

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038974.D
 Acq On : 5 May 2022 16:00
 Operator : SY/AP
 Sample : N2698-02DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: May 06 07:28:40 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1303402	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3375865	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2915078	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2254261	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

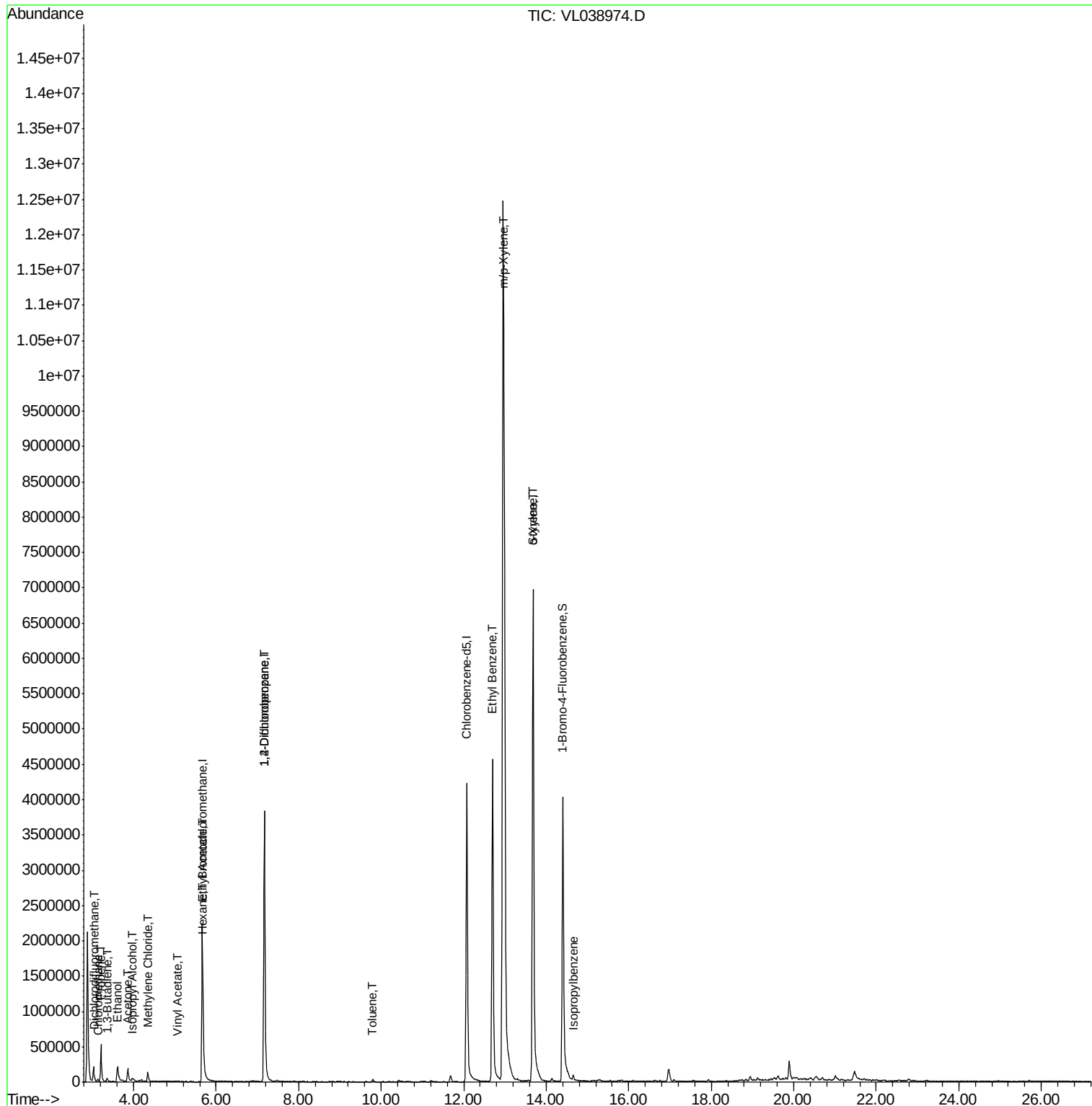
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	19599	0.096	ppbv	98
4) Chloromethane	3.14	50	7480	0.092	ppbv #	79
9) Propene	3.21	41	189785	2.687	ppbv	93
13) Ethanol	3.61	45	318625	57.768	ppbv	92
15) Acetone	3.85	43	221530	1.802	ppbv	92
16) 1,3-Butadiene	3.35	39	4298	0.061	ppbv #	26
19) Isopropyl Alcohol	3.98	45	10116	0.173	ppbv #	95
20) Methylene Chloride	4.35	84	49565	1.070	ppbv	94
23) Vinyl Acetate	5.06	43	3610	0.037	ppbv #	1
25) Ethyl Acetate	5.68	43	57057	0.194	ppbv #	79
26) Hexane	5.69	57	78081	0.597	ppbv #	41
39) 1,2-Dichloropropane	7.17	63	852311	7.582	ppbv #	25
53) Toluene	9.79	91	12552	0.039	ppbv #	21
58) Ethyl Benzene	12.70	91	4712080	11.232	ppbv	100
59) m/p-Xylene	12.96	91	15198715	42.438	ppbv	88
60) o-Xylene	13.68	91	6220336	18.454	ppbv	96
61) Styrene	13.68	104	128564	0.714	ppbv #	1
62) Isopropylbenzene	14.65	105	59801	0.139	ppbv	94

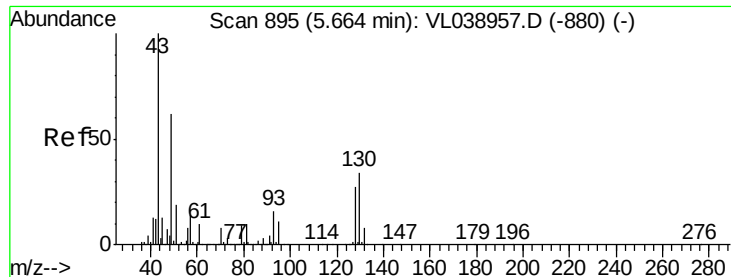
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 16:00

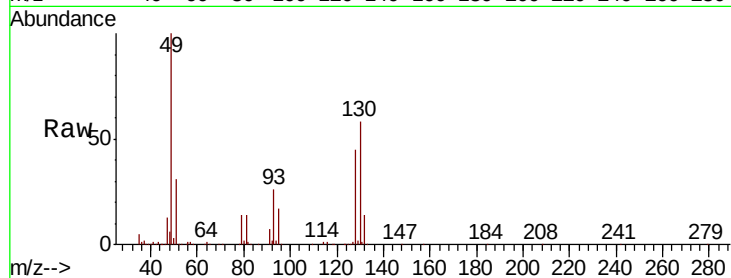
Tot Ion: 49 Resp: 1303402

Ion Ratio Lower Upper

49 100

128 47.9 23.3 69.8

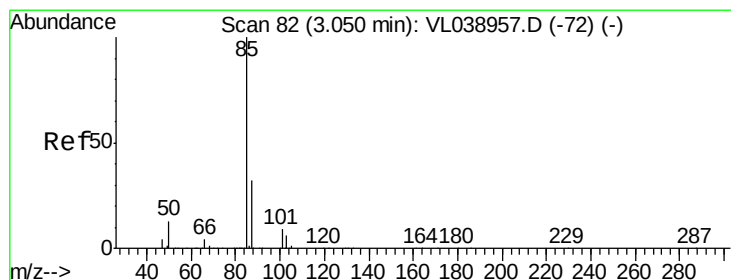
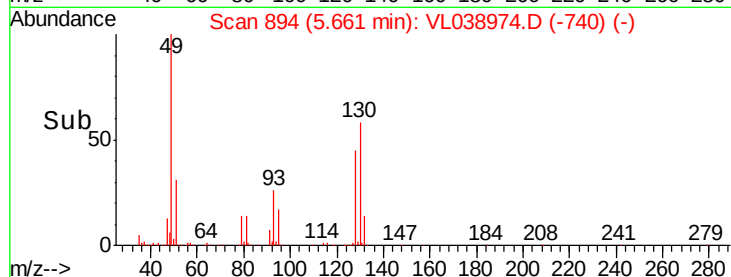
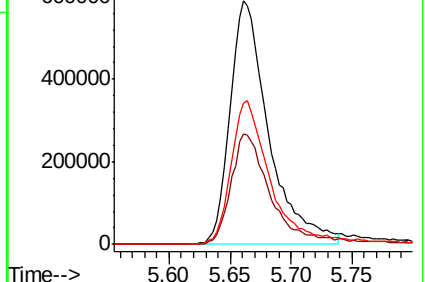
130 62.0 29.8 89.3



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: 0.096 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL038974.D

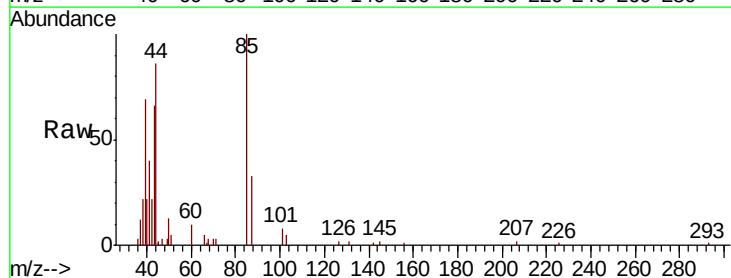
Acq: 5 May 2022 16:00

Tgt Ion: 85 Resp: 19599

Ion Ratio Lower Upper

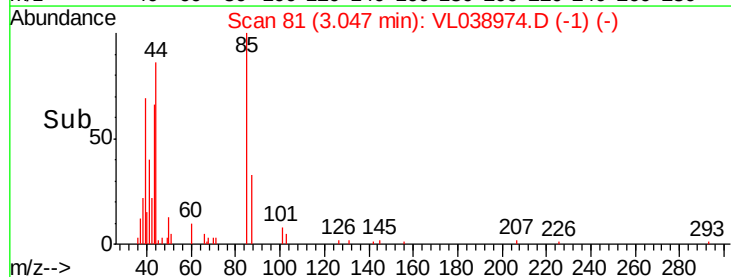
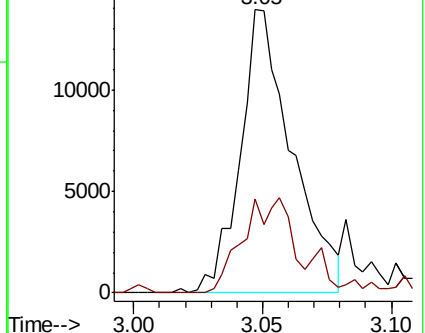
85 100

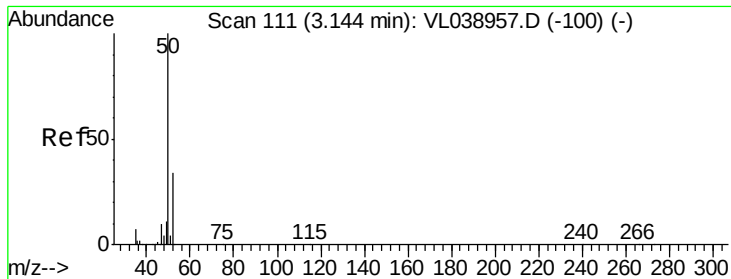
87 33.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.092 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

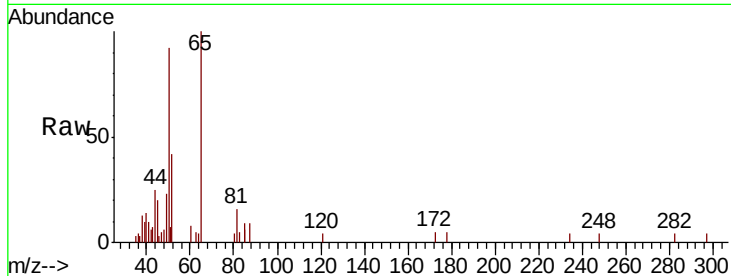
Acq: 5 May 2022 16:00

Tot Ion: 50 Resp: 7480

Ion Ratio Lower Upper

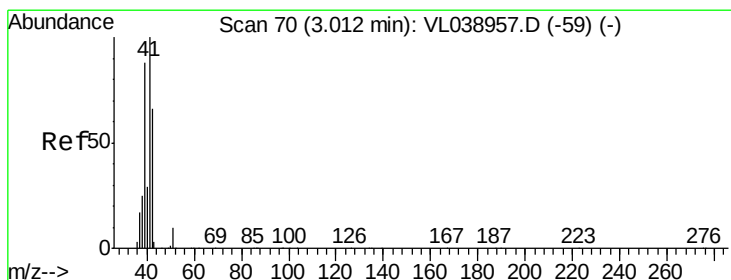
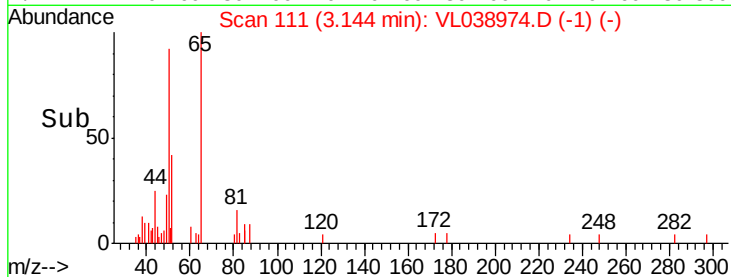
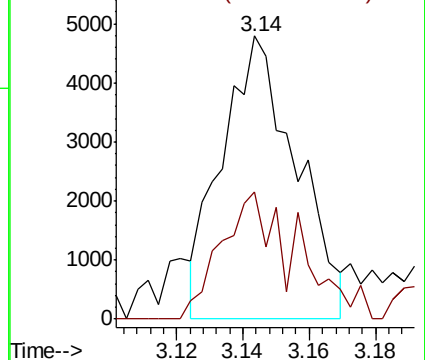
50 100

52 46.3 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 2.687 ppbv

RT: 3.21 min Scan# 131

Delta R.T. 0.20 min

Lab File: VL038974.D

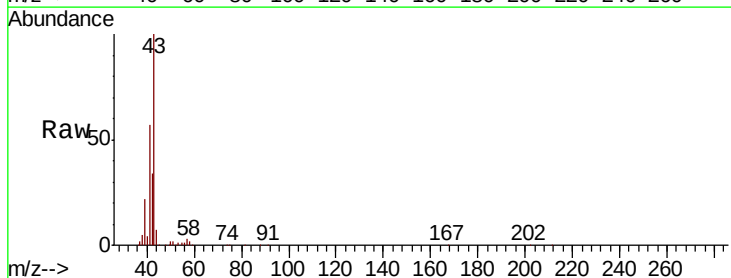
Acq: 5 May 2022 16:00

Tgt Ion: 41 Resp: 189785

Ion Ratio Lower Upper

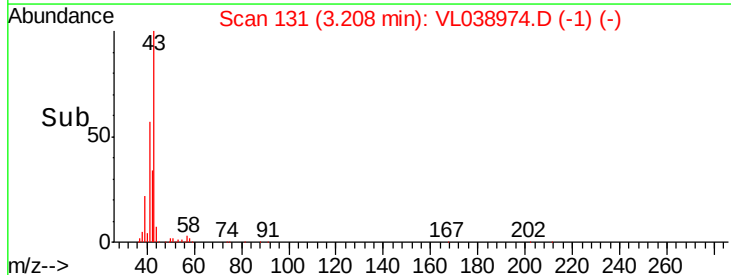
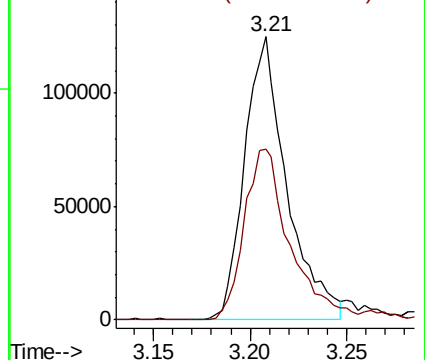
41 100

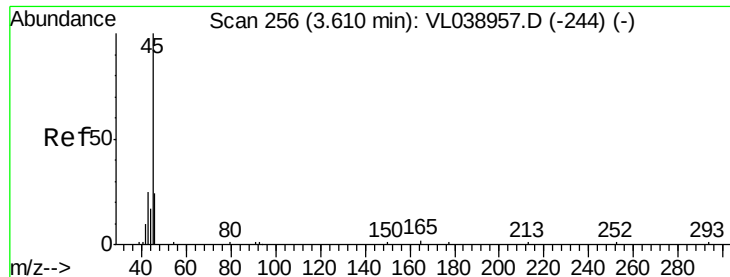
42 66.8 58.3 87.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

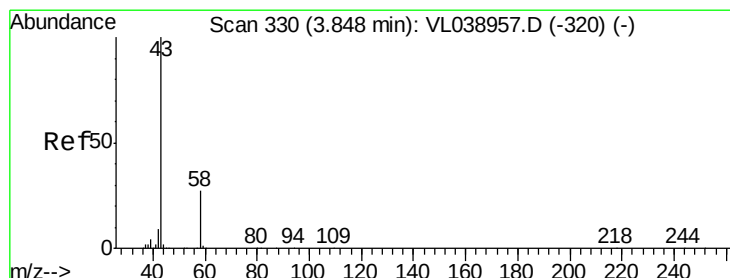
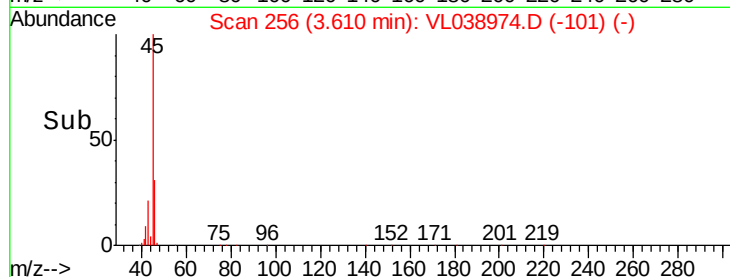
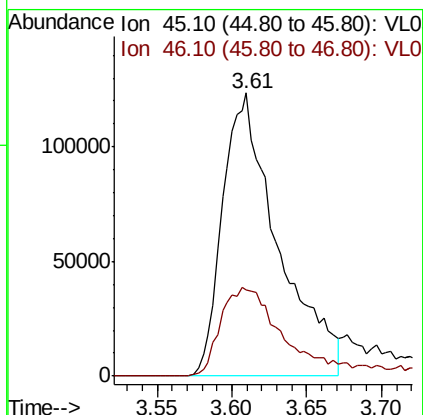
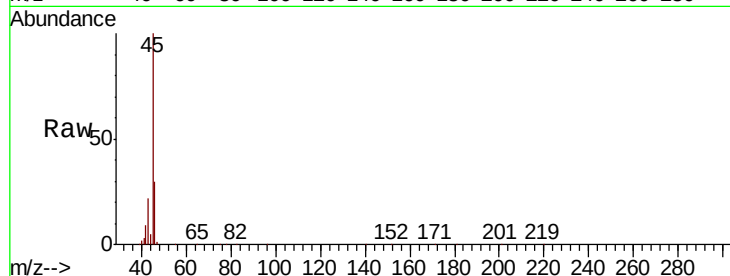
Ion 42.10 (41.80 to 42.80): VL0





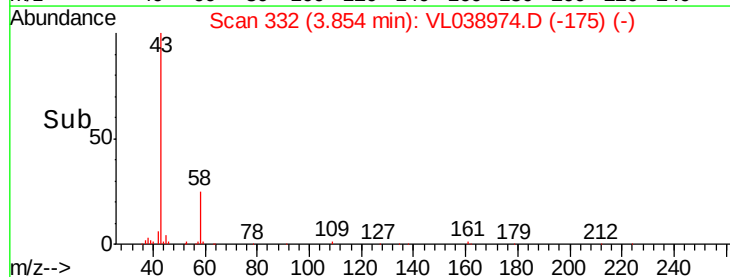
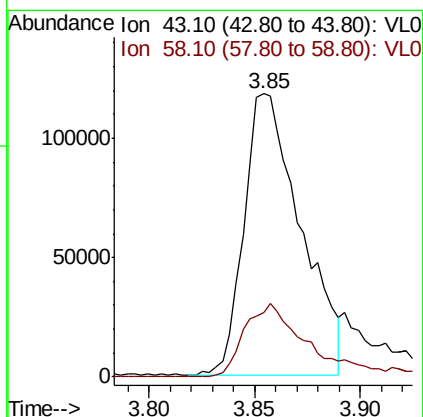
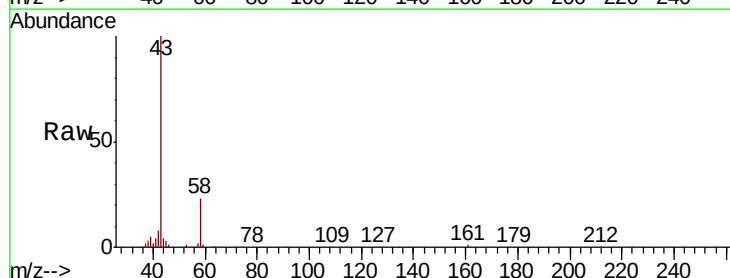
#13
Ethanol
Concen: 57.768 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 16:00

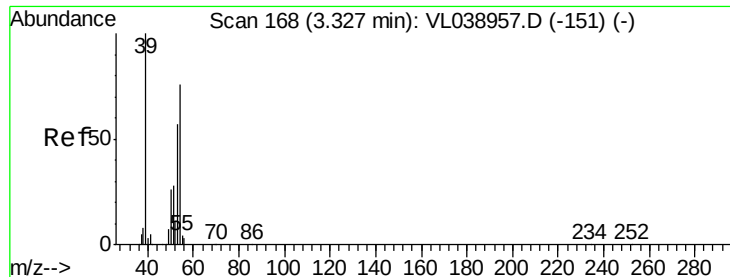
Tot Ion: 45 Resp: 318625
Ion Ratio Lower Upper
45 100
46 39.7 18.0 72.2



#15
Acetone
Concen: 1.802 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL038974.D
Acq: 5 May 2022 16:00

Tgt Ion: 43 Resp: 221530
Ion Ratio Lower Upper
43 100
58 30.9 21.3 31.9





#16

1,3-Butadiene

Concen: 0.061 ppbv

RT: 3.35 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

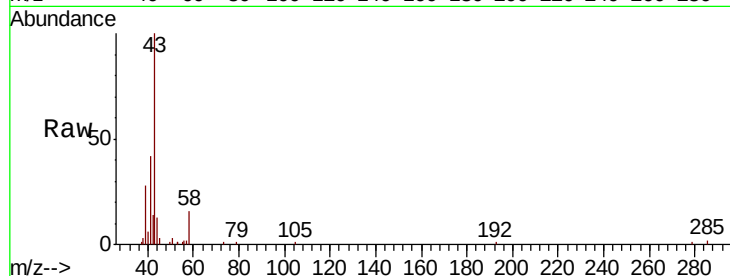
Acq: 5 May 2022 16:00

Tot Ion: 39 Resp: 4298

Ion Ratio Lower Upper

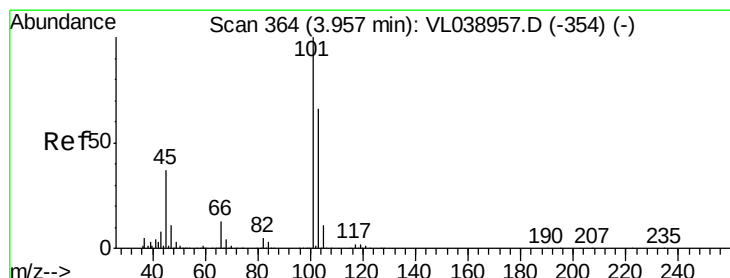
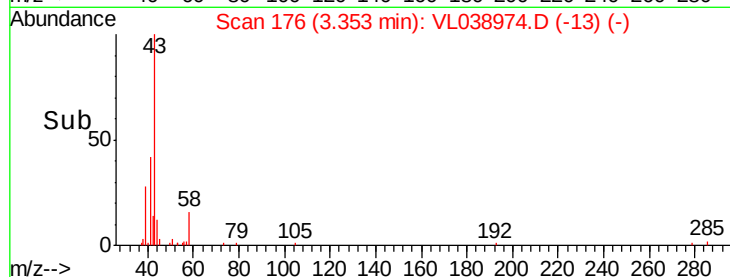
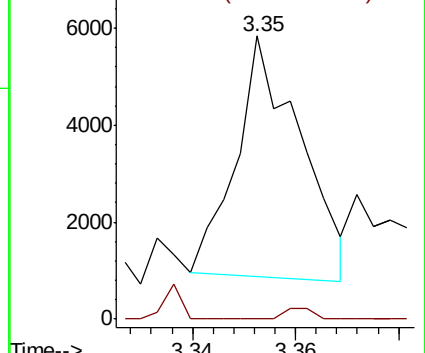
39 100

54 15.2 65.2 97.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#19

Isopropyl Alcohol

Concen: 0.173 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL038974.D

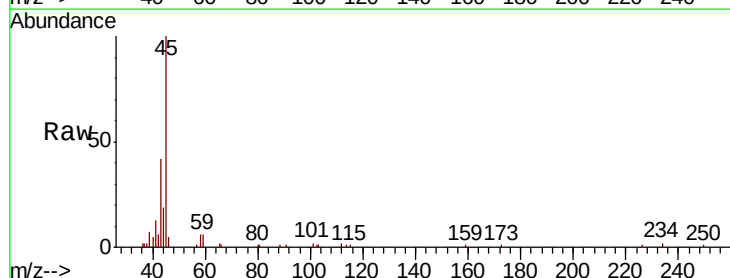
Acq: 5 May 2022 16:00

Tgt Ion: 45 Resp: 10116

Ion Ratio Lower Upper

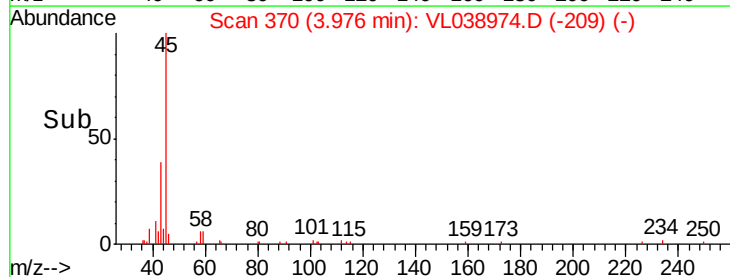
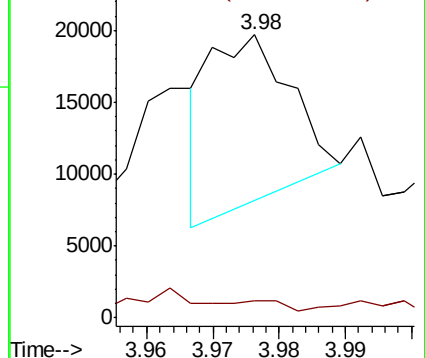
45 100

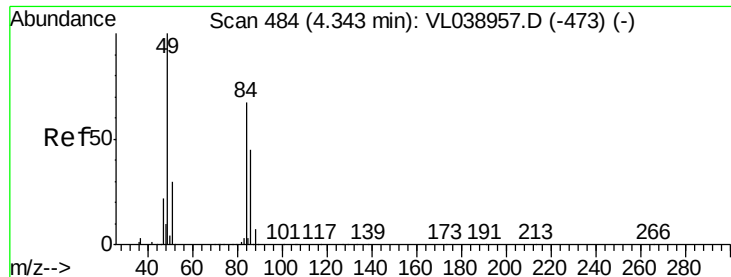
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

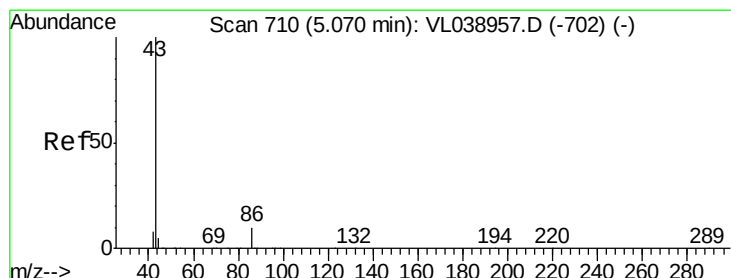
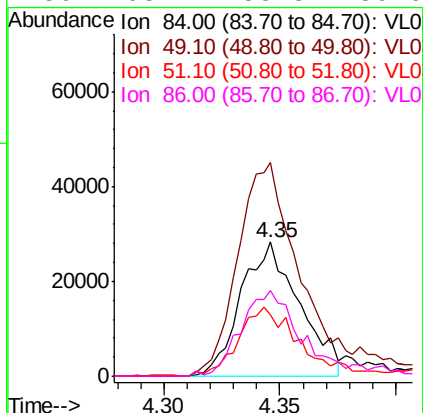
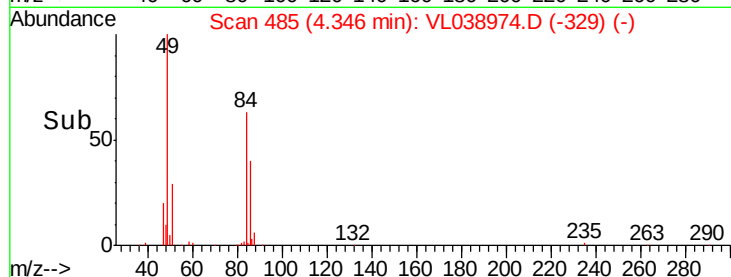
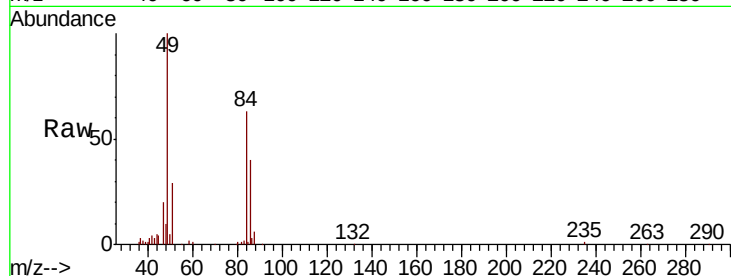
Ion 58.10 (57.80 to 58.80): VL0





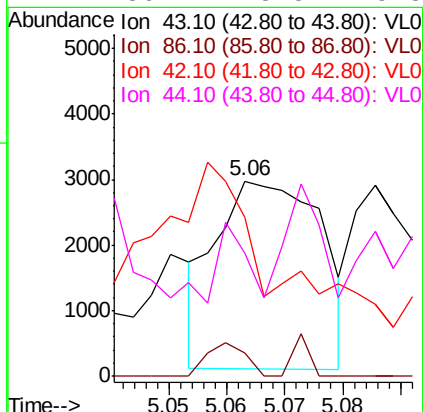
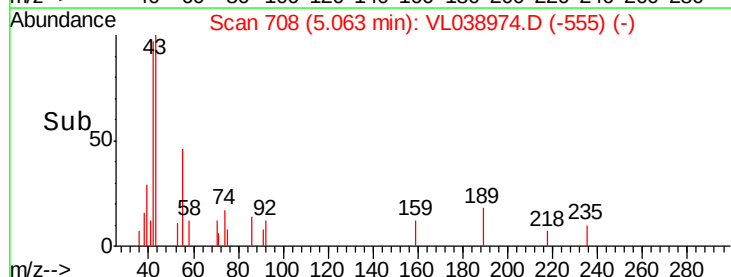
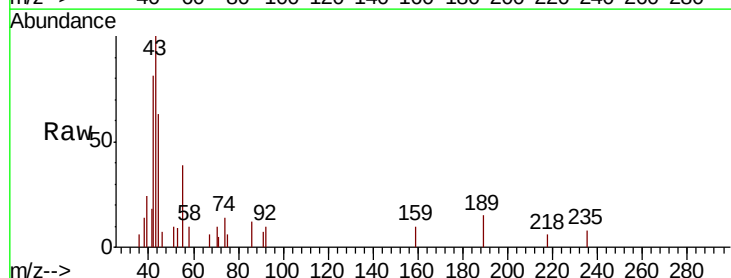
#20
Methylene Chloride
Concen: 1.070 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 16:00

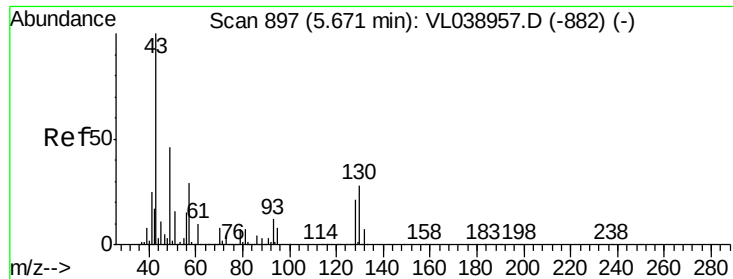
Tot Ion:	84	Resp:	49565
Ion	Ratio	Lower	Upper
84	100		
49	159.1	119.9	179.9
51	45.3	35.7	53.5
86	63.1	53.8	80.6



#23
Vinyl Acetate
Concen: 0.037 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.01 min
Lab File: VL038974.D
Acq: 5 May 2022 16:00

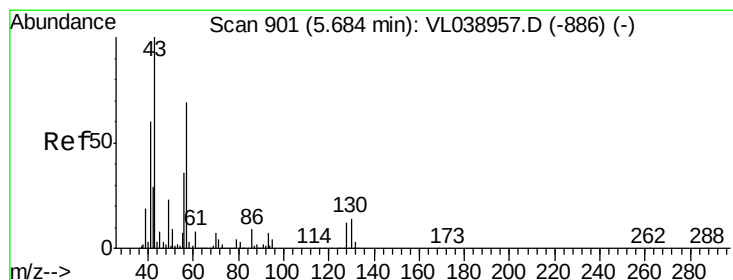
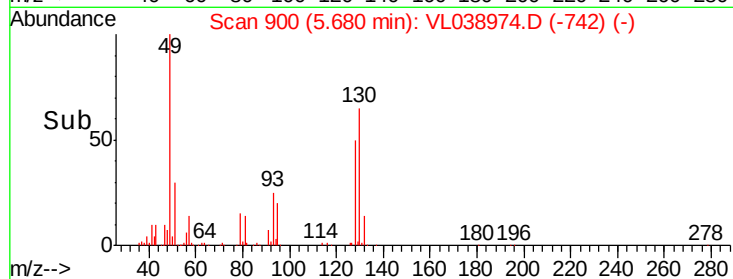
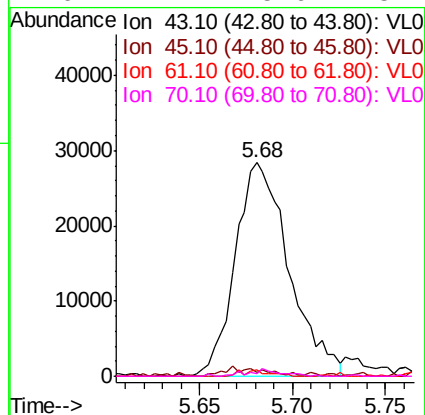
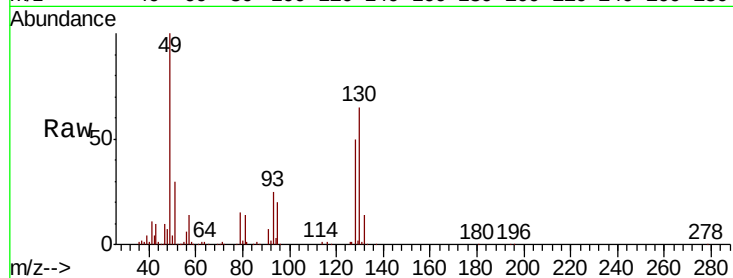
Tgt Ion:	43	Resp:	3610
Ion	Ratio	Lower	Upper
43	100		
86	23.8	6.6	9.8#
42	68.5	8.1	12.1#
44	30.7	3.5	5.3#





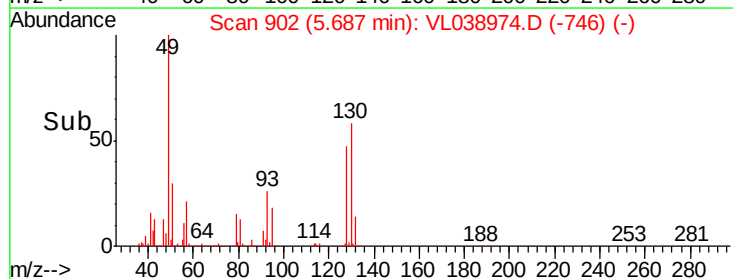
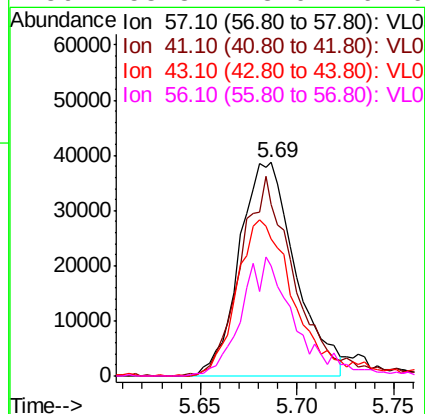
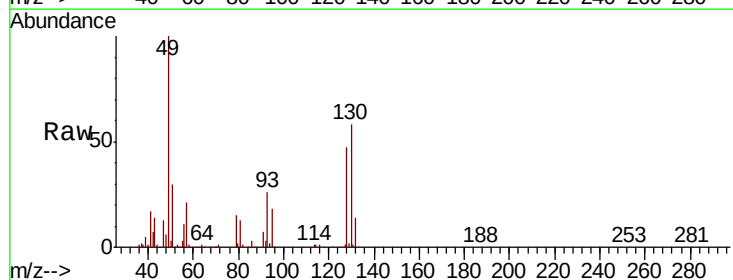
#25
Ethyl Acetate
Concen: 0.194 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 16:00

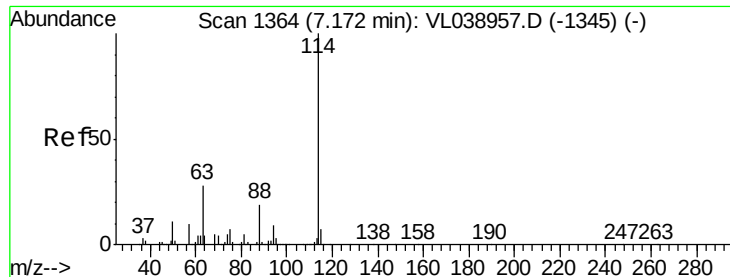
Tot Ion:	43	Resp:	57057
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.1	12.1#
61	0.0	7.8	11.6#
70	2.2	5.6	8.4#



#26
Hexane
Concen: 0.597 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL038974.D
Acq: 5 May 2022 16:00

Tgt Ion:	57	Resp:	78081
Ion	Ratio	Lower	Upper
57	100		
41	91.9	75.2	112.8
43	79.1	190.8	286.2#
56	53.8	43.0	64.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 16:00

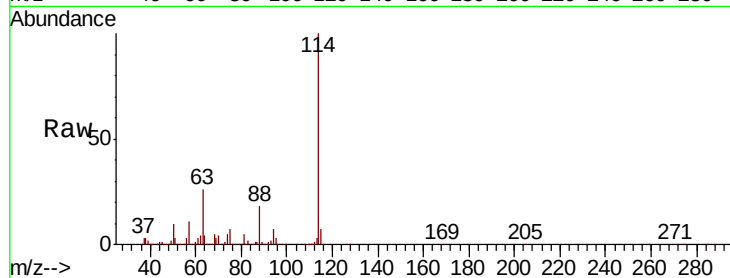
Tot Ion:114 Resp: 3375865

Ion Ratio Lower Upper

114 100

63 25.9 22.6 33.8

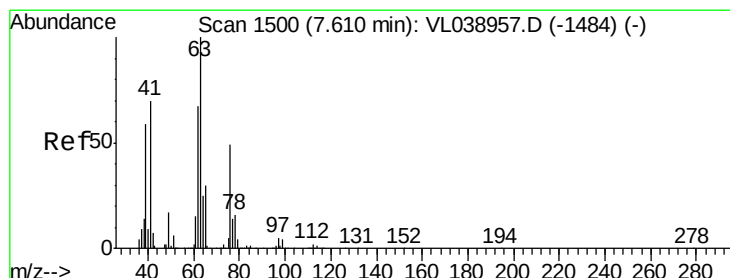
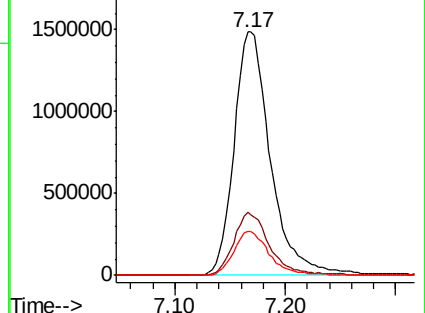
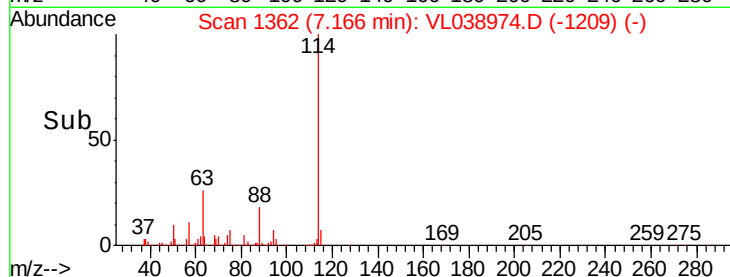
88 18.4 15.4 23.0



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



#39

1,2-Dichloropropane

Concen: 7.582 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.44 min

Lab File: VL038974.D

Acq: 5 May 2022 16:00

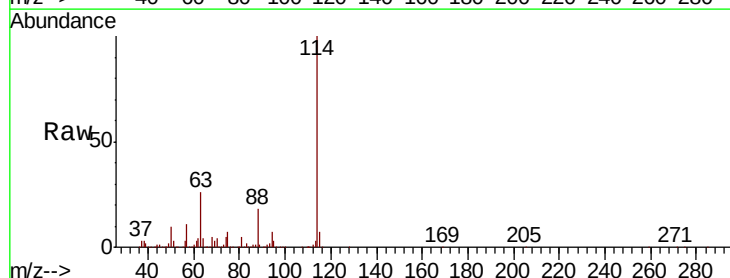
Tgt Ion: 63 Resp: 852311

Ion Ratio Lower Upper

63 100

41 0.0 55.9 83.9#

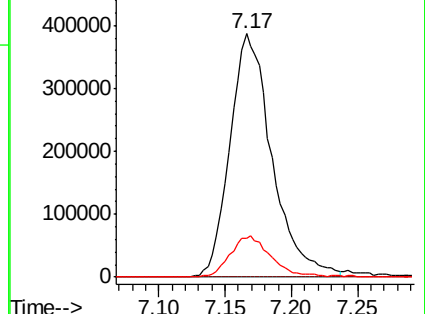
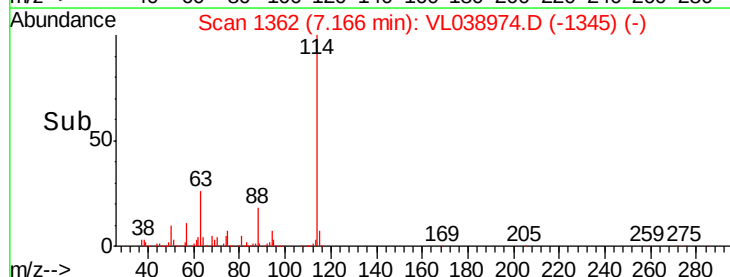
62 15.8 53.8 80.6#

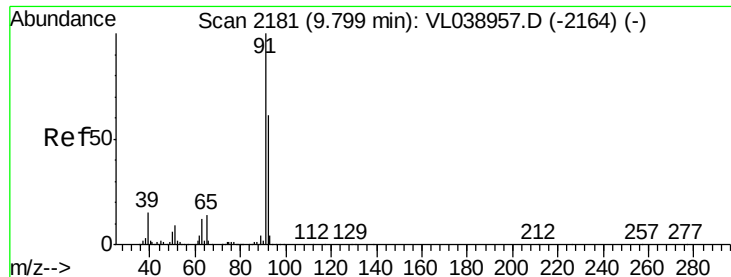


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.039 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

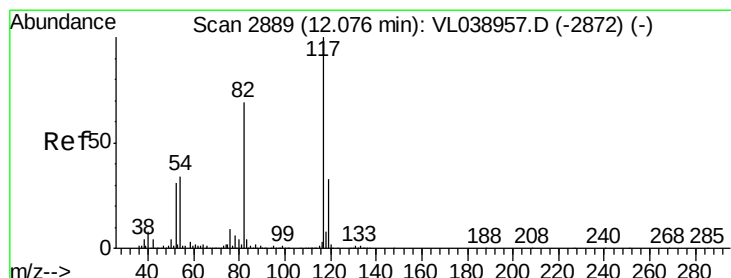
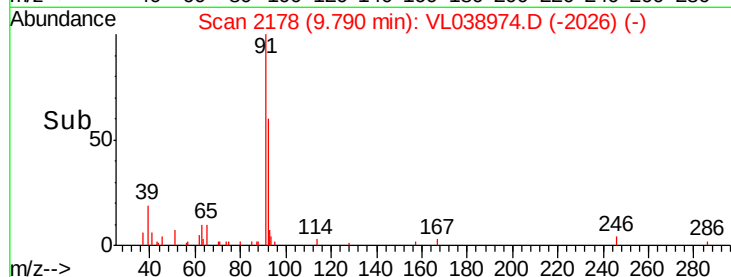
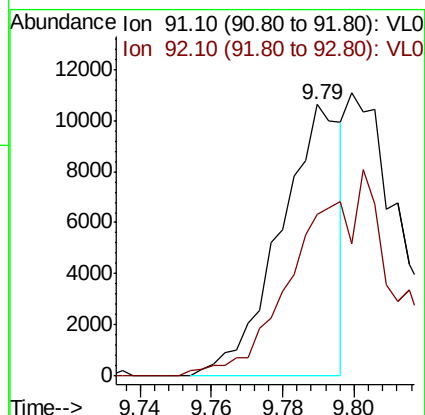
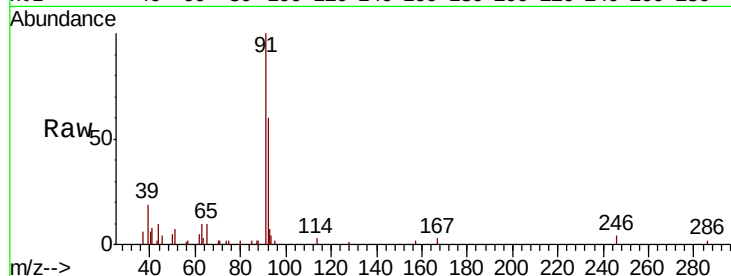
Acq: 5 May 2022 16:00

Tot Ion: 91 Resp: 12552

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038974.D

Acq: 5 May 2022 16:00

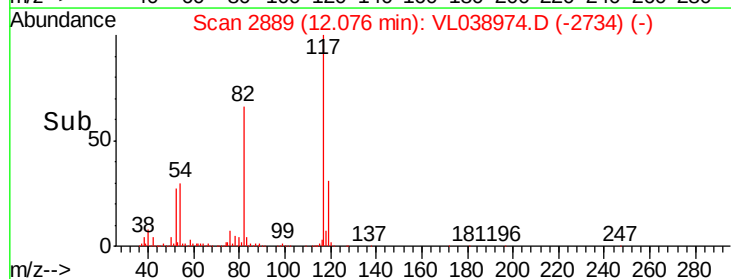
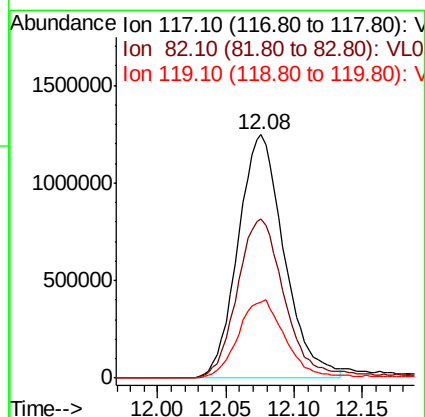
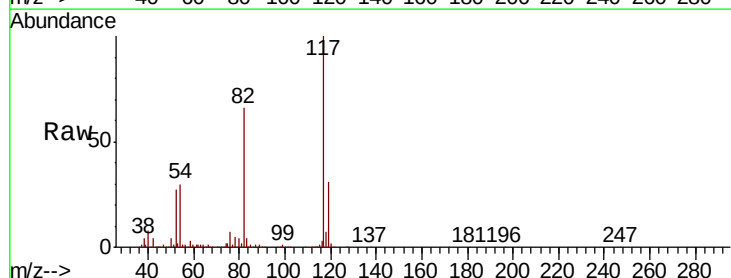
Tgt Ion: 117 Resp: 2915078

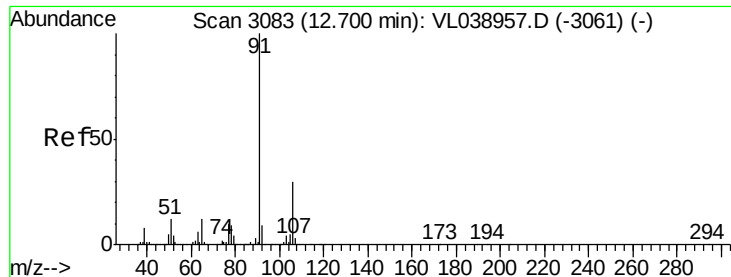
Ion Ratio Lower Upper

117 100

82 70.4 57.0 85.6

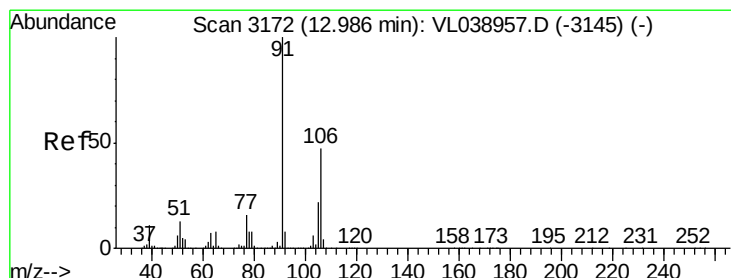
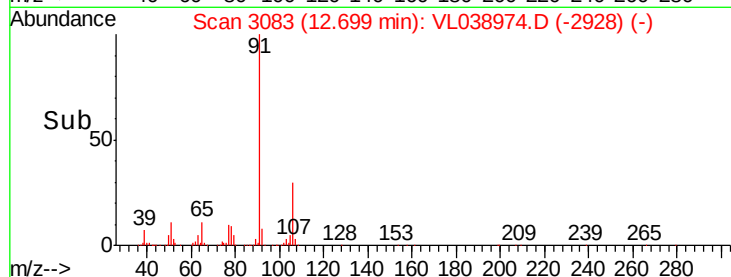
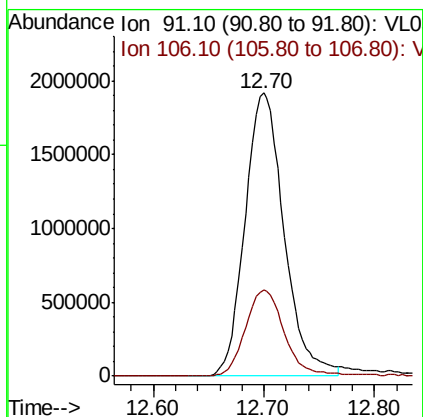
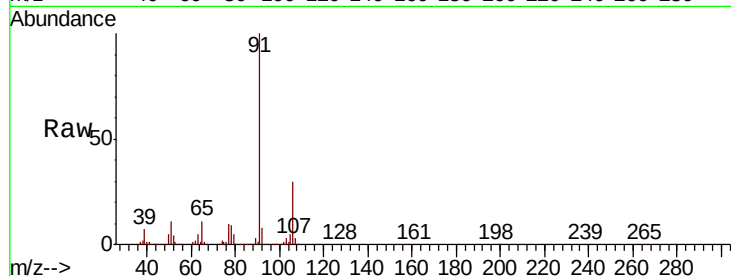
119 34.3 27.2 40.8





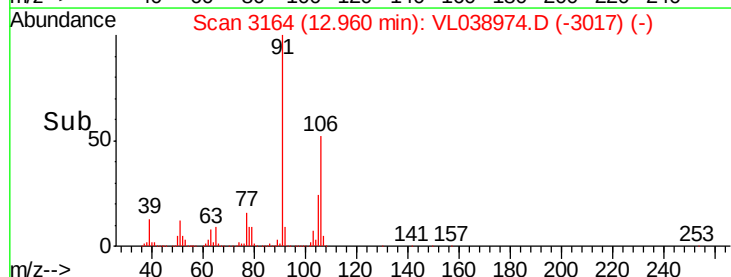
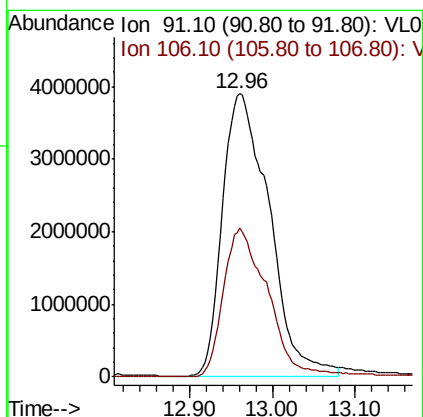
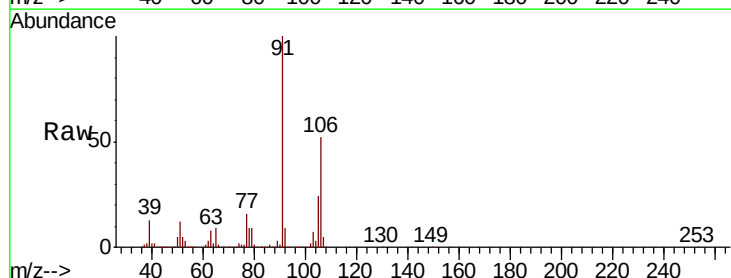
#58
Ethyl Benzene
Concen: 11.232 ppbv
RT: 12.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 5 May 2022 16:00

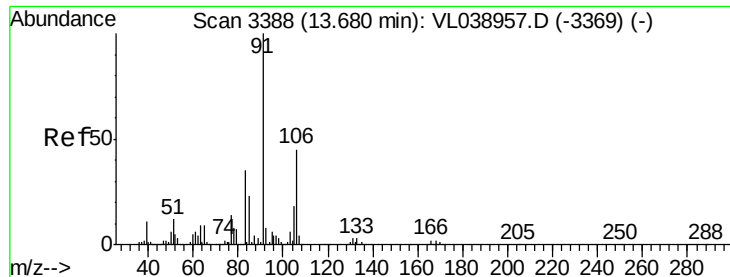
Tot Ion: 91 Resp: 4712080
Ion Ratio Lower Upper
91 100
106 30.3 24.2 36.4



#59
m/p-Xylene
Concen: 42.438 ppbv
RT: 12.96 min Scan# 3164
Delta R.T.: -0.03 min
Lab File: VL038974.D
Acq: 5 May 2022 16:00

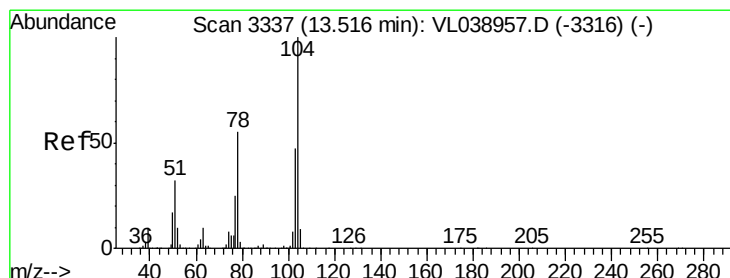
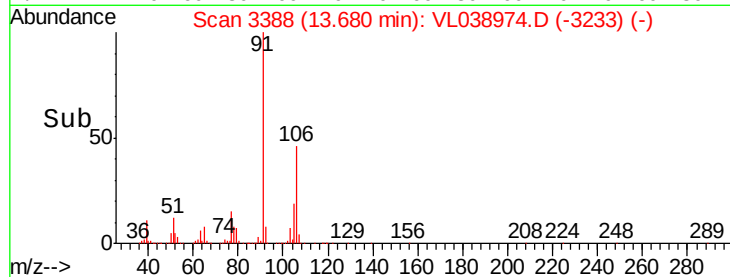
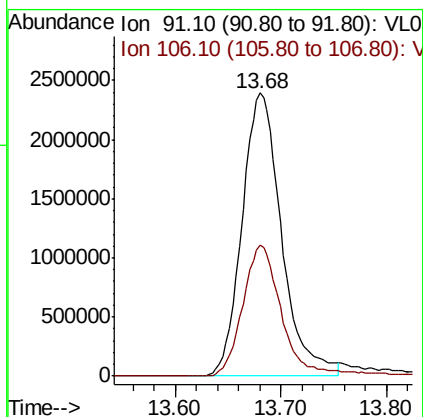
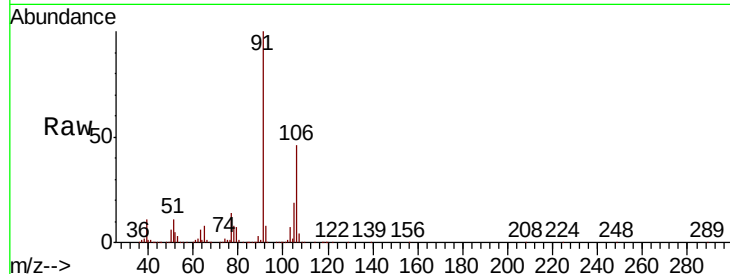
Tgt Ion: 91 Resp: 15198715
Ion Ratio Lower Upper
91 100
106 50.9 34.6 52.0





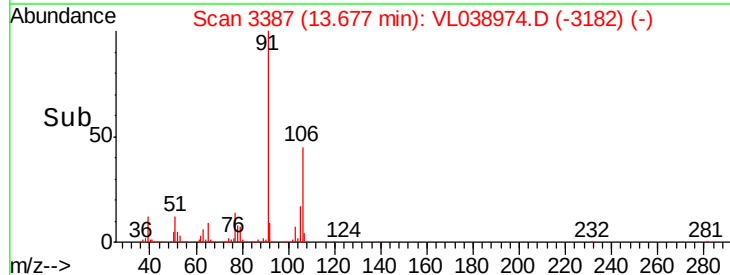
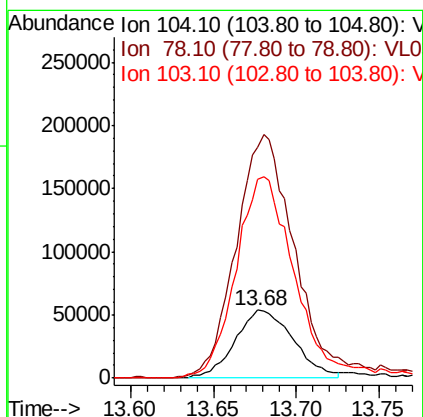
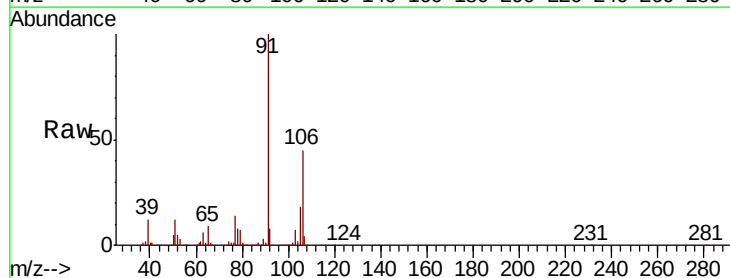
#60
o-Xylene
Concen: 18.454 ppbv
RT: 13.68 min
Delta R.T. 0.16 min
Lab File: VL038974.D
Acq: 5 May 2022 16:00

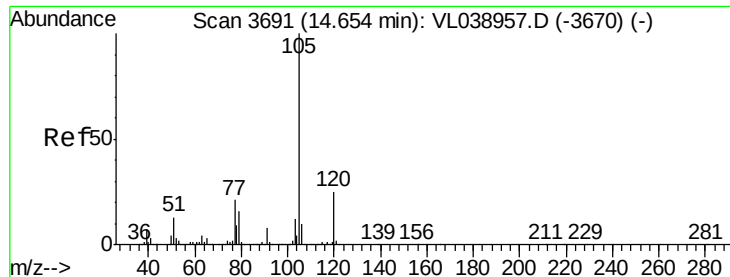
Tot Ion: 91 Resp: 6220336
Ion Ratio Lower Upper
91 100
106 46.9 22.2 66.6



#61
Styrene
Concen: 0.714 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. 0.16 min
Lab File: VL038974.D
Acq: 5 May 2022 16:00

Tgt Ion: 104 Resp: 128564
Ion Ratio Lower Upper
104 100
78 393.1 46.4 69.6#
103 304.9 39.3 58.9#





#62

Isopropylbenzene

Concen: 0.139 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

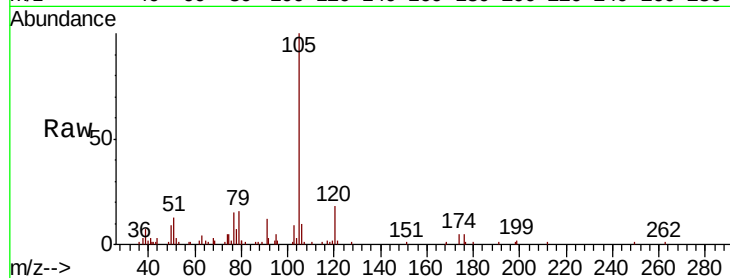
Acq: 5 May 2022 16:00

Tot Ion: 105 Resp: 59801

Ion Ratio Lower Upper

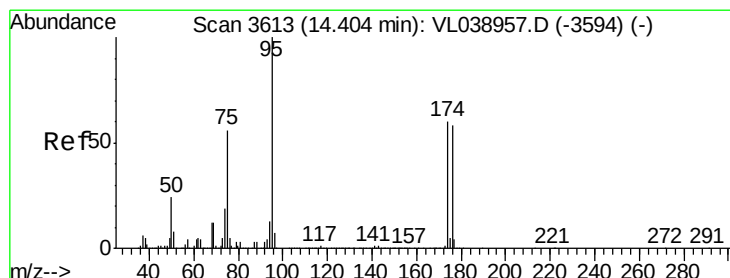
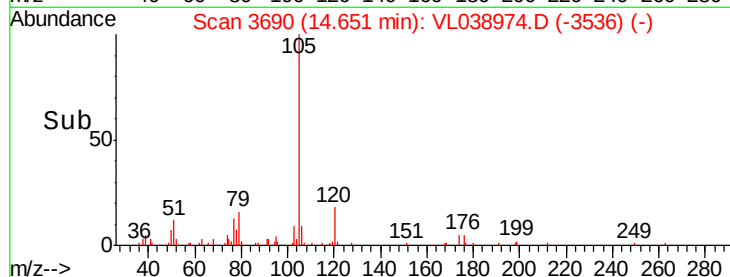
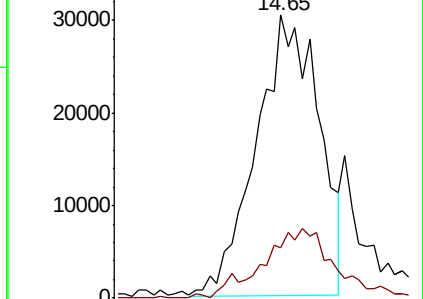
105 100

120 28.6 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.765 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.00 min

Lab File: VL038974.D

Acq: 5 May 2022 16:00

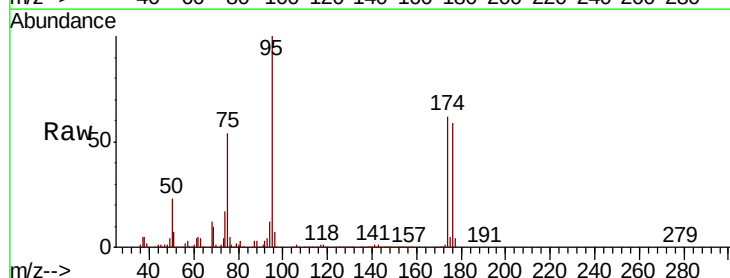
Tgt Ion: 95 Resp: 2254261

Ion Ratio Lower Upper

95 100

174 67.0 50.8 76.2

175 4.7 3.8 5.6



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

