

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015296.D
 Acq On : 16 Mar 2020 15:57
 Operator : JC/SP
 Sample : L1903-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP04-20200310

Quant Time: Mar 17 07:42:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	305703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	517831	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	498915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	251593	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	177811	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
35) Dibromofluoromethane	5.49	113	151550	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
50) Toluene-d8	8.71	98	627144	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.13	95	228919	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	

Target Compounds

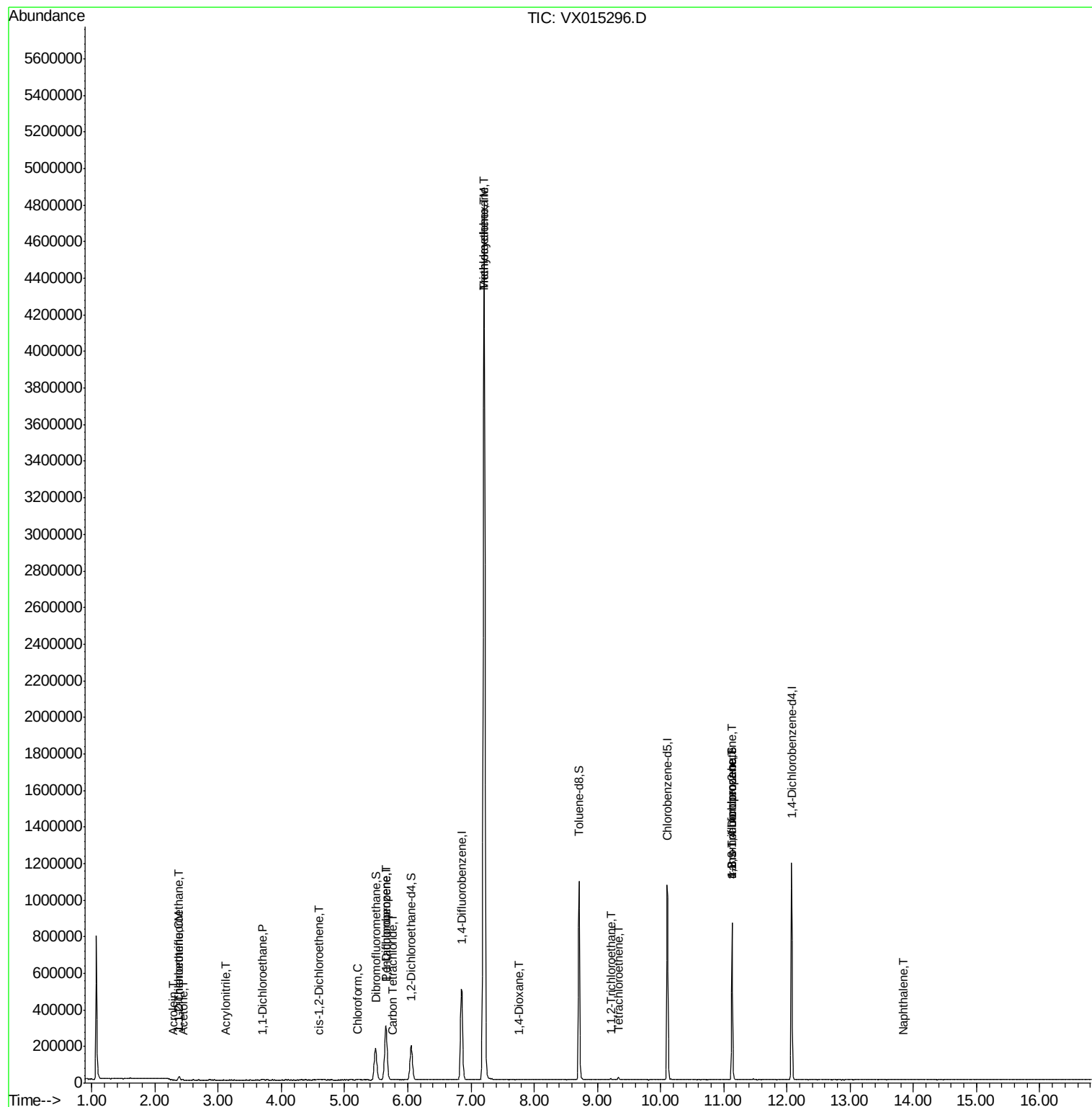
						Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.38	101	8011	2.783	ug/l	95
12) 1,1-Dichloroethene	2.37	96	1396	0.470	ug/l #	70
13) Acrolein	2.28	56	303	0.512	ug/l	99
15) Acrylonitrile	3.11	53	531	0.339	ug/l #	77
16) Acetone	2.44	43	3868	2.633	ug/l #	86
24) 1,1-Dichloroethane	3.70	63	2330	0.407	ug/l #	80
27) cis-1,2-Dichloroethene	4.58	96	2477	0.696	ug/l	78
30) Chloroform	5.21	83	4043	0.724	ug/l	94
36) 1,1-Dichloropropene	5.65	75	19969	4.171	ug/l #	52
38) Carbon Tetrachloride	5.76	117	1928	0.427	ug/l #	53
39) Methylcyclohexane	7.20	83	21046	3.765	ug/l #	1
44) Trichloroethene	7.21	130	1880049	475.314	ug/l	96
49) 1,4-Dioxane	7.75	88	173	2.012	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	1538	0.430	ug/l #	83
64) Tetrachloroethene	9.33	164	2919	0.708	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	111055	22.129	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	111055	62.802	ug/l #	11
95) Naphthalene	13.83	128	733	1.463	ug/l #	78

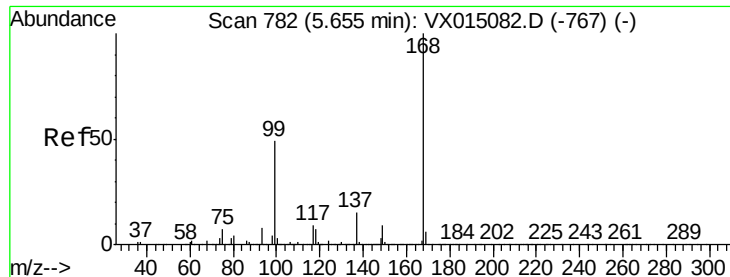
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

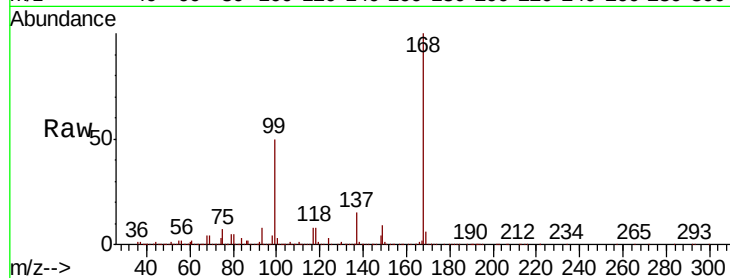
DUP04-20200310

Tot Ion:168 Resp: 305703

Ion Ratio Lower Upper

168 100

99 49.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

120000

100000

80000

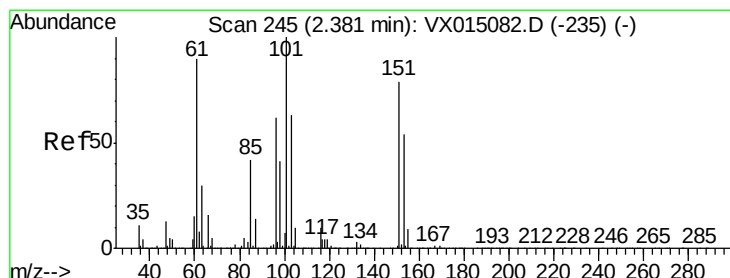
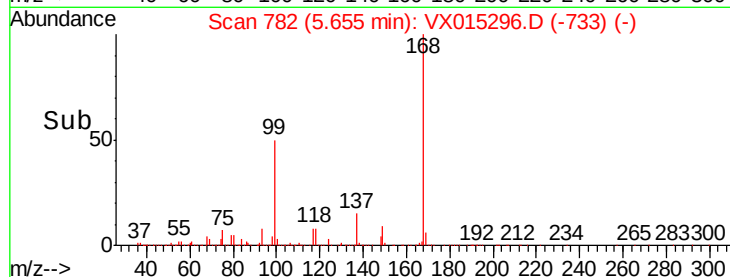
60000

40000

20000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.783 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

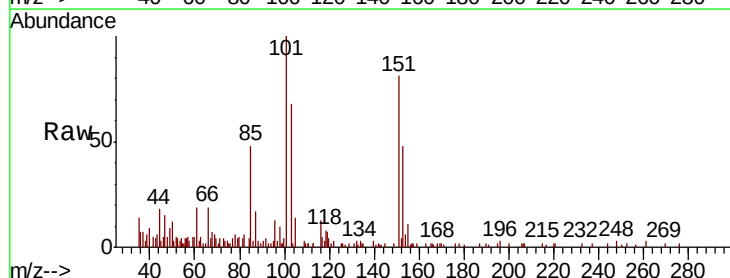
Tgt Ion:101 Resp: 8011

Ion Ratio Lower Upper

101 100

85 45.0 33.7 50.5

151 75.7 64.0 96.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.38

5000

4000

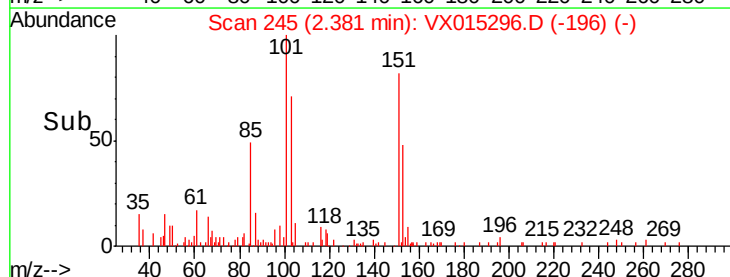
3000

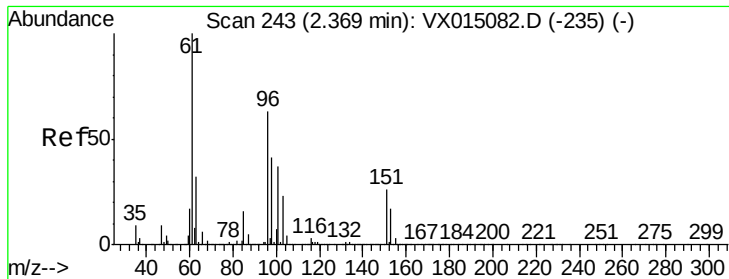
2000

1000

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.470 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310

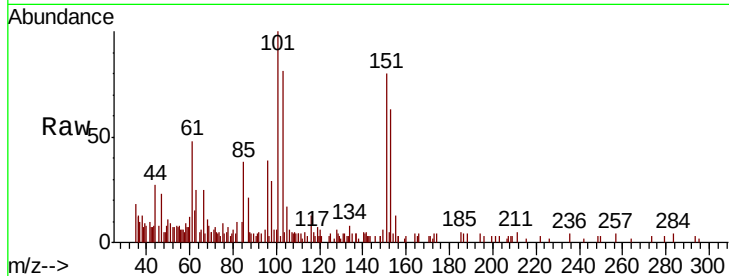
Tot Ion: 96 Resp: 1396

Ion Ratio Lower Upper

96 100

61 103.4 126.2 189.4#

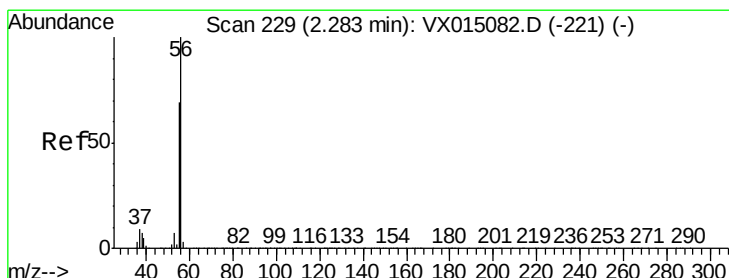
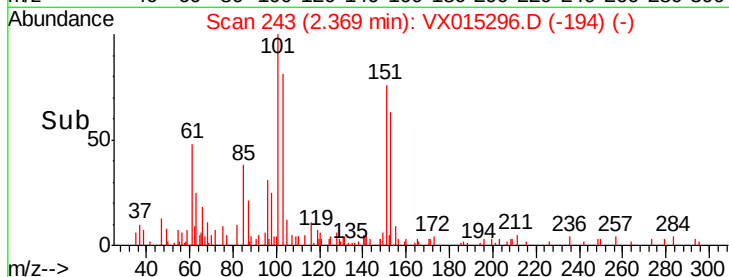
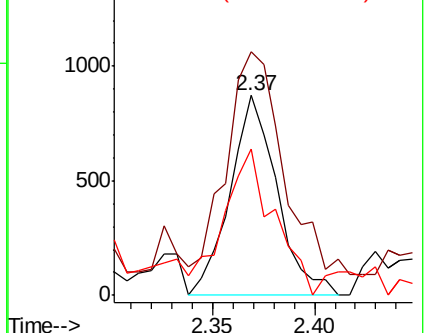
98 63.3 51.4 77.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.512 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX015296.D

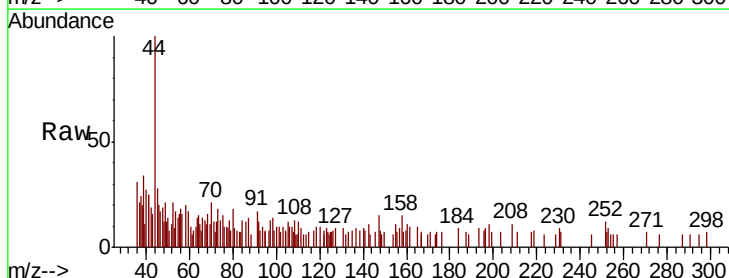
Acq: 16 Mar 2020 15:57

Tgt Ion: 56 Resp: 303

Ion Ratio Lower Upper

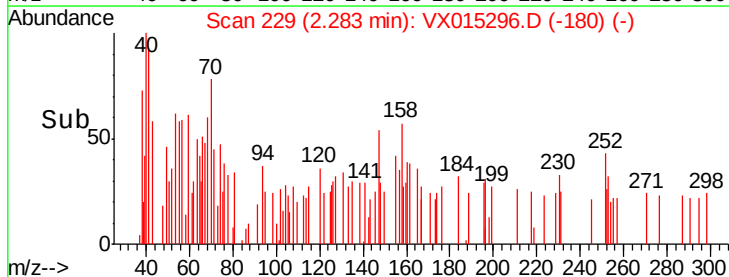
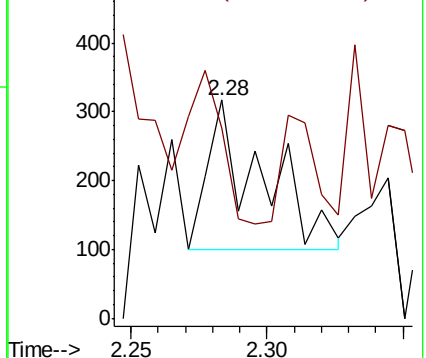
56 100

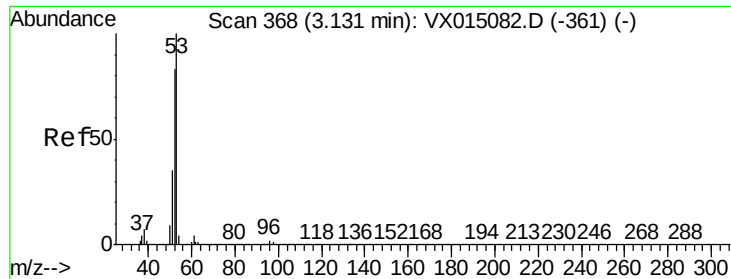
55 68.6 55.4 83.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.339 ug/l

RT: 3.11 min Scan# 365

Delta R.T. -0.02 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleID :

DUP04-20200310

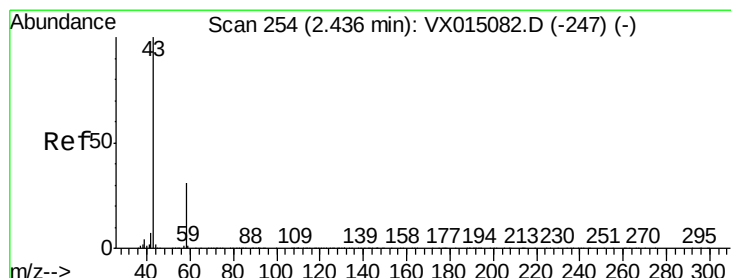
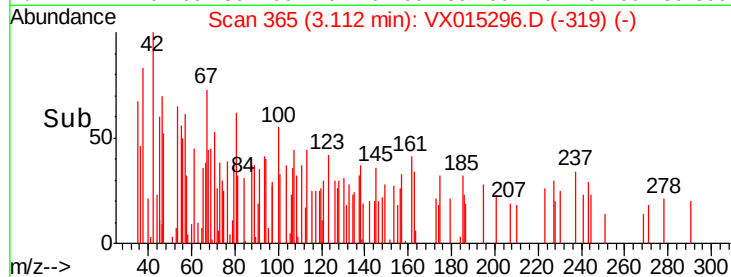
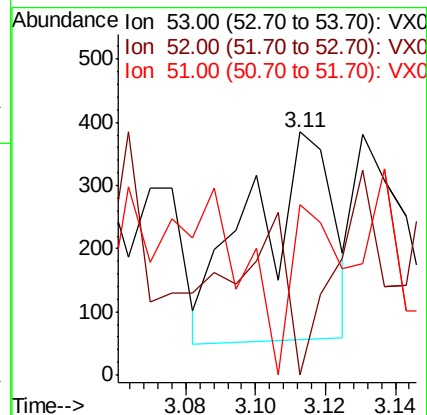
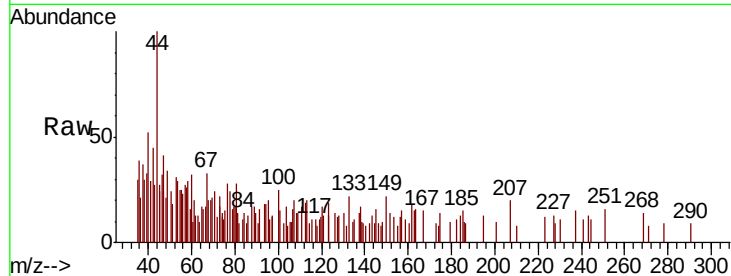
Tot Ion: 53 Resp: 531

Ion Ratio Lower Upper

53 100

52 60.3 66.6 100.0#

51 46.7 29.0 43.6#



#16

Acetone

Concen: 2.633 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015296.D

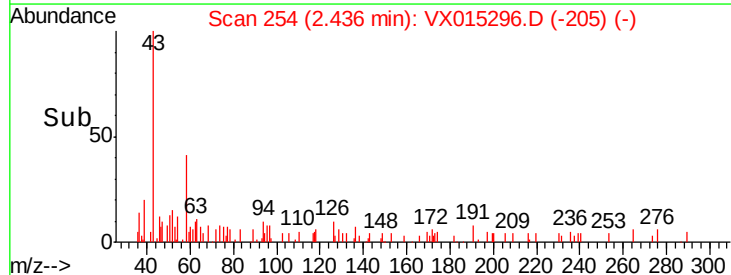
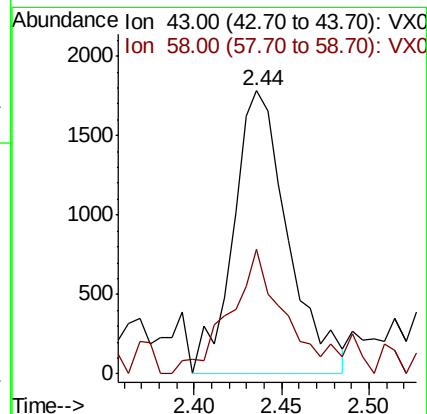
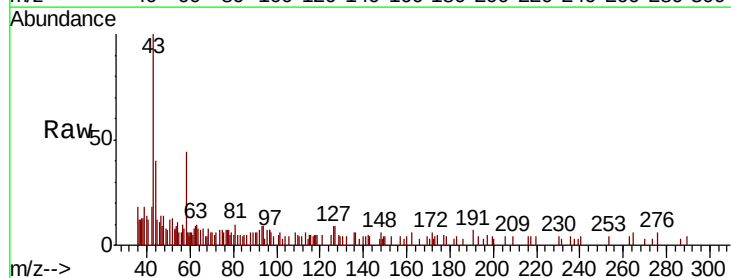
Acq: 16 Mar 2020 15:57

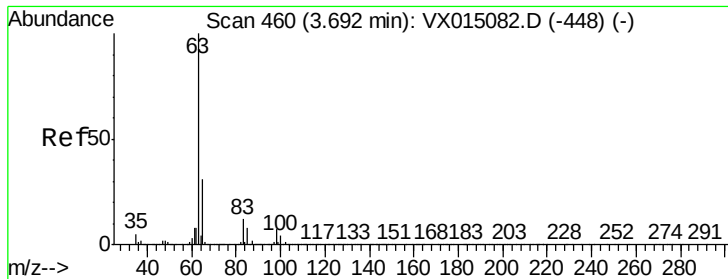
Tgt Ion: 43 Resp: 3868

Ion Ratio Lower Upper

43 100

58 38.5 24.8 37.2#





#24

1,1-Dichloroethane

Concen: 0.407 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310

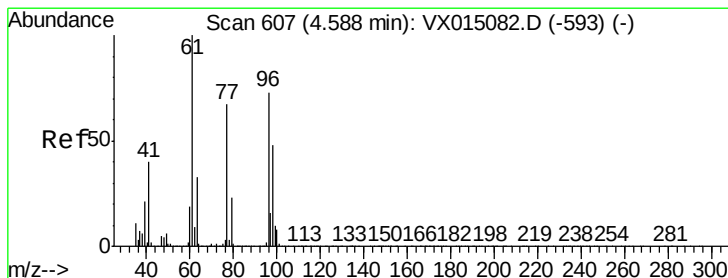
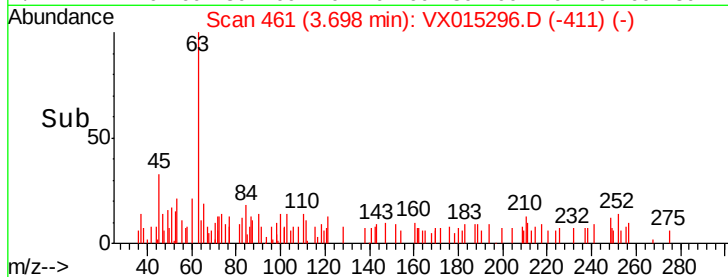
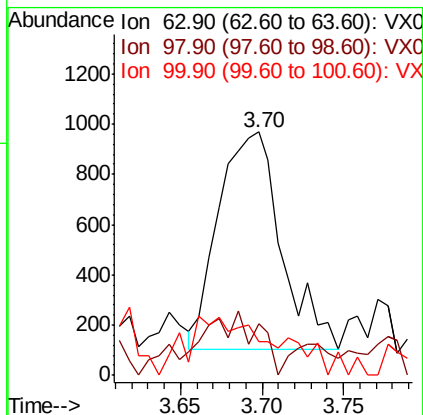
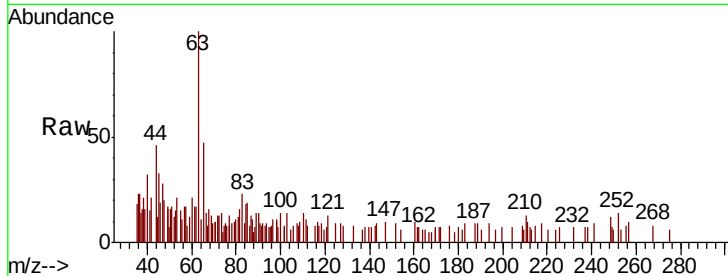
Tot Ion: 63 Resp: 2330

Ion Ratio Lower Upper

63 100

98 17.4 3.7 11.1#

100 5.5 2.1 6.5



#27

cis-1,2-Dichloroethene

Concen: 0.696 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

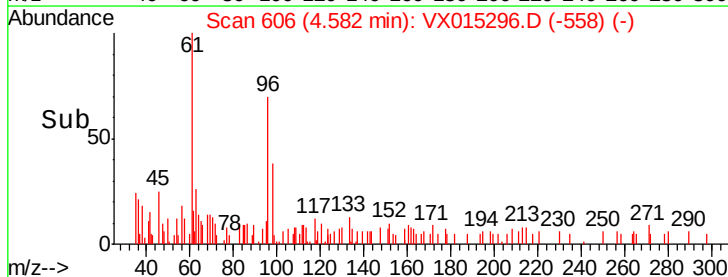
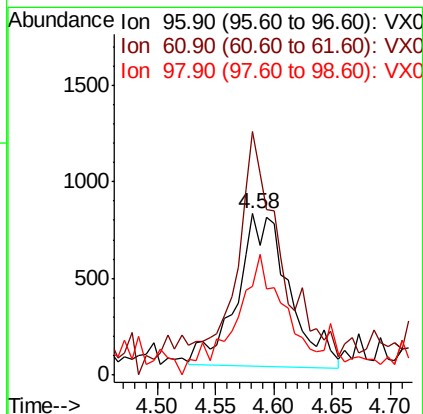
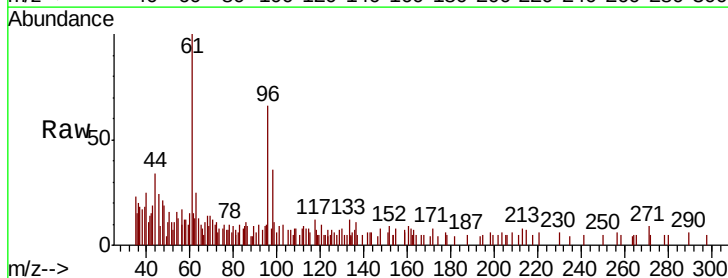
Tgt Ion: 96 Resp: 2477

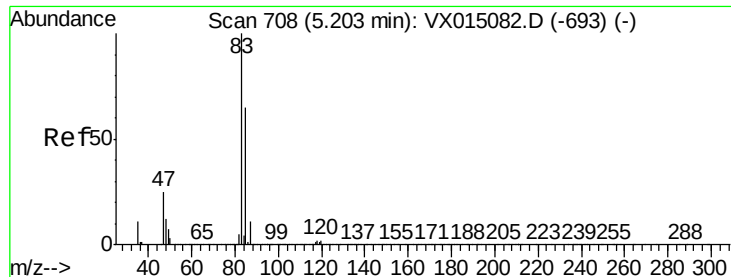
Ion Ratio Lower Upper

96 100

61 112.6 0.0 286.8

98 75.3 0.0 128.4





#30

Chloroform

Concen: 0.724 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.01 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

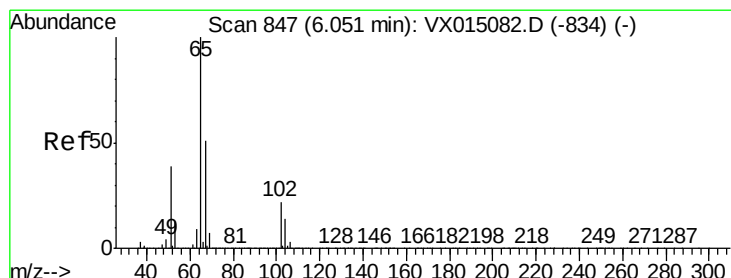
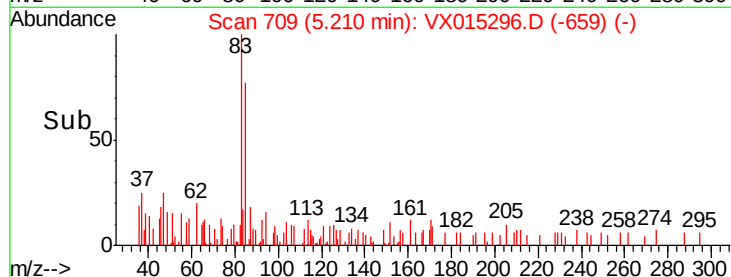
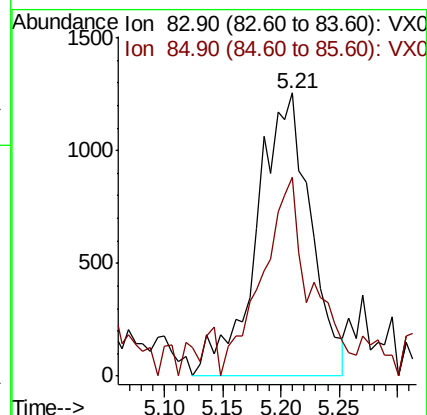
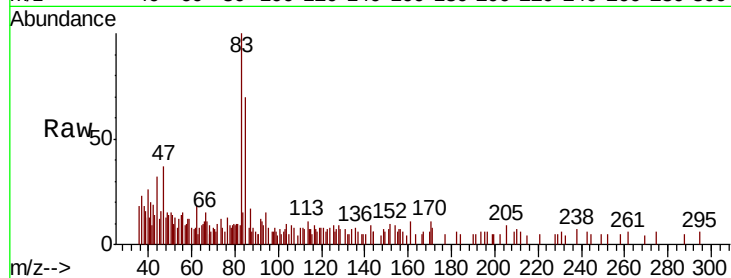
DUP04-20200310

Tot Ion: 83 Resp: 4043

Ion Ratio Lower Upper

83 100

85 60.1 52.0 78.0



#33

1,2-Dichloroethane-d4

Concen: 49.027 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015296.D

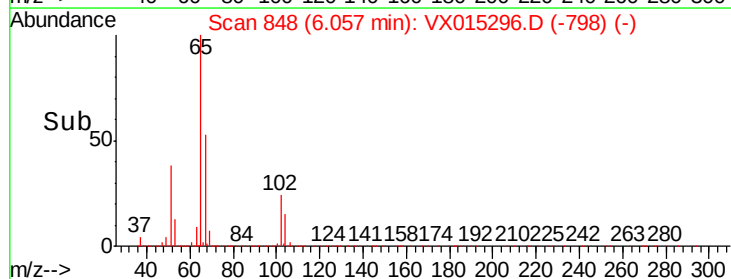
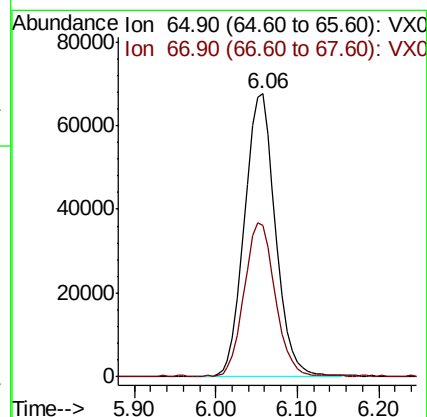
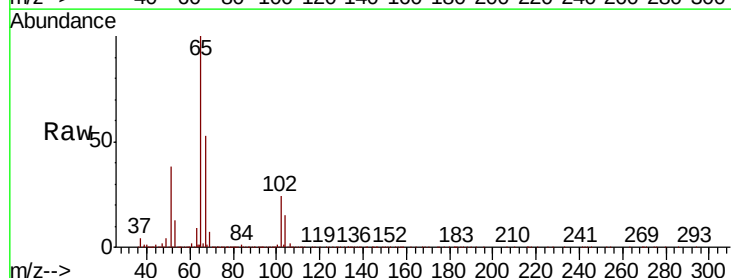
Acq: 16 Mar 2020 15:57

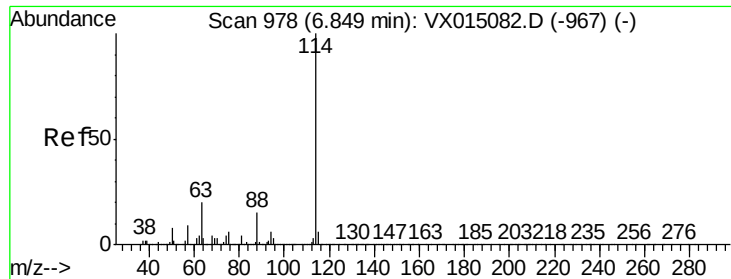
Tgt Ion: 65 Resp: 177811

Ion Ratio Lower Upper

65 100

67 54.7 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310

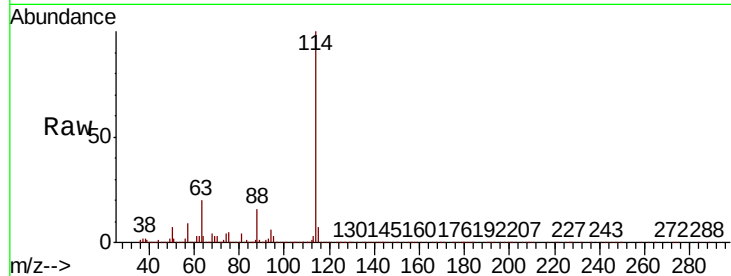
Tot Ion:114 Resp: 517831

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.0

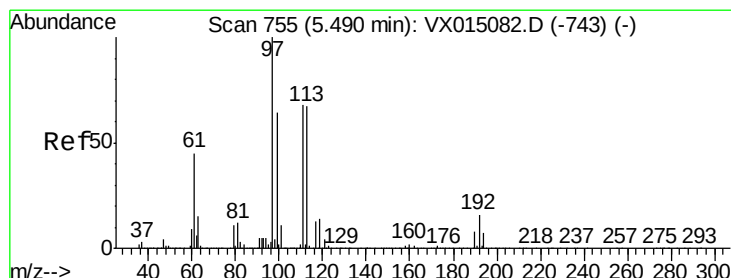
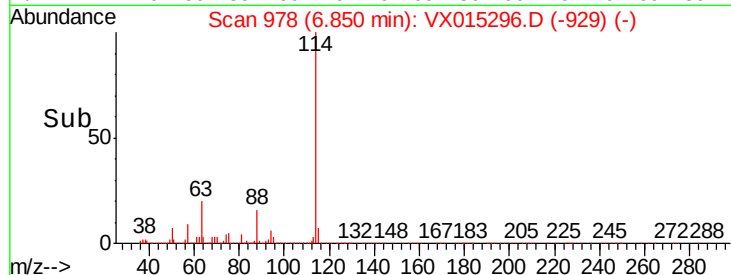
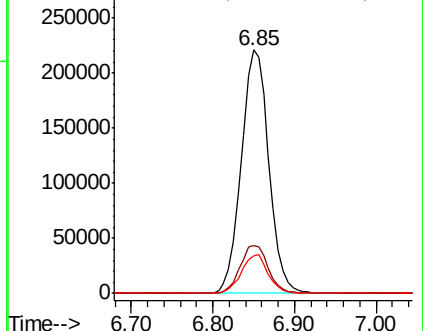
88 15.5 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.390 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

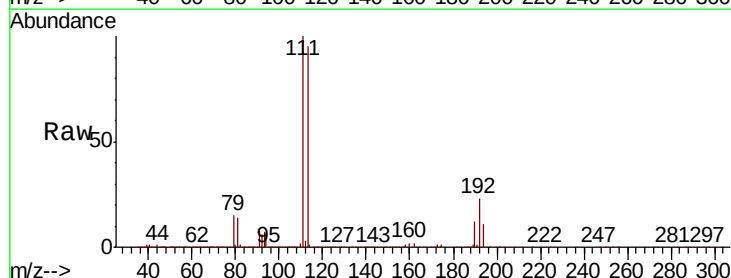
Tgt Ion:113 Resp: 151550

Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

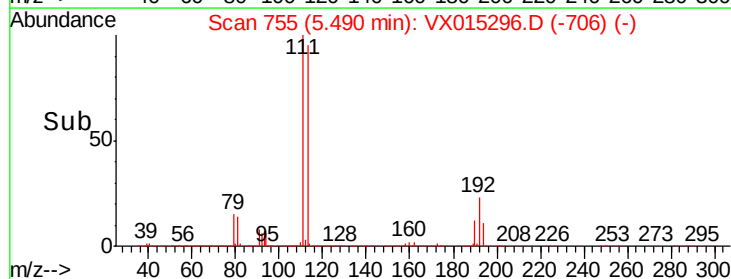
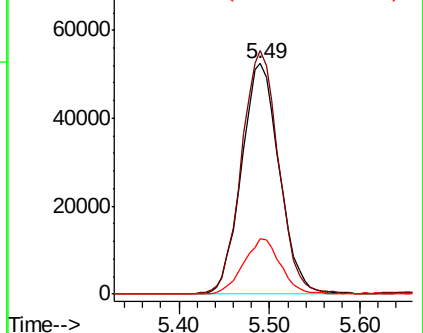
192 23.5 18.6 28.0

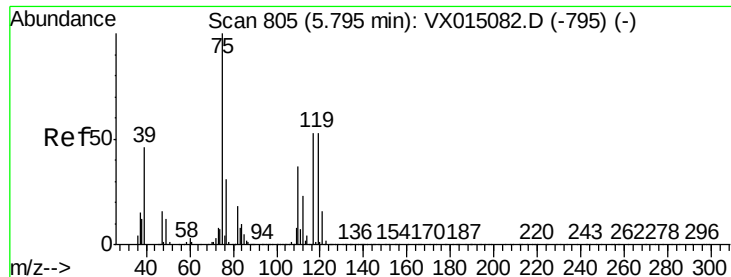


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

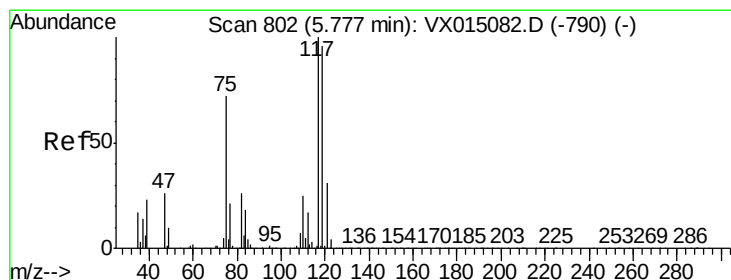
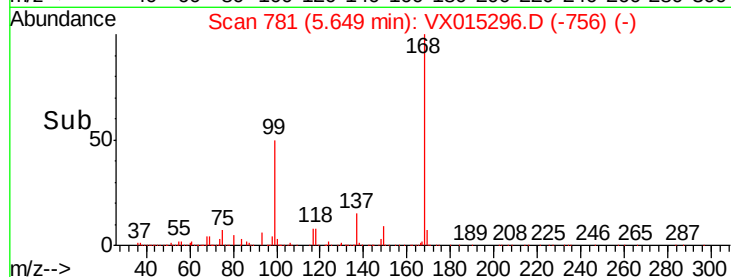
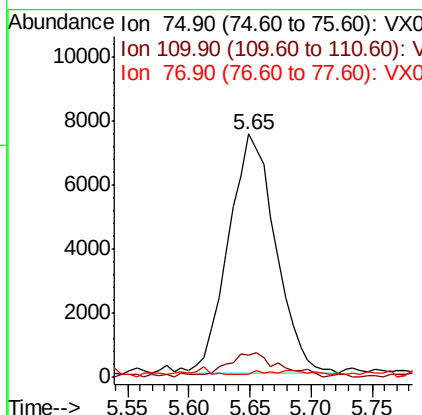
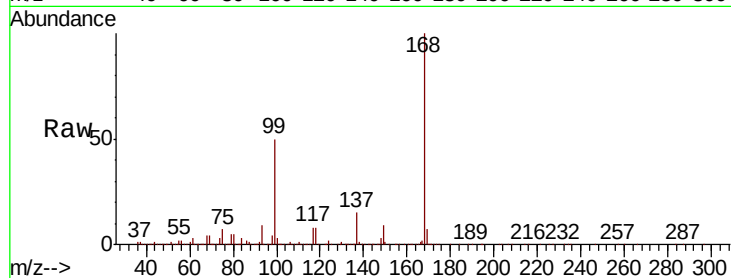




#36
 1,1-Dichloropropene
 Concen: 4.171 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015296.D
 Acq: 16 Mar 2020 15:57

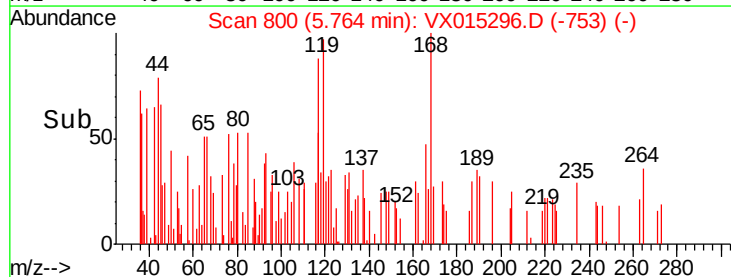
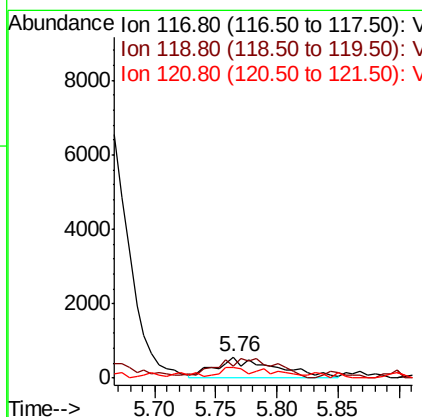
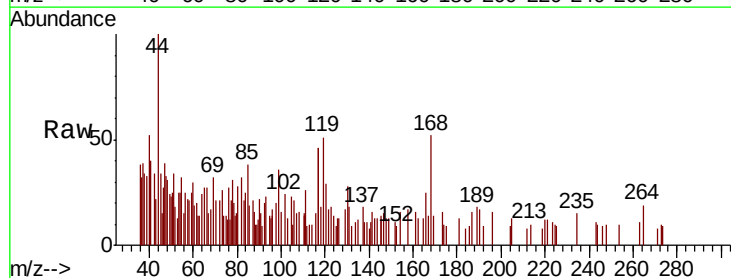
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP04-20200310

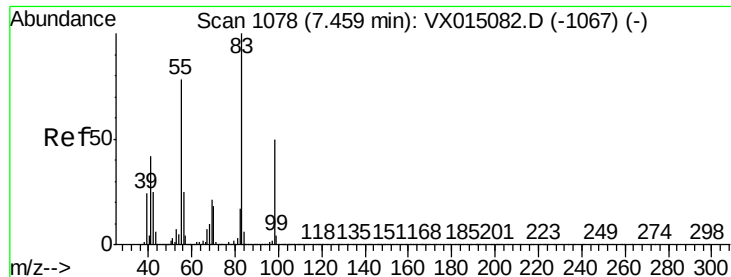
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.2	17.9	53.8#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 0.427 ug/l
 RT: 5.76 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: VX015296.D
 Acq: 16 Mar 2020 15:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	37.4	76.9	115.3#
121	26.5	24.6	37.0





#39

Methylcyclohexane

Concen: 3.765 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.26 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310

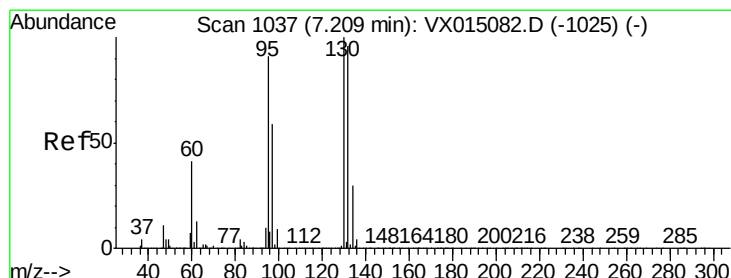
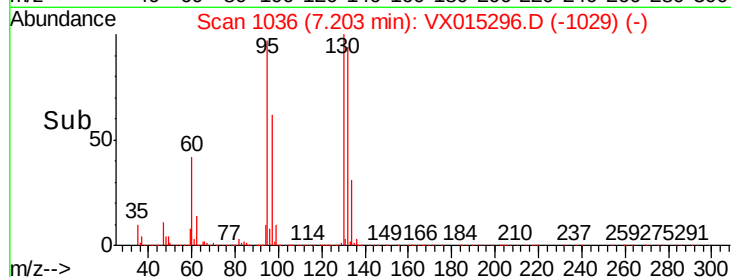
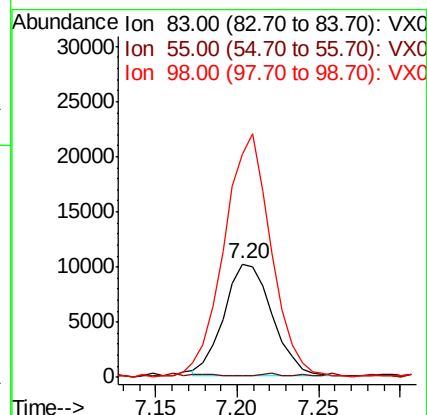
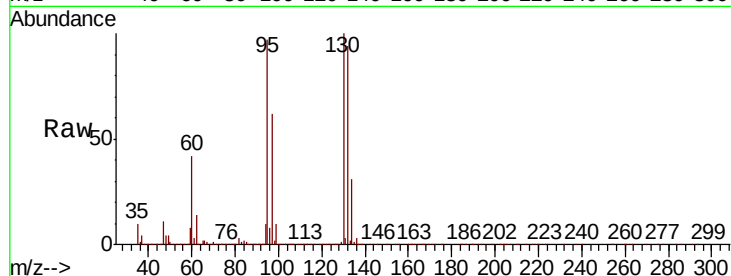
Tot Ion: 83 Resp: 21046

Ion Ratio Lower Upper

83 100

55 0.0 62.4 93.6#

98 197.0 39.7 59.5#



#44

Trichloroethene

Concen: 475.314 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015296.D

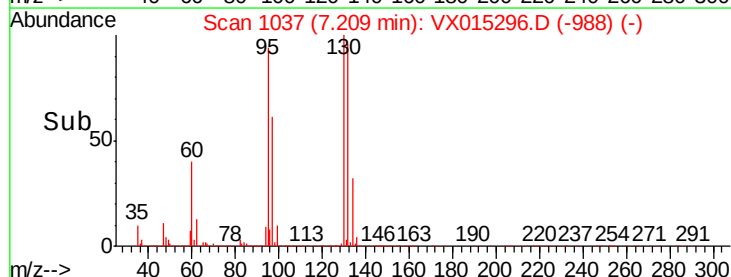
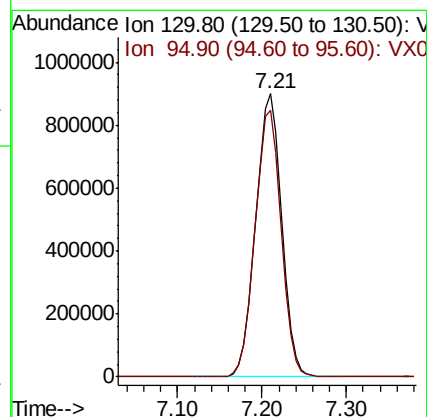
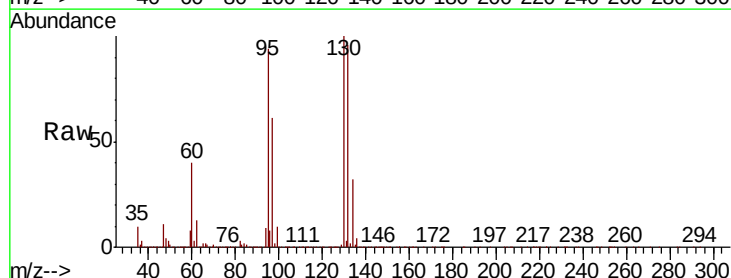
Acq: 16 Mar 2020 15:57

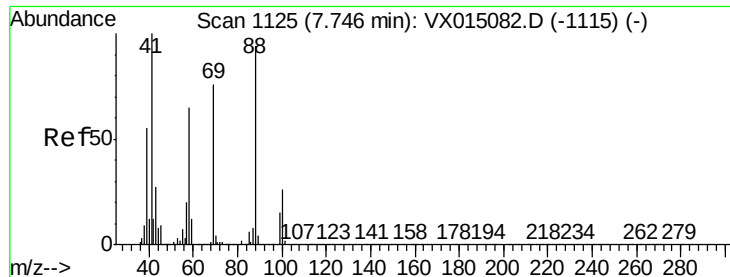
Tgt Ion:130 Resp: 1880049

Ion Ratio Lower Upper

130 100

95 94.3 0.0 181.2

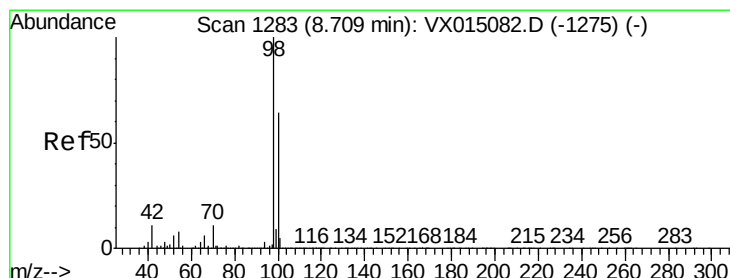
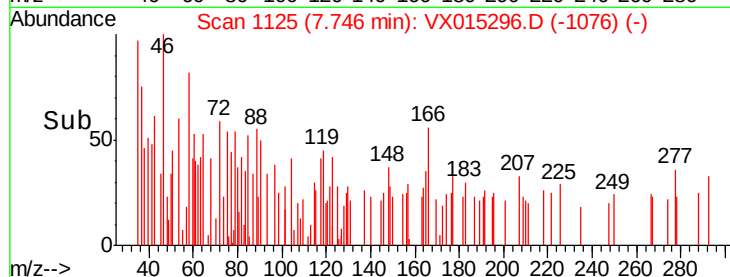
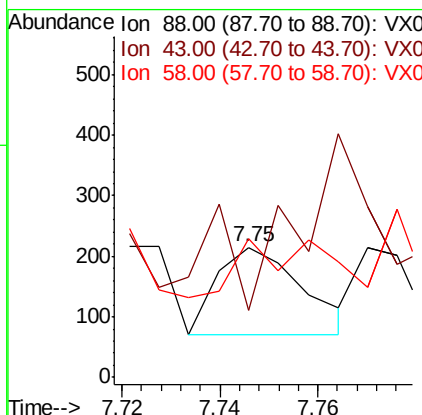
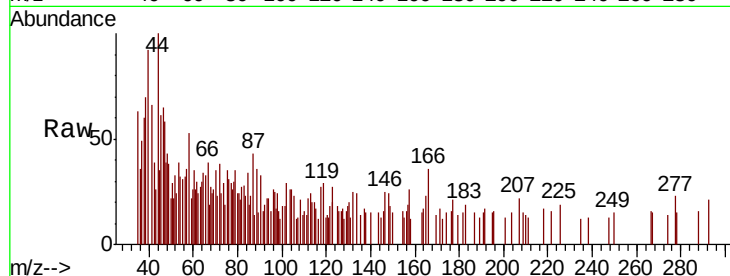




#49
1,4-Dioxane
Concen: 2.012 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.00 min
Lab File: VX015296.D
Acq: 16 Mar 2020 15:57

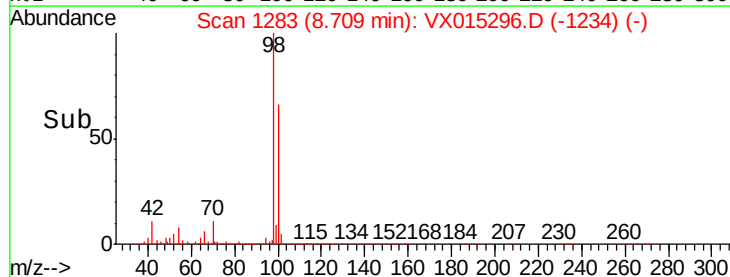
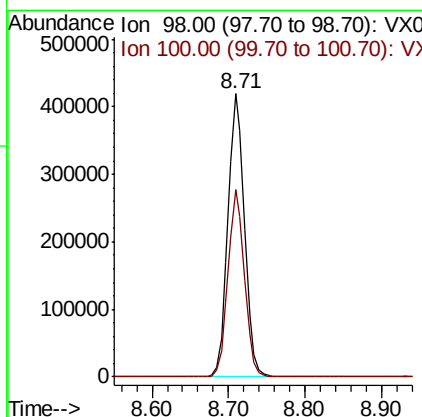
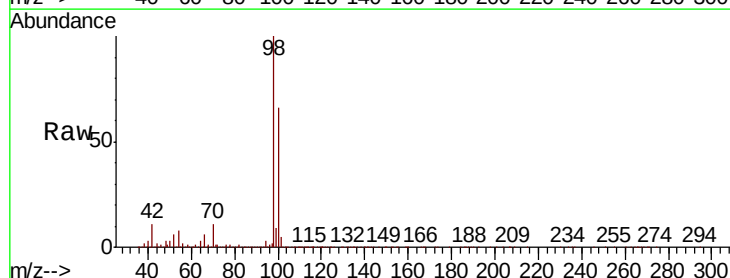
Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310

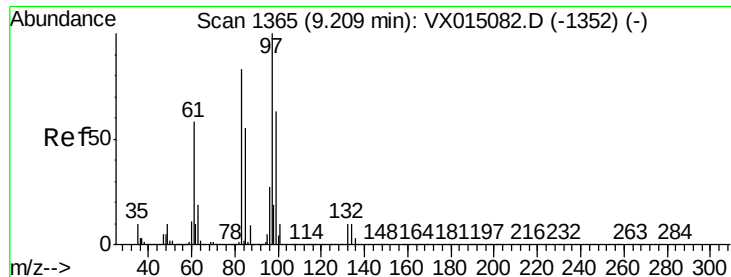
Tot Ion: 88 Resp: 173
Ion Ratio Lower Upper
88 100
43 37.6 27.0 40.4
58 68.2 55.6 83.4



#50
Toluene-d8
Concen: 50.468 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015296.D
Acq: 16 Mar 2020 15:57

Tgt Ion: 98 Resp: 627144
Ion Ratio Lower Upper
98 100
100 65.5 52.4 78.6

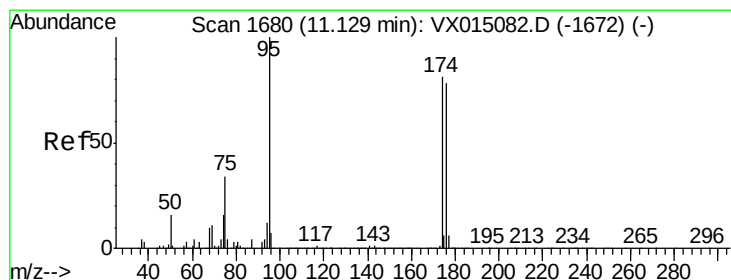
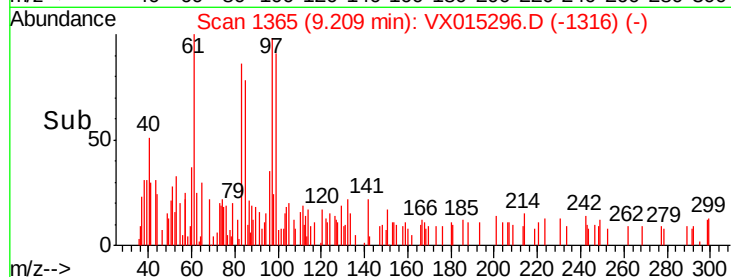
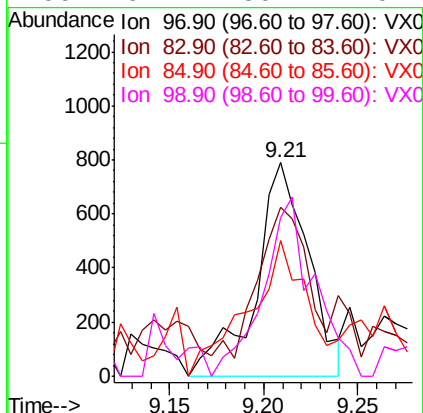
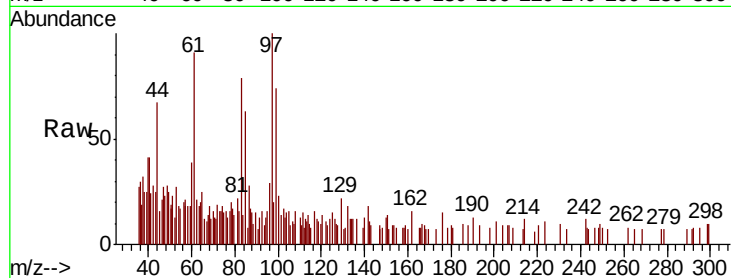




#55
 1,1,2-Trichloroethane
 Concen: 0.430 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VX015296.D
 Acq: 16 Mar 2020 15:57

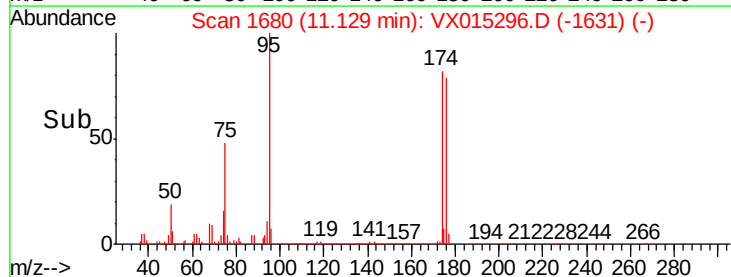
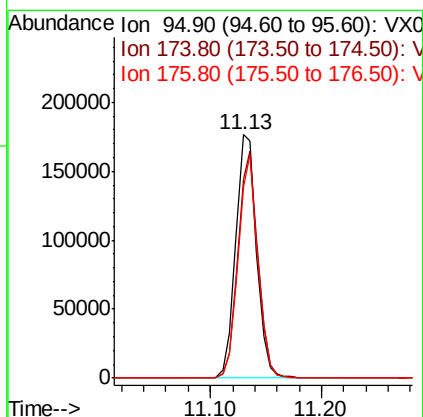
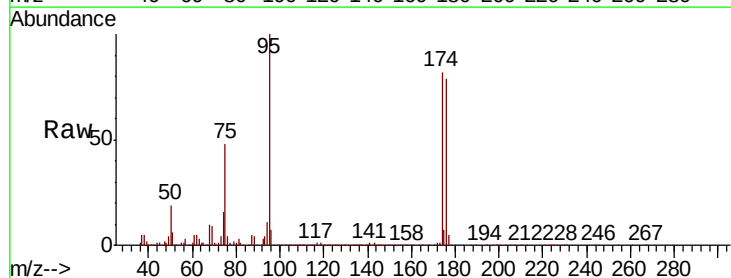
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP04-20200310

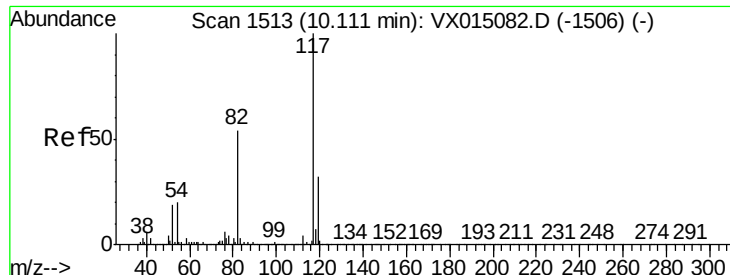
Tot Ion:	97	Resp:	1538
Ion	Ratio	Lower	Upper
97	100		
83	55.9	66.4	99.6#
85	63.4	43.5	65.3
99	61.1	50.7	76.1



#62
 4-Bromofluorobenzene
 Concen: 51.646 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.00 min
 Lab File: VX015296.D
 Acq: 16 Mar 2020 15:57

Tgt Ion:	95	Resp:	228919
Ion	Ratio	Lower	Upper
95	100		
174	89.0	0.0	177.6
176	86.4	0.0	170.2

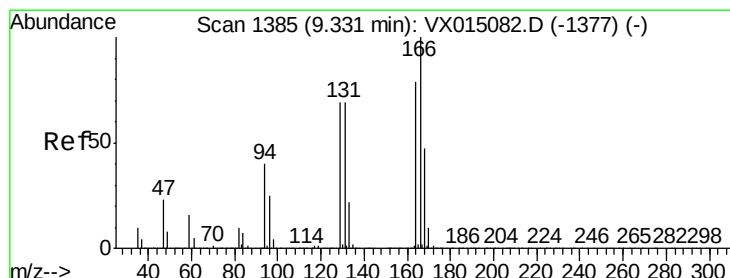
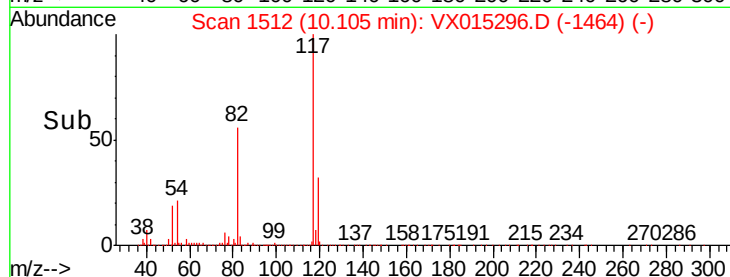
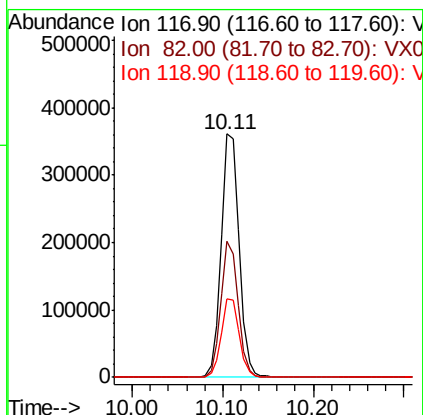
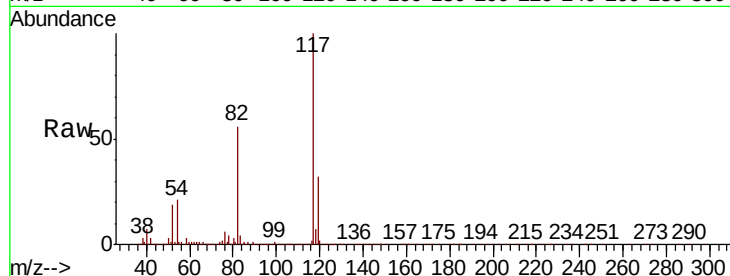




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX015296.D
Acq: 16 Mar 2020 15:57

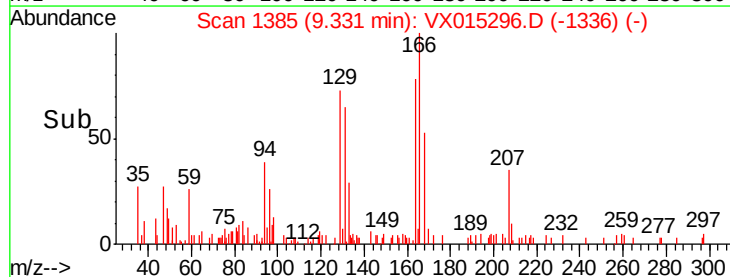
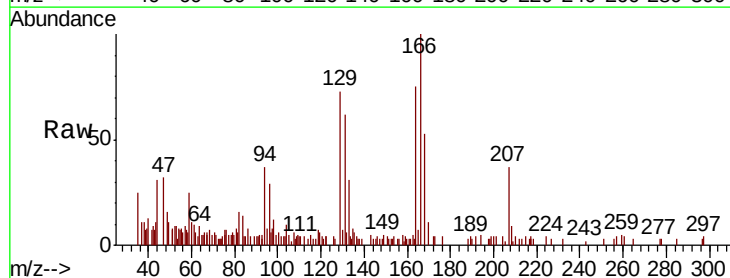
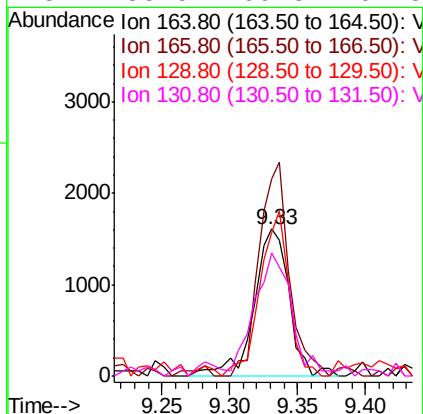
Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310

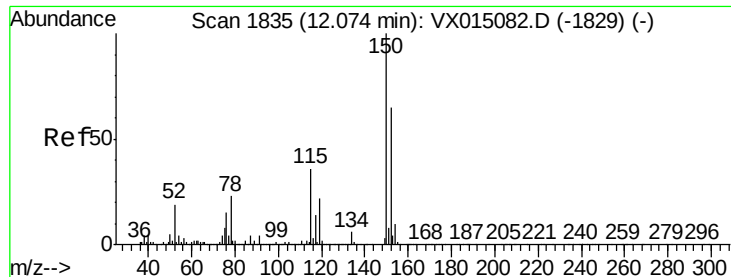
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.3	64.9
119	32.0	25.8	38.8



#64
Tetrachloroethene
Concen: 0.708 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015296.D
Acq: 16 Mar 2020 15:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.2	101.1	151.7
129	97.3	69.4	104.0
131	83.5	69.8	104.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015296.D

Acq: 16 Mar 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310

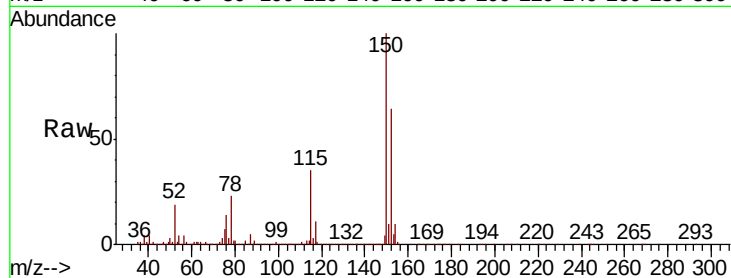
Tot Ion:152 Resp: 251593

Ion Ratio Lower Upper

152 100

115 55.8 38.2 114.6

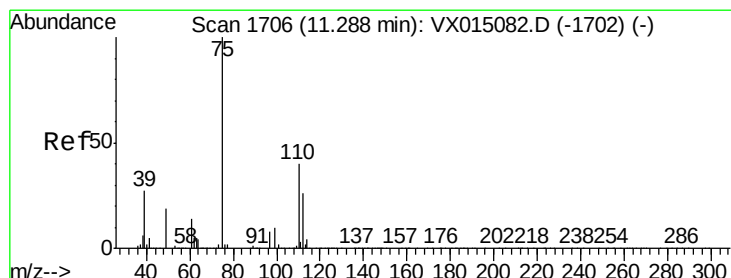
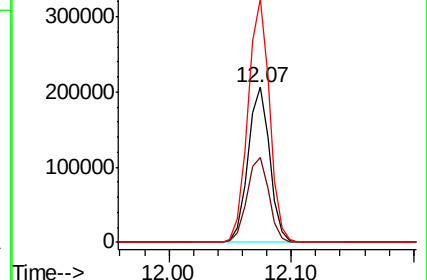
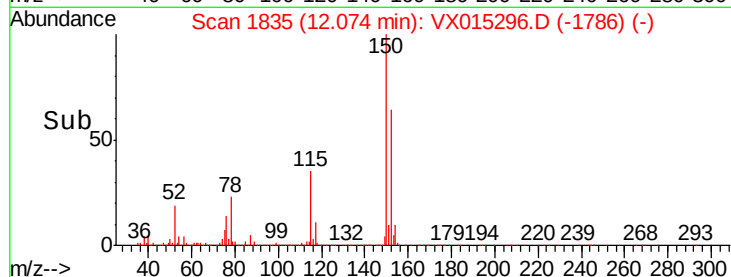
150 157.0 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.129 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015296.D

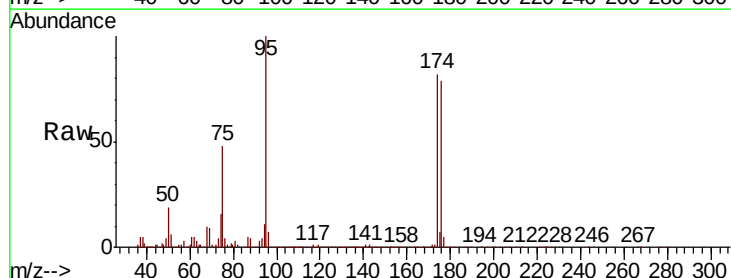
Acq: 16 Mar 2020 15:57

Tgt Ion: 75 Resp: 111055

Ion Ratio Lower Upper

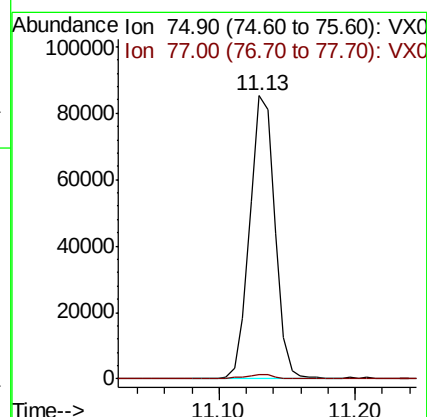
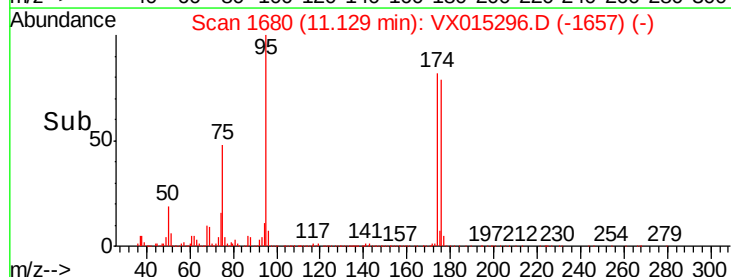
75 100

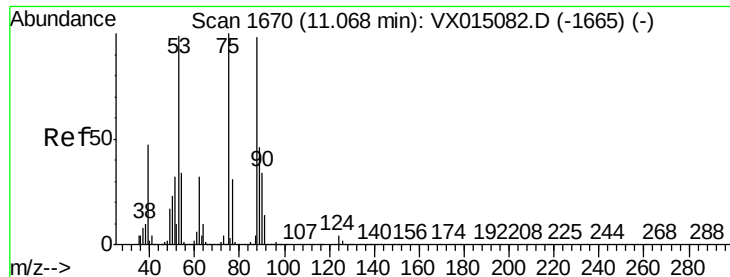
77 1.9 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

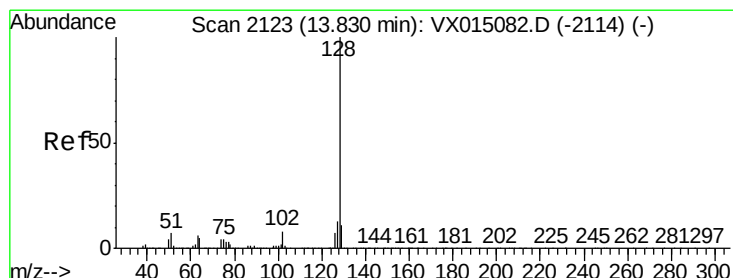
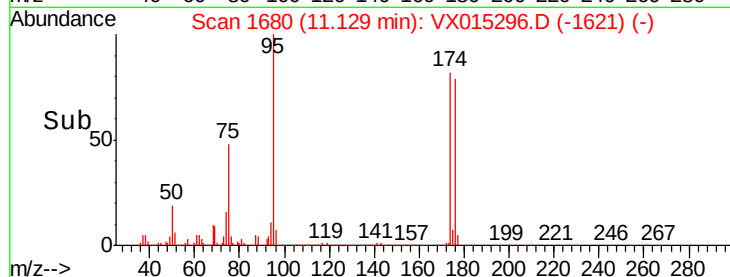
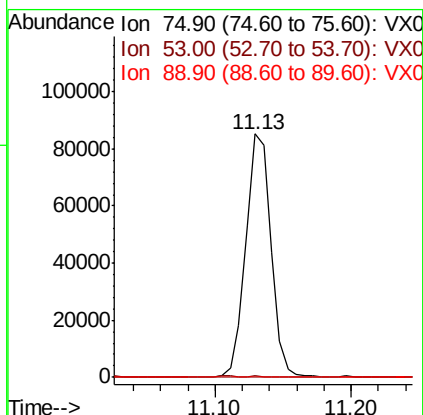
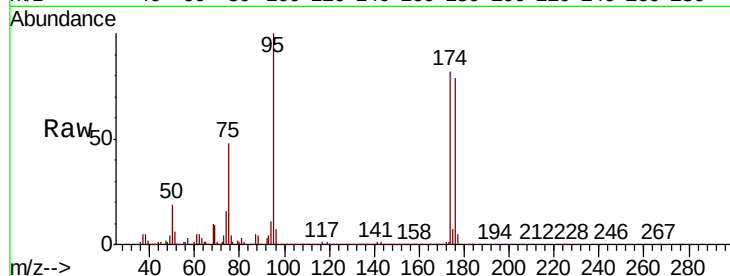




#81
trans-1,4-Dichloro-2-butene
Concen: 62.802 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX015296.D
Acq: 16 Mar 2020 15:57

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310

Tot Ion: 75 Resp: 111055
Ion Ratio Lower Upper
75 100
53 0.6 77.9 116.9#
89 0.0 36.2 54.2#



#95
Naphthalene
Concen: 1.463 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015296.D
Acq: 16 Mar 2020 15:57

Tgt Ion: 128 Resp: 733
Ion Ratio Lower Upper
128 100
127 19.4 10.3 15.5#
129 0.0 8.6 13.0#

