

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039432.D
 Acq On : 5 Jul 2022 23:41
 Operator : SY/AP
 Sample : N3573-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Jul 06 02:37:35 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1212135	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3272770	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	2829223	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2131019	10.15	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

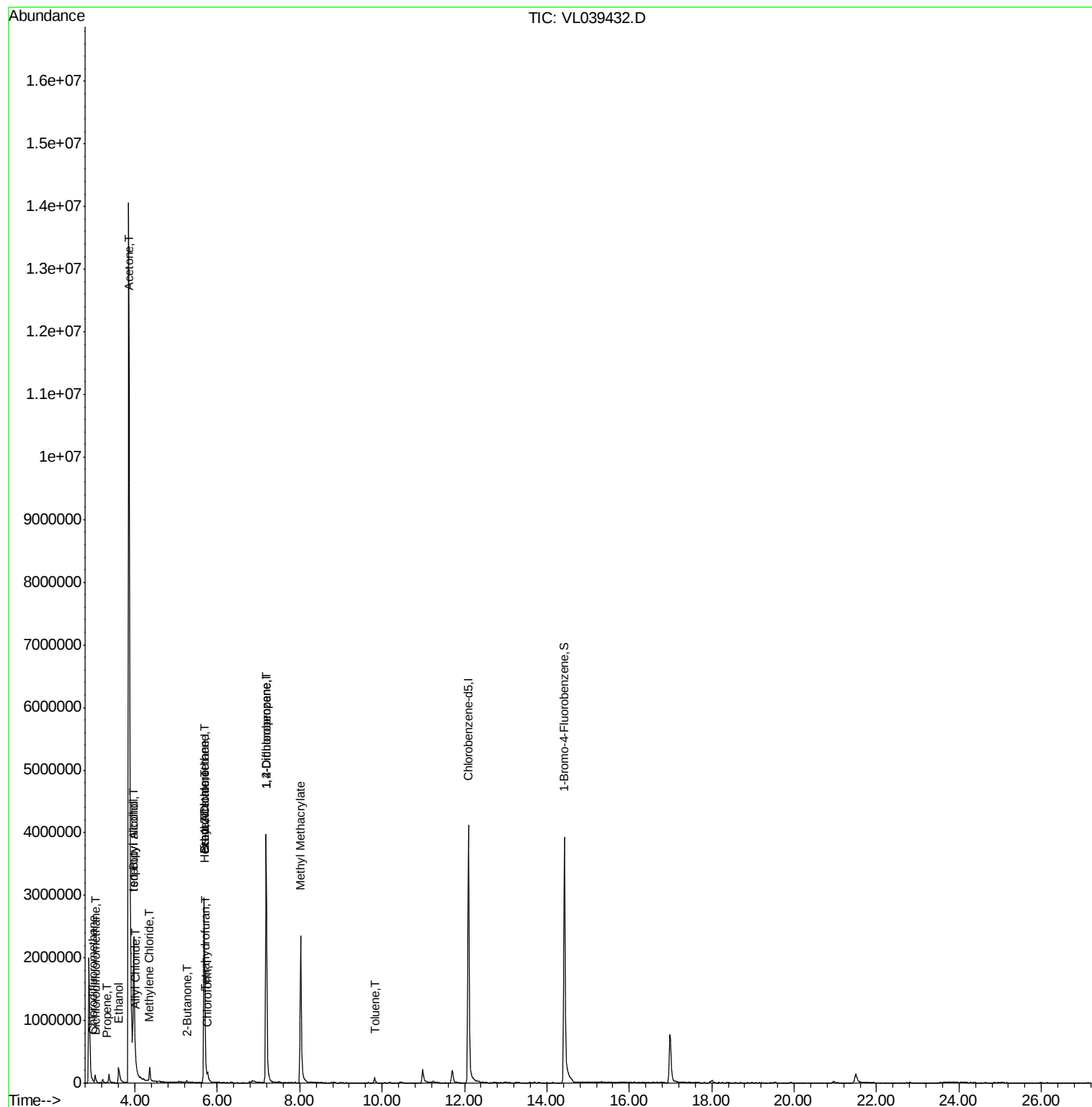
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	6298	0.036	ppbv	94
3) Chlorodifluoromethane	2.97	51	37301	0.243	ppbv #	65
9) Propene	3.32	41	2179	0.031	ppbv	99
13) Ethanol	3.61	45	204395	50.728	ppbv	93
15) Acetone	3.85	43	19377733	135.127	ppbv #	75
17) tert-Butyl alcohol	3.97	59	86387	0.710	ppbv #	87
19) Isopropyl Alcohol	3.97	45	2895436	37.853	ppbv #	88
20) Methylene Chloride	4.36	84	84396	1.477	ppbv	93
21) Allyl Chloride	4.02	41	7295	0.073	ppbv #	20
25) Ethyl Acetate	5.68	43	794118	2.701	ppbv #	93
26) Hexane	5.69	57	33041	0.279	ppbv #	1
29) Chloroform	5.76	83	78423	0.380	ppbv	95
31) cis-1,2-Dichloroethene	5.68	61	89392	0.711	ppbv #	25
34) 2-Butanone	5.26	43	34118	0.207	ppbv	92
39) 1,2-Dichloropropane	7.19	63	801688	8.472	ppbv #	25
41) Tetrahydrofuran	5.72	42	7837	0.082	ppbv #	43
43) Methyl Methacrylate	8.02	69	956367	9.930	ppbv	94
53) Toluene	9.83	91	16204	0.055	ppbv #	21

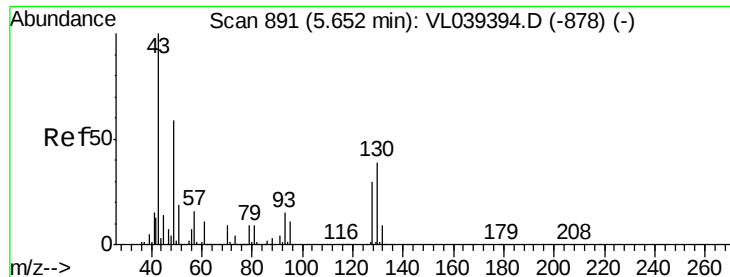
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
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QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 5 Jul 2022 23:41

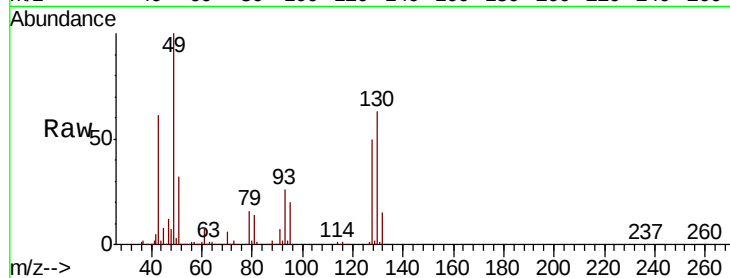
Tot Ion: 49 Resp: 1212135

Ion Ratio Lower Upper

49 100

128 52.9 26.7 80.0

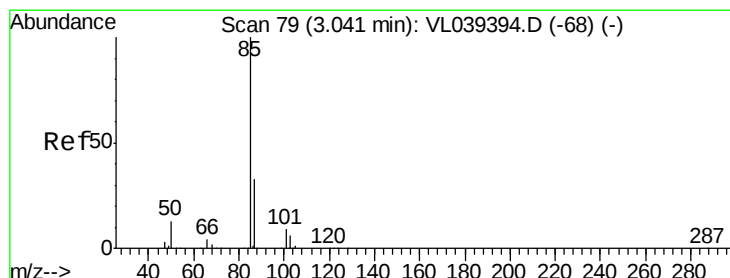
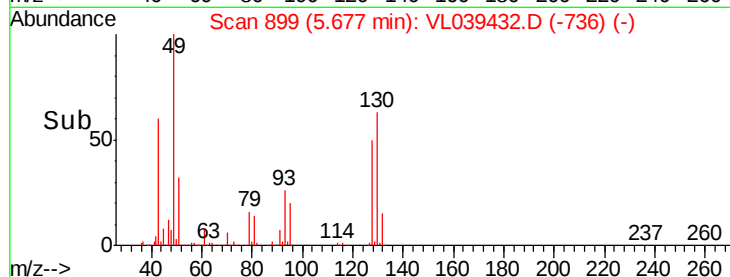
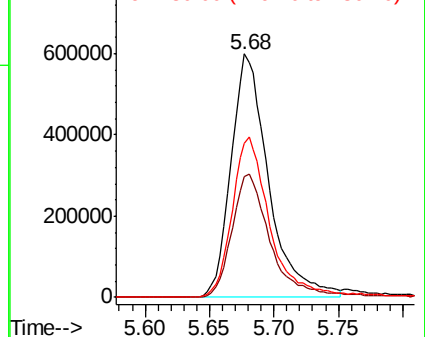
130 67.7 34.3 102.8



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: 0.036 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL039432.D

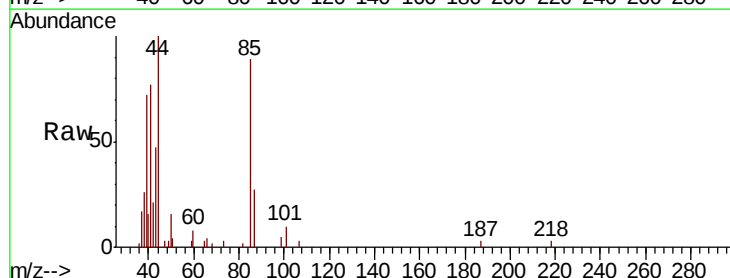
Acq: 5 Jul 2022 23:41

Tgt Ion: 85 Resp: 6298

Ion Ratio Lower Upper

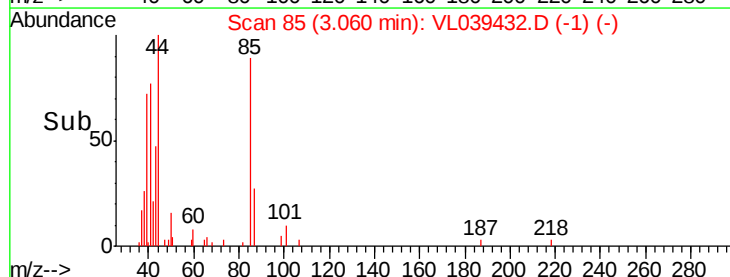
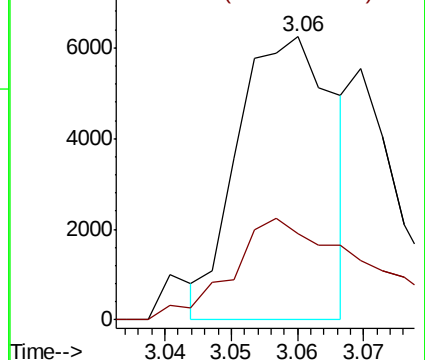
85 100

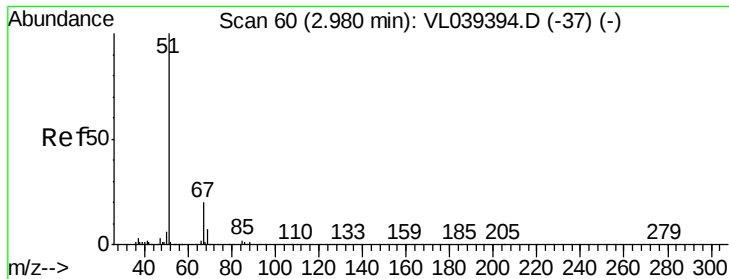
87 30.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.243 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

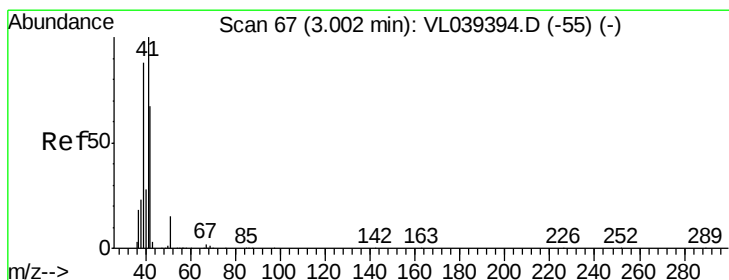
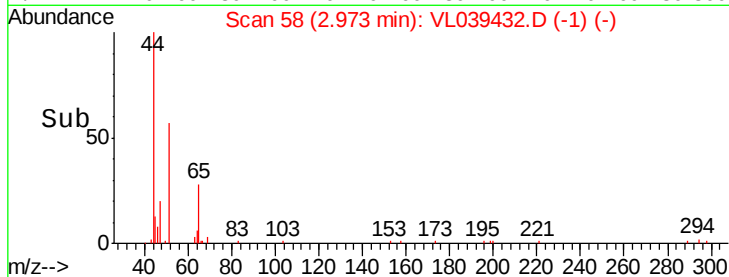
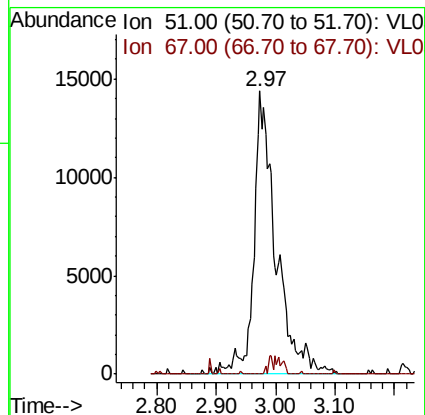
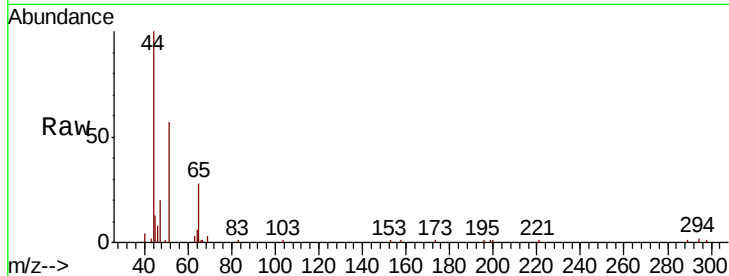
Acq: 5 Jul 2022 23:41

Tot Ion: 51 Resp: 37301

Ion Ratio Lower Upper

51 100

67 3.5 15.7 23.5#



#9

Propene

Concen: 0.031 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.32 min

Lab File: VL039432.D

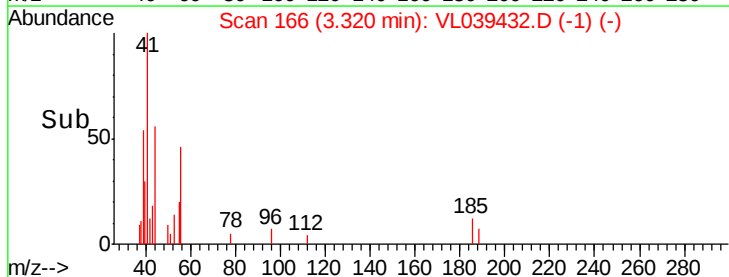
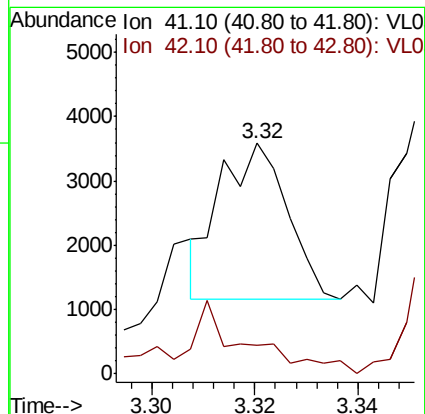
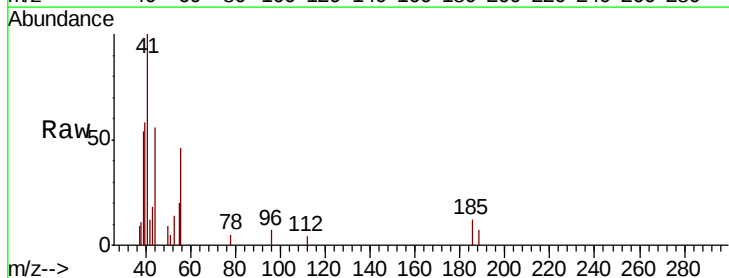
Acq: 5 Jul 2022 23:41

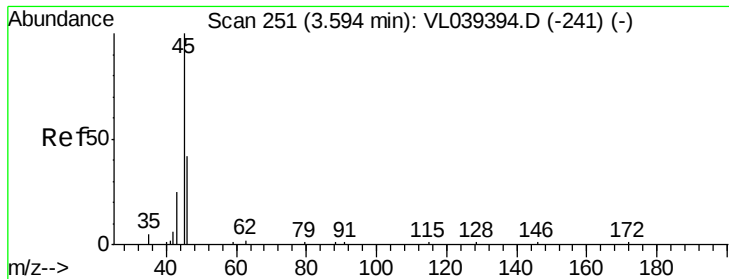
Tgt Ion: 41 Resp: 2179

Ion Ratio Lower Upper

41 100

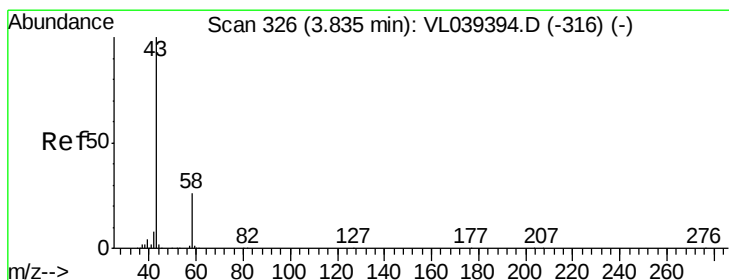
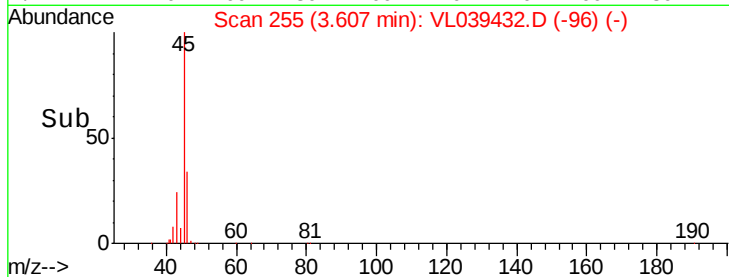
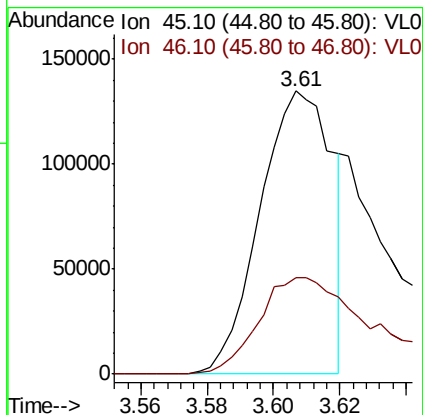
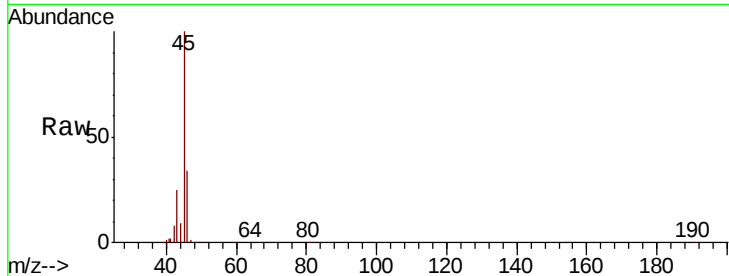
42 69.6 55.2 82.8





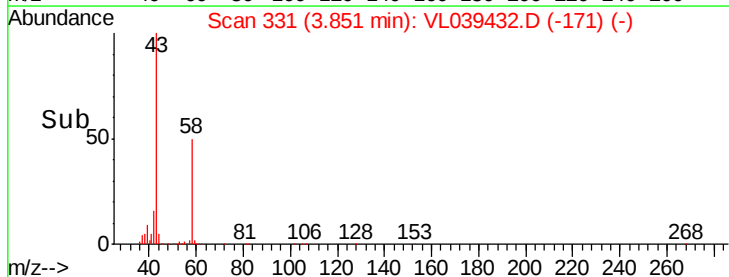
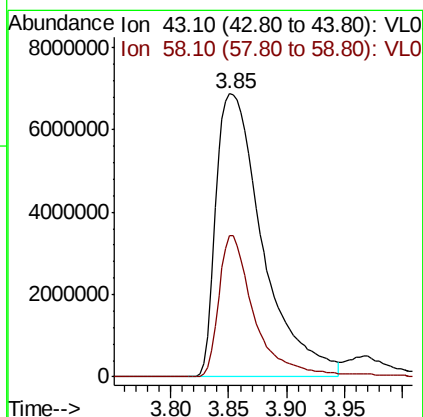
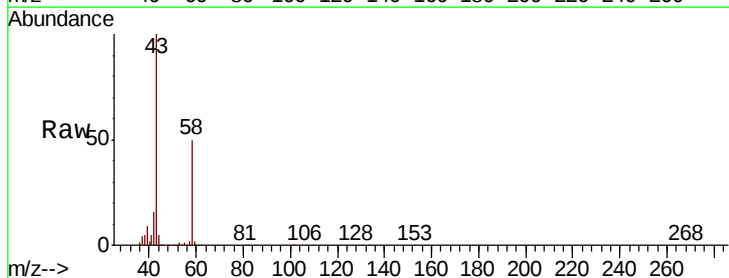
#13
 Ethanol
 Concen: 50.728 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 23:41

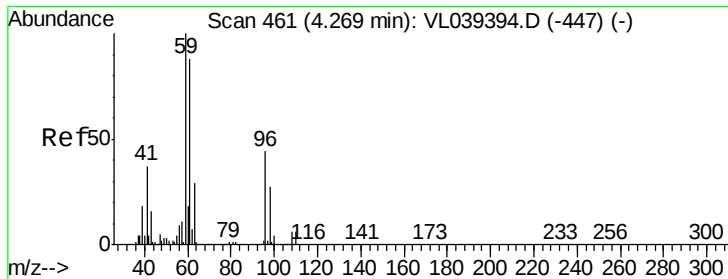
Tot Ion: 45 Resp: 204395
 Ion Ratio Lower Upper
 45 100
 46 62.2 22.8 91.2



#15
 Acetone
 Concen: 135.127 ppbv
 RT: 3.85 min Scan# 331
 Delta R.T. 0.02 min
 Lab File: VL039432.D
 Acq: 5 Jul 2022 23:41

Tgt Ion: 43 Resp:19377733
 Ion Ratio Lower Upper
 43 100
 58 38.9 21.0 31.6#





#17

tert-Butyl alcohol

Concen: 0.710 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

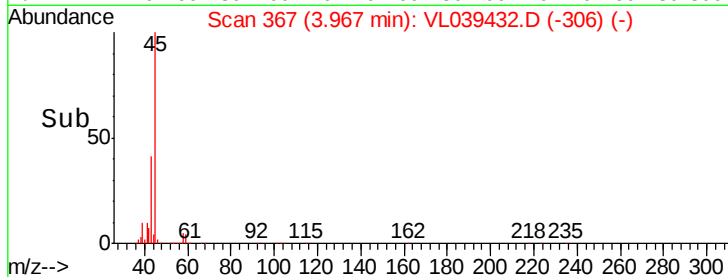
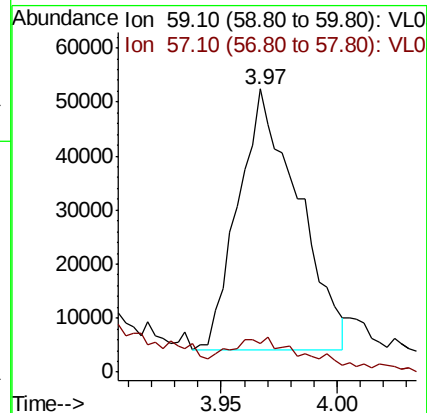
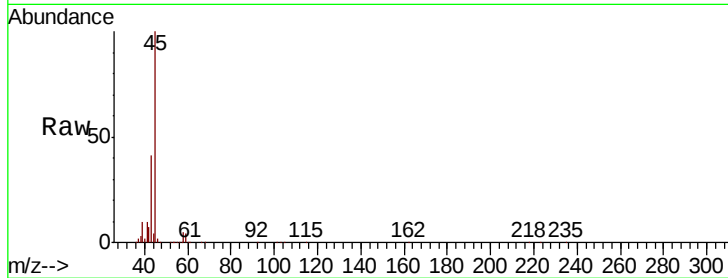
Acq: 5 Jul 2022 23:41

Tot Ion: 59 Resp: 86387

Ion Ratio Lower Upper

59 100

57 15.7 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 37.853 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL039432.D

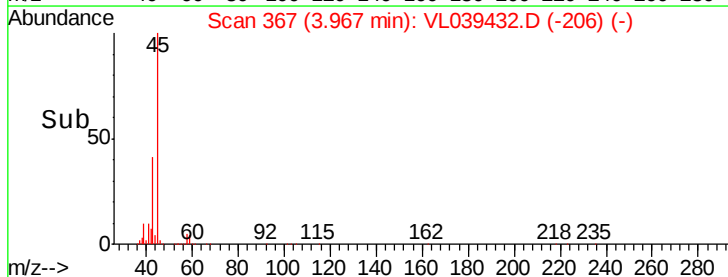
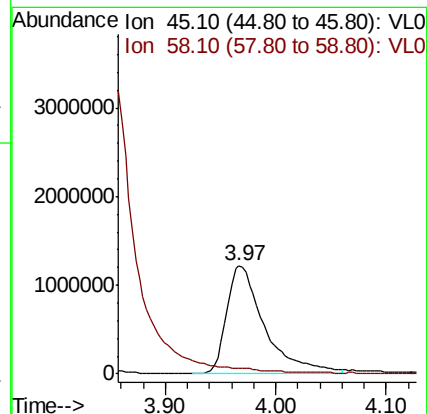
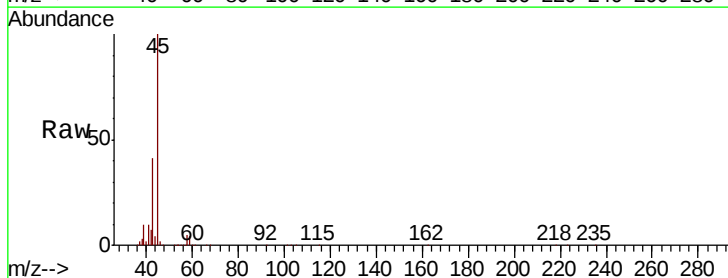
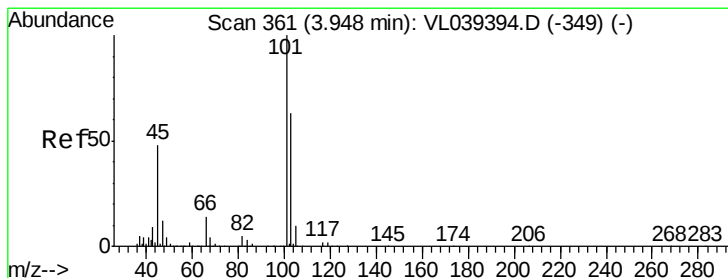
Acq: 5 Jul 2022 23:41

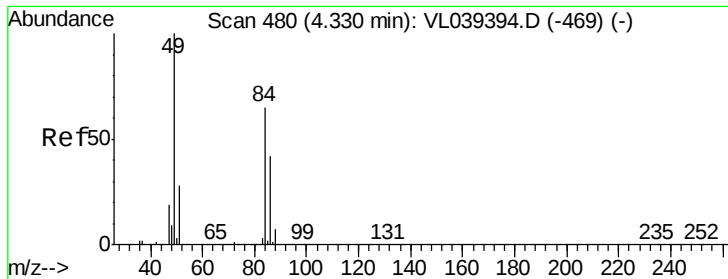
Tgt Ion: 45 Resp: 2895436

Ion Ratio Lower Upper

45 100

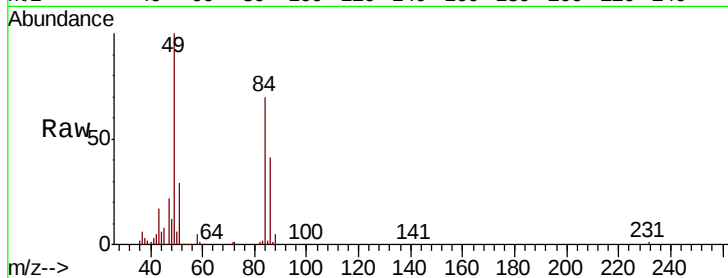
58 0.0 3.2 4.8#





#20
Methvlene Chloride
Concen: 1.477 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 23:41

Tot Ion	84	Resp	84396
Ion Ratio	Lower	Upper	
84	100		
49	143.0	123.1	184.7
51	41.7	34.4	51.6
86	59.4	51.1	76.7



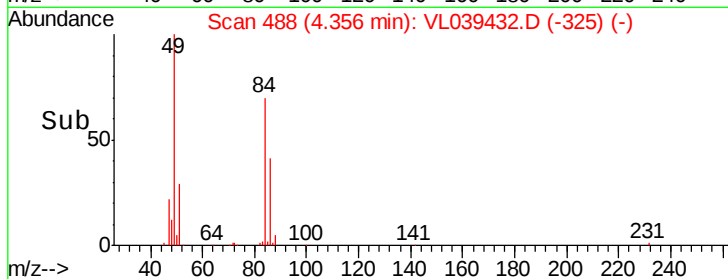
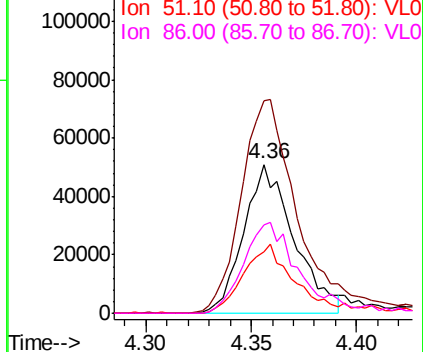
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

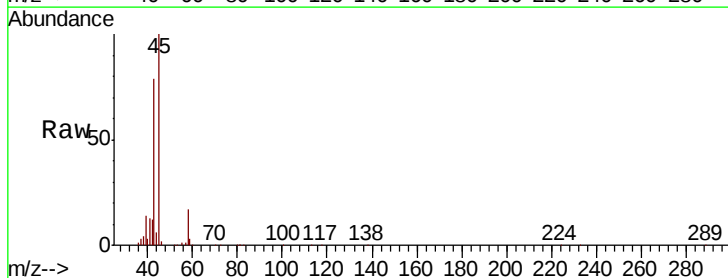
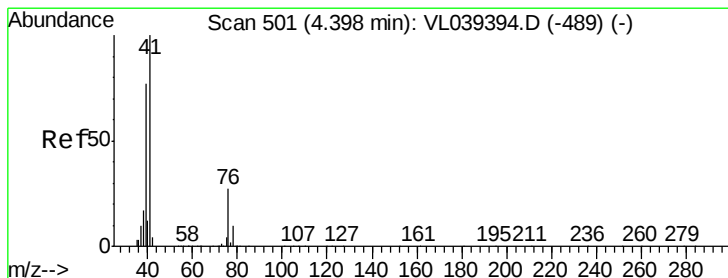
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.073 ppbv
RT: 4.02 min Scan# 384
Delta R.T. -0.38 min
Lab File: VL039432.D
Acq: 5 Jul 2022 23:41

Tgt Ion	41	Resp	7295
Ion Ratio	Lower	Upper	
41	100		
76	0.9	24.4	36.6#
39	0.0	63.5	95.3#

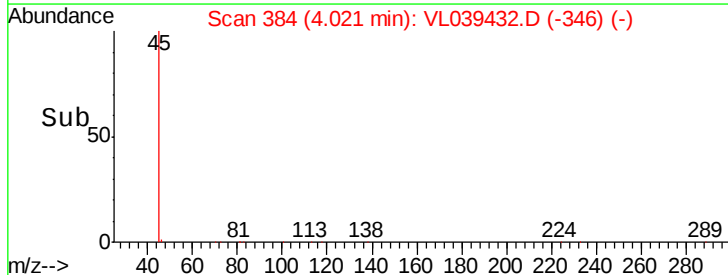
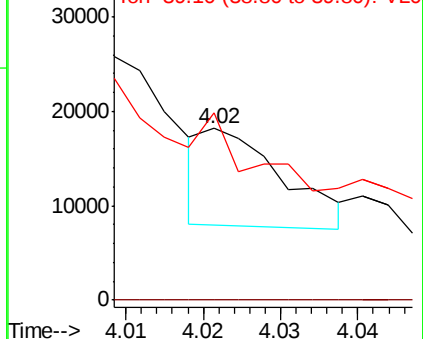


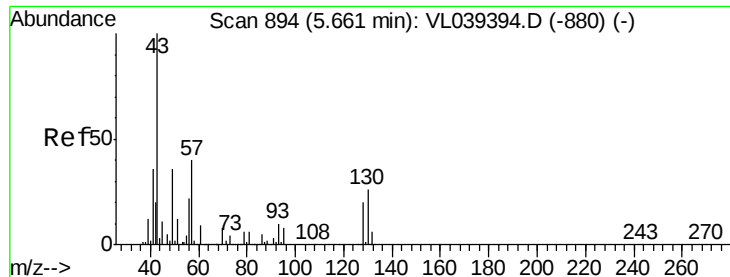
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

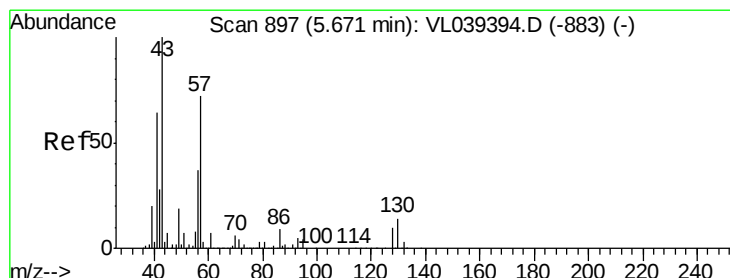
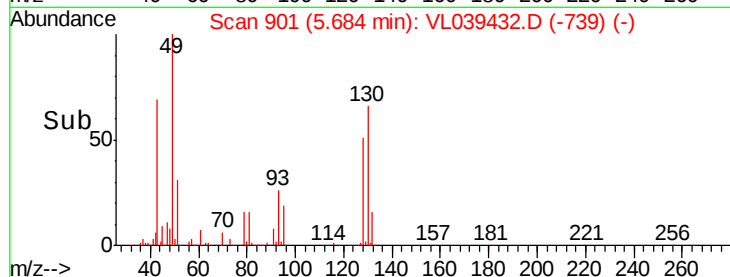
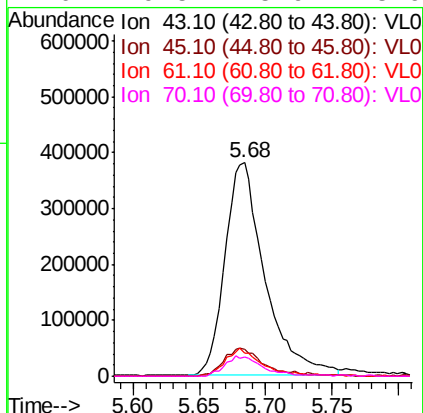
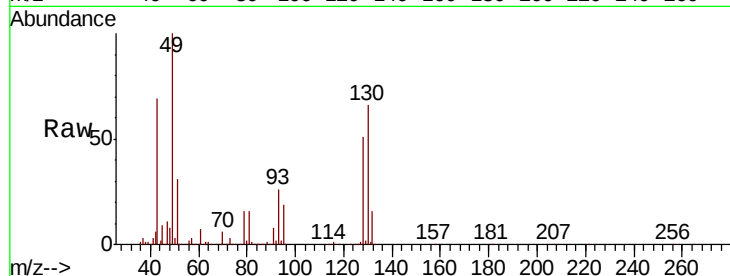
Ion 39.10 (38.80 to 39.80): VL0





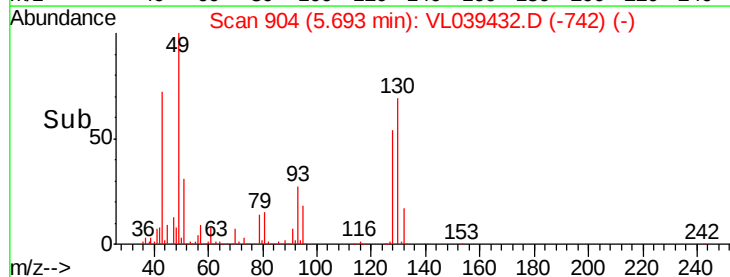
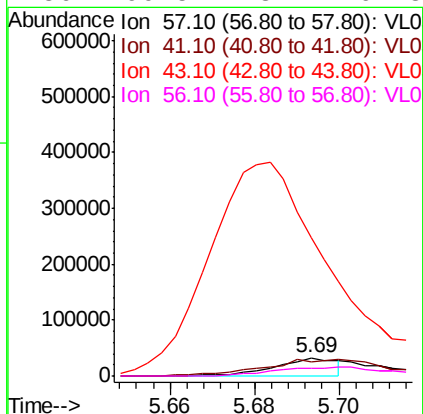
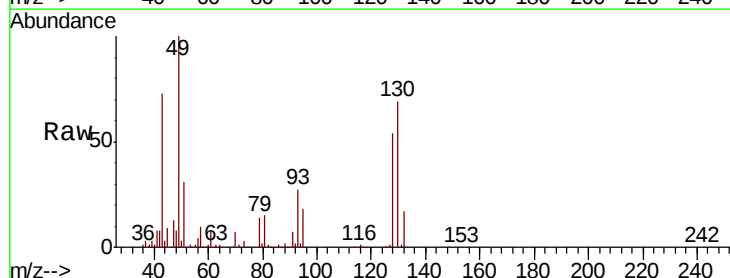
#25
Ethyl Acetate
Concen: 2.701 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 23:41

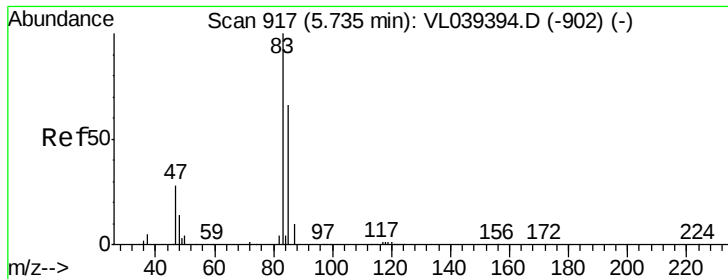
Tot Ion:	43	Resp:	794118
Ion	Ratio	Lower	Upper
43	100		
45	13.6	8.2	12.4#
61	12.4	8.3	12.5
70	9.5	5.9	8.9#



#26
Hexane
Concen: 0.279 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL039432.D
Acq: 5 Jul 2022 23:41

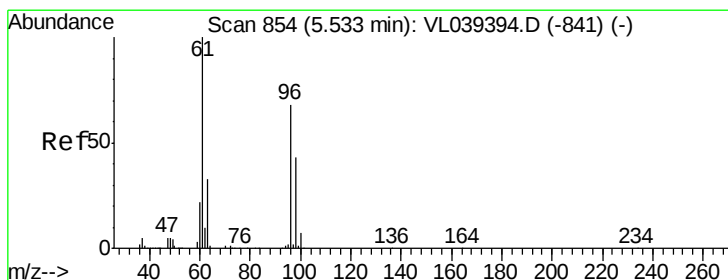
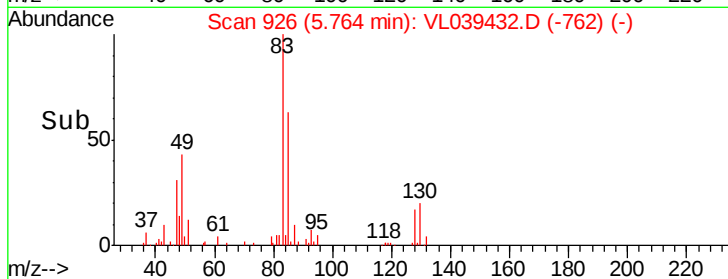
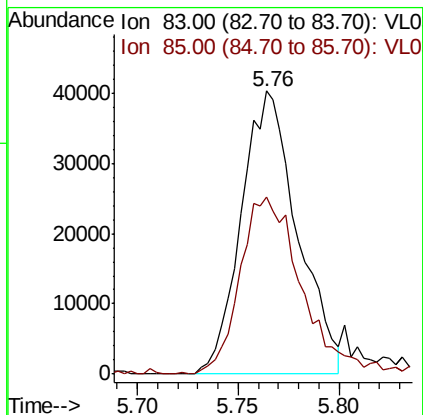
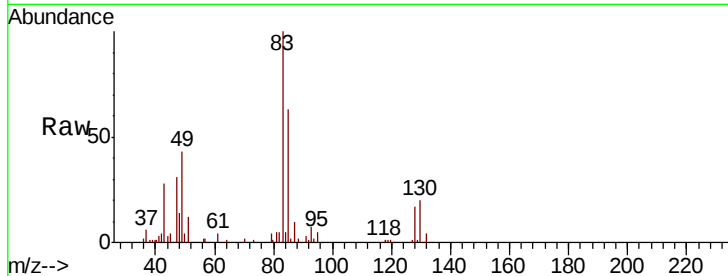
Tgt Ion:	57	Resp:	33041
Ion	Ratio	Lower	Upper
57	100		
41	199.3	76.9	115.3#
43	2484.1	191.0	286.6#
56	99.5	43.2	64.8#





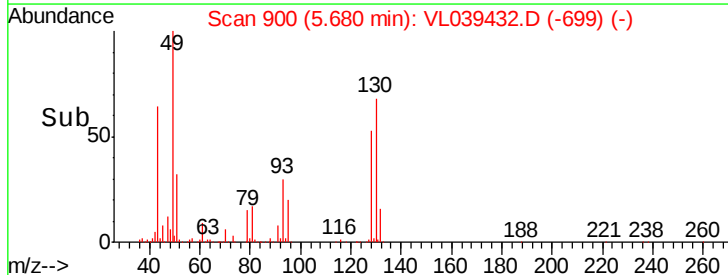
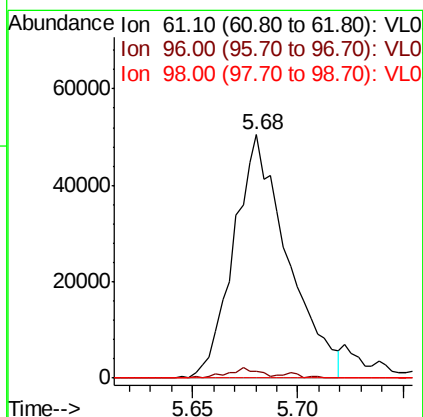
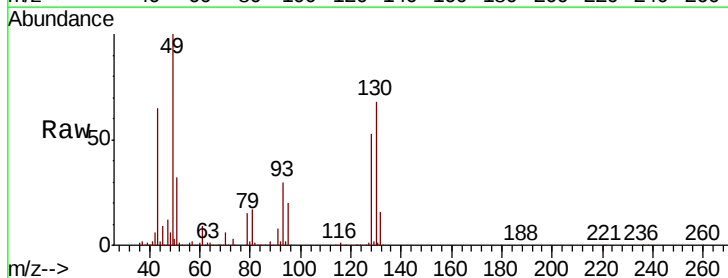
#29
Chloroform
Concen: 0.380 ppbv
RT: 5.76
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 23:41

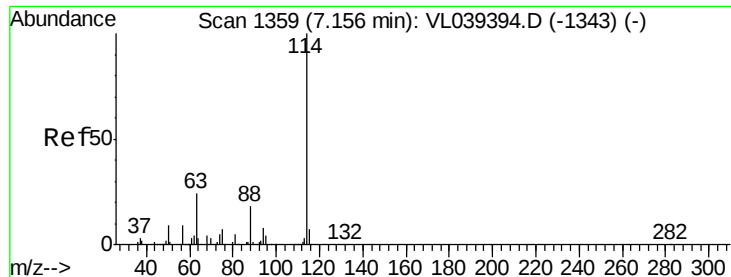
Tot Ion: 83 Resp: 78423
Ion Ratio Lower Upper
83 100
85 62.4 52.8 79.2



#31
cis-1,2-Dichloroethene
Concen: 0.711 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.15 min
Lab File: VL039432.D
Acq: 5 Jul 2022 23:41

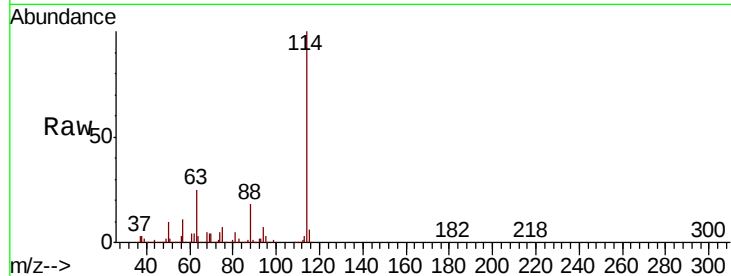
Tgt Ion: 61 Resp: 89392
Ion Ratio Lower Upper
61 100
96 2.7 54.1 81.1#
98 0.0 34.6 52.0#



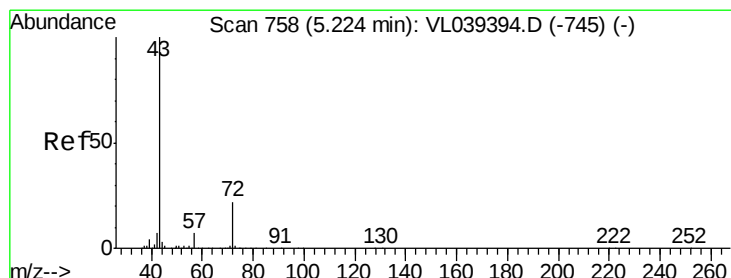
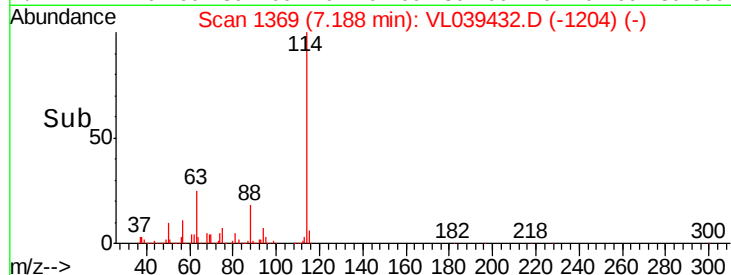
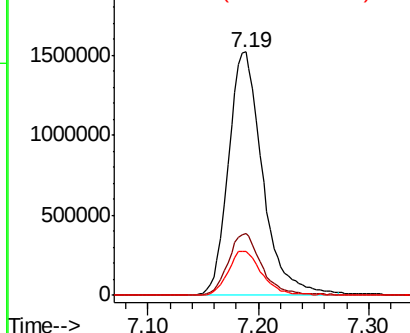


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 23:41

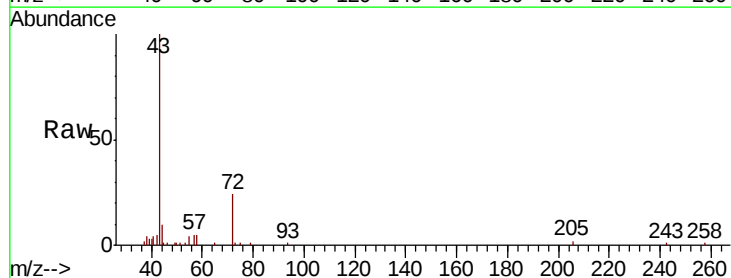
Tot Ion:114 Resp: 3272770
 Ion Ratio Lower Upper
 114 100
 63 25.3 20.2 30.4
 88 18.4 14.5 21.7



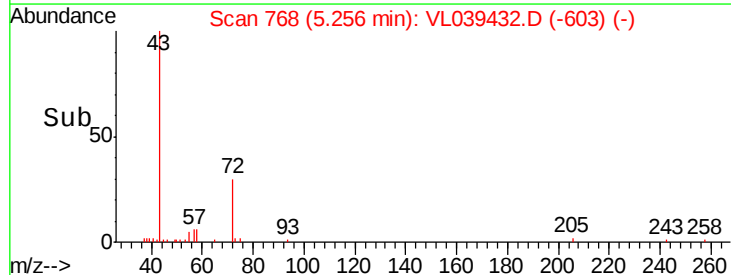
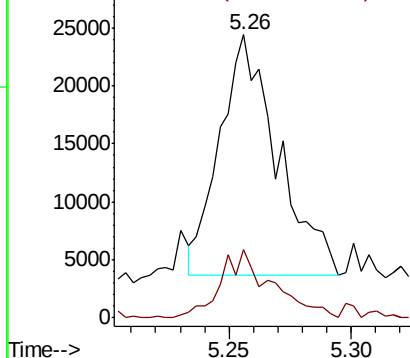
Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

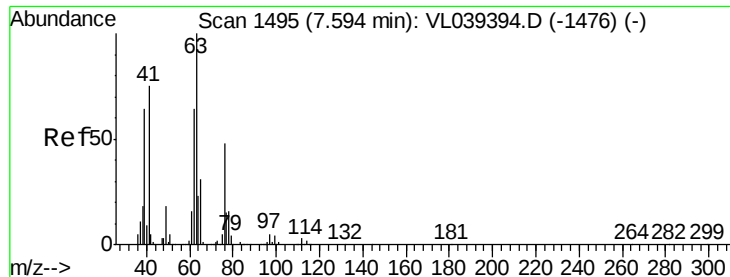


#34
 2-Butanone
 Concen: 0.207 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.03 min
 Lab File: VL039432.D
 Acq: 5 Jul 2022 23:41
 Tgt Ion: 43 Resp: 34118
 Ion Ratio Lower Upper
 43 100
 72 26.5 17.9 26.9



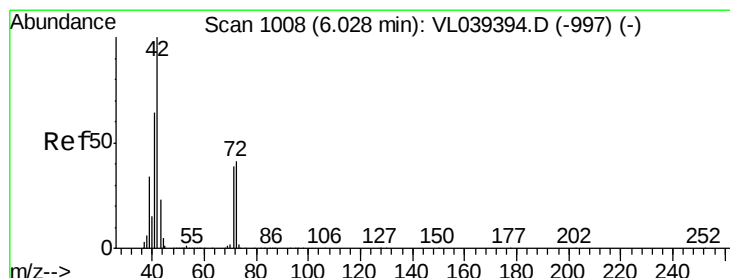
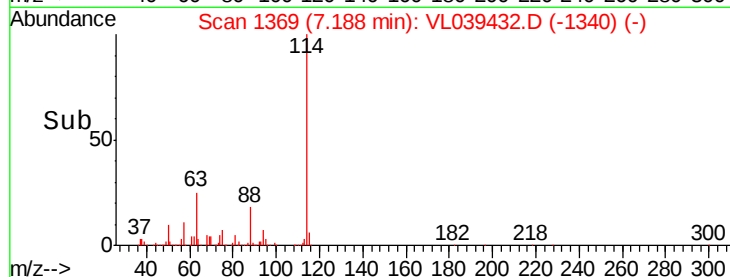
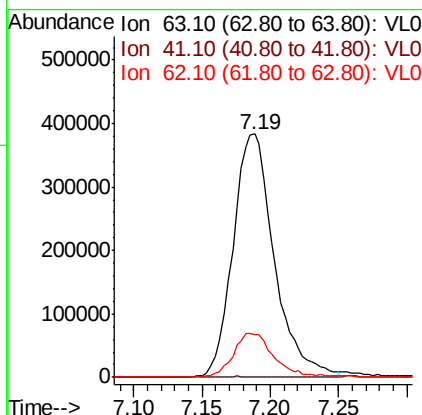
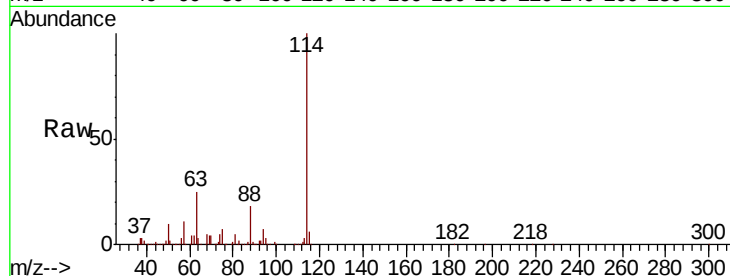
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





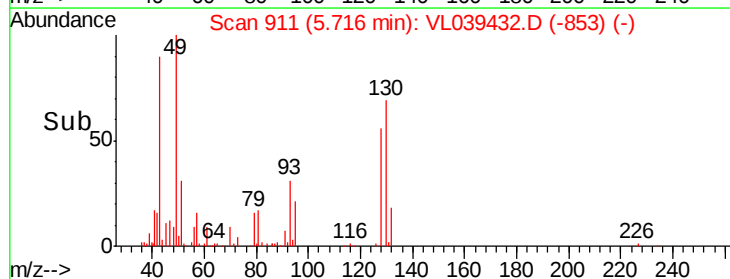
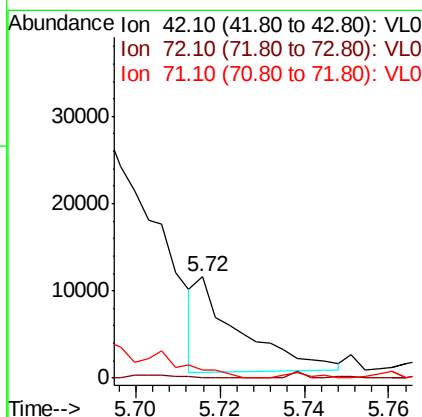
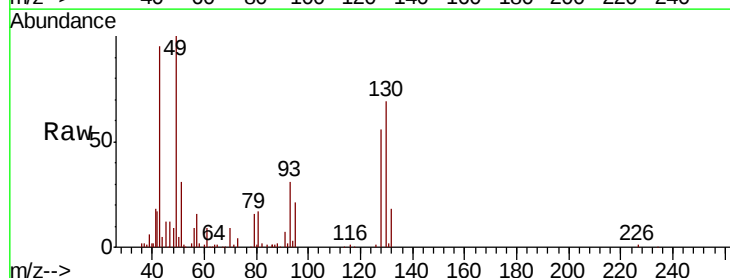
#39
 1,2-Dichloropropane
 Concen: 8.472 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 23:41

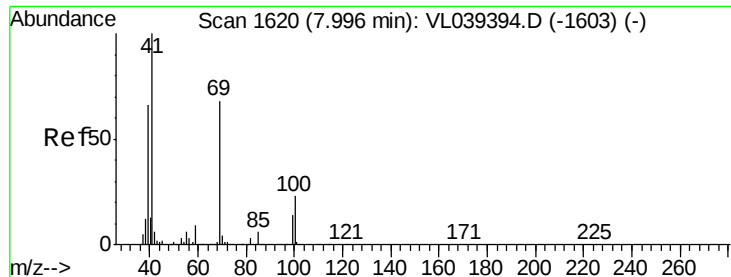
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	17.3	51.4	77.0#



#41
 Tetrahydrofuran
 Concen: 0.082 ppbv
 RT: 5.72 min Scan# 911
 Delta R.T. -0.31 min
 Lab File: VL039432.D
 Acq: 5 Jul 2022 23:41

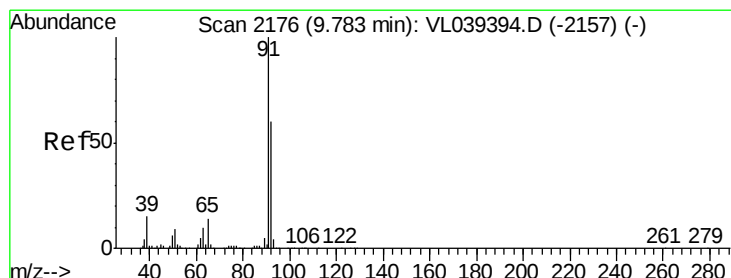
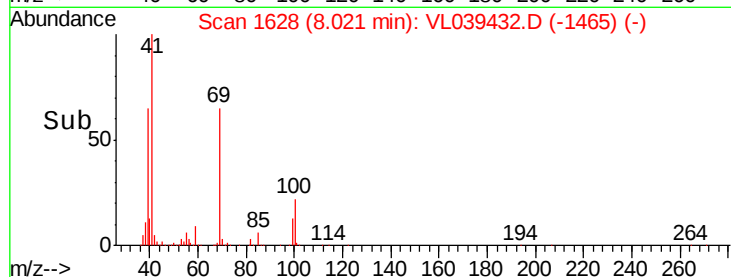
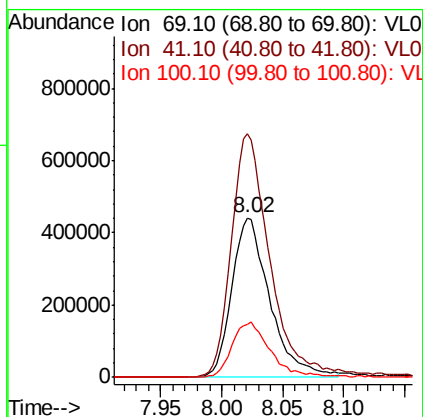
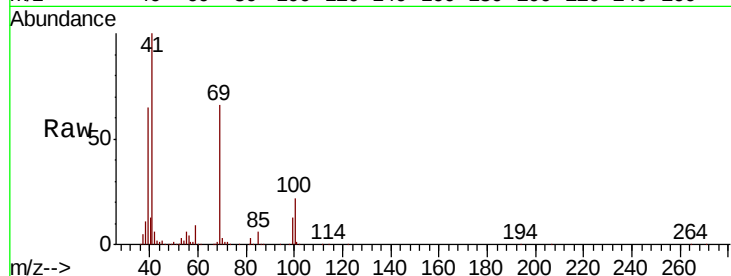
Tgt Ion	Ratio	Lower	Upper
42	100		
72	2.5	31.8	47.8#
71	6.5	31.8	47.8#





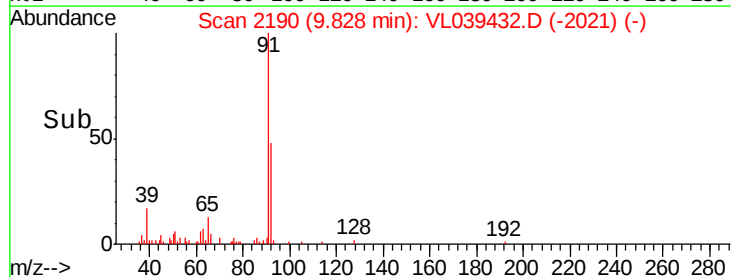
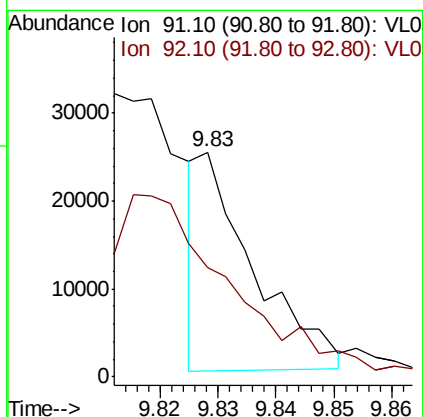
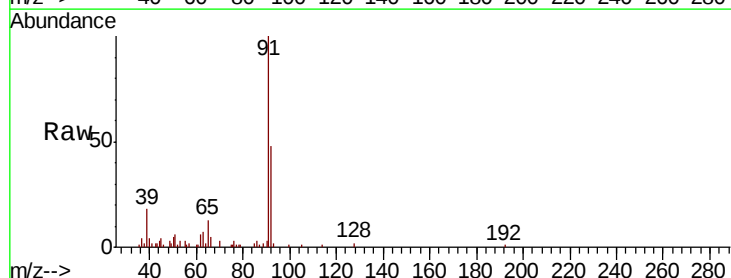
#43
Methvl Methacrylate
Concen: 9.930 ppbv
RT: 8.02
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 23:41

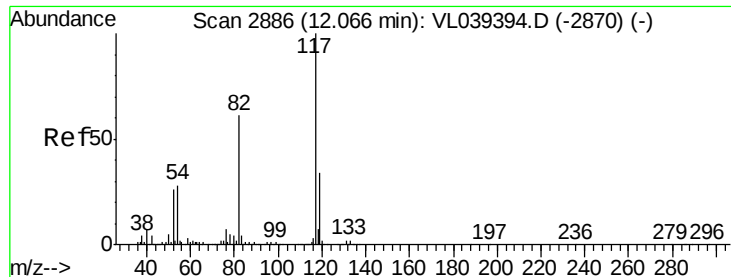
Tot Ion: 69 Resp: 956367
Ion Ratio Lower Upper
69 100
41 160.5 120.8 181.2
100 35.7 27.8 41.6



#53
Toluene
Concen: 0.055 ppbv
RT: 9.83 min Scan# 2190
Delta R.T. 0.04 min
Lab File: VL039432.D
Acq: 5 Jul 2022 23:41

Tgt Ion: 91 Resp: 16204
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.2#

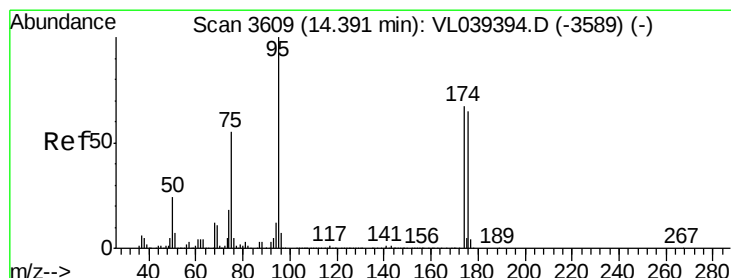
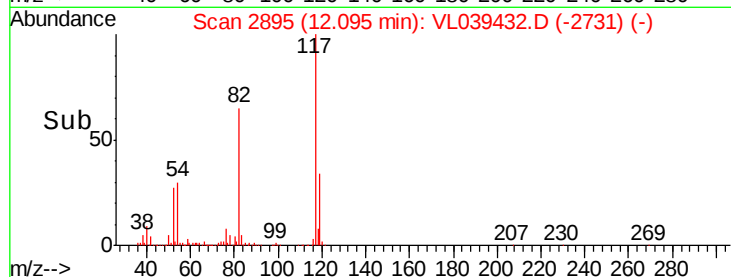
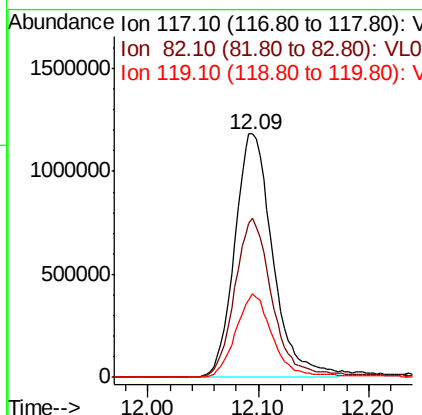
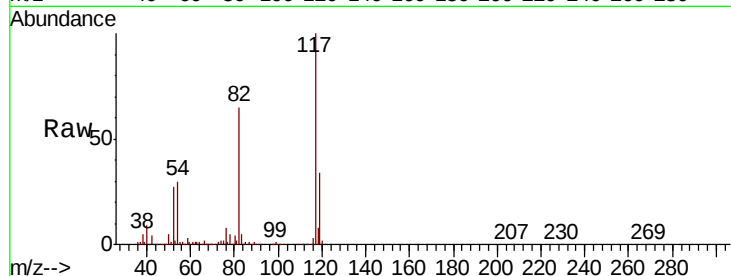




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 5 Jul 2022 23:41

Tot Ion: 117 Resp: 2829223

Ion	Ratio	Lower	Upper
117	100		
82	67.3	50.8	76.2
119	34.3	24.1	36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.153 ppbv
RT: 14.42 min Scan# 3619
Delta R.T.: 0.03 min
Lab File: VL039432.D
Acq: 5 Jul 2022 23:41

Tgt Ion: 95 Resp: 2131019

Ion	Ratio	Lower	Upper
95	100		
174	69.3	55.9	83.9
175	4.9	4.2	6.4

