

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039371.D
 Acq On : 27 Jun 2022 23:11
 Operator : SY/AP
 Sample : N3453-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Jun 28 02:39:34 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	5.67	49	1016262	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3014808	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2660007	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1951206	8.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.70%

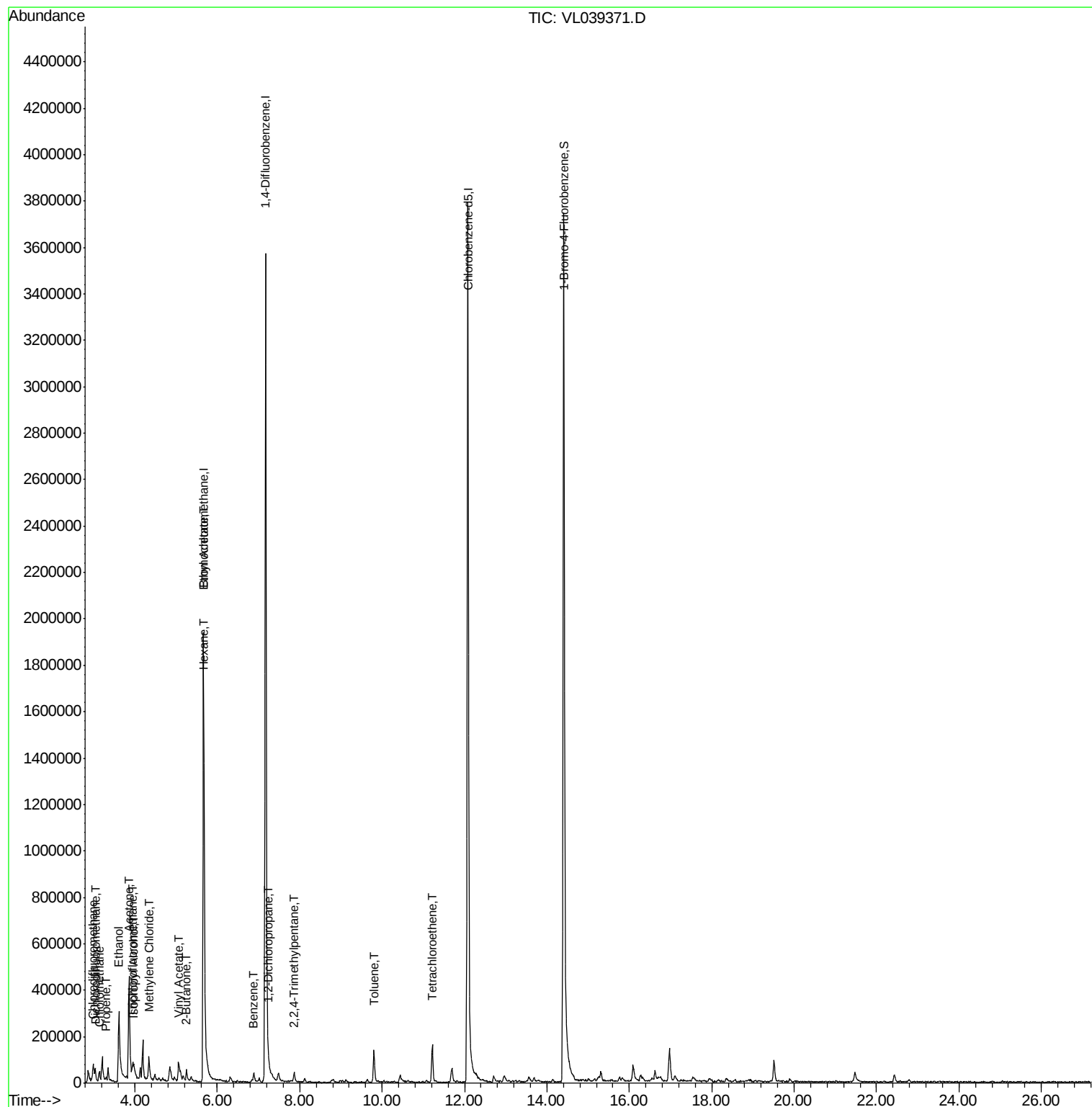
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	35465	0.199	ppbv	90
3) Chlorodifluoromethane	2.98	51	94923	0.734	ppbv #	91
4) Chloromethane	3.14	50	37053	0.558	ppbv	91
9) Propene	3.30	41	4249	0.075	ppbv	87
11) Trichlorofluoromethane	3.95	101	35325	0.219	ppbv #	79
13) Ethanol	3.61	45	429431	139.658	ppbv #	100
15) Acetone	3.85	43	554865	5.241	ppbv	97
19) Isopropyl Alcohol	3.98	45	21456	0.432	ppbv #	9
20) Methylene Chloride	4.35	84	36386	0.816	ppbv #	89
23) Vinyl Acetate	5.07	43	39759	0.454	ppbv #	84
25) Ethyl Acetate	5.68	43	19142	0.080	ppbv #	78
26) Hexane	5.68	57	43588	0.416	ppbv #	45
34) 2-Butanone	5.25	43	60103	0.367	ppbv	94
36) Benzene	6.88	78	22759	0.093	ppbv	97
39) 1,2-Dichloropropane	7.24	63	4702	0.048	ppbv #	38
44) 2,2,4-Trimethylpentane	7.87	57	22709	0.053	ppbv #	39
52) Tetrachloroethene	11.21	164	16075	0.168	ppbv	93
53) Toluene	9.80	91	97890	0.347	ppbv	98

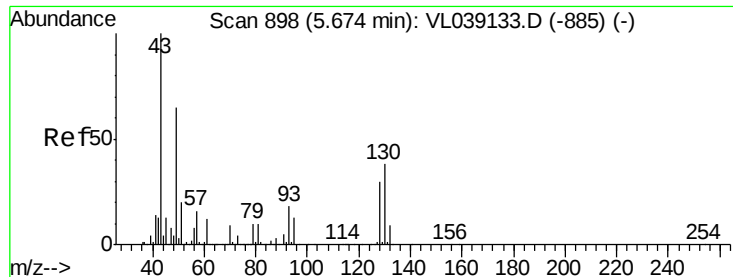
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jun 2022 23:11

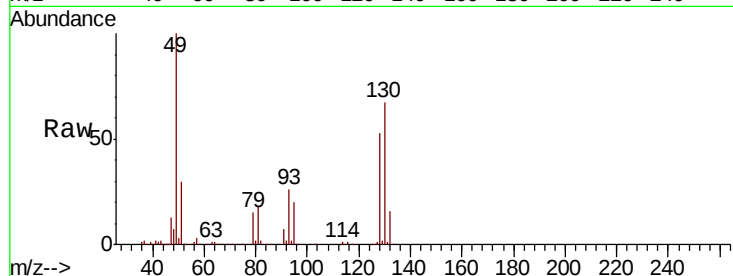
Tot Ion: 49 Resp: 1016262

Ion Ratio Lower Upper

49 100

128 56.2 24.7 74.1

130 74.0 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

5.67

400000

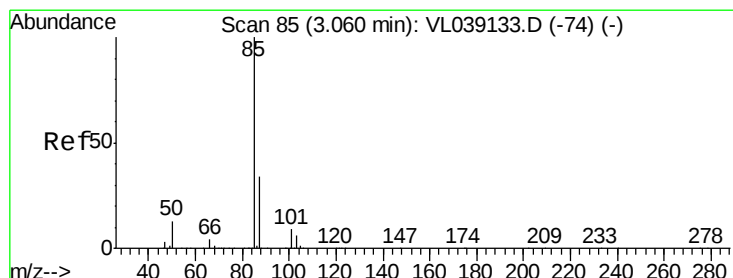
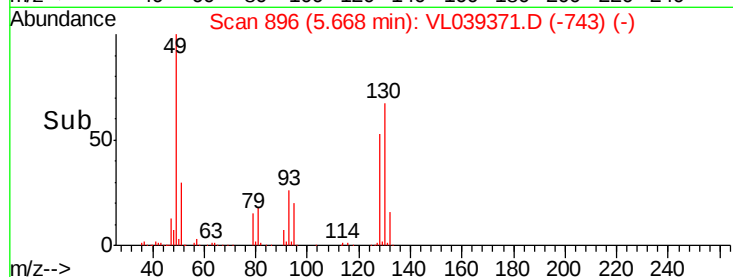
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.199 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.03 min

Lab File: VL039371.D

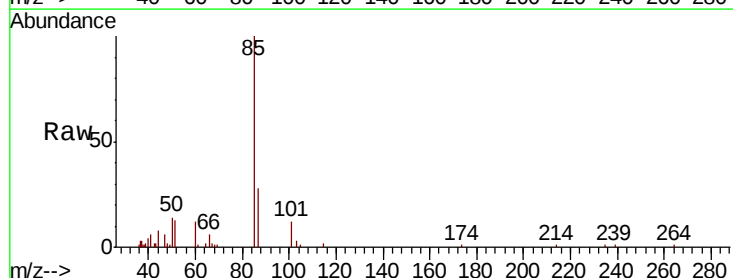
Acq: 27 Jun 2022 23:11

Tgt Ion: 85 Resp: 35465

Ion Ratio Lower Upper

85 100

87 28.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

25000

20000

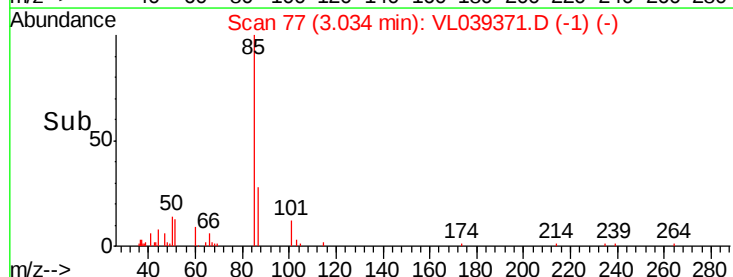
15000

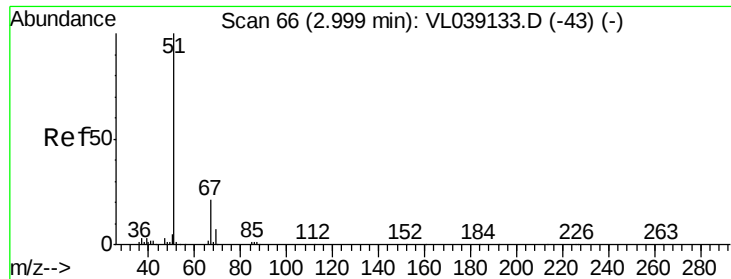
10000

5000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.734 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

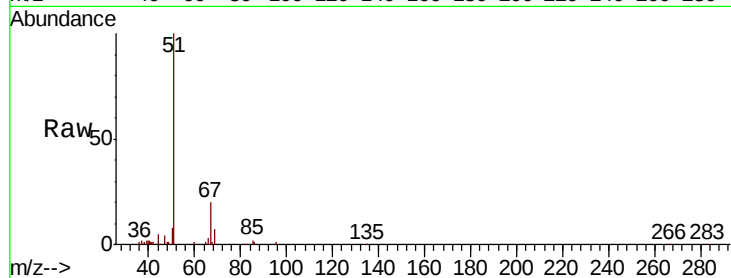
Acq: 27 Jun 2022 23:11

Tot Ion: 51 Resp: 94923

Ion Ratio Lower Upper

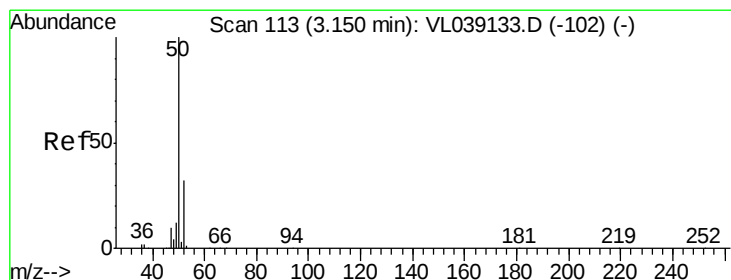
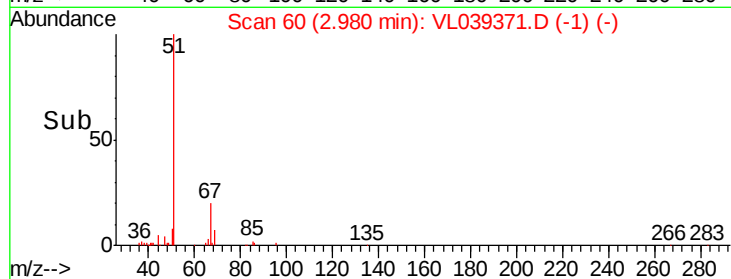
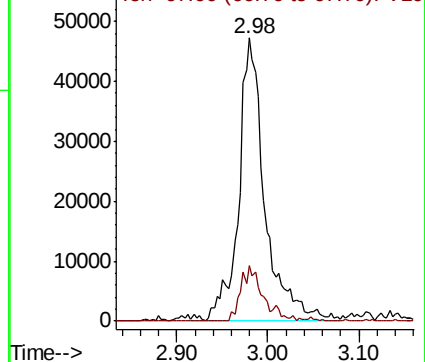
51 100

67 16.2 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: 0.558 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039371.D

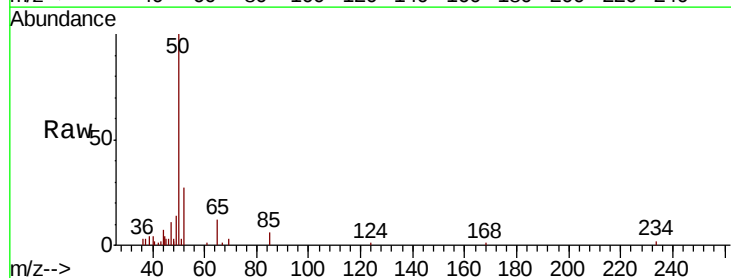
Acq: 27 Jun 2022 23:11

Tgt Ion: 50 Resp: 37053

Ion Ratio Lower Upper

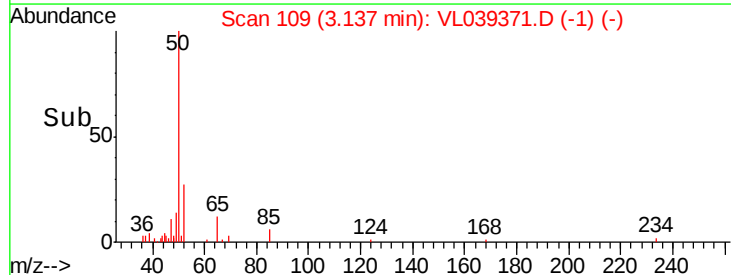
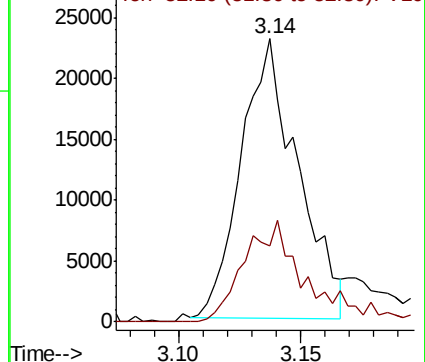
50 100

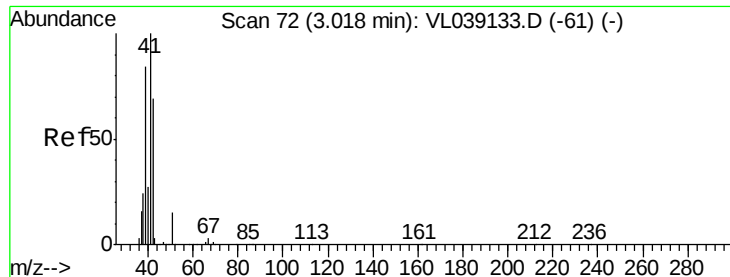
52 27.2 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.075 ppbv

RT: 3.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

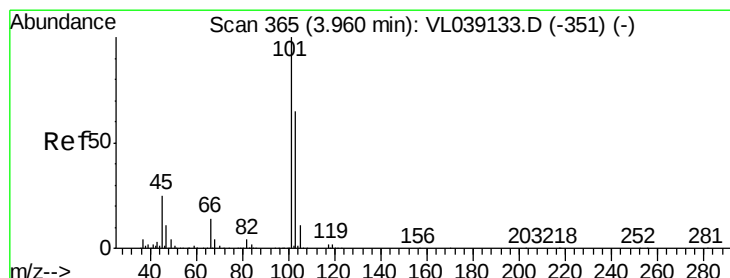
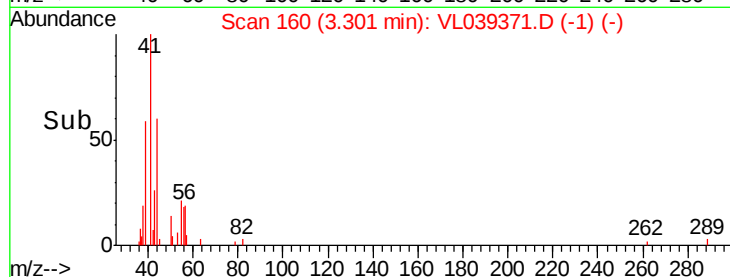
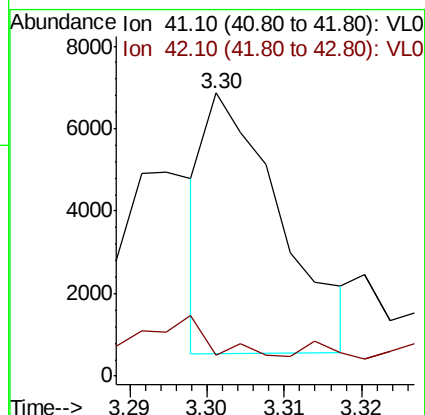
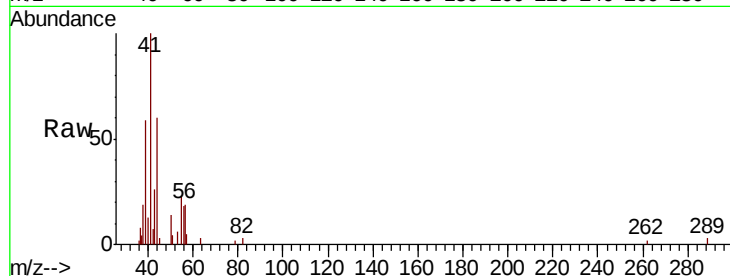
Acq: 27 Jun 2022 23:11

Tot Ion: 41 Resp: 4249

Ion Ratio Lower Upper

41 100

42 58.4 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.219 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL039371.D

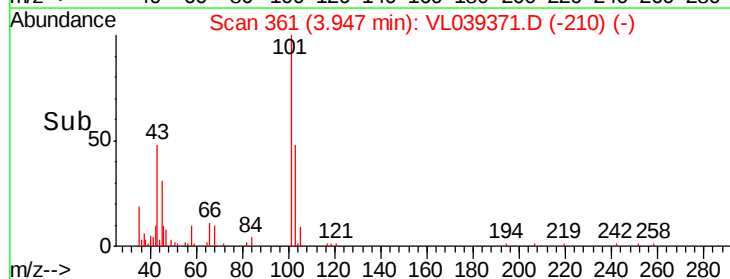
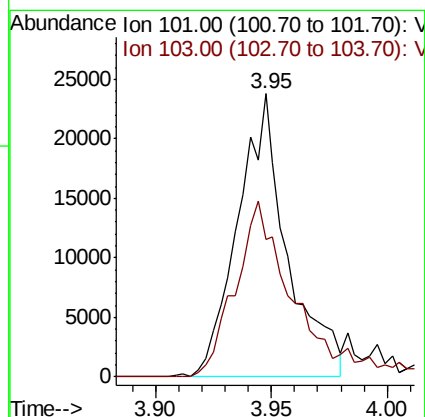
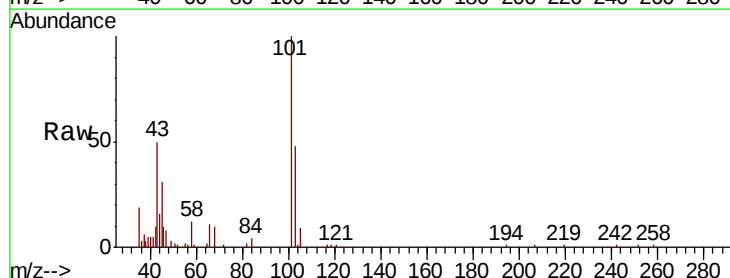
Acq: 27 Jun 2022 23:11

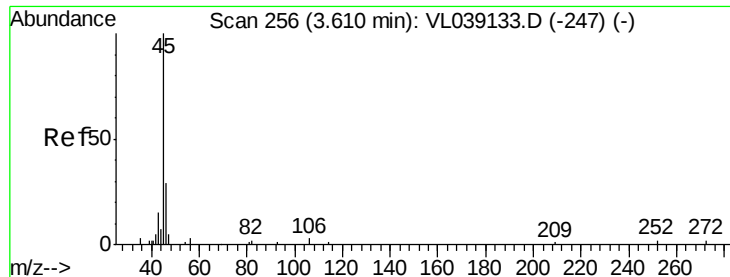
Tgt Ion: 101 Resp: 35325

Ion Ratio Lower Upper

101 100

103 48.5 51.7 77.5#





#13

Ethanol

Concen: 139.658 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

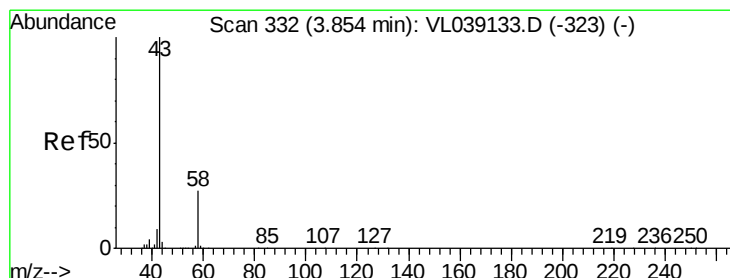
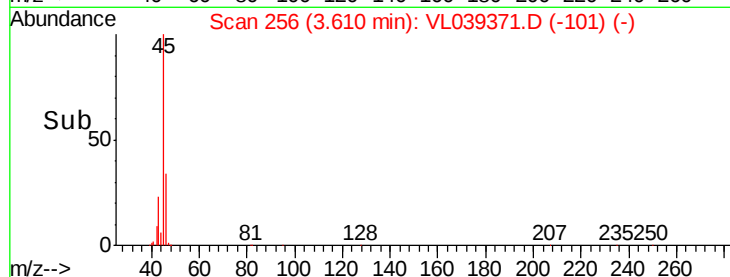
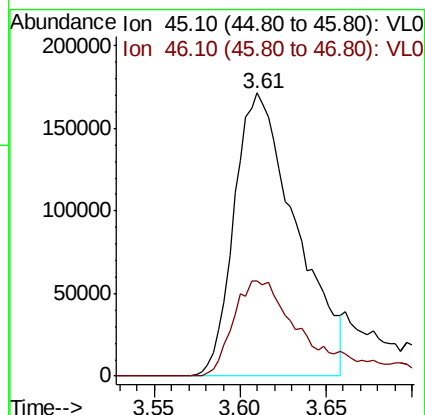
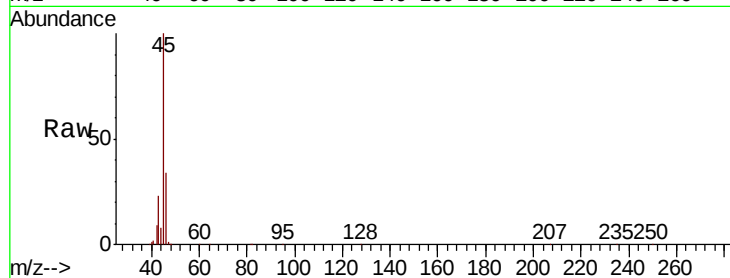
Acq: 27 Jun 2022 23:11

Tot Ion: 45 Resp: 429431

Ion Ratio Lower Upper

45 100

46 43.5 0.0 0.0#



#15

Acetone

Concen: 5.241 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL039371.D

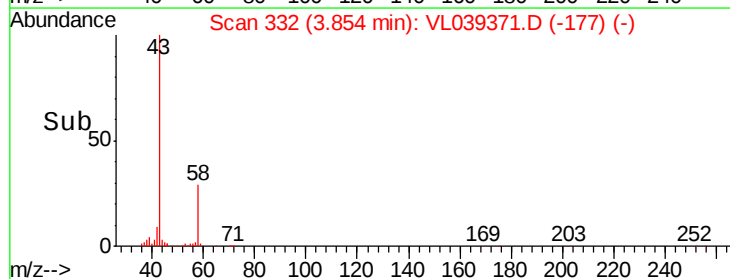
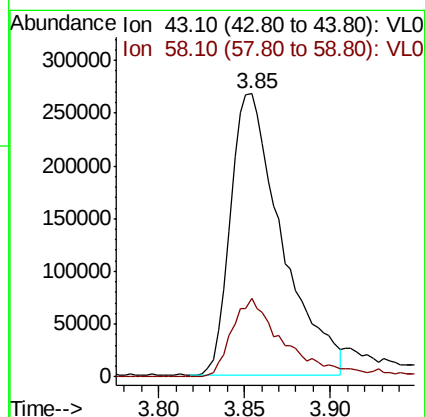
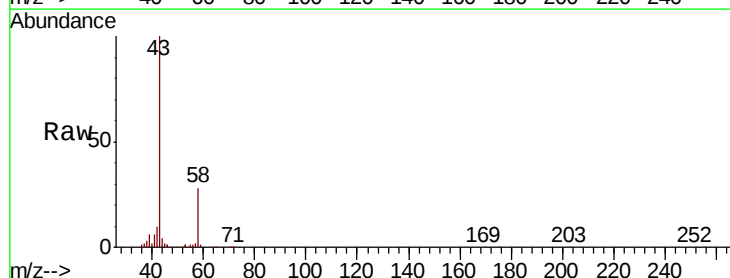
Acq: 27 Jun 2022 23:11

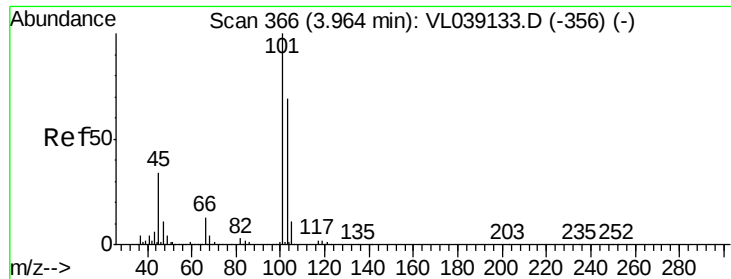
Tgt Ion: 43 Resp: 554865

Ion Ratio Lower Upper

43 100

58 29.4 22.5 33.7





#19

Isopropyl Alcohol

Concen: 0.432 ppbv

RT: 3.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-1

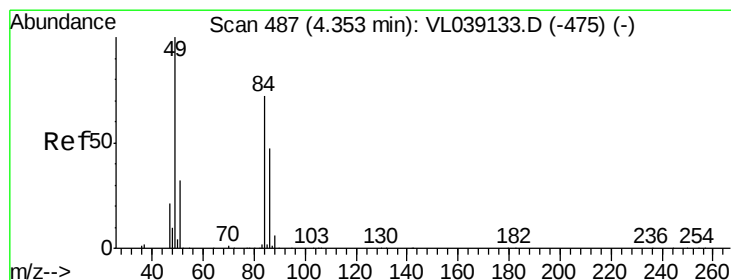
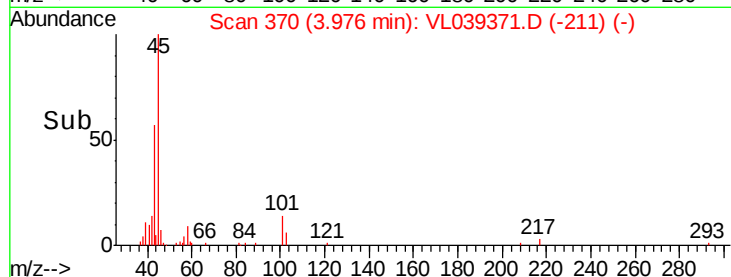
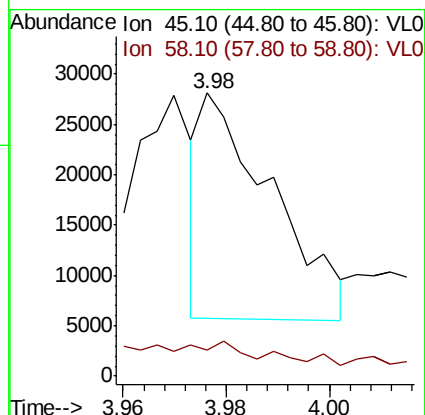
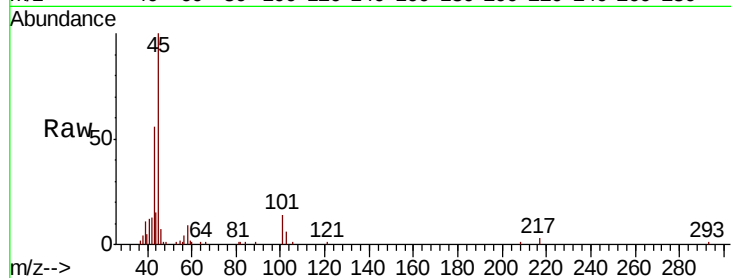
Acq: 27 Jun 2022 23:11

Tot Ion: 45 Resp: 21456

Ion Ratio Lower Upper

45 100

58 33.4 1.8 2.8#



#20

Methylene Chloride

Concen: 0.816 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL039371.D

Acq: 27 Jun 2022 23:11

Tgt Ion: 84 Resp: 36386

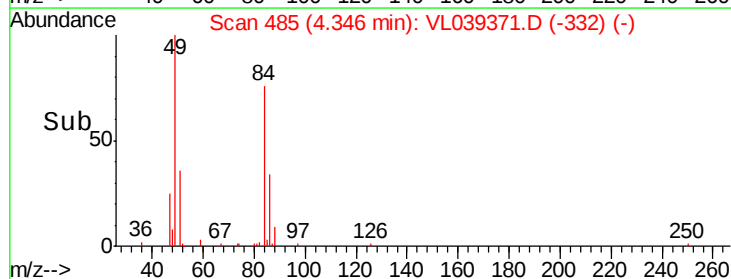
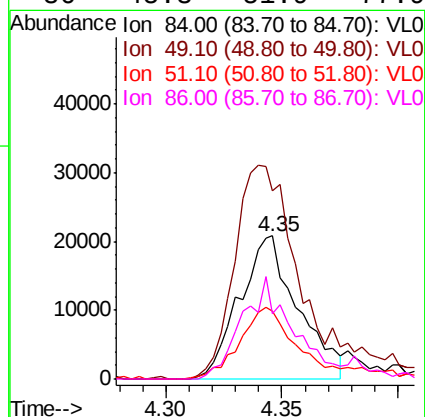
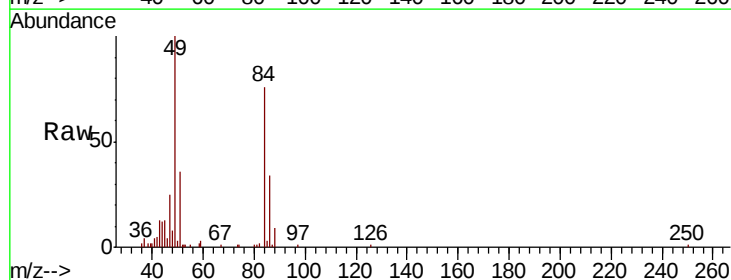
Ion Ratio Lower Upper

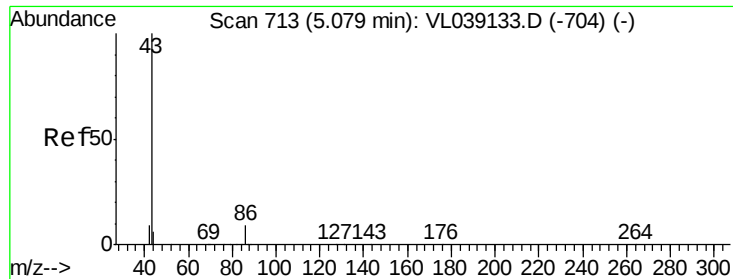
84 100

49 131.6 111.1 166.7

51 46.4 35.3 52.9

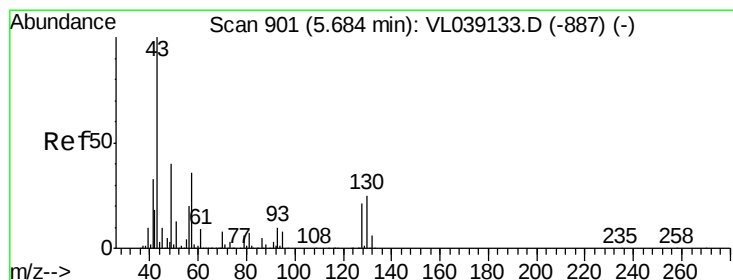
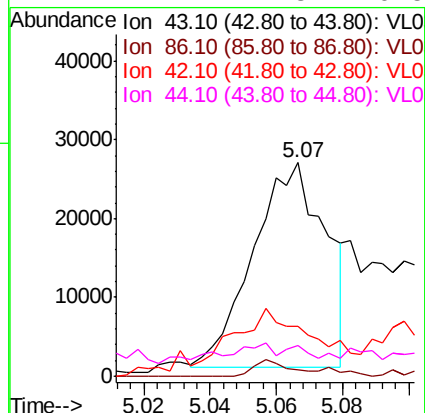
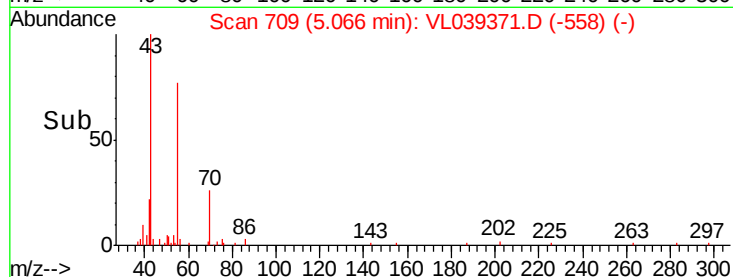
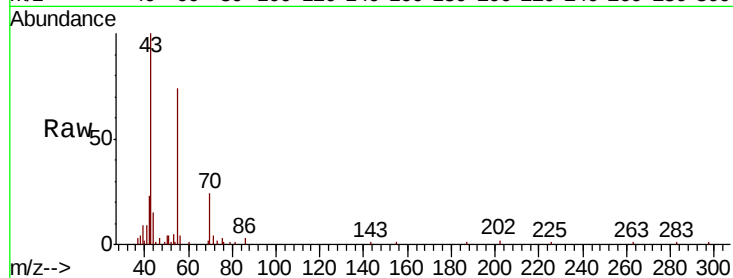
86 45.3 51.9 77.9#





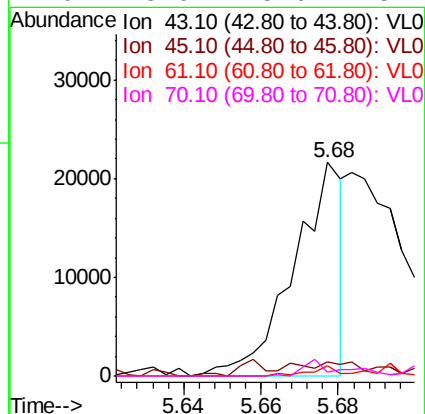
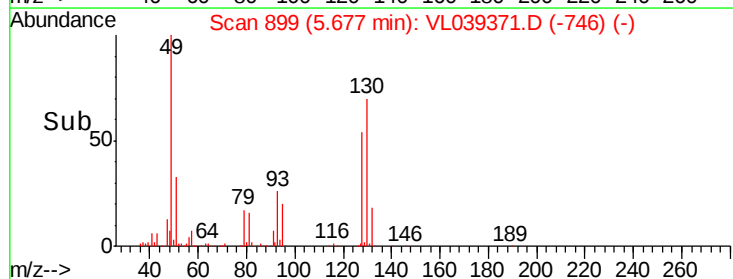
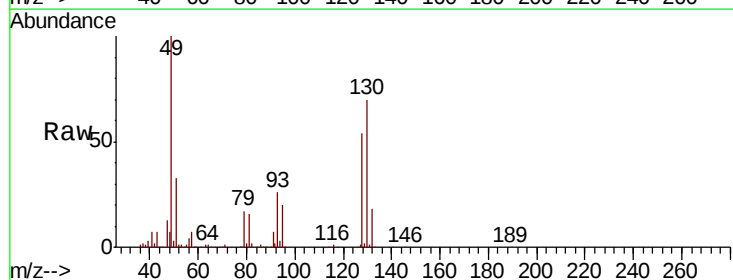
#23
 Vinyl Acetate
 Concen: 0.454 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 23:11

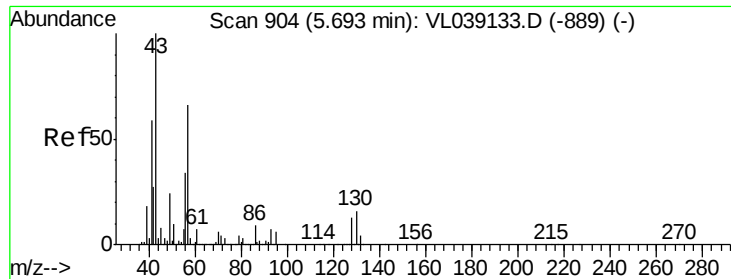
Tot Ion:	43	Resp:	39759
Ion	Ratio	Lower	Upper
43	100		
86	3.0	6.0	9.0#
42	19.4	8.2	12.4#
44	7.2	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.080 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VL039371.D
 Acq: 27 Jun 2022 23:11

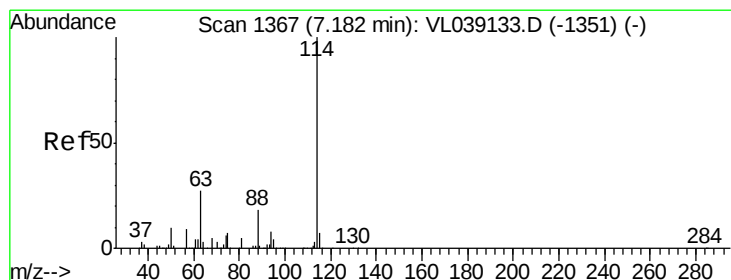
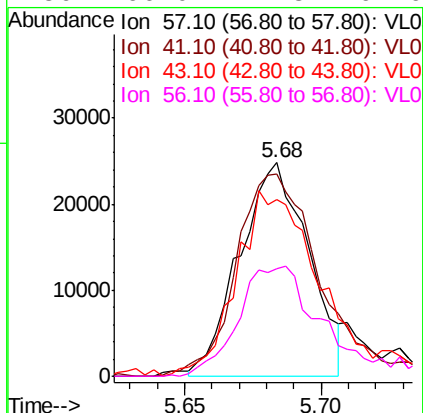
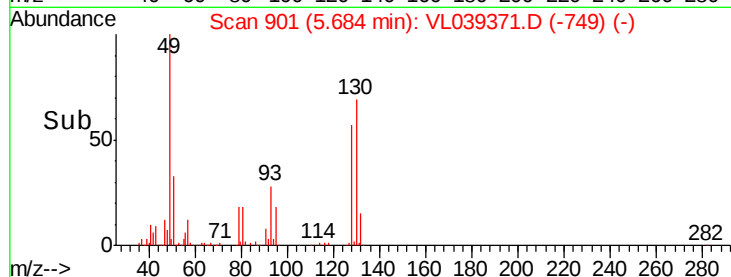
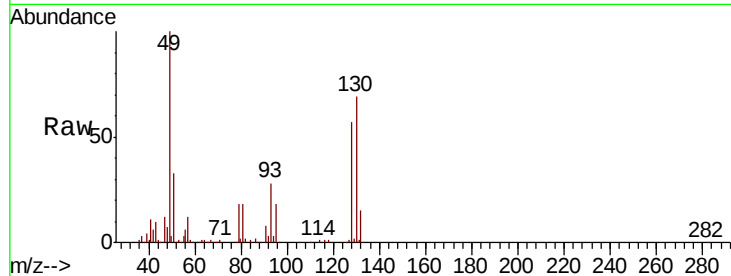
Tgt Ion:	43	Resp:	19142
Ion	Ratio	Lower	Upper
43	100		
45	21.2	8.2	12.2#
61	0.0	8.4	12.6#
70	5.9	5.6	8.4





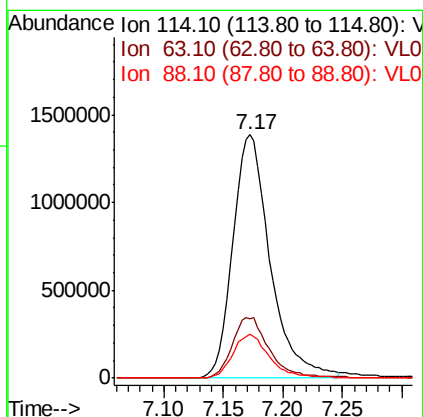
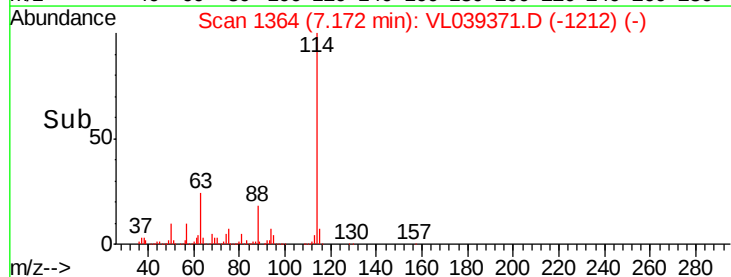
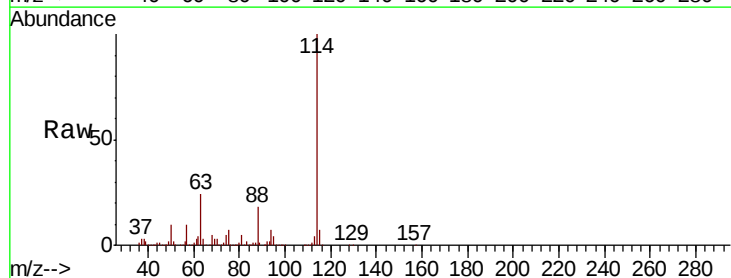
#26
Hexane
Concen: 0.416 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jun 2022 23:11

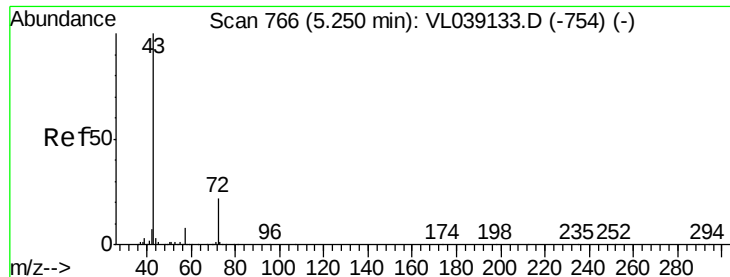
Tot Ion:	57	Resp:	43588
Ion	Ratio	Lower	Upper
57	100		
41	120.0	72.4	108.6#
43	112.4	187.0	280.6#
56	66.0	41.8	62.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL039371.D
Acq: 27 Jun 2022 23:11

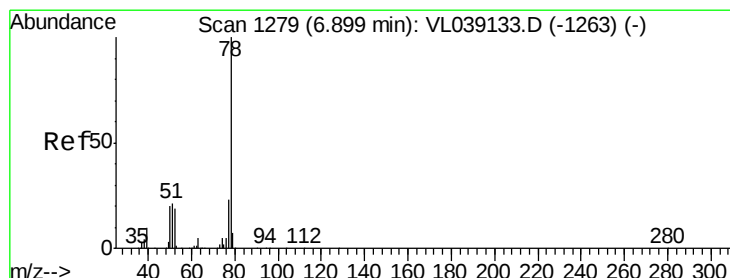
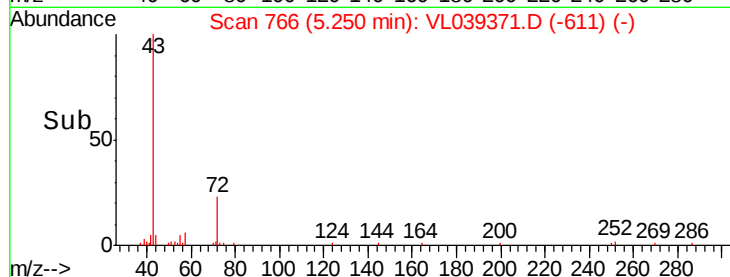
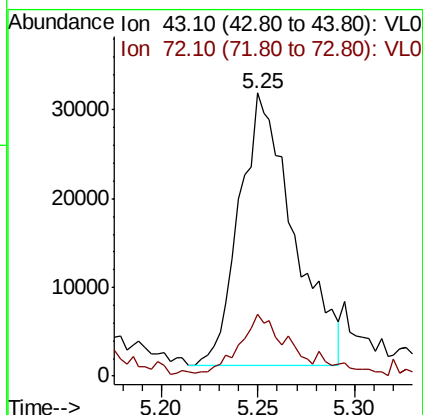
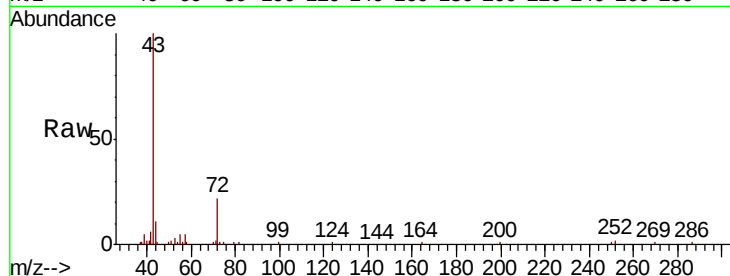
Tgt Ion:	114	Resp:	3014808
Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.7	32.5
88	18.1	14.8	22.2





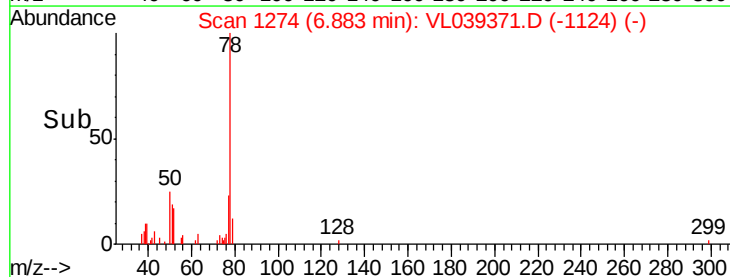
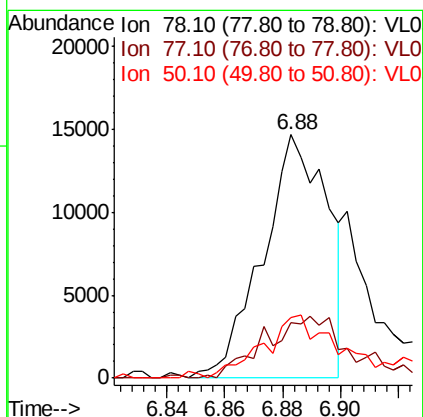
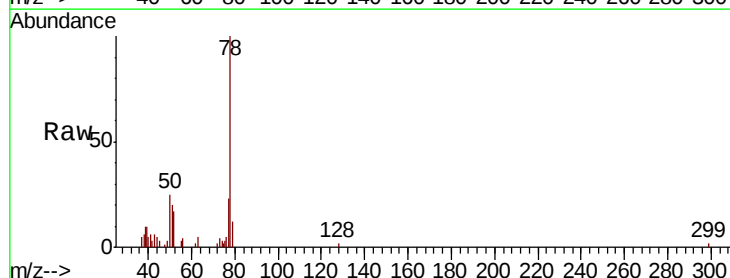
#34
2-Butanone
Concen: 0.367 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jun 2022 23:11

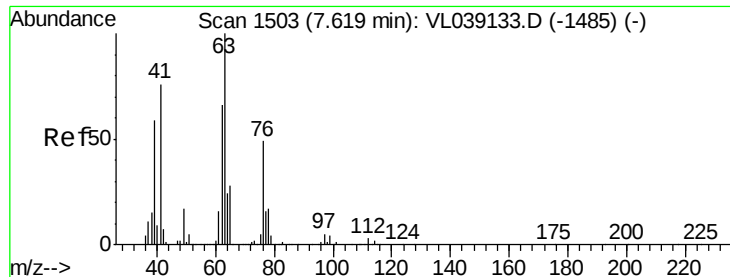
Tot Ion: 43 Resp: 60103
Ion Ratio Lower Upper
43 100
72 25.6 18.2 27.2



#36
Benzene
Concen: 0.093 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.02 min
Lab File: VL039371.D
Acq: 27 Jun 2022 23:11

Tgt Ion: 78 Resp: 22759
Ion Ratio Lower Upper
78 100
77 22.6 18.6 27.8
50 21.9 15.8 23.8





#39

1,2-Dichloropropane

Concen: 0.048 ppbv

RT: 7.24 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jun 2022 23:11

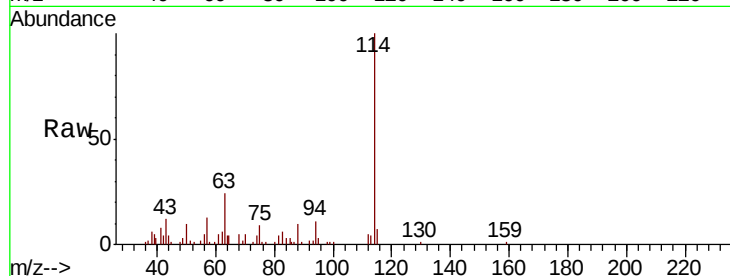
Tot Ion: 63 Resp: 4702

Ion Ratio Lower Upper

63 100

41 23.2 60.8 91.2#

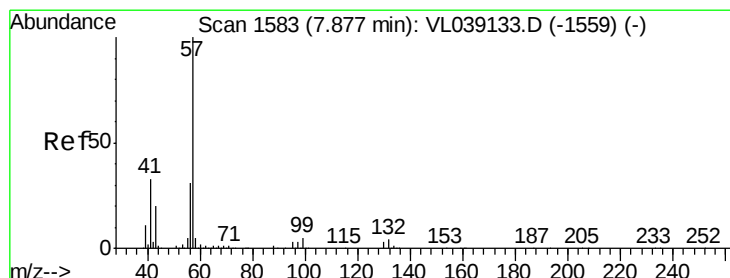
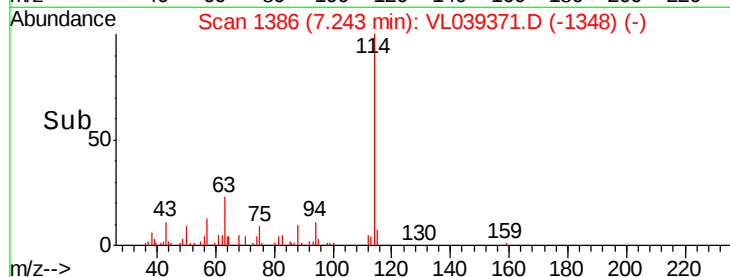
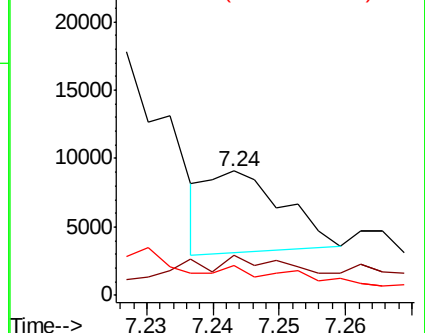
62 16.3 52.9 79.3#



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



#44

2,2,4-Trimethylpentane

Concen: 0.053 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL039371.D

Acq: 27 Jun 2022 23:11

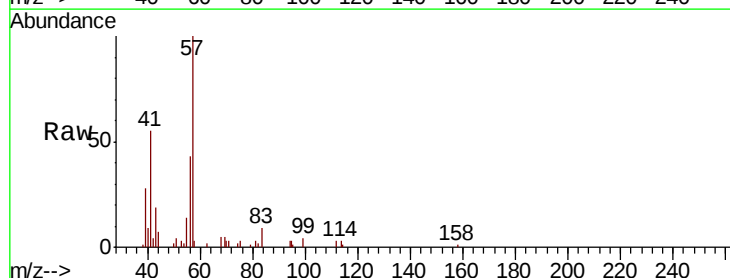
Tgt Ion: 57 Resp: 22709

Ion Ratio Lower Upper

57 100

41 77.7 26.2 39.4#

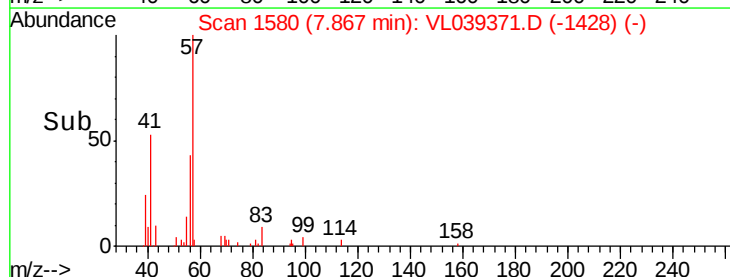
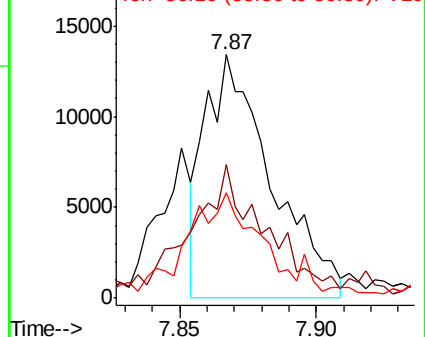
56 53.9 24.7 37.1#

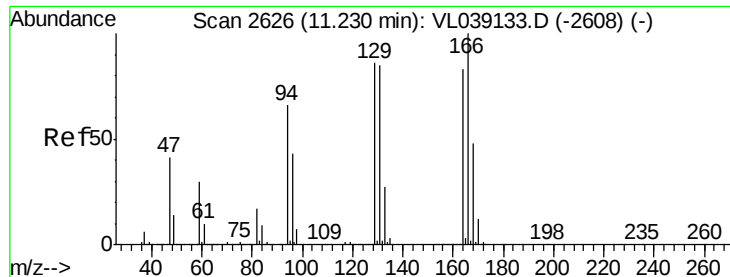


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

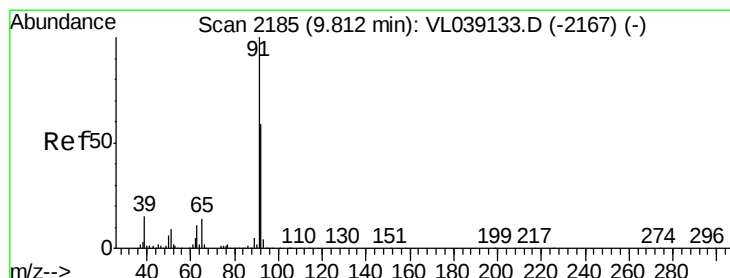
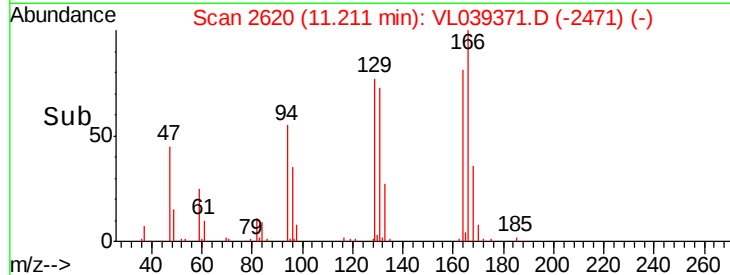
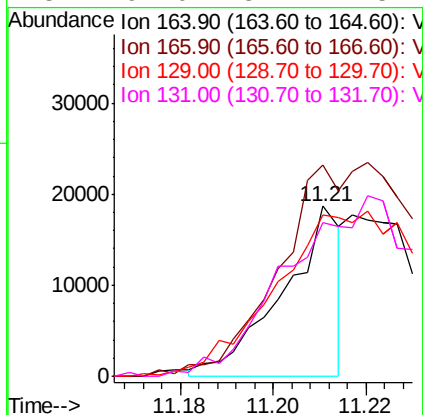
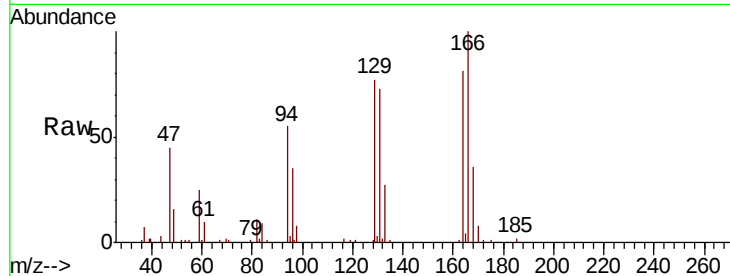
Ion 56.10 (55.80 to 56.80): VL0





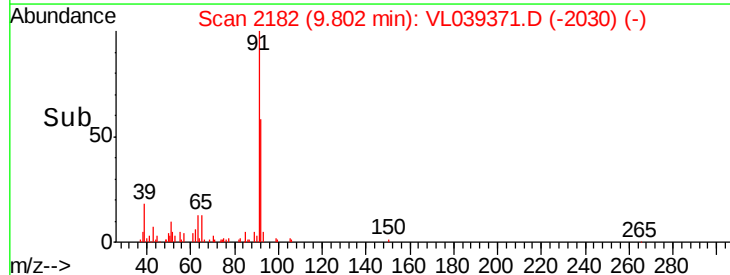
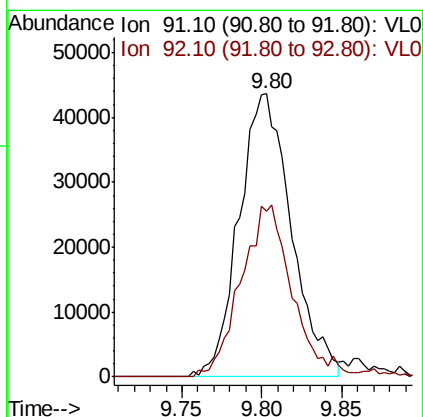
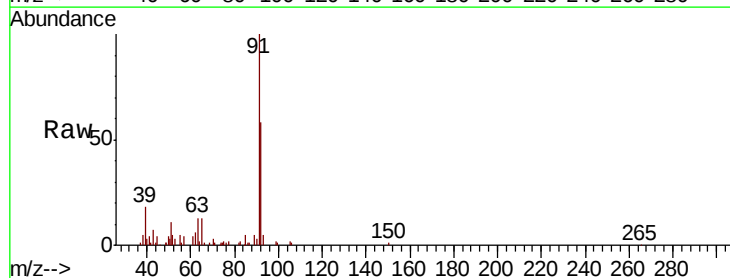
#52
Tetrachloroethene
Concen: 0.168 ppbv
RT: 11.21
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jun 2022 23:11

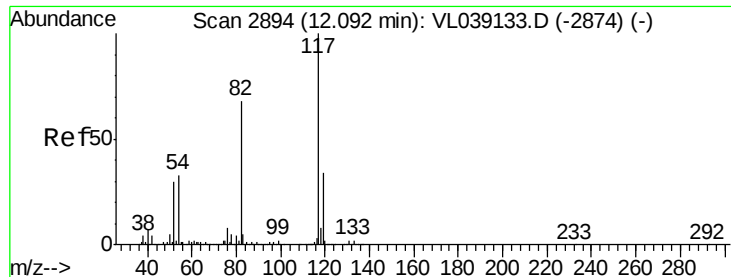
Tot Ion:164	Resp:	16075
Ion	Ratio	Lower Upper
164	100	
166	122.3	96.3 144.5
129	93.1	82.5 123.7
131	91.0	82.1 123.1



#53
Toluene
Concen: 0.347 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.01 min
Lab File: VL039371.D
Acq: 27 Jun 2022 23:11

Tgt Ion: 91	Resp:	97890
Ion	Ratio	Lower Upper
91	100	
92	61.4	48.1 72.1

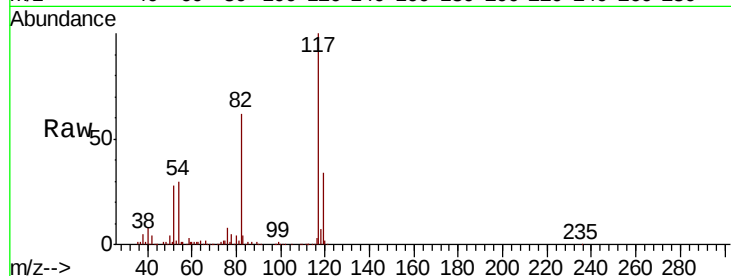




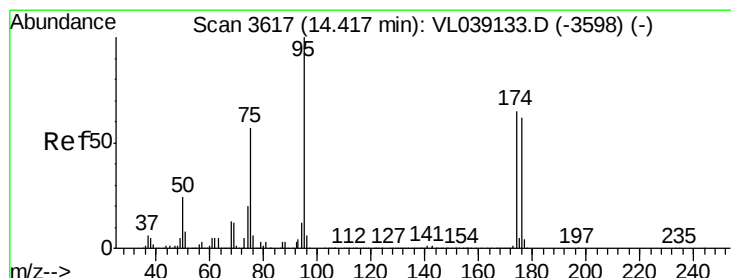
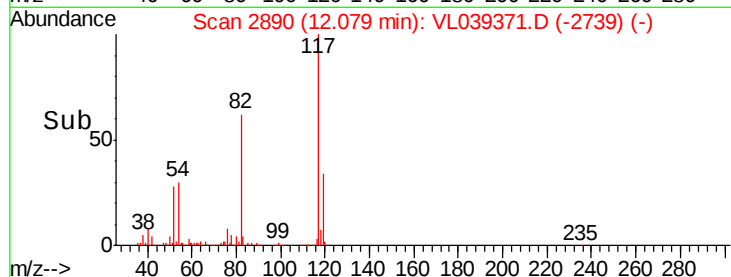
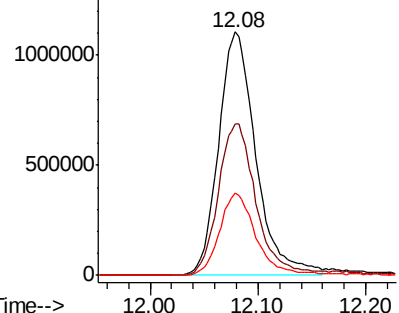
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Jun 2022 23:11

Tot Ion: 117 Resp: 2660007

Ion	Ratio	Lower	Upper
117	100		
82	65.9	55.1	82.7
119	34.3	24.7	37.1



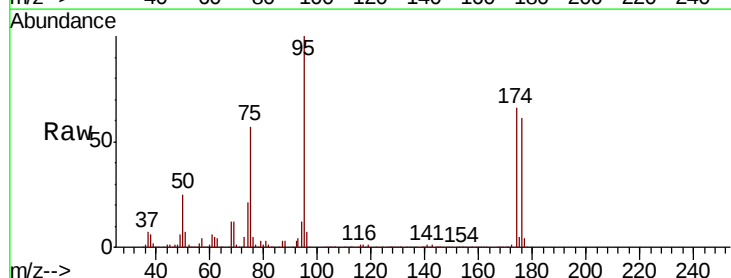
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 8.873 ppbv
RT: 14.41 min Scan# 3614
Delta R.T.: -0.01 min
Lab File: VL039371.D
Acq: 27 Jun 2022 23:11

Tgt Ion: 95 Resp: 1951206

Ion	Ratio	Lower	Upper
95	100		
174	72.2	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

