

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039225.D
 Acq On : 8 Jun 2022 1:34
 Operator : SY/AP
 Sample : N3214-14 0.03 LOQ
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 05:03:29 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

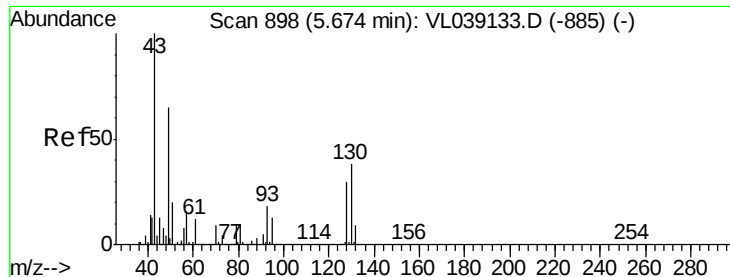
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	564859	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1323256	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1104041	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	977679	10.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	4127	0.057	ppbv #	76
7) Chloroethane	3.57	64	608	0.051	ppbv #	85
8) Dichlorotetrafluoroethane	3.20	85	2964	0.033	ppbv #	15
9) Propene	3.02	41	2250	0.072	ppbv #	32
11) Trichlorofluoromethane	3.96	101	2796	0.031	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1971	0.033	ppbv #	12
13) Ethanol	3.61	45	154	0.090	ppbv #	100
16) 1,3-Butadiene	3.34	39	1335	0.042	ppbv #	48
20) Methylene Chloride	4.35	84	4875	0.197	ppbv #	72
21) Allyl Chloride	4.42	41	1840	0.046	ppbv #	31
39) 1,2-Dichloropropane	7.23	63	6632	0.155	ppbv #	24
42) Bromodichloromethane	7.80	83	3196	0.033	ppbv #	71

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL039225.D

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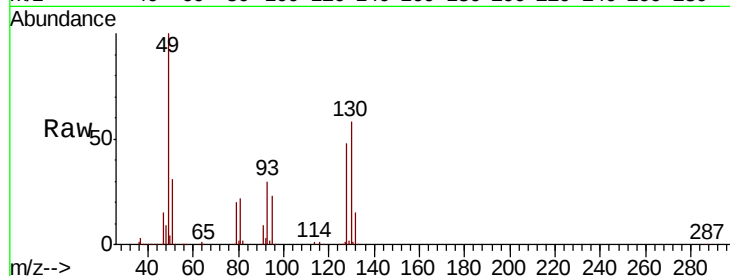
Tot Ion: 49 Resp: 564859

Ion Ratio Lower Upper

49 100

128 47.4 24.7 74.1

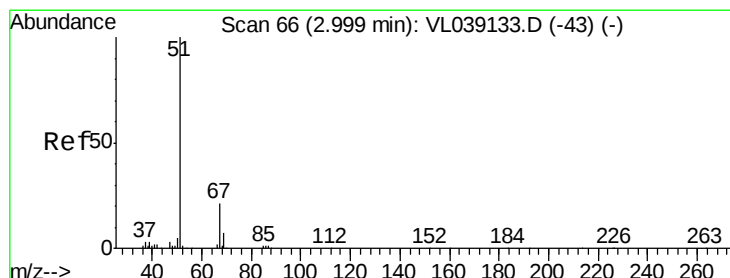
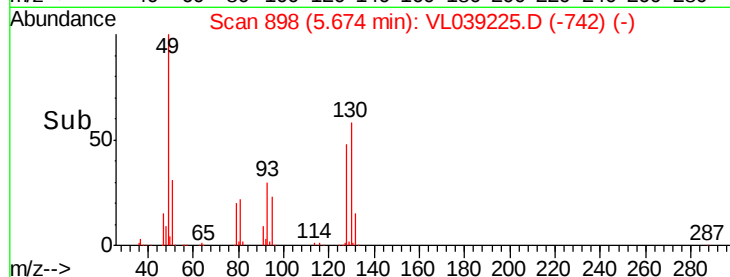
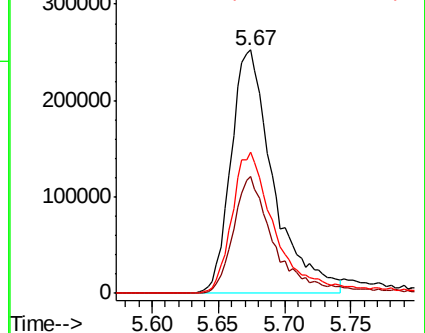
130 62.0 31.4 94.0



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



#3

Chlorodifluoromethane

Concen: 0.057 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL039225.D

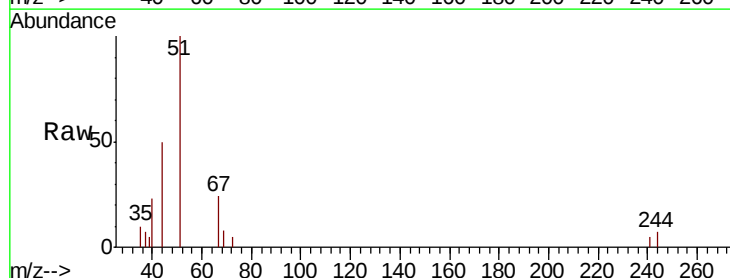
Acq: 8 Jun 2022 1:34

Tgt Ion: 51 Resp: 4127

Ion Ratio Lower Upper

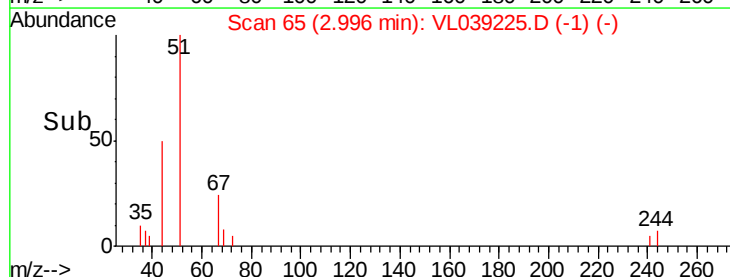
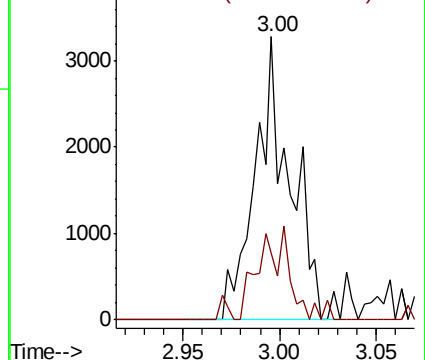
51 100

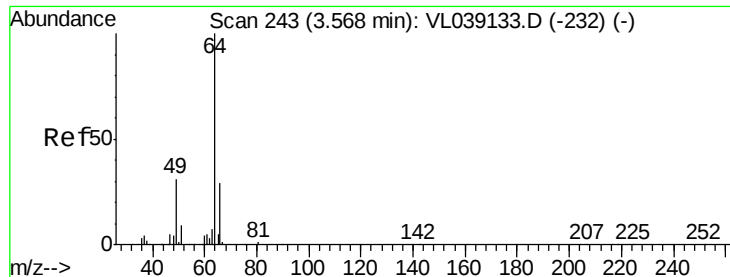
67 31.4 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#7

Chloroethane

Concen: 0.051 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL039225.D

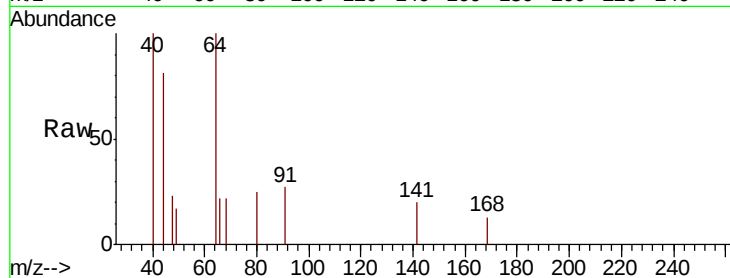
Acq: 8 Jun 2022 1:34

Tot Ion: 64 Resp: 608

Ion Ratio Lower Upper

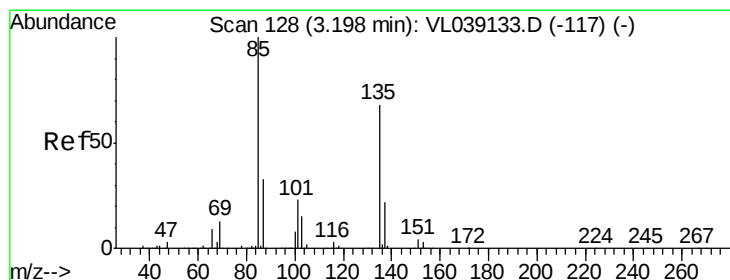
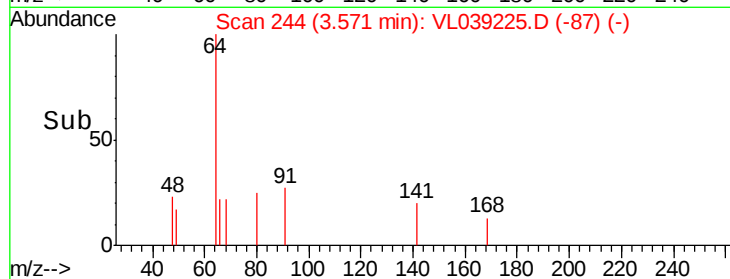
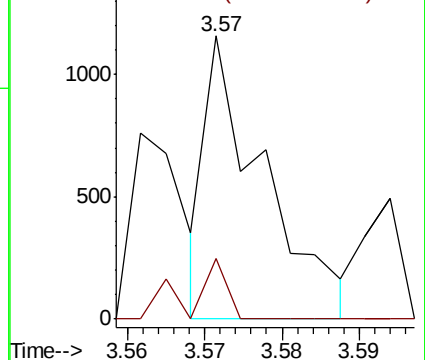
64 100

66 21.5 23.6 35.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.033 ppbv

RT: 3.20 min Scan# 127

Delta R.T. -0.00 min

Lab File: VL039225.D

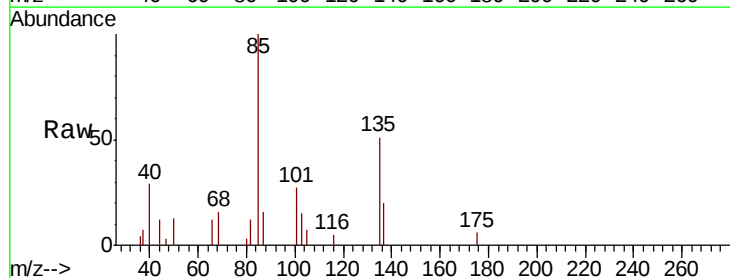
Acq: 8 Jun 2022 1:34

Tgt Ion: 85 Resp: 2964

Ion Ratio Lower Upper

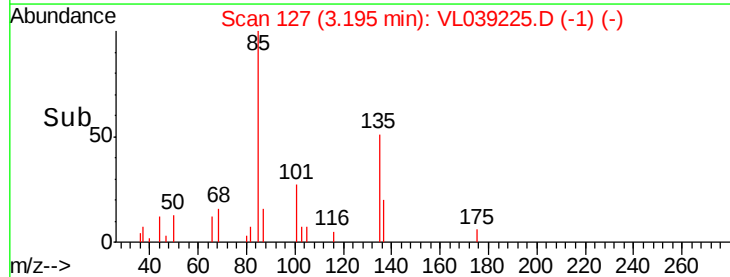
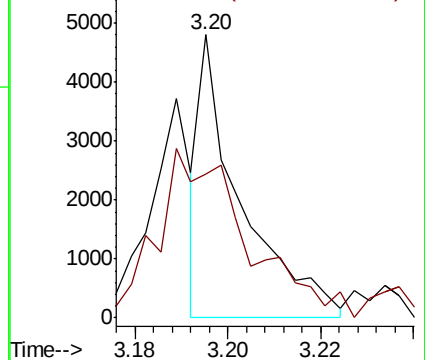
85 100

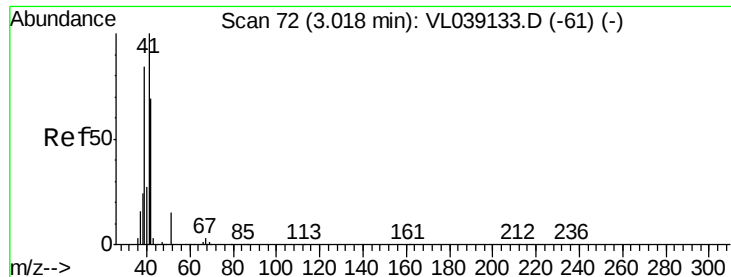
135 0.0 55.0 82.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.072 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL039225.D

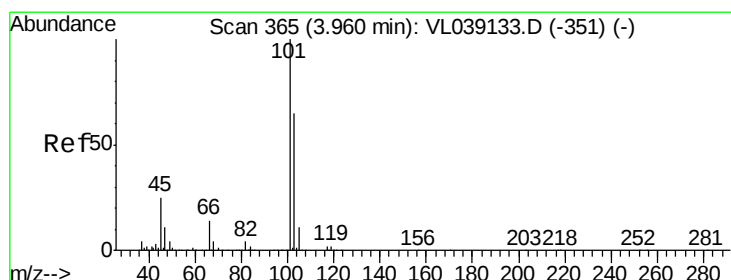
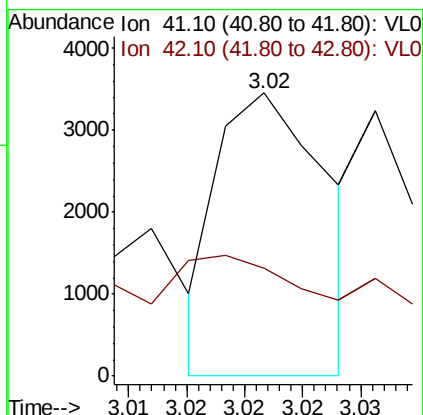
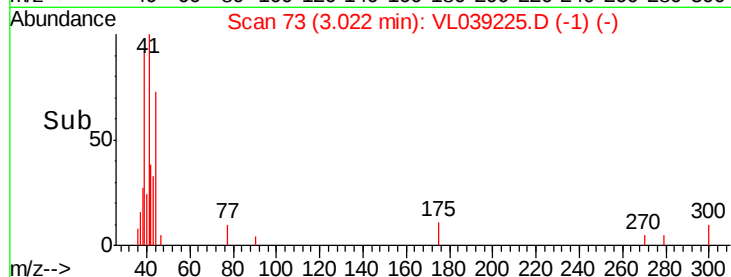
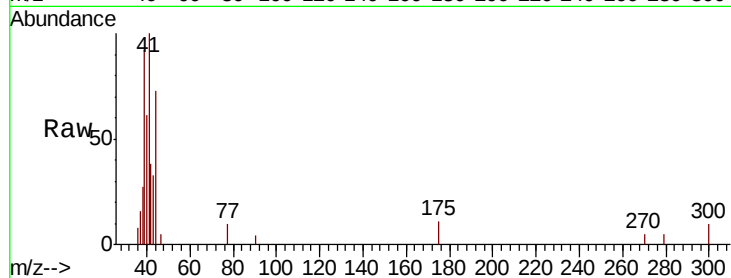
Acq: 8 Jun 2022 1:34

Tot Ion: 41 Resp: 2250

Ion Ratio Lower Upper

41 100

42 125.1 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL039225.D

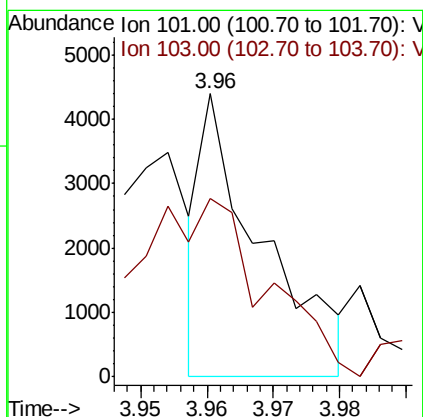
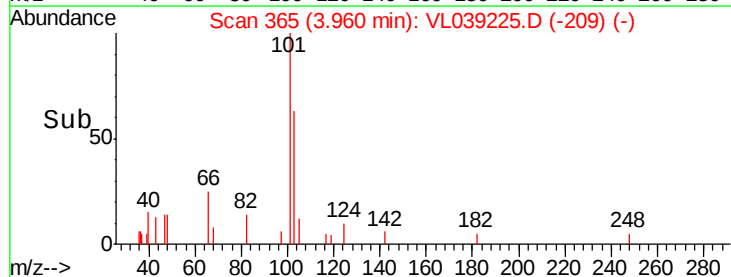
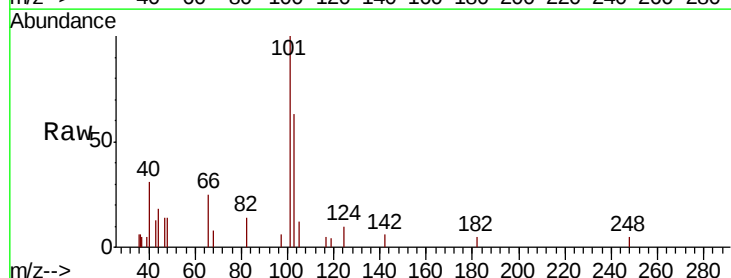
Acq: 8 Jun 2022 1:34

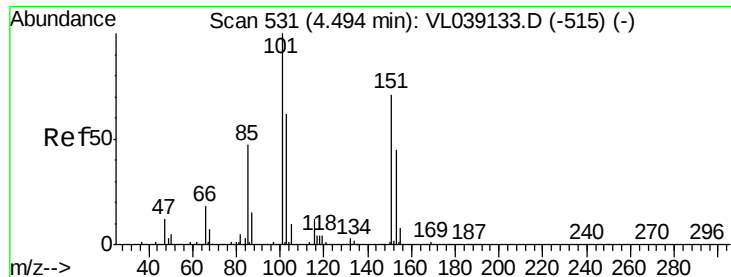
Tgt Ion: 101 Resp: 2796

Ion Ratio Lower Upper

101 100

103 74.1 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.00 min

Lab File: VL039225.D

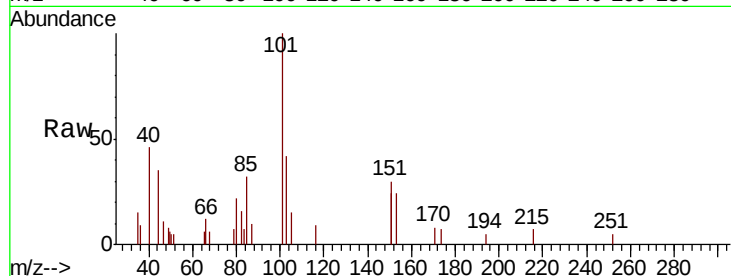
Acq: 8 Jun 2022 1:34

Tot Ion: 101 Resp: 1971

Ion Ratio Lower Upper

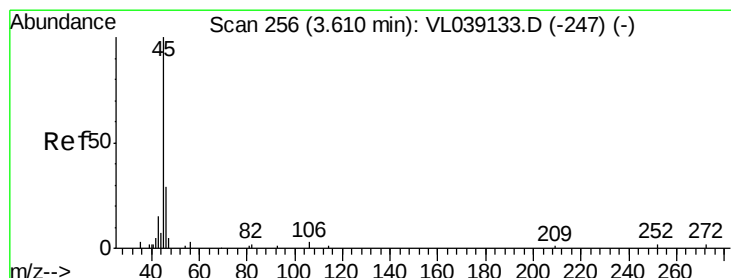
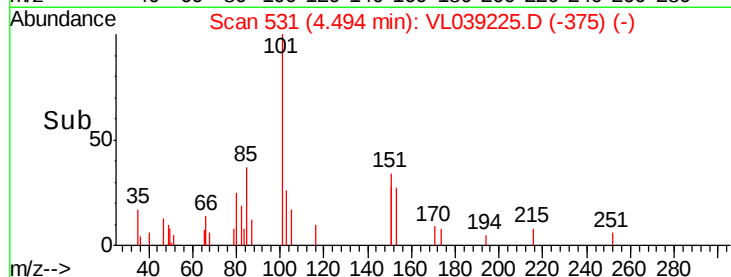
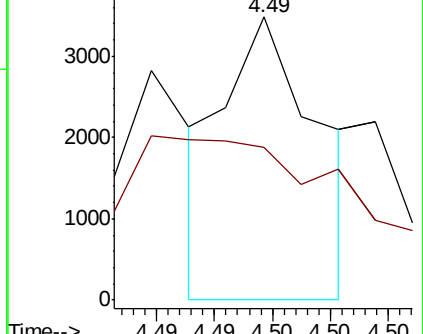
101 100

151 0.0 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.090 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL039225.D

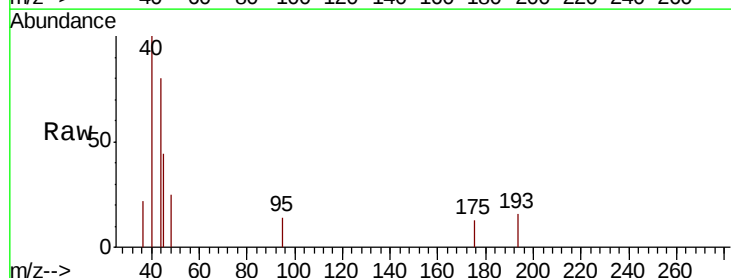
Acq: 8 Jun 2022 1:34

Tgt Ion: 45 Resp: 154

Ion Ratio Lower Upper

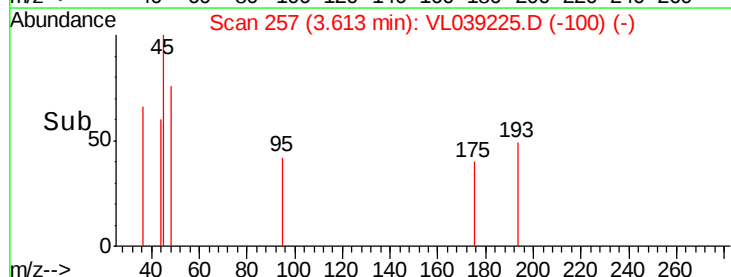
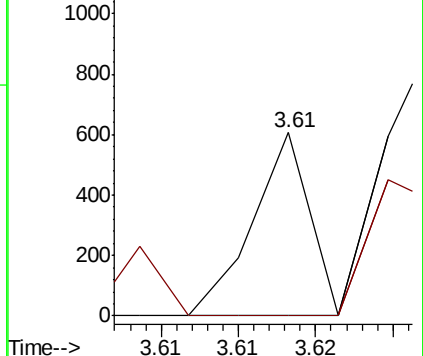
45 100

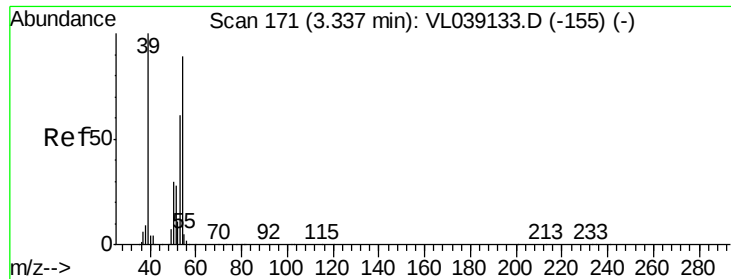
46 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

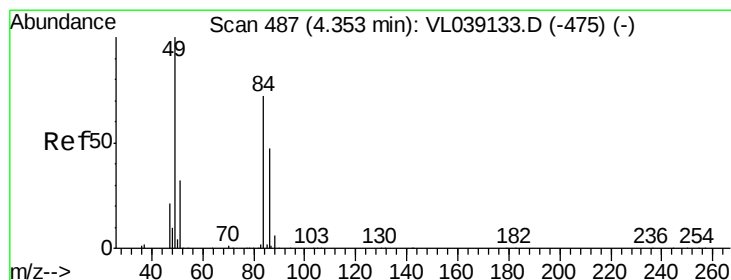
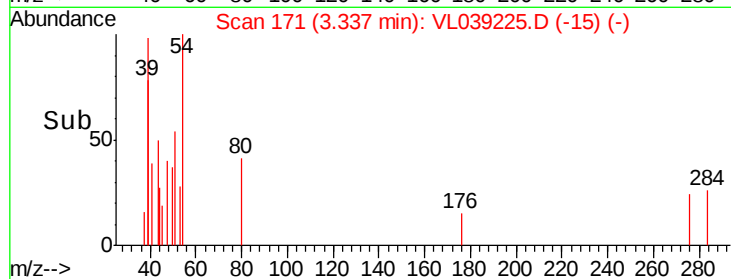
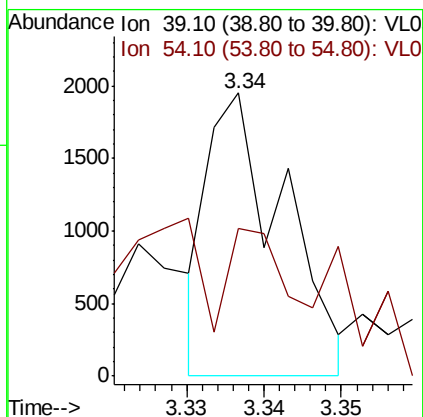
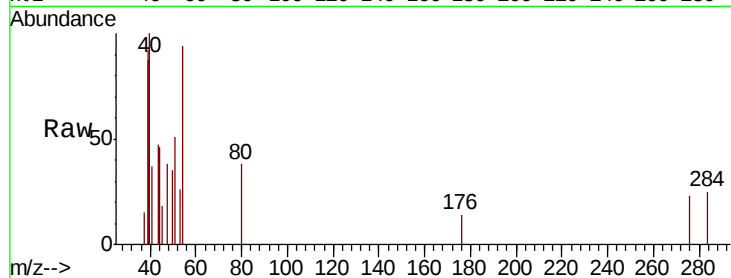
Ion 46.10 (45.80 to 46.80): VL0





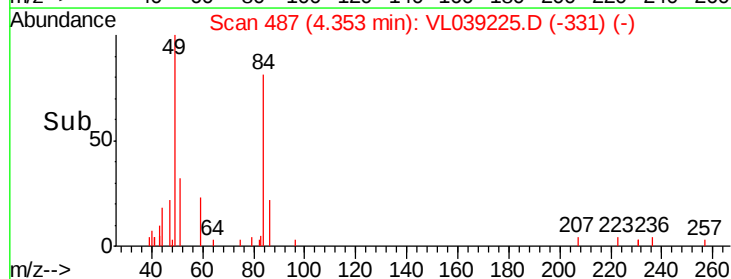
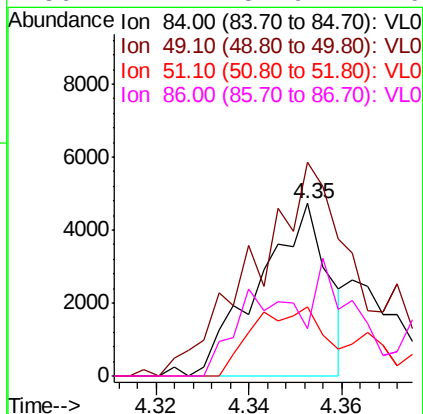
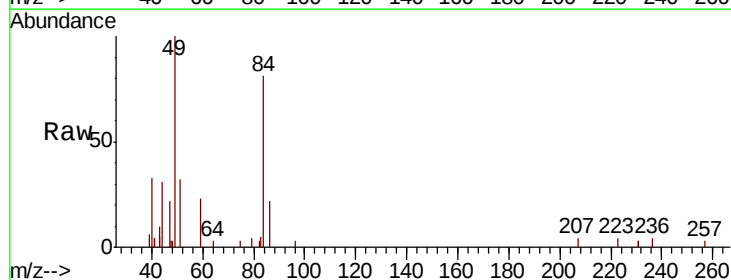
#16
 1,3-Butadiene
 Concen: 0.042 ppbv
 RT: 3.34 min Scan# 171
 Delta R.T. 0.00 min
 Lab File: VL039225.D
 Acq: 8 Jun 2022 1:34

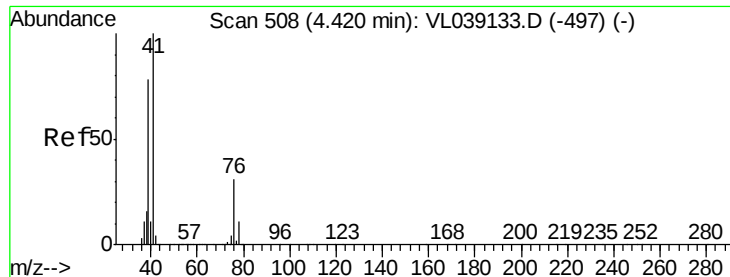
Tot Ion: 39 Resp: 1335
 Ion Ratio Lower Upper
 39 100
 54 129.2 65.8 98.6#



#20
 Methylene Chloride
 Concen: 0.197 ppbv
 RT: 4.35 min Scan# 487
 Delta R.T. 0.00 min
 Lab File: VL039225.D
 Acq: 8 Jun 2022 1:34

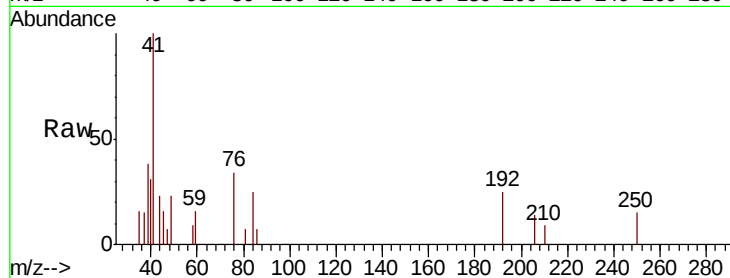
Tgt Ion: 84 Resp: 4875
 Ion Ratio Lower Upper
 84 100
 49 108.8 111.1 166.7#
 51 40.2 35.3 52.9
 86 27.2 51.9 77.9#



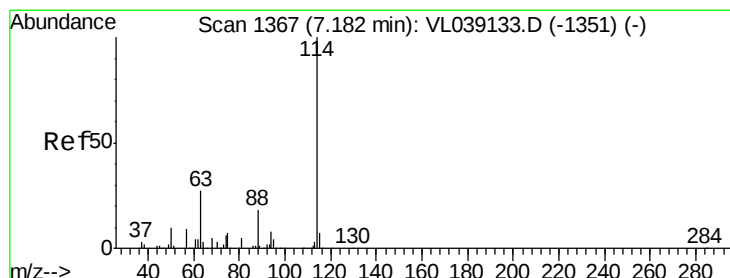
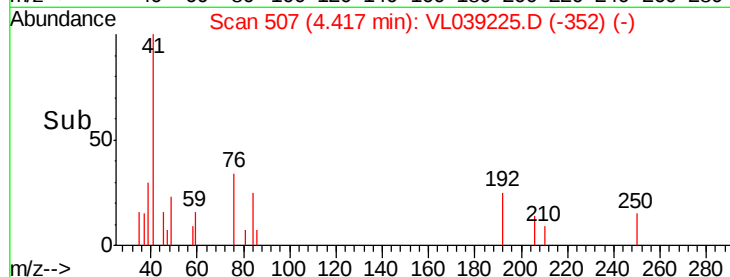
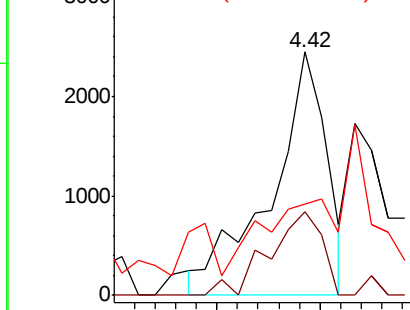


#21
Allvl Chloride
Concen: 0.046 ppbv
RT: 4.42 min Scan# 507
Delta R.T. -0.00 min
Lab File: VL039225.D
Acq: 8 Jun 2022 1:34

Tot Ion: 41 Resp: 1840
Ion Ratio Lower Upper
41 100
76 38.9 24.2 36.2#
39 0.0 62.2 93.2#

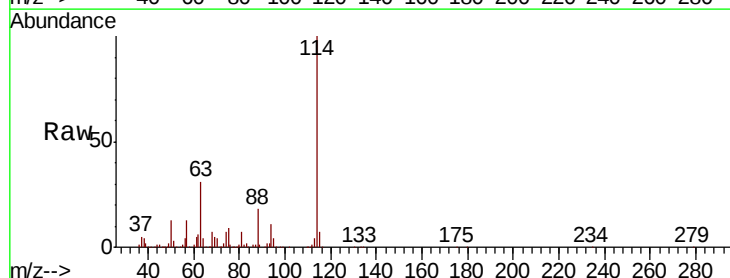


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

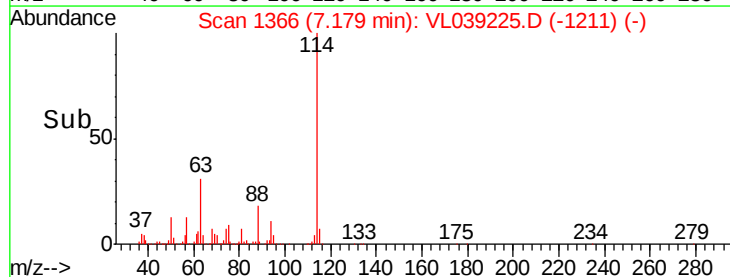
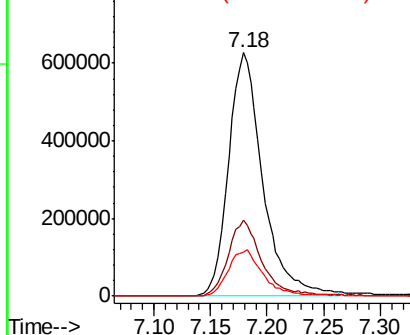


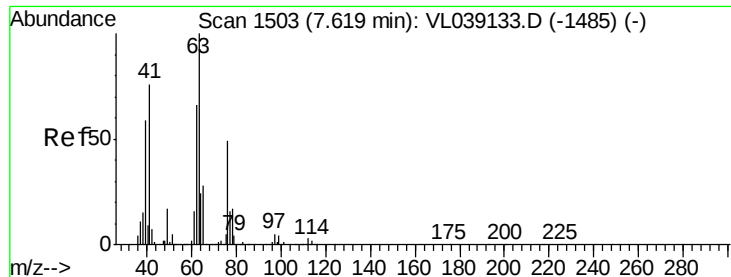
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL039225.D
Acq: 8 Jun 2022 1:34

Tgt Ion: 114 Resp: 1323256
Ion Ratio Lower Upper
114 100
63 30.9 21.7 32.5
88 19.8 14.8 22.2



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 0.155 ppbv

RT: 7.23 min Scan# 1381

Delta R.T. -0.39 min

Lab File: VL039225.D

Acq: 8 Jun 2022 1:34

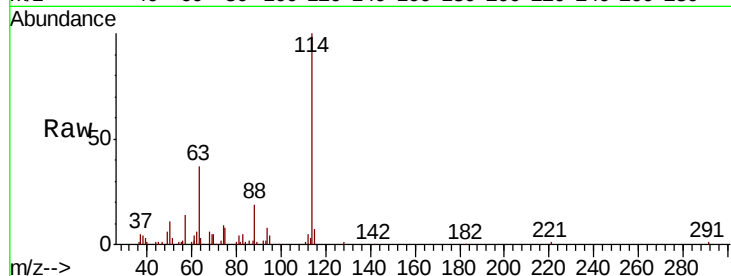
Tot Ion: 63 Resp: 6632

Ion Ratio Lower Upper

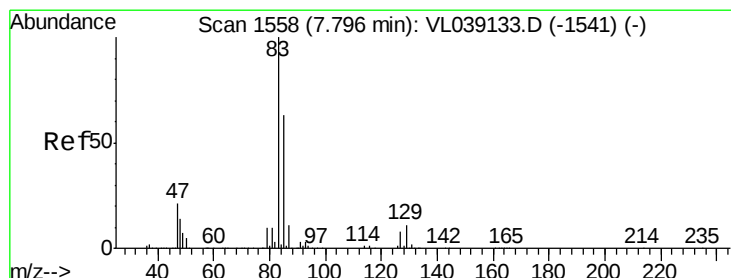
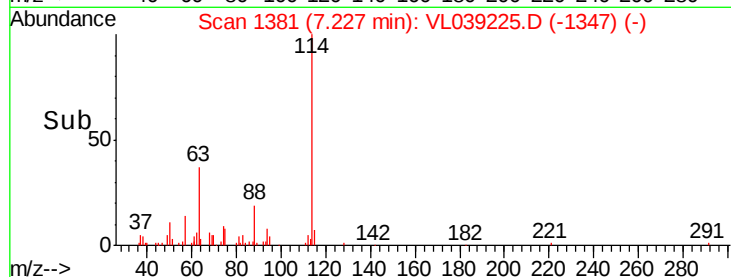
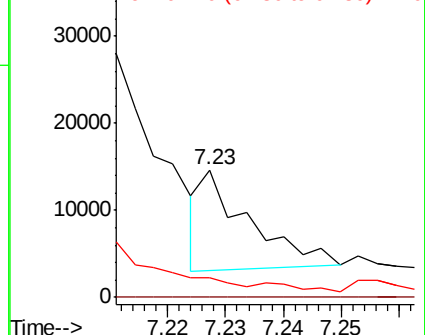
63 100

41 0.0 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



#42

Bromodichloromethane

Concen: 0.033 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VL039225.D

Acq: 8 Jun 2022 1:34

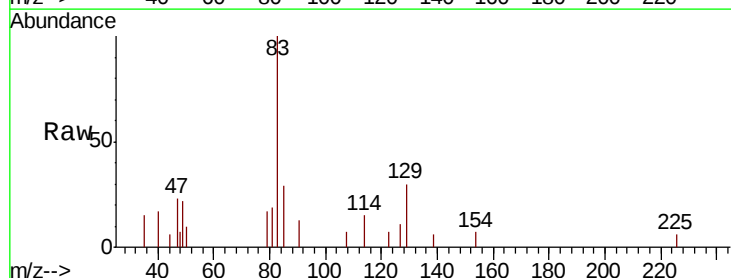
Tgt Ion: 83 Resp: 3196

Ion Ratio Lower Upper

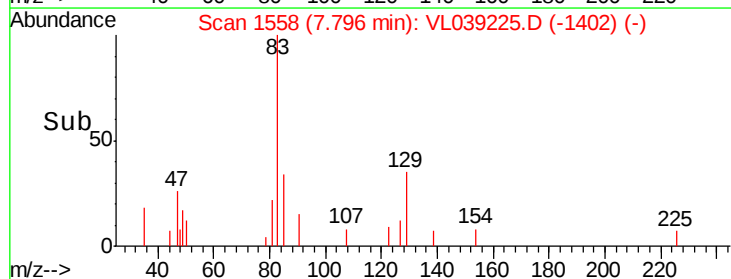
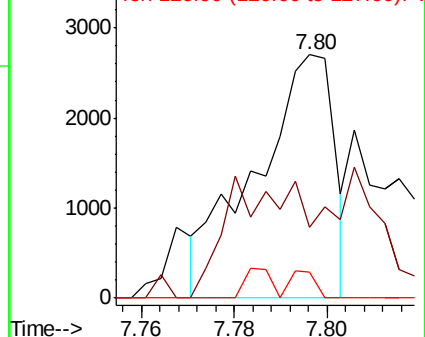
83 100

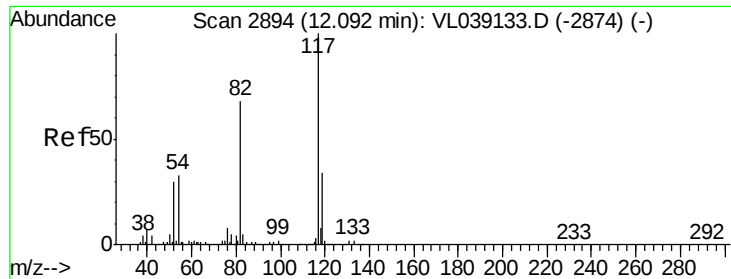
85 39.1 50.2 75.4#

127 14.3 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

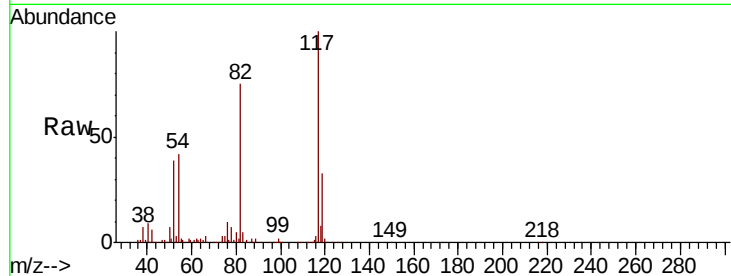




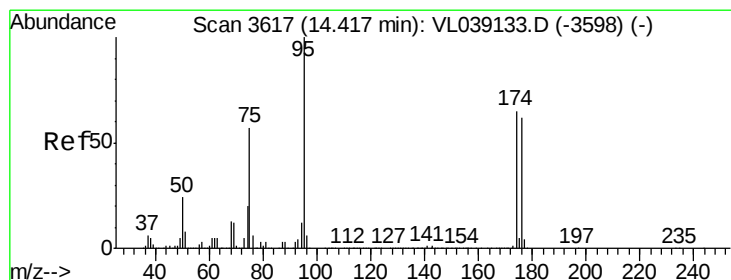
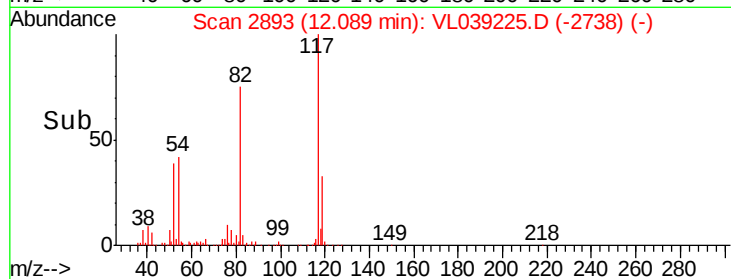
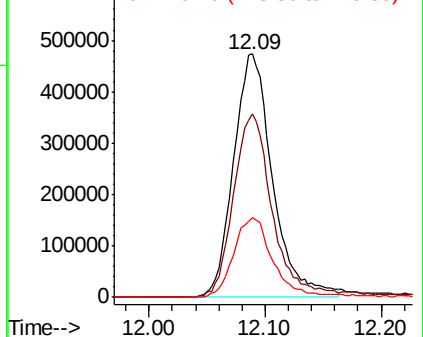
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL039225.D
Acq: 8 Jun 2022 1:34

Tot Ion:117 Resp: 1104041

Ion	Ratio	Lower	Upper
117	100		
82	77.7	55.1	82.7
119	33.4	24.7	37.1



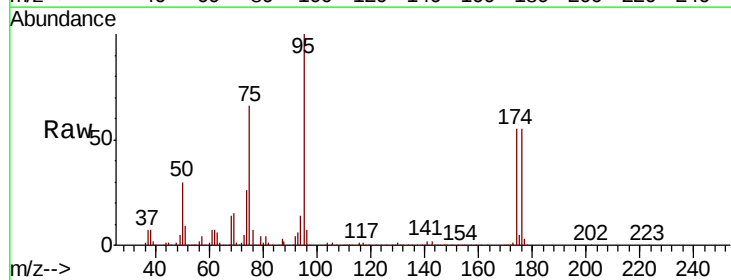
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.711 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.00 min
Lab File: VL039225.D
Acq: 8 Jun 2022 1:34

Tgt Ion: 95 Resp: 977679

Ion	Ratio	Lower	Upper
95	100		
174	60.6	53.8	80.8
175	4.2	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

