

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039426.D
 Acq On : 5 Jul 2022 19:31
 Operator : SY/AP
 Sample : N3560-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jul 06 02:36:33 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	5.67	49	1242532	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3475660	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	2918169	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2180589	10.07	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

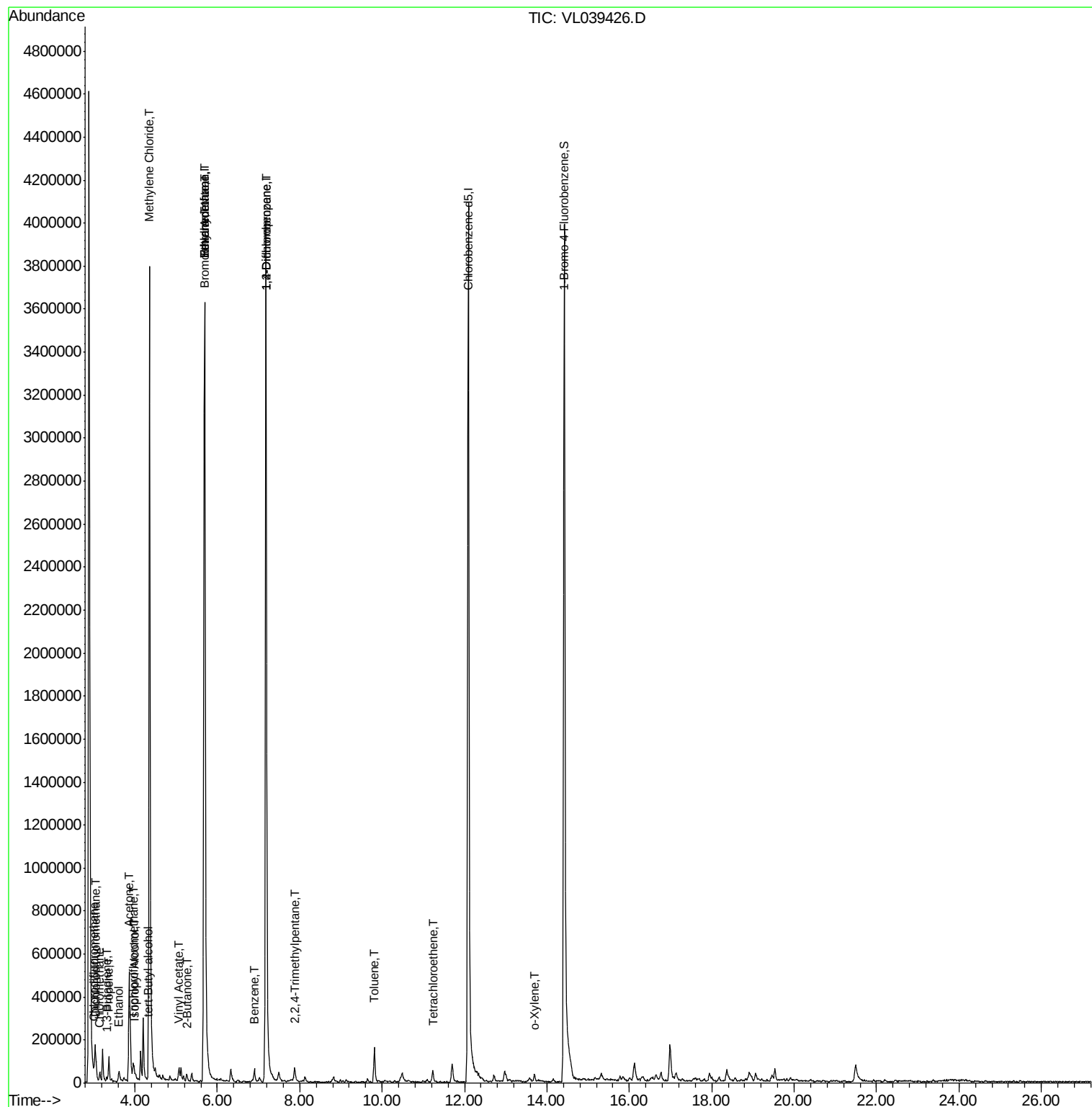
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	49768	0.278	ppbv	96
3) Chlorodifluoromethane	3.00	51	79241	0.503	ppbv #	84
4) Chloromethane	3.15	50	39073	0.453	ppbv #	86
9) Propene	3.36	41	25335	0.356	ppbv	93
11) Trichlorofluoromethane	3.96	101	39916	0.200	ppbv	95
13) Ethanol	3.61	45	30984	7.502	ppbv #	23
15) Acetone	3.85	43	728741	4.957	ppbv	97
16) 1,3-Butadiene	3.32	39	5607	0.074	ppbv #	60
17) tert-Butyl alcohol	4.31	59	4197	0.034	ppbv #	71
19) Isopropyl Alcohol	3.98	45	36105	0.460	ppbv #	88
20) Methylene Chloride	4.35	84	1593929	27.204	ppbv	96
23) Vinyl Acetate	5.07	43	13816	0.141	ppbv #	52
25) Ethyl Acetate	5.70	43	878793	2.916	ppbv #	76
26) Hexane	5.69	57	1274672	10.491	ppbv #	38
34) 2-Butanone	5.26	43	25036	0.143	ppbv #	33
36) Benzene	6.89	78	26680	0.099	ppbv	95
39) 1,2-Dichloropropane	7.18	63	852843	8.487	ppbv #	25
41) Tetrahydrofuran	5.70	42	452916	4.467	ppbv #	49
44) 2,2,4-Trimethylpentane	7.88	57	28101	0.062	ppbv #	8
52) Tetrachloroethene	11.23	164	5193	0.048	ppbv #	72
53) Toluene	9.81	91	117480	0.379	ppbv	99
60) o-Xylene	13.70	91	20277	0.064	ppbv	85

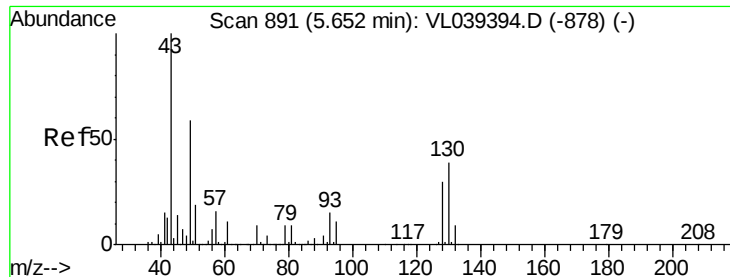
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 19:31

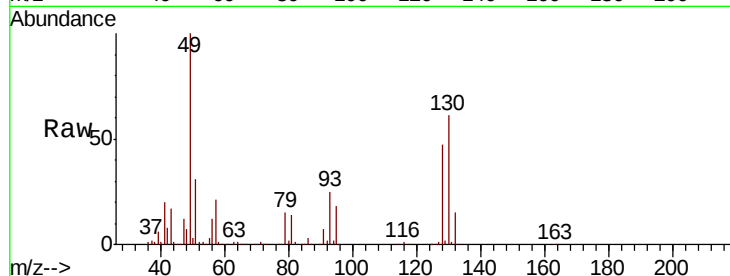
Tot Ion: 49 Resp: 1242532

Ion Ratio Lower Upper

49 100

128 52.4 26.7 80.0

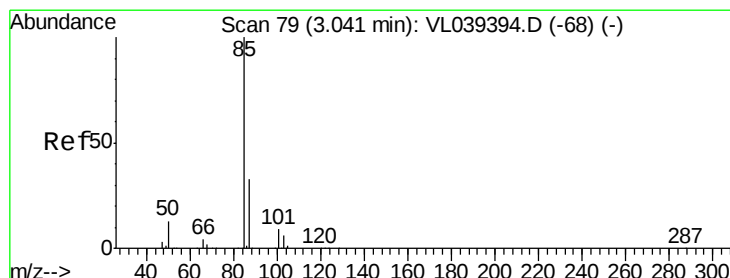
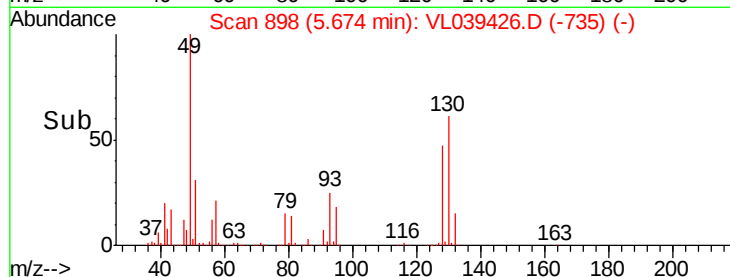
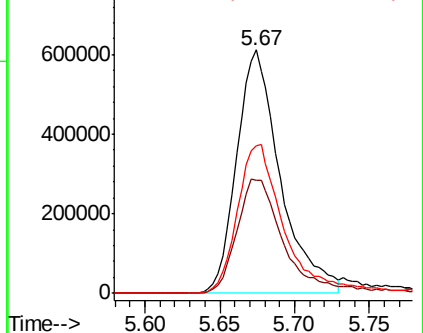
130 67.7 34.3 102.8



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: 0.278 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL039426.D

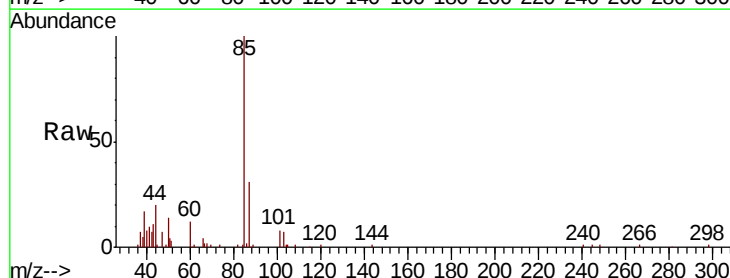
Acq: 5 Jul 2022 19:31

Tgt Ion: 85 Resp: 49768

Ion Ratio Lower Upper

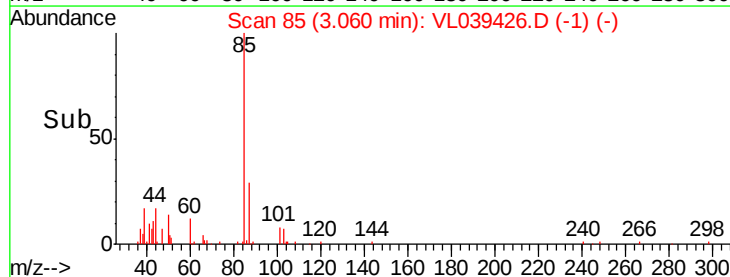
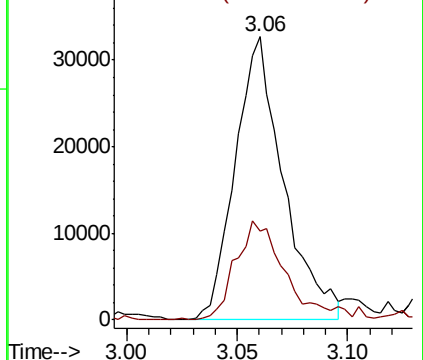
85 100

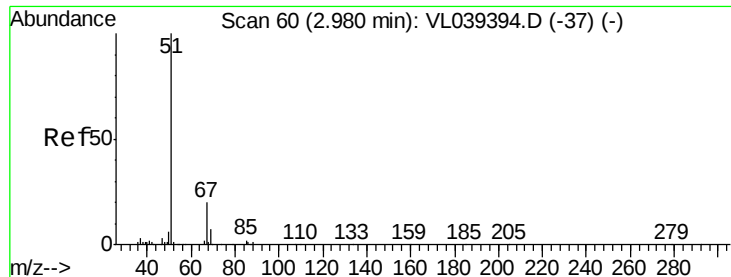
87 31.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.503 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

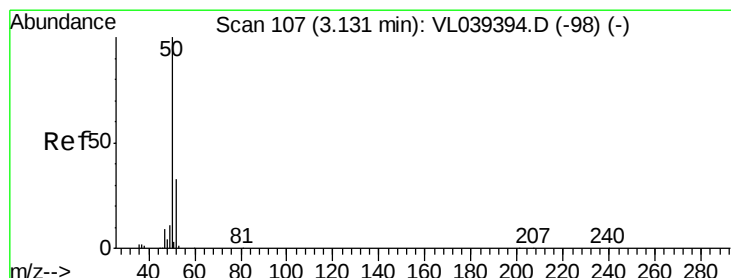
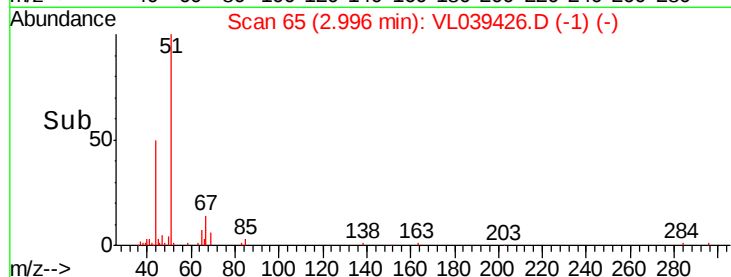
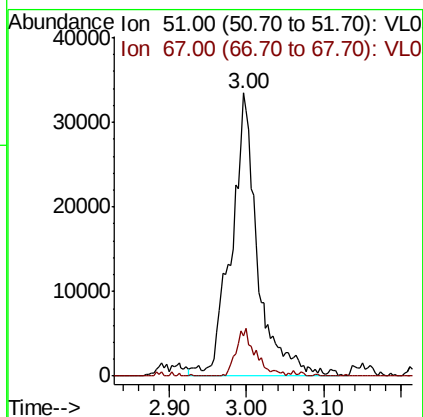
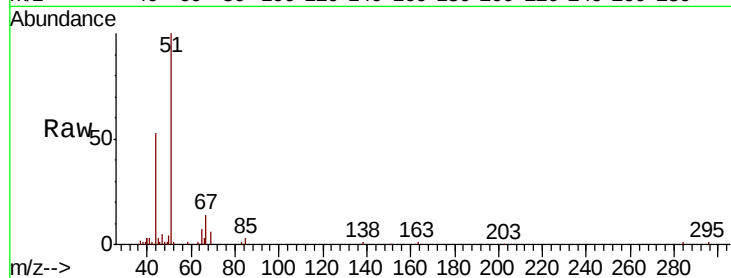
Acq: 5 Jul 2022 19:31

Tot Ion: 51 Resp: 79241

Ion Ratio Lower Upper

51 100

67 12.2 15.7 23.5#



#4

Chloromethane

Concen: 0.453 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL039426.D

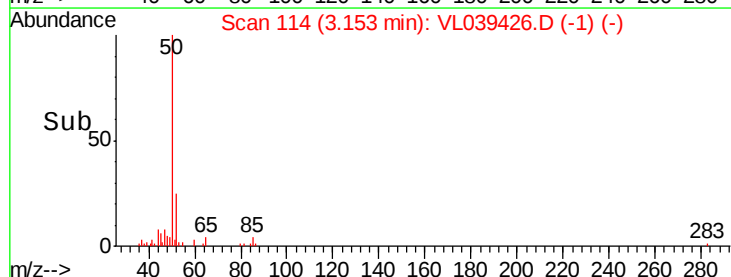
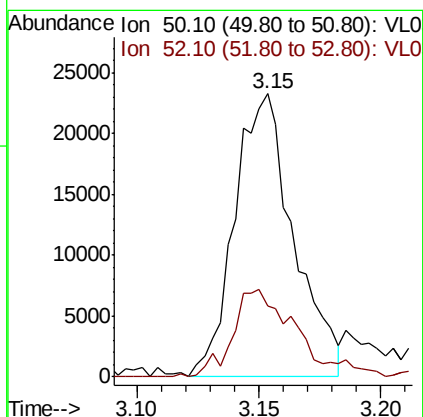
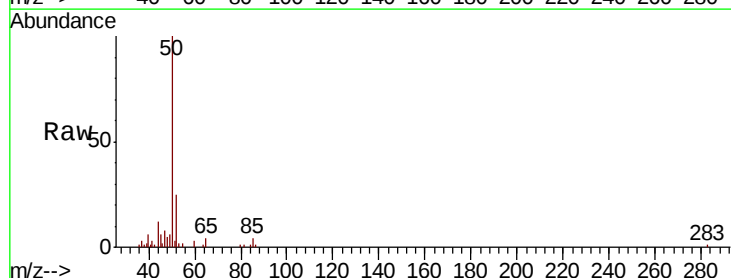
Acq: 5 Jul 2022 19:31

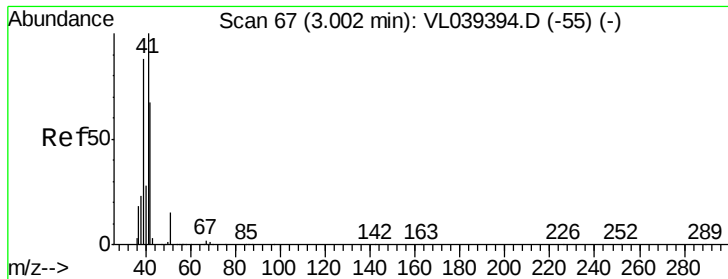
Tgt Ion: 50 Resp: 39073

Ion Ratio Lower Upper

50 100

52 25.2 26.5 39.7#





#9

Propene

Concen: 0.356 ppbv

RT: 3.36 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

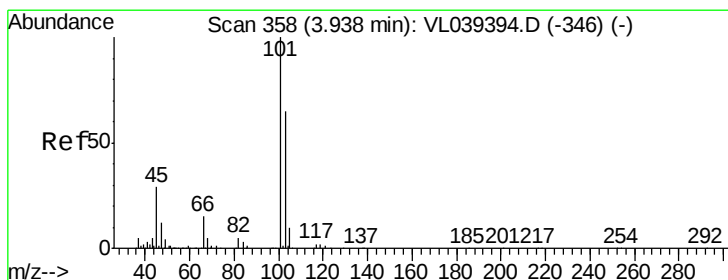
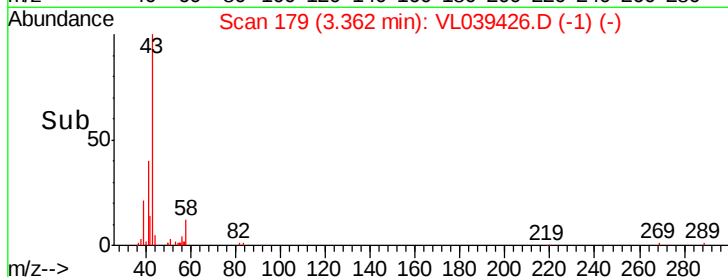
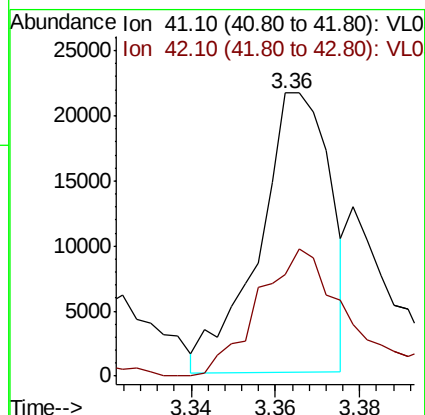
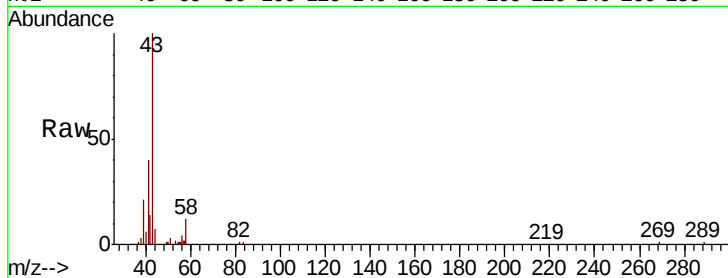
Acq: 5 Jul 2022 19:31

Tot Ion: 41 Resp: 25335

Ion Ratio Lower Upper

41 100

42 63.5 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.200 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.03 min

Lab File: VL039426.D

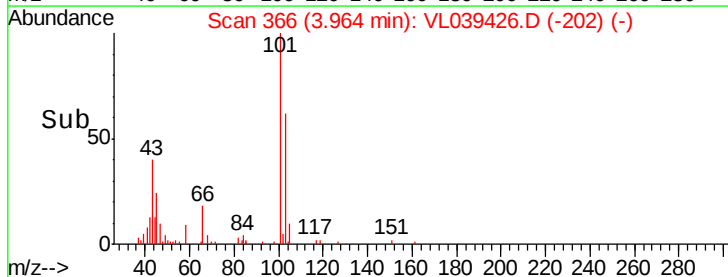
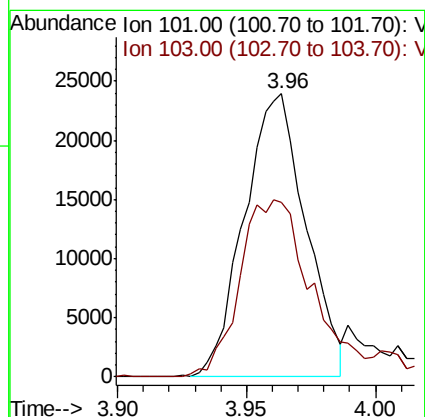
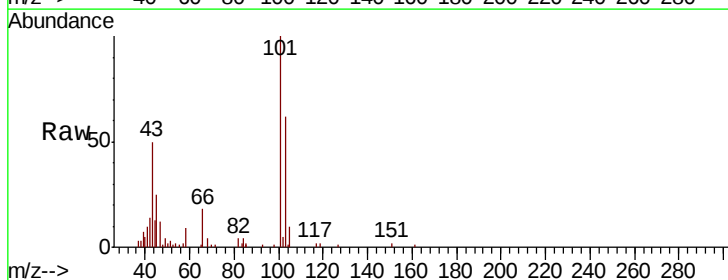
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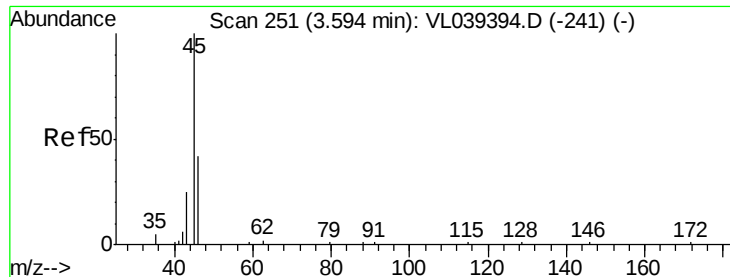
Tgt Ion: 101 Resp: 39916

Ion Ratio Lower Upper

101 100

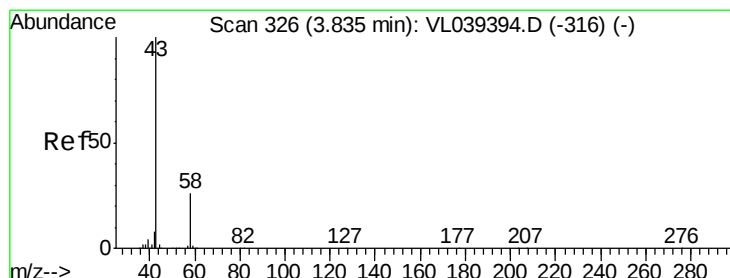
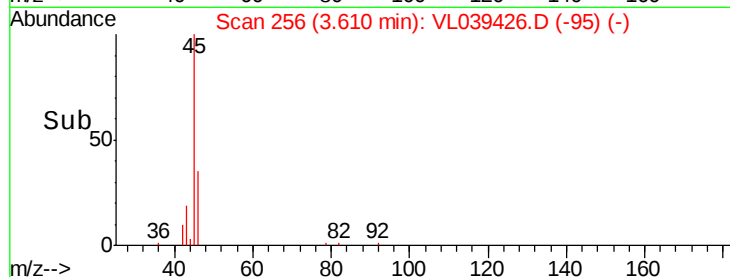
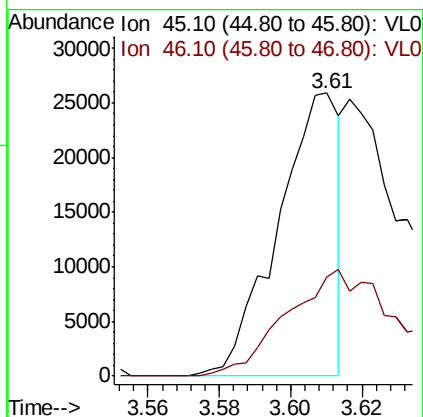
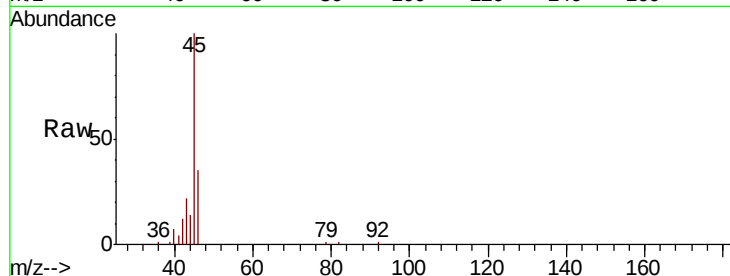
103 60.8 51.8 77.8





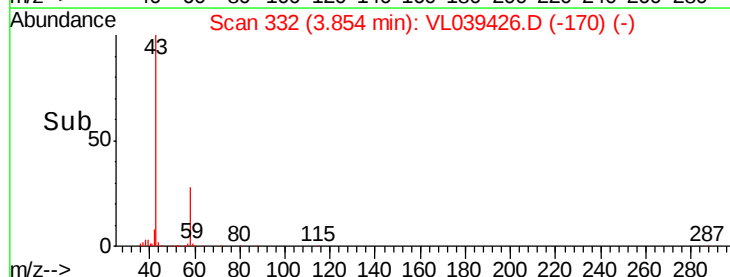
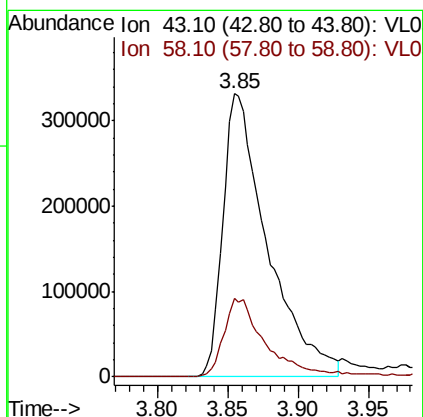
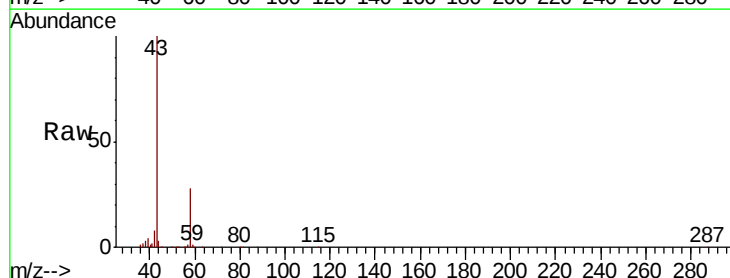
#13
 Ethanol
 Concen: 7.502 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 19:31

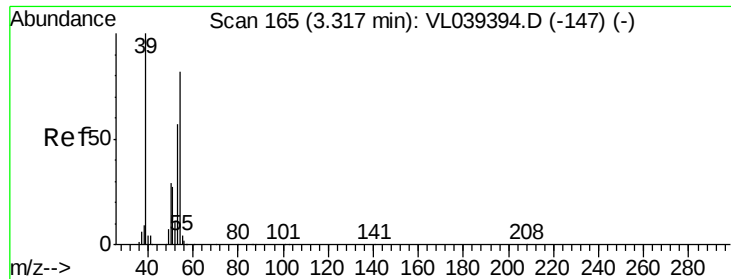
Tot Ion: 45 Resp: 30984
 Ion Ratio Lower Upper
 45 100
 46 0.0 22.8 91.2#



#15
 Acetone
 Concen: 4.957 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.02 min
 Lab File: VL039426.D
 Acq: 5 Jul 2022 19:31

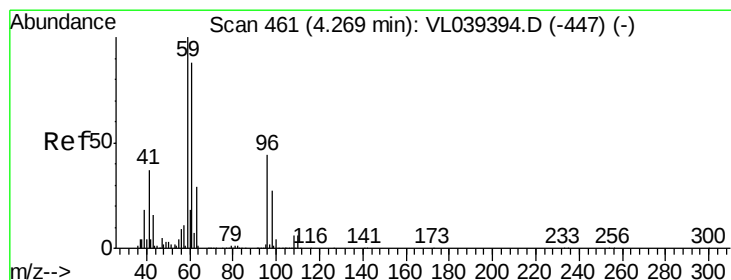
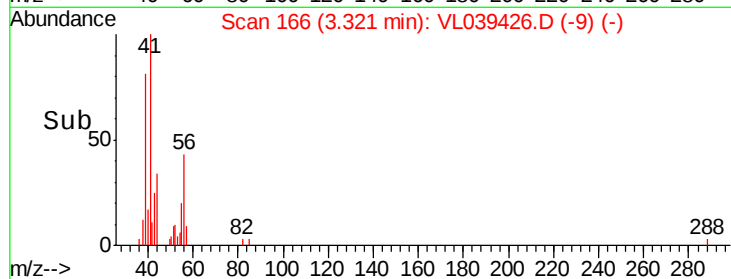
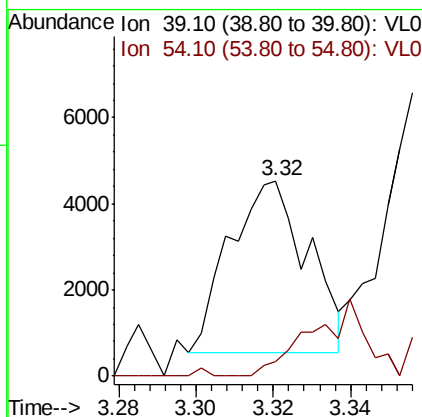
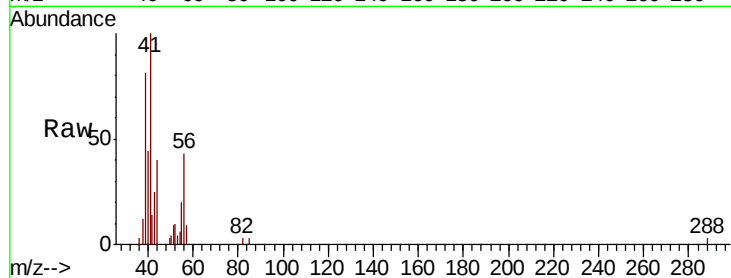
Tgt Ion: 43 Resp: 728741
 Ion Ratio Lower Upper
 43 100
 58 27.7 21.0 31.6





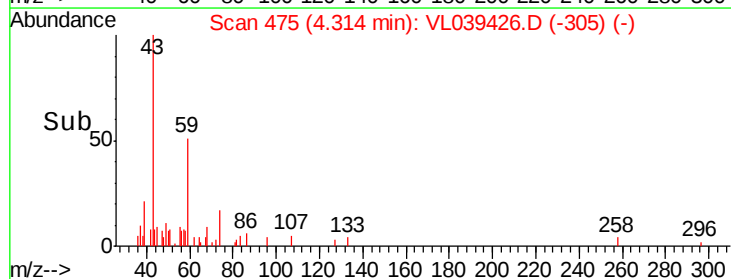
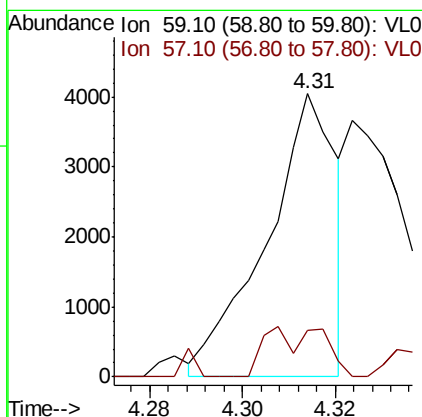
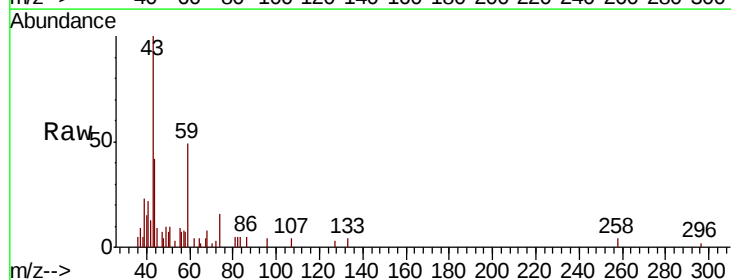
#16
 1,3-Butadiene
 Concen: 0.074 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 19:31

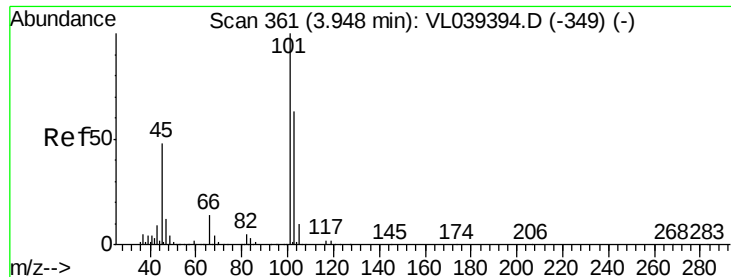
Tot Ion: 39 Resp: 5607
 Ion Ratio Lower Upper
 39 100
 54 44.0 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.034 ppbv
 RT: 4.31 min Scan# 475
 Delta R.T. 0.05 min
 Lab File: VL039426.D
 Acq: 5 Jul 2022 19:31

Tgt Ion: 59 Resp: 4197
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.460 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

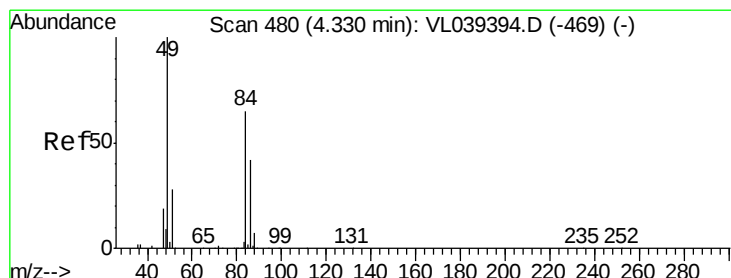
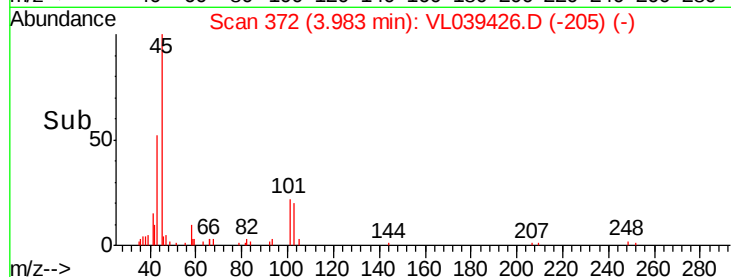
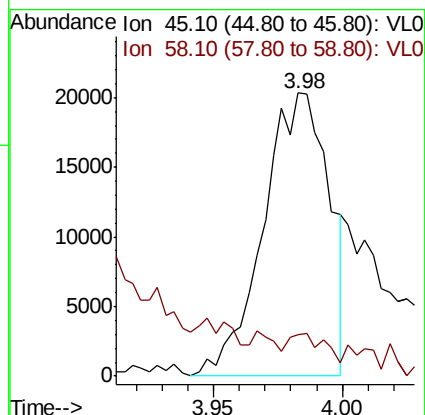
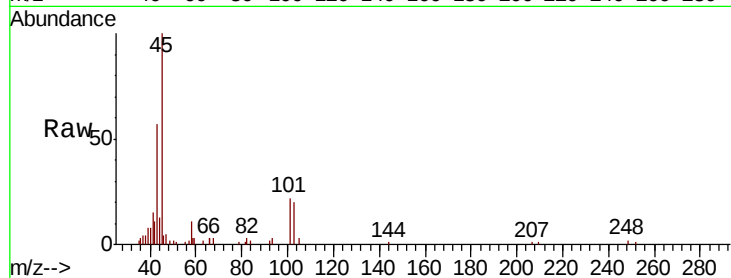
Acq: 5 Jul 2022 19:31

Tot Ion: 45 Resp: 36105

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 27.204 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

Tgt Ion: 84 Resp: 1593929

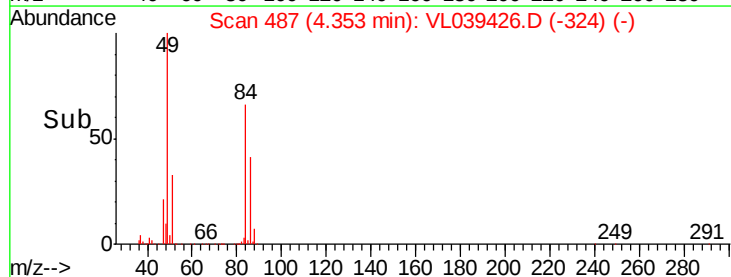
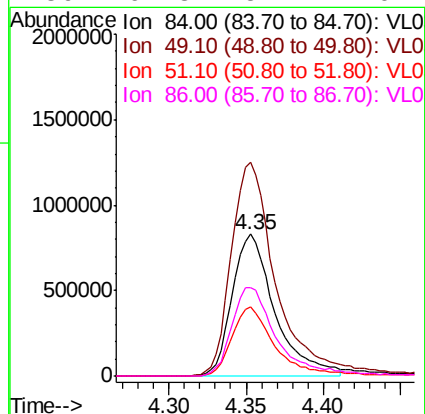
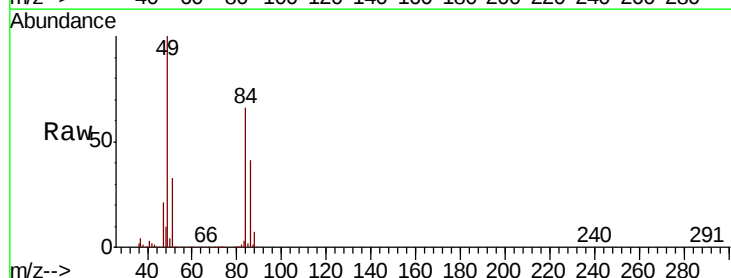
Ion Ratio Lower Upper

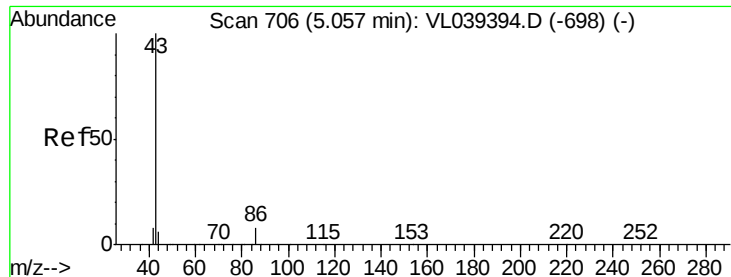
84 100

49 150.5 123.1 184.7

51 49.1 34.4 51.6

86 62.3 51.1 76.7





#23

Vinyl Acetate

Concen: 0.141 ppbv

RT: 5.07 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 19:31

Tot Ion: 43 Resp: 13816

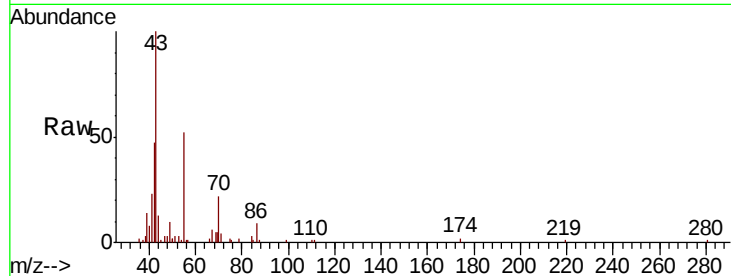
Ion Ratio Lower Upper

43 100

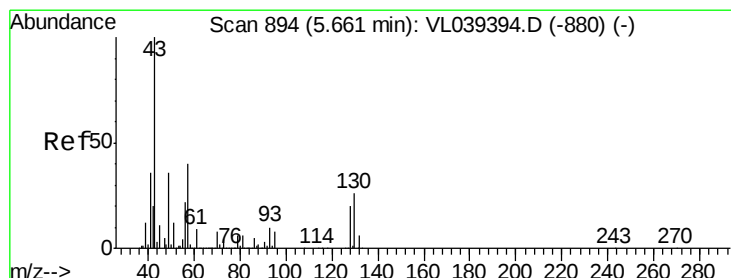
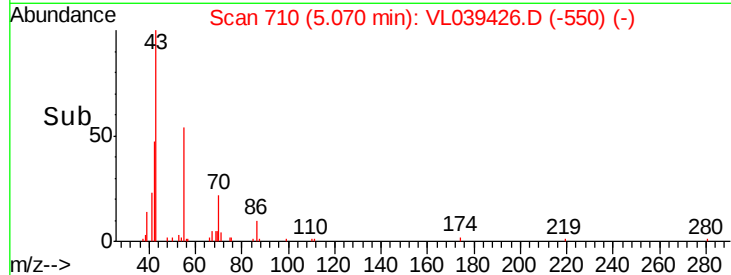
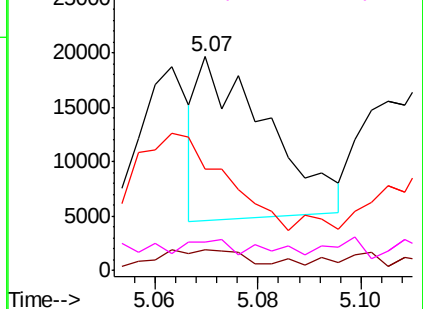
86 8.5 5.0 7.6#

42 46.6 7.7 11.5#

44 3.5 4.6 7.0#



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: 2.916 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.04 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

Tgt Ion: 43 Resp: 878793

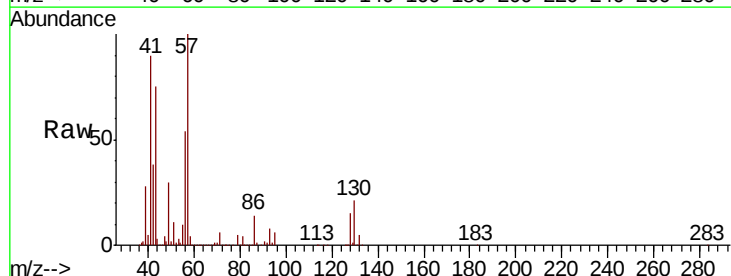
Ion Ratio Lower Upper

43 100

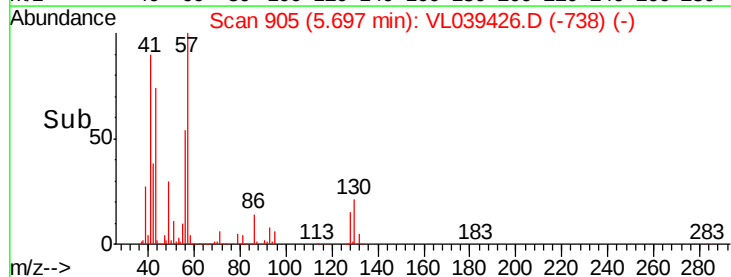
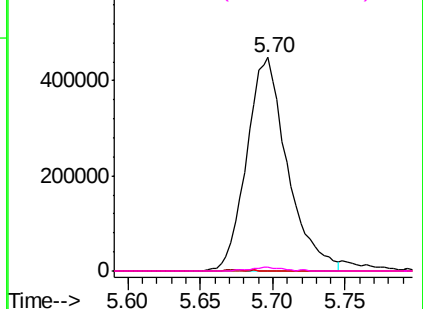
45 0.5 8.2 12.4#

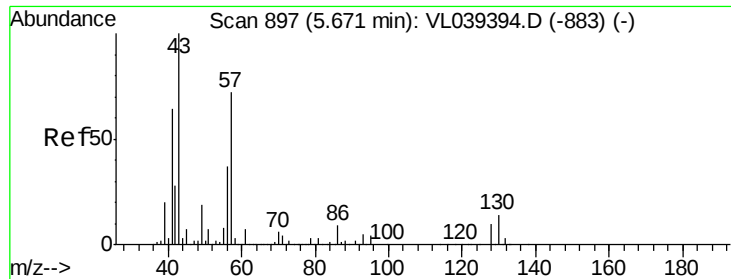
61 0.4 8.3 12.5#

70 1.8 5.9 8.9#



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: 10.491 ppbv

RT: 5.69 Instrument:

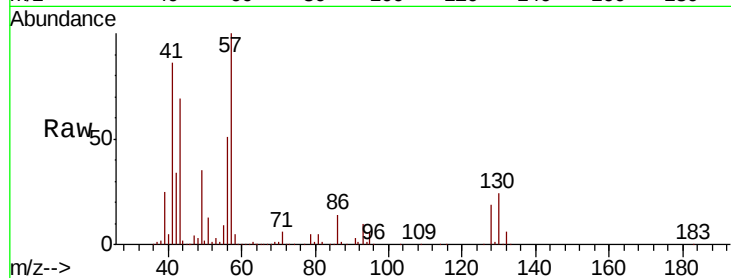
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

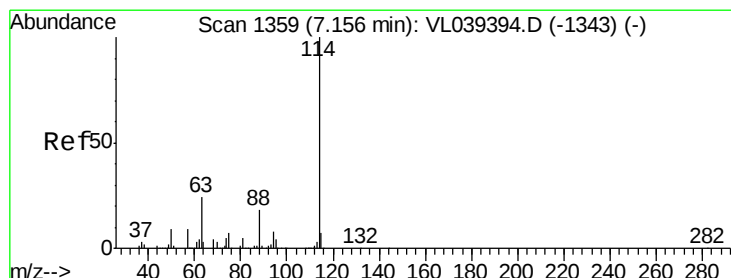
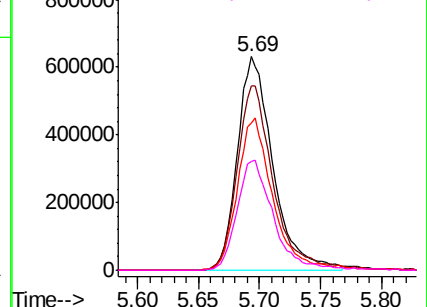
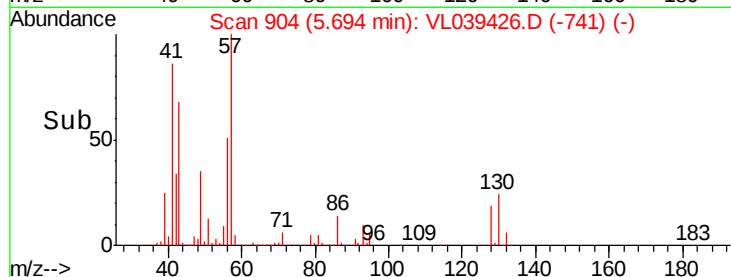
Acq: 5 Jul 2022 19:31

Tot Ion: 57 Resp: 1274672

Ion	Ratio	Lower	Upper
57	100		
41	89.2	76.9	115.3
43	71.7	191.0	286.6#
56	53.1	43.2	64.8



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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

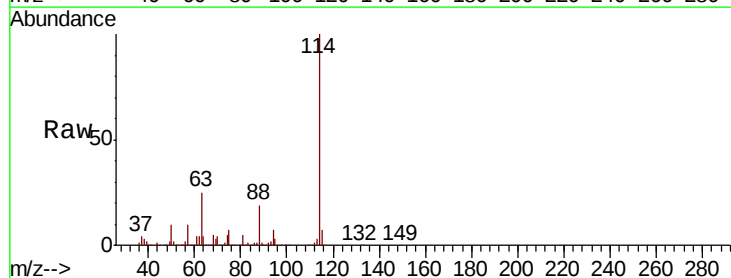
Delta R.T. 0.03 min

Lab File: VL039426.D

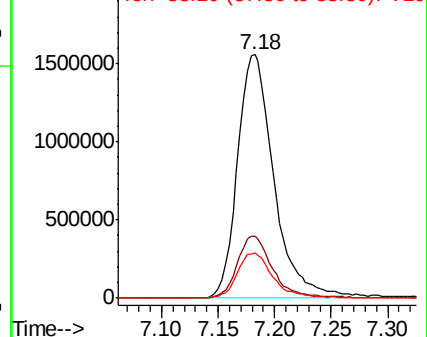
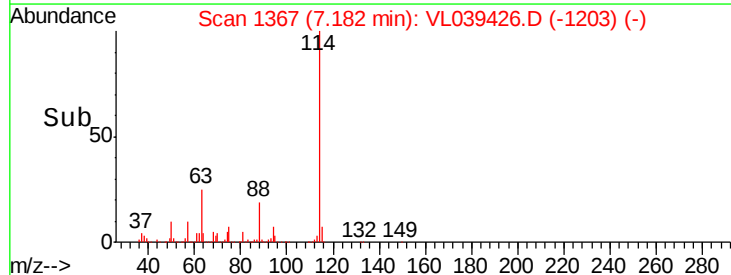
Acq: 5 Jul 2022 19:31

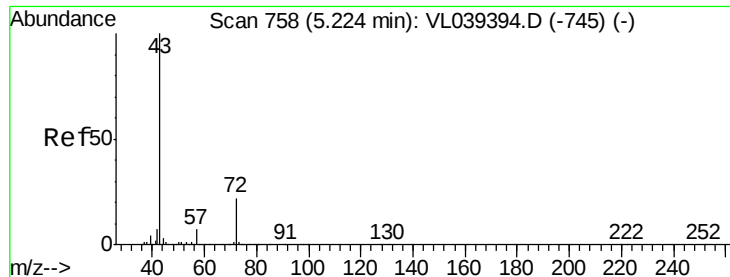
Tgt Ion: 114 Resp: 3475660

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.2	30.4
88	18.5	14.5	21.7



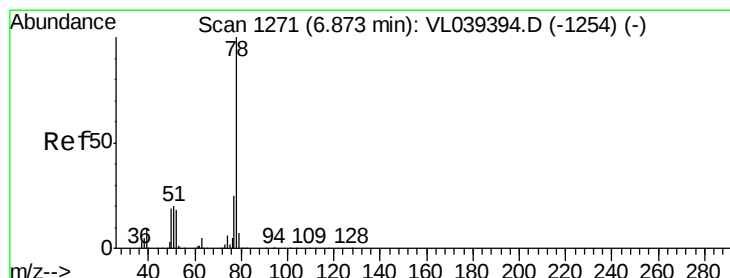
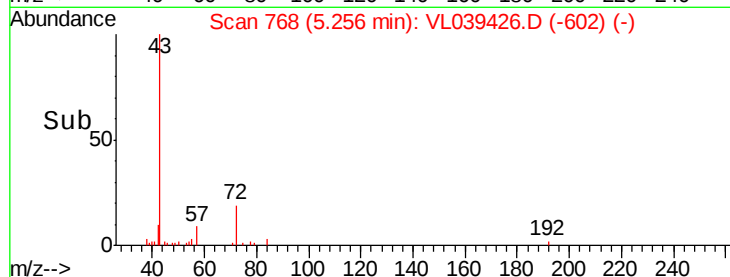
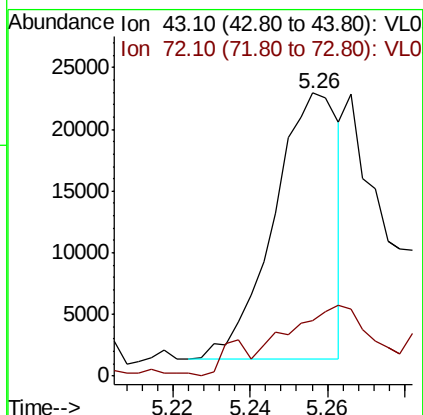
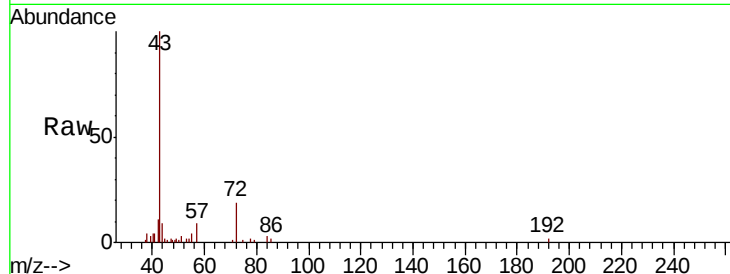
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





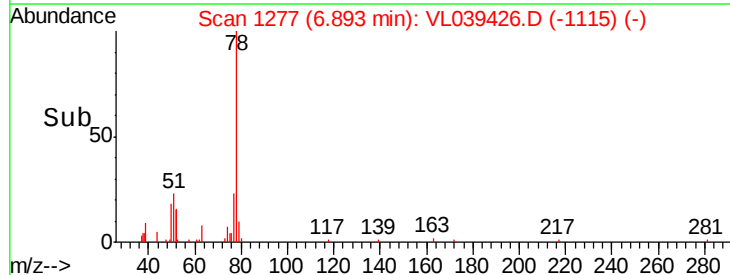
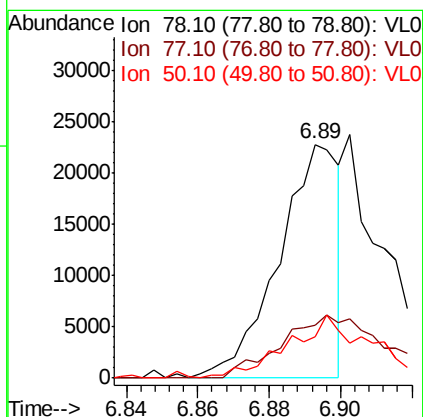
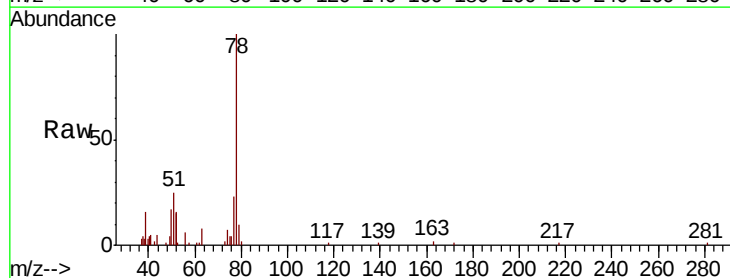
#34
2-Butanone
Concen: 0.143 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 5 Jul 2022 19:31

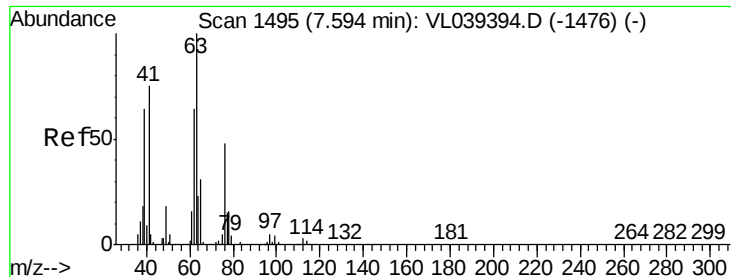
Tot Ion: 43 Resp: 25036
Ion Ratio Lower Upper
43 100
72 54.4 17.9 26.9#



#36
Benzene
Concen: 0.099 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.02 min
Lab File: VL039426.D
Acq: 5 Jul 2022 19:31

Tgt Ion: 78 Resp: 26680
Ion Ratio Lower Upper
78 100
77 22.8 20.3 30.5
50 16.7 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.487 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 19:31

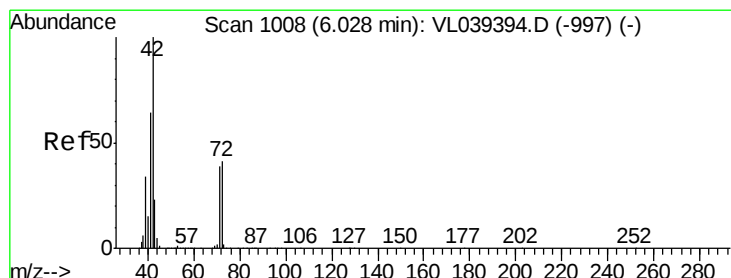
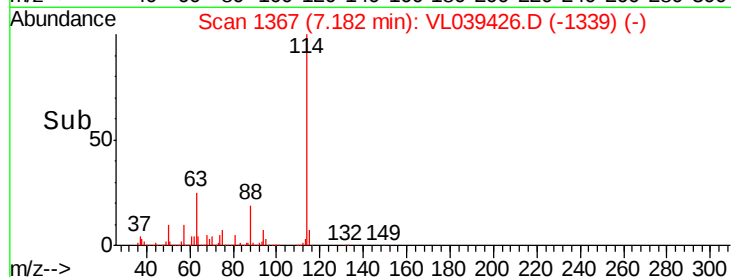
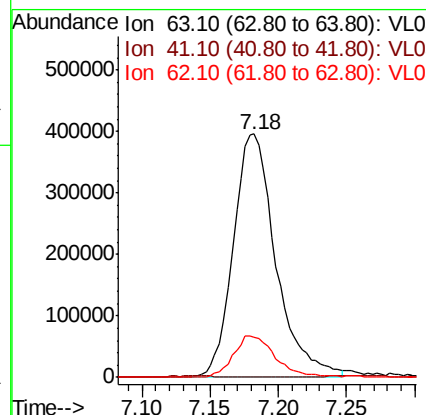
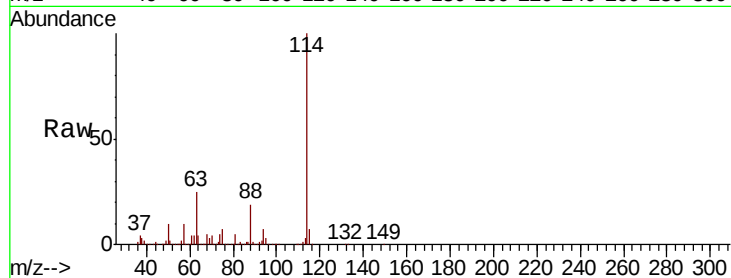
Tot Ion: 63 Resp: 852843

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 16.3 51.4 77.0#



#41

Tetrahydrofuran

Concen: 4.467 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.33 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

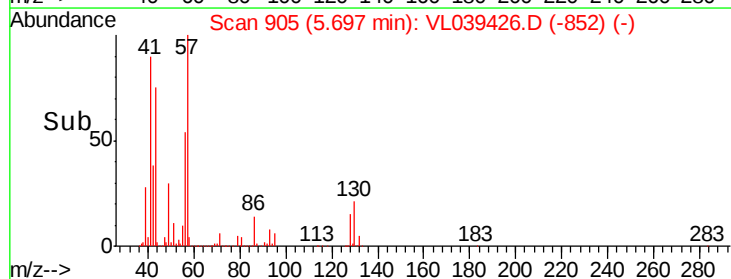
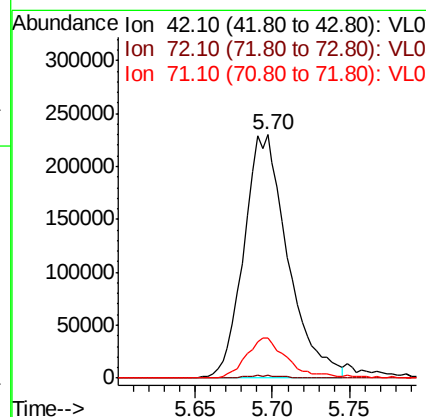
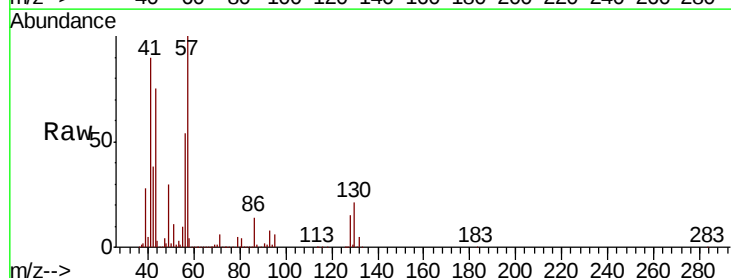
Tgt Ion: 42 Resp: 452916

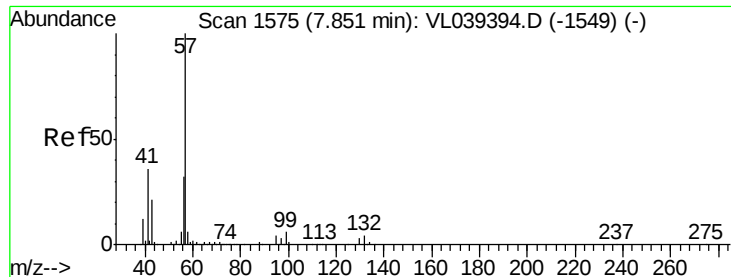
Ion Ratio Lower Upper

42 100

72 1.1 31.8 47.8#

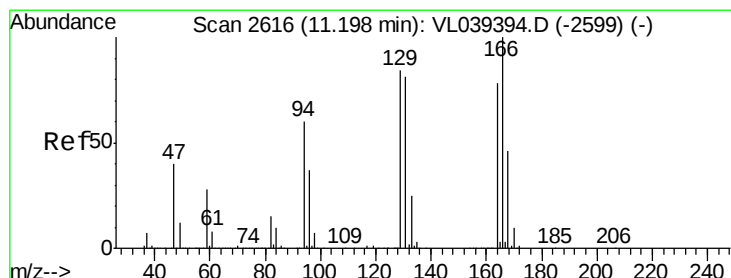
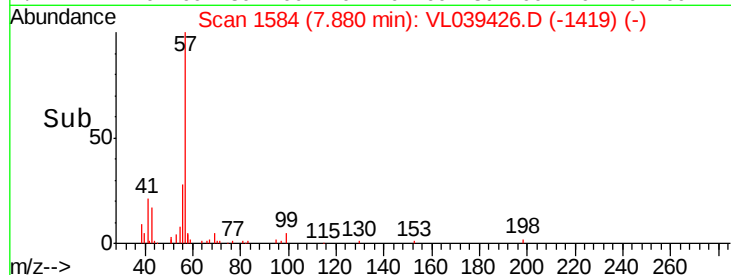
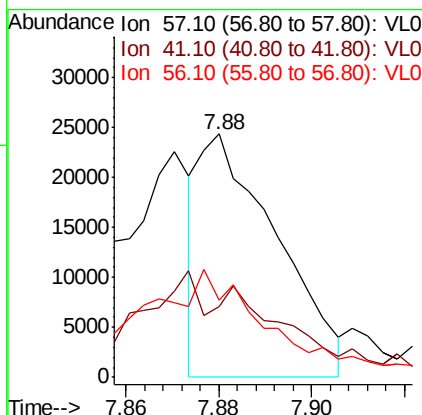
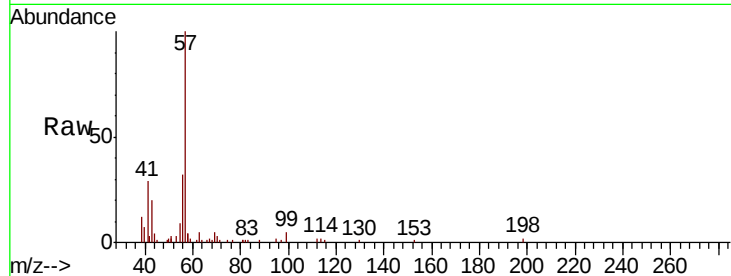
71 16.1 31.8 47.8#





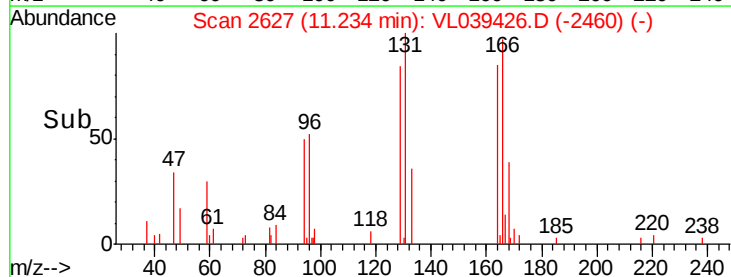
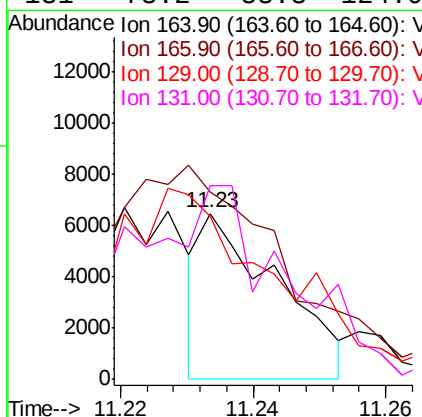
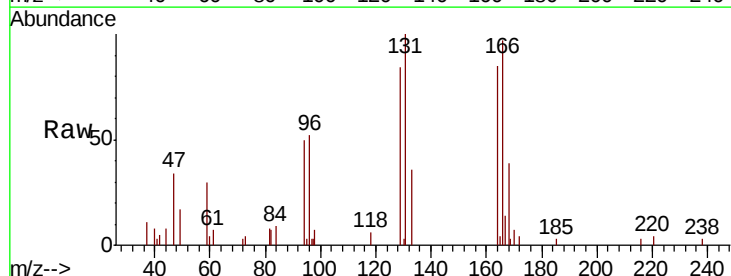
#44
2,2,4-Trimethylpentane
Concen: 0.062 ppbv
RT: 7.88 min
Delta R.T.: MSVOA_1
Lab File: ClientSampleId :
Acq: 5 Jul 2022 19:31

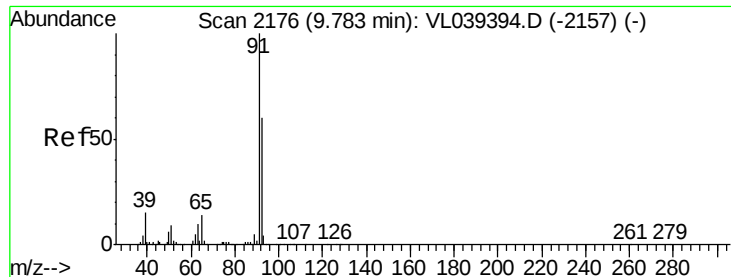
Tot Ion: 57 Resp: 28101
Ion Ratio Lower Upper
57 100
41 82.7 27.4 41.2#
56 85.3 24.5 36.7#



#52
Tetrachloroethene
Concen: 0.048 ppbv
RT: 11.23 min Scan# 2627
Delta R.T.: 0.04 min
Lab File: VL039426.D
Acq: 5 Jul 2022 19:31

Tgt Ion: 164 Resp: 5193
Ion Ratio Lower Upper
164 100
166 93.7 102.2 153.2#
129 76.4 85.8 128.8#
131 78.2 83.3 124.9#





#53

Toluene

Concen: 0.379 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

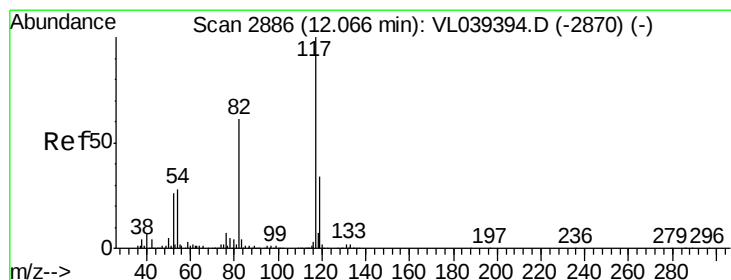
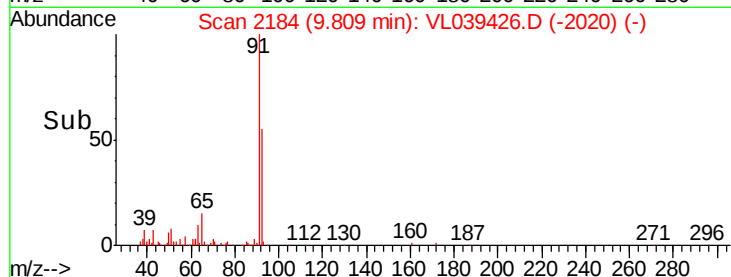
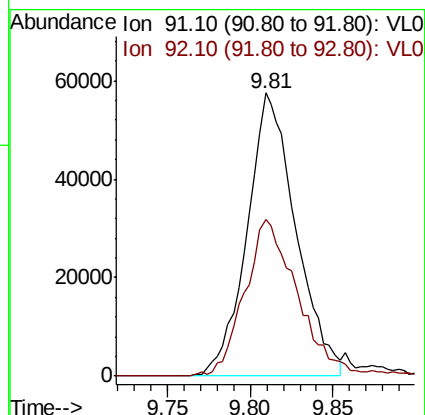
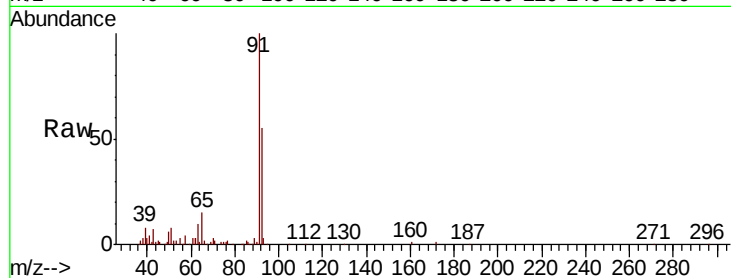
Acq: 5 Jul 2022 19:31

Tot Ion: 91 Resp: 117480

Ion Ratio Lower Upper

91 100

92 61.0 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.03 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

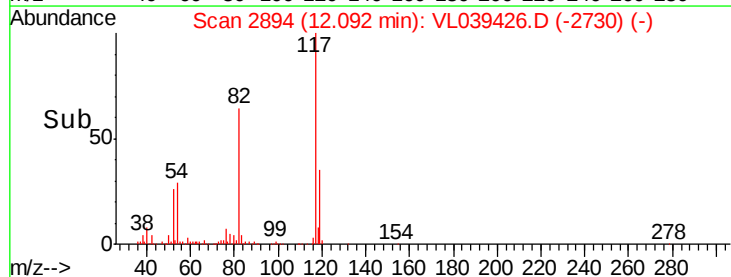
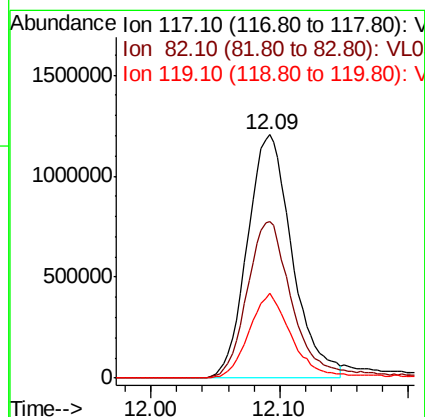
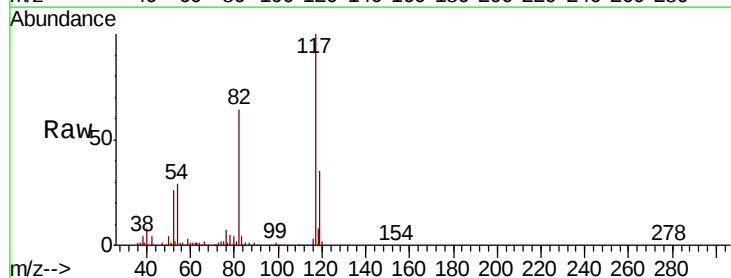
Tgt Ion: 117 Resp: 2918169

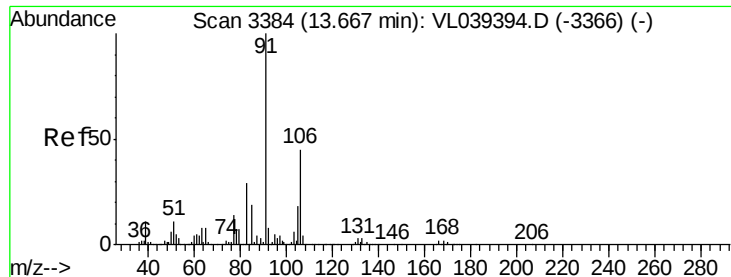
Ion Ratio Lower Upper

117 100

82 68.1 50.8 76.2

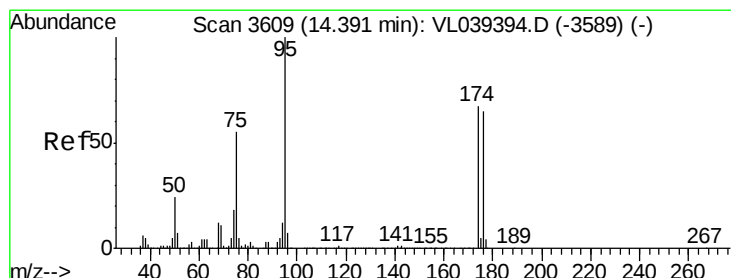
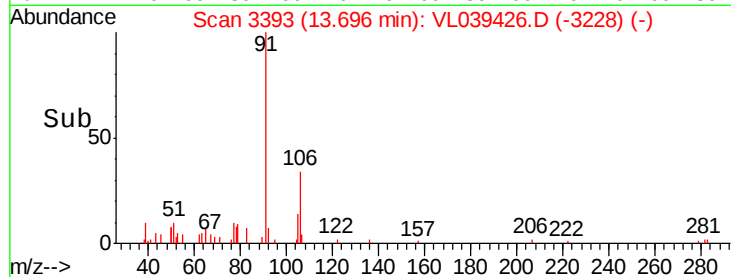
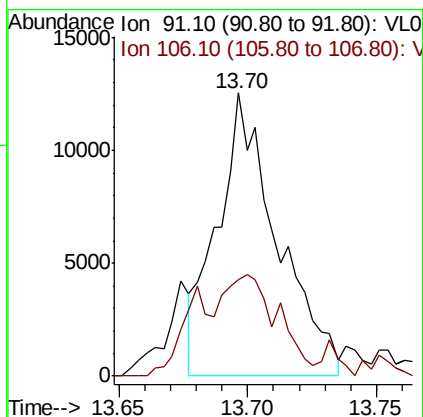
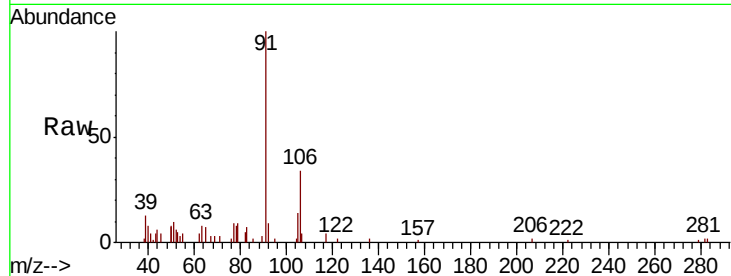
119 35.3 24.1 36.1





#60
o-Xylene
Concen: 0.064 ppbv
RT: 13.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 19:31

Tot Ion: 91 Resp: 20277
Ion Ratio Lower Upper
91 100
106 54.7 22.4 67.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.073 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. 0.03 min
Lab File: VL039426.D
Acq: 5 Jul 2022 19:31

Tgt Ion: 95 Resp: 2180589
Ion Ratio Lower Upper
95 100
174 74.5 55.9 83.9
175 5.3 4.2 6.4

