

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057154.D
 Acq On : 9 Aug 2019 18:22
 Operator : JC/SP
 Sample : K4277-13
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-22

Quant Time: Aug 10 02:14:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1341640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1843382	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1520682	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	363891	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	610959	44.28	ug/l	0.00
Spiked Amount			Recovery	=	88.56%	
35) Dibromofluoromethane	6.99	113	554018	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
50) Toluene-d8	9.56	98	2148185	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	11.92	95	555384	38.95	ug/l	0.00
Spiked Amount			Recovery	=	77.90%	

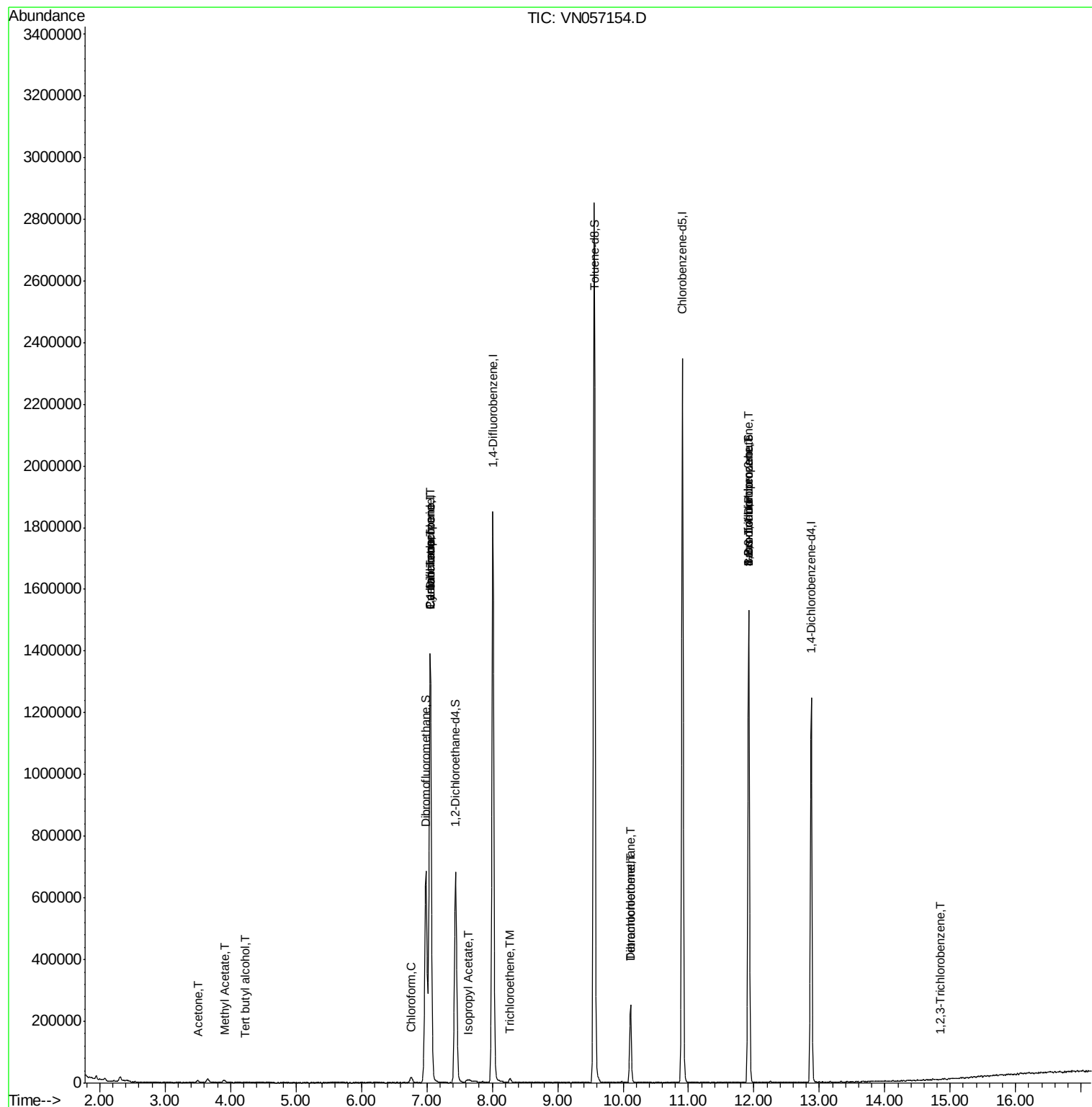
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.23	59	585	0.298	ug/l #	73
16) Acetone	3.49	43	5928	1.423	ug/l #	81
18) Methyl Acetate	3.90	43	13926	0.471	ug/l	99
30) Chloroform	6.76	83	20902	0.908	ug/l	90
31) Cyclohexane	7.05	56	19068	0.953	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	81672	5.381	ug/l #	48
37) Ethyl Acetate	6.28	43	124	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	113607	7.182	ug/l #	16
43) Isopropyl Acetate	7.63	43	7085	0.332	ug/l #	51
44) Trichloroethene	8.27	130	6403	0.476	ug/l	97
60) Dibromochloromethane	10.11	129	53581	4.350	ug/l #	11
64) Tetrachloroethene	10.11	164	65366	5.169	ug/l	94
71) Bromoform	11.92	173	2249	0.268	ug/l #	1
73) Isopropylbenzene	11.76	105	258	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	11.92	83	112	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	249981	34.264	ug/l #	100
79) 2-Chlorotoluene	12.20	91	107	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	249981	101.008	ug/l #	14
83) tert-Butylbenzene	12.52	119	158	Below Cal	#	28
90) Hexachloroethane	13.53	117	60	Below Cal	#	1
96) 1,2,3-Trichlorobenzene	14.84	180	79	5.734	ug/l #	12

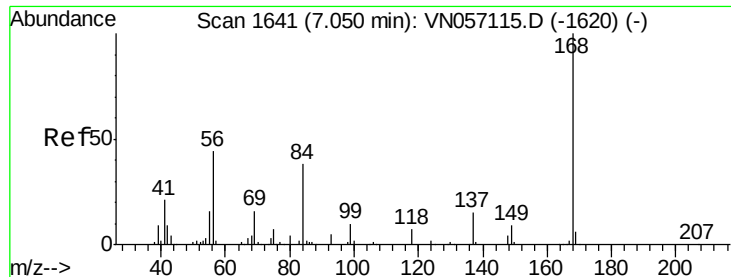
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

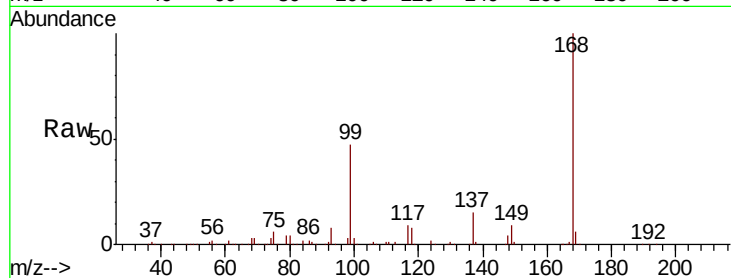
TP-22

Tgt Ion:168 Resp: 1341640

Ion Ratio Lower Upper

168 100

99 47.0 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057115.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057115.D (-1620) (-)

7.05

600000

500000

400000

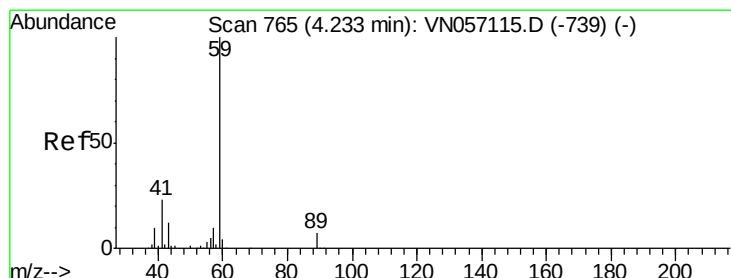
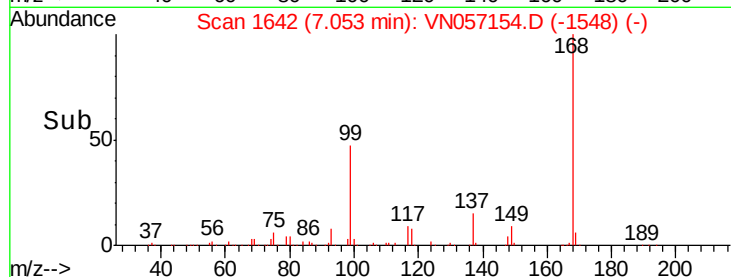
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 0.298 ug/l

RT: 4.23 min Scan# 763

Delta R.T. -0.01 min

Lab File: VN057154.D

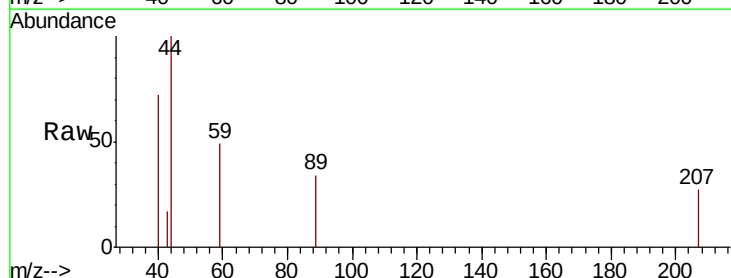
Acq: 9 Aug 2019 18:22

Tgt Ion: 59 Resp: 585

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN057115.D (-739) (-)

Ion 57.00 (56.70 to 57.70): VN057115.D (-739) (-)

4.23

500

400

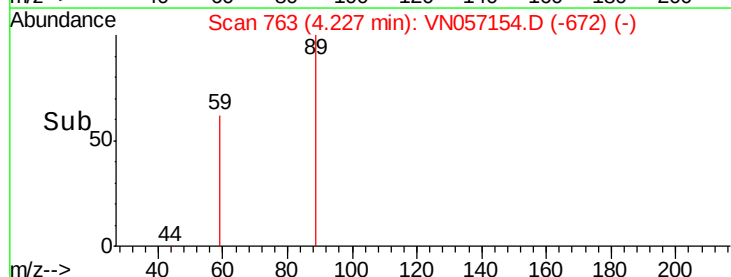
300

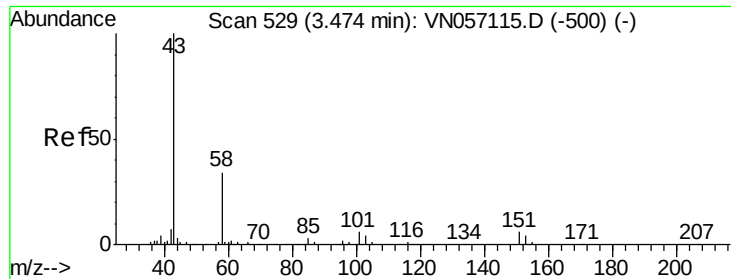
200

100

0

Time--> 4.20 4.22 4.24

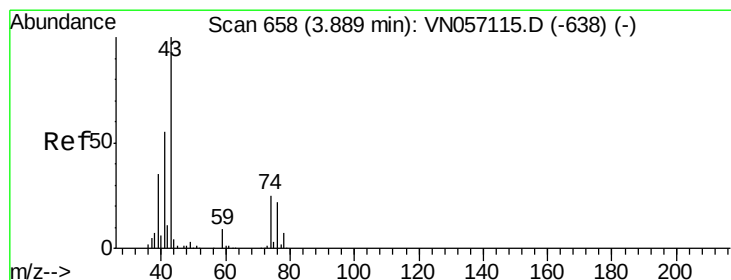
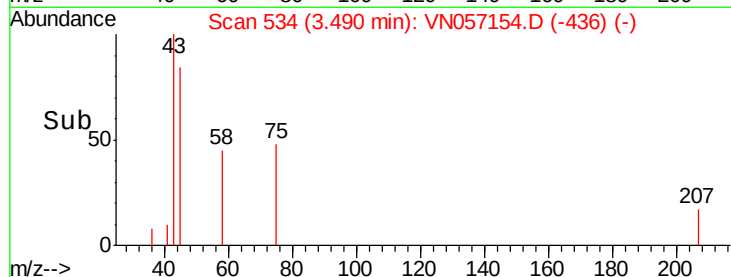
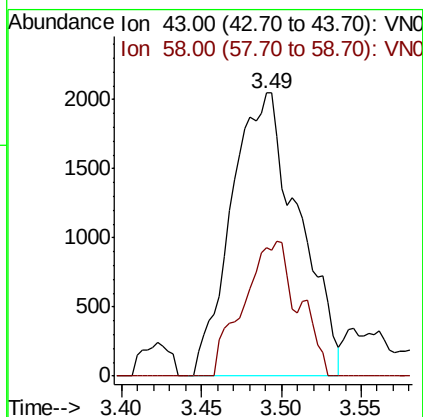
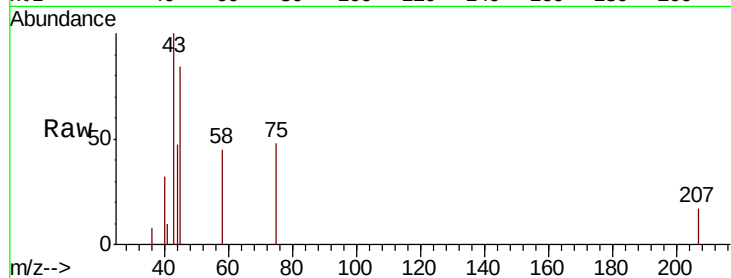




#16
Acetone
Concen: 1.423 ug/l
RT: 3.49 min Scan# 534
Delta R.T. 0.02 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

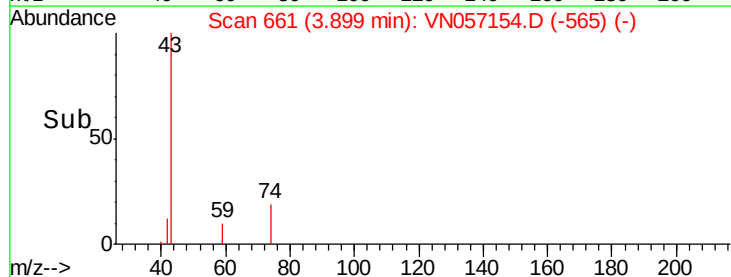
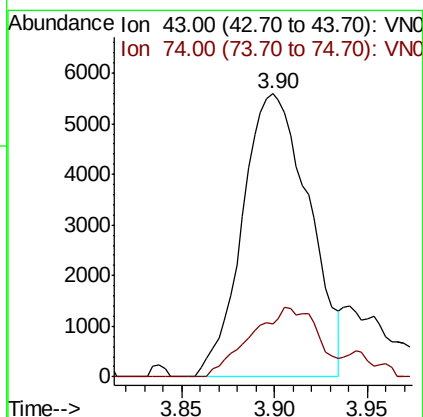
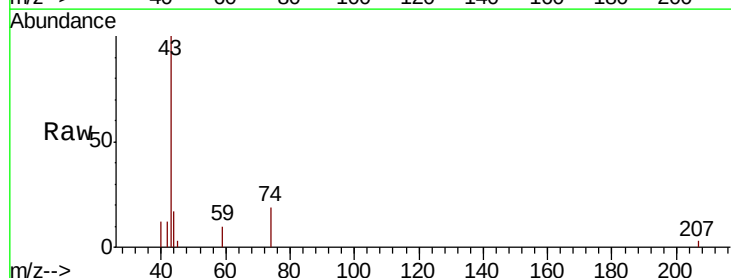
Instrument :
MSVOA_N
ClientSampled :
TP-22

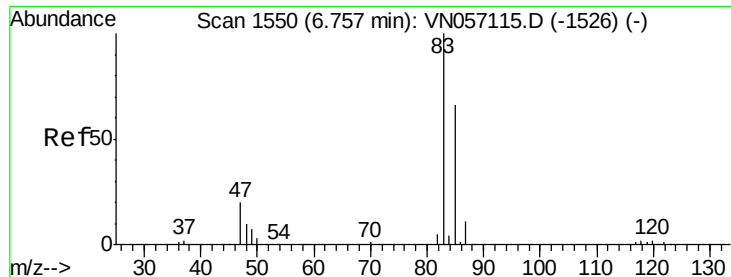
Tgt Ion: 43 Resp: 5928
Ion Ratio Lower Upper
43 100
58 45.4 27.4 41.2#



#18
Methyl Acetate
Concen: 0.471 ug/l
RT: 3.90 min Scan# 661
Delta R.T. 0.01 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

Tgt Ion: 43 Resp: 13926
Ion Ratio Lower Upper
43 100
74 24.7 20.2 30.4

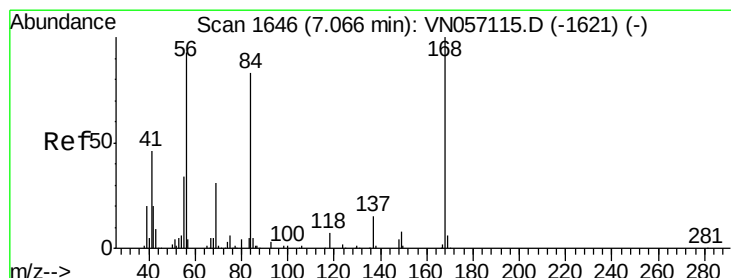
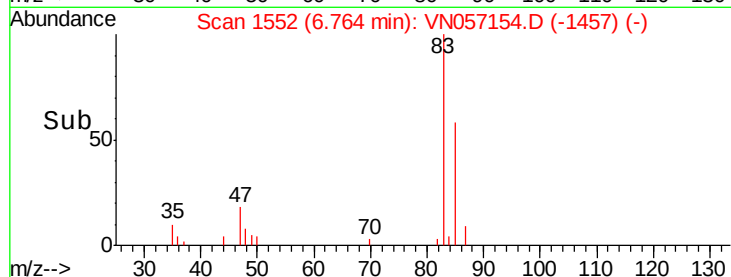
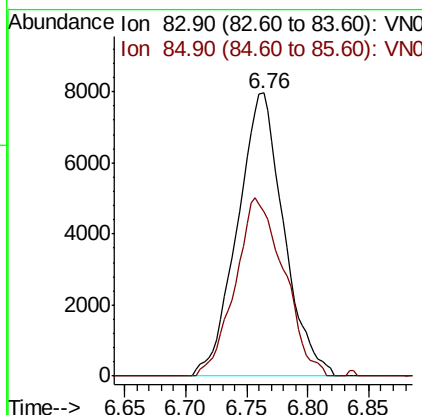
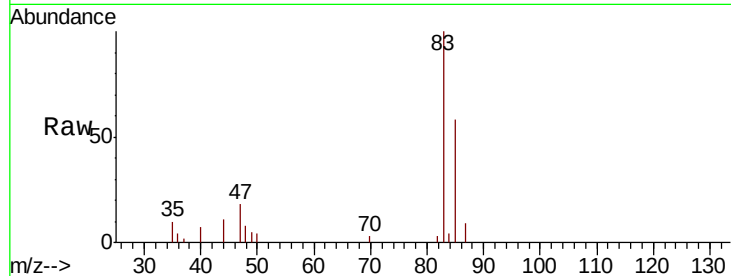




#30
Chloroform
Concen: 0.908 ug/l
RT: 6.76 min Scan# 1552
Delta R.T. 0.01 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

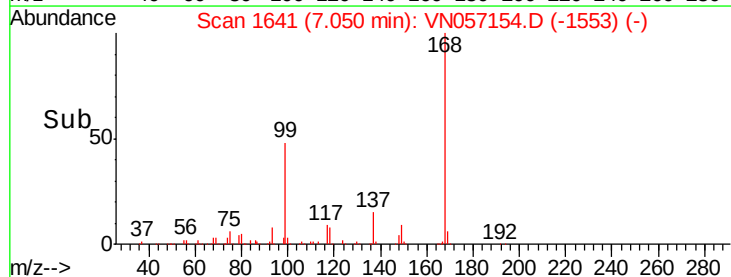
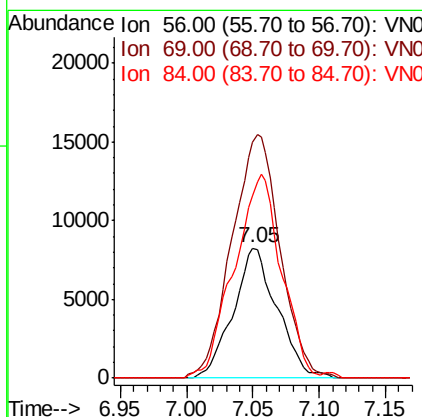
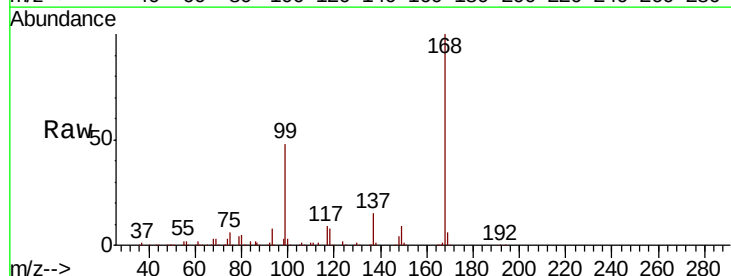
Instrument :
MSVOA_N
ClientSampleId :
TP-22

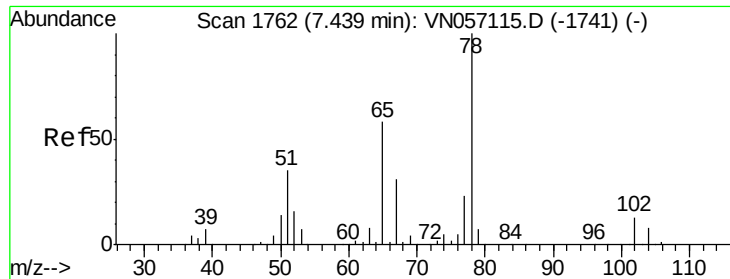
Tgt Ion: 83 Resp: 20902
Ion Ratio Lower Upper
83 100
85 58.1 52.6 78.8



#31
Cyclohexane
Concen: 0.953 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

Tgt Ion: 56 Resp: 19068
Ion Ratio Lower Upper
56 100
69 181.6 26.9 40.3#
84 138.5 71.9 107.9#

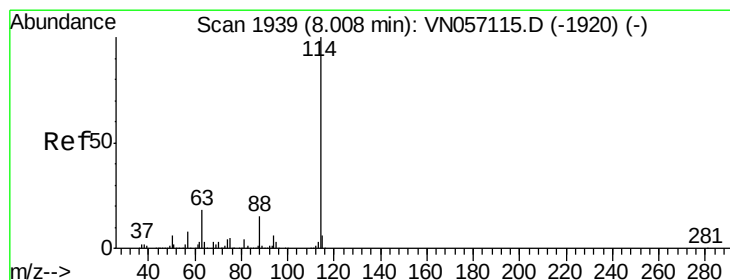
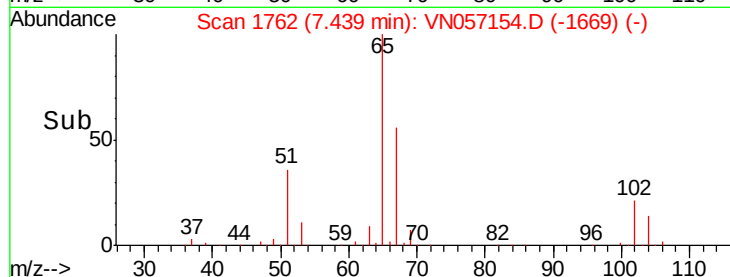
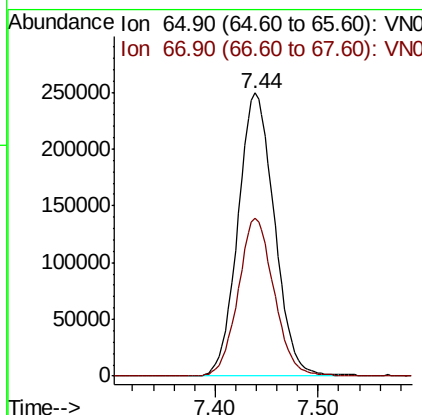
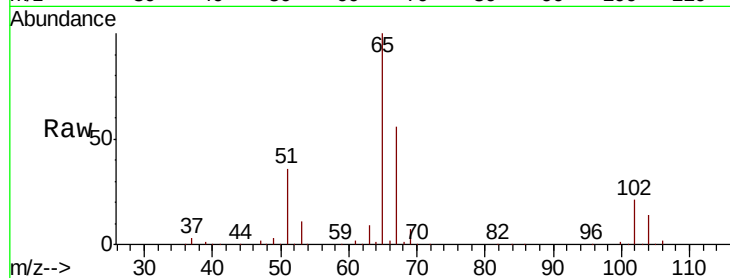




#33
 1,2-Dichloroethane-d4
 Concen: 44.279 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057154.D
 Acq: 9 Aug 2019 18:22

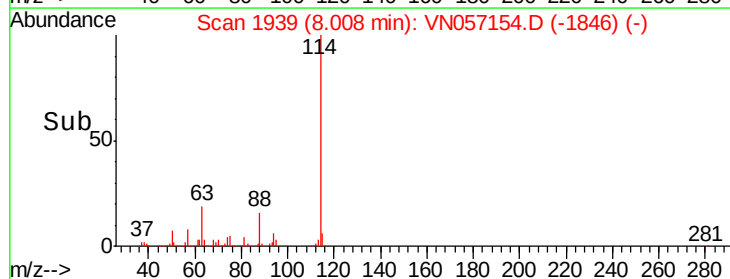
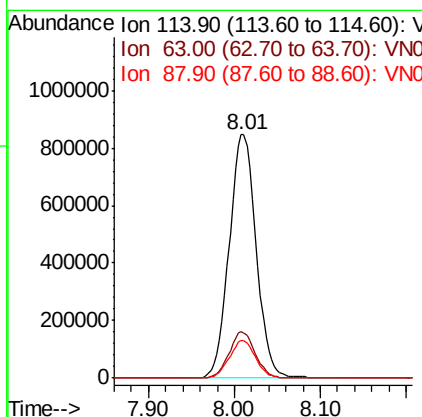
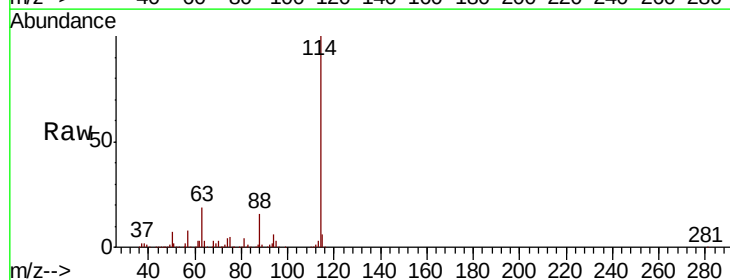
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-22

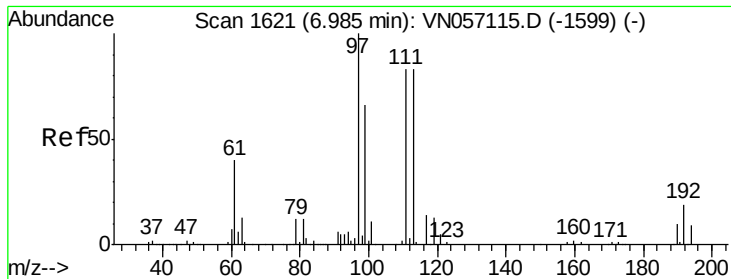
Tgt Ion: 65 Resp: 610959
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057154.D
 Acq: 9 Aug 2019 18:22

Tgt Ion: 114 Resp: 1843382
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 36.2
 88 15.6 0.0 30.0

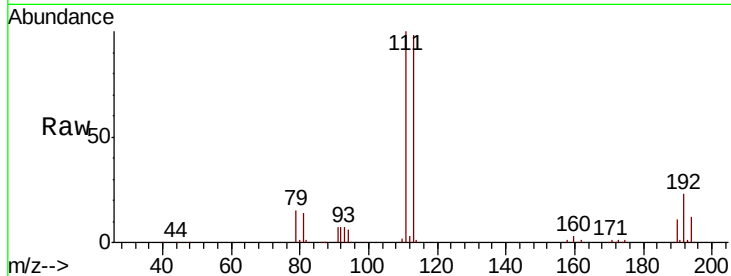




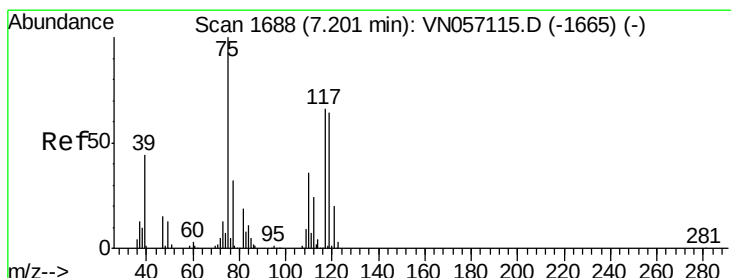
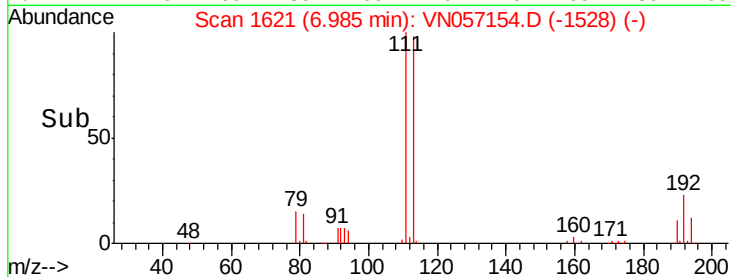
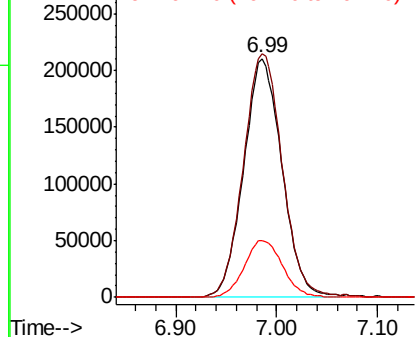
#35
 Dibromofluoromethane
 Concen: 47.894 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057154.D
 Acq: 9 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-22

Tgt Ion: 113 Resp: 554018
 Ion Ratio Lower Upper
 113 100
 111 104.1 81.3 121.9
 192 23.8 19.0 28.4

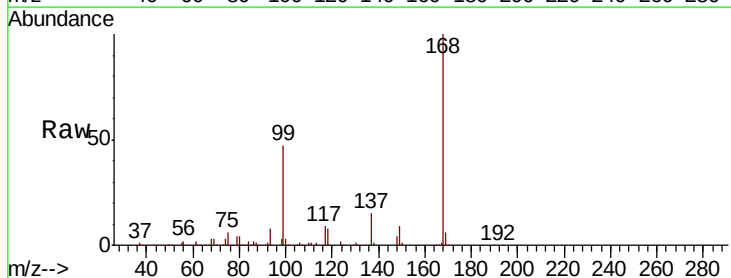


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

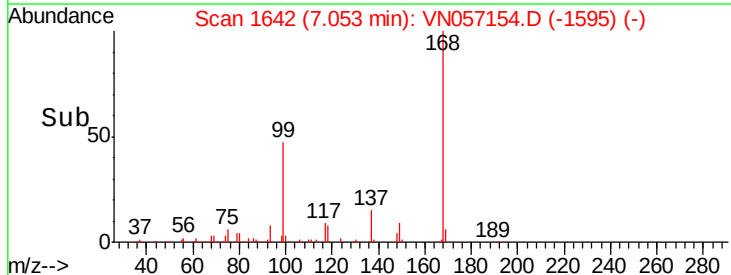
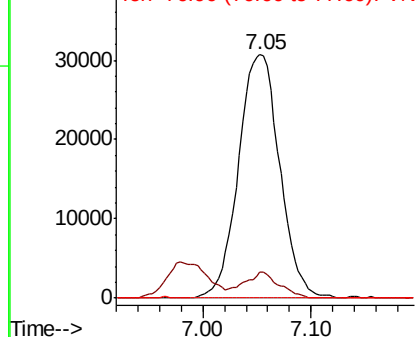


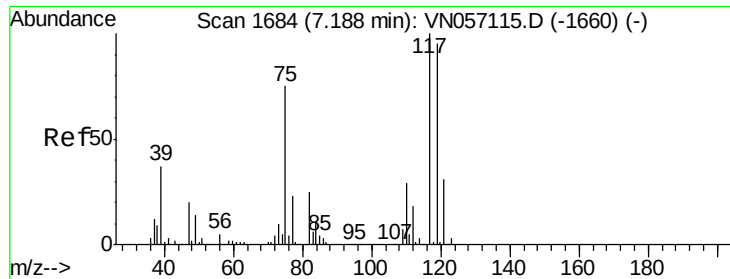
#36
 1,1-Dichloropropene
 Concen: 5.381 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.15 min
 Lab File: VN057154.D
 Acq: 9 Aug 2019 18:22

Tgt Ion: 75 Resp: 81672
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.7 56.1#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

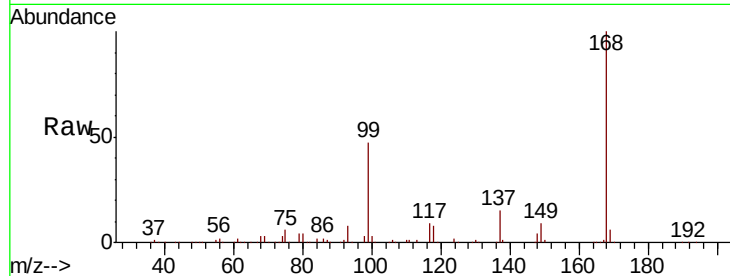




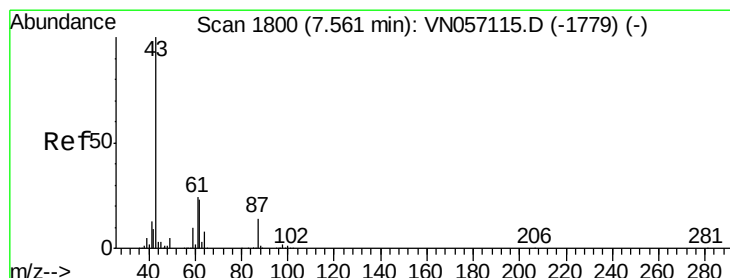
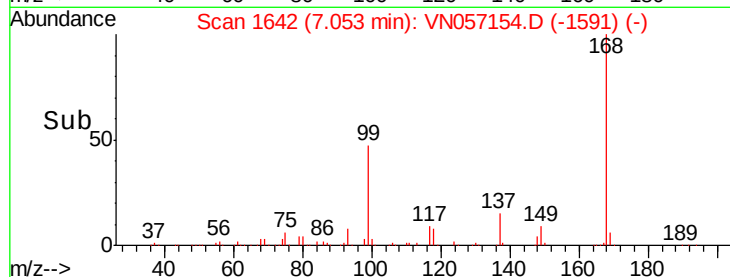
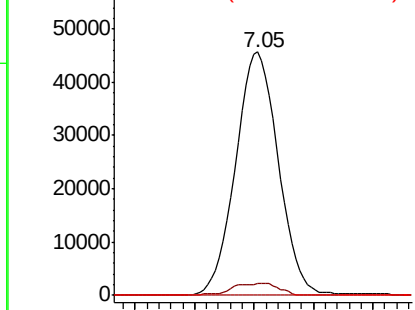
#38
Carbon Tetrachloride
Concen: 7.182 ug/l
RT: 7.05 min Scan# 1642
Delta R.T. -0.14 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

Instrument :
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Tgt Ion: 117 Resp: 113607
Ion Ratio Lower Upper
117 100
119 4.9 75.8 113.6#
121 0.0 24.4 36.6#

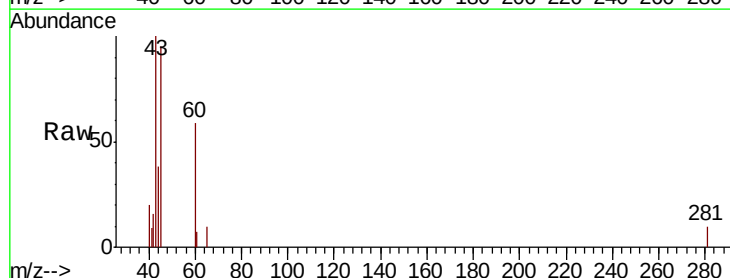


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

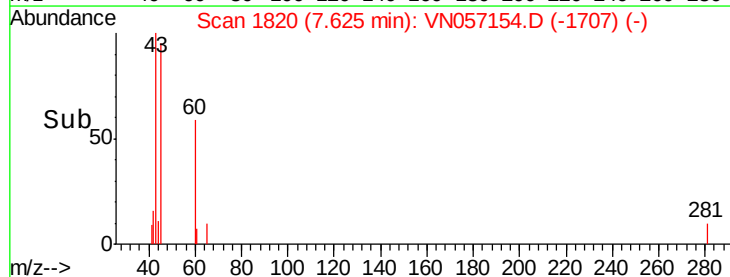
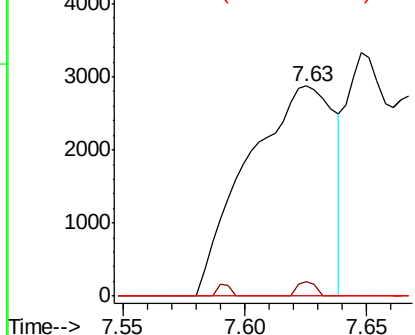


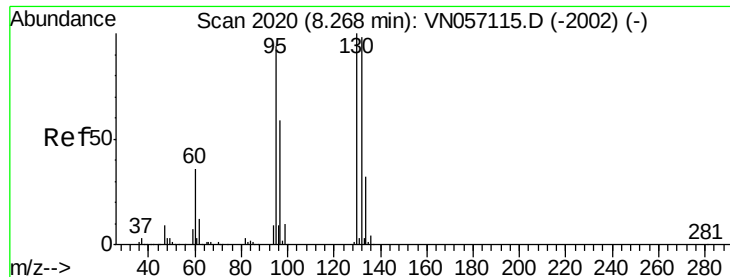
#43
Isopropyl Acetate
Concen: 0.332 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.06 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

Tgt Ion: 43 Resp: 7085
Ion Ratio Lower Upper
43 100
61 0.0 24.2 36.2#
87 0.0 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 0.476 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampled :

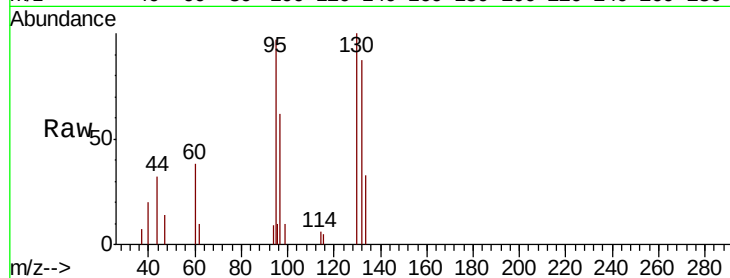
TP-22

Tgt Ion:130 Resp: 6403

Ion Ratio Lower Upper

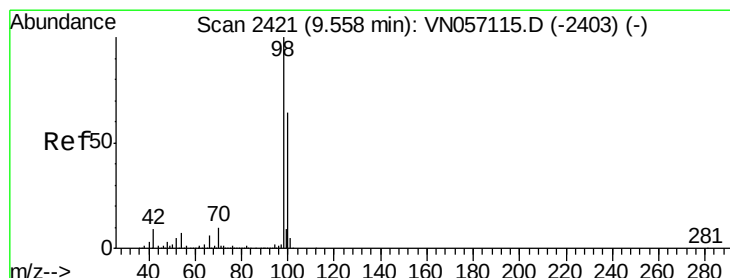
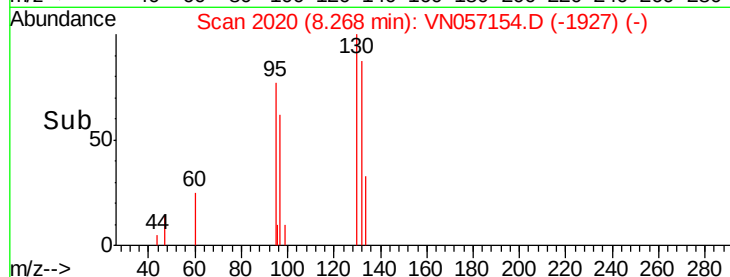
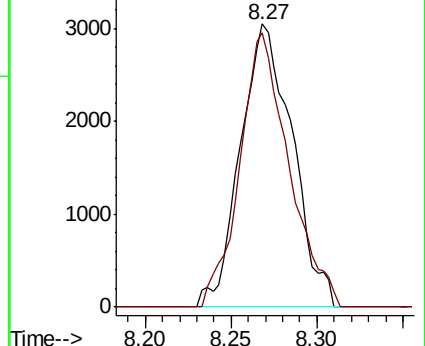
130 100

95 97.0 0.0 187.4



Abundance Ion 129.80 (129.50 to 130.50): VN057154.D (-2002) (-)

Ion 94.90 (94.60 to 95.60): VN057154.D (-2002) (-)



#50

Toluene-d8

Concen: 48.541 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. -0.00 min

Lab File: VN057154.D

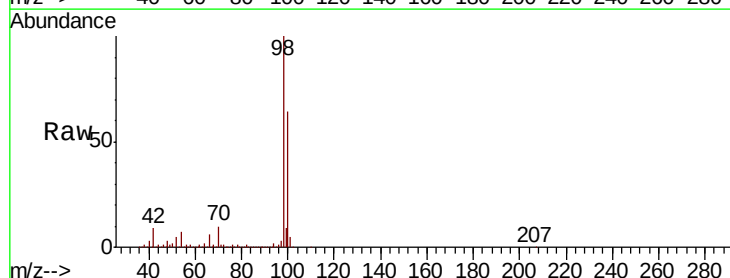
Acq: 9 Aug 2019 18:22

Tgt Ion: 98 Resp: 2148185

Ion Ratio Lower Upper

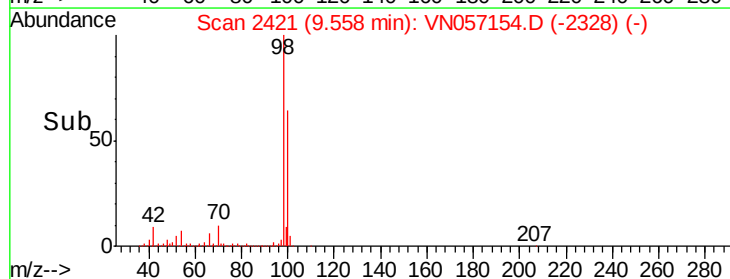
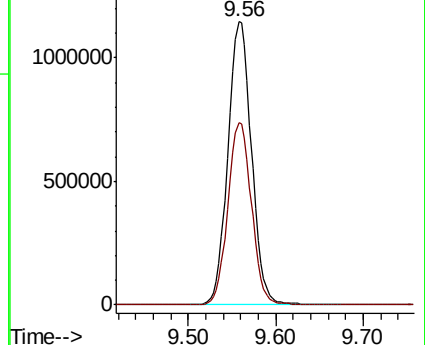
98 100

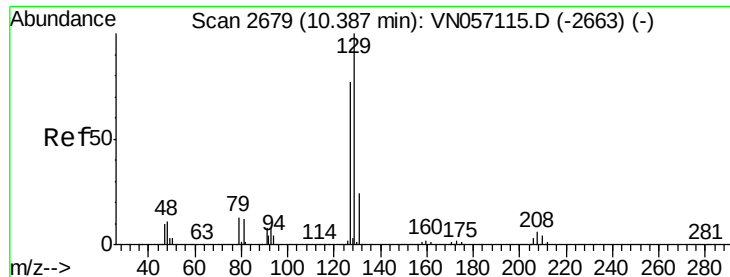
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN057154.D (-2403) (-)

Ion 100.00 (99.70 to 100.70): VN057154.D (-2403) (-)

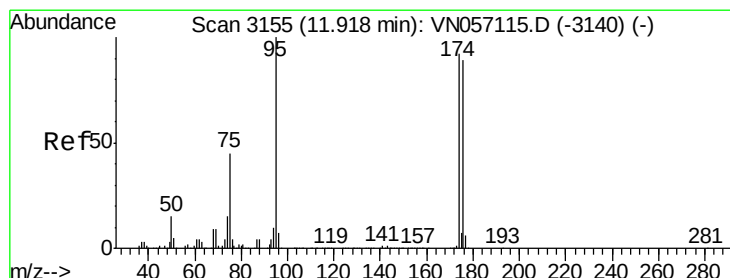
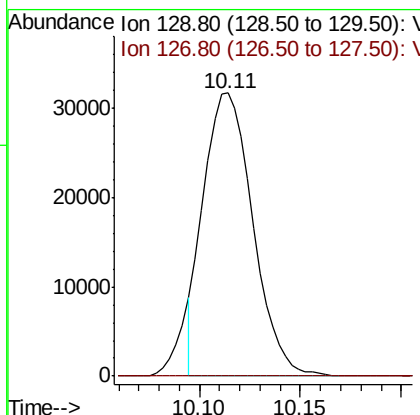
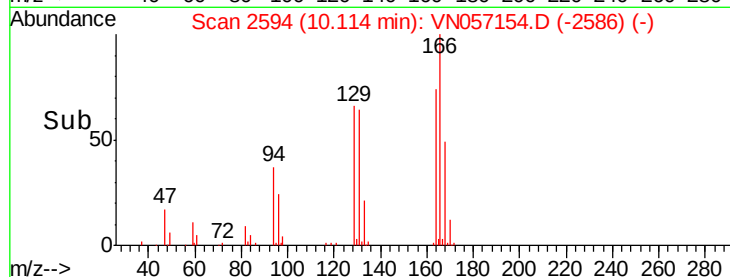
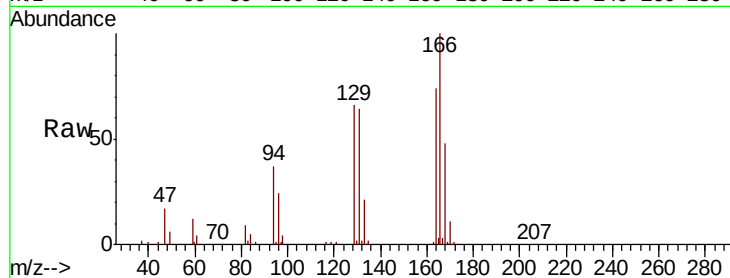




#60
Dibromochloromethane
Concen: 4.350 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. -0.27 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

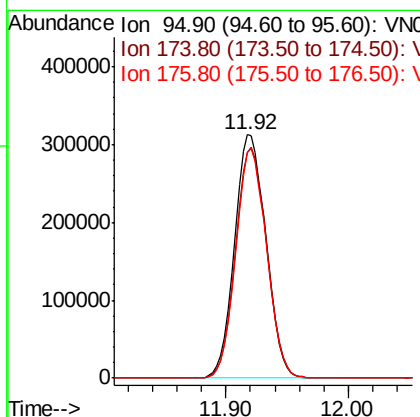
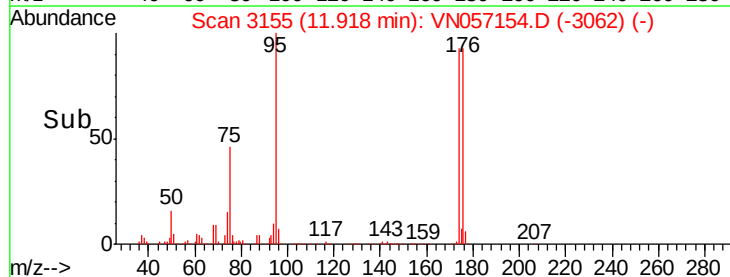
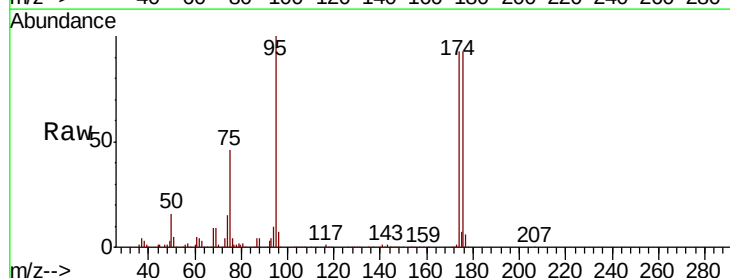
Instrument :
MSVOA_N
ClientSampled :
TP-22

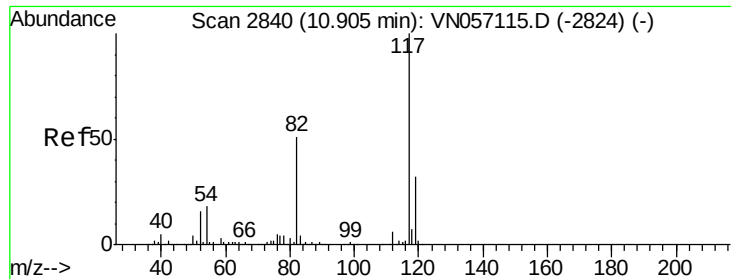
Tgt Ion: 129 Resp: 53581
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 38.949 ug/l
RT: 11.92 min Scan# 3155
Delta R.T. -0.00 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

Tgt Ion: 95 Resp: 555384
Ion Ratio Lower Upper
95 100
174 94.3 0.0 185.0
176 92.4 0.0 181.2

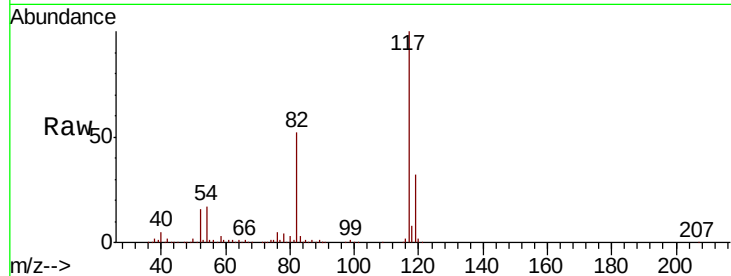




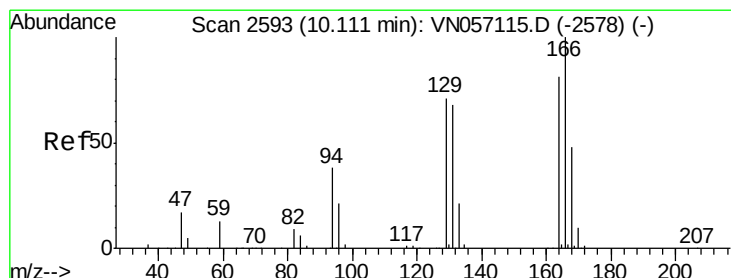
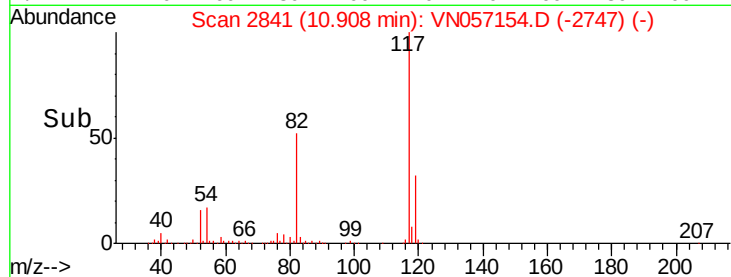
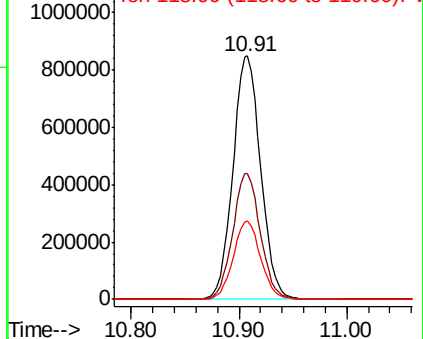
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.91 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampled :
TP-22

Tgt Ion:117 Resp: 1520682
Ion Ratio Lower Upper
117 100
82 51.9 40.8 61.2
119 32.3 25.7 38.5

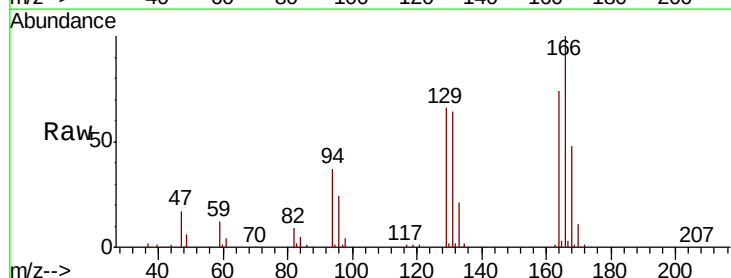


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

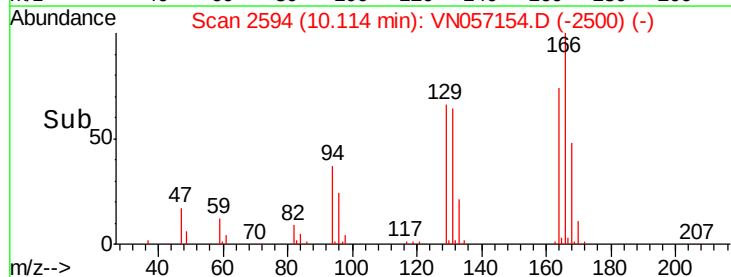
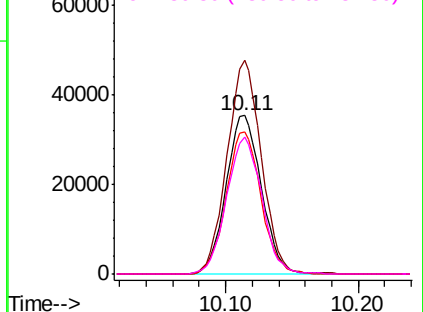


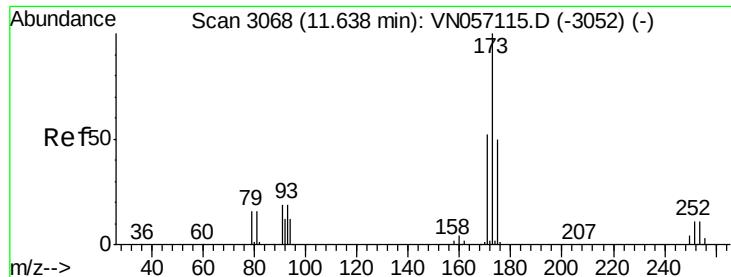
#64
Tetrachloroethene
Concen: 5.169 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. 0.00 min
Lab File: VN057154.D
Acq: 9 Aug 2019 18:22

Tgt Ion:164 Resp: 65366
Ion Ratio Lower Upper
164 100
166 135.0 98.3 147.5
129 89.6 69.8 104.6
131 86.3 66.8 100.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.268 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. 0.28 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

TP-22

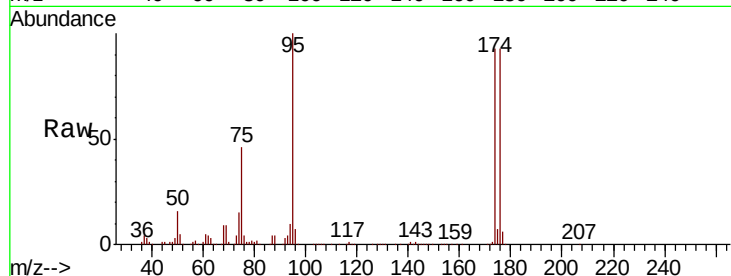
Tgt Ion:173 Resp: 2249

Ion Ratio Lower Upper

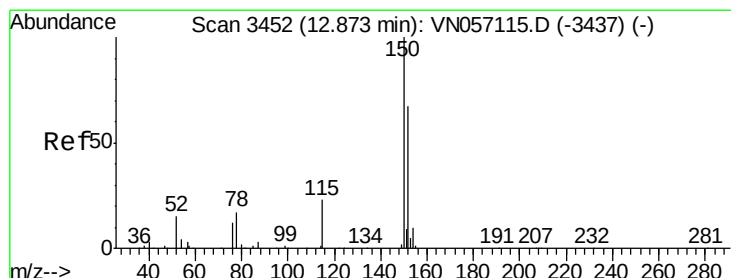
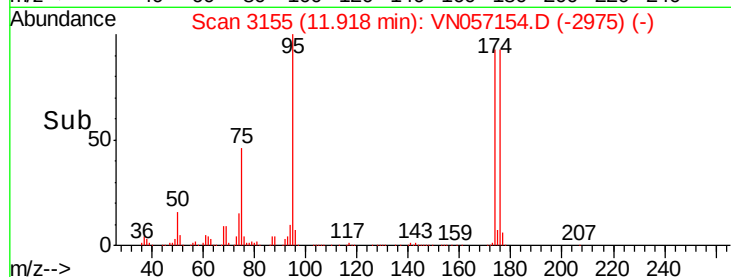
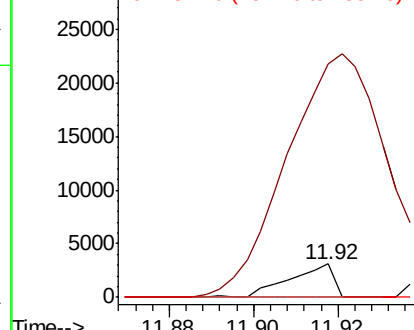
173 100

175 1178.9 24.6 73.8#

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: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

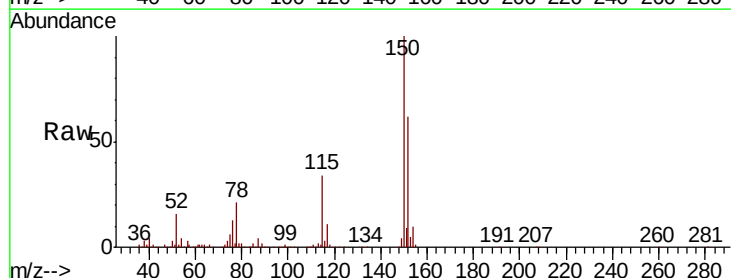
Tgt Ion:152 Resp: 363891

Ion Ratio Lower Upper

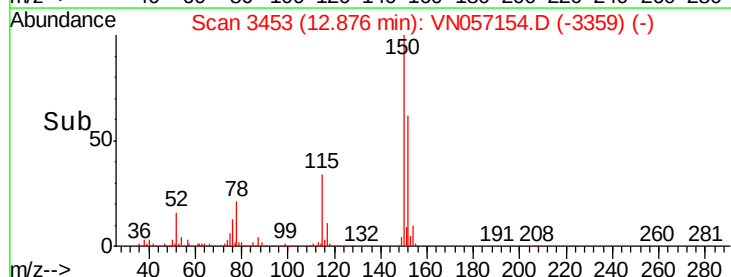
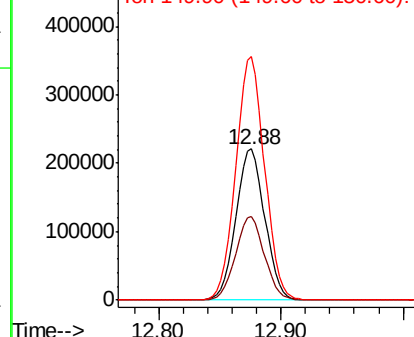
152 100

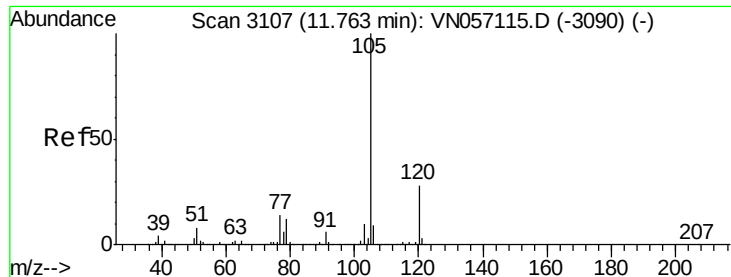
115 55.1 27.5 82.5

150 160.6 0.0 341.6



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: Below Cal

RT: 11.76 min Scan# 3107

Delta R.T. 0.00 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

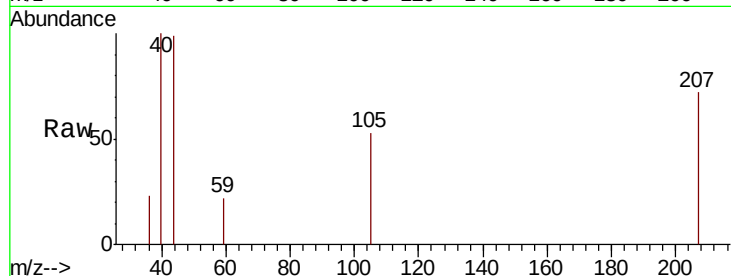
TP-22

Tgt Ion: 105.00 Resp: 258

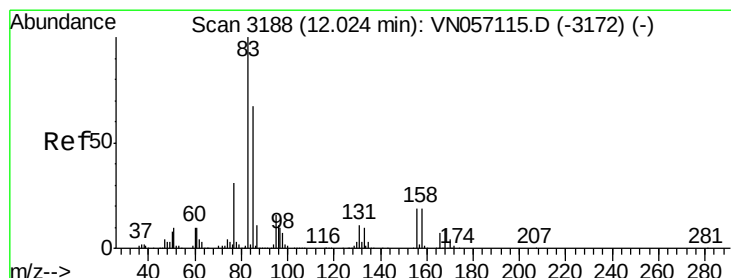
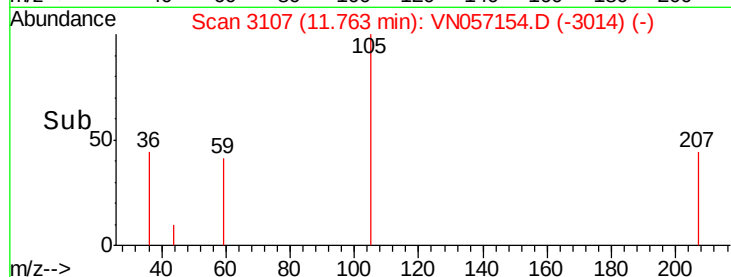
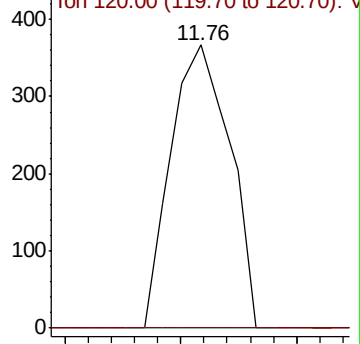
Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.92 min Scan# 3157

Delta R.T. -0.10 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

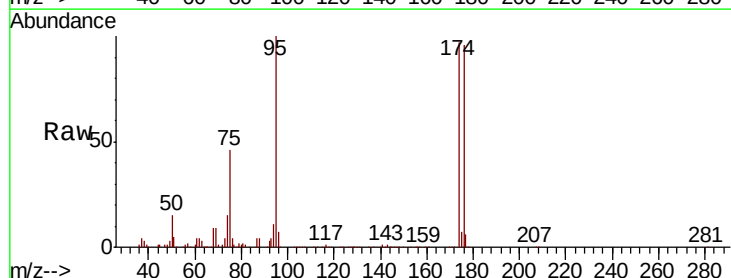
Tgt Ion: 83 Resp: 112

Ion Ratio Lower Upper

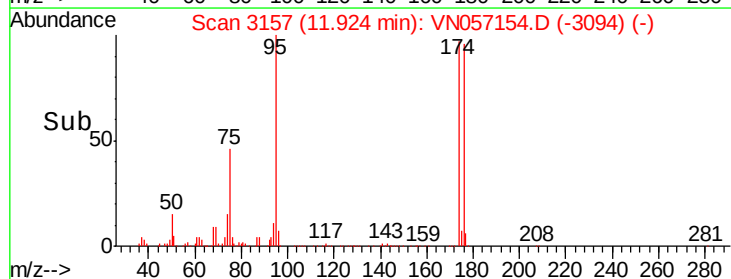
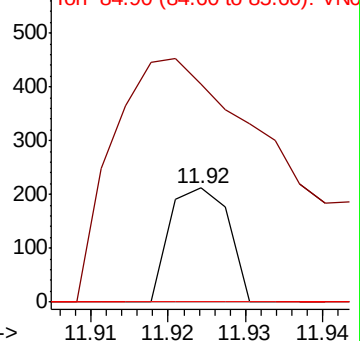
83 100

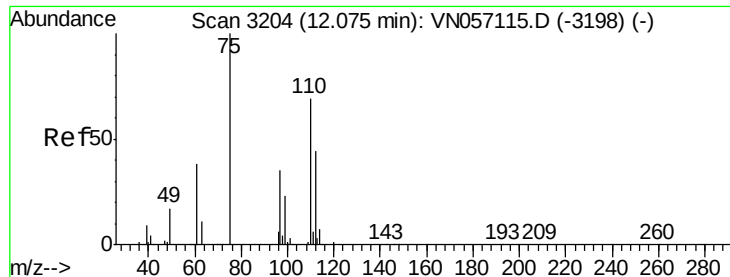
131 636.6 5.5 16.4#

85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): V





#76

1,2,3-Trichloropropane

Concen: 34.264 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

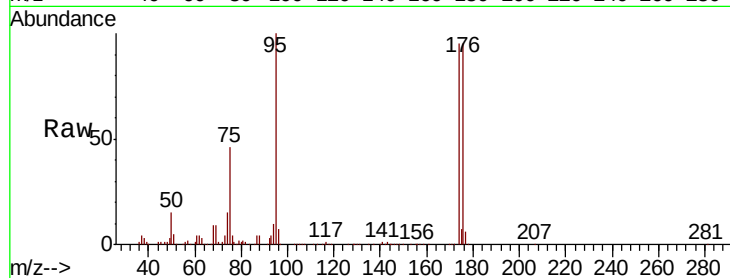
TP-22

Tgt Ion: 75 Resp: 249981

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

11.92

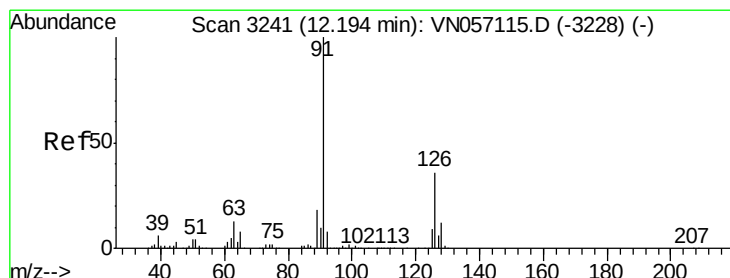
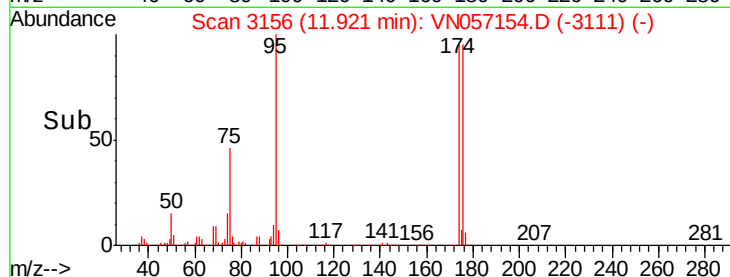
150000

100000

50000

0

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.20 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VN057154.D

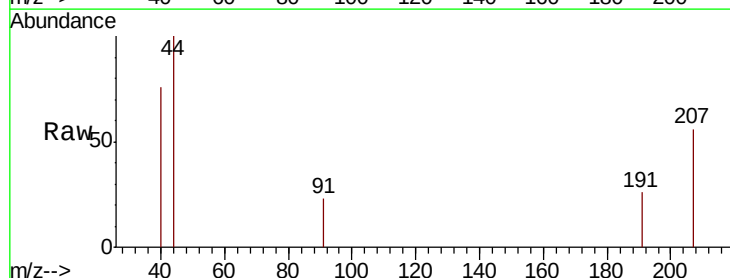
Acq: 9 Aug 2019 18:22

Tgt Ion: 91 Resp: 107

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.20

200

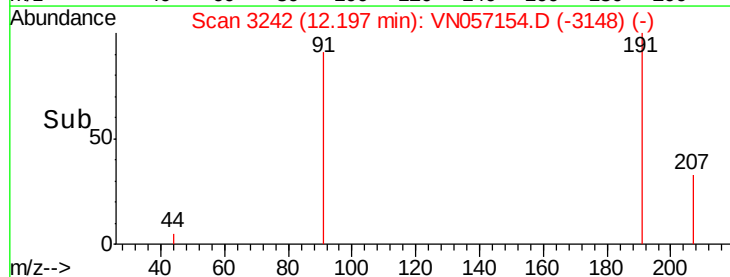
150

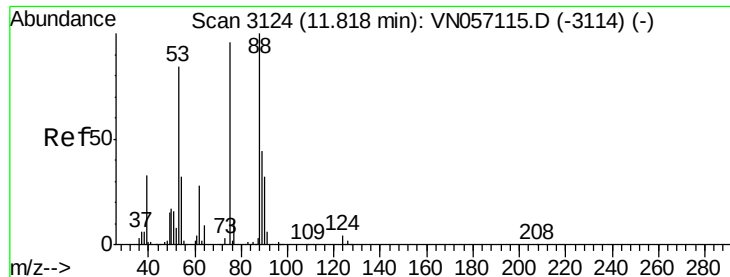
100

50

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 101.008 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.10 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

TP-22

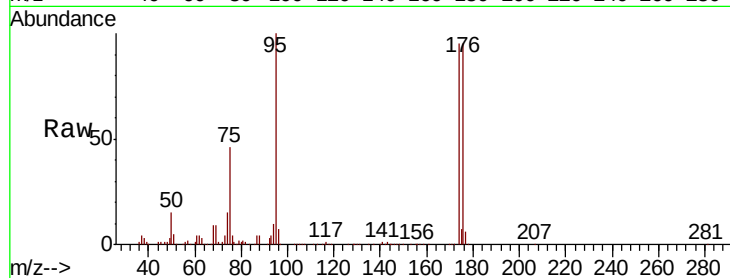
Tgt Ion: 75 Resp: 249981

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN057115.D (-3114) (-)

Ion 53.00 (52.70 to 53.70): VN057115.D (-3114) (-)

Ion 88.90 (88.60 to 89.60): VN057115.D (-3114) (-)

200000

150000

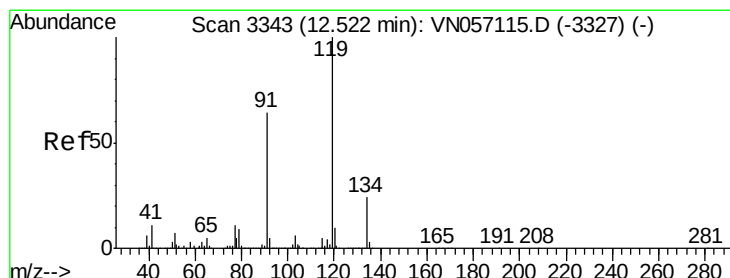
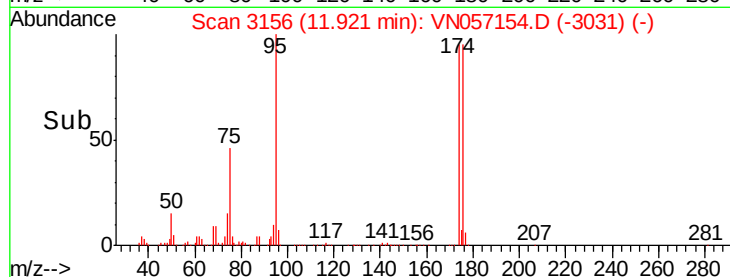
100000

50000

0

11.85 11.90 11.95 12.00

Time-->



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

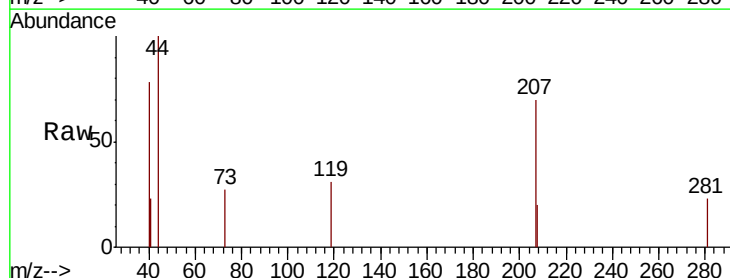
Tgt Ion: 119 Resp: 158

Ion Ratio Lower Upper

119 100

91 0.0 31.4 94.2#

134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): VN057115.D (-3327) (-)

Ion 91.00 (90.70 to 91.70): VN057115.D (-3327) (-)

Ion 134.00 (133.70 to 134.70): VN057115.D (-3327) (-)

300

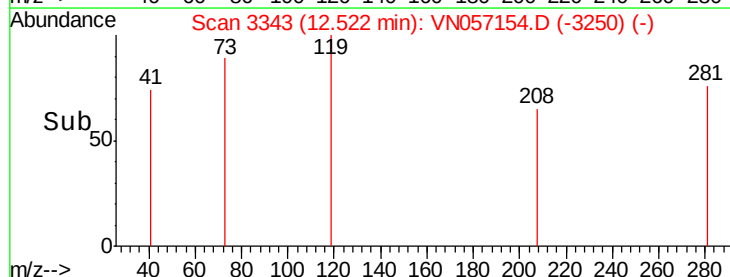
200

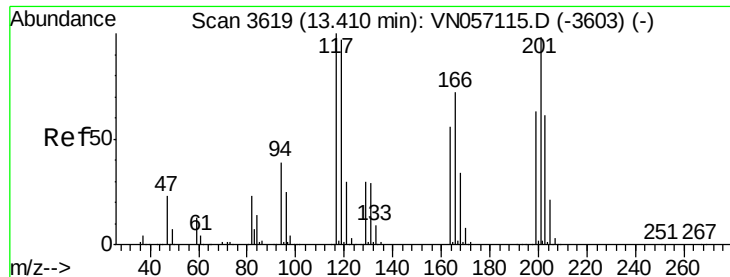
100

0

12.52 12.54

Time-->





#90

Hexachloroethane

Concen: Below Cal

RT: 13.53 min Scan# 3655

Delta R.T. 0.12 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampled :

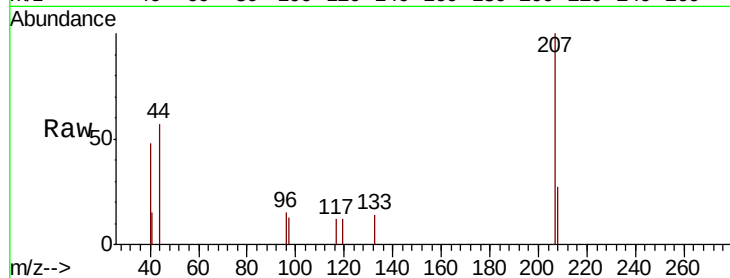
TP-22

Tgt Ion:117 Resp: 60

Ion Ratio Lower Upper

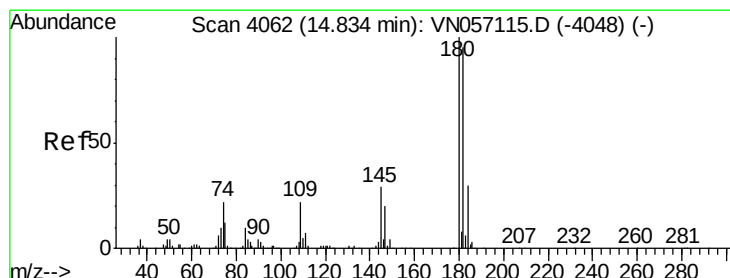
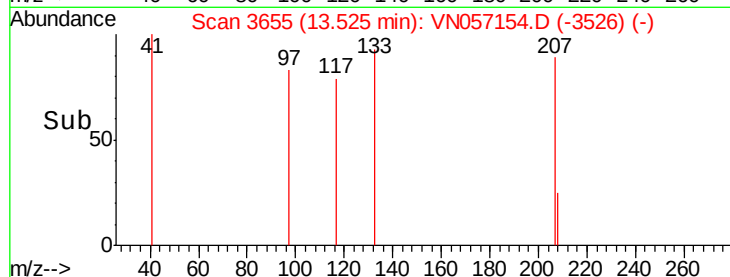
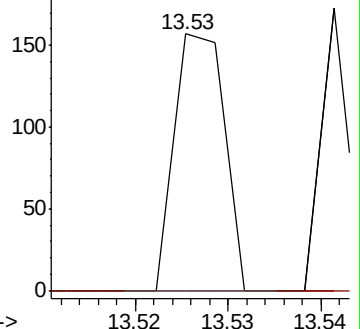
117 100

201 0.0 49.3 147.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#96

1,2,3-Trichlorobenzene

Concen: 5.734 ug/l

RT: 14.84 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VN057154.D

Acq: 9 Aug 2019 18:22

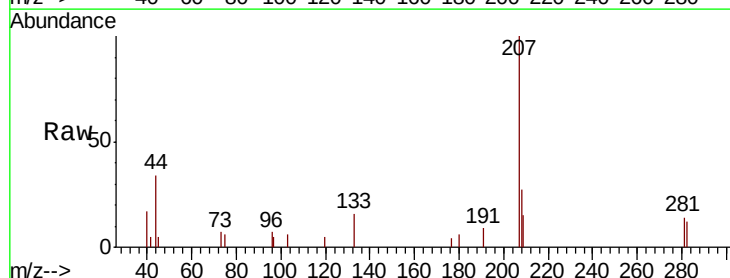
Tgt Ion:180 Resp: 79

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.8#

145 0.0 14.9 44.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

