

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039093.D
 Acq On : 23 May 2022 21:04
 Operator : SY/AP
 Sample : N2956-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-2DL

Quant Time: May 24 06:01:47 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1112522	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2548567	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2169272	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1811366	10.54	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

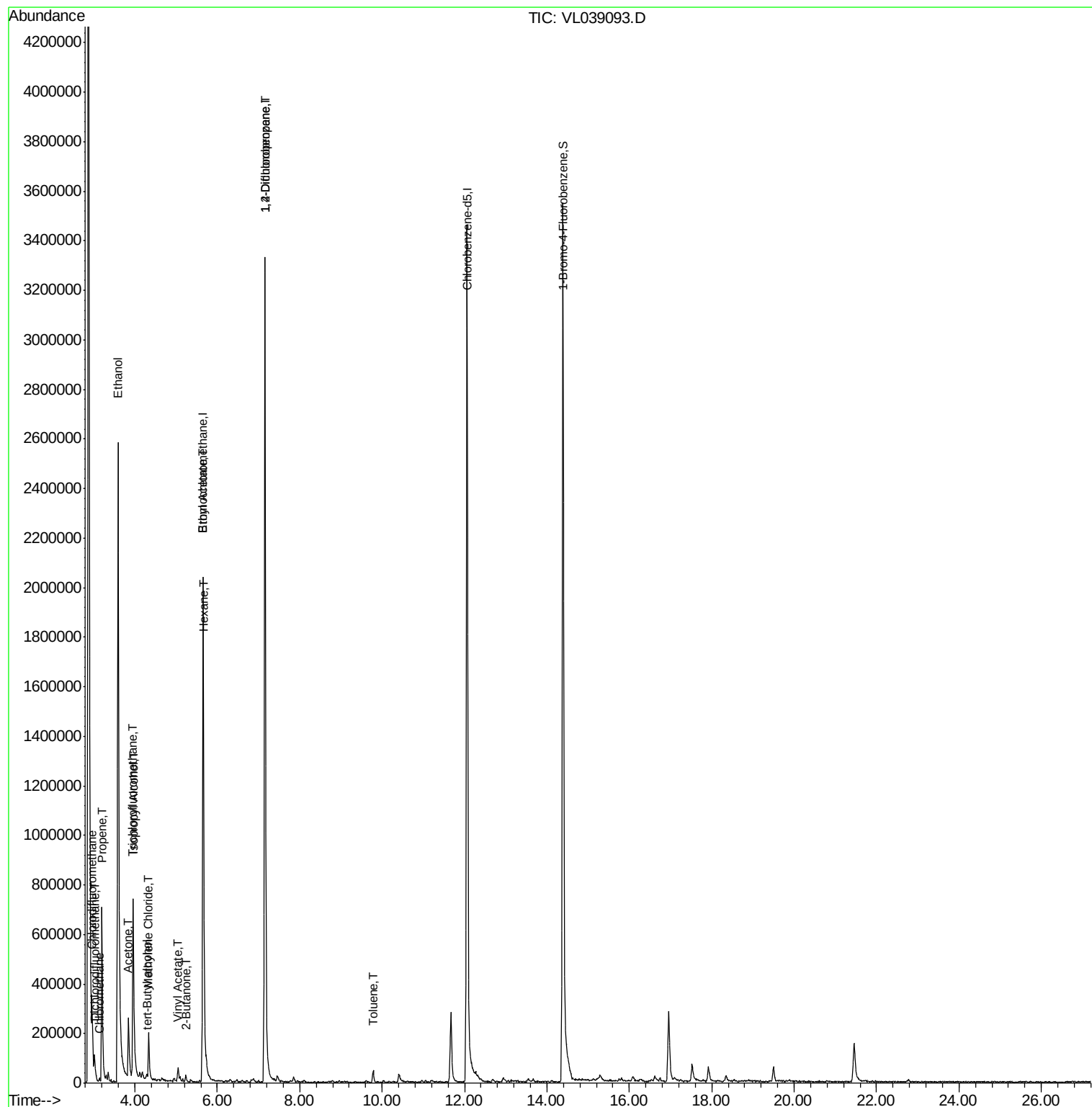
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	18779	0.108	ppbv	93
3) Chlorodifluoromethane	2.96	51	217290	1.574	ppbv #	60
4) Chloromethane	3.14	50	11922	0.172	ppbv	95
9) Propene	3.20	41	242261	4.018	ppbv	94
11) Trichlorofluoromethane	3.94	101	4749	0.032	ppbv	96
13) Ethanol	3.59	45	3493823	818.916	ppbv	89
15) Acetone	3.84	43	298955	2.849	ppbv	97
17) tert-Butyl alcohol	4.29	59	4434	0.055	ppbv #	1
19) Isopropyl Alcohol	3.95	45	899997	18.037	ppbv #	98
20) Methylene Chloride	4.33	84	75708	1.914	ppbv	93
23) Vinyl Acetate	5.05	43	25667	0.309	ppbv #	22
25) Ethyl Acetate	5.66	43	17921	0.071	ppbv #	82
26) Hexane	5.67	57	41051	0.368	ppbv #	52
34) 2-Butanone	5.23	43	32892	0.253	ppbv	93
39) 1,2-Dichloropropane	7.15	63	718393	8.465	ppbv #	27
53) Toluene	9.78	91	9485	0.039	ppbv #	1

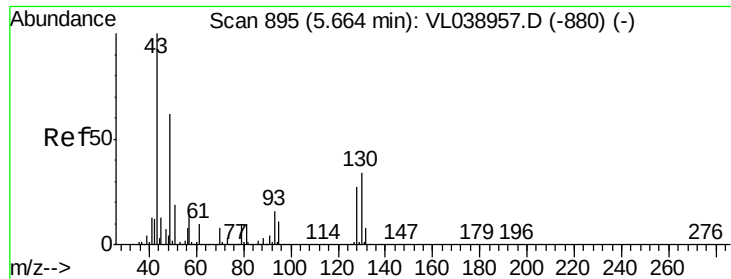
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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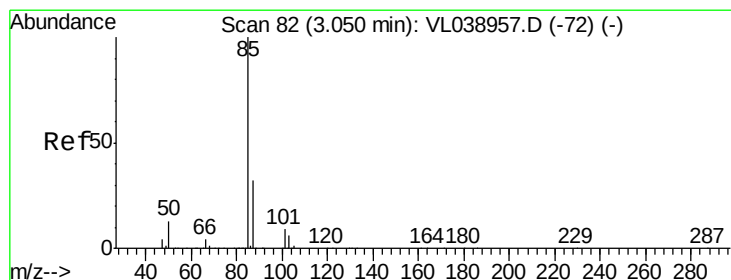
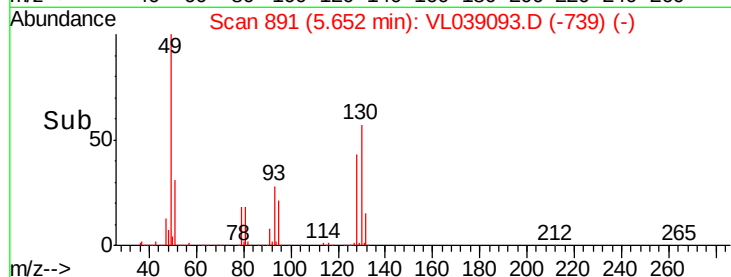
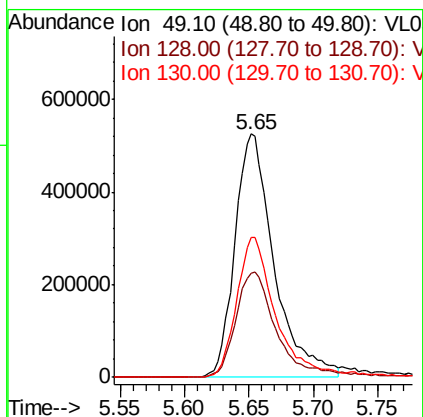
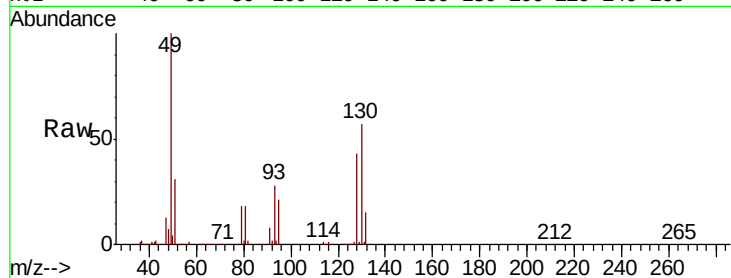




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 AP-2DL
 Acq: 23 May 2022 21:04

Tot Ion: 49 Resp: 1112522

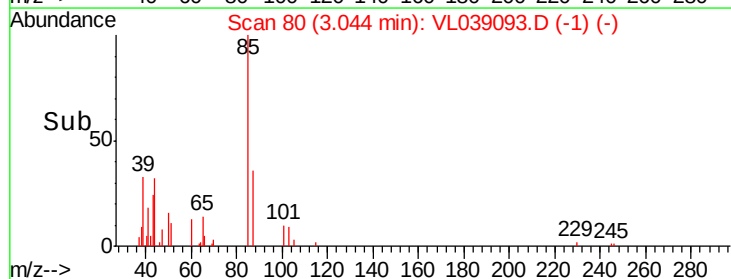
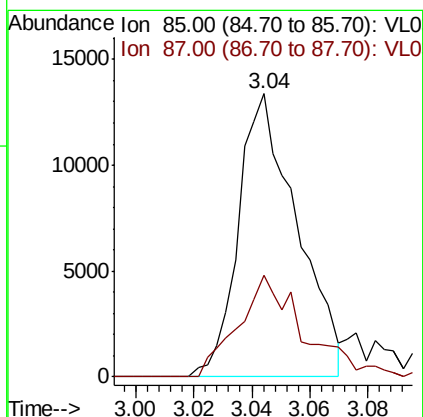
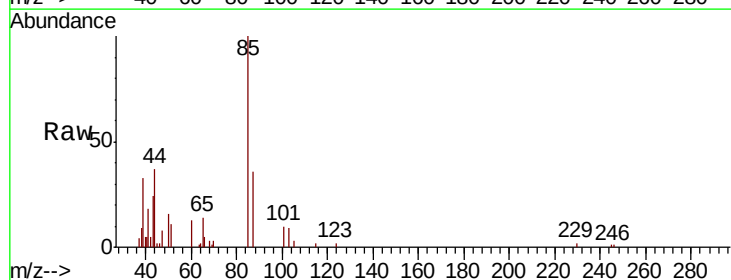
Ion	Ratio	Lower	Upper
49	100		
128	46.9	23.3	69.8
130	59.5	29.8	89.3

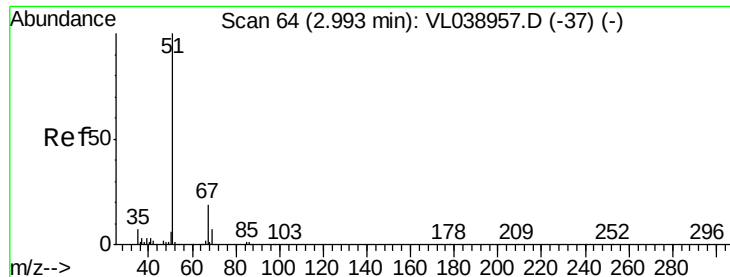


#2
 Dichlorodifluoromethane
 Concen: 0.108 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.01 min
 Lab File: VL039093.D
 Acq: 23 May 2022 21:04

Tgt Ion: 85 Resp: 18779

Ion	Ratio	Lower	Upper
85	100		
87	36.1	25.7	38.5





#3

Chlorodifluoromethane

Concen: 1.574 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

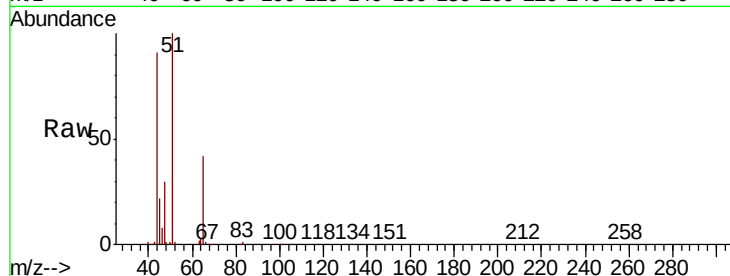
Acq: 23 May 2022 21:04

Tot Ion: 51 Resp: 217290

Ion Ratio Lower Upper

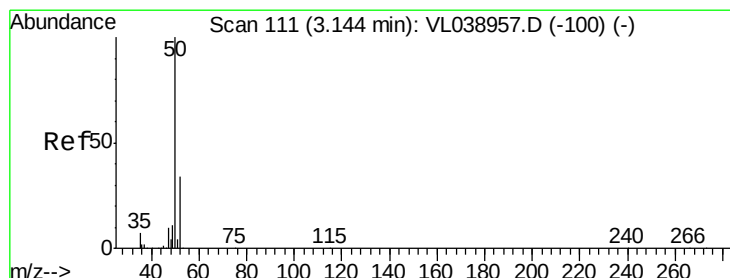
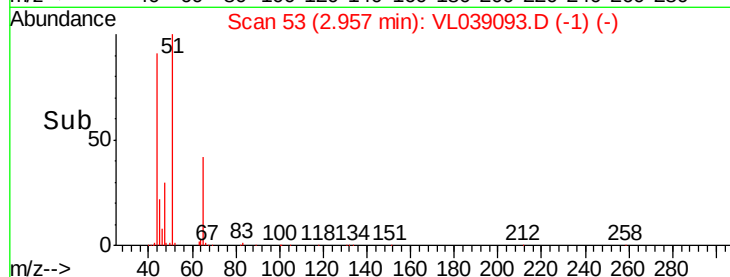
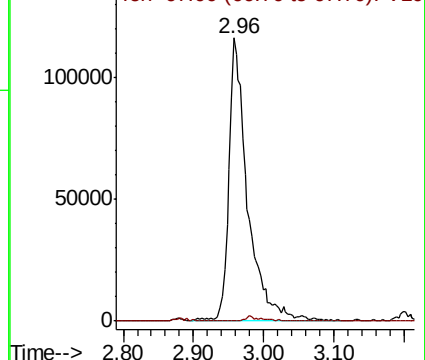
51 100

67 1.5 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.172 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039093.D

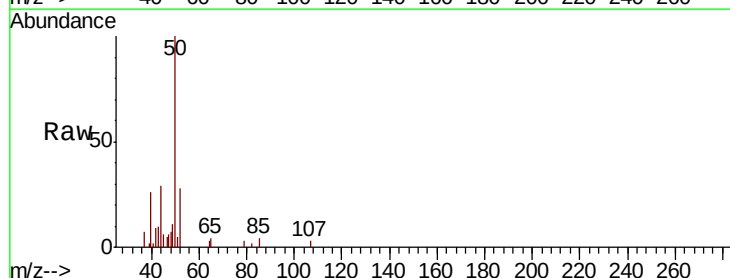
Acq: 23 May 2022 21:04

Tgt Ion: 50 Resp: 11922

Ion Ratio Lower Upper

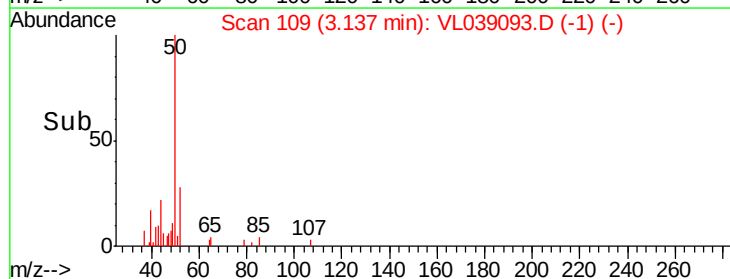
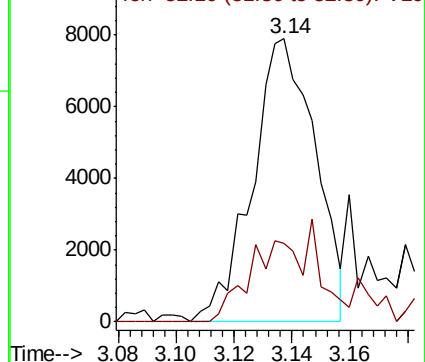
50 100

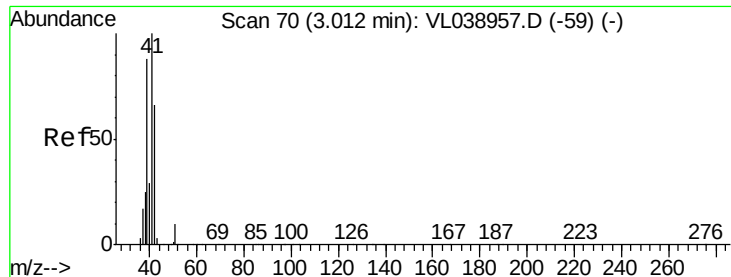
52 31.2 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

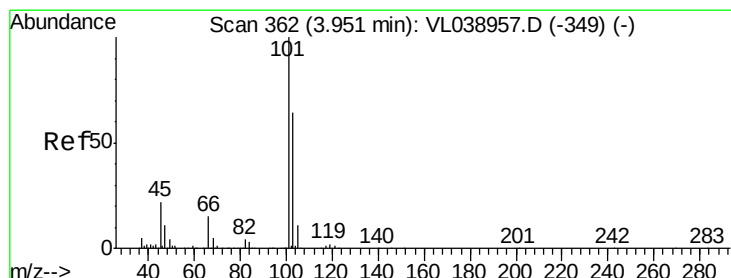
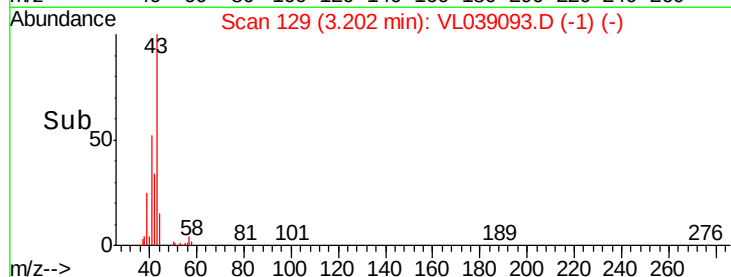
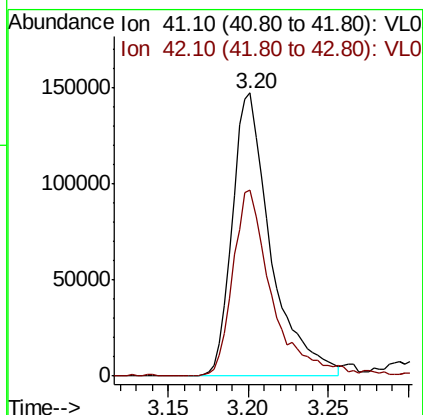
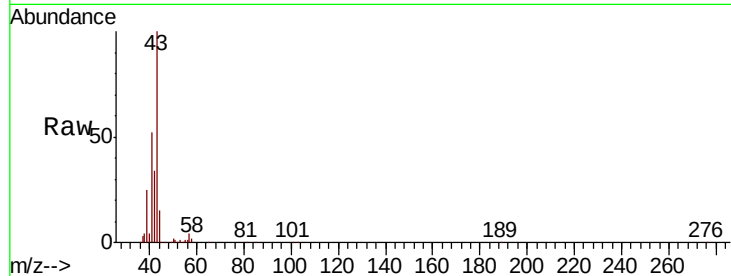
Ion 52.10 (51.80 to 52.80): VL0





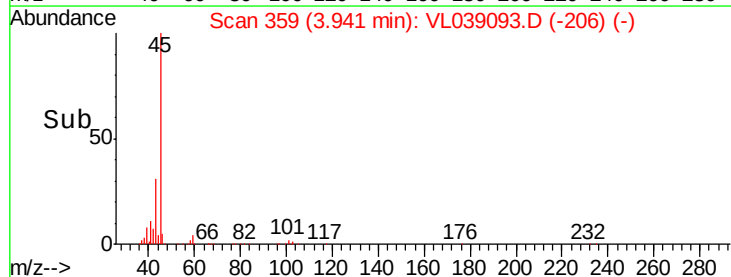
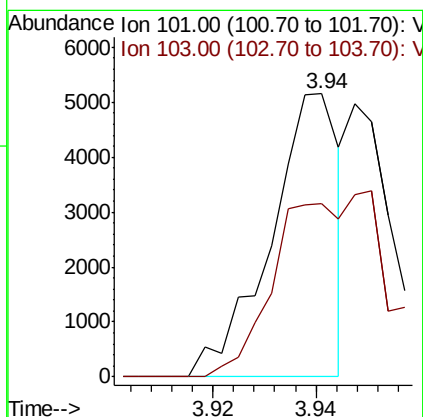
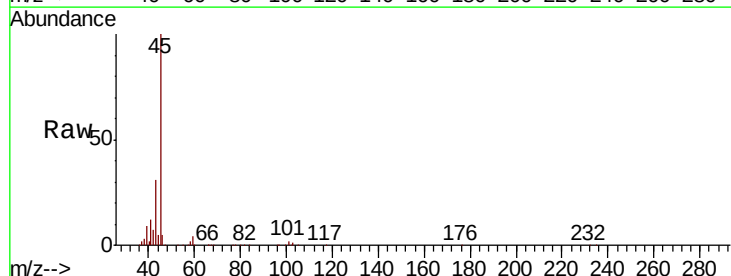
#9
 Propene
 Concen: 4.018 ppbv
 RT: 3.20
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 AP-2DL
 Acq: 23 May 2022 21:04

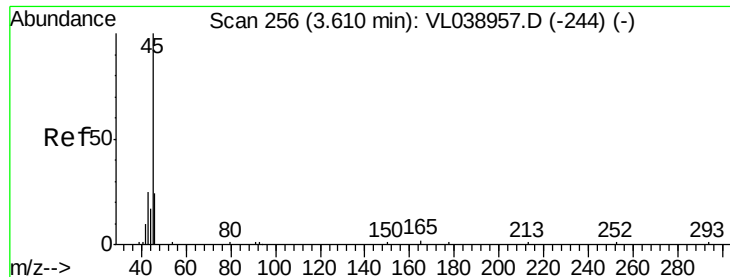
Tot Ion: 41 Resp: 242261
 Ion Ratio Lower Upper
 41 100
 42 68.2 58.3 87.5



#11
 Trichlorofluoromethane
 Concen: 0.032 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL039093.D
 Acq: 23 May 2022 21:04

Tgt Ion: 101 Resp: 4749
 Ion Ratio Lower Upper
 101 100
 103 61.1 51.5 77.3





#13

Ethanol

Concen: 818.916 ppbv

RT: 3.59 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

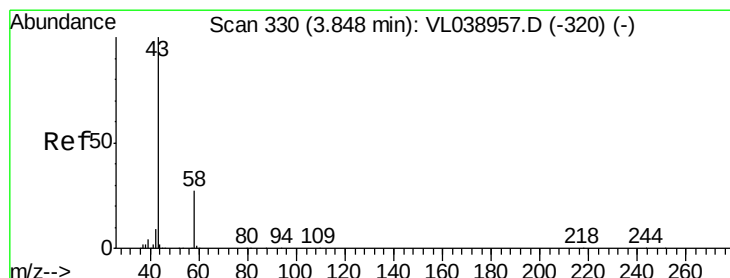
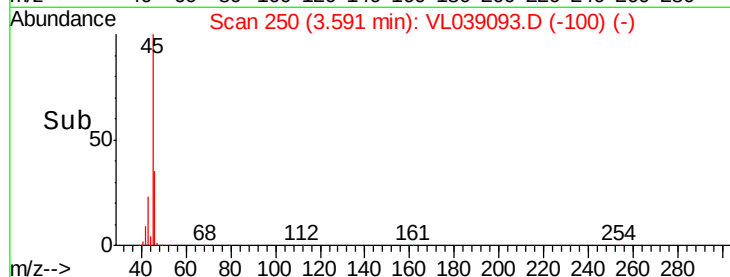
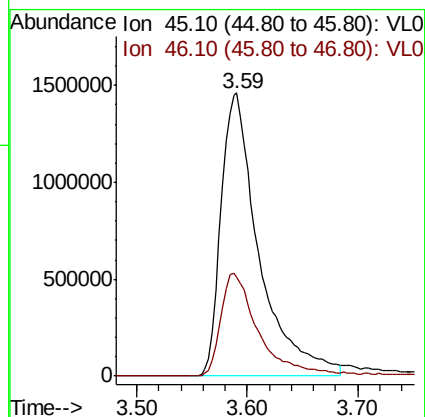
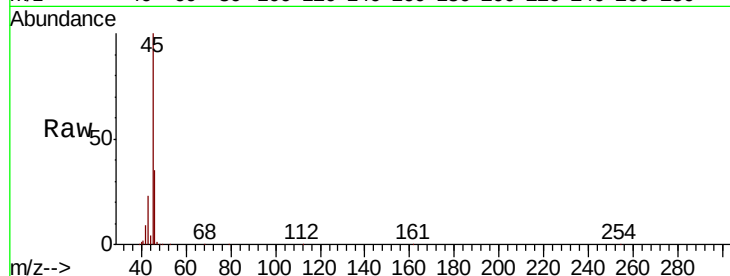
Acq: 23 May 2022 21:04

Tot Ion: 45 Resp: 3493823

Ion Ratio Lower Upper

45 100

46 37.8 18.0 72.2



#15

Acetone

Concen: 2.849 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL039093.D

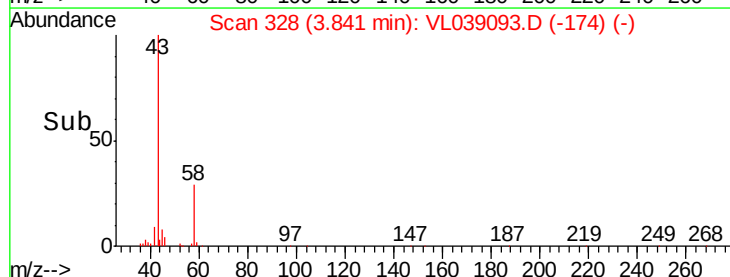
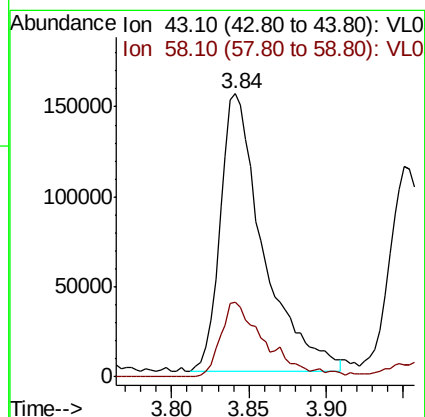
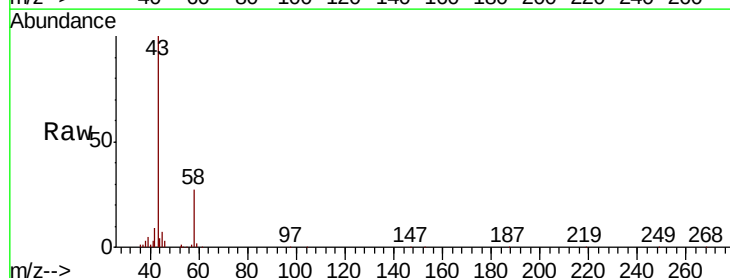
Acq: 23 May 2022 21:04

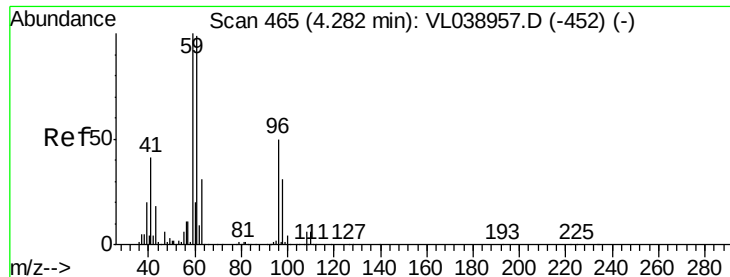
Tgt Ion: 43 Resp: 298955

Ion Ratio Lower Upper

43 100

58 28.2 21.3 31.9





#17

tert-Butyl alcohol

Concen: 0.055 ppbv

RT: 4.29 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AP-2DL

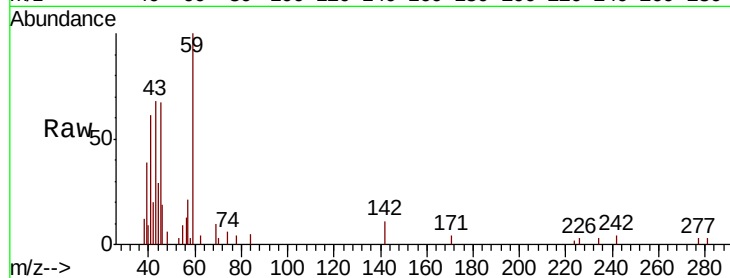
Acq: 23 May 2022 21:04

Tot Ion: 59 Resp: 4434

Ion Ratio Lower Upper

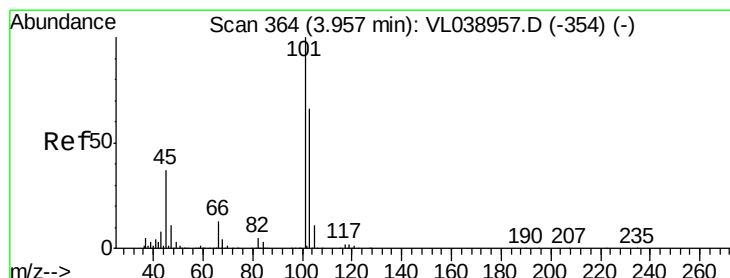
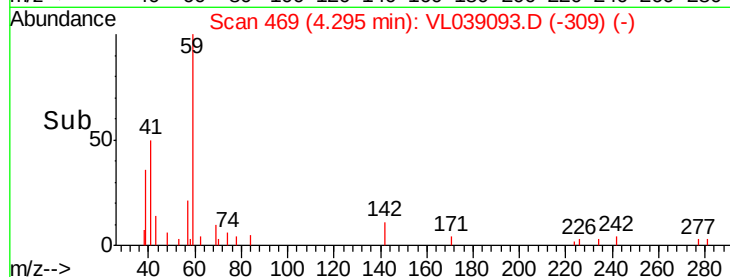
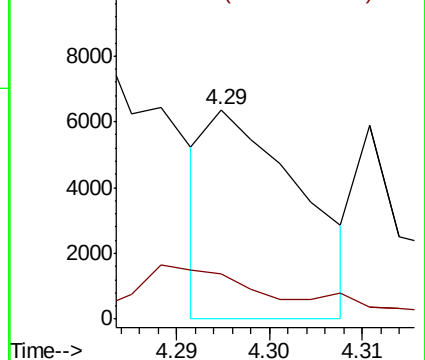
59 100

57 72.8 9.2 13.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 18.037 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL039093.D

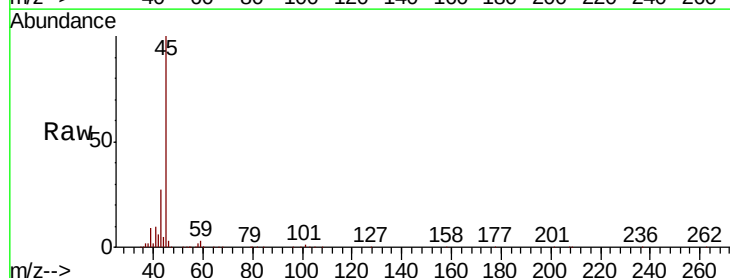
Acq: 23 May 2022 21:04

Tgt Ion: 45 Resp: 899997

Ion Ratio Lower Upper

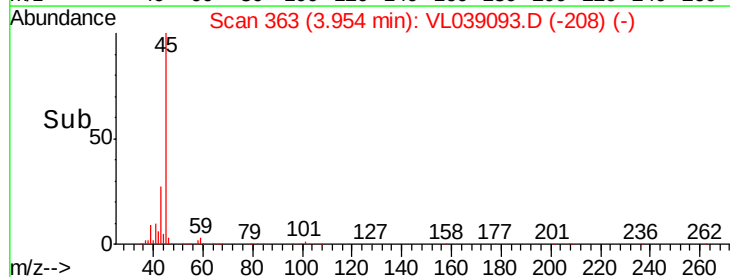
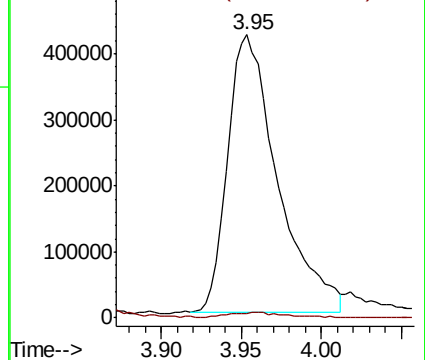
45 100

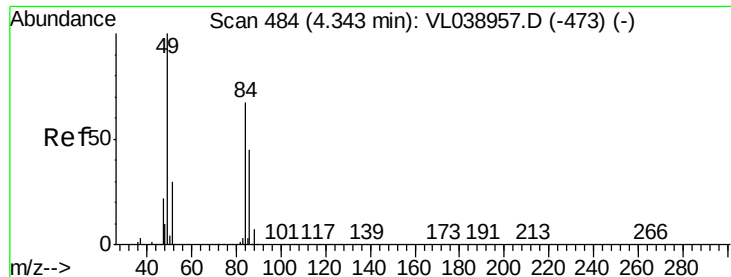
58 2.5 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

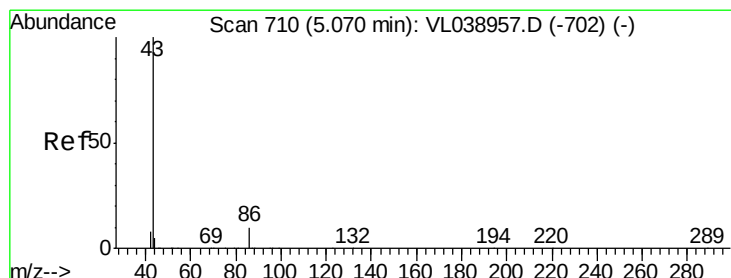
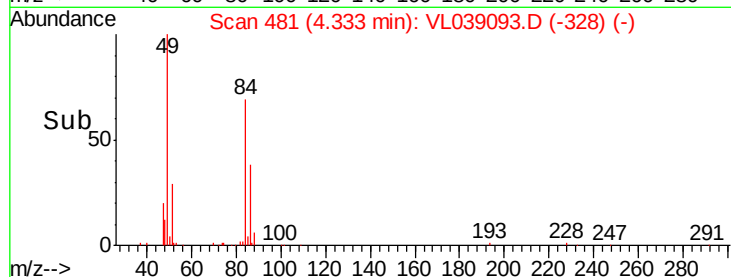
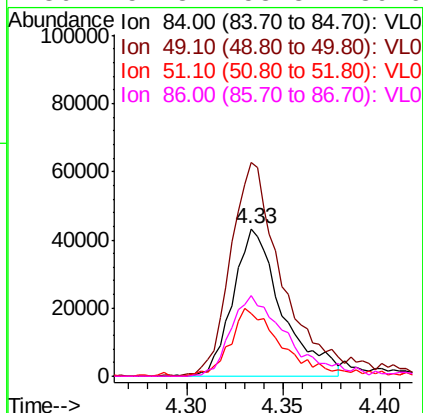
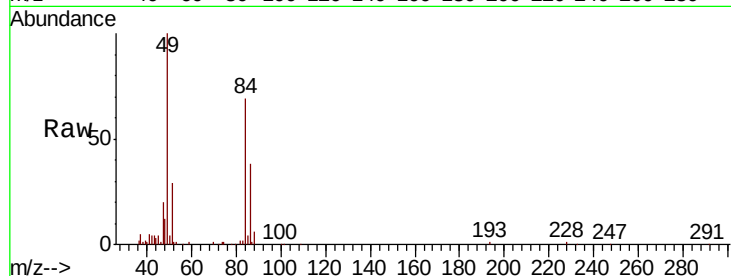
Ion 58.10 (57.80 to 58.80): VL0





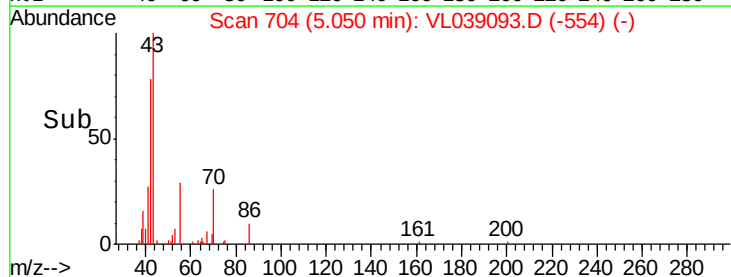
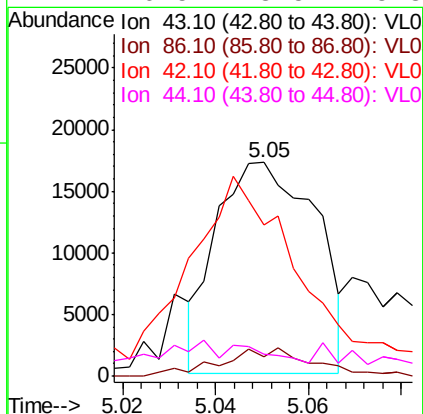
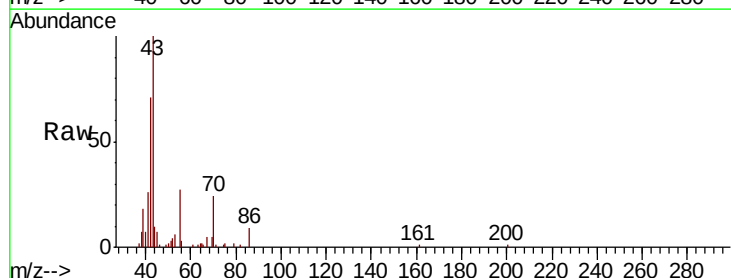
#20
Methvlene Chloride
Concen: 1.914 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 21:04

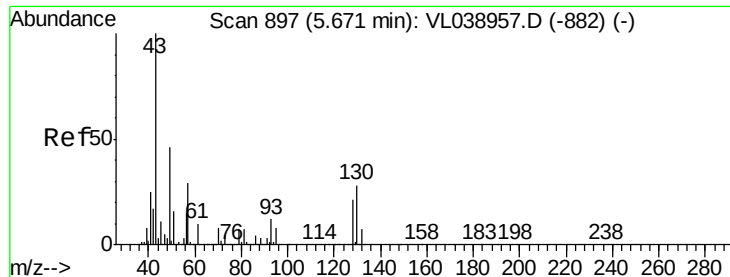
Tot Ion:	84	Resp:	75708
Ion	Ratio	Lower	Upper
84	100		
49	143.3	119.9	179.9
51	42.8	35.7	53.5
86	54.8	53.8	80.6



#23
Vinyl Acetate
Concen: 0.309 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.02 min
Lab File: VL039093.D
Acq: 23 May 2022 21:04

Tgt Ion:	43	Resp:	25667
Ion	Ratio	Lower	Upper
43	100		
86	11.0	6.6	9.8#
42	71.5	8.1	12.1#
44	6.5	3.5	5.3#





#25

Ethyl Acetate

Concen: 0.071 ppbv

RT: 5.66 Instrument:

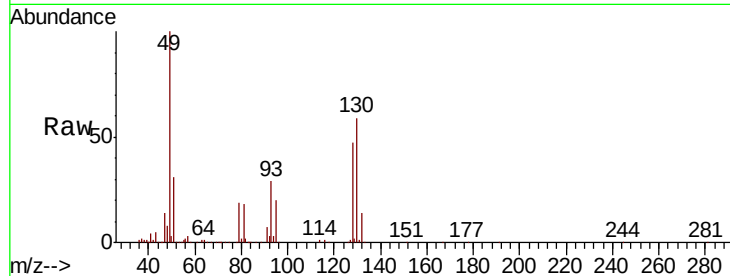
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

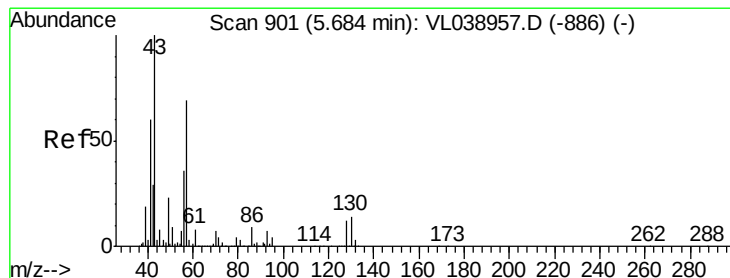
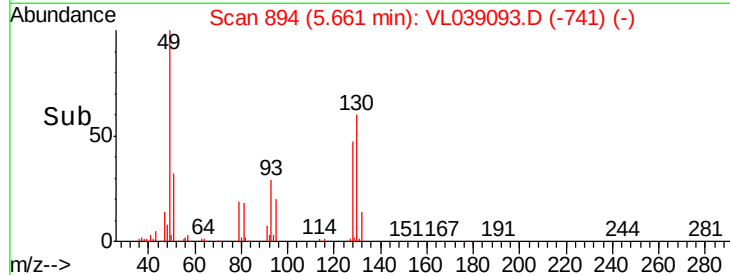
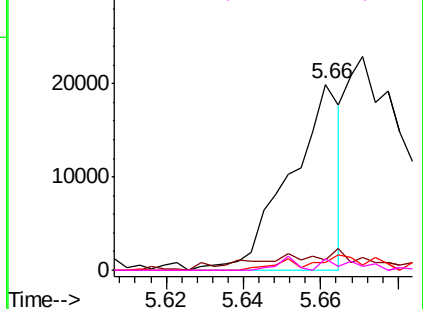
Acq: 23 May 2022 21:04

Tot Ion: 43 Resp: 17921

Ion	Ratio	Lower	Upper
43	100		
45	23.3	8.1	12.1#
61	12.4	7.8	11.6#
70	9.4	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: 0.368 ppbv

RT: 5.67 min Scan# 897

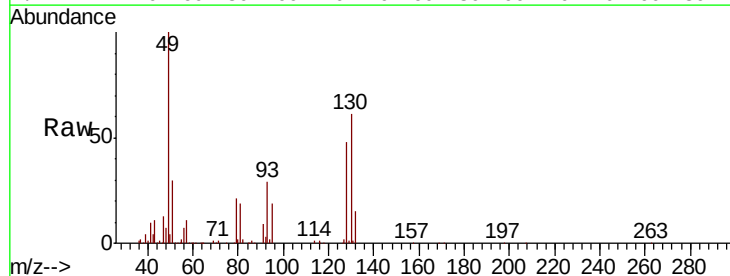
Delta R.T. -0.01 min

Lab File: VL039093.D

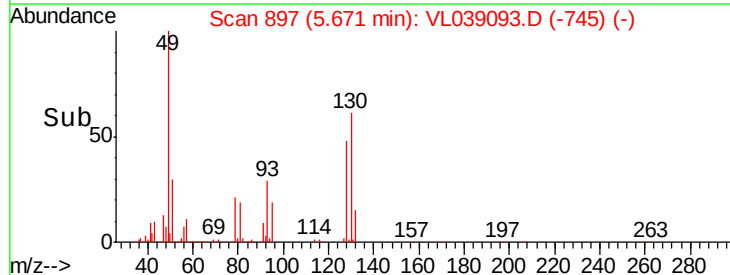
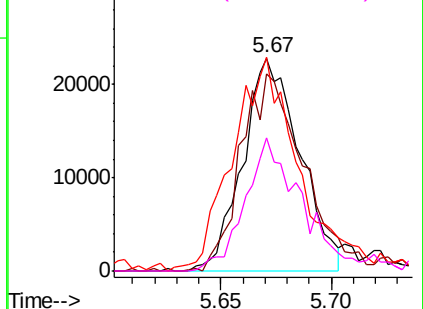
Acq: 23 May 2022 21:04

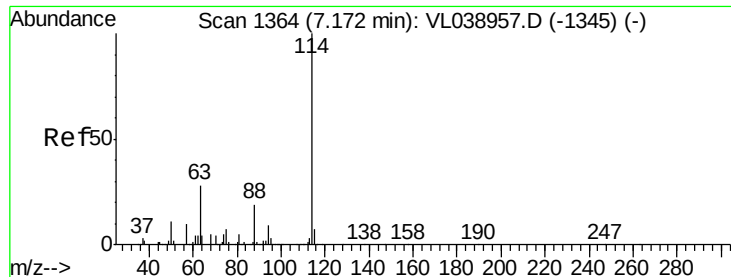
Tgt Ion: 57 Resp: 41051

Ion	Ratio	Lower	Upper
57	100		
41	106.5	75.2	112.8
43	121.9	190.8	286.2#
56	63.6	43.0	64.6



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: 7.16 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: AP-2DL

Acq: 23 May 2022 21:04

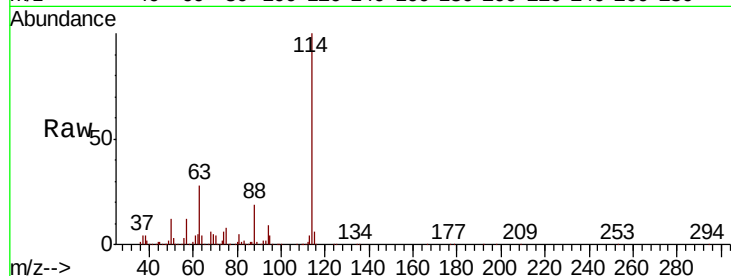
Tot Ion:114 Resp: 2548567

Ion Ratio Lower Upper

114 100

63 29.2 22.6 33.8

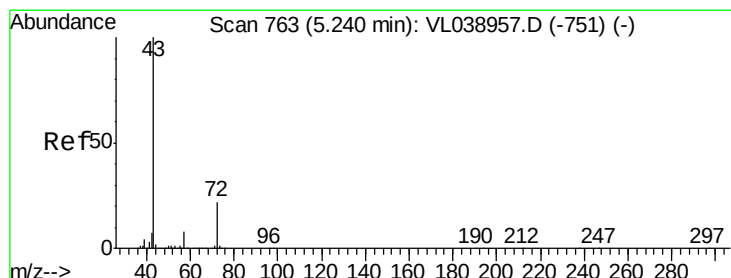
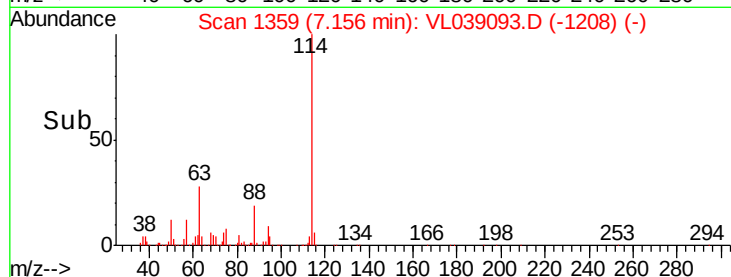
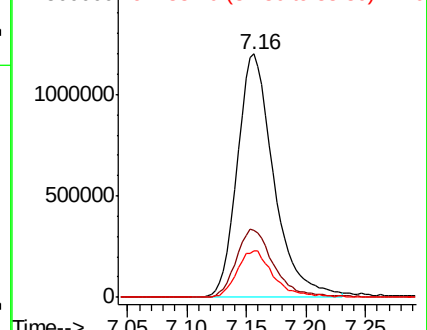
88 19.5 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.253 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL039093.D

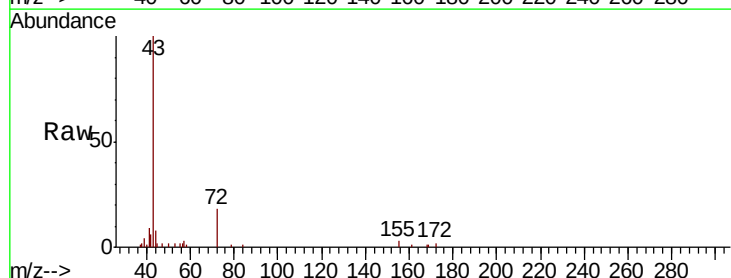
Acq: 23 May 2022 21:04

Tgt Ion: 43 Resp: 32892

Ion Ratio Lower Upper

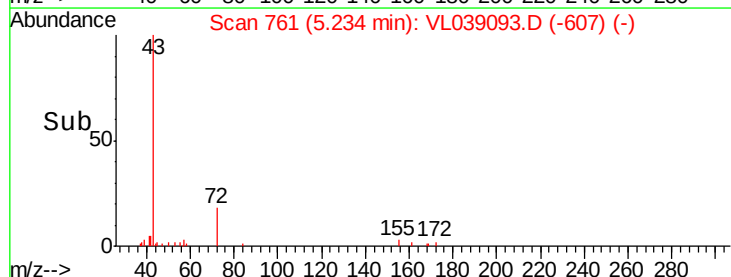
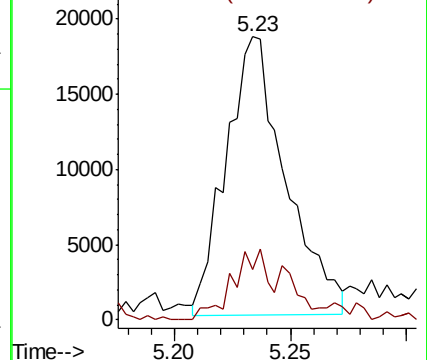
43 100

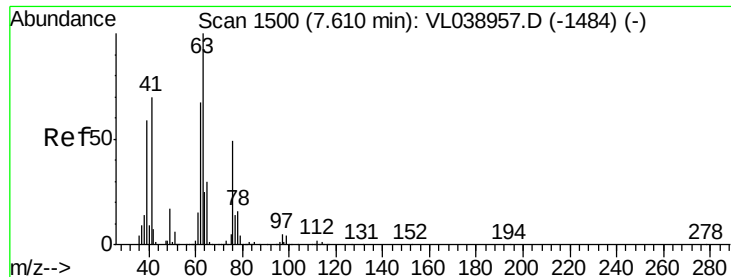
72 25.5 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.465 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 May 2022 21:04

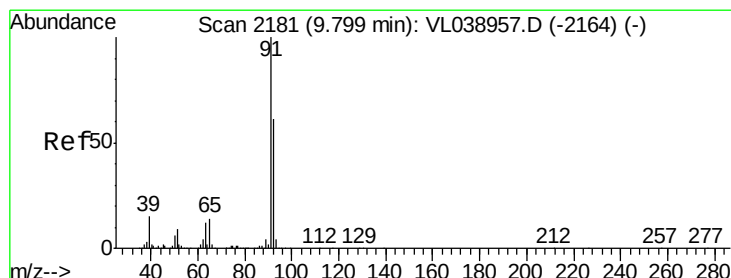
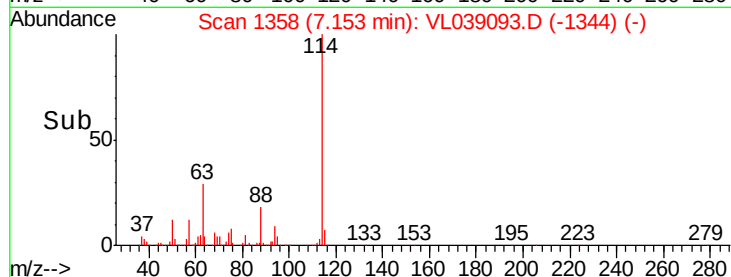
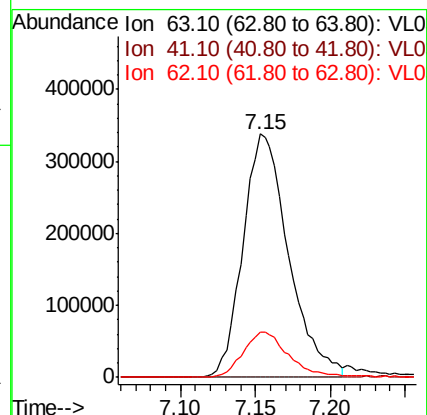
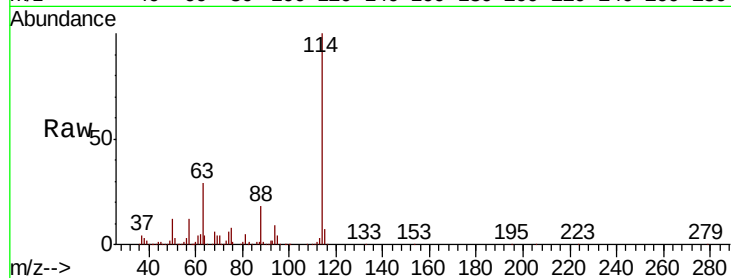
Tot Ion: 63 Resp: 718393

Ion Ratio Lower Upper

63 100

41 0.1 55.9 83.9#

62 18.5 53.8 80.6#



#53

Toluene

Concen: 0.039 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.02 min

Lab File: VL039093.D

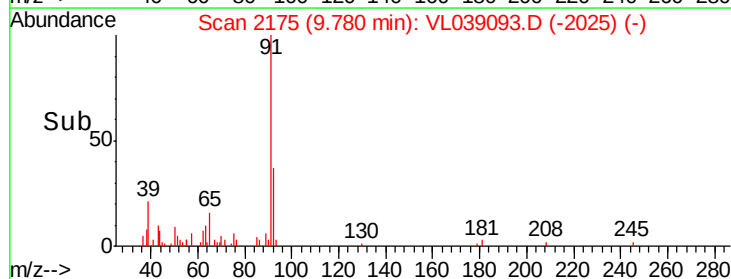
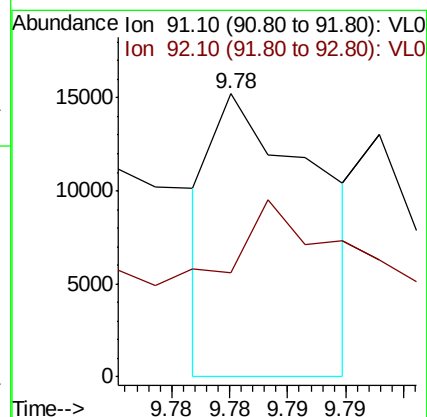
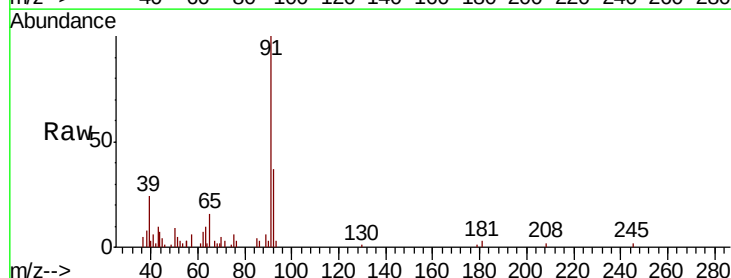
Acq: 23 May 2022 21:04

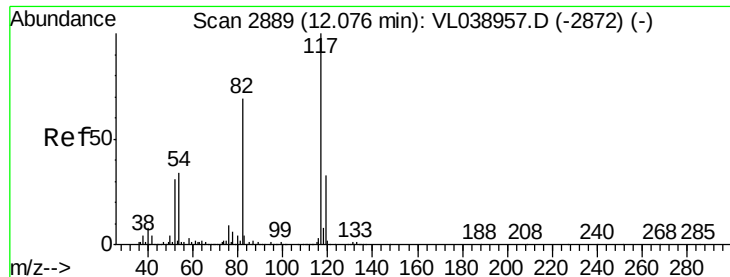
Tgt Ion: 91 Resp: 9485

Ion Ratio Lower Upper

91 100

92 188.3 48.2 72.2#

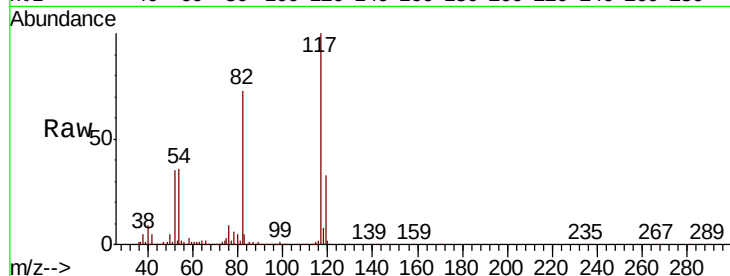




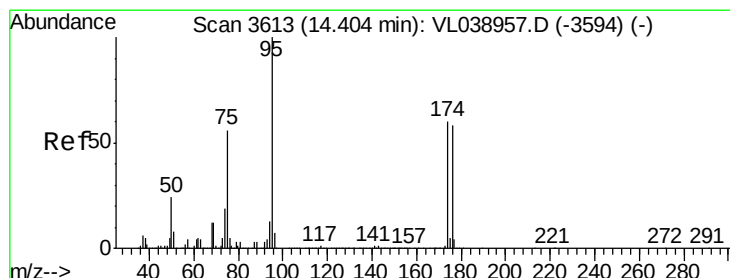
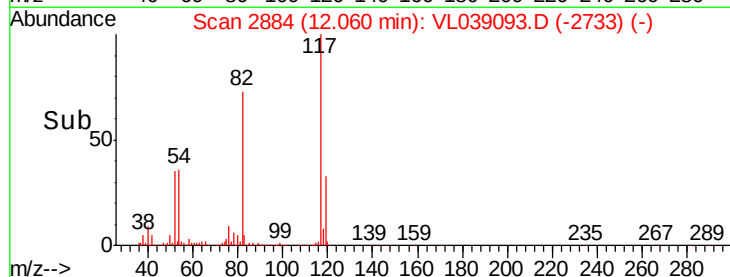
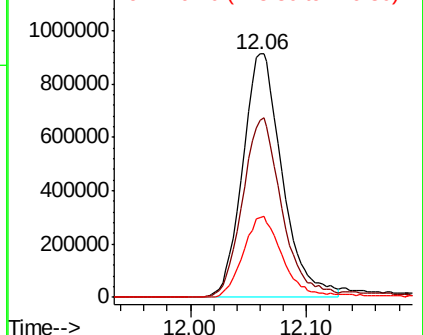
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 AP-2DL
 Acq: 23 May 2022 21:04

Tot Ion: 117 Resp: 2169272

Ion	Ratio	Lower	Upper
117	100		
82	76.8	57.0	85.6
119	34.2	27.2	40.8



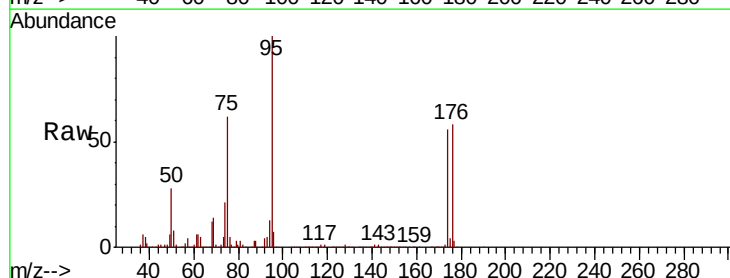
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.544 ppbv
 RT: 14.39 min Scan# 3608
 Delta R.T.: -0.02 min
 Lab File: VL039093.D
 Acq: 23 May 2022 21:04

Tgt Ion: 95 Resp: 1811366

Ion	Ratio	Lower	Upper
95	100		
174	62.5	50.8	76.2
175	4.6	3.8	5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

