

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039060.D
 Acq On : 14 May 2022 6:35
 Operator : SY/AP
 Sample : N2828-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Quant Time: May 14 07:19:54 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 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	951570	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2641775	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	2233480	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1657039	9.37	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%	

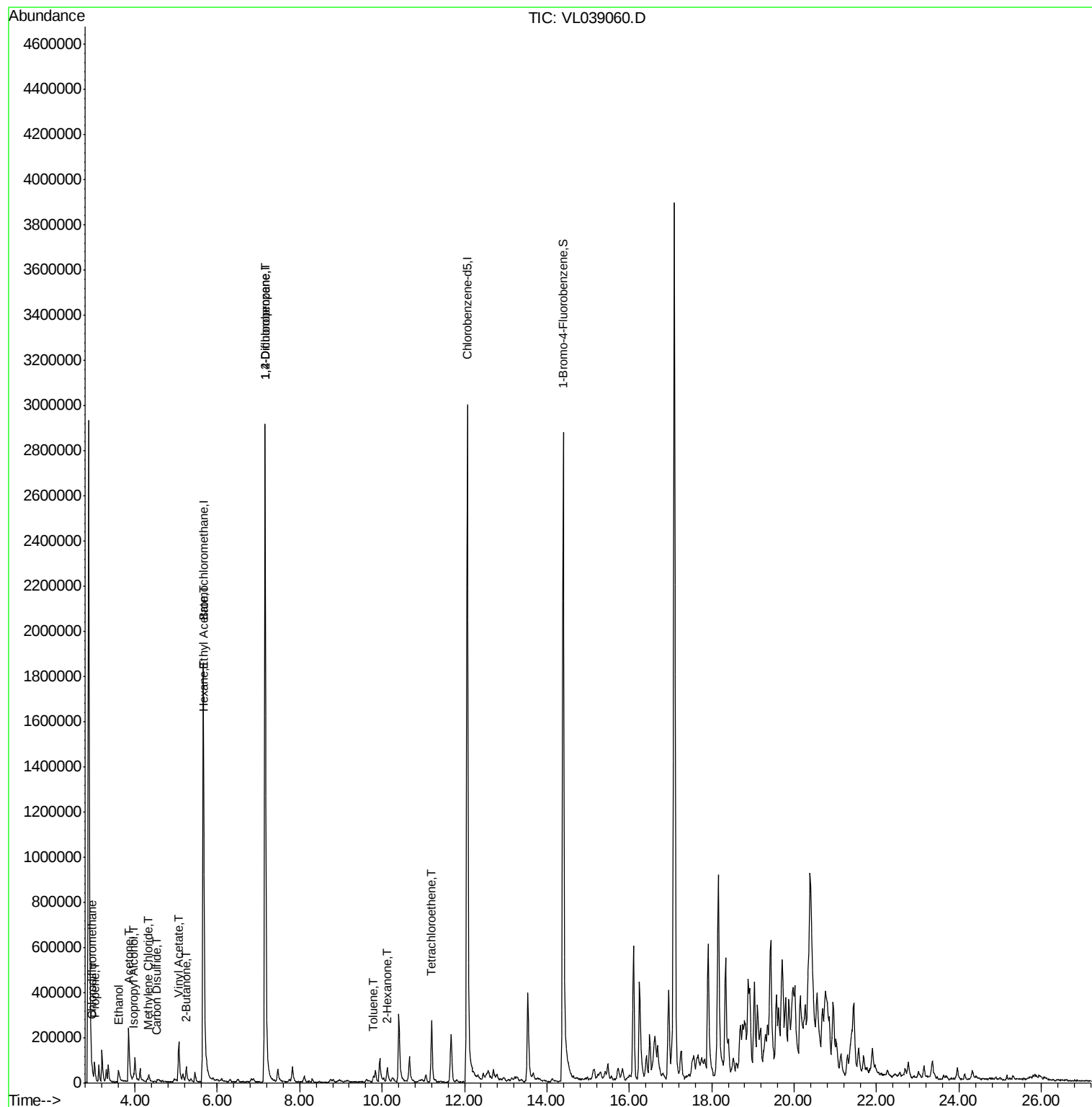
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	27794	0.235	ppbv #	72
9) Propene	3.01	41	27671	0.537	ppbv	84
13) Ethanol	3.61	45	40662	11.143	ppbv #	31
15) Acetone	3.85	43	319613	3.561	ppbv	94
19) Isopropyl Alcohol	3.97	45	27869	0.653	ppbv #	74
20) Methylene Chloride	4.34	84	9775	0.289	ppbv #	78
23) Vinyl Acetate	5.06	43	288049	4.056	ppbv #	96
25) Ethyl Acetate	5.67	43	84699	0.394	ppbv #	83
26) Hexane	5.68	57	113600	1.190	ppbv #	20
27) Carbon Disulfide	4.54	76	3062	0.034	ppbv #	63
34) 2-Butanone	5.24	43	85672	0.636	ppbv #	91
39) 1,2-Dichloropropane	7.16	63	618197	7.028	ppbv #	25
51) 2-Hexanone	10.13	43	53140	0.308	ppbv #	76
52) Tetrachloroethene	11.20	164	31143	0.385	ppbv	97
53) Toluene	9.79	91	9050	0.036	ppbv #	21

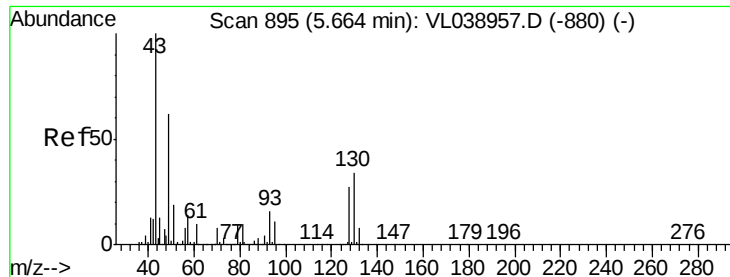
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
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QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV3DL

Acq: 14 May 2022 8:35

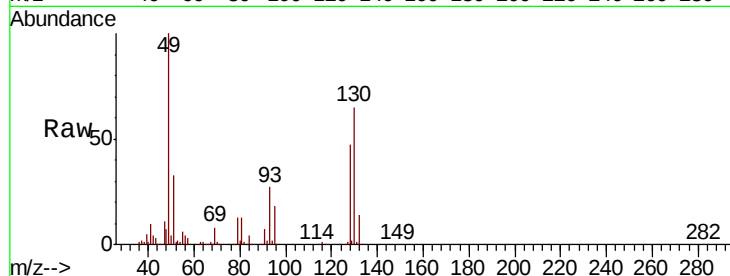
Tot Ion: 49 Resp: 951570

Ion Ratio Lower Upper

49 100

128 48.7 23.3 69.8

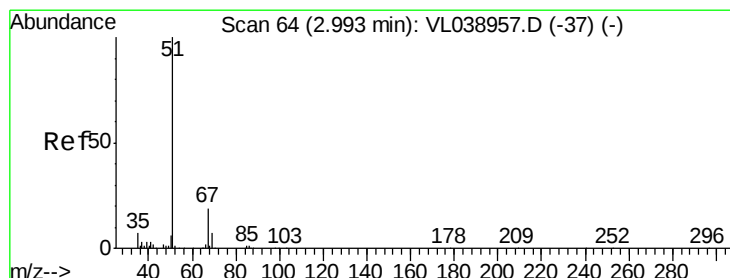
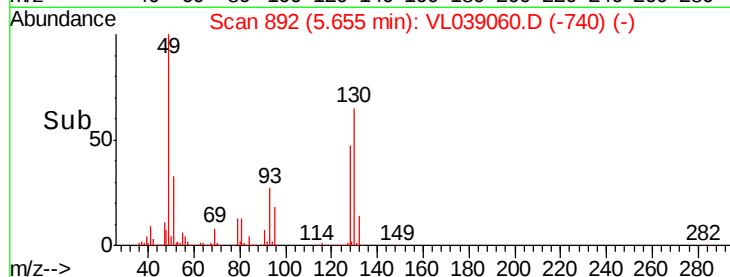
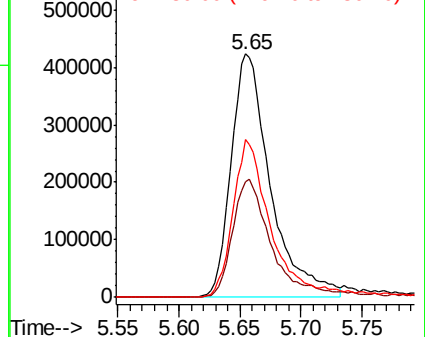
130 66.0 29.8 89.3



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



#3

Chlorodifluoromethane

Concen: 0.235 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL039060.D

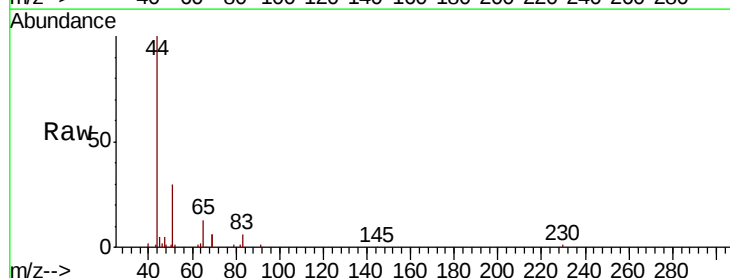
Acq: 14 May 2022 6:35

Tgt Ion: 51 Resp: 27794

Ion Ratio Lower Upper

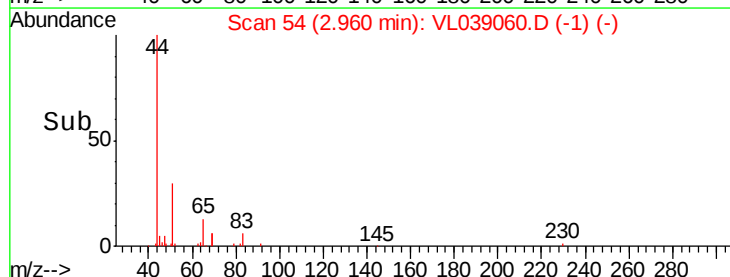
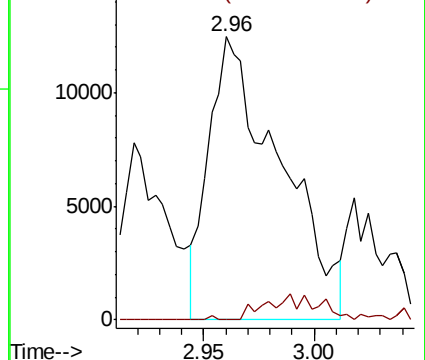
51 100

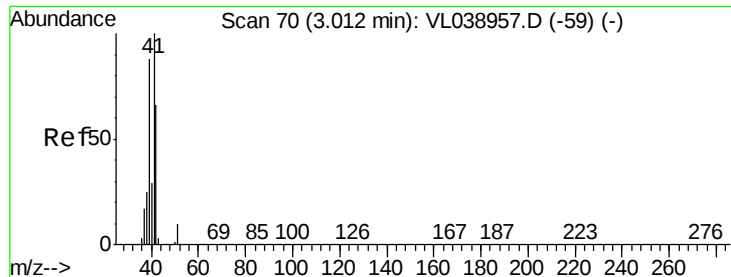
67 7.2 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

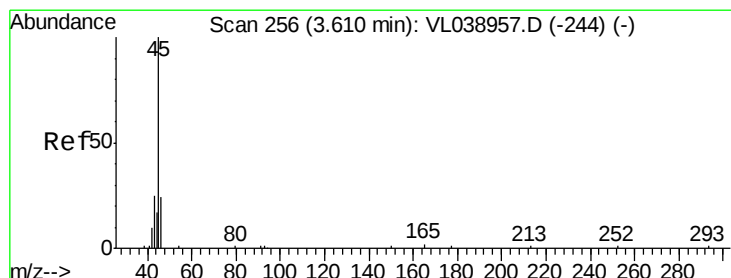
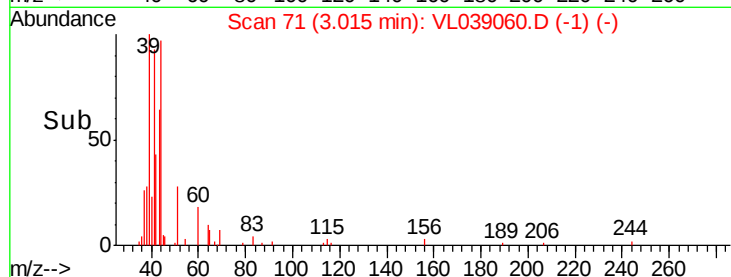
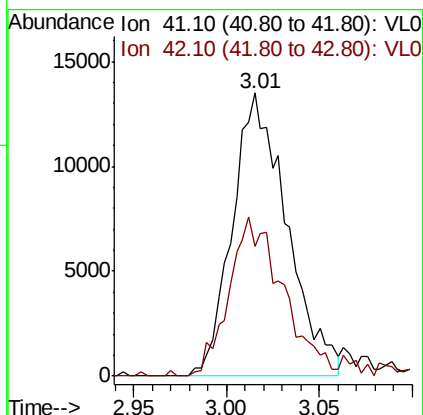
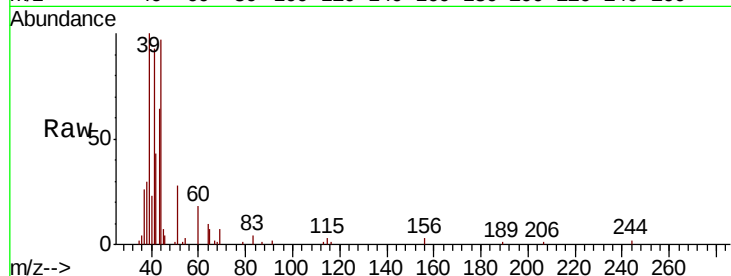
Ion 67.00 (66.70 to 67.70): VL0





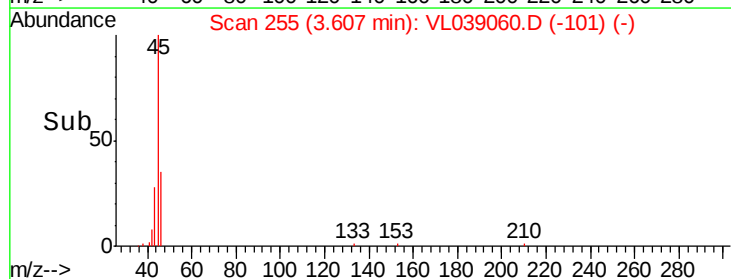
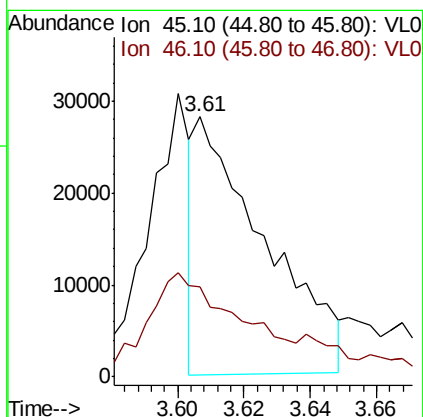
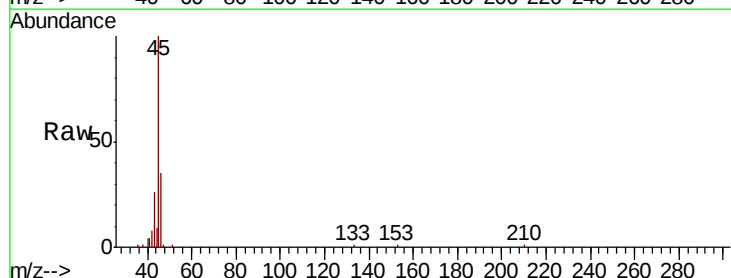
#9
 Propene
 Concen: 0.537 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV3DL
 Acq: 14 May 2022 0:35

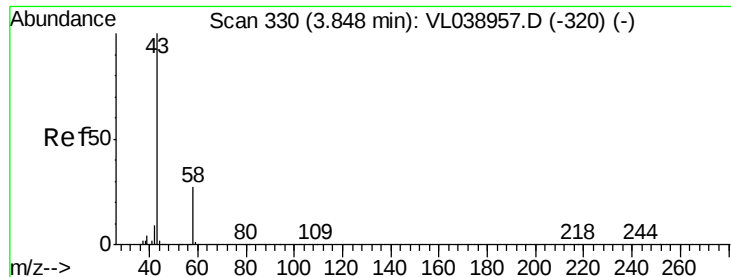
Tot Ion: 41 Resp: 27671
 Ion Ratio Lower Upper
 41 100
 42 59.4 58.3 87.5



#13
 Ethanol
 Concen: 11.143 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL039060.D
 Acq: 14 May 2022 6:35

Tgt Ion: 45 Resp: 40662
 Ion Ratio Lower Upper
 45 100
 46 0.0 18.0 72.2#





#15

Acetone

Concen: 3.561 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

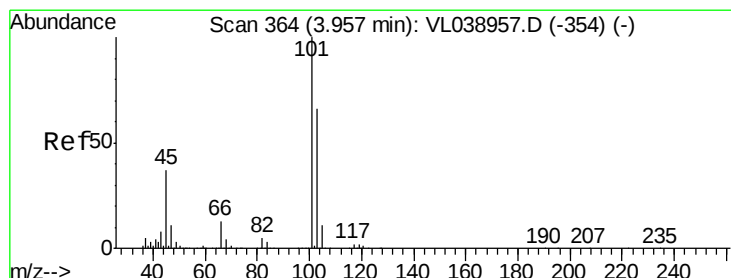
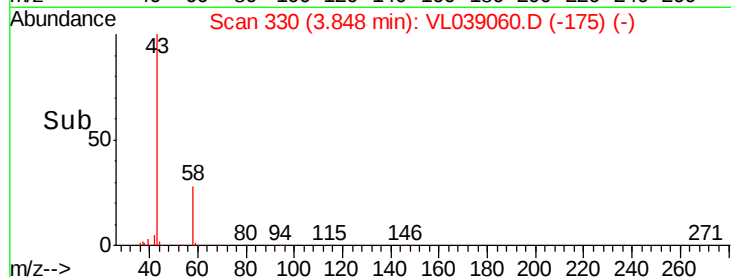
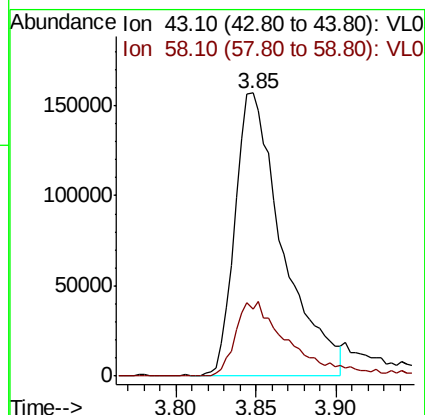
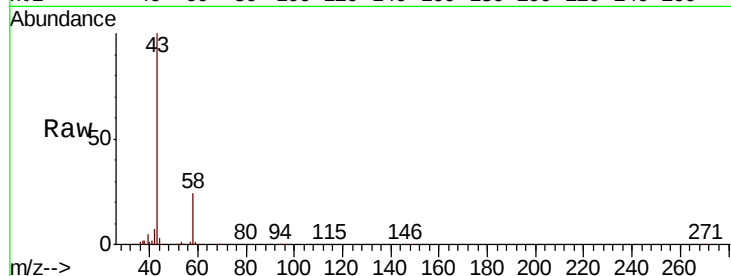
Acq: 14 May 2022 6:35

Tot Ion: 43 Resp: 319613

Ion Ratio Lower Upper

43 100

58 29.6 21.3 31.9



#19

Isopropyl Alcohol

Concen: 0.653 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL039060.D

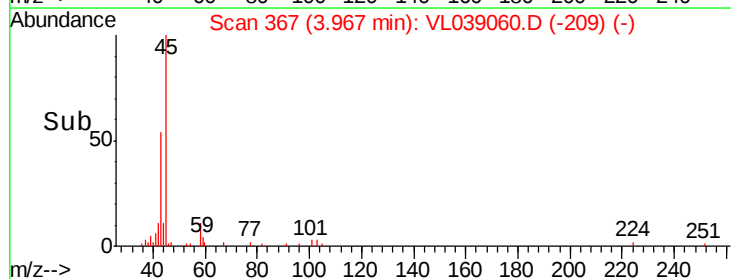
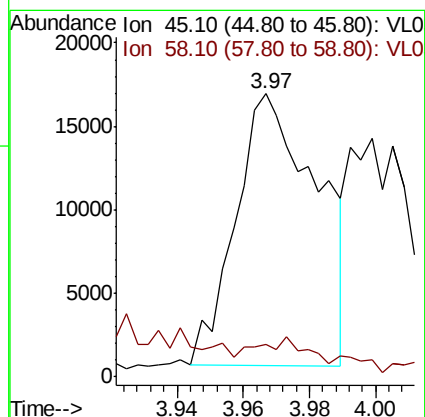
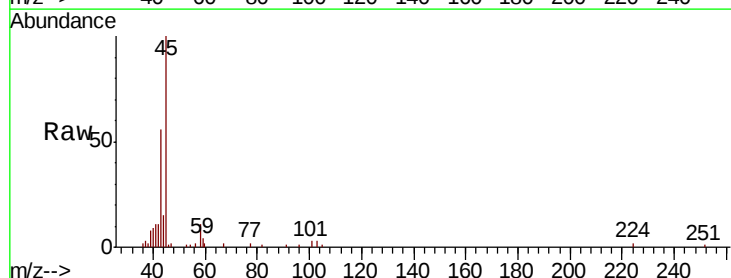
Acq: 14 May 2022 6:35

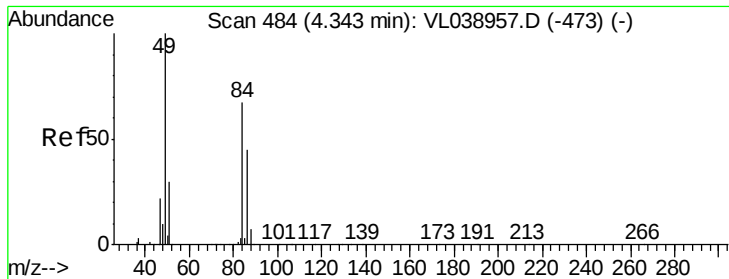
Tgt Ion: 45 Resp: 27869

Ion Ratio Lower Upper

45 100

58 11.3 1.4 2.2#





#20

Methylene Chloride

Concen: 0.289 ppbv

RT: 4.34 Instrument: MSVOA_1

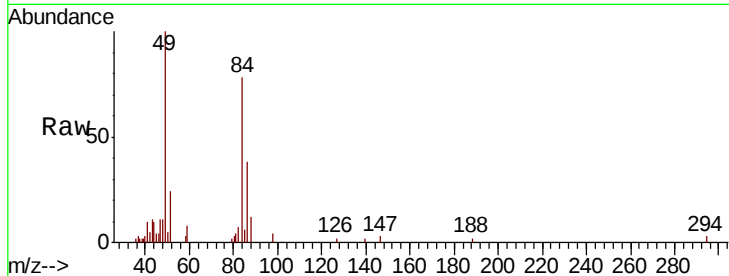
Delta R.T. ClientSampleId:

Lab File: SV3DL

Acq: 14 May 2022 0:35

Tot Ion: 84 Resp: 9775

Ion	Ratio	Lower	Upper
84	100		
49	121.5	119.9	179.9
51	31.0	35.7	53.5#
86	48.4	53.8	80.6#

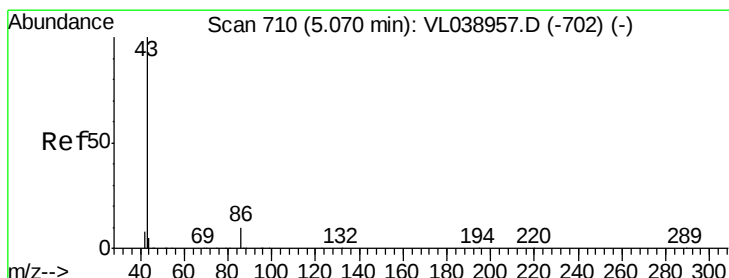
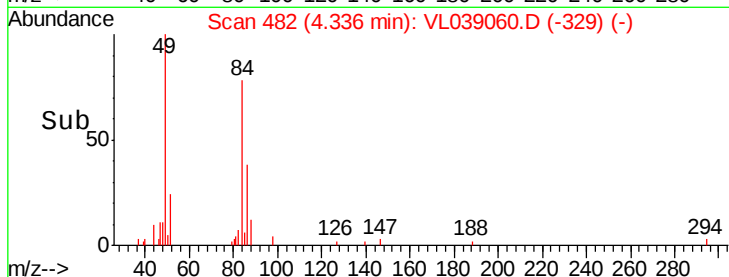
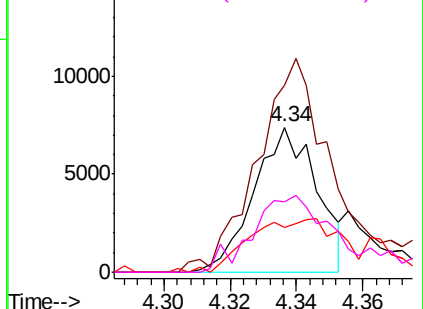


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#23

Vinyl Acetate

Concen: 4.056 ppbv

RT: 5.06 min Scan# 708

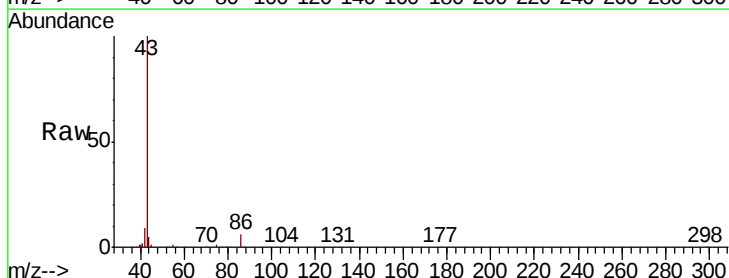
Delta R.T. -0.01 min

Lab File: VL039060.D

Acq: 14 May 2022 6:35

Tgt Ion: 43 Resp: 288049

Ion	Ratio	Lower	Upper
43	100		
86	6.5	6.6	9.8#
42	8.8	8.1	12.1
44	4.9	3.5	5.3

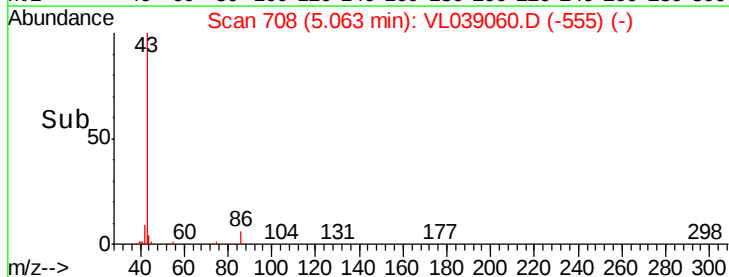
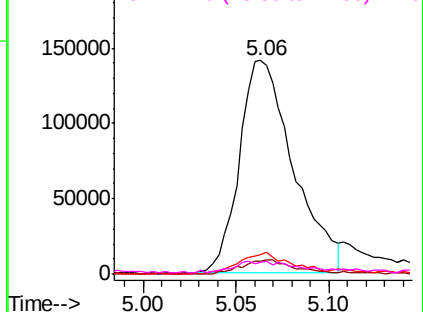


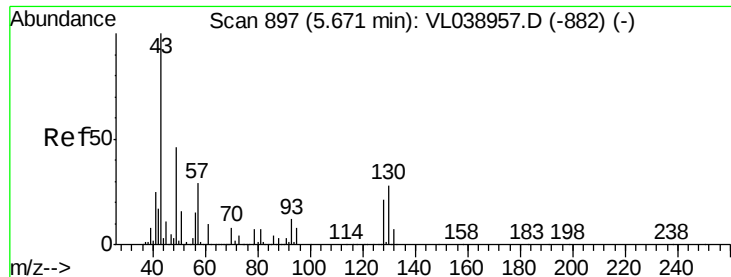
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

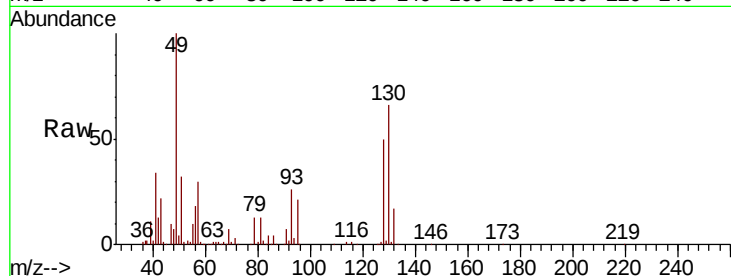
Ion 44.10 (43.80 to 44.80): VL0



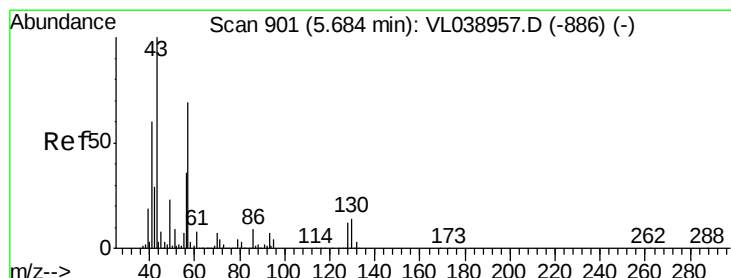
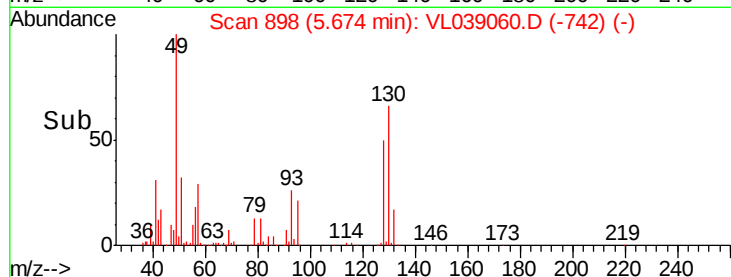
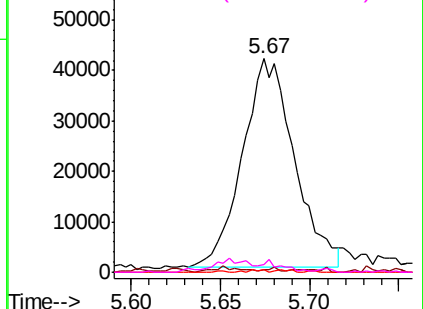


#25
Ethyl Acetate
Concen: 0.394 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV3DL
Acq: 14 May 2022 6:35

Tot Ion:	43	Resp:	84699
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.1	12.1#
61	0.8	7.8	11.6#
70	6.9	5.6	8.4

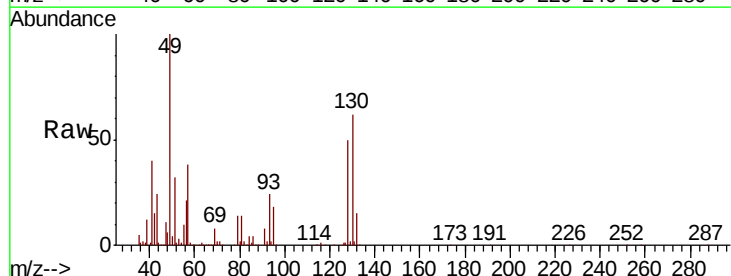


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

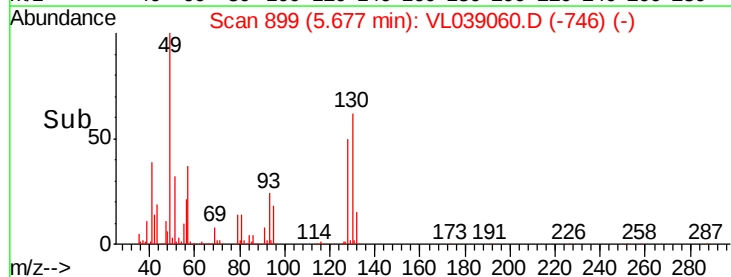
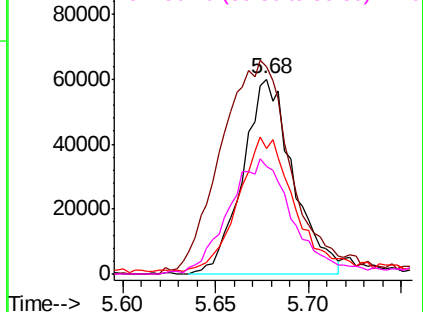


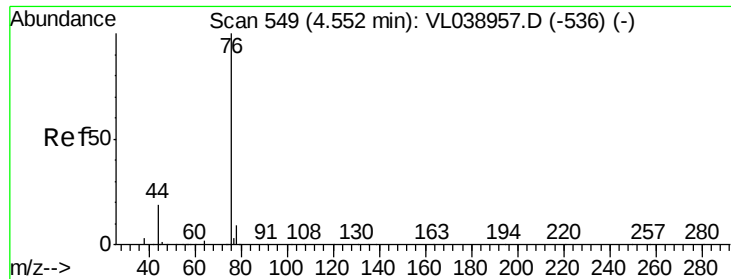
#26
Hexane
Concen: 1.190 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL039060.D
Acq: 14 May 2022 6:35

Tgt Ion:	57	Resp:	113600
Ion	Ratio	Lower	Upper
57	100		
41	160.5	75.2	112.8#
43	76.9	190.8	286.2#
56	77.7	43.0	64.6#



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





#27

Carbon Disulfide

Concen: 0.034 ppbv

RT: 4.54 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV3DL

Acq: 14 May 2022 8:35

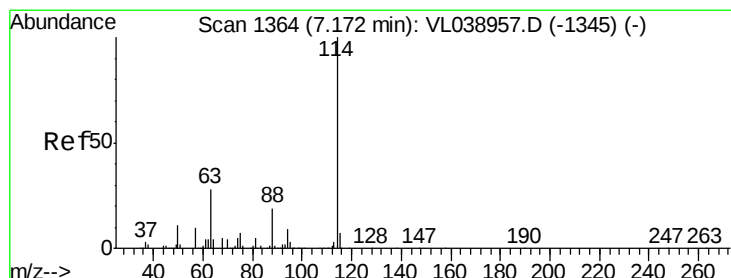
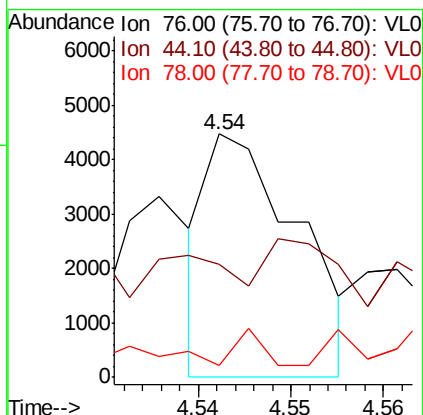
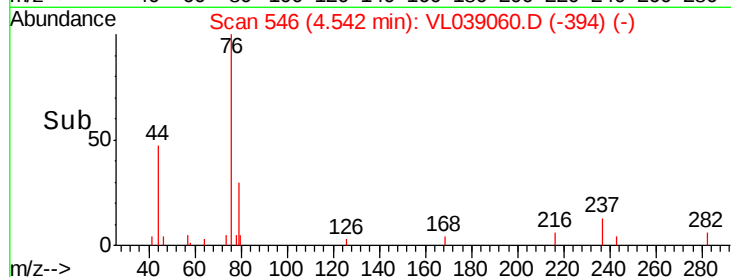
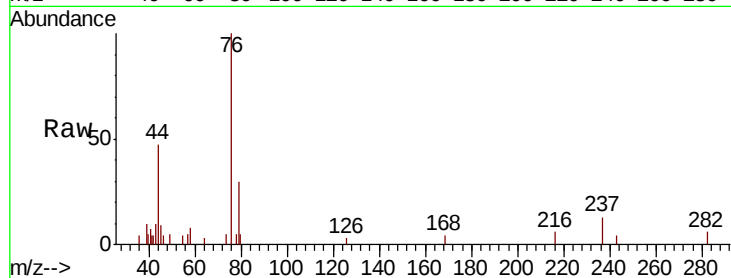
Tot Ion: 76 Resp: 3062

Ion Ratio Lower Upper

76 100

44 0.0 15.3 22.9#

78 0.0 8.2 12.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VL039060.D

Acq: 14 May 2022 6:35

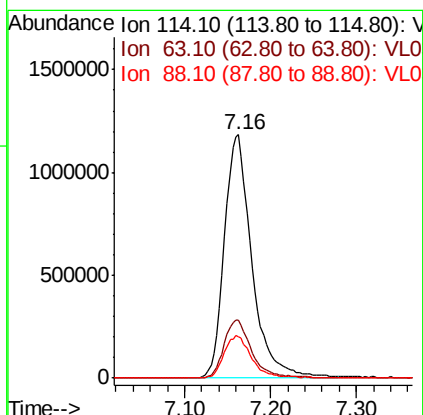
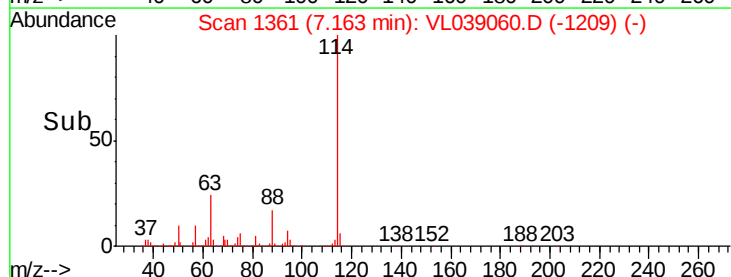
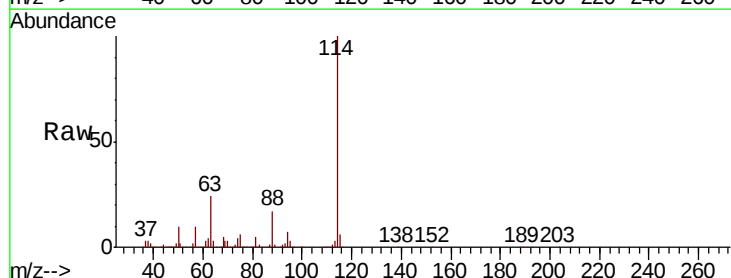
Tgt Ion: 114 Resp: 2641775

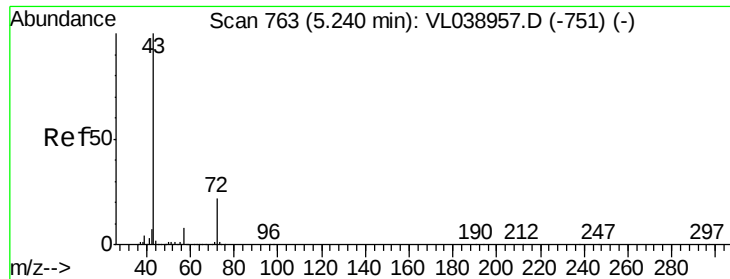
Ion Ratio Lower Upper

114 100

63 24.3 22.6 33.8

88 17.5 15.4 23.0





#34

2-Butanone

Concen: 0.636 ppbv

RT: 5.24 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

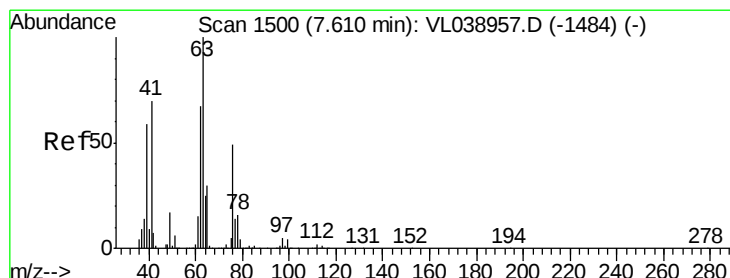
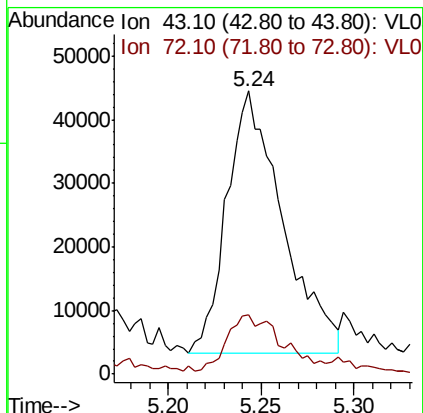
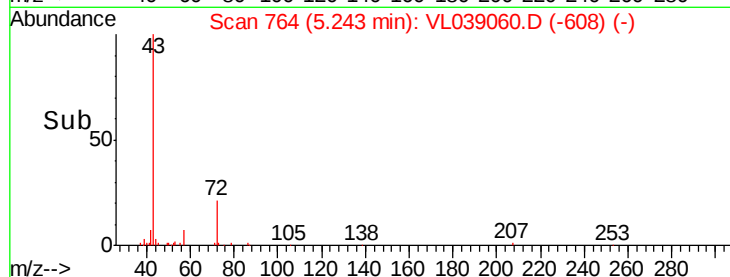
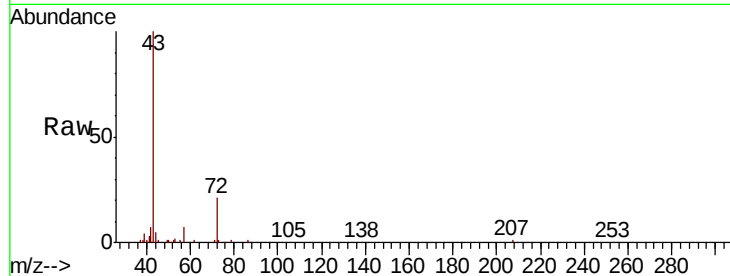
SV3DL Acq: 14 May 2022 8:35

Tot Ion: 43 Resp: 85672

Ion Ratio Lower Upper

43 100

72 26.7 17.8 26.6#



#39

1,2-Dichloropropane

Concen: 7.028 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.45 min

Lab File: VL039060.D

Acq: 14 May 2022 6:35

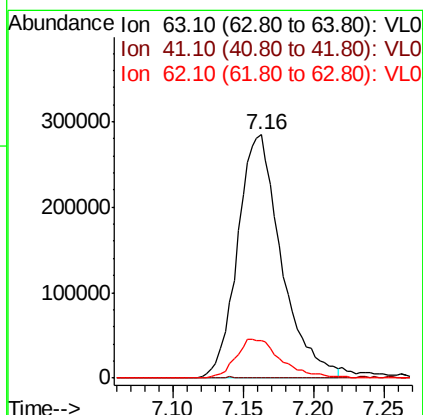
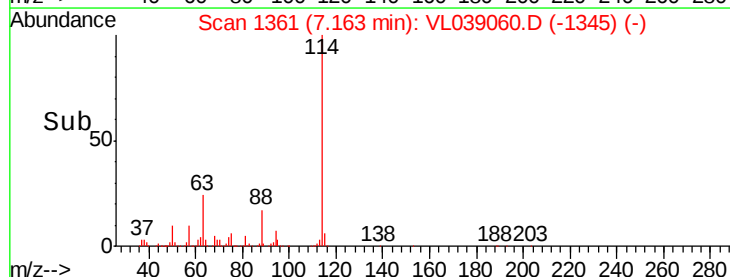
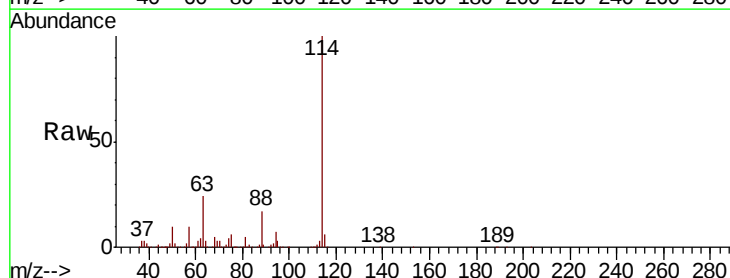
Tgt Ion: 63 Resp: 618197

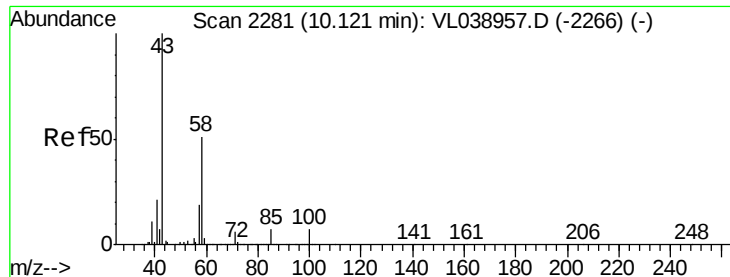
Ion Ratio Lower Upper

63 100

41 0.1 55.9 83.9#

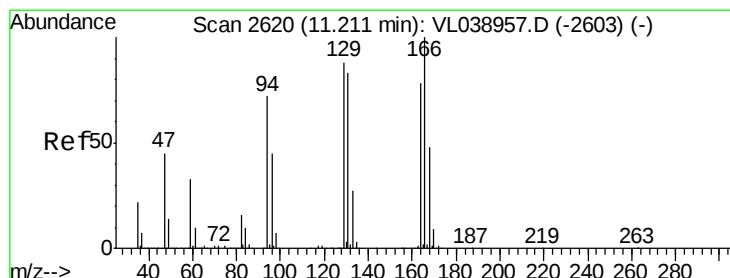
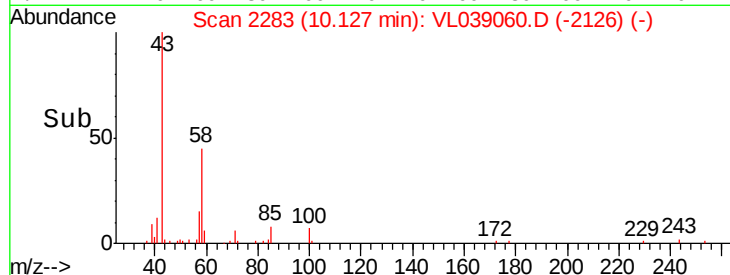
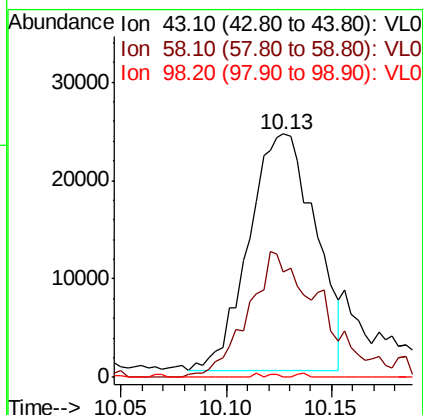
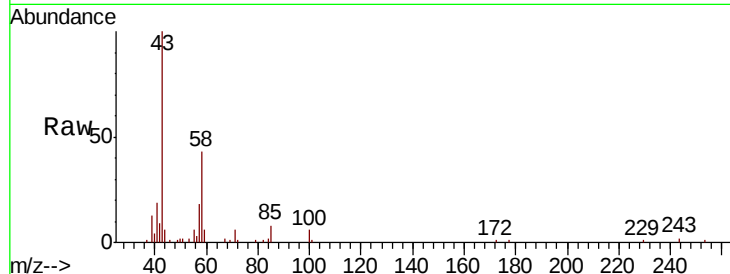
62 15.3 53.8 80.6#





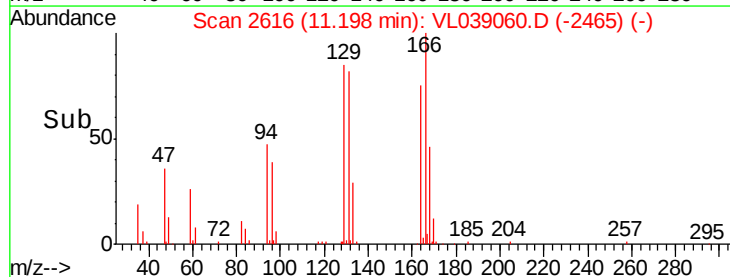
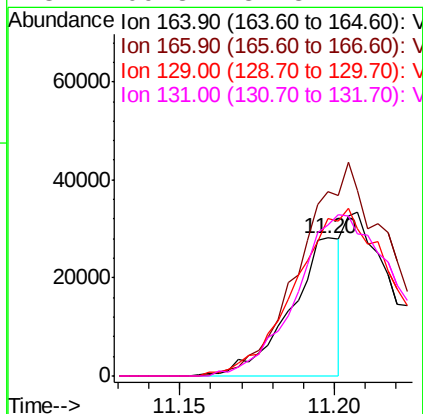
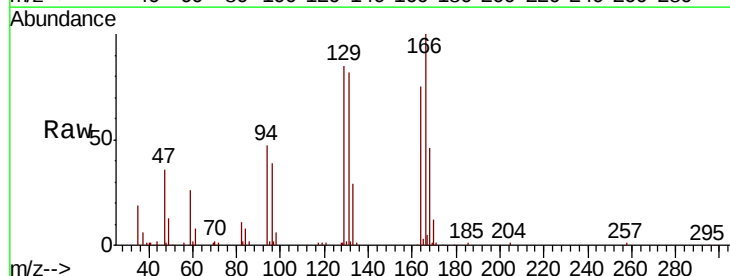
#51
2-Hexanone
Concen: 0.308 ppbv
RT: 10.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV3DL
Acq: 14 May 2022 0:35

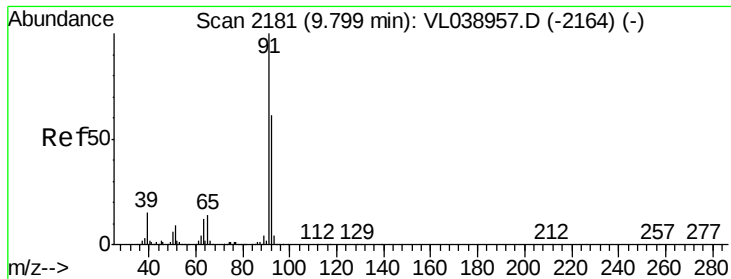
Tot Ion: 43 Resp: 53140
Ion Ratio Lower Upper
43 100
58 65.5 39.3 58.9#
98 0.5 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.385 ppbv
RT: 11.20 min Scan# 2616
Delta R.T. -0.01 min
Lab File: VL039060.D
Acq: 14 May 2022 6:35

Tgt Ion:164 Resp: 31143
Ion Ratio Lower Upper
164 100
166 133.6 102.5 153.7
129 114.0 90.1 135.1
131 109.3 84.8 127.2





#53

Toluene

Concen: 0.036 ppbv

RT: 9.79 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV3DL

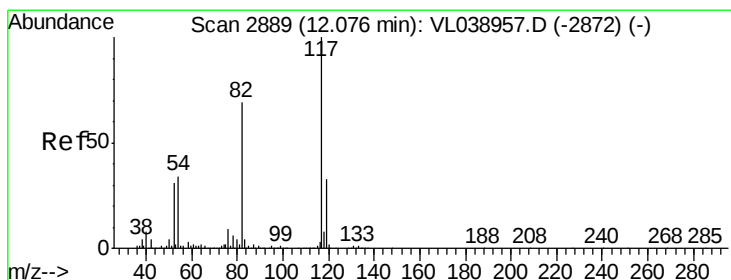
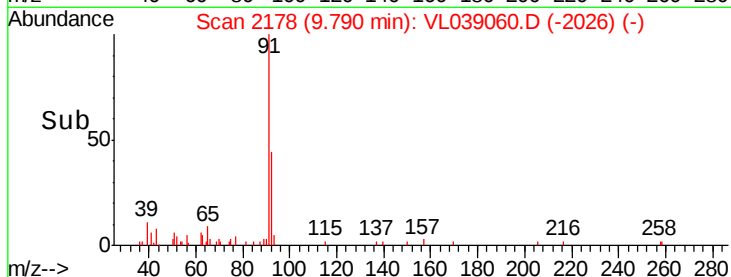
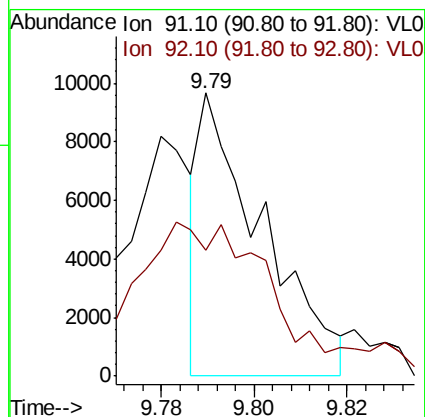
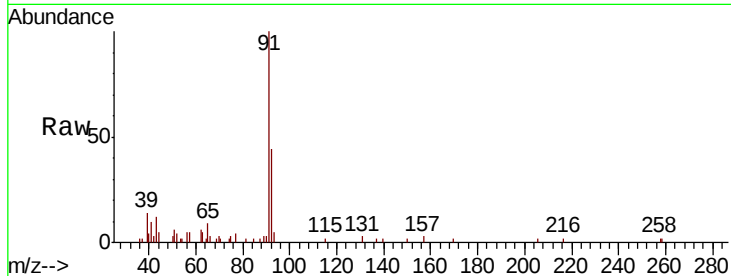
Acq: 14 May 2022 8:35

Tot Ion: 91 Resp: 9050

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL039060.D

Acq: 14 May 2022 6:35

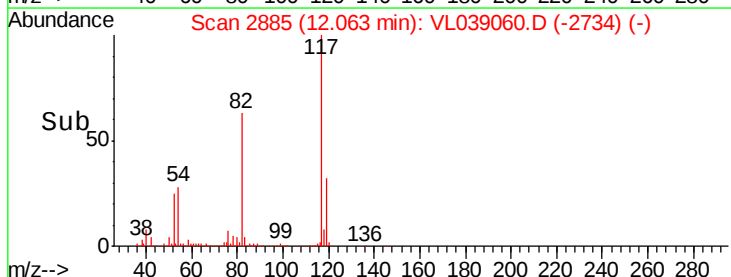
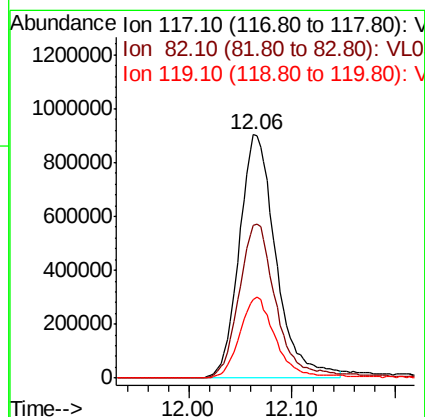
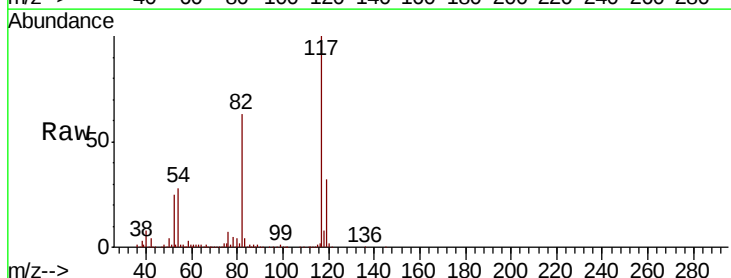
Tgt Ion: 117 Resp: 2233480

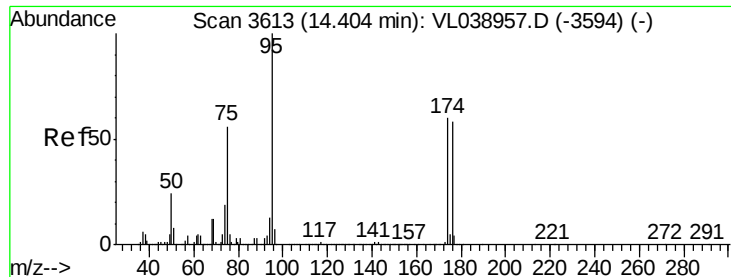
Ion Ratio Lower Upper

117 100

82 65.5 57.0 85.6

119 33.1 27.2 40.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.368 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV3DL

Acq: 14 May 2022 8:35

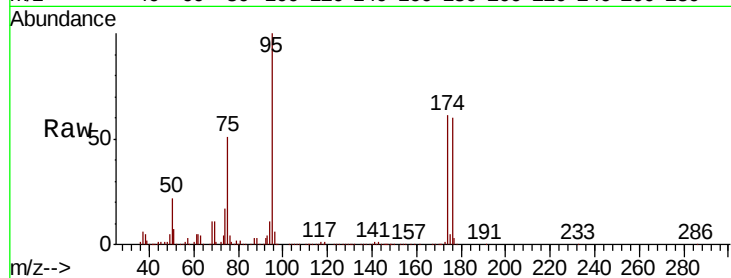
Tot Ion: 95 Resp: 1657039

Ion Ratio Lower Upper

95 100

174 66.6 50.8 76.2

175 4.9 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

