

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058255.D
 Acq On : 20 Sep 2019 17:04
 Operator : JC/SP
 Sample : K4975-05DL 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20190917DL

Quant Time: Sep 20 23:51:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	487831	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	800581	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	679043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	269562	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	350702	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
35) Dibromofluoromethane	7.58	113	244591	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
50) Toluene-d8	10.08	98	1004306	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	
62) 4-Bromofluorobenzene	12.41	95	315518	44.79	ug/l	0.00
Spiked Amount			Recovery	=	89.58%	

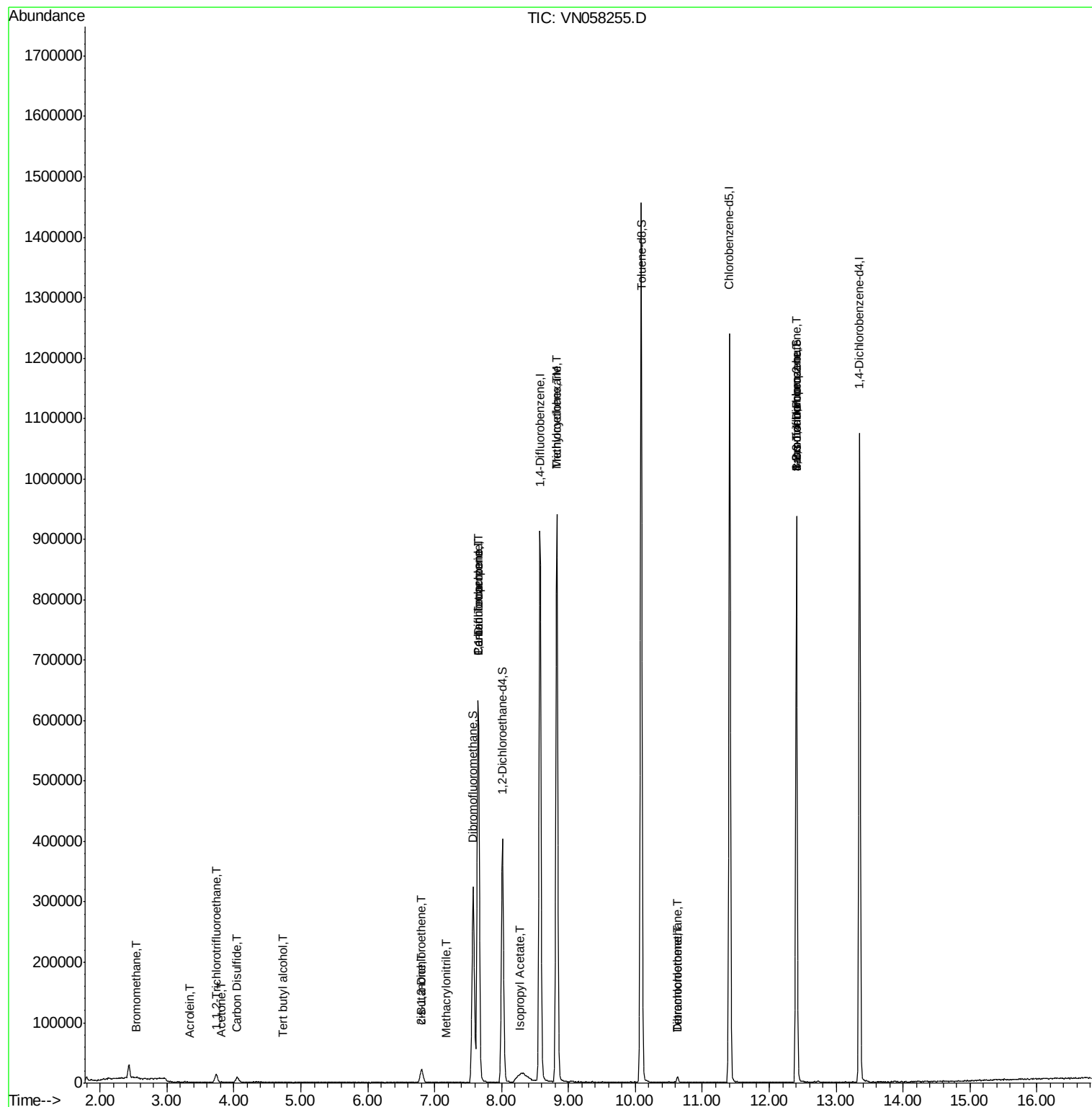
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	513	Below Cal	#	42
5) Bromomethane	2.54	94	111	0.784	ug/l #	65
6) Chloroethane	2.67	64	98	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	7908	2.005	ug/l	95
11) Tert butyl alcohol	4.74	59	578	0.715	ug/l #	71
12) 1,1-Dichloroethene	3.71	96	582	Below Cal	#	73
13) Acrolein	3.34	56	29	0.242	ug/l #	15
16) Acetone	3.81	43	1467	0.636	ug/l #	82
17) Carbon Disulfide	4.04	76	350	0.353	ug/l #	74
20) Methylene Chloride	4.53	84	405	Below Cal	#	39
25) 2-Butanone	6.80	43	969	0.308	ug/l #	51
27) cis-1,2-Dichloroethene	6.81	96	1051	0.212	ug/l	80
31) Cyclohexane	7.65	56	12429	Below Cal	#	13
36) 1,1-Dichloropropene	7.65	75	43488	7.533	ug/l #	46
38) Carbon Tetrachloride	7.65	117	50300	8.667	ug/l #	15
39) Methylcyclohexane	8.82	83	4445	0.866	ug/l #	1
41) Methacrylonitrile	7.16	41	30	0.921	ug/l #	100
43) Isopropyl Acetate	8.26	43	14138	1.263	ug/l #	57
44) Trichloroethene	8.82	130	327427	75.877	ug/l	98
60) Dibromochloromethane	10.63	129	1970	0.418	ug/l #	11
64) Tetrachloroethene	10.63	164	2409	0.728	ug/l #	86
71) Bromoform	12.41	173	759	3.814	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	169865	35.210	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	169865	98.461	ug/l #	5

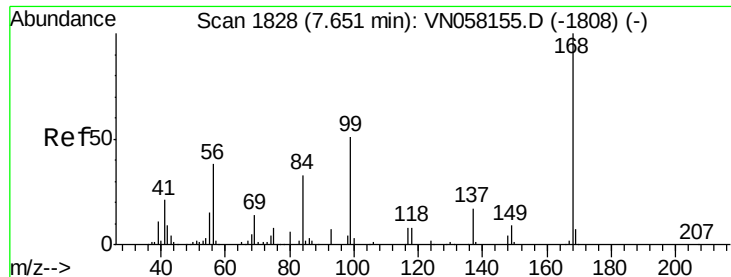
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

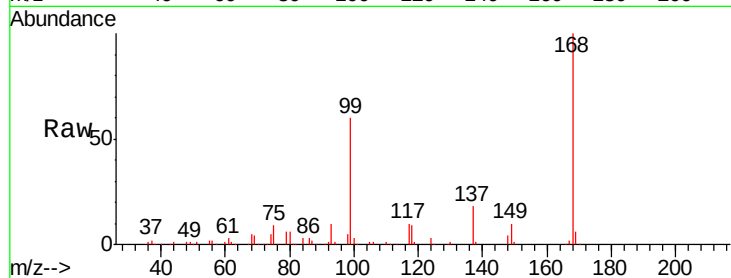
RE120D2-20190917DL

Tgt Ion: 168 Resp: 487831

Ion Ratio Lower Upper

168 100

99 60.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN058155.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058155.D (-1808) (-)

7.65

200000

150000

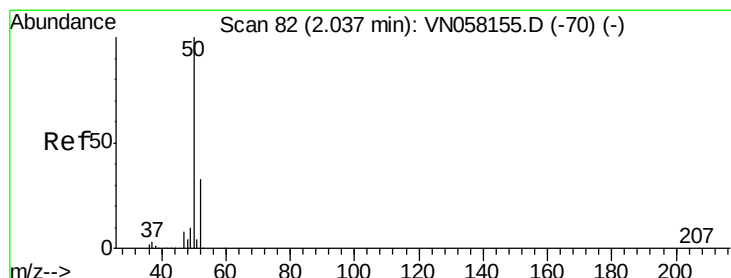
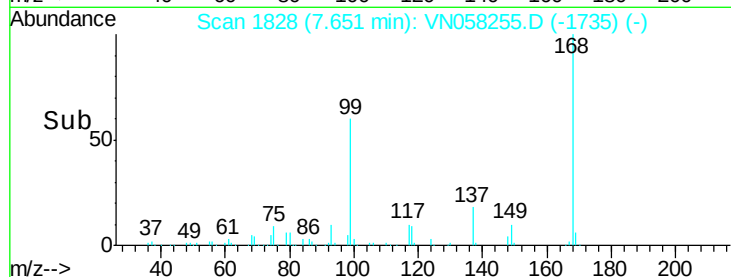
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058255.D

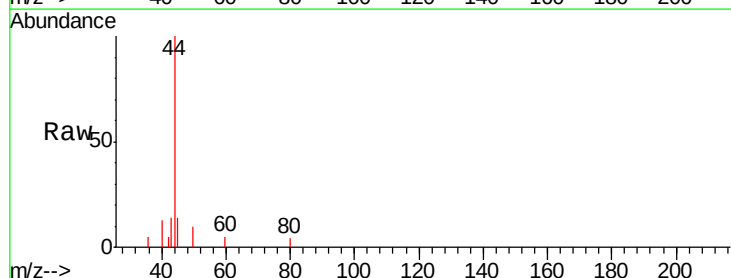
Acq: 20 Sep 2019 17:04

Tgt Ion: 50 Resp: 513

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN058155.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN058155.D (-70) (-)

2.03

400

300

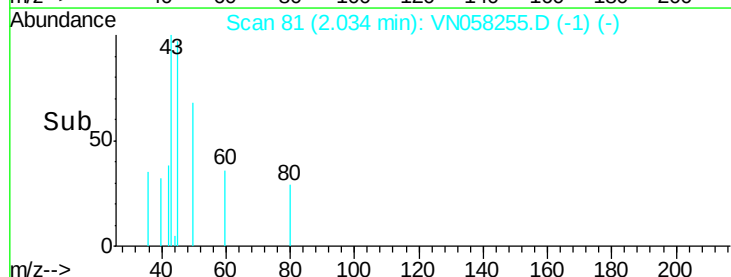
200

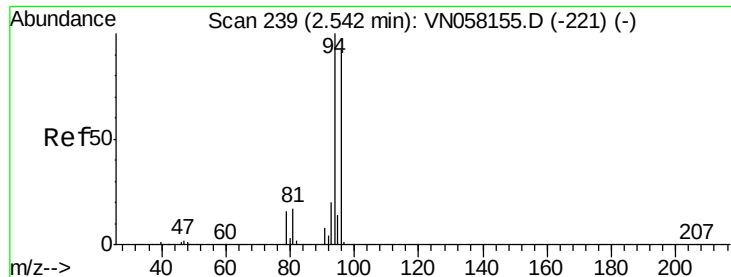
100

0

2.00 2.02 2.04 2.06

Time-->





#5

Bromomethane

Concen: 0.784 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

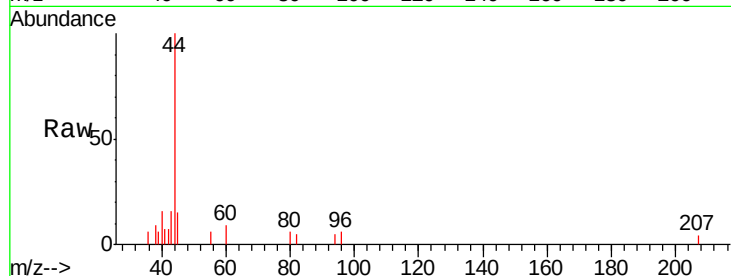
RE120D2-20190917DL

Tgt Ion: 94 Resp: 111

Ion Ratio Lower Upper

94 100

96 124.8 73.3 109.9#



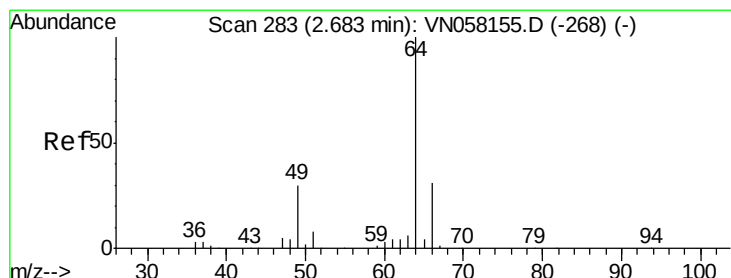
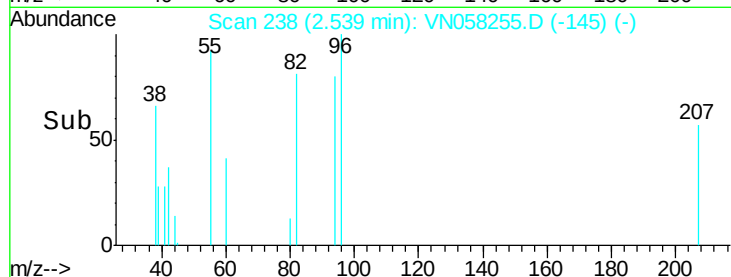
Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

2.55

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 2.67 min Scan# 280

Delta R.T. -0.01 min

Lab File: VN058255.D

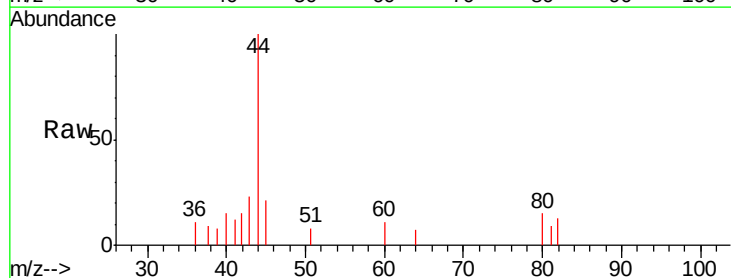
Acq: 20 Sep 2019 17:04

Tgt Ion: 64 Resp: 98

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



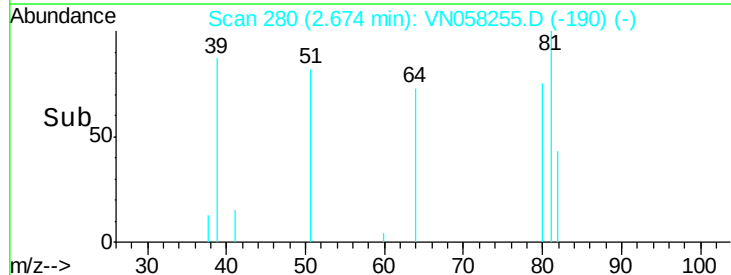
Abundance Ion 63.90 (63.60 to 64.60): VN0

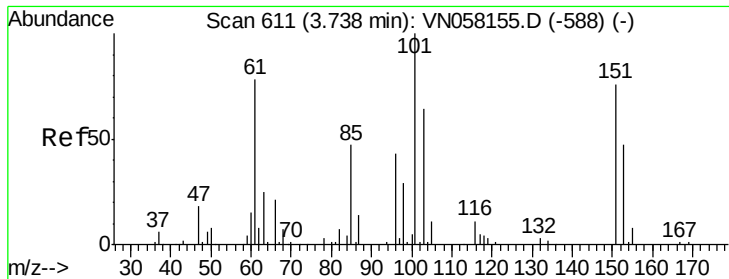
Ion 65.90 (65.60 to 66.60): VN0

2.67

2.68

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.005 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20190917DL

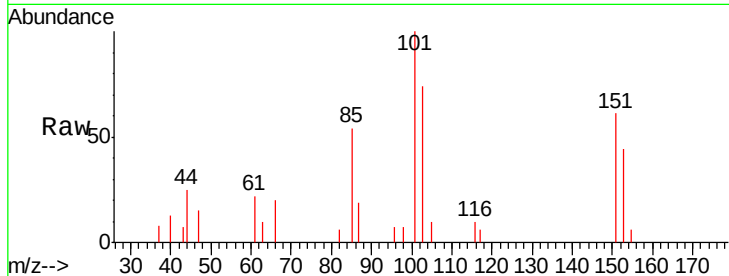
Tgt Ion: 101 Resp: 7908

Ion Ratio Lower Upper

101 100

85 47.8 37.3 55.9

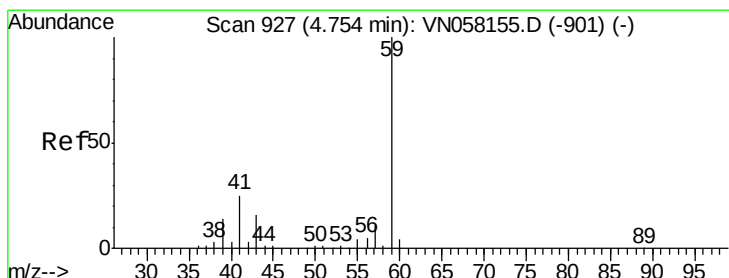
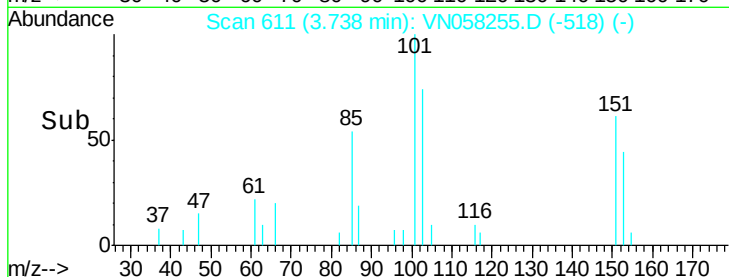
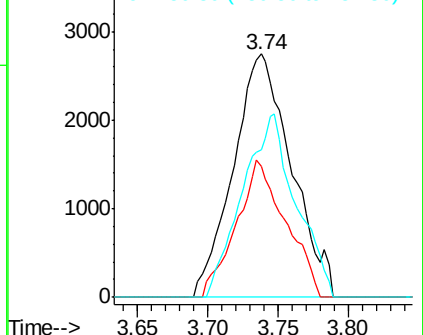
151 69.2 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.715 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.02 min

Lab File: VN058255.D

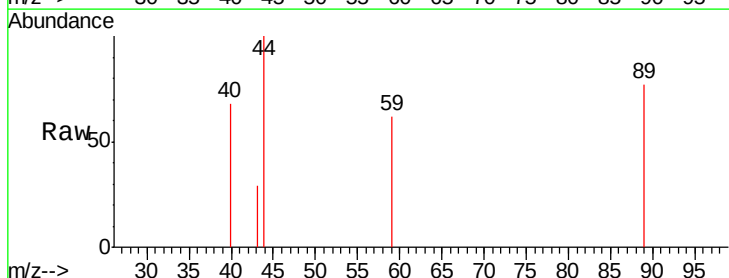
Acq: 20 Sep 2019 17:04

Tgt Ion: 59 Resp: 578

Ion Ratio Lower Upper

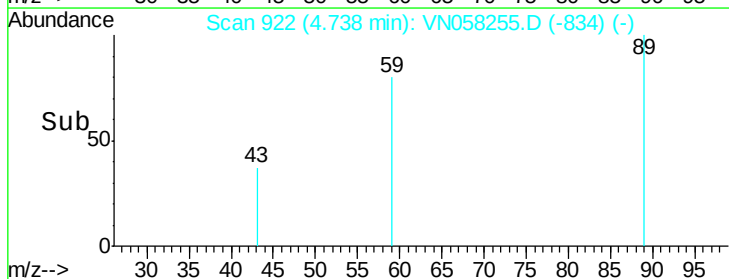
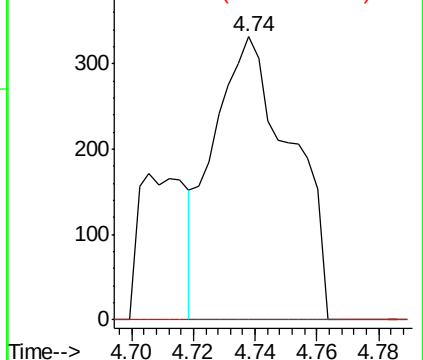
59 100

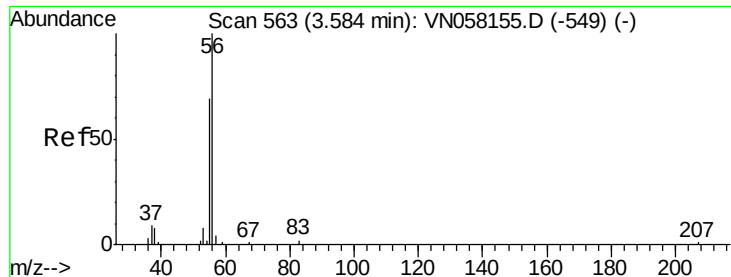
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.242 ug/l

RT: 3.34 min Scan# 486

Delta R.T. -0.25 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

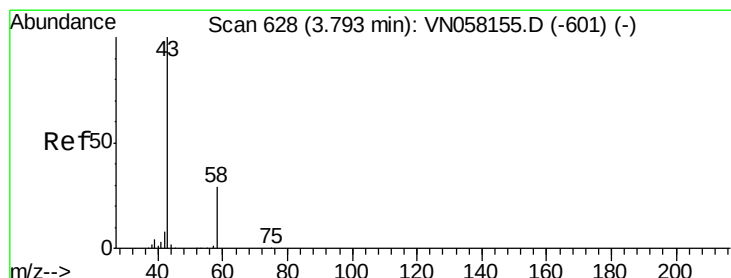
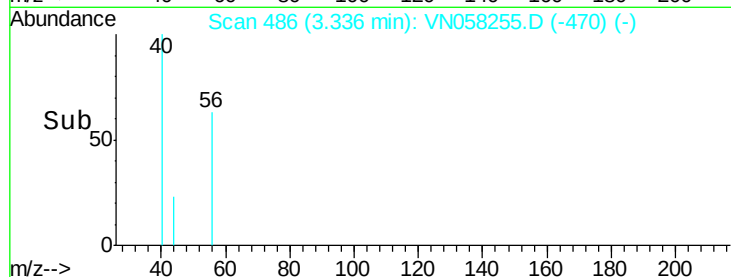
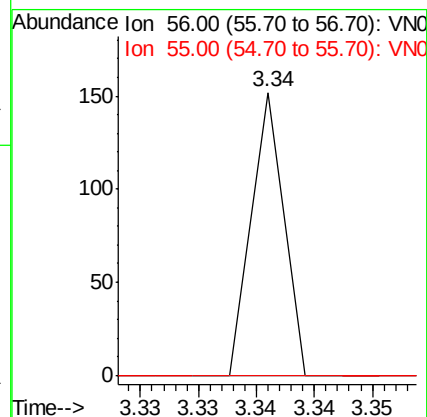
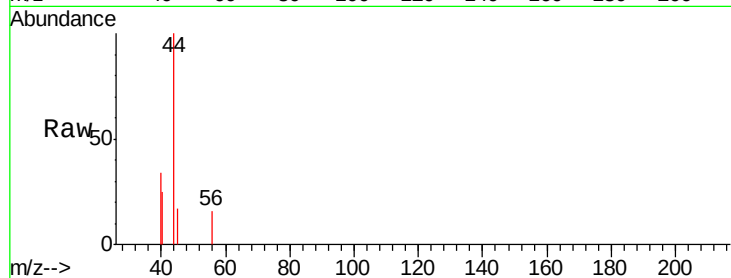
RE120D2-20190917DL

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 0.0 56.1 84.1#



#16

Acetone

Concen: 0.636 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN058255.D

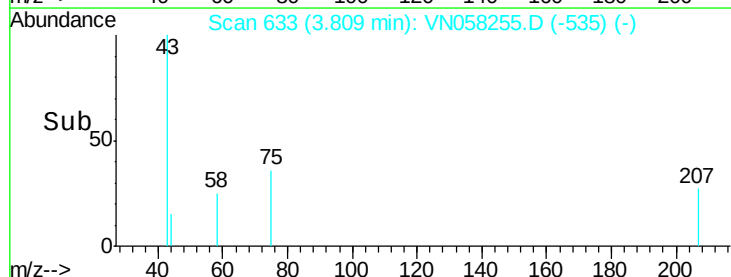
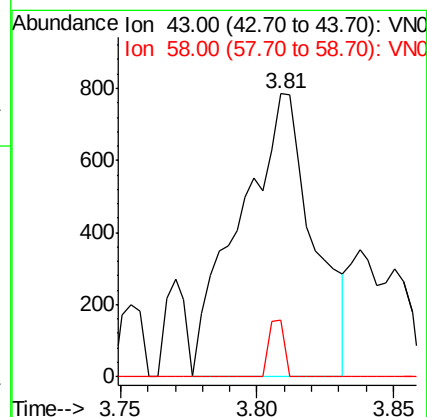
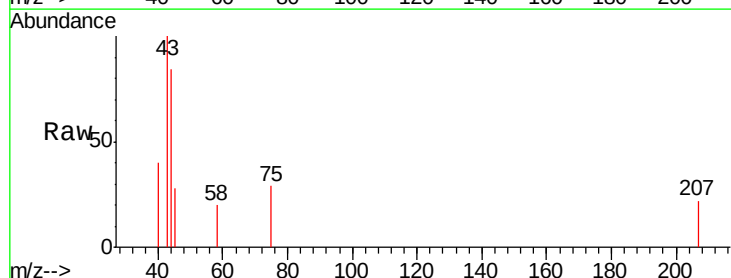
Acq: 20 Sep 2019 17:04

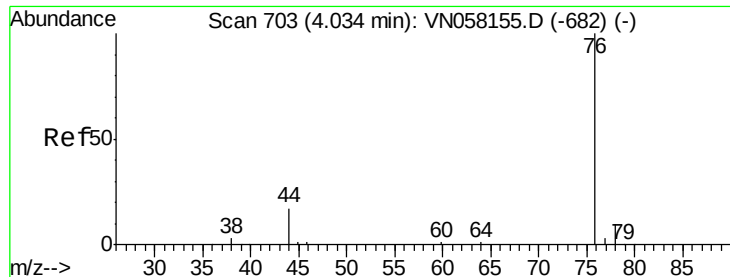
Tgt Ion: 43 Resp: 1467

Ion Ratio Lower Upper

43 100

58 19.9 23.4 35.2#





#17

Carbon Disulfide

Concen: 0.353 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

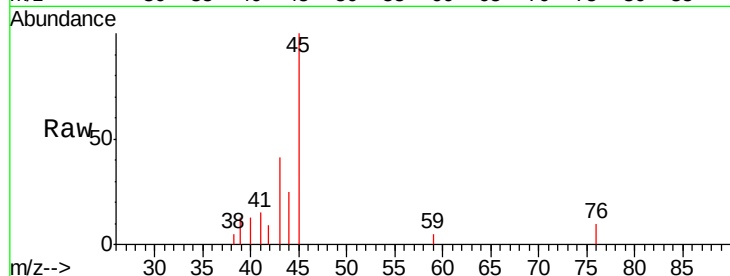
RE120D2-20190917DL

Tgt Ion: 76 Resp: 350

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

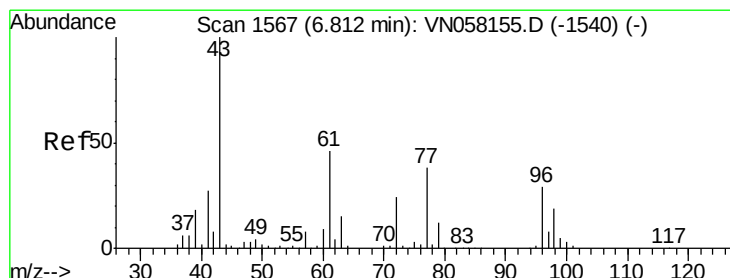
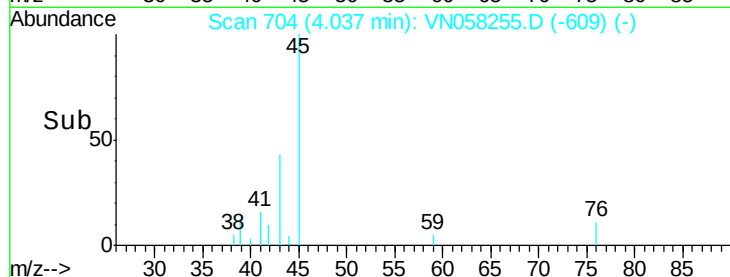
300

200

100

0

Time-->



#25

2-Butanone

Concen: 0.308 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN058255.D

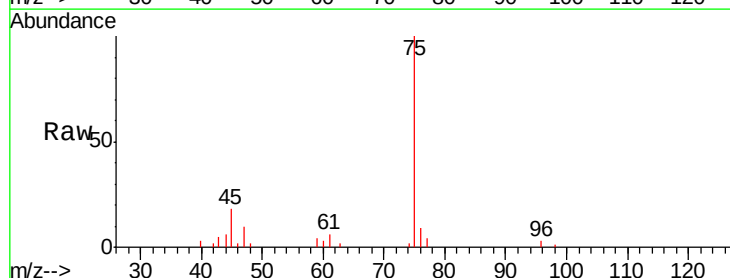
Acq: 20 Sep 2019 17:04

Tgt Ion: 43 Resp: 969

Ion Ratio Lower Upper

43 100

72 0.0 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.80

500

400

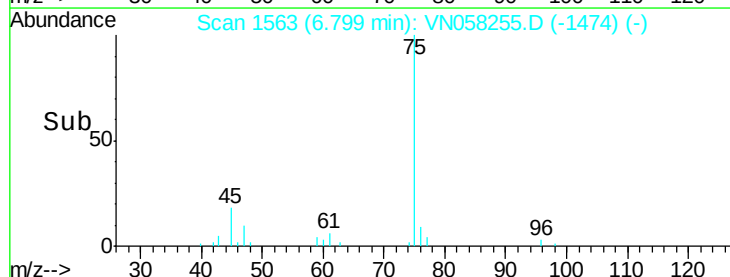
300

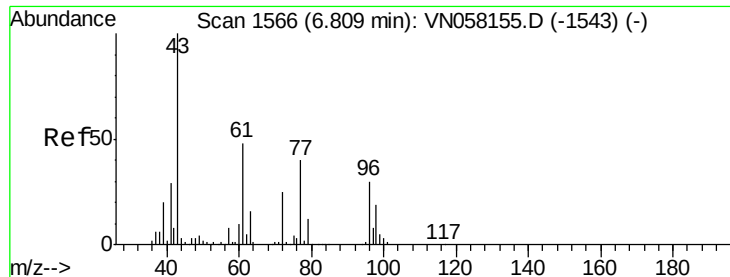
200

100

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 0.212 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

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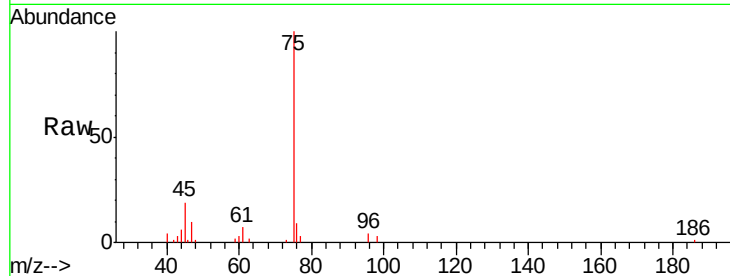
Tgt Ion: 96 Resp: 1051

Ion Ratio Lower Upper

96 100

61 122.8 0.0 319.0

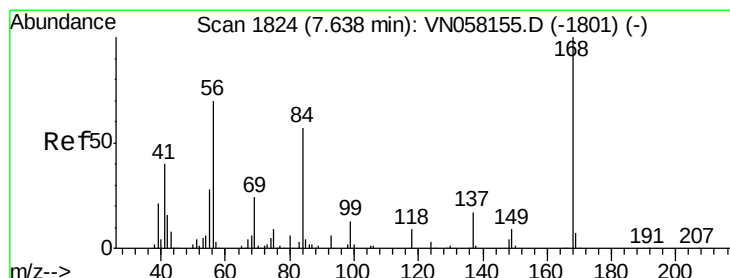
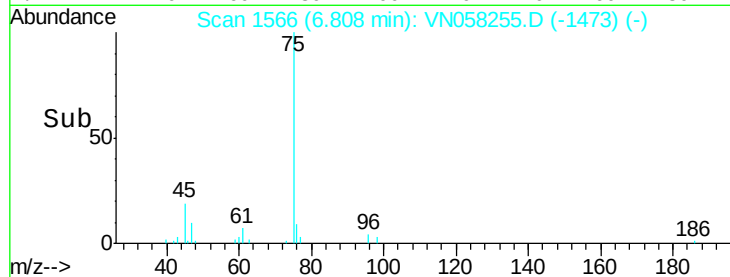
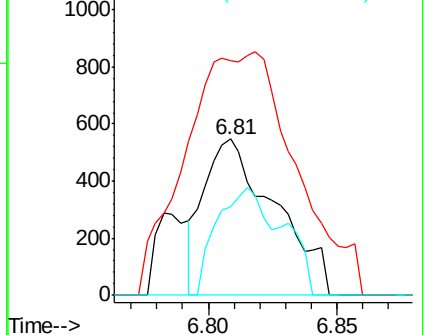
98 63.5 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

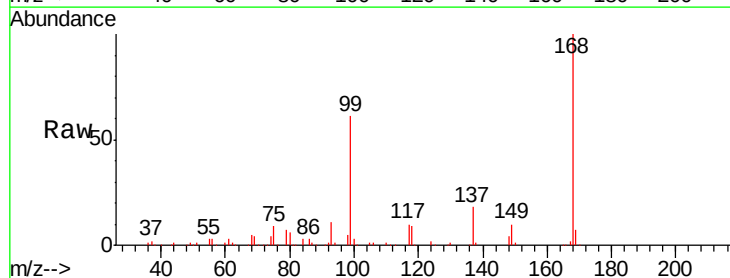
Tgt Ion: 56 Resp: 12429

Ion Ratio Lower Upper

56 100

69 156.9 27.3 40.9#

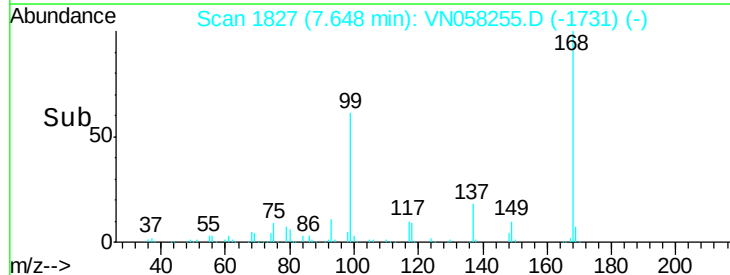
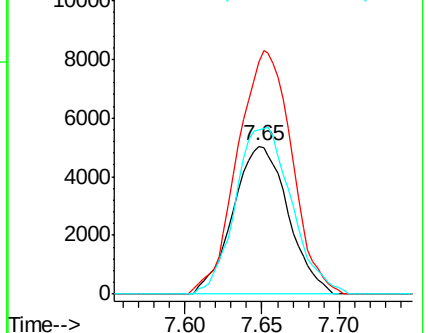
84 110.9 65.0 97.4#

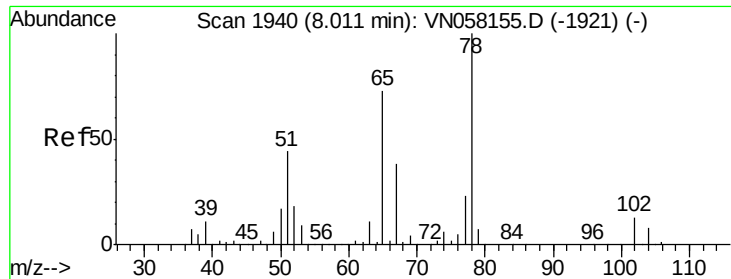


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

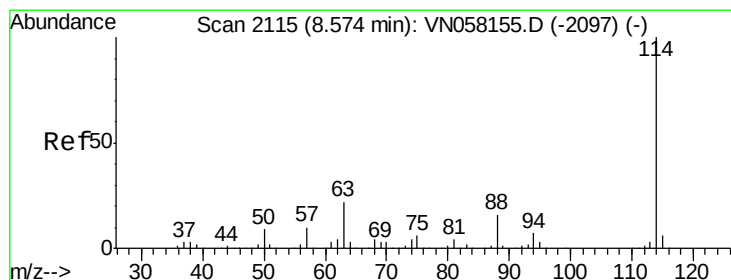
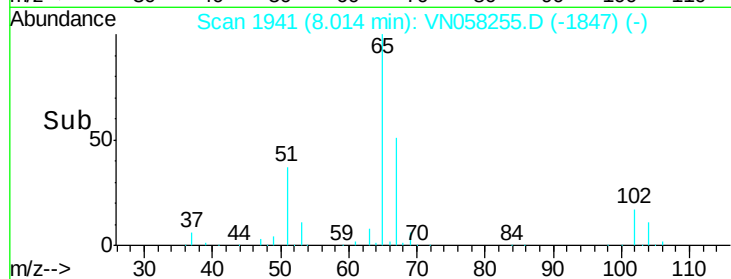
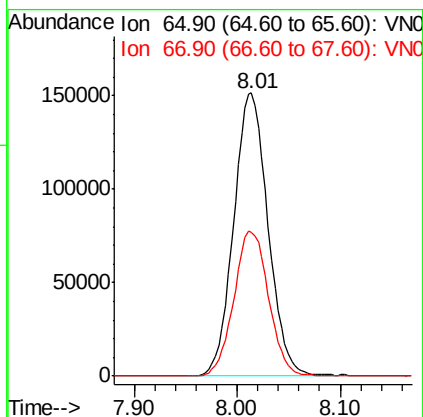
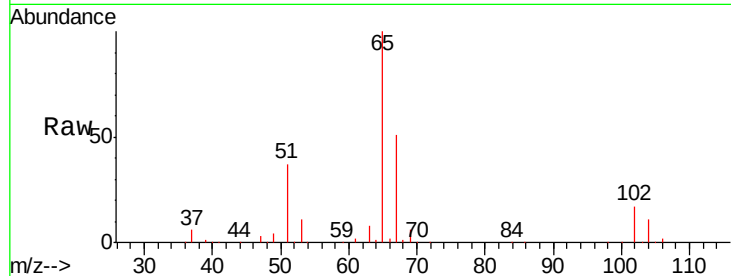




#33
 1,2-Dichloroethane-d4
 Concen: 51.615 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058255.D
 Acq: 20 Sep 2019 17:04

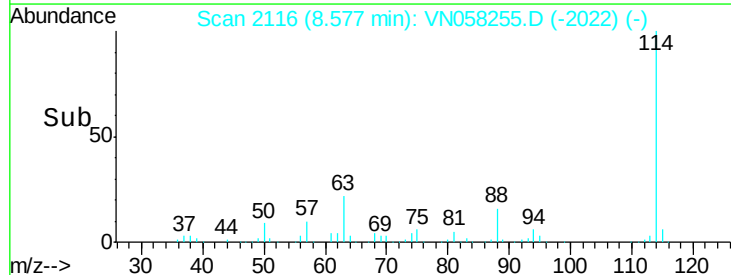
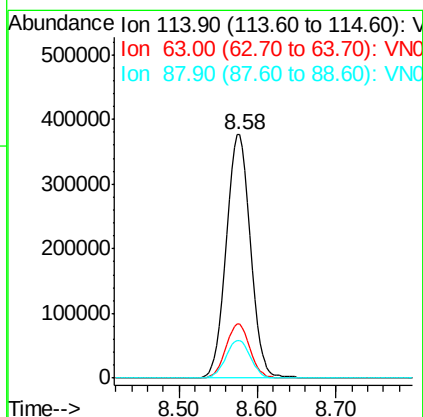
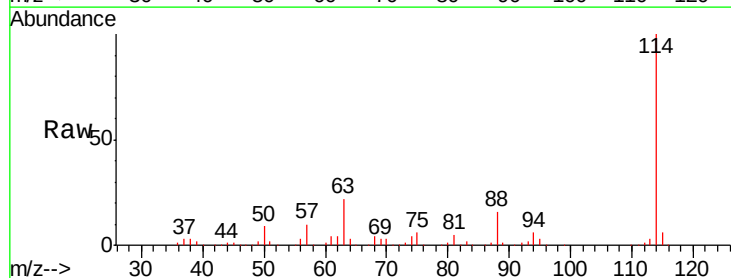
Instrument :
 MSVOA_N
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 RE120D2-20190917DL

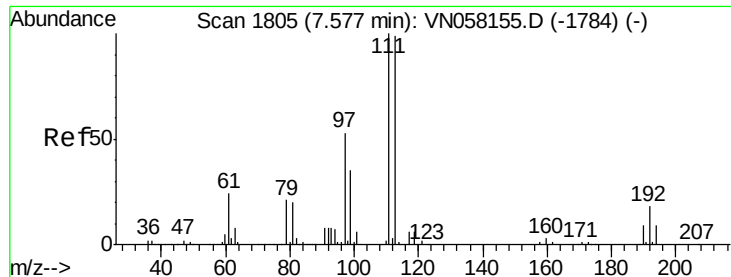
Tgt Ion: 65 Resp: 350702
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058255.D
 Acq: 20 Sep 2019 17:04

Tgt Ion: 114 Resp: 800581
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.2
 88 15.7 0.0 31.6

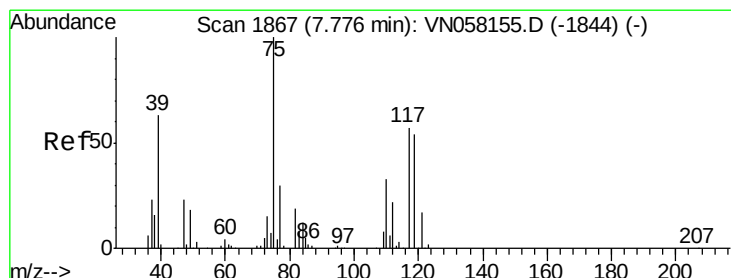
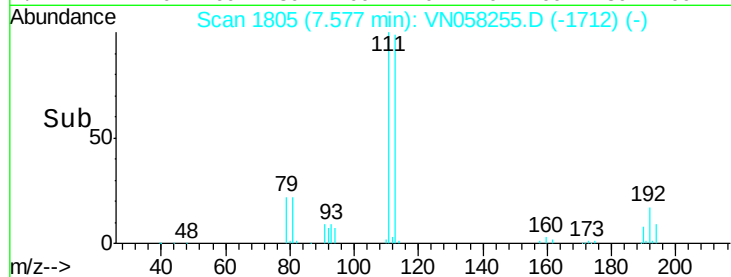
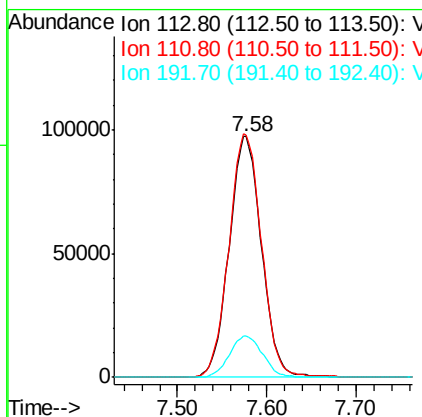
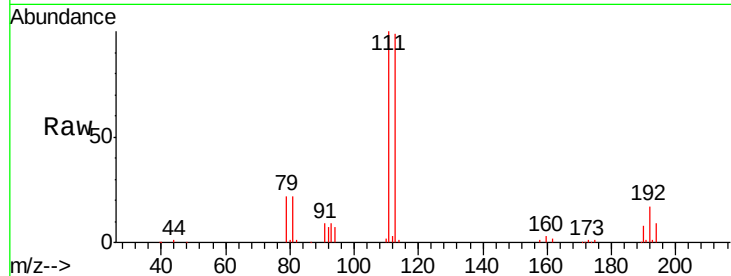




#35
 Dibromofluoromethane
 Concen: 50.256 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058255.D
 Acq: 20 Sep 2019 17:04

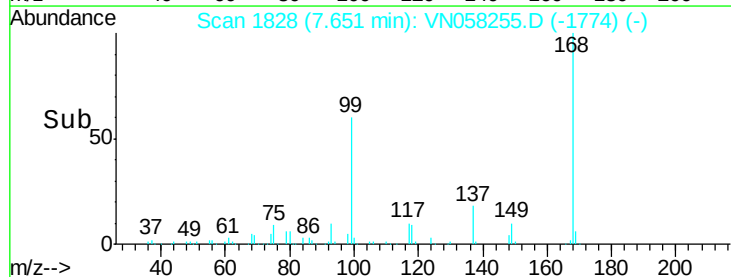
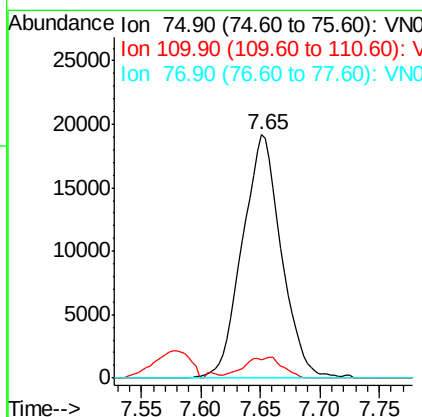
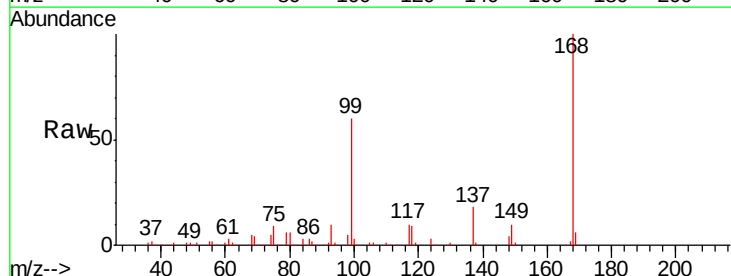
Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20190917DL

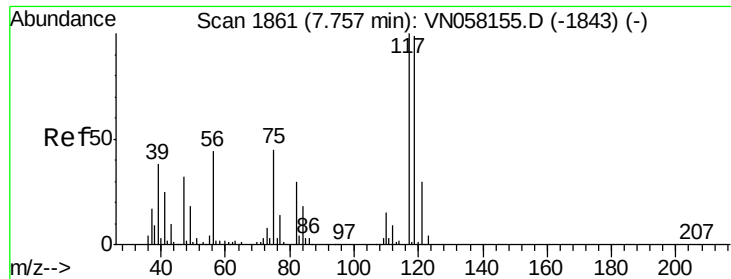
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.8	122.6
192	17.6	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.533 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058255.D
 Acq: 20 Sep 2019 17:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.2	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.667 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20190917DL

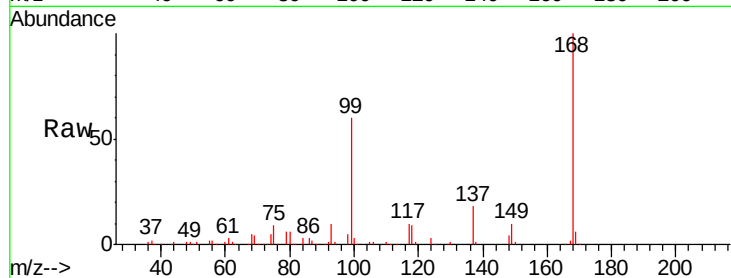
Tgt Ion:117 Resp: 50300

Ion Ratio Lower Upper

117 100

119 4.9 78.6 117.8#

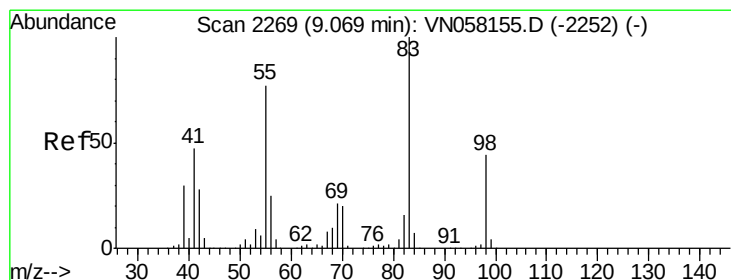
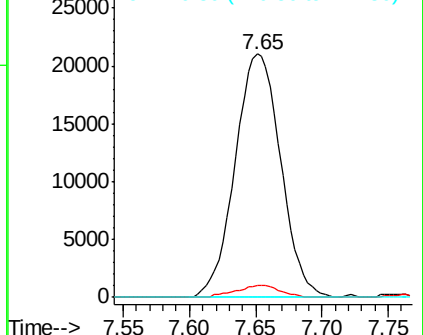
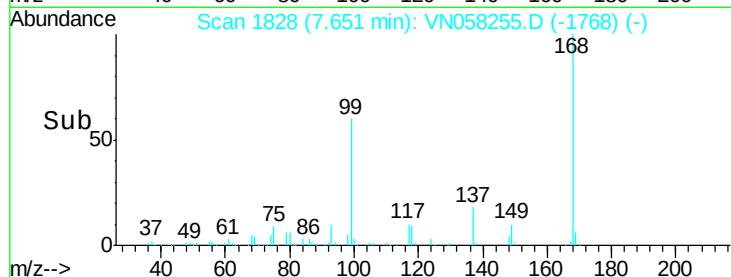
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 0.866 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.24 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

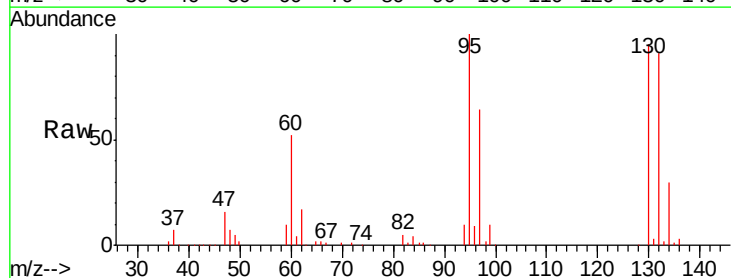
Tgt Ion: 83 Resp: 4445

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

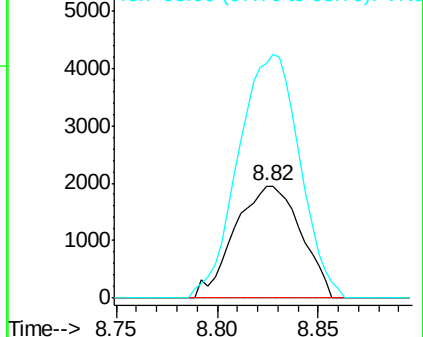
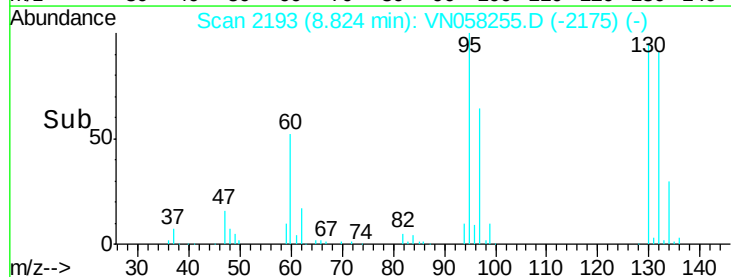
98 210.2 35.4 53.2#

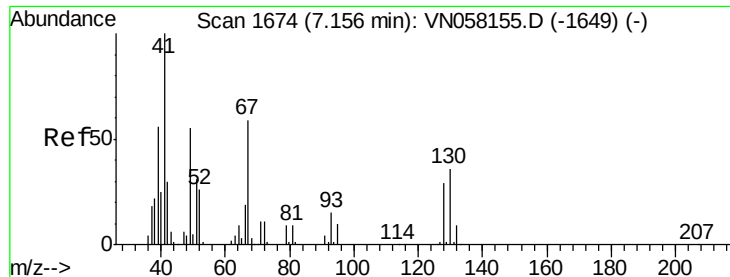


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

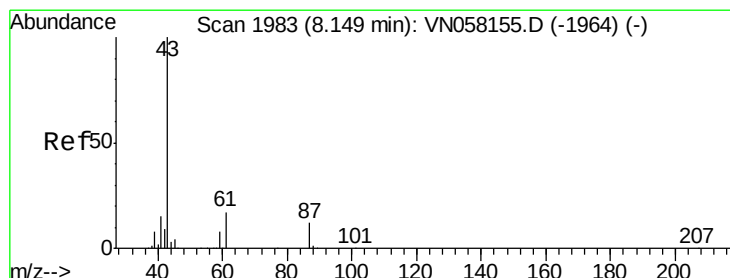
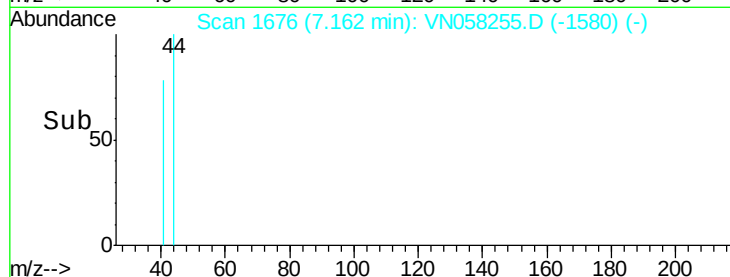
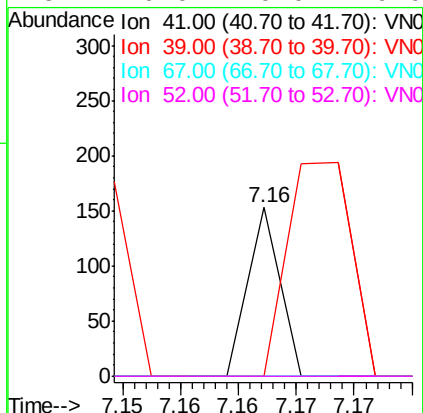
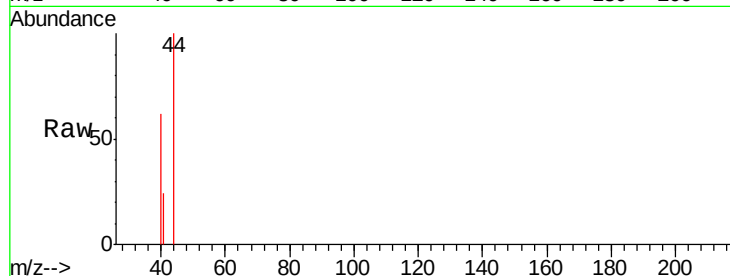




#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.01 min
Lab File: VN058255.D
Acq: 20 Sep 2019 17:04

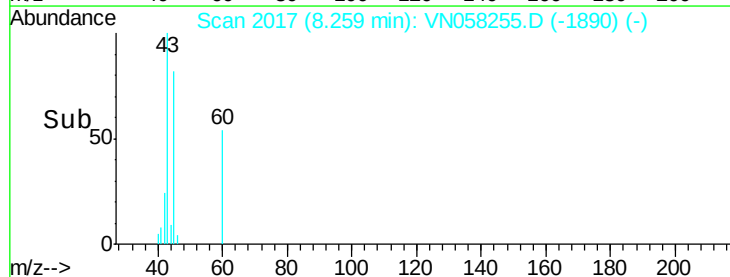
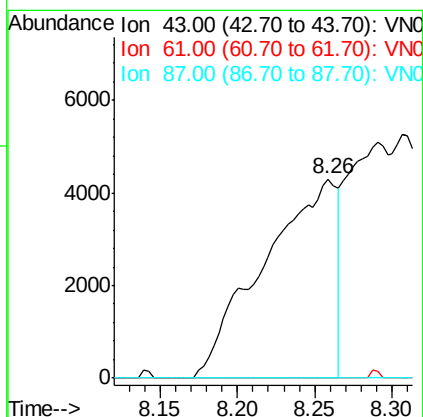
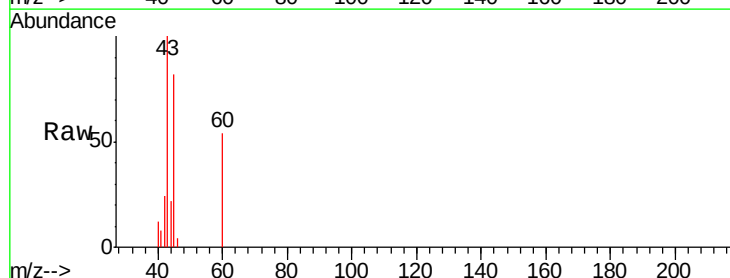
Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20190917DL

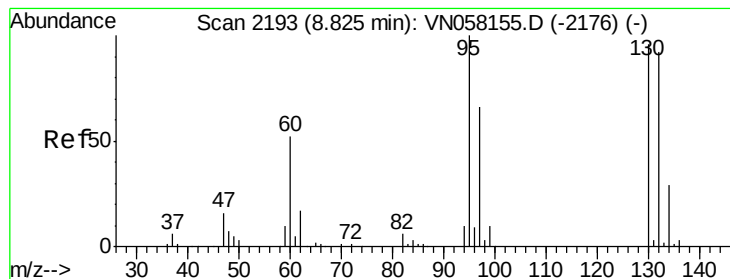
Tgt Ion:	41	Resp:	30
Ion	Ratio	Lower	Upper
41	100		
39	250.0	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 1.263 ug/l
RT: 8.26 min Scan# 2017
Delta R.T. 0.11 min
Lab File: VN058255.D
Acq: 20 Sep 2019 17:04

Tgt Ion:	43	Resp:	14138
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 75.877 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

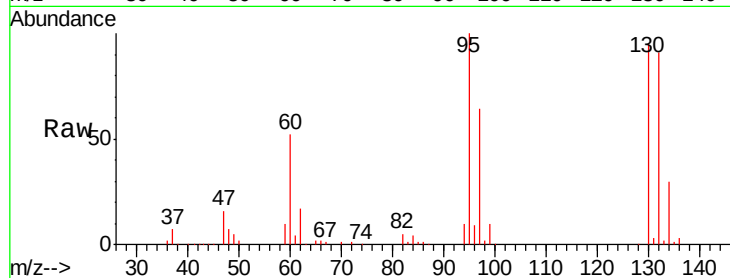
RE120D2-20190917DL

Tgt Ion:130 Resp: 327427

Ion Ratio Lower Upper

130 100

95 105.6 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058155.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058155.D (-2176) (-)

8.82

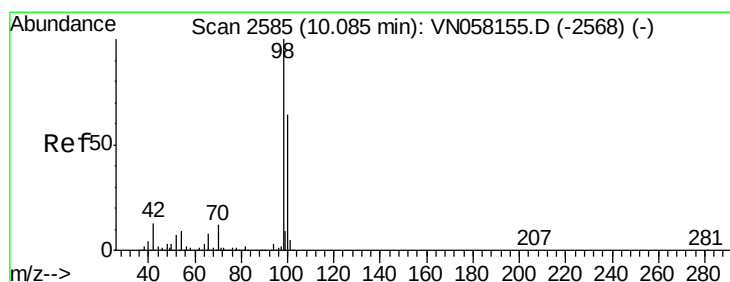
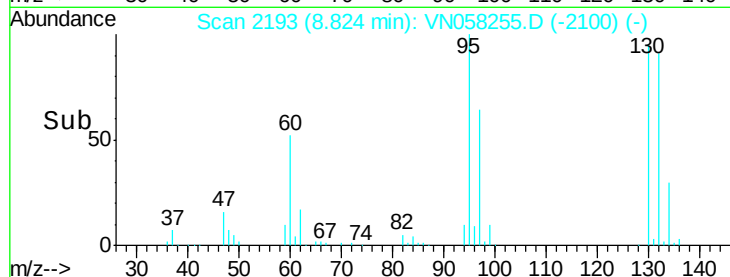
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 52.963 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058255.D

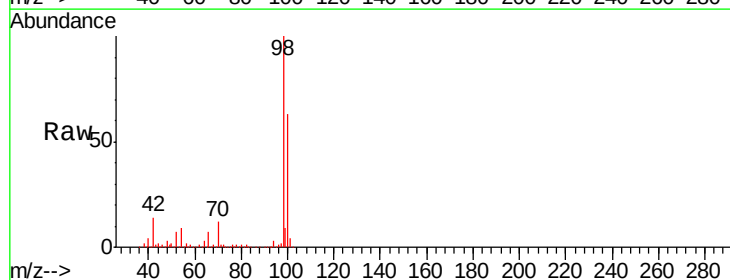
Acq: 20 Sep 2019 17:04

Tgt Ion: 98 Resp: 1004306

Ion Ratio Lower Upper

98 100

100 62.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058155.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058155.D (-2568) (-)

10.08

600000

500000

400000

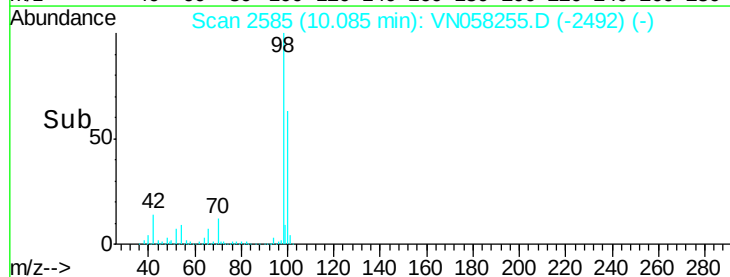
300000

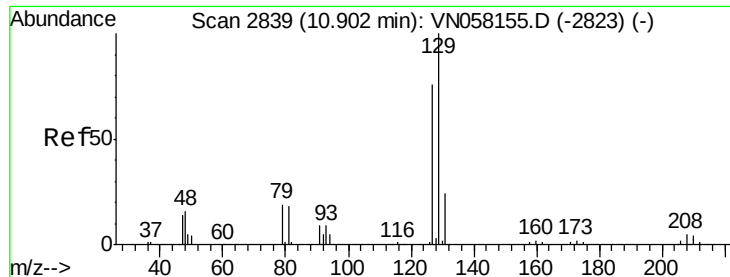
200000

100000

0

Time-->





#60

Dibromochloromethane

Concen: 0.418 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

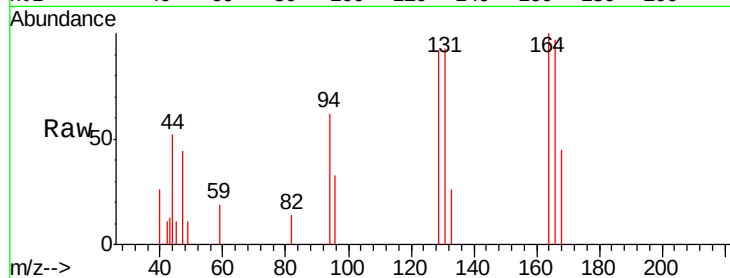
RE120D2-20190917DL

Tgt Ion:129 Resp: 1970

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

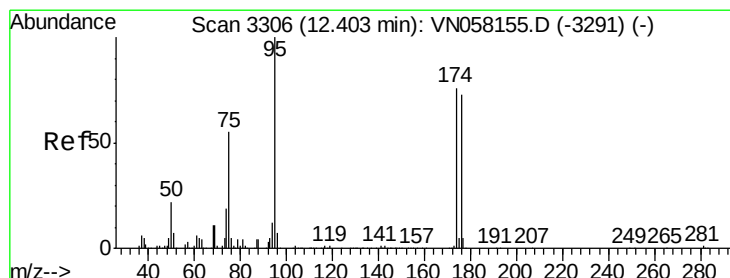
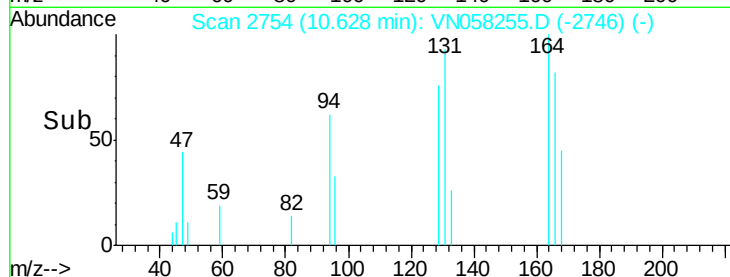
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.794 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

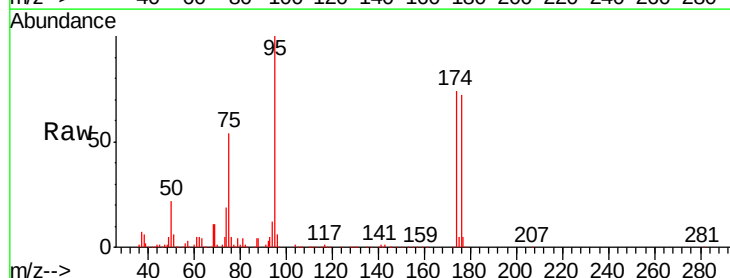
Tgt Ion: 95 Resp: 315518

Ion Ratio Lower Upper

95 100

174 74.6 0.0 152.2

176 72.0 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

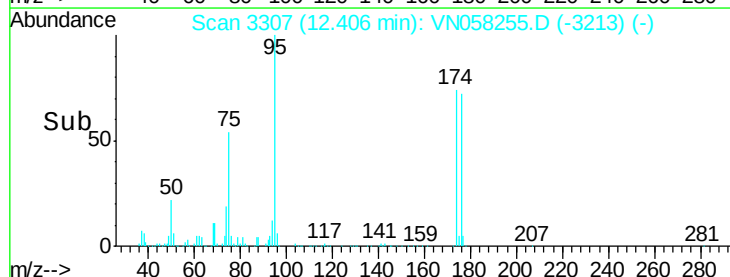
150000

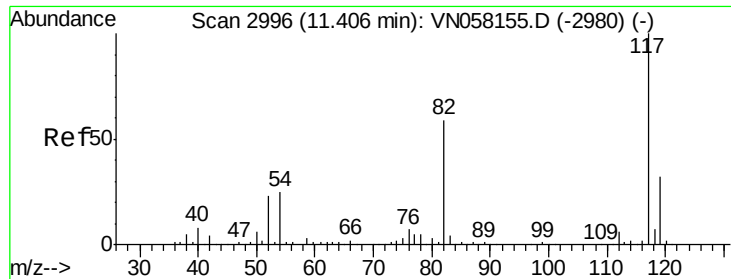
100000

50000

0

Time-->

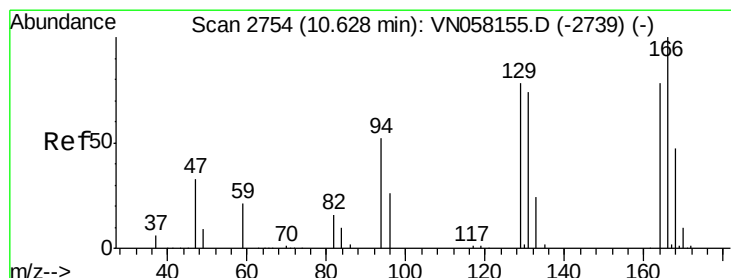
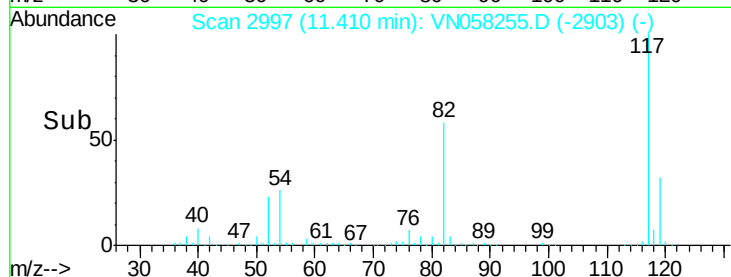
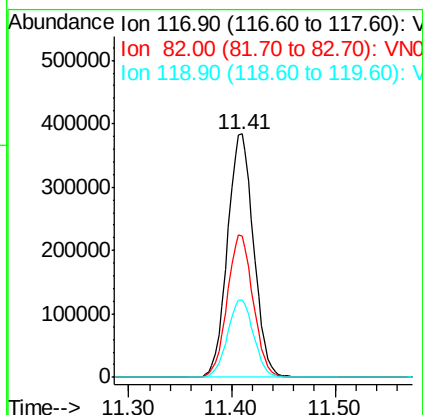
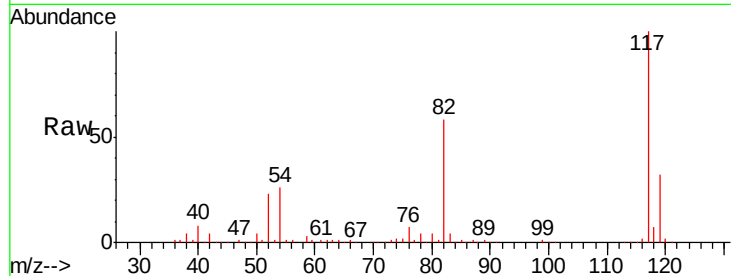




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058255.D
Acq: 20 Sep 2019 17:04

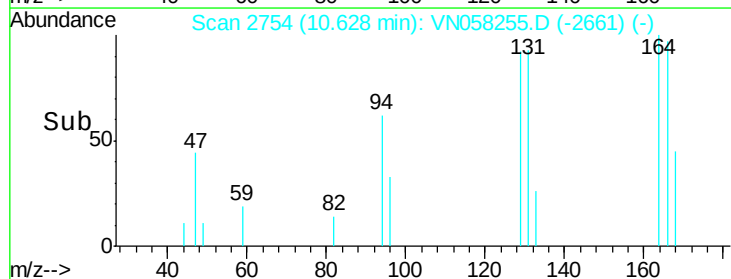
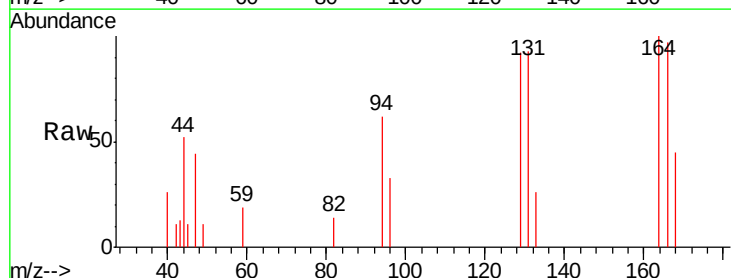
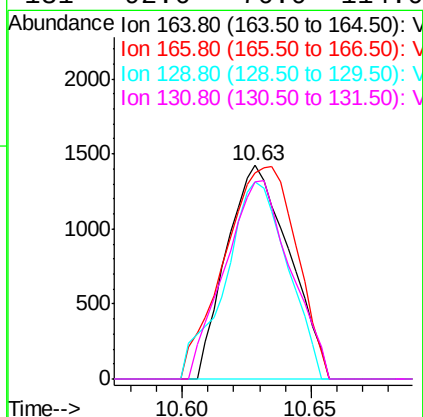
Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20190917DL

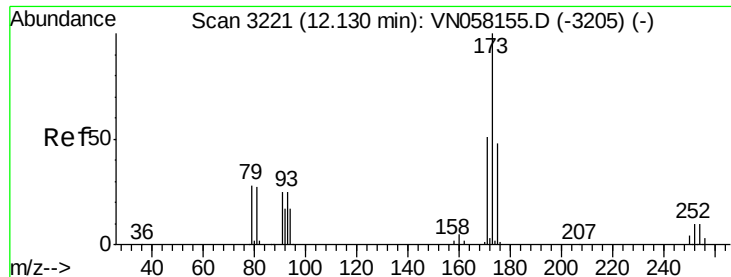
Tgt Ion:117 Resp: 679043
Ion Ratio Lower Upper
117 100
82 57.7 46.9 70.3
119 32.0 25.3 37.9



#64
Tetrachloroethene
Concen: 0.728 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058255.D
Acq: 20 Sep 2019 17:04

Tgt Ion:164 Resp: 2409
Ion Ratio Lower Upper
164 100
166 96.6 102.2 153.4#
129 92.3 79.6 119.4
131 92.6 76.0 114.0





#71

Bromoform

Concen: 3.814 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20190917DL

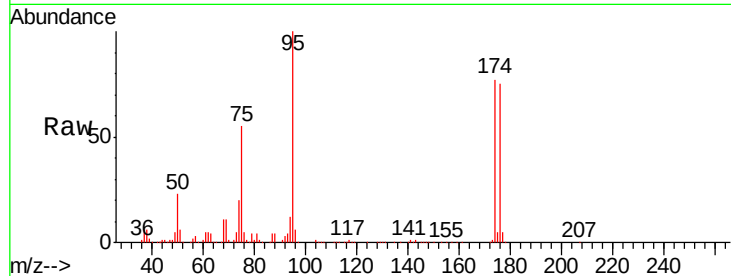
Tgt Ion:173 Resp: 759

Ion Ratio Lower Upper

173 100

175 1890.4 24.2 72.6#

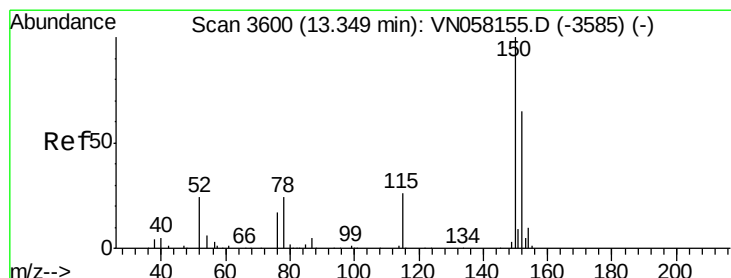
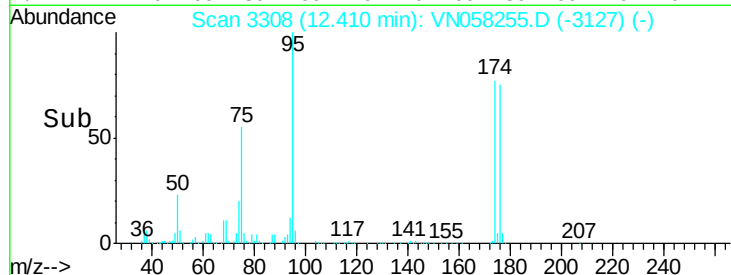
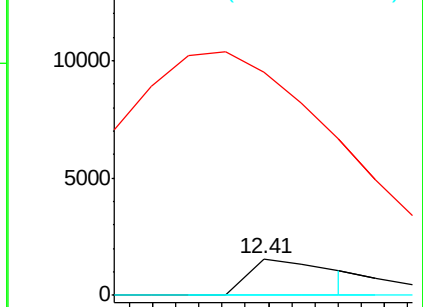
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

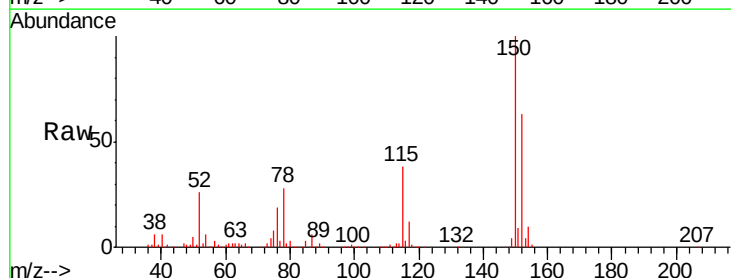
Tgt Ion:152 Resp: 269562

Ion Ratio Lower Upper

152 100

115 60.5 30.1 90.3

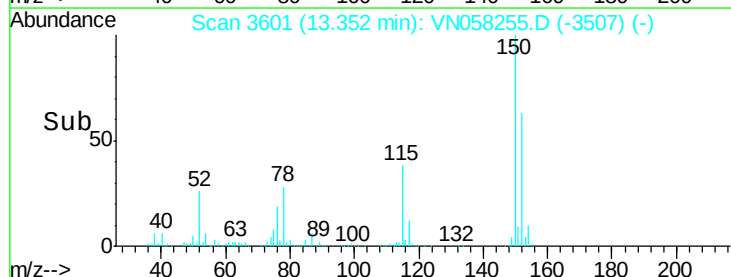
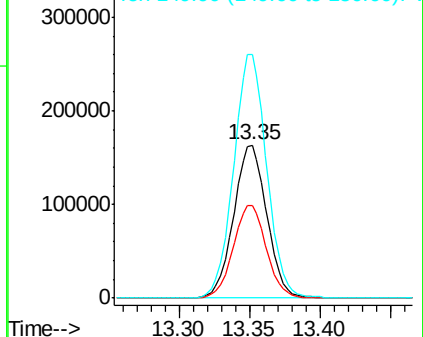
150 158.7 0.0 346.4

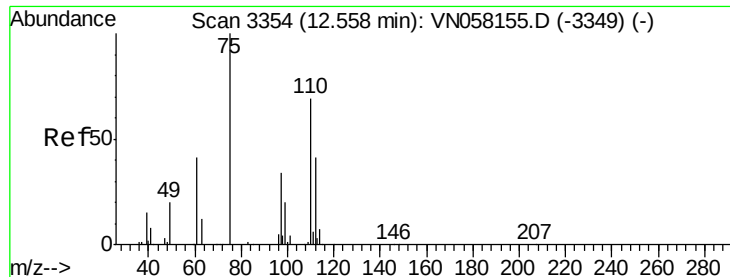


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.210 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

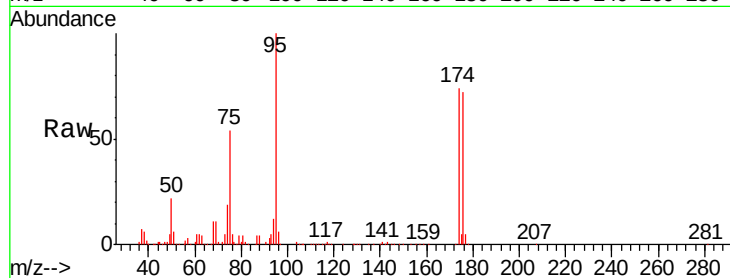
RE120D2-20190917DL

Tgt Ion: 75 Resp: 169865

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

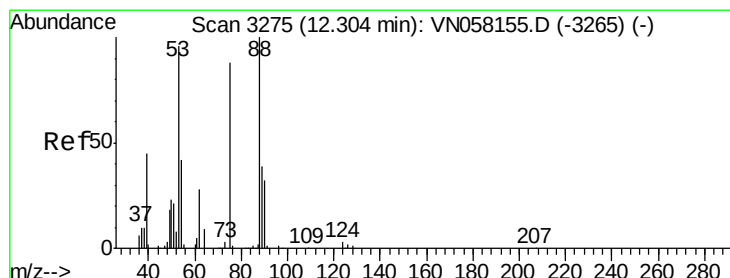
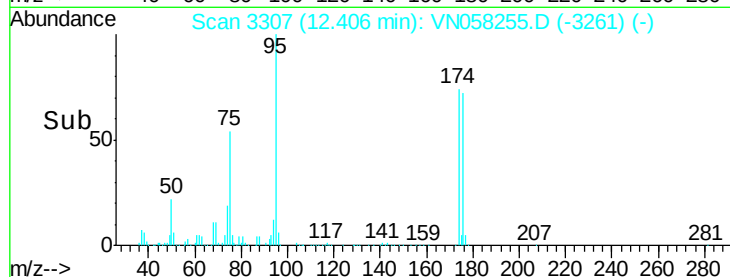
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.461 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058255.D

Acq: 20 Sep 2019 17:04

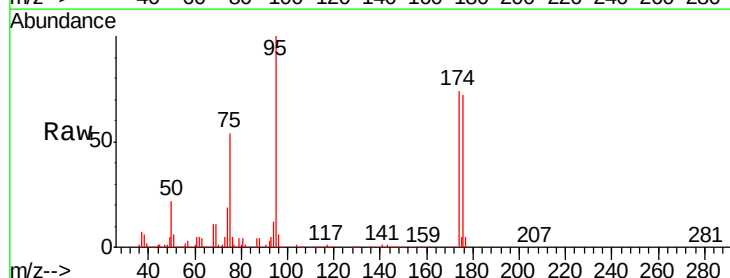
Tgt Ion: 75 Resp: 169865

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

100000

50000

0

12.35 12.40 12.45

Time-->

