

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092319\
 Data File : VX012616.D
 Acq On : 23 Sep 2019 19:51
 Operator : JC/SP
 Sample : K4978-02DL 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2-0161DL

Quant Time: Sep 24 01:54:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	169086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	291836	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	248670	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	93875	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	121721	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
35) Dibromofluoromethane	5.49	113	87105	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
50) Toluene-d8	8.71	98	344067	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	11.14	95	120254	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	

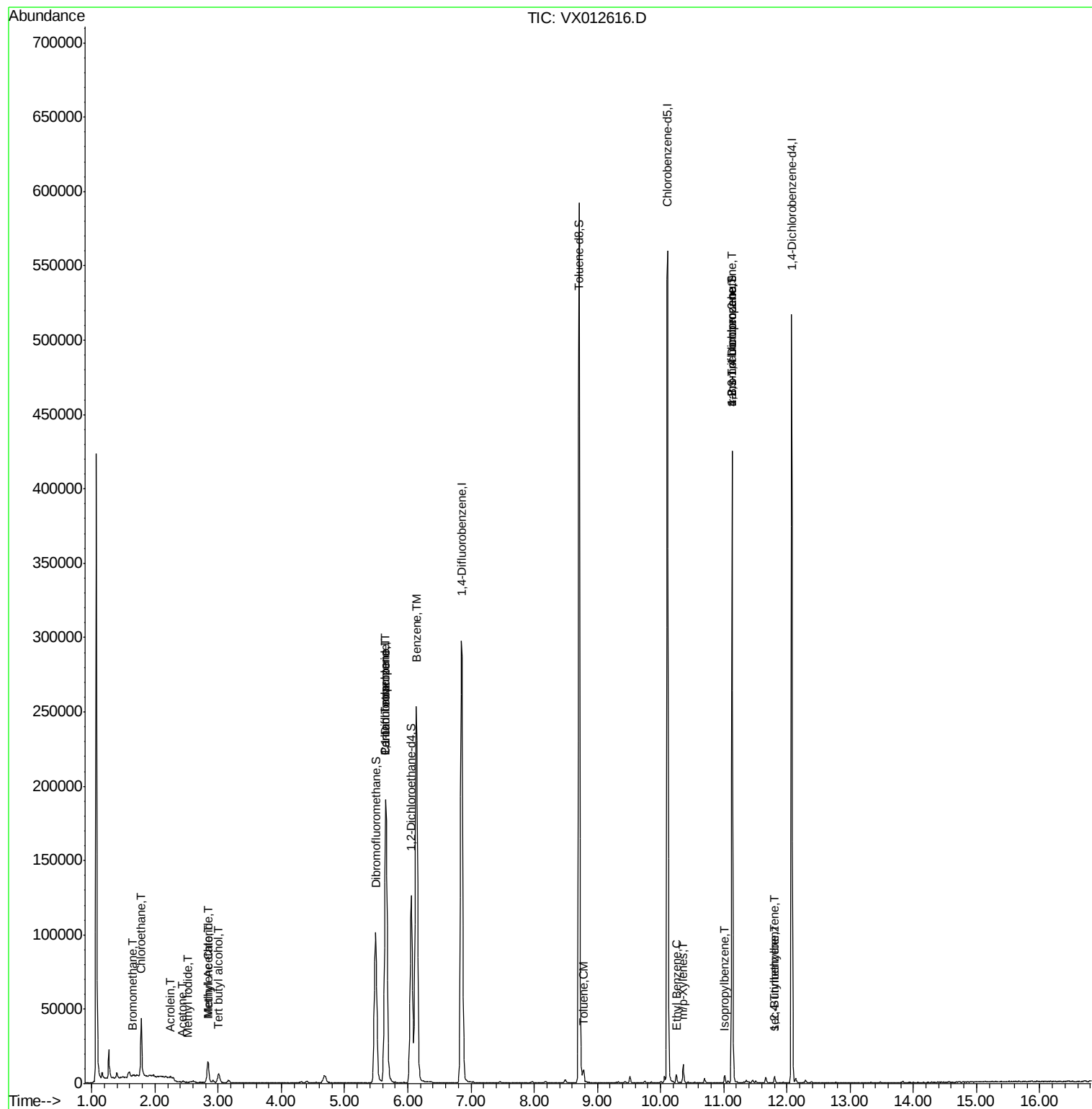
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	298	0.349	ug/l	96
6) Chloroethane	1.78	64	435	0.297	ug/l #	81
10) Methyl Iodide	2.51	142	151	5.023	ug/l #	35
11) Tert butyl alcohol	3.01	59	4169	6.778	ug/l #	77
13) Acrolein	2.25	56	152	10.658	ug/l #	1
16) Acetone	2.44	43	718	0.551	ug/l #	86
18) Methyl Acetate	2.84	43	9724	3.166	ug/l #	54
20) Methylene Chloride	2.85	84	802	0.364	ug/l #	75
36) 1,1-Dichloropropene	5.65	75	14700	5.226	ug/l #	51
38) Carbon Tetrachloride	5.65	117	19318	6.760	ug/l #	17
40) Benzene	6.14	78	302192	36.512	ug/l	99
52) Toluene	8.78	92	2935	0.564	ug/l	94
67) Ethyl Benzene	10.25	91	3338	0.351	ug/l	98
68) m/p-Xylenes	10.35	106	2870	0.807	ug/l	96
73) Isopropylbenzene	11.02	105	2545	0.333	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	62403	25.130	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	62403	72.016	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.80	105	2449	0.379	ug/l	96
85) sec-Butylbenzene	11.80	105	2449	0.340	ug/l #	57

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

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

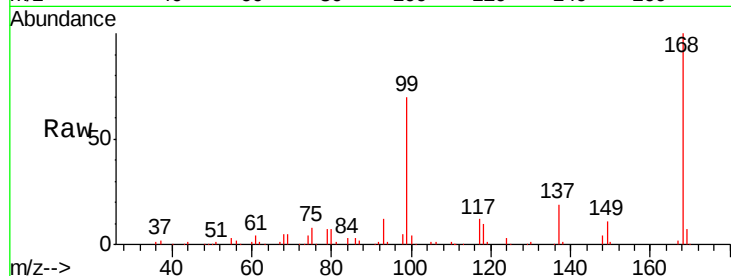
Z2-0161DL

Tgt Ion:168 Resp: 169086

Ion Ratio Lower Upper

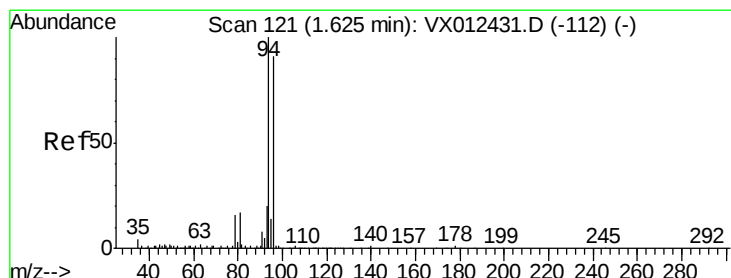
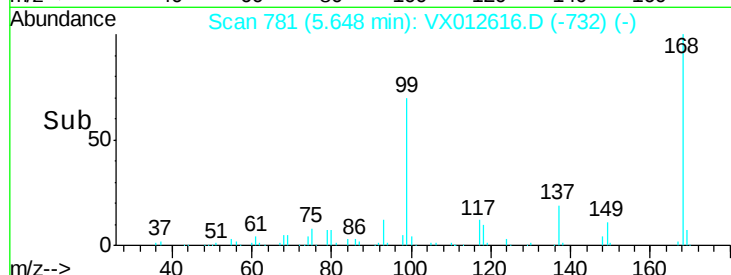
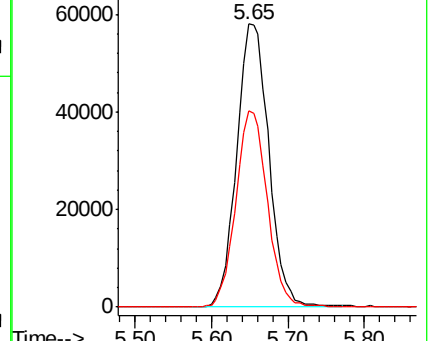
168 100

99 69.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.349 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012616.D

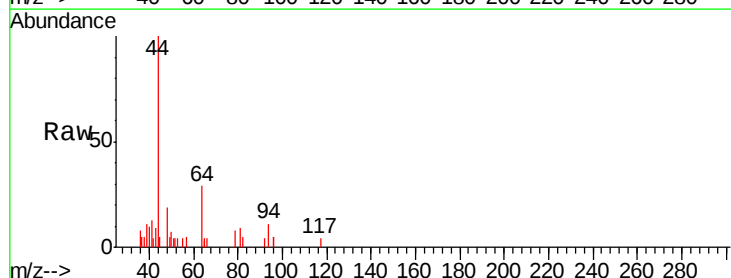
Acq: 23 Sep 2019 19:51

Tgt Ion: 94 Resp: 298

Ion Ratio Lower Upper

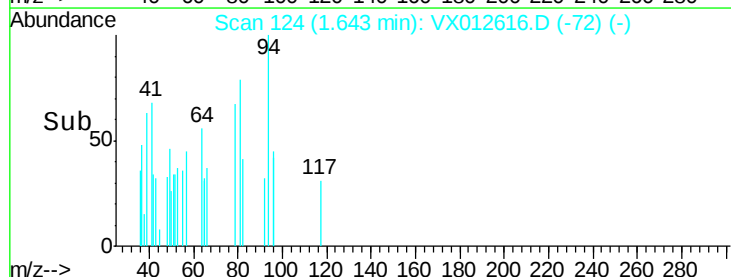
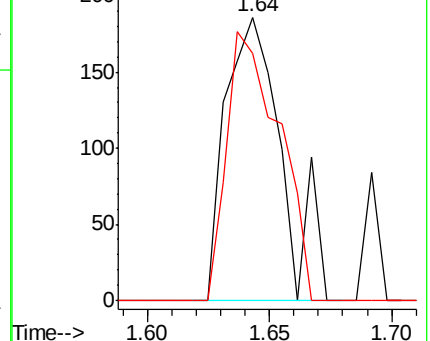
94 100

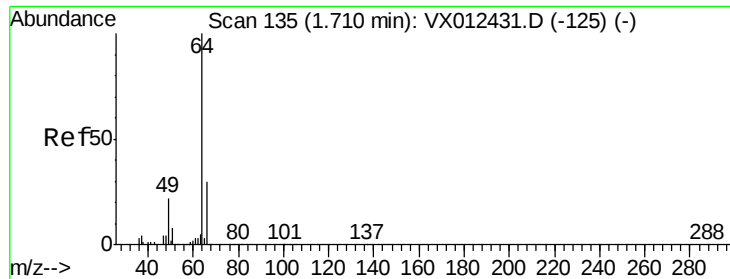
96 87.1 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.297 ug/l

RT: 1.78 min Scan# 146

Delta R.T. 0.07 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampled :

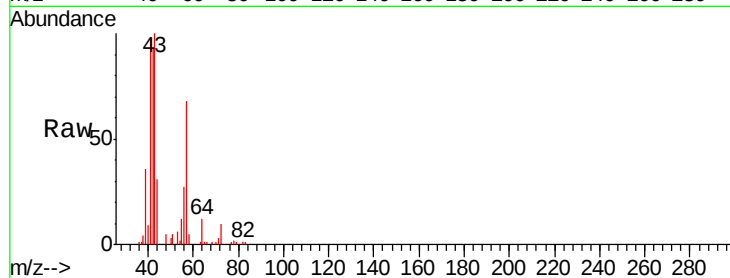
Z2-0161DL

Tgt Ion: 64 Resp: 435

Ion Ratio Lower Upper

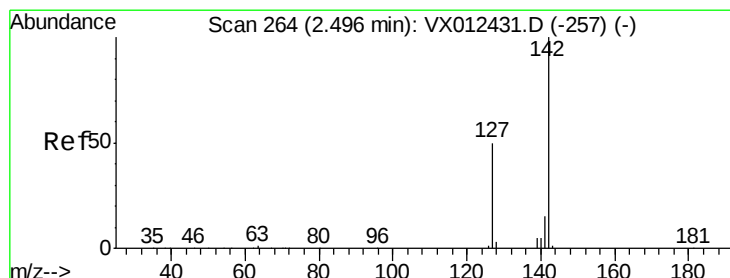
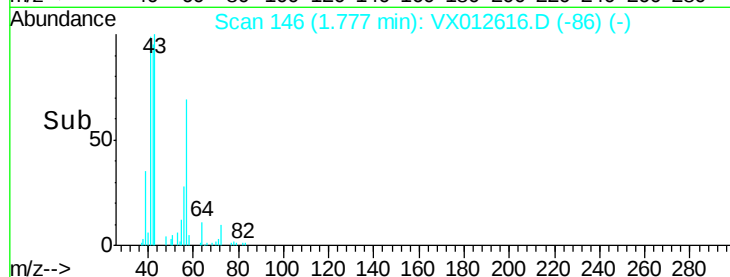
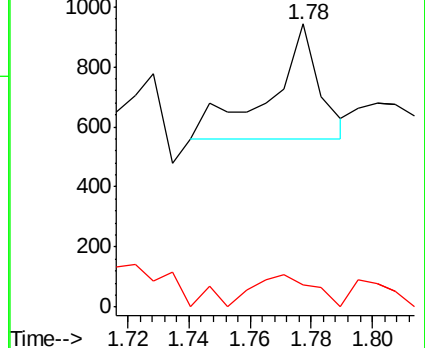
64 100

66 19.5 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.023 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

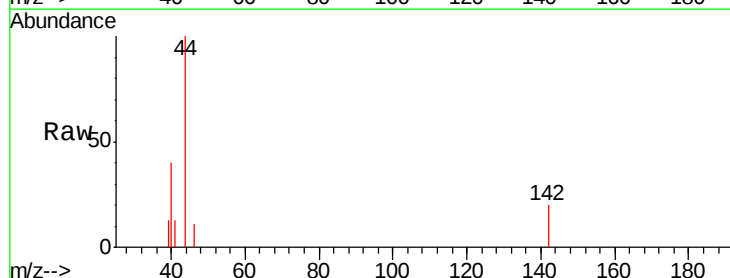
Tgt Ion: 142 Resp: 151

Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

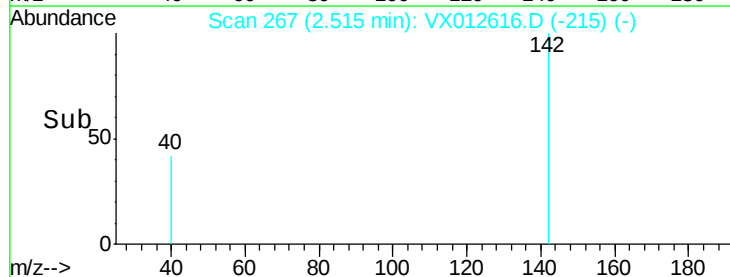
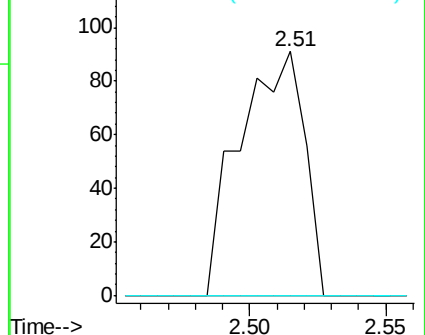
141 0.0 12.1 18.1#

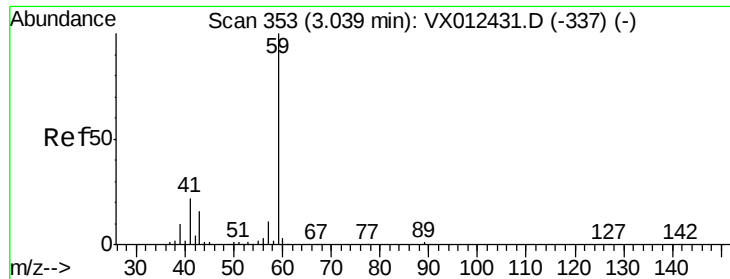


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

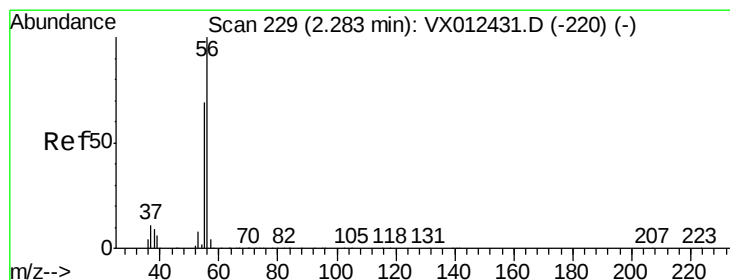
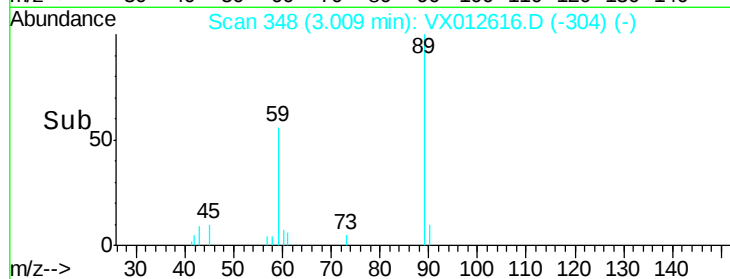
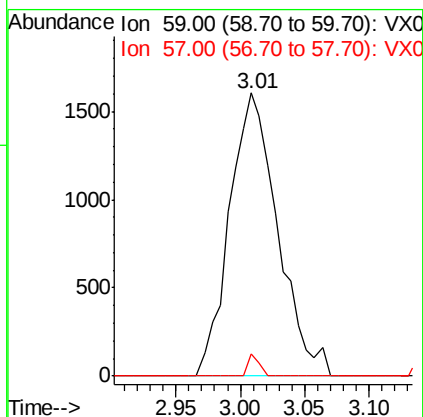
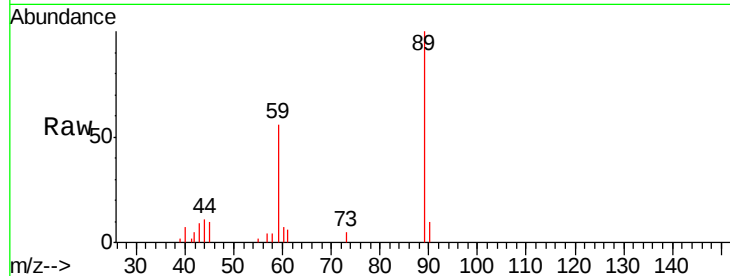




#11
Tert butyl alcohol
Concen: 6.778 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

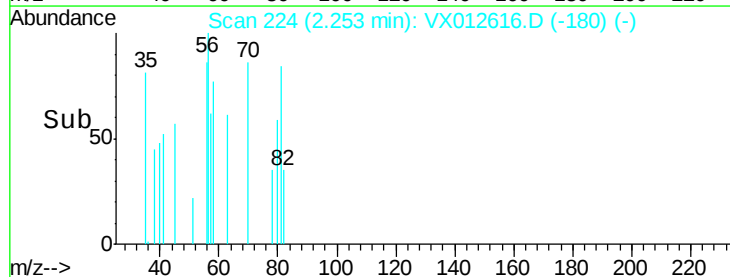
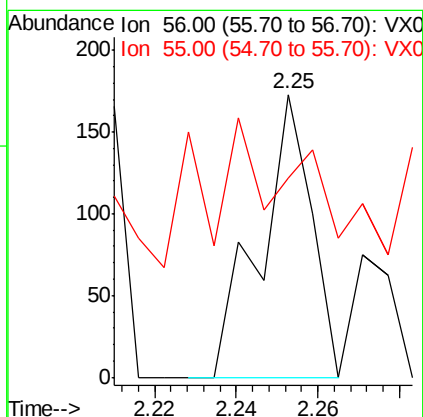
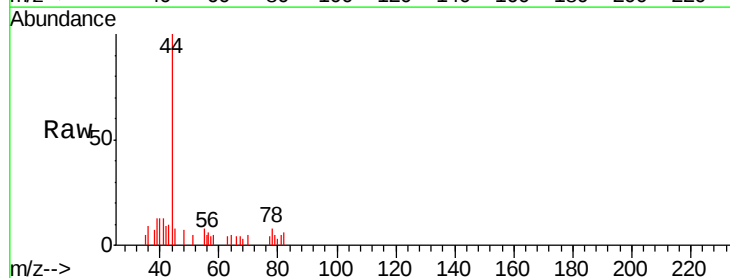
Instrument :
MSVOA_X
ClientSampleId :
Z2-0161DL

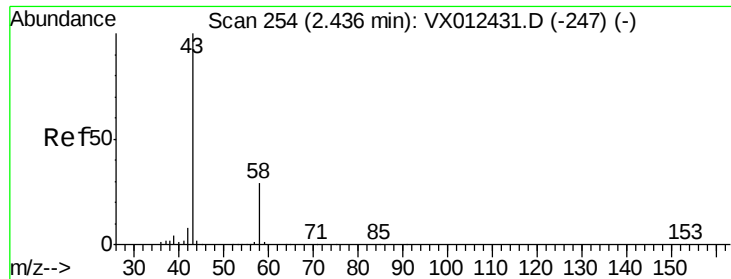
Tgt Ion: 59 Resp: 4169
Ion Ratio Lower Upper
59 100
57 1.8 8.3 12.5#



#13
Acrolein
Concen: 10.658 ug/l
RT: 2.25 min Scan# 224
Delta R.T. -0.03 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 244.7 55.8 83.8#





#16

Acetone

Concen: 0.551 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

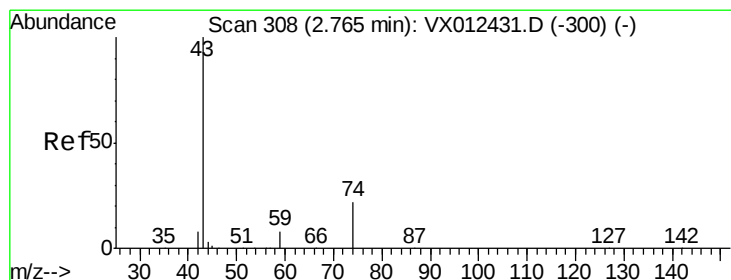
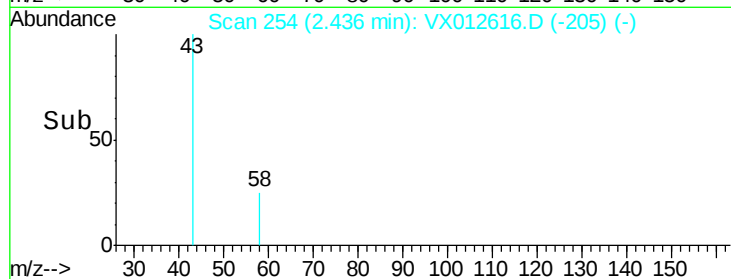
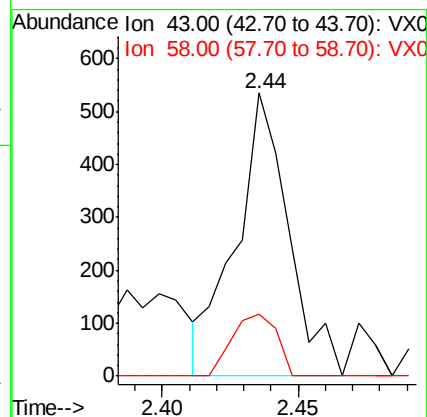
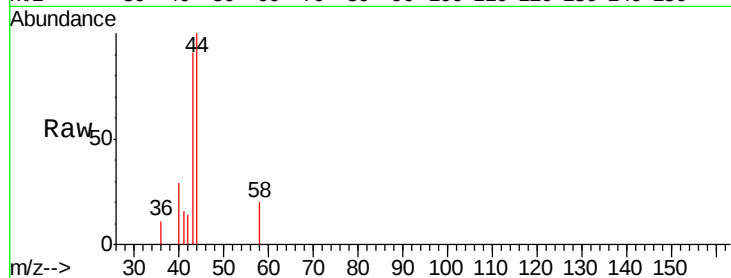
Z2-0161DL

Tgt Ion: 43 Resp: 718

Ion Ratio Lower Upper

43 100

58 21.7 23.3 34.9#



#18

Methyl Acetate

Concen: 3.166 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.07 min

Lab File: VX012616.D

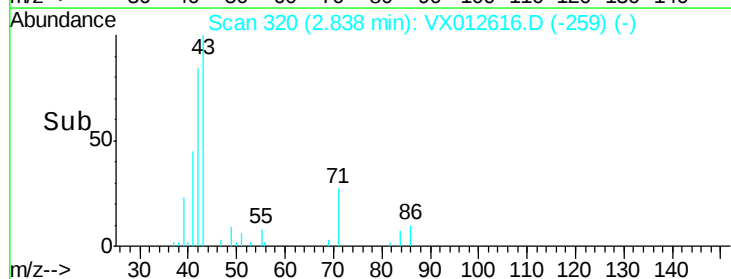
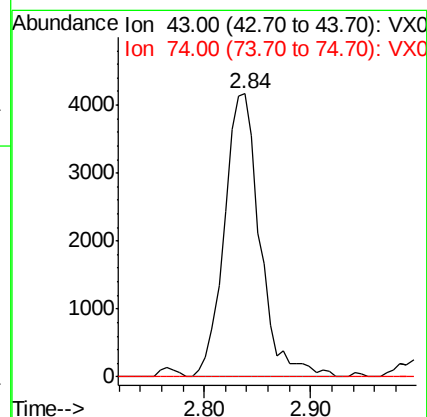
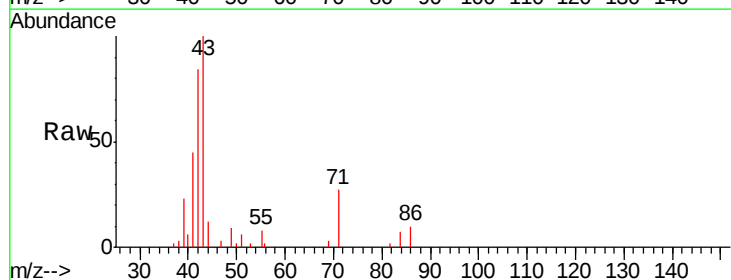
Acq: 23 Sep 2019 19:51

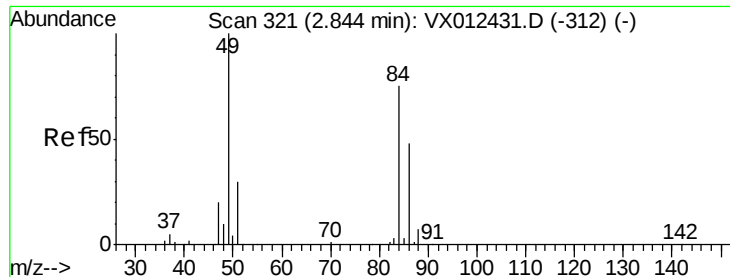
Tgt Ion: 43 Resp: 9724

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#

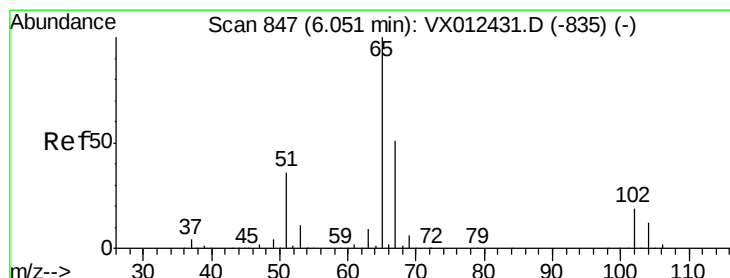
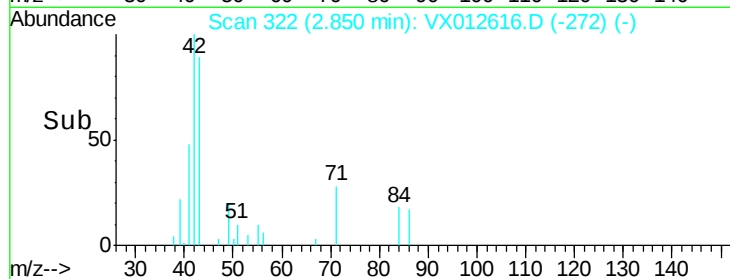
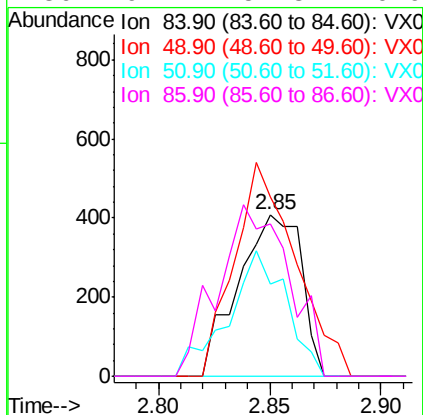
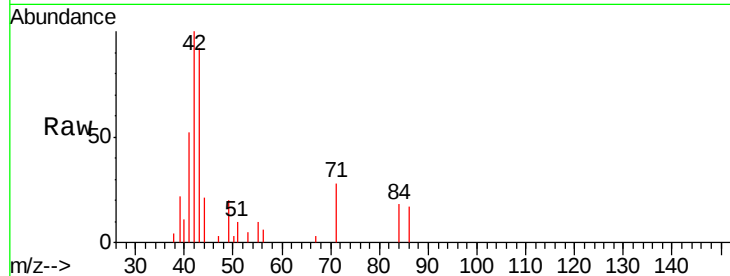




#20
Methylene Chloride
Concen: 0.364 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

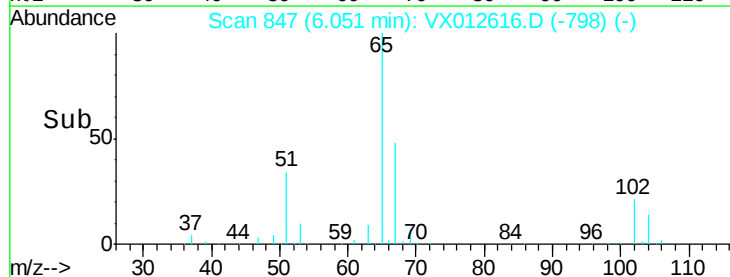
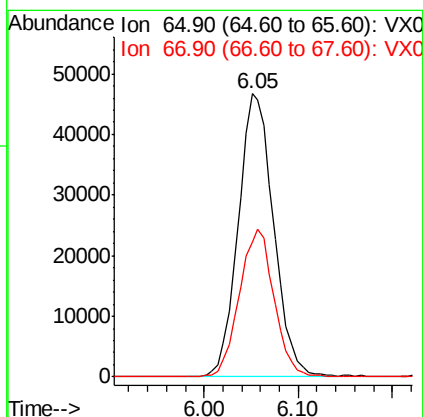
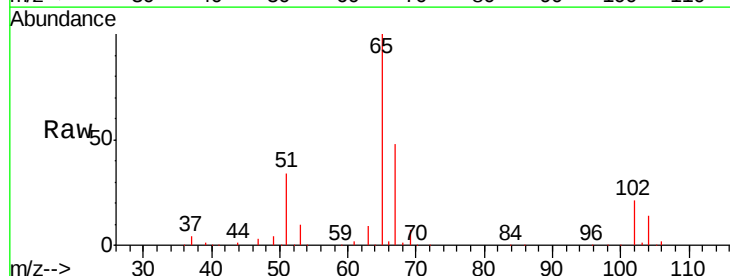
Instrument :
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ClientSampleId :
Z2-0161DL

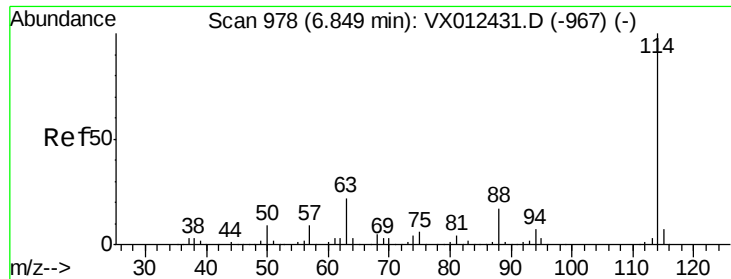
Tgt Ion: 84 Resp: 802
Ion Ratio Lower Upper
84 100
49 111.3 106.8 160.2
51 57.4 32.3 48.5#
86 94.1 51.3 76.9#



#33
1,2-Dichloroethane-d4
Concen: 49.435 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

Tgt Ion: 65 Resp: 121721
Ion Ratio Lower Upper
65 100
67 51.2 0.0 101.2

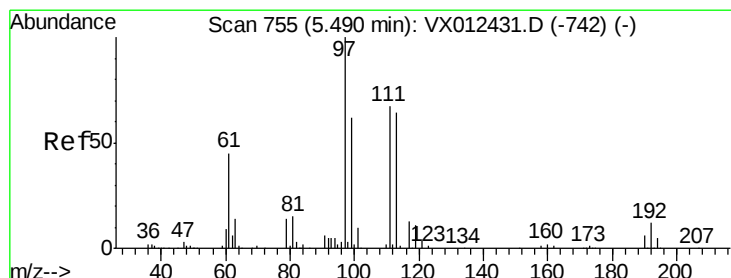
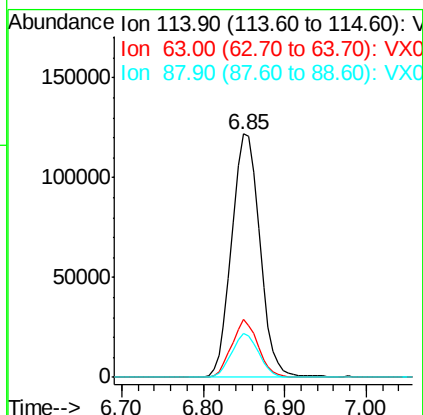
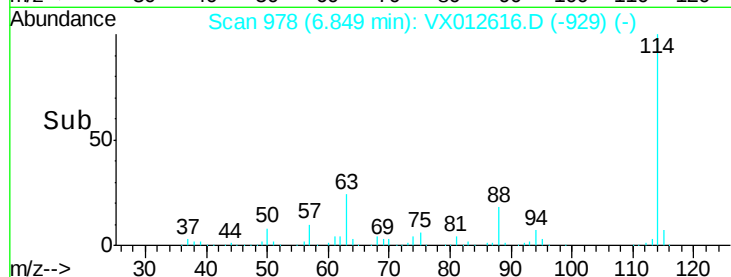
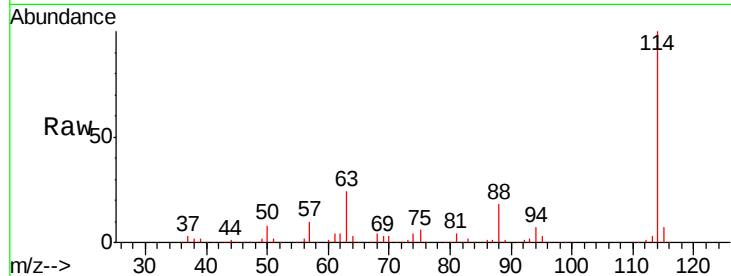




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012616.D
 Acq: 23 Sep 2019 19:51

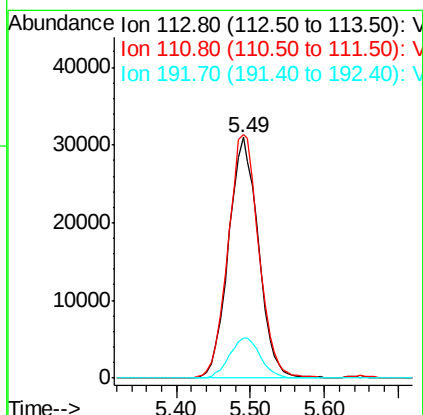
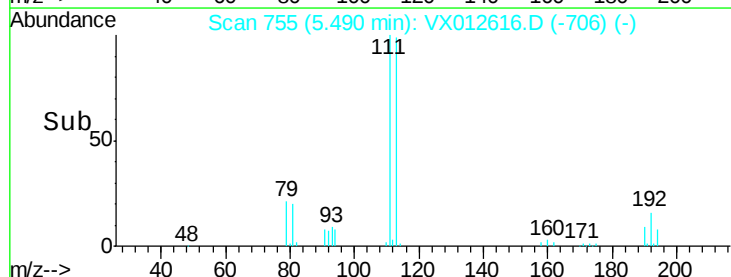
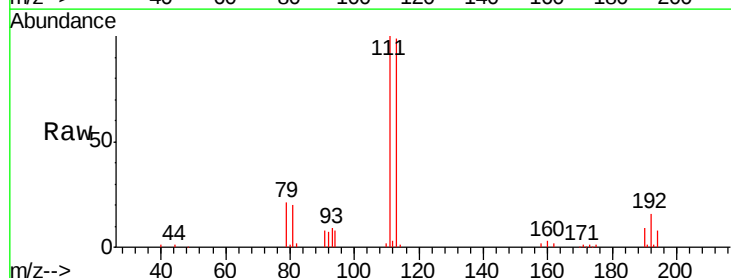
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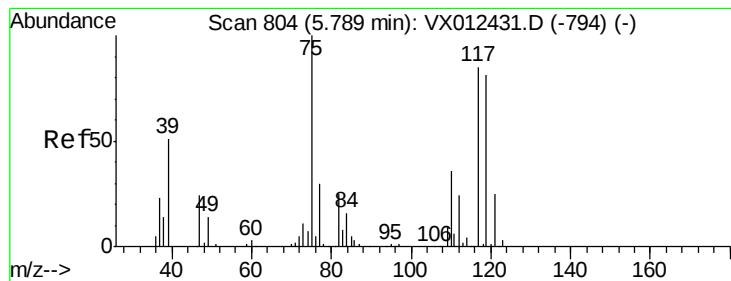
Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	43.2
88	17.8	0.0	33.2



#35
 Dibromofluoromethane
 Concen: 50.118 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012616.D
 Acq: 23 Sep 2019 19:51

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.4	125.2
192	17.2	14.4	21.6





#36

1,1-Dichloropropene

Concen: 5.226 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

Z2-0161DL

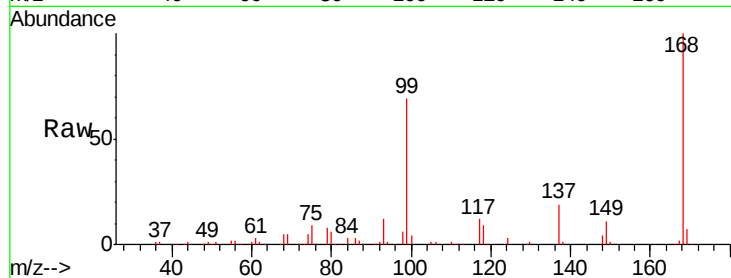
Tgt Ion: 75 Resp: 14700

Ion Ratio Lower Upper

75 100

110 8.9 16.7 50.0#

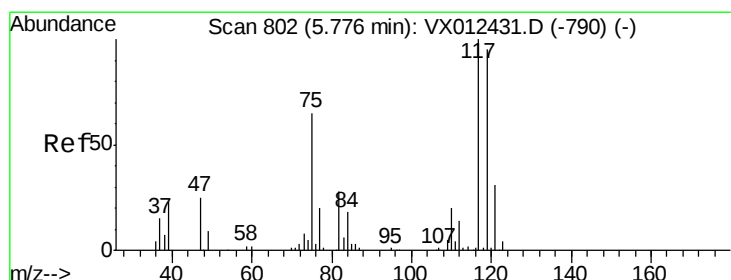
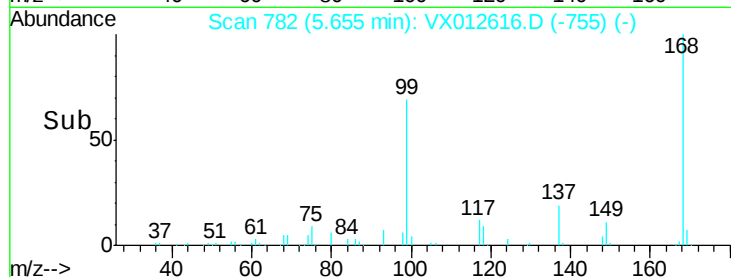
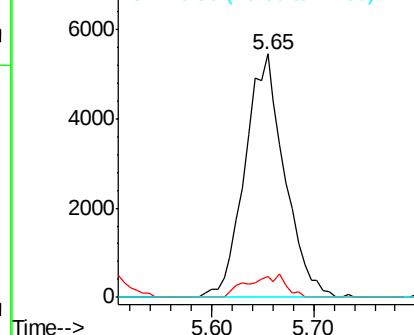
77 0.0 24.2 36.2#



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: 6.760 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

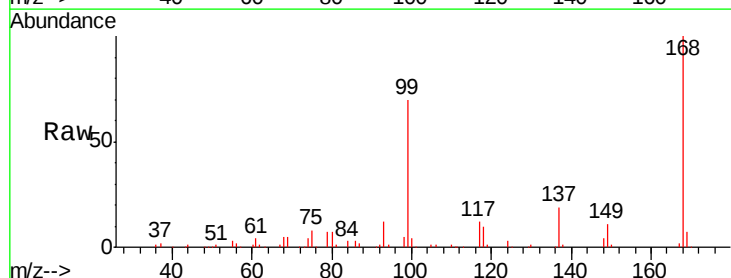
Tgt Ion: 117 Resp: 19318

Ion Ratio Lower Upper

117 100

119 5.9 75.7 113.5#

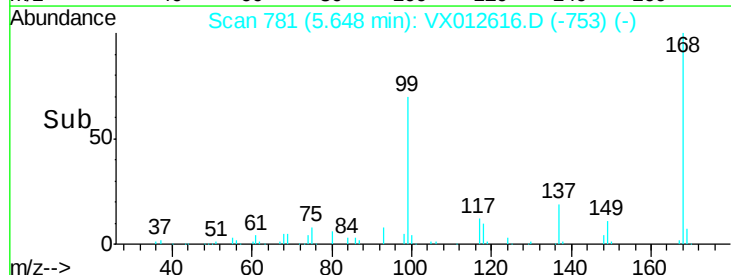
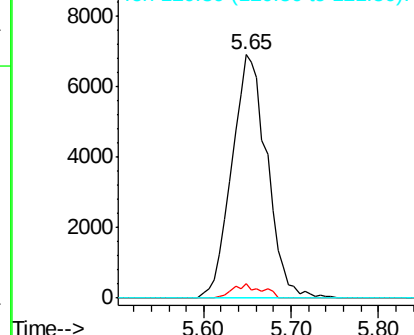
121 0.0 24.2 36.4#

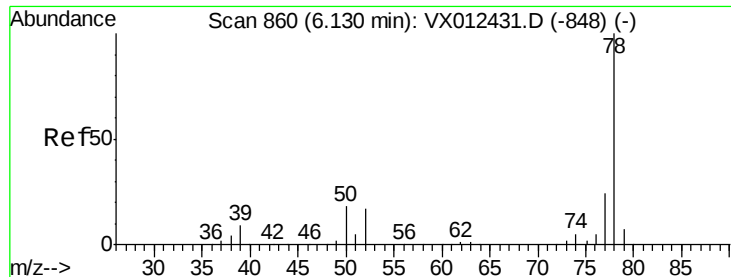


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 36.512 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampled :

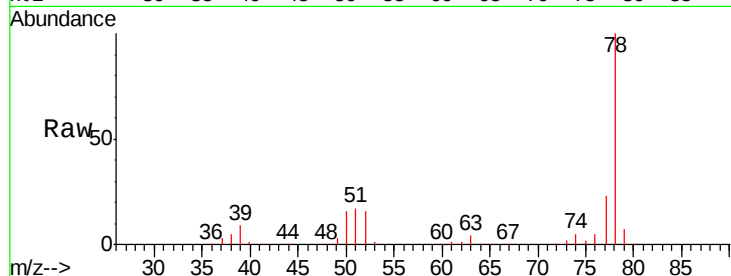
Z2-0161DL

Tgt Ion: 78 Resp: 302192

Ion Ratio Lower Upper

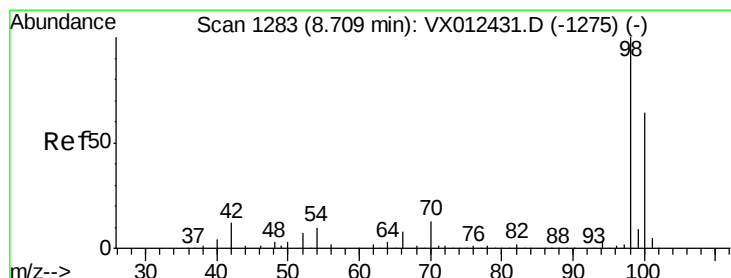
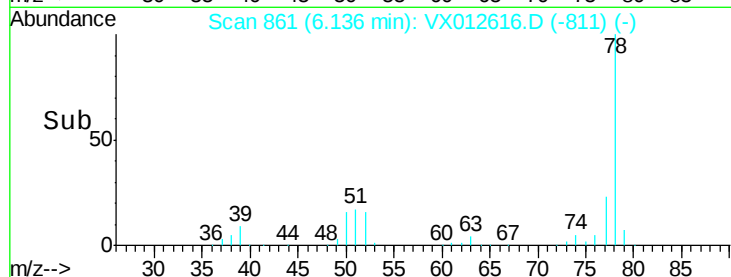
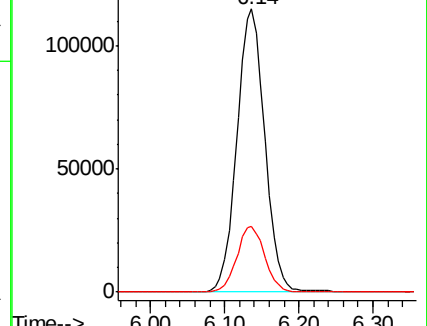
78 100

77 23.3 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 51.406 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012616.D

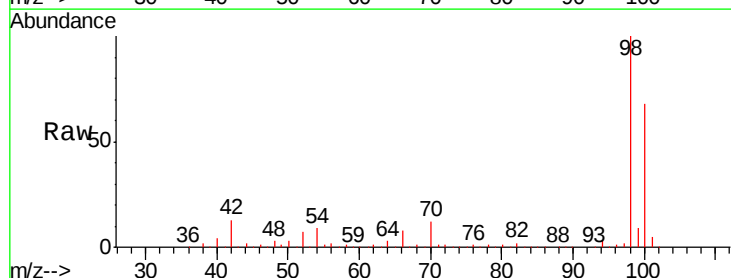
Acq: 23 Sep 2019 19:51

Tgt Ion: 98 Resp: 344067

Ion Ratio Lower Upper

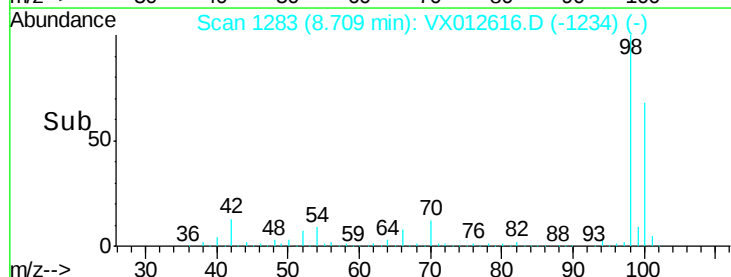
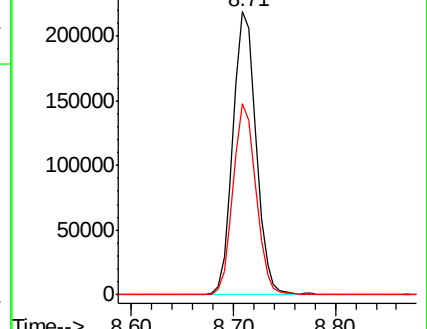
98 100

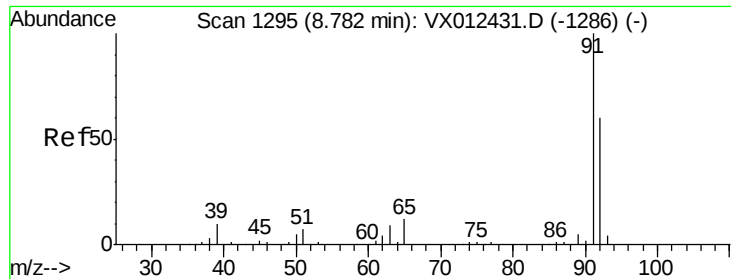
100 66.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 0.564 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampleID :

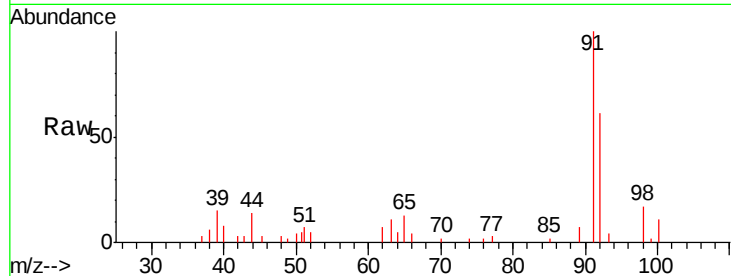
Z2-0161DL

Tgt Ion: 92 Resp: 2935

Ion Ratio Lower Upper

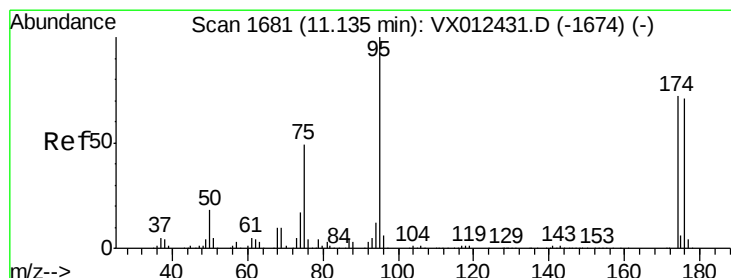
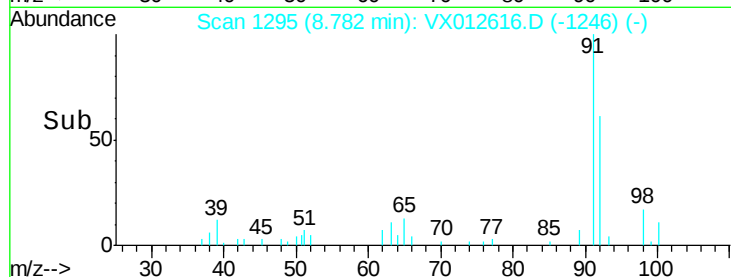
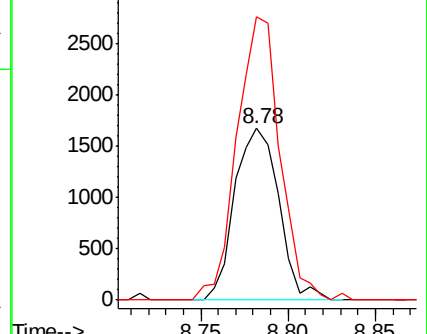
92 100

91 160.5 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.693 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

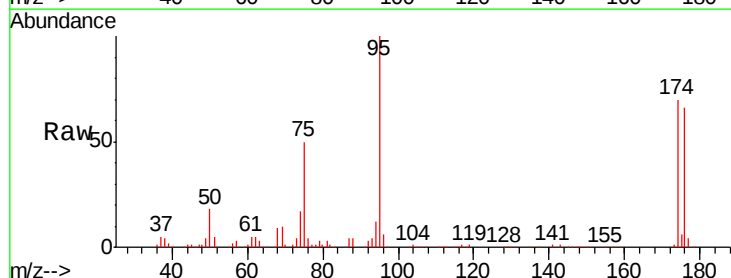
Tgt Ion: 95 Resp: 120254

Ion Ratio Lower Upper

95 100

174 66.9 0.0 140.0

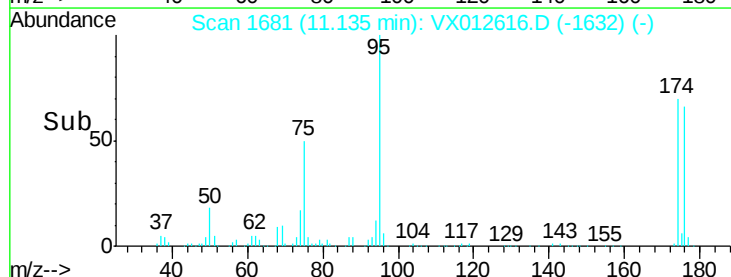
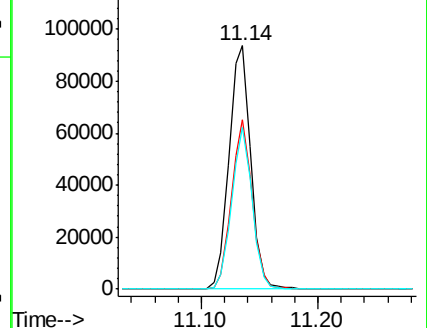
176 63.2 0.0 135.4

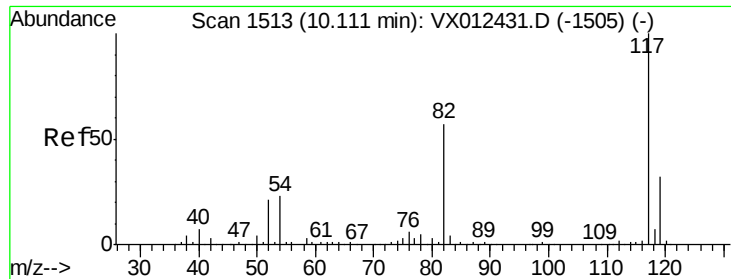


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

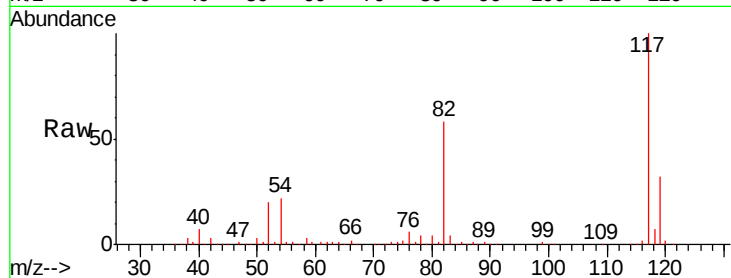




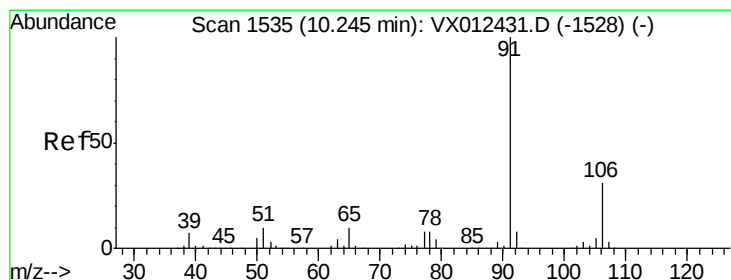
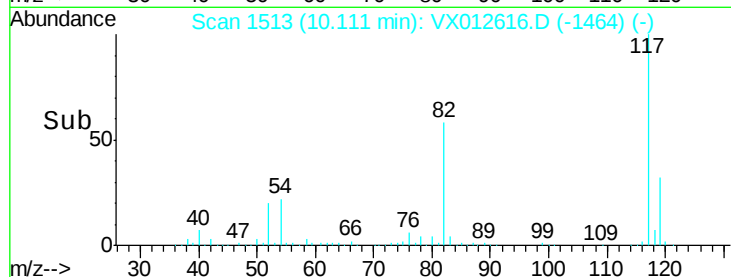
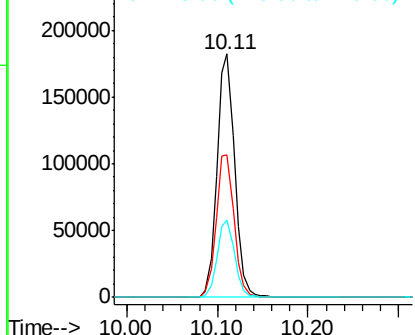
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

Instrument :
MSVOA_X
ClientSampleID :
Z2-0161DL

Tgt Ion: 117 Resp: 248670
Ion Ratio Lower Upper
117 100
82 58.4 45.9 68.9
119 31.9 25.3 37.9

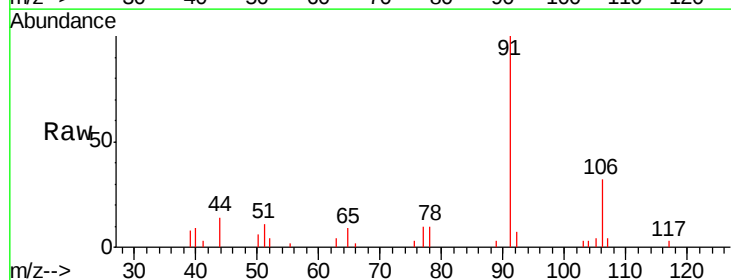


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

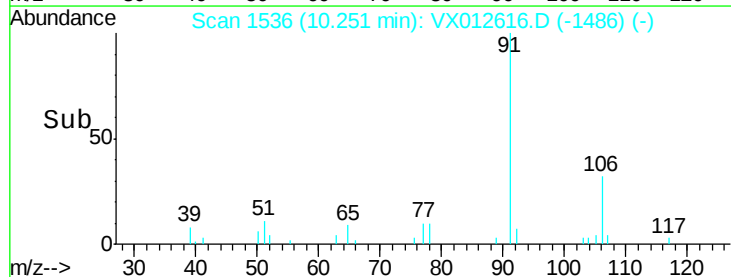
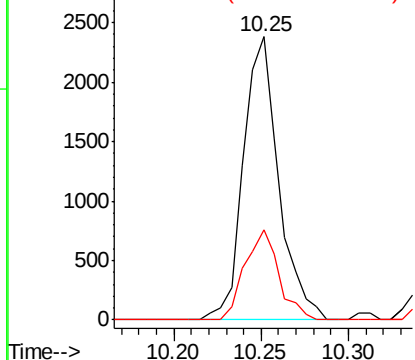


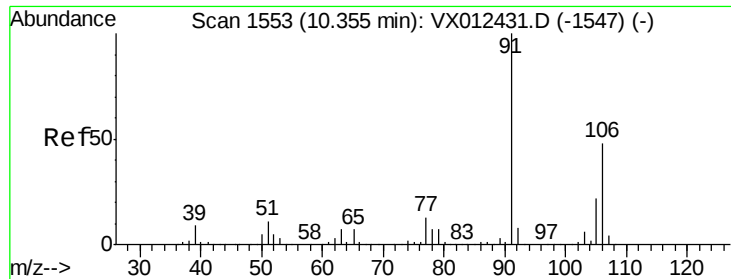
#67
Ethyl Benzene
Concen: 0.351 ug/l
RT: 10.25 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

Tgt Ion: 91 Resp: 3338
Ion Ratio Lower Upper
91 100
106 32.0 24.6 37.0



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V

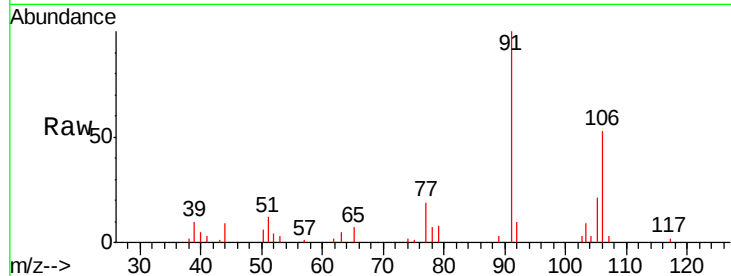




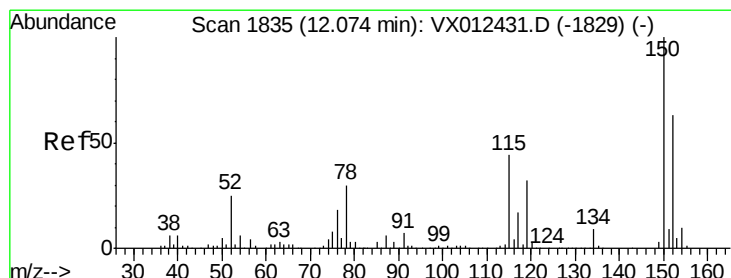
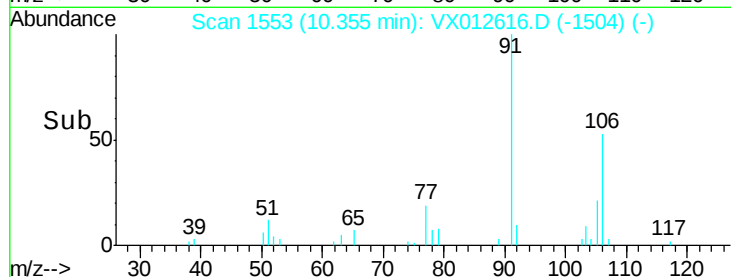
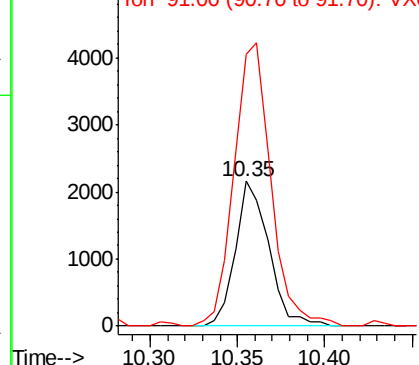
#68
m/p-Xylenes
Concen: 0.807 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

Instrument :
MSVOA_X
ClientSampleId :
Z2-0161DL

Tgt Ion:106 Resp: 2870
Ion Ratio Lower Upper
106 100
91 215.1 166.6 250.0

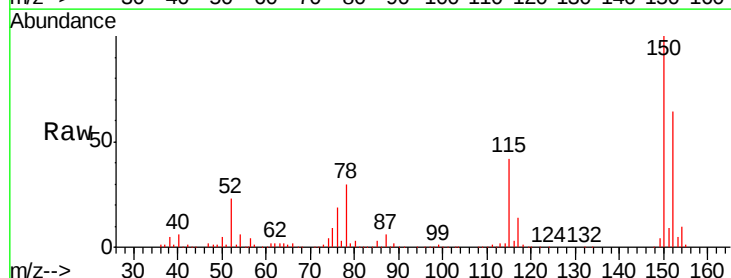


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

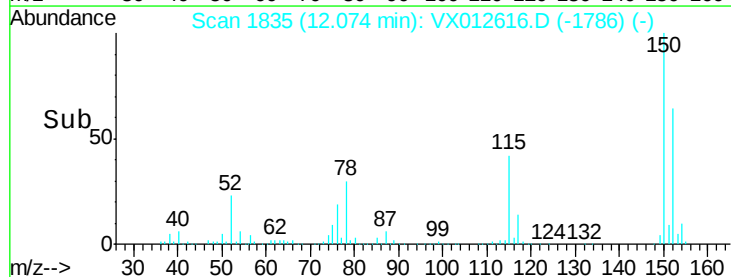
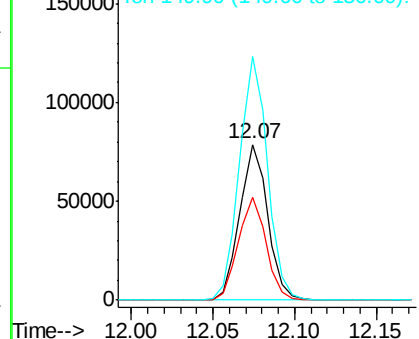


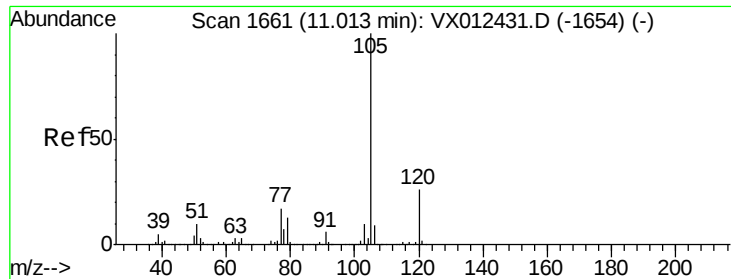
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012616.D
Acq: 23 Sep 2019 19:51

Tgt Ion:152 Resp: 93875
Ion Ratio Lower Upper
152 100
115 65.9 44.1 132.3
150 157.7 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





#73

Isopropylbenzene

Concen: 0.333 ug/l

RT: 11.02 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

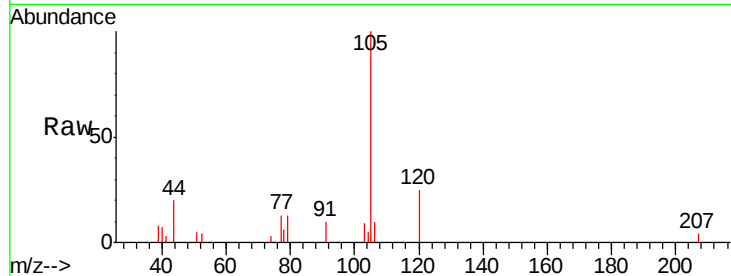
Z2-0161DL

Tgt Ion: 105 Resp: 2545

Ion Ratio Lower Upper

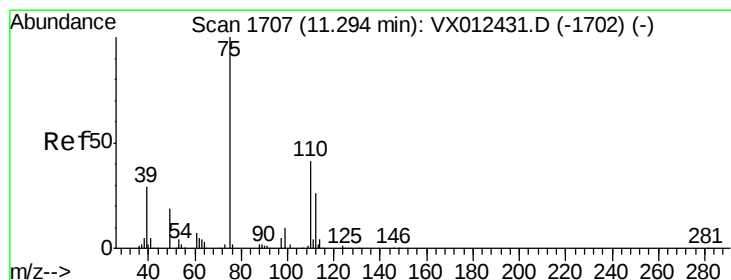
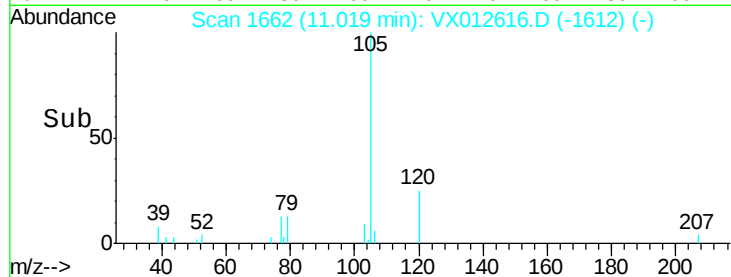
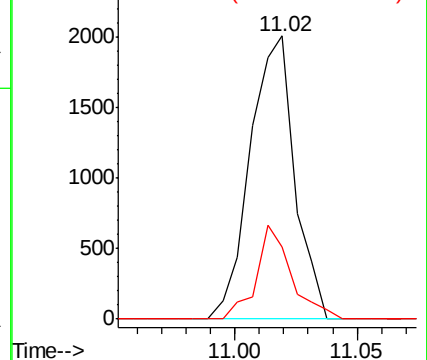
105 100

120 26.2 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 25.130 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012616.D

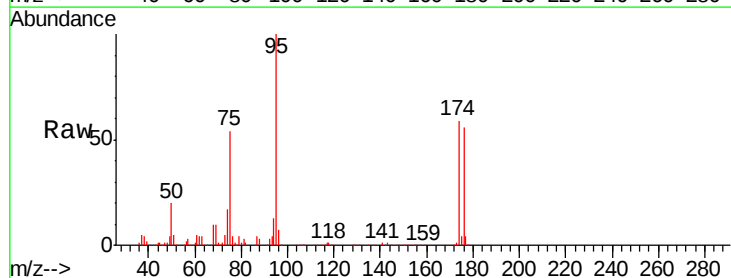
Acq: 23 Sep 2019 19:51

Tgt Ion: 75 Resp: 62403

Ion Ratio Lower Upper

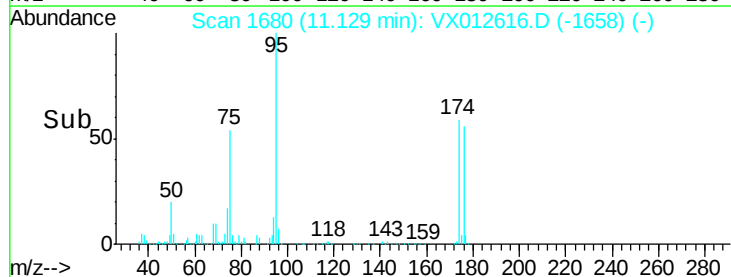
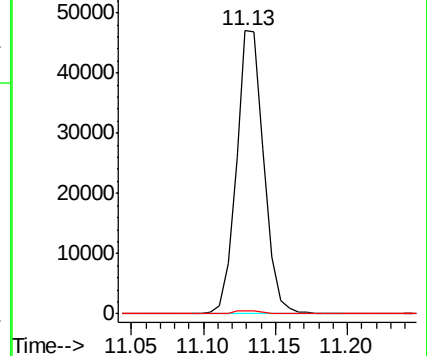
75 100

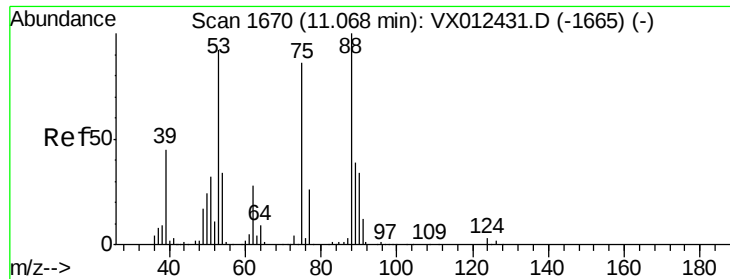
77 1.3 19.7 59.0#



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: 72.016 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012616.D

Acq: 23 Sep 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

Z2-0161DL

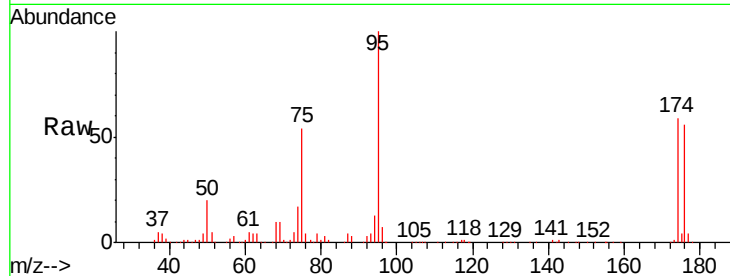
Tgt Ion: 75 Resp: 62403

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

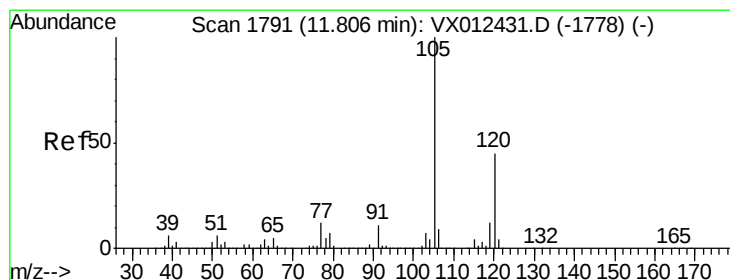
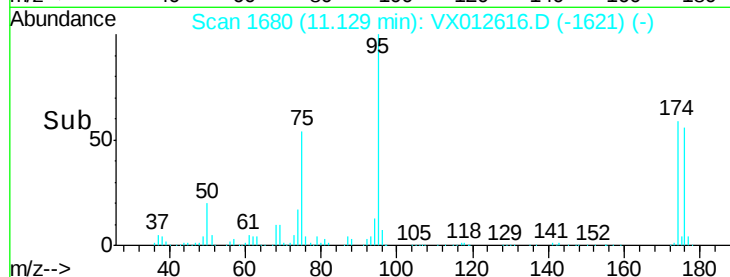
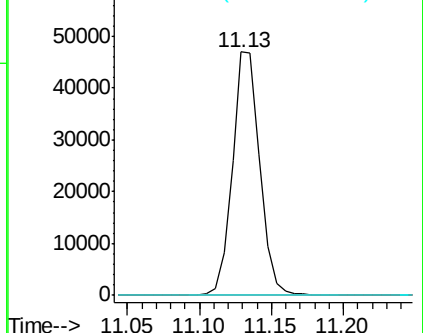
89 0.0 36.3 54.5#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.379 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. -0.01 min

Lab File: VX012616.D

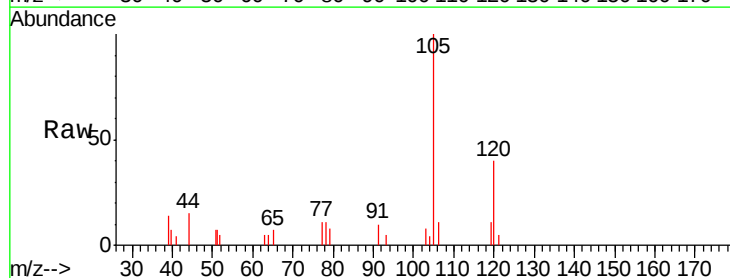
Acq: 23 Sep 2019 19:51

Tgt Ion: 105 Resp: 2449

Ion Ratio Lower Upper

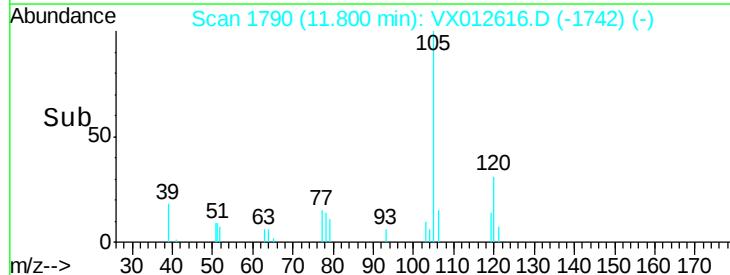
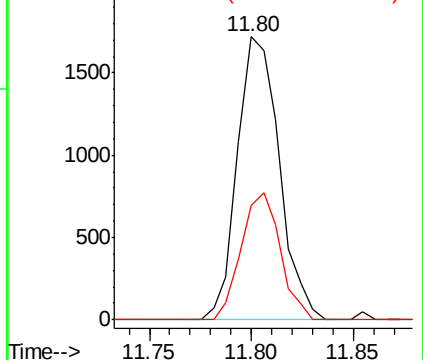
105 100

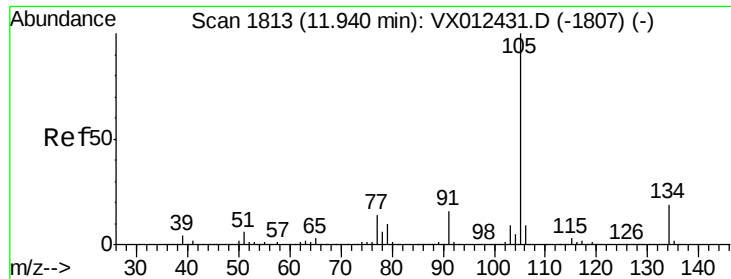
120 41.9 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85
 sec-Butylbenzene
 Concen: 0.340 ug/l
 RT: 11.80 min Scan# 1790
 Delta R.T. -0.14 min
 Lab File: VX012616.D
 Acq: 23 Sep 2019 19:51

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2-0161DL

Tgt Ion:105 Resp: 2449
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#

