

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057820.D
 Acq On : 9 Sep 2019 22:47
 Operator : JC/SP
 Sample : K4603-27
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:12:05 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

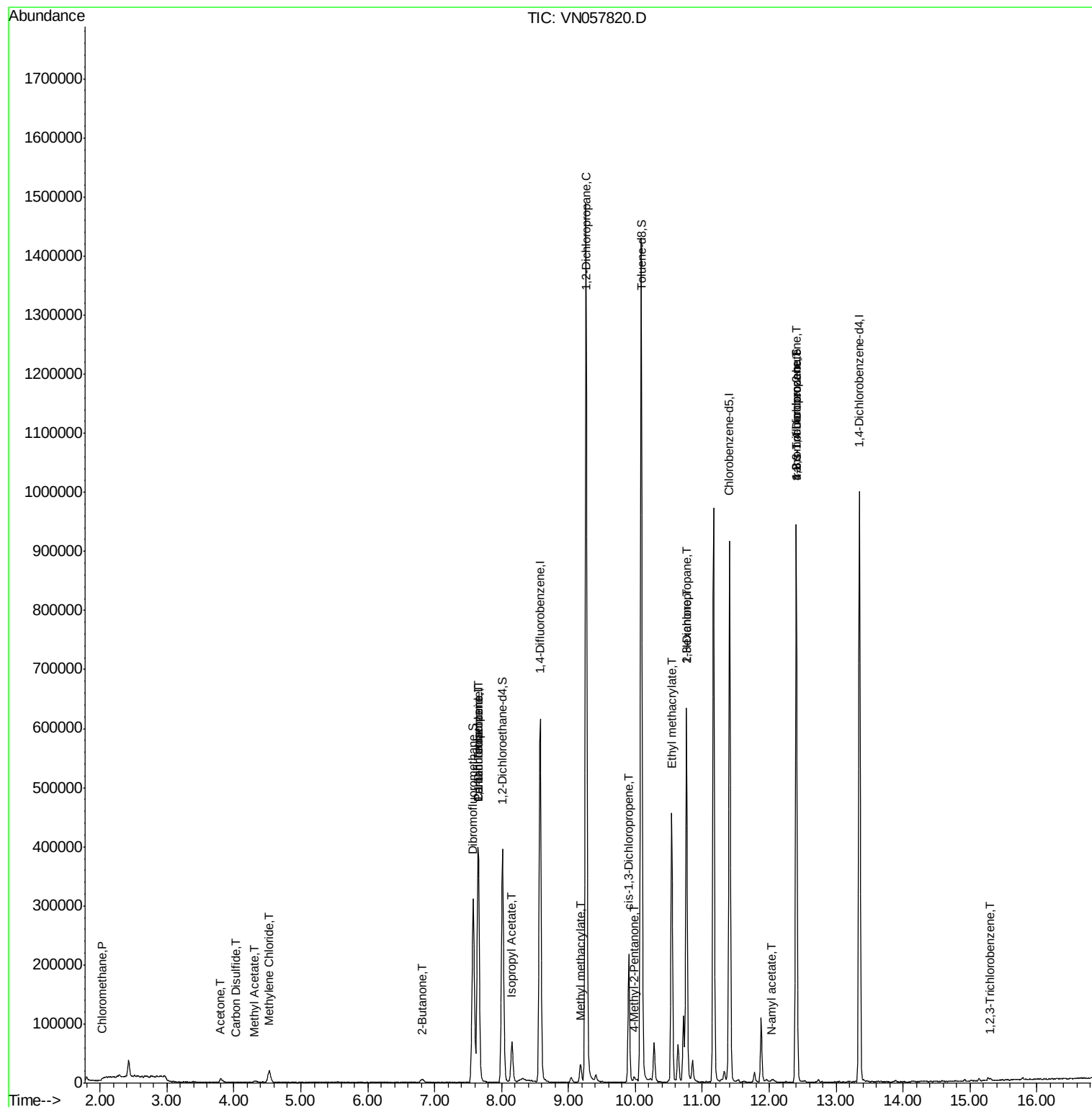
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	310384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	528849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	487783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	252476	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	342605	54.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.00%	
35) Dibromofluoromethane	7.58	113	234238	47.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.98%	
50) Toluene-d8	10.08	98	969464	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
62) 4-Bromofluorobenzene	12.40	95	317042	43.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.80%	
Target Compounds				Qvalue		
3) Chloromethane	2.03	50	941	0.215	ug/l #	83
5) Bromomethane	2.53	94	365	Below Cal		92
16) Acetone	3.80	43	10686	5.185	ug/l	98
17) Carbon Disulfide	4.03	76	644	0.283	ug/l #	75
18) Methyl Acetate	4.31	43	2857	0.520	ug/l	95
20) Methylene Chloride	4.52	84	13769	2.336	ug/l	92
25) 2-Butanone	6.82	43	863	0.289	ug/l #	49
31) Cyclohexane	7.65	56	8337	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	27974	4.561	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32028	5.720	ug/l #	16
43) Isopropyl Acetate	8.16	43	82988	7.788	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1761	0.328	ug/l #	44
48) Methyl methacrylate	9.18	41	4873	0.901	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	5837	0.926	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	36313	4.817	ug/l #	64
56) Ethyl methacrylate	10.54	69	1571	0.212	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5940	0.700	ug/l #	43
59) 2-Hexanone	10.76	43	99693	21.091	ug/l #	54
74) N-amyl acetate	12.03	43	1791	0.210	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	171904	30.098	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171904	105.916	ug/l #	6
95) Naphthalene	15.13	128	3735	Below Cal	#	93
96) 1,2,3-Trichlorobenzene	15.30	180	874	1.166	ug/l #	68

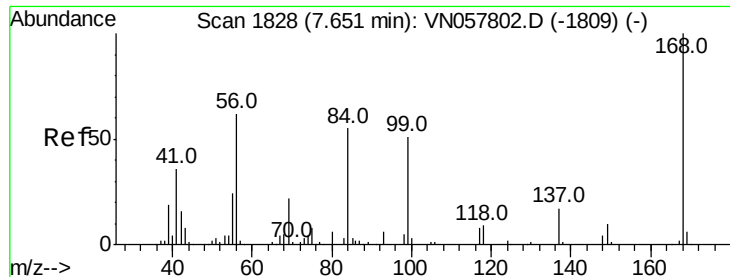
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057820.D

Acq: 9 Sep 2019 22:47

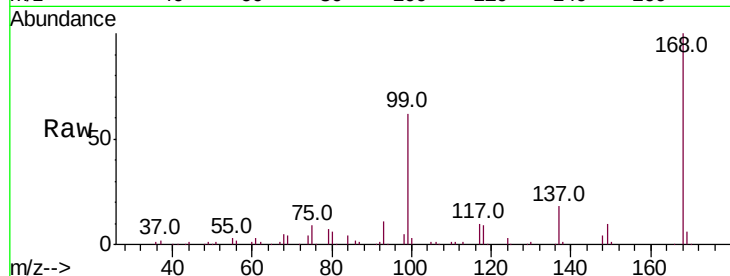
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 310384

Ion Ratio Lower Upper

168 100

99 61.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

150000

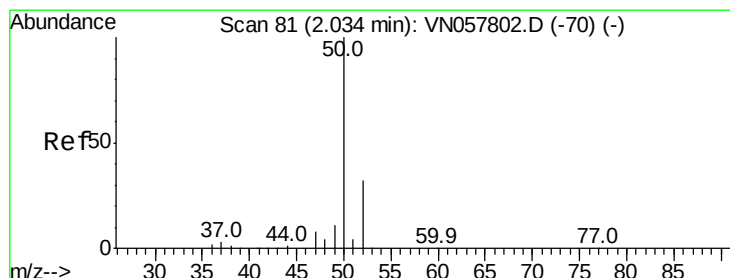
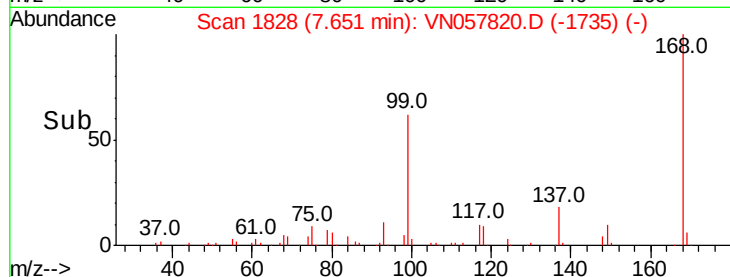
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.215 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN057820.D

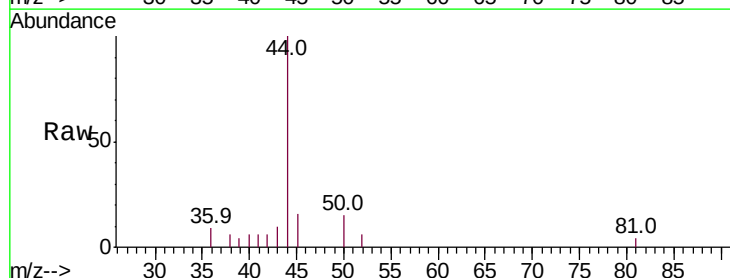
Acq: 9 Sep 2019 22:47

Tgt Ion: 50 Resp: 941

Ion Ratio Lower Upper

50 100

52 41.5 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)

2.03

600

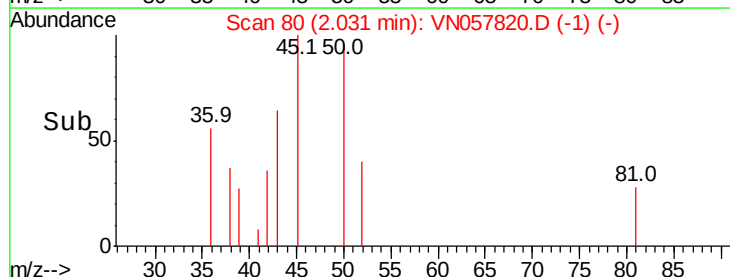
400

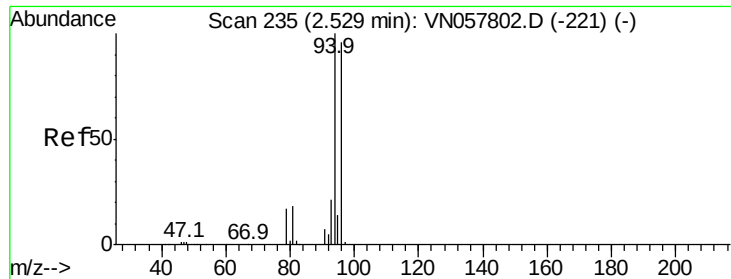
200

0

2.00 2.02 2.04 2.06

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. 0.00 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

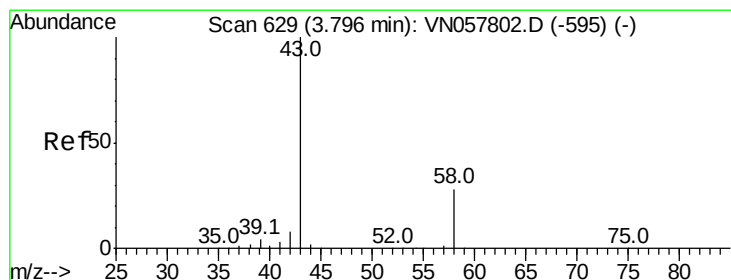
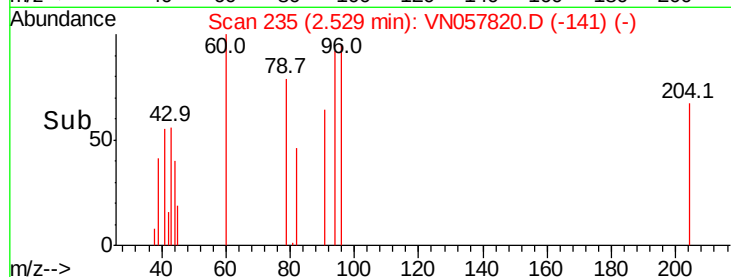
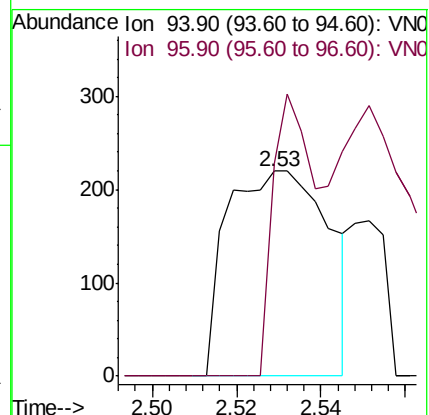
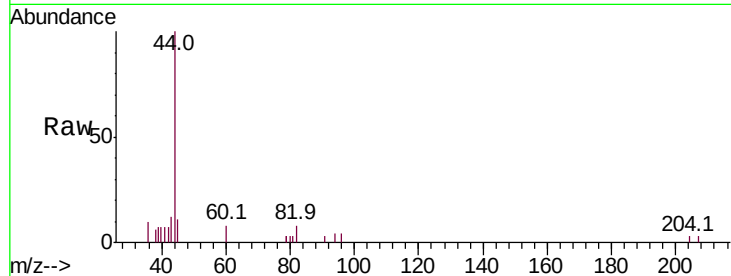
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 365

Ion Ratio Lower Upper

94 100

96 103.6 77.0 115.4



#16

Acetone

Concen: 5.185 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057820.D

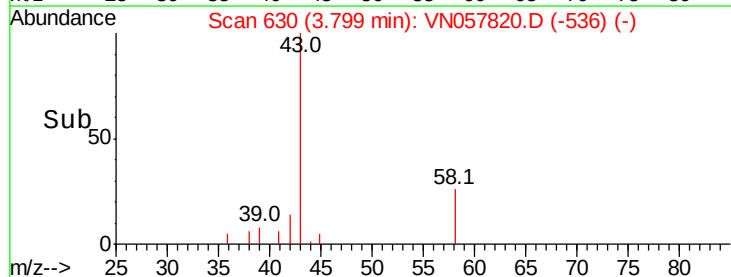
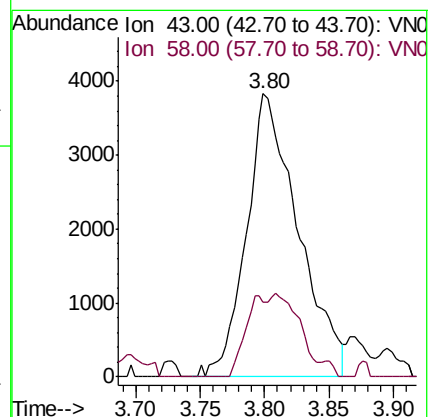
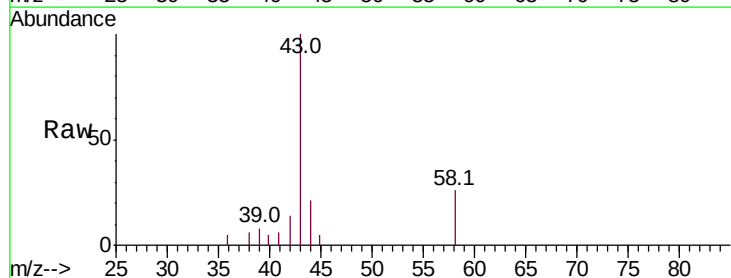
Acq: 9 Sep 2019 22:47

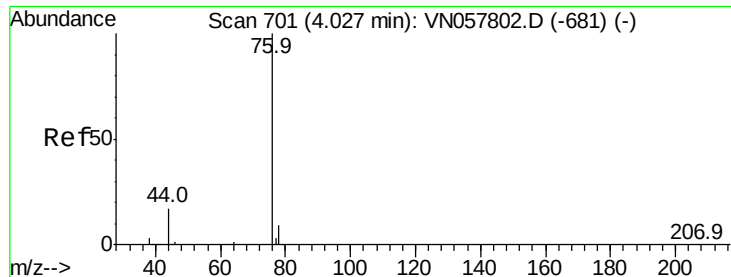
Tgt Ion: 43 Resp: 10686

Ion Ratio Lower Upper

43 100

58 26.4 22.2 33.2





#17

Carbon Disulfide

Concen: 0.283 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

Instrument :

MSVOA_N

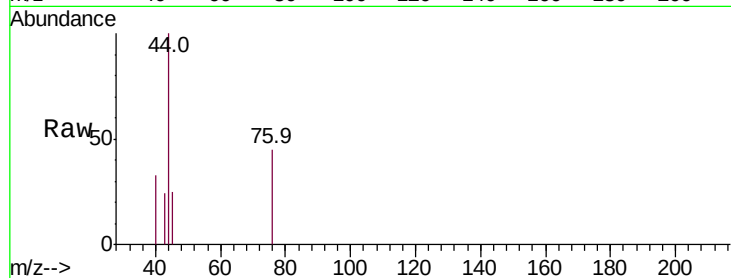
ClientSampled :

Tot Ion: 76 Resp: 644

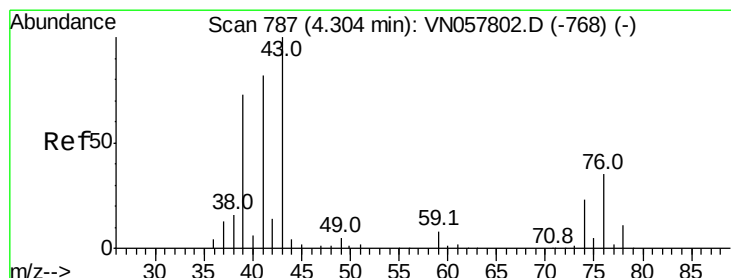
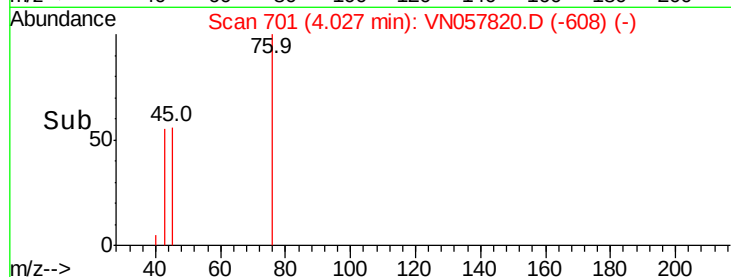
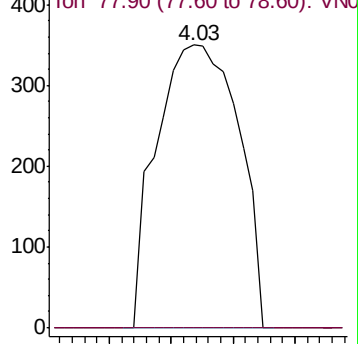
Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0



#18

Methyl Acetate

Concen: 0.520 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057820.D

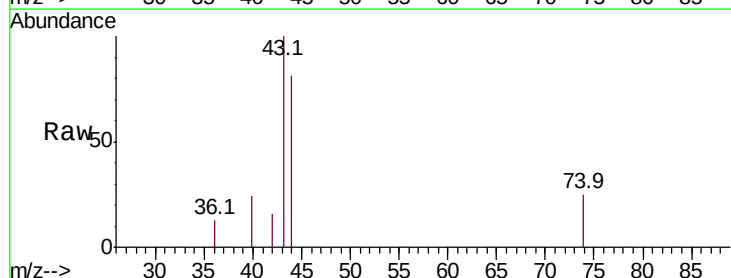
Acq: 9 Sep 2019 22:47

Tgt Ion: 43 Resp: 2857

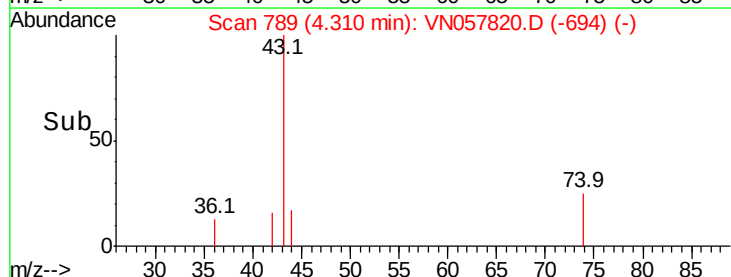
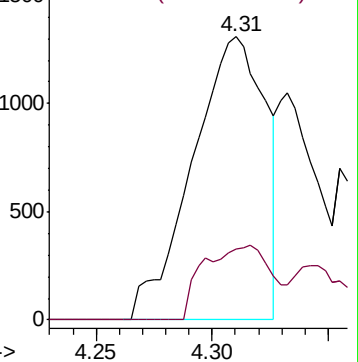
Ion Ratio Lower Upper

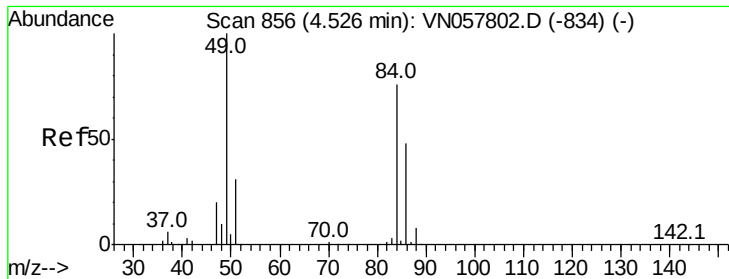
43 100

74 24.9 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

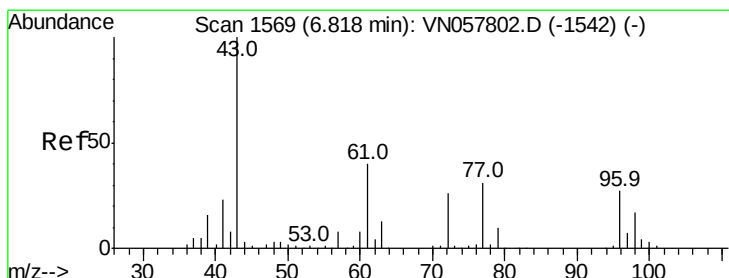
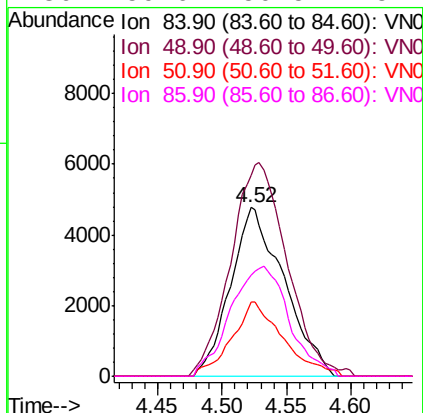
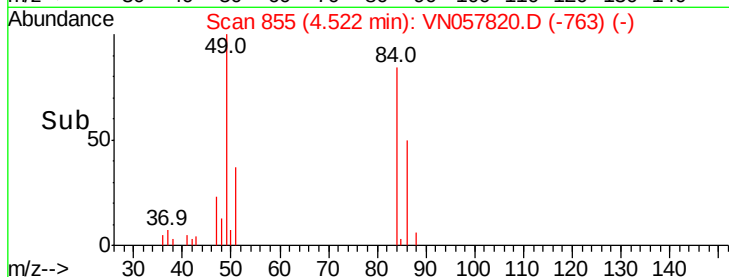
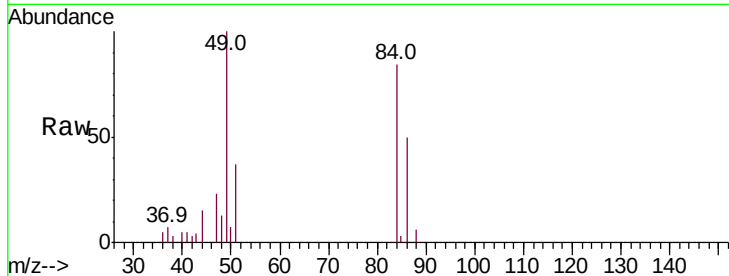




#20
Methvlene Chloride
Concen: 2.336 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

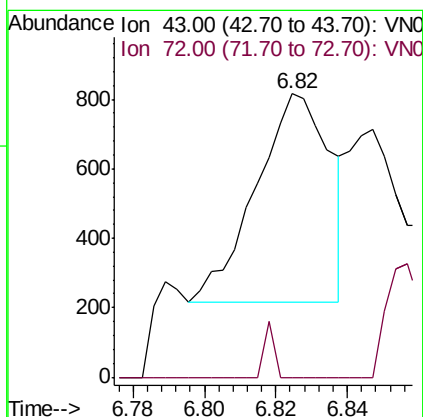
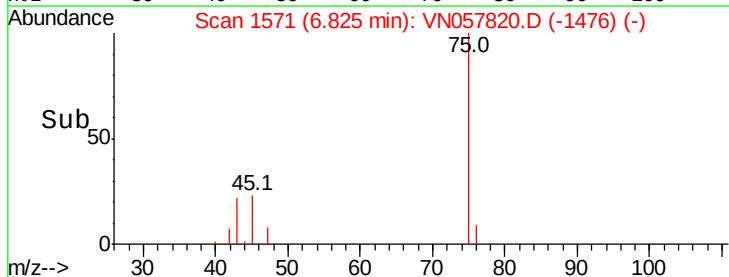
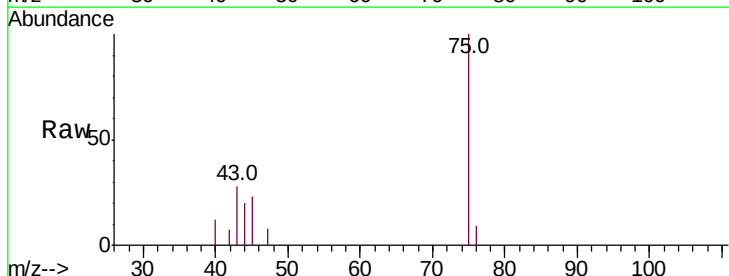
Instrument :
MSVOA_N
ClientSampleId :

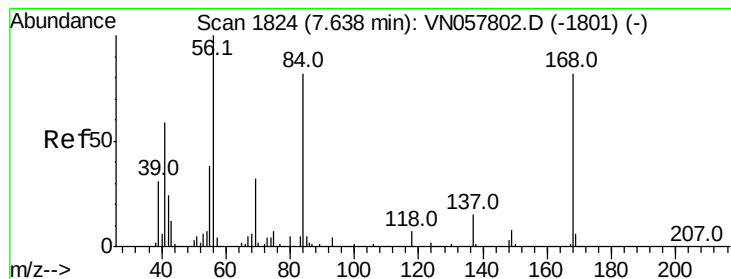
Tot Ion:	84	Resp:	13769
Ion	Ratio	Lower	Upper
84	100		
49	119.3	104.8	157.2
51	44.3	33.0	49.4
86	59.6	50.5	75.7



#25
2-Butanone
Concen: 0.289 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

Tgt Ion:	43	Resp:	863
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

Instrument :
MSVOA_N
ClientSampleId :

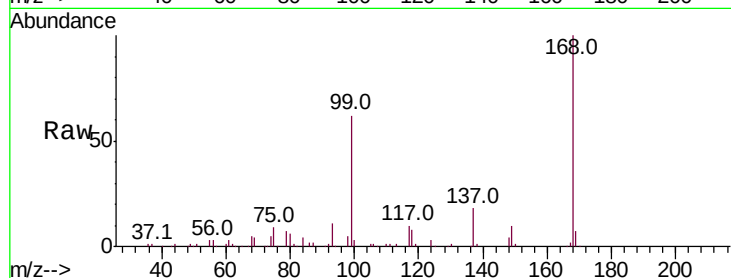
Tot Ion: 56 Resp: 8337

Ion Ratio Lower Upper

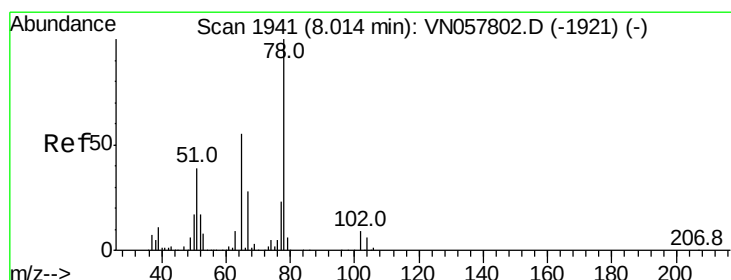
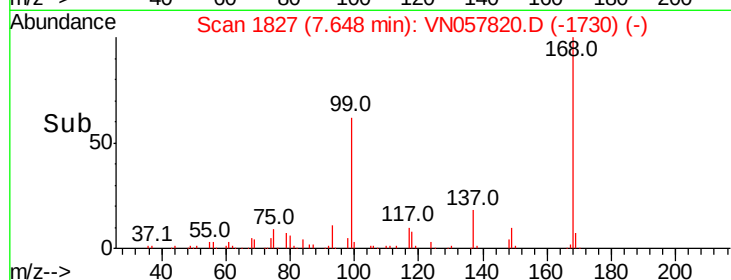
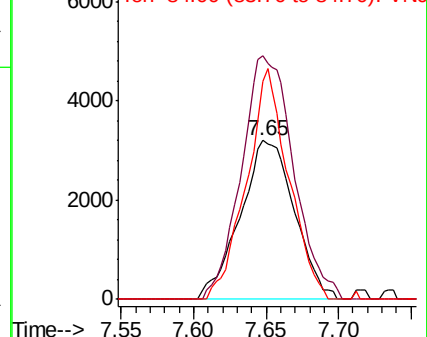
56 100

69 153.5 25.9 38.9#

84 137.5 65.6 98.4#



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: 54.498 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057820.D

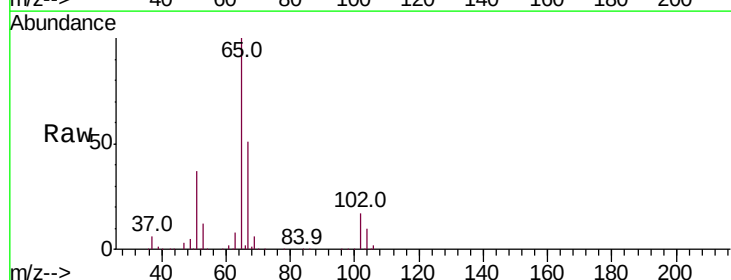
Acq: 9 Sep 2019 22:47

Tgt Ion: 65 Resp: 342605

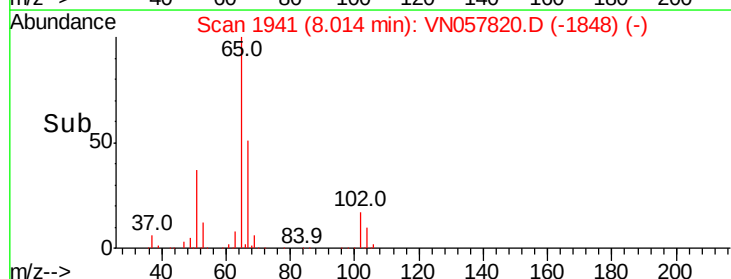
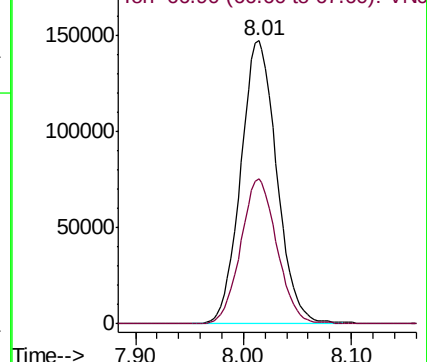
Ion Ratio Lower Upper

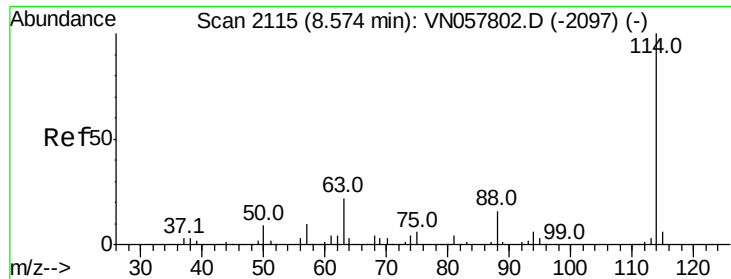
65 100

67 51.6 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

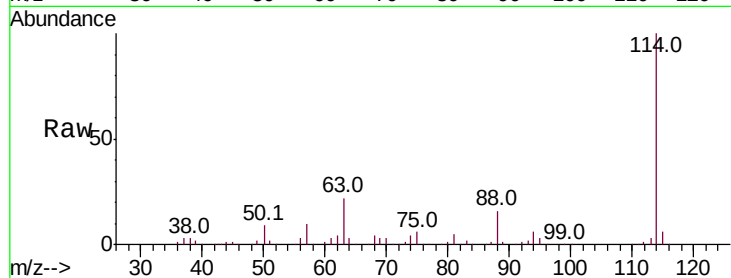




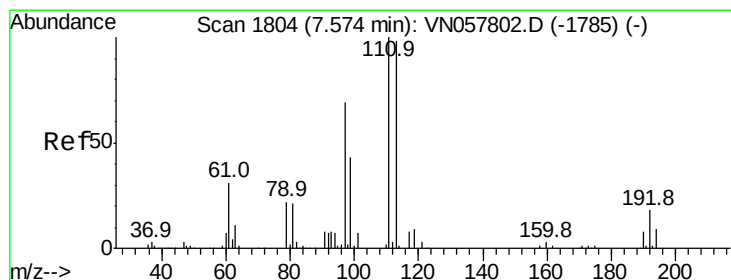
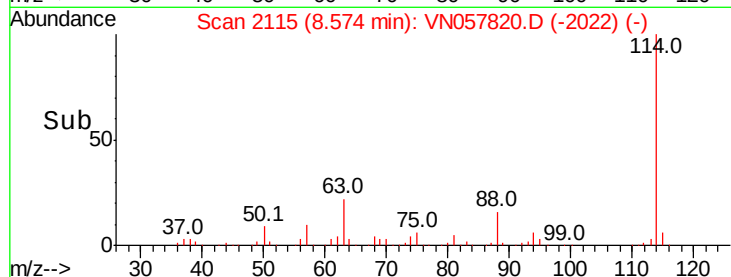
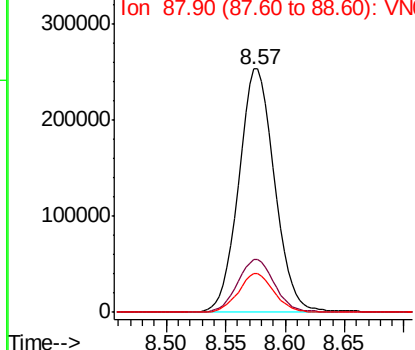
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057820.D
 Acq: 9 Sep 2019 22:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 528849
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 44.0
 88 15.7 0.0 31.4

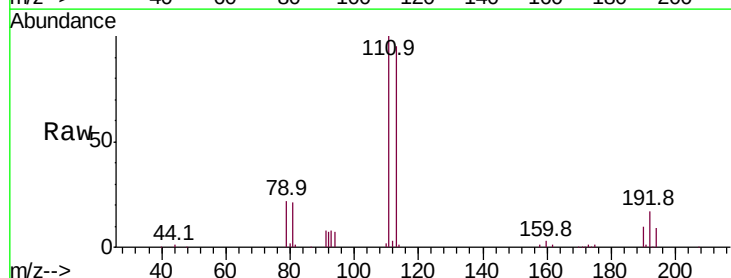


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

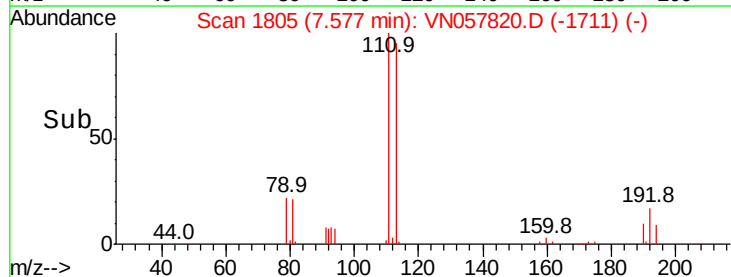
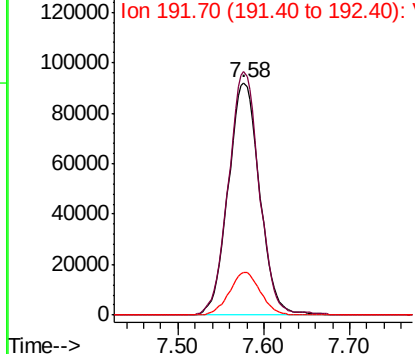


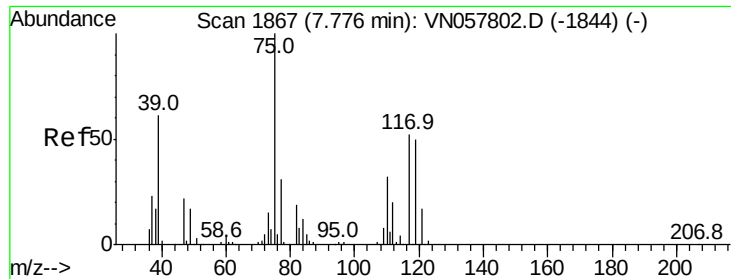
#35
 Dibromofluoromethane
 Concen: 47.989 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057820.D
 Acq: 9 Sep 2019 22:47

Tgt Ion:113 Resp: 234238
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.3 121.9
 192 18.0 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

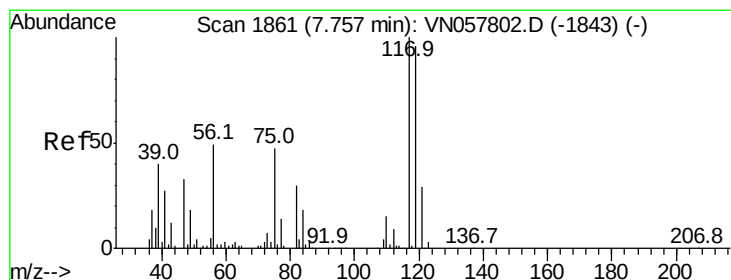
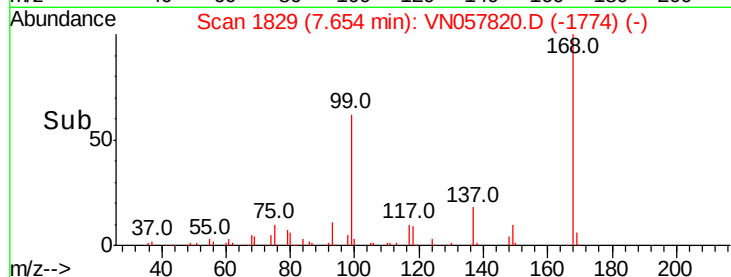
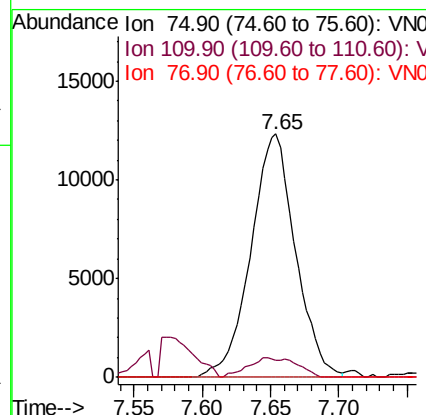
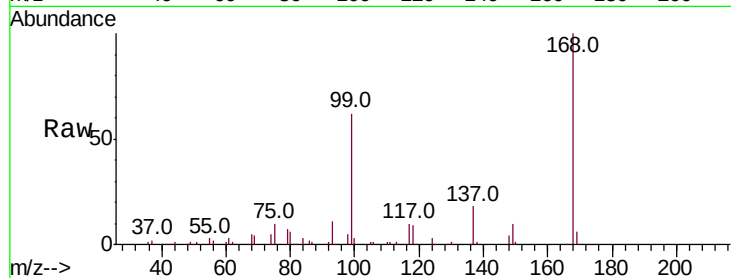




#36
 1,1-Dichloropropene
 Concen: 4.561 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057820.D
 Acq: 9 Sep 2019 22:47

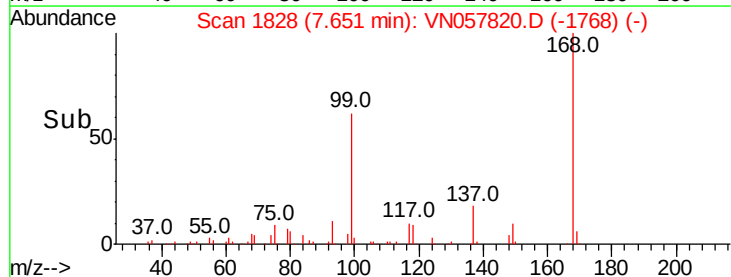
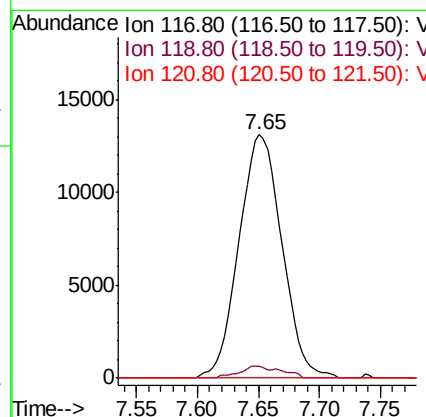
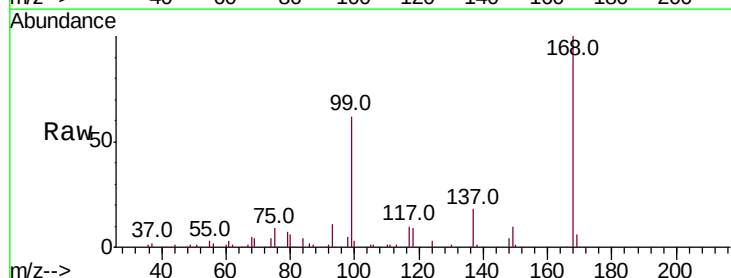
Instrument :
 MSVOA_N
 ClientSampleId :

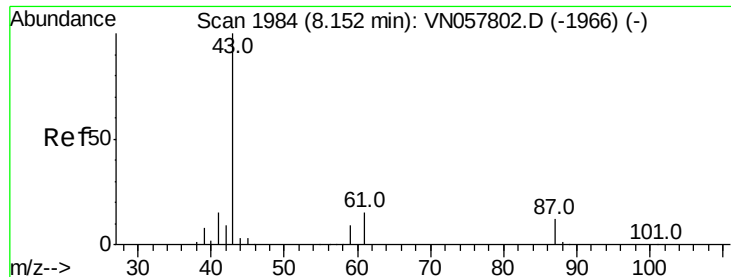
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.720 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057820.D
 Acq: 9 Sep 2019 22:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 7.788 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

Instrument :

MSVOA_N

ClientSampleId :

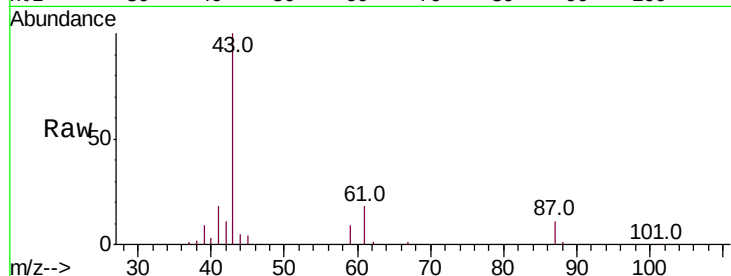
Tot Ion: 43 Resp: 82988

Ion Ratio Lower Upper

43 100

61 17.8 20.1 30.1#

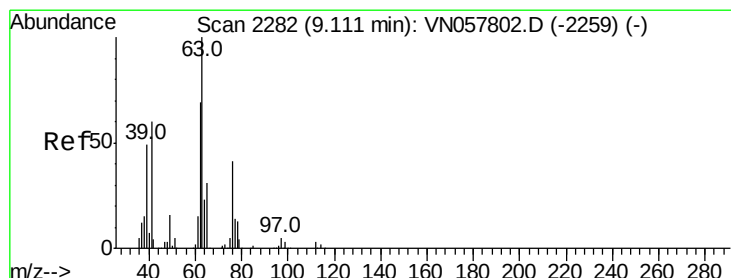
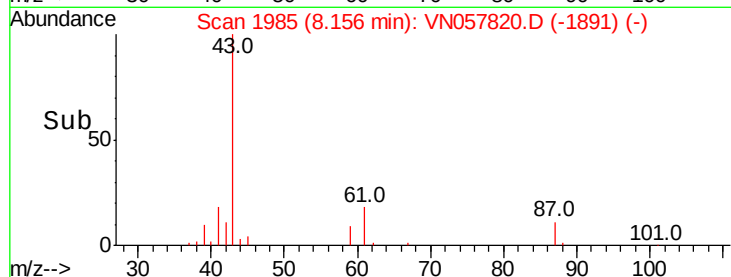
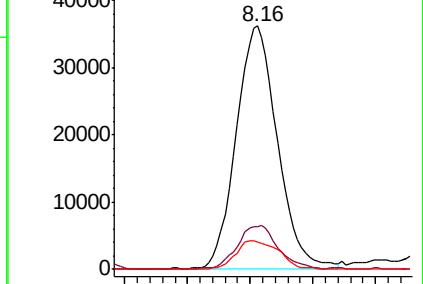
87 12.3 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.328 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057820.D

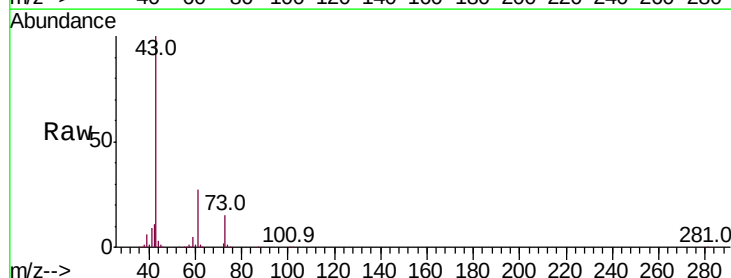
Acq: 9 Sep 2019 22:47

Tgt Ion: 63 Resp: 1761

Ion Ratio Lower Upper

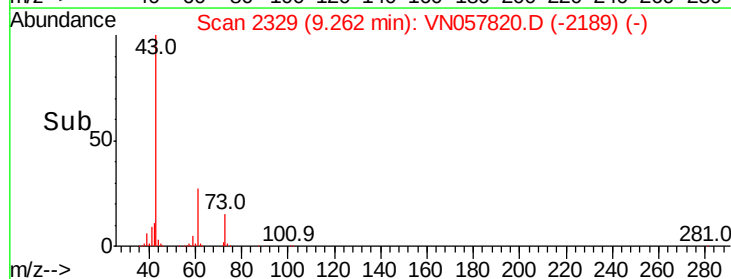
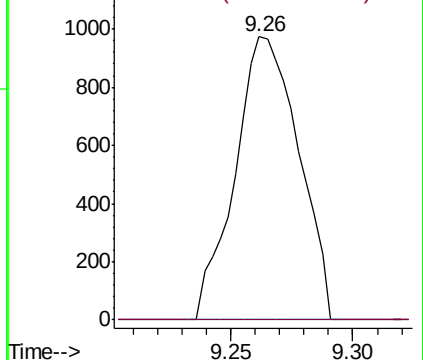
63 100

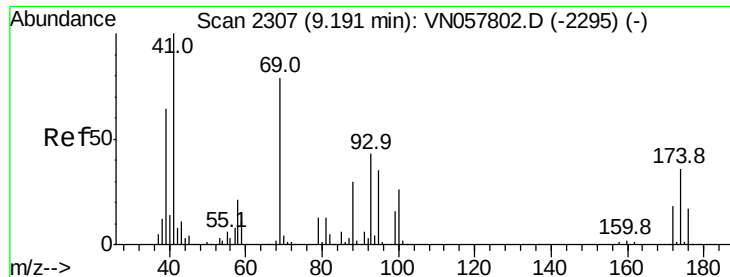
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

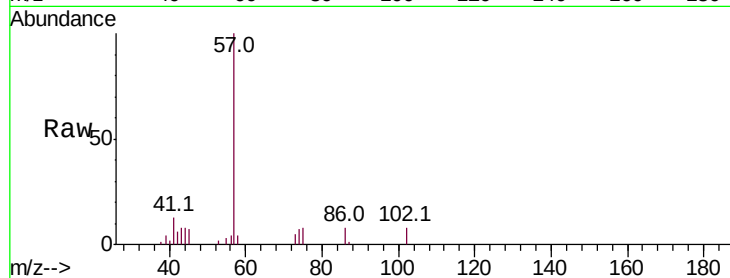




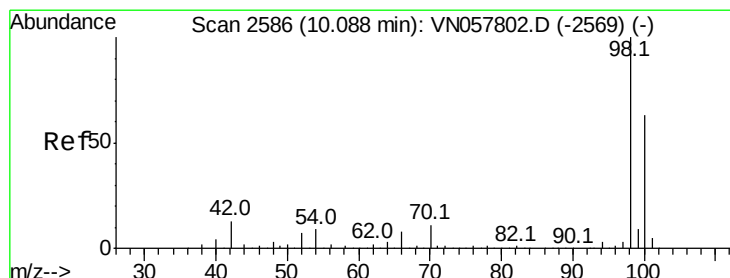
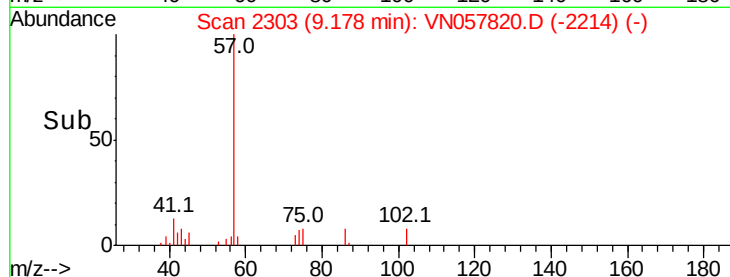
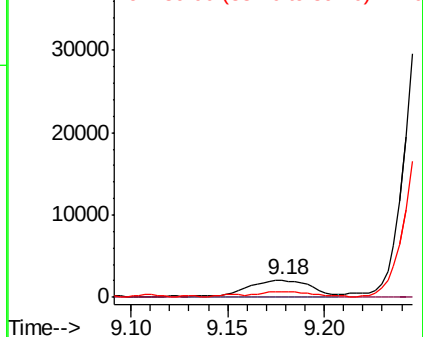
#48
Methvl methacrylate
Concen: 0.901 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 4873
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

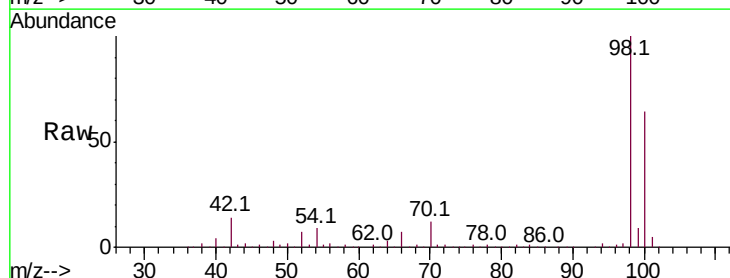


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

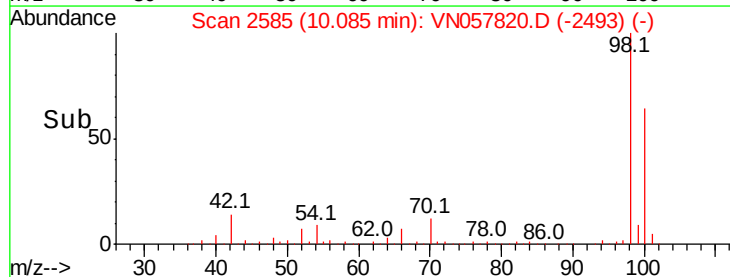
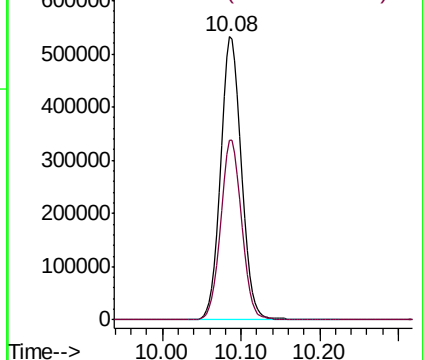


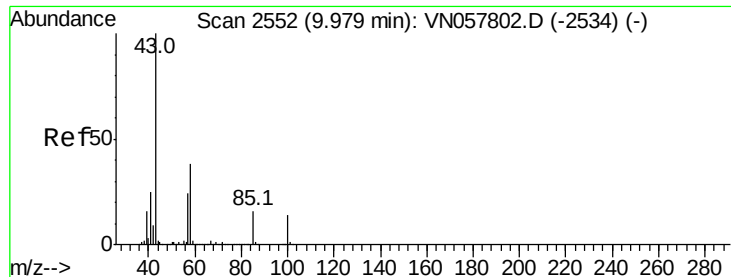
#50
Toluene-d8
Concen: 51.157 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

Tgt Ion: 98 Resp: 969464
Ion Ratio Lower Upper
98 100
100 63.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.926 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

Instrument :

MSVOA_N

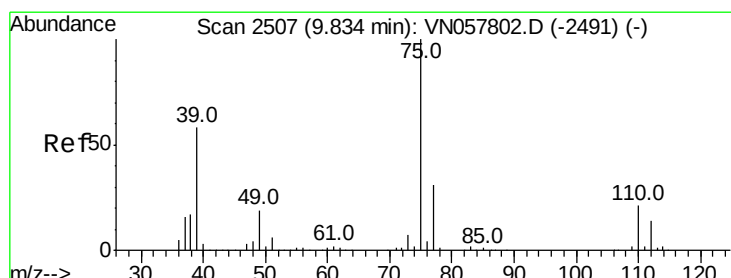
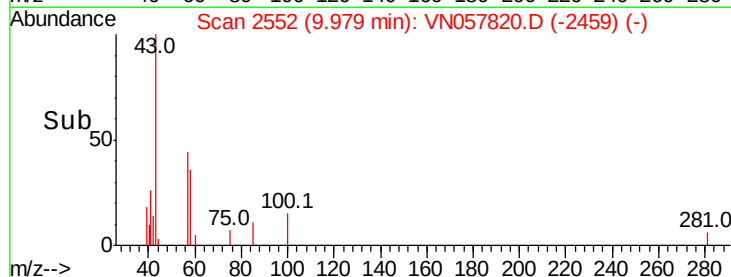
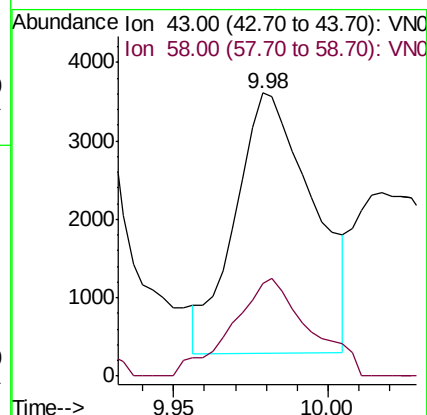
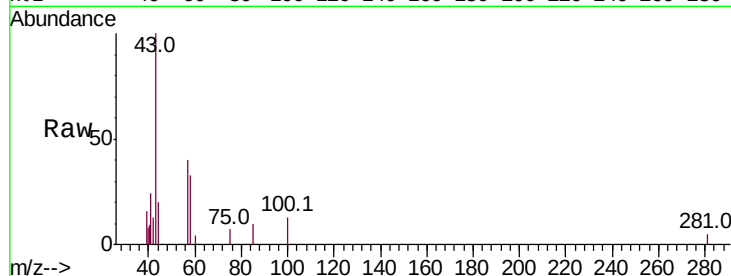
ClientSampleId :

Tot Ion: 43 Resp: 5837

Ion Ratio Lower Upper

43 100

58 37.0 29.8 44.6



#54

cis-1,3-Dichloropropene

Concen: 4.817 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

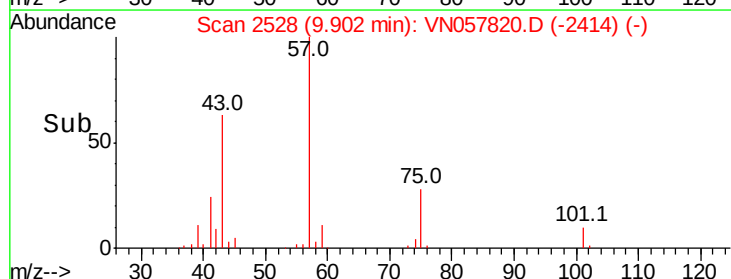
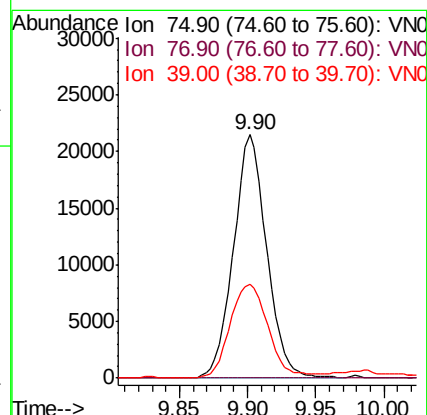
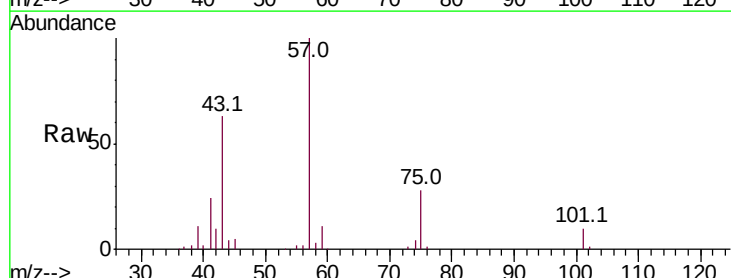
Tgt Ion: 75 Resp: 36313

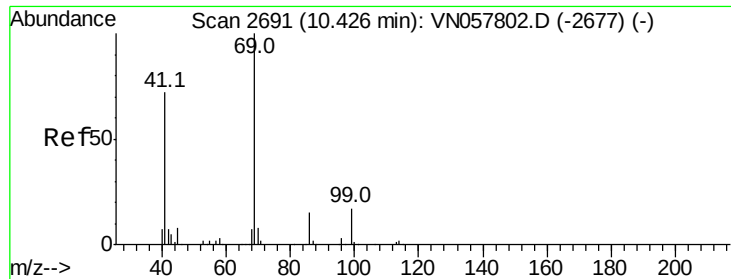
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 38.7 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.212 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

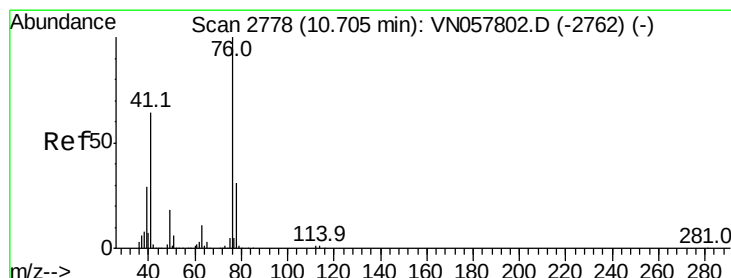
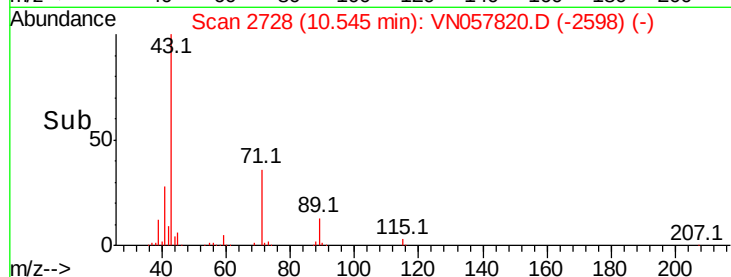
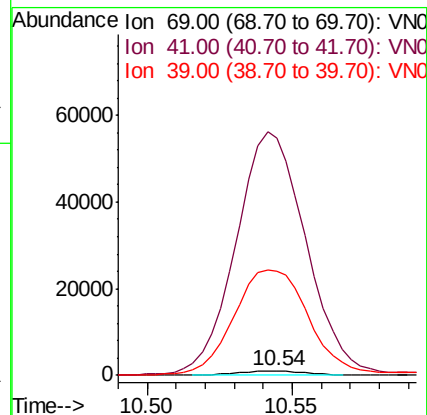
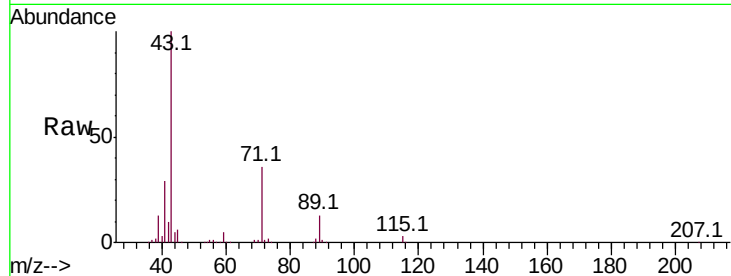
Tot Ion: 69 Resp: 1571

Ion Ratio Lower Upper

69 100

41 6080.9 56.7 85.1#

39 2746.3 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.700 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057820.D

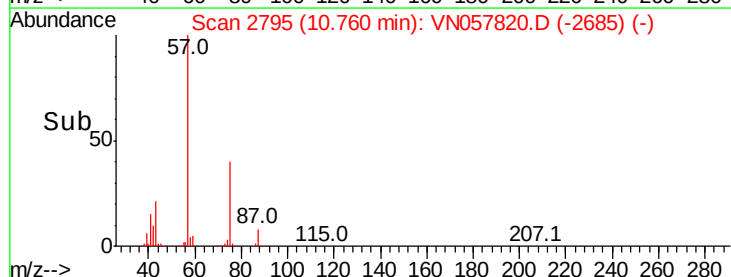
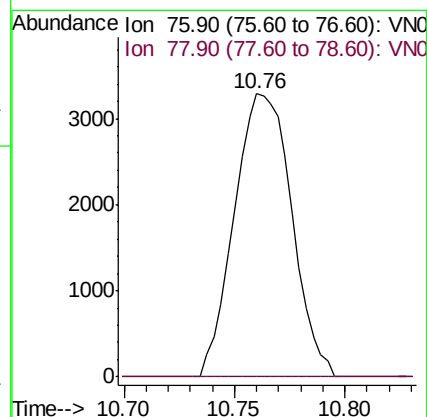
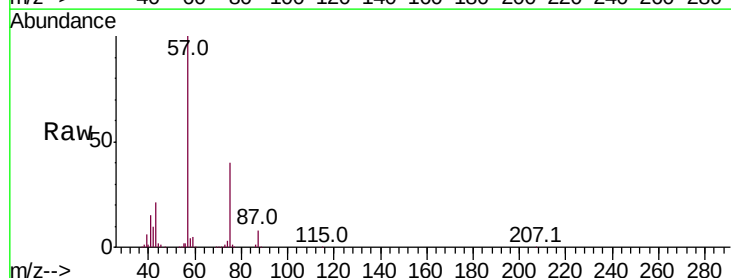
Acq: 9 Sep 2019 22:47

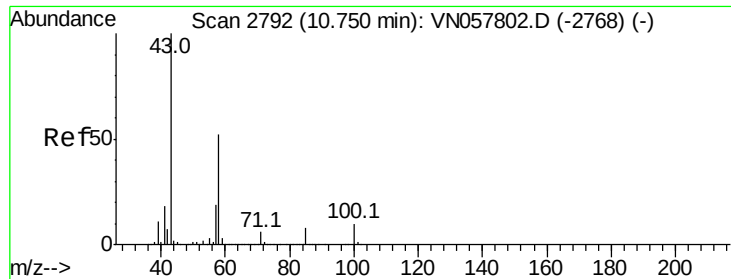
Tgt Ion: 76 Resp: 5940

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

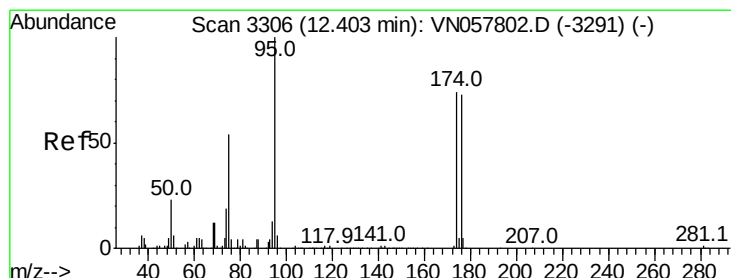
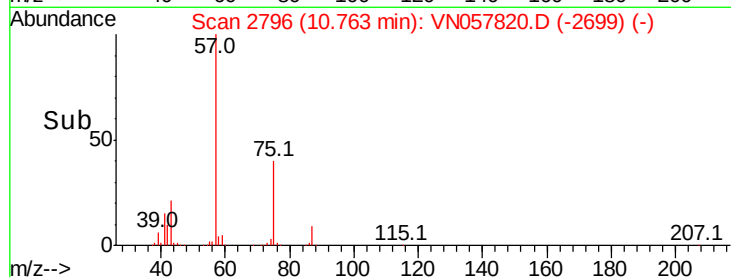
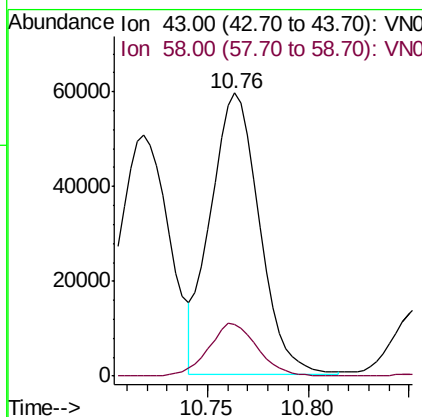
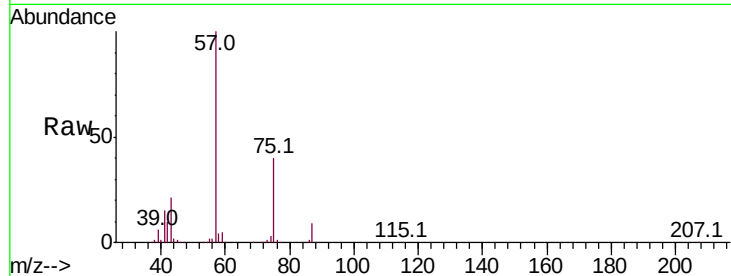




#59
2-Hexanone
Concen: 21.091 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

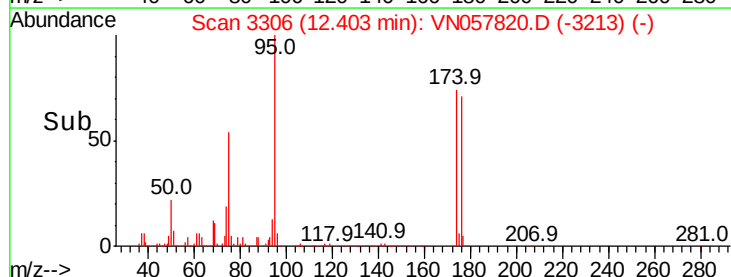
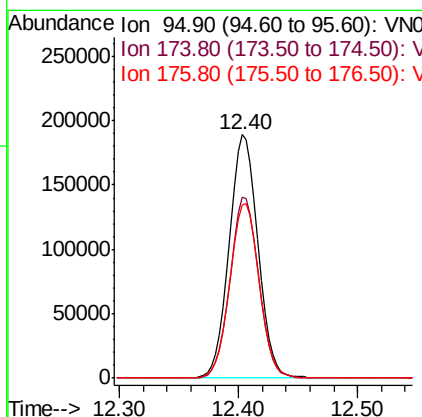
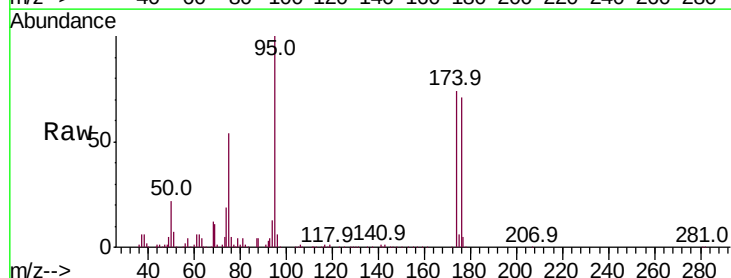
Instrument :
MSVOA_N
ClientSampleId :

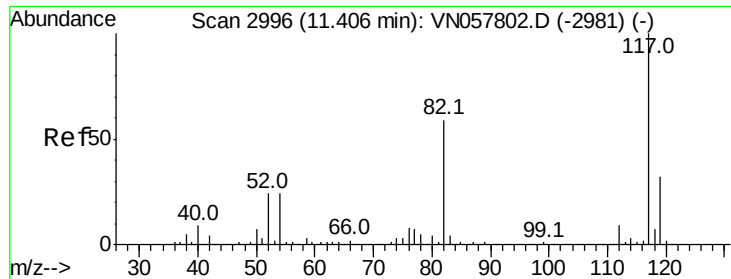
Tot Ion: 43 Resp: 99693
Ion Ratio Lower Upper
43 100
58 19.2 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 43.900 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

Tgt Ion: 95 Resp: 317042
Ion Ratio Lower Upper
95 100
174 74.2 0.0 150.2
176 73.0 0.0 146.0

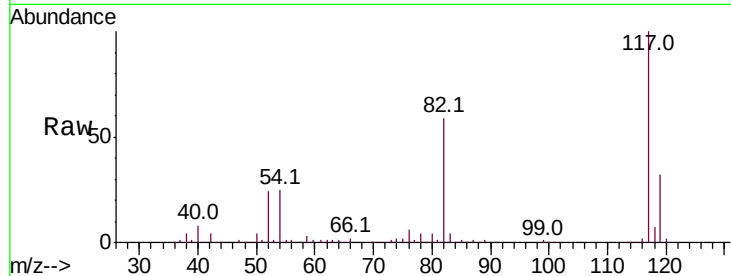




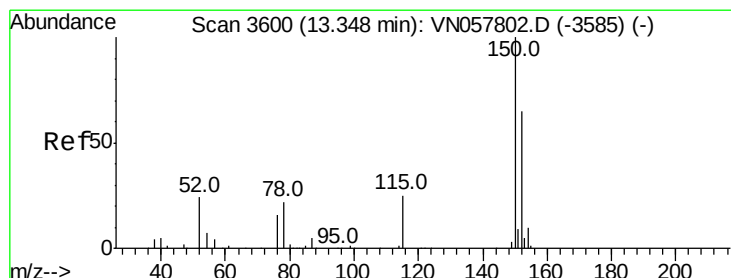
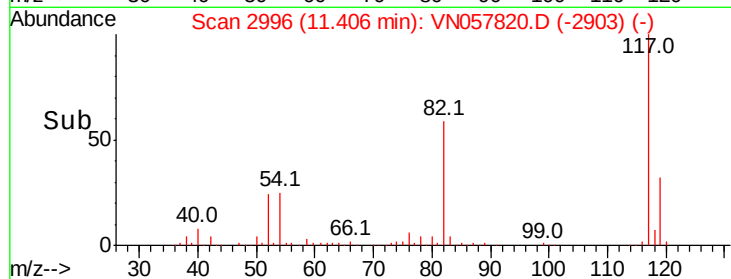
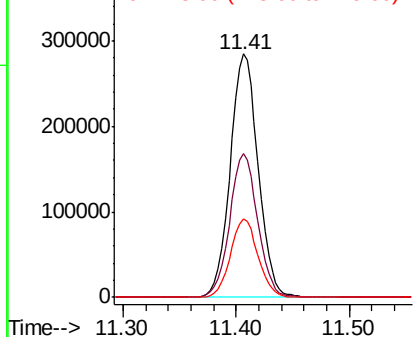
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 487783
Ion Ratio Lower Upper
117 100
82 58.8 47.2 70.8
119 32.2 25.3 37.9

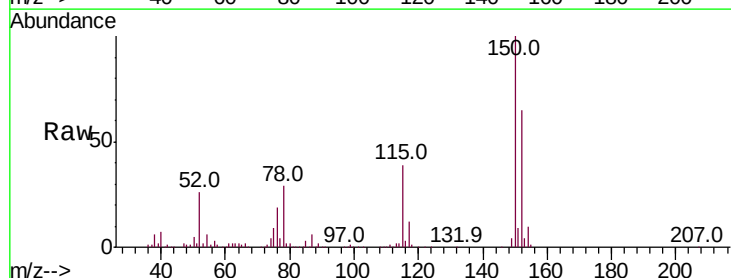


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

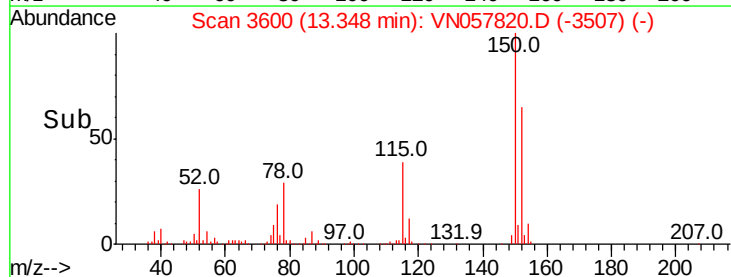
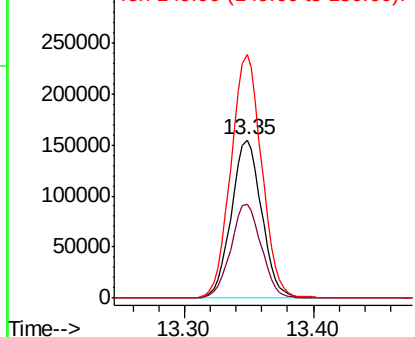


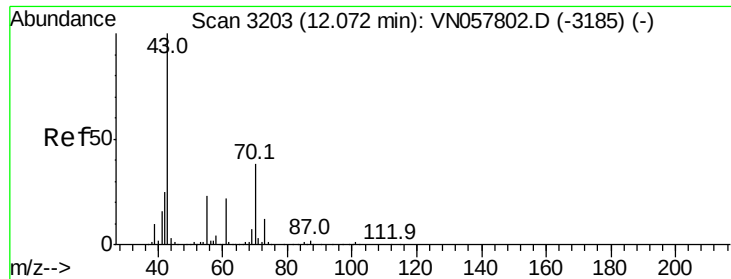
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

Tgt Ion:152 Resp: 252476
Ion Ratio Lower Upper
152 100
115 59.7 30.3 91.0
150 156.5 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

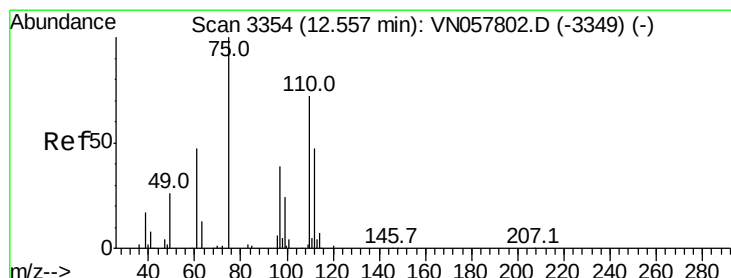
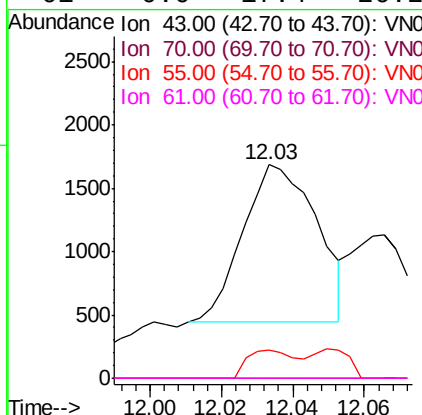
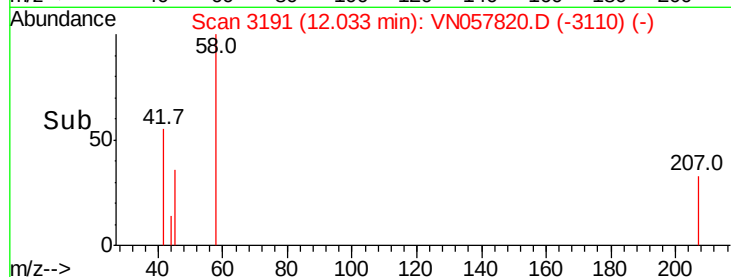
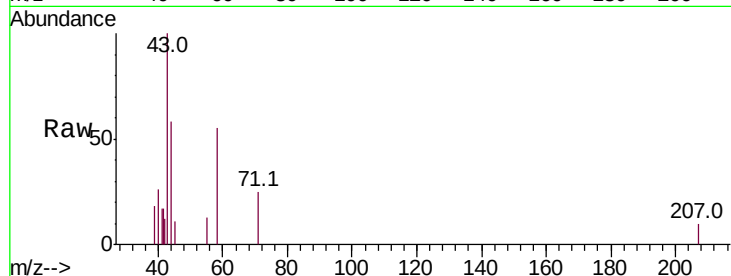




#74
N-amvl acetate
Concen: 0.210 ug/l
RT: 12.03 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

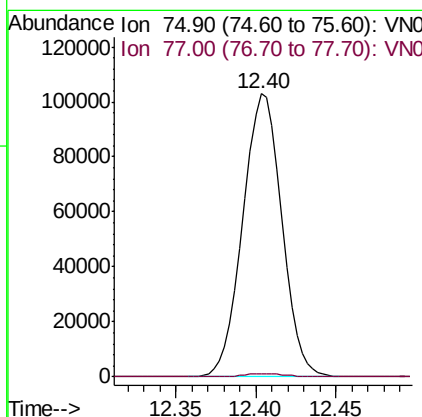
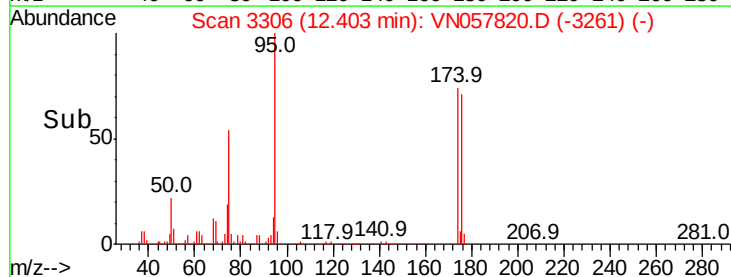
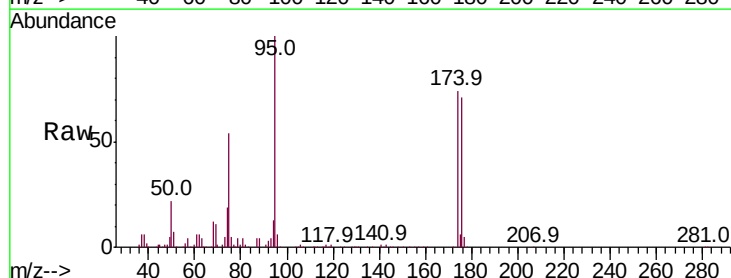
Instrument :
MSVOA_N
ClientSampled :

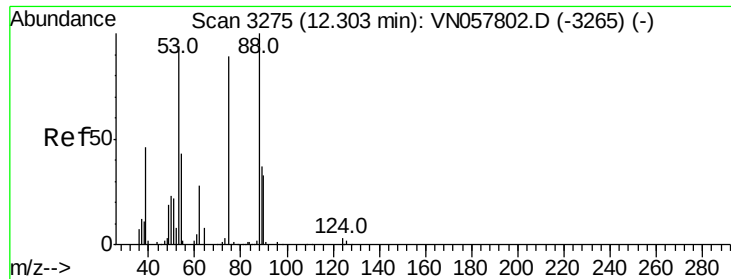
Tot Ion: 43 Resp: 1791
Ion Ratio Lower Upper
43 100
70 0.0 30.6 45.8#
55 12.1 18.6 27.8#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 30.098 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN057820.D
Acq: 9 Sep 2019 22:47

Tgt Ion: 75 Resp: 171904
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 105.916 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

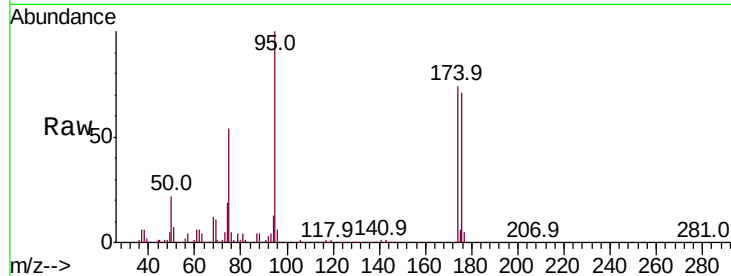
Tot Ion: 75 Resp: 171904

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

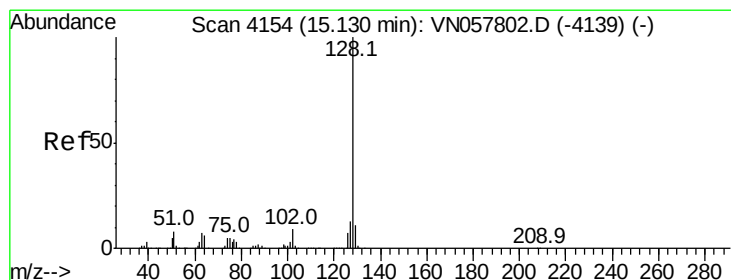
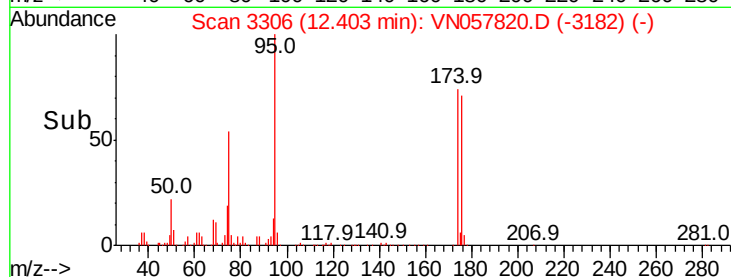
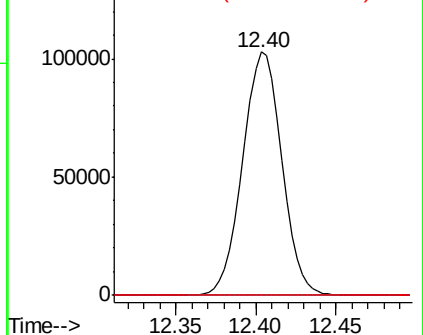
89 0.0 35.3 52.9#



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: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

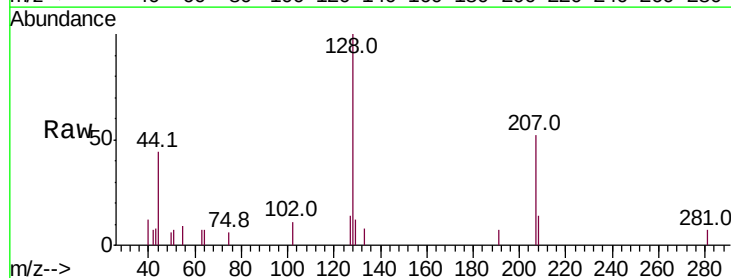
Tgt Ion: 128 Resp: 3735

Ion Ratio Lower Upper

128 100

127 15.2 10.3 15.5

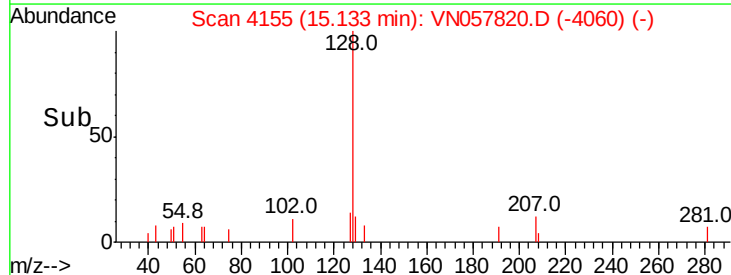
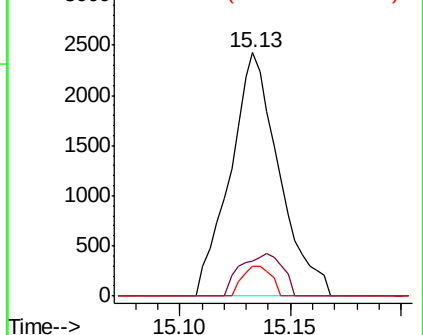
129 7.3 8.6 12.8#

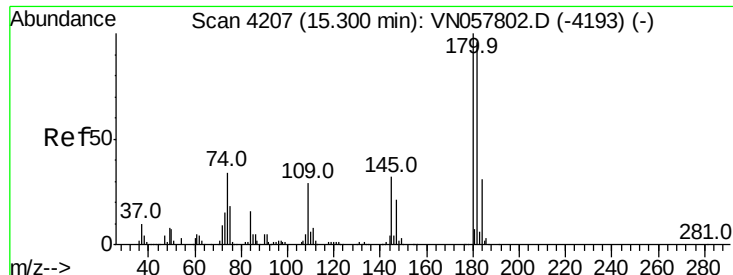


Abundance Ion 128.00 (127.70 to 128.70): VN057802.D (-4139) (-)

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: 1.166 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057820.D

Acq: 9 Sep 2019 22:47

Instrument :

MSVOA_N

ClientSampleId :

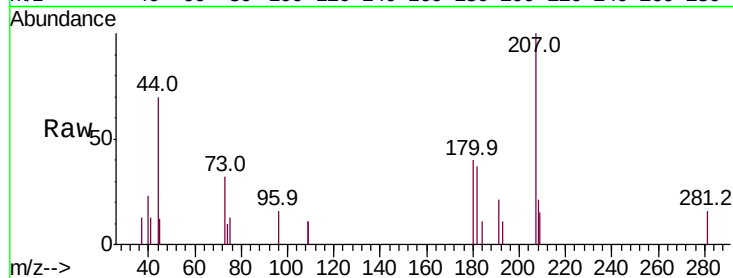
Tot Ion:180 Resp: 874

Ion Ratio Lower Upper

180 100

182 118.9 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

