

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121619\
 Data File : VX014037.D
 Acq On : 16 Dec 2019 16:00
 Operator : JC/SP
 Sample : K6252-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP06-20191209

Quant Time: Dec 17 03:29:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	564948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	860356	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	766211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	321161	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	317721	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
35) Dibromofluoromethane	5.49	113	261569	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
50) Toluene-d8	8.71	98	1025738	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	11.14	95	337628	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	

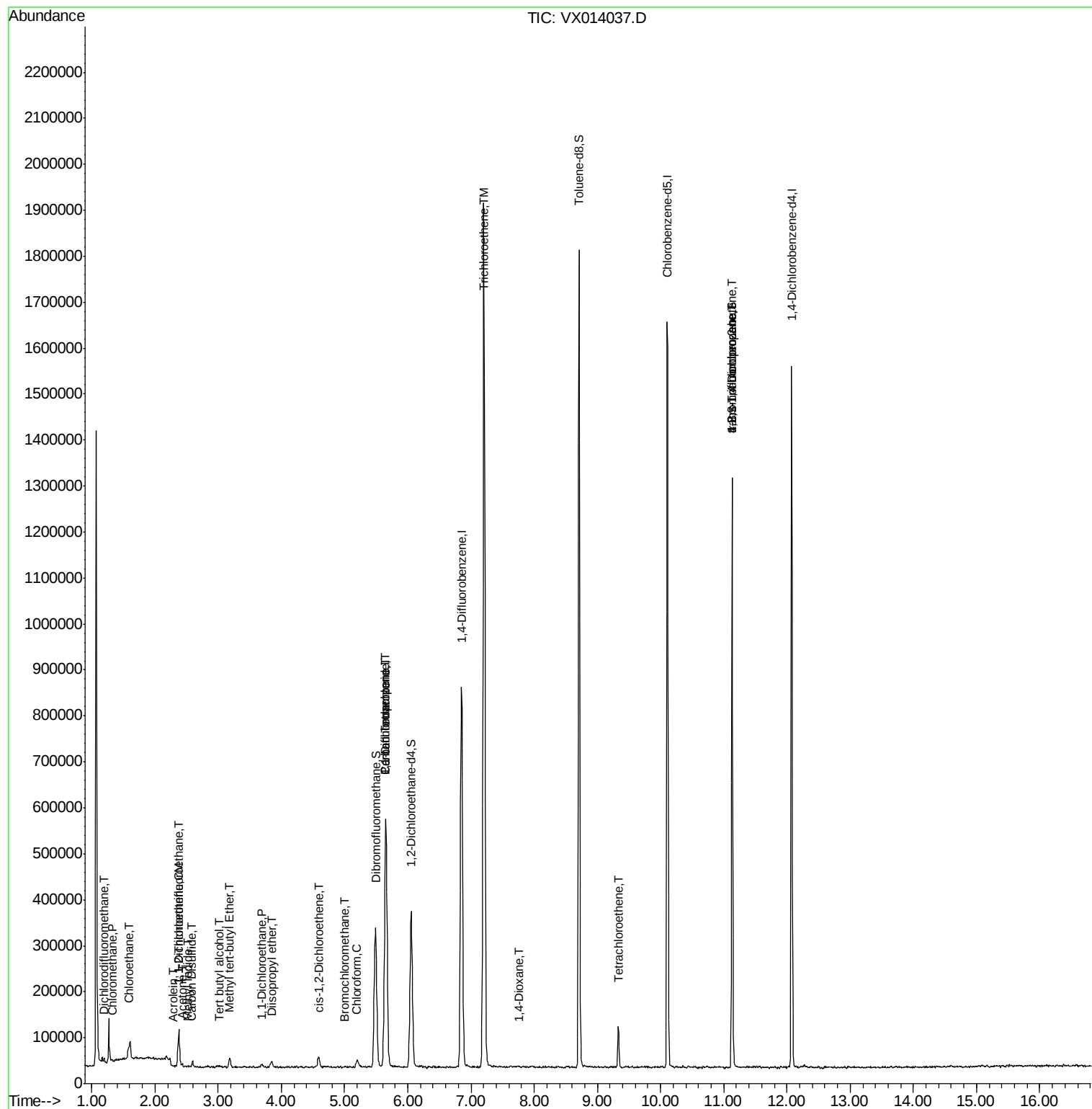
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	2896	0.573	ug/l	91
3) Chloromethane	1.32	50	2231	0.329	ug/l	97
6) Chloroethane	1.58	64	11915	2.697	ug/l #	45
9) 1,1,2-Trichlorotrifluoroet	2.37	101	30232	5.661	ug/l	98
10) Methyl Iodide	2.51	142	541	2.694	ug/l #	74
11) Tert butyl alcohol	3.02	59	1918	1.386	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	7567	1.392	ug/l #	81
13) Acrolein	2.28	56	1015	1.282	ug/l #	64
16) Acetone	2.43	43	8376	2.015	ug/l #	82
17) Carbon Disulfide	2.57	76	1719	0.862	ug/l #	90
19) Methyl tert-butyl Ether	3.18	73	23103	1.294	ug/l	95
22) Diisopropyl ether	3.85	45	14334	0.741	ug/l #	82
24) 1,1-Dichloroethane	3.69	63	9167	0.852	ug/l #	80
27) cis-1,2-Dichloroethene	4.59	96	13943	2.059	ug/l	87
28) Bromochloromethane	5.01	49	395	0.548	ug/l #	91
30) Chloroform	5.20	83	21550	2.113	ug/l	93
36) 1,1-Dichloropropene	5.65	75	37846	4.794	ug/l #	50
38) Carbon Tetrachloride	5.65	117	48496	6.743	ug/l #	16
44) Trichloroethene	7.20	130	743584	110.834	ug/l	99
49) 1,4-Dioxane	7.75	88	2111	14.684	ug/l #	75
64) Tetrachloroethene	9.33	164	18099	2.669	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	164898	23.650	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	164898	66.753	ug/l #	12

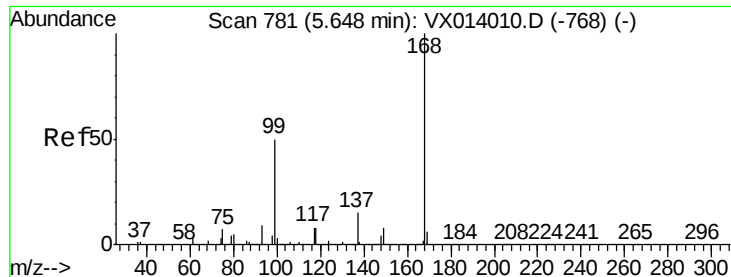
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121619\
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Quant Time: Dec 17 03:29:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

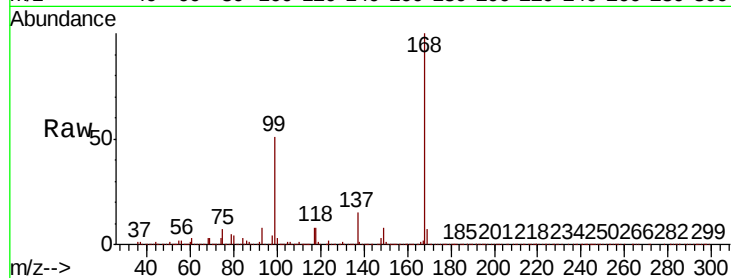
DUP06-20191209

Tot Ion:168 Resp: 564948

Ion Ratio Lower Upper

168 100

99 50.5 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

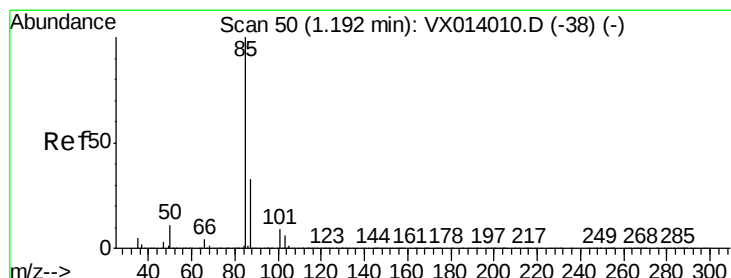
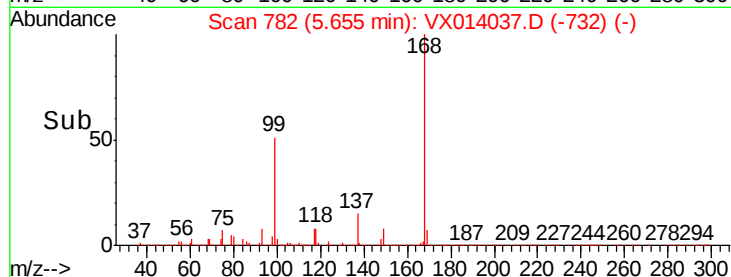
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.573 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014037.D

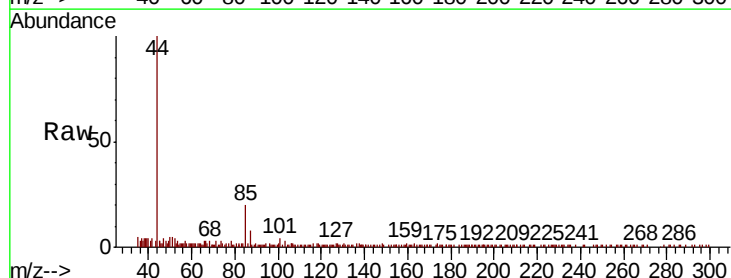
Acq: 16 Dec 2019 16:00

Tgt Ion: 85 Resp: 2896

Ion Ratio Lower Upper

85 100

87 37.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

2000

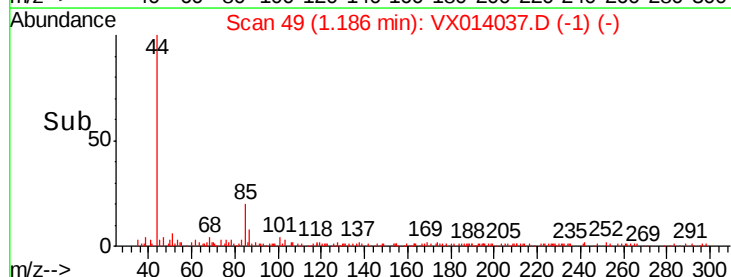
1500

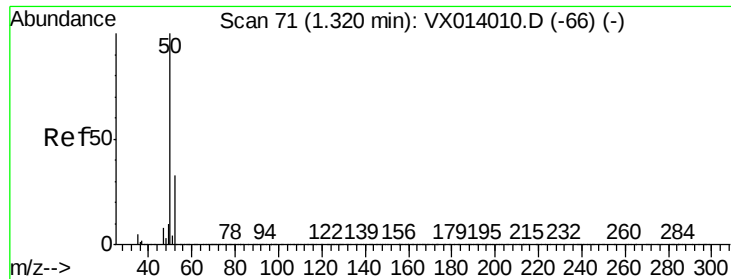
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.329 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

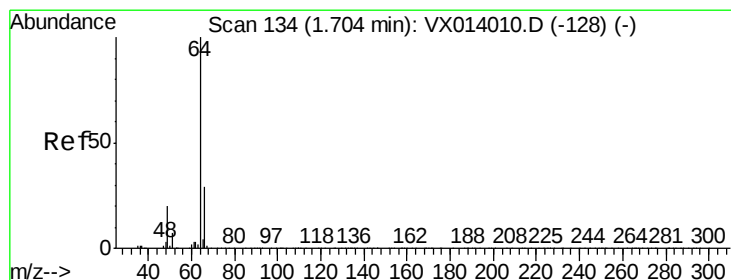
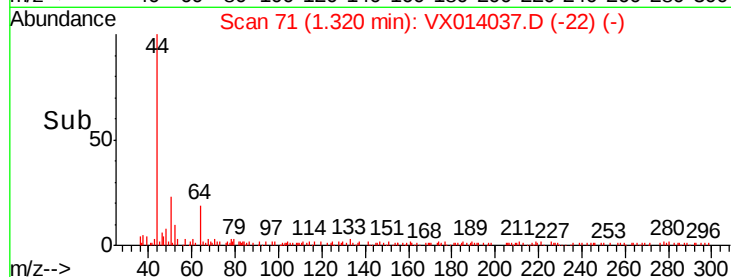
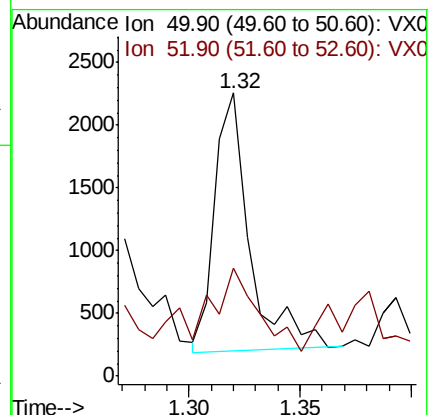
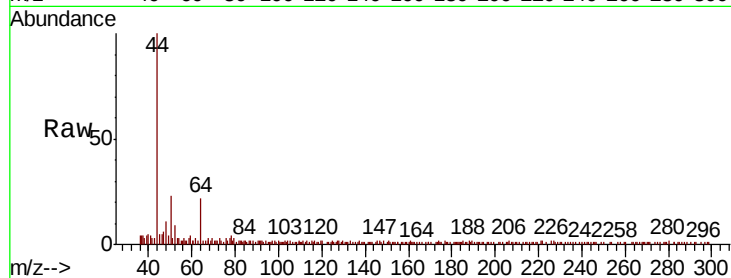
DUP06-20191209

Tot Ion: 50 Resp: 2231

Ion Ratio Lower Upper

50 100

52 30.9 26.2 39.4



#6

Chloroethane

Concen: 2.697 ug/l

RT: 1.58 min Scan# 113

Delta R.T. -0.13 min

Lab File: VX014037.D

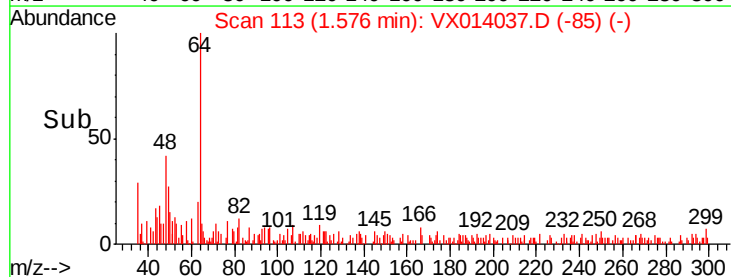
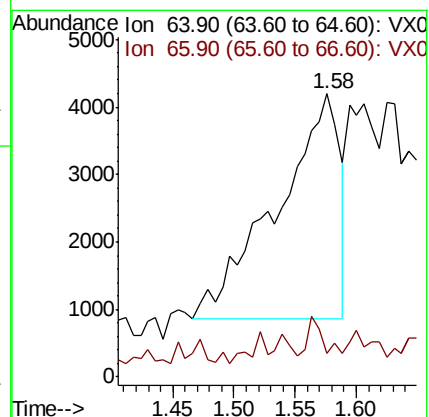
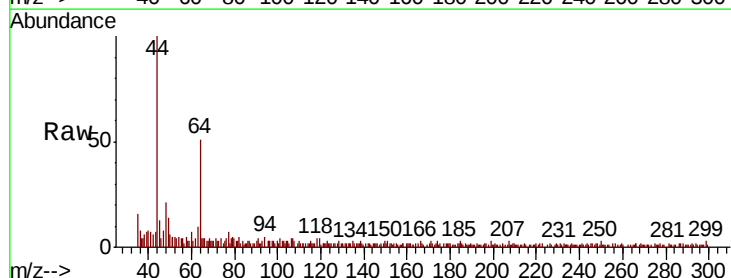
Acq: 16 Dec 2019 16:00

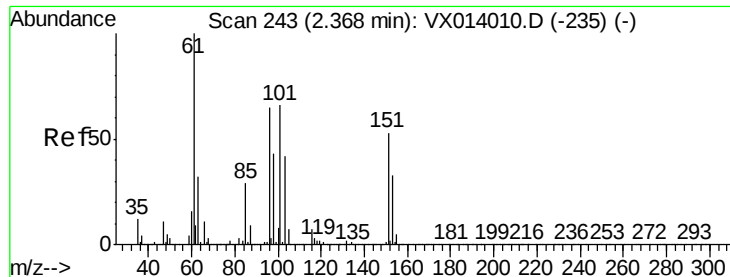
Tgt Ion: 64 Resp: 11915

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.661 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20191209

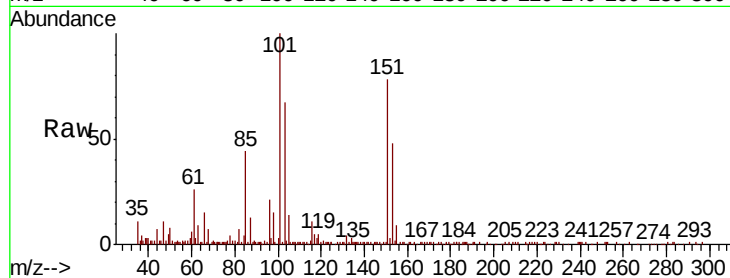
Tot Ion:101 Resp: 30232

Ion Ratio Lower Upper

101 100

85 43.1 33.7 50.5

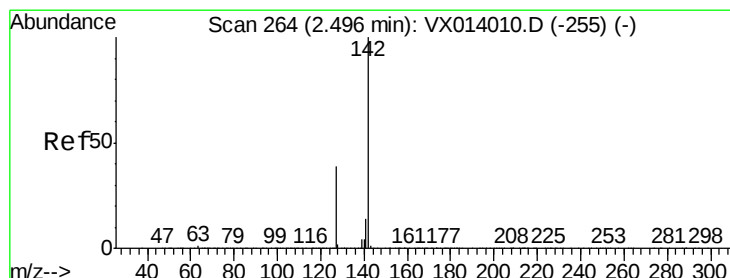
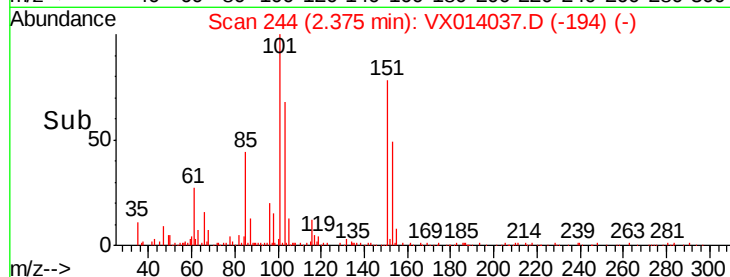
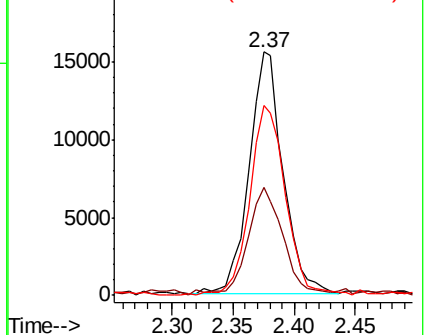
151 82.2 64.5 96.7



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



#10

Methyl Iodide

Concen: 2.694 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

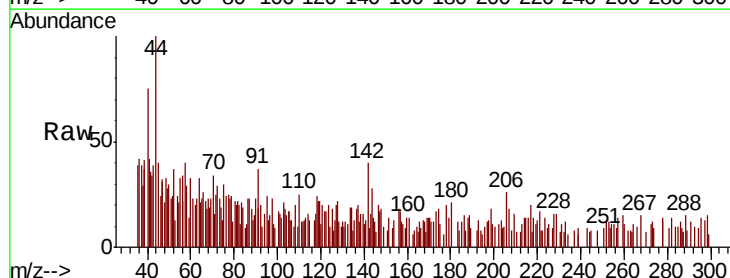
Tgt Ion:142 Resp: 541

Ion Ratio Lower Upper

142 100

127 47.1 31.6 47.4

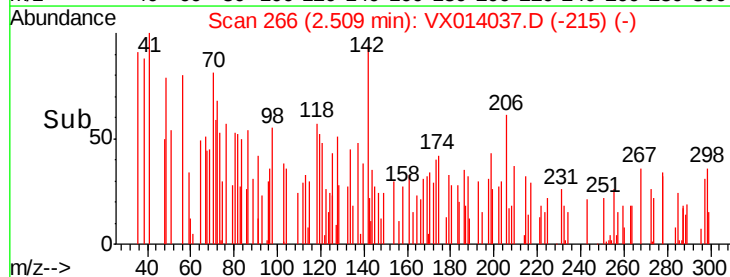
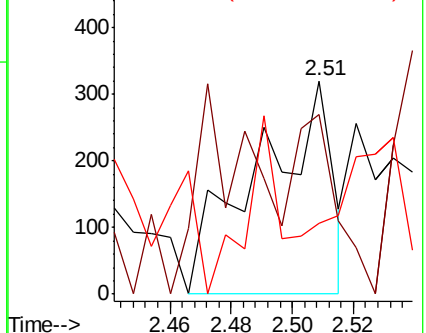
141 40.3 11.6 17.4#

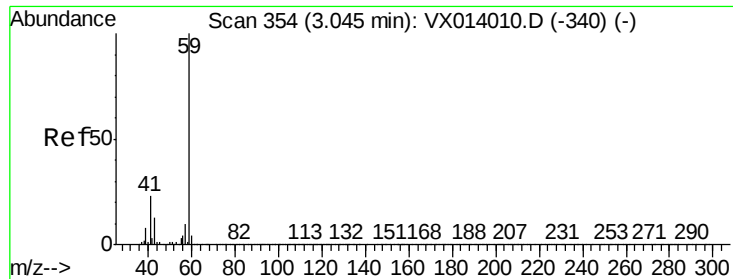


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



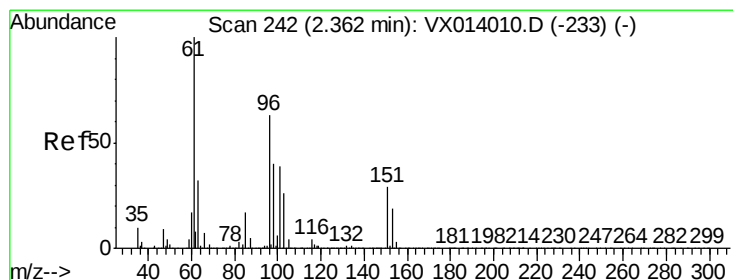
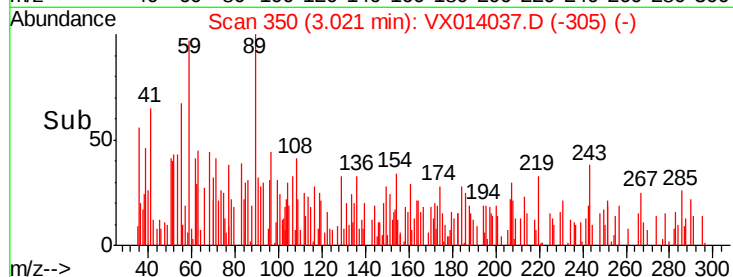
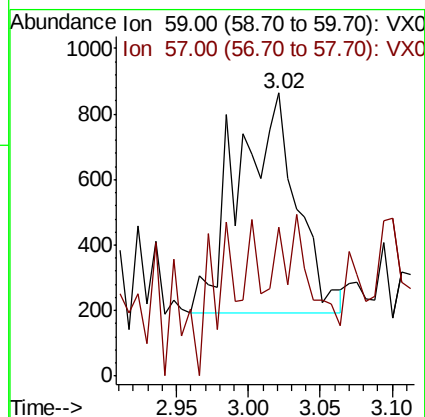
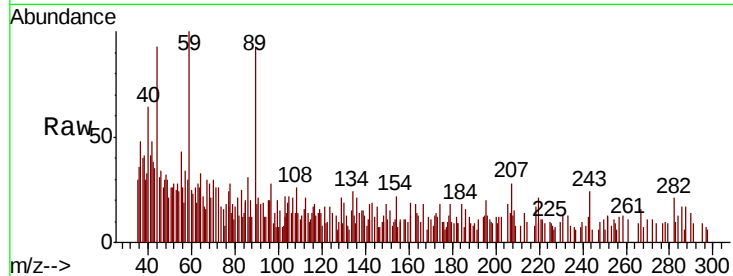


#11

Tert butyl alcohol
Concen: 1.386 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20191209

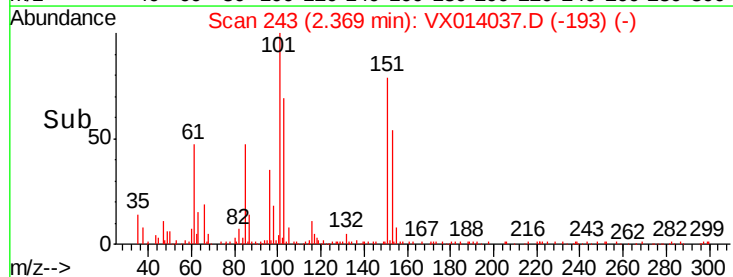
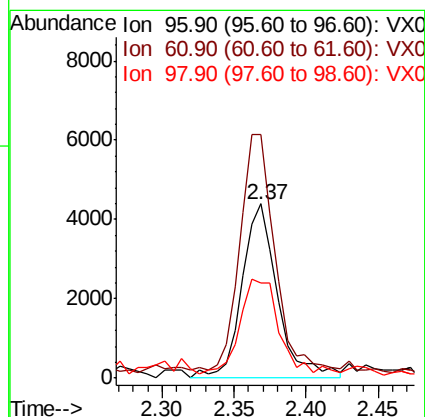
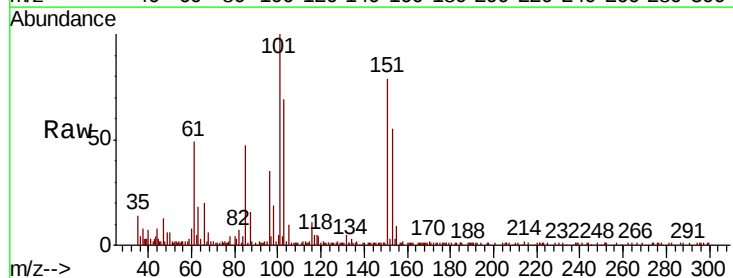
Tot Ion: 59 Resp: 1918
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

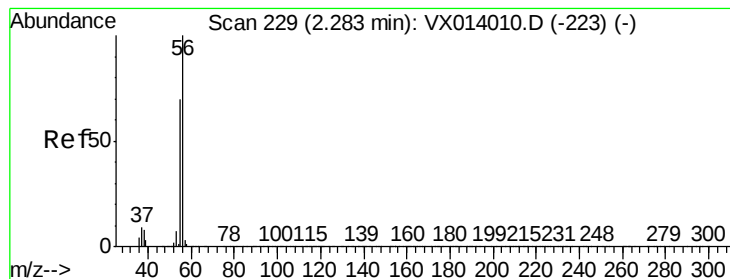


#12

1,1-Dichloroethene
Concen: 1.392 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

Tgt Ion: 96 Resp: 7567
Ion Ratio Lower Upper
96 100
61 134.2 127.9 191.9
98 49.5 50.5 75.7#





#13

Acrolein

Concen: 1.282 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

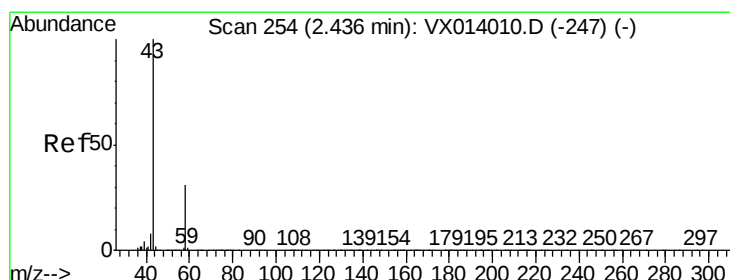
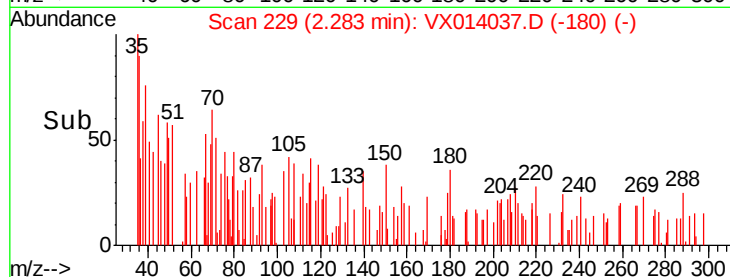
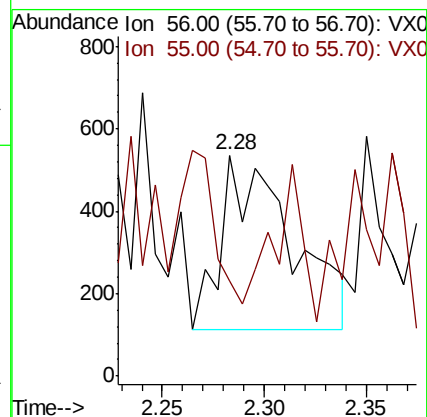
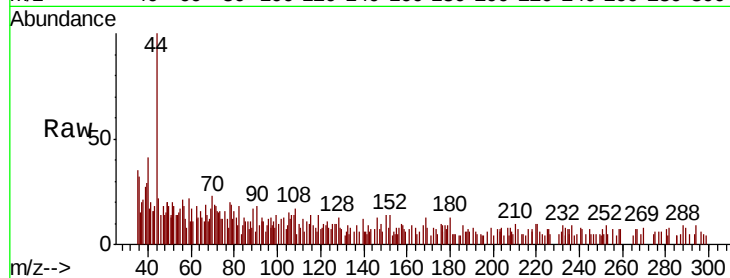
DUP06-20191209

Tot Ion: 56 Resp: 1015

Ion Ratio Lower Upper

56 100

55 41.4 56.9 85.3#



#16

Acetone

Concen: 2.015 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014037.D

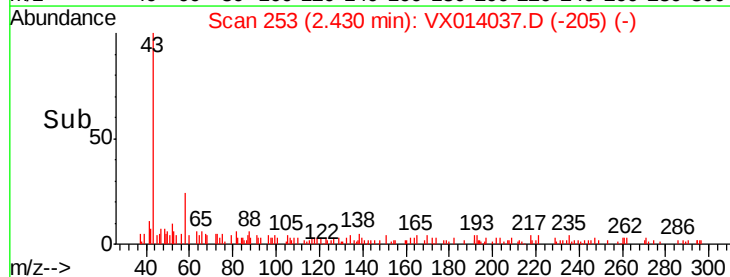
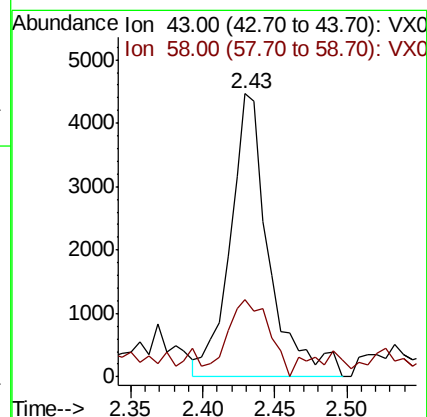
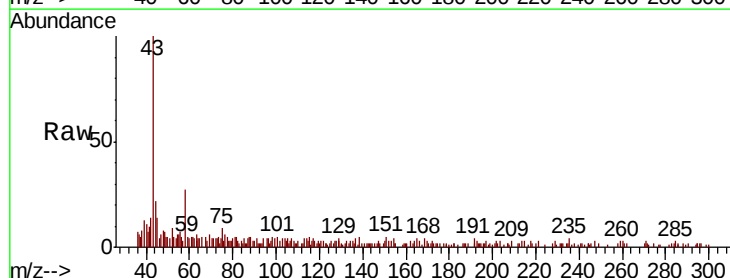
Acq: 16 Dec 2019 16:00

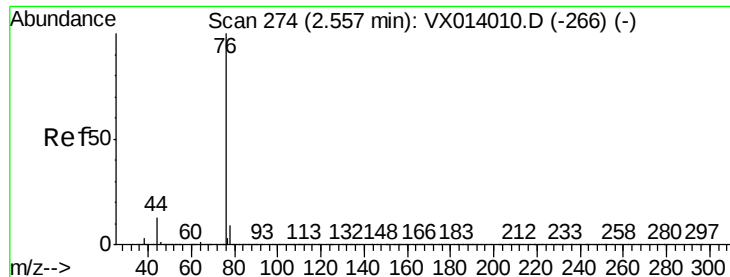
Tgt Ion: 43 Resp: 8376

Ion Ratio Lower Upper

43 100

58 21.4 24.9 37.3#





#17

Carbon Disulfide

Concen: 0.862 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

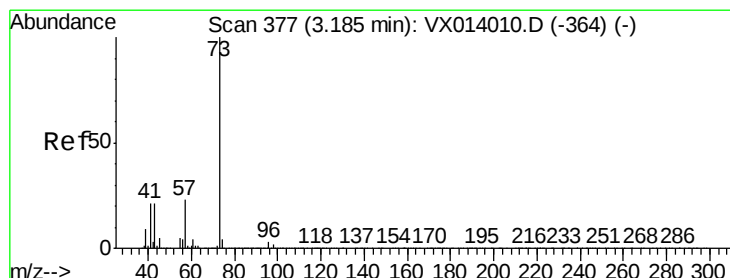
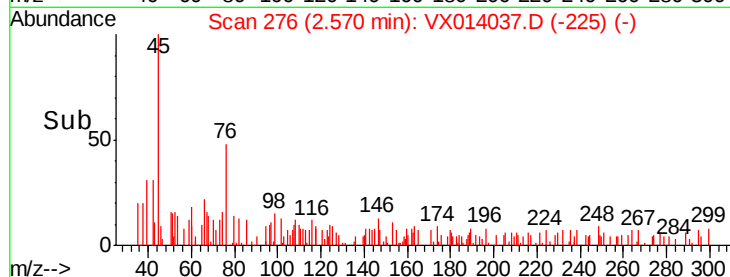
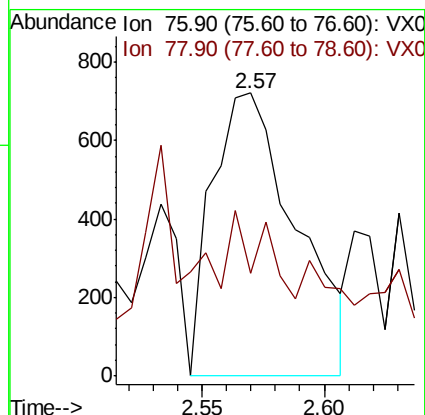
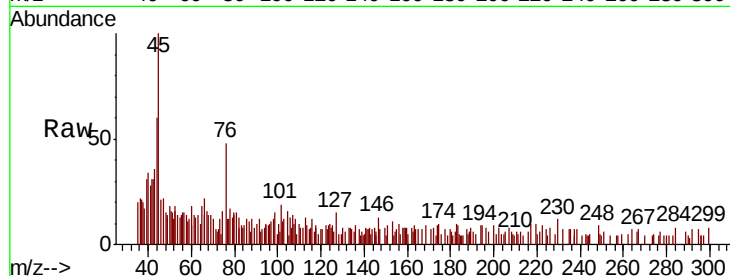
DUP06-20191209

Tot Ion: 76 Resp: 1719

Ion Ratio Lower Upper

76 100

78 5.4 7.2 10.8#



#19

Methyl tert-butyl Ether

Concen: 1.294 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.01 min

Lab File: VX014037.D

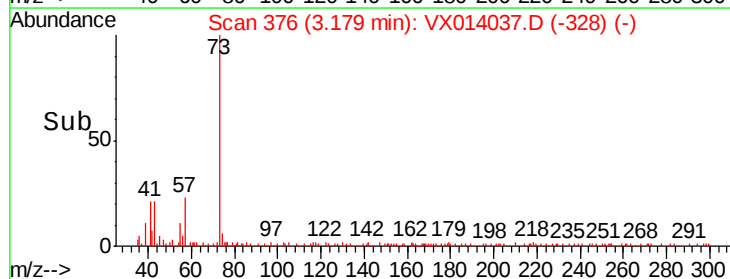
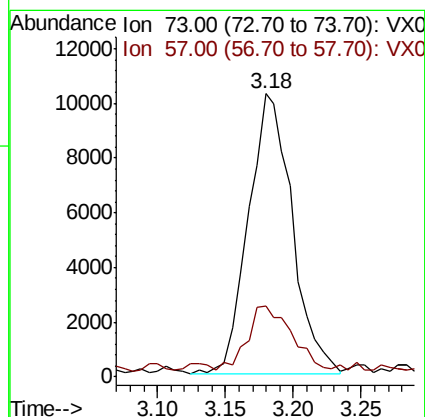
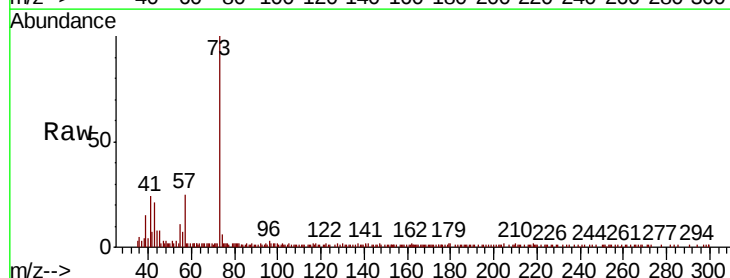
Acq: 16 Dec 2019 16:00

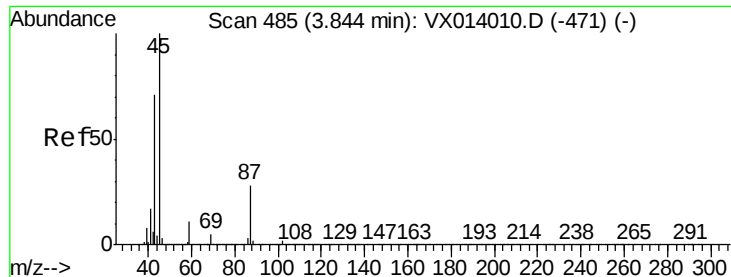
Tgt Ion: 73 Resp: 23103

Ion Ratio Lower Upper

73 100

57 20.9 18.8 28.2

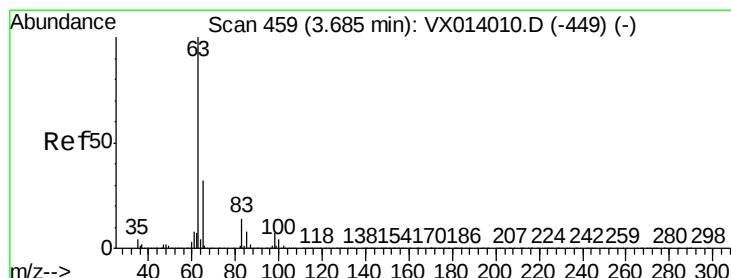
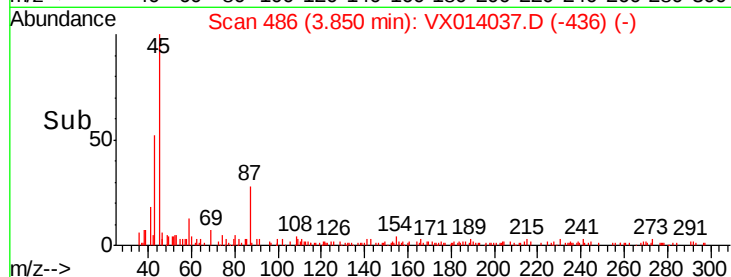
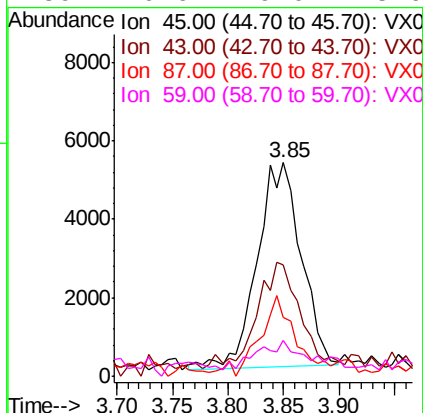
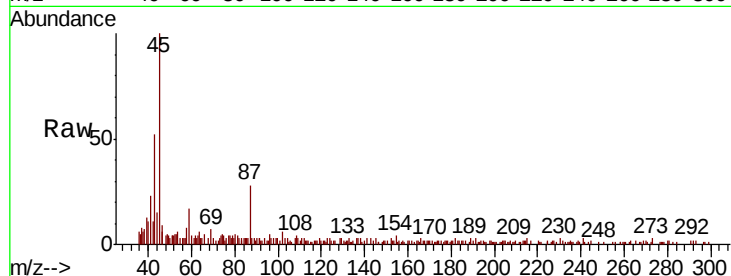




#22
Diisopropyl ether
Concen: 0.741 ug/l
RT: 3.85 min Scan# 486
Delta R.T. 0.01 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

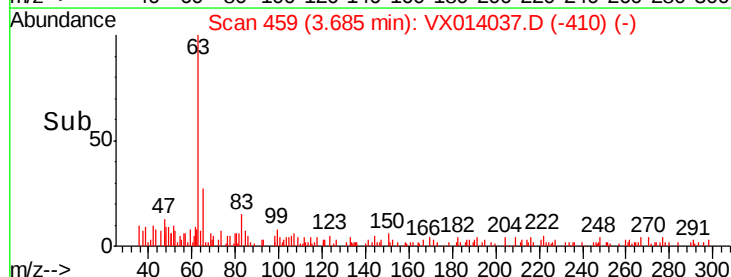
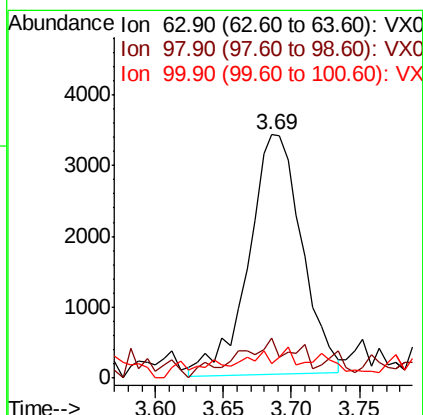
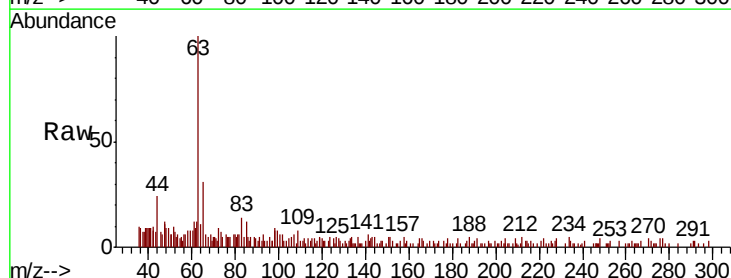
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20191209

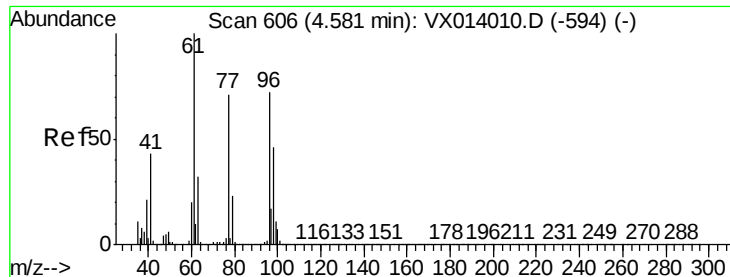
Tot Ion:	45	Resp:	14334
Ion	Ratio	Lower	Upper
45	100		
43	49.9	57.4	86.0#
87	26.6	21.9	32.9
59	10.6	9.0	13.6



#24
1,1-Dichloroethane
Concen: 0.852 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

Tgt Ion:	63	Resp:	9167
Ion	Ratio	Lower	Upper
63	100		
98	17.0	3.6	10.8#
100	2.6	2.3	6.8



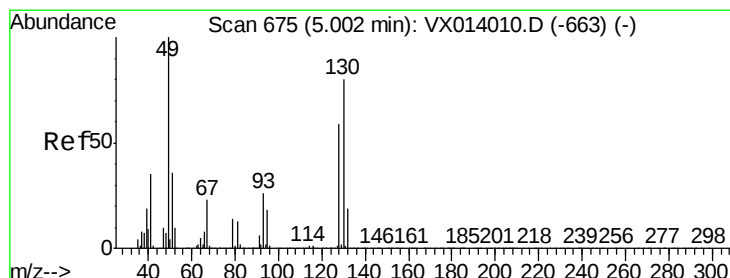
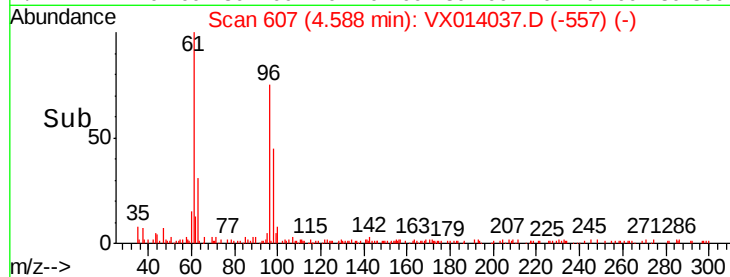
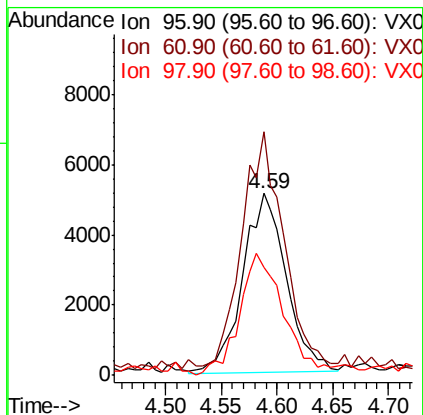
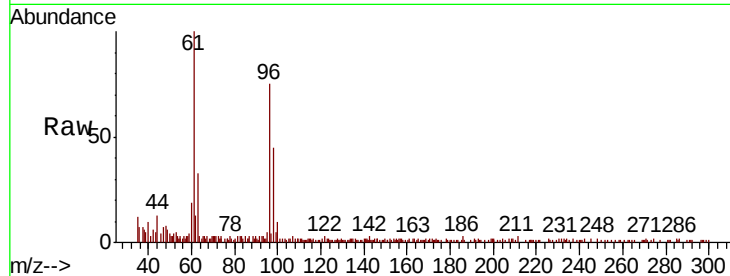


#27

cis-1,2-Dichloroethene
Concen: 2.059 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20191209

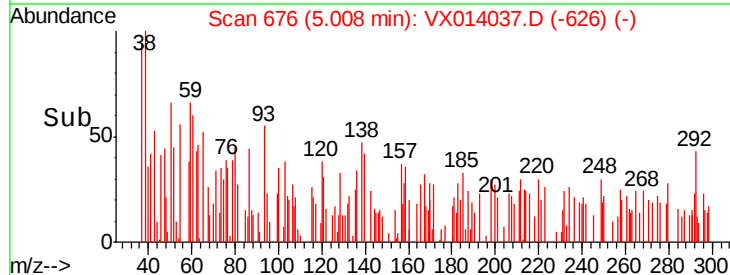
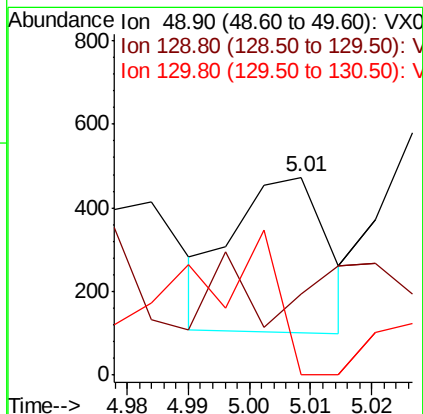
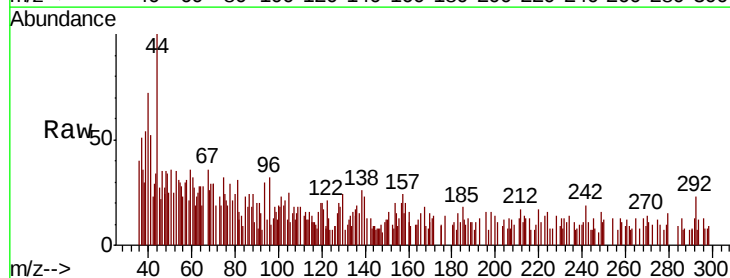
Tot Ion: 96 Resp: 13943
Ion Ratio Lower Upper
96 100
61 123.3 0.0 288.4
98 69.1 0.0 129.6

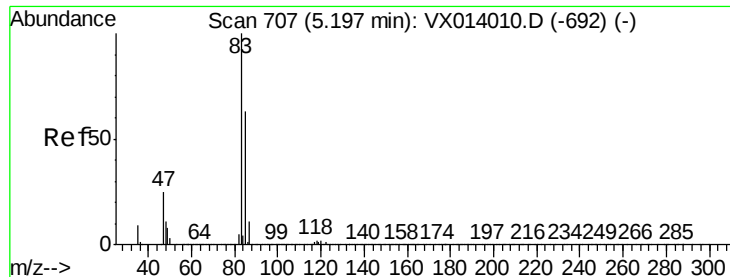


#28

Bromochloromethane
Concen: 0.548 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

Tgt Ion: 49 Resp: 395
Ion Ratio Lower Upper
49 100
129 17.7 0.0 5.0#
130 87.6 64.6 97.0

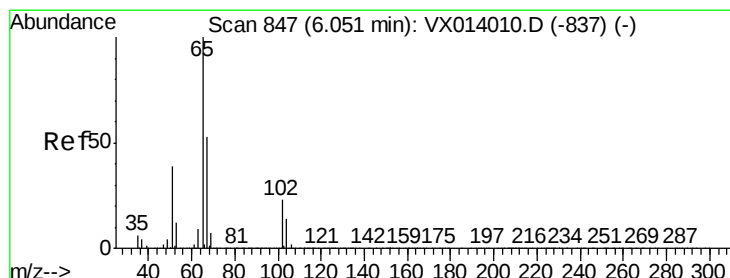
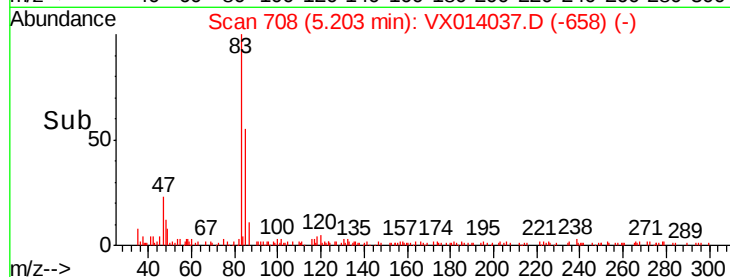
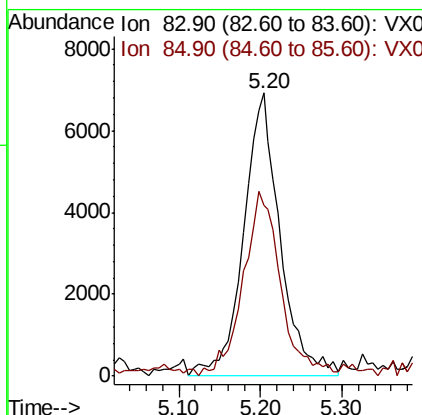
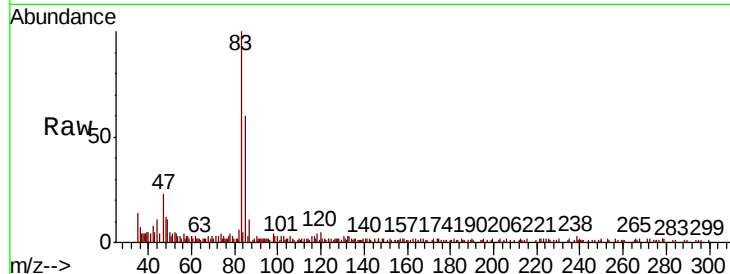




#30
Chloroform
Concen: 2.113 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

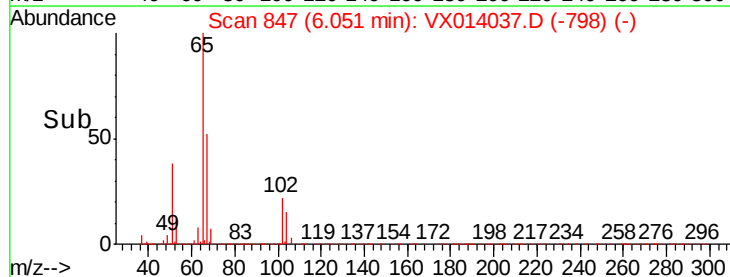
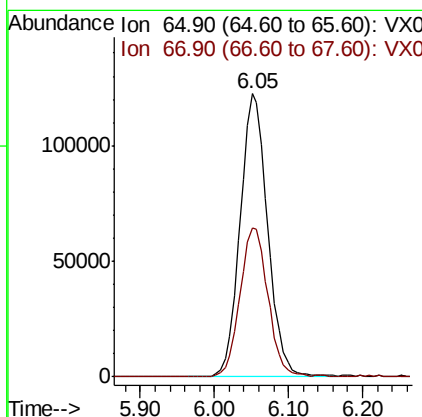
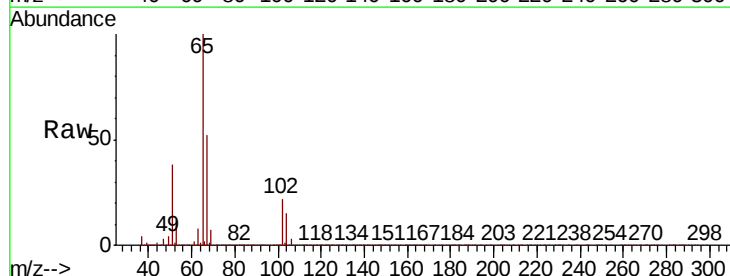
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20191209

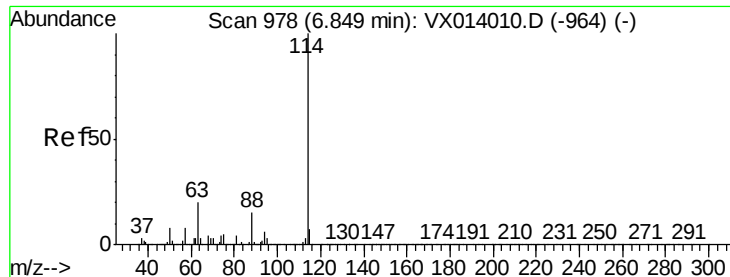
Tot Ion: 83 Resp: 21550
Ion Ratio Lower Upper
83 100
85 58.0 50.8 76.2



#33
1,2-Dichloroethane-d4
Concen: 49.621 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

Tgt Ion: 65 Resp: 317721
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

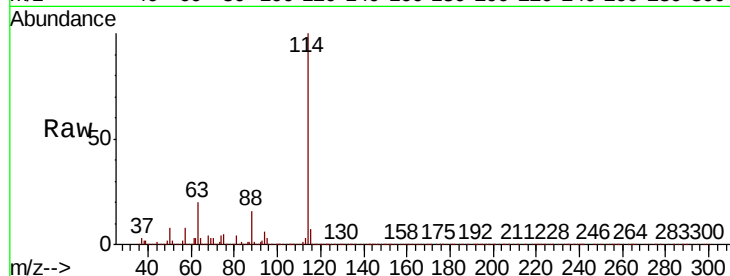
Instrument :

MSVOA_X

ClientSampleId :

DUP06-20191209

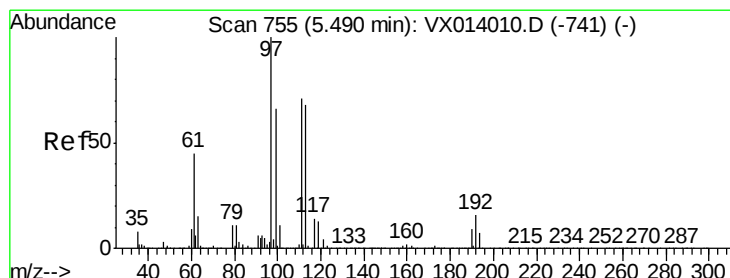
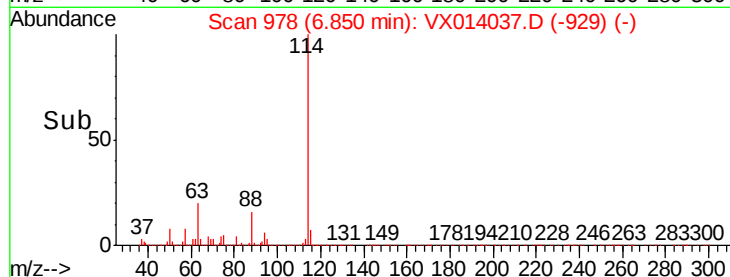
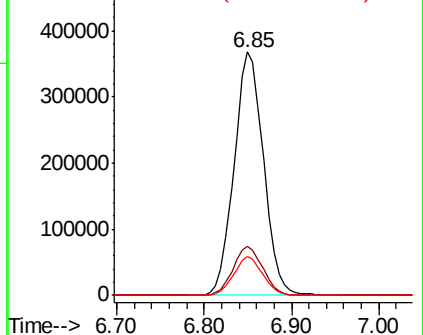
Tot Ion:	114	Resp:	860356
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	15.8	0.0	30.4



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: 50.013 ug/l

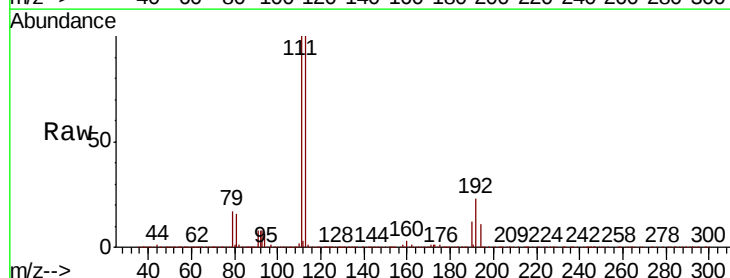
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

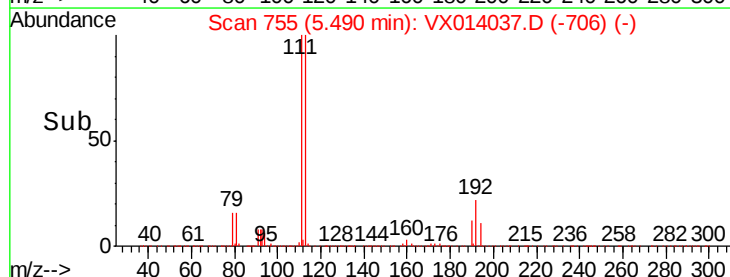
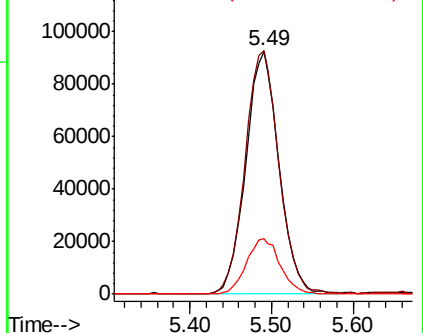
Tgt Ion:	113	Resp:	261569
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.0	123.0
192	23.5	19.3	28.9

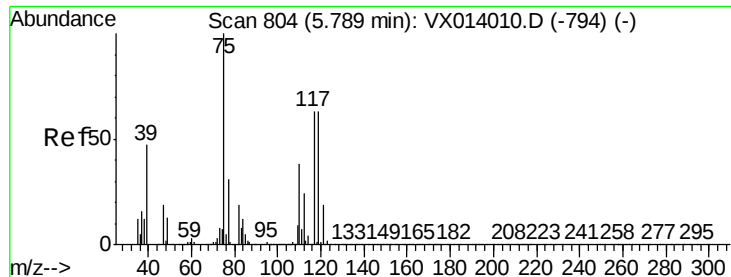


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.794 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20191209

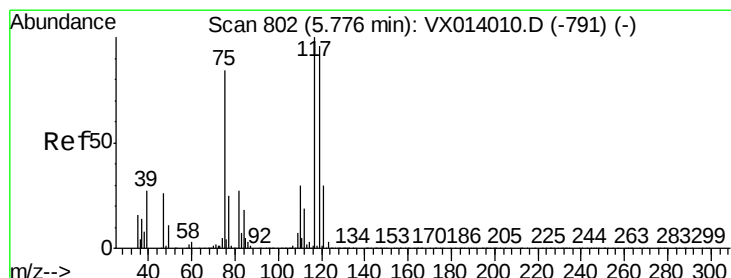
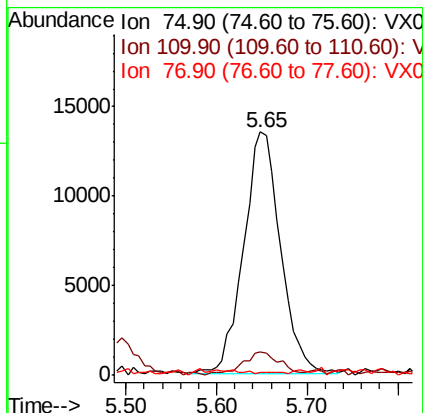
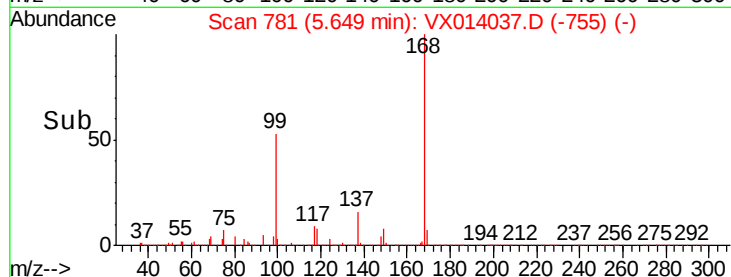
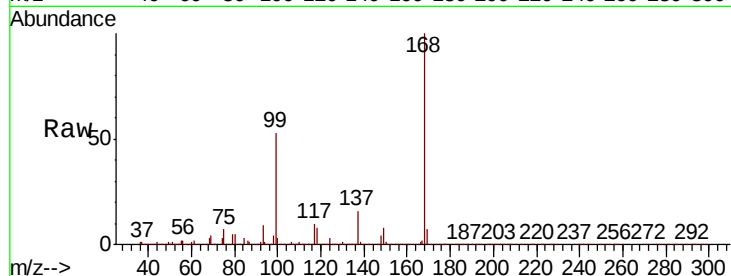
Tot Ion: 75 Resp: 37846

Ion Ratio Lower Upper

75 100

110 10.0 18.3 54.9#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.743 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

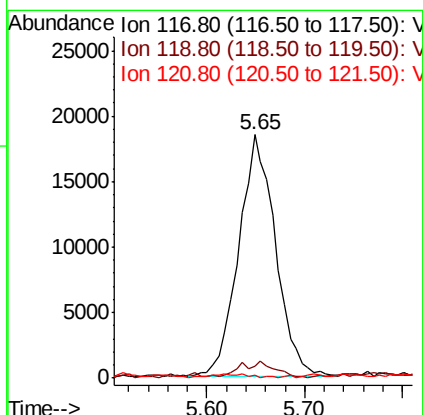
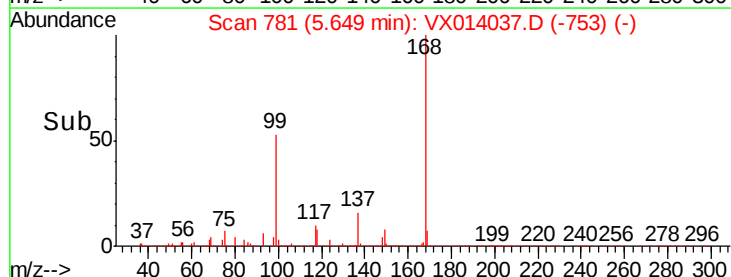
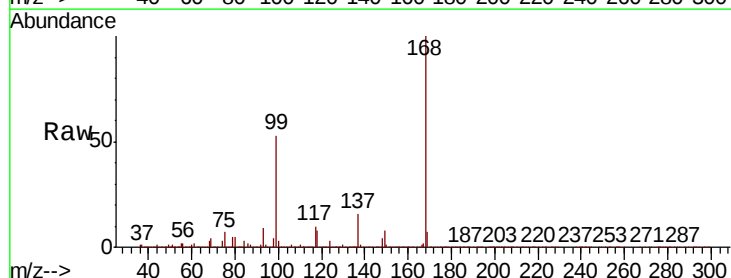
Tgt Ion: 117 Resp: 48496

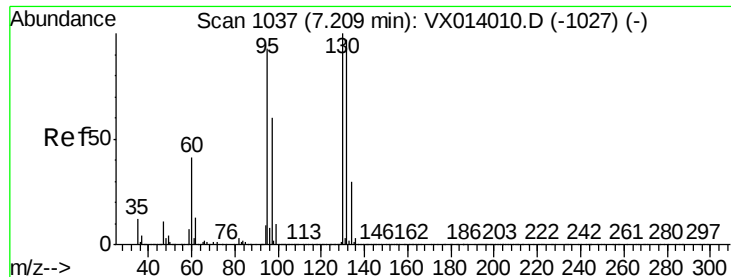
Ion Ratio Lower Upper

117 100

119 3.8 76.2 114.4#

121 0.9 23.6 35.4#





#44

Trichloroethene

Concen: 110.834 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

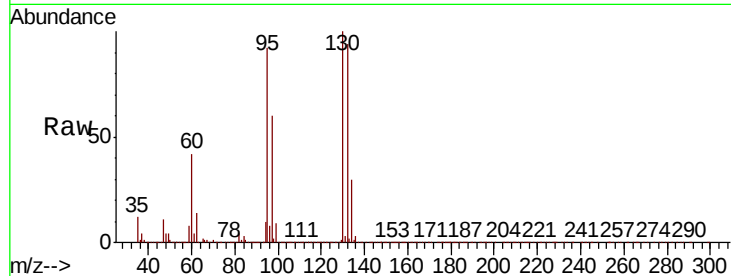
DUP06-20191209

Tot Ion:130 Resp: 743584

Ion Ratio Lower Upper

130 100

95 92.2 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

400000

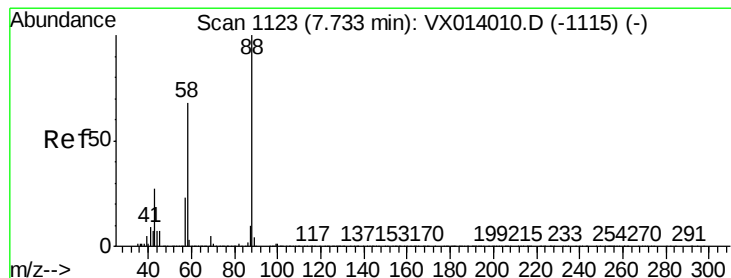
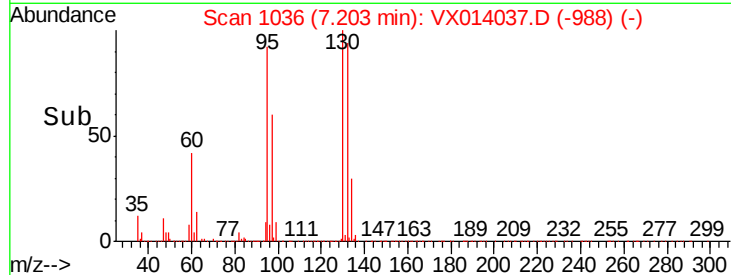
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 14.684 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

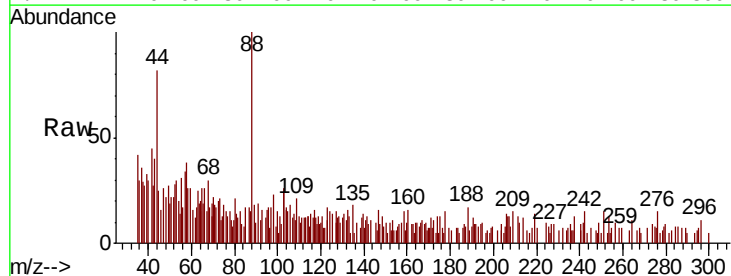
Tgt Ion: 88 Resp: 2111

Ion Ratio Lower Upper

88 100

43 41.4 26.5 39.7#

58 96.2 56.8 85.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

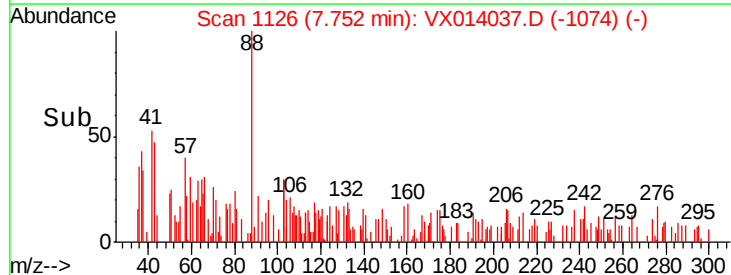
7.75

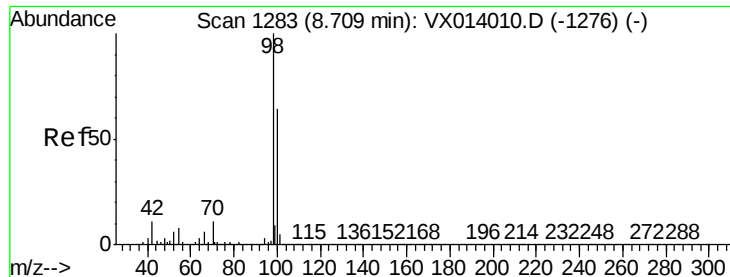
1000

500

0

Time-->





#50

Toluene-d8

Concen: 50.376 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

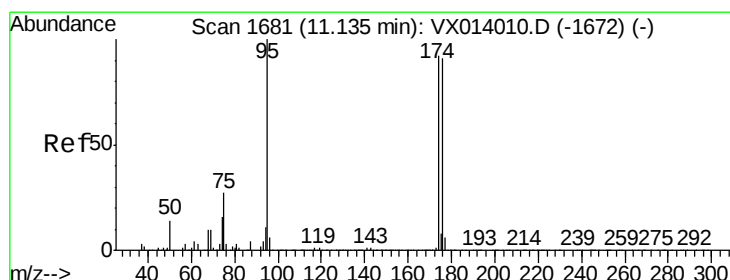
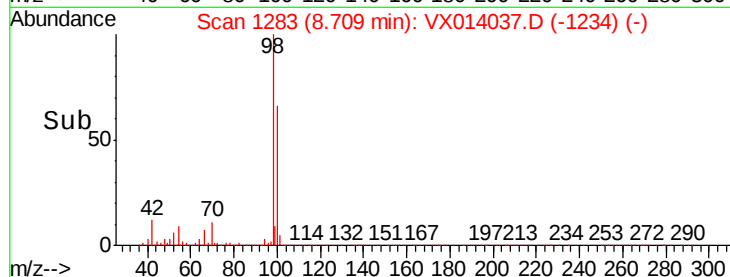
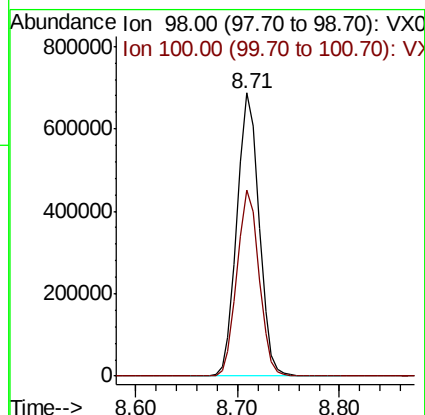
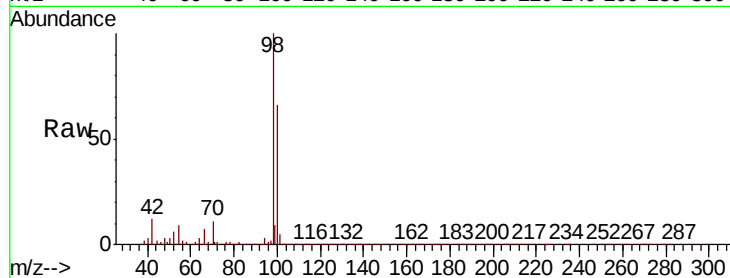
DUP06-20191209

Tot Ion: 98 Resp: 1025738

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.361 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

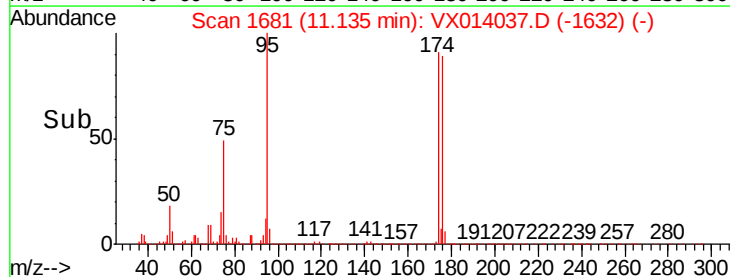
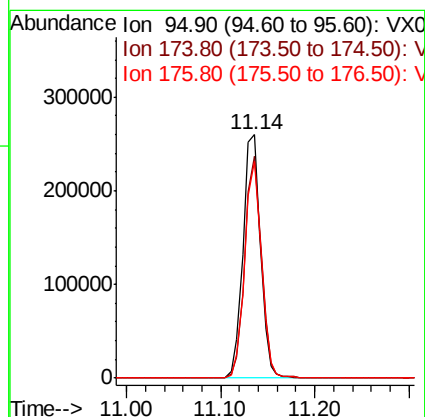
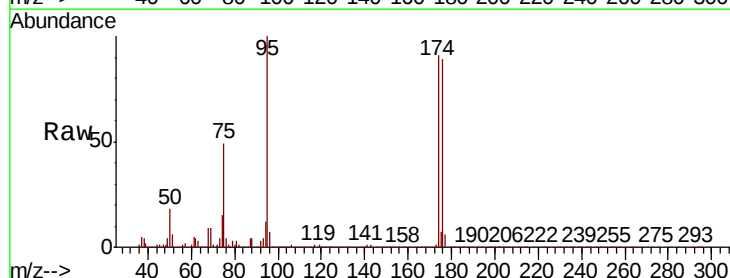
Tgt Ion: 95 Resp: 337628

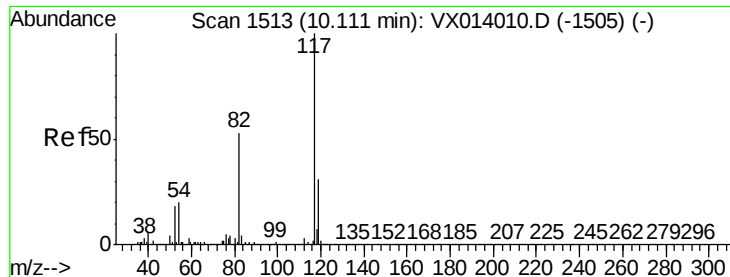
Ion Ratio Lower Upper

95 100

174 87.0 0.0 175.8

176 85.8 0.0 173.0

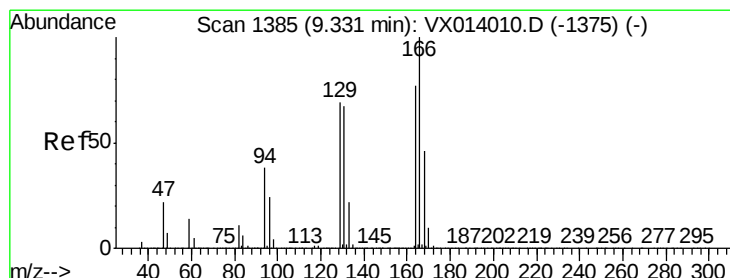
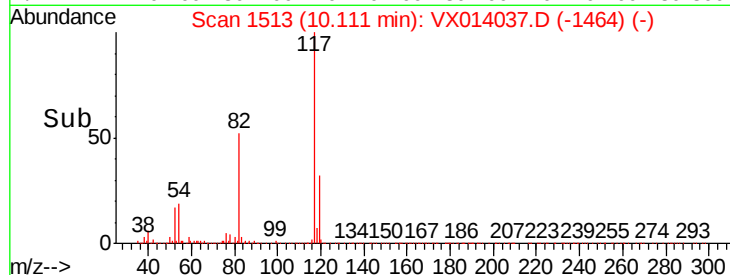
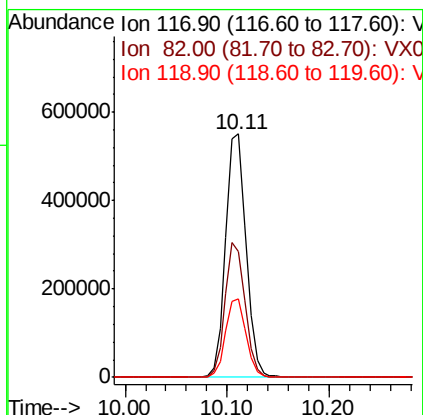
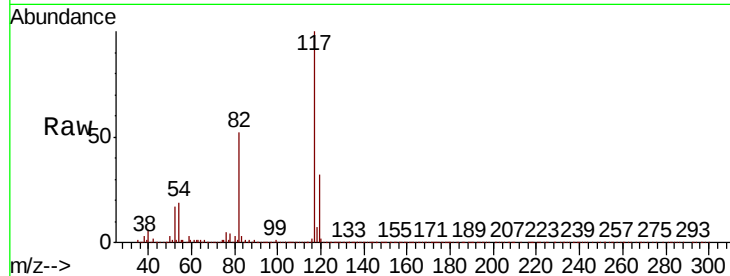




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

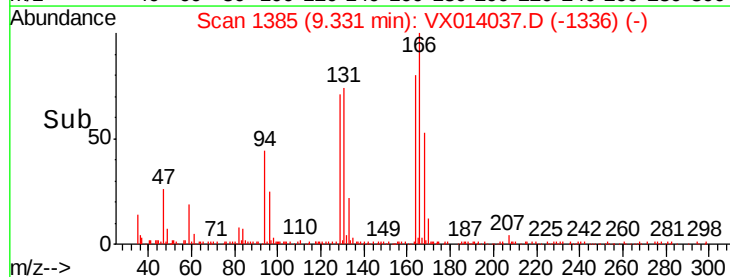
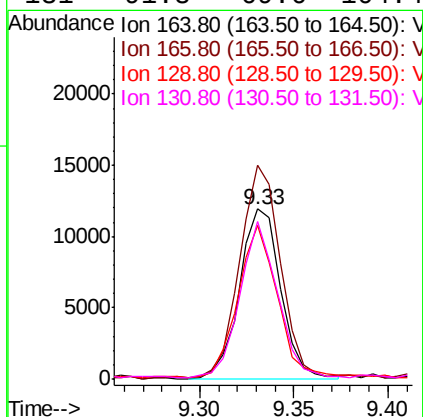
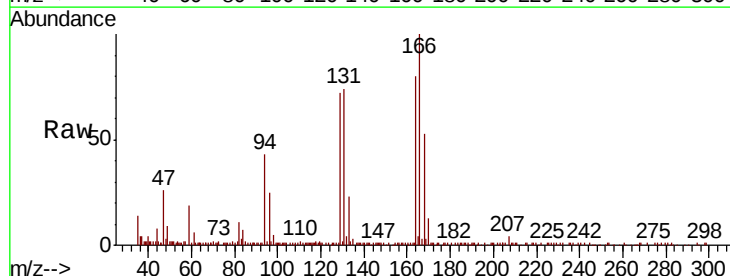
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20191209

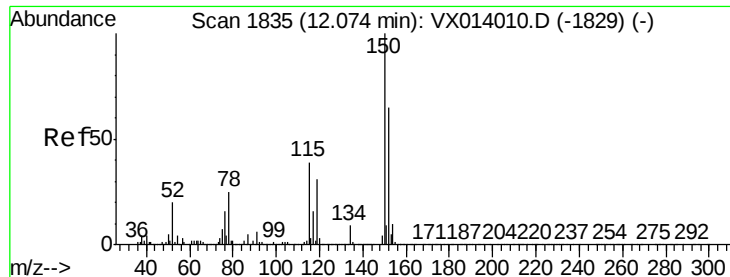
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.2	63.4
119	32.2	25.1	37.7



#64
Tetrachloroethene
Concen: 2.669 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX014037.D
Acq: 16 Dec 2019 16:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.1	104.0	156.0
129	89.5	72.2	108.4
131	91.8	69.6	104.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20191209

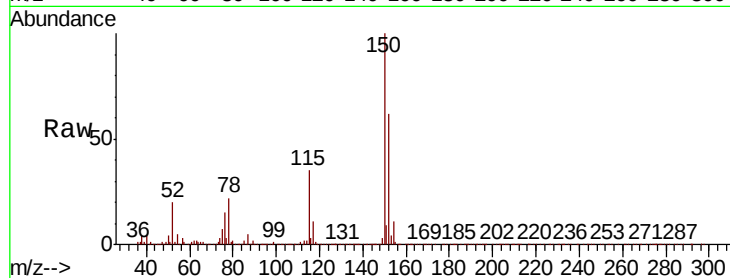
Tot Ion:152 Resp: 321161

Ion Ratio Lower Upper

152 100

115 55.9 38.3 114.9

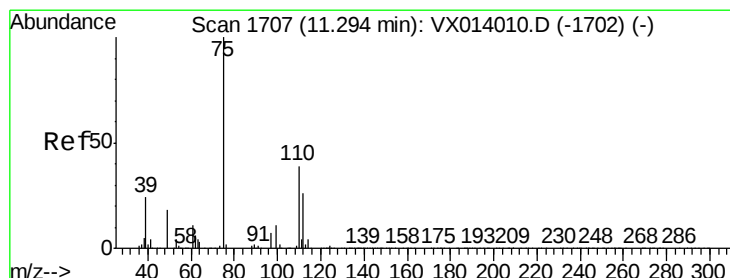
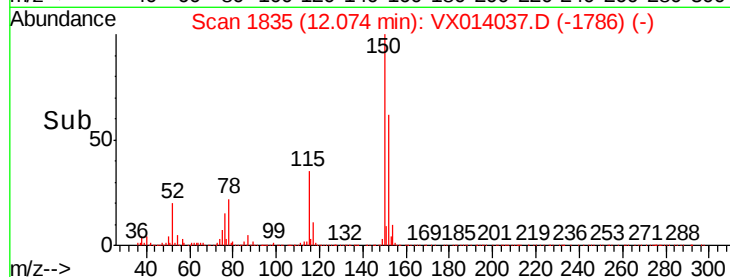
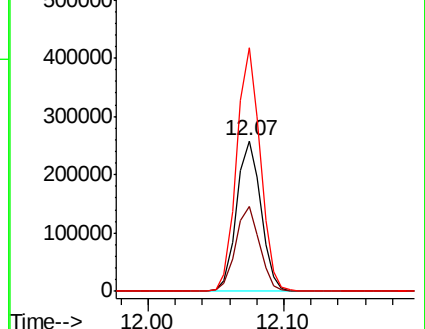
150 157.5 0.0 345.4



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: 23.650 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX014037.D

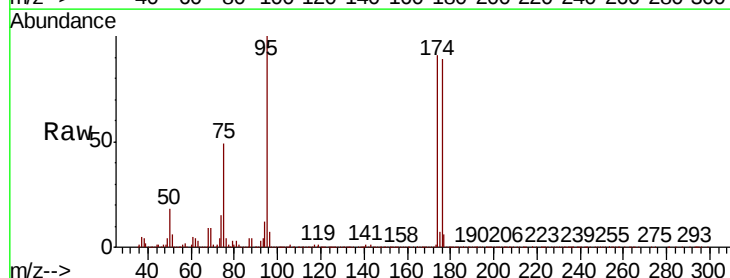
Acq: 16 Dec 2019 16:00

Tgt Ion: 75 Resp: 164898

Ion Ratio Lower Upper

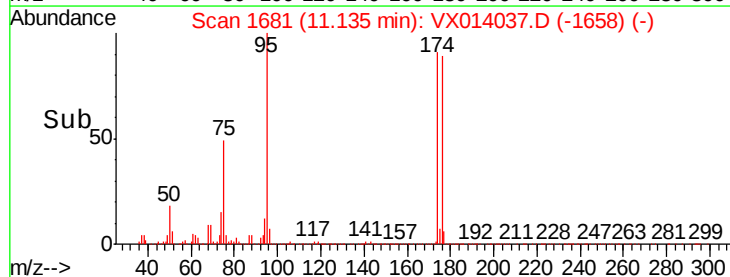
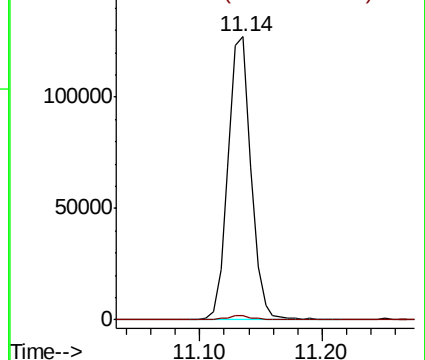
75 100

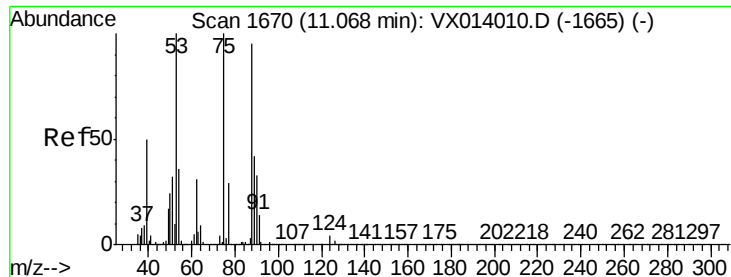
77 1.6 19.3 57.8#



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: 66.753 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX014037.D

Acq: 16 Dec 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20191209

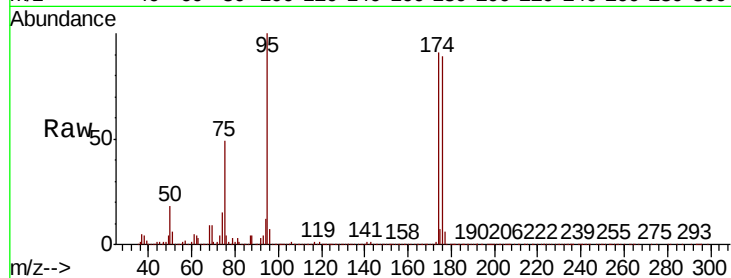
Tot Ion: 75 Resp: 164898

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.2 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

