

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032422\
 Data File : VL038756.D
 Acq On : 24 Mar 2022 20:17
 Operator : SY/AP
 Sample : N2078-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-2DL

Quant Time: Mar 25 02:10:27 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	803583	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	2143115	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	1807933	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.43	95	1350672	9.74	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%	

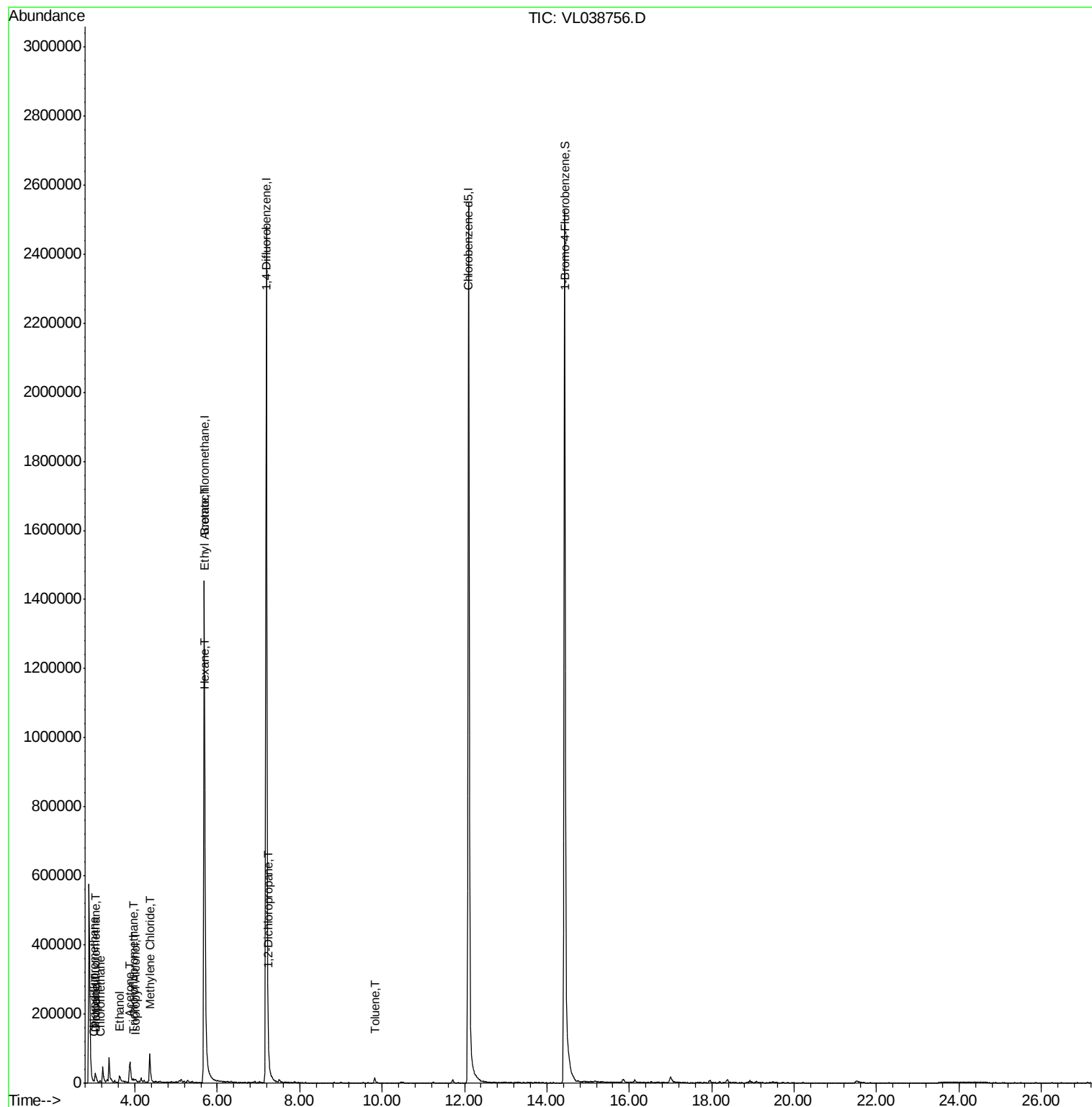
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	9278	0.09	ppbv	92
3) Chlorodifluoromethane	3.01	51	5917	0.07	ppbv	93
4) Chloromethane	3.15	50	2530	0.05	ppbv	97
9) Propene	3.04	41	4162	0.10	ppbv #	15
11) Trichlorofluoromethane	3.97	101	3303	0.03	ppbv	89
13) Ethanol	3.63	45	22048	4.88	ppbv	89
15) Acetone	3.87	43	79004	1.14	ppbv	97
19) Isopropyl Alcohol	4.00	45	3480	0.09	ppbv #	91
20) Methylene Chloride	4.36	84	34843	1.19	ppbv	98
25) Ethyl Acetate	5.70	43	7413	0.04	ppbv #	67
26) Hexane	5.70	57	17459	0.22	ppbv #	45
39) 1,2-Dichloropropane	7.24	63	5350	0.08	ppbv #	31
53) Toluene	9.82	91	11354	0.06	ppbv	96

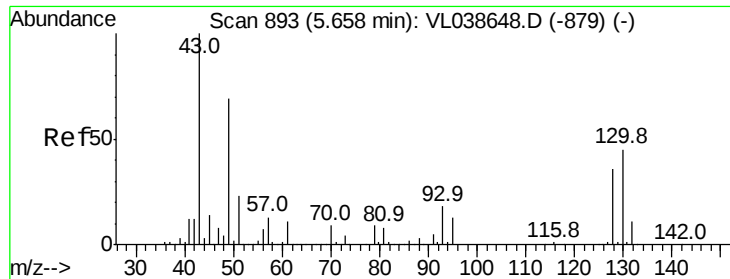
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL032422\
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Instrument :
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ClientSampleId :
V-2DL

Quant Time: Mar 25 02:10:27 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 20:17

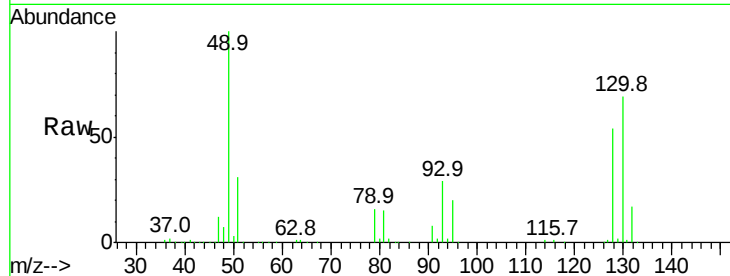
Tgt Ion: 49 Resp: 803583

Ion Ratio Lower Upper

49 100

128 56.6 26.2 78.6

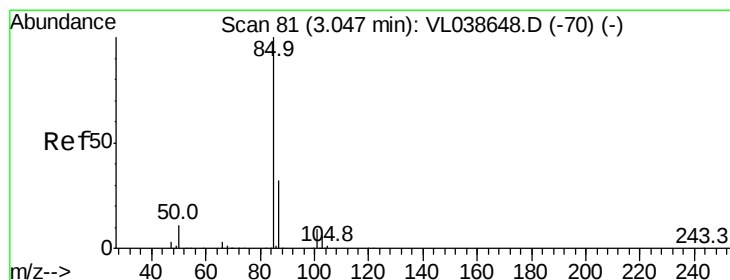
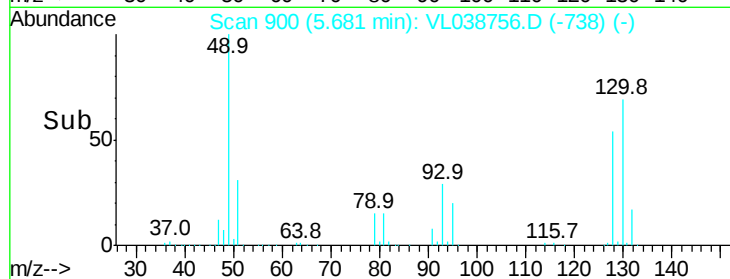
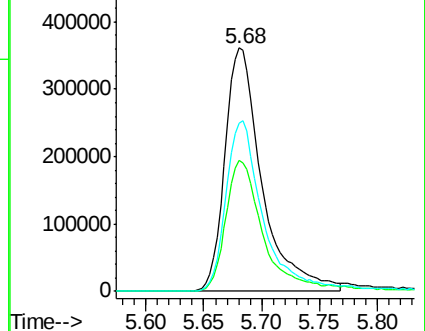
130 73.3 33.7 101.1



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: 0.09 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL038756.D

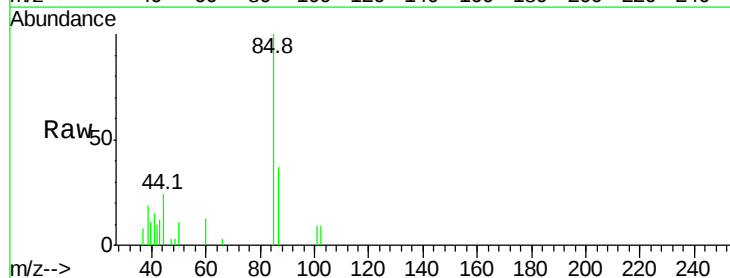
Acq: 24 Mar 2022 20:17

Tgt Ion: 85 Resp: 9278

Ion Ratio Lower Upper

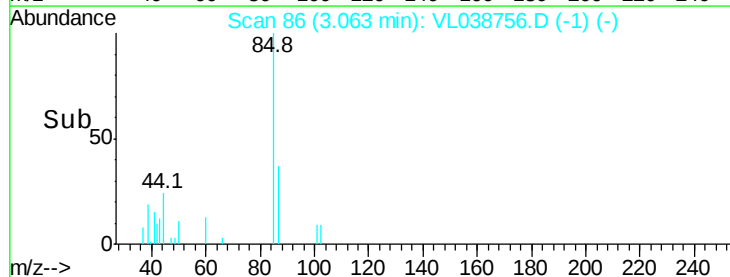
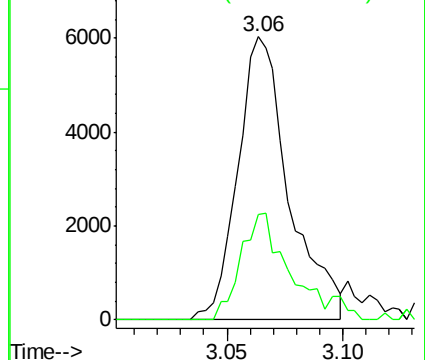
85 100

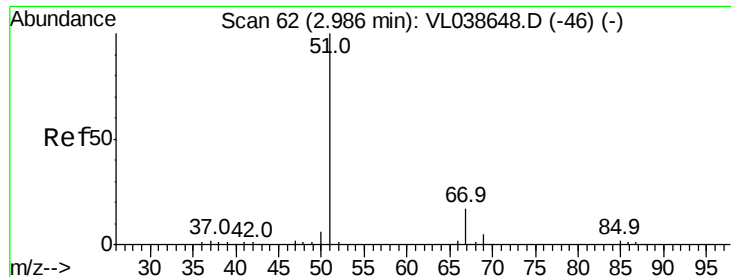
87 37.1 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.07 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

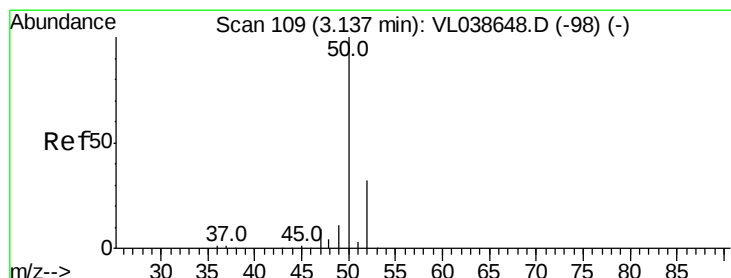
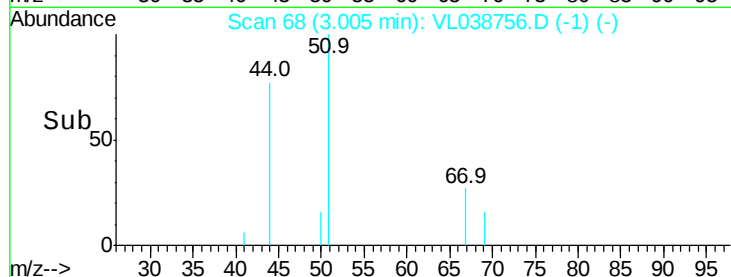
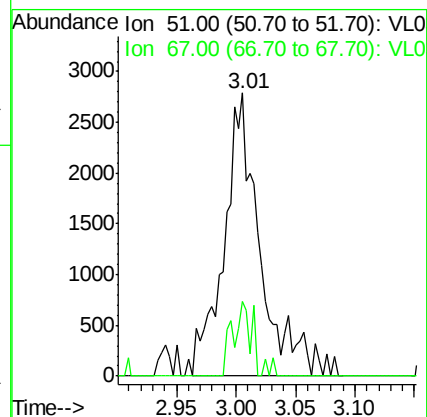
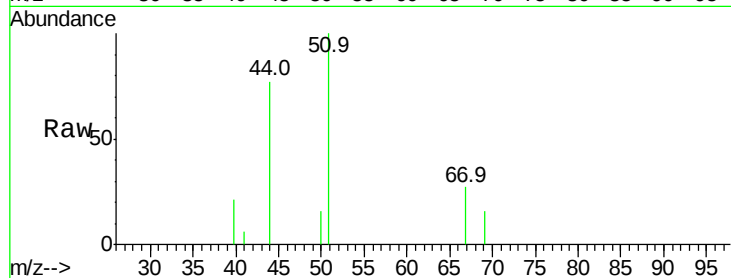
Acq: 24 Mar 2022 20:17

Tgt Ion: 51 Resp: 5917

Ion Ratio Lower Upper

51 100

67 14.4 14.1 21.1



#4

Chloromethane

Concen: 0.05 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL038756.D

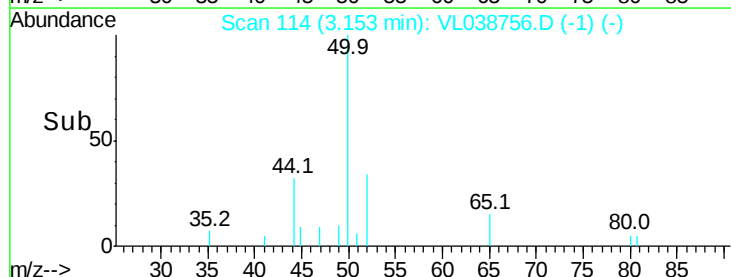
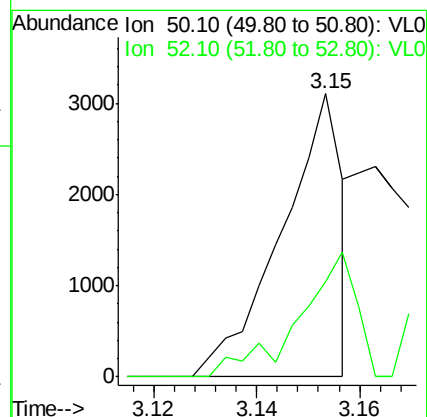
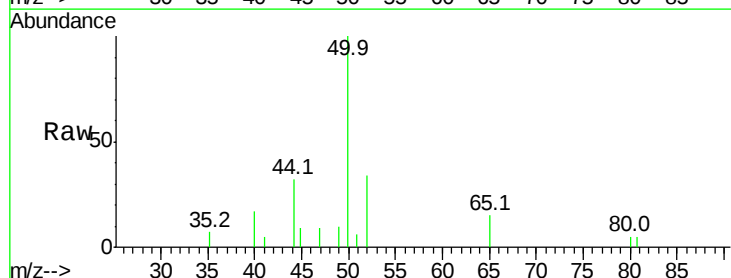
Acq: 24 Mar 2022 20:17

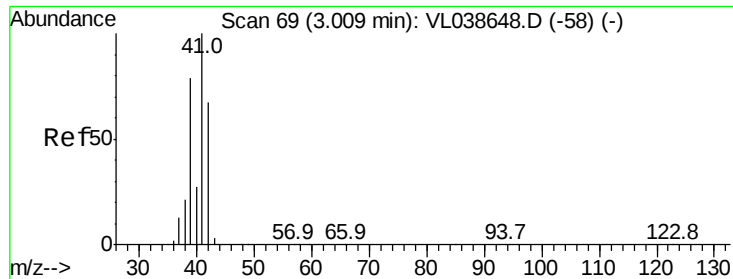
Tgt Ion: 50 Resp: 2530

Ion Ratio Lower Upper

50 100

52 33.8 25.5 38.3





#9

Propene

Concen: 0.10 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

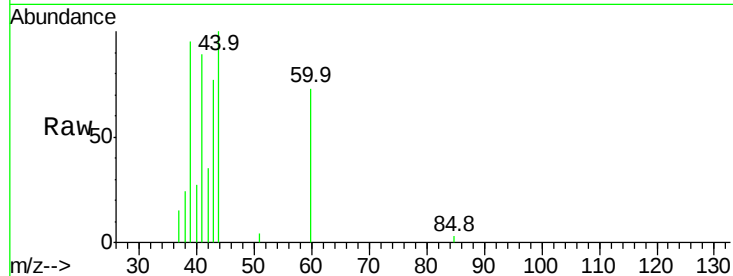
Acq: 24 Mar 2022 20:17

Tgt Ion: 41 Resp: 4162

Ion Ratio Lower Upper

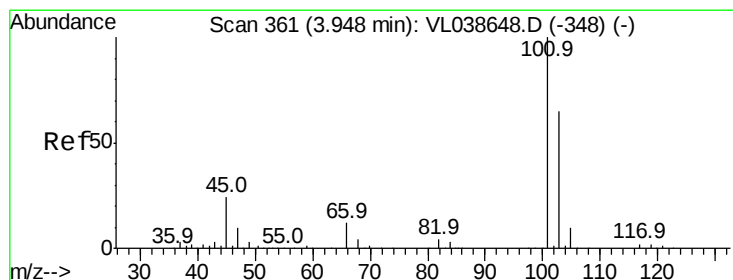
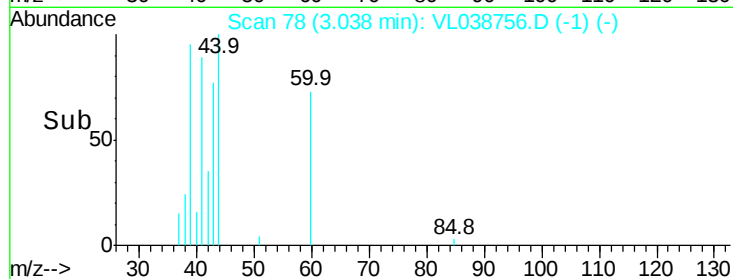
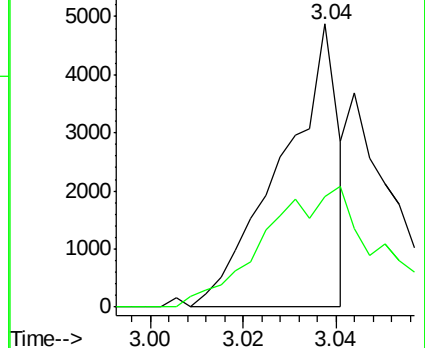
41 100

42 0.0 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.03 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL038756.D

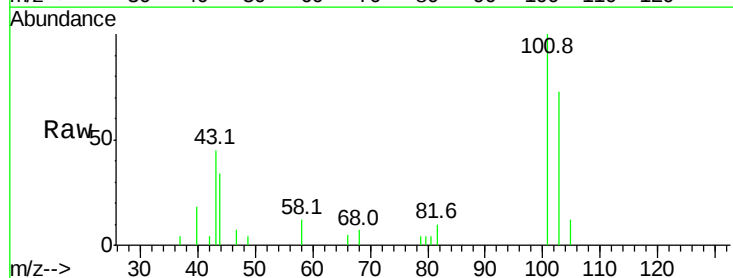
Acq: 24 Mar 2022 20:17

Tgt Ion: 101 Resp: 3303

Ion Ratio Lower Upper

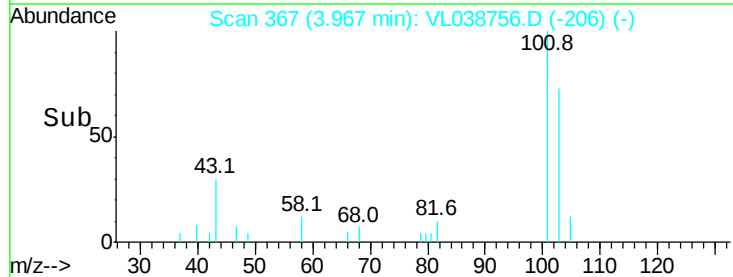
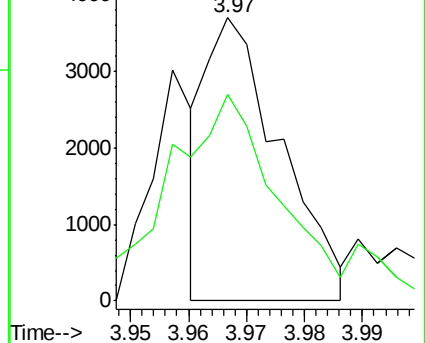
101 100

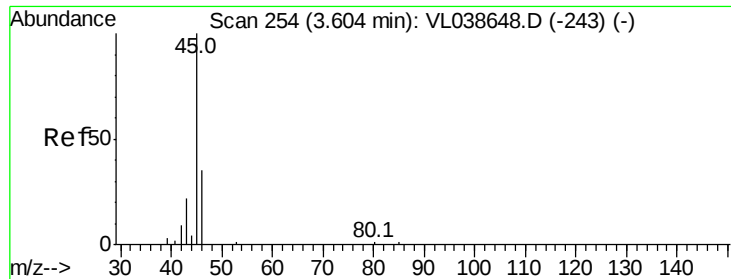
103 73.3 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 4.88 ppbv

RT: 3.63 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

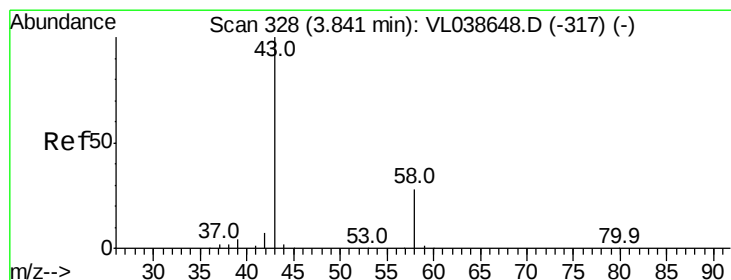
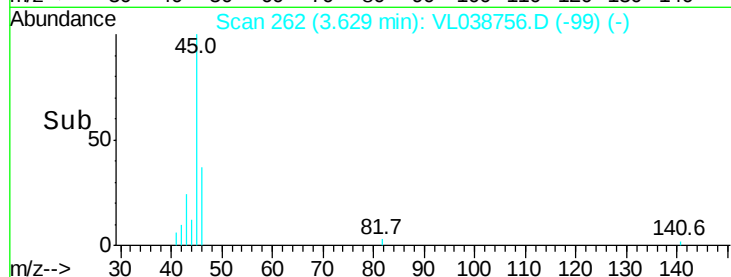
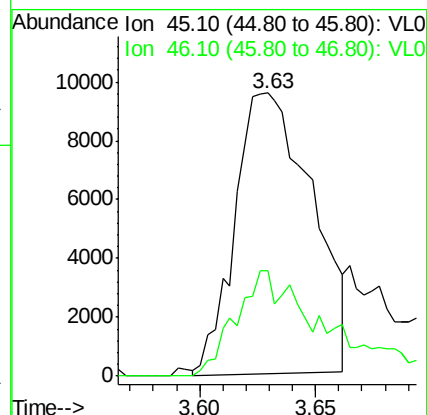
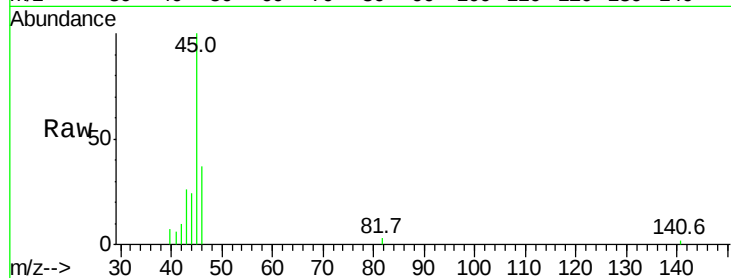
Acq: 24 Mar 2022 20:17

Tgt Ion: 45 Resp: 22048

Ion Ratio Lower Upper

45 100

46 44.2 15.1 60.5



#15

Acetone

Concen: 1.14 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.03 min

Lab File: VL038756.D

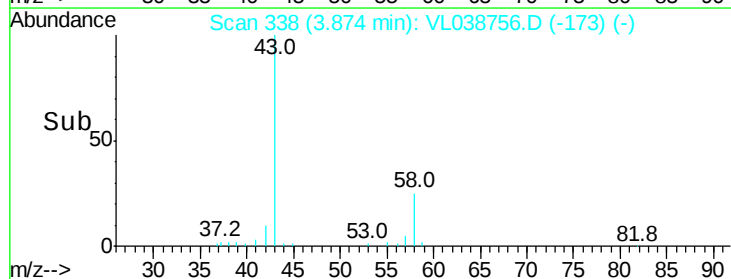
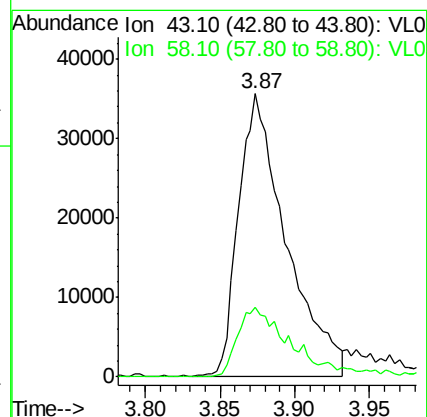
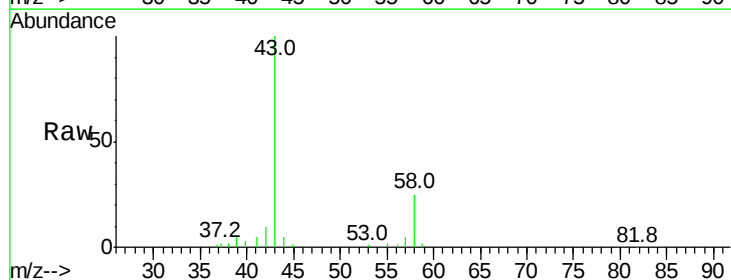
Acq: 24 Mar 2022 20:17

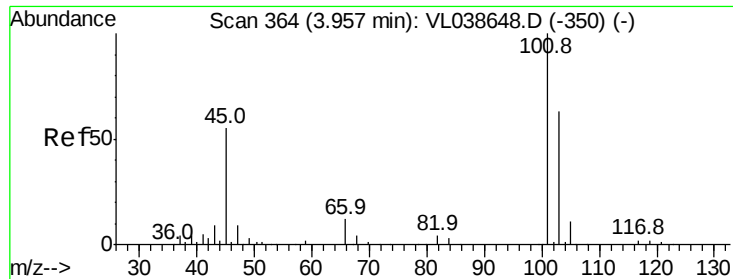
Tgt Ion: 43 Resp: 79004

Ion Ratio Lower Upper

43 100

58 30.6 23.3 34.9





#19

Isopropyl Alcohol

Concen: 0.09 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

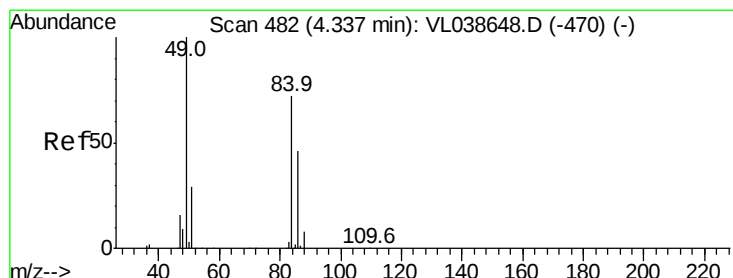
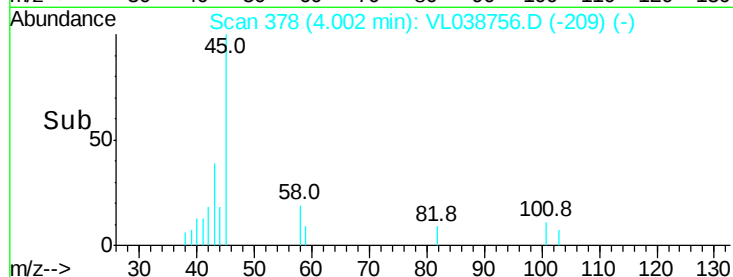
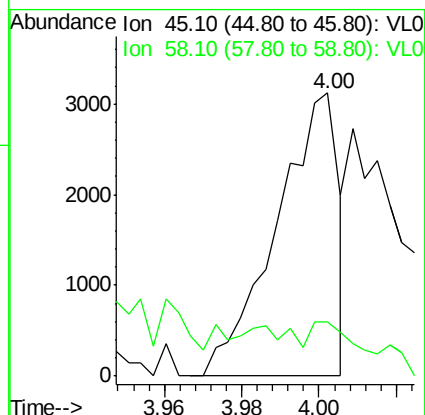
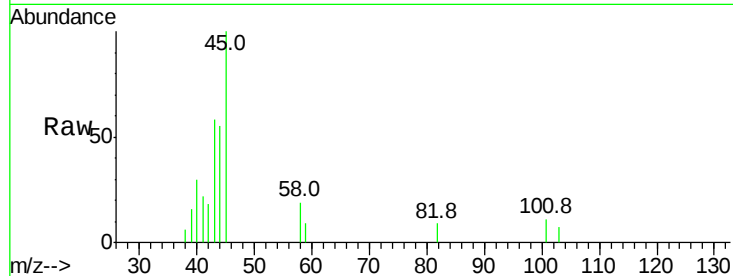
Acq: 24 Mar 2022 20:17

Tgt Ion: 45 Resp: 3480

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



#20

Methylene Chloride

Concen: 1.19 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL038756.D

Acq: 24 Mar 2022 20:17

Tgt Ion: 84 Resp: 34843

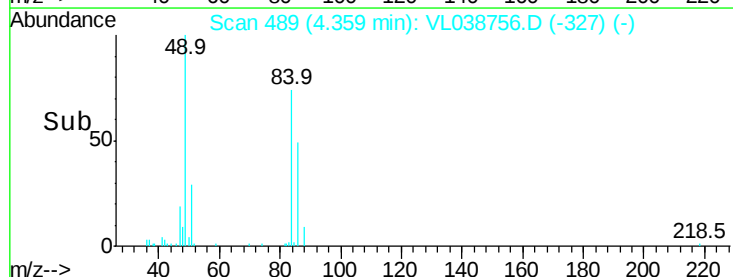
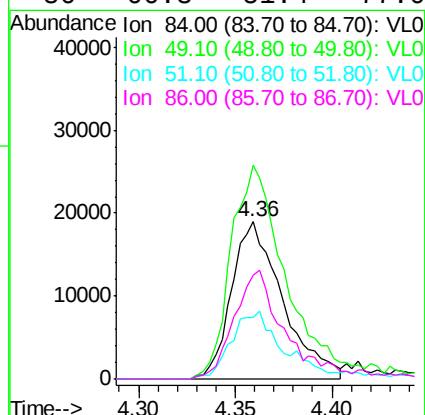
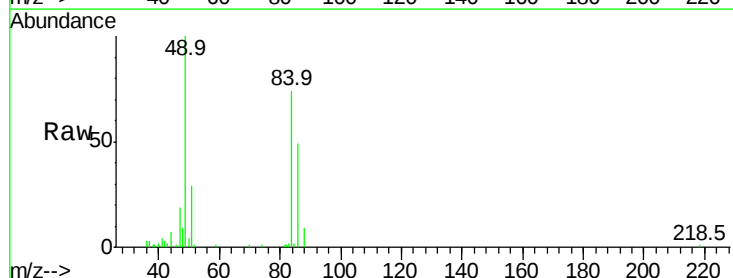
Ion Ratio Lower Upper

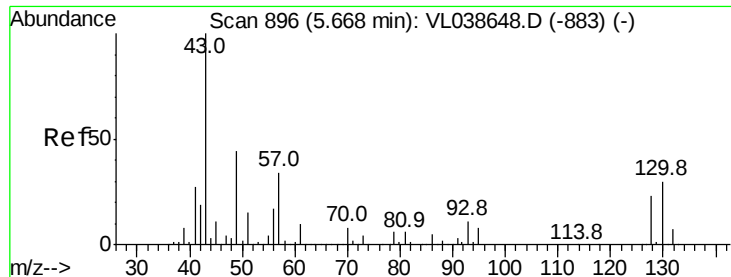
84 100

49 136.0 111.2 166.8

51 39.9 32.8 49.2

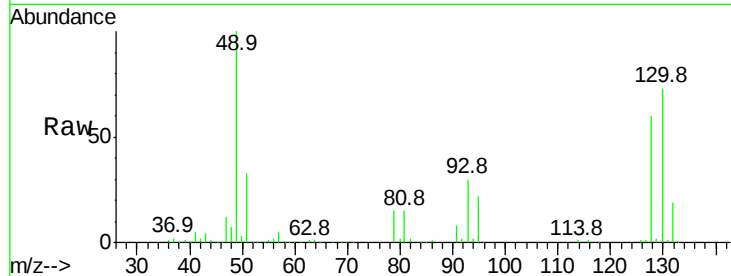
86 66.3 51.4 77.0



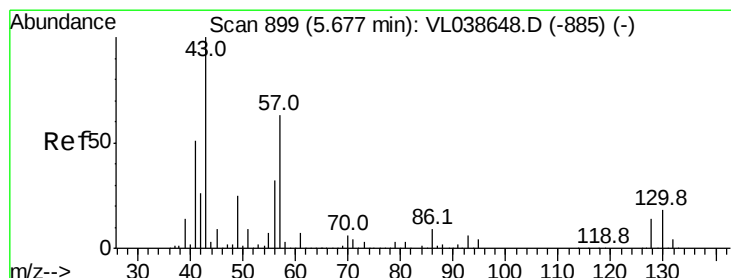
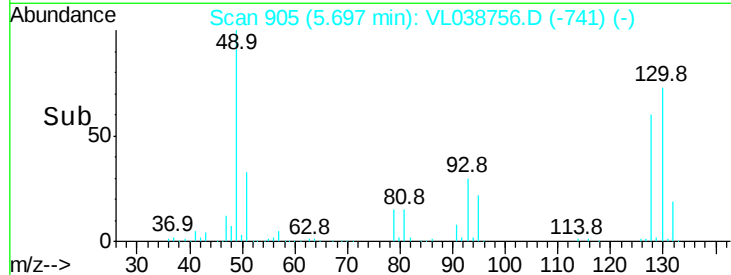
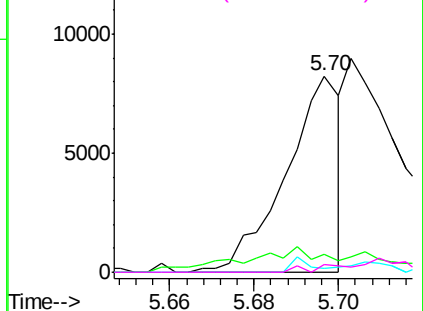


#25
Ethyl Acetate
Concen: 0.04 ppbv
RT: 5.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Mar 2022 20:17

Tgt Ion:	43	Resp:	7413
Ion	Ratio	Lower	Upper
43	100		
45	35.7	8.2	12.4#
61	7.9	8.3	12.5#
70	0.0	5.6	8.4#

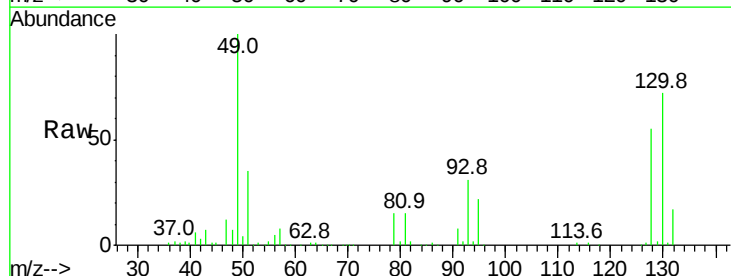


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

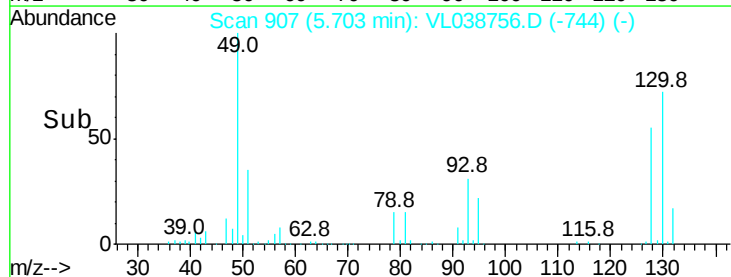
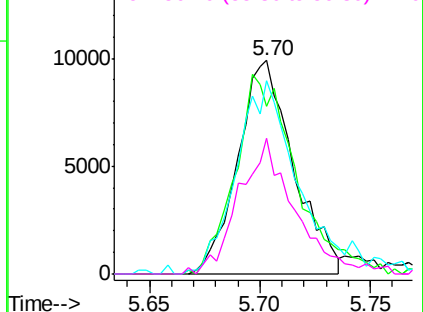


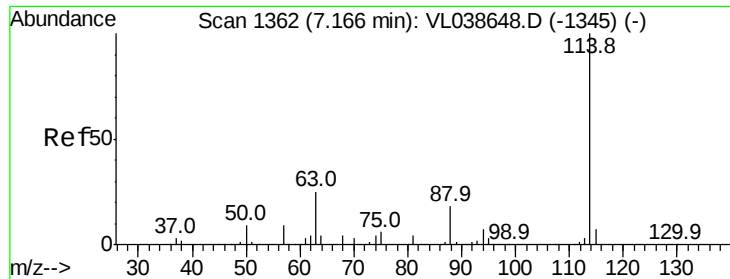
#26
Hexane
Concen: 0.22 ppbv
RT: 5.70 min Scan# 907
Delta R.T.: 0.03 min
Lab File: VL038756.D
Acq: 24 Mar 2022 20:17

Tgt Ion:	57	Resp:	17459
Ion	Ratio	Lower	Upper
57	100		
41	103.7	67.0	100.4#
43	103.1	184.2	276.2#
56	63.8	42.6	64.0



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: 10.00 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 20:17

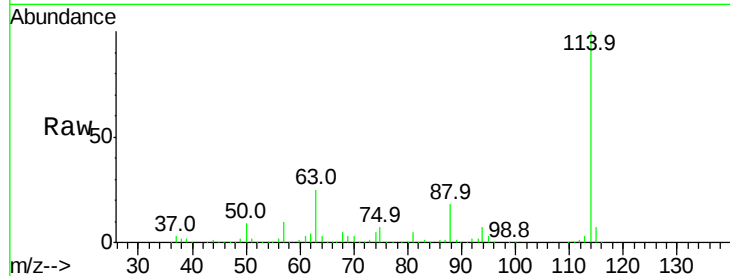
Tgt Ion: 114 Resp: 2143115

Ion Ratio Lower Upper

114 100

63 23.8 19.4 29.0

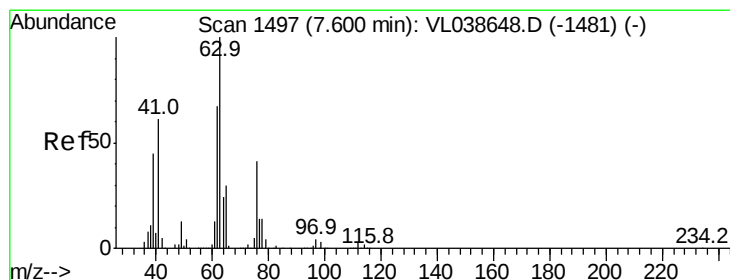
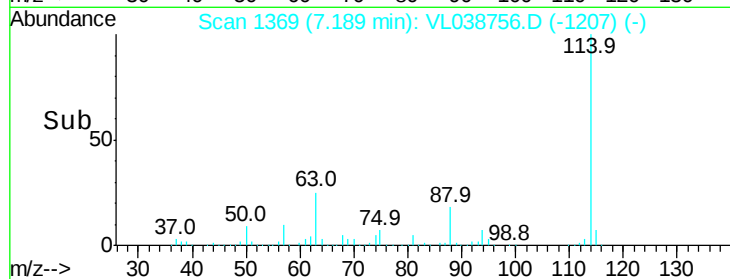
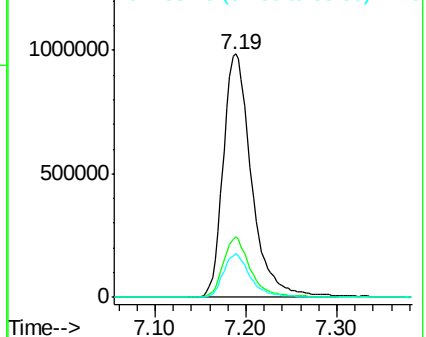
88 17.3 13.9 20.9



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



#39

1,2-Dichloropropane

Concen: 0.08 ppbv

RT: 7.24 min Scan# 1385

Delta R.T. -0.36 min

Lab File: VL038756.D

Acq: 24 Mar 2022 20:17

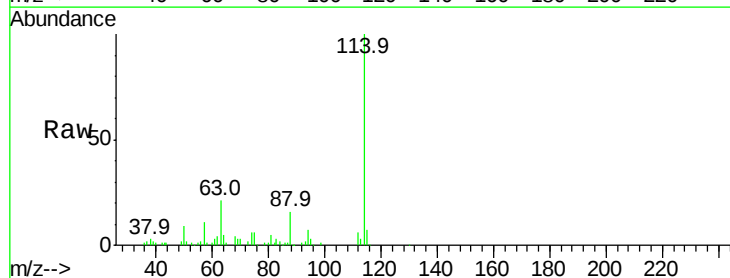
Tgt Ion: 63 Resp: 5350

Ion Ratio Lower Upper

63 100

41 0.0 49.0 73.6#

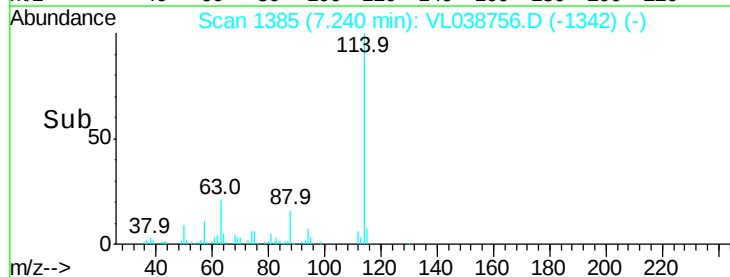
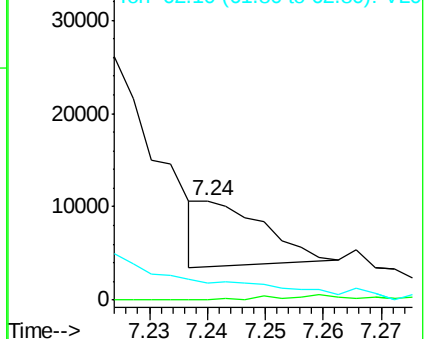
62 20.6 53.9 80.9#

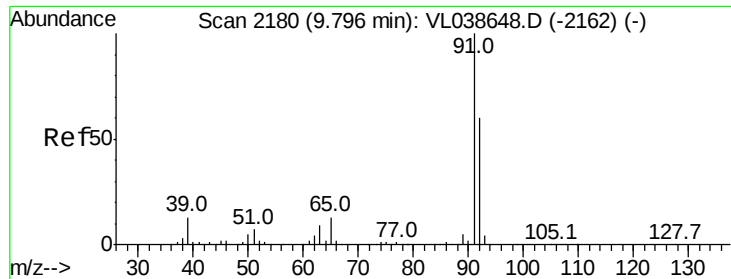


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.06 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T. 0.02 min

Lab File: ClientSampleId:

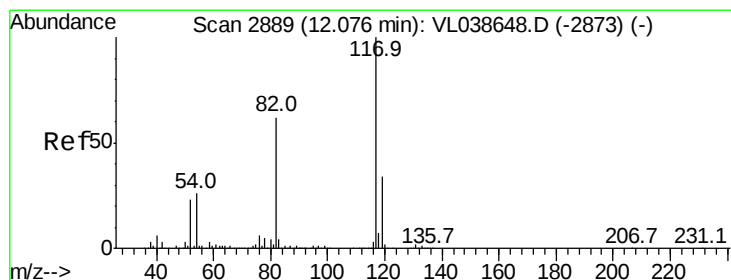
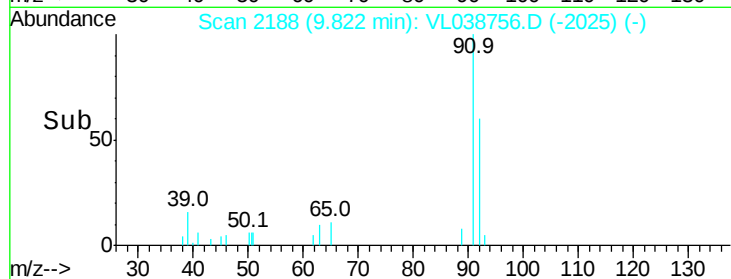
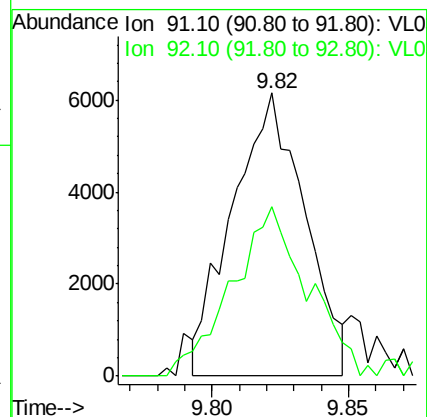
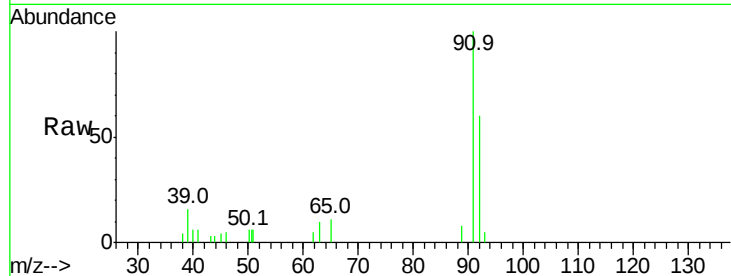
Acq: 24 Mar 2022 20:17

Tgt Ion: 91 Resp: 11354

Ion Ratio Lower Upper

91 100

92 64.1 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.02 min

Lab File: VL038756.D

Acq: 24 Mar 2022 20:17

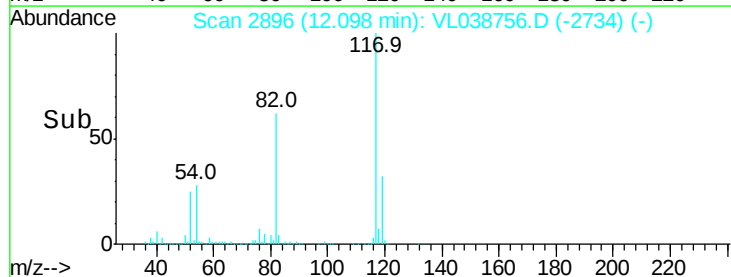
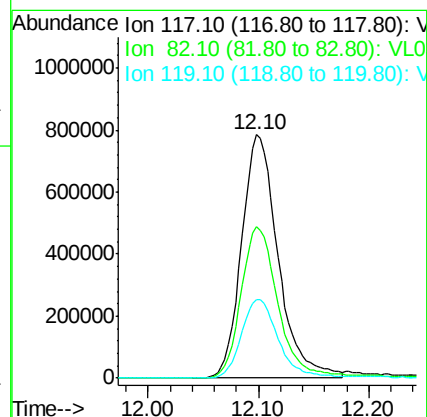
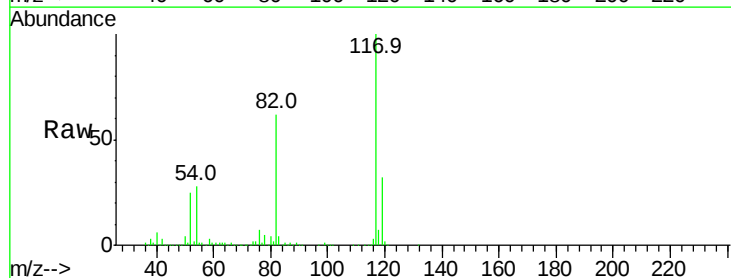
Tgt Ion: 117 Resp: 1807933

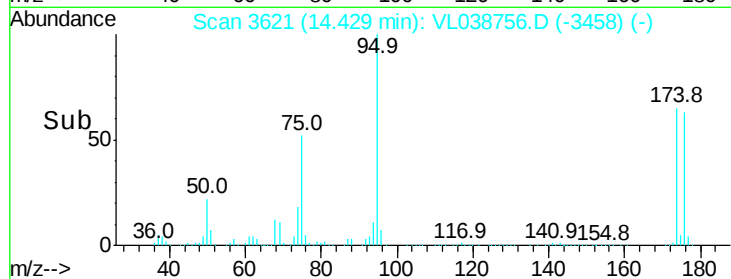
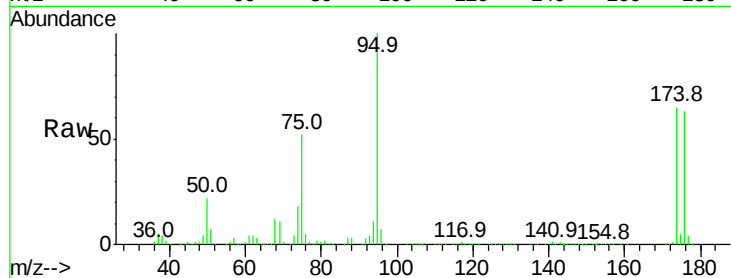
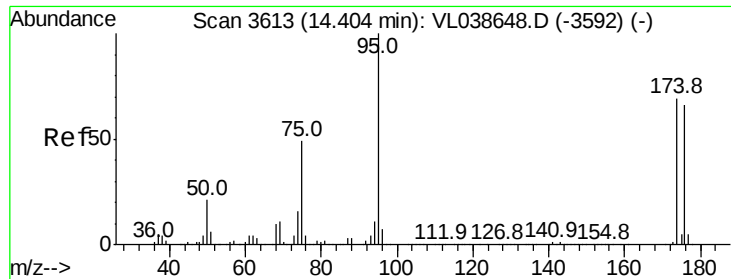
Ion Ratio Lower Upper

117 100

82 65.1 51.6 77.4

119 34.0 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.74 ppbv

RT: 14.43

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

V-2DL

Acq: 24 Mar 2022 20:17

Tgt Ion: 95 Resp: 1350672

Ion Ratio Lower Upper

95 100

174 71.3 56.1 84.1

175 5.1 4.2 6.2

