

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039427.D
 Acq On : 5 Jul 2022 20:13
 Operator : SY/AP
 Sample : N3560-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Jul 06 02:36:45 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	5.67	49	1226303	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3286336	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	2827161	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2120744	10.11	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

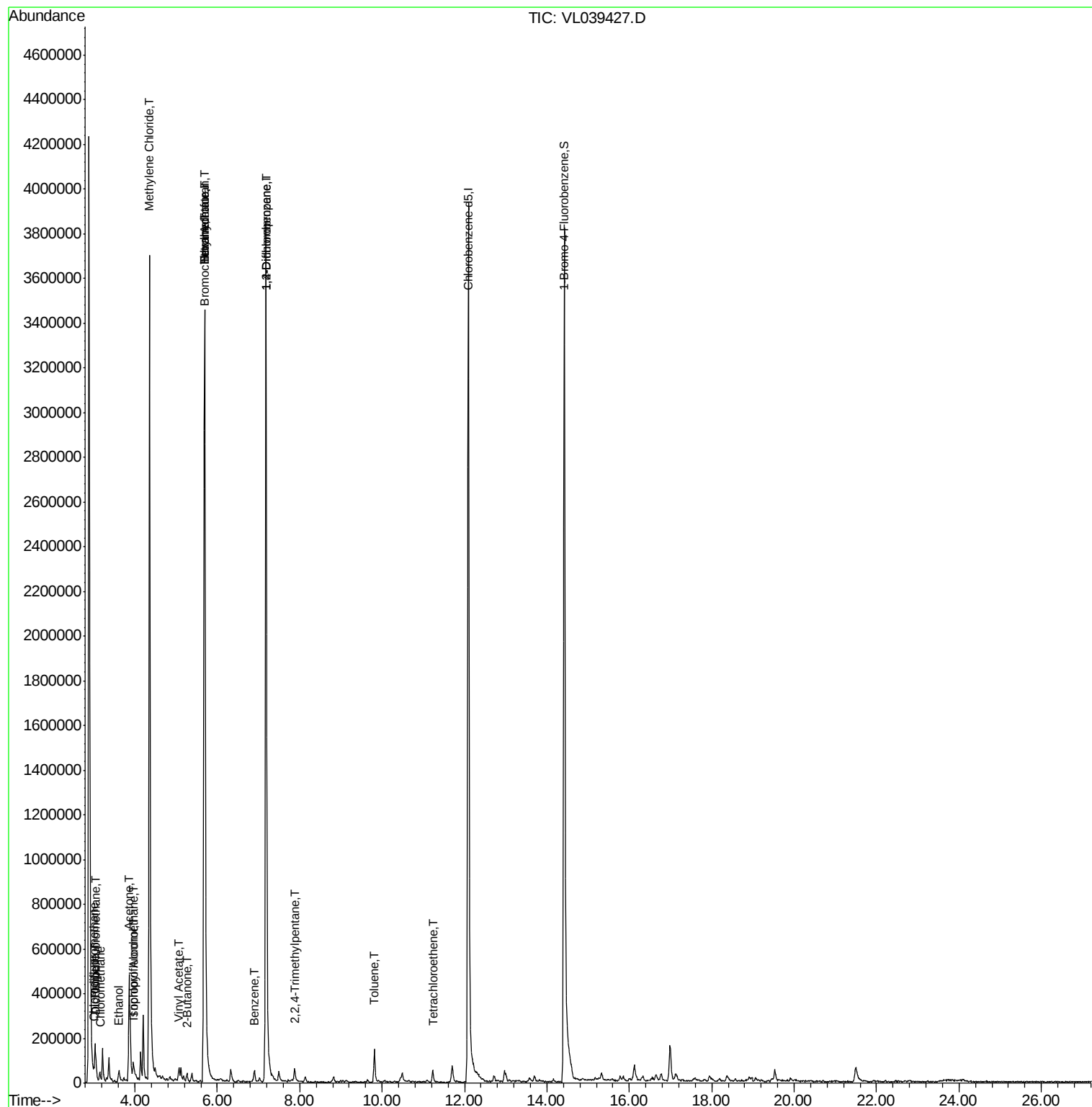
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	47053	0.266 ppbv	94
3) Chlorodifluoromethane	3.00	51	73963	0.475 ppbv #	86
4) Chloromethane	3.15	50	37707	0.443 ppbv	97
9) Propene	3.03	41	40799	0.581 ppbv	88
11) Trichlorofluoromethane	3.96	101	41395	0.210 ppbv	88
13) Ethanol	3.61	45	34664	8.504 ppbv	62
15) Acetone	3.85	43	706130	4.867 ppbv	96
19) Isopropyl Alcohol	3.98	45	37781	0.488 ppbv #	88
20) Methylene Chloride	4.35	84	1615378	27.935 ppbv	98
23) Vinyl Acetate	5.07	43	14758	0.152 ppbv #	57
25) Ethyl Acetate	5.69	43	835109	2.807 ppbv #	76
26) Hexane	5.69	57	1182253	9.859 ppbv #	38
34) 2-Butanone	5.25	43	19956	0.121 ppbv #	14
36) Benzene	6.89	78	12017	0.047 ppbv	97
39) 1,2-Dichloropropane	7.18	63	797773	8.396 ppbv #	24
41) Tetrahydrofuran	5.69	42	426051	4.444 ppbv #	50
44) 2,2,4-Trimethylpentane	7.88	57	27635	0.064 ppbv #	14
52) Tetrachloroethene	11.24	164	4055	0.040 ppbv #	83
53) Toluene	9.81	91	105690	0.360 ppbv	99

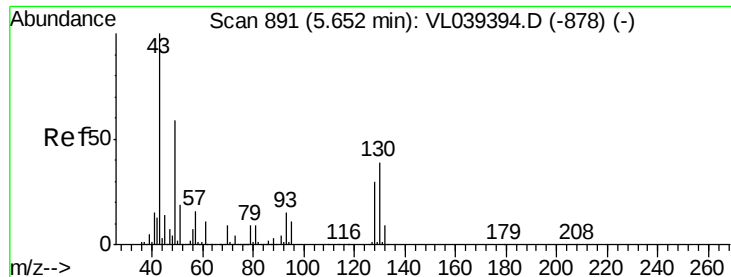
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: IA1DUP

Acq: 5 Jul 2022 20:13

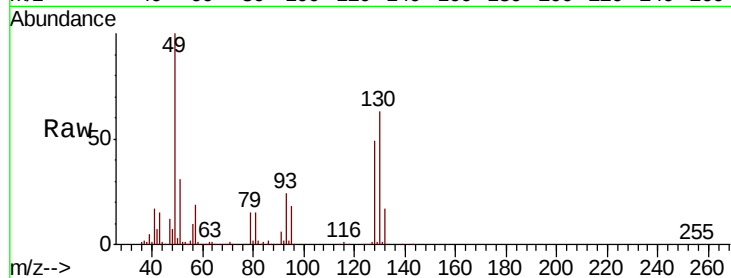
Tot Ion: 49 Resp: 1226303

Ion Ratio Lower Upper

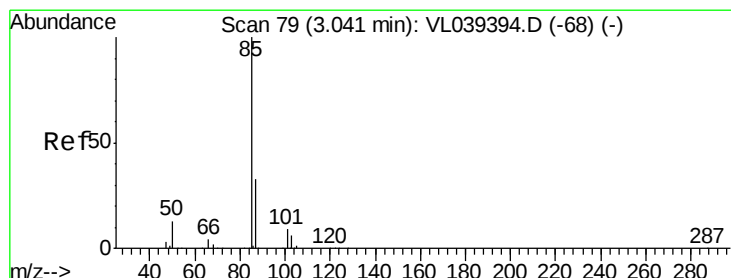
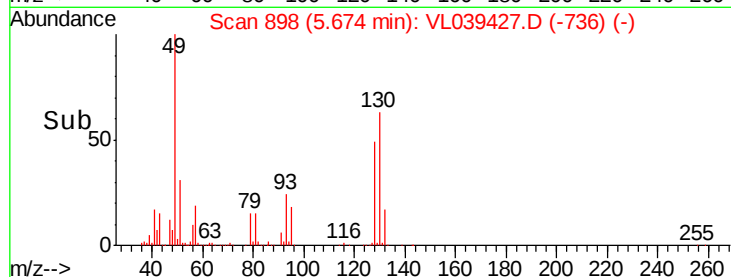
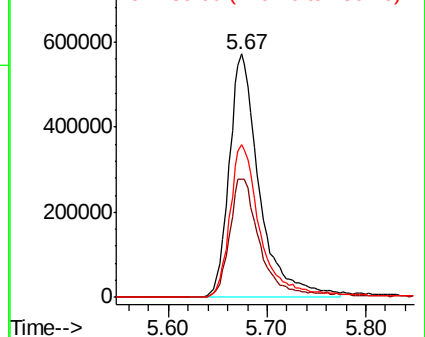
49 100

128 48.5 26.7 80.0

130 65.1 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: 0.266 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL039427.D

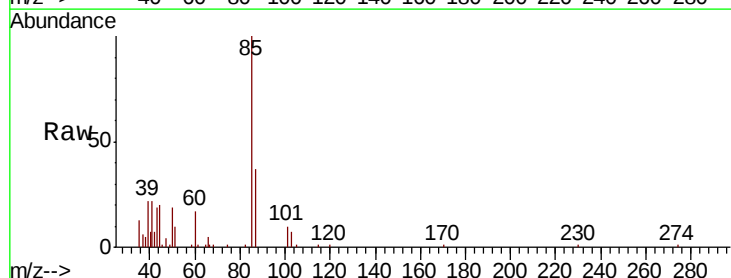
Acq: 5 Jul 2022 20:13

Tgt Ion: 85 Resp: 47053

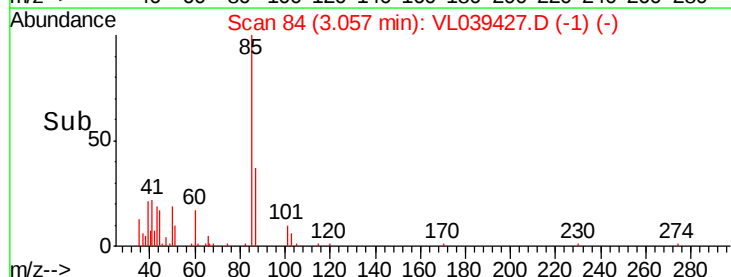
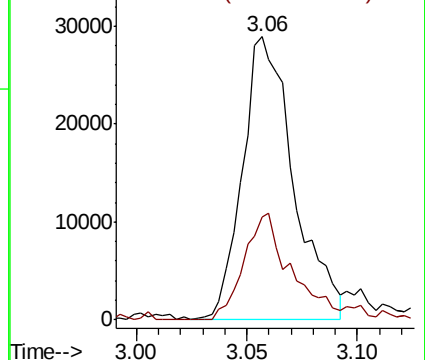
Ion Ratio Lower Upper

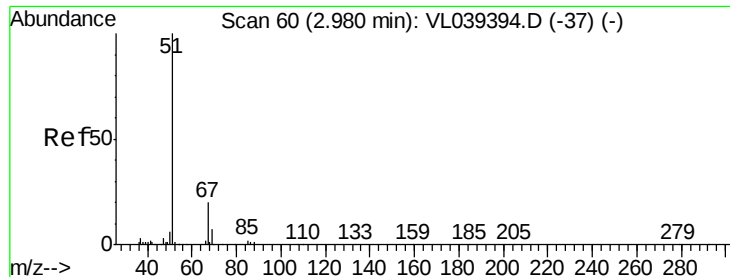
85 100

87 36.5 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: 0.475 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

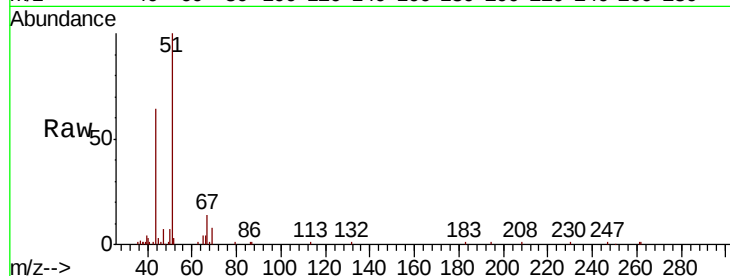
Acq: 5 Jul 2022 20:13

Tot Ion: 51 Resp: 73963

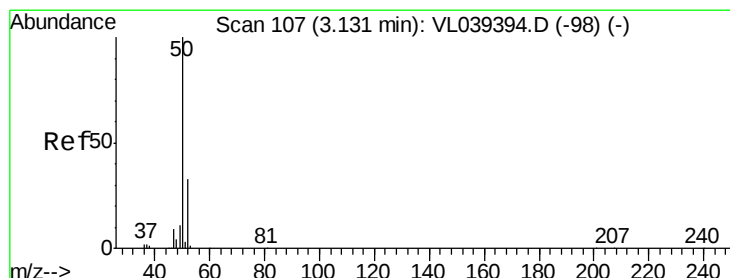
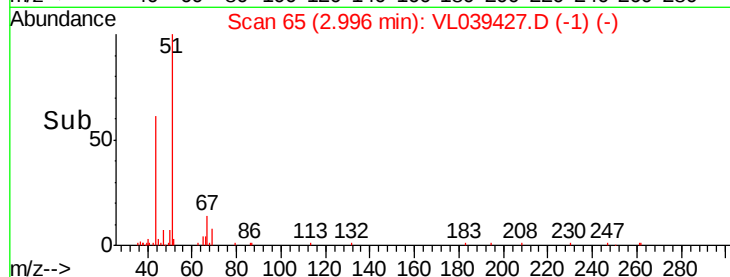
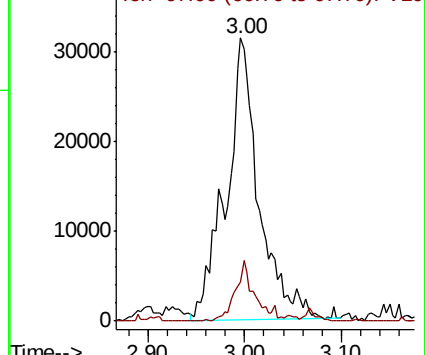
Ion Ratio Lower Upper

51 100

67 13.4 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.443 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.02 min

Lab File: VL039427.D

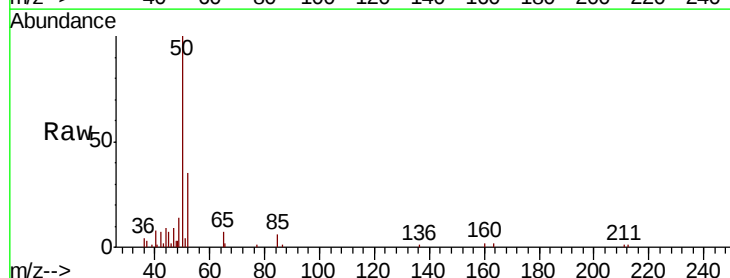
Acq: 5 Jul 2022 20:13

Tgt Ion: 50 Resp: 37707

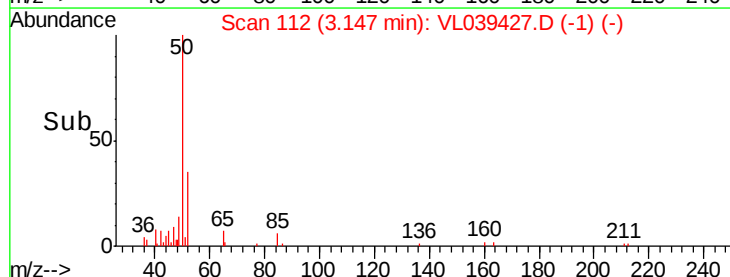
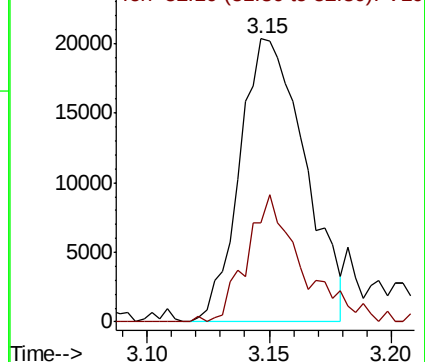
Ion Ratio Lower Upper

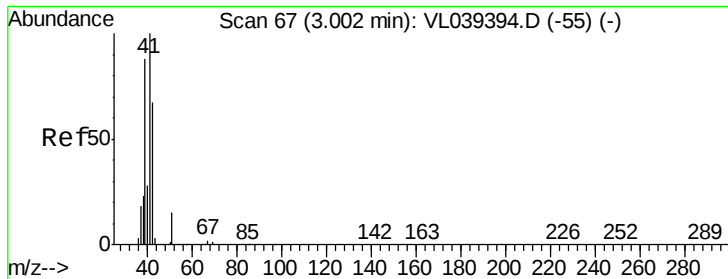
50 100

52 34.9 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.581 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

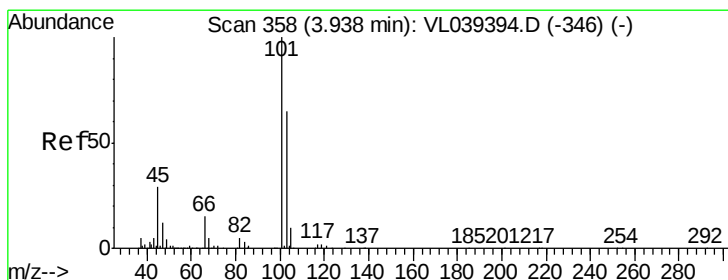
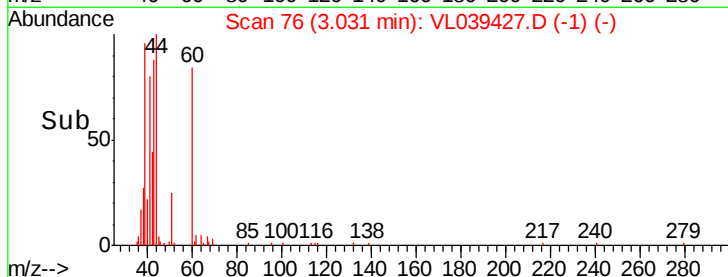
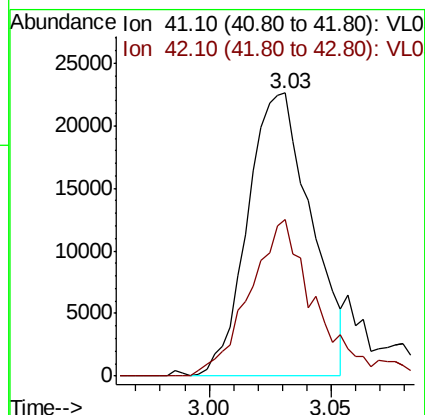
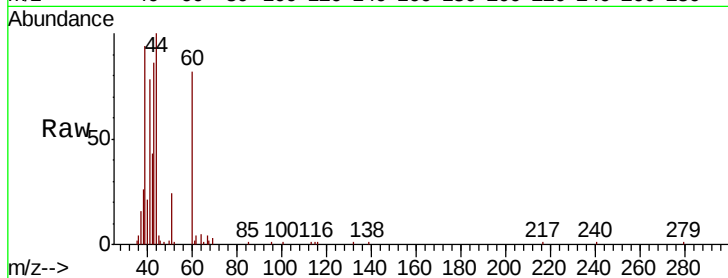
Acq: 5 Jul 2022 20:13

Tot Ion: 41 Resp: 40799

Ion Ratio Lower Upper

41 100

42 59.2 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.210 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL039427.D

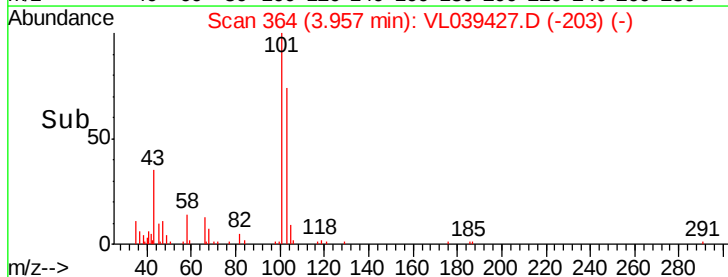
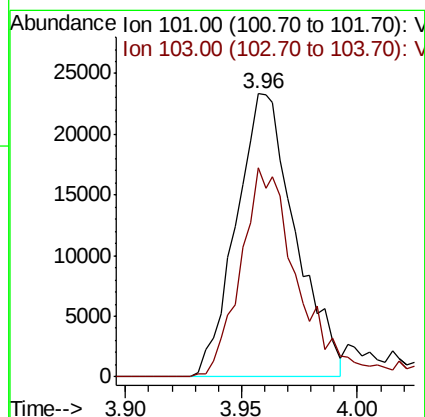
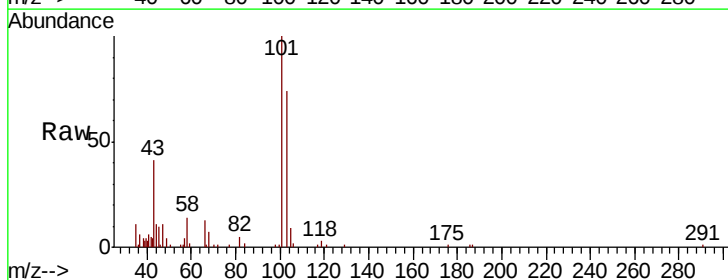
Acq: 5 Jul 2022 20:13

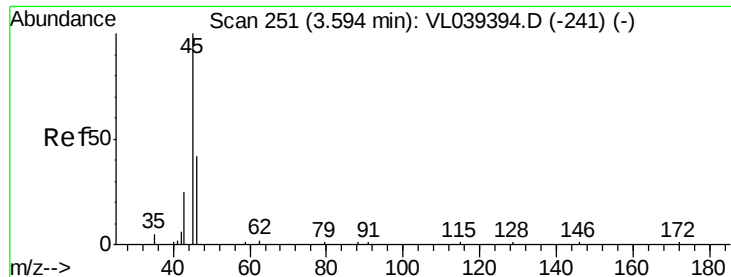
Tgt Ion: 101 Resp: 41395

Ion Ratio Lower Upper

101 100

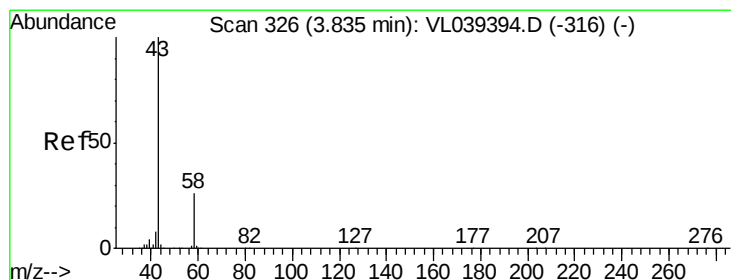
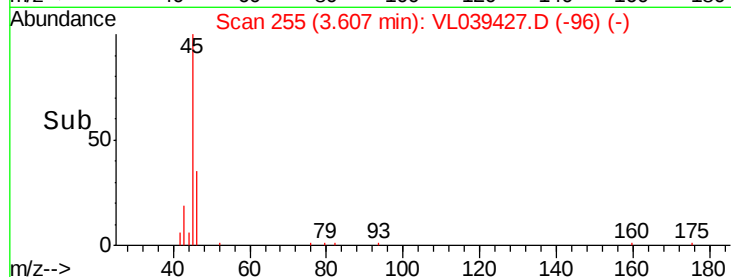
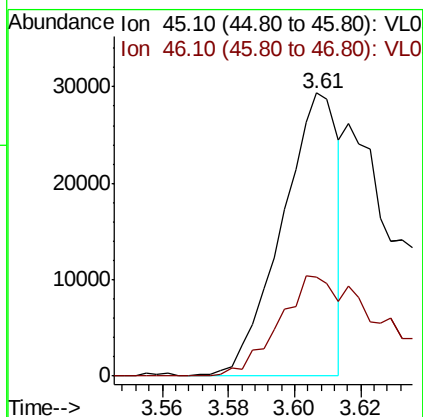
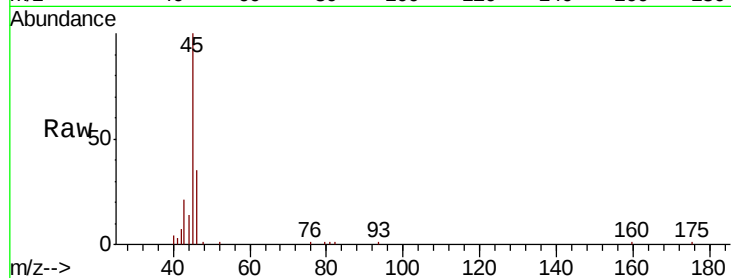
103 74.1 51.8 77.8





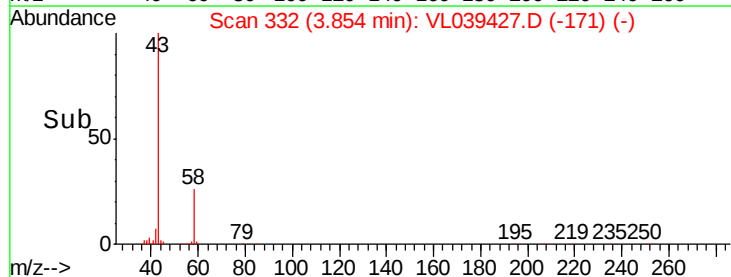
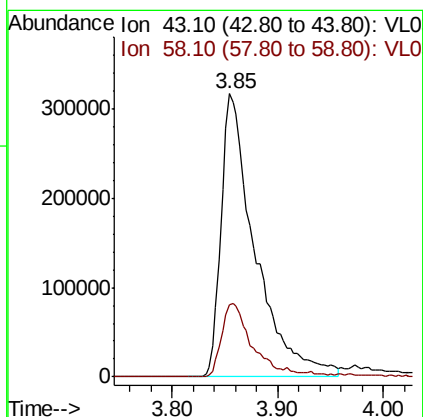
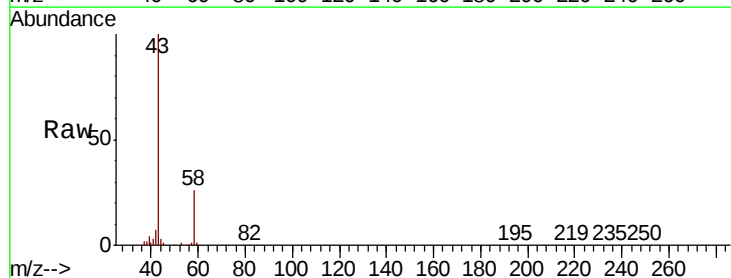
#13
Ethanol
Concen: 8.504 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 20:13

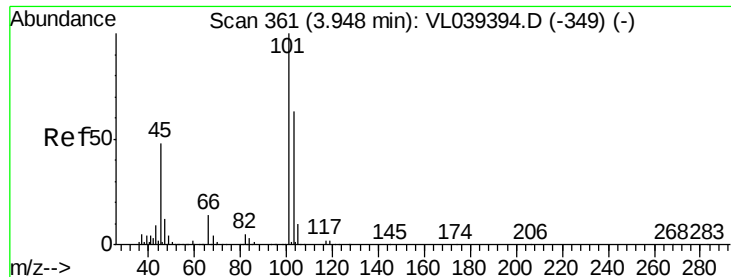
Tot Ion: 45 Resp: 34664
Ion Ratio Lower Upper
45 100
46 84.7 22.8 91.2



#15
Acetone
Concen: 4.867 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL039427.D
Acq: 5 Jul 2022 20:13

Tgt Ion: 43 Resp: 706130
Ion Ratio Lower Upper
43 100
58 24.3 21.0 31.6





#19

Isopropyl Alcohol

Concen: 0.488 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

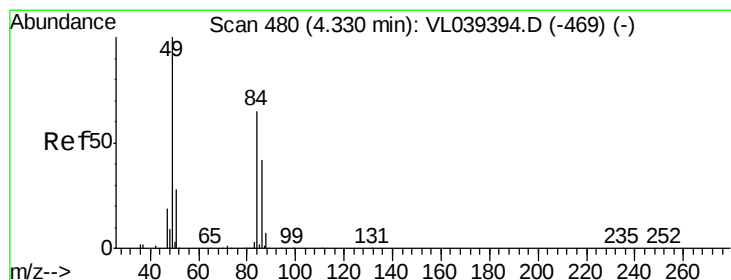
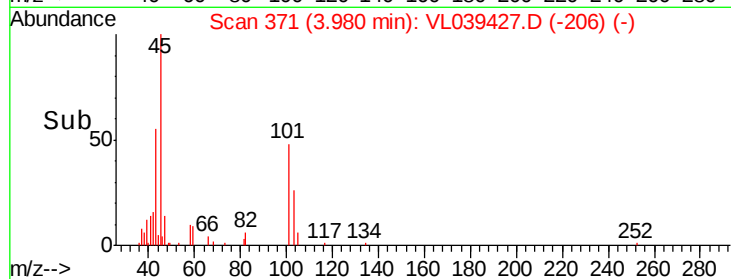
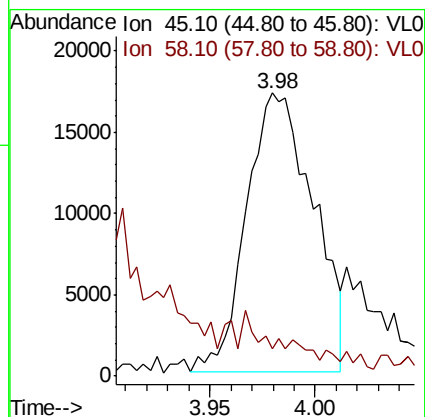
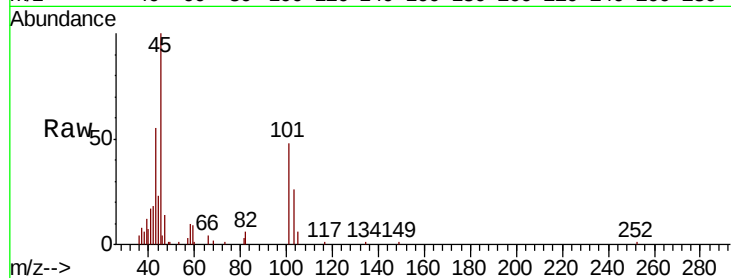
Acq: 5 Jul 2022 20:13

Tot Ion: 45 Resp: 37781

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 27.935 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL039427.D

Acq: 5 Jul 2022 20:13

Tgt Ion: 84 Resp: 1615378

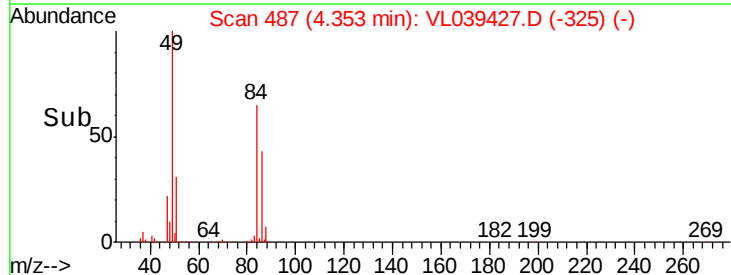
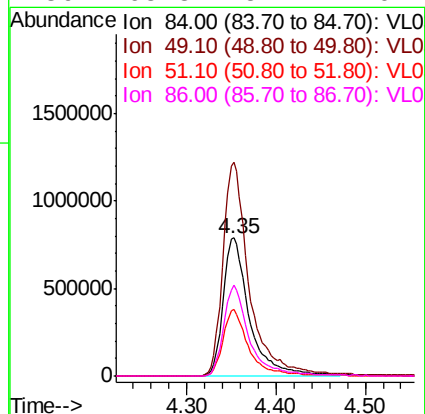
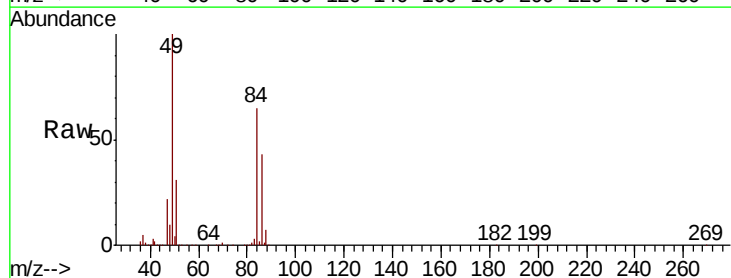
Ion Ratio Lower Upper

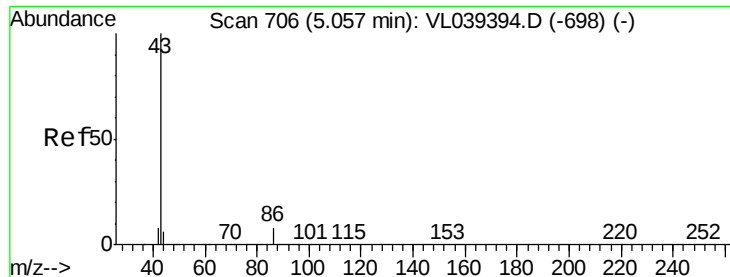
84 100

49 154.7 123.1 184.7

51 48.3 34.4 51.6

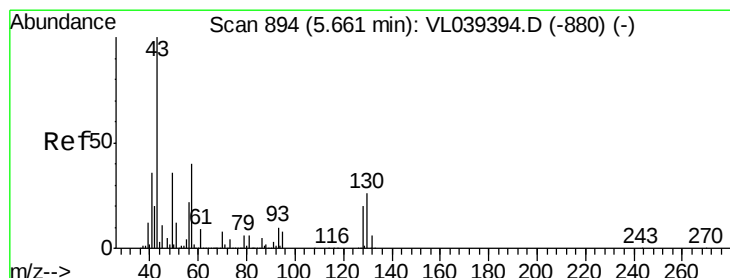
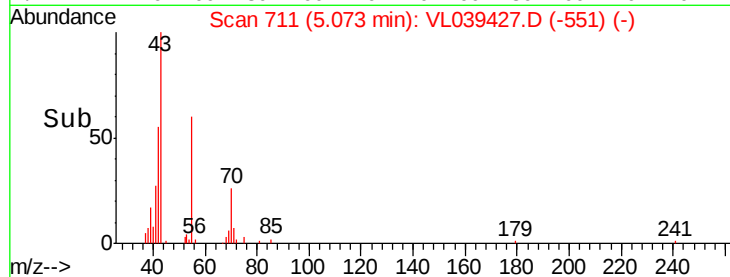
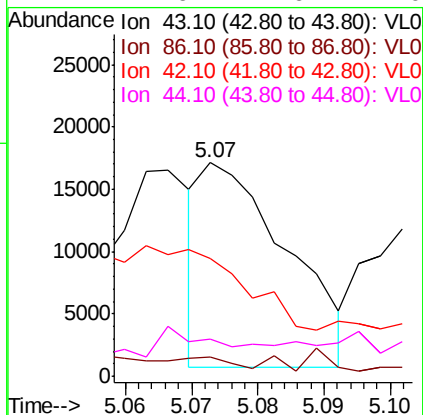
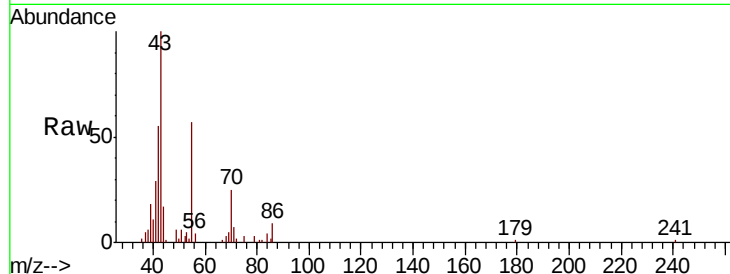
86 65.8 51.1 76.7





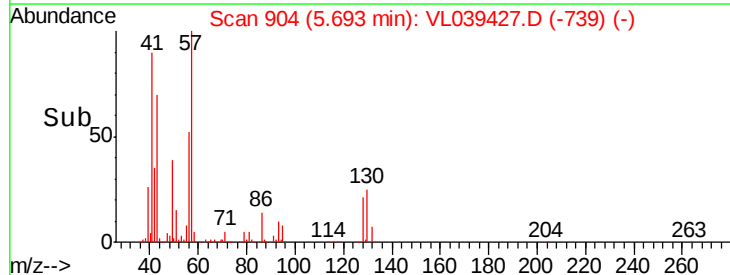
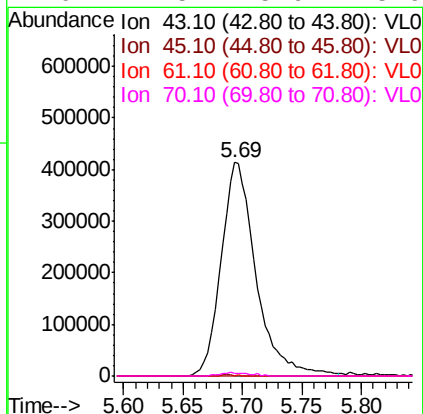
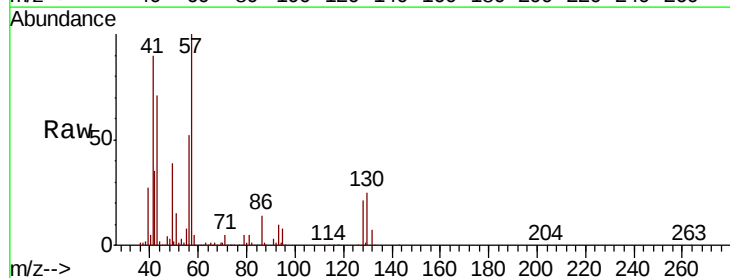
#23
 Vinyl Acetate
 Concen: 0.152 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 20:13

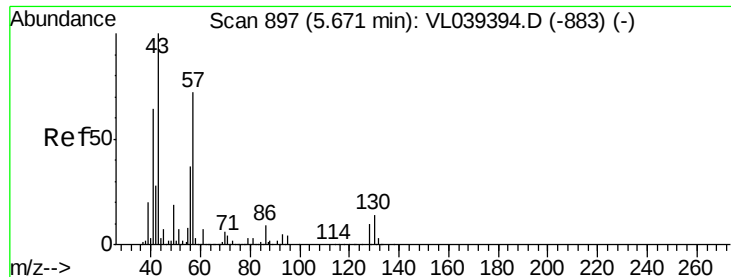
Tot Ion:	43	Resp:	14758
Ion	Ratio	Lower	Upper
43	100		
86	6.8	5.0	7.6
42	42.5	7.7	11.5#
44	2.6	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 2.807 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.03 min
 Lab File: VL039427.D
 Acq: 5 Jul 2022 20:13

Tgt Ion:	43	Resp:	835109
Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.2	12.4#
61	0.2	8.3	12.5#
70	1.5	5.9	8.9#





#26

Hexane

Concen: 9.859 ppbv

RT: 5.69 Instrument:

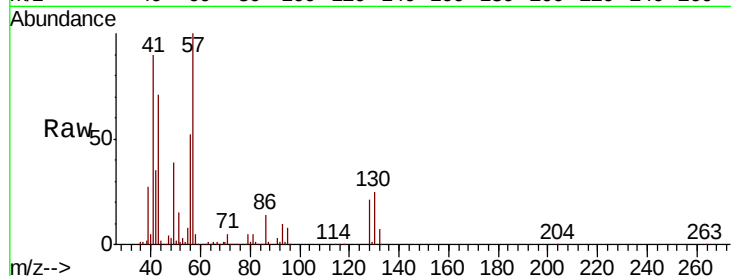
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 20:13

Tot Ion: 57 Resp: 1182253

Ion	Ratio	Lower	Upper
57	100		
41	90.5	76.9	115.3
43	71.7	191.0	286.6#
56	53.3	43.2	64.8

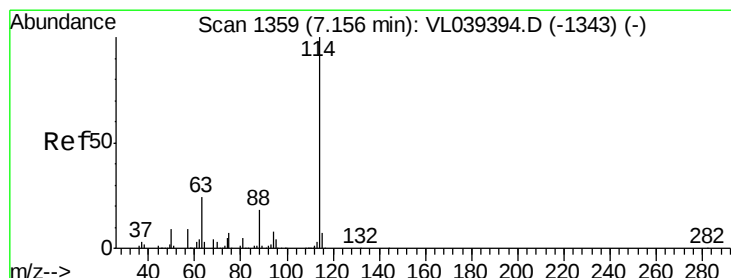
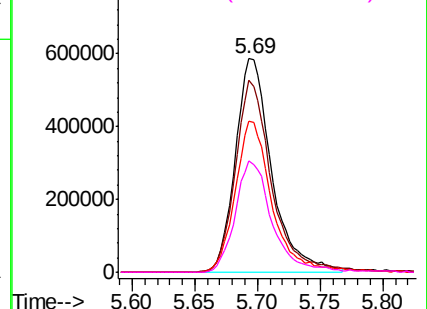
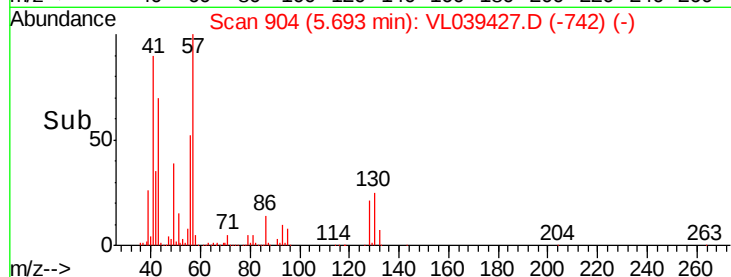


Abundance Ion 57.10 (56.80 to 57.80): VL0

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

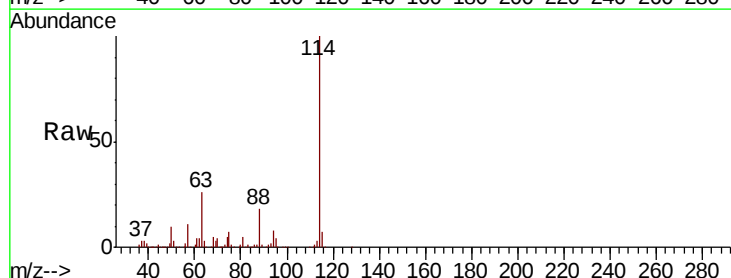
Delta R.T. 0.03 min

Lab File: VL039427.D

Acq: 5 Jul 2022 20:13

Tgt Ion: 114 Resp: 3286336

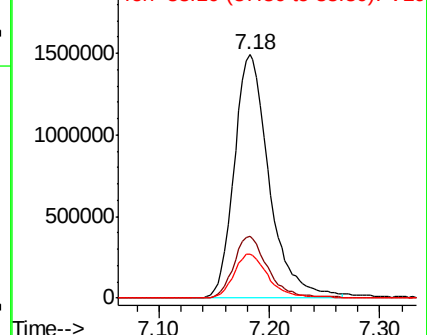
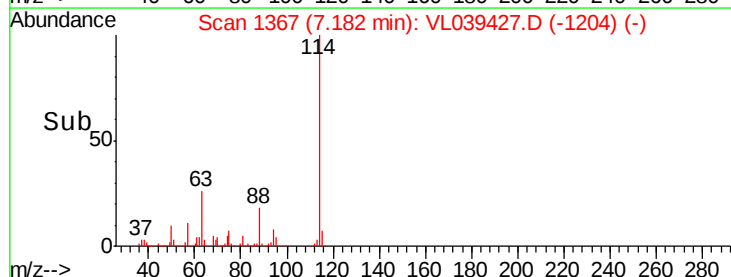
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.2	30.4
88	18.3	14.5	21.7

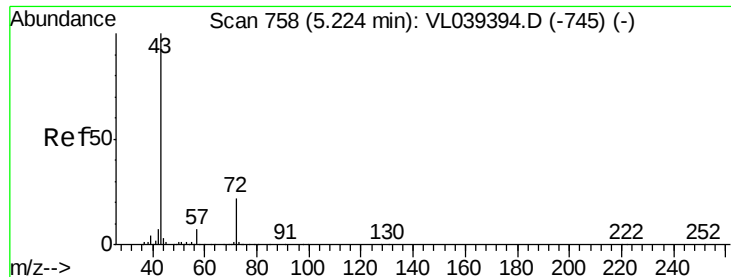


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

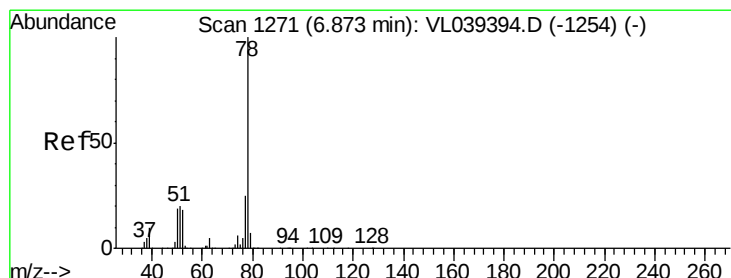
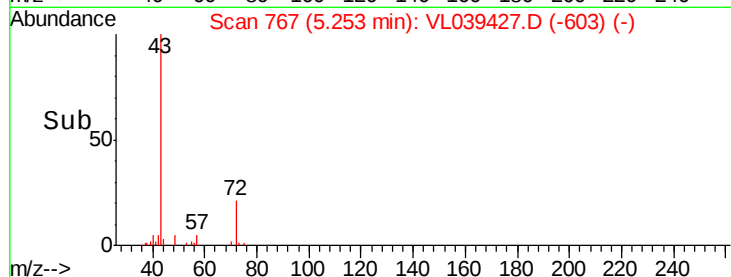
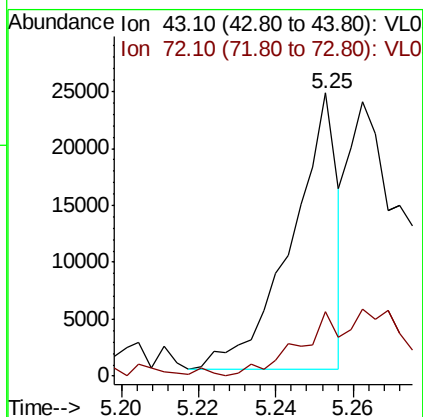
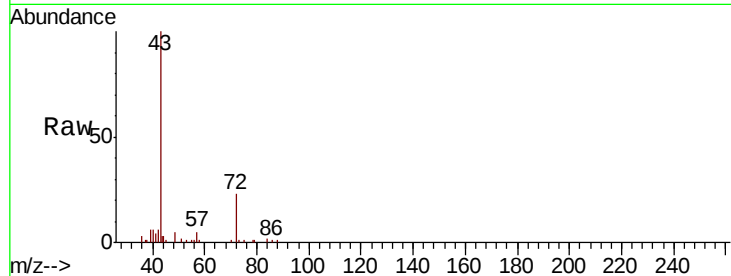
Ion 88.10 (87.80 to 88.80): VL0





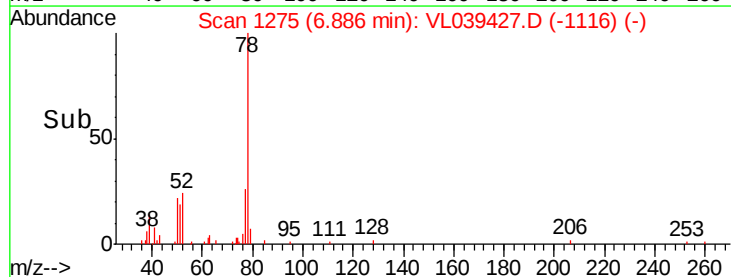
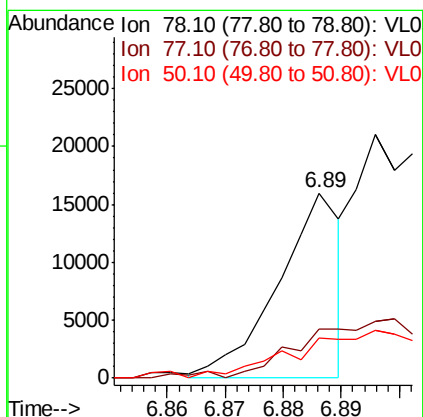
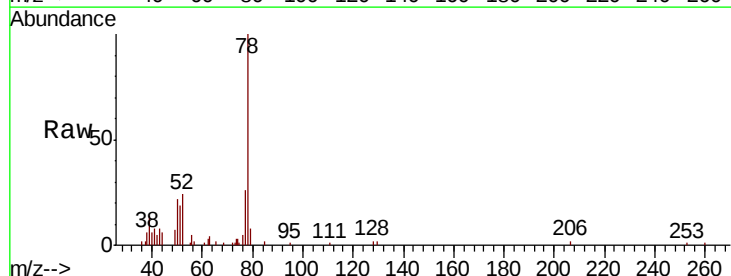
#34
 2-Butanone
 Concen: 0.121 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 20:13

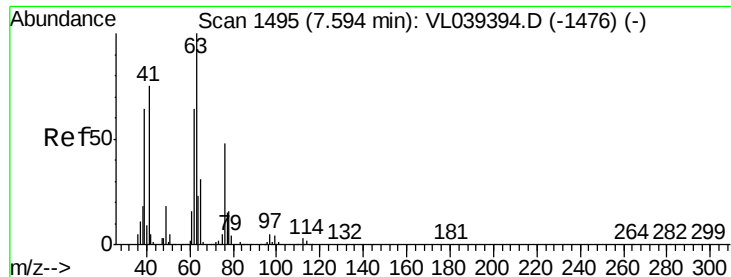
Tot Ion: 43 Resp: 19956
 Ion Ratio Lower Upper
 43 100
 72 63.8 17.9 26.9#



#36
 Benzene
 Concen: 0.047 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. 0.01 min
 Lab File: VL039427.D
 Acq: 5 Jul 2022 20:13

Tgt Ion: 78 Resp: 12017
 Ion Ratio Lower Upper
 78 100
 77 25.5 20.3 30.5
 50 22.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.396 ppbv

RT: 7.18 Instrument:

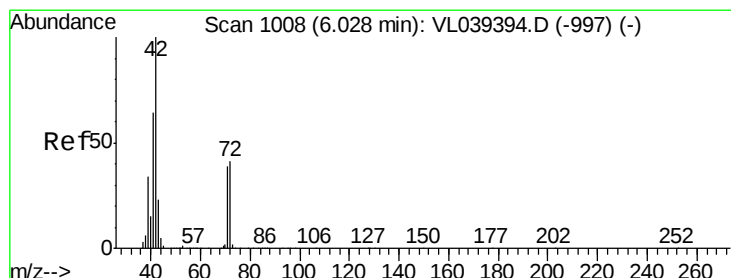
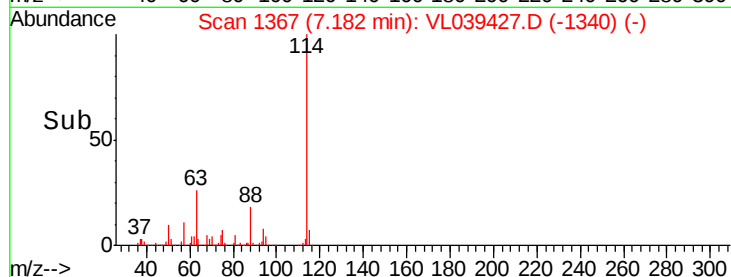
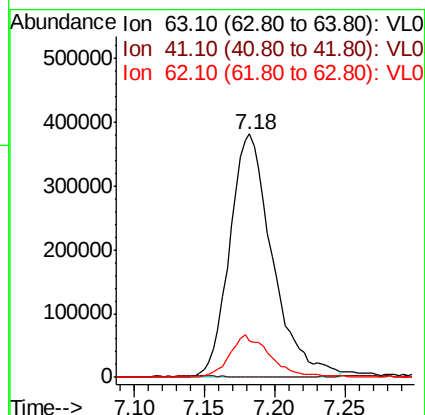
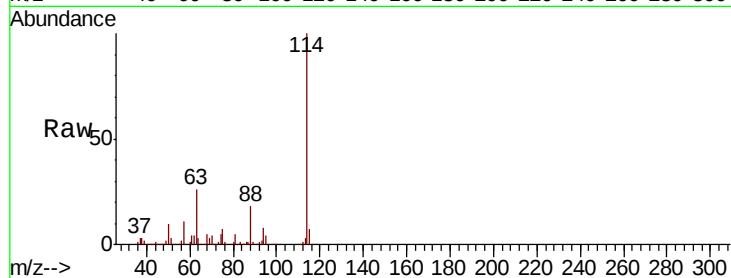
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 20:13

Tot Ion: 63 Resp: 797773

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	14.7	51.4	77.0#



#41

Tetrahydrofuran

Concen: 4.444 ppbv

RT: 5.69 min Scan# 904

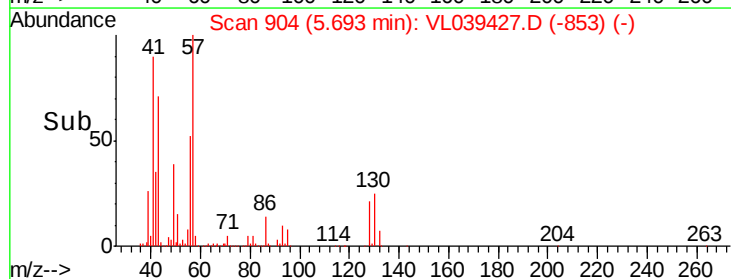
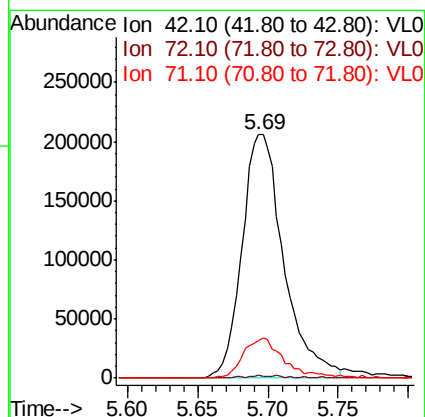
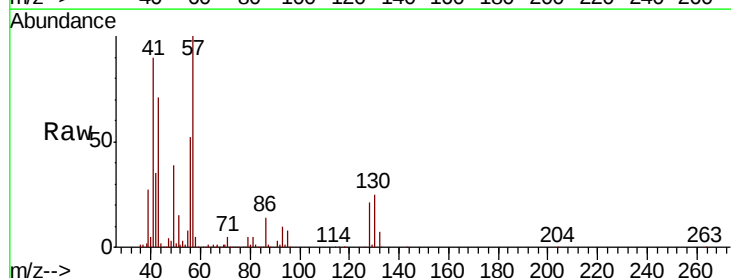
Delta R.T. -0.33 min

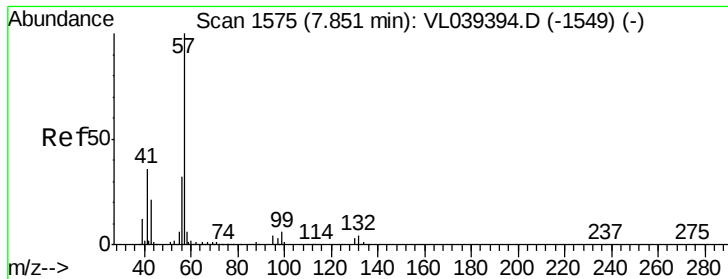
Lab File: VL039427.D

Acq: 5 Jul 2022 20:13

Tgt Ion: 42 Resp: 426051

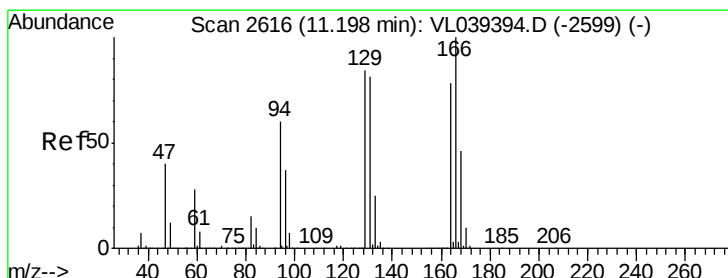
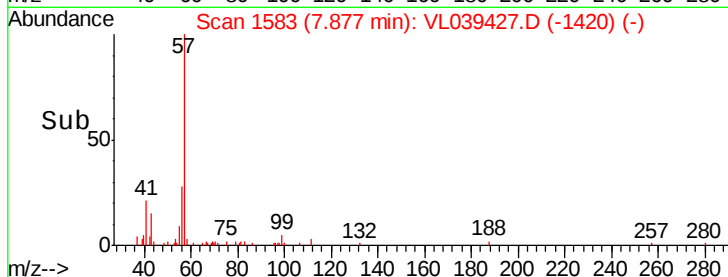
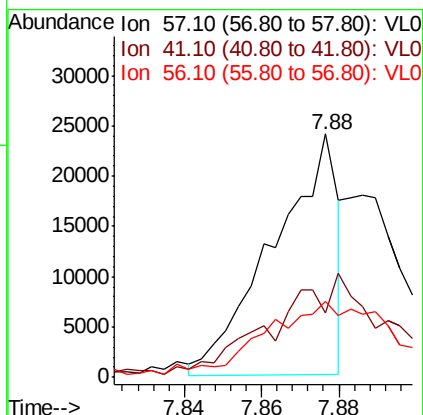
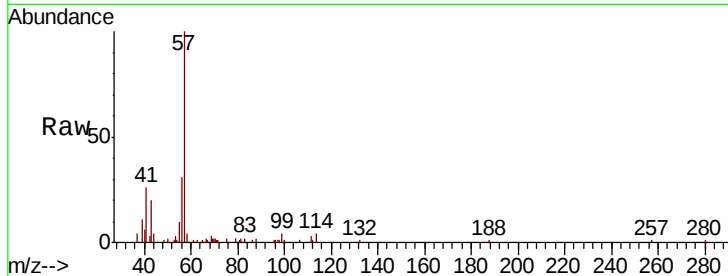
Ion	Ratio	Lower	Upper
42	100		
72	1.2	31.8	47.8#
71	16.6	31.8	47.8#





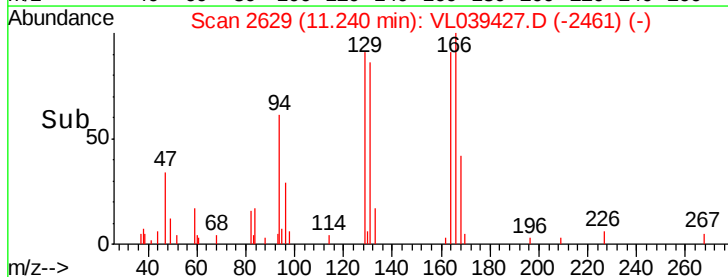
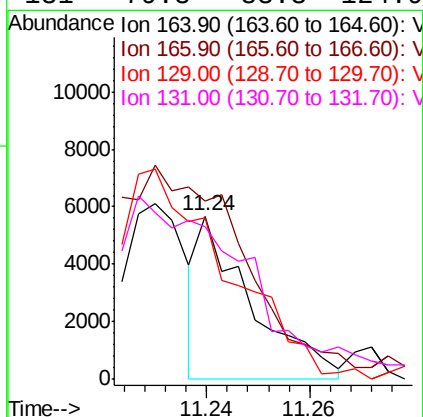
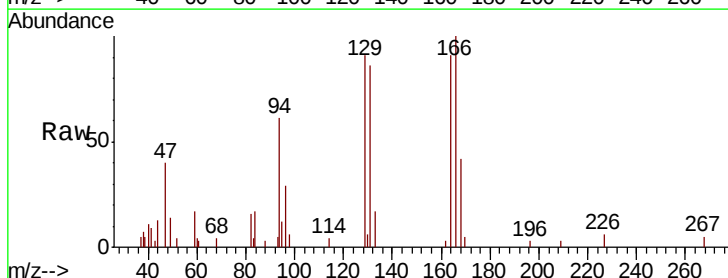
#44
2,2,4-Trimethylpentane
Concen: 0.064 ppbv
RT: 7.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 20:13

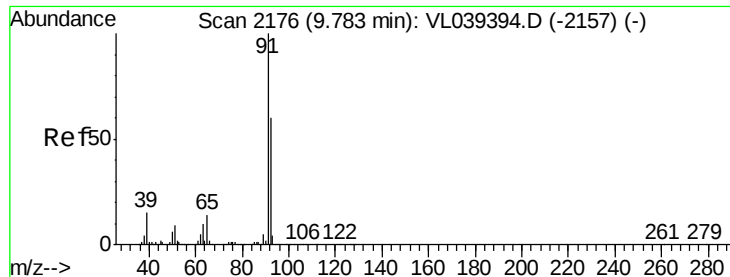
Tot Ion	57	Resp	27635
Ion Ratio	100		
Lower	27.4		
Upper	41.2#		
56	74.8	24.5	36.7#



#52
Tetrachloroethene
Concen: 0.040 ppbv
RT: 11.24 min Scan# 2629
Delta R.T. 0.04 min
Lab File: VL039427.D
Acq: 5 Jul 2022 20:13

Tgt Ion	164	Resp	4055
Ion Ratio	100		
Lower	102.2		
Upper	153.2#		
166	100.5	85.8	128.8
129	108.6	83.3	124.9#
131	79.8		





#53

Toluene

Concen: 0.360 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

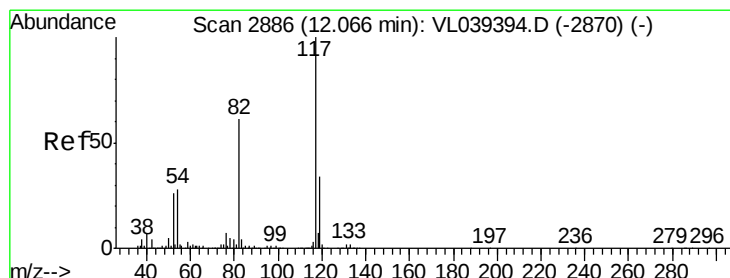
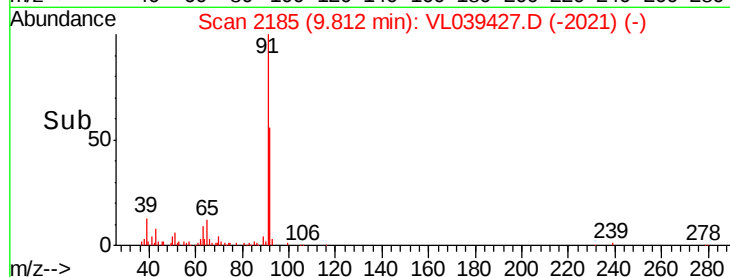
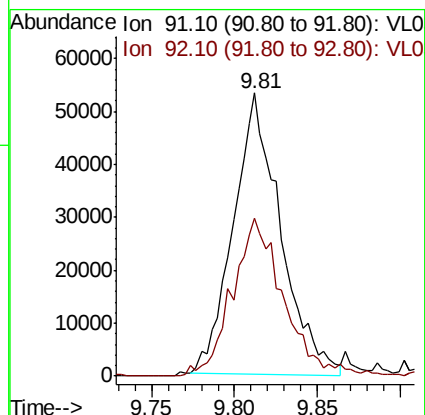
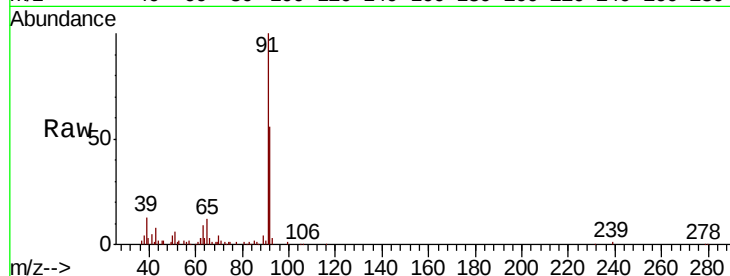
Acq: 5 Jul 2022 20:13

Tot Ion: 91 Resp: 105690

Ion Ratio Lower Upper

91 100

92 60.8 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: VL039427.D

Acq: 5 Jul 2022 20:13

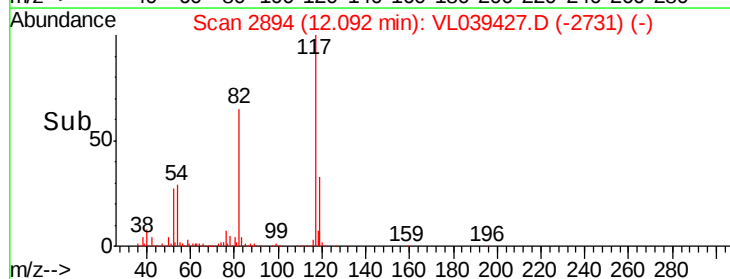
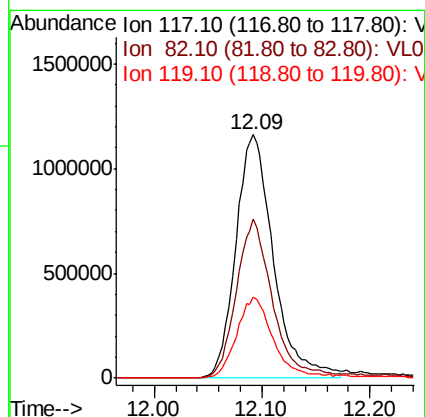
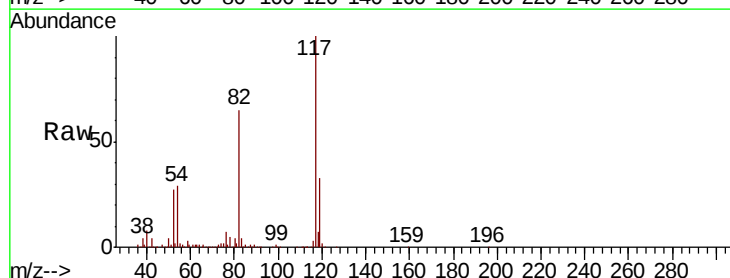
Tgt Ion: 117 Resp: 2827161

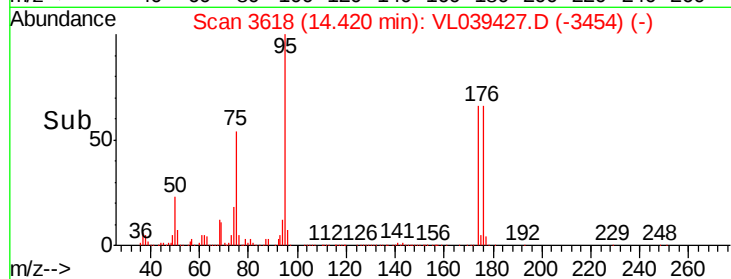
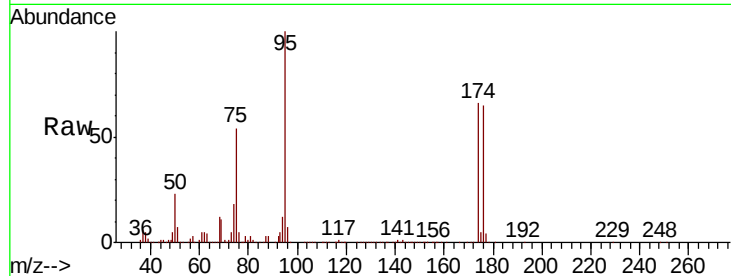
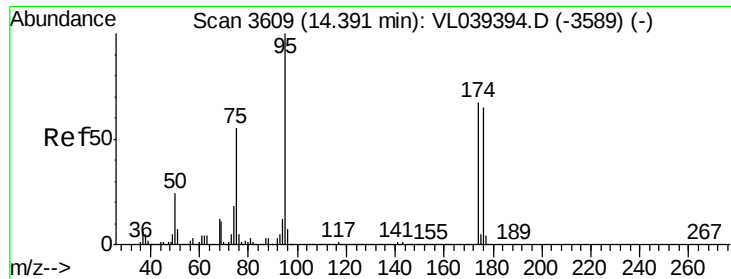
Ion Ratio Lower Upper

117 100

82 66.3 50.8 76.2

119 32.8 24.1 36.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.112 ppbv

RT: 14.42

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

IA1DUP

Acq: 5 Jul 2022 20:13

Tot Ion: 95 Resp: 2120744

Ion Ratio Lower Upper

95 100

174 71.3 55.9 83.9

175 5.1 4.2 6.4

