

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038723.D
 Acq On : 23 Mar 2022 19:50
 Operator : SY/AP
 Sample : N2047-01DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 04:35:07 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	964826	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2545710	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2195938	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1585792	9.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.20%

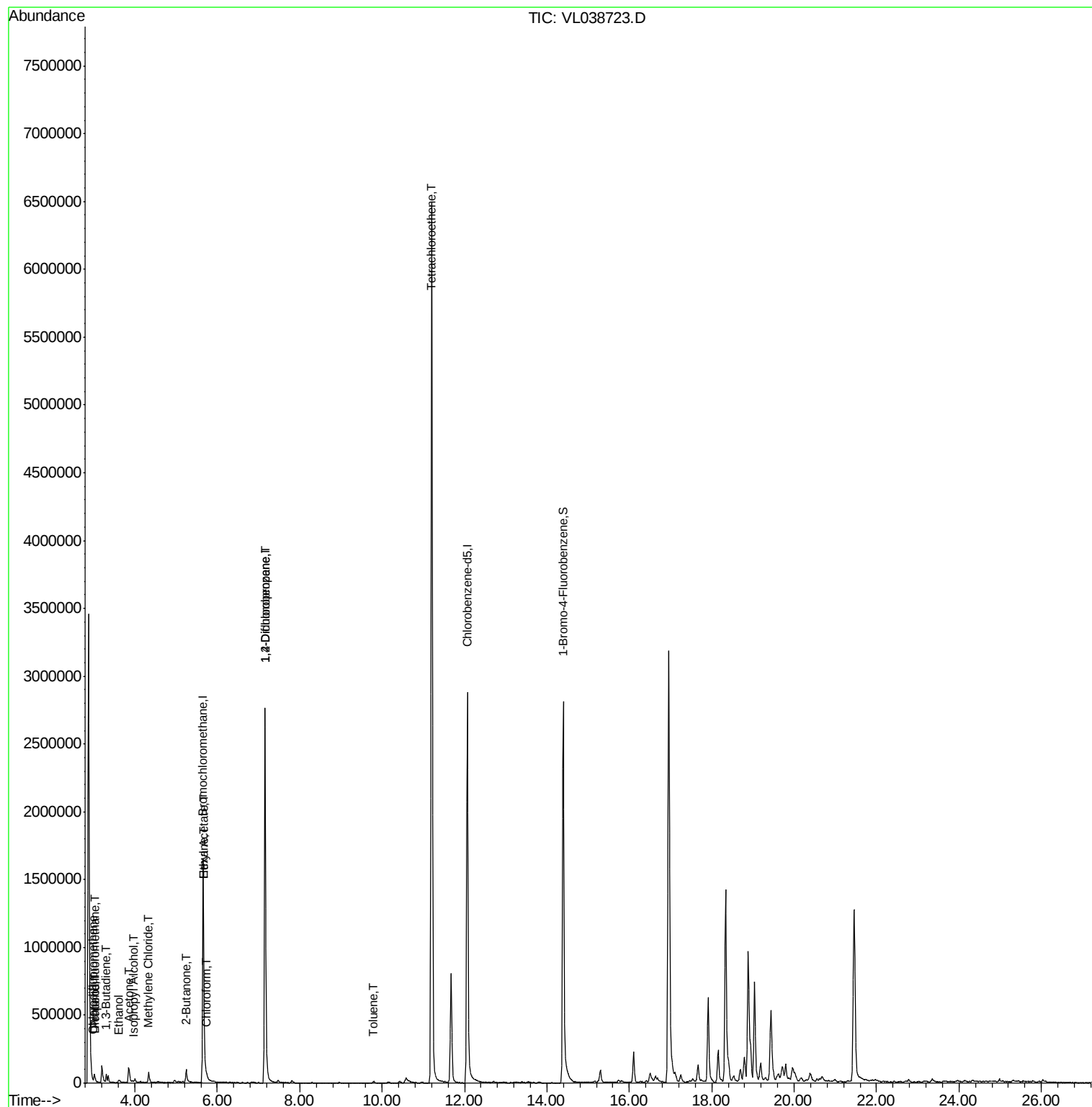
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	9361	0.072	ppbv	100
3) Chlorodifluoromethane	2.99	51	10971	0.108	ppbv #	84
9) Propene	3.01	41	10782	0.219	ppbv #	15
13) Ethanol	3.60	45	16601	3.059	ppbv #	37
15) Acetone	3.85	43	160471	1.928	ppbv	93
16) 1,3-Butadiene	3.30	39	16359	0.346	ppbv #	14
19) Isopropyl Alcohol	3.97	45	3909	0.085	ppbv #	1
20) Methylene Chloride	4.33	84	28933	0.825	ppbv #	92
25) Ethyl Acetate	5.67	43	14525	0.069	ppbv #	81
26) Hexane	5.67	57	20750	0.221	ppbv #	39
29) Chloroform	5.74	83	9177	0.061	ppbv	85
34) 2-Butanone	5.24	43	140193	1.391	ppbv	91
39) 1,2-Dichloropropane	7.16	63	584269	7.607	ppbv #	28
52) Tetrachloroethene	11.20	164	1972505	27.434	ppbv	97
53) Toluene	9.79	91	9137	0.043	ppbv #	82

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

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QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:50

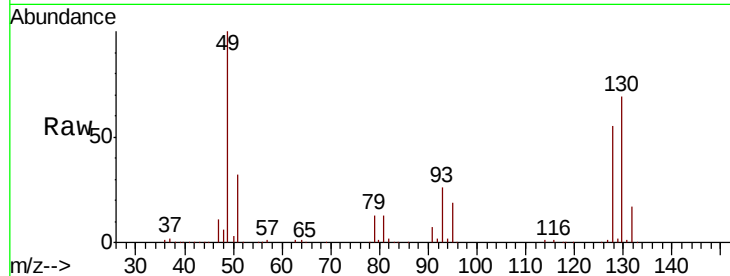
Tot Ion: 49 Resp: 964826

Ion Ratio Lower Upper

49 100

128 55.1 26.2 78.6

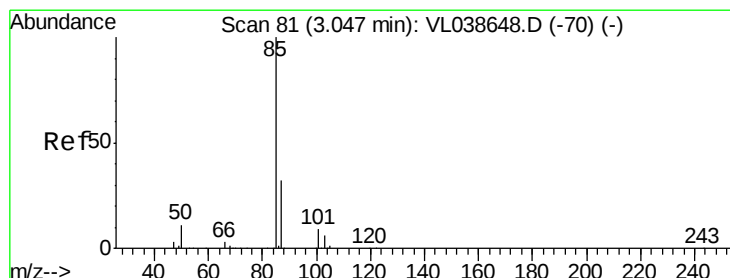
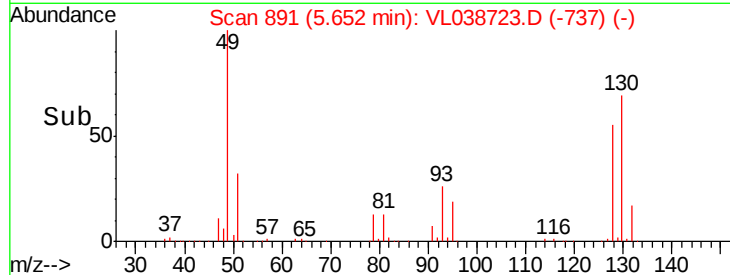
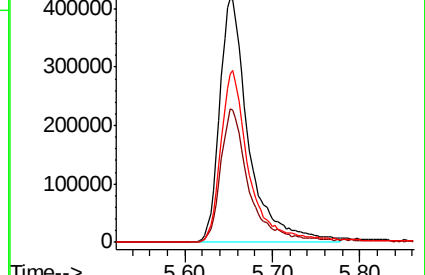
130 71.2 33.7 101.1



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: 0.072 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038723.D

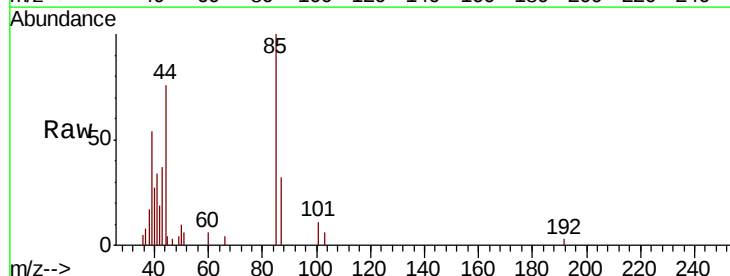
Acq: 23 Mar 2022 19:50

Tgt Ion: 85 Resp: 9361

Ion Ratio Lower Upper

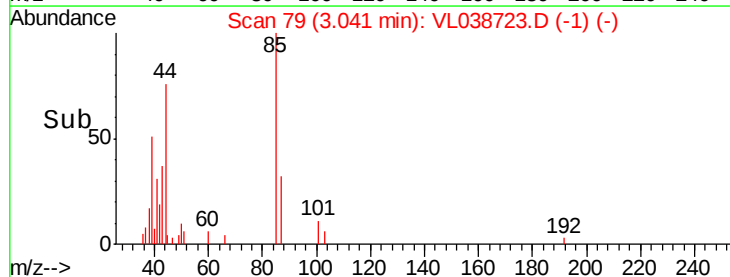
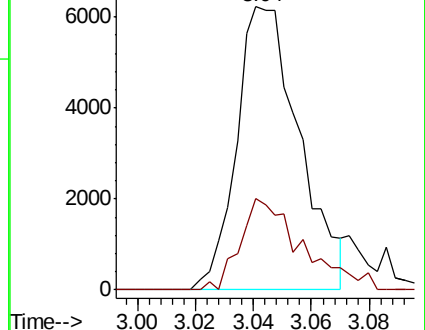
85 100

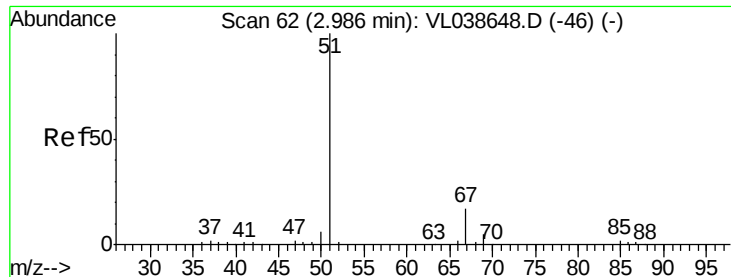
87 32.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.108 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

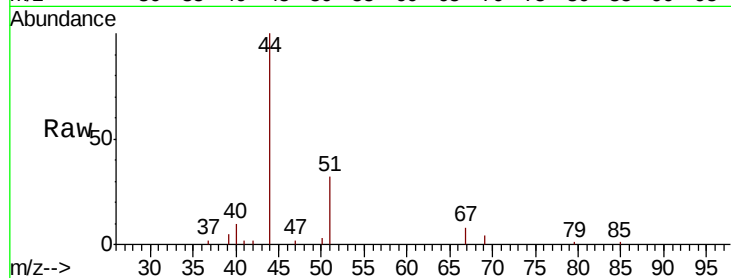
Acq: 23 Mar 2022 19:50

Tot Ion: 51 Resp: 10971

Ion Ratio Lower Upper

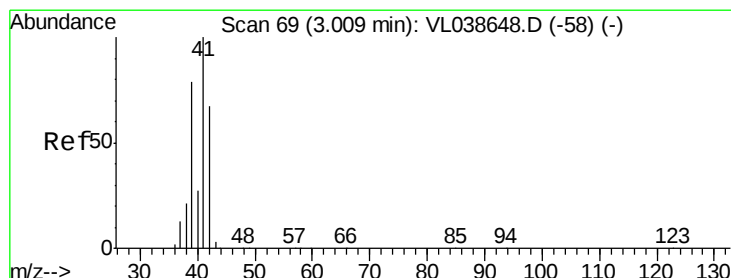
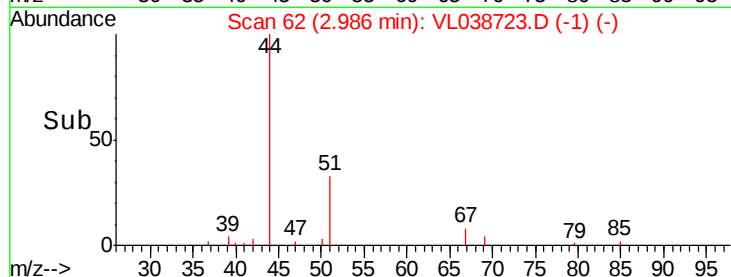
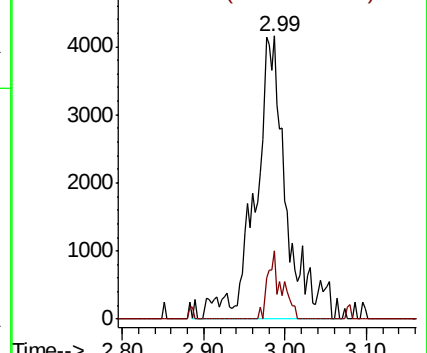
51 100

67 10.7 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.219 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL038723.D

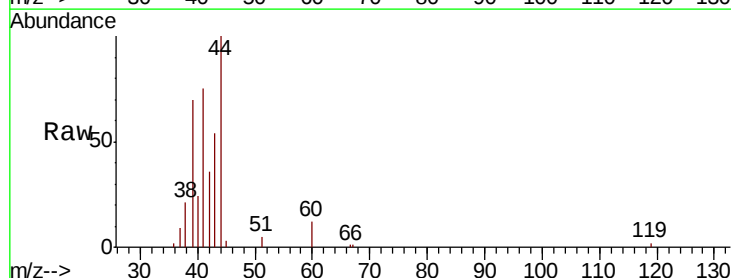
Acq: 23 Mar 2022 19:50

Tgt Ion: 41 Resp: 10782

Ion Ratio Lower Upper

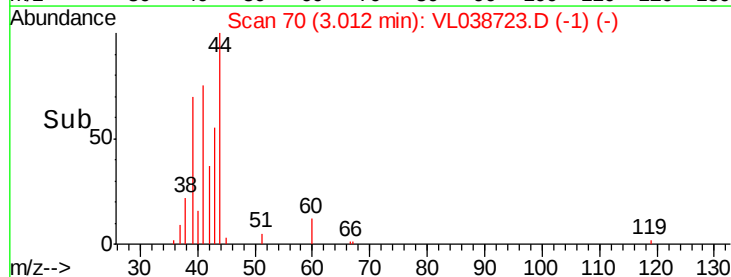
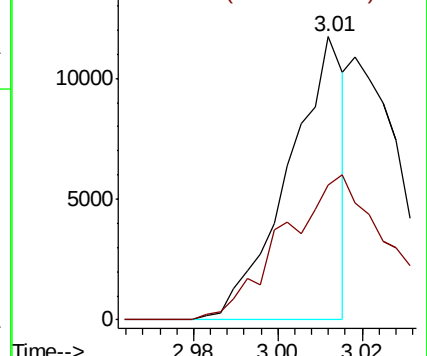
41 100

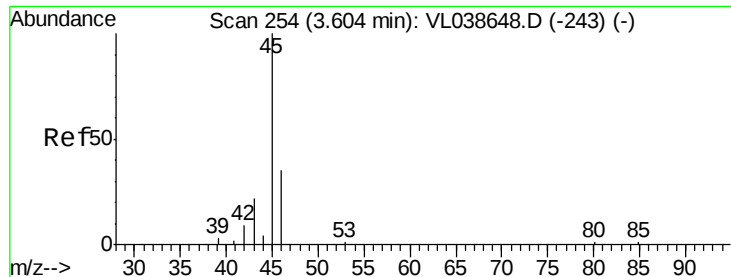
42 0.0 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

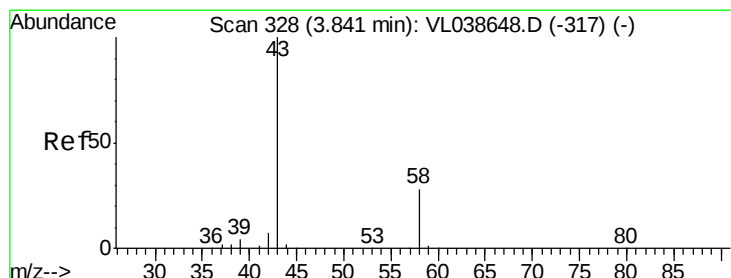
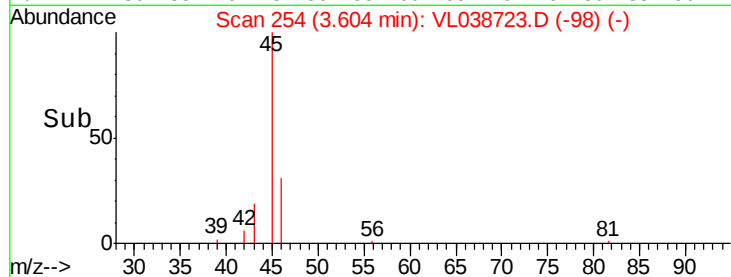
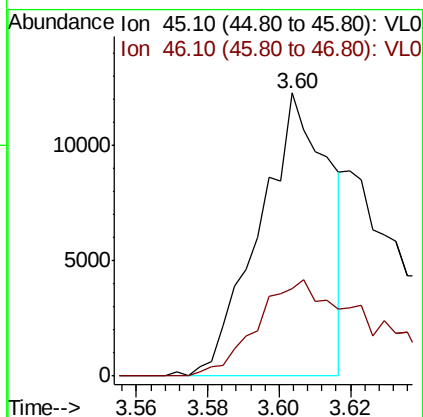
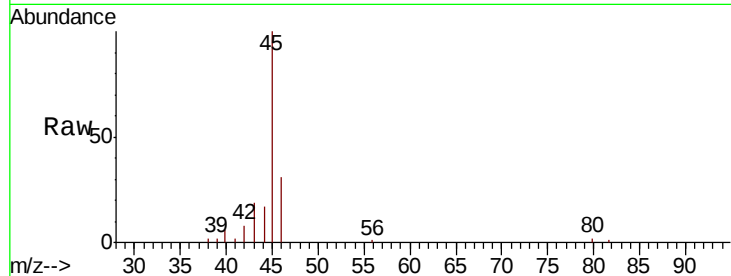
Ion 42.10 (41.80 to 42.80): VL0





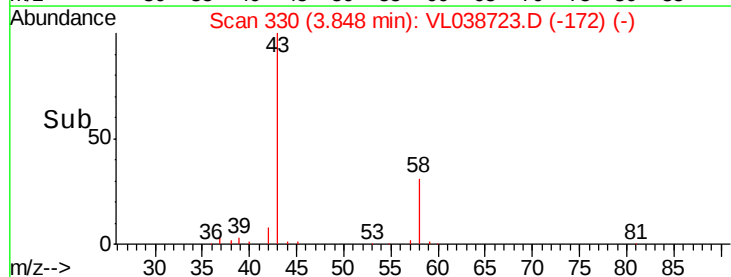
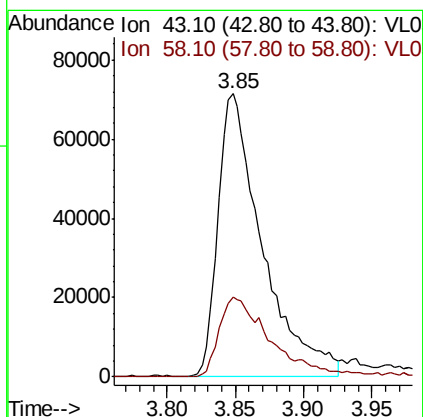
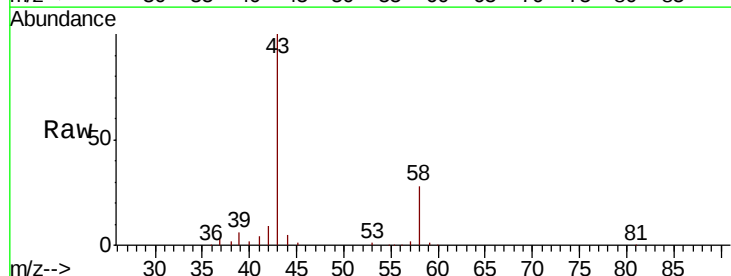
#13
 Ethanol
 Concen: 3.059 ppbv
 RT: 3.60
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 19:50

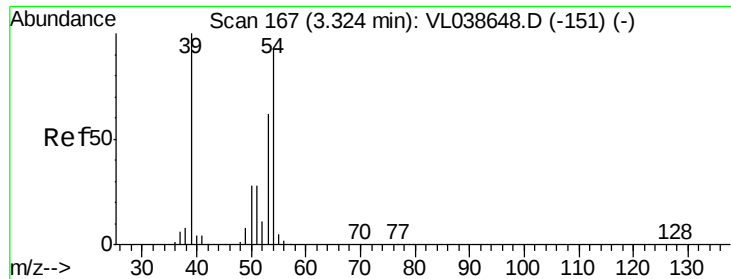
Tot Ion: 45 Resp: 16601
 Ion Ratio Lower Upper
 45 100
 46 75.9 15.1 60.5#



#15
 Acetone
 Concen: 1.928 ppbv
 RT: 3.85 min Scan# 330
 Delta R.T. 0.01 min
 Lab File: VL038723.D
 Acq: 23 Mar 2022 19:50

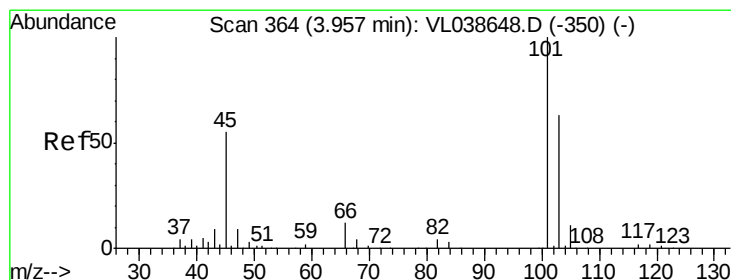
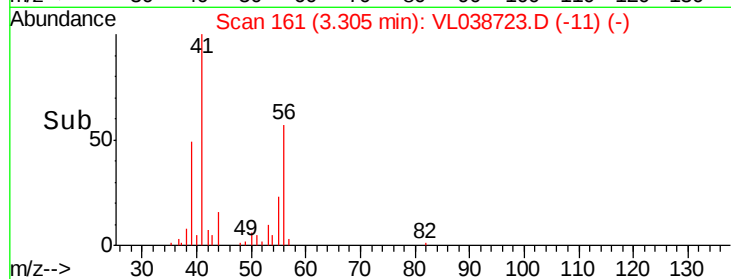
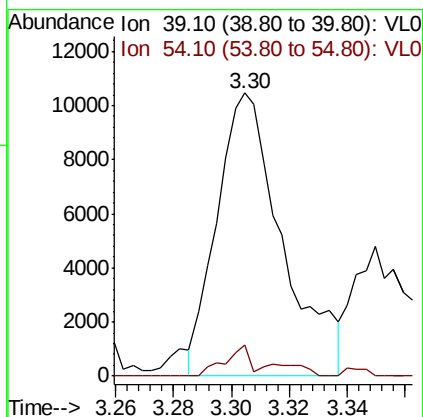
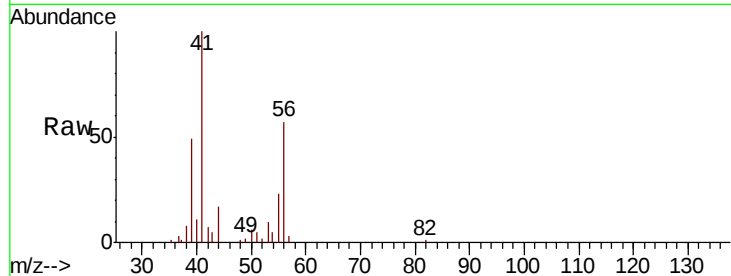
Tgt Ion: 43 Resp: 160471
 Ion Ratio Lower Upper
 43 100
 58 32.8 23.3 34.9





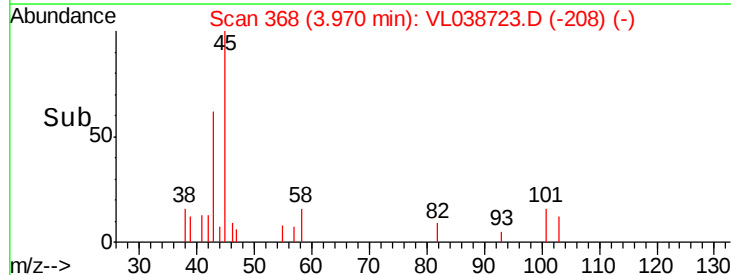
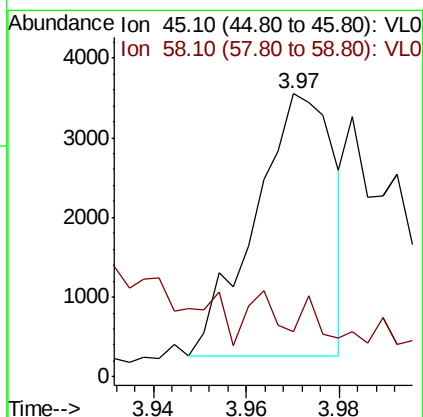
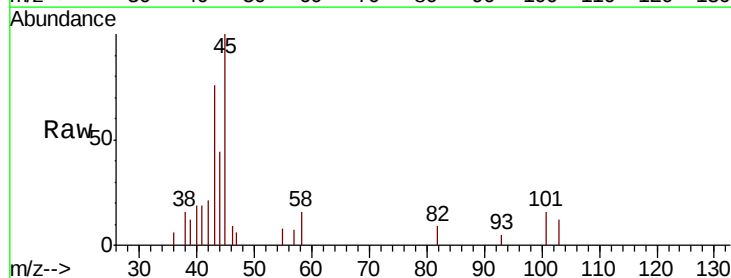
#16
 1,3-Butadiene
 Concen: 0.346 ppbv
 RT: 3.30
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 19:50

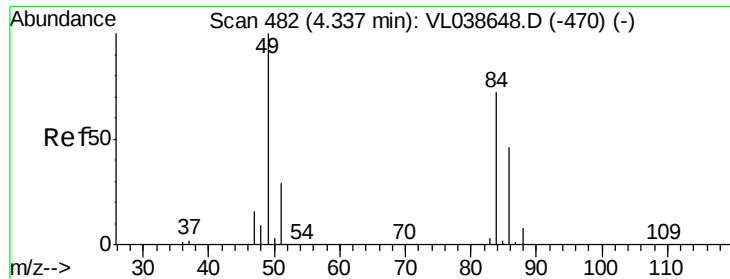
Tot Ion: 39 Resp: 16359
 Ion Ratio Lower Upper
 39 100
 54 7.7 69.1 103.7#



#19
 Isopropyl Alcohol
 Concen: 0.085 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL038723.D
 Acq: 23 Mar 2022 19:50

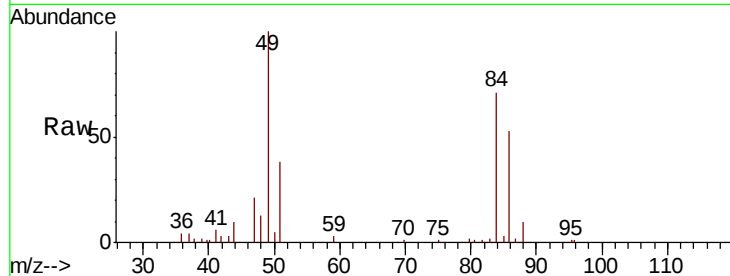
Tgt Ion: 45 Resp: 3909
 Ion Ratio Lower Upper
 45 100
 58 60.9 2.3 3.5#



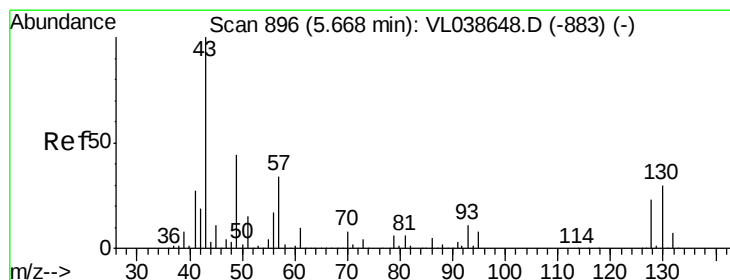
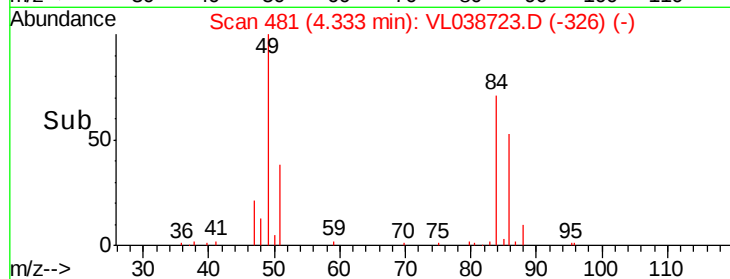
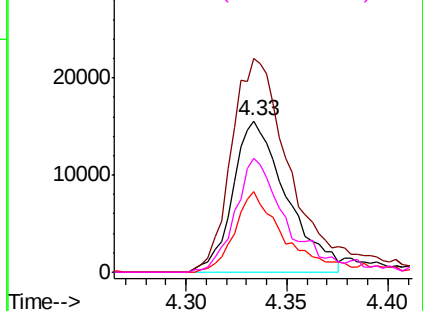


#20
Methvlene Chloride
Concen: 0.825 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 19:50

Tot Ion:	84	Resp:	28933
Ion	Ratio	Lower	Upper
84	100		
49	140.9	111.2	166.8
51	53.4	32.8	49.2#
86	75.2	51.4	77.0

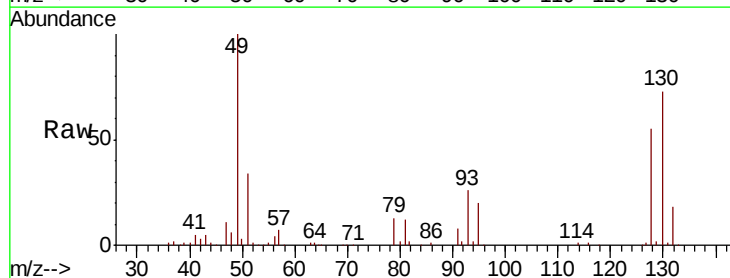


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

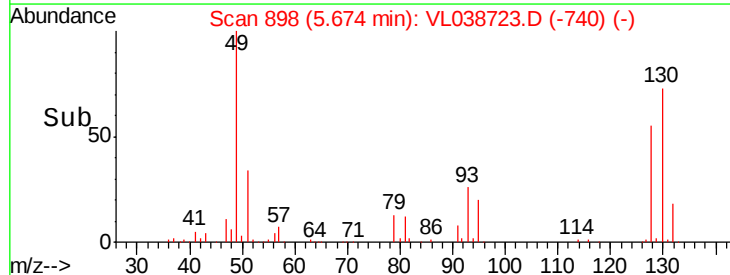
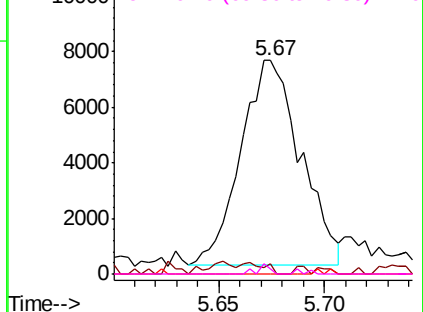


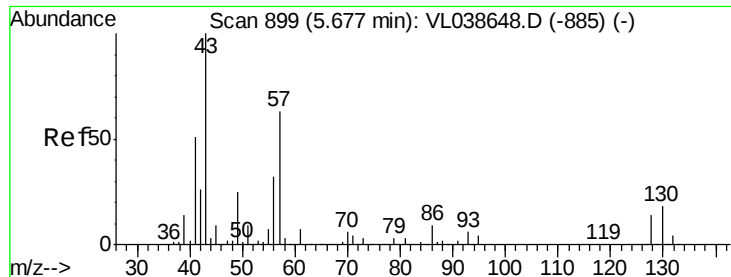
#25
Ethyl Acetate
Concen: 0.069 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL038723.D
Acq: 23 Mar 2022 19:50

Tgt Ion:	43	Resp:	14525
Ion	Ratio	Lower	Upper
43	100		
45	5.7	8.2	12.4#
61	0.0	8.3	12.5#
70	1.4	5.6	8.4#



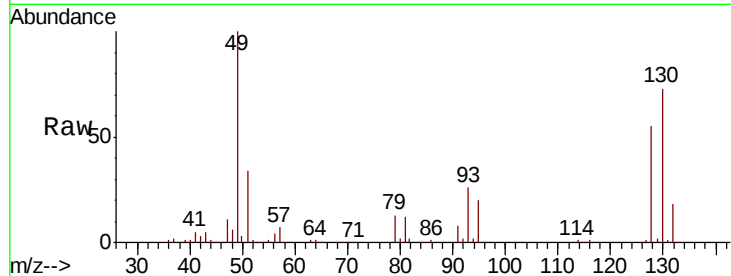
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



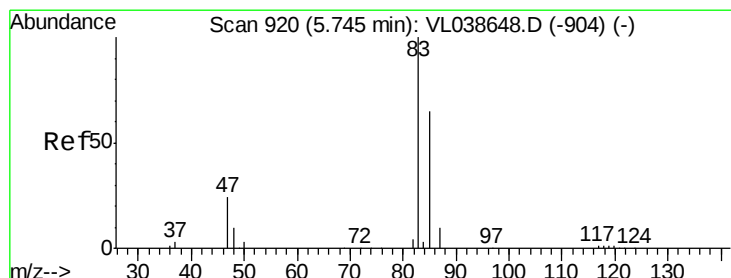
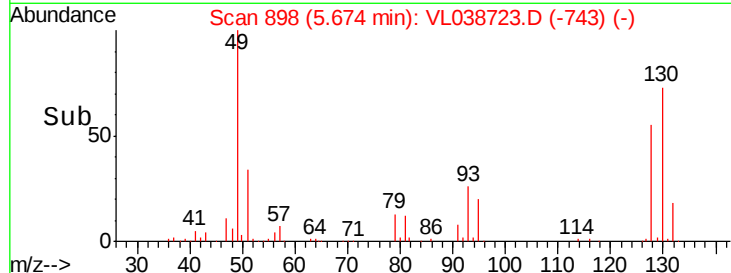
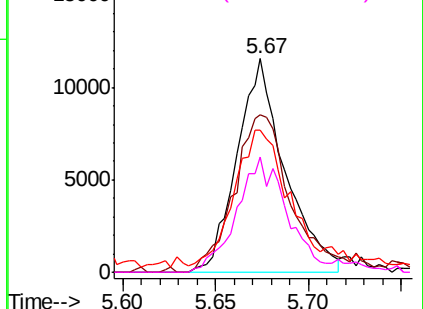


#26
Hexane
Concen: 0.221 ppbv
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 19:50

Tot Ion:	57	Resp:	20750
Ion	Ratio	Lower	Upper
57	100		
41	92.8	67.0	100.4
43	78.7	184.2	276.2#
56	60.3	42.6	64.0

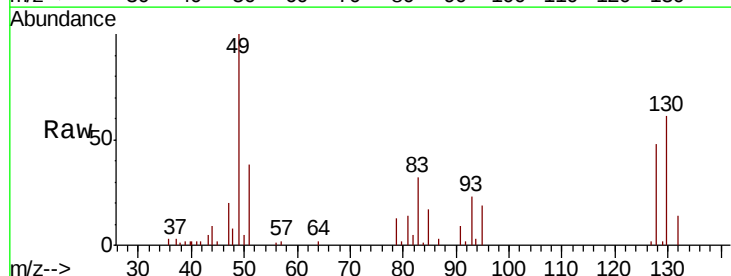


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

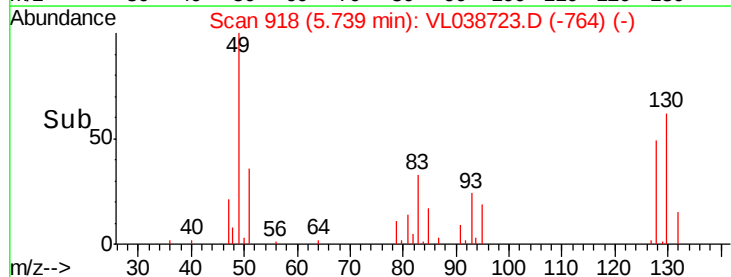
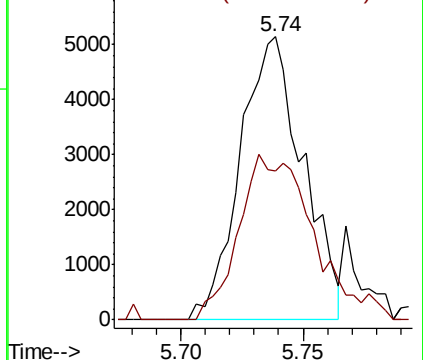


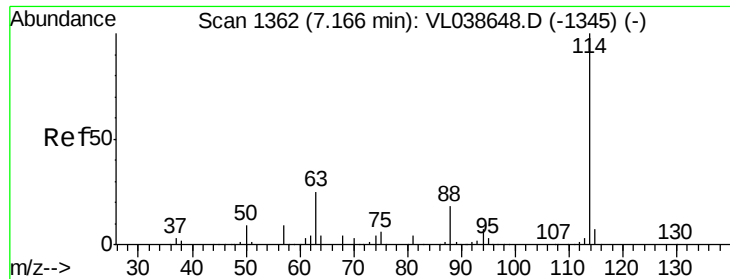
#29
Chloroform
Concen: 0.061 ppbv
RT: 5.74 min Scan# 918
Delta R.T.: -0.01 min
Lab File: VL038723.D
Acq: 23 Mar 2022 19:50

Tgt Ion:	83	Resp:	9177
Ion	Ratio	Lower	Upper
83	100		
85	52.8	51.7	77.5



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:50

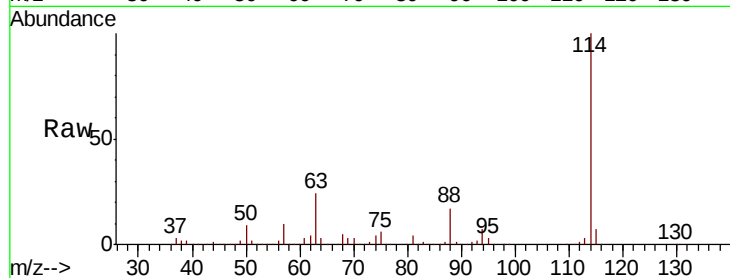
Tot Ion:114 Resp: 2545710

Ion Ratio Lower Upper

114 100

63 23.4 19.4 29.0

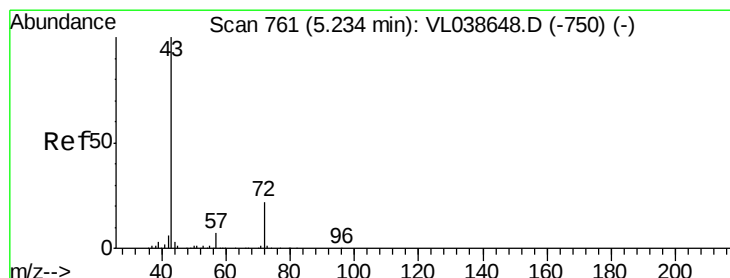
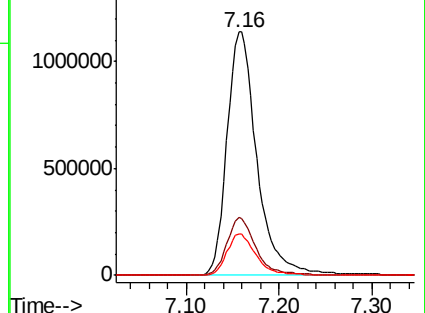
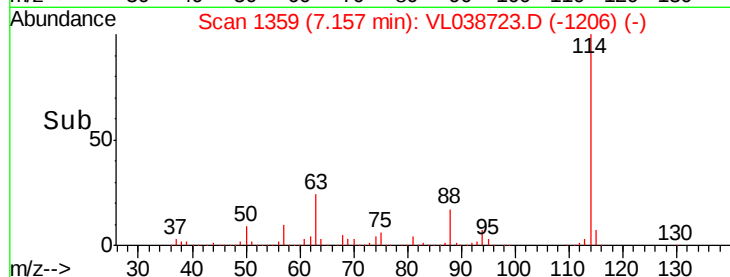
88 16.9 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.391 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.01 min

Lab File: VL038723.D

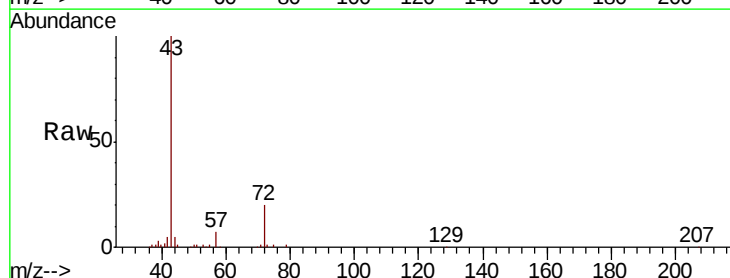
Acq: 23 Mar 2022 19:50

Tgt Ion: 43 Resp: 140193

Ion Ratio Lower Upper

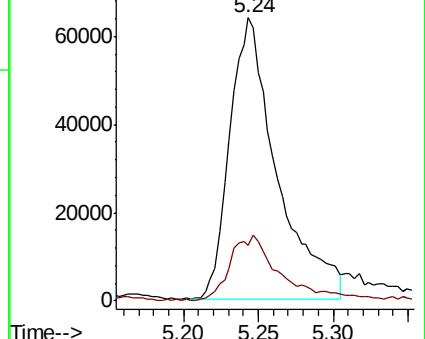
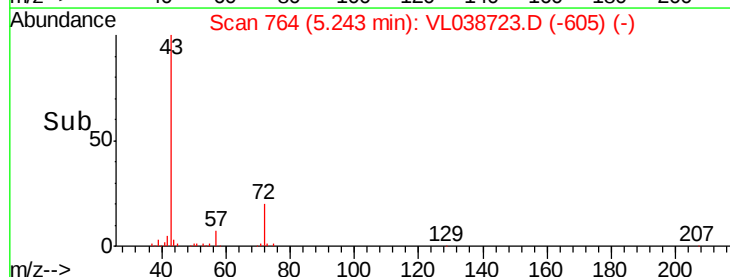
43 100

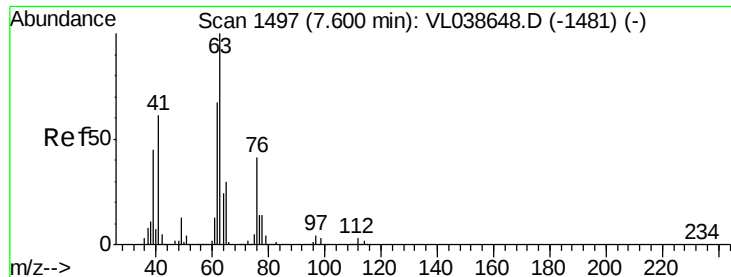
72 26.5 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

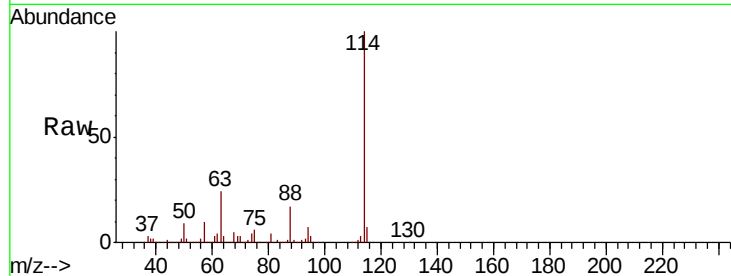
Ion 72.10 (71.80 to 72.80): VL0



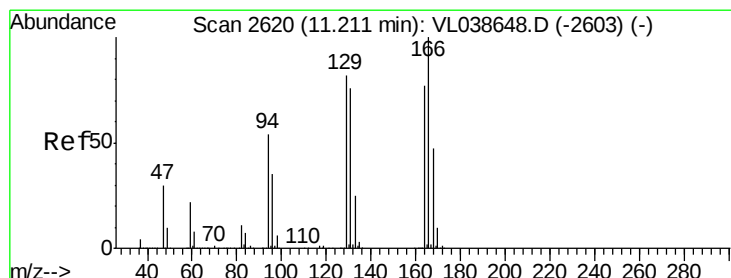
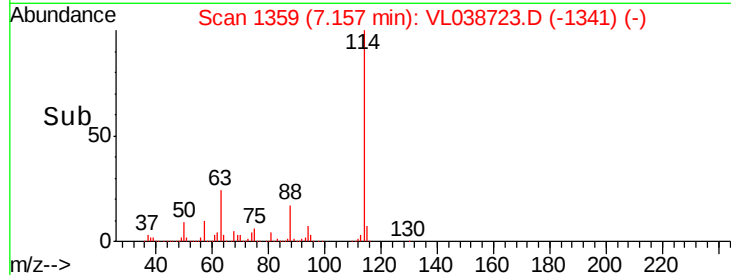
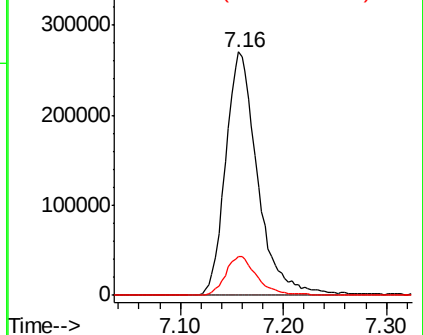


#39
 1,2-Dichloropropane
 Concen: 7.607 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 19:50

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	49.0	73.6#
62	15.8	53.9	80.9#

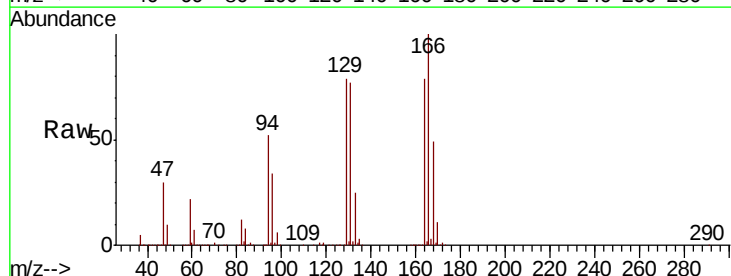


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

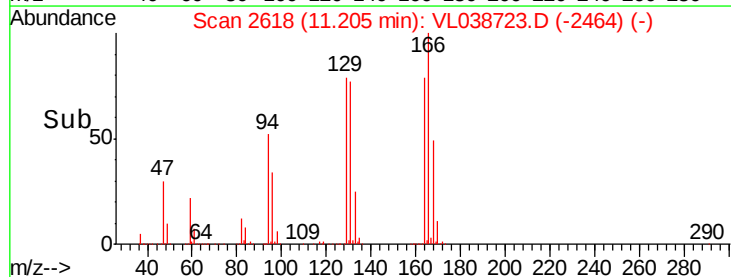
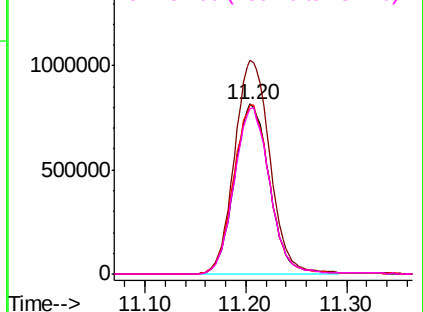


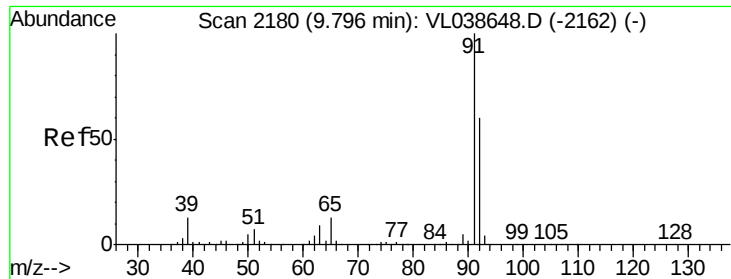
#52
 Tetrachloroethene
 Concen: 27.434 ppbv
 RT: 11.20 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: VL038723.D
 Acq: 23 Mar 2022 19:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.8	103.3	154.9
129	99.8	85.2	127.8
131	97.0	78.3	117.5



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 165.90 (165.60 to 166.60): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.043 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

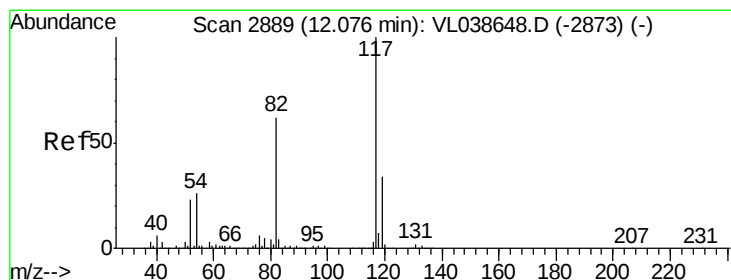
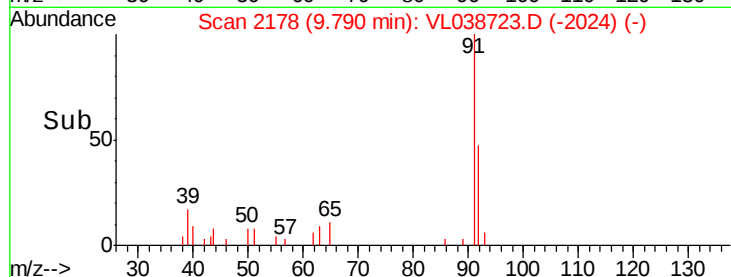
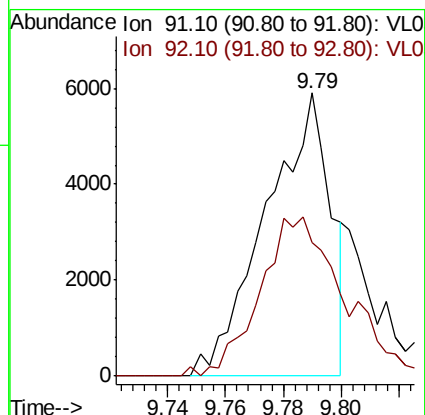
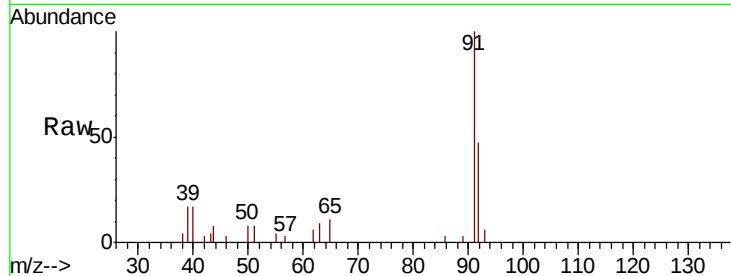
Acq: 23 Mar 2022 19:50

Tot Ion: 91 Resp: 9137

Ion Ratio Lower Upper

91 100

92 74.6 48.7 73.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL038723.D

Acq: 23 Mar 2022 19:50

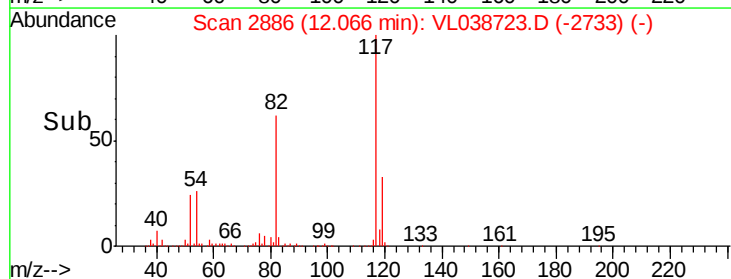
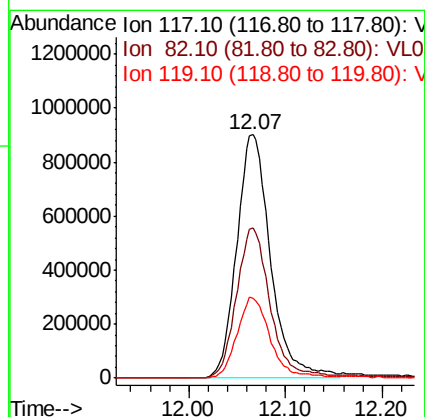
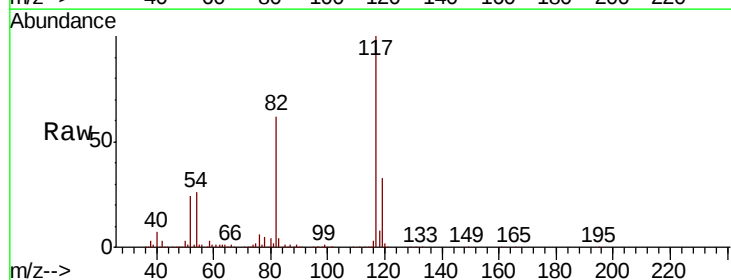
Tgt Ion: 117 Resp: 2195938

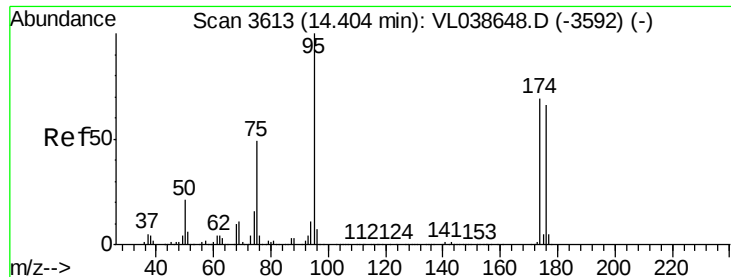
Ion Ratio Lower Upper

117 100

82 63.7 51.6 77.4

119 33.5 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.419 ppbv

RT: 14.39

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 19:30

Tot Ion: 95 Resp: 1585792

Ion Ratio Lower Upper

95 100

174 72.3 56.1 84.1

175 5.2 4.2 6.2

