

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039367.D
 Acq On : 27 Jun 2022 20:24
 Operator : SY/AP
 Sample : N3453-04 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4

Quant Time: Jun 28 02:38:42 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	1203914	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3391778	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3100893	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2438196	9.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

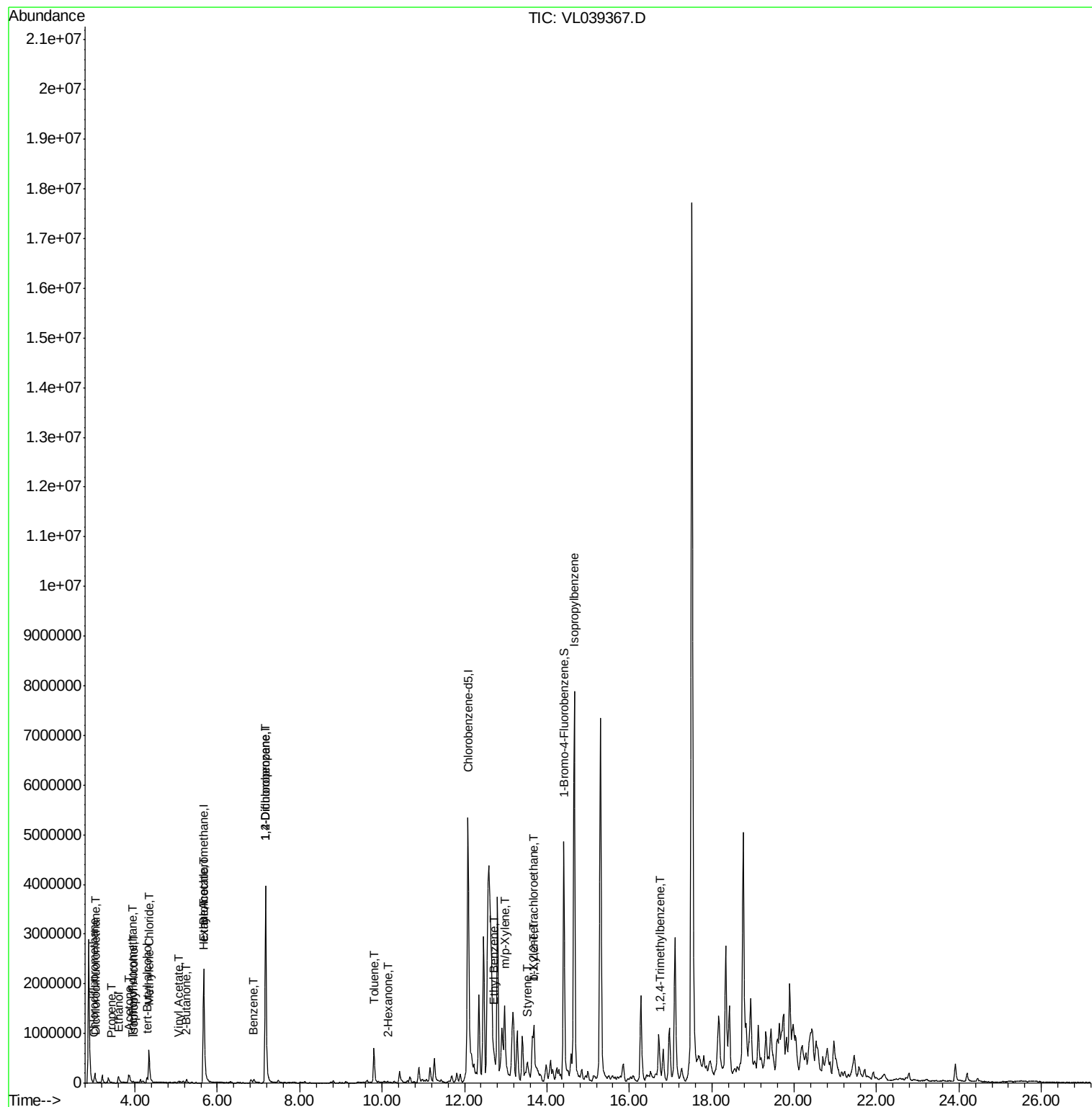
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	20206	0.096	ppbv #	87
3) Chlorodifluoromethane	2.99	51	12749	0.083	ppbv #	89
9) Propene	3.43	41	2290	0.034	ppbv	99
11) Trichlorofluoromethane	3.94	101	9822	0.051	ppbv #	78
13) Ethanol	3.61	45	67198	18.448	ppbv #	100
15) Acetone	3.85	43	226074	1.803	ppbv	99
17) tert-Butyl alcohol	4.30	59	97230	1.000	ppbv	95
19) Isopropyl Alcohol	3.97	45	6232	0.106	ppbv #	93
20) Methylene Chloride	4.34	84	259880	4.917	ppbv	90
23) Vinyl Acetate	5.07	43	4160	0.040	ppbv #	77
25) Ethyl Acetate	5.68	43	128518	0.455	ppbv #	79
26) Hexane	5.69	57	164744	1.326	ppbv #	41
34) 2-Butanone	5.24	43	27209	0.148	ppbv #	53
36) Benzene	6.89	78	48374	0.176	ppbv	98
39) 1,2-Dichloropropane	7.17	63	810333	7.398	ppbv #	24
51) 2-Hexanone	10.14	43	9160	0.043	ppbv #	28
53) Toluene	9.80	91	585022	1.845	ppbv	100
58) Ethyl Benzene	12.71	91	175160	0.410	ppbv	96
59) m/p-Xylene	12.99	91	100079	0.266	ppbv #	33
60) o-Xylene	13.69	91	156851	0.444	ppbv #	58
61) Styrene	13.53	104	150157	0.793	ppbv	99
62) Isopropylbenzene	14.66	105	7362021	14.014	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	8691	0.044	ppbv #	24
74) 1,2,4-Trimethylbenzene	16.75	105	19288	0.046	ppbv #	56

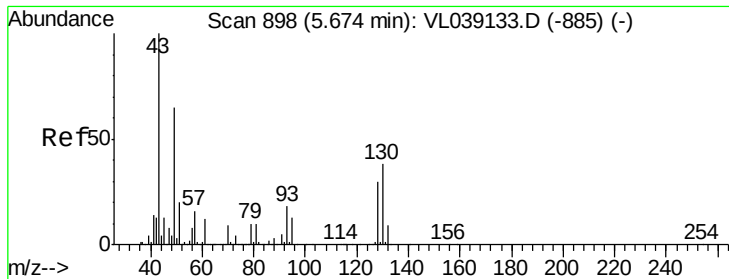
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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 20:24

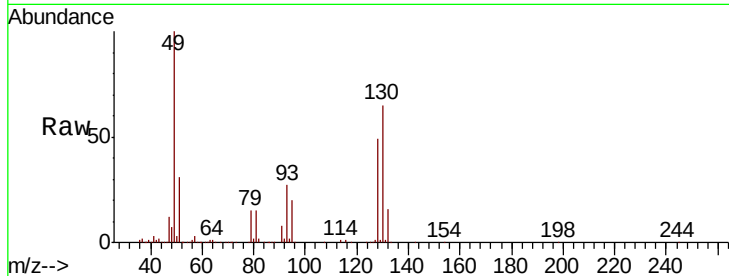
Tot Ion: 49 Resp: 1203914

Ion Ratio Lower Upper

49 100

128 53.1 24.7 74.1

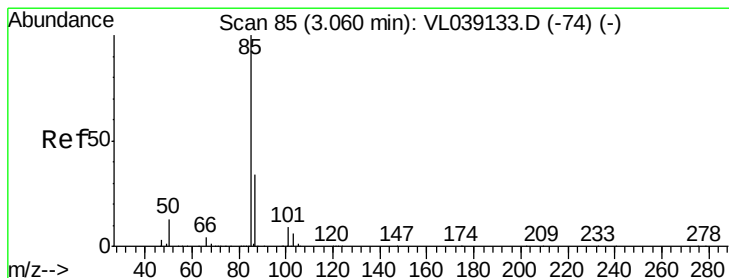
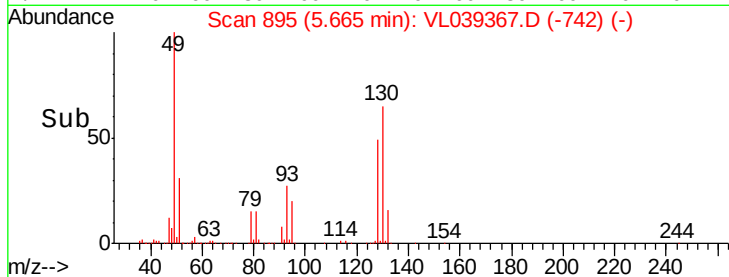
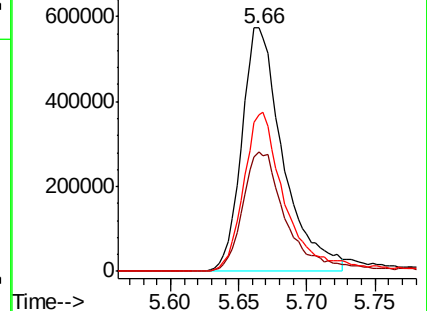
130 68.6 31.4 94.0



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: 0.096 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL039367.D

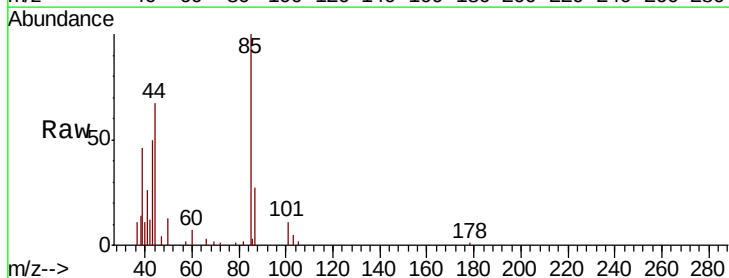
Acq: 27 Jun 2022 20:24

Tgt Ion: 85 Resp: 20206

Ion Ratio Lower Upper

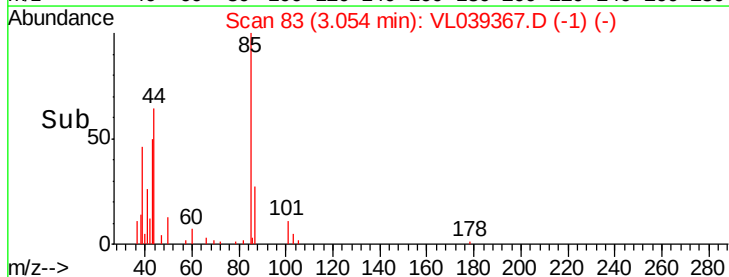
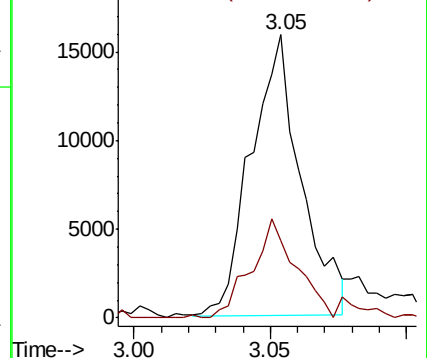
85 100

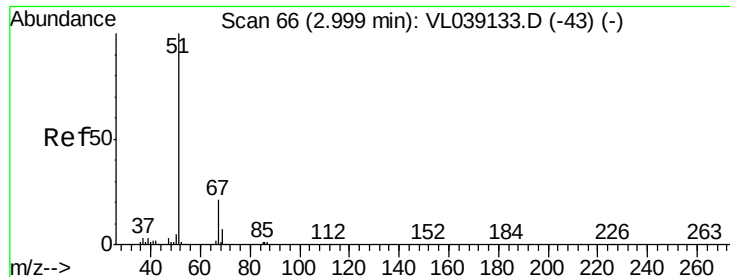
87 26.2 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.083 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-4

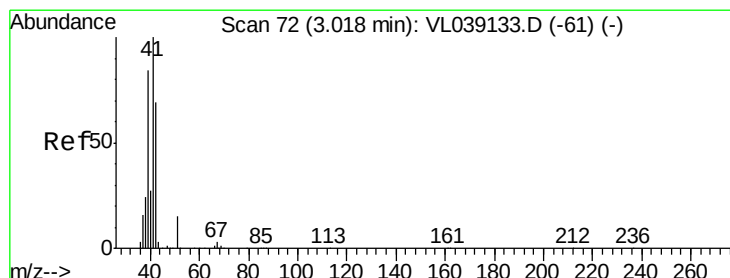
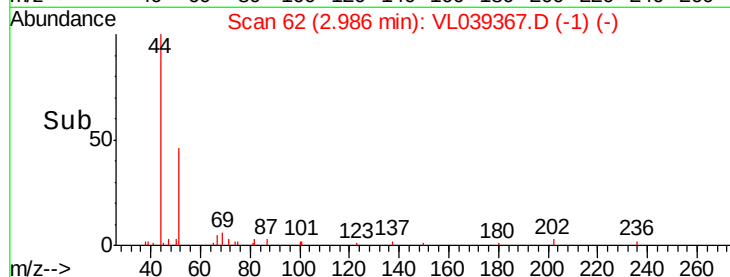
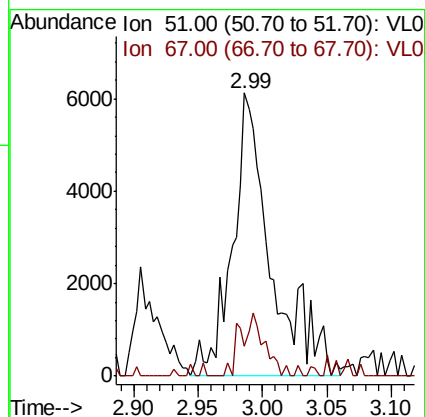
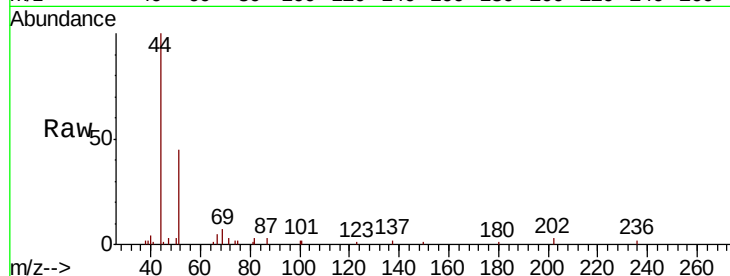
Acq: 27 Jun 2022 20:24

Tot Ion: 51 Resp: 12749

Ion Ratio Lower Upper

51 100

67 15.2 16.2 24.4#



#9

Propene

Concen: 0.034 ppbv

RT: 3.43 min Scan# 201

Delta R.T. 0.41 min

Lab File: VL039367.D

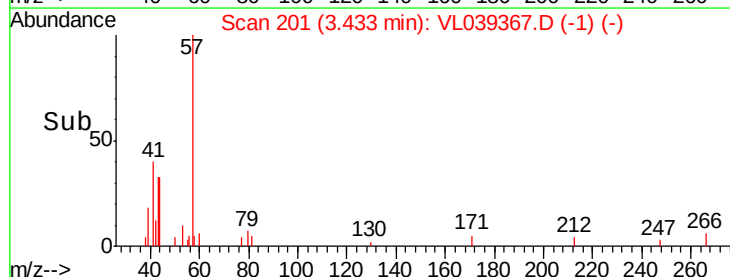
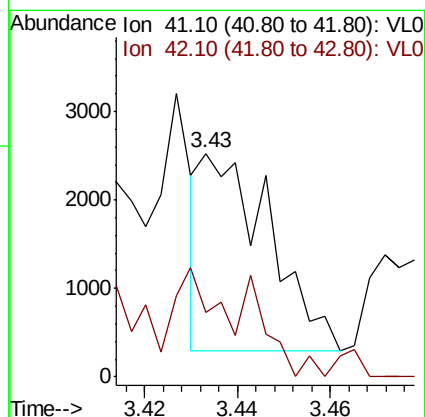
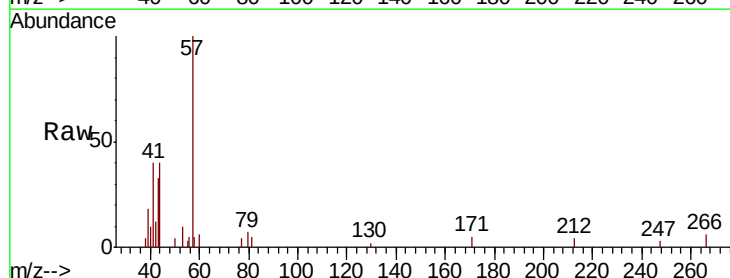
Acq: 27 Jun 2022 20:24

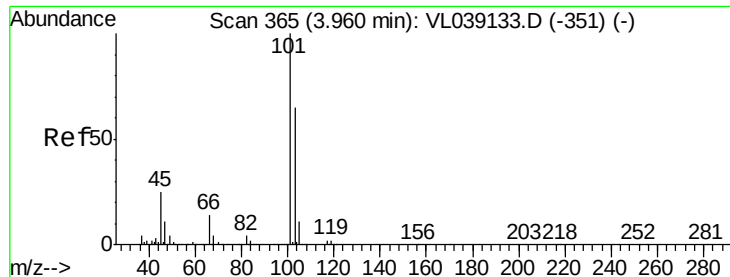
Tgt Ion: 41 Resp: 2290

Ion Ratio Lower Upper

41 100

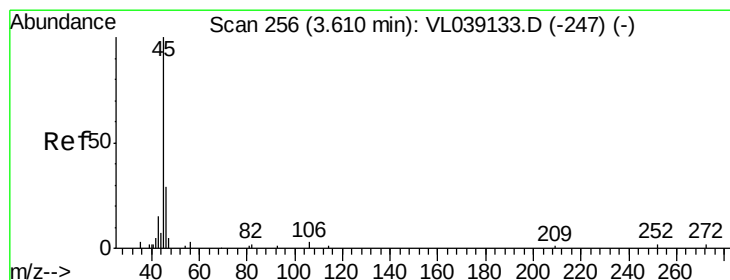
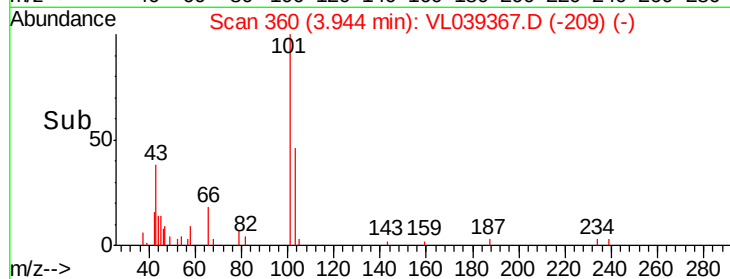
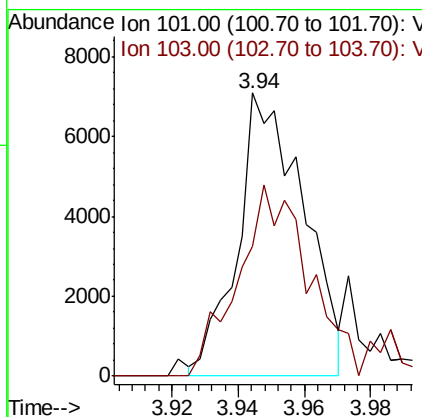
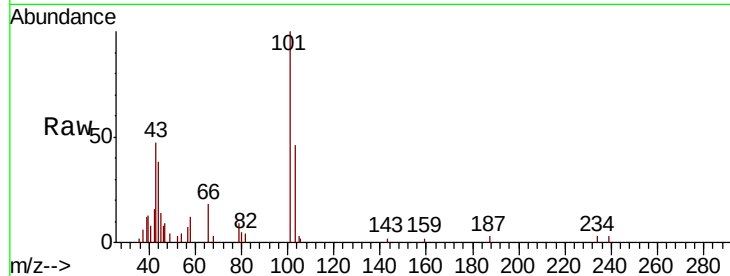
42 68.5 55.4 83.2





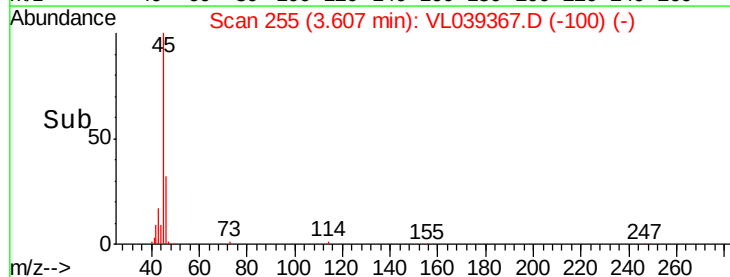
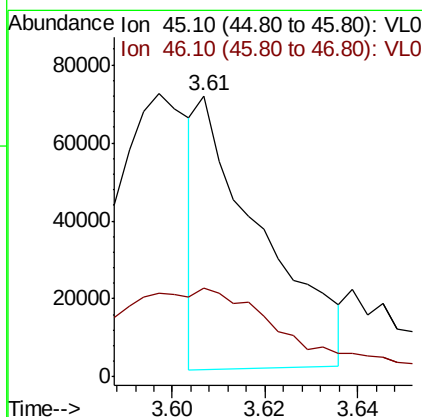
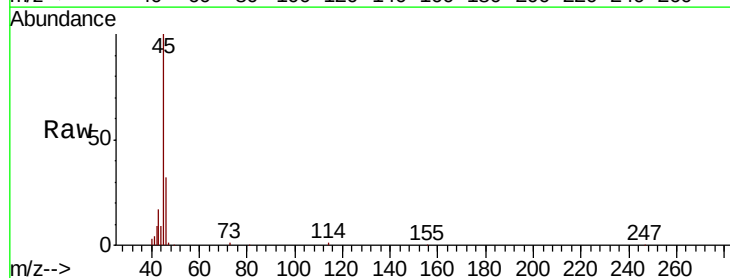
#11
 Trichlorofluoromethane
 Concen: 0.051 ppbv
 RT: 3.94
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Jun 2022 20:24

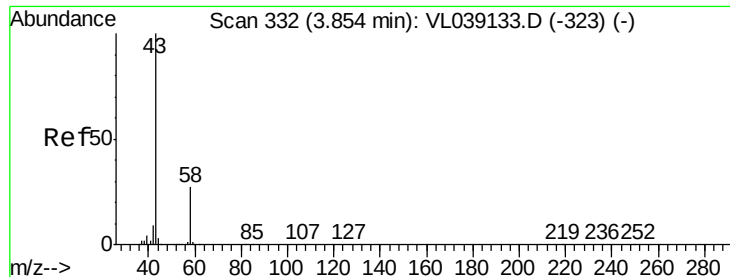
Tot Ion: 101 Resp: 9822
 Ion Ratio Lower Upper
 101 100
 103 47.3 51.7 77.5#



#13
 Ethanol
 Concen: 18.448 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL039367.D
 Acq: 27 Jun 2022 20:24

Tgt Ion: 45 Resp: 67198
 Ion Ratio Lower Upper
 45 100
 46 102.5 0.0 0.0#





#15

Acetone

Concen: 1.803 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

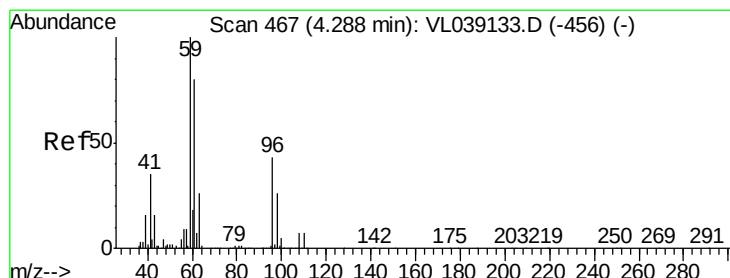
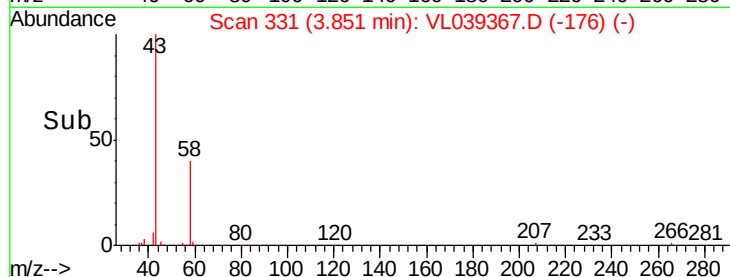
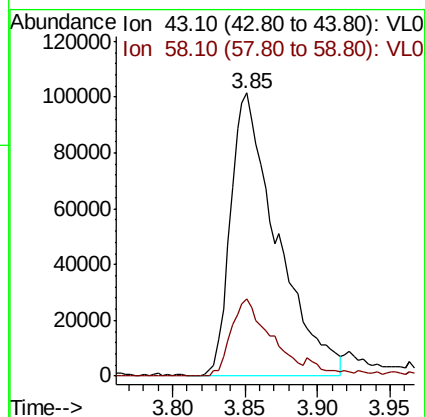
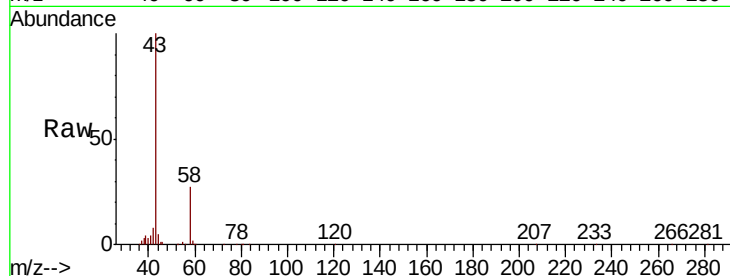
Acq: 27 Jun 2022 20:24 SG-4

Tot Ion: 43 Resp: 226074

Ion Ratio Lower Upper

43 100

58 27.5 22.5 33.7



#17

tert-Butyl alcohol

Concen: 1.000 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL039367.D

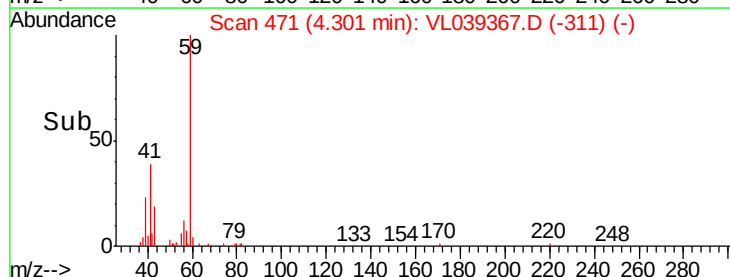
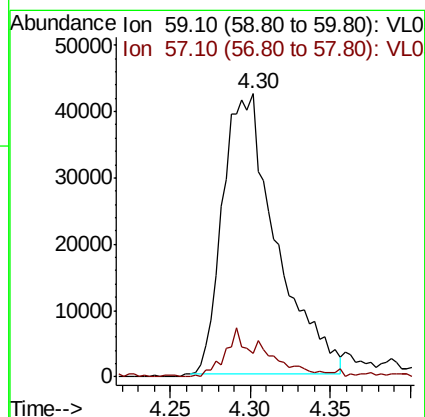
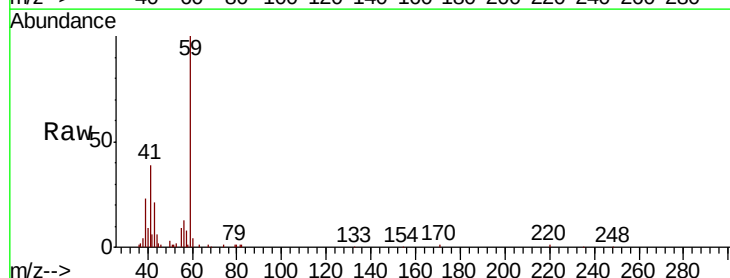
Acq: 27 Jun 2022 20:24

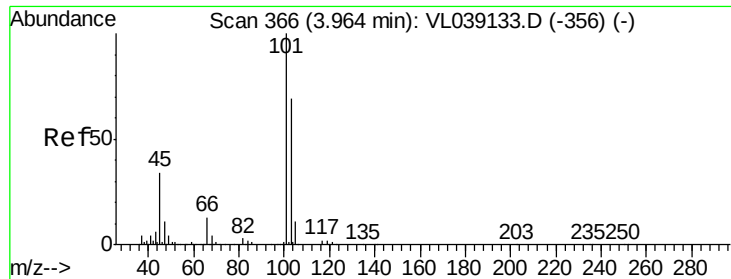
Tgt Ion: 59 Resp: 97230

Ion Ratio Lower Upper

59 100

57 13.5 9.1 13.7





#19

Isopropyl Alcohol

Concen: 0.106 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

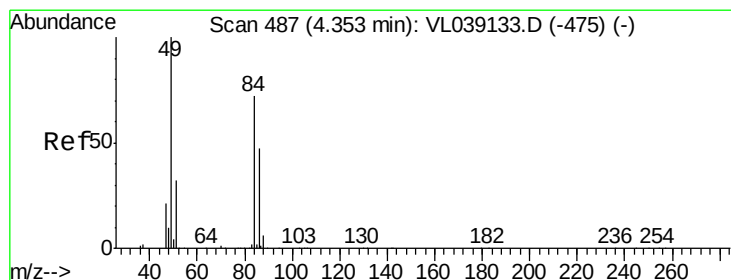
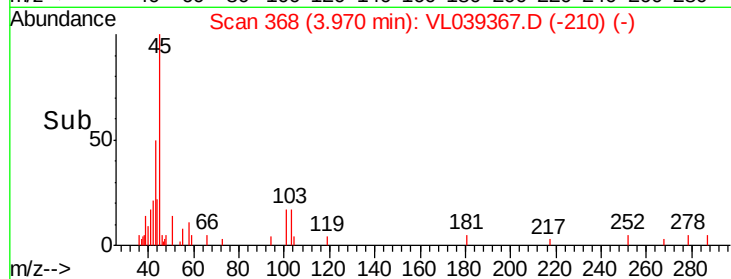
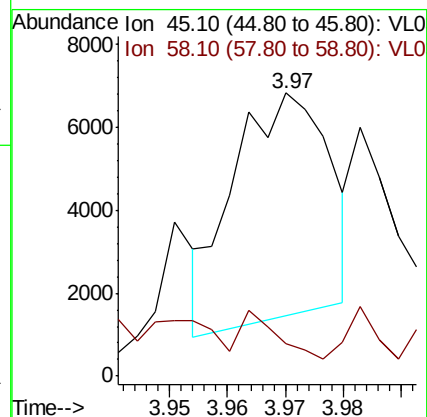
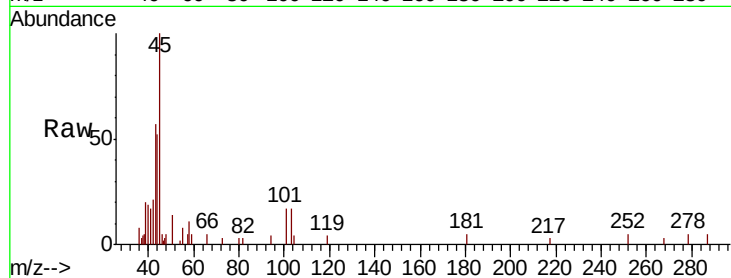
Acq: 27 Jun 2022 20:24 SG-4

Tot Ion: 45 Resp: 6232

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 4.917 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL039367.D

Acq: 27 Jun 2022 20:24

Tgt Ion: 84 Resp: 259880

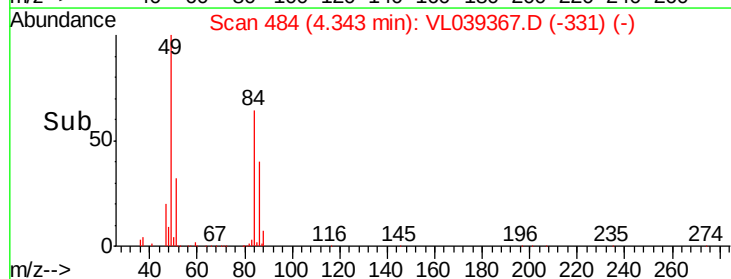
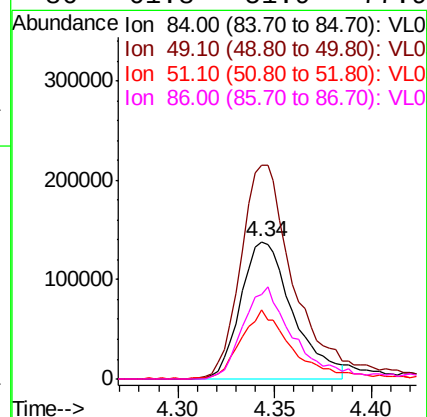
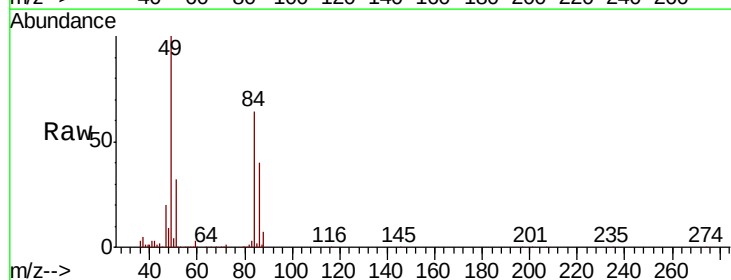
Ion Ratio Lower Upper

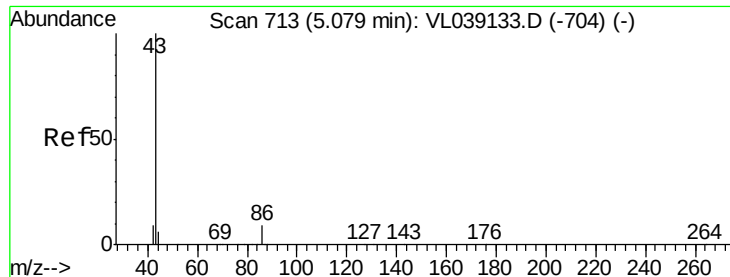
84 100

49 154.6 111.1 166.7

51 49.6 35.3 52.9

86 61.8 51.9 77.9





#23

Vinyl Acetate

Concen: 0.040 ppbv

RT: 5.07 Instrument:

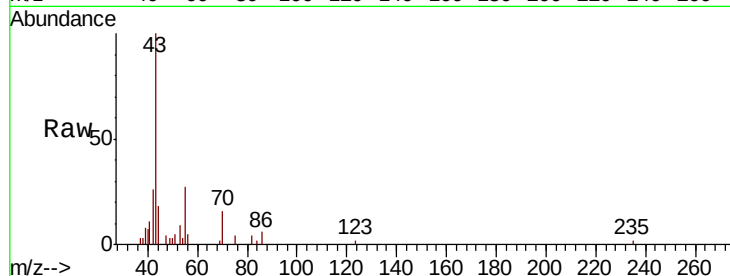
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jun 2022 20:24

Tot Ion: 43 Resp: 4160

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	0.0	8.2	12.4#
44	0.0	4.3	6.5#

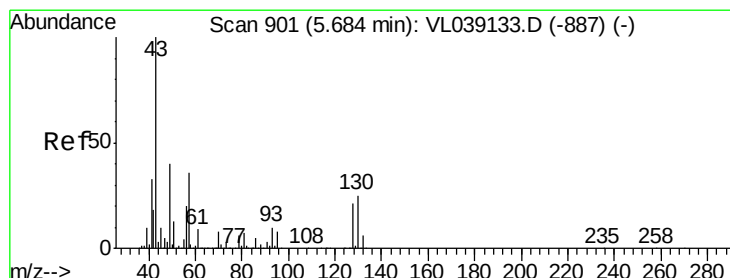
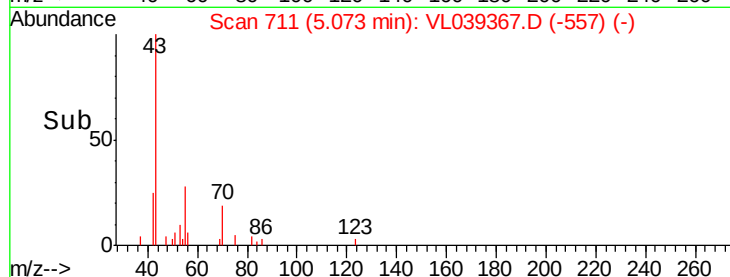
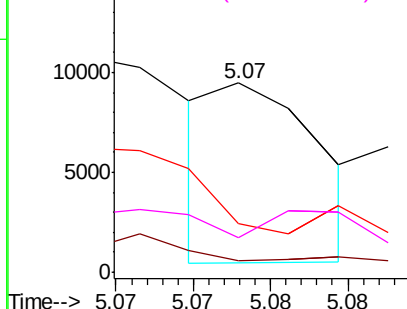


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.455 ppbv

RT: 5.68 min Scan# 901

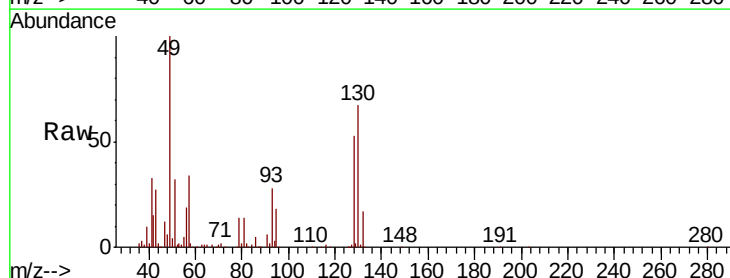
Delta R.T. 0.00 min

Lab File: VL039367.D

Acq: 27 Jun 2022 20:24

Tgt Ion: 43 Resp: 128518

Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.2	12.2#
61	1.1	8.4	12.6#
70	1.9	5.6	8.4#

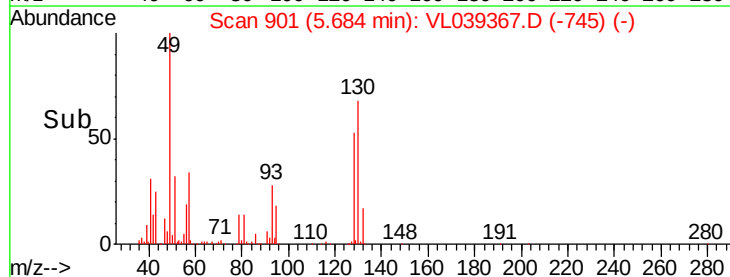
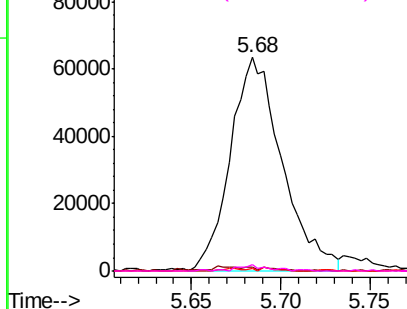


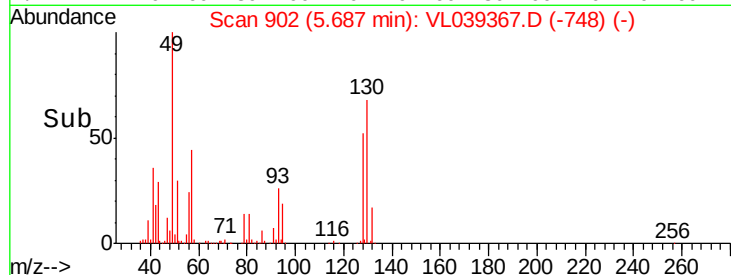
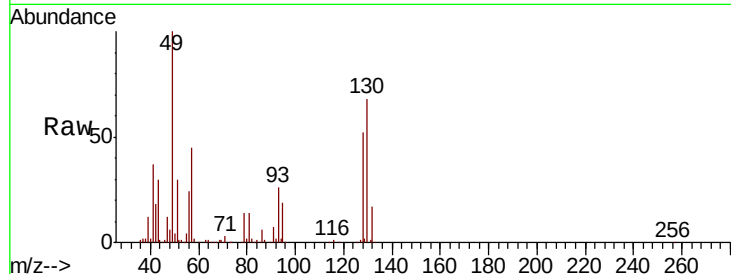
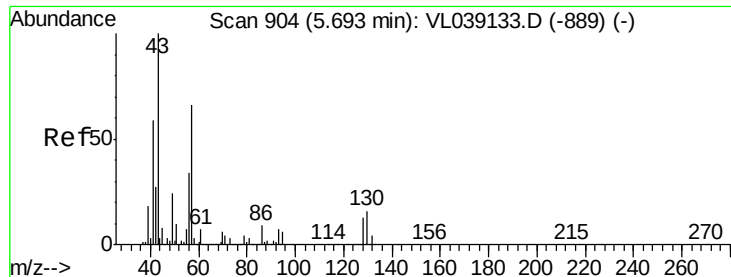
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

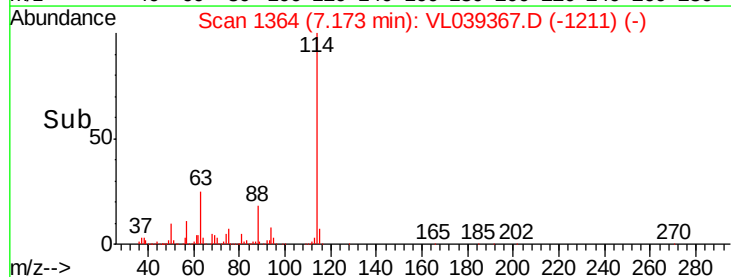
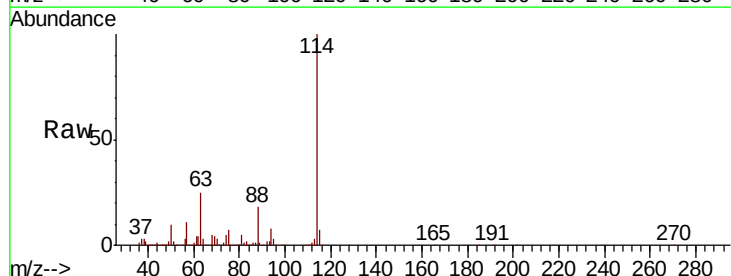
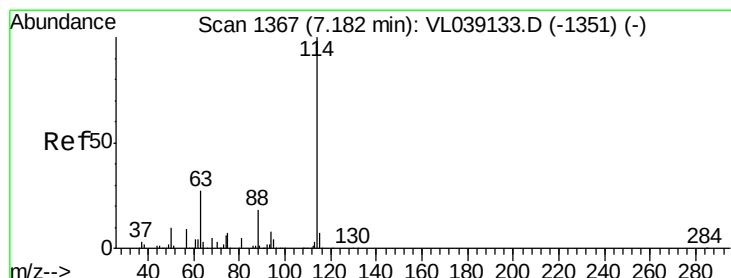
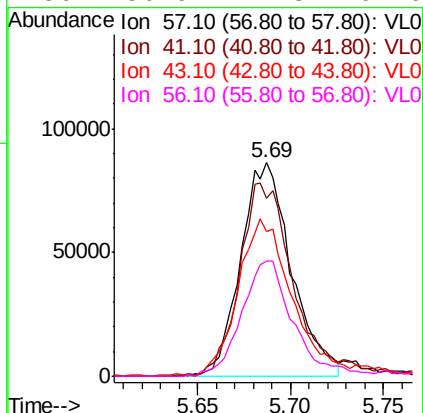
Ion 70.10 (69.80 to 70.80): VL0





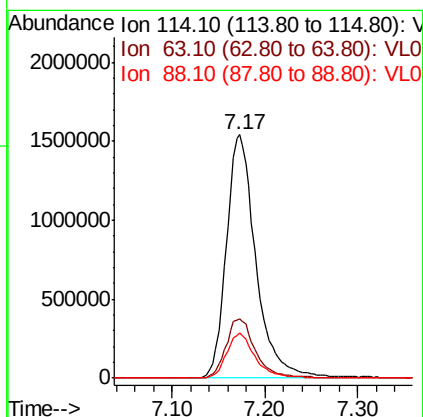
#26
Hexane
Concen: 1.326 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jun 2022 20:24

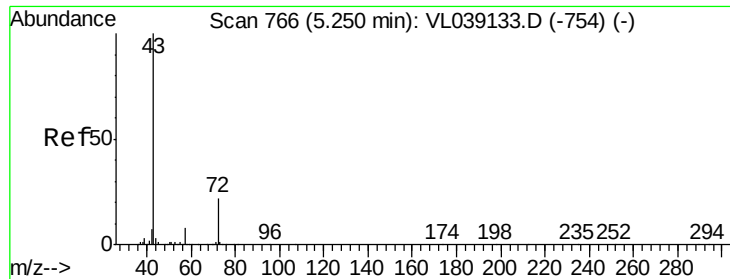
Tot Ion:	57	Resp:	164744
Ion	Ratio	Lower	Upper
57	100		
41	99.3	72.4	108.6
43	83.5	187.0	280.6#
56	56.9	41.8	62.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL039367.D
Acq: 27 Jun 2022 20:24

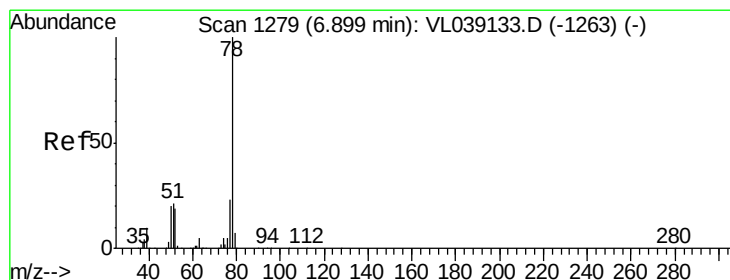
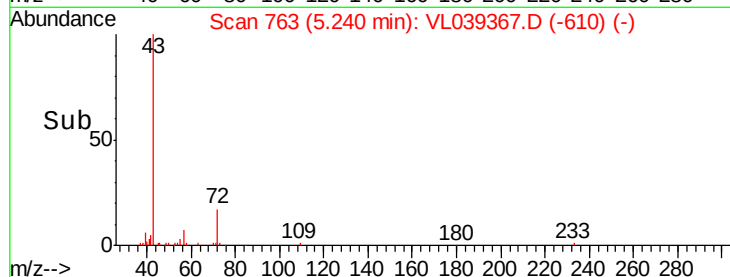
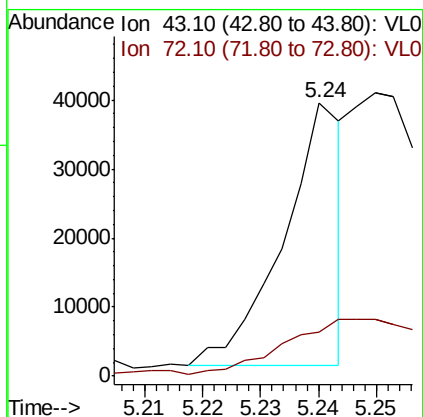
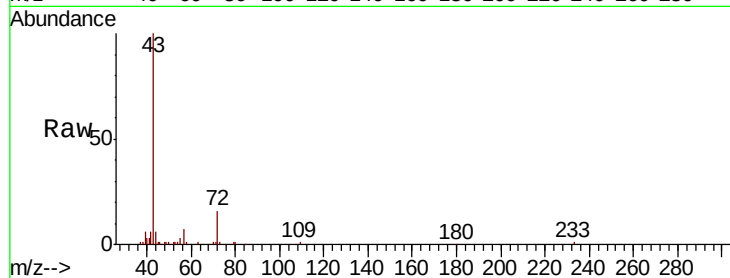
Tgt Ion:	114	Resp:	3391778
Ion	Ratio	Lower	Upper
114	100		
63	24.5	21.7	32.5
88	18.1	14.8	22.2





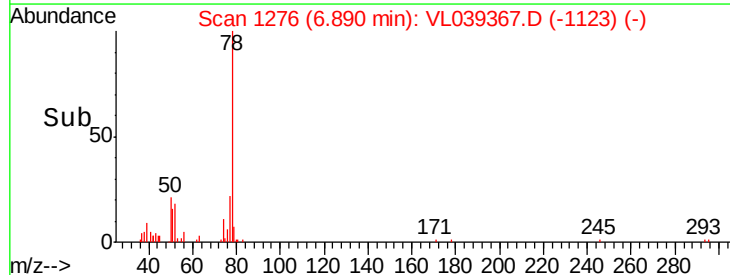
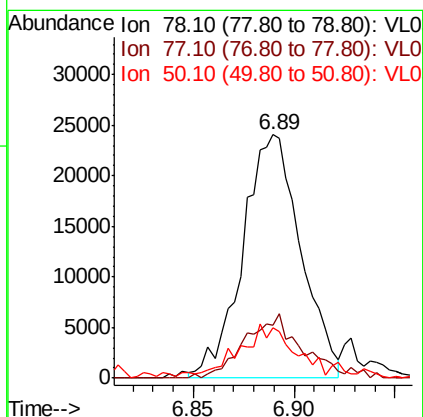
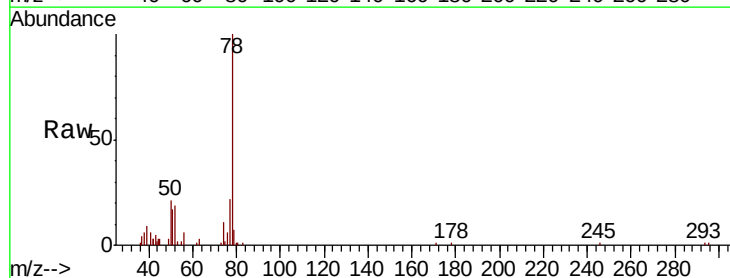
#34
2-Butanone
Concen: 0.148 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jun 2022 20:24 SG-4

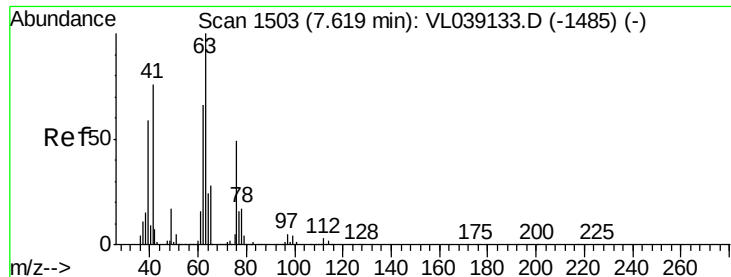
Tot Ion: 43 Resp: 27209
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#36
Benzene
Concen: 0.176 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL039367.D
Acq: 27 Jun 2022 20:24

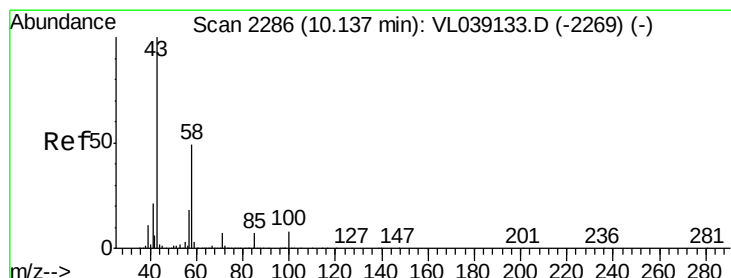
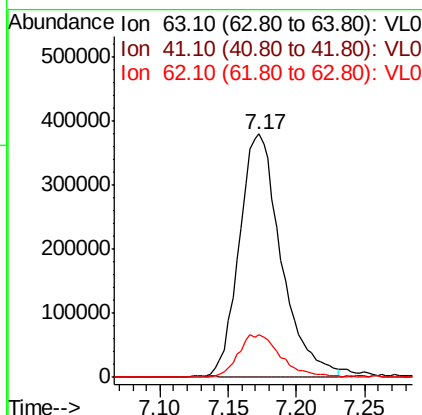
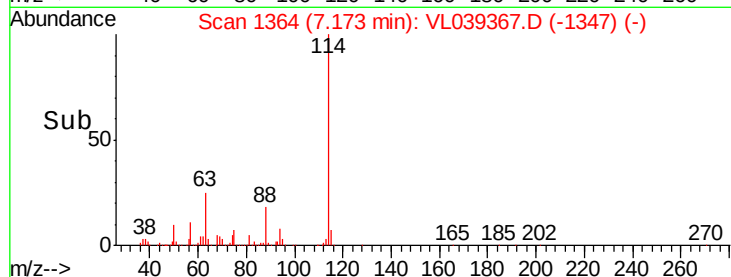
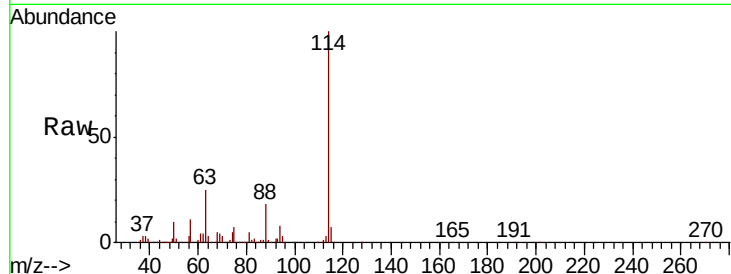
Tgt Ion: 78 Resp: 48374
Ion Ratio Lower Upper
78 100
77 22.4 18.6 27.8
50 19.0 15.8 23.8





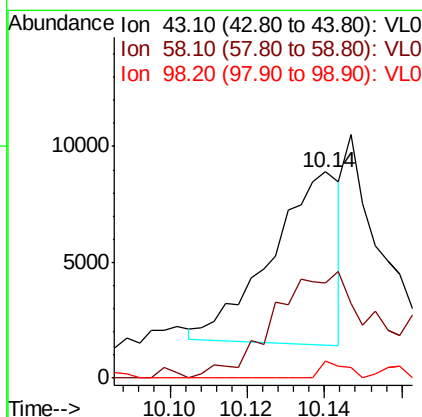
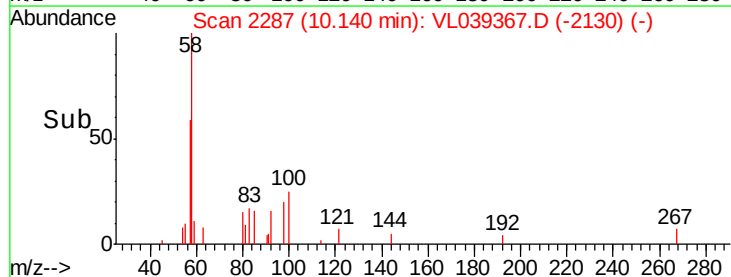
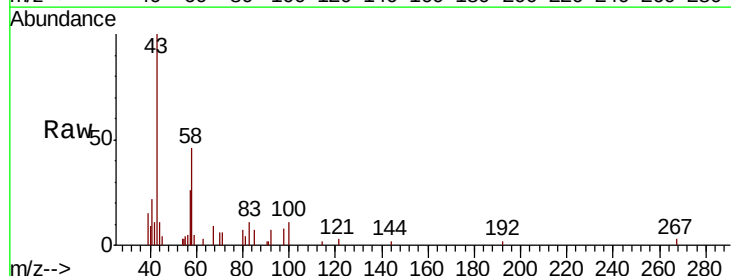
#39
 1,2-Dichloropropane
 Concen: 7.398 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 20:24

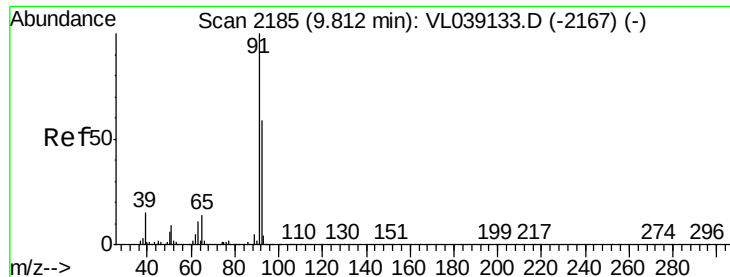
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	17.5	52.9	79.3#



#51
 2-Hexanone
 Concen: 0.043 ppbv
 RT: 10.14 min Scan# 2287
 Delta R.T. 0.00 min
 Lab File: VL039367.D
 Acq: 27 Jun 2022 20:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.0	60.0#
98	6.7	0.1	0.1#





#53

Toluene

Concen: 1.845 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

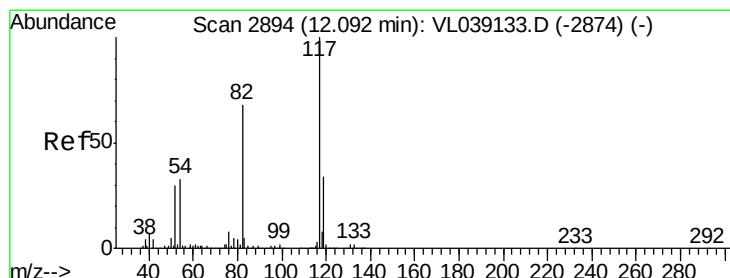
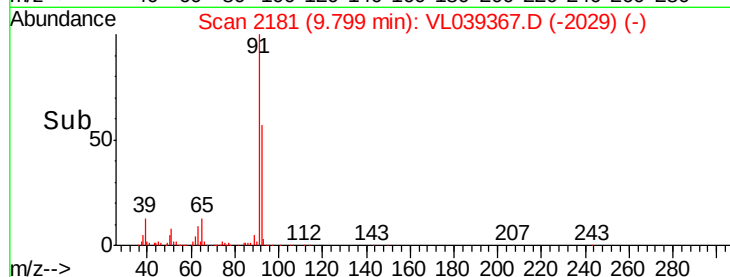
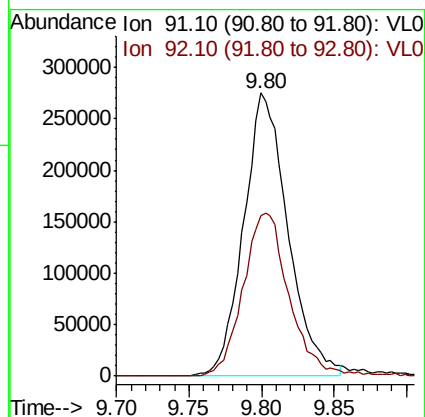
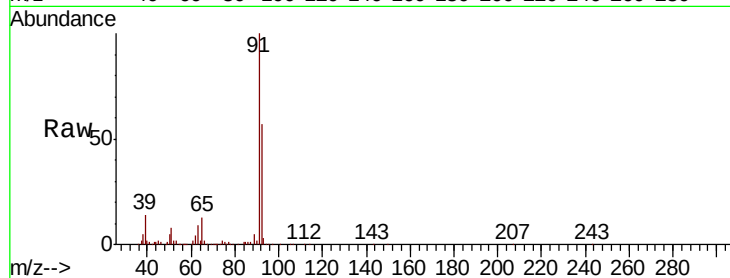
Acq: 27 Jun 2022 20:24 SG-4

Tot Ion: 91 Resp: 585022

Ion Ratio Lower Upper

91 100

92 60.2 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL039367.D

Acq: 27 Jun 2022 20:24

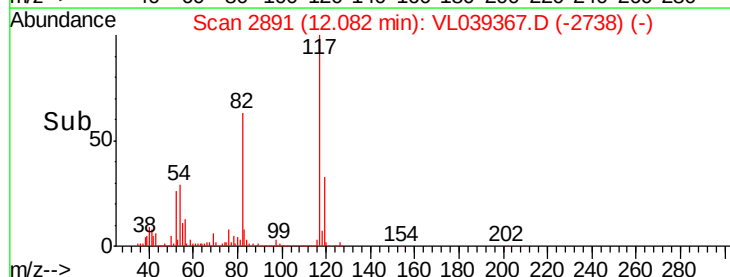
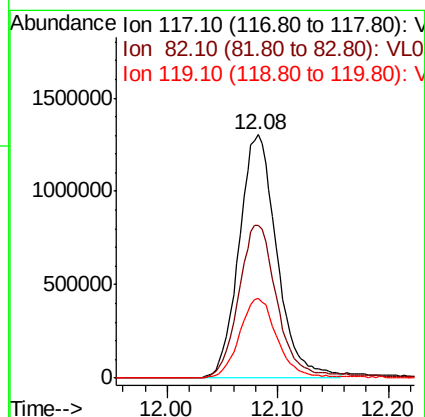
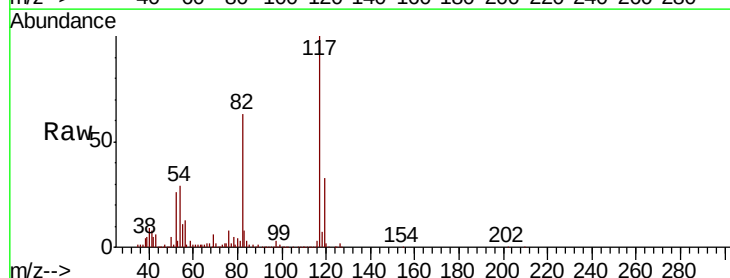
Tgt Ion: 117 Resp: 3100893

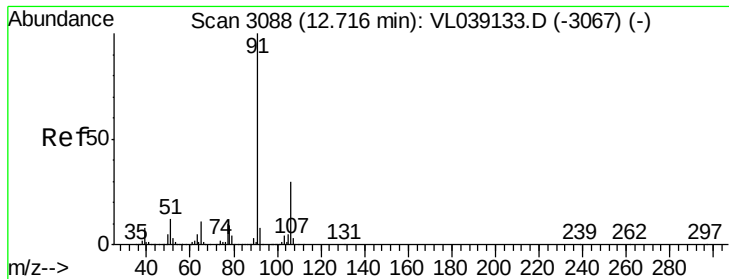
Ion Ratio Lower Upper

117 100

82 65.7 55.1 82.7

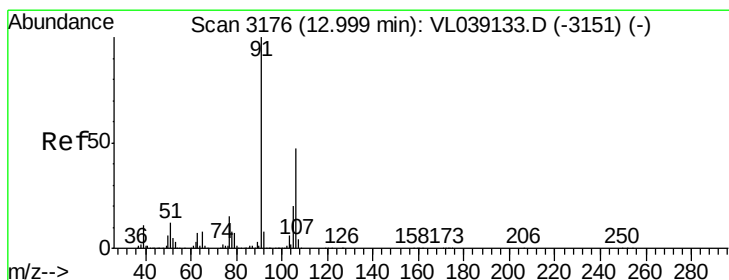
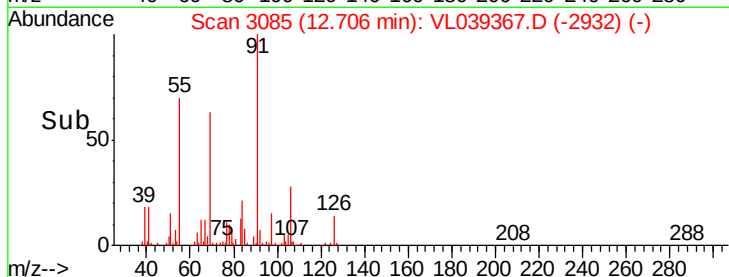
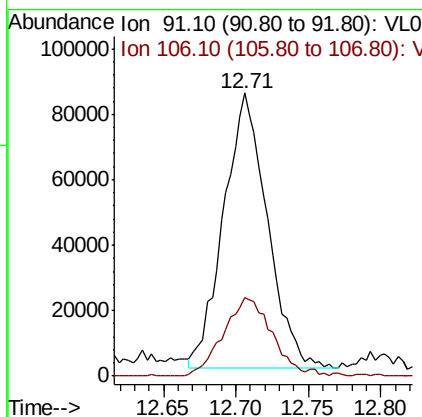
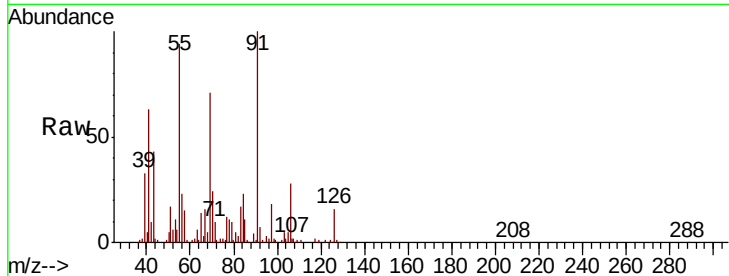
119 33.5 24.7 37.1





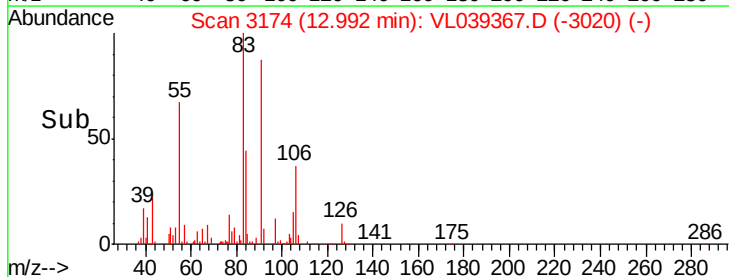
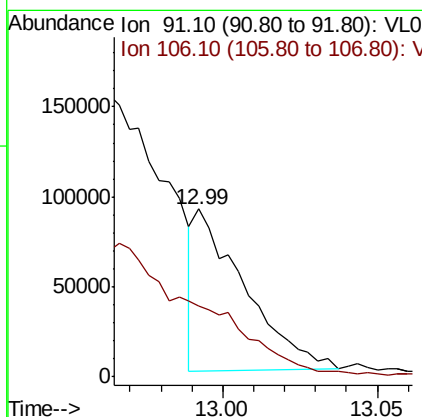
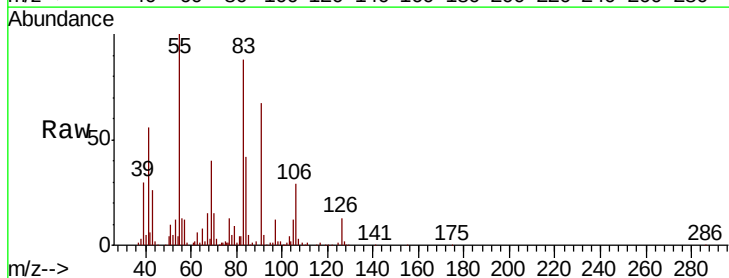
#58
Ethyl Benzene
Concen: 0.410 ppbv
RT: 12.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jun 2022 20:24

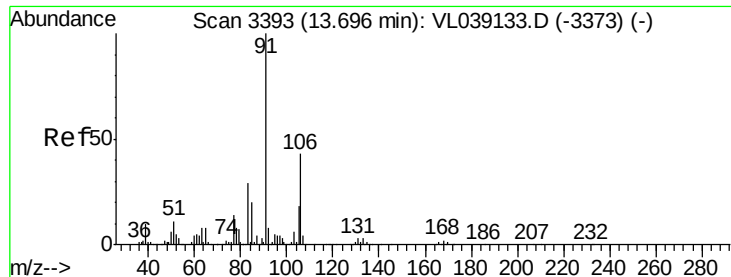
Tot Ion: 91 Resp: 175160
Ion Ratio Lower Upper
91 100
106 28.2 24.2 36.4



#59
m/p-Xylene
Concen: 0.266 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL039367.D
Acq: 27 Jun 2022 20:24

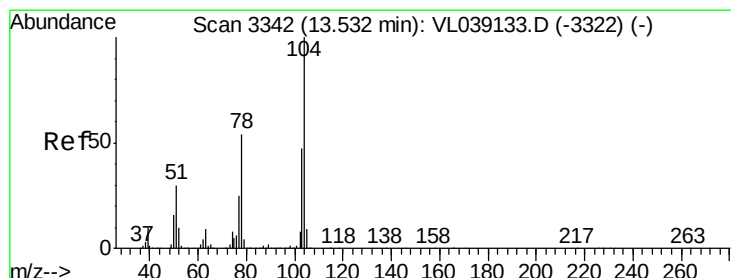
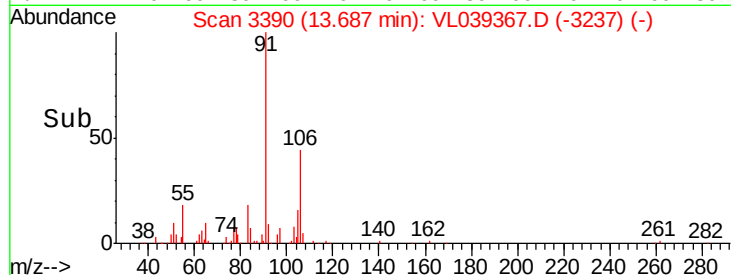
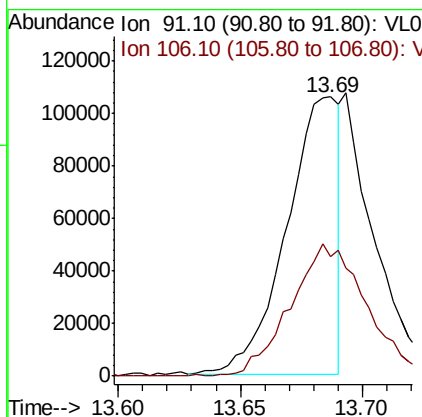
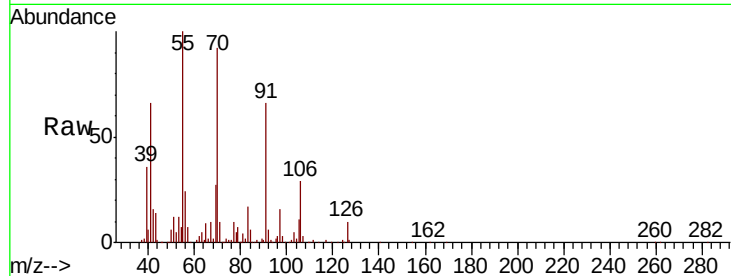
Tgt Ion: 91 Resp: 100079
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#





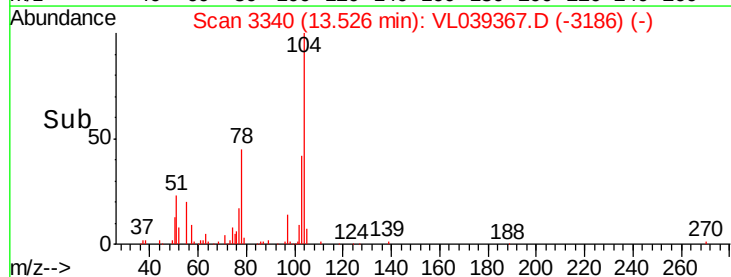
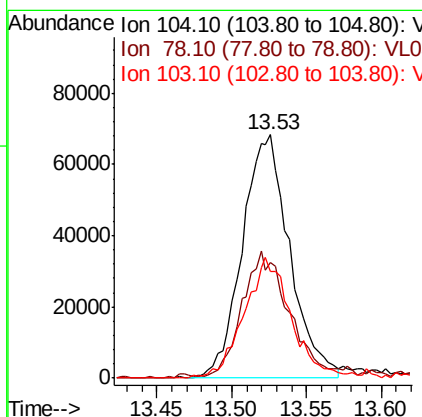
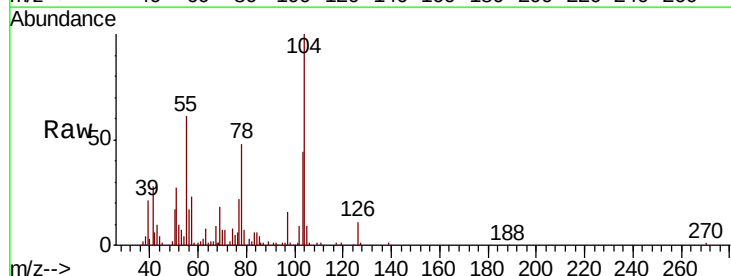
#60
o-Xylene
Concen: 0.444 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId : SG-4
Acq: 27 Jun 2022 20:24

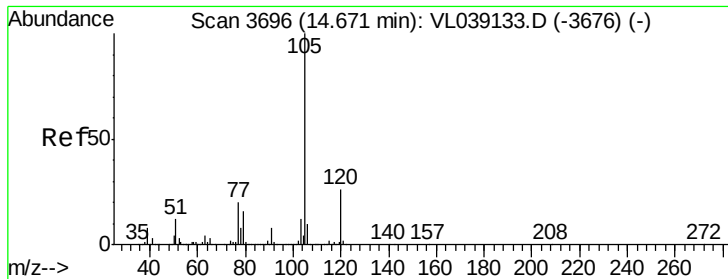
Tot Ion: 91 Resp: 156851
Ion Ratio Lower Upper
91 100
106 72.1 22.3 66.9#



#61
Styrene
Concen: 0.793 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. -0.01 min
Lab File: VL039367.D
Acq: 27 Jun 2022 20:24

Tgt Ion:104 Resp: 150157
Ion Ratio Lower Upper
104 100
78 56.4 45.7 68.5
103 51.0 39.6 59.4





#62

Isopropylbenzene

Concen: 14.014 ppbv

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

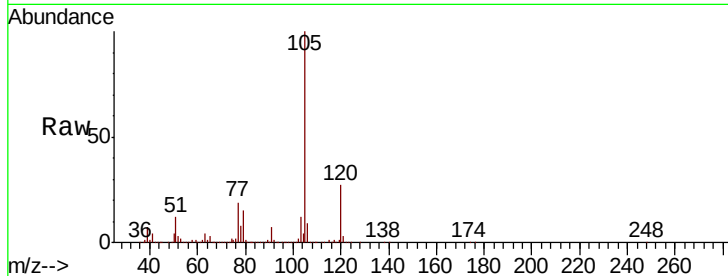
Acq: 27 Jun 2022 20:24

Tot Ion: 105 Resp: 7362021

Ion Ratio Lower Upper

105 100

120 26.3 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.66

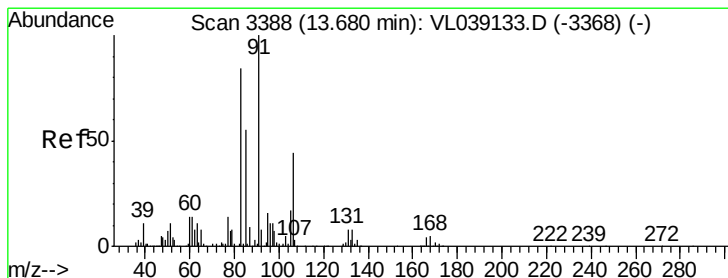
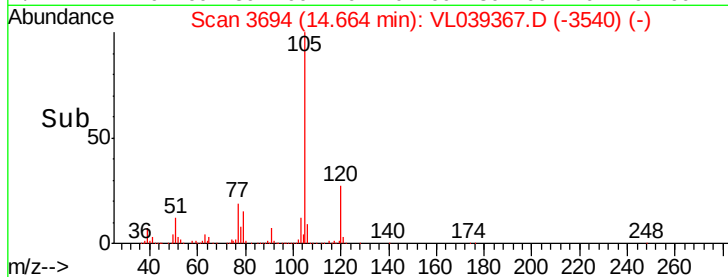
3000000

2000000

1000000

0

Time-->



#63

1,1,2,2-Tetrachloroethane

Concen: 0.044 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. -0.01 min

Lab File: VL039367.D

Acq: 27 Jun 2022 20:24

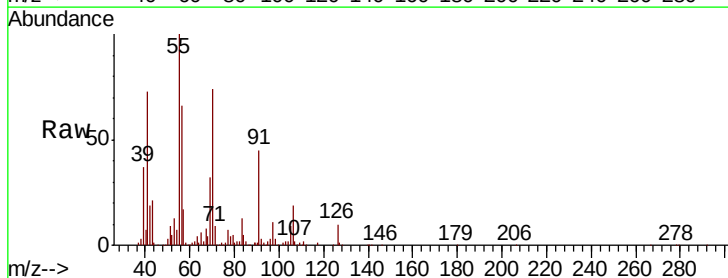
Tgt Ion: 83 Resp: 8691

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 0.0 33.0 99.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

25000

20000

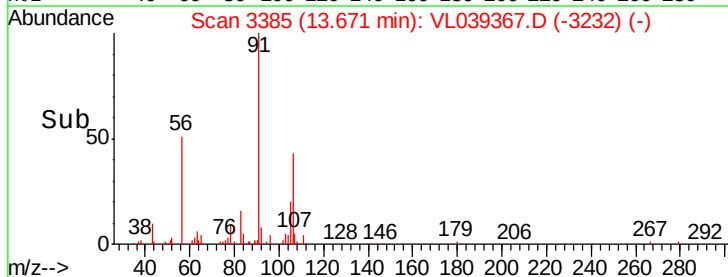
15000

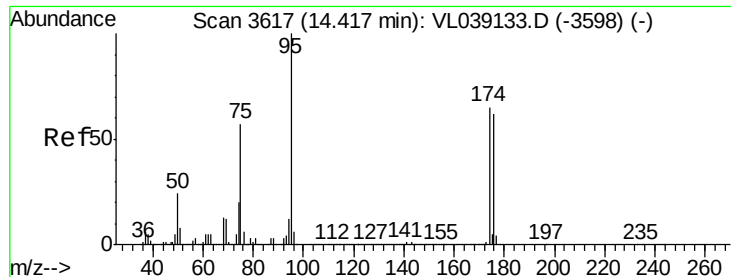
10000

5000

0

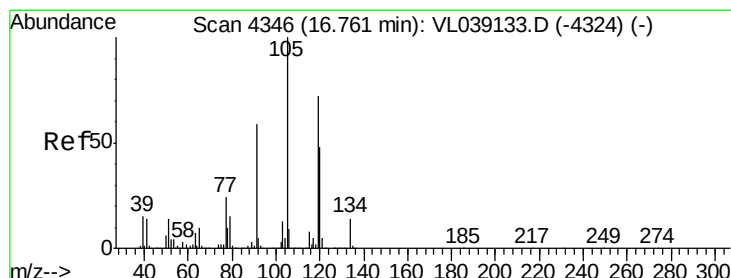
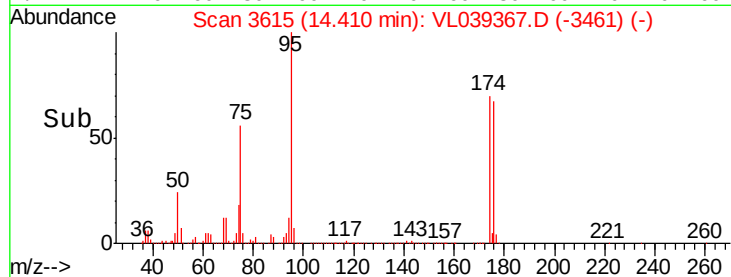
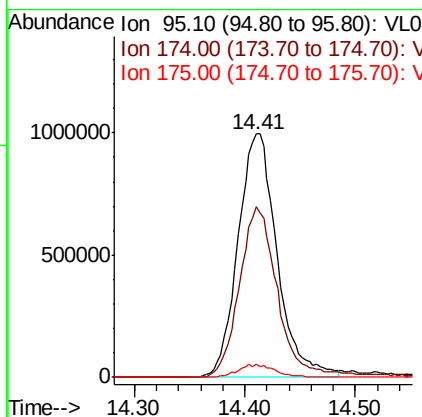
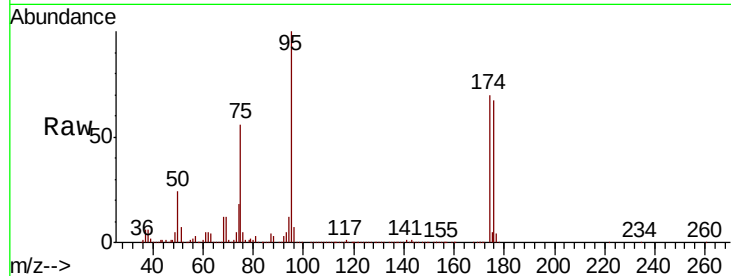
Time-->





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.511 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 20:24

Tot Ion: 95 Resp: 2438196
 Ion Ratio Lower Upper
 95 100
 174 70.5 53.8 80.8
 175 5.3 4.1 6.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.046 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.01 min
 Lab File: VL039367.D
 Acq: 27 Jun 2022 20:24

Tgt Ion: 105 Resp: 19288
 Ion Ratio Lower Upper
 105 100
 120 36.7 38.1 57.1#
 91 6.7 47.4 71.0#
 77 8.2 19.5 29.3#

