

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013832.D
 Acq On : 07 Dec 2019 04:41
 Operator : JC/SP
 Sample : K6185-17 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20191205DL

Quant Time: Dec 07 05:45:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	615202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	934493	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	812824	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	353949	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	340587	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
35) Dibromofluoromethane	5.49	113	277887	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	8.71	98	1096253	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
62) 4-Bromofluorobenzene	11.14	95	359384	44.28	ug/l	0.00
Spiked Amount			Recovery	=	88.56%	

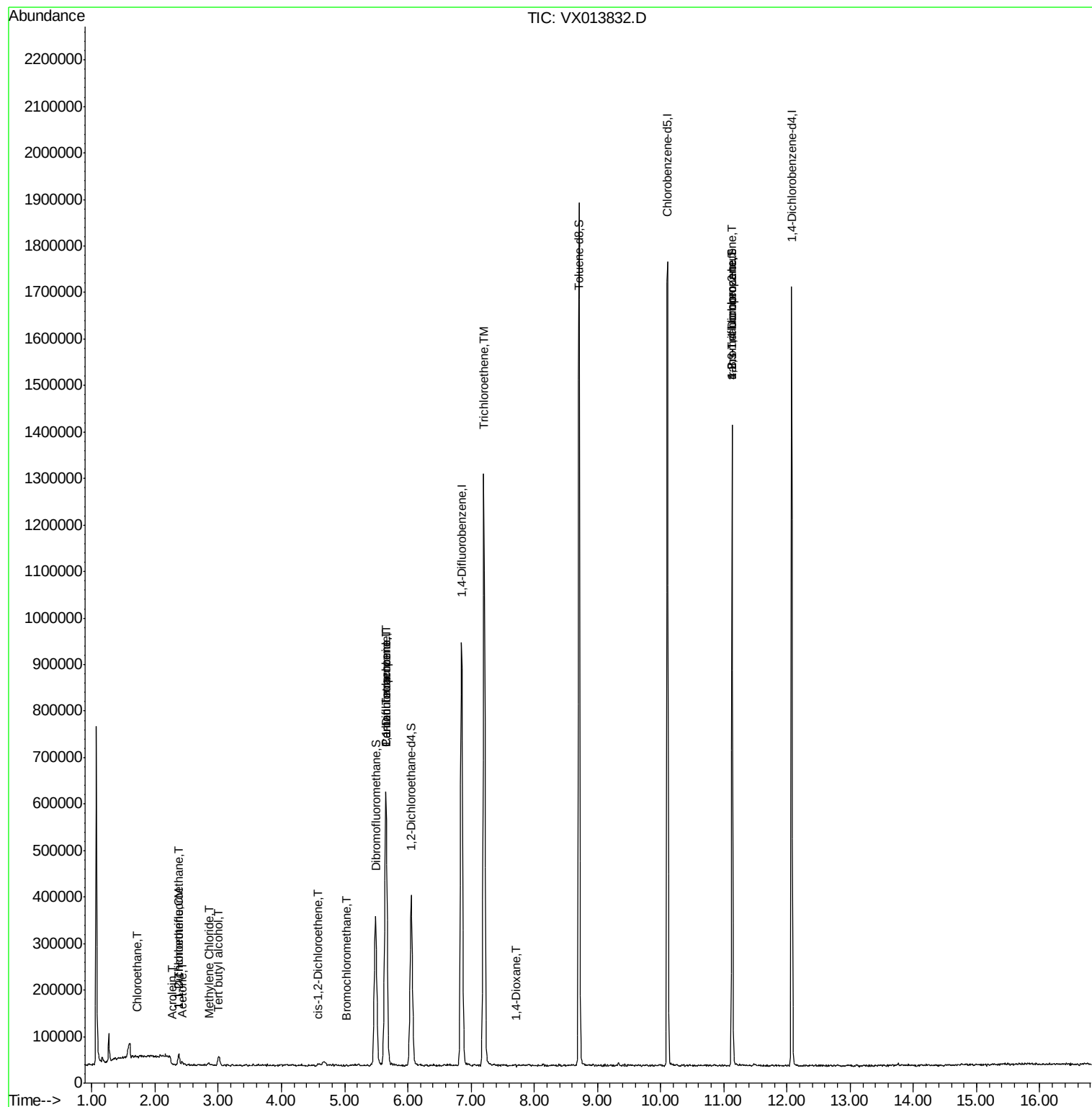
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	1223	0.249	ug/l #	65
9) 1,1,2-Trichlorotrifluoroet	2.37	101	9159	1.562	ug/l	97
11) Tert butyl alcohol	3.00	59	14573	8.268	ug/l #	81
12) 1,1-Dichloroethene	2.37	96	2264	0.387	ug/l #	63
13) Acrolein	2.28	56	597	6.498	ug/l #	15
16) Acetone	2.44	43	7709	2.187	ug/l #	78
20) Methylene Chloride	2.85	84	2384	0.352	ug/l #	74
27) cis-1,2-Dichloroethene	4.59	96	2404	0.328	ug/l	44
28) Bromochloromethane	5.02	49	1018	0.218	ug/l #	27
36) 1,1-Dichloropropene	5.65	75	40533	4.778	ug/l #	53
38) Carbon Tetrachloride	5.65	117	52722	6.740	ug/l #	17
44) Trichloroethene	7.21	130	514947	72.624	ug/l	94
49) 1,4-Dioxane	7.72	88	341	2.001	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	176116	22.123	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	176116	60.523	ug/l #	11

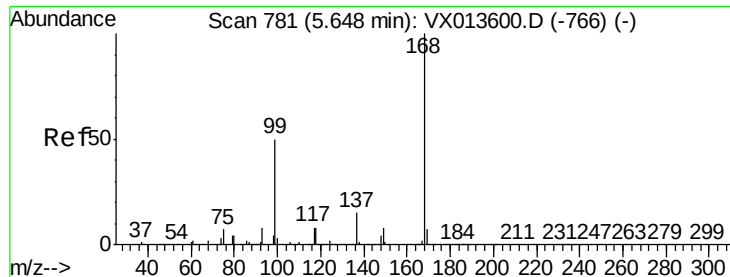
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

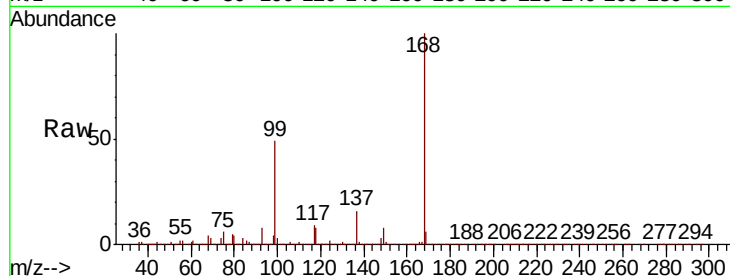
RE132D7-20191205DL

Tot Ion:168 Resp: 615202

Ion Ratio Lower Upper

168 100

99 49.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

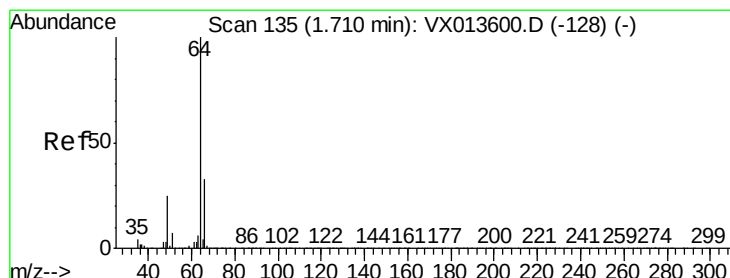
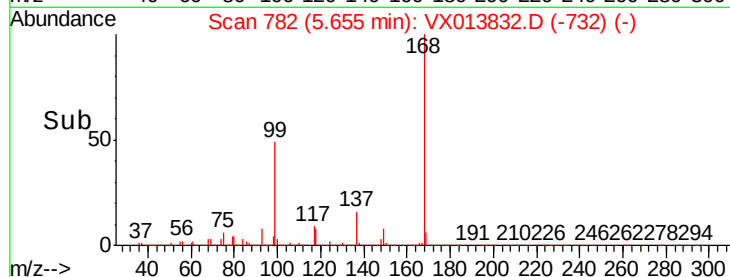
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.249 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX013832.D

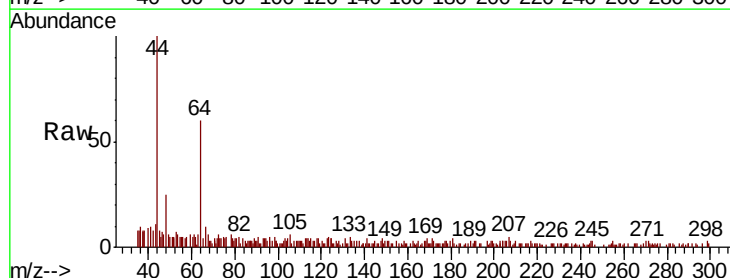
Acq: 07 Dec 2019 04:41

Tgt Ion: 64 Resp: 1223

Ion Ratio Lower Upper

64 100

66 13.6 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

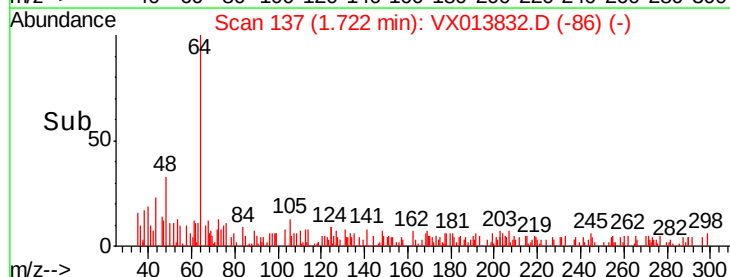
3000

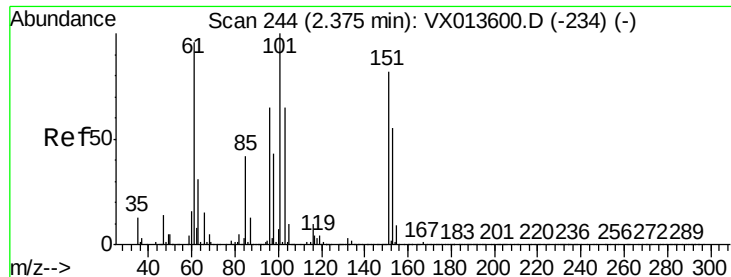
2000

1000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.562 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20191205DL

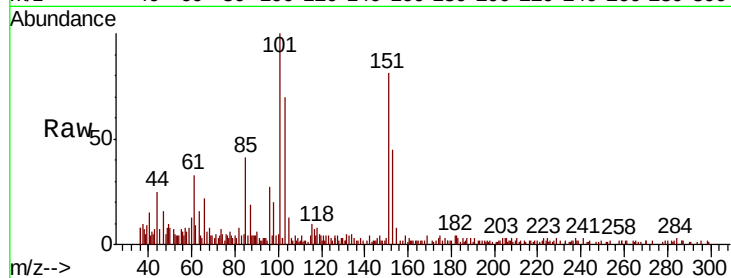
Tot Ion:101 Resp: 9159

Ion Ratio Lower Upper

101 100

85 44.2 33.9 50.9

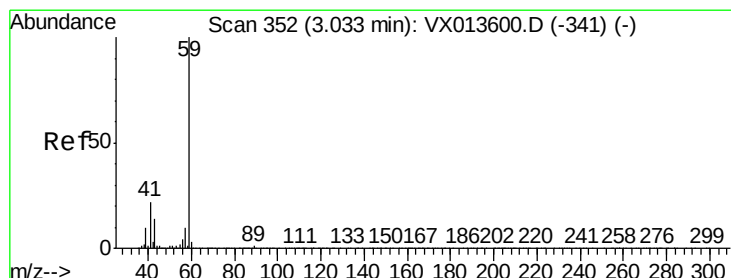
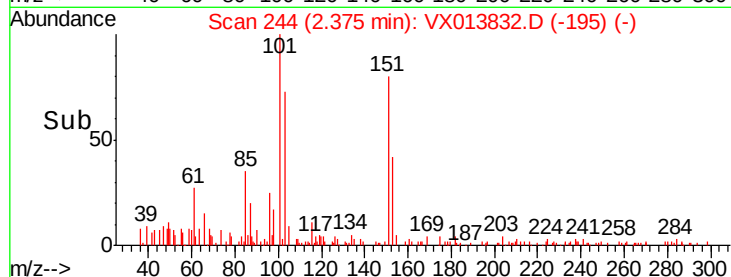
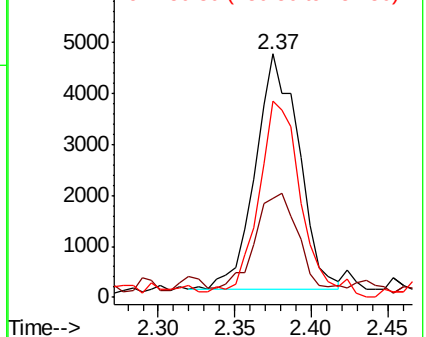
151 82.9 64.2 96.2



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



#11

Tert butyl alcohol

Concen: 8.268 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.03 min

Lab File: VX013832.D

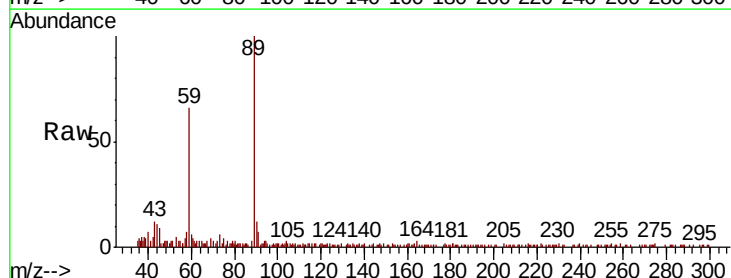
Acq: 07 Dec 2019 04:41

Tgt Ion: 59 Resp: 14573

Ion Ratio Lower Upper

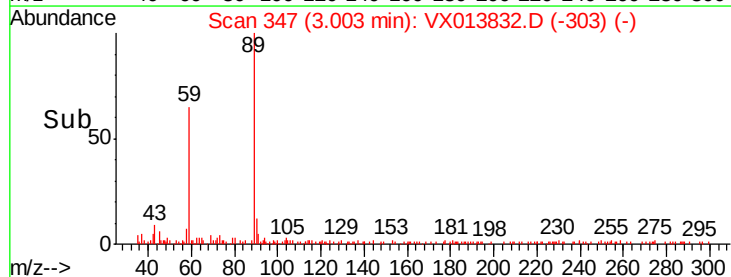
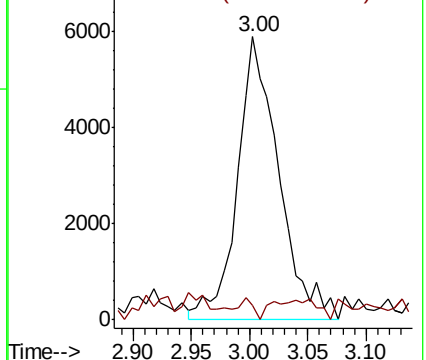
59 100

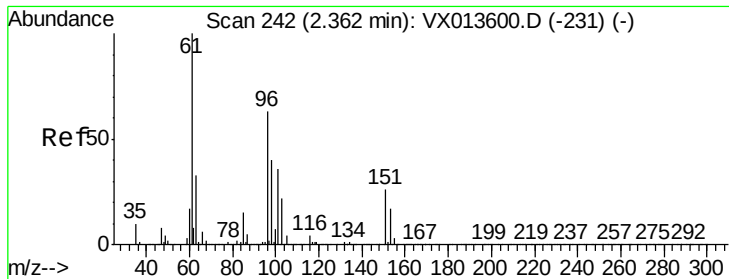
57 2.6 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.387 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20191205DL

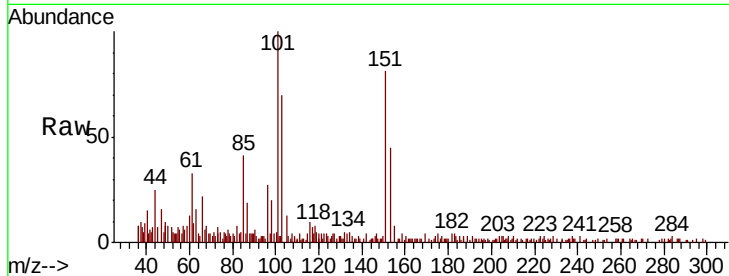
Tot Ion: 96 Resp: 2264

Ion Ratio Lower Upper

96 100

61 95.3 126.6 190.0#

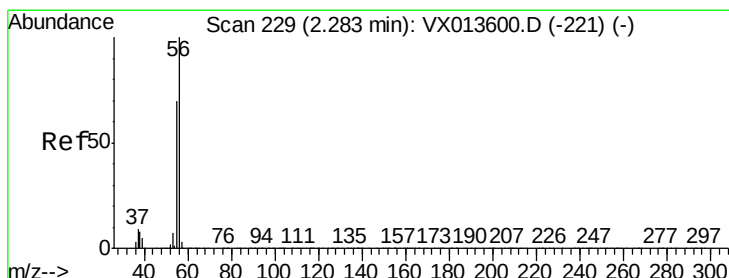
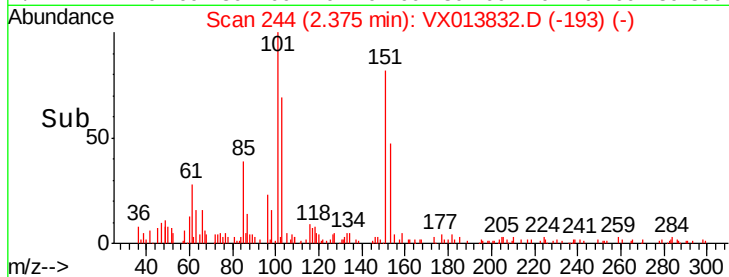
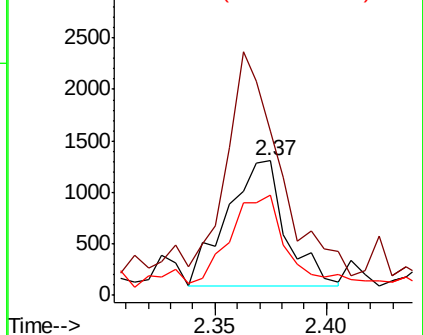
98 70.0 50.6 76.0



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: 6.498 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013832.D

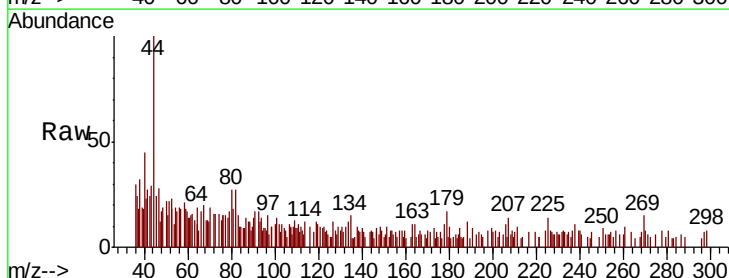
Acq: 07 Dec 2019 04:41

Tgt Ion: 56 Resp: 597

Ion Ratio Lower Upper

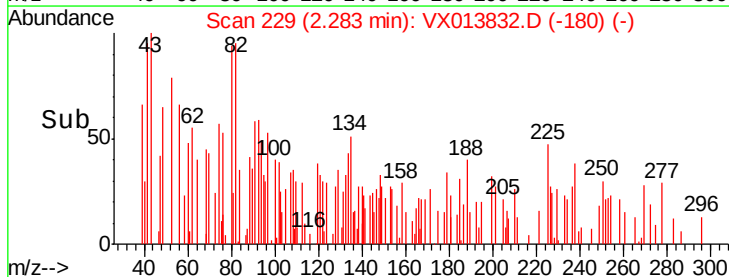
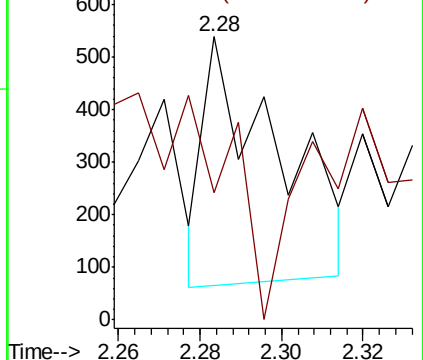
56 100

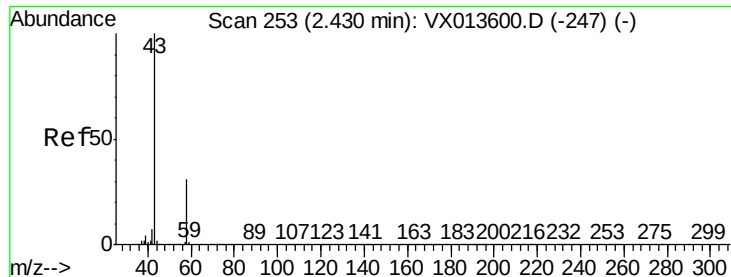
55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

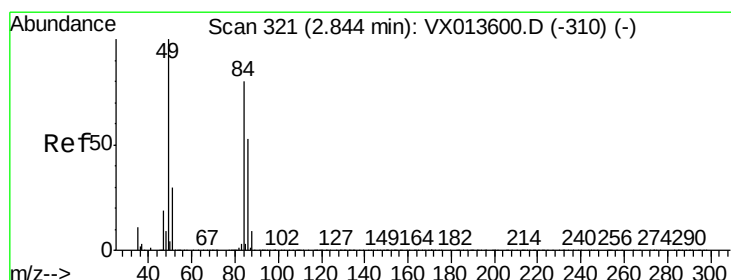
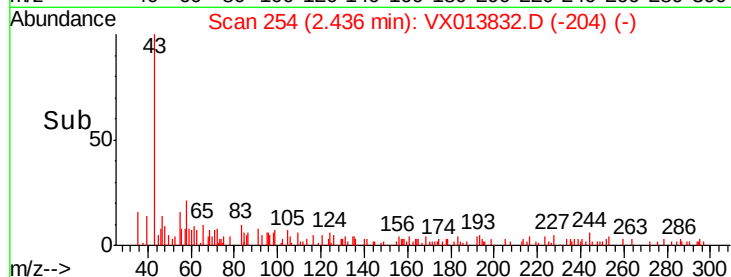
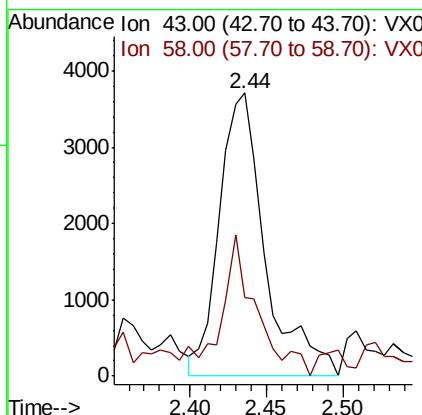
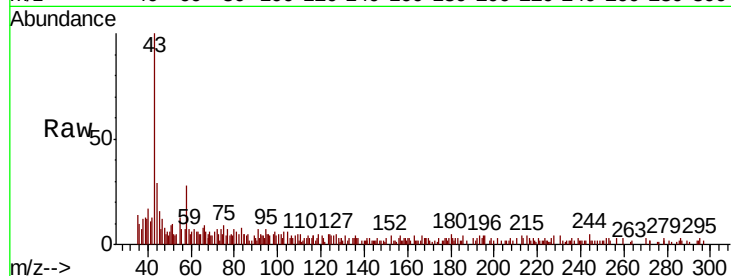




#16
Acetone
Concen: 2.187 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

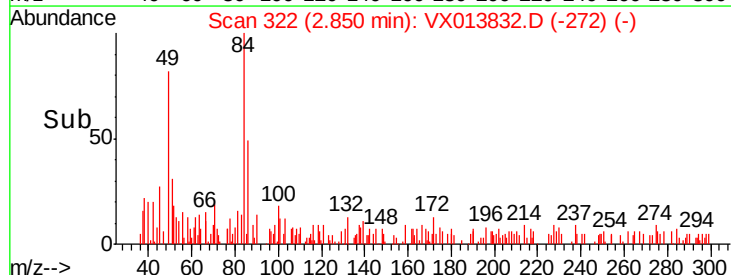
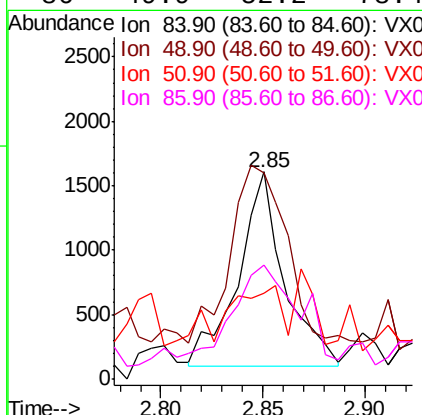
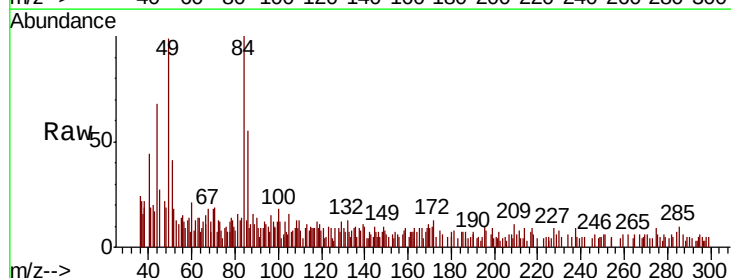
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20191205DL

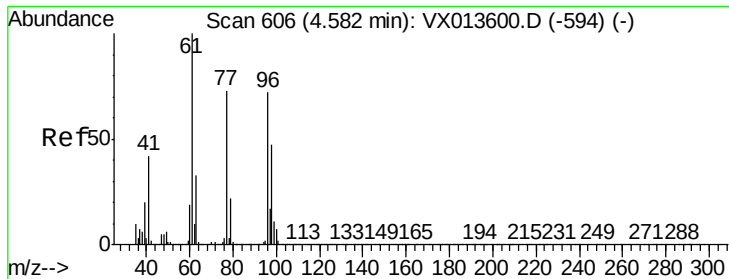
Tot Ion: 43 Resp: 7709
Ion Ratio Lower Upper
43 100
58 18.4 24.6 36.8#



#20
Methylene Chloride
Concen: 0.352 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

Tgt Ion: 84 Resp: 2384
Ion Ratio Lower Upper
84 100
49 88.8 99.7 149.5#
51 24.4 29.9 44.9#
86 49.9 52.2 78.4#



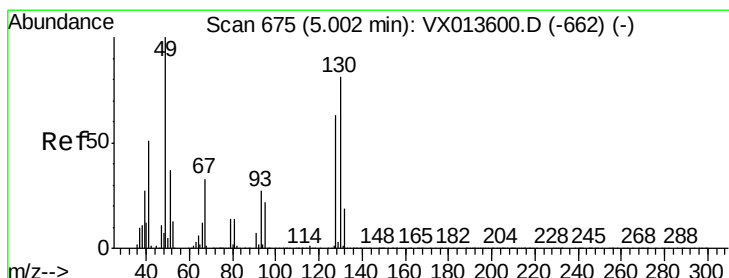
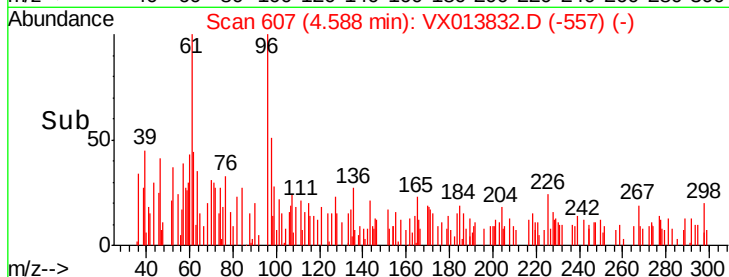
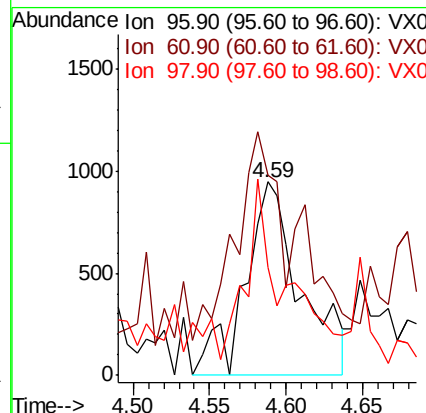
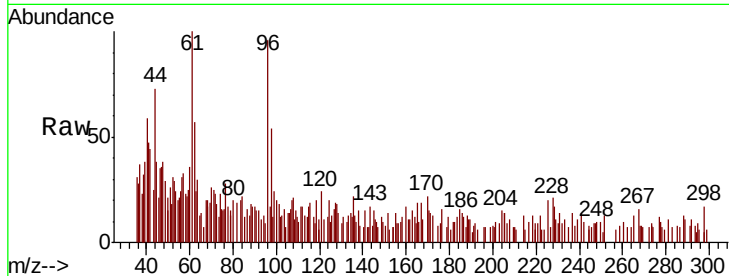


#27

cis-1,2-Dichloroethene
Concen: 0.328 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20191205DL

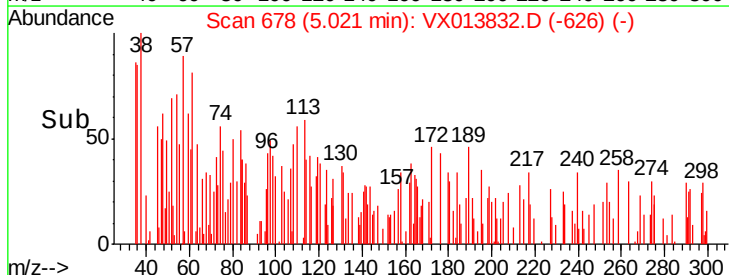
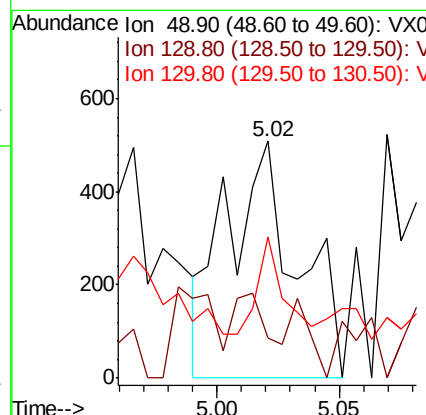
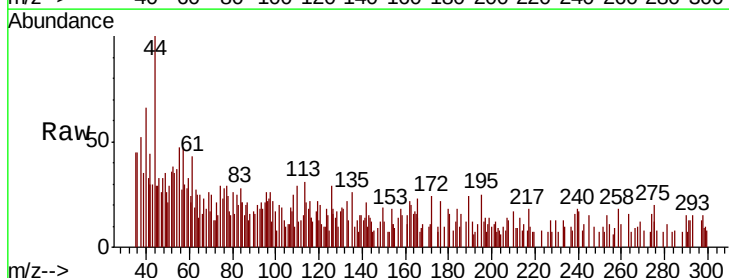
Tot Ion: 96 Resp: 2404
Ion Ratio Lower Upper
96 100
61 61.7 0.0 286.4
98 37.2 0.0 127.4

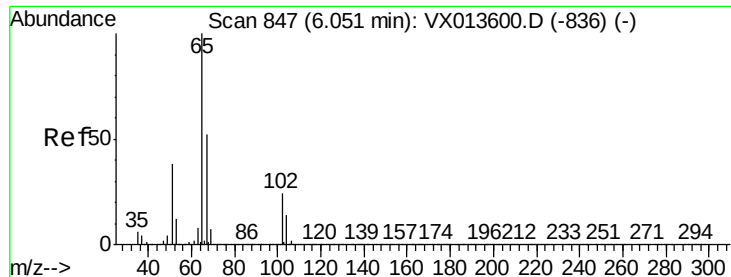


#28

Bromochloromethane
Concen: 0.218 ug/l
RT: 5.02 min Scan# 678
Delta R.T. 0.02 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

Tgt Ion: 49 Resp: 1018
Ion Ratio Lower Upper
49 100
129 10.1 0.0 5.0#
130 14.7 65.4 98.0#





#33

1,2-Dichloroethane-d4

Concen: 47.694 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

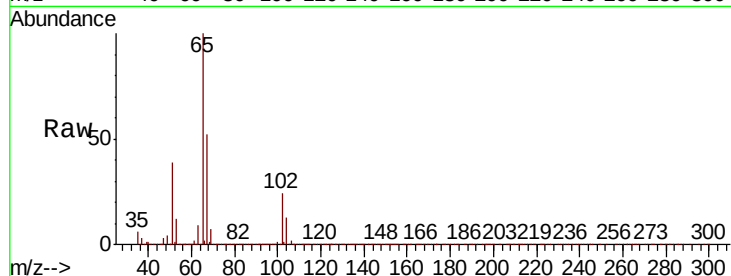
RE132D7-20191205DL

Tot Ion: 65 Resp: 340587

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

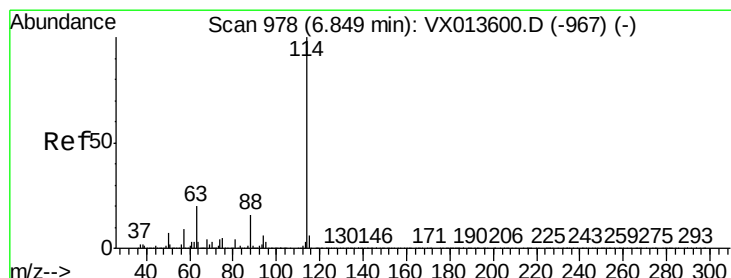
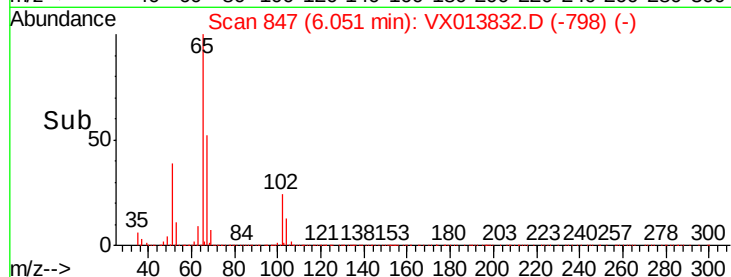
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

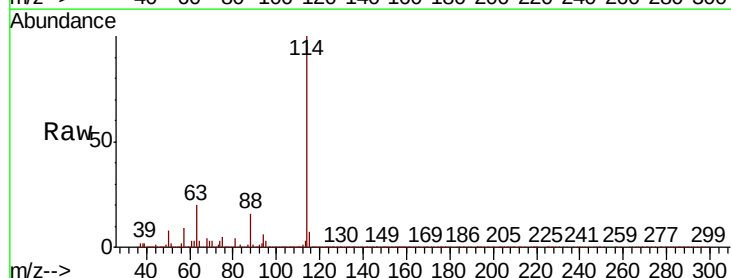
Tgt Ion: 114 Resp: 934493

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 15.7 0.0 31.4



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

6.85

500000

400000

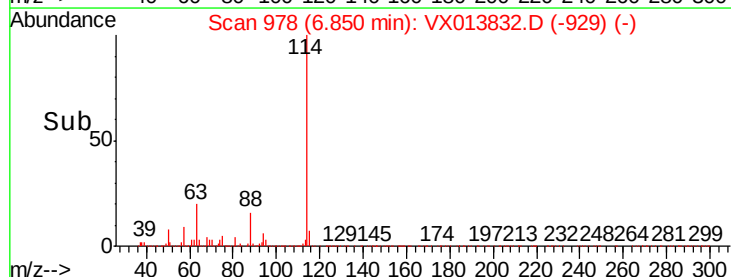
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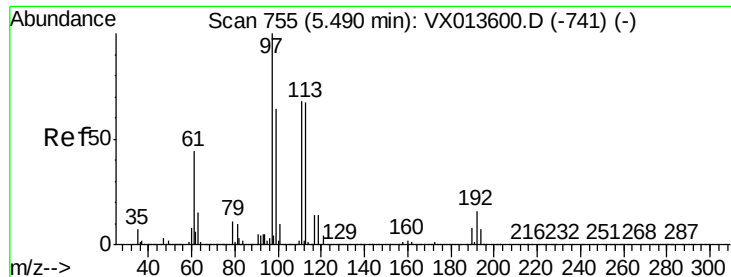
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.101 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20191205DL

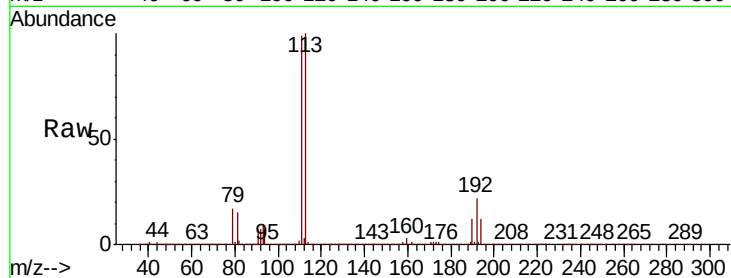
Tot Ion:113 Resp: 277887

Ion Ratio Lower Upper

113 100

111 101.1 83.6 125.4

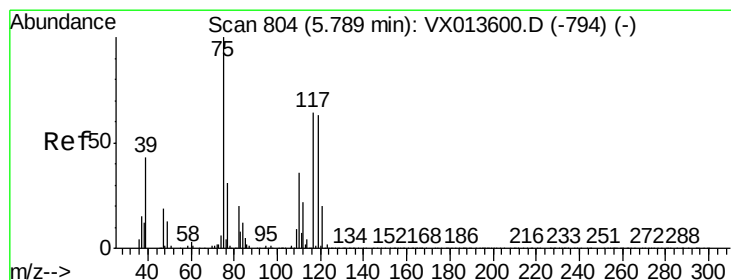
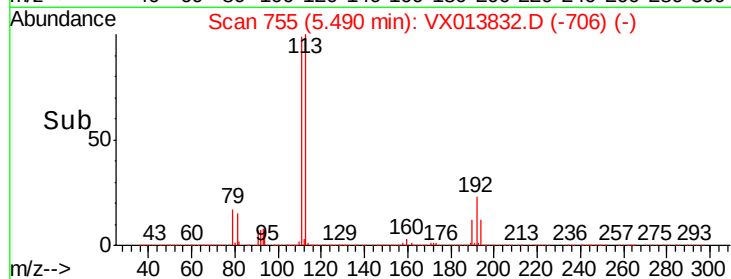
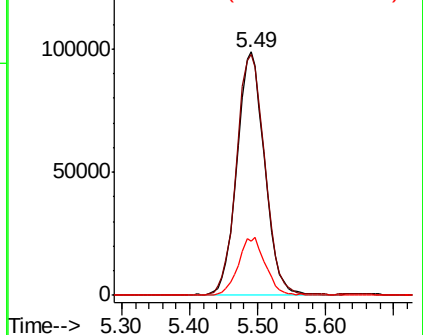
192 23.5 19.2 28.8



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: 4.778 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

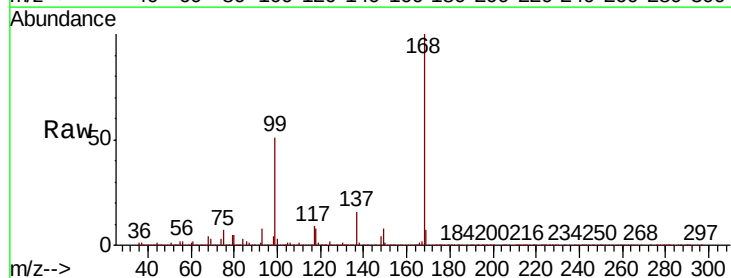
Tgt Ion: 75 Resp: 40533

Ion Ratio Lower Upper

75 100

110 11.5 18.1 54.1#

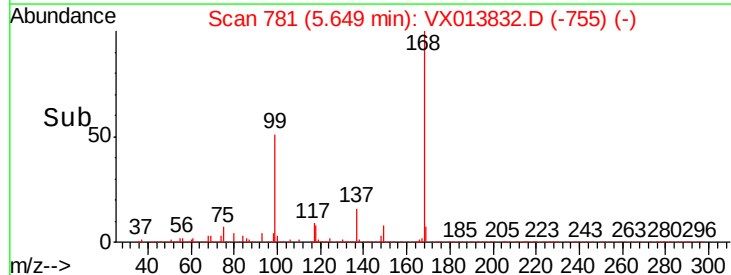
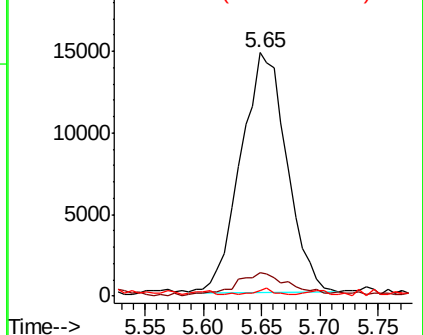
77 1.3 24.5 36.7#

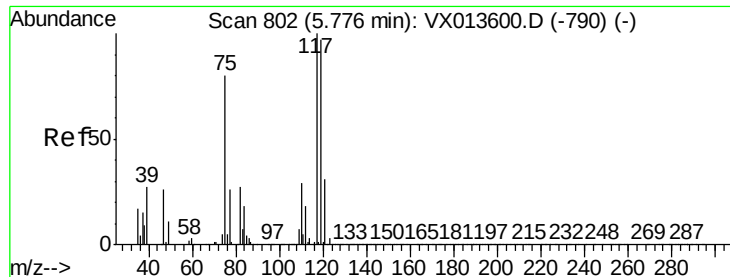


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

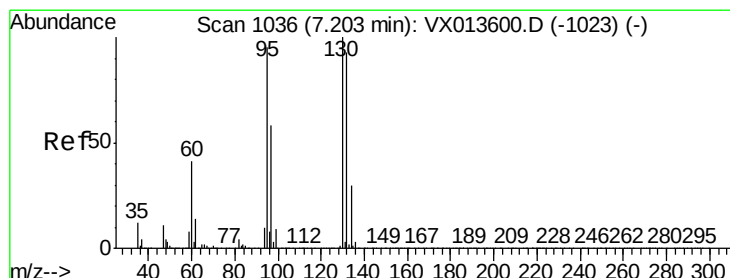
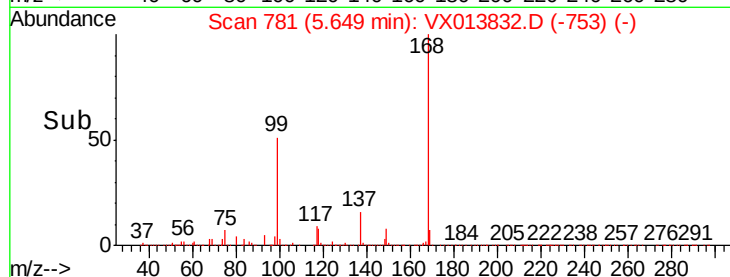
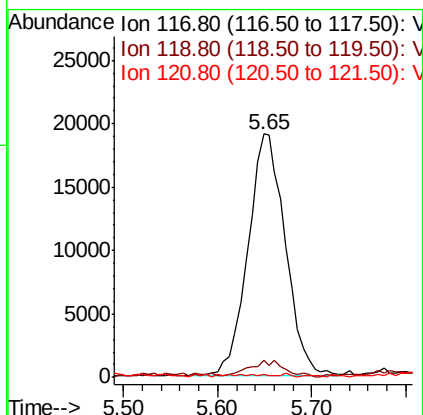
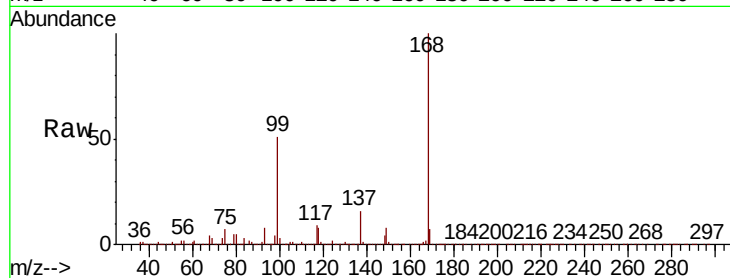




#38
Carbon Tetrachloride
Concen: 6.740 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

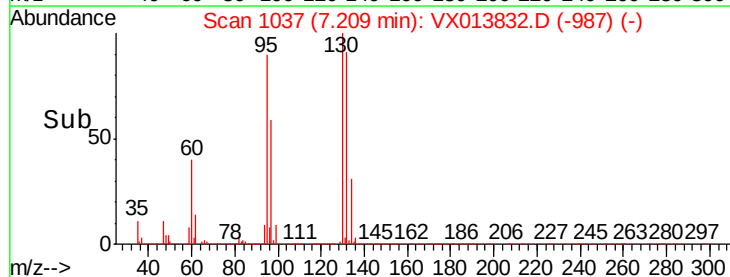
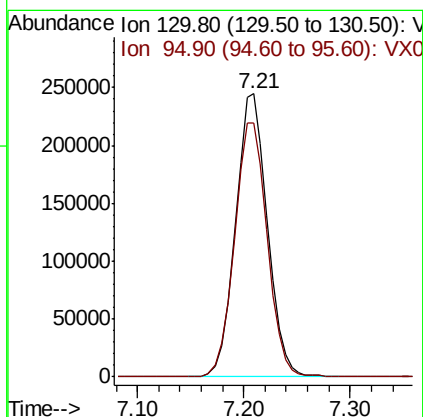
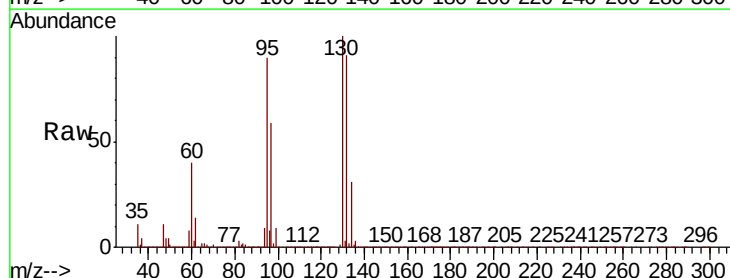
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20191205DL

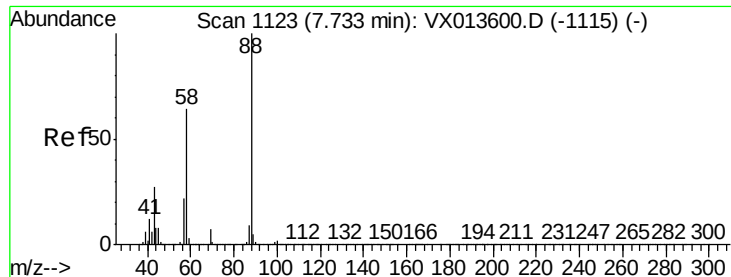
Tot Ion:117 Resp: 52722
Ion Ratio Lower Upper
117 100
119 6.6 77.5 116.3#
121 0.8 25.0 37.6#



#44
Trichloroethene
Concen: 72.624 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

Tgt Ion:130 Resp: 514947
Ion Ratio Lower Upper
130 100
95 89.8 0.0 190.8





#49

1,4-Dioxane

Concen: 2.001 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20191205DL

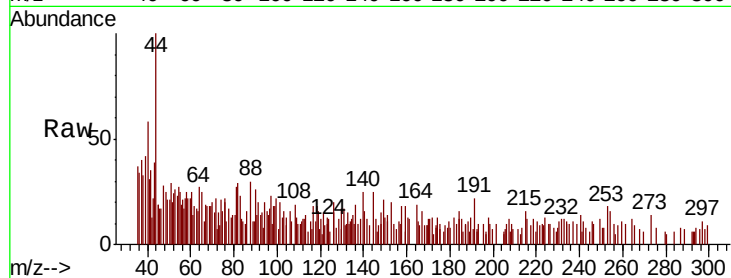
Tot Ion: 88 Resp: 341

Ion Ratio Lower Upper

88 100

43 254.0 25.8 38.6#

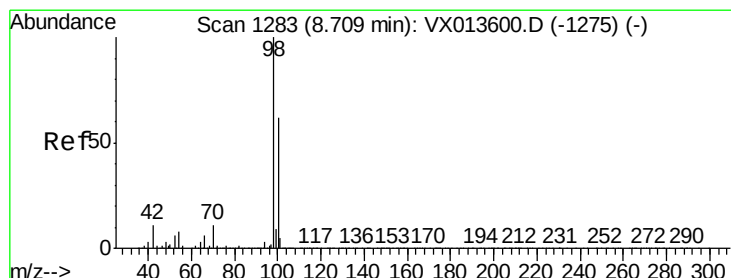
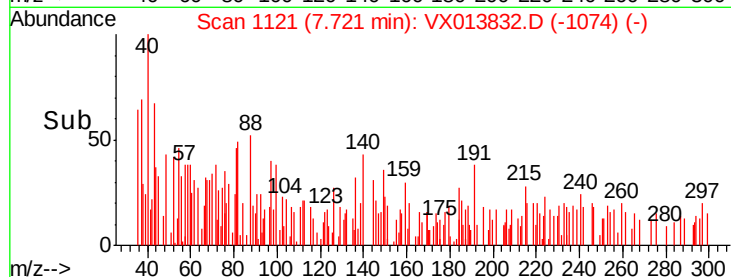
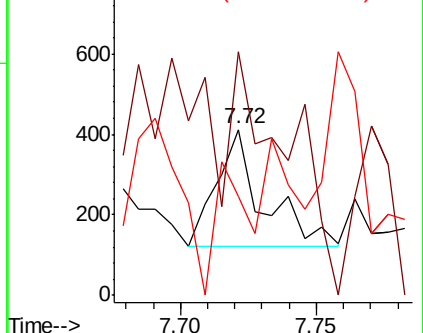
58 78.6 54.6 82.0



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



#50

Toluene-d8

Concen: 48.704 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013832.D

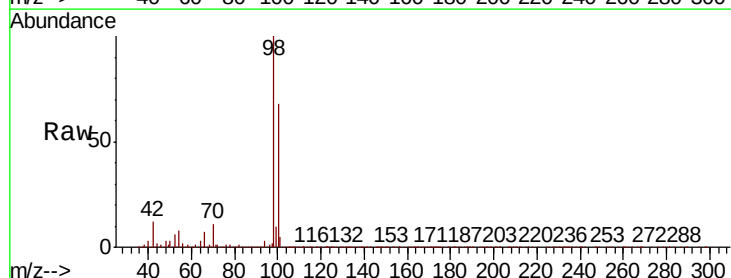
Acq: 07 Dec 2019 04:41

Tgt Ion: 98 Resp: 1096253

Ion Ratio Lower Upper

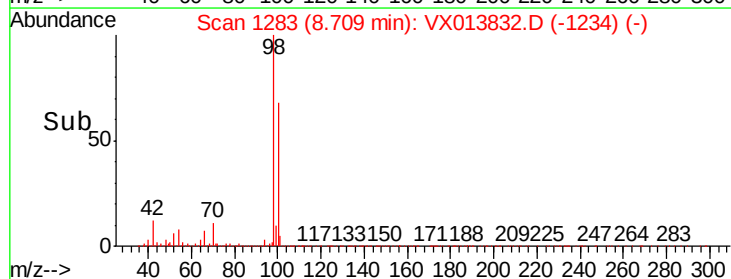
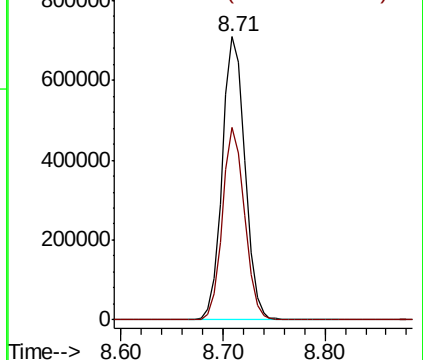
98 100

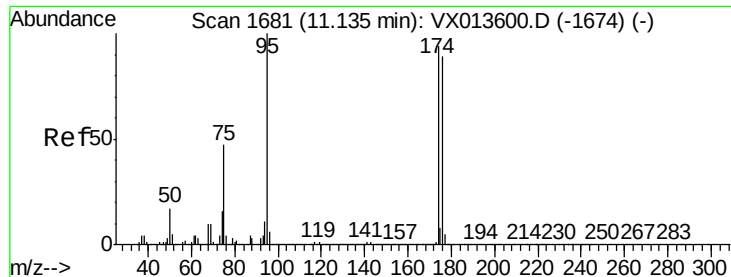
100 66.3 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

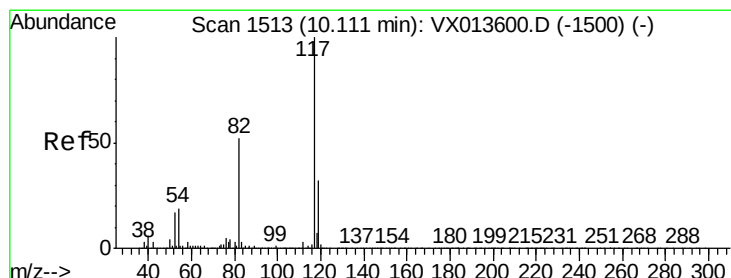
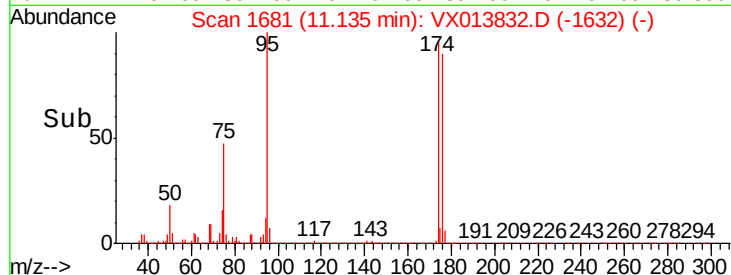
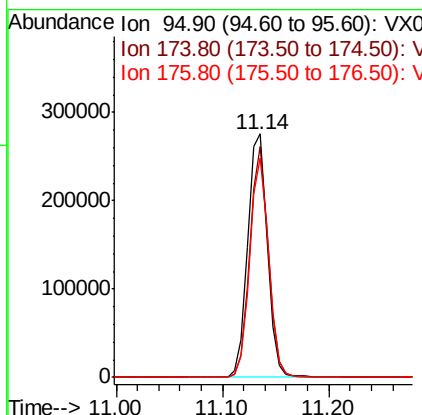
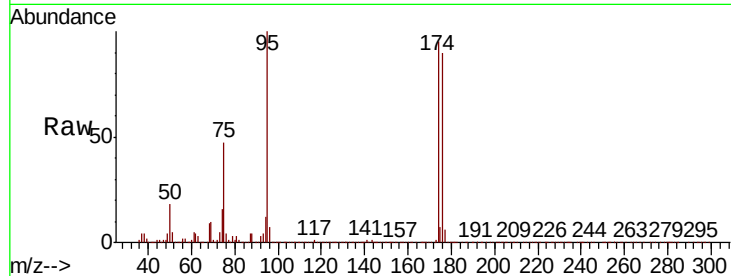




#62
4-Bromofluorobenzene
Concen: 44.278 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

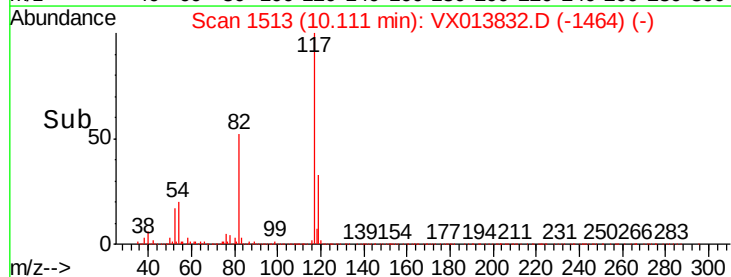
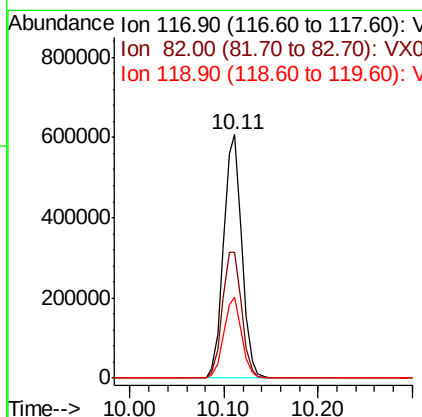
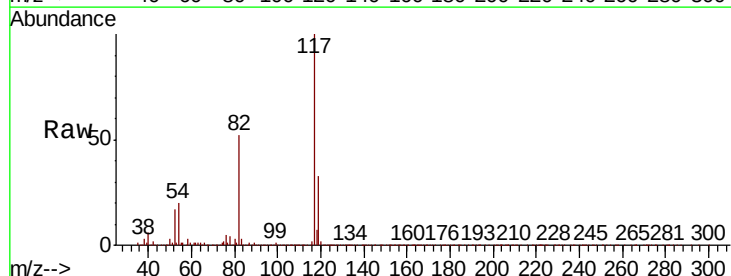
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20191205DL

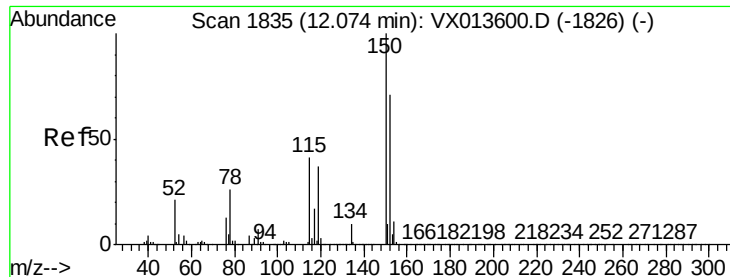
Tot Ion: 95 Resp: 359384
Ion Ratio Lower Upper
95 100
174 89.7 0.0 180.0
176 86.8 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013832.D
Acq: 07 Dec 2019 04:41

Tgt Ion: 117 Resp: 812824
Ion Ratio Lower Upper
117 100
82 51.5 41.8 62.8
119 33.0 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20191205DL

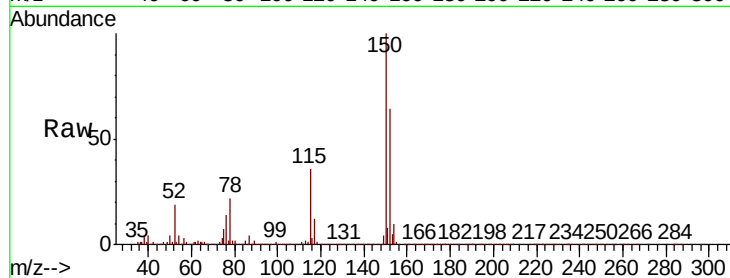
Tot Ion:152 Resp: 353949

Ion Ratio Lower Upper

152 100

115 55.6 38.4 115.1

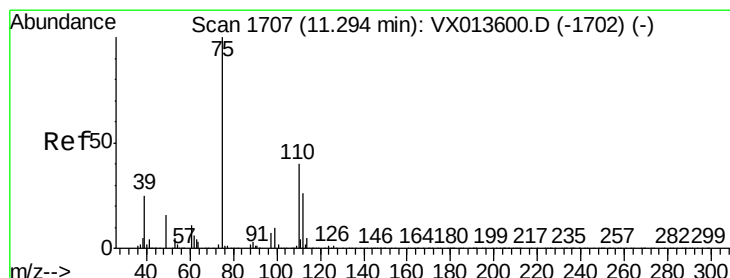
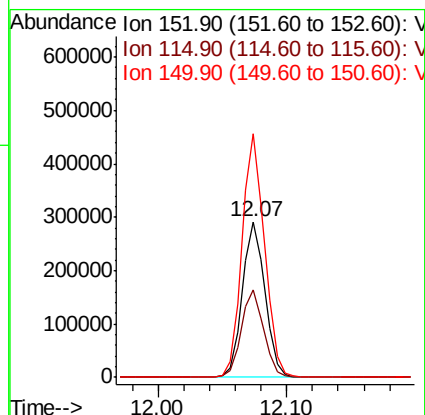
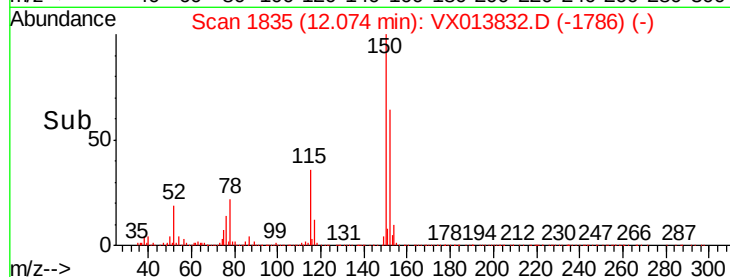
150 155.6 0.0 346.8



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: 22.123 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013832.D

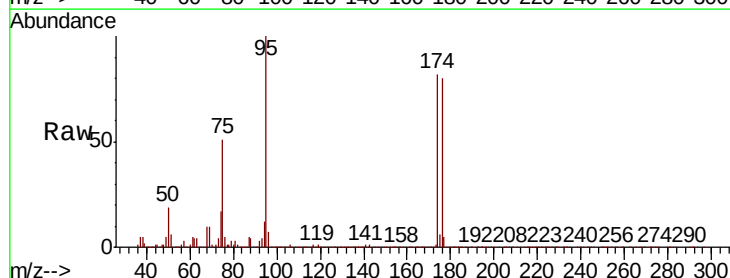
Acq: 07 Dec 2019 04:41

Tgt Ion: 75 Resp: 176116

Ion Ratio Lower Upper

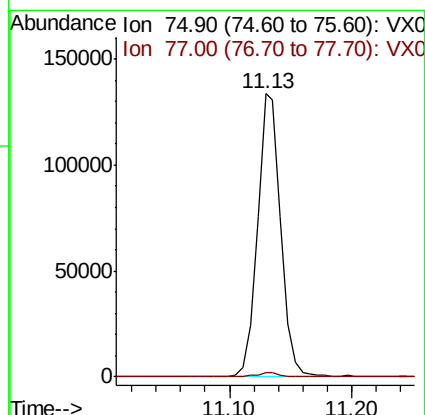
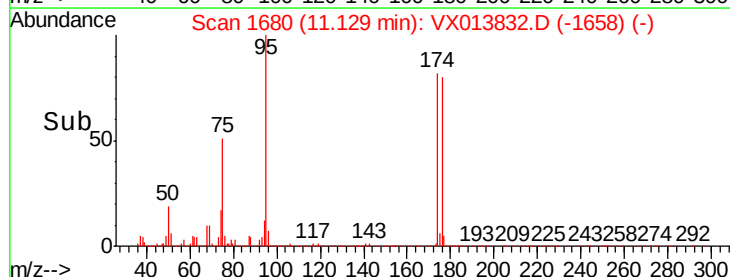
75 100

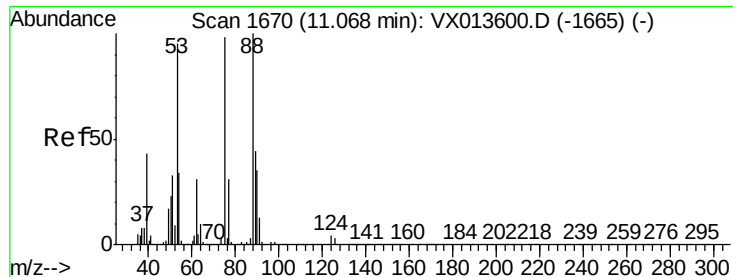
77 1.7 19.1 57.5#



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: 60.523 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013832.D

Acq: 07 Dec 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20191205DL

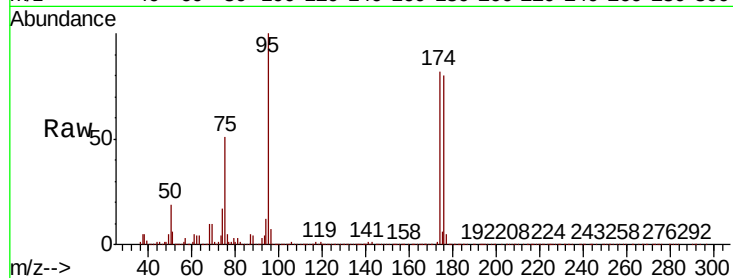
Tot Ion: 75 Resp: 176116

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.2#

89 0.2 35.4 53.2#



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

