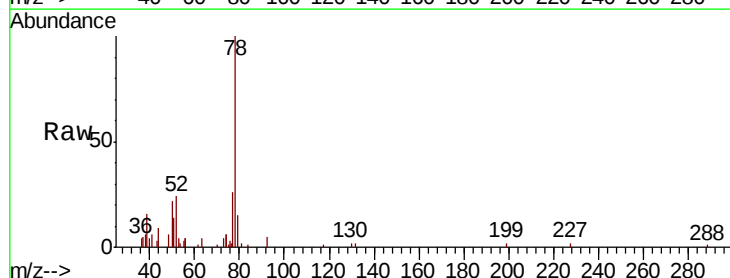
#34
 2-Butanone
 Concen: 0.059 ppbv
 RT: 5.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BFB
 Acq: 16 Jun 2022 4:04

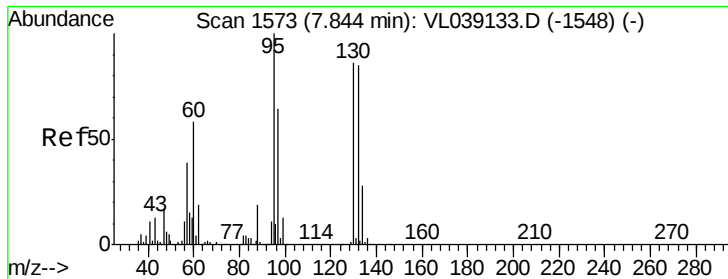
Tot Ion: 43 Resp: 12247
 Ion Ratio Lower Upper
 43 100
 72 90.9 18.2 27.2#



#36
 Benzene
 Concen: 0.040 ppbv
 RT: 6.88 min Scan# 1272
 Delta R.T. -0.02 min
 Lab File: VL039315.D
 Acq: 16 Jun 2022 4:04

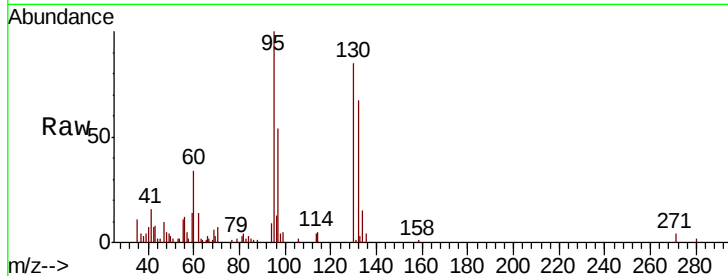
Tgt Ion: 78 Resp: 12531
 Ion Ratio Lower Upper
 78 100
 77 24.7 18.6 27.8
 50 21.9 15.8 23.8



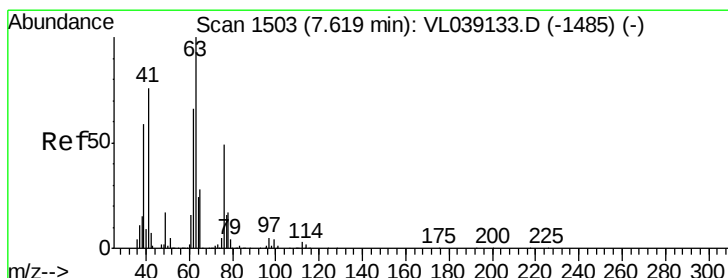
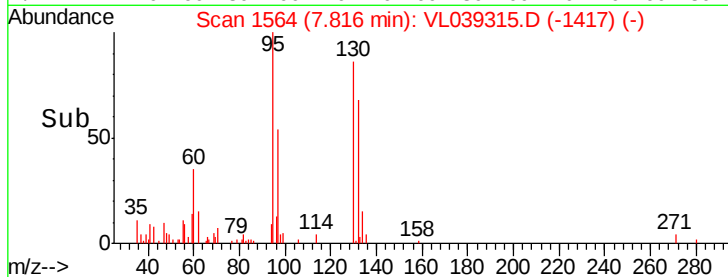
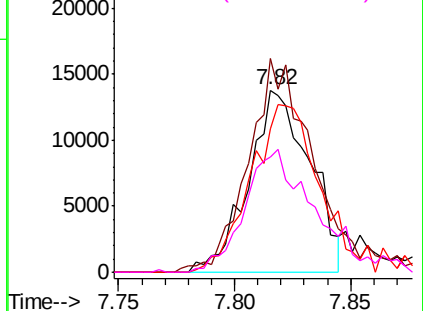


#38
 Trichloroethene
 Concen: 0.177 ppbv
 RT: 7.82
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BFB
 Acq: 16 Jun 2022 4:04

Tot Ion:130	Resp:	25376
Ion Ratio	Lower	Upper
130	100	
95	113.0	93.3 139.9
132	79.1	79.0 118.4
97	63.1	59.4 89.2

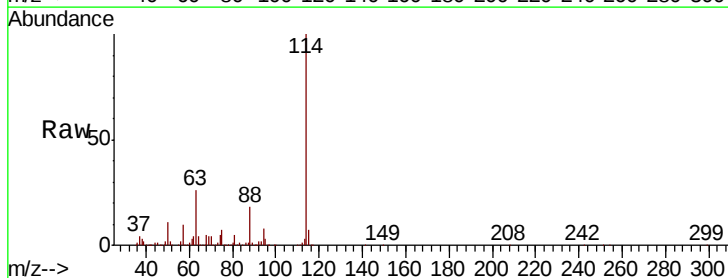


Abundance Ion 130.00 (129.70 to 130.70): V
 25000 Ion 95.00 (94.70 to 95.70): VL0
 20000 Ion 132.00 (131.70 to 132.70): V
 15000 Ion 97.00 (96.70 to 97.70): VL0

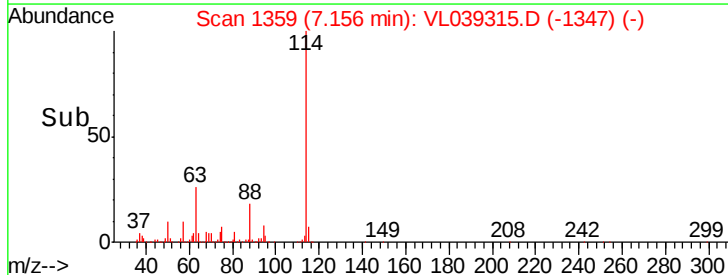
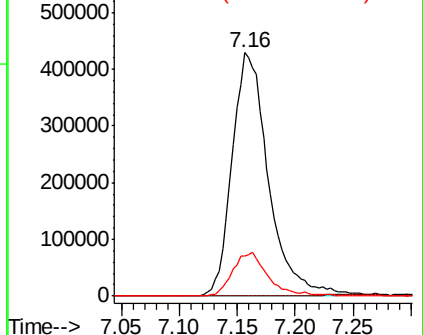


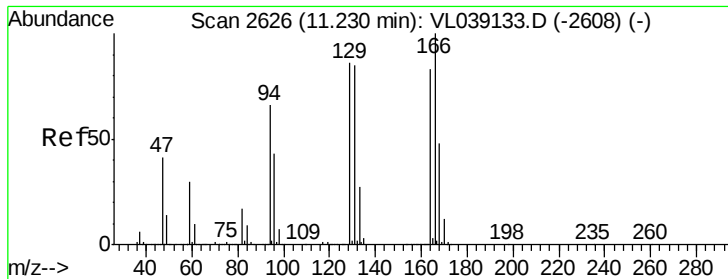
#39
 1,2-Dichloropropane
 Concen: 7.534 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.46 min
 Lab File: VL039315.D
 Acq: 16 Jun 2022 4:04

Tgt Ion: 63	Resp:	933222
Ion Ratio	Lower	Upper
63	100	
41	0.0	60.8 91.2#
62	16.2	52.9 79.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 60000 Ion 41.10 (40.80 to 41.80): VL0
 50000 Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.141 ppbv

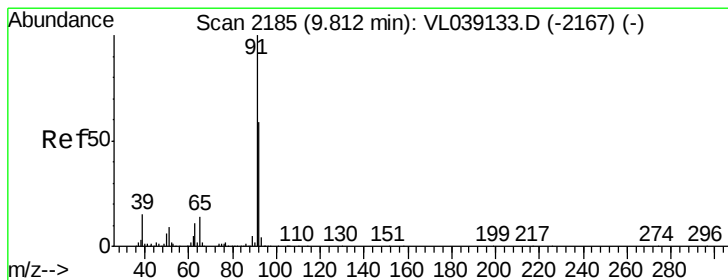
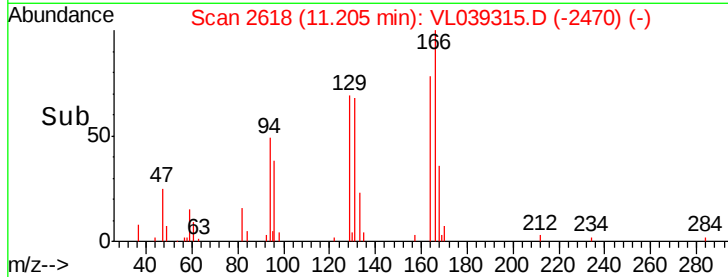
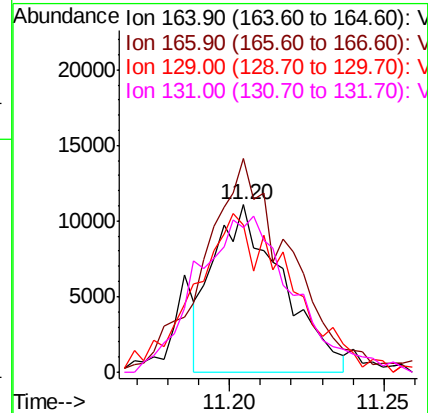
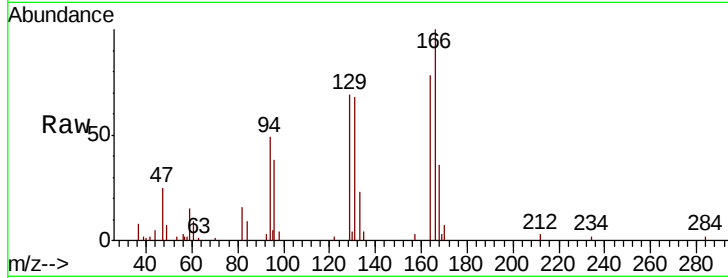
RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Jun 2022 4:04

Tot Ion:	164	Resp:	17120
Ion	Ratio	Lower	Upper
164	100		
166	126.6	96.3	144.5
129	79.7	82.5	123.7#
131	80.6	82.1	123.1#



#53

Toluene

Concen: 0.168 ppbv

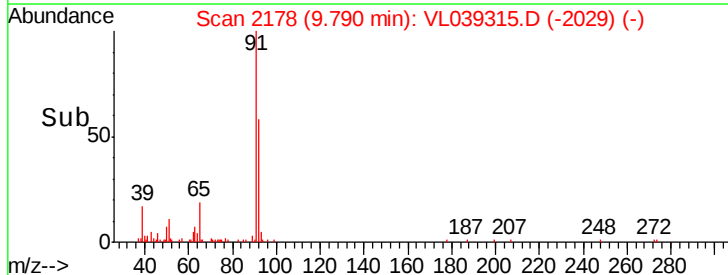
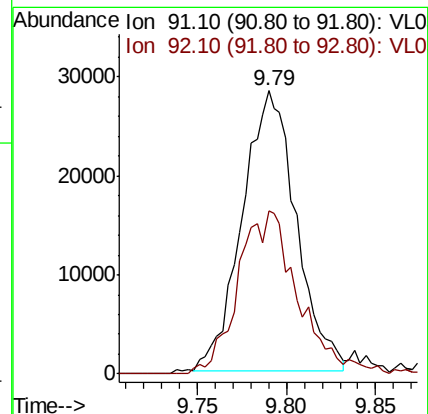
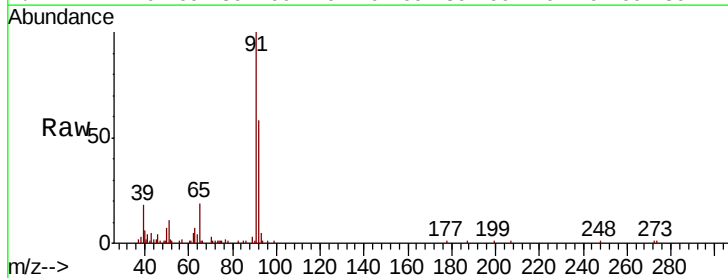
RT: 9.79 min Scan# 2178

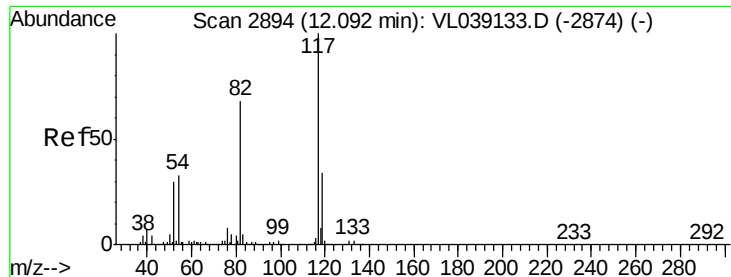
Delta R.T. -0.02 min

Lab File: VL039315.D

Acq: 16 Jun 2022 4:04

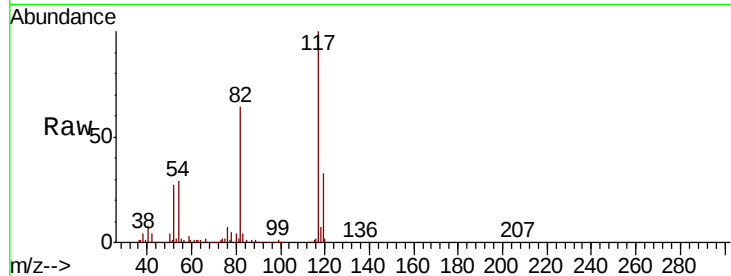
Tgt Ion:	91	Resp:	60266
Ion	Ratio	Lower	Upper
91	100		
92	64.7	48.1	72.1



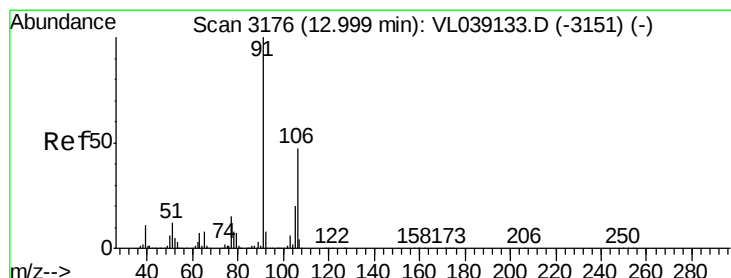
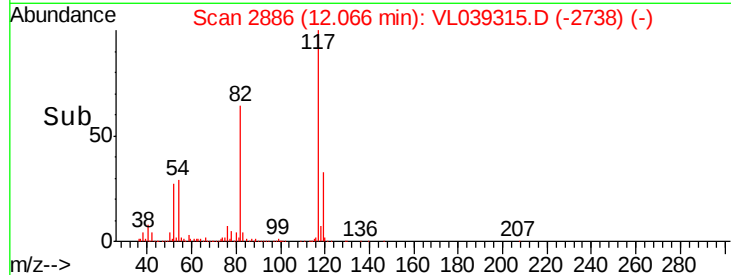
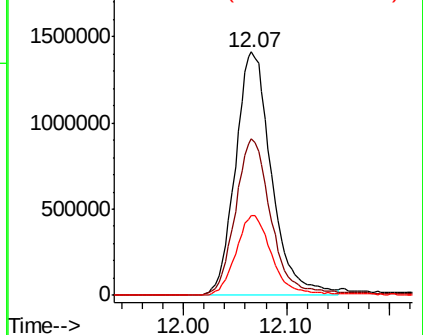


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Jun 2022 4:04

Tot Ion: 117 Resp: 3436116
Ion Ratio Lower Upper
117 100
82 65.8 55.1 82.7
119 33.0 24.7 37.1

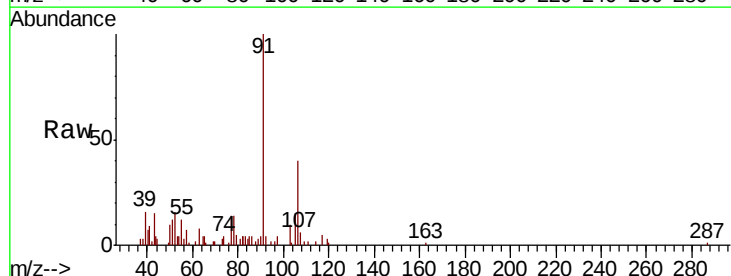


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

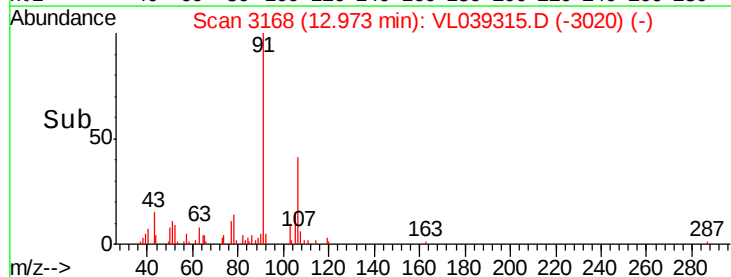
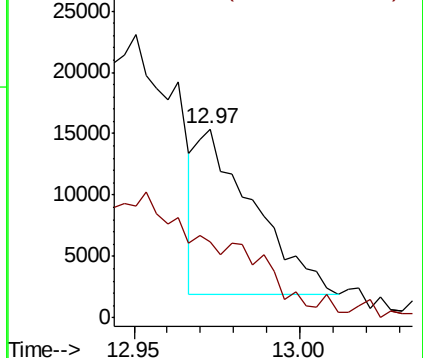


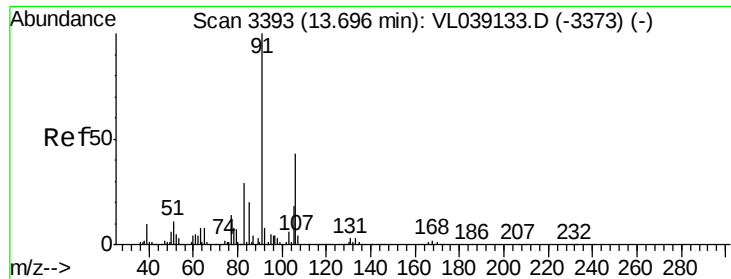
#59
m/p-Xylene
Concen: 0.038 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL039315.D
Acq: 16 Jun 2022 4:04

Tgt Ion: 91 Resp: 16029
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#



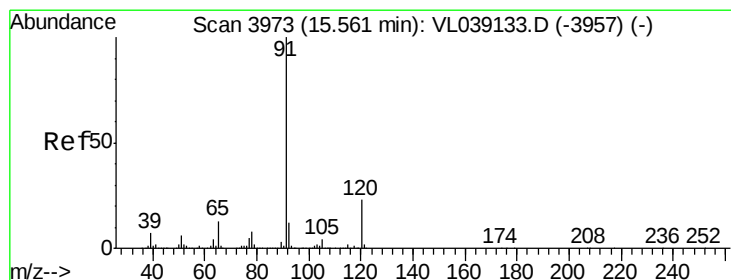
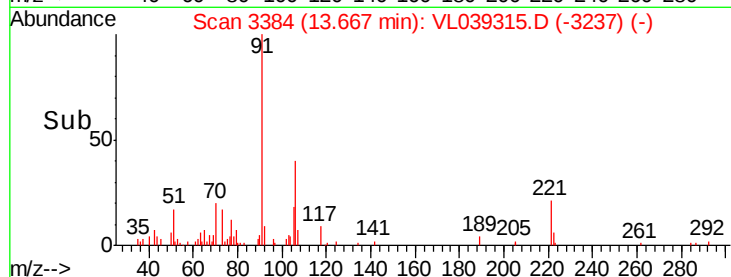
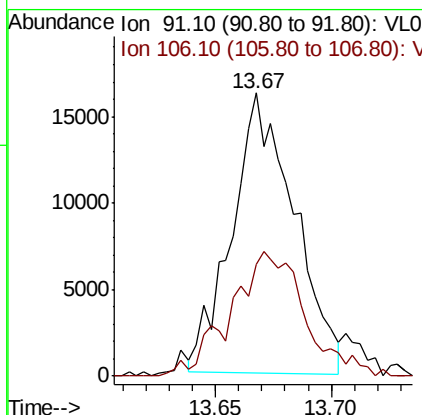
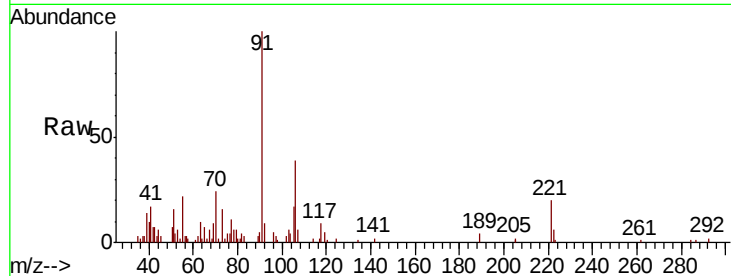
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





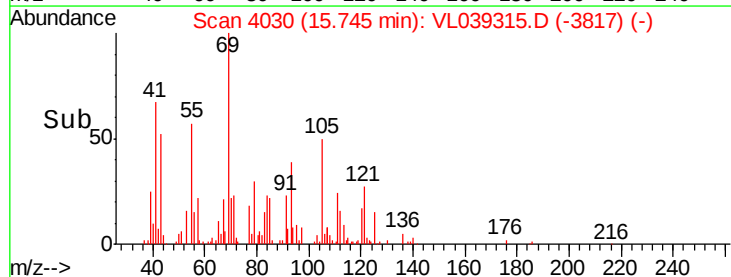
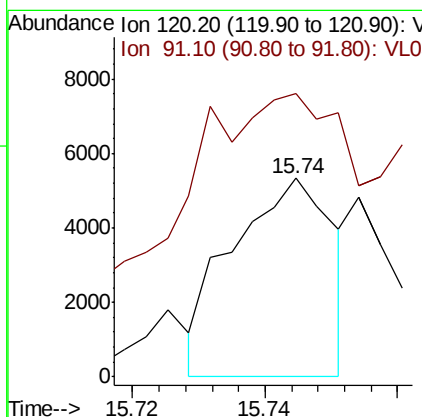
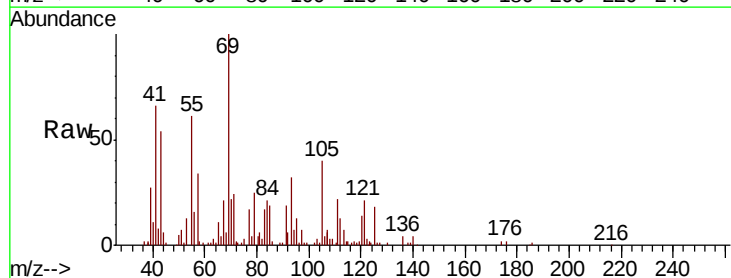
#60
o-Xylene
Concen: 0.077 ppbv
RT: 13.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Jun 2022 4:04

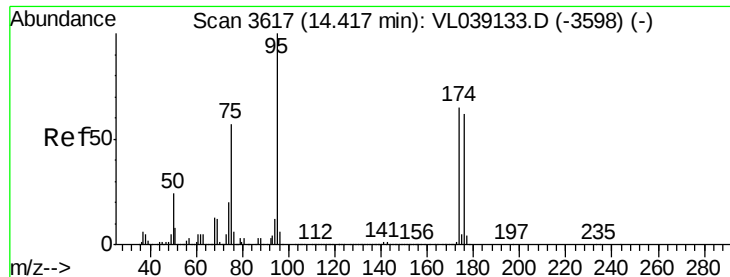
Tot Ion: 91 Resp: 30322
Ion Ratio Lower Upper
91 100
106 52.8 22.3 66.9



#64
n-propylbenzene
Concen: 0.039 ppbv
RT: 15.74 min Scan# 4030
Delta R.T. 0.18 min
Lab File: VL039315.D
Acq: 16 Jun 2022 4:04

Tgt Ion:120 Resp: 5631
Ion Ratio Lower Upper
120 100
91 391.7 388.4 582.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.241 ppbv

RT: 14.39

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Jun 2022 4:04

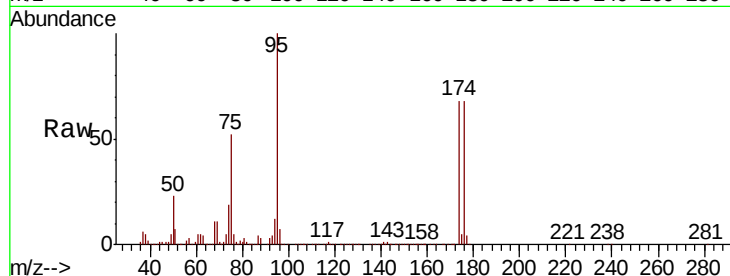
Tot Ion: 95 Resp: 2625279

Ion Ratio Lower Upper

95 100

174 72.9 53.8 80.8

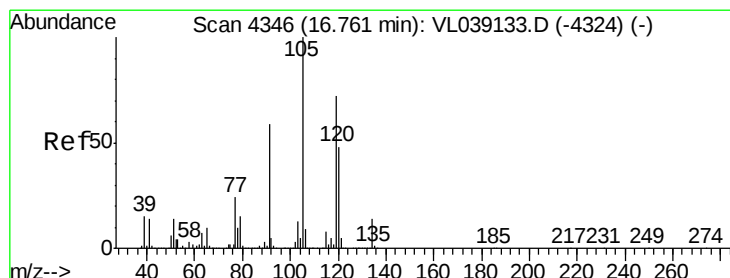
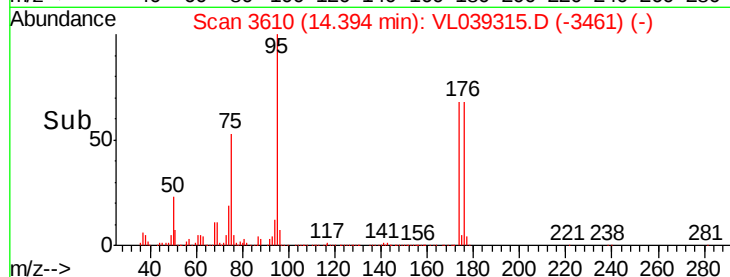
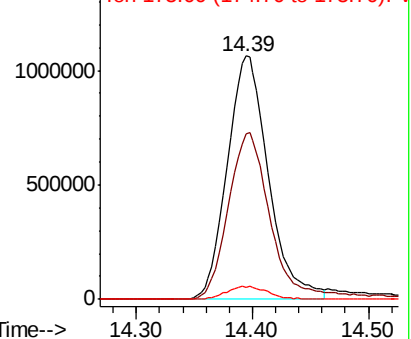
175 5.4 4.1 6.1



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: 0.154 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.02 min

Lab File: VL039315.D

Acq: 16 Jun 2022 4:04

Tgt Ion:105 Resp: 71305

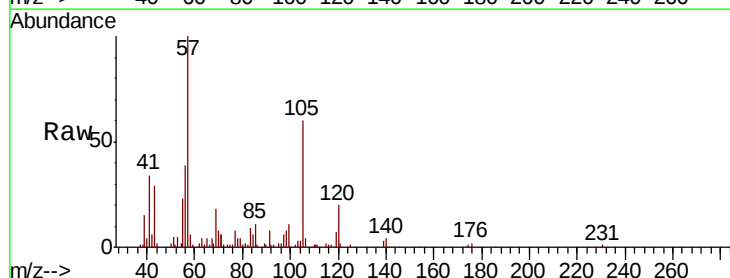
Ion Ratio Lower Upper

105 100

120 32.5 38.1 57.1#

91 11.3 47.4 71.0#

77 10.1 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

