

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057983.D
 Acq On : 12 Sep 2019 20:49
 Operator : JC/SP
 Sample : K4680-21
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-1-(0)

Quant Time: Sep 13 04:50:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	266118	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	468169	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	429574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	220627	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	317654	58.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.86%	
35) Dibromofluoromethane	7.58	113	217898	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
50) Toluene-d8	10.09	98	839136	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.41	95	278451	43.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.10%	

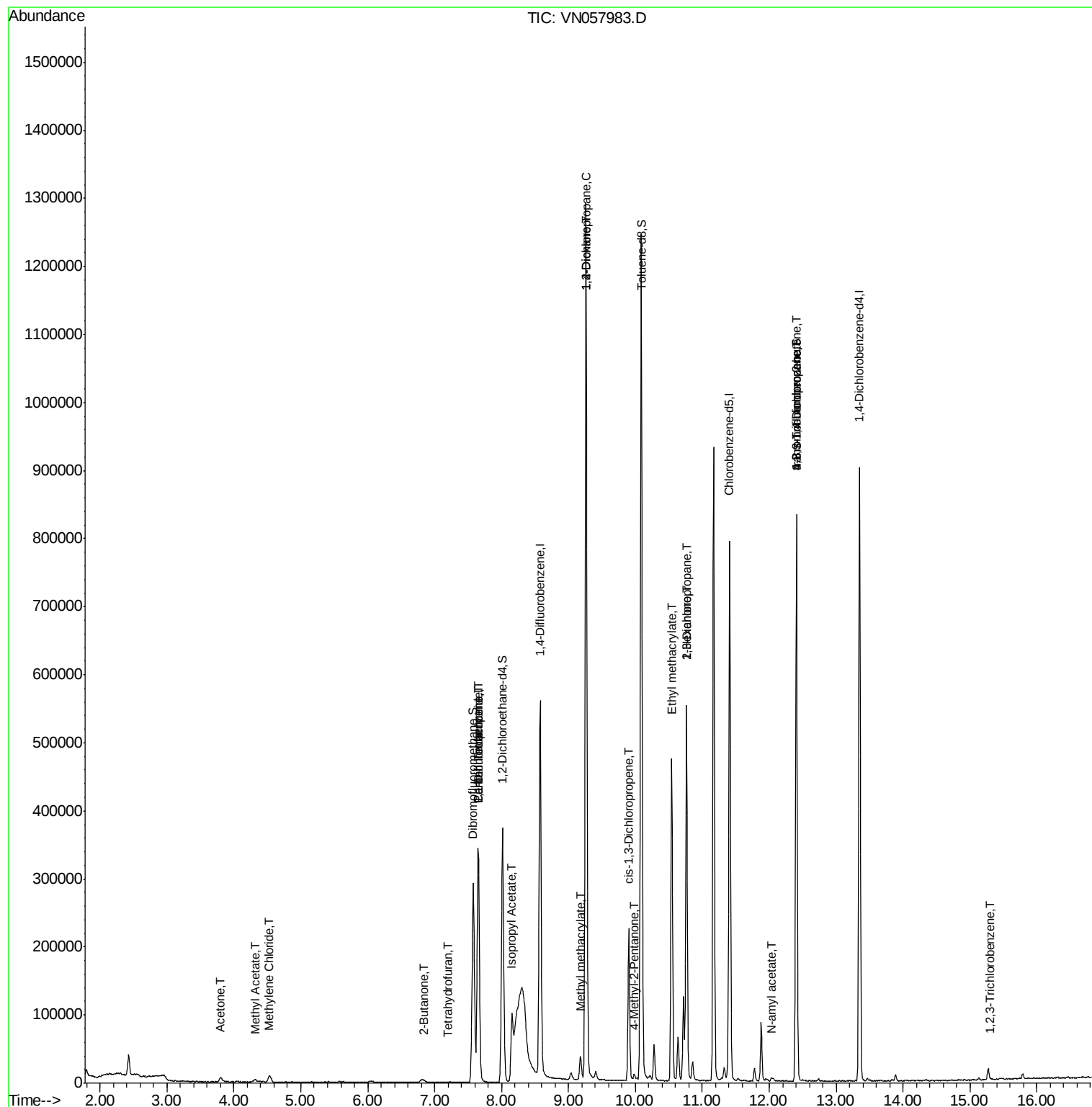
Target Compounds					Qvalue
5) Bromomethane	2.55	94	366	Below Cal	82
16) Acetone	3.80	43	11735	6.641 ug/l	92
18) Methyl Acetate	4.32	43	7848	1.666 ug/l #	78
20) Methylene Chloride	4.53	84	7078	0.895 ug/l	94
25) 2-Butanone	6.84	43	2227	0.871 ug/l #	49
29) Tetrahydrofuran	7.20	42	844	0.536 ug/l #	34
31) Cyclohexane	7.65	56	7271	Below Cal #	16
36) 1,1-Dichloropropene	7.65	75	23660	4.358 ug/l #	50
38) Carbon Tetrachloride	7.65	117	28522	5.754 ug/l #	17
43) Isopropyl Acetate	8.16	43	119159	12.631 ug/l #	80
45) 1,2-Dichloropropane	9.26	63	1692	0.356 ug/l #	44
48) Methyl methacrylate	9.17	41	5157	1.078 ug/l #	13
49) 1,4-Dioxane	9.27	88	31	0.383 ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7252	1.299 ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	36770	5.510 ug/l #	68
56) Ethyl methacrylate	10.54	69	1838	0.280 ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5061	0.673 ug/l #	43
59) 2-Hexanone	10.76	43	86824	20.750 ug/l #	54
74) N-amyl acetate	12.03	43	2007	0.269 ug/l #	46
76) 1,2,3-Trichloropropane	12.41	75	154212	30.898 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	154212	108.731 ug/l #	6
95) Naphthalene	15.14	128	2857	Below Cal #	94
96) 1,2,3-Trichlorobenzene	15.31	180	611	1.132 ug/l #	47

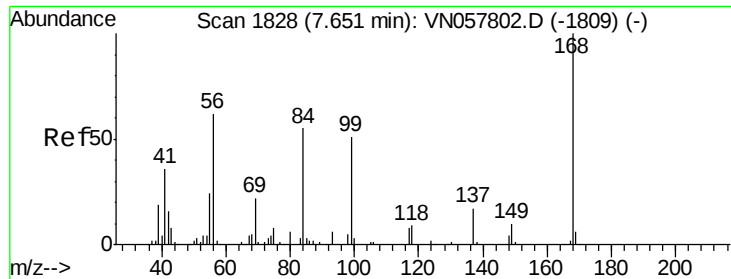
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
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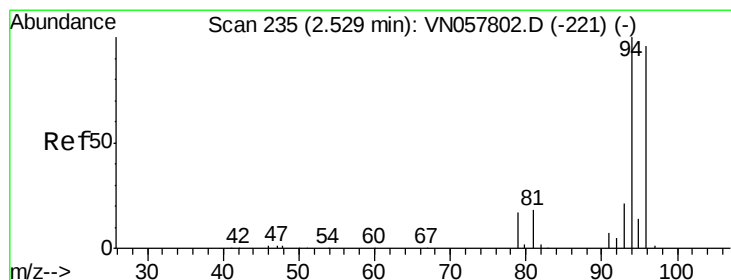
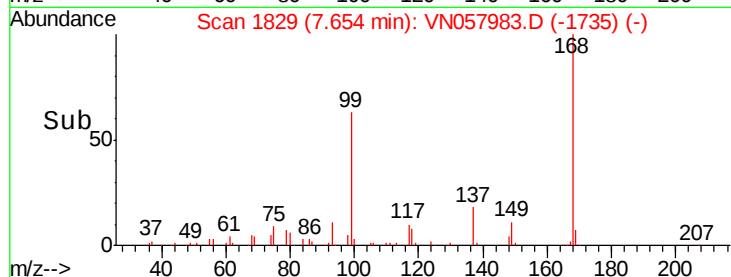
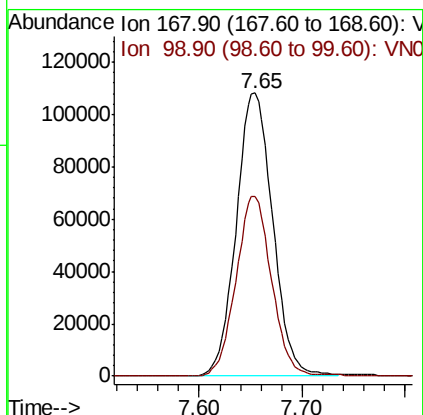
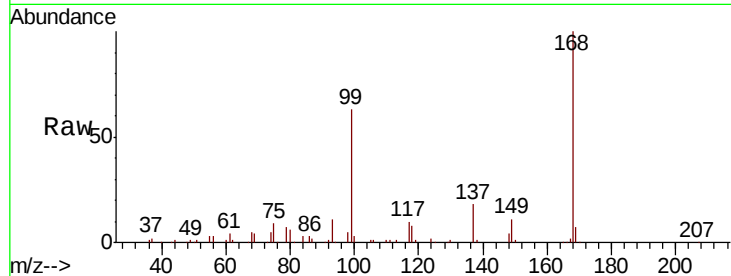




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

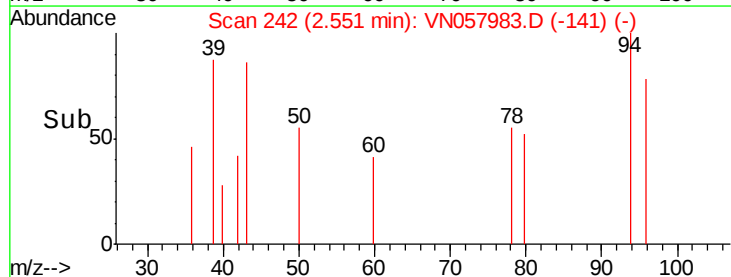
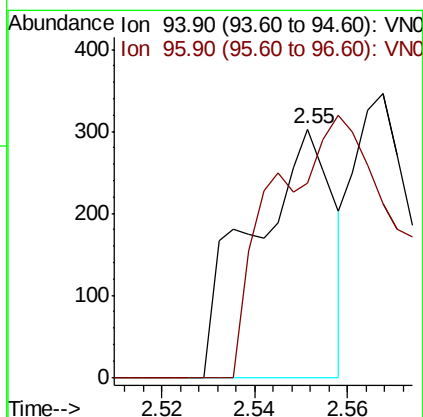
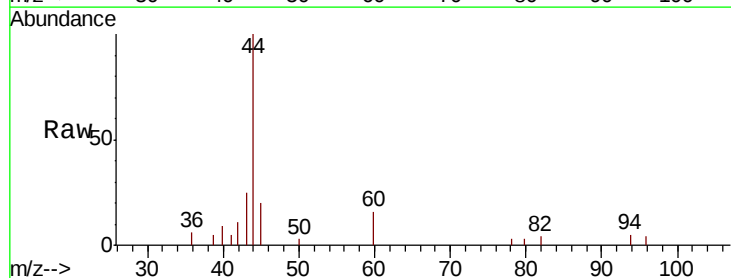
Instrument :
MSVOA_N
ClientSampleId :
T1-1-(0)

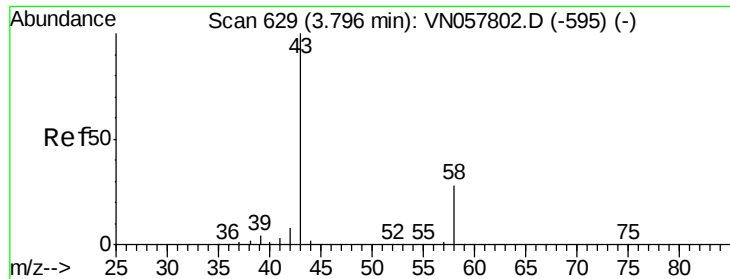
Tgt Ion:168 Resp: 266118
Ion Ratio Lower Upper
168 100
99 63.3 48.0 72.0



#5
Bromomethane
Concen: Below Cal
RT: 2.55 min Scan# 242
Delta R.T. 0.02 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

Tgt Ion: 94 Resp: 366
Ion Ratio Lower Upper
94 100
96 78.2 77.0 115.4

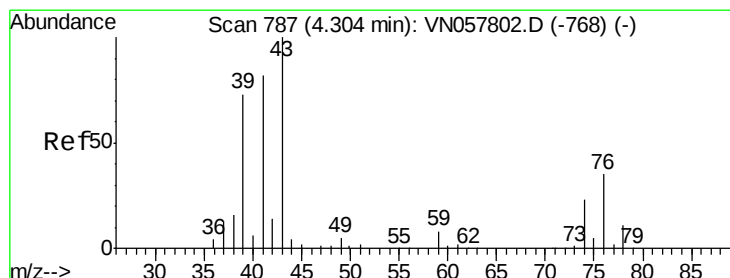
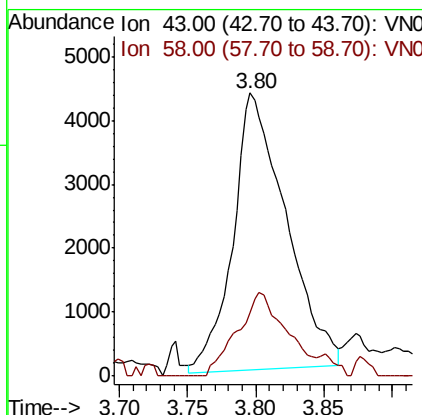
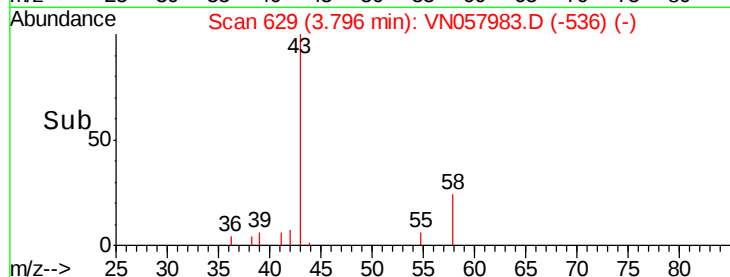
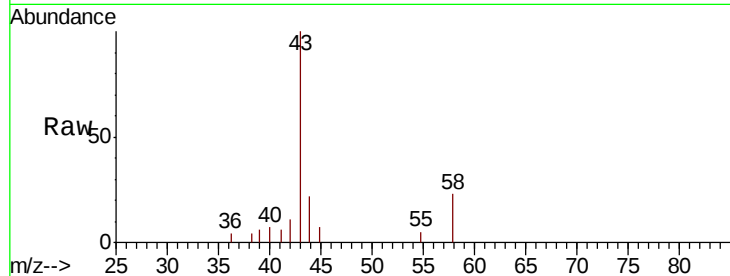




#16
Acetone
Concen: 6.641 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.00 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

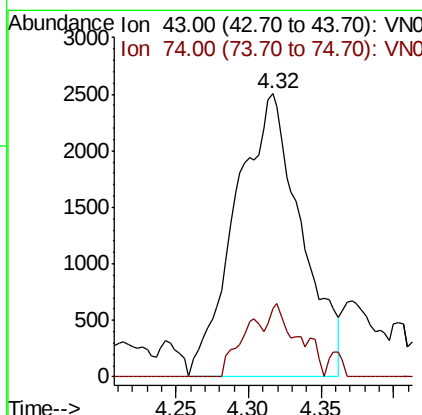
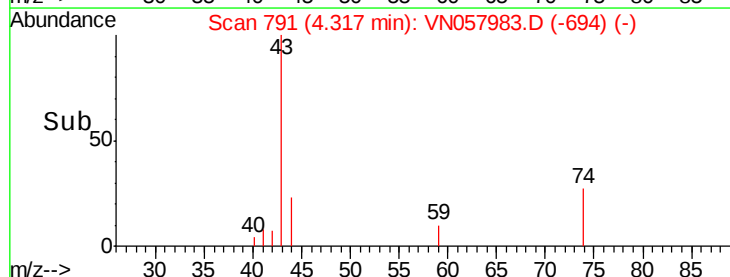
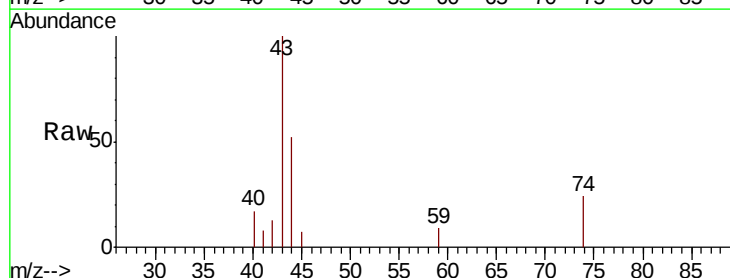
Instrument :
MSVOA_N
ClientSampleId :
T1-1-(0)

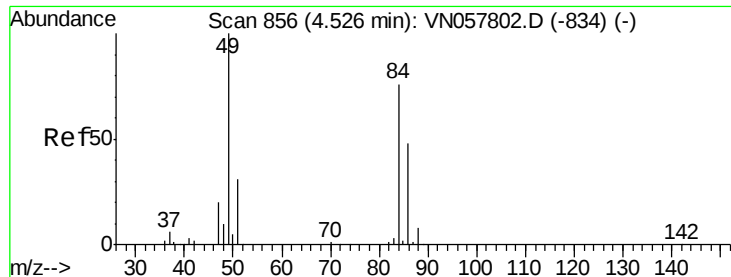
Tgt Ion: 43 Resp: 11735
Ion Ratio Lower Upper
43 100
58 23.4 22.2 33.2



#18
Methyl Acetate
Concen: 1.666 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

Tgt Ion: 43 Resp: 7848
Ion Ratio Lower Upper
43 100
74 11.8 17.9 26.9#

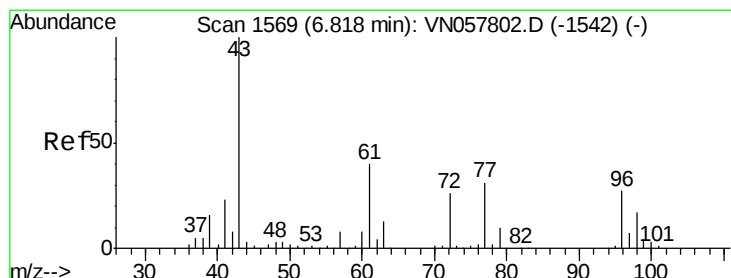
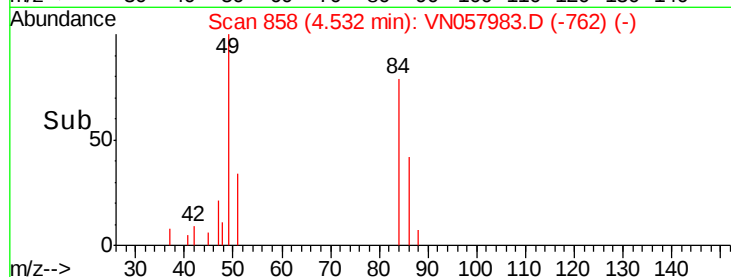
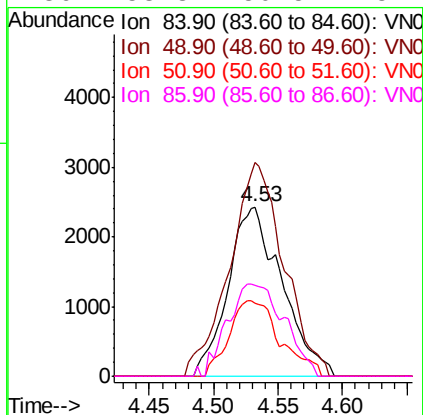
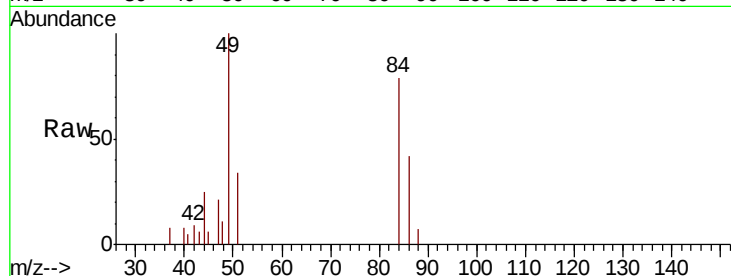




#20
Methylene Chloride
Concen: 0.895 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

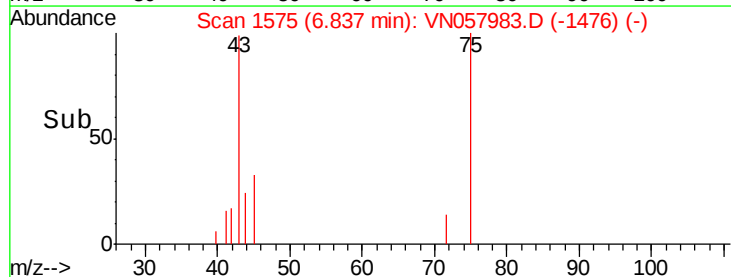
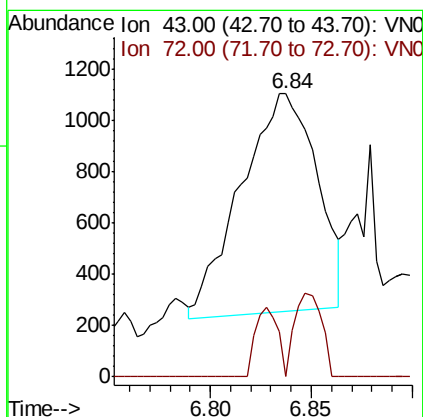
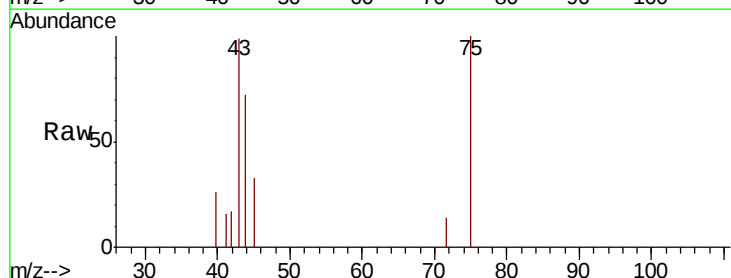
Instrument :
MSVOA_N
ClientSampleId :
T1-1-(0)

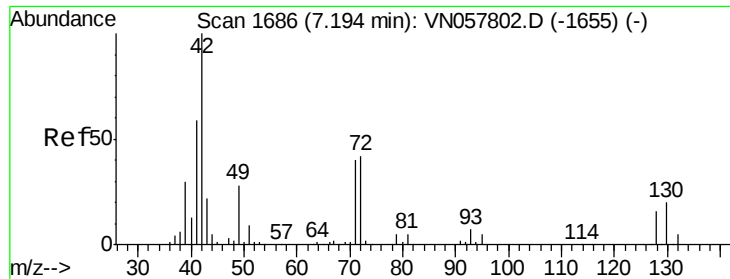
Tgt Ion: 84 Resp: 7078
Ion Ratio Lower Upper
84 100
49 126.0 104.8 157.2
51 43.2 33.0 49.4
86 53.3 50.5 75.7



#25
2-Butanone
Concen: 0.871 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

Tgt Ion: 43 Resp: 2227
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.536 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T1-1-(0)

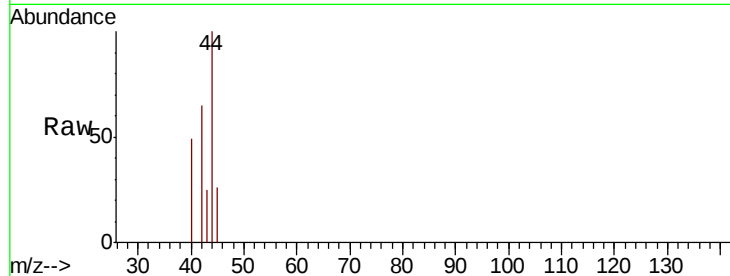
Tgt Ion: 42 Resp: 844

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.9 47.9#

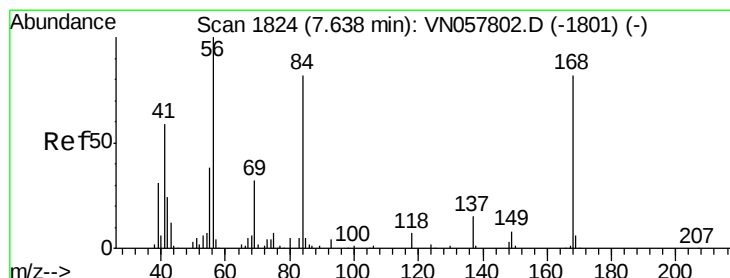
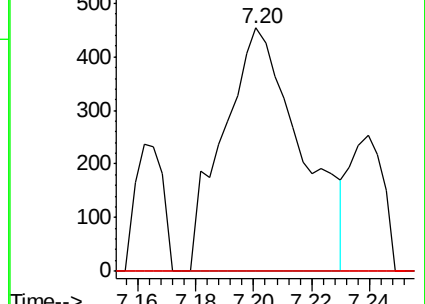
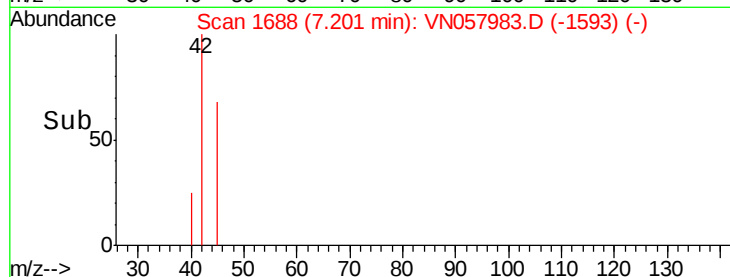


Abundance Ion 42.00 (41.70 to 42.70): VN057802.D (-1655) (-)

Ion 72.00 (71.70 to 72.70): VN057802.D (-1655) (-)

Ion 71.00 (70.70 to 71.70): VN057802.D (-1655) (-)

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

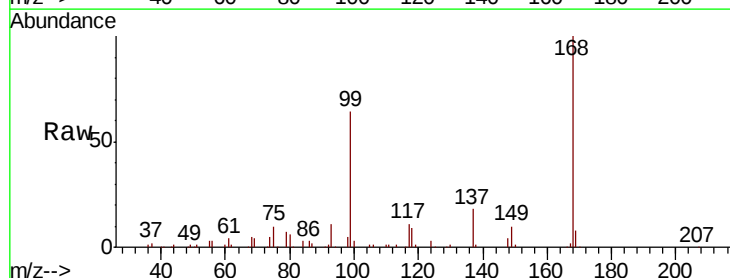
Tgt Ion: 56 Resp: 7271

Ion Ratio Lower Upper

56 100

69 157.2 25.9 38.9#

84 108.6 65.6 98.4#

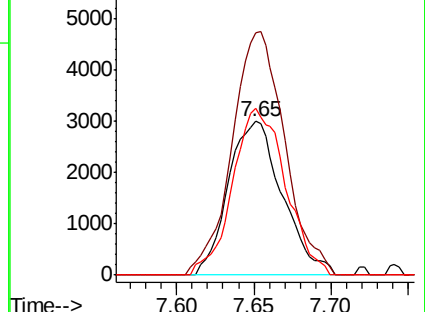
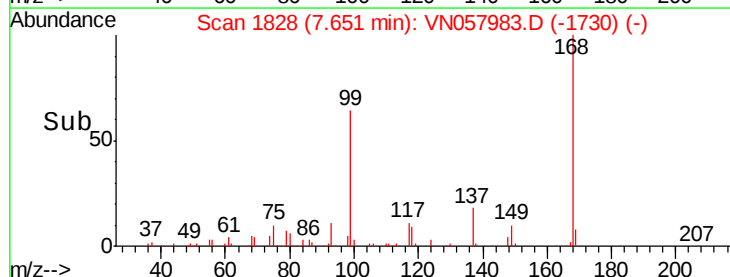


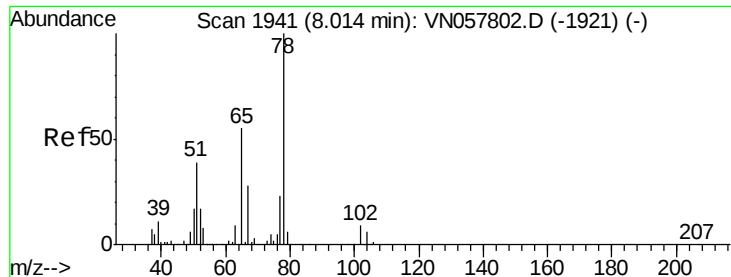
Abundance Ion 56.00 (55.70 to 56.70): VN057802.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN057802.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN057802.D (-1801) (-)

Time-->

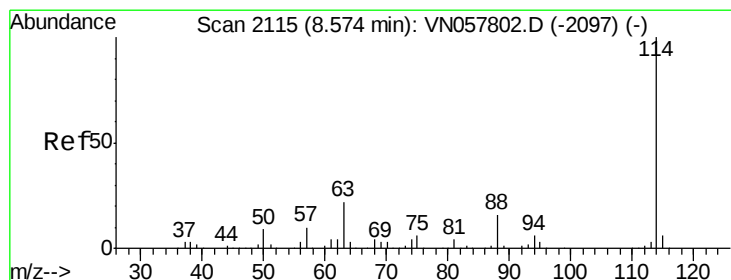
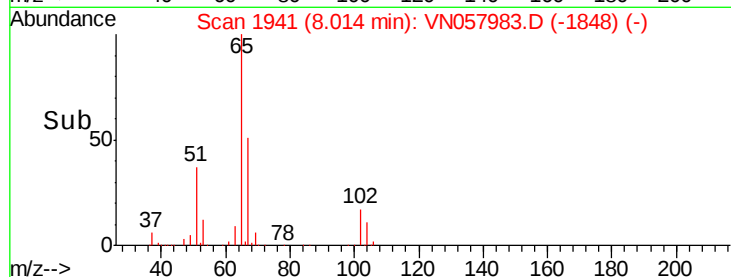
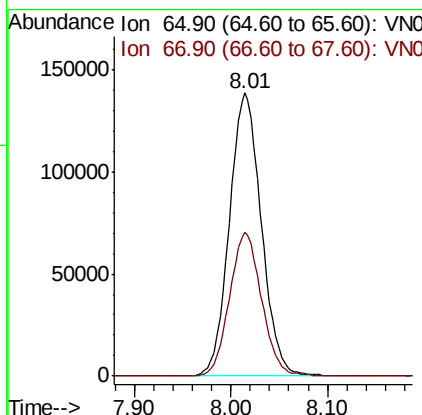
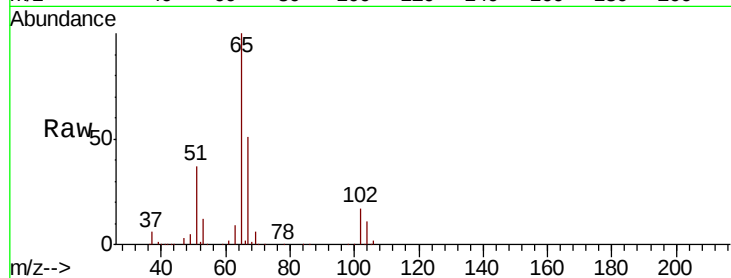




#33
 1,2-Dichloroethane-d4
 Concen: 58.934 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

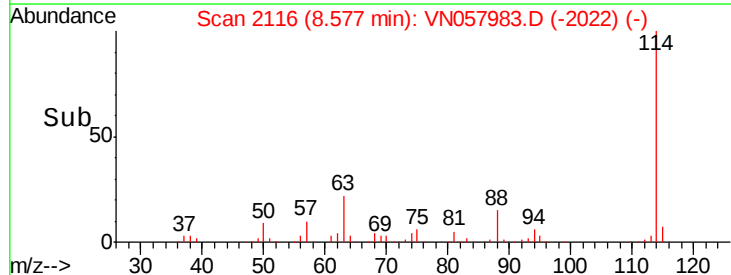
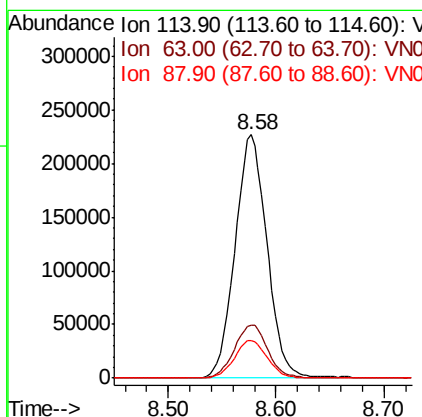
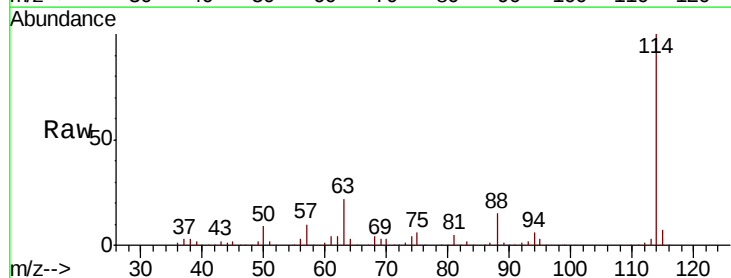
Instrument :
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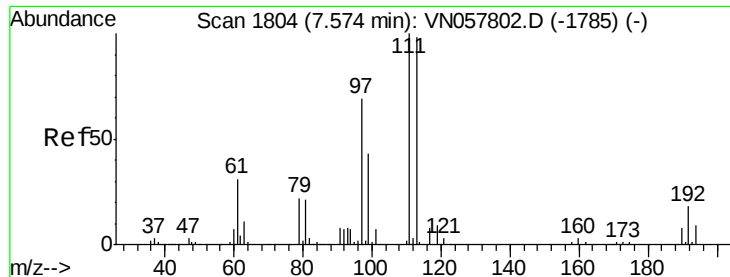
Tgt Ion: 65 Resp: 317654
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

Tgt Ion: 114 Resp: 468169
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.0
 88 15.3 0.0 31.4

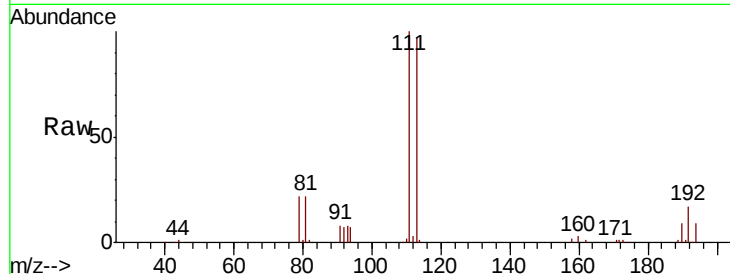




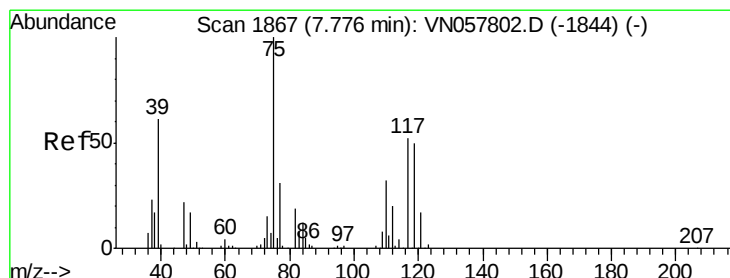
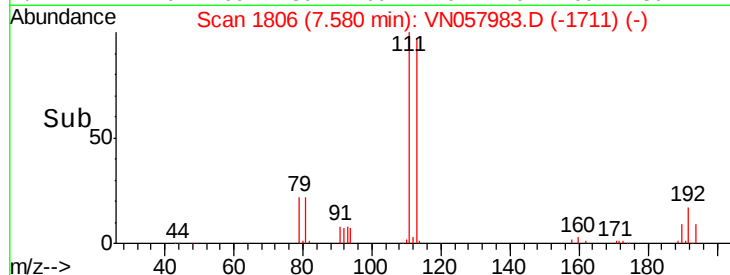
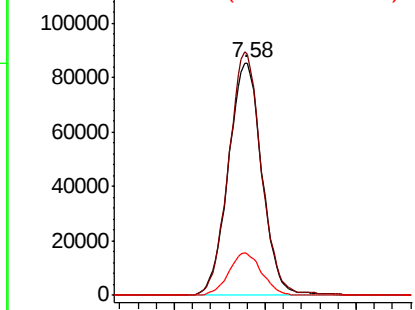
#35
 Dibromofluoromethane
 Concen: 50.428 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-1-(0)

Tgt Ion: 113 Resp: 217898
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.3 121.9
 192 18.2 14.6 22.0

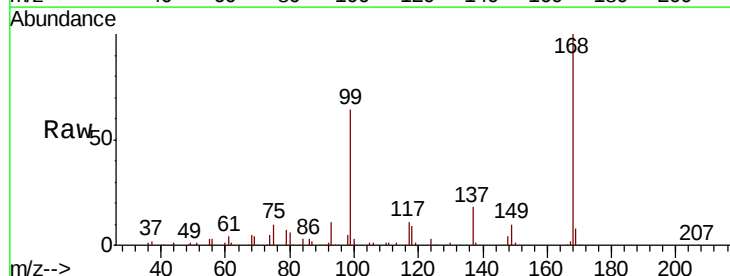


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

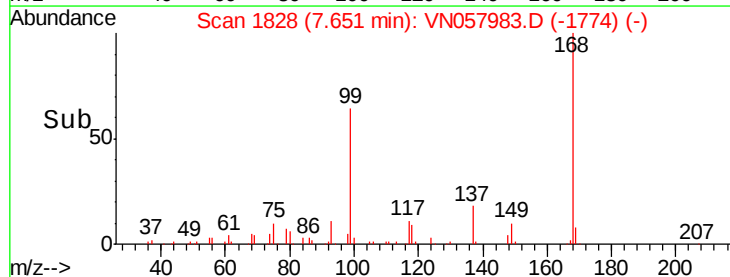
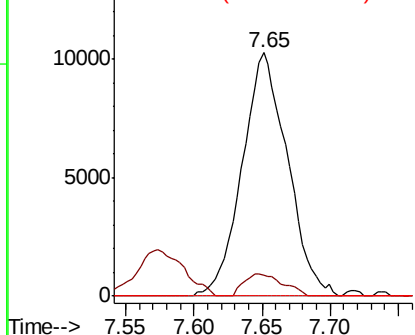


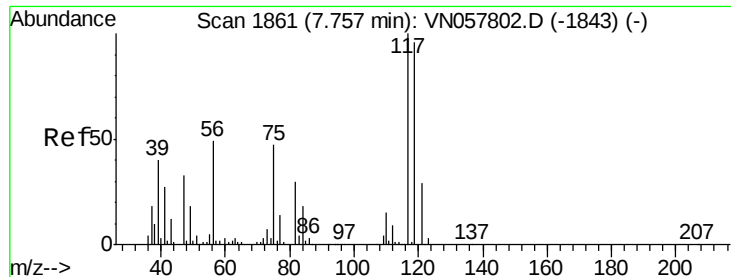
#36
 1,1-Dichloropropene
 Concen: 4.358 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

Tgt Ion: 75 Resp: 23660
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.3 48.9#
 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

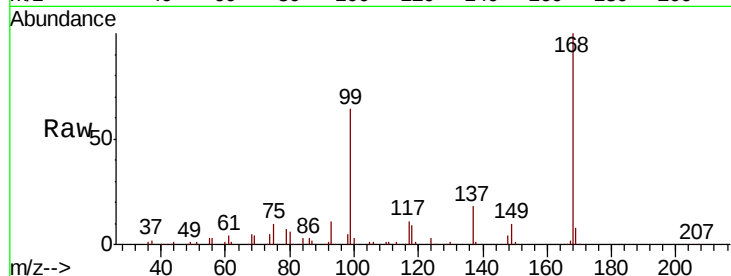




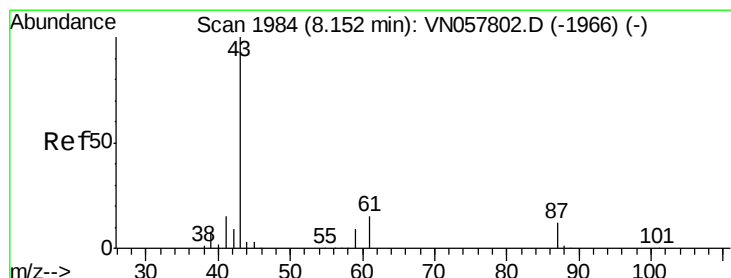
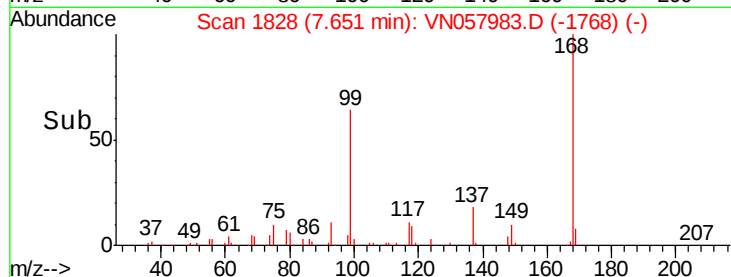
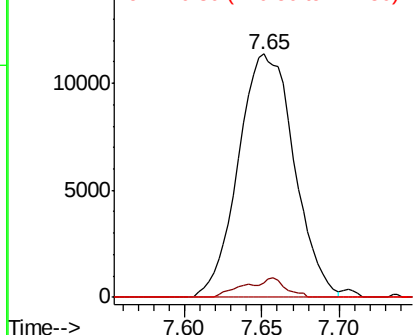
#38
Carbon Tetrachloride
Concen: 5.754 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

Instrument :
MSVOA_N
ClientSampled :
T1-1-(0)

Tgt Ion: 117 Resp: 28522
Ion Ratio Lower Upper
117 100
119 6.0 76.9 115.3#
121 0.0 23.4 35.2#

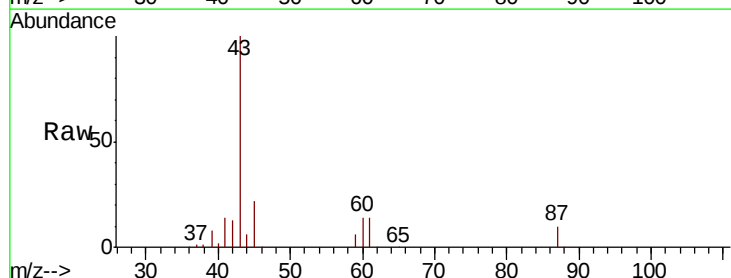


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

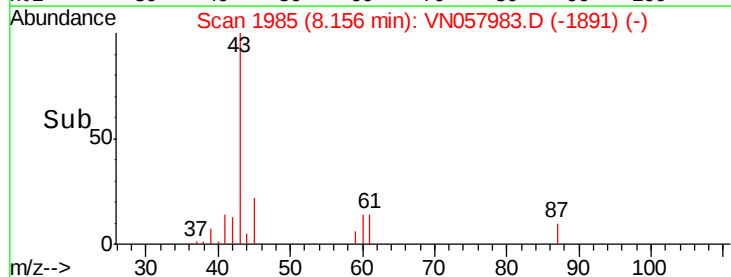
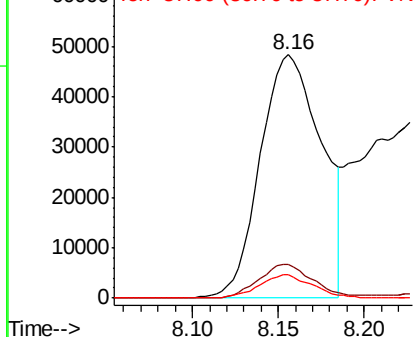


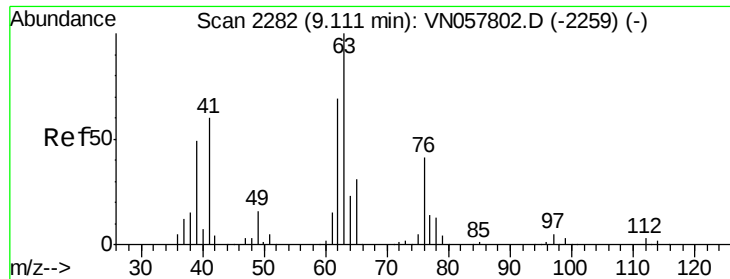
#43
Isopropyl Acetate
Concen: 12.631 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057983.D
Acq: 12 Sep 2019 20:49

Tgt Ion: 43 Resp: 119159
Ion Ratio Lower Upper
43 100
61 12.4 20.1 30.1#
87 8.4 9.5 14.3#



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

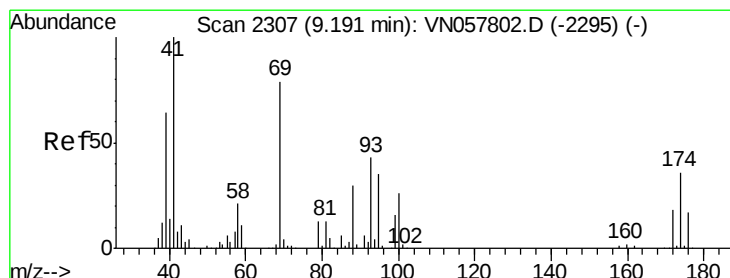
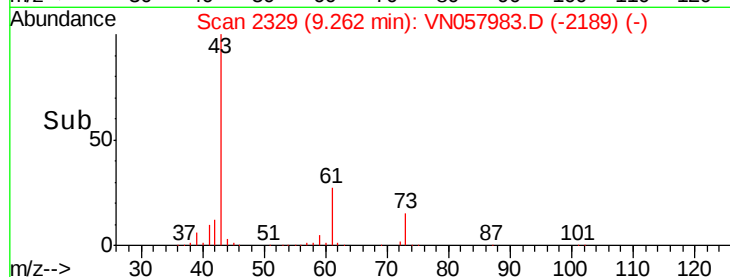
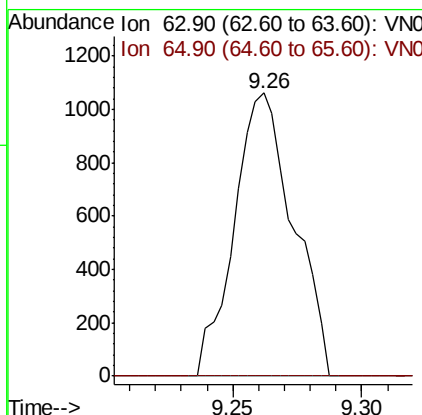
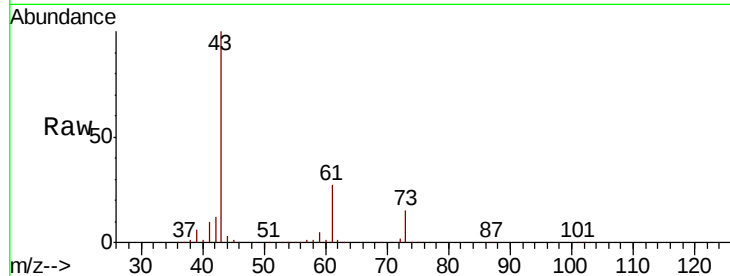




#45
 1,2-Dichloropropane
 Concen: 0.356 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

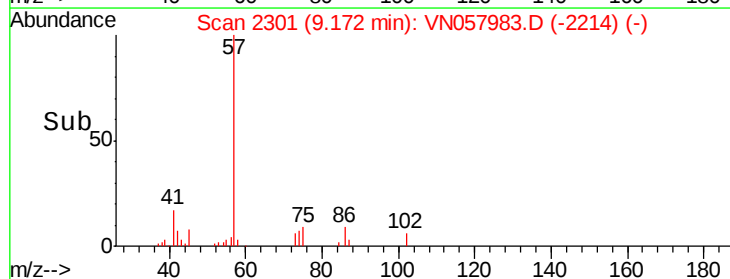
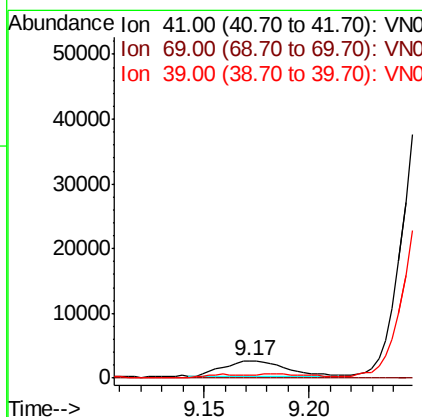
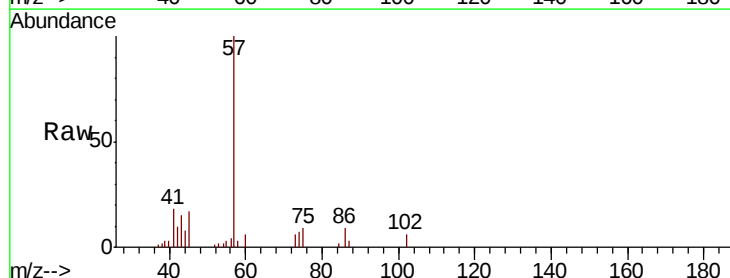
Instrument :
 MSVOA_N
 ClientSampleId :
 T1-1-(0)

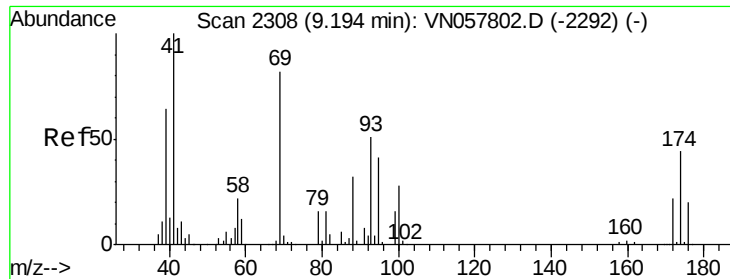
Tgt Ion: 63 Resp: 1692
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.078 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

Tgt Ion: 41 Resp: 5157
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 0.383 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.08 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T1-1-(0)

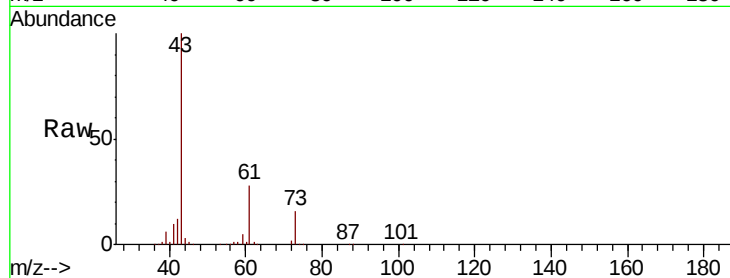
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 4078222.6 28.5 42.7#

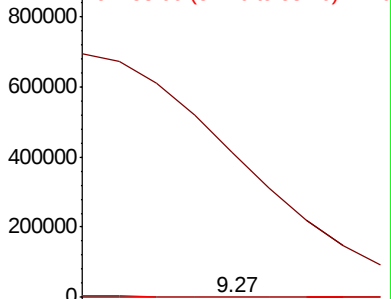
58 21400.0 55.8 83.6#



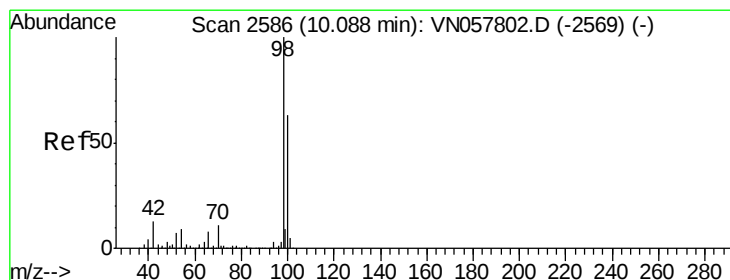
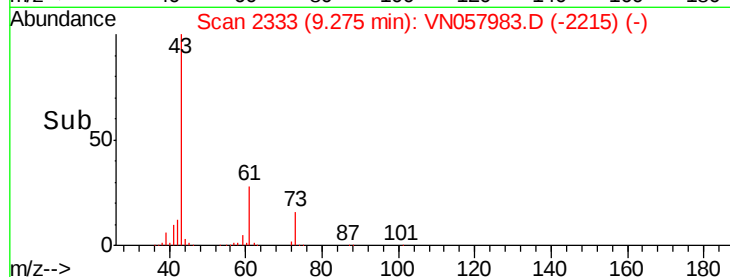
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#50

Toluene-d8

Concen: 50.019 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057983.D

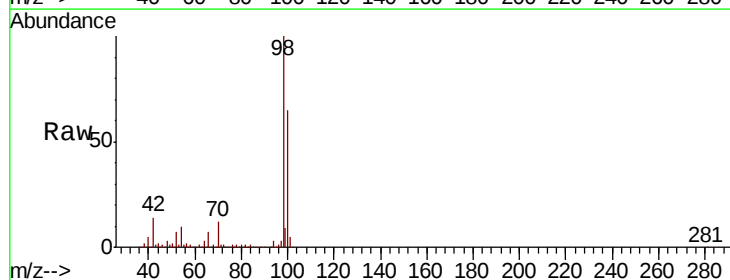
Acq: 12 Sep 2019 20:49

Tgt Ion: 98 Resp: 839136

Ion Ratio Lower Upper

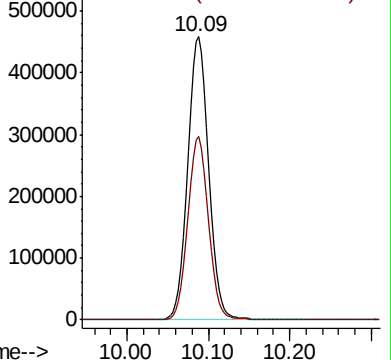
98 100

100 64.0 50.3 75.5

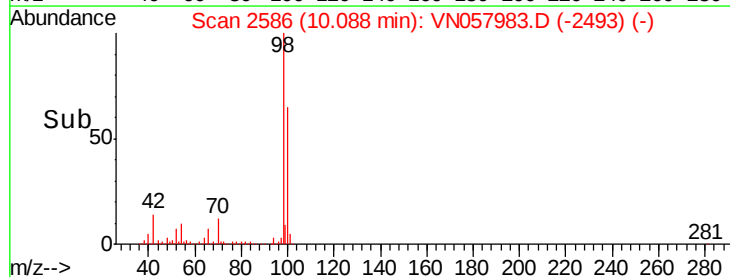


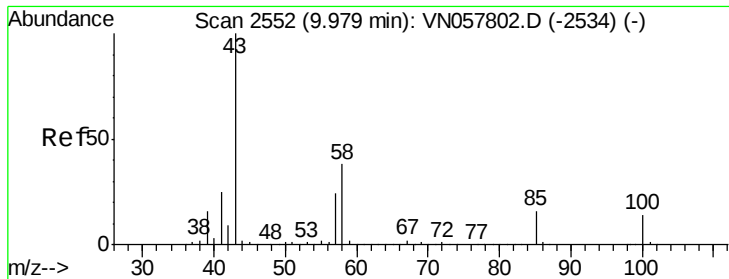
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.299 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampled :

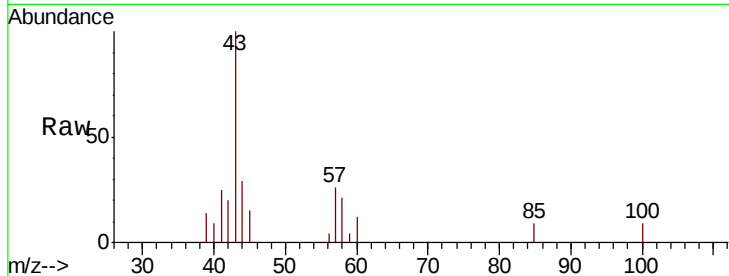
T1-1-(0)

Tgt Ion: 43 Resp: 7252

Ion Ratio Lower Upper

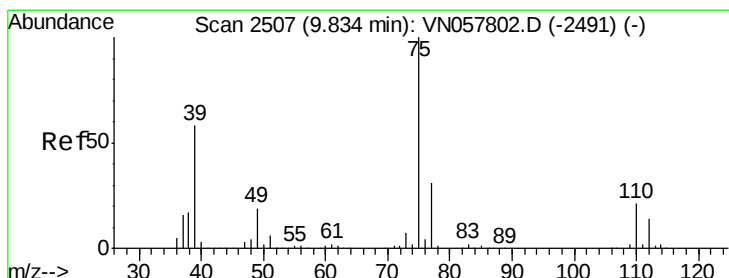
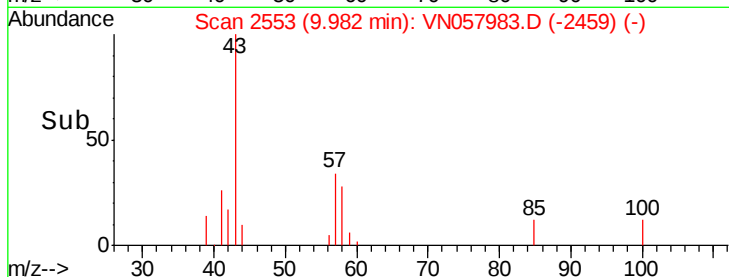
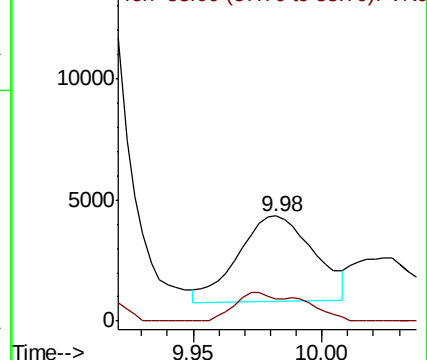
43 100

58 30.6 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.510 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

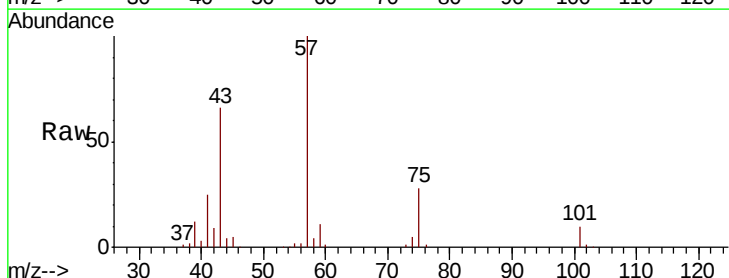
Tgt Ion: 75 Resp: 36770

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

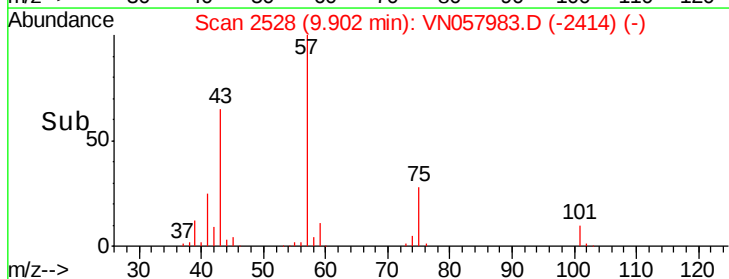
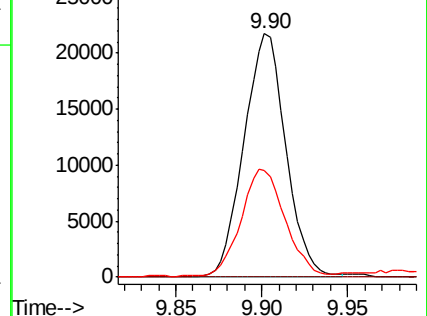
39 43.3 46.2 69.4#

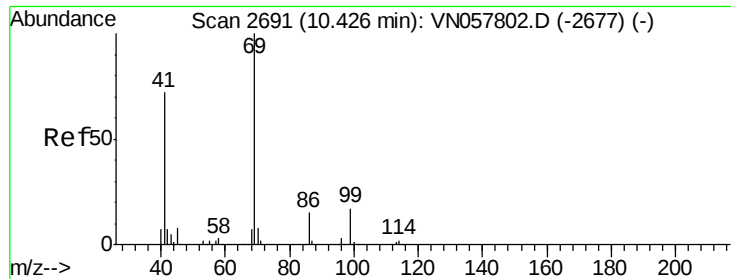


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

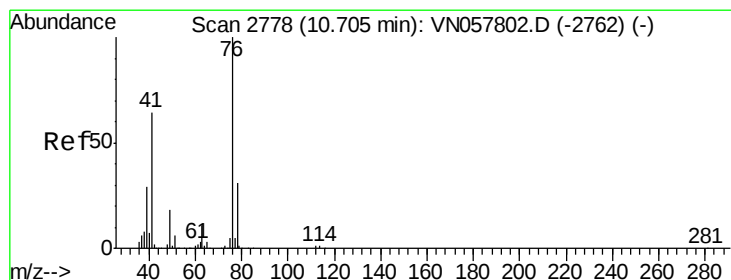
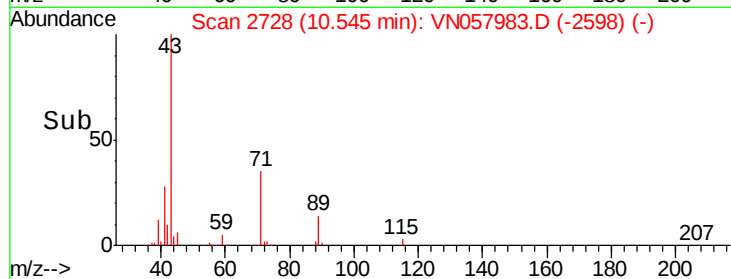
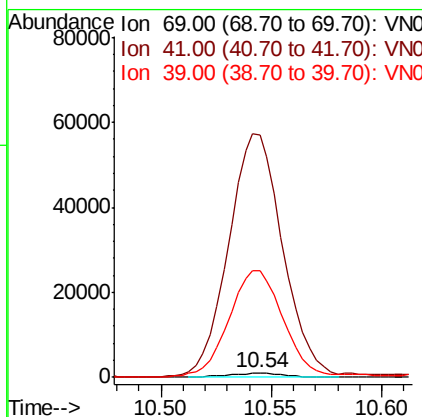
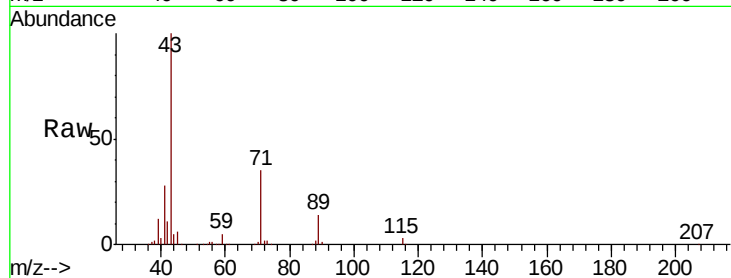




#56
 Ethyl methacrylate
 Concen: 0.280 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

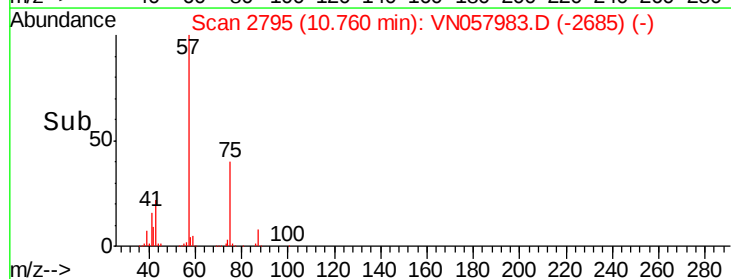
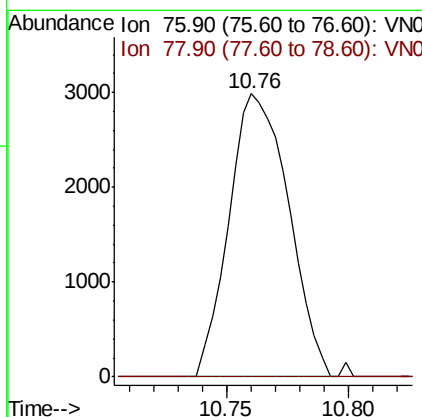
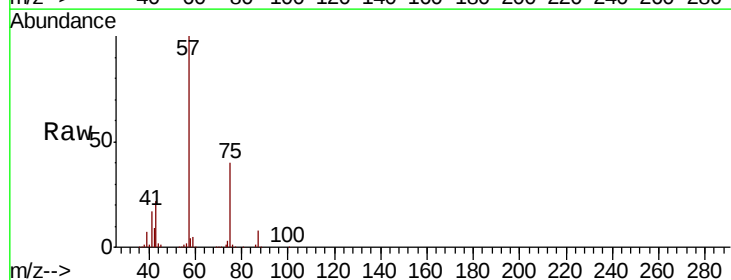
Instrument :
 MSVOA_N
 ClientSampleId :
 T1-1-(0)

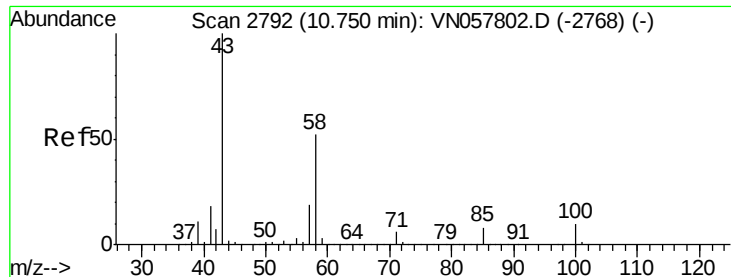
Tgt Ion: 69 Resp: 1838
 Ion Ratio Lower Upper
 69 100
 41 5298.2 56.7 85.1#
 39 2311.6 36.3 54.5#



#57
 1,3-Dichloropropane
 Concen: 0.673 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

Tgt Ion: 76 Resp: 5061
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 20.750 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

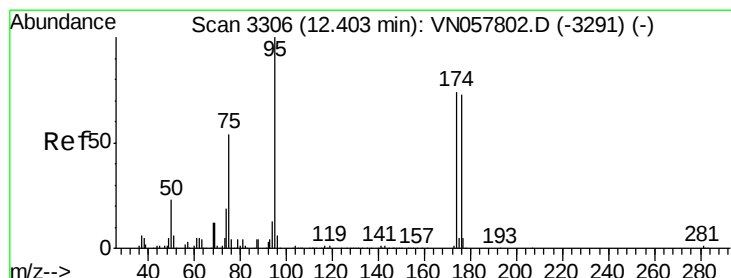
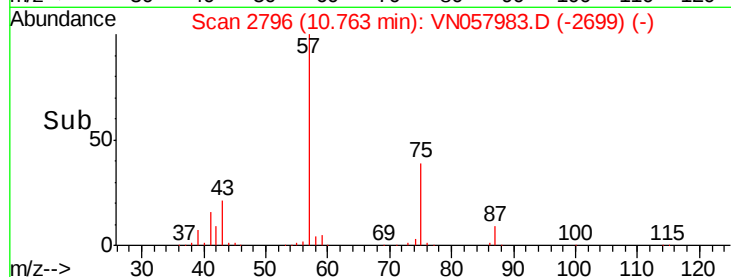
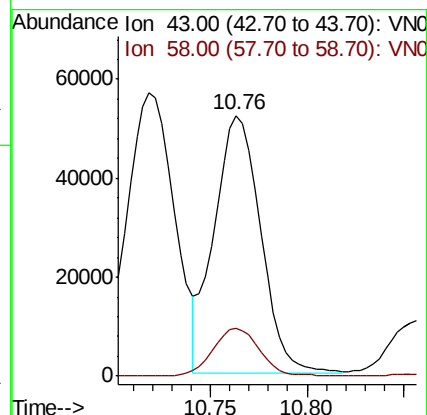
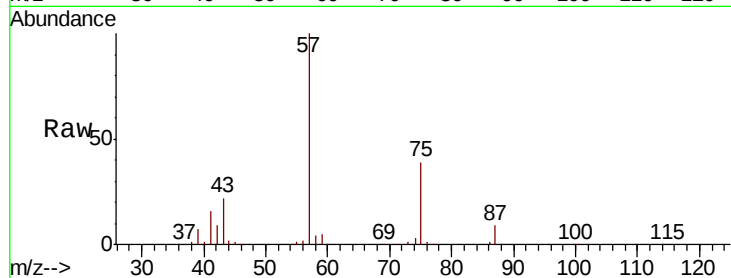
T1-1-(0)

Tgt Ion: 43 Resp: 86824

Ion Ratio Lower Upper

43 100

58 18.9 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 43.553 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

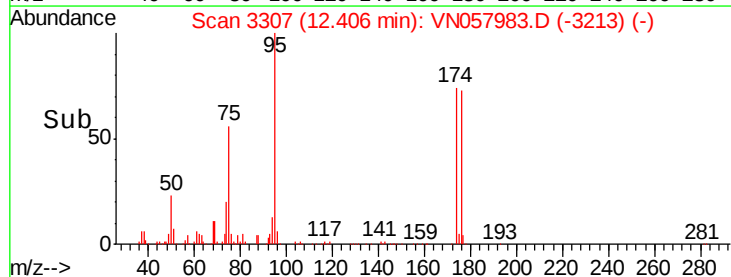
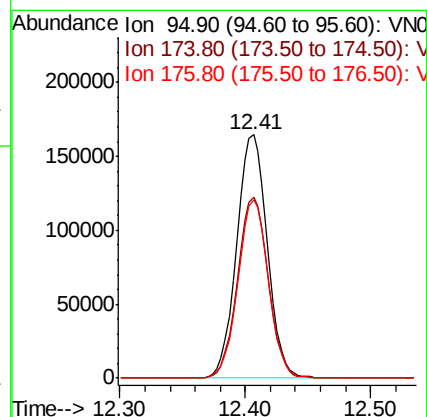
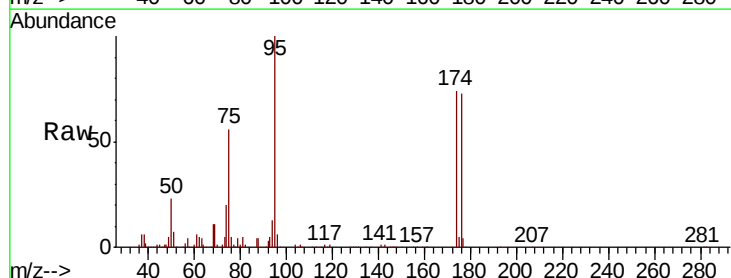
Tgt Ion: 95 Resp: 278451

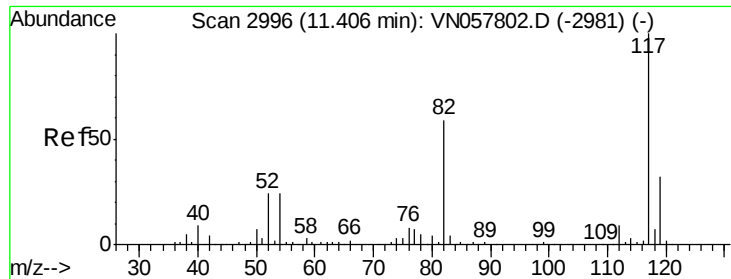
Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.2

176 72.8 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T1-1-(0)

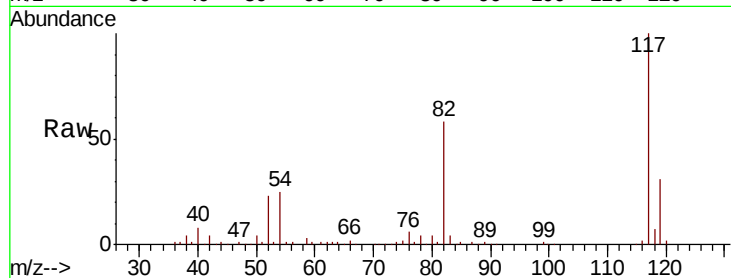
Tgt Ion:117 Resp: 429574

Ion Ratio Lower Upper

117 100

82 58.0 47.2 70.8

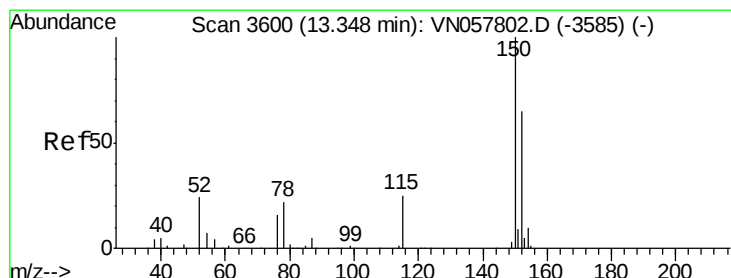
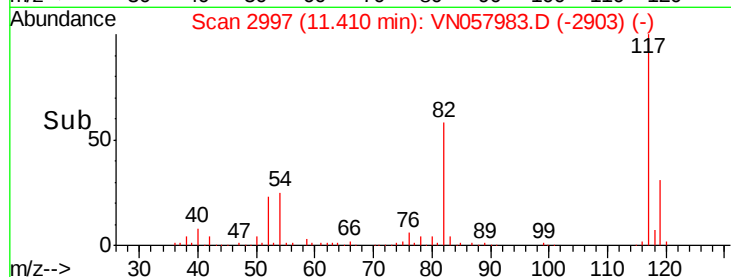
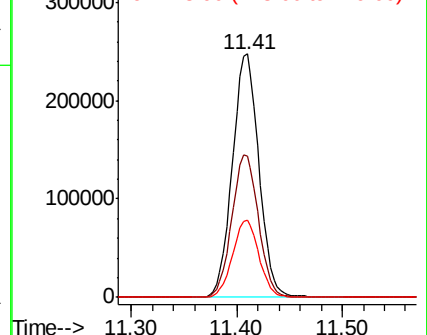
119 31.5 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

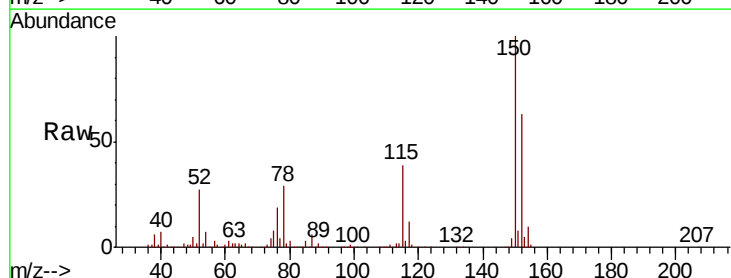
Tgt Ion:152 Resp: 220627

Ion Ratio Lower Upper

152 100

115 62.0 30.3 91.0

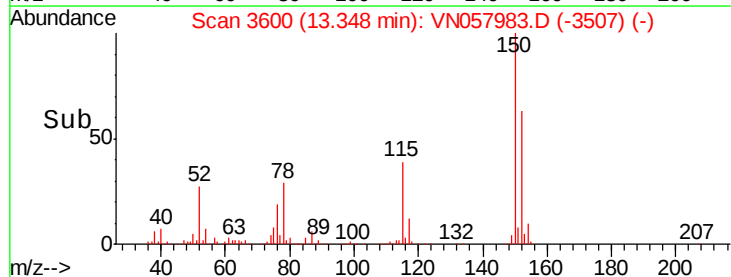
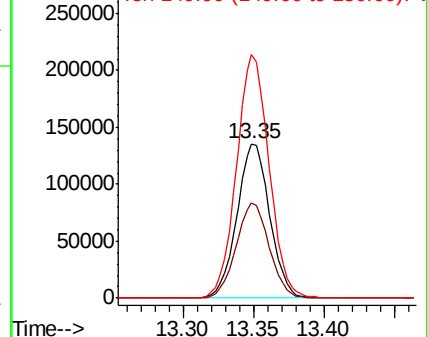
150 157.0 0.0 352.4

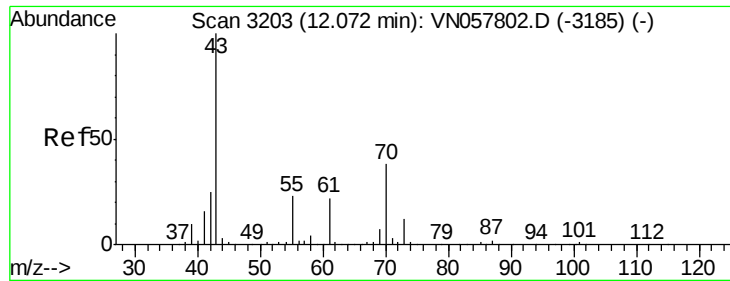


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.269 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T1-1-(0)

Tgt Ion: 43 Resp: 2007

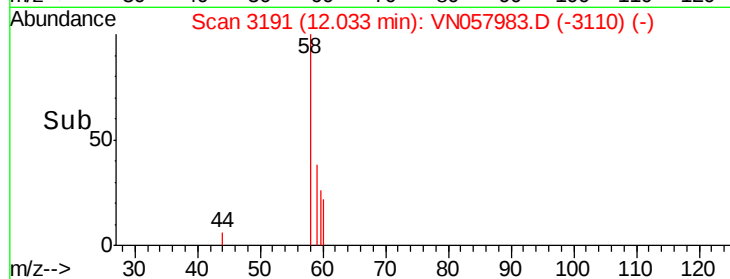
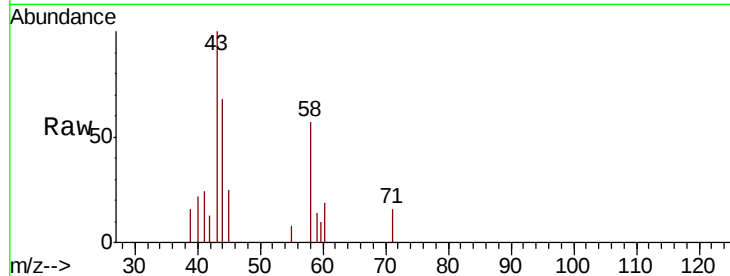
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#

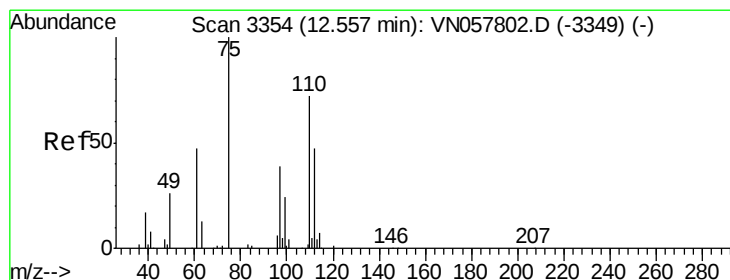
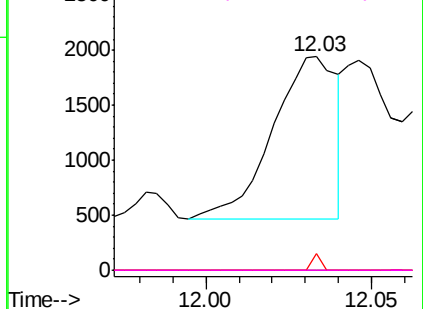


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.898 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057983.D

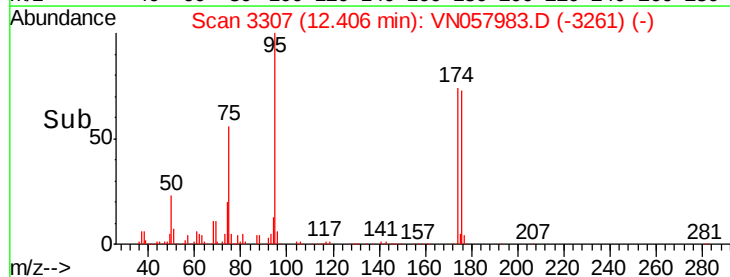
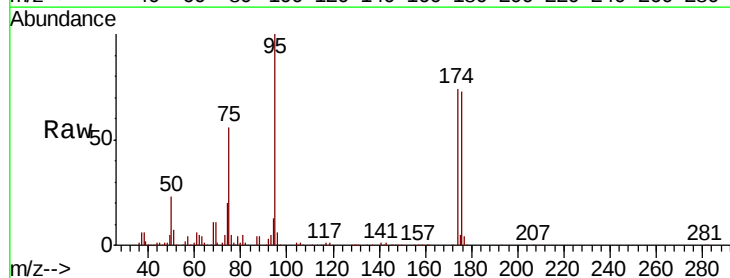
Acq: 12 Sep 2019 20:49

Tgt Ion: 75 Resp: 154212

Ion Ratio Lower Upper

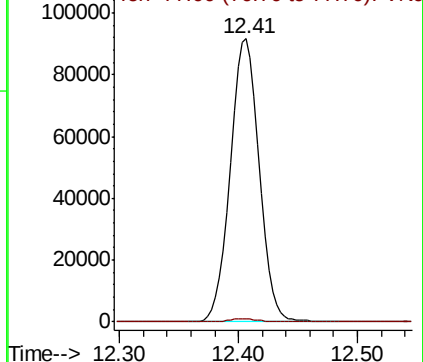
75 100

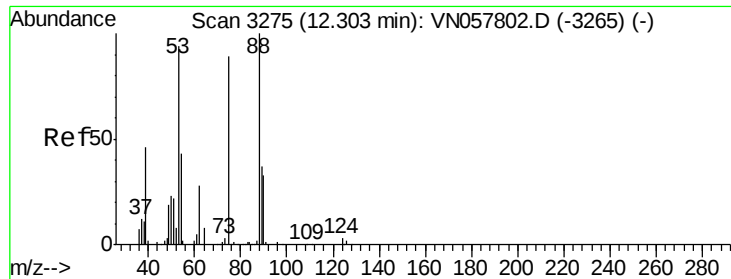
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 108.731 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampled :

T1-1-(0)

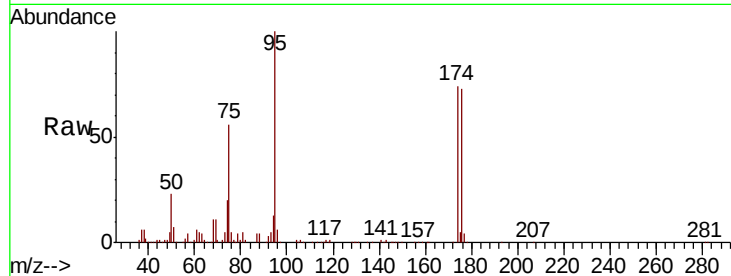
Tgt Ion: 75 Resp: 154212

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

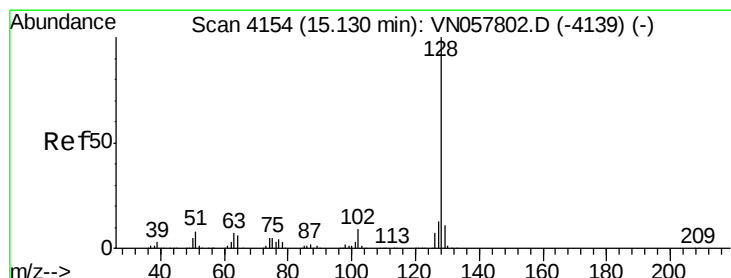
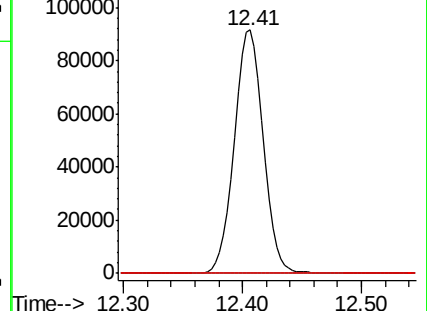
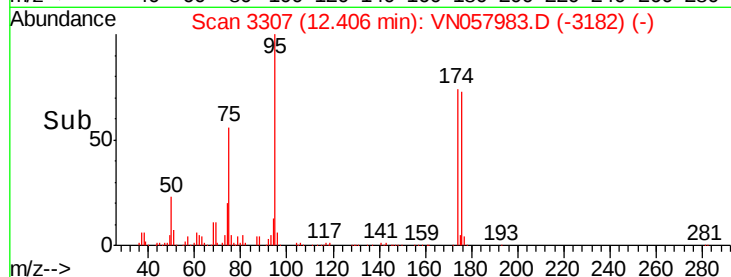
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057983.D

Acq: 12 Sep 2019 20:49

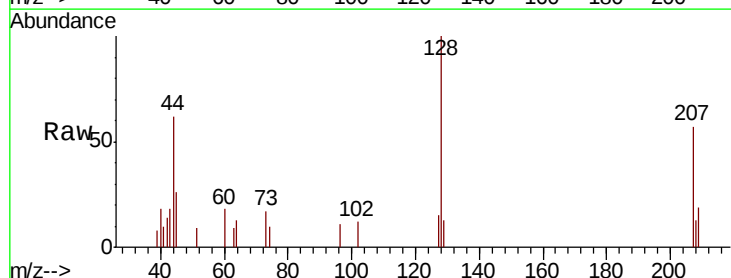
Tgt Ion: 128 Resp: 2857

Ion Ratio Lower Upper

128 100

127 13.6 10.3 15.5

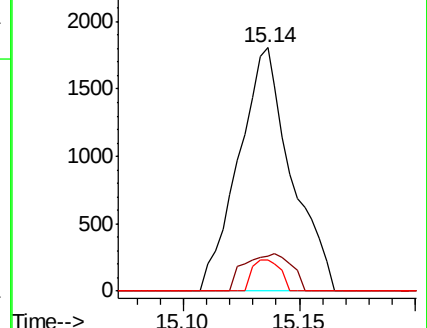
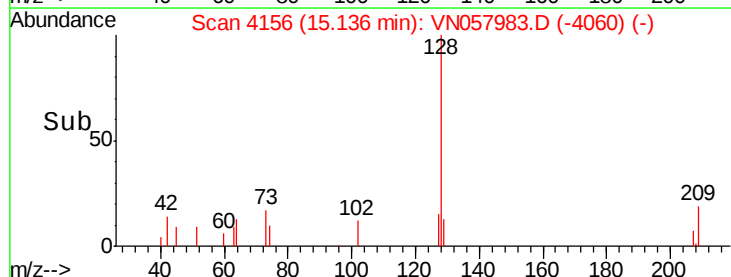
129 6.8 8.6 12.8#

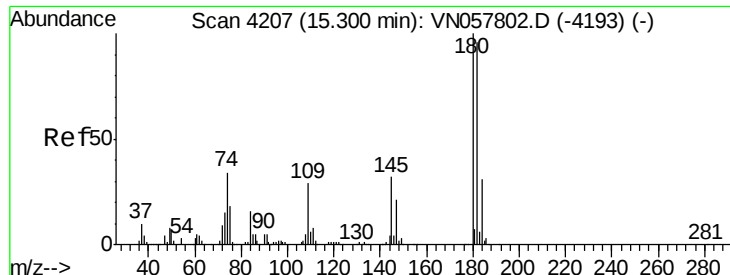


Abundance Ion 128.00 (127.70 to 128.70): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)

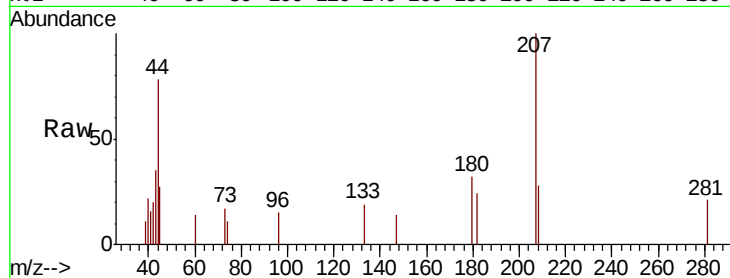




#96
 1,2,3-Trichlorobenzene
 Concen: 1.132 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.01 min
 Lab File: VN057983.D
 Acq: 12 Sep 2019 20:49

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-1-(0)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	46.6	48.3	144.8#
145	0.0	16.3	48.8#



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

