

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039369.D
 Acq On : 27 Jun 2022 21:46
 Operator : SY/AP
 Sample : N3453-08
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Quant Time: Jun 28 02:39:11 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1172432	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3283153	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2842254	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2147073	9.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.40%

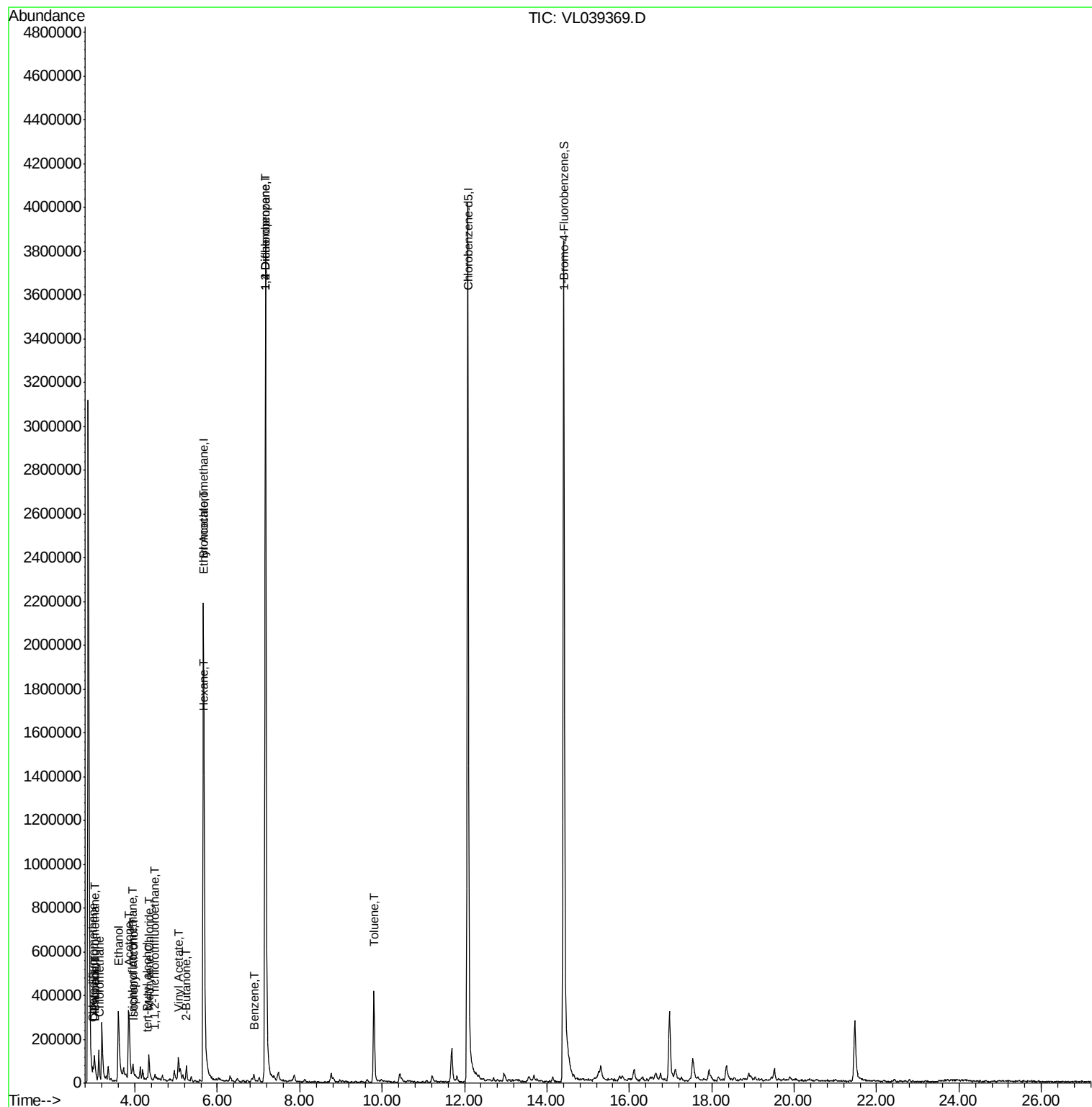
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	31043	0.151 ppbv	97
3) Chlorodifluoromethane	2.98	51	76385	0.512 ppbv #	86
4) Chloromethane	3.14	50	13121	0.171 ppbv	90
9) Propene	3.01	41	19555	0.301 ppbv #	69
11) Trichlorofluoromethane	3.94	101	20703	0.111 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.48	101	3947	0.032 ppbv #	1
13) Ethanol	3.60	45	523469	147.565 ppbv #	100
15) Acetone	3.84	43	424816	3.478 ppbv	92
17) tert-Butyl alcohol	4.29	59	6812	0.072 ppbv #	76
19) Isopropyl Alcohol	3.96	45	12675	0.221 ppbv #	1
20) Methylene Chloride	4.34	84	42546	0.827 ppbv	97
23) Vinyl Acetate	5.06	43	118093	1.169 ppbv #	85
25) Ethyl Acetate	5.68	43	101386	0.368 ppbv #	79
26) Hexane	5.69	57	81903	0.677 ppbv #	1
34) 2-Butanone	5.25	43	89599	0.502 ppbv	92
36) Benzene	6.89	78	16764	0.063 ppbv #	90
39) 1,2-Dichloropropane	7.17	63	815239	7.689 ppbv #	24
53) Toluene	9.80	91	162056	0.528 ppbv #	21

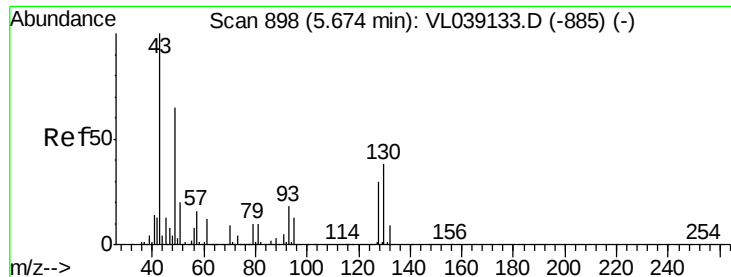
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 27 Jun 2022 21:46

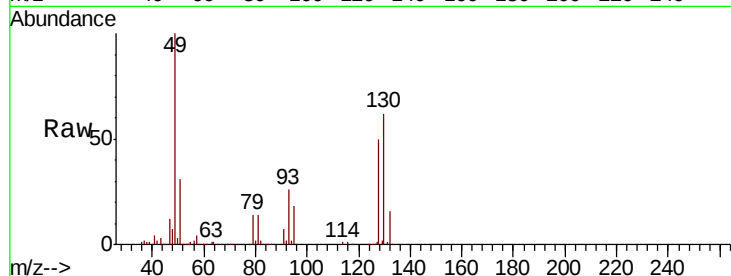
Tot Ion: 49 Resp: 1172432

Ion Ratio Lower Upper

49 100

128 52.8 24.7 74.1

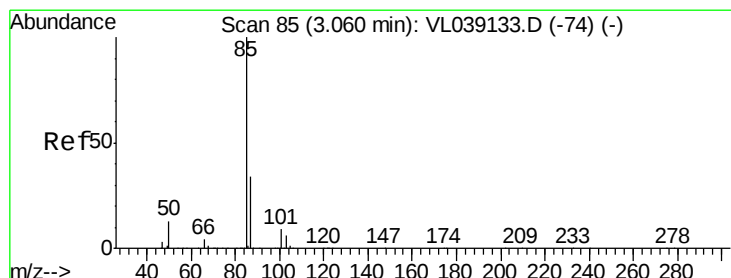
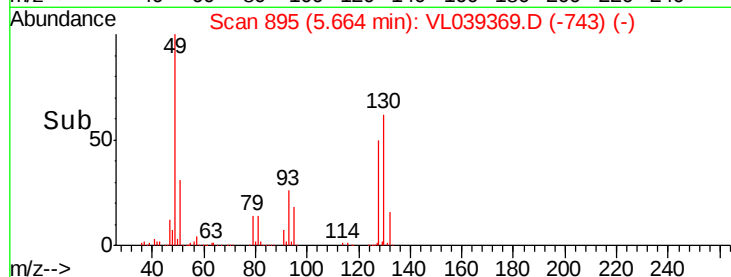
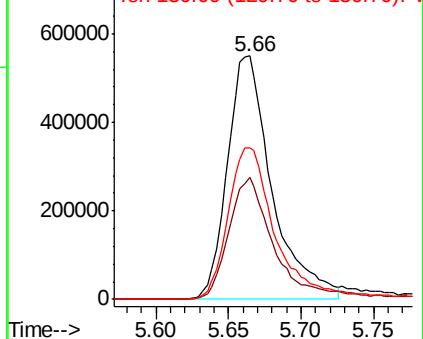
130 68.9 31.4 94.0



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: 0.151 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL039369.D

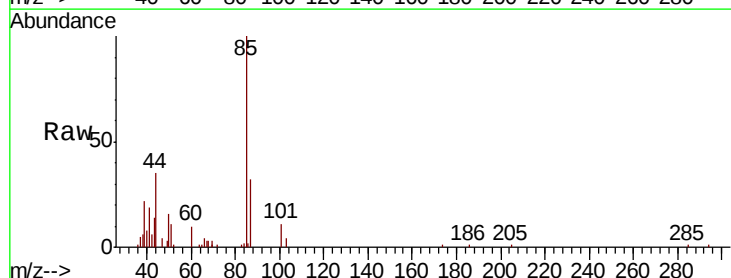
Acq: 27 Jun 2022 21:46

Tgt Ion: 85 Resp: 31043

Ion Ratio Lower Upper

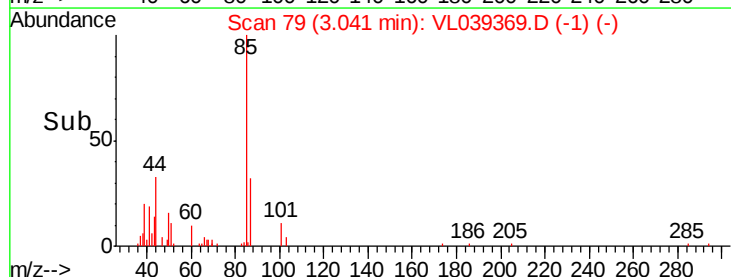
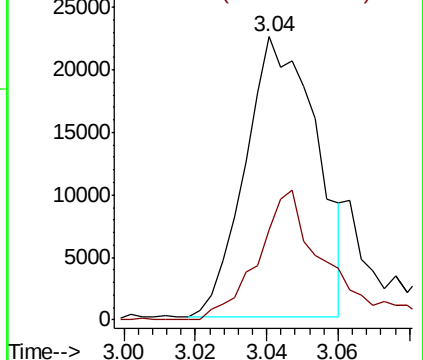
85 100

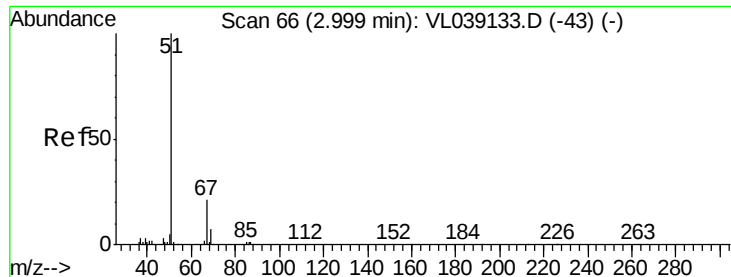
87 32.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.512 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

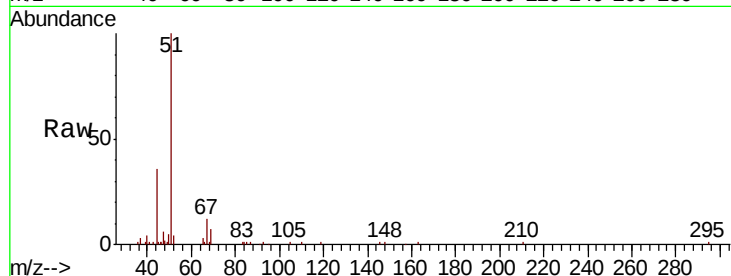
Acq: 27 Jun 2022 21:48

Tot Ion: 51 Resp: 76385

Ion Ratio Lower Upper

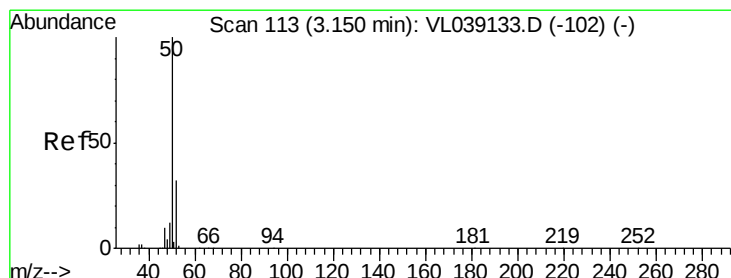
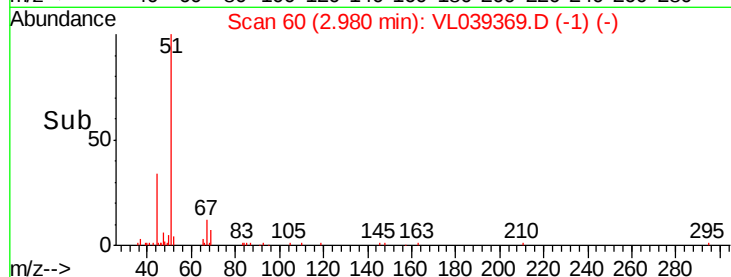
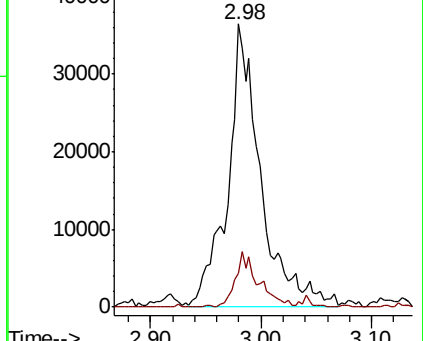
51 100

67 13.6 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.171 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL039369.D

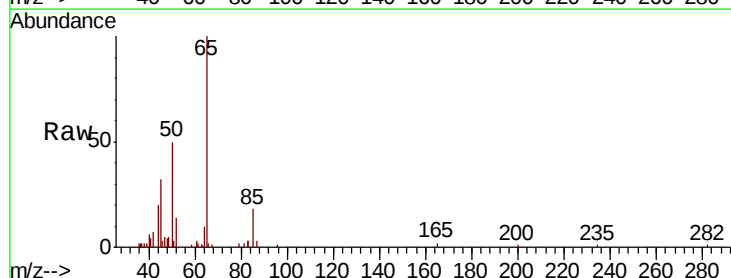
Acq: 27 Jun 2022 21:46

Tgt Ion: 50 Resp: 13121

Ion Ratio Lower Upper

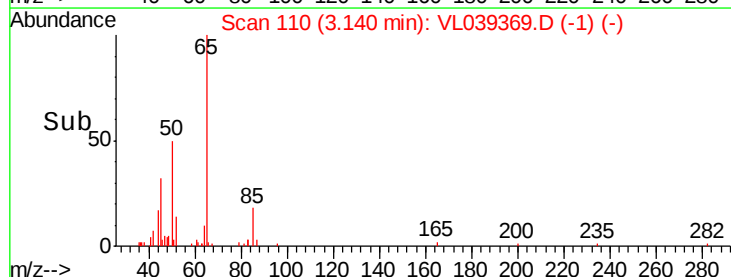
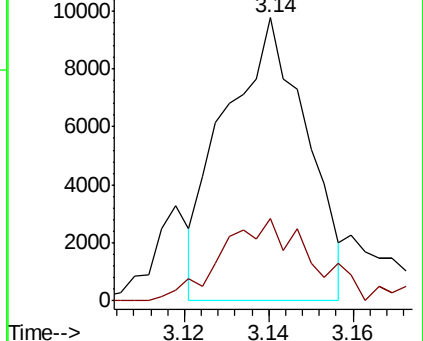
50 100

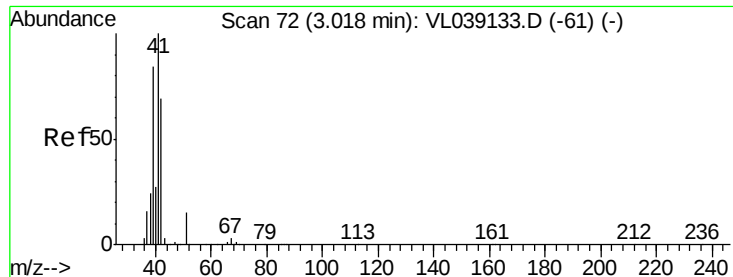
52 26.6 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.301 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

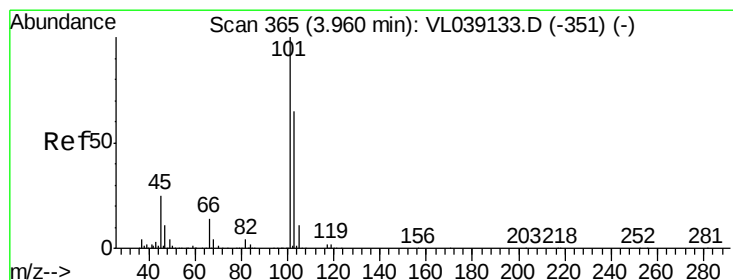
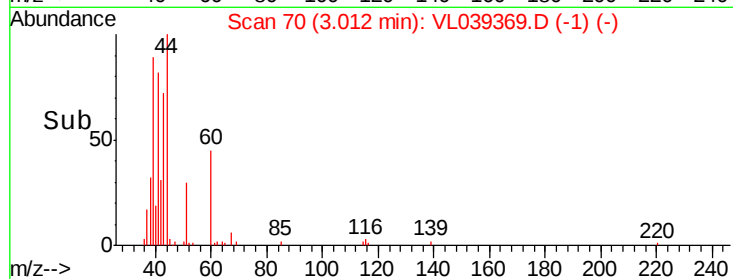
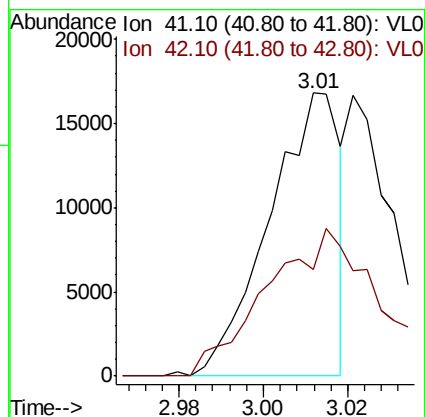
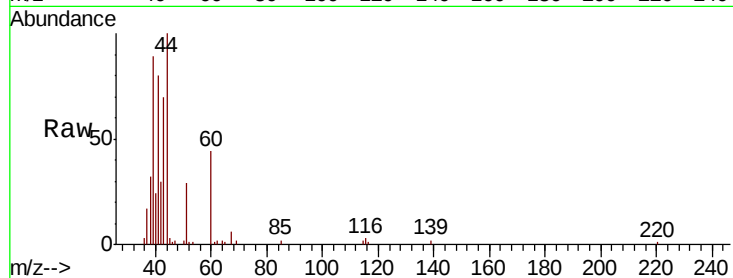
Acq: 27 Jun 2022 21:48

Tot Ion: 41 Resp: 19555

Ion Ratio Lower Upper

41 100

42 94.7 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.111 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.02 min

Lab File: VL039369.D

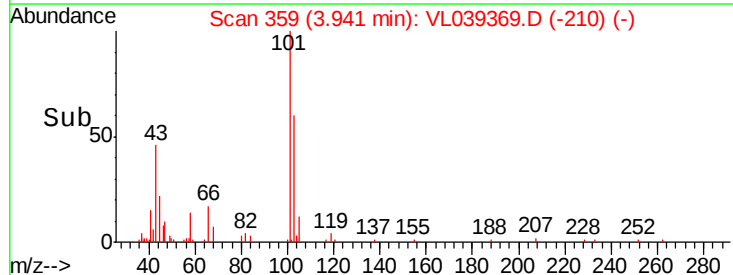
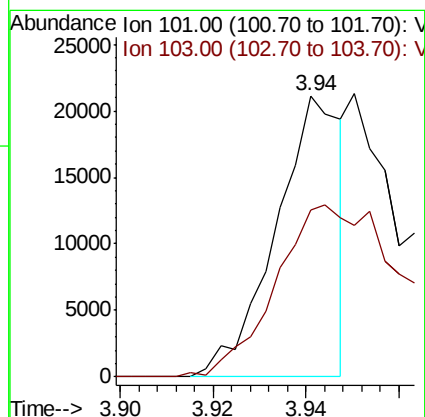
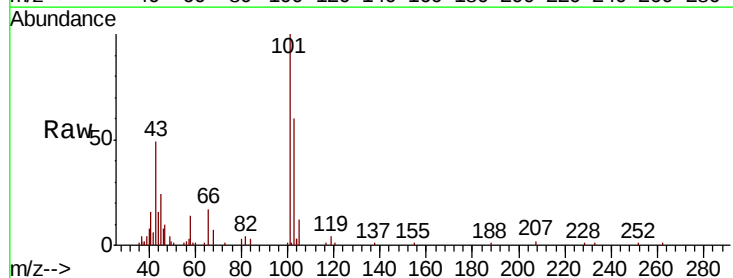
Acq: 27 Jun 2022 21:46

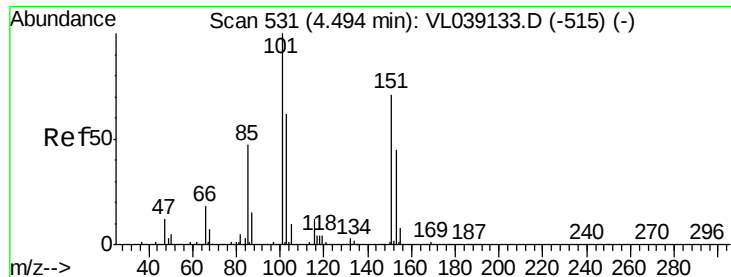
Tgt Ion: 101 Resp: 20703

Ion Ratio Lower Upper

101 100

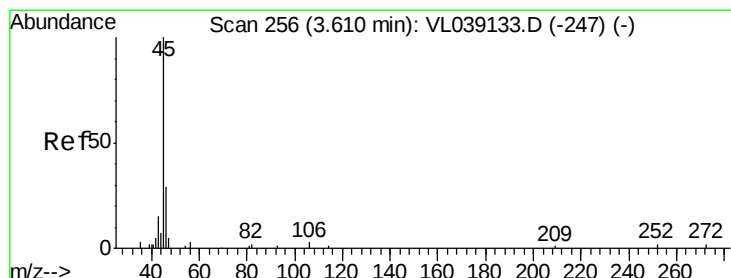
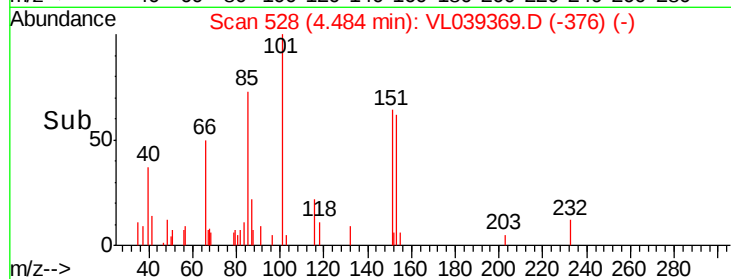
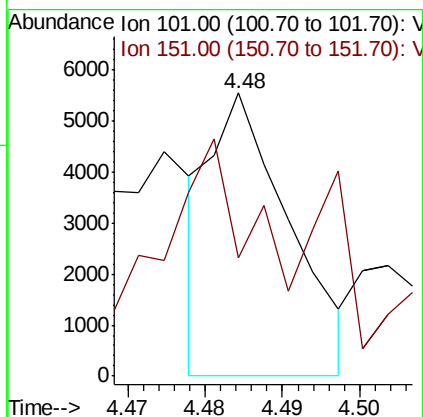
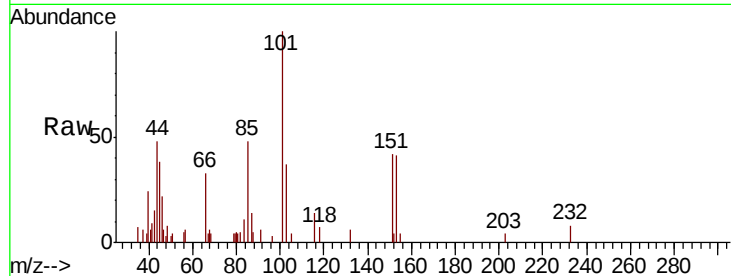
103 58.2 51.7 77.5





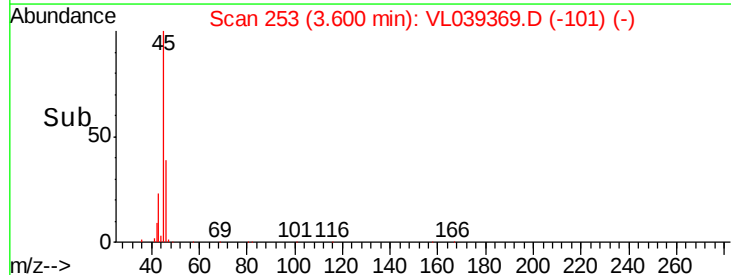
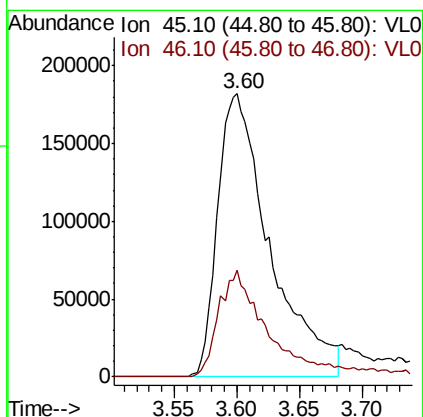
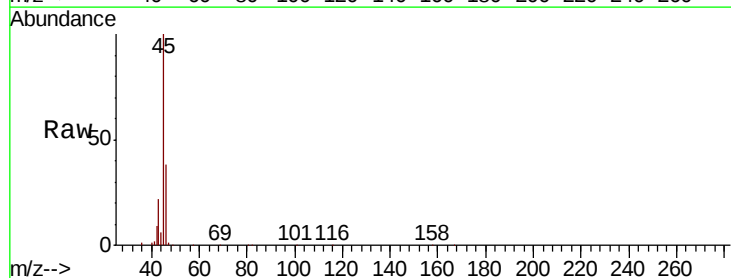
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.032 ppbv
 RT: 4.48
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 21:48

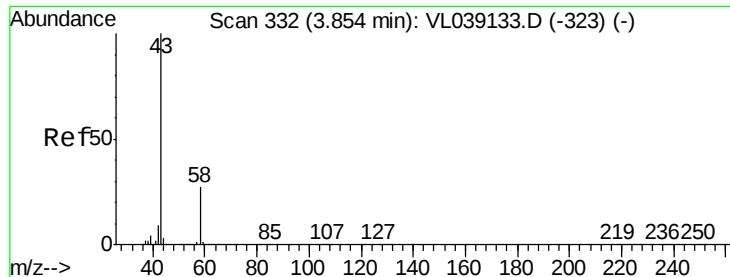
Tot Ion: 101 Resp: 3947
 Ion Ratio Lower Upper
 101 100
 151 198.1 59.4 89.0#



#13
 Ethanol
 Concen: 147.565 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL039369.D
 Acq: 27 Jun 2022 21:46

Tgt Ion: 45 Resp: 523469
 Ion Ratio Lower Upper
 45 100
 46 36.9 0.0 0.0#





#15

Acetone

Concen: 3.478 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

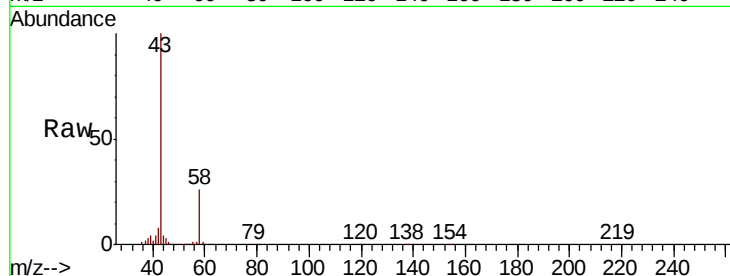
Acq: 27 Jun 2022 21:48

Tot Ion: 43 Resp: 424816

Ion Ratio Lower Upper

43 100

58 32.4 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

200000

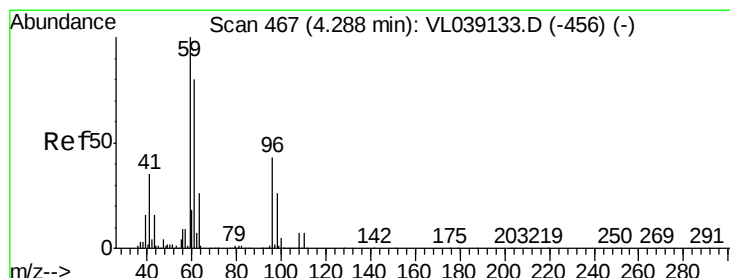
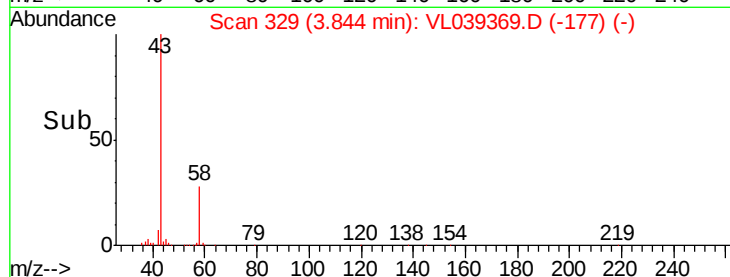
150000

100000

50000

0

Time-->



#17

tert-Butyl alcohol

Concen: 0.072 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL039369.D

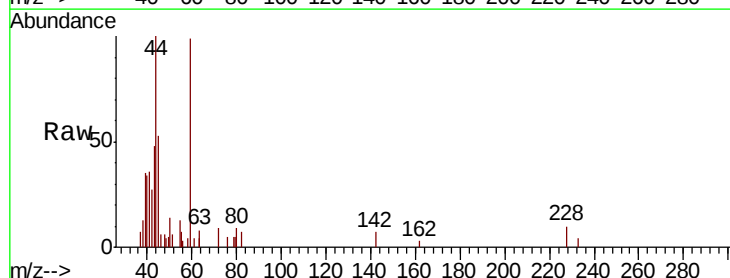
Acq: 27 Jun 2022 21:46

Tgt Ion: 59 Resp: 6812

Ion Ratio Lower Upper

59 100

57 20.4 9.1 13.7#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

5000

4000

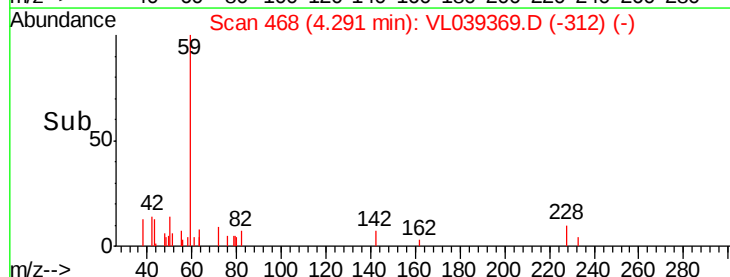
3000

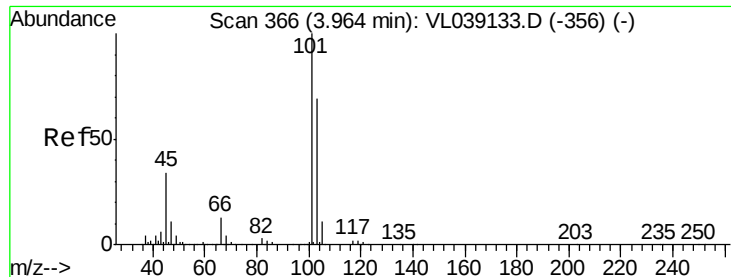
2000

1000

0

Time-->





#19

Isopropyl Alcohol

Concen: 0.221 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

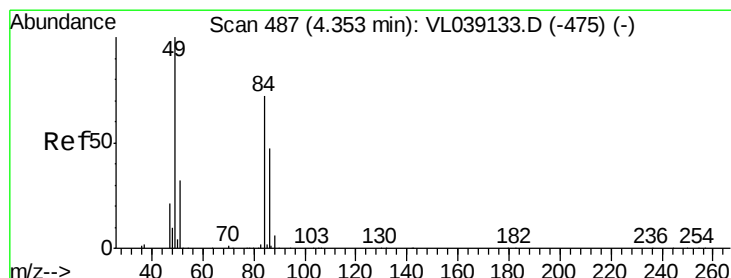
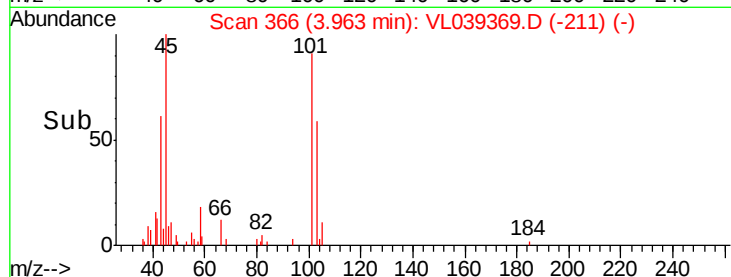
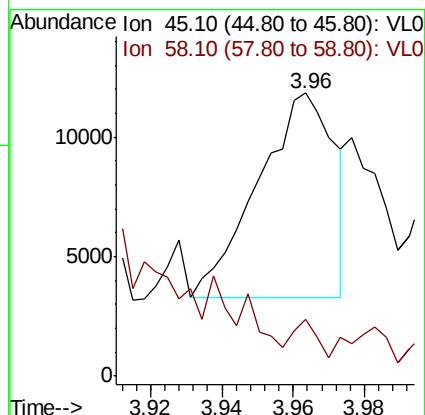
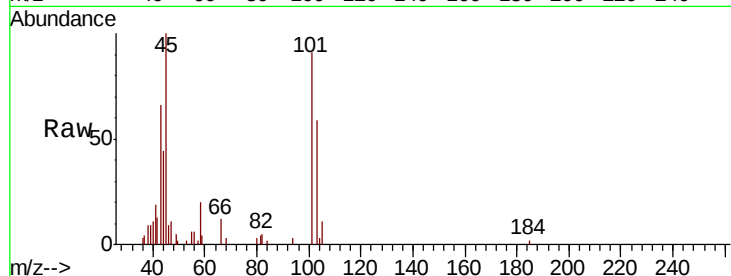
Acq: 27 Jun 2022 21:48

Tot Ion: 45 Resp: 12675

Ion Ratio Lower Upper

45 100

58 1101.6 1.8 2.8#



#20

Methylene Chloride

Concen: 0.827 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.02 min

Lab File: VL039369.D

Acq: 27 Jun 2022 21:46

Tgt Ion: 84 Resp: 42546

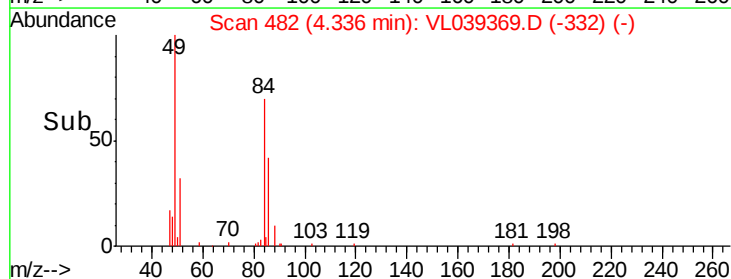
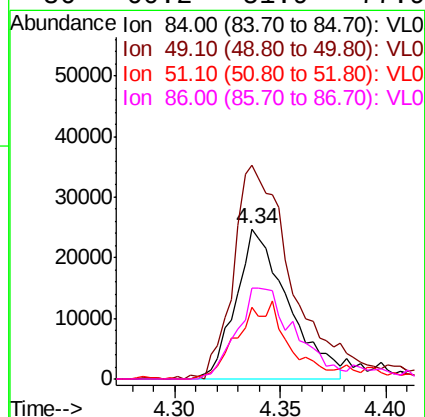
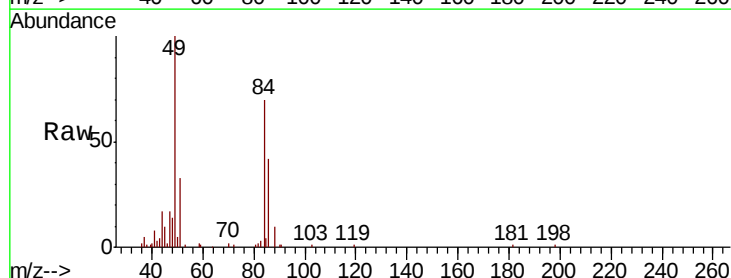
Ion Ratio Lower Upper

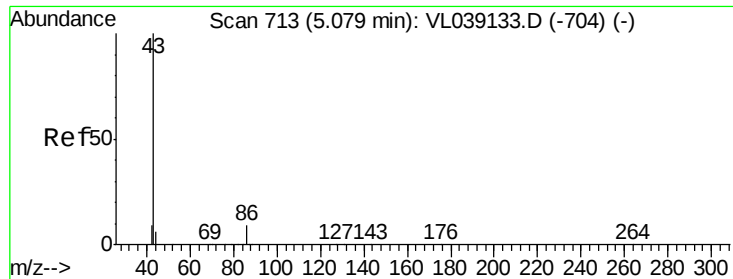
84 100

49 139.9 111.1 166.7

51 47.6 35.3 52.9

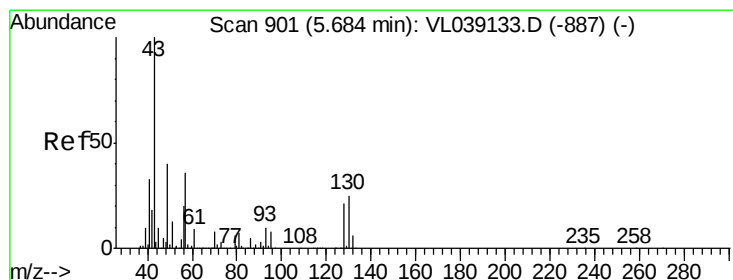
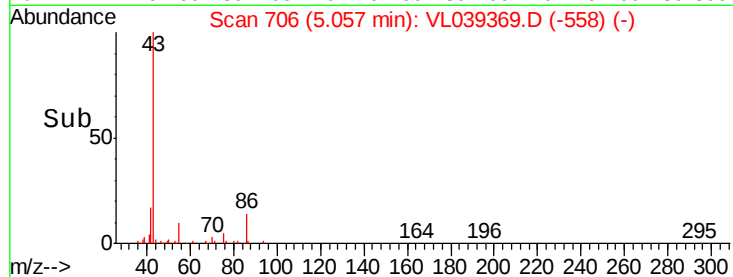
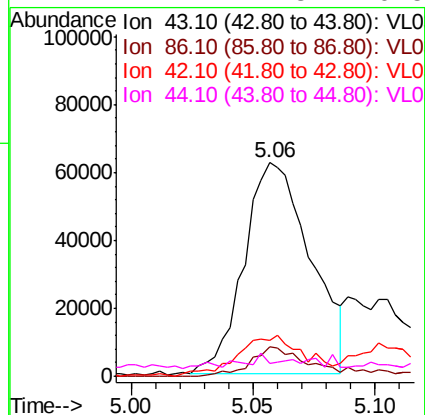
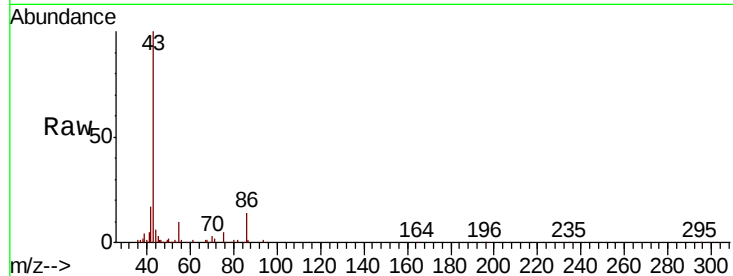
86 60.2 51.9 77.9





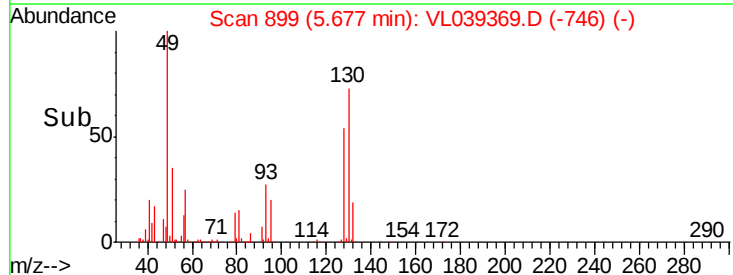
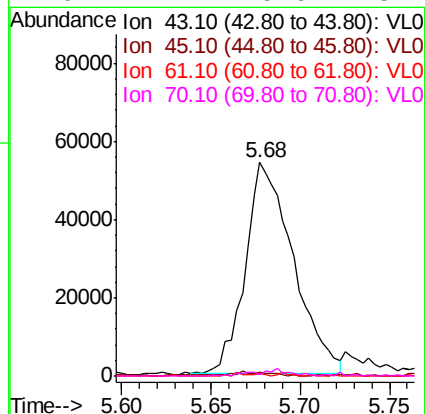
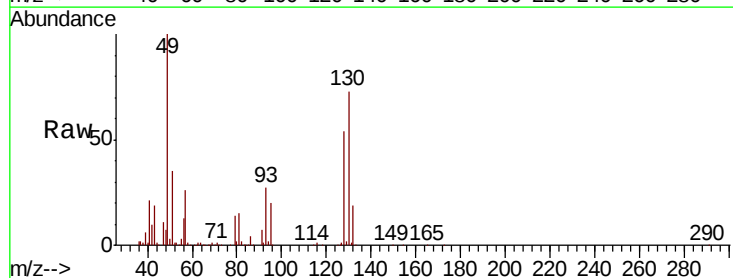
#23
 Vinyl Acetate
 Concen: 1.169 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 21:46

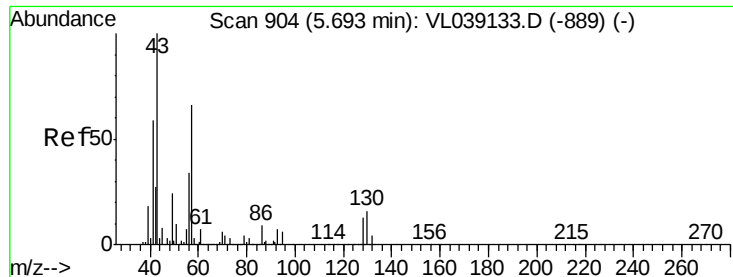
Tot Ion:	43	Resp:	118093
Ion	Ratio	Lower	Upper
43	100		
86	15.1	6.0	9.0#
42	14.9	8.2	12.4#
44	2.1	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.368 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VL039369.D
 Acq: 27 Jun 2022 21:46

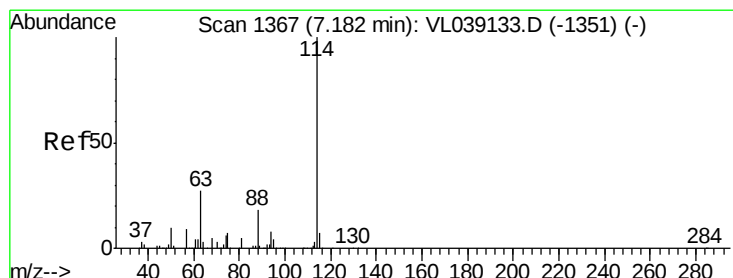
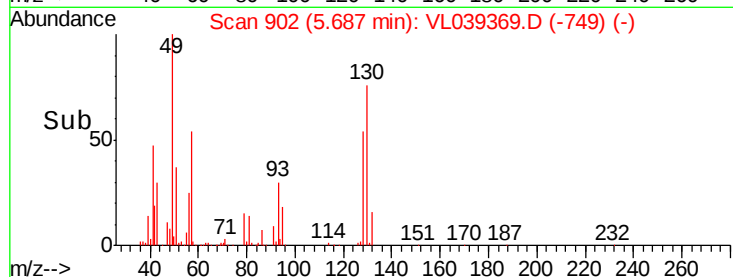
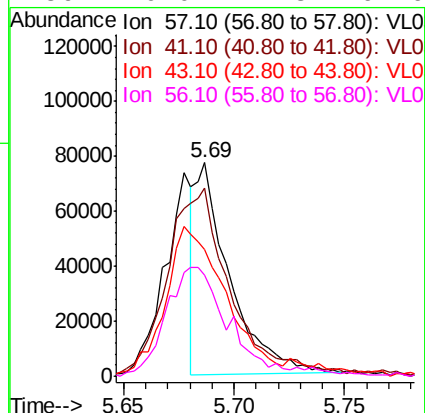
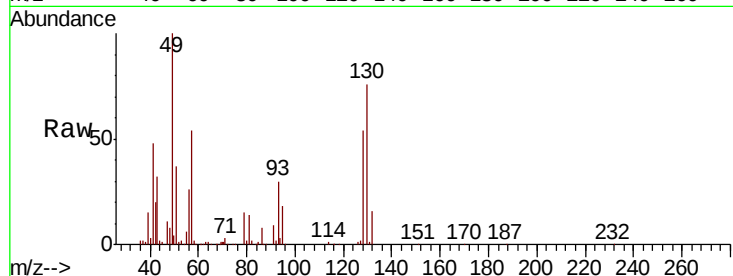
Tgt Ion:	43	Resp:	101386
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.2	12.2#
61	1.2	8.4	12.6#
70	2.7	5.6	8.4#





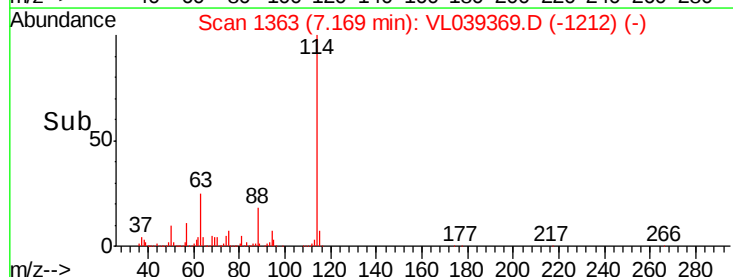
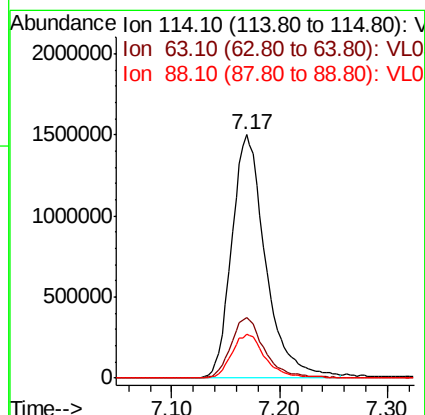
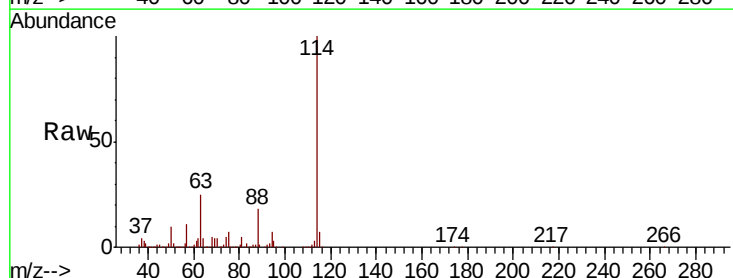
#26
Hexane
Concen: 0.677 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jun 2022 21:46

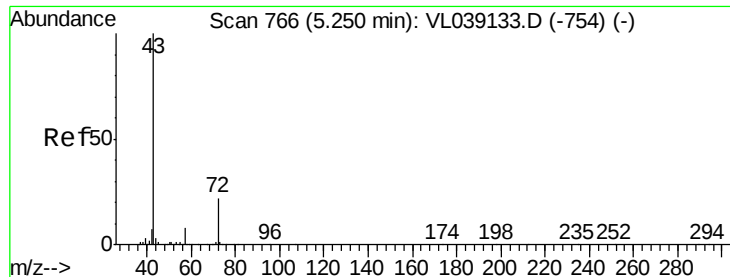
Tot Ion:	57	Resp:	81903
Ion	Ratio	Lower	Upper
57	100		
41	171.1	72.4	108.6#
43	0.0	187.0	280.6#
56	0.0	41.8	62.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL039369.D
Acq: 27 Jun 2022 21:46

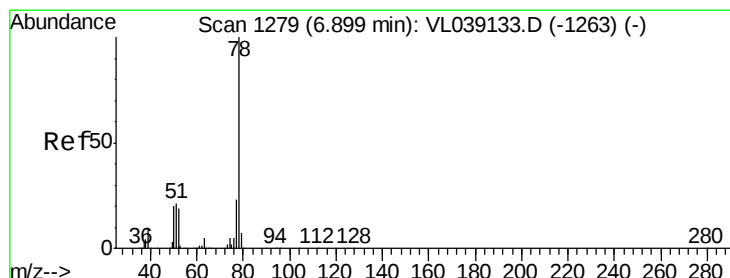
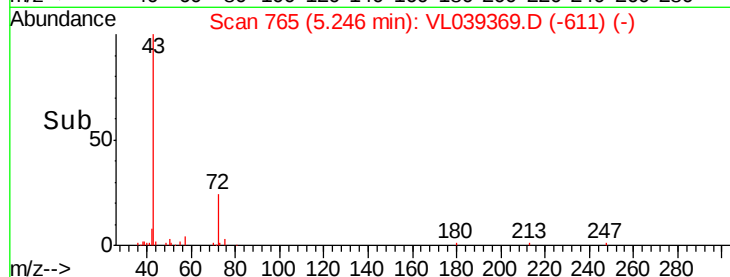
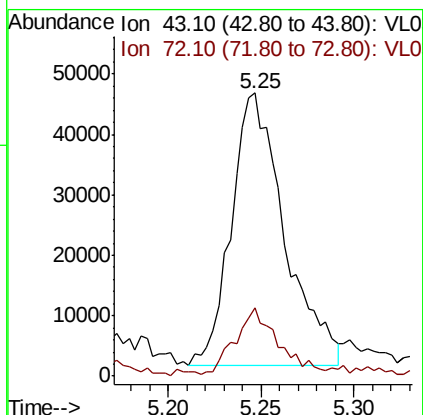
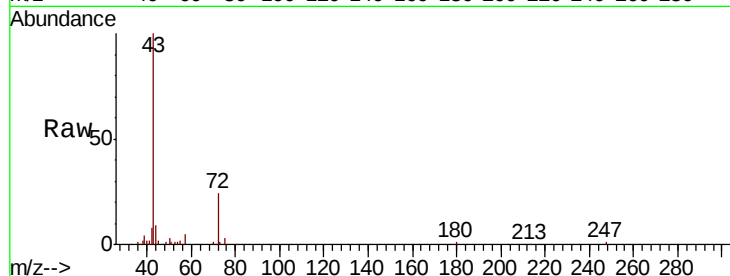
Tgt Ion:	114	Resp:	3283153
Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.7	32.5
88	18.2	14.8	22.2





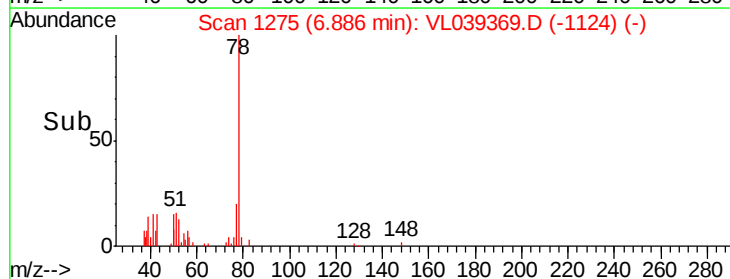
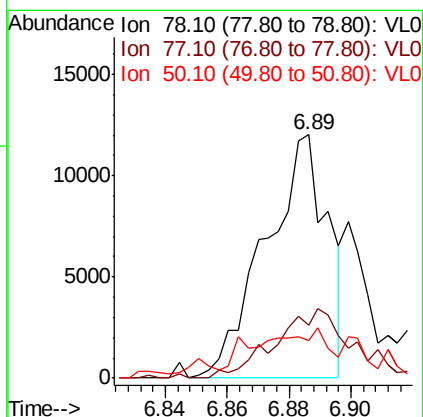
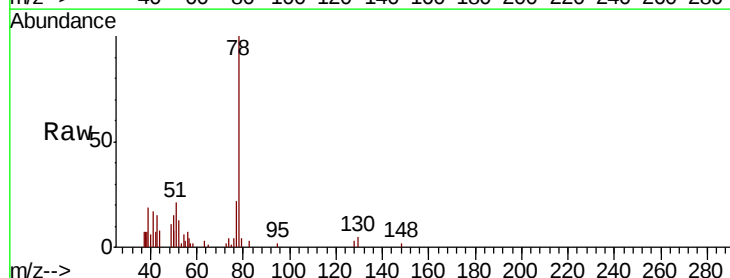
#34
 2-Butanone
 Concen: 0.502 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 21:48

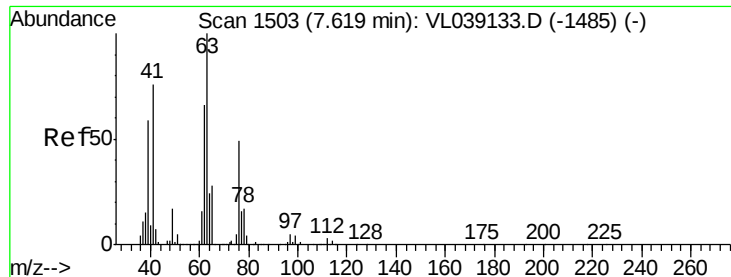
Tot Ion: 43 Resp: 89599
 Ion Ratio Lower Upper
 43 100
 72 26.4 18.2 27.2



#36
 Benzene
 Concen: 0.063 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: VL039369.D
 Acq: 27 Jun 2022 21:46

Tgt Ion: 78 Resp: 16764
 Ion Ratio Lower Upper
 78 100
 77 21.9 18.6 27.8
 50 10.7 15.8 23.8#





#39

1,2-Dichloropropane

Concen: 7.689 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jun 2022 21:48

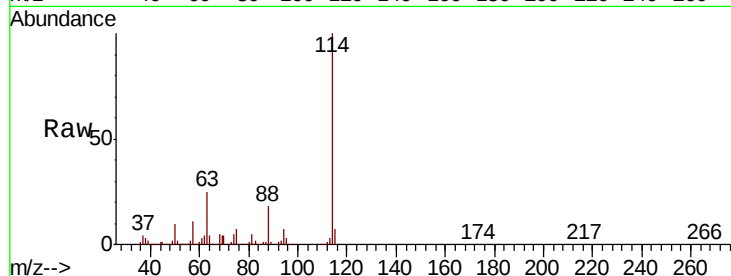
Tot Ion: 63 Resp: 815239

Ion Ratio Lower Upper

63 100

41 0.0 60.8 91.2#

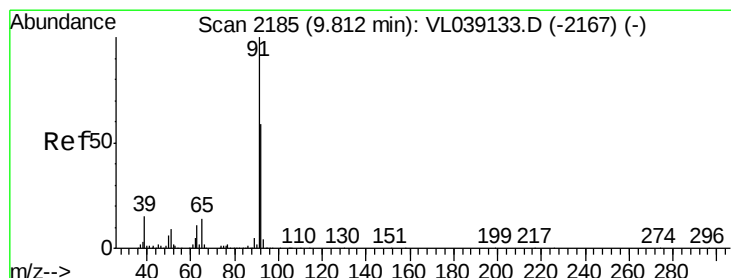
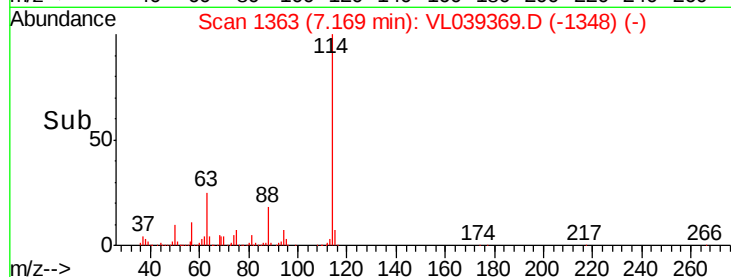
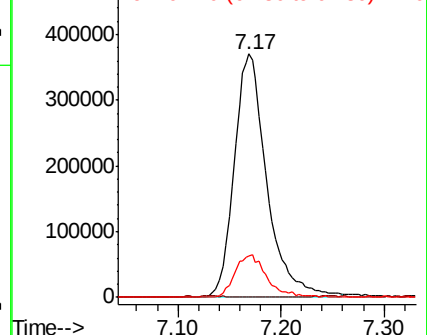
62 17.3 52.9 79.3#



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: 0.528 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL039369.D

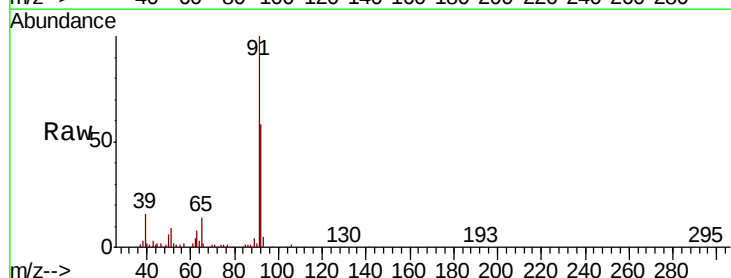
Acq: 27 Jun 2022 21:46

Tgt Ion: 91 Resp: 162056

Ion Ratio Lower Upper

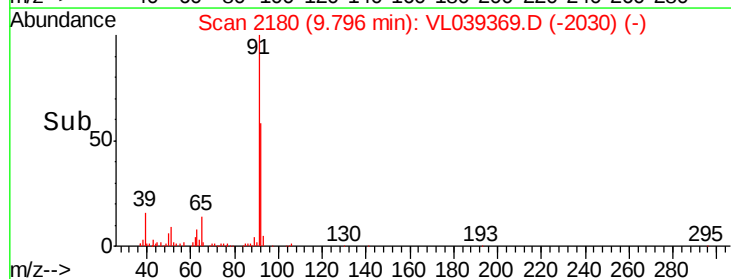
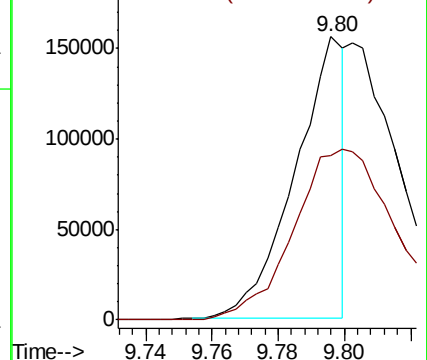
91 100

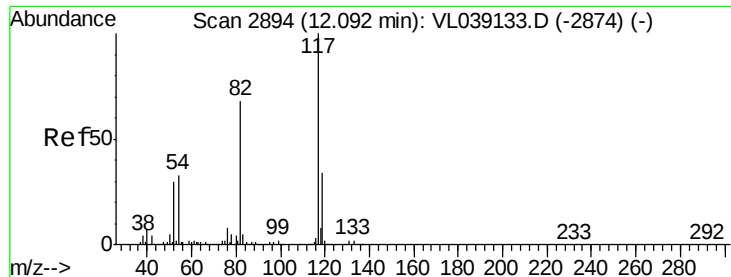
92 0.0 48.1 72.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

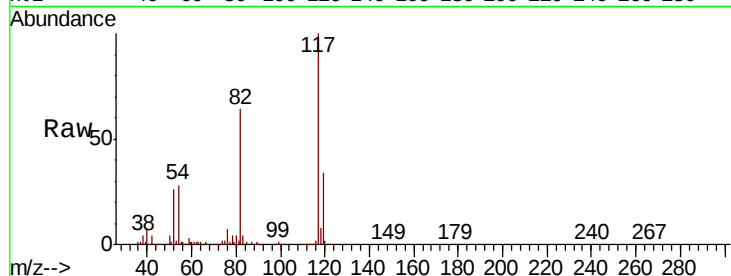




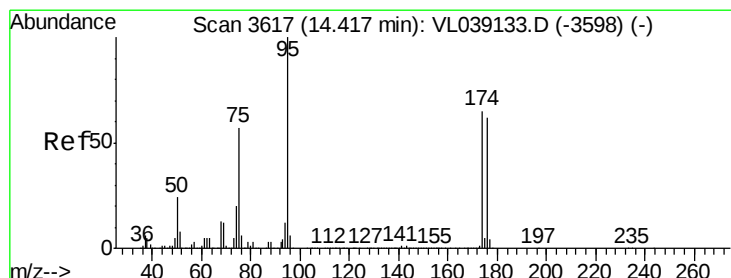
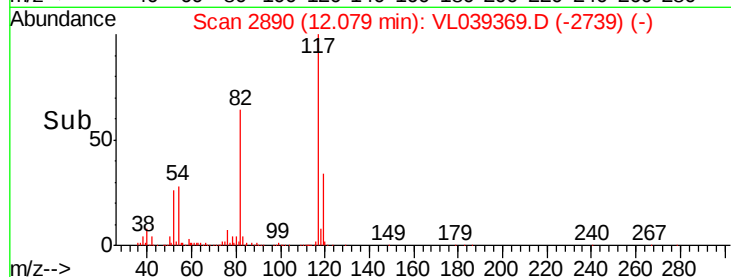
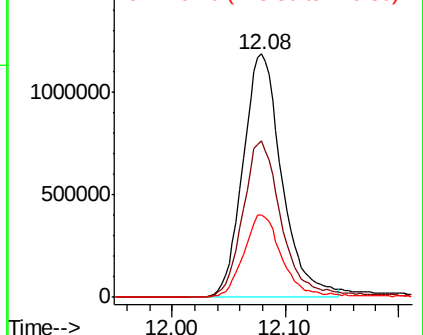
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 21:48

Tot Ion: 117 Resp: 2842254

Ion	Ratio	Lower	Upper
117	100		
82	65.6	55.1	82.7
119	34.3	24.7	37.1



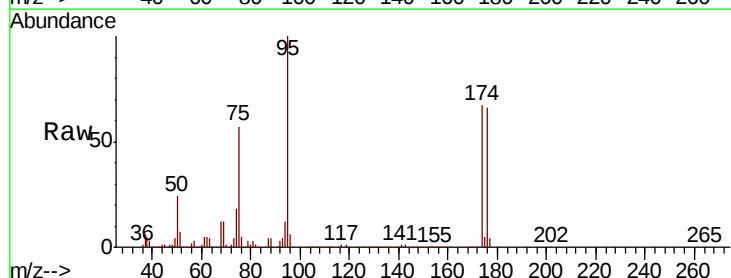
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.137 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T.: -0.01 min
 Lab File: VL039369.D
 Acq: 27 Jun 2022 21:46

Tgt Ion: 95 Resp: 2147073

Ion	Ratio	Lower	Upper
95	100		
174	71.2	53.8	80.8
175	4.9	4.1	6.1



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

