

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX101119\
 Data File : VX013029.D
 Acq On : 11 Oct 2019 20:13
 Operator : JC/SP
 Sample : K5313-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW3202

Quant Time: Oct 14 09:28:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	169469	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	276895	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	103248	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	104046	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
35) Dibromofluoromethane	5.49	113	81329	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
50) Toluene-d8	8.71	98	327382	52.82	ug/l	0.00
Spiked Amount			Recovery	=	105.64%	
62) 4-Bromofluorobenzene	11.14	95	114425	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	

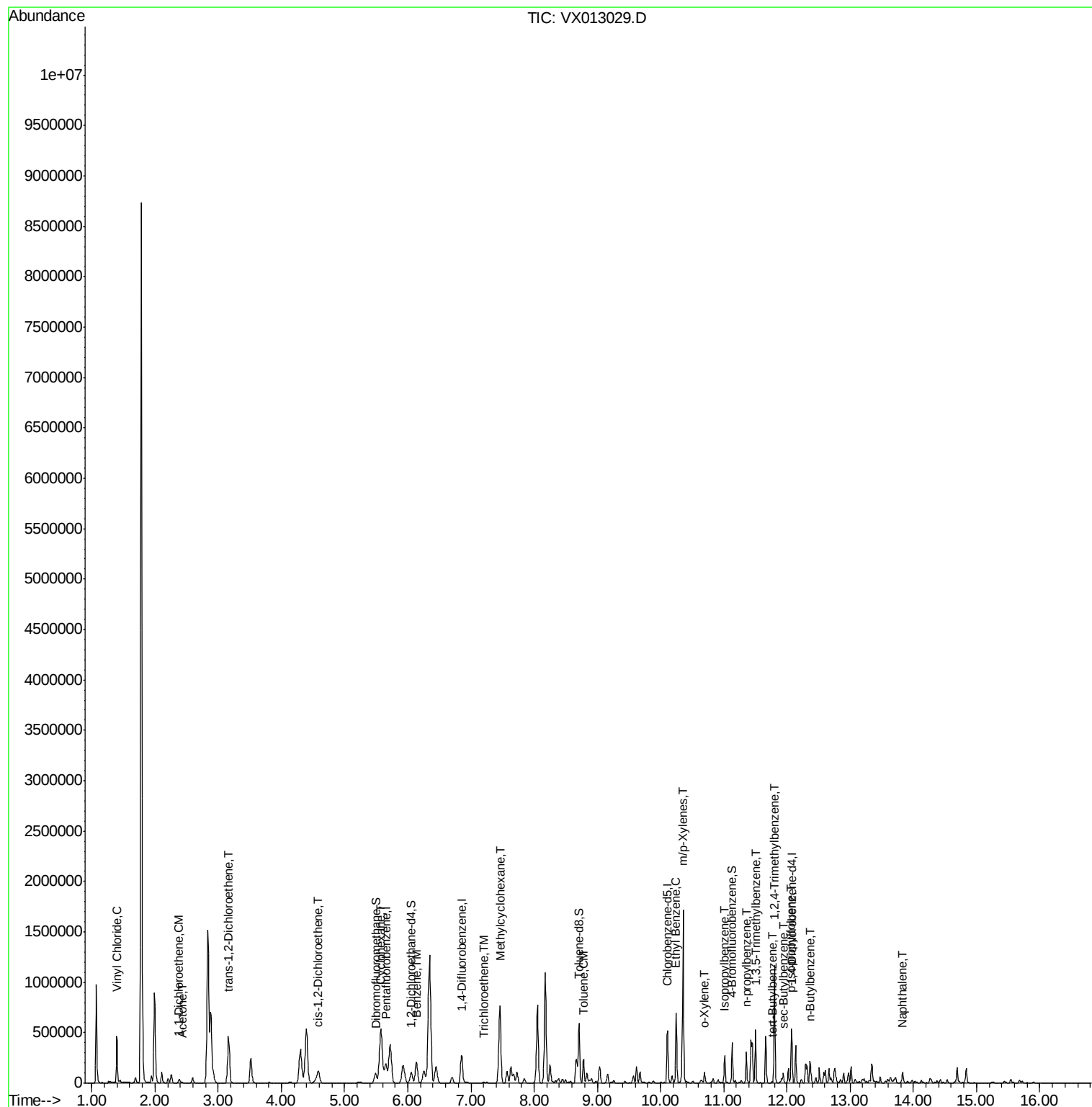
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	30450	15.692	ug/l	97
12) 1,1-Dichloroethene	2.36	96	1296	0.757	ug/l #	78
16) Acetone	2.44	43	5343	4.786	ug/l	89
21) trans-1,2-Dichloroethene	3.16	96	1221	0.665	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	67803	32.046	ug/l	88
31) Cyclohexane	5.58	56	382057	124.276	ug/l	100
39) Methylcyclohexane	7.46	83	352473	119.387	ug/l	96
40) Benzene	6.14	78	254592	35.408	ug/l	100
44) Trichloroethene	7.21	130	2347	1.177	ug/l	94
52) Toluene	8.78	92	91421	19.874	ug/l	97
67) Ethyl Benzene	10.25	91	412659	48.479	ug/l	99
68) m/p-Xylenes	10.36	106	387336	121.804	ug/l	99
69) o-Xylene	10.70	106	23969	7.729	ug/l	92
73) Isopropylbenzene	11.01	105	141261	18.609	ug/l	100
78) n-propylbenzene	11.35	91	188369	22.551	ug/l	97
80) 1,3,5-Trimethylbenzene	11.50	105	223482	35.258	ug/l	96
83) tert-Butylbenzene	11.77	119	5602	0.906	ug/l	90
84) 1,2,4-Trimethylbenzene	11.81	105	536172	83.523	ug/l	96
85) sec-Butylbenzene	11.94	105	49825	6.955	ug/l	81
86) p-Isopropyltoluene	12.06	119	32204	4.847	ug/l	96
89) n-Butylbenzene	12.38	91	34076	6.103	ug/l #	35
95) Naphthalene	13.83	128	63737	9.013	ug/l	96

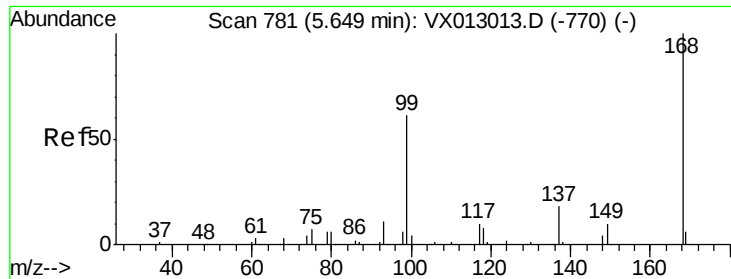
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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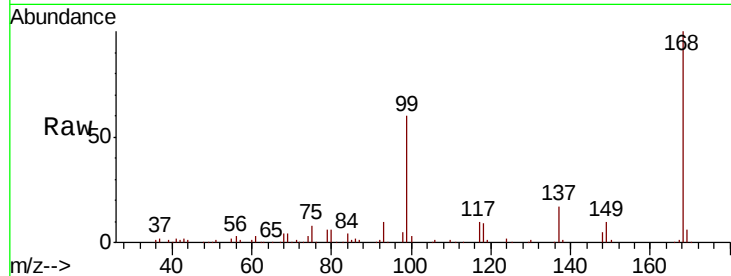




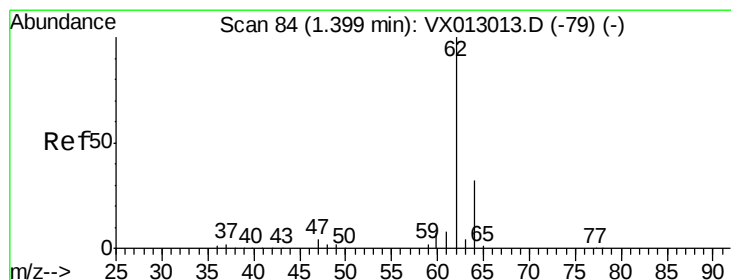
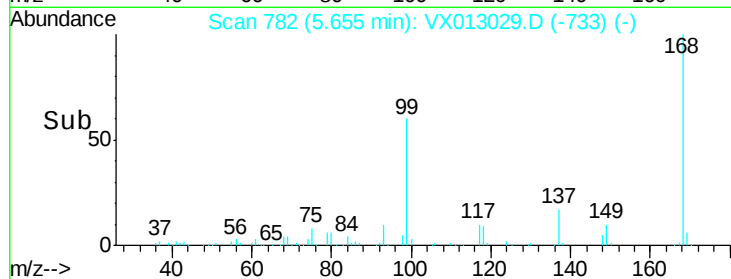
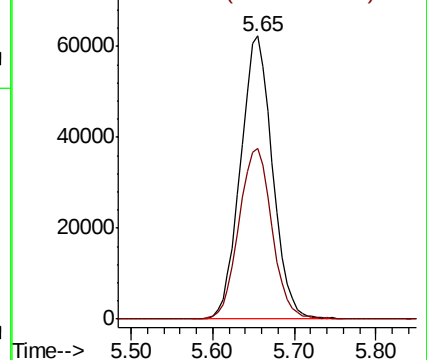
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW3202

Tot Ion:168 Resp: 169469
Ion Ratio Lower Upper
168 100
99 60.4 49.4 74.0

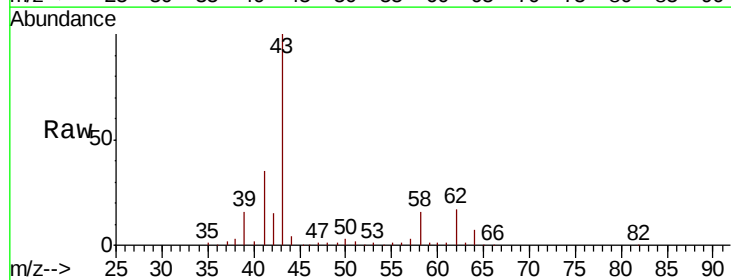


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0

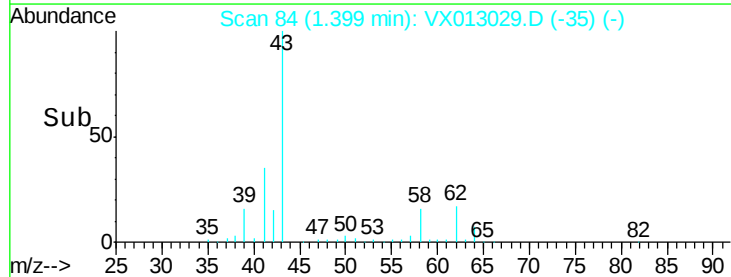
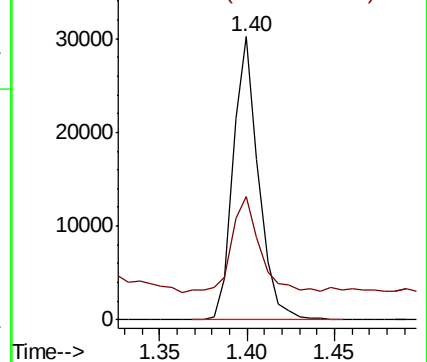


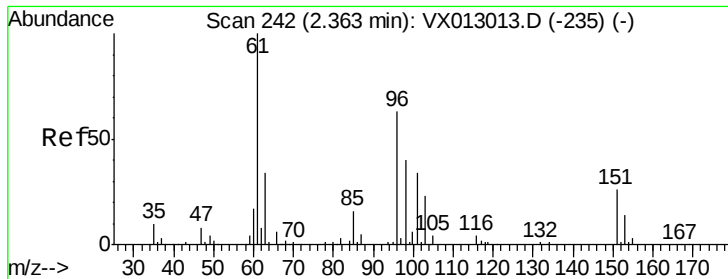
#4
Vinyl Chloride
Concen: 15.692 ug/l
RT: 1.40 min Scan# 84
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Tgt Ion: 62 Resp: 30450
Ion Ratio Lower Upper
62 100
64 33.2 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 63.90 (63.60 to 64.60): VX0





#12

1,1-Dichloroethene

Concen: 0.757 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW3202

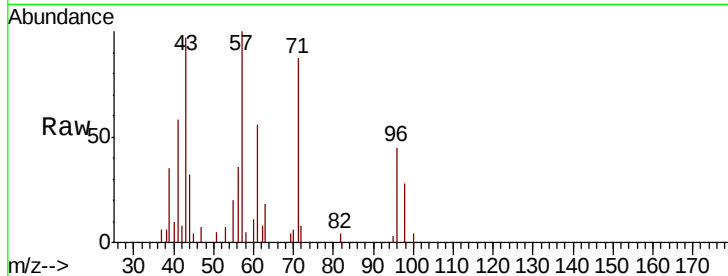
Tot Ion: 96 Resp: 1296

Ion Ratio Lower Upper

96 100

61 124.6 132.2 198.4#

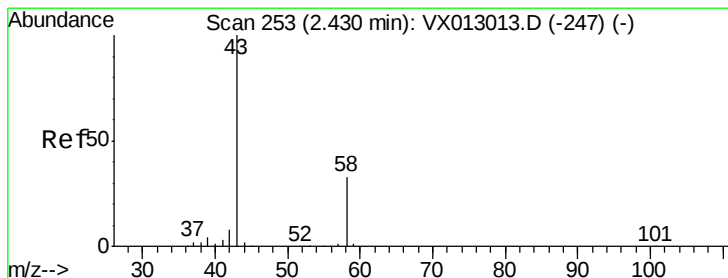
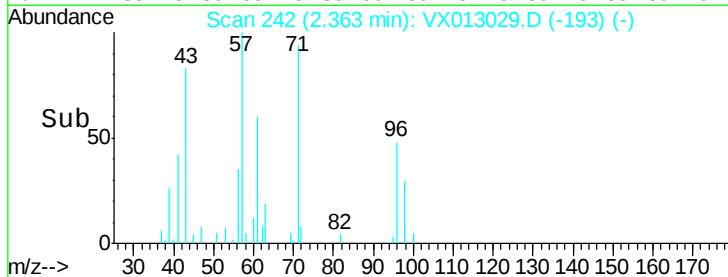
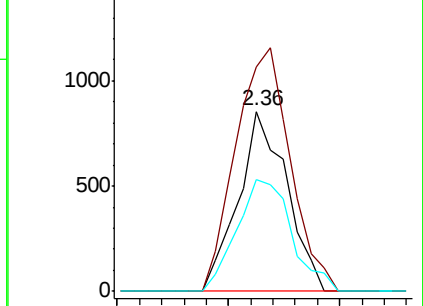
98 62.2 50.5 75.7



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



#16

Acetone

Concen: 4.786 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX013029.D

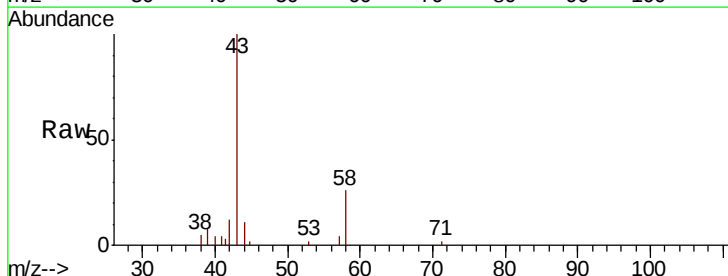
Acq: 11 Oct 2019 20:13

Tgt Ion: 43 Resp: 5343

Ion Ratio Lower Upper

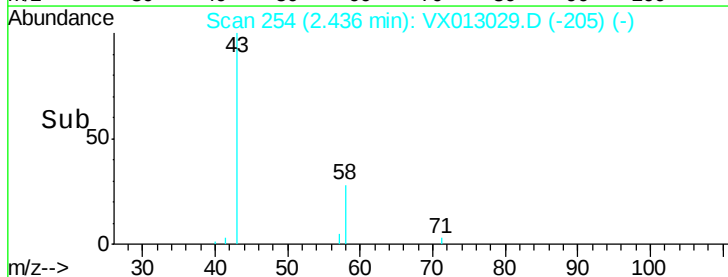
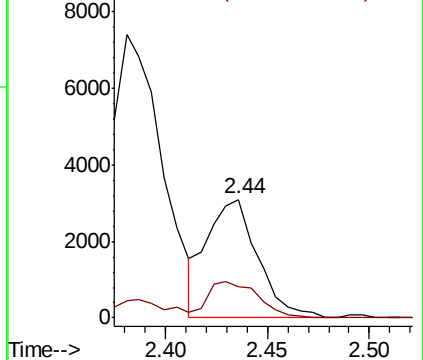
43 100

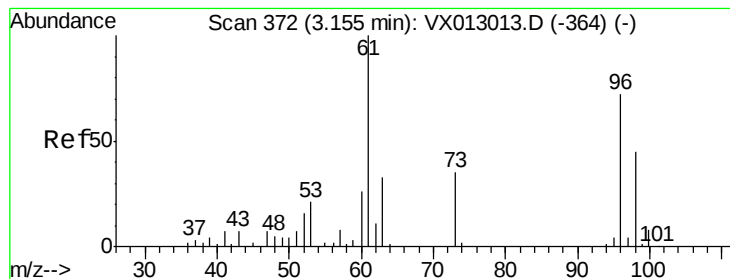
58 25.9 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.665 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW3202

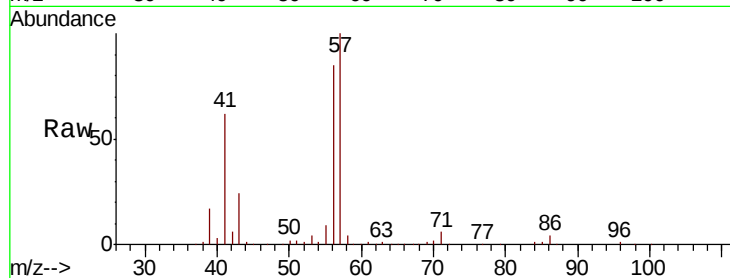
Tot Ion: 96 Resp: 1221

Ion Ratio Lower Upper

96 100

61 124.3 110.4 165.6

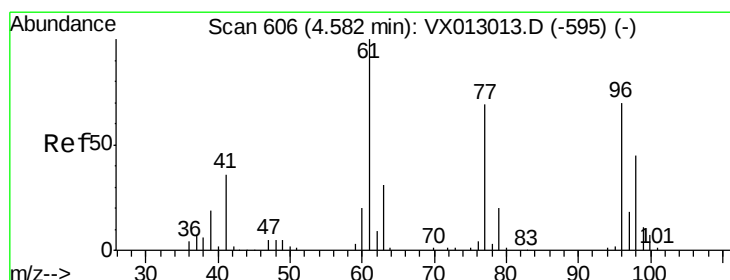
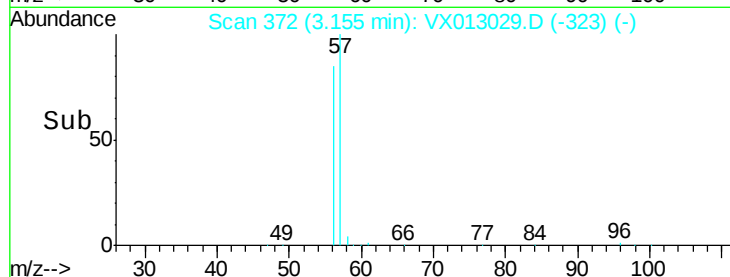
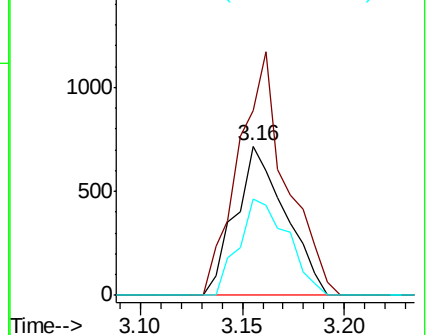
98 64.9 51.5 77.3



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



#27

cis-1,2-Dichloroethene

Concen: 32.046 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

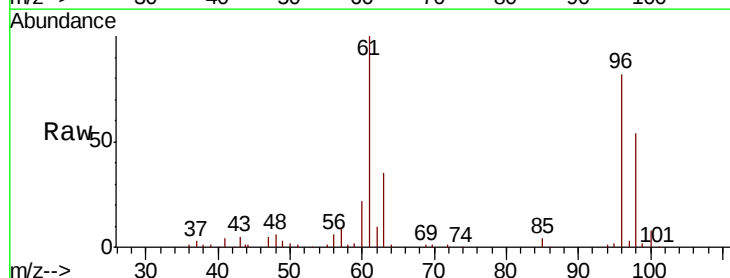
Tgt Ion: 96 Resp: 67803

Ion Ratio Lower Upper

96 100

61 125.7 0.0 290.6

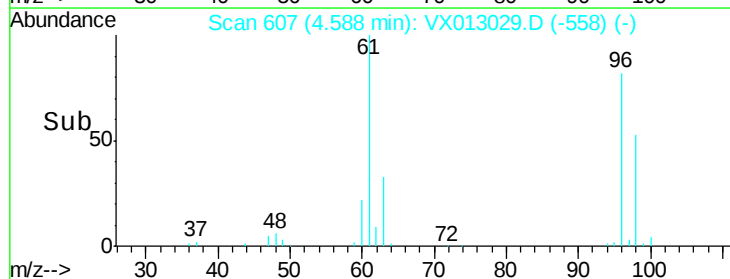
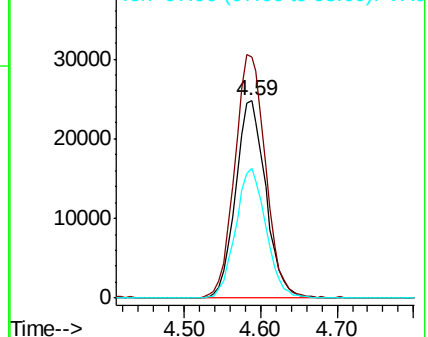
98 66.0 0.0 128.8

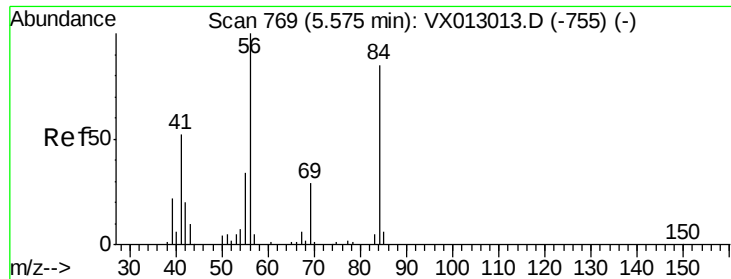


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

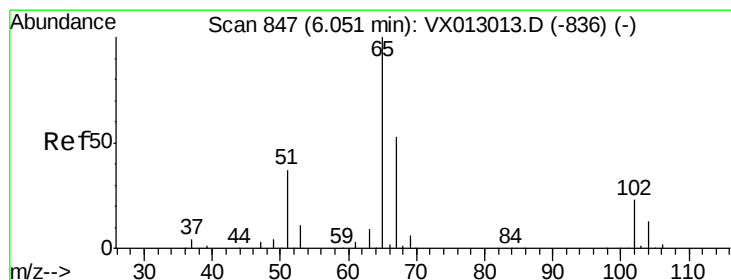
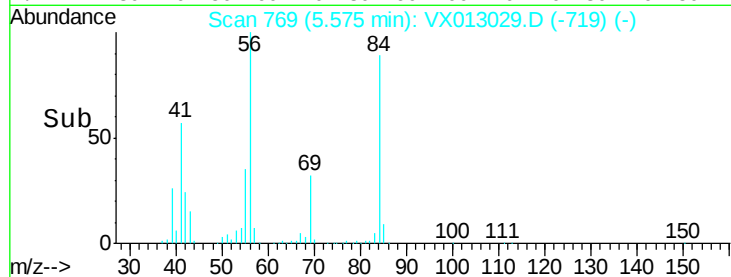
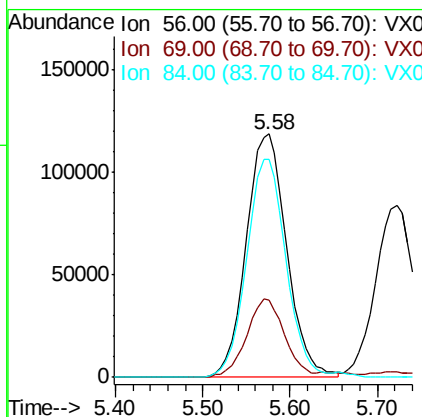
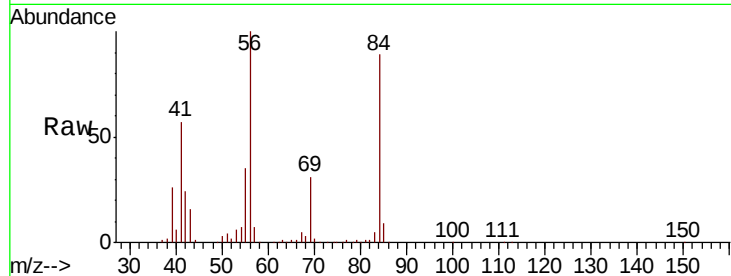




#31
Cyclohexane
Concen: 124.276 ug/l
RT: 5.58 min Scan# 769
Delta R.T. 0.01 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

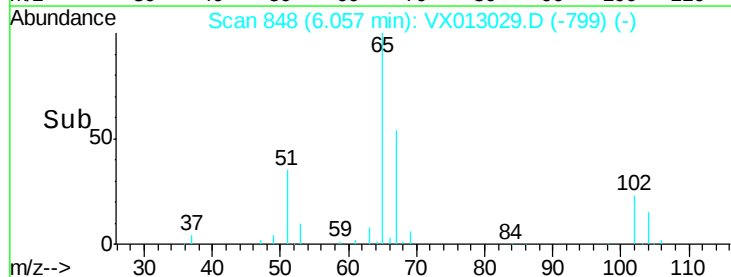
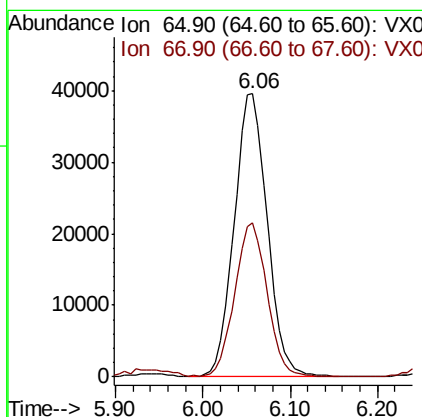
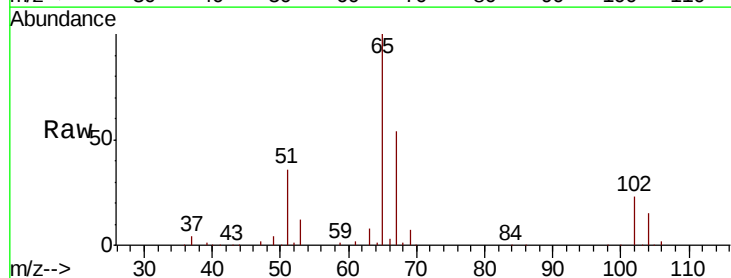
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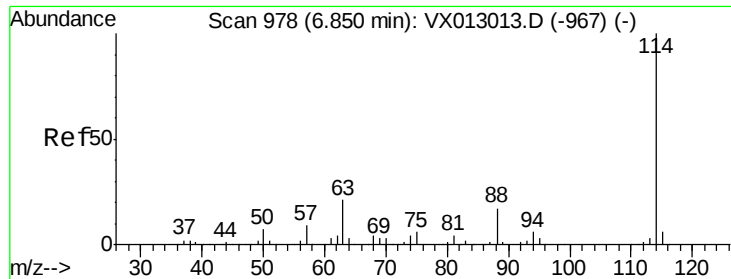
Tot Ion: 56 Resp: 382057
Ion Ratio Lower Upper
56 100
69 31.4 25.2 37.8
84 89.4 71.3 106.9



#33
1,2-Dichloroethane-d4
Concen: 49.121 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Tgt Ion: 65 Resp: 104046
Ion Ratio Lower Upper
65 100
67 53.0 0.0 104.4

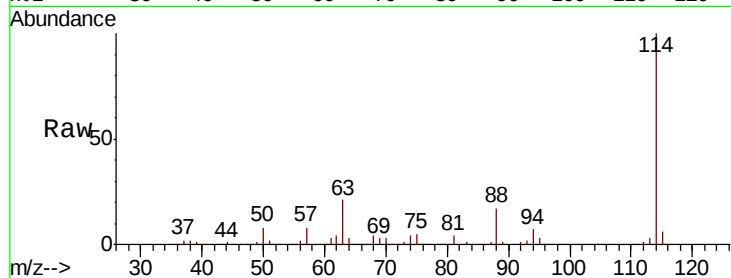




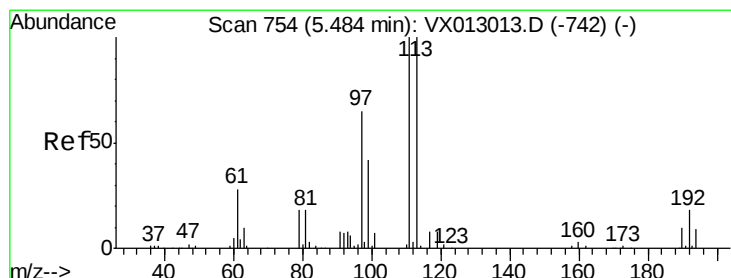
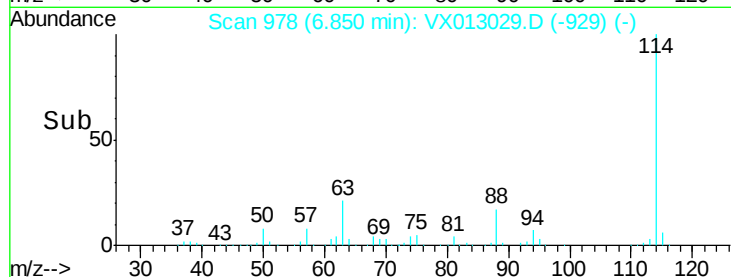
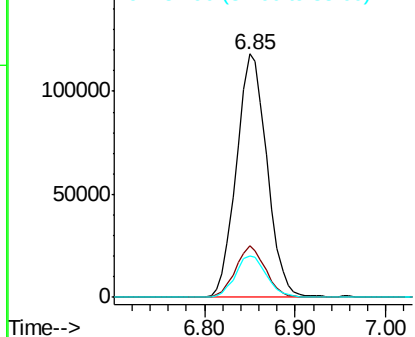
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW3202

Tot Ion:114 Resp: 276895
Ion Ratio Lower Upper
114 100
63 21.1 0.0 40.8
88 17.0 0.0 33.8

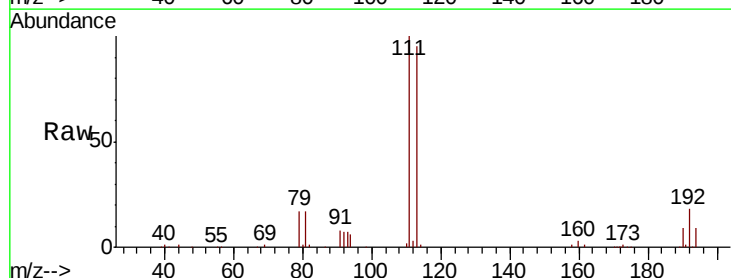


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

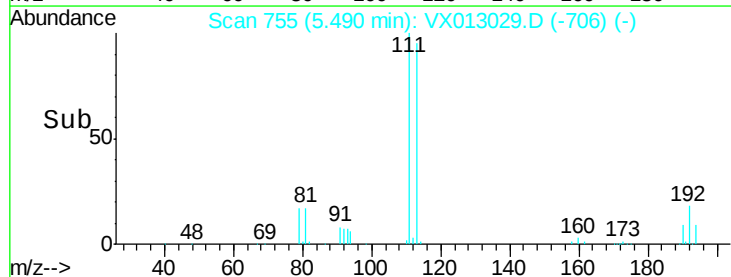
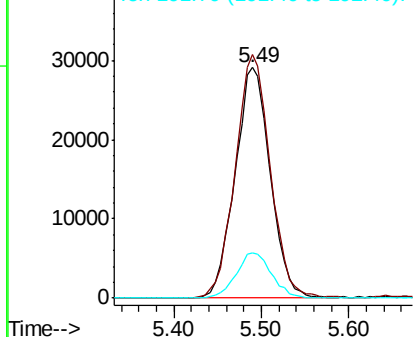


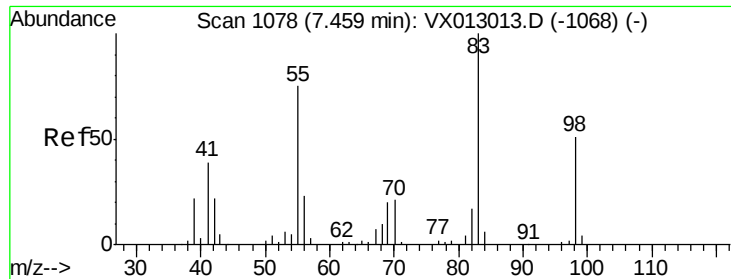
#35
Dibromofluoromethane
Concen: 51.175 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Tgt Ion:113 Resp: 81329
Ion Ratio Lower Upper
113 100
111 104.9 83.2 124.8
192 19.6 15.4 23.2



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

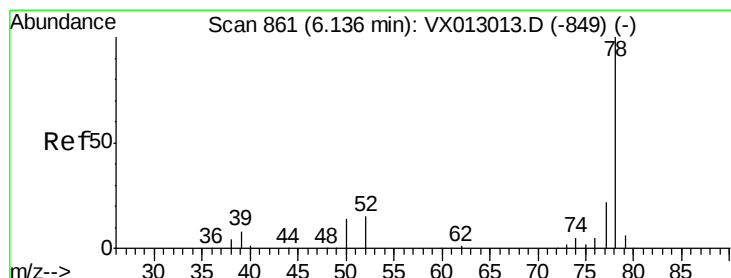
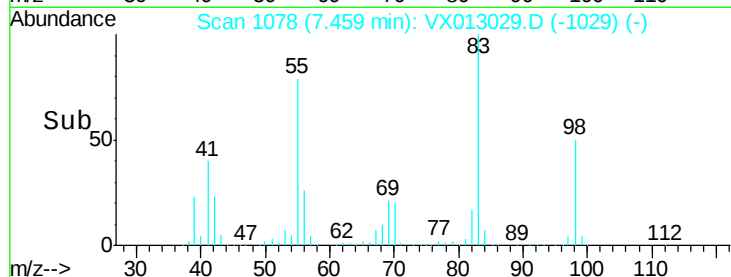
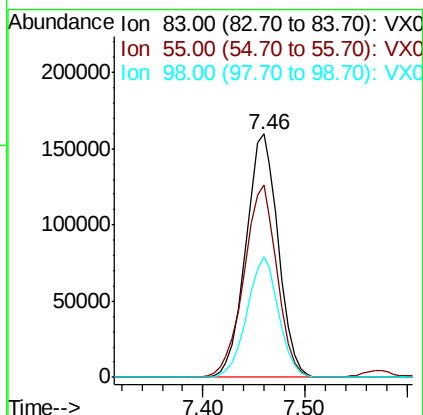
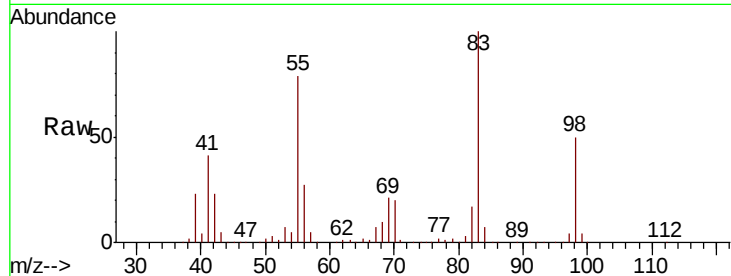




#39
Methvlcvclohexane
Concen: 119.387 ug/l
RT: 7.46 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

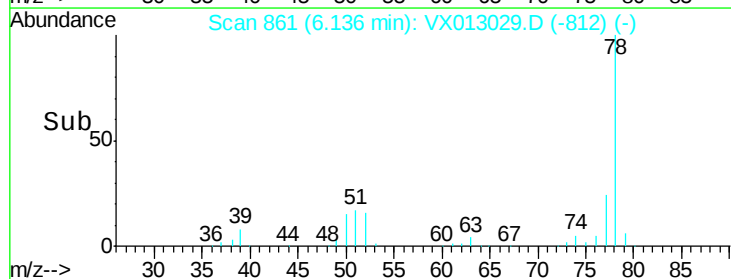
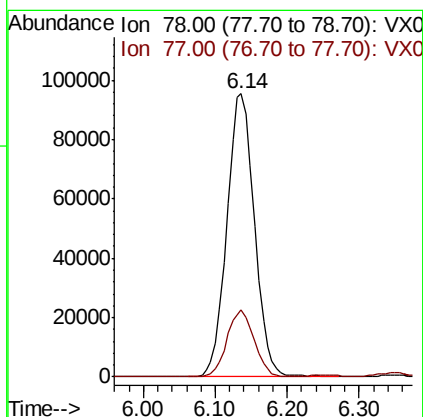
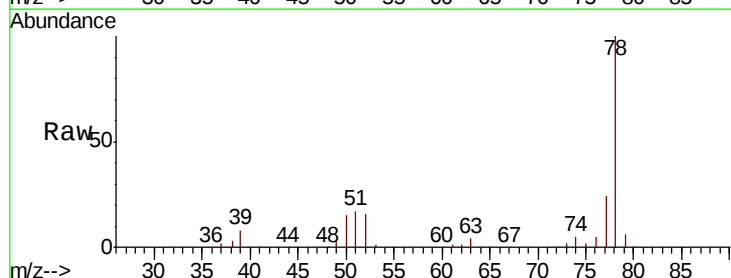
Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW3202

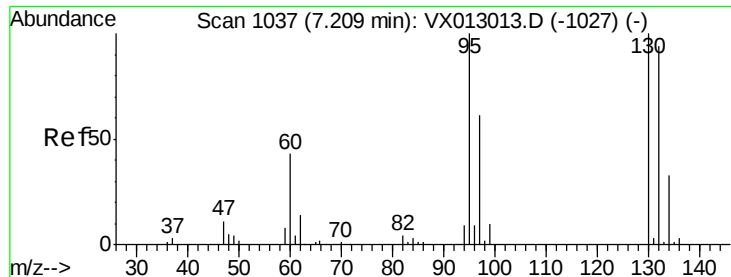
Tot Ion: 83 Resp: 352473
Ion Ratio Lower Upper
83 100
55 78.8 60.2 90.4
98 49.8 38.5 57.7



#40
Benzene
Concen: 35.408 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Tgt Ion: 78 Resp: 254592
Ion Ratio Lower Upper
78 100
77 23.8 19.0 28.4

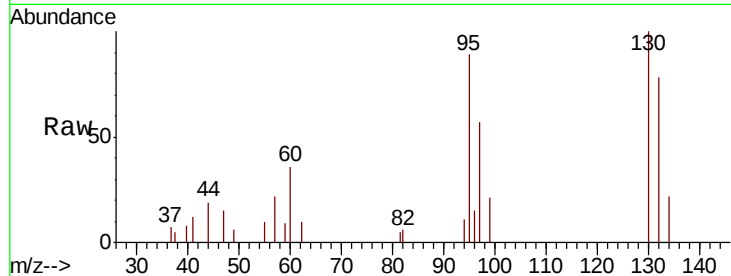




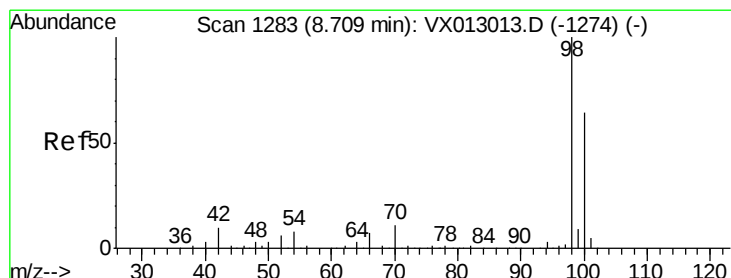
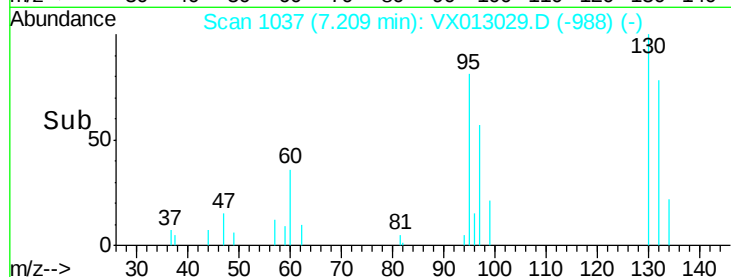
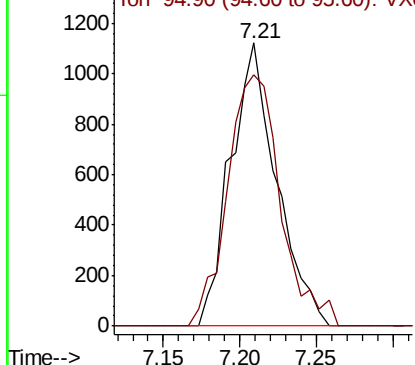
#44
 Trichloroethene
 Concen: 1.177 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: VX013029.D
 Acq: 11 Oct 2019 20:13

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW3202

Tot Ion:130 Resp: 2347
 Ion Ratio Lower Upper
 130 100
 95 88.8 0.0 189.2

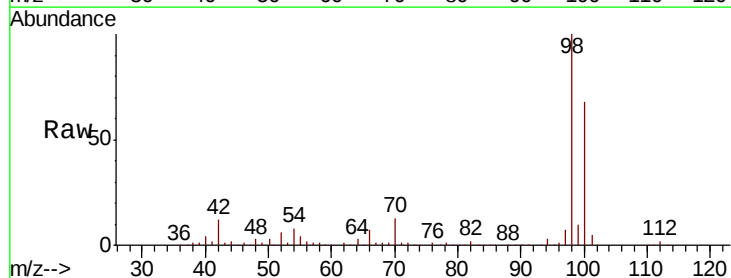


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

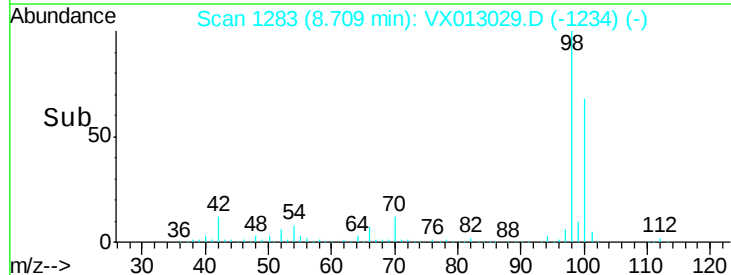
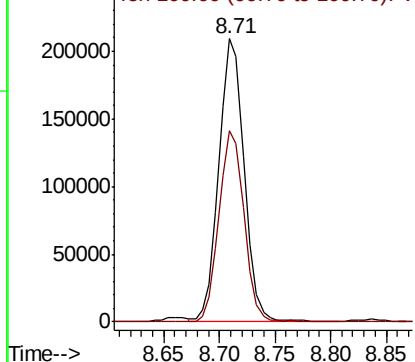


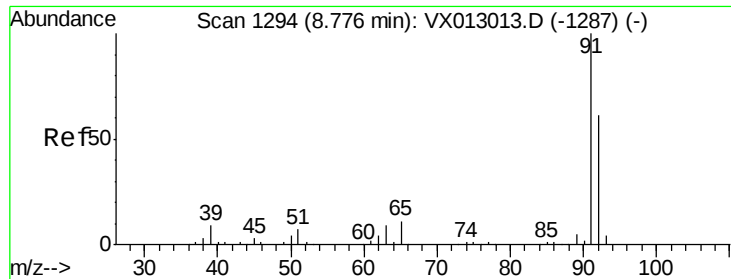
#50
 Toluene-d8
 Concen: 52.817 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VX013029.D
 Acq: 11 Oct 2019 20:13

Tgt Ion: 98 Resp: 327382
 Ion Ratio Lower Upper
 98 100
 100 67.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 19.874 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

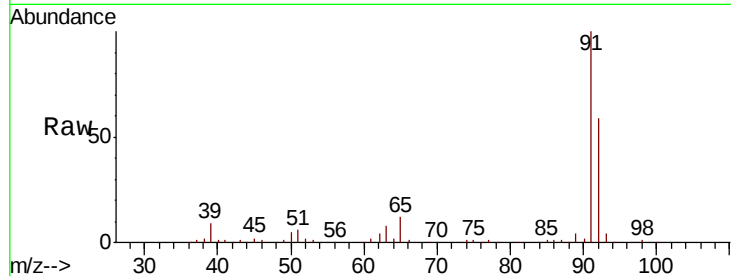
FA19-JMW3202

Tot Ion: 92 Resp: 91421

Ion Ratio Lower Upper

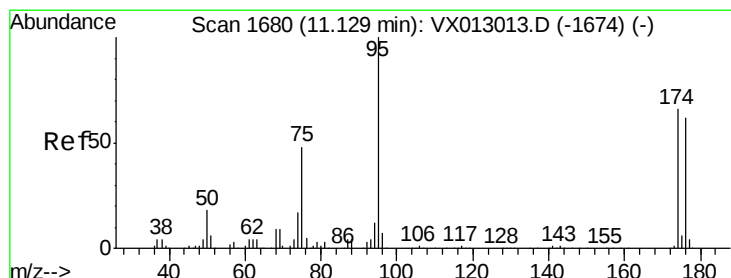
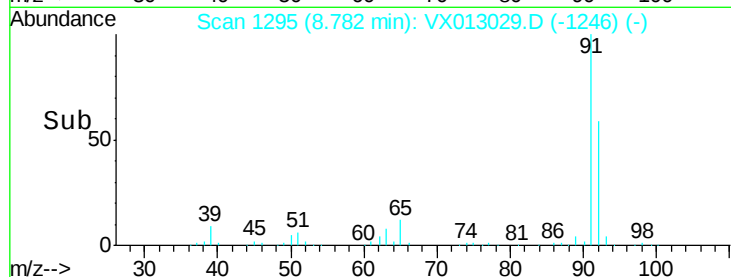
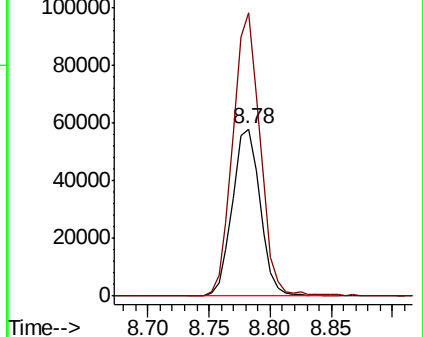
92 100

91 166.4 135.9 203.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.510 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

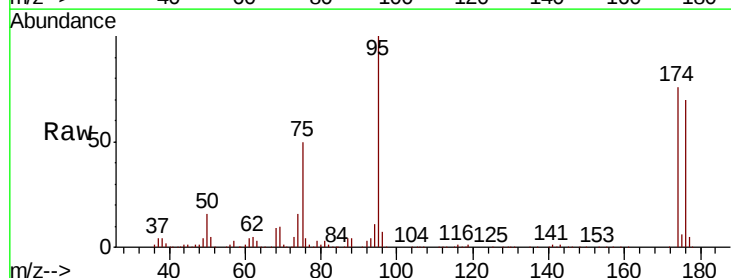
Tgt Ion: 95 Resp: 114425

Ion Ratio Lower Upper

95 100

174 73.3 0.0 143.4

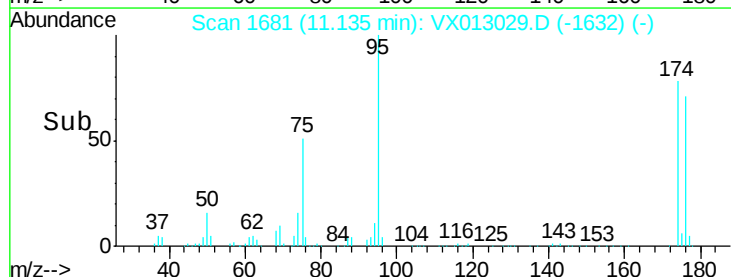
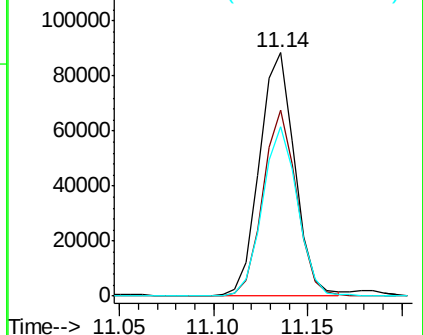
176 69.2 0.0 136.0

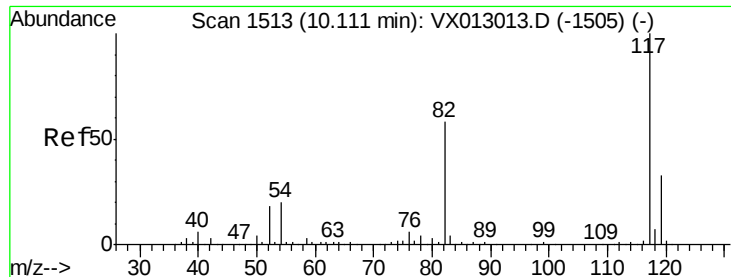


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

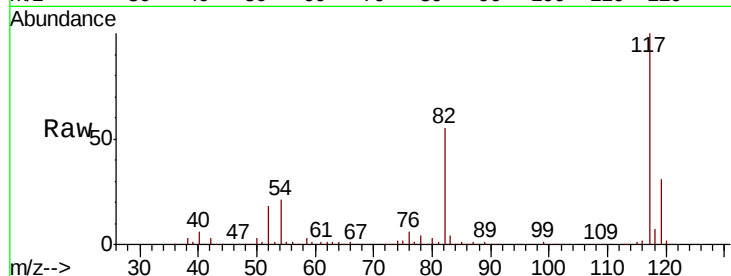




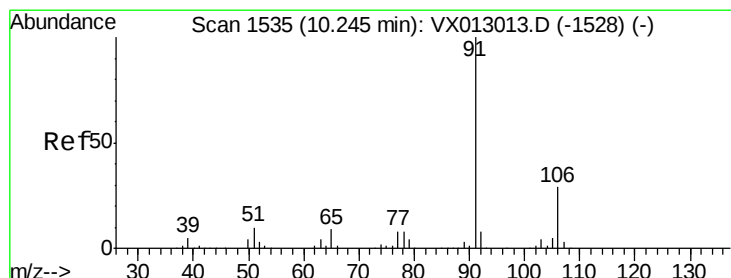
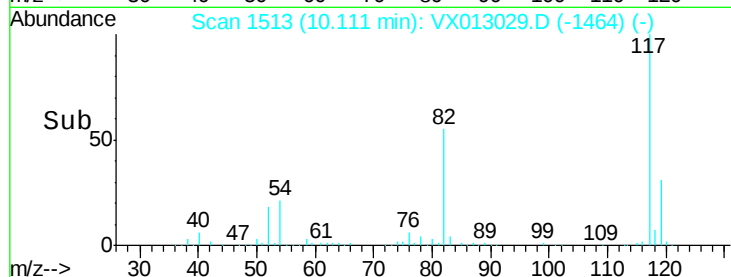
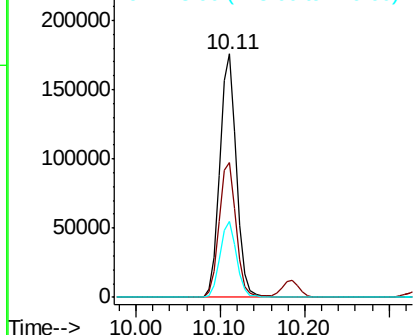
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW3202

Tot Ion:117 Resp: 241314
Ion Ratio Lower Upper
117 100
82 55.2 44.1 66.1
119 31.2 25.8 38.8

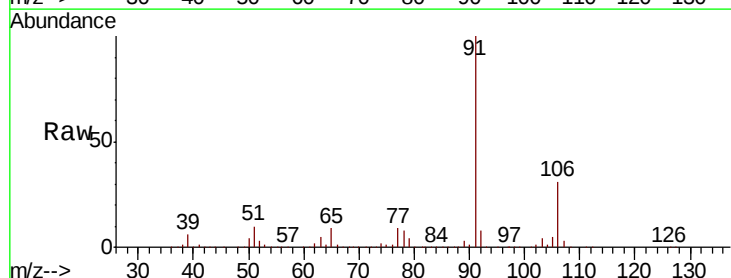


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

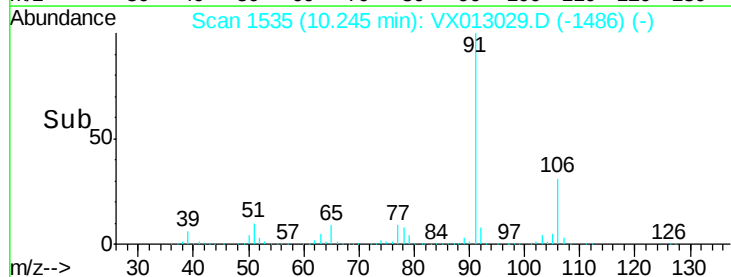
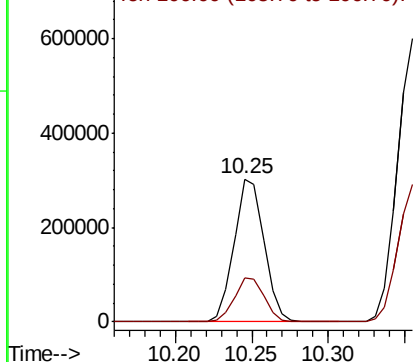


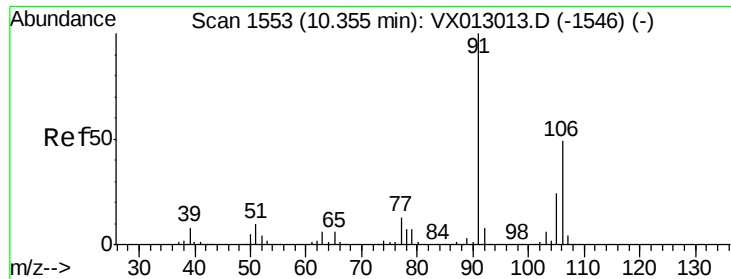
#67
Ethyl Benzene
Concen: 48.479 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Tgt Ion: 91 Resp: 412659
Ion Ratio Lower Upper
91 100
106 30.6 23.9 35.9



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

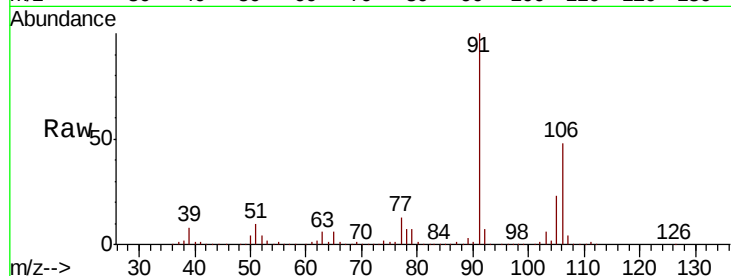




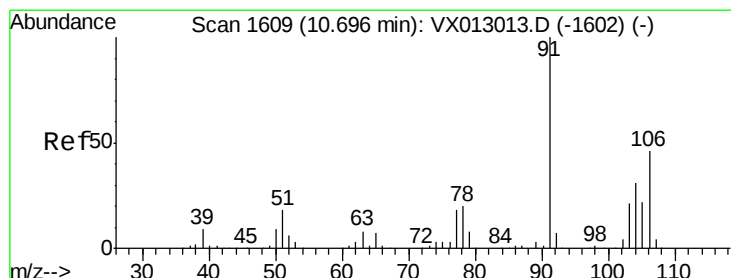
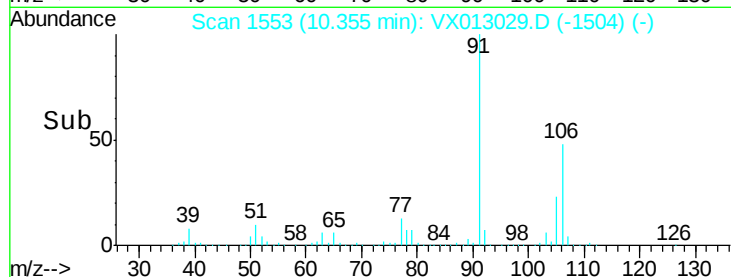
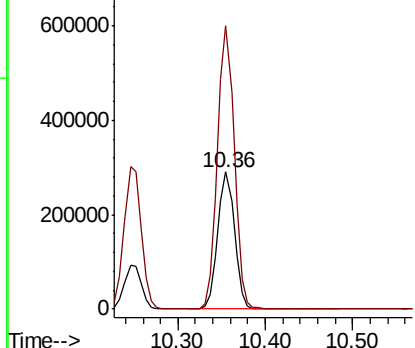
#68
m/p-Xylenes
Concen: 121.804 ug/l
RT: 10.36 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW3202

Tot Ion:106 Resp: 387336
Ion Ratio Lower Upper
106 100
91 205.5 165.3 247.9

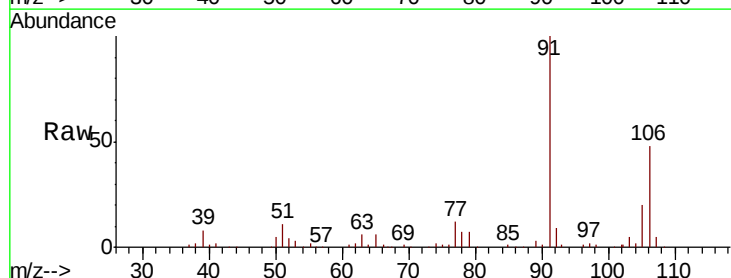


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

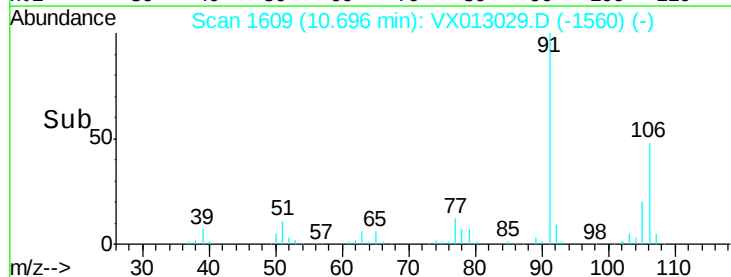
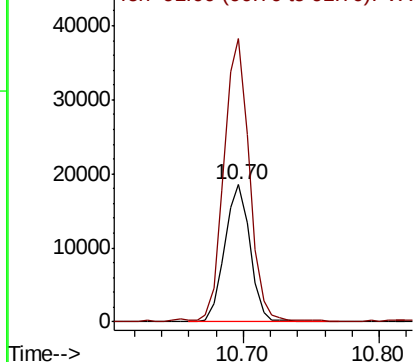


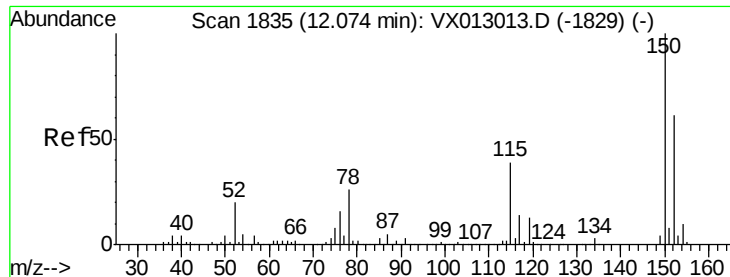
#69
o-Xylene
Concen: 7.729 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX013029.D
Acq: 11 Oct 2019 20:13

Tgt Ion:106 Resp: 23969
Ion Ratio Lower Upper
106 100
91 206.1 109.1 327.3



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: VX013029.D

Acq: 11 Oct 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW3202

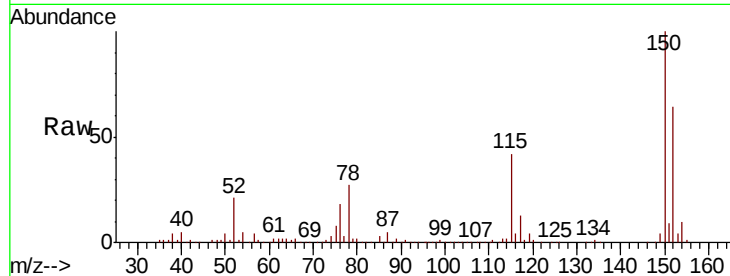
Tot Ion:152 Resp: 103248

Ion Ratio Lower Upper

152 100

115 63.9 44.5 133.5

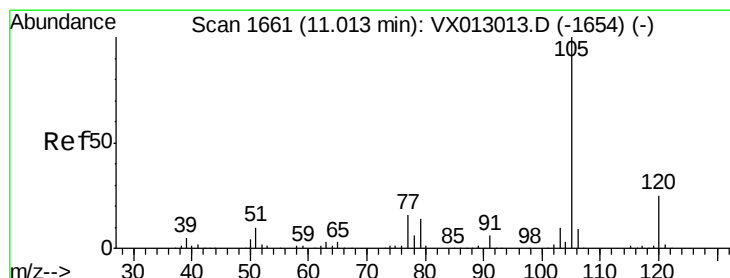
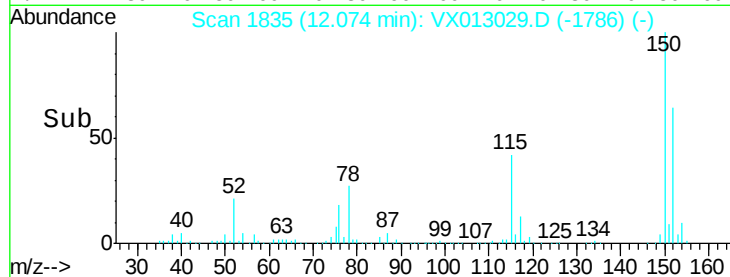
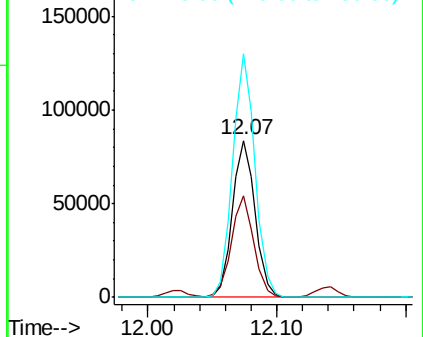
150 152.5 0.0 353.4



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



#73

Isopropylbenzene

Concen: 18.609 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX013029.D

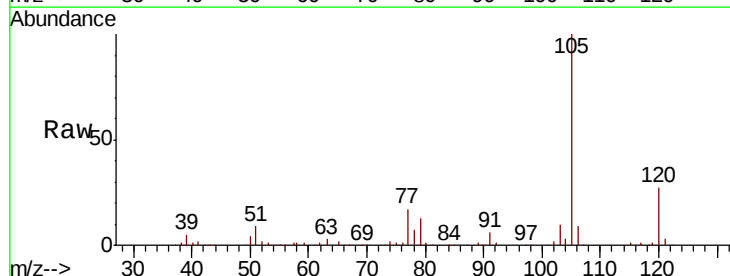
Acq: 11 Oct 2019 20:13

Tgt Ion:105 Resp: 141261

Ion Ratio Lower Upper

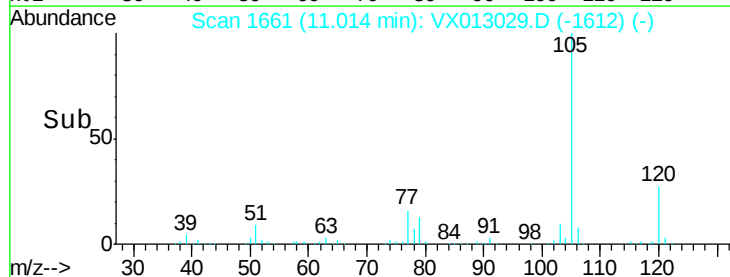
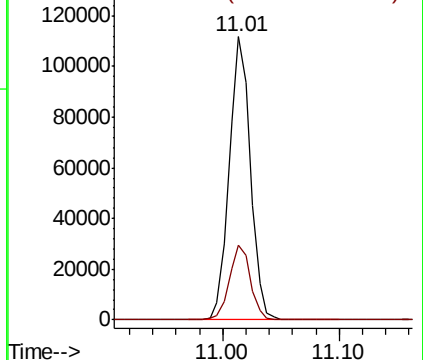
105 100

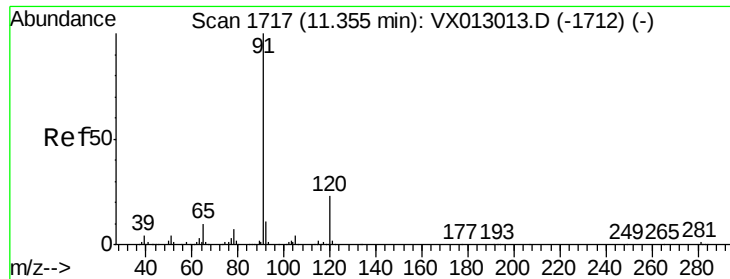
120 26.2 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 22.551 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

Instrument :

MSVOA_X

ClientSampled :

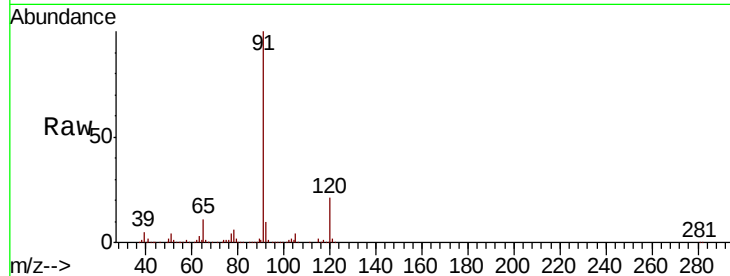
FA19-JMW3202

Tot Ion: 91 Resp: 188369

Ion Ratio Lower Upper

91 100

120 22.0 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.35

150000

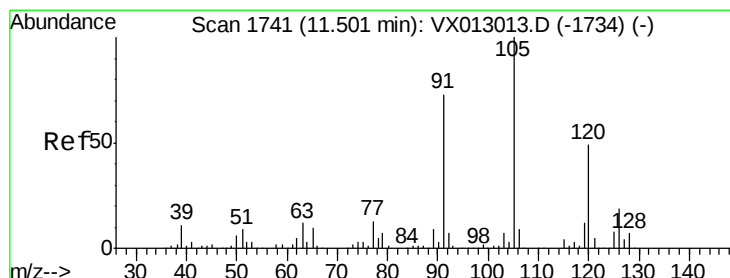
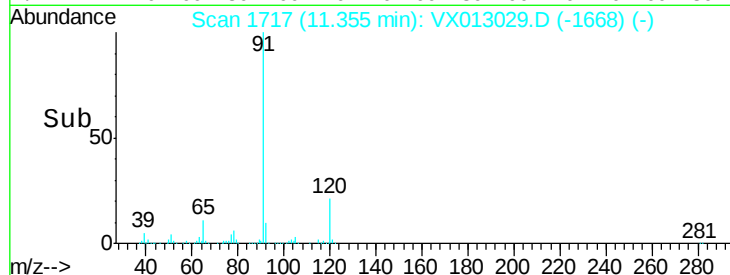
100000

50000

0

11.30 11.35 11.40

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 35.258 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX013029.D

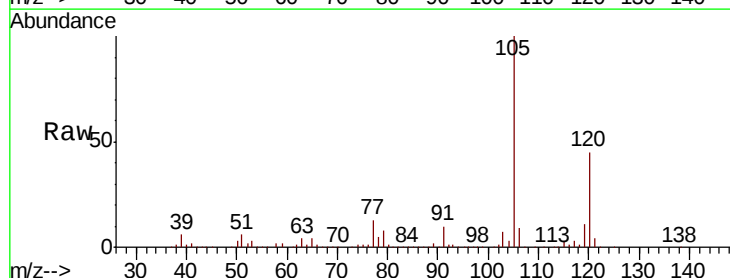
Acq: 11 Oct 2019 20:13

Tgt Ion:105 Resp: 223482

Ion Ratio Lower Upper

105 100

120 46.5 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.50

200000

150000

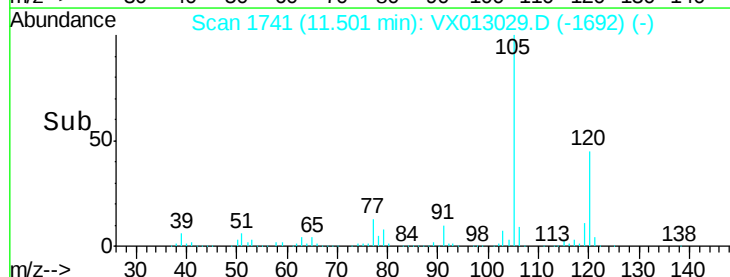
100000

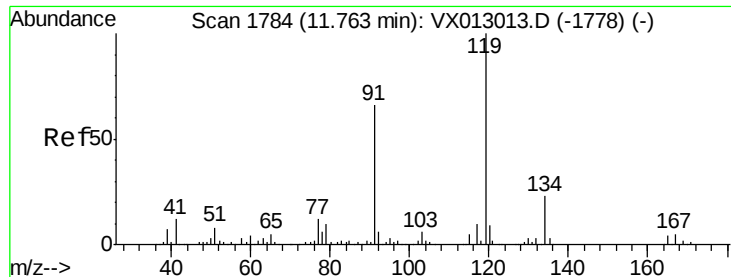
50000

0

11.45 11.50 11.55

Time-->





#83

tert-Butylbenzene

Concen: 0.906 ug/l

RT: 11.77 min Scan# 1785

Delta R.T. 0.01 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW3202

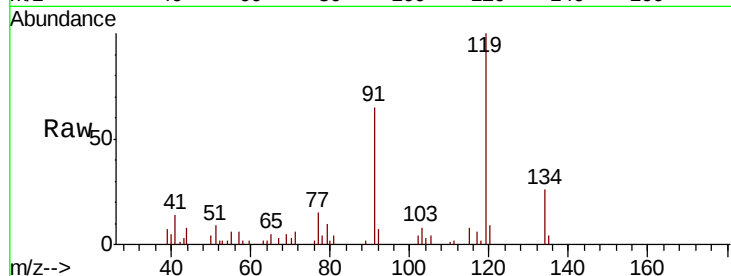
Tot Ion:119 Resp: 5602

Ion Ratio Lower Upper

119 100

91 68.0 29.3 87.9

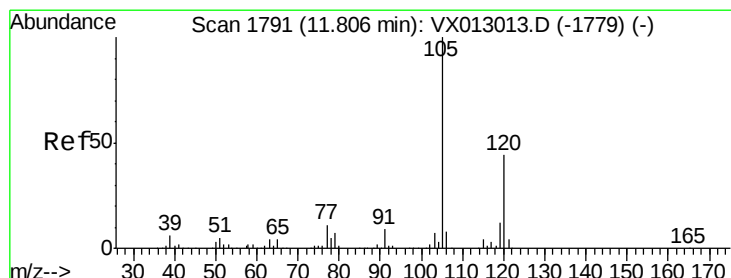
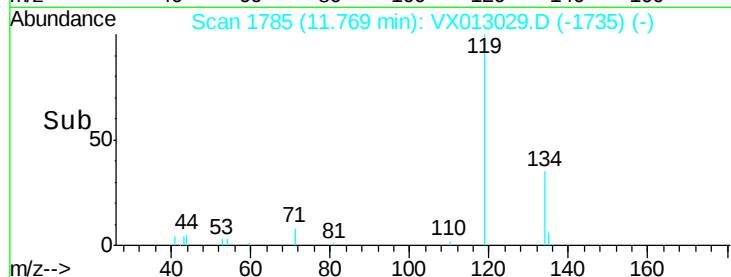
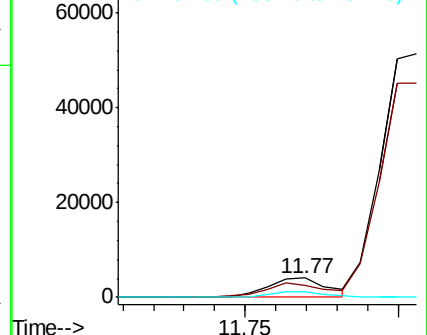
134 24.9 11.5 34.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 83.523 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX013029.D

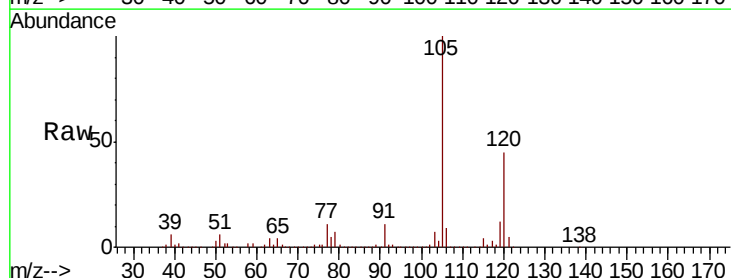
Acq: 11 Oct 2019 20:13

Tgt Ion:105 Resp: 536172

Ion Ratio Lower Upper

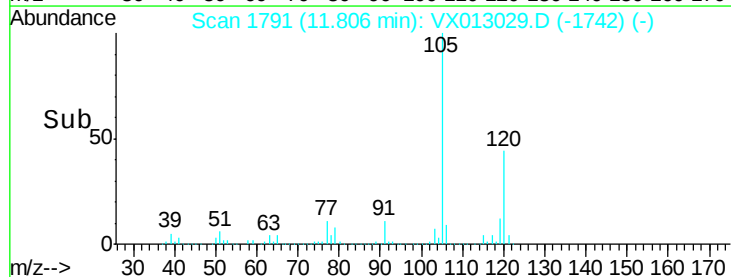
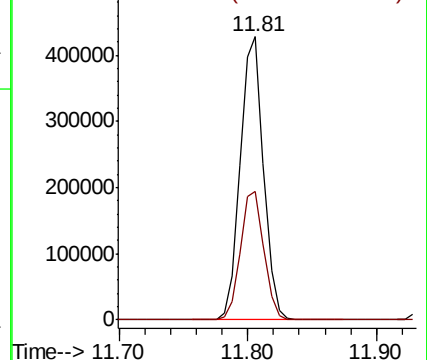
105 100

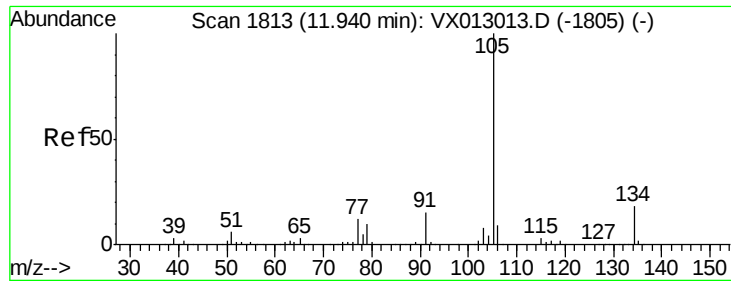
120 46.0 21.8 65.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

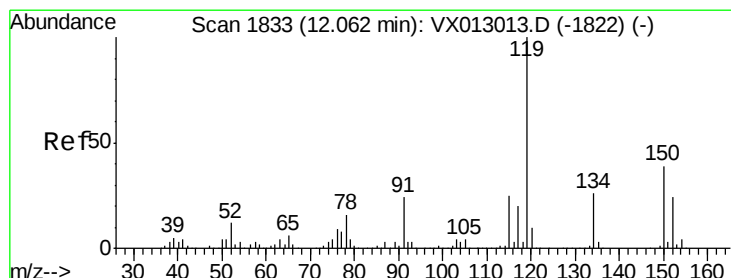
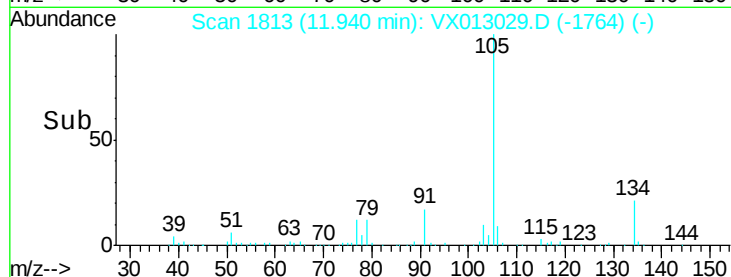
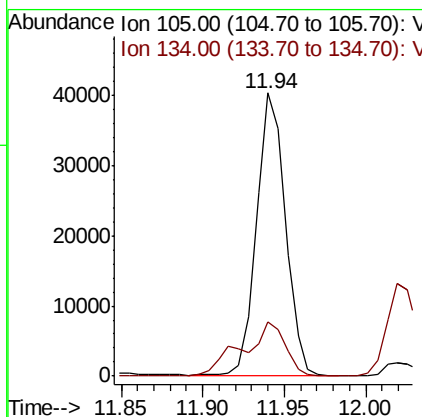
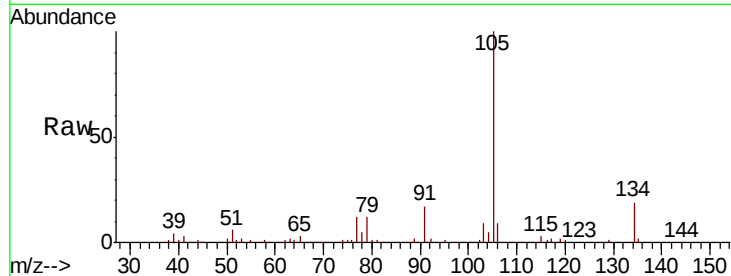




#85
 sec-Butylbenzene
 Concen: 6.955 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VX013029.D
 Acq: 11 Oct 2019 20:13

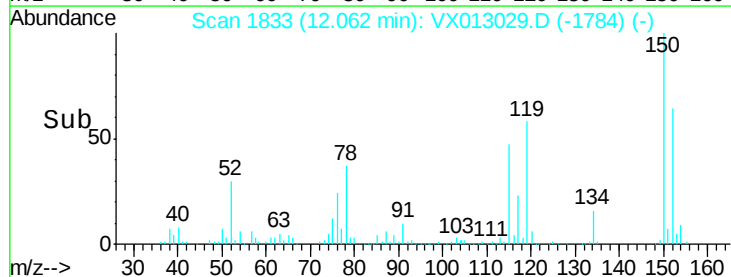
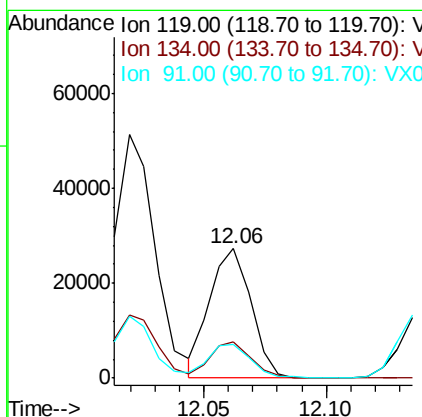
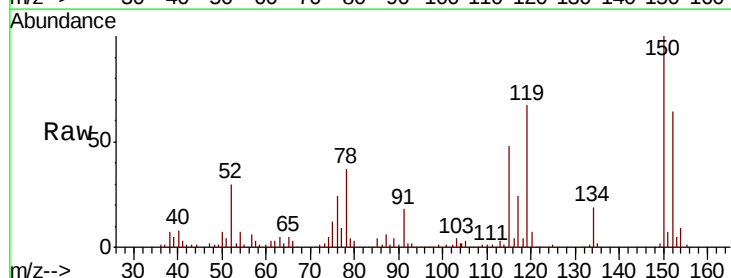
Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW3202

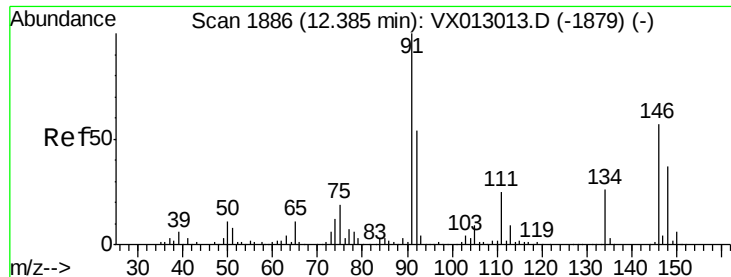
Tot Ion:105 Resp: 49825
 Ion Ratio Lower Upper
 105 100
 134 28.6 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 4.847 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VX013029.D
 Acq: 11 Oct 2019 20:13

Tgt Ion:119 Resp: 32204
 Ion Ratio Lower Upper
 119 100
 134 27.5 12.6 37.8
 91 26.2 12.4 37.4





#89

n-Butylbenzene

Concen: 6.103 ug/l

RT: 12.38 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

Instrument :

MSVOA_X

ClientSampled :

FA19-JMW3202

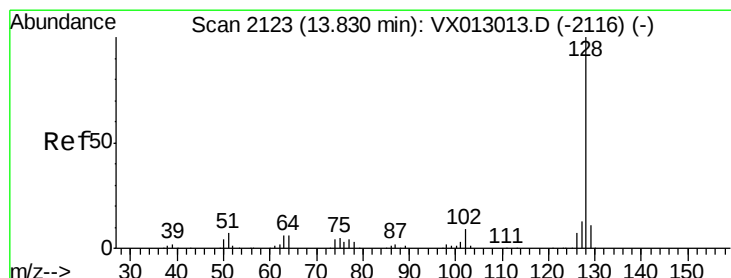
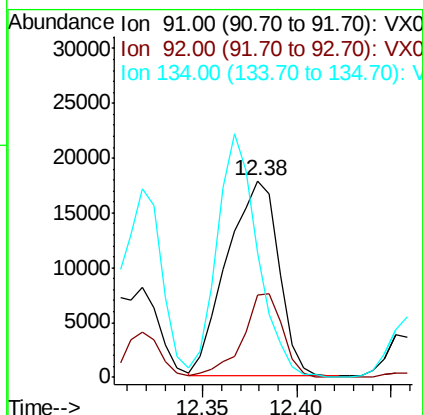
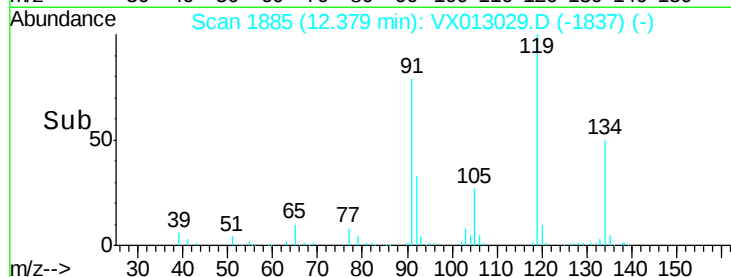
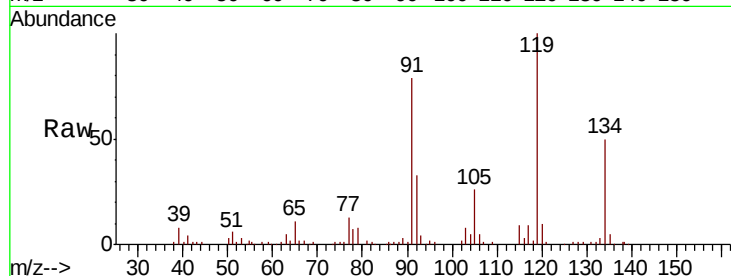
Tot Ion: 91 Resp: 34076

Ion Ratio Lower Upper

91 100

92 33.3 27.5 82.5

134 97.2 12.9 38.7#



#95

Naphthalene

Concen: 9.013 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013029.D

Acq: 11 Oct 2019 20:13

Tgt Ion:128 Resp: 63737

Ion Ratio Lower Upper

128 100

127 13.8 10.2 15.4

129 13.2 8.8 13.2

