

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062922\
 Data File : VL039410.D
 Acq On : 30 Jun 2022 00:25
 Operator : SY/AP
 Sample : N3530-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Jun 30 05:44:22 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jun 30 05:40:11 2022
 QLast Update : Thu Jun 30 05:40:11 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1181936	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3409185	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2955599	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2250740	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

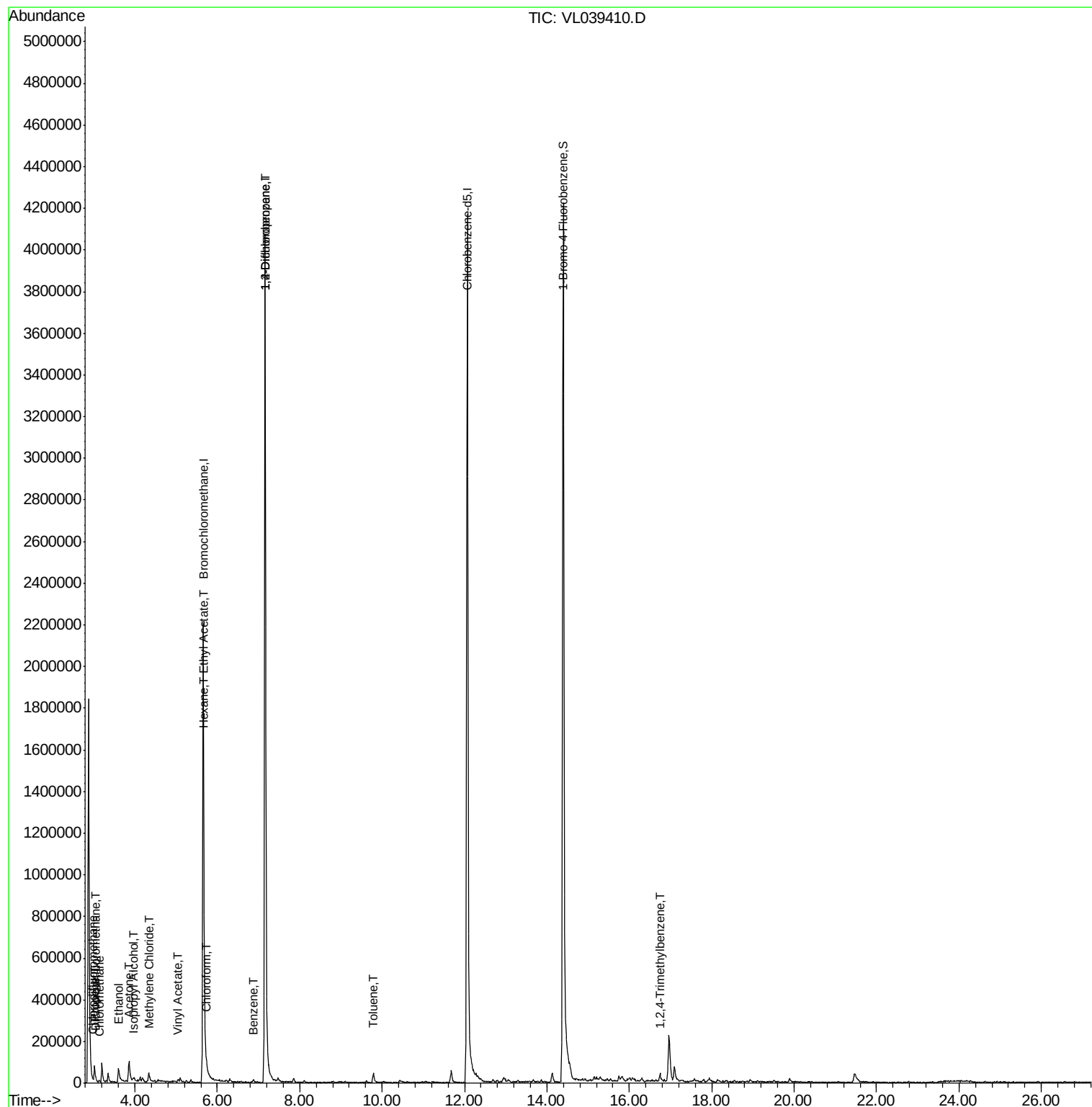
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	7786	0.05	ppbv #	60
3) Chlorodifluoromethane	2.99	51	11707	0.08	ppbv #	85
4) Chloromethane	3.13	50	1647	0.02	ppbv #	53
9) Propene	3.02	41	20970	0.31	ppbv #	74
13) Ethanol	3.61	45	68212	17.36	ppbv	97
15) Acetone	3.85	43	51298	0.37	ppbv #	33
19) Isopropyl Alcohol	3.95	45	2425	0.03	ppbv #	88
20) Methylene Chloride	4.33	84	14800	0.27	ppbv	88
23) Vinyl Acetate	5.05	43	6130	0.07	ppbv #	69
25) Ethyl Acetate	5.67	43	9386	0.03	ppbv #	84
26) Hexane	5.68	57	3508	0.03	ppbv #	1
29) Chloroform	5.74	83	4122	0.02	ppbv	91
36) Benzene	6.88	78	6610	0.03	ppbv #	84
39) 1,2-Dichloropropane	7.16	63	855044	8.67	ppbv #	25
53) Toluene	9.79	91	28847	0.09	ppbv	91
74) 1,2,4-Trimethylbenzene	16.74	105	8355	0.02	ppbv #	71

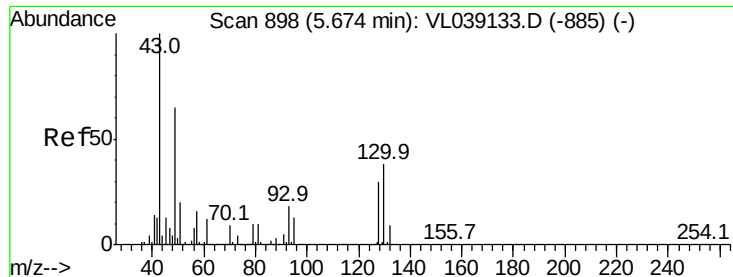
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

Acq: 30 Jun 2022 00:25

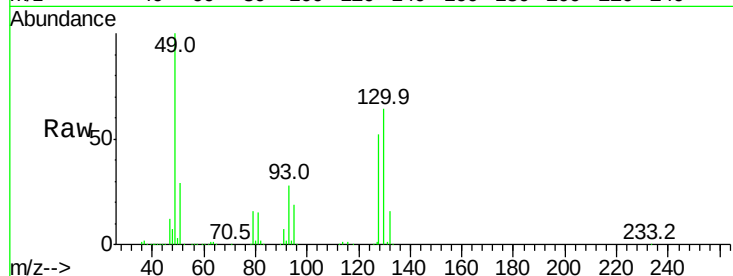
Tgt Ion: 49 Resp: 1181936

Ion Ratio Lower Upper

49 100

128 56.1 26.7 80.0

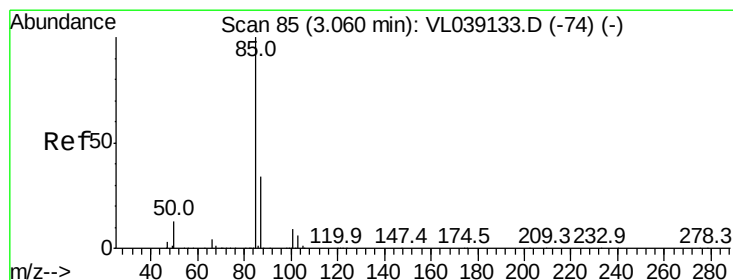
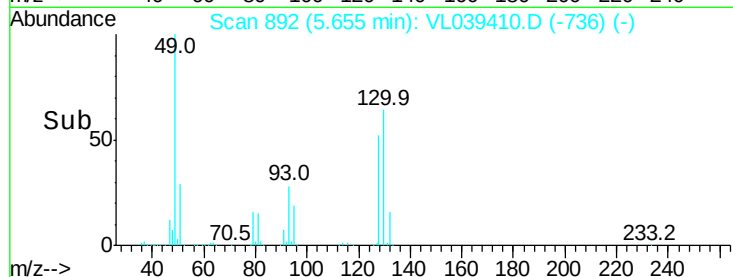
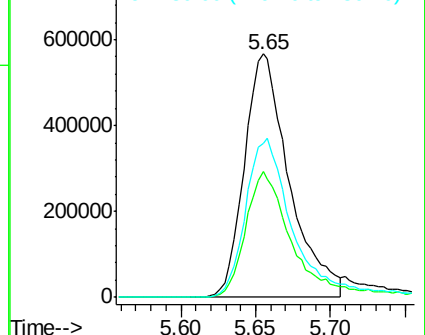
130 71.7 34.3 102.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL039410.D

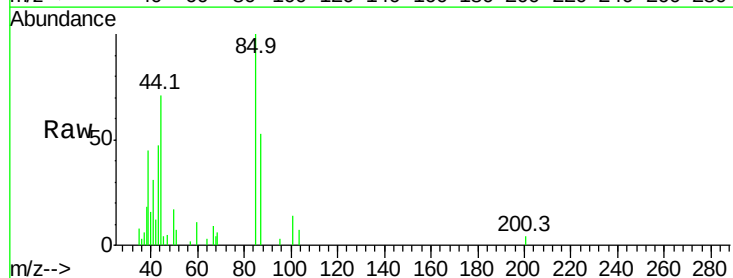
Acq: 30 Jun 2022 00:25

Tgt Ion: 85 Resp: 7786

Ion Ratio Lower Upper

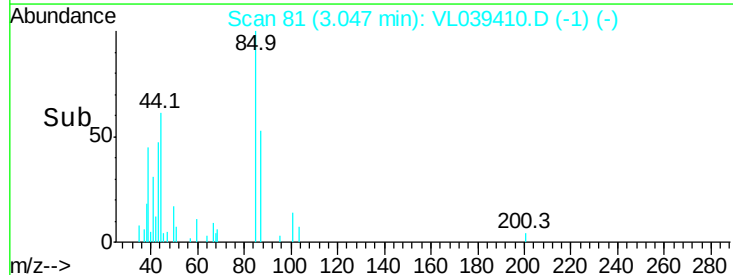
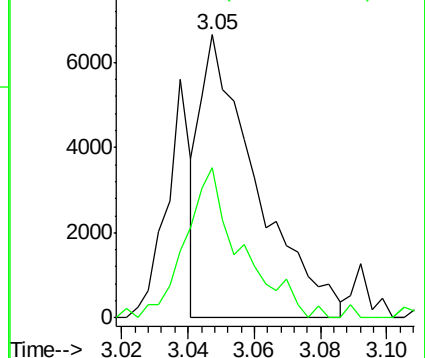
85 100

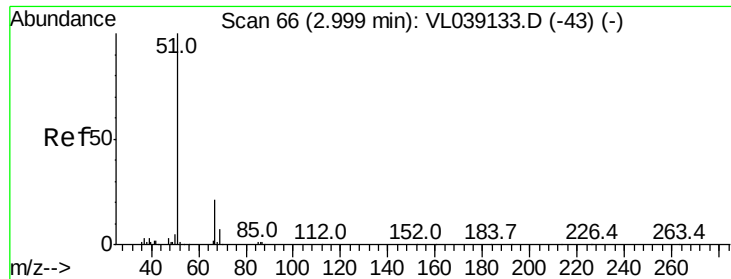
87 56.3 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.08 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

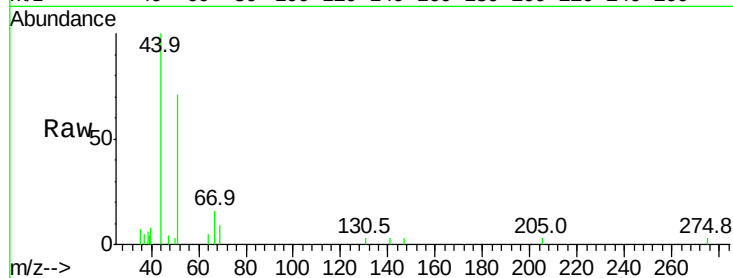
Acq: 30 Jun 2022 00:25

Tgt Ion: 51 Resp: 11707

Ion Ratio Lower Upper

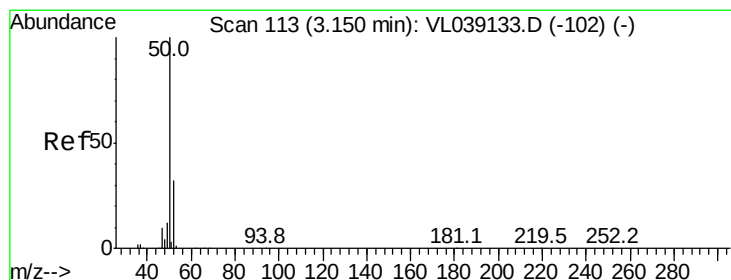
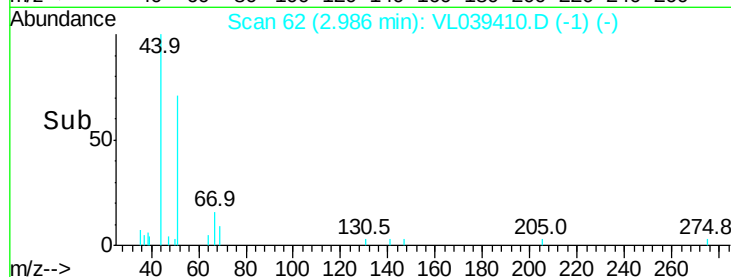
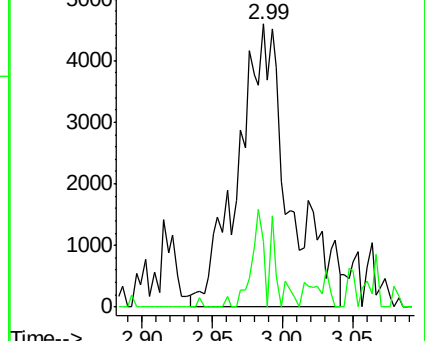
51 100

67 12.6 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: 0.02 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL039410.D

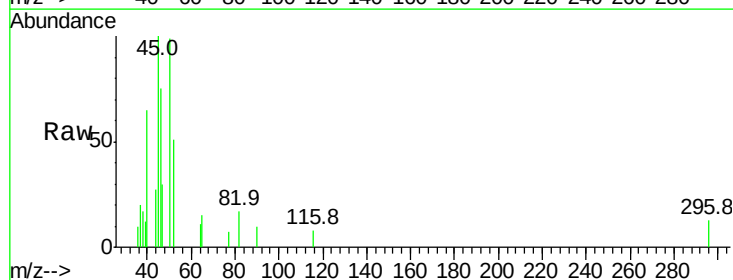
Acq: 30 Jun 2022 00:25

Tgt Ion: 50 Resp: 1647

Ion Ratio Lower Upper

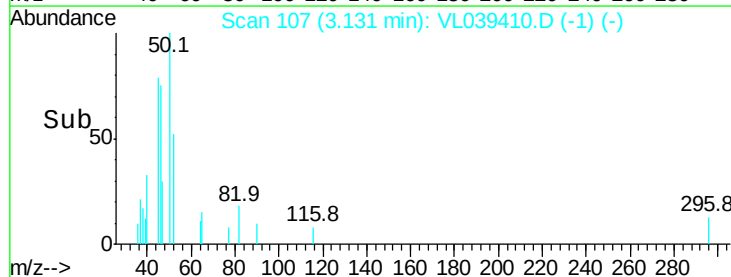
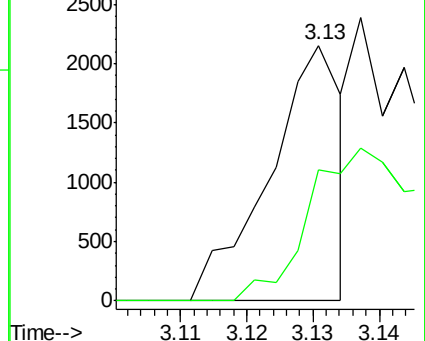
50 100

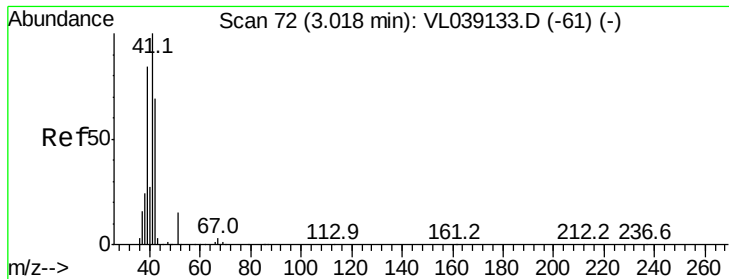
52 59.7 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.31 ppbv

RT: 3.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

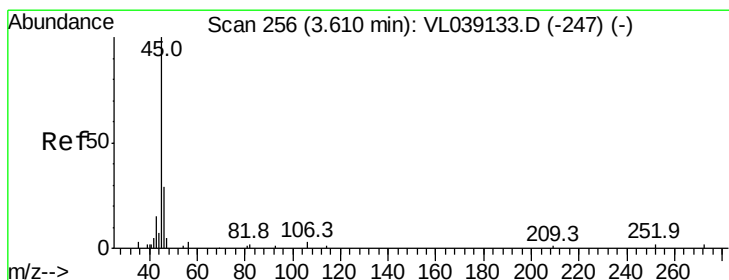
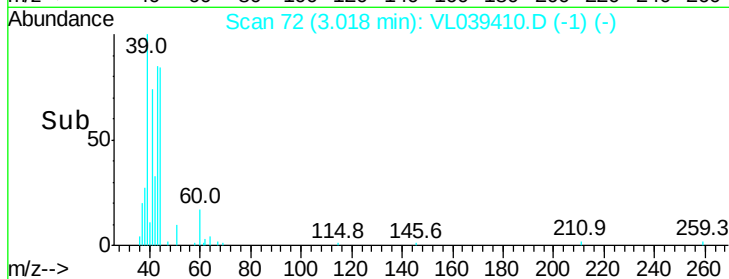
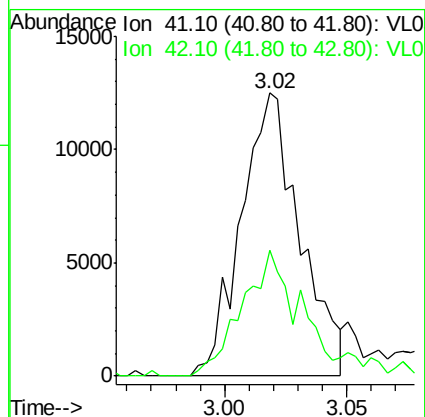
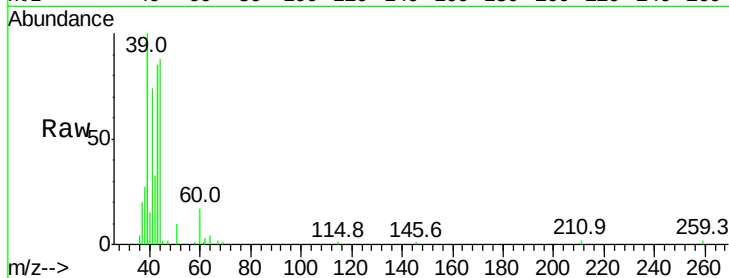
Acq: 30 Jun 2022 00:25

Tgt Ion: 41 Resp: 20970

Ion Ratio Lower Upper

41 100

42 48.2 55.2 82.8#



#13

Ethanol

Concen: 17.36 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL039410.D

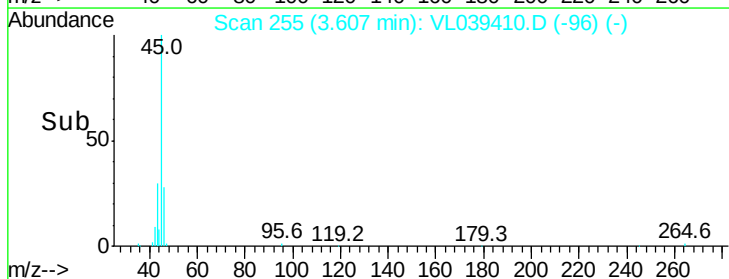
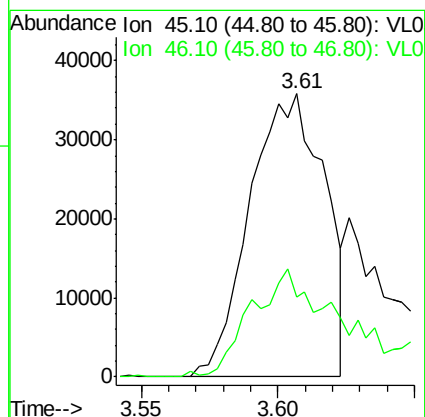
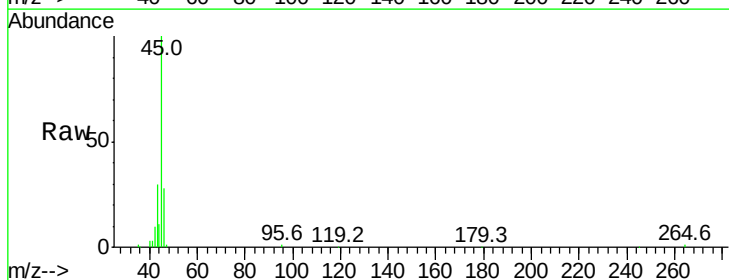
Acq: 30 Jun 2022 00:25

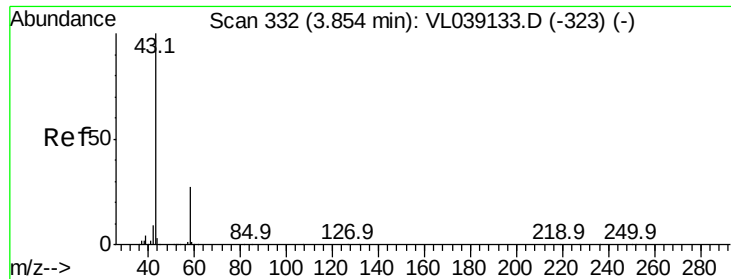
Tgt Ion: 45 Resp: 68212

Ion Ratio Lower Upper

45 100

46 59.2 22.8 91.2





#15

Acetone

Concen: 0.37 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

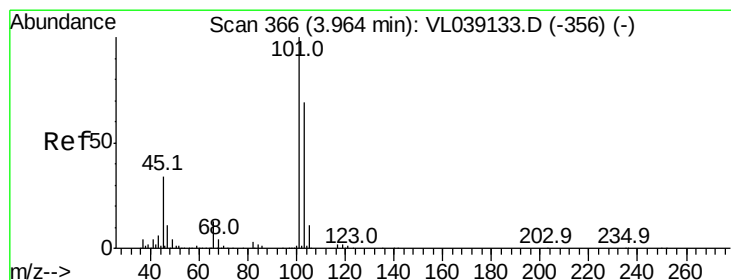
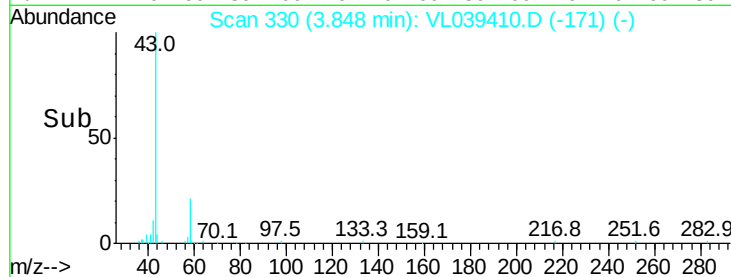
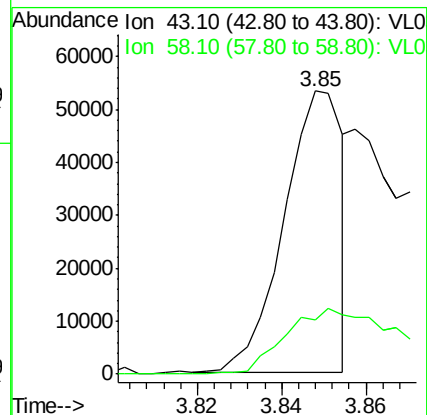
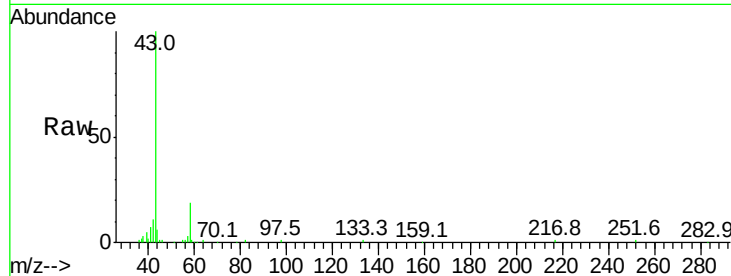
Acq: 30 Jun 2022 00:25

Tgt Ion: 43 Resp: 51298

Ion Ratio Lower Upper

43 100

58 60.8 21.0 31.6#



#19

Isopropyl Alcohol

Concen: 0.03 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL039410.D

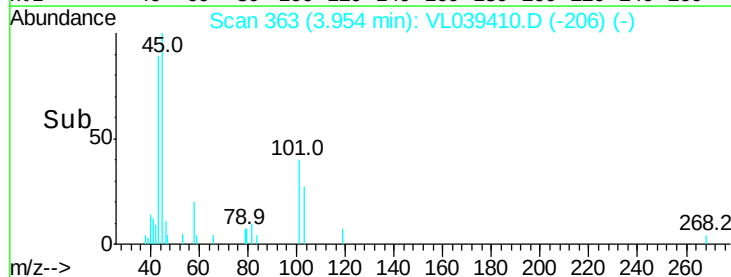
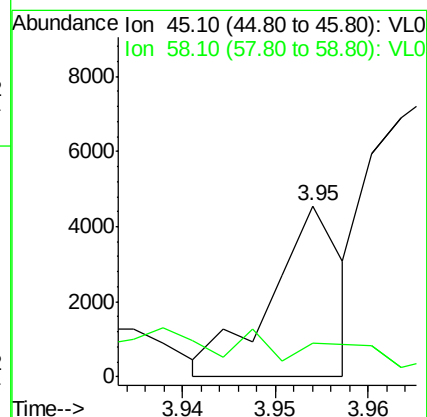
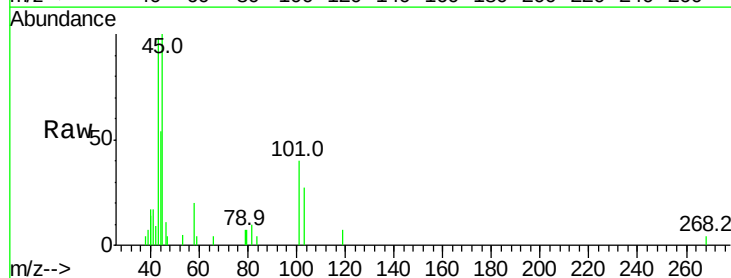
Acq: 30 Jun 2022 00:25

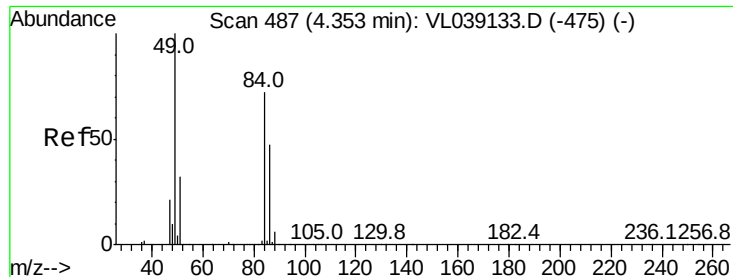
Tgt Ion: 45 Resp: 2425

Ion Ratio Lower Upper

45 100

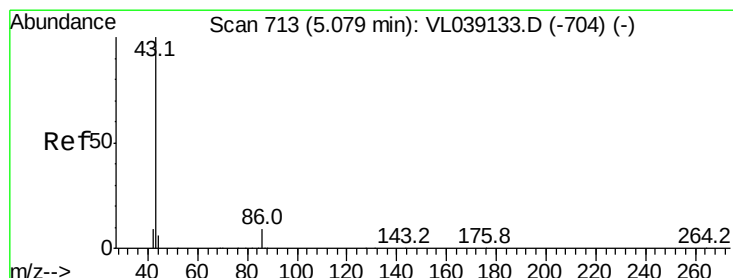
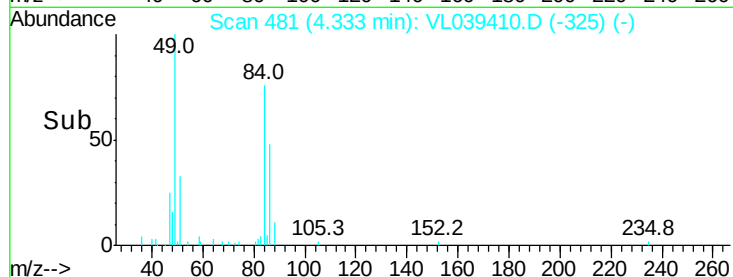
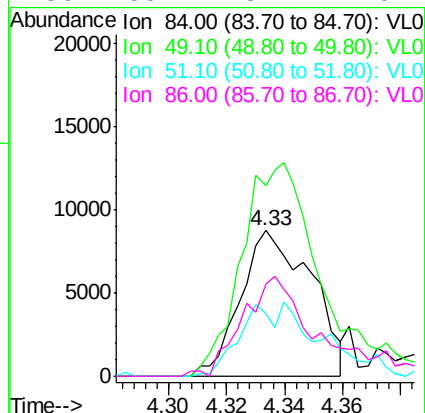
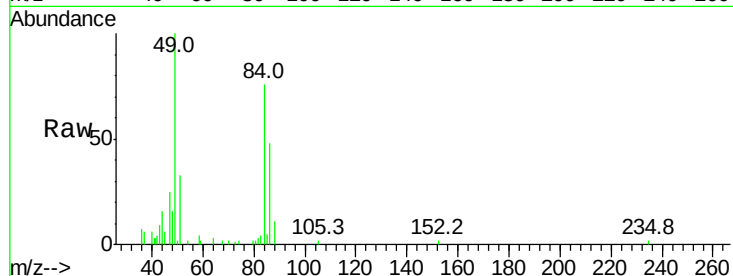
58 0.0 3.2 4.8#





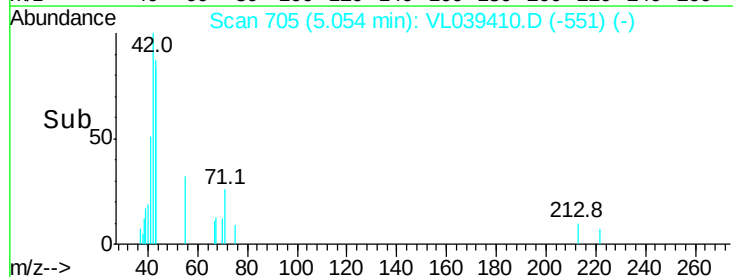
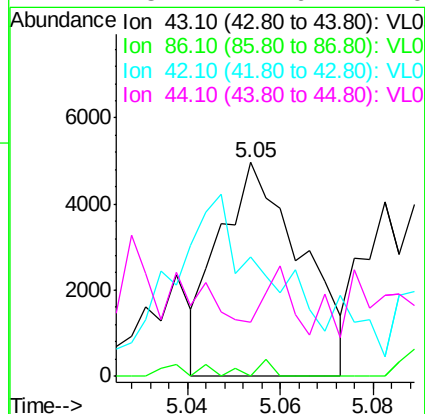
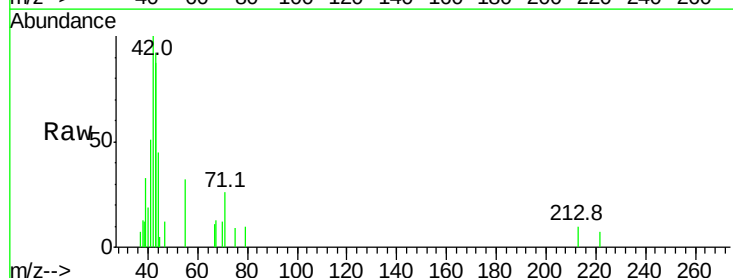
#20
Methylene Chloride
Concen: 0.27 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Jun 2022 00:25

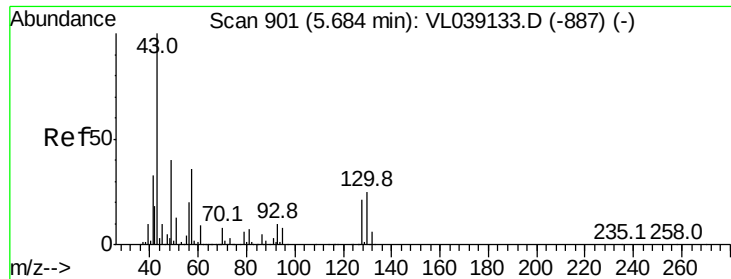
Tgt Ion:	84	Resp:	14800
Ion	Ratio	Lower	Upper
84	100		
49	131.2	123.1	184.7
51	42.9	34.4	51.6
86	59.2	51.1	76.7



#23
Vinyl Acetate
Concen: 0.07 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.00 min
Lab File: VL039410.D
Acq: 30 Jun 2022 00:25

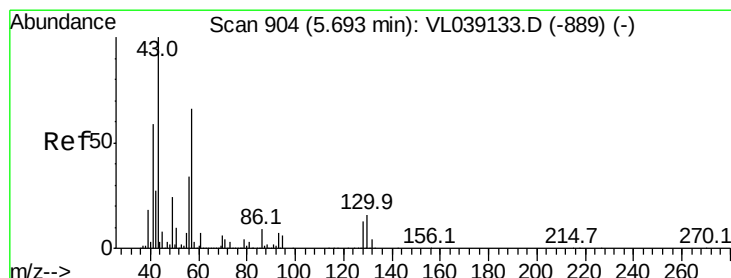
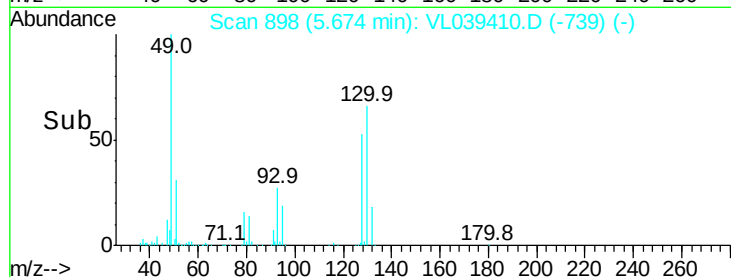
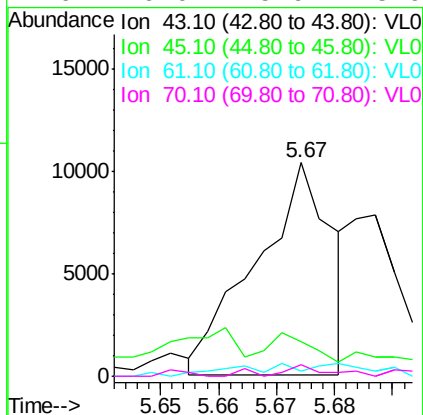
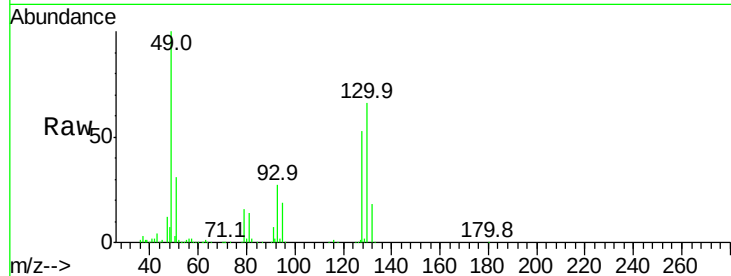
Tgt Ion:	43	Resp:	6130
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	25.4	7.7	11.5#
44	13.7	4.6	7.0#





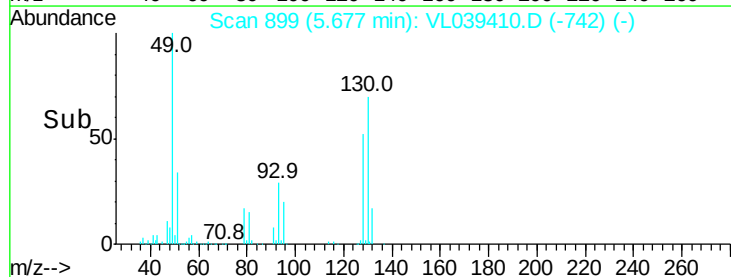
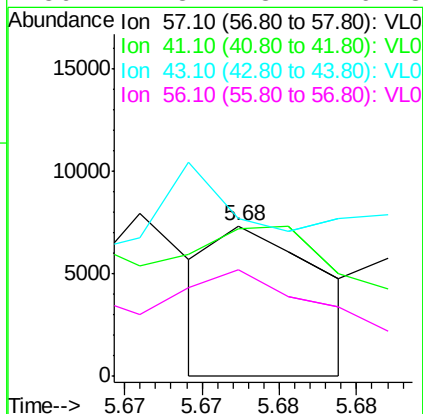
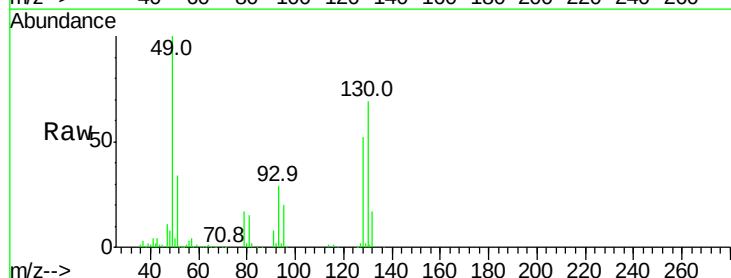
#25
Ethyl Acetate
Concen: 0.03 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Jun 2022 00:25

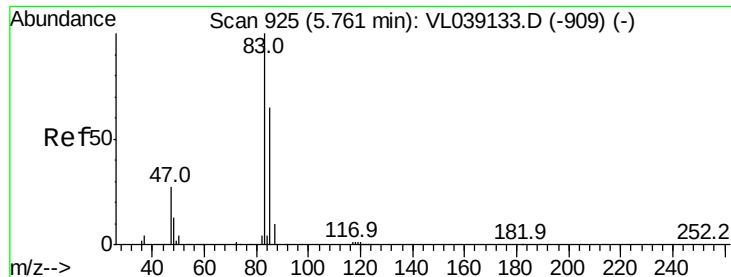
Tgt Ion:	43	Resp:	9386
Ion Ratio	Lower	Upper	
43	100		
45	0.0	8.2	12.4#
61	10.5	8.3	12.5
70	0.0	5.9	8.9#



#26
Hexane
Concen: 0.03 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL039410.D
Acq: 30 Jun 2022 00:25

Tgt Ion:	57	Resp:	3508
Ion Ratio	Lower	Upper	
57	100		
41	461.0	76.9	115.3#
43	508.9	191.0	286.6#
56	241.3	43.2	64.8#





#29

Chloroform

Concen: 0.02 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

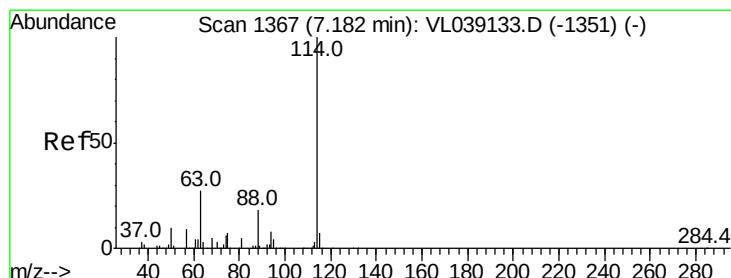
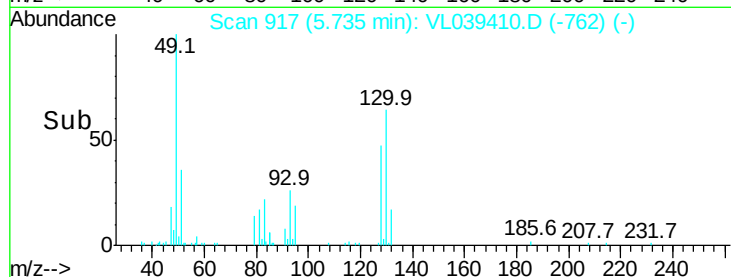
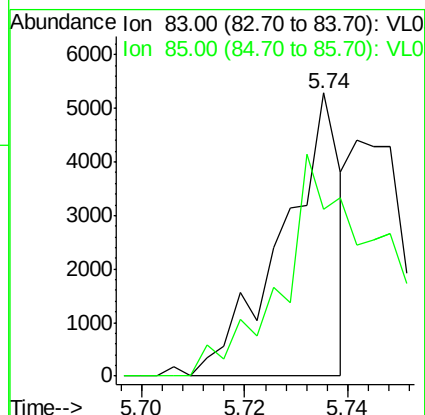
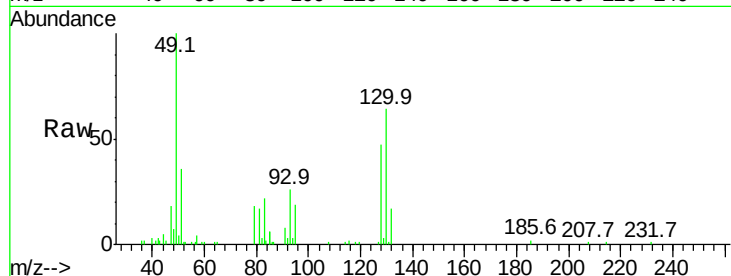
Acq: 30 Jun 2022 00:25

Tgt Ion: 83 Resp: 4122

Ion Ratio Lower Upper

83 100

85 58.9 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VL039410.D

Acq: 30 Jun 2022 00:25

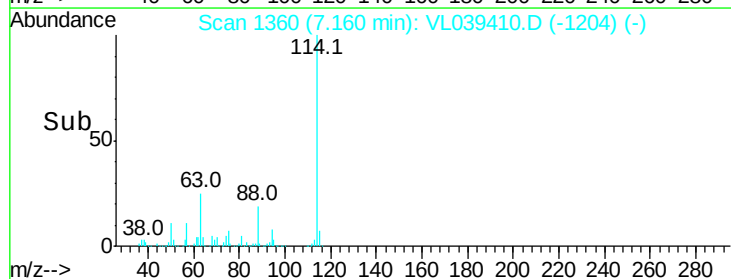
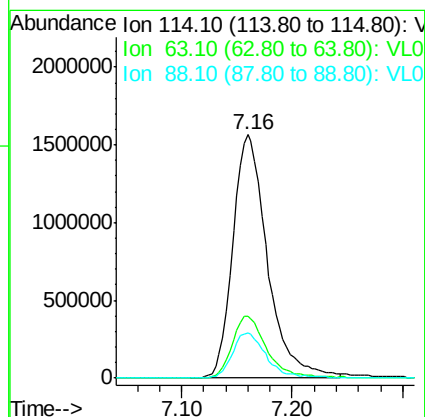
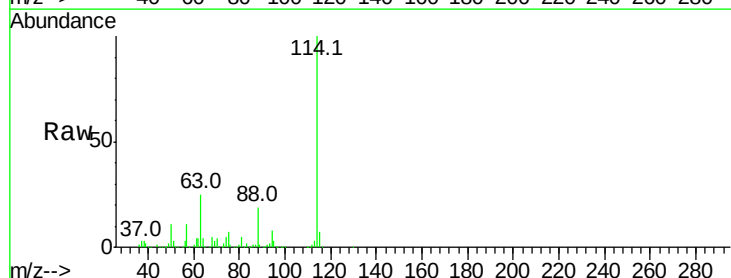
Tgt Ion: 114 Resp: 3409185

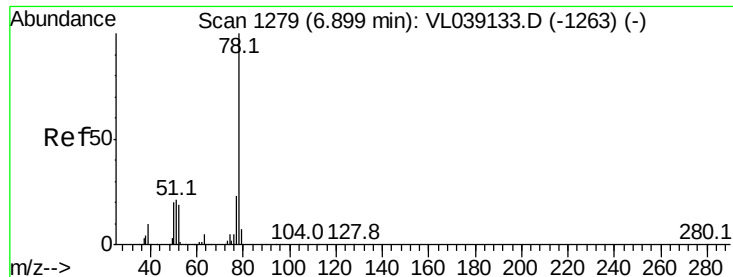
Ion Ratio Lower Upper

114 100

63 25.7 20.2 30.4

88 18.6 14.5 21.7





#36

Benzene

Concen: 0.03 ppbv

RT: 6.88 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 30 Jun 2022 00:25

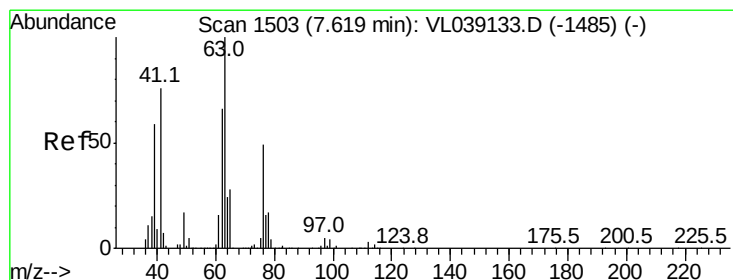
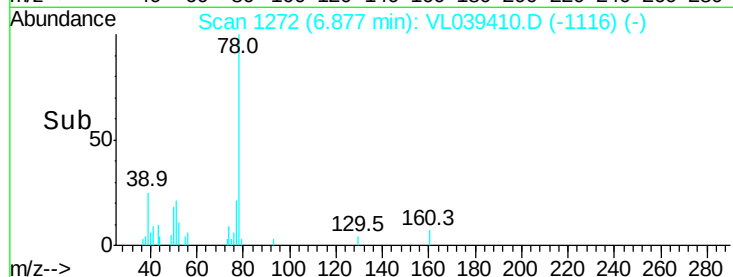
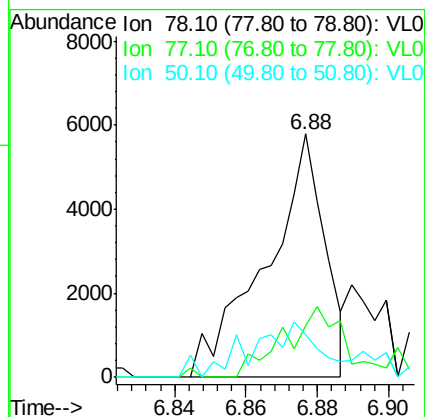
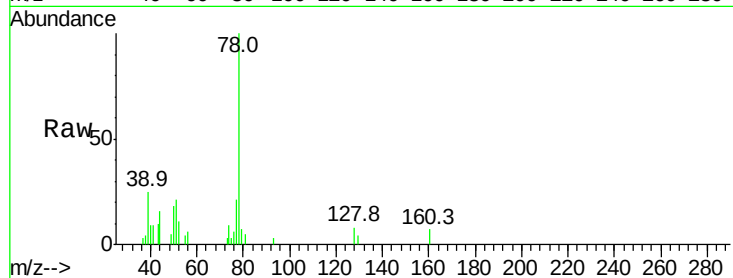
Tgt Ion: 78 Resp: 6610

Ion Ratio Lower Upper

78 100

77 17.7 20.3 30.5#

50 11.4 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 8.67 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.43 min

Lab File: VL039410.D

Acq: 30 Jun 2022 00:25

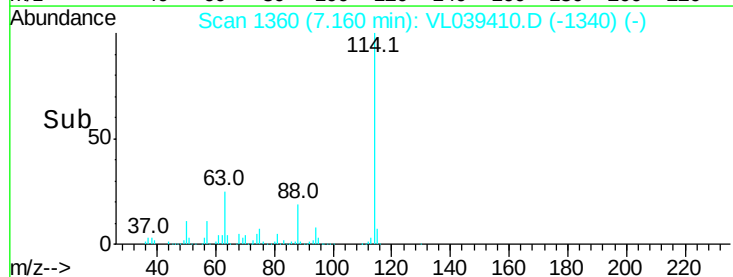
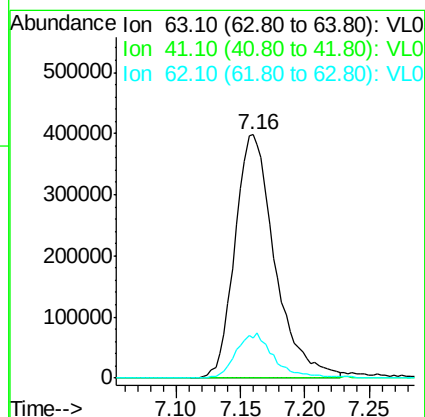
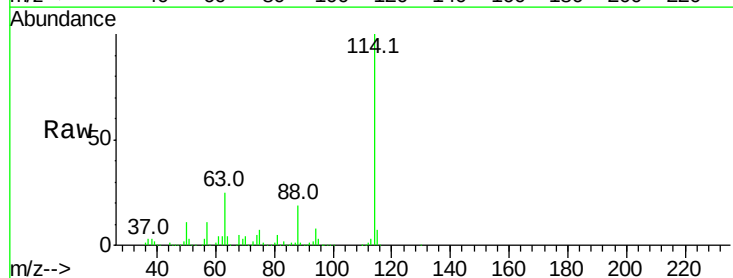
Tgt Ion: 63 Resp: 855044

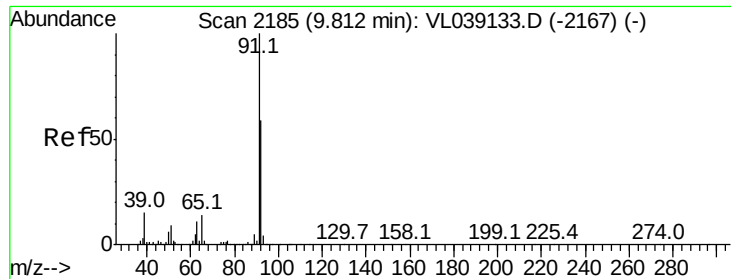
Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 16.3 51.4 77.0#





#53

Toluene

Concen: 0.09 ppbv

RT: 9.79 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

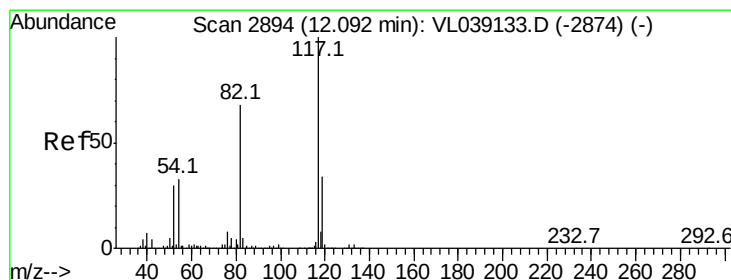
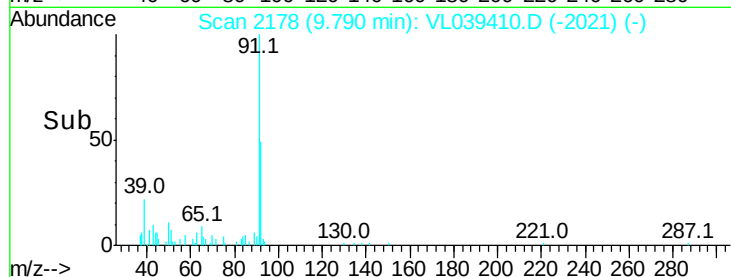
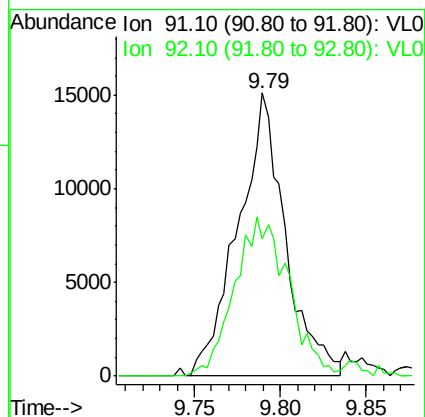
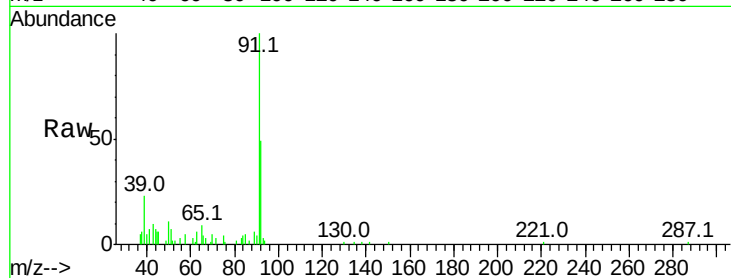
Acq: 30 Jun 2022 00:25

Tgt Ion: 91 Resp: 28847

Ion Ratio Lower Upper

91 100

92 67.1 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VL039410.D

Acq: 30 Jun 2022 00:25

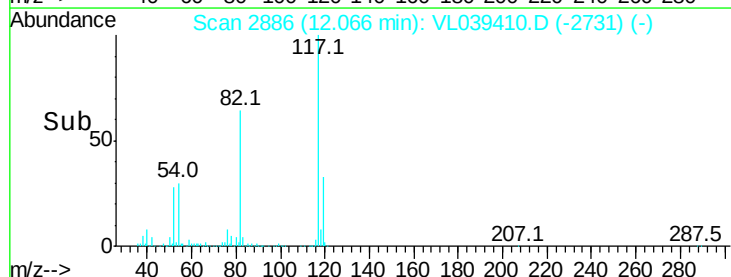
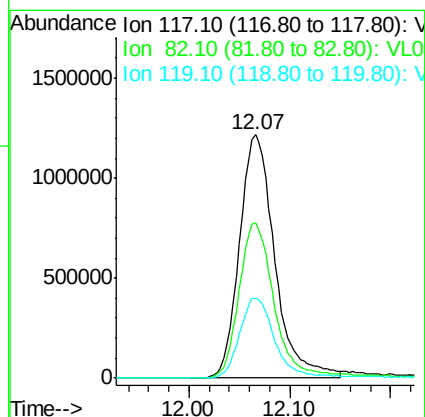
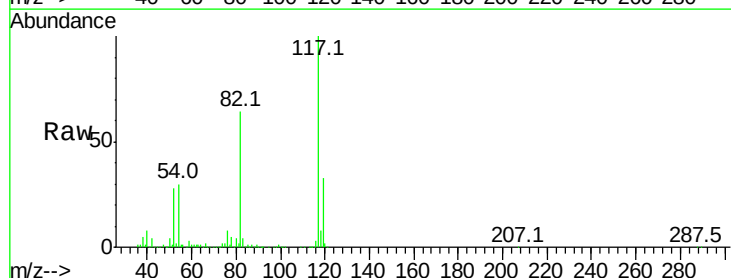
Tgt Ion: 117 Resp: 2955599

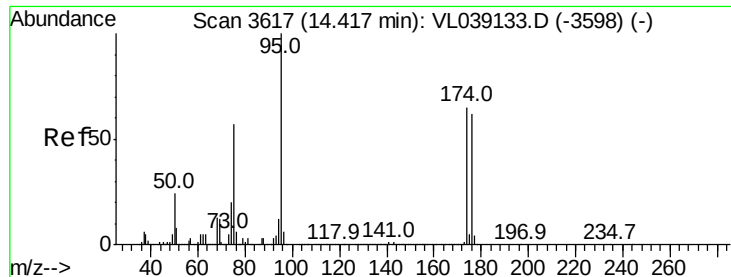
Ion Ratio Lower Upper

117 100

82 65.7 50.8 76.2

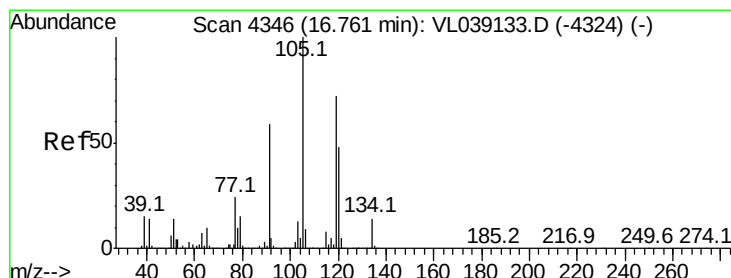
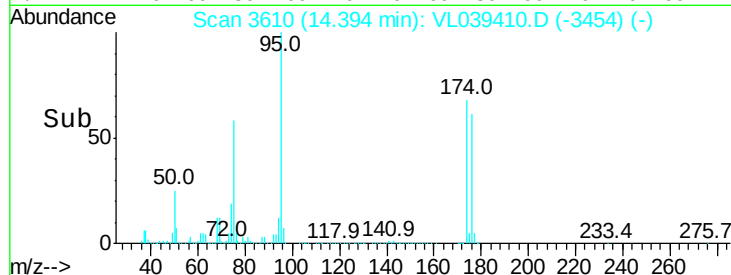
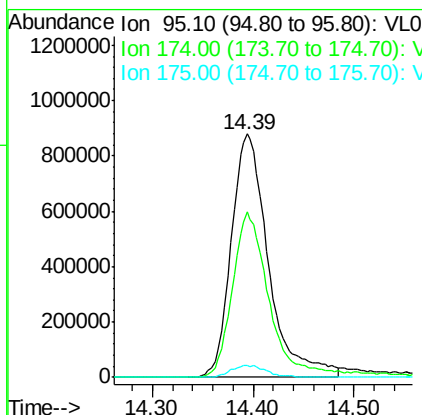
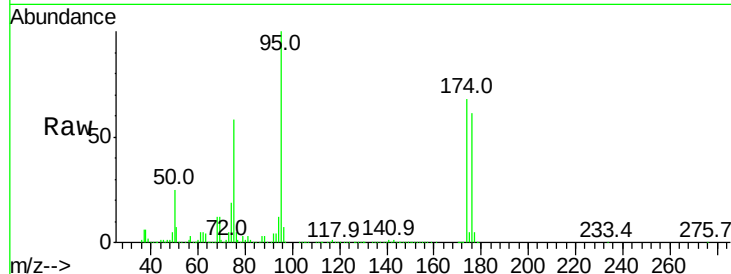
119 33.5 24.1 36.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.27 ppbv
 RT: 14.39 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 30 Jun 2022 00:25

Tgt Ion:	95	Resp:	2250740
Ion	Ratio	Lower	Upper
95	100		
174	70.1	55.9	83.9
175	4.9	4.2	6.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.02 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. 0.00 min
 Lab File: VL039410.D
 Acq: 30 Jun 2022 00:25

Tgt Ion:	105	Resp:	8355
Ion	Ratio	Lower	Upper
105	100		
120	37.1	39.5	59.3#
91	15.8	39.2	58.8#
77	17.7	17.2	25.8

