

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036976.D
 Acq On : 18 May 2021 19:43
 Operator : SY/AP
 Sample : M2430-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: May 19 03:15:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1228653	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3644391	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3327296	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2489398	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

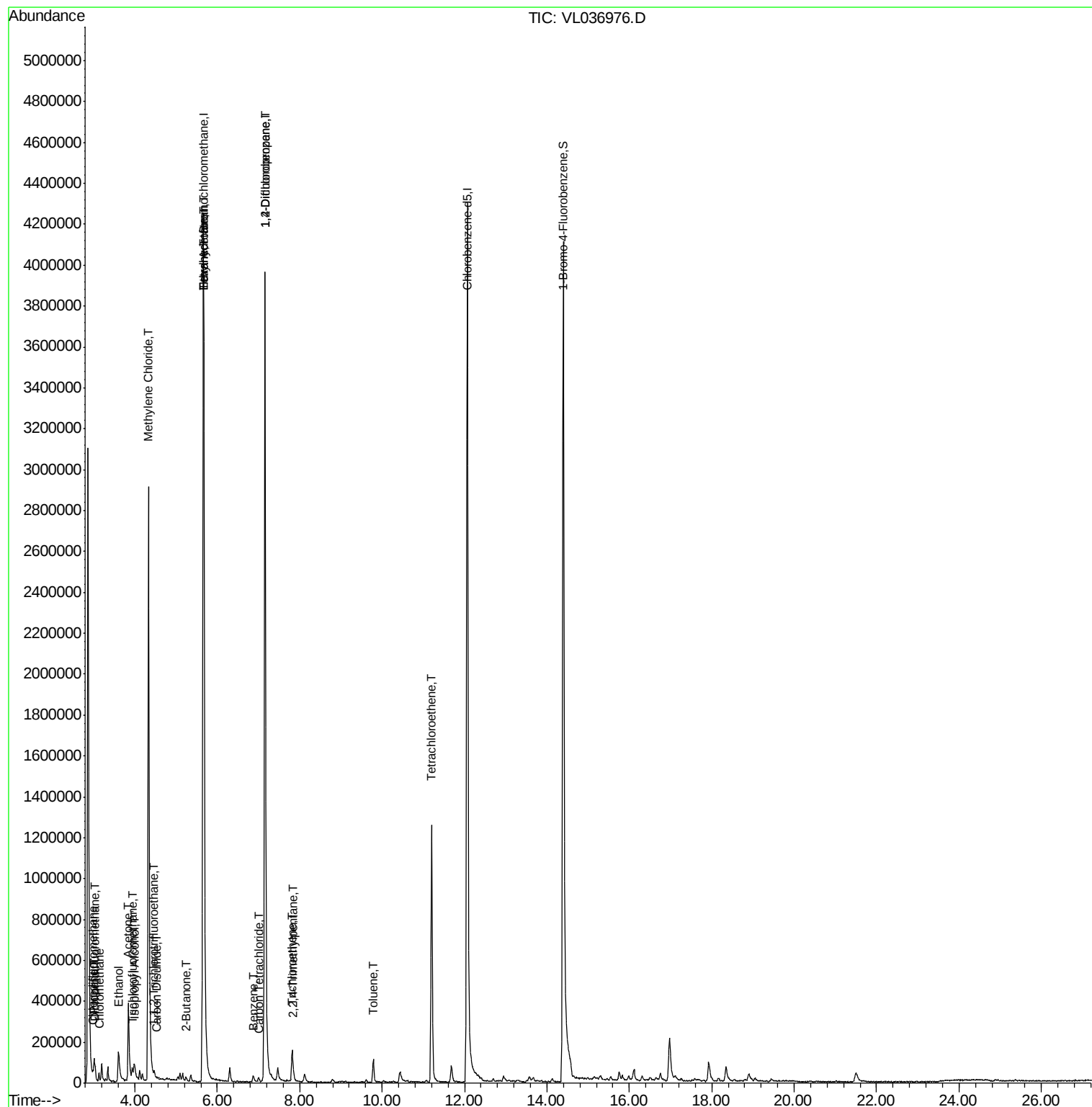
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	47433	0.228 ppbv	95
3) Chlorodifluoromethane	2.98	51	69999	0.311 ppbv #	88
4) Chloromethane	3.13	50	39085	0.510 ppbv	97
9) Propene	3.01	41	27911	0.346 ppbv	89
11) Trichlorofluoromethane	3.93	101	38560	0.200 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.47	101	6883	0.050 ppbv #	67
13) Ethanol	3.60	45	225363	20.956 ppbv	98
15) Acetone	3.84	43	512435	4.072 ppbv	98
19) Isopropyl Alcohol	3.98	45	110694	1.636 ppbv #	39
20) Methylene Chloride	4.33	84	1299500	19.264 ppbv	97
25) Ethyl Acetate	5.67	43	1133420	3.748 ppbv #	77
26) Hexane	5.67	57	1632519	10.567 ppbv #	47
27) Carbon Disulfide	4.54	76	5404	0.035 ppbv #	1
34) 2-Butanone	5.24	43	24471	0.184 ppbv #	81
35) Carbon Tetrachloride	7.00	117	11272	0.047 ppbv #	81
36) Benzene	6.87	78	10287	0.033 ppbv #	86
38) Trichloroethene	7.81	130	54726	0.408 ppbv	89
39) 1,2-Dichloropropane	7.16	63	840269	6.949 ppbv #	26
41) Tetrahydrofuran	5.67	42	587654	7.775 ppbv #	50
44) 2,2,4-Trimethylpentane	7.84	57	17953	0.033 ppbv #	14
52) Tetrachloroethene	11.20	164	346762	2.778 ppbv	98
53) Toluene	9.79	91	85323	0.228 ppbv	98

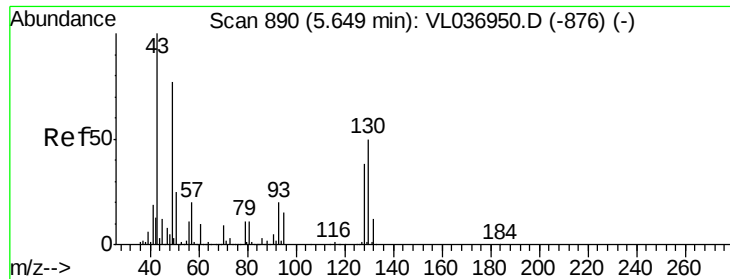
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
Data File : VL036976.D
Acq On : 18 May 2021 19:43
Operator : SY/AP
Sample : M2430-05
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: May 19 03:15:09 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

QA1

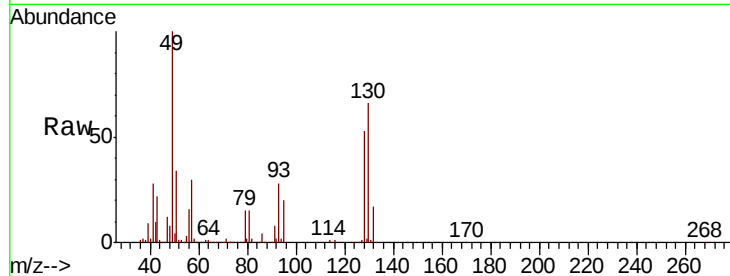
Tot Ion: 49 Resp: 1228653

Ion Ratio Lower Upper

49 100

128 55.5 26.9 80.7

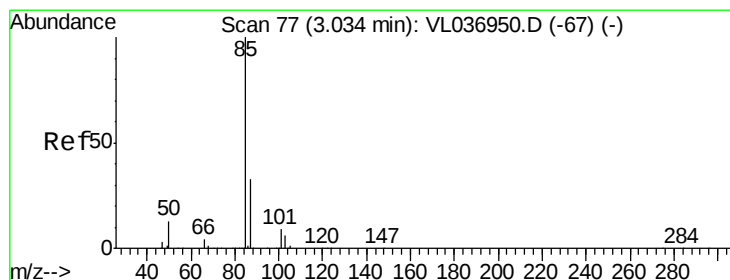
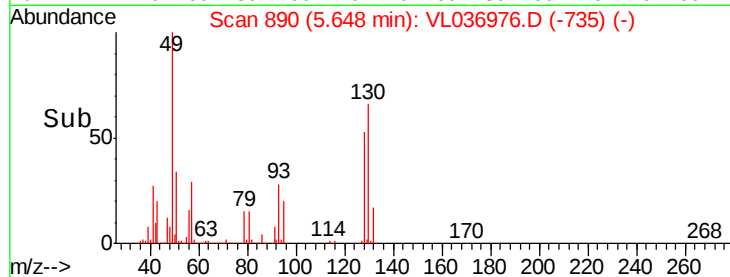
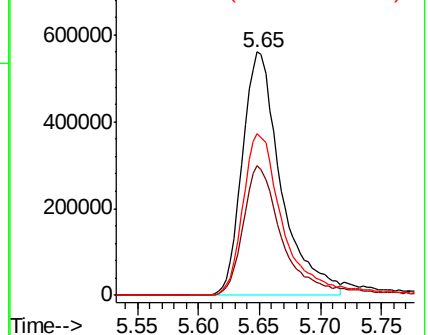
130 71.4 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.228 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL036976.D

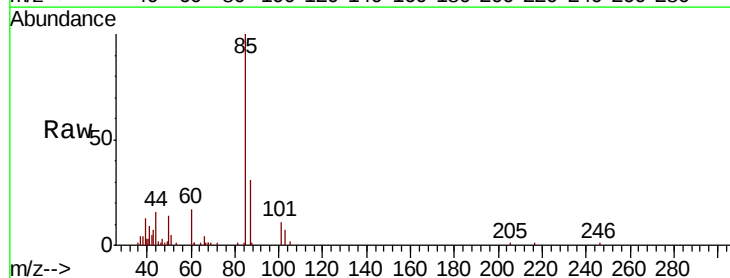
Acq: 18 May 2021 19:43

Tgt Ion: 85 Resp: 47433

Ion Ratio Lower Upper

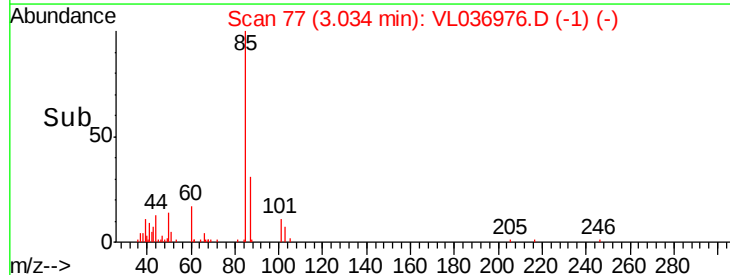
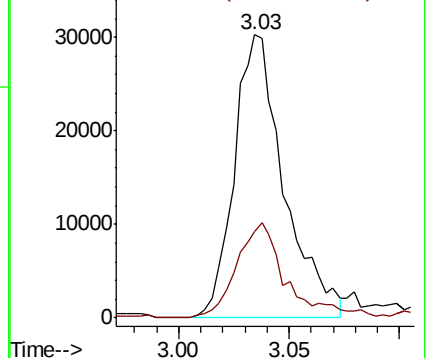
85 100

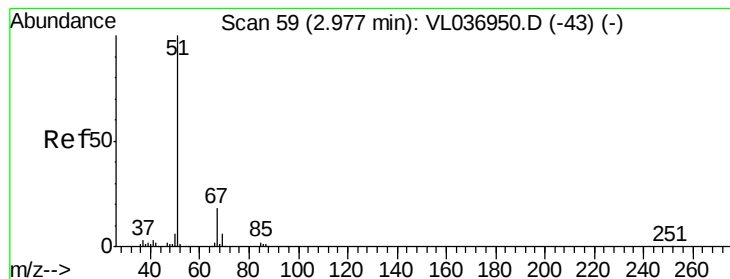
87 30.6 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.311 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

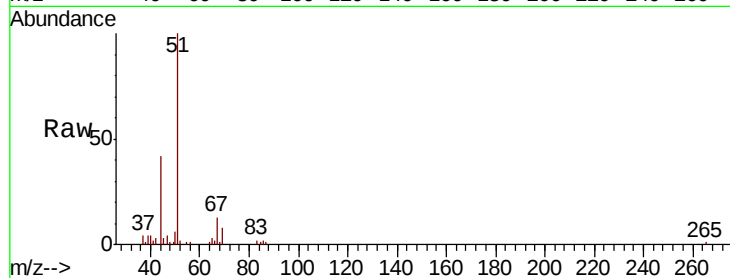
OA1

Tot Ion: 51 Resp: 69999

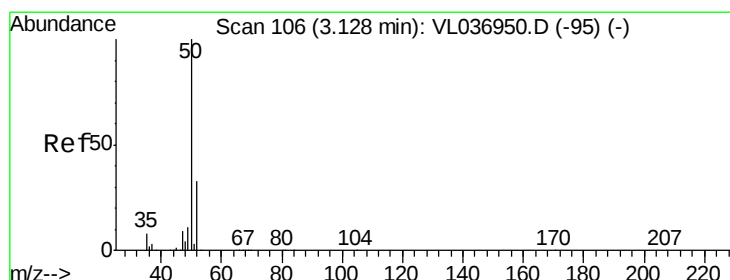
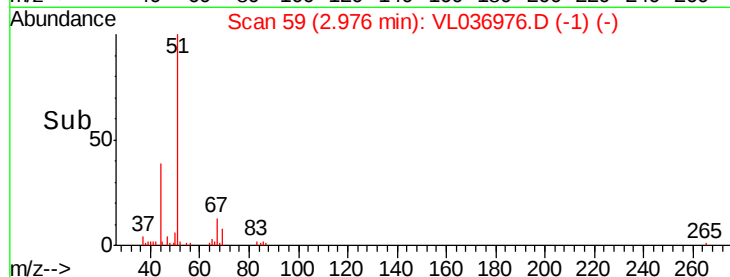
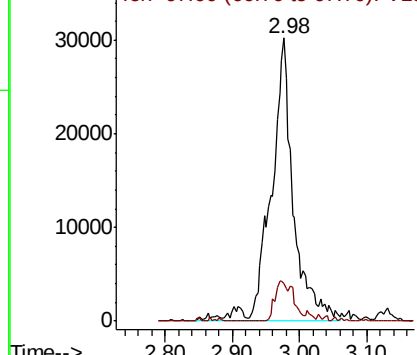
Ion Ratio Lower Upper

51 100

67 12.8 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.510 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL036976.D

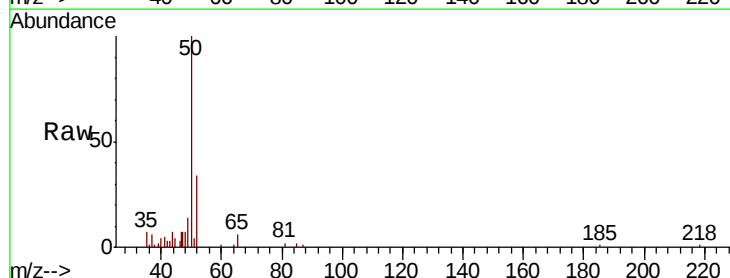
Acq: 18 May 2021 19:43

Tgt Ion: 50 Resp: 39085

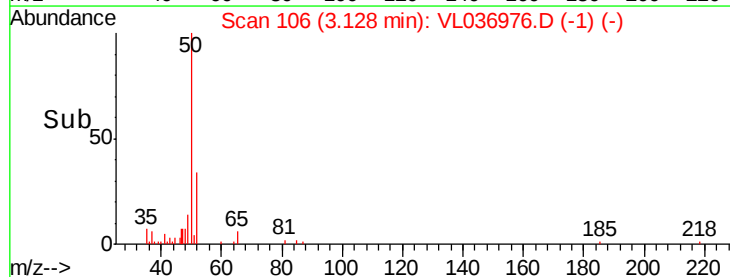
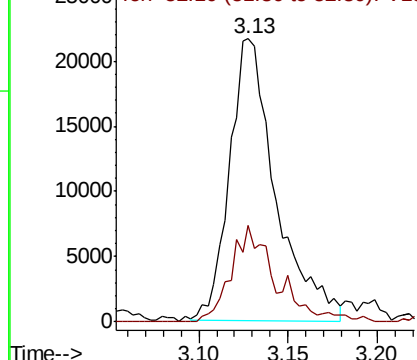
Ion Ratio Lower Upper

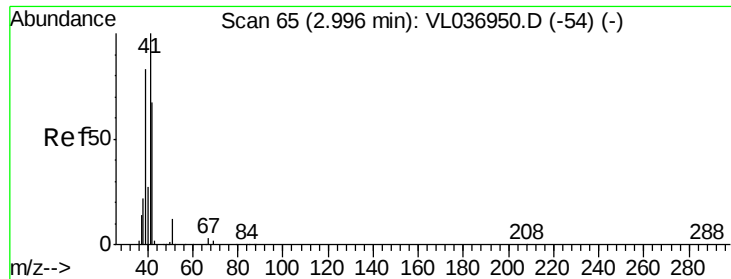
50 100

52 34.3 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.346 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

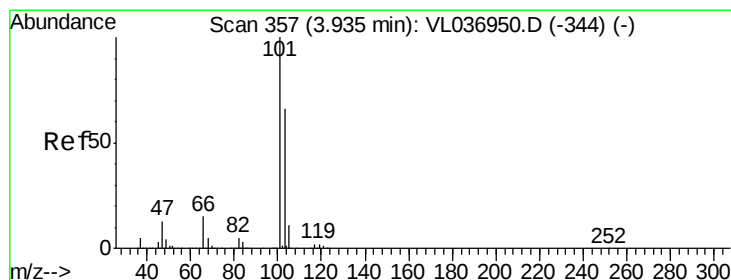
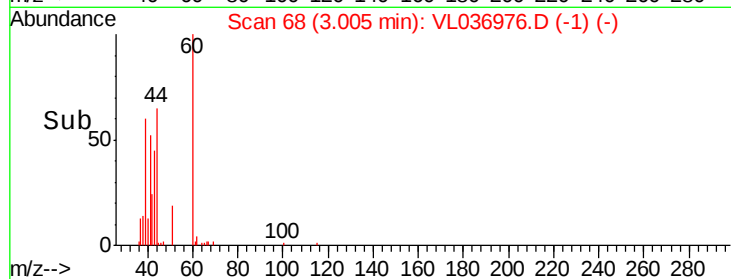
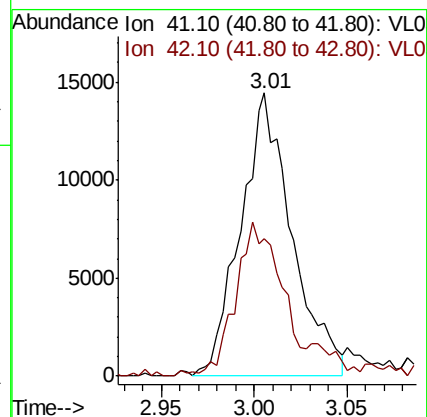
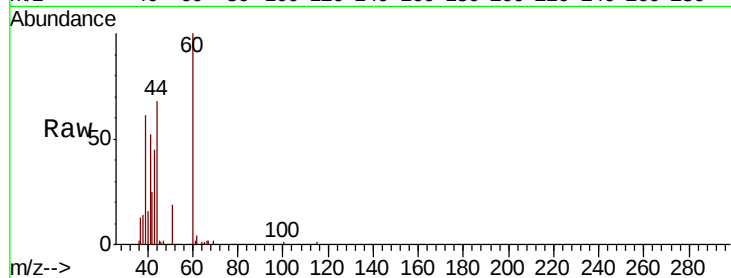
QA1

Tot Ion: 41 Resp: 27911

Ion Ratio Lower Upper

41 100

42 58.2 53.9 80.9



#11

Trichlorofluoromethane

Concen: 0.200 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL036976.D

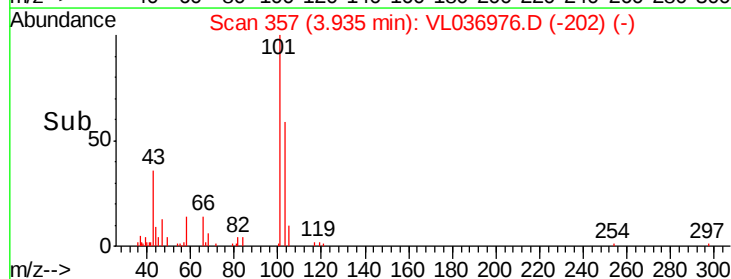
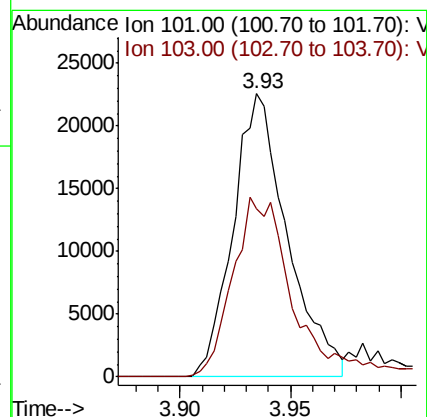
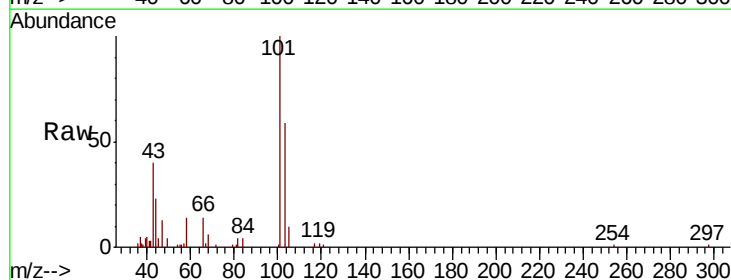
Acq: 18 May 2021 19:43

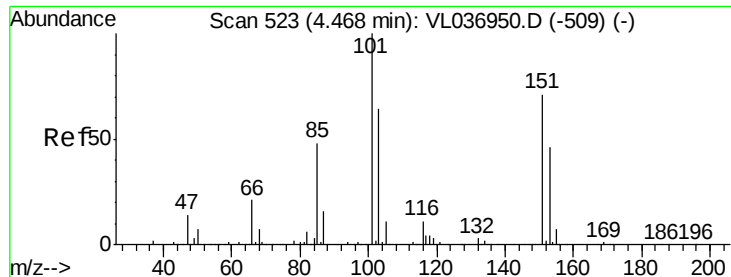
Tgt Ion: 101 Resp: 38560

Ion Ratio Lower Upper

101 100

103 59.1 52.6 79.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.050 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampled :

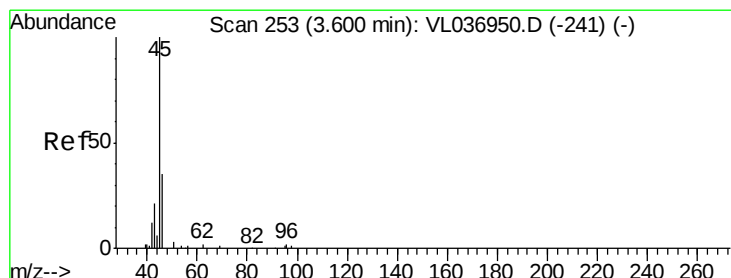
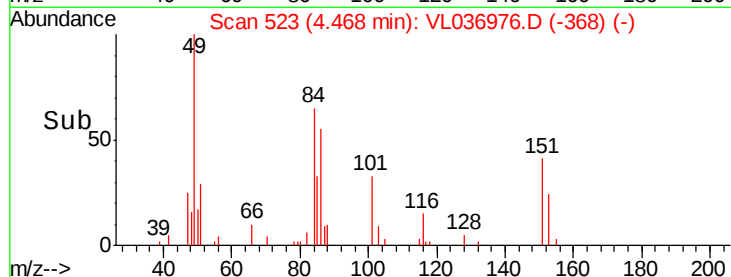
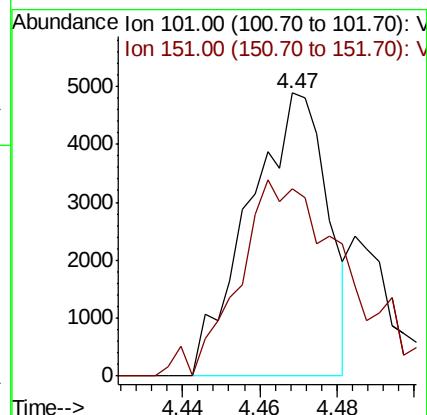
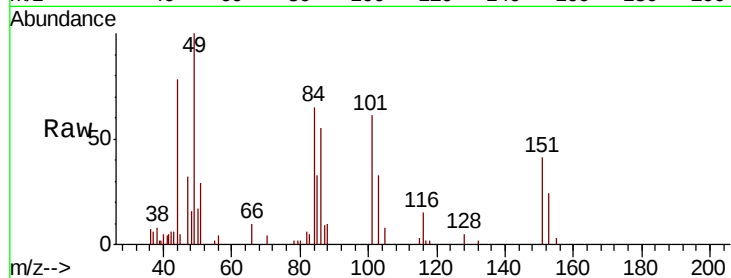
OA1

Tot Ion:101 Resp: 6883

Ion Ratio Lower Upper

101 100

151 99.5 57.7 86.5#



#13

Ethanol

Concen: 20.956 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL036976.D

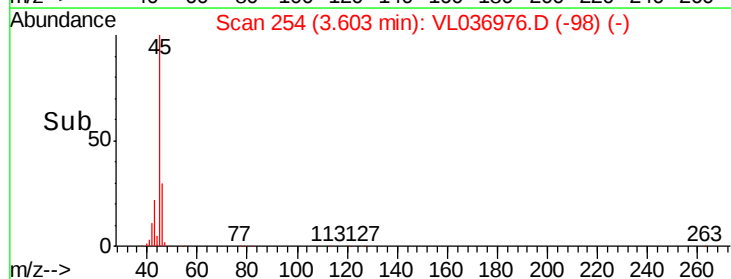
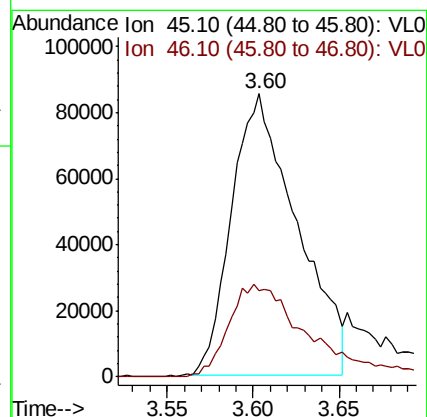
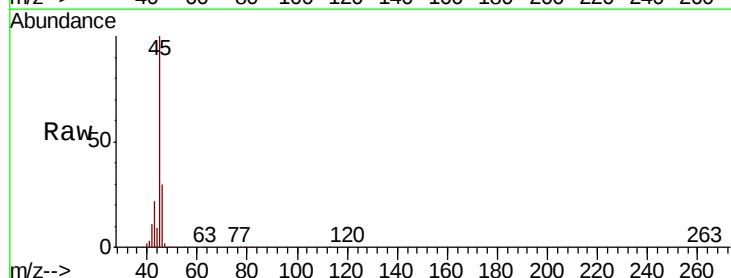
Acq: 18 May 2021 19:43

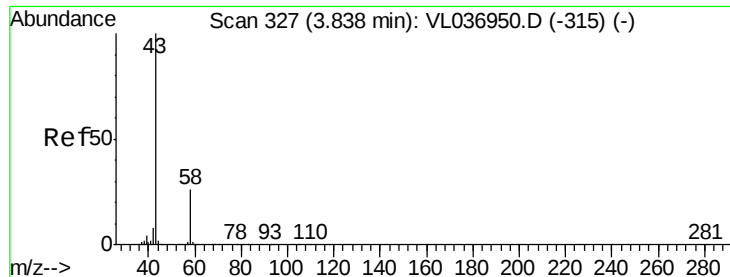
Tgt Ion: 45 Resp: 225363

Ion Ratio Lower Upper

45 100

46 42.3 16.3 65.3





#15

Acetone

Concen: 4.072 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampled :

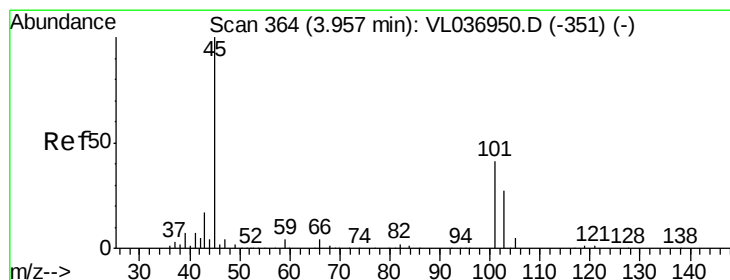
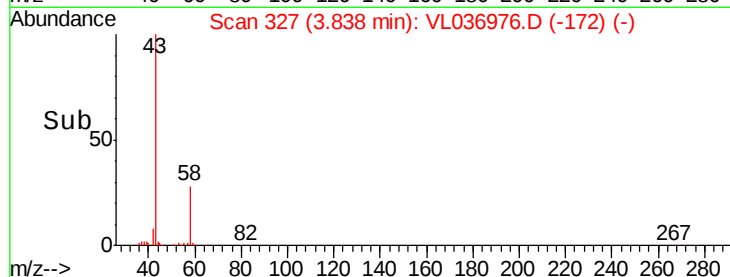
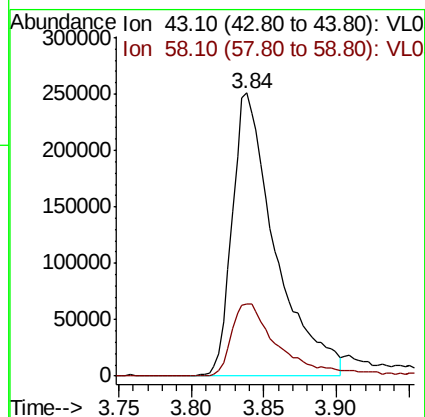
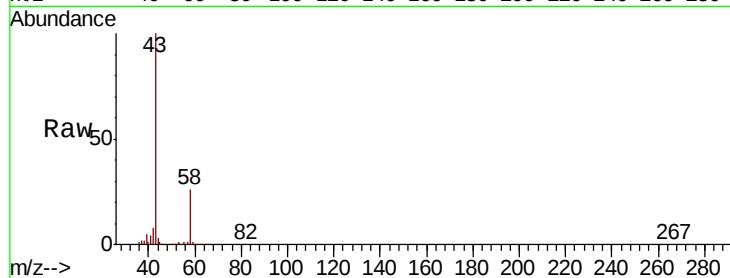
QA1

Tot Ion: 43 Resp: 512435

Ion Ratio Lower Upper

43 100

58 31.3 24.0 36.0



#19

Isopropyl Alcohol

Concen: 1.636 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL036976.D

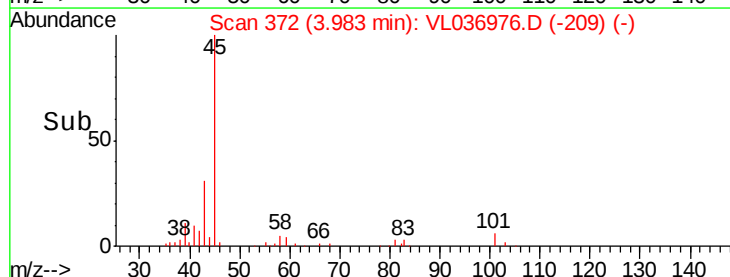
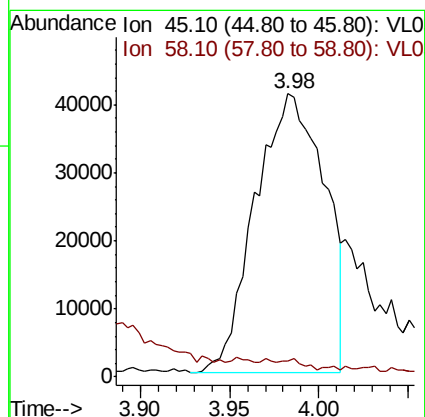
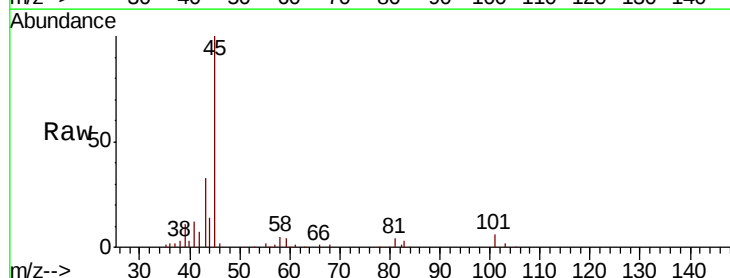
Acq: 18 May 2021 19:43

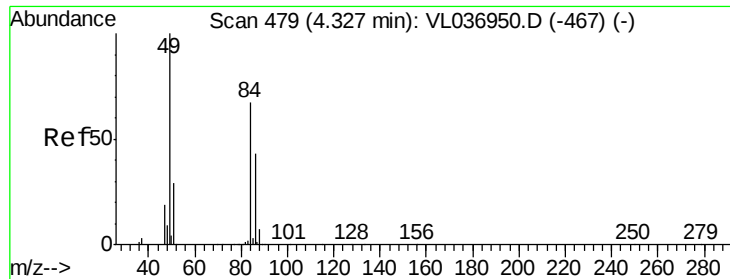
Tgt Ion: 45 Resp: 110694

Ion Ratio Lower Upper

45 100

58 5.8 37.2 55.8#



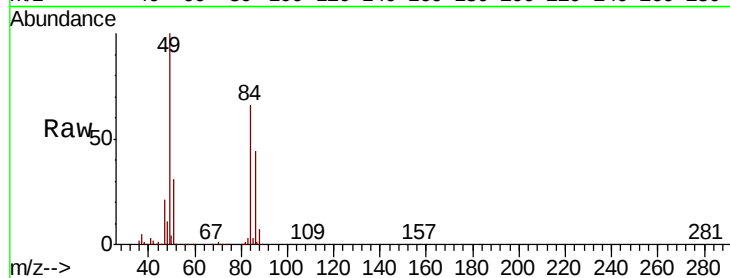


#20
Methylene Chloride
Concen: 19.264 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion: 84 Resp: 1299500

Ion	Ratio	Lower	Upper
84	100		
49	151.5	119.8	179.6
51	47.3	35.1	52.7
86	66.2	50.9	76.3



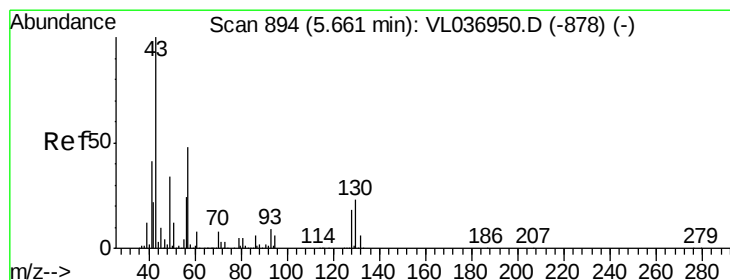
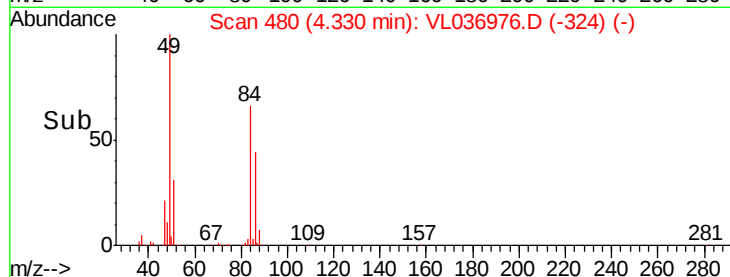
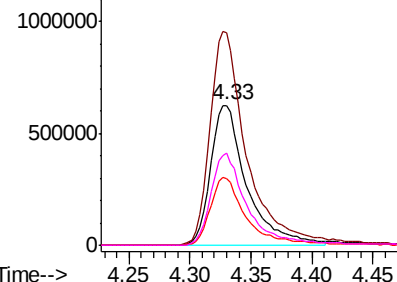
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

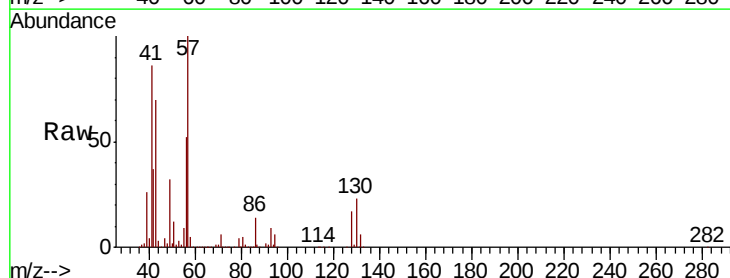
Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 3.748 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Tgt Ion: 43 Resp: 1133420

Ion	Ratio	Lower	Upper
43	100		
45	0.2	7.8	11.8#
61	0.2	7.8	11.8#
70	1.4	5.6	8.4#



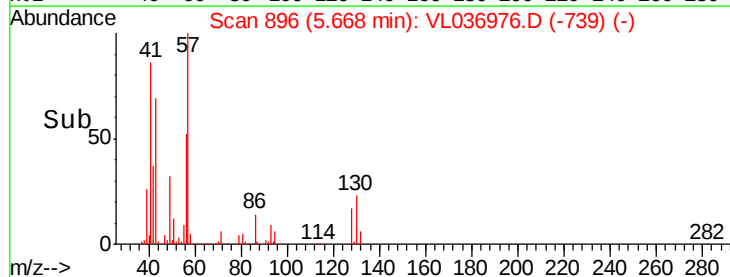
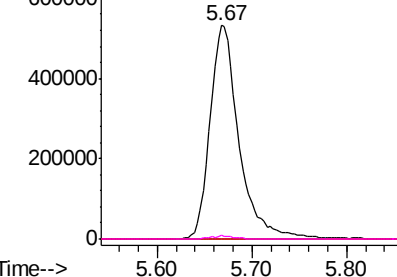
Abundance

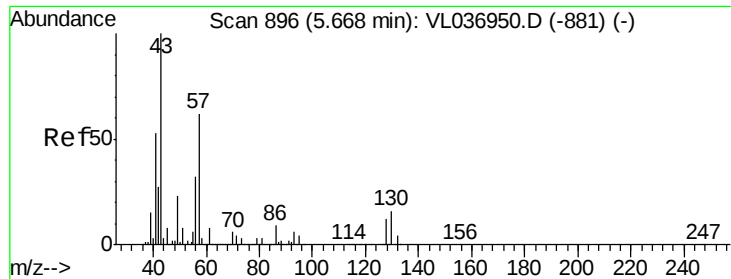
Ion 43.10 (42.80 to 43.80): VL0

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

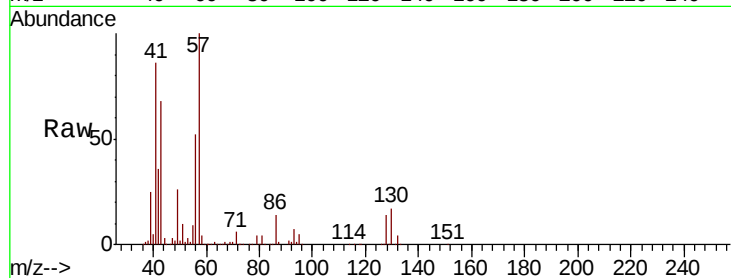




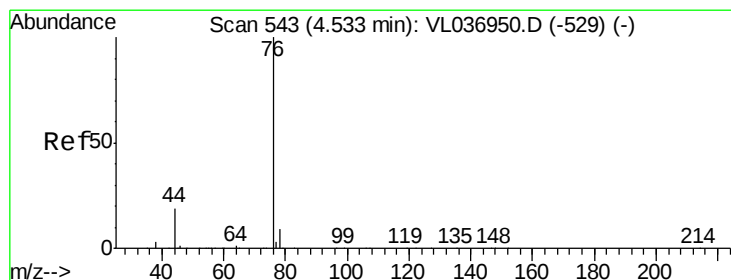
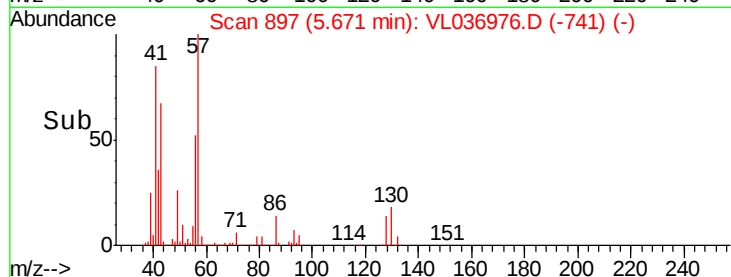
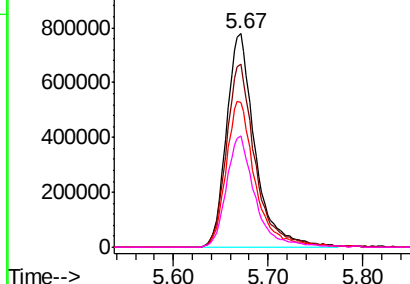
#26
Hexane
Concen: 10.567 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion: 57 Resp: 1632519
Ion Ratio Lower Upper
57 100
41 87.8 70.5 105.7
43 69.9 165.8 248.8#
56 52.6 42.2 63.4

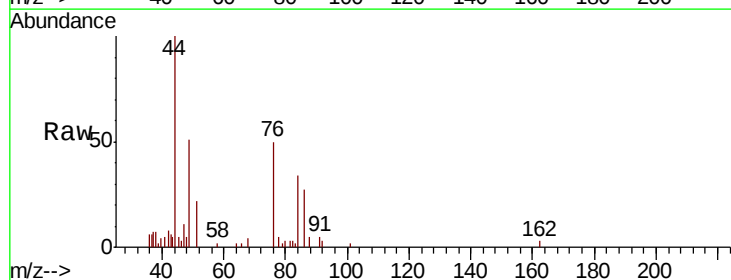


Abundance Ion 57.10 (56.80 to 57.80): VL0
1200000 Ion 41.10 (40.80 to 41.80): VL0
1000000 Ion 43.10 (42.80 to 43.80): VL0
800000 Ion 56.10 (55.80 to 56.80): VL0
600000
400000
200000
0

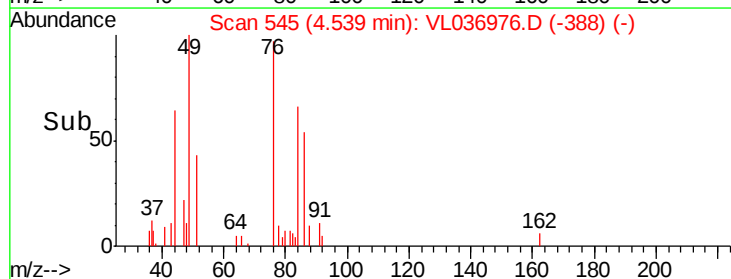
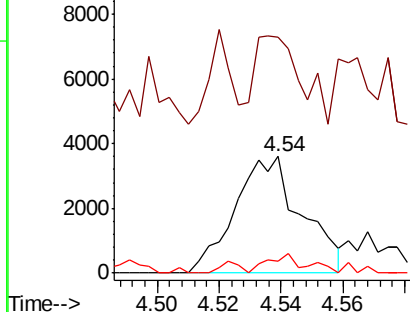


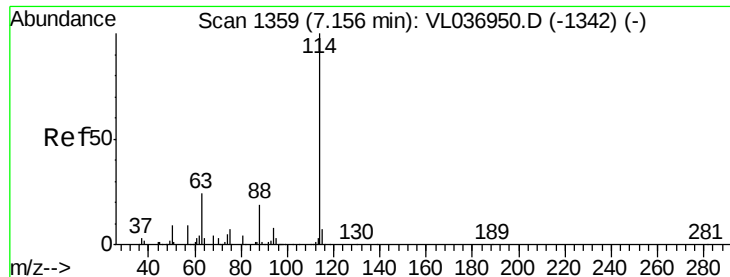
#27
Carbon Disulfide
Concen: 0.035 ppbv
RT: 4.54 min Scan# 545
Delta R.T. 0.01 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Tgt Ion: 76 Resp: 5404
Ion Ratio Lower Upper
76 100
44 128.9 15.5 23.3#
78 14.0 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0
10000 Ion 44.10 (43.80 to 44.80): VL0
8000 Ion 78.00 (77.70 to 78.70): VL0
6000
4000
2000
0

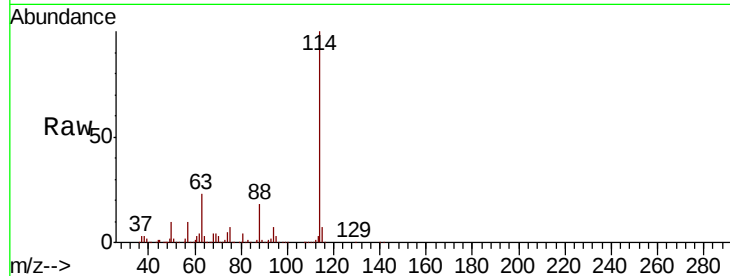




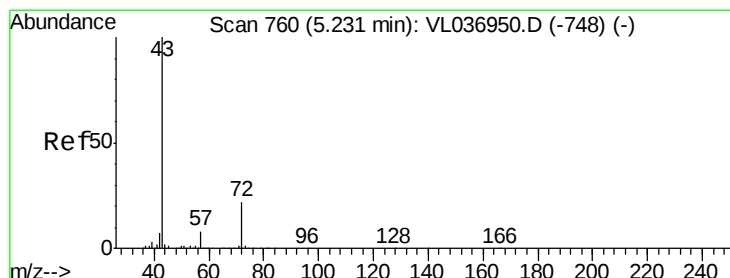
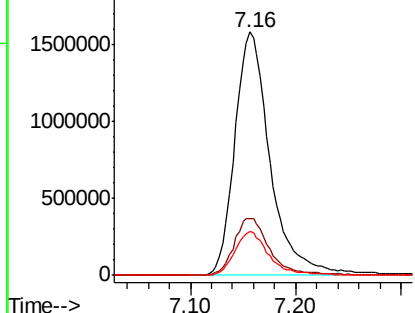
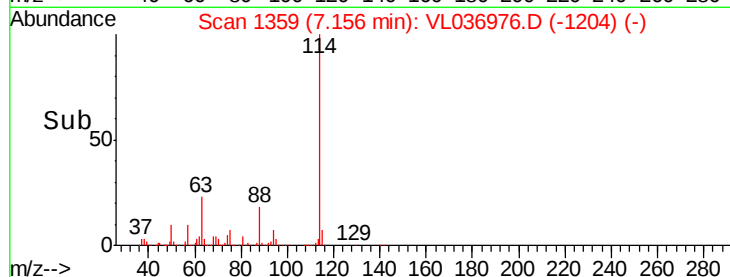
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion:114 Resp: 3644391
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.6 29.4
 88 17.8 14.6 21.8

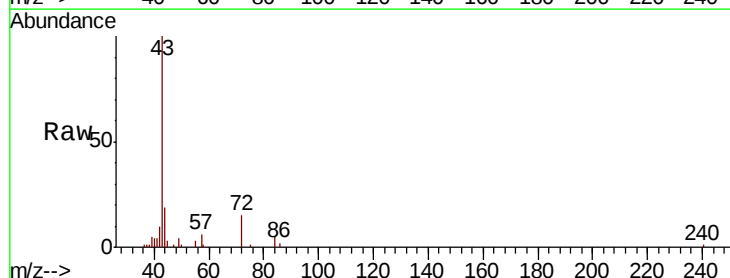


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

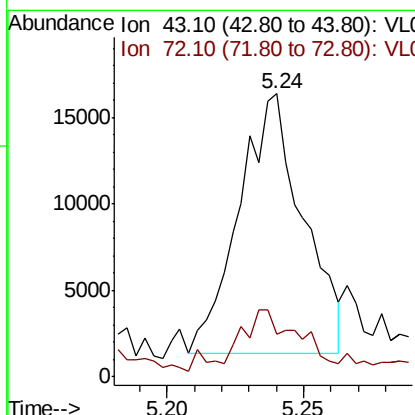
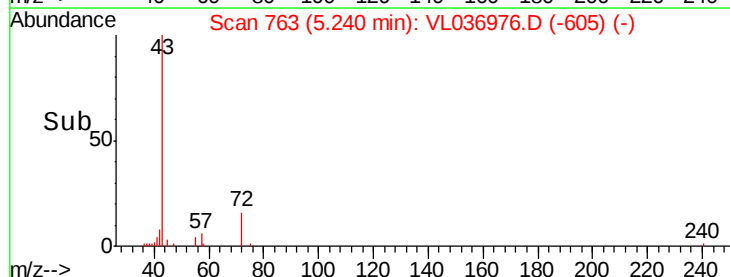


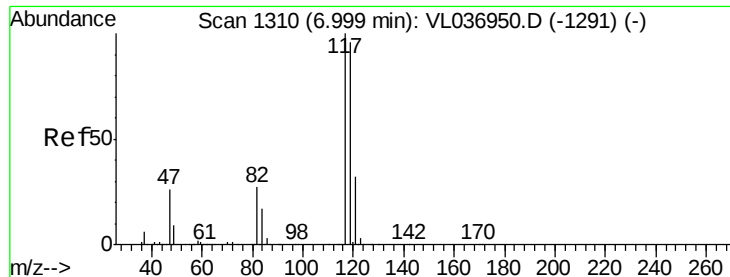
#34
 2-Butanone
 Concen: 0.184 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Tgt Ion: 43 Resp: 24471
 Ion Ratio Lower Upper
 43 100
 72 33.3 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

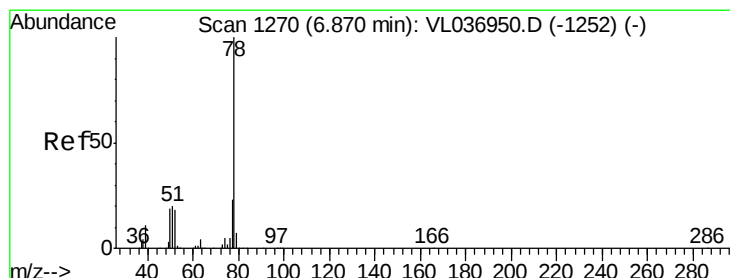
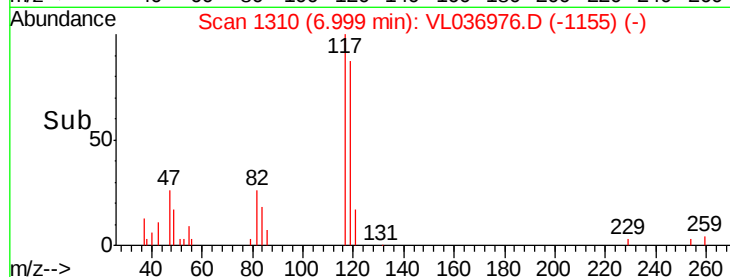
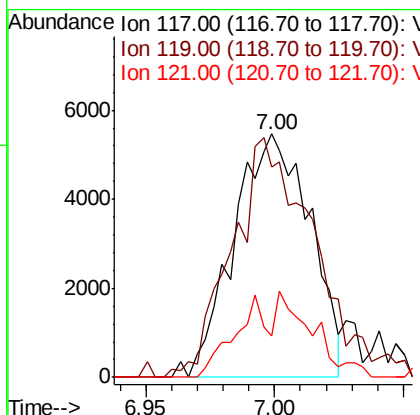
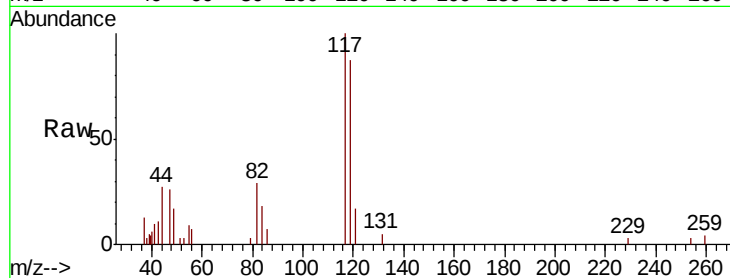




#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

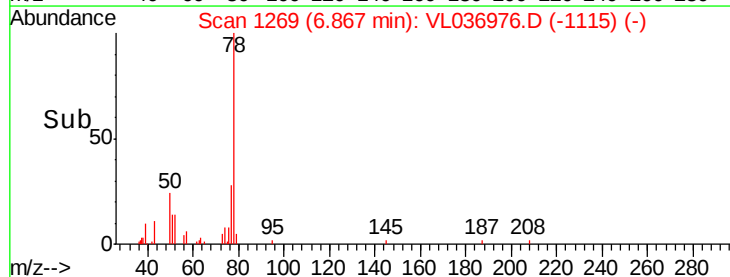
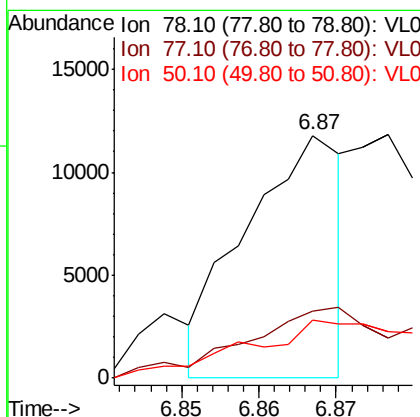
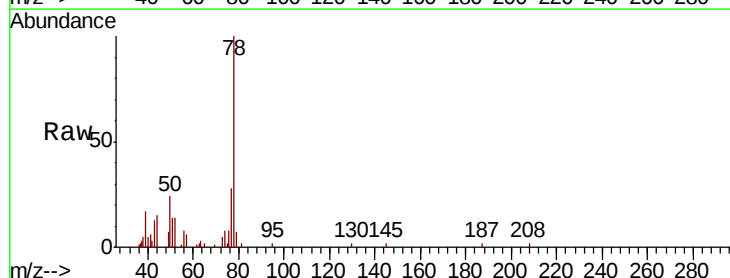
Instrument :
MSVOA_L
ClientSampleId :
OA1

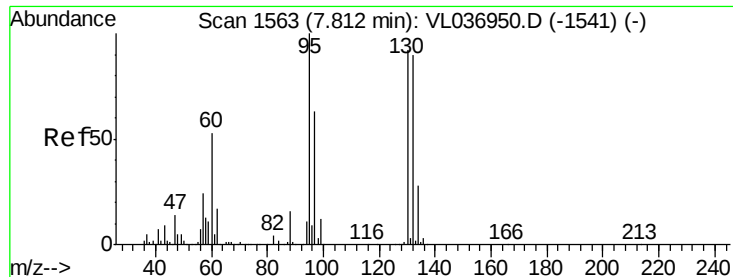
Tot Ion:117 Resp: 11272
Ion Ratio Lower Upper
117 100
119 80.1 76.6 114.8
121 17.2 25.8 38.6#



#36
Benzene
Concen: 0.033 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Tgt Ion: 78 Resp: 10287
Ion Ratio Lower Upper
78 100
77 30.3 18.6 28.0#
50 24.7 15.0 22.4#

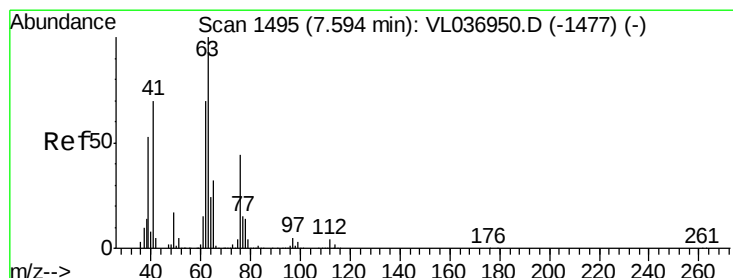
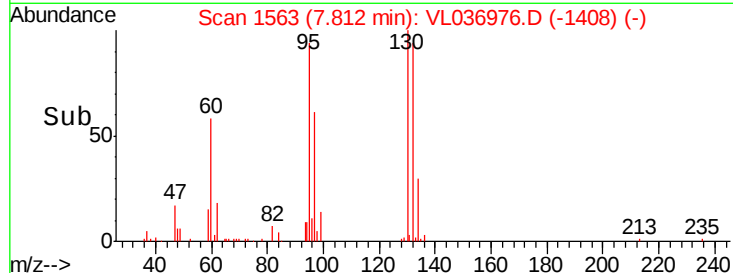
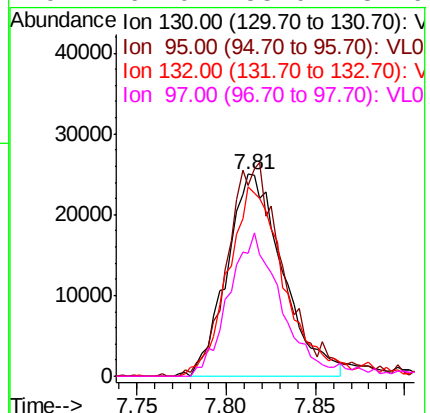
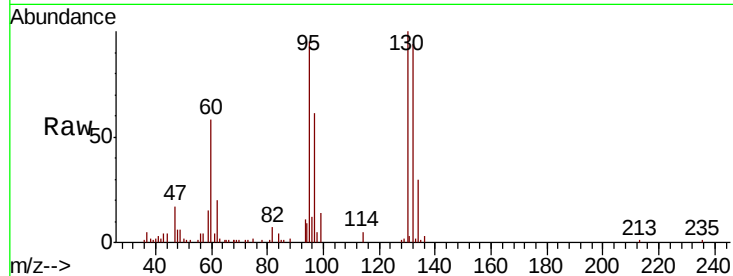




#38
 Trichloroethene
 Concen: 0.408 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

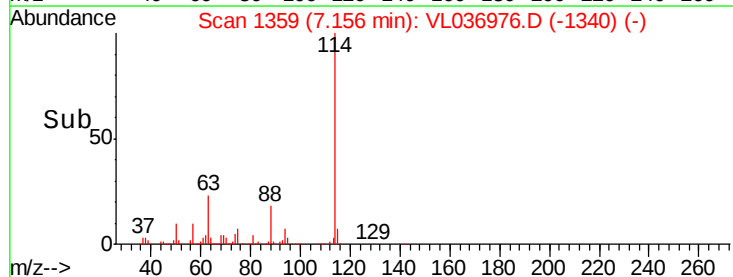
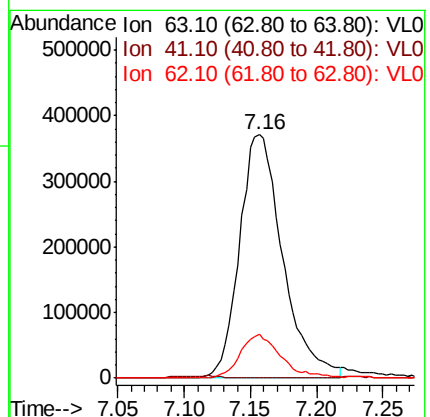
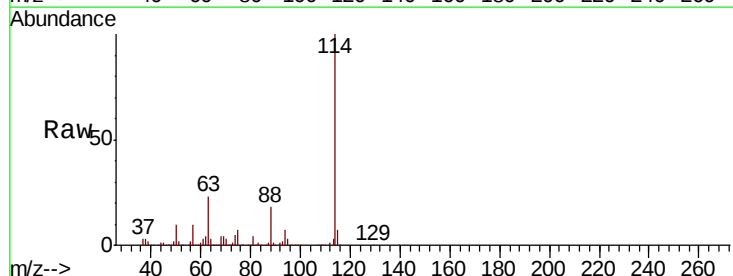
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

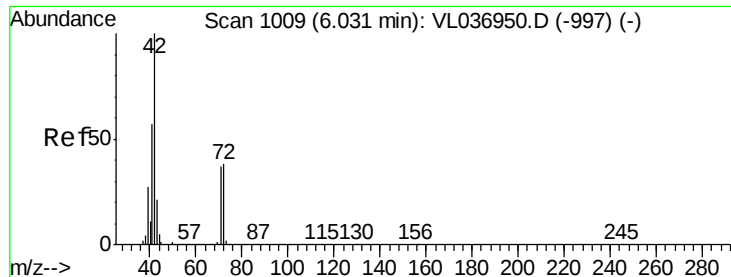
Tot Ion:130	Resp:	54726
Ion	Ratio	Lower Upper
130	100	
95	93.0	86.9 130.3
132	89.8	78.4 117.6
97	61.0	55.0 82.6



#39
 1,2-Dichloropropane
 Concen: 6.949 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.44 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Tgt Ion: 63	Resp:	840269
Ion	Ratio	Lower Upper
63	100	
41	0.0	55.7 83.5#
62	18.0	56.2 84.4#





#41

Tetrahydrofuran

Concen: 7.775 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.36 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

OA1

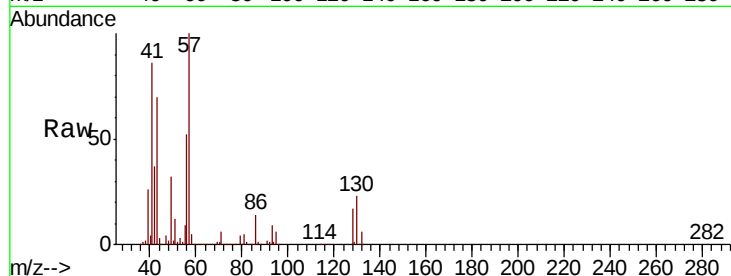
Tot Ion: 42 Resp: 587654

Ion Ratio Lower Upper

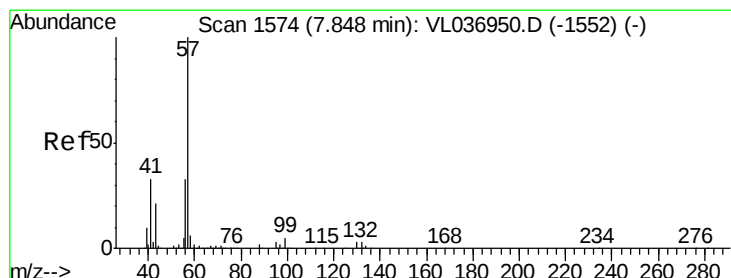
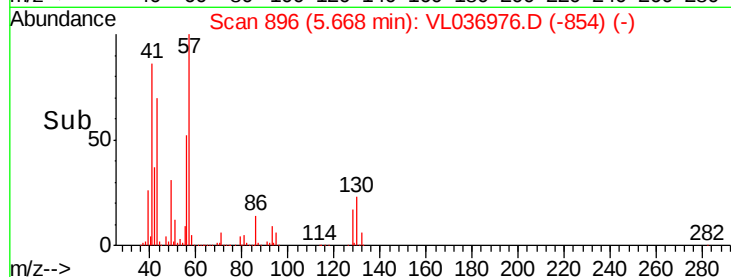
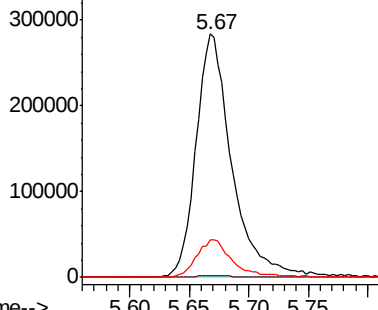
42 100

72 1.0 31.4 47.2#

71 15.8 30.4 45.6#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.033 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

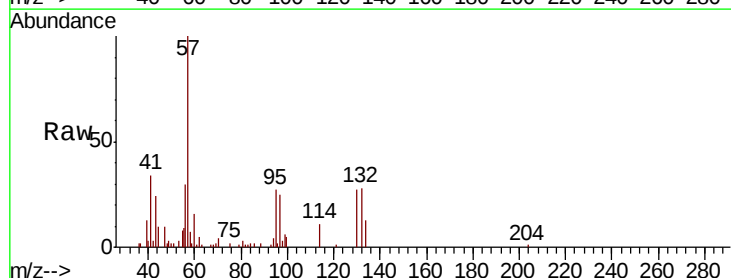
Tgt Ion: 57 Resp: 17953

Ion Ratio Lower Upper

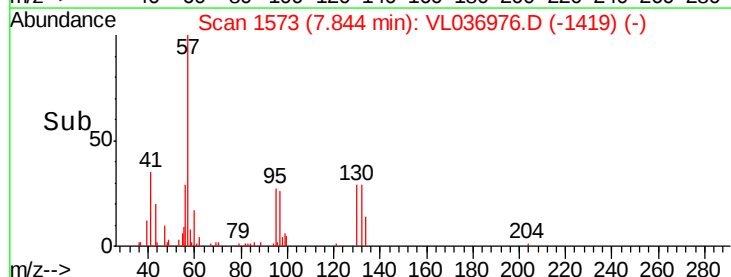
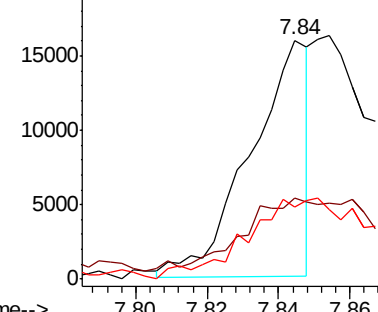
57 100

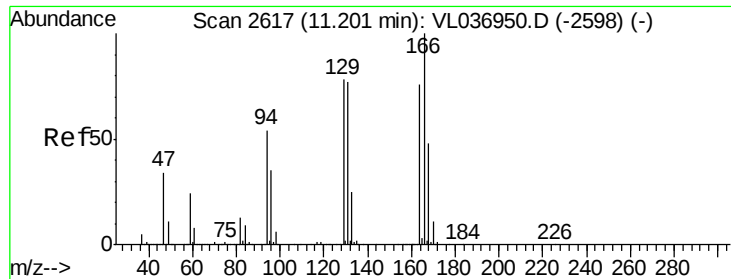
41 98.7 27.0 40.4#

56 0.0 25.4 38.2#



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: 2.778 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. 0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tot Ion:164 Resp: 346762

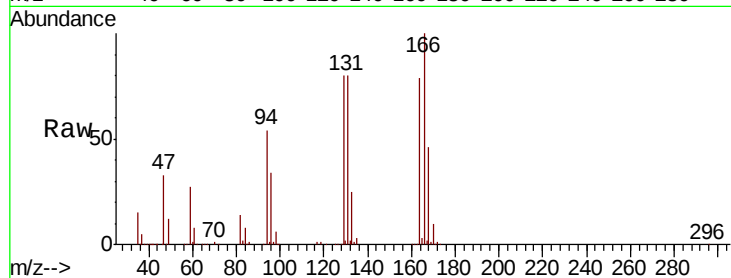
Ion Ratio Lower Upper

164 100

166 126.7 105.5 158.3

129 101.0 81.8 122.8

131 101.4 81.2 121.8

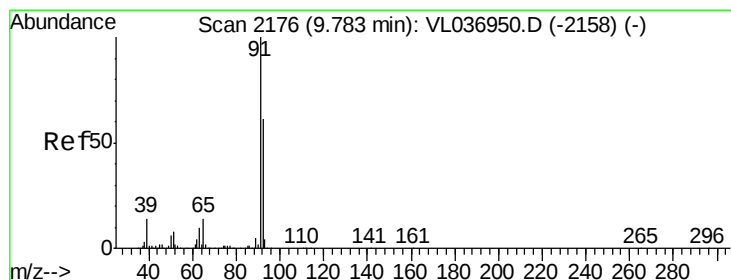
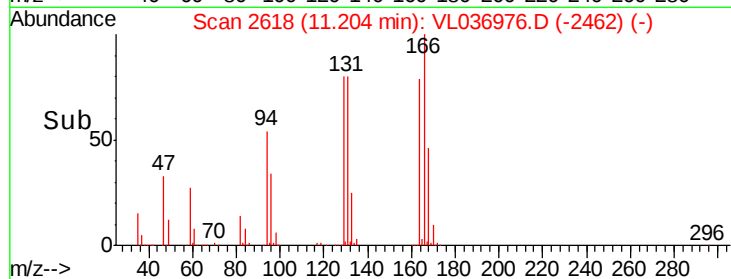
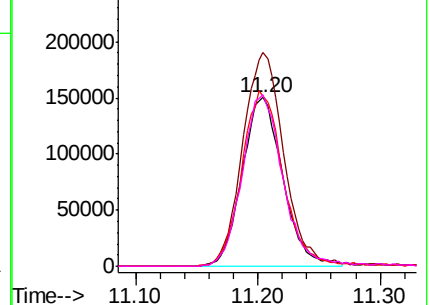


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.228 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL036976.D

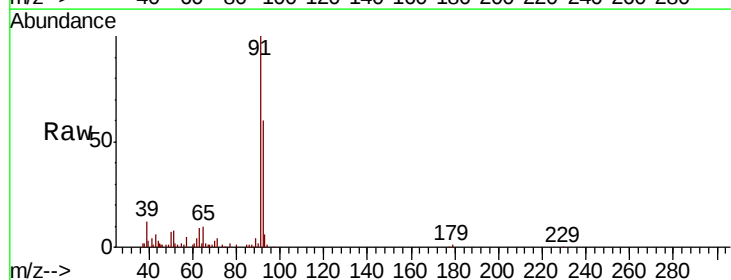
Acq: 18 May 2021 19:43

Tgt Ion: 91 Resp: 85323

Ion Ratio Lower Upper

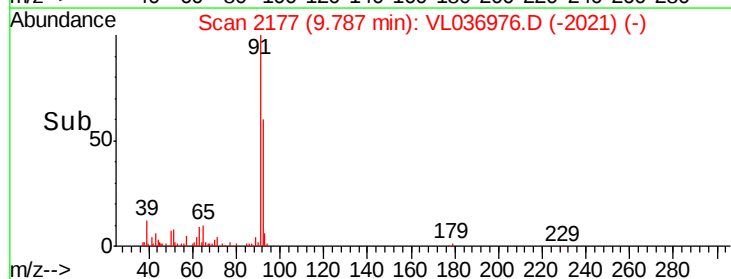
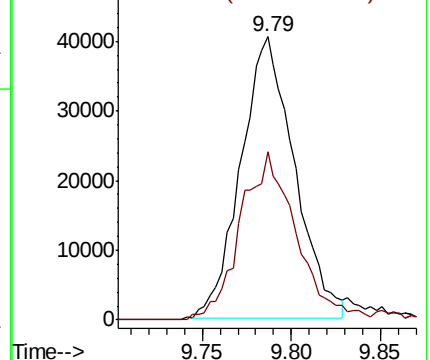
91 100

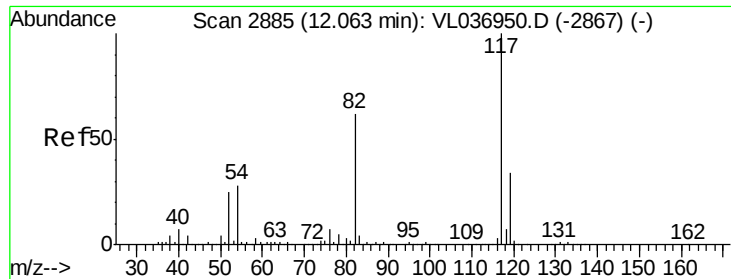
92 63.5 49.5 74.3



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: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

QA1

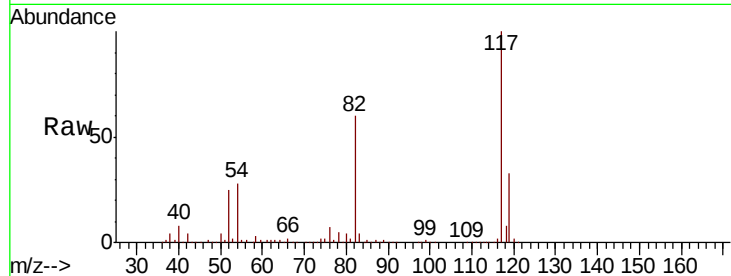
Tot Ion:117 Resp: 3327296

Ion Ratio Lower Upper

117 100

82 62.9 52.6 79.0

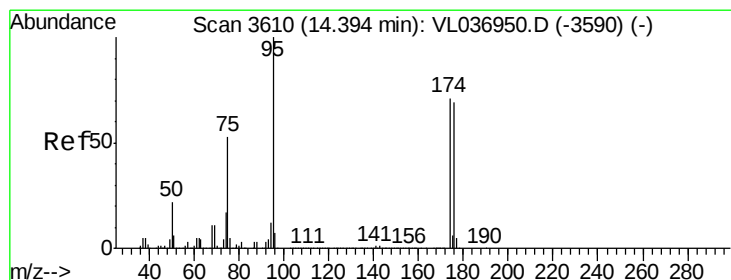
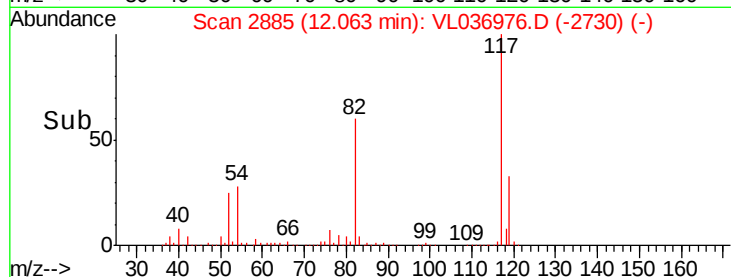
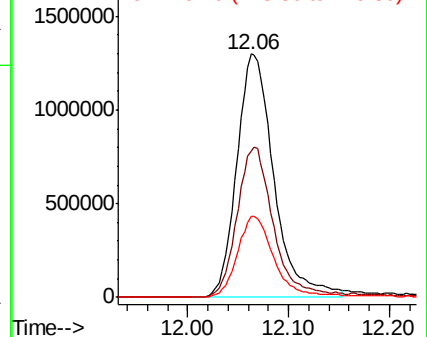
119 33.9 46.6 70.0#



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: 9.959 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

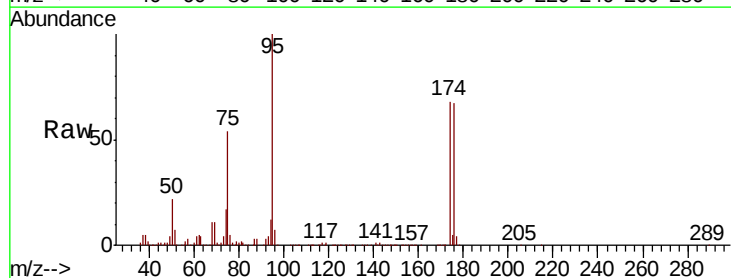
Tgt Ion: 95 Resp: 2489398

Ion Ratio Lower Upper

95 100

174 74.6 58.4 87.6

175 5.3 4.4 6.6



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

