

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058099.D
 Acq On : 15 Sep 2019 17:56
 Operator : JC/SP
 Sample : K4719-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:42:53 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	307558	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	527959	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	488932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	260433	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	368981	59.23	ug/l	0.00
Spiked Amount			Recovery	=	118.46%	
35) Dibromofluoromethane	7.58	113	251895	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
50) Toluene-d8	10.08	98	979006	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
62) 4-Bromofluorobenzene	12.41	95	331514	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	

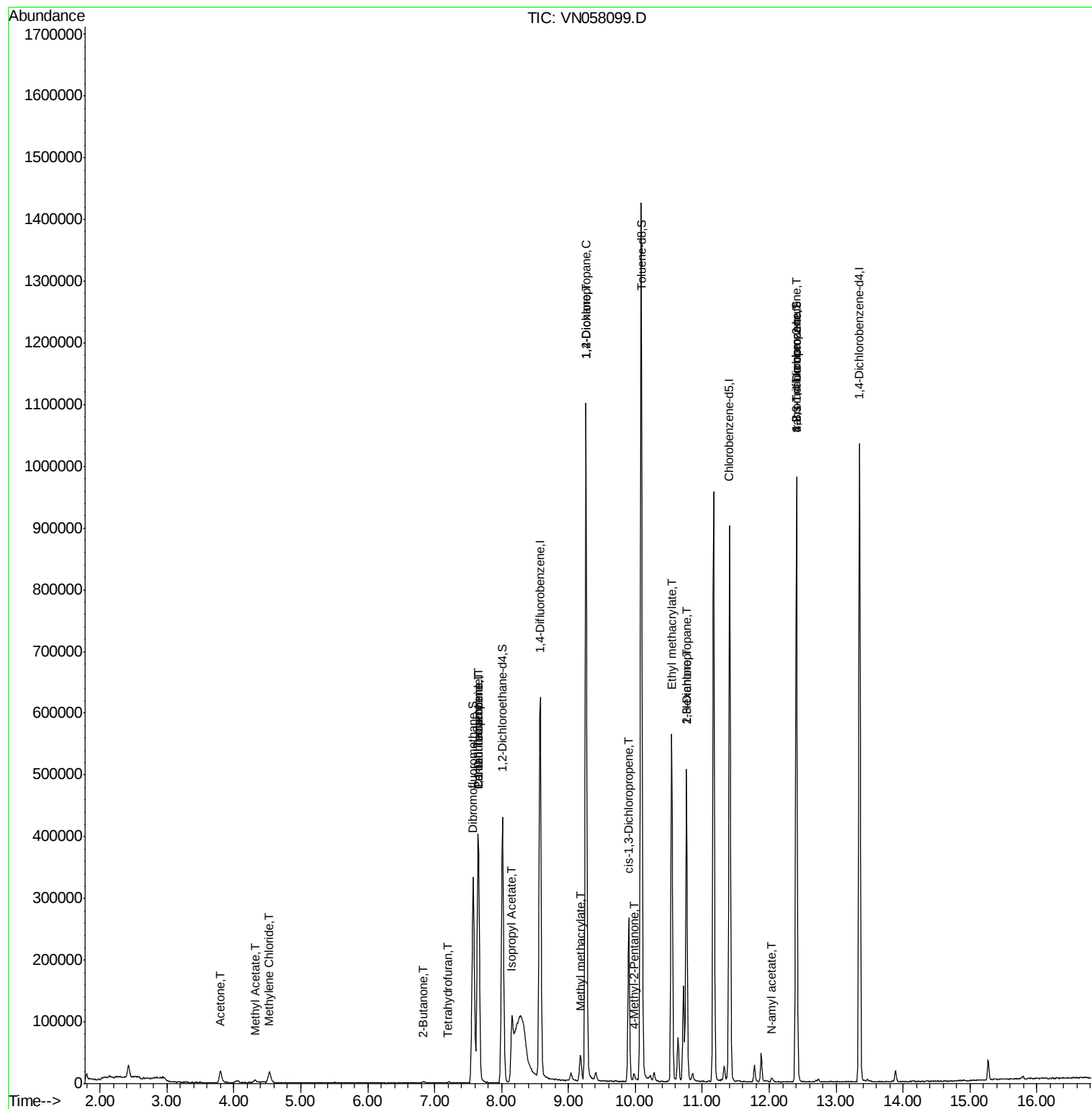
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	31	Below Cal	#	2
16) Acetone	3.80	43	33624	16.465	ug/l	92
18) Methyl Acetate	4.31	43	7340	1.348	ug/l #	78
20) Methylene Chloride	4.53	84	12877	2.134	ug/l	89
25) 2-Butanone	6.82	43	1600	0.541	ug/l #	89
29) Tetrahydrofuran	7.20	42	1472	0.808	ug/l #	42
31) Cyclohexane	7.65	56	8286	Below Cal	#	30
36) 1,1-Dichloropropene	7.65	75	27538	4.498	ug/l #	50
38) Carbon Tetrachloride	7.65	117	32247	5.768	ug/l #	16
43) Isopropyl Acetate	8.16	43	139321	13.096	ug/l #	80
45) 1,2-Dichloropropane	9.26	63	1381	0.257	ug/l #	44
48) Methyl methacrylate	9.17	41	5637	1.045	ug/l #	13
49) 1,4-Dioxane	9.26	88	31	0.340	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8497	1.350	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	43597	5.793	ug/l #	66
56) Ethyl methacrylate	10.54	69	2151	0.290	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4965	0.586	ug/l #	43
59) 2-Hexanone	10.76	43	72532	15.371	ug/l #	56
74) N-amyl acetate	12.04	43	5130	0.583	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	178356	30.274	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	178356	106.534	ug/l #	6
95) Naphthalene	15.13	128	837	Below Cal	#	69

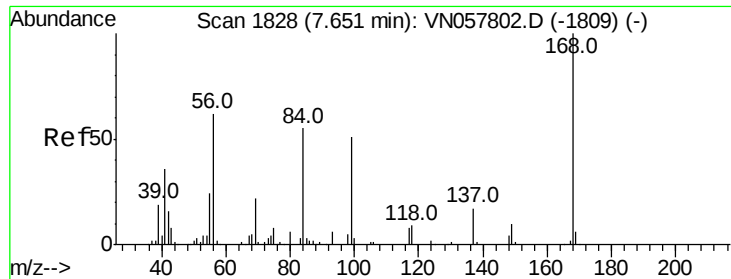
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

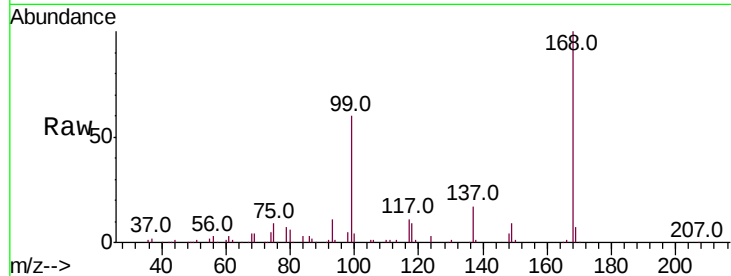
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 307558

Ion Ratio Lower Upper

168 100

99 60.3 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

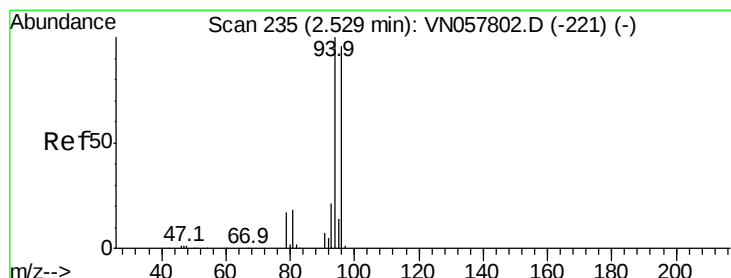
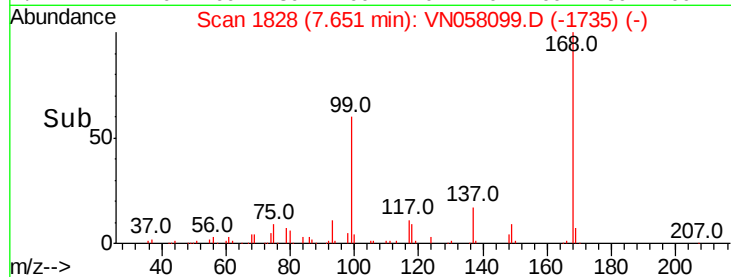
100000

50000

0

Time-->

7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. 0.00 min

Lab File: VN058099.D

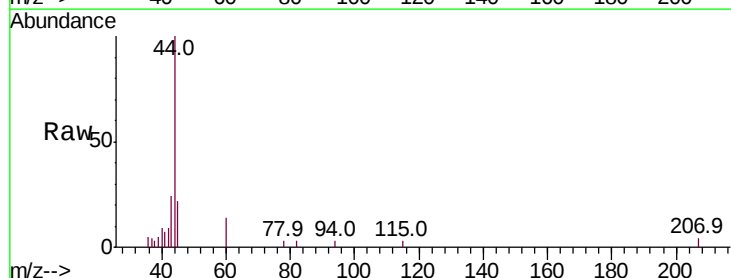
Acq: 15 Sep 2019 17:56

Tgt Ion: 94 Resp: 31

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.53

200

150

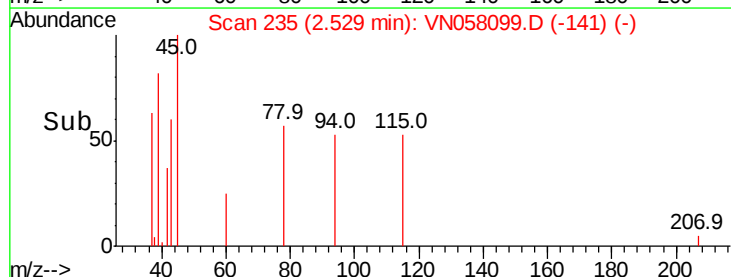
100

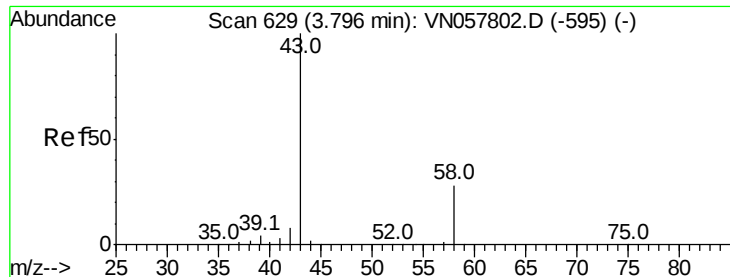
50

0

Time-->

2.52 2.53 2.54





#16

Acetone

Concen: 16.465 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

Instrument :

MSVOA_N

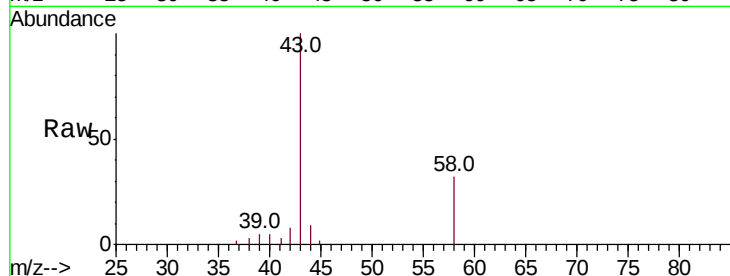
ClientSampleId :

Tot Ion: 43 Resp: 33624

Ion Ratio Lower Upper

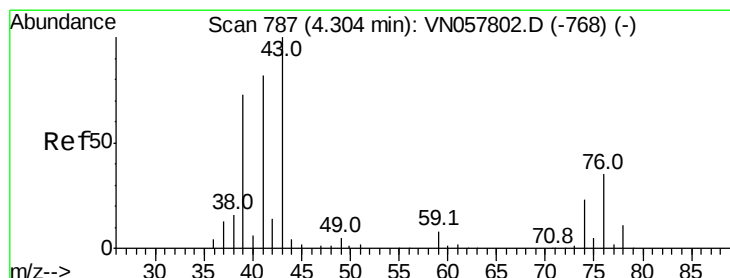
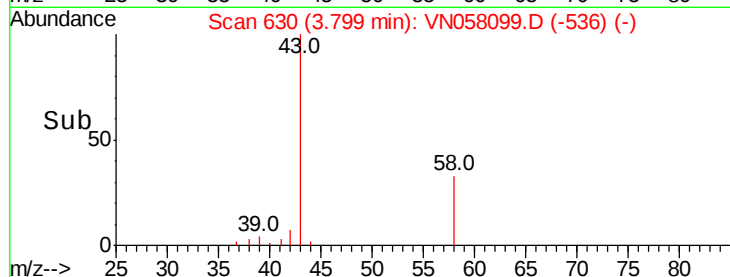
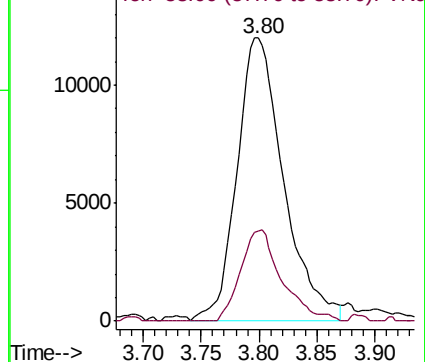
43 100

58 31.9 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.348 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058099.D

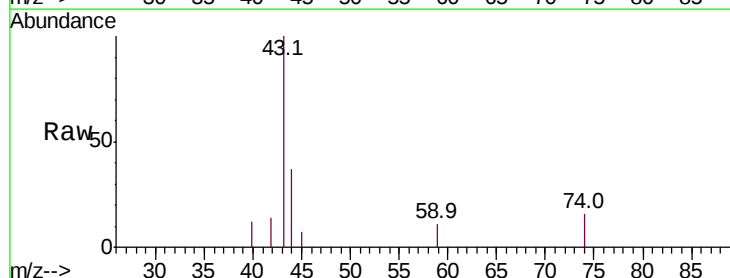
Acq: 15 Sep 2019 17:56

Tgt Ion: 43 Resp: 7340

Ion Ratio Lower Upper

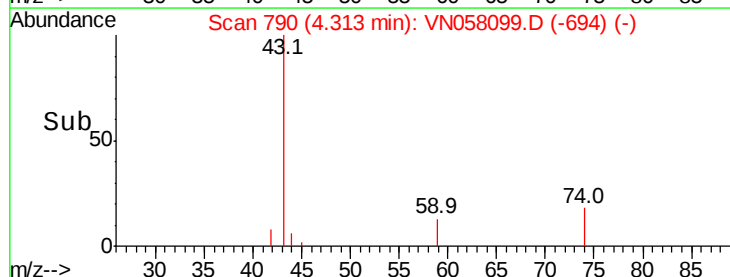
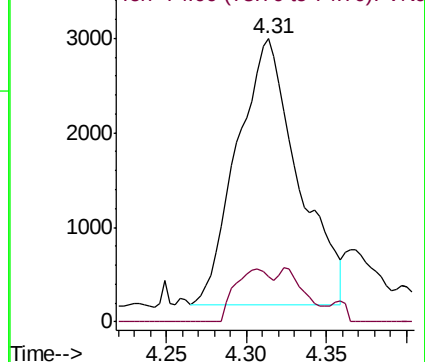
43 100

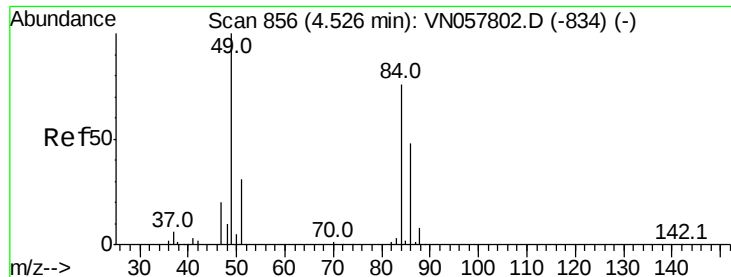
74 11.8 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

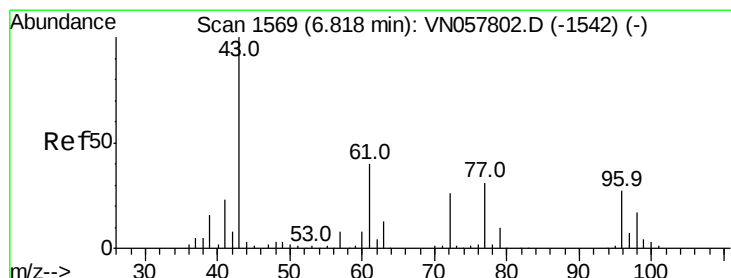
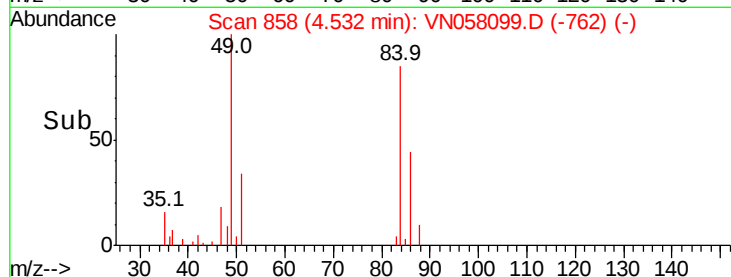
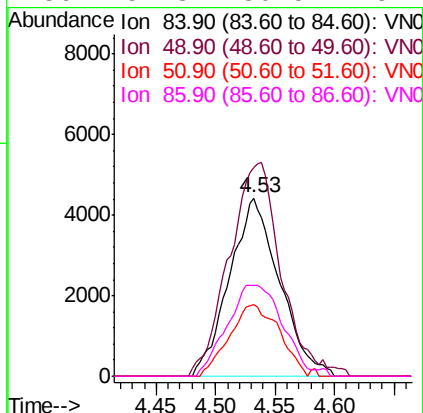
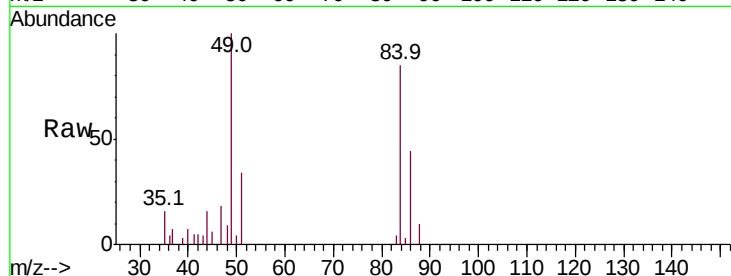




#20
Methvlene Chloride
Concen: 2.134 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

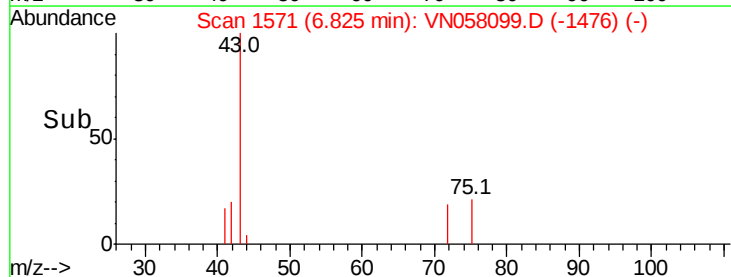
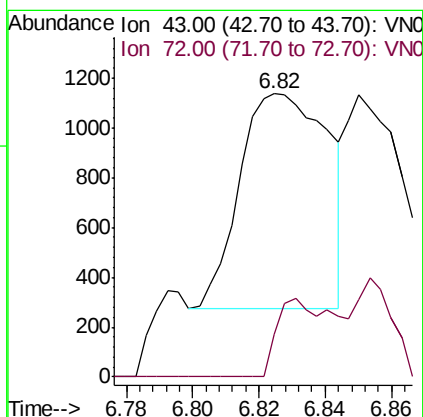
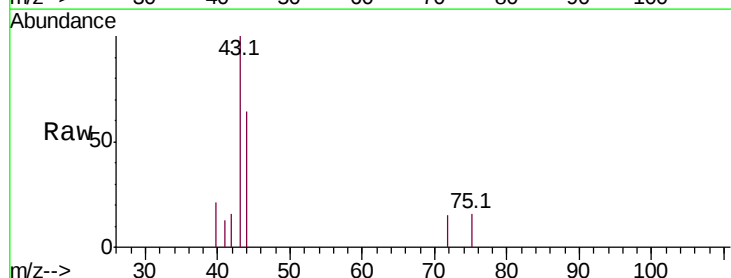
Instrument :
MSVOA_N
ClientSampled :

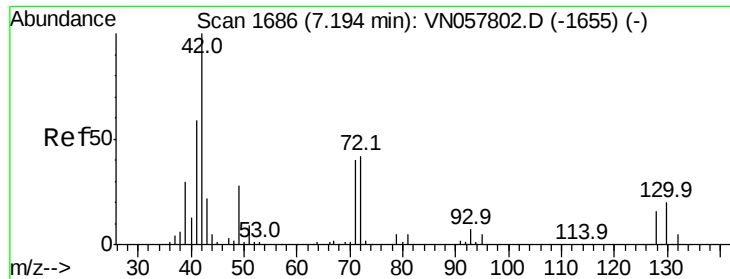
Tot Ion: 84 Resp: 12877
Ion Ratio Lower Upper
84 100
49 117.1 104.8 157.2
51 40.2 33.0 49.4
86 51.3 50.5 75.7



#25
2-Butanone
Concen: 0.541 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

Tgt Ion: 43 Resp: 1600
Ion Ratio Lower Upper
43 100
72 20.0 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.808 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :

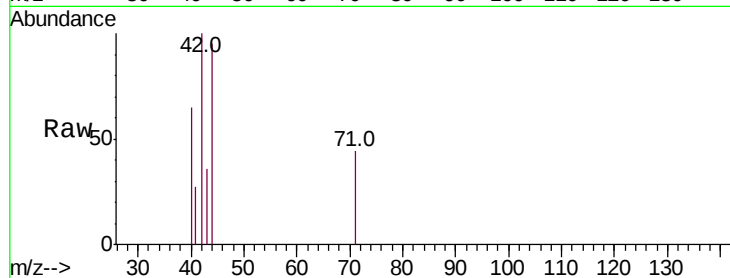
Tot Ion: 42 Resp: 1472

Ion Ratio Lower Upper

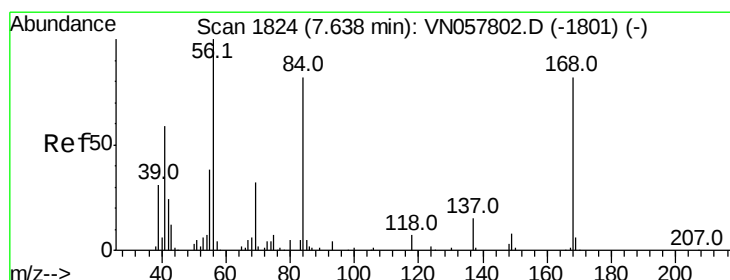
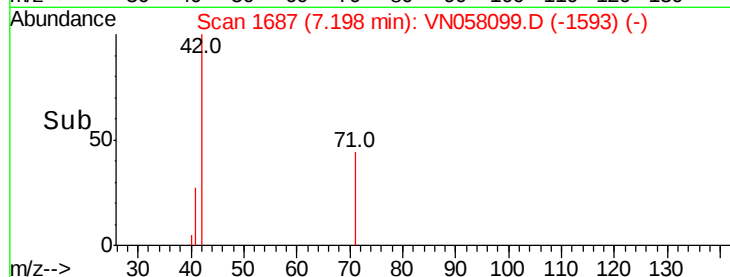
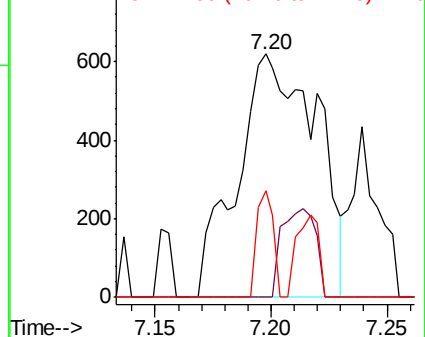
42 100

72 0.0 33.7 50.5#

71 9.3 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

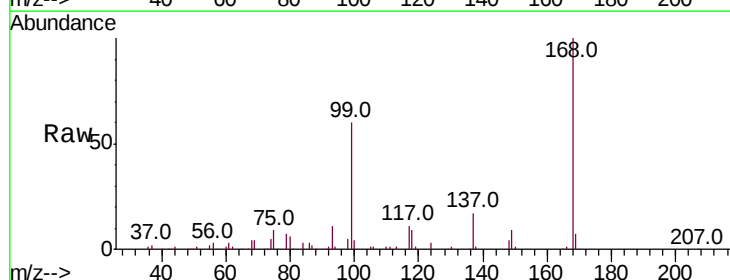
Tgt Ion: 56 Resp: 8286

Ion Ratio Lower Upper

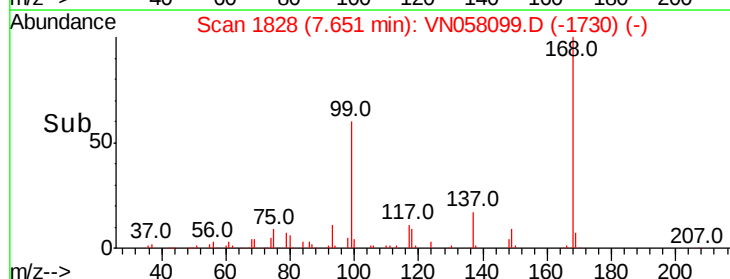
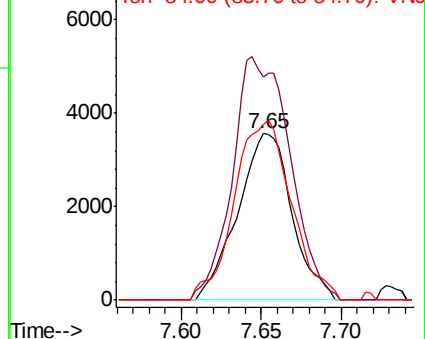
56 100

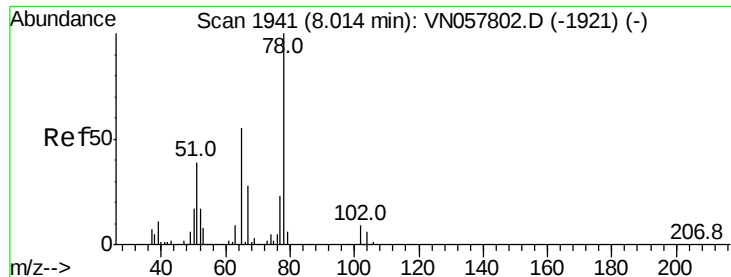
69 133.8 25.9 38.9#

84 106.0 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO





#33

1,2-Dichloroethane-d4

Concen: 59.233 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

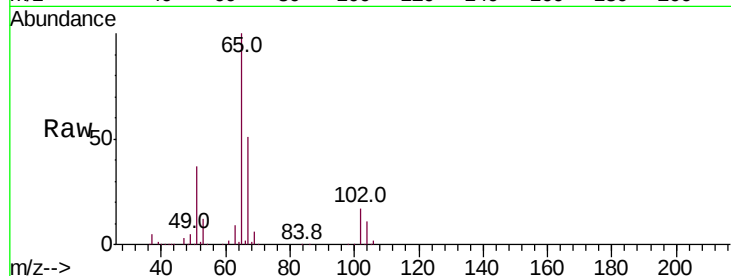
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 368981

Ion Ratio Lower Upper

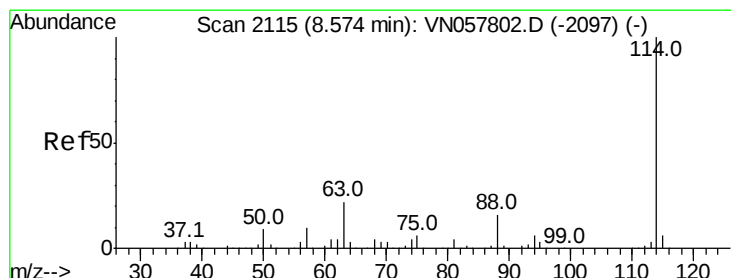
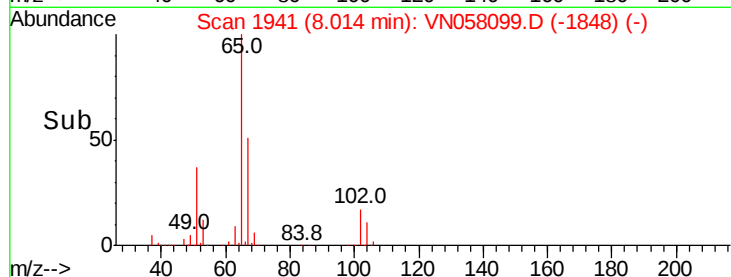
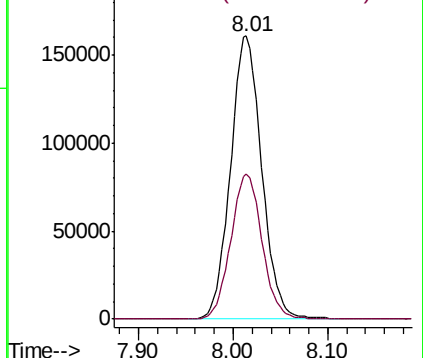
65 100

67 51.3 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: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

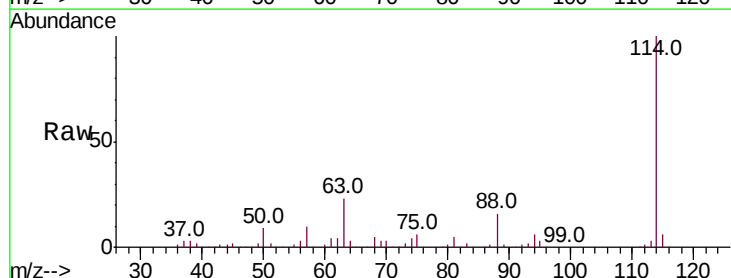
Tgt Ion: 114 Resp: 527959

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.0

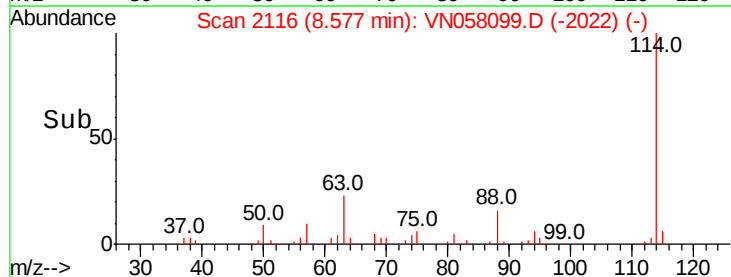
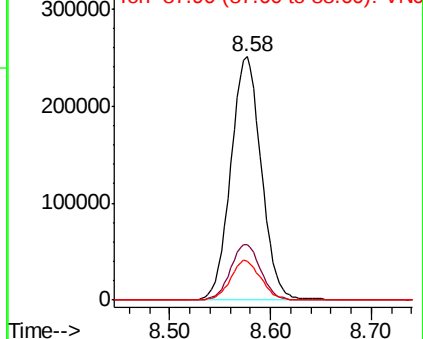
88 16.2 0.0 31.4

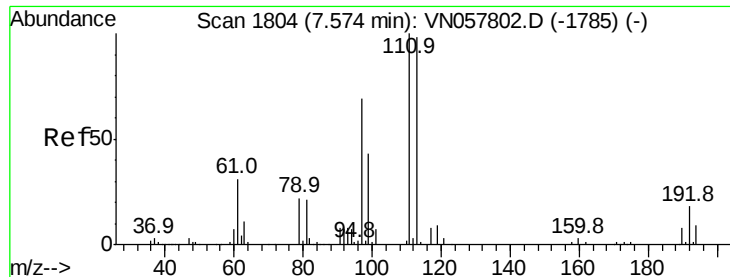


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#35

Dibromofluoromethane

Concen: 51.694 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

Instrument :
MSVOA_N
ClientSampled :

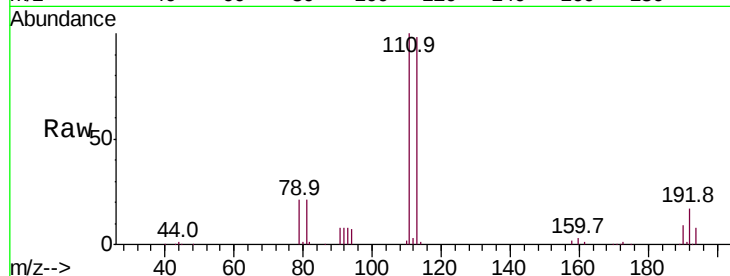
Tot Ion:113 Resp: 251895

Ion Ratio Lower Upper

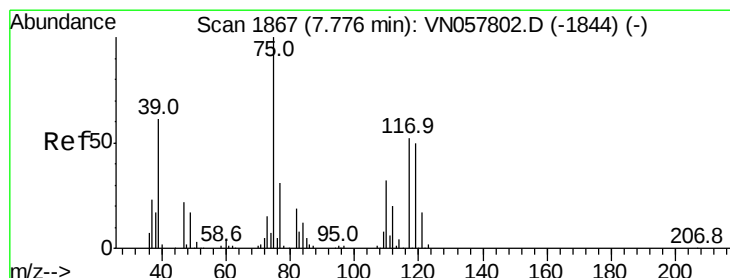
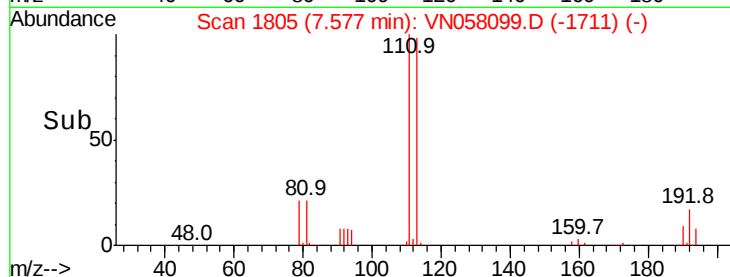
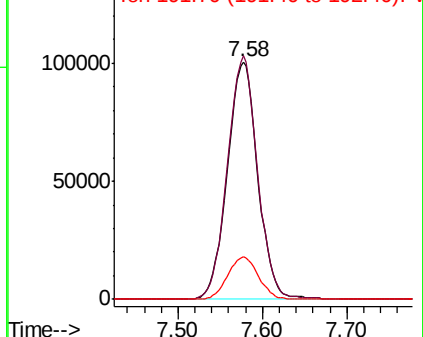
113 100

111 101.9 81.3 121.9

192 18.1 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: 4.498 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

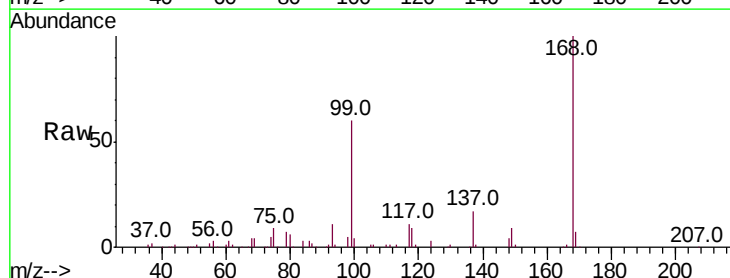
Tgt Ion: 75 Resp: 27538

Ion Ratio Lower Upper

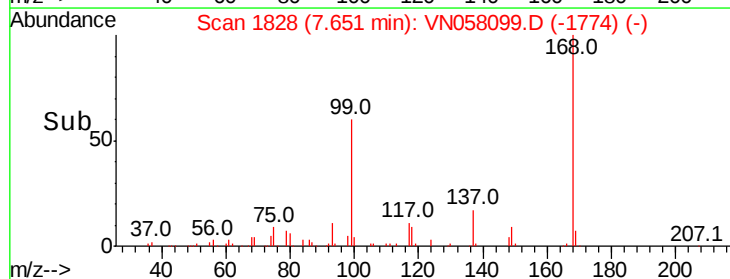
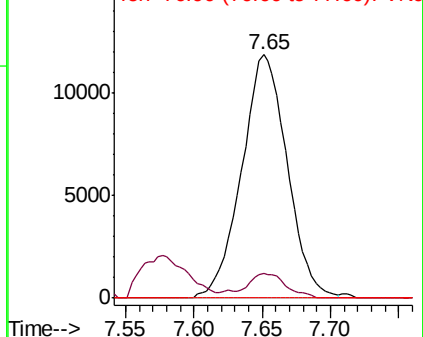
75 100

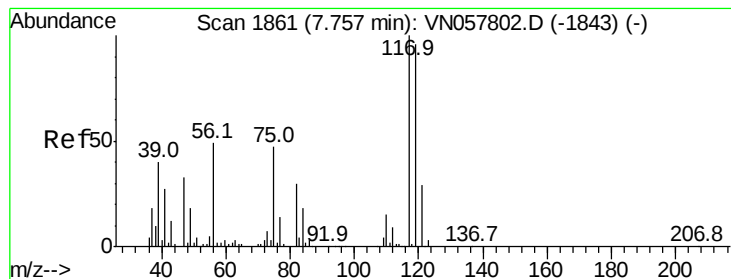
110 8.2 16.3 48.9#

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: 5.768 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :

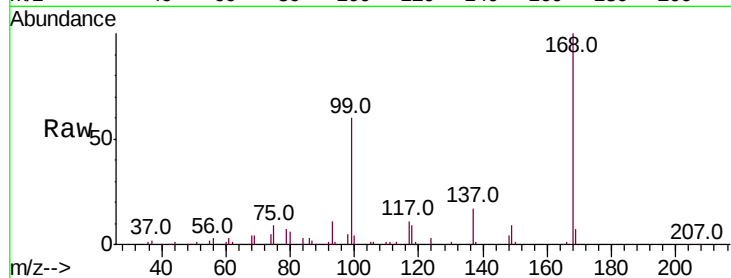
Tot Ion:117 Resp: 32247

Ion Ratio Lower Upper

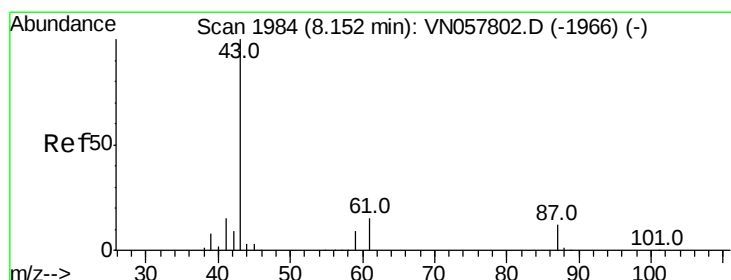
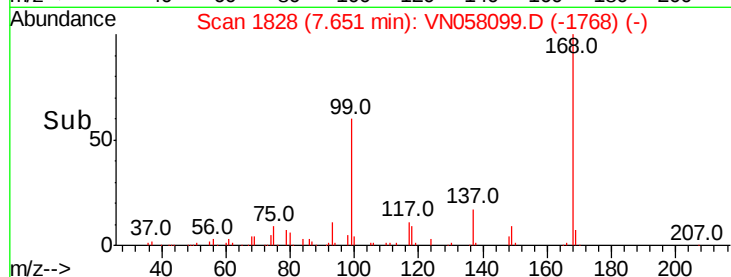
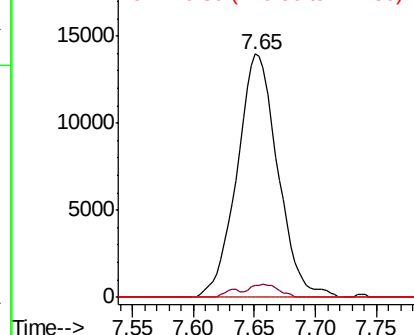
117 100

119 5.0 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: 13.096 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

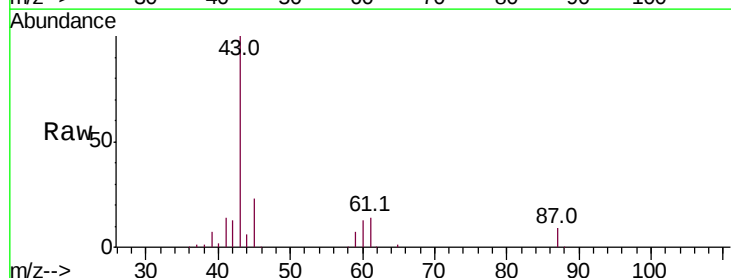
Tgt Ion: 43 Resp: 139321

Ion Ratio Lower Upper

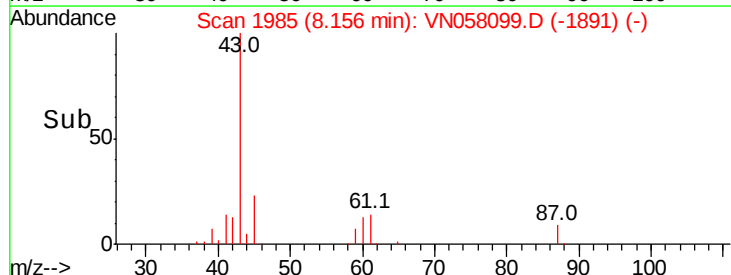
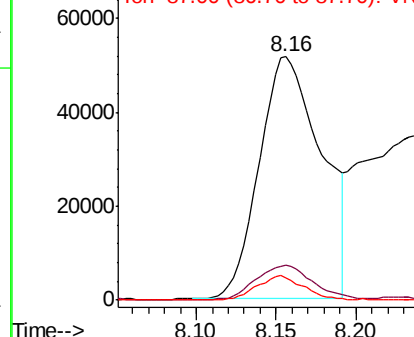
43 100

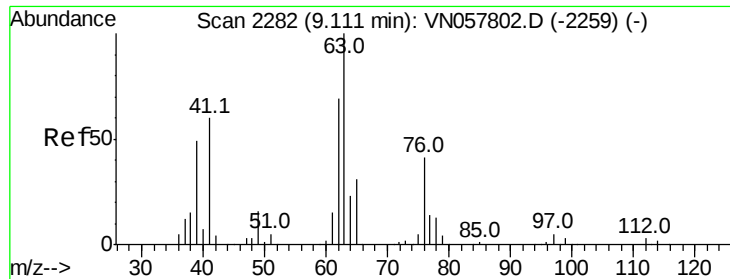
61 13.2 20.1 30.1#

87 7.5 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

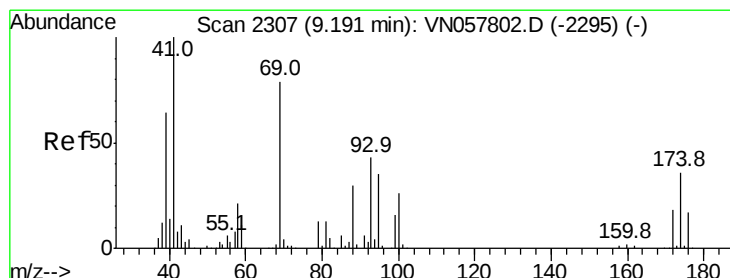
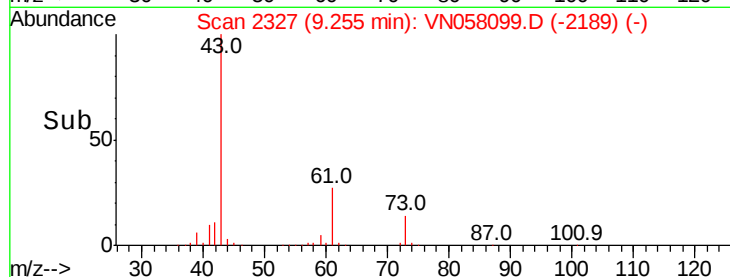
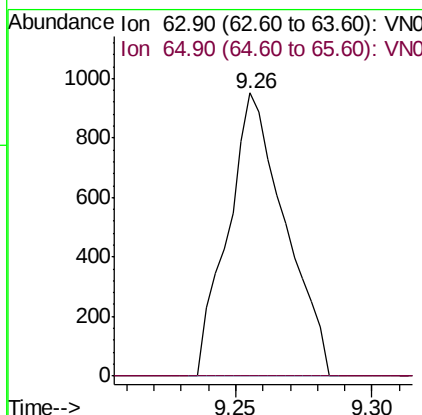
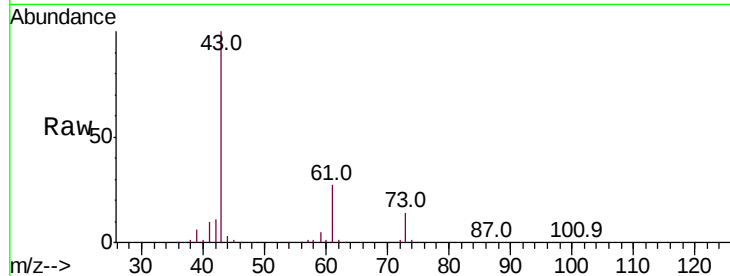




#45
 1,2-Dichloropropane
 Concen: 0.257 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.14 min
 Lab File: VN058099.D
 Acq: 15 Sep 2019 17:56

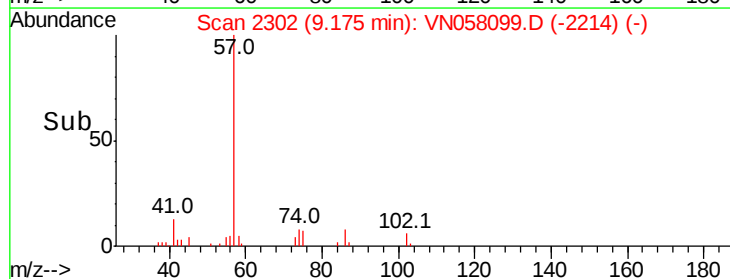
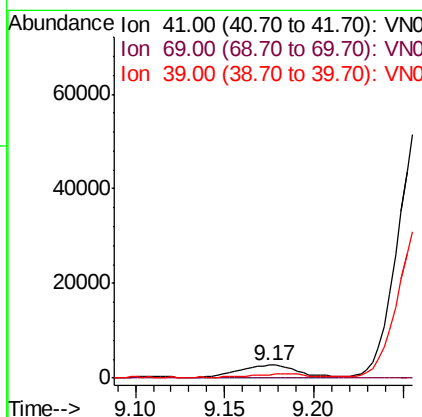
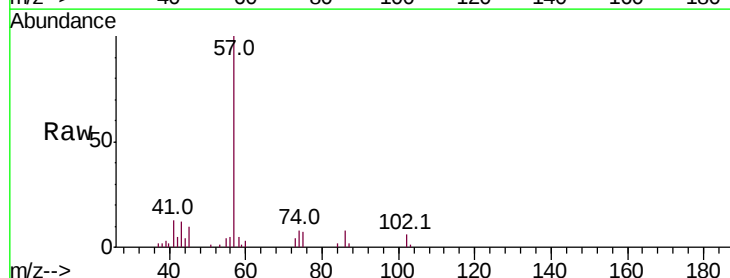
Instrument :
 MSVOA_N
 ClientSampled :

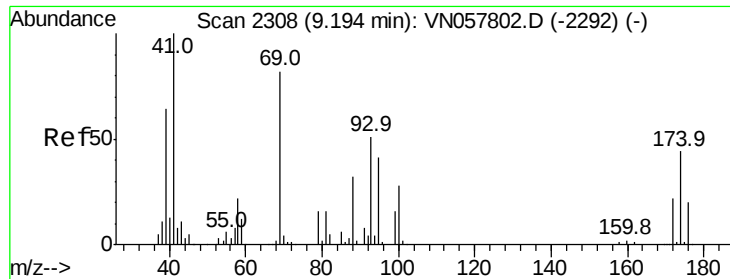
Tot Ion: 63 Resp: 1381
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.045 ug/l
 RT: 9.17 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN058099.D
 Acq: 15 Sep 2019 17:56

Tgt Ion: 41 Resp: 5637
 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: 0.340 ug/l

RT: 9.26 min Scan# 2328

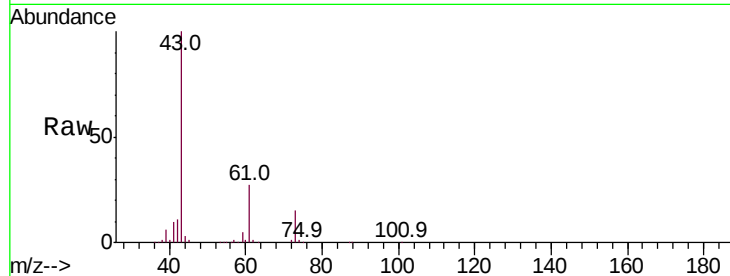
Delta R.T. 0.06 min

Lab File: VN058099.D

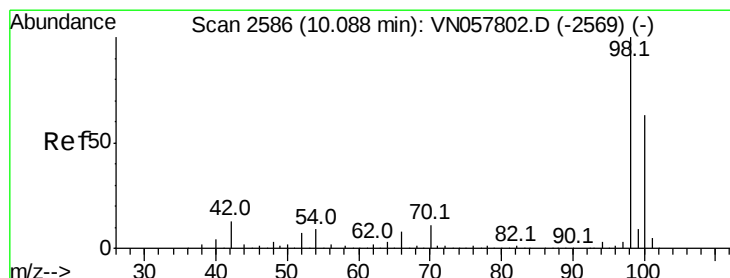
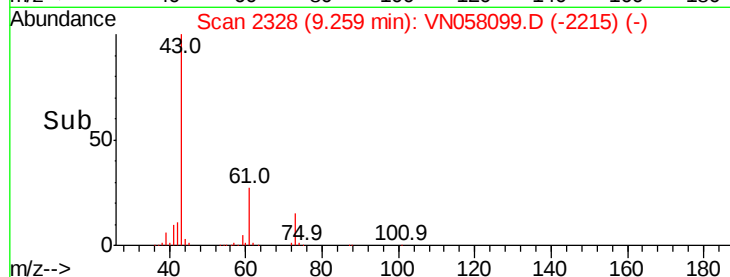
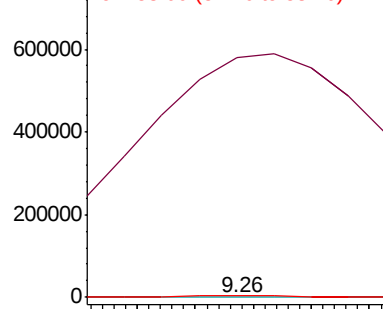
Acq: 15 Sep 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 3434235.5 28.5 42.7#
58 16812.9 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



#50

Toluene-d8

Concen: 51.747 ug/l

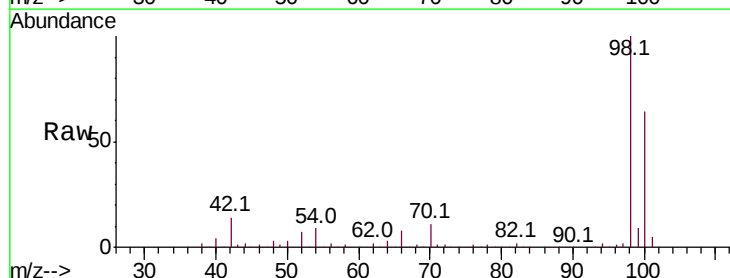
RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

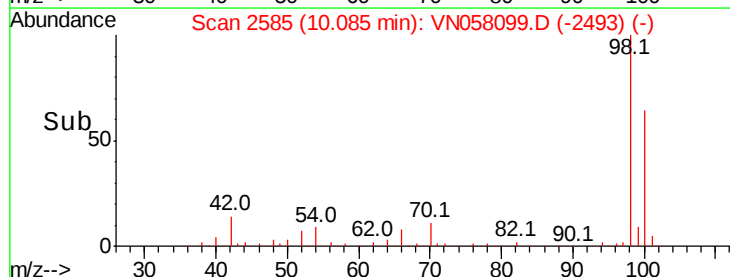
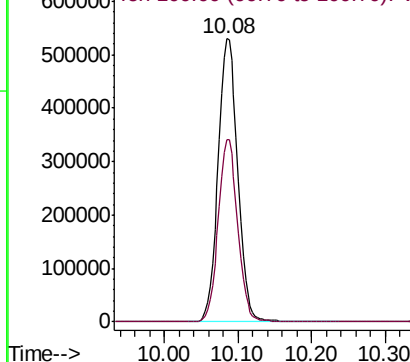
Lab File: VN058099.D

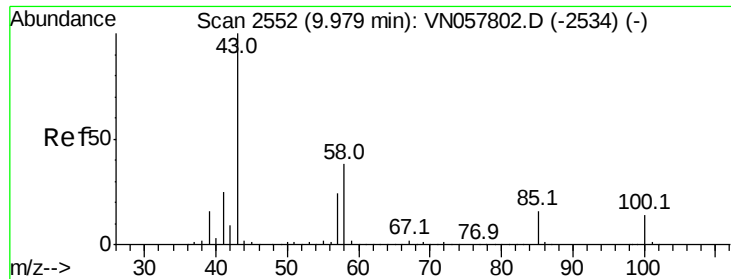
Acq: 15 Sep 2019 17:56

Tgt Ion: 98 Resp: 979006
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: 1.350 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

Instrument :

MSVOA_N

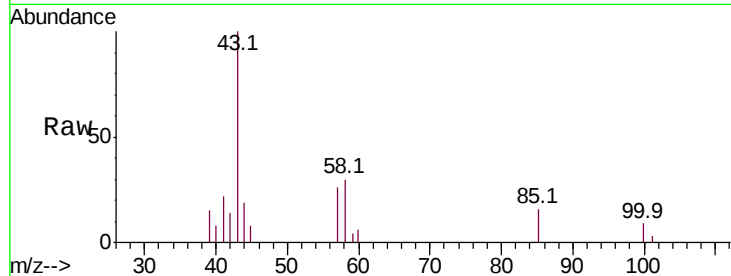
ClientSampleId :

Tot Ion: 43 Resp: 8497

Ion Ratio Lower Upper

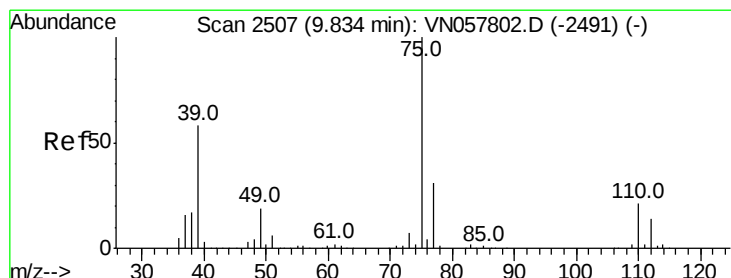
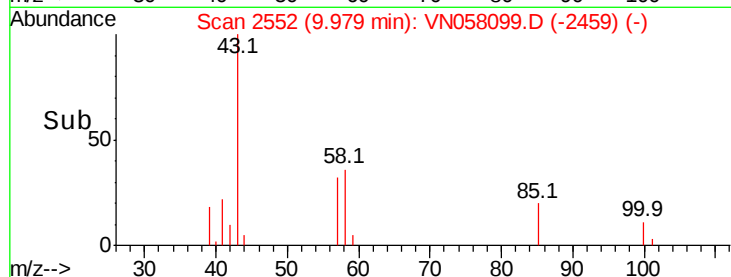
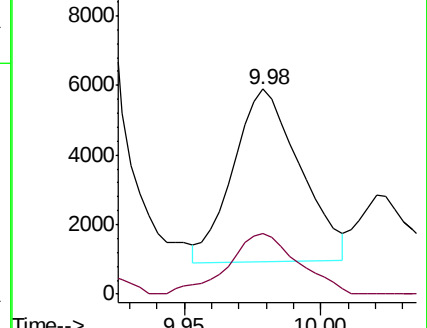
43 100

58 36.6 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.793 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

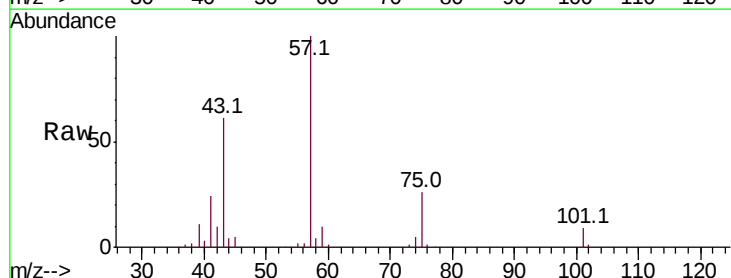
Tgt Ion: 75 Resp: 43597

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

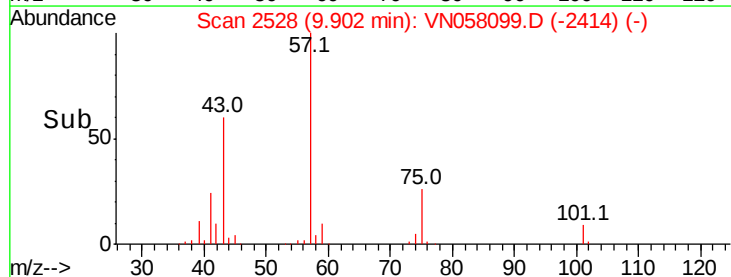
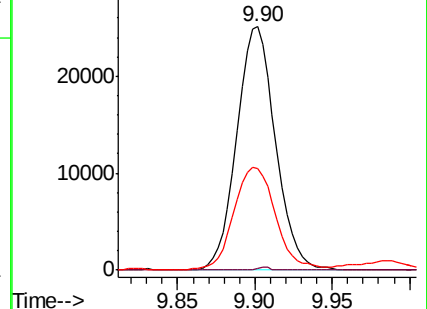
39 41.0 46.2 69.4#

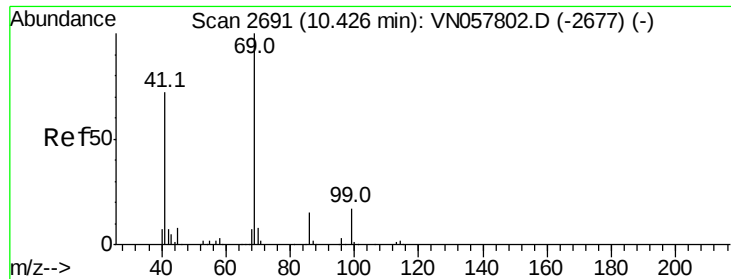


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)





#56

Ethyl methacrylate

Concen: 0.290 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

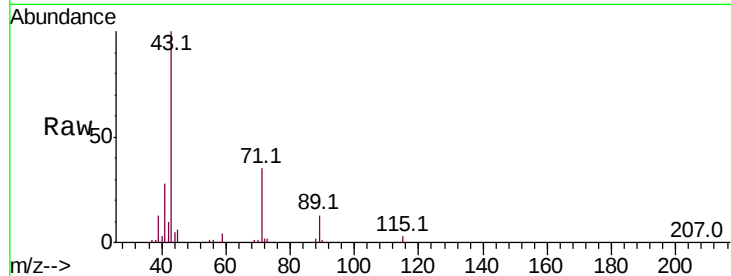
Tot Ion: 69 Resp: 2151

Ion Ratio Lower Upper

69 100

41 5377.3 56.7 85.1#

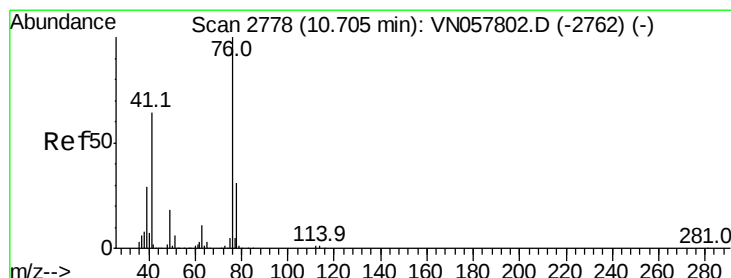
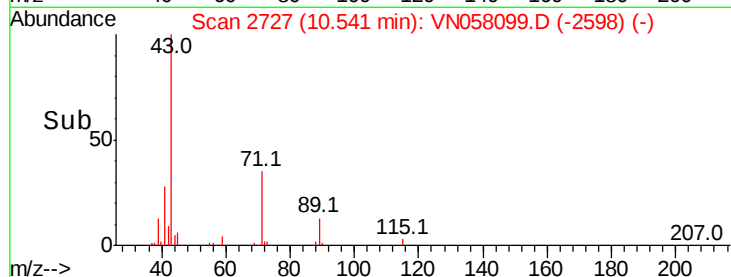
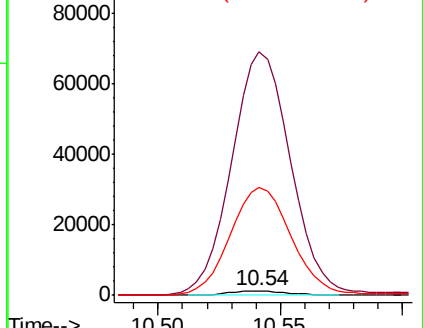
39 2485.8 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.586 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058099.D

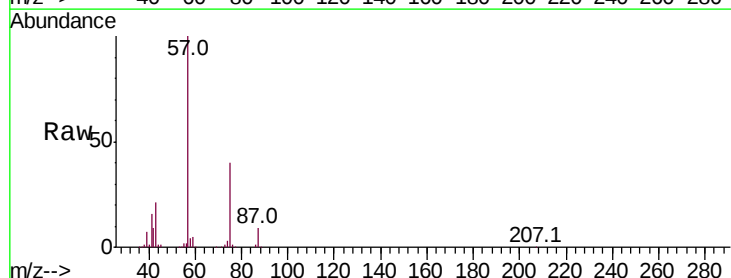
Acq: 15 Sep 2019 17:56

Tgt Ion: 76 Resp: 4965

Ion Ratio Lower Upper

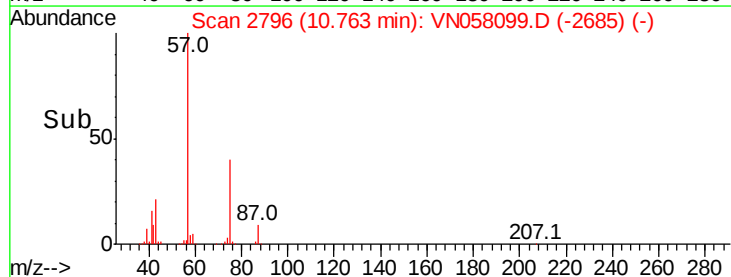
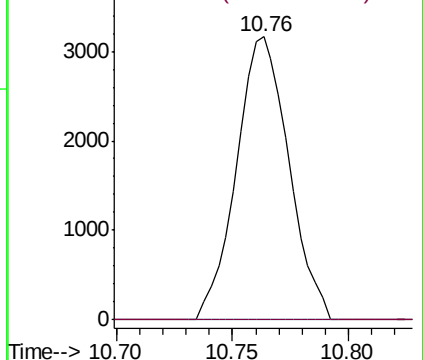
76 100

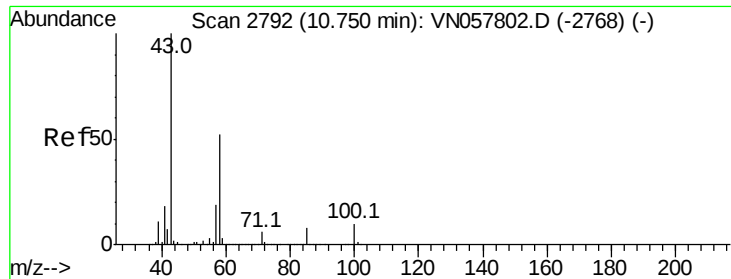
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

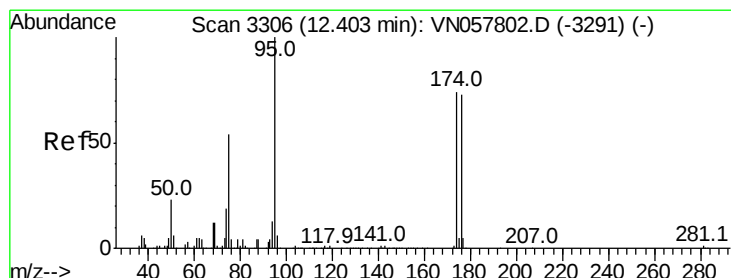
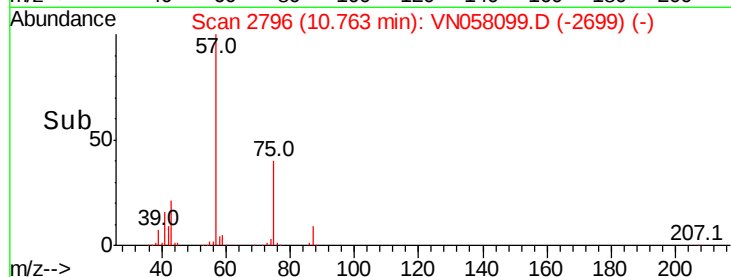
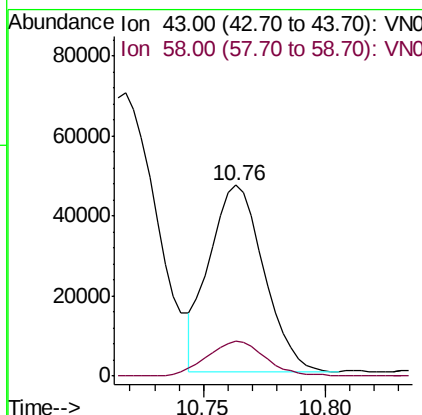
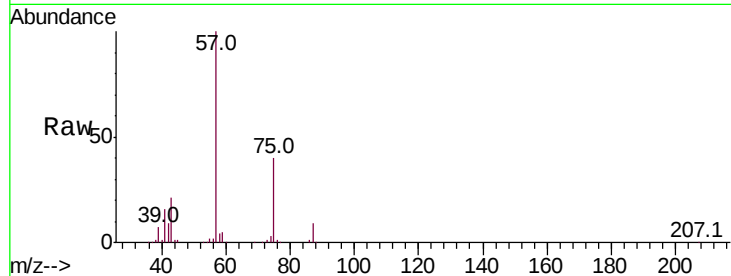




#59
2-Hexanone
Concen: 15.371 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

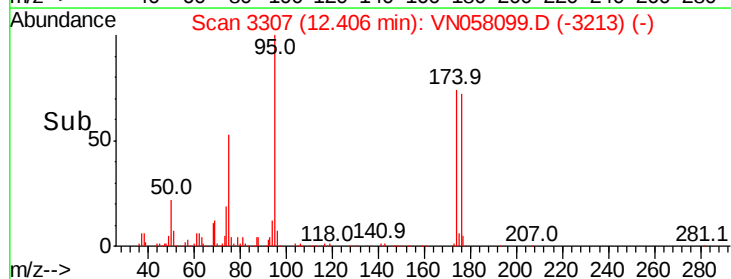
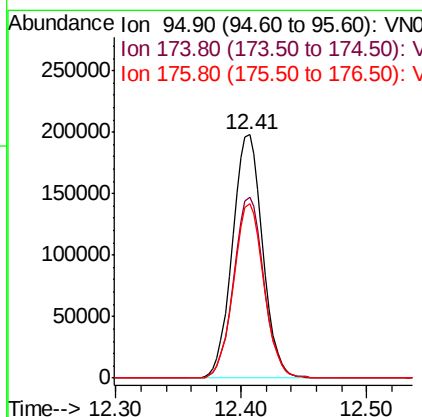
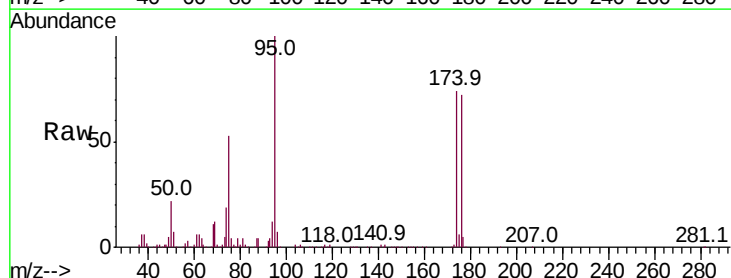
Instrument :
MSVOA_N
ClientSampleId :

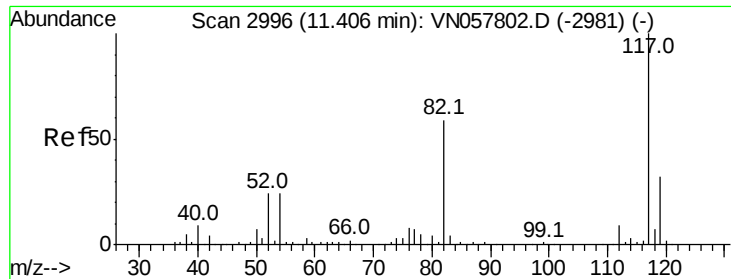
Tot Ion: 43 Resp: 72532
Ion Ratio Lower Upper
43 100
58 20.2 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 45.981 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

Tgt Ion: 95 Resp: 331514
Ion Ratio Lower Upper
95 100
174 74.2 0.0 150.2
176 71.7 0.0 146.0

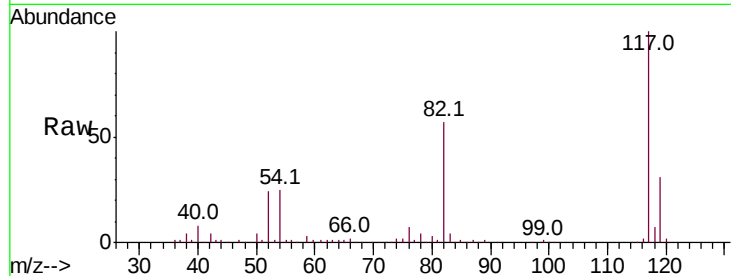




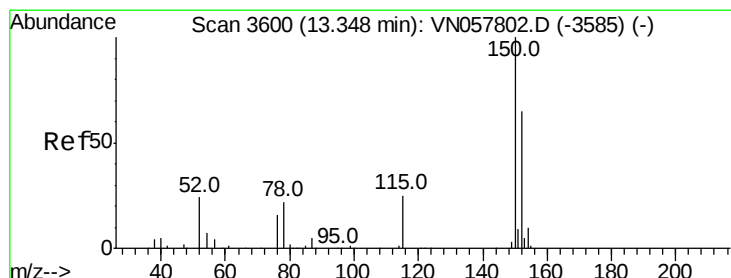
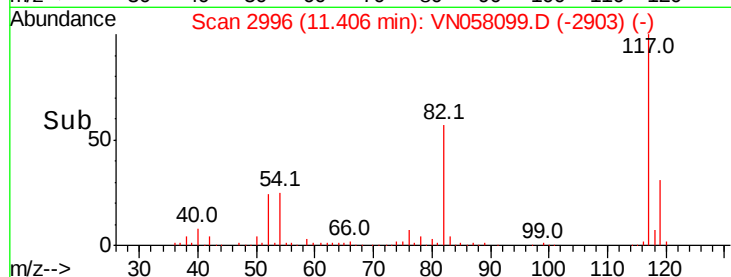
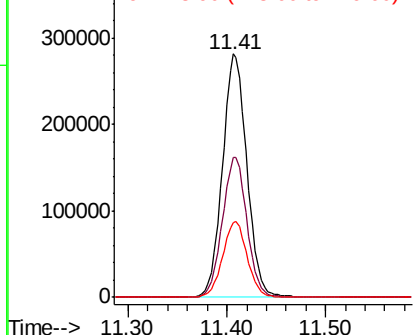
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 488932
Ion Ratio Lower Upper
117 100
82 57.4 47.2 70.8
119 30.7 25.3 37.9

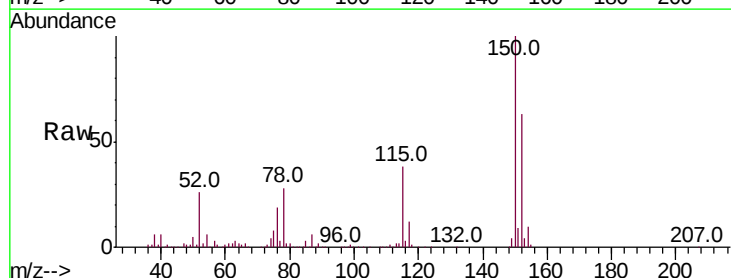


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

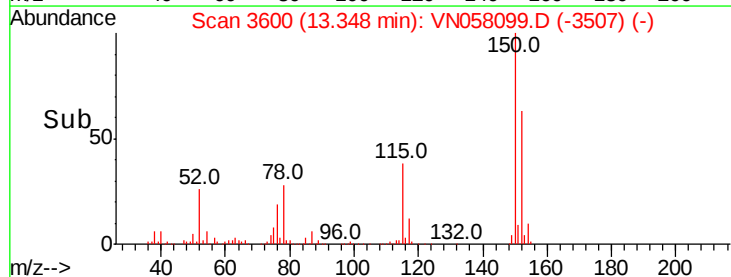
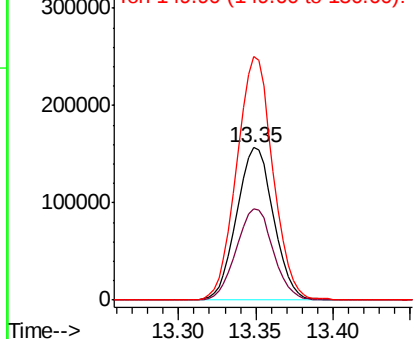


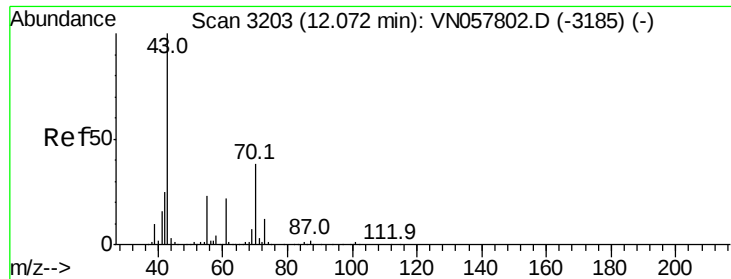
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

Tgt Ion:152 Resp: 260433
Ion Ratio Lower Upper
152 100
115 59.9 30.3 91.0
150 156.9 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: 0.583 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058099.D

Acq: 15 Sep 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 5130

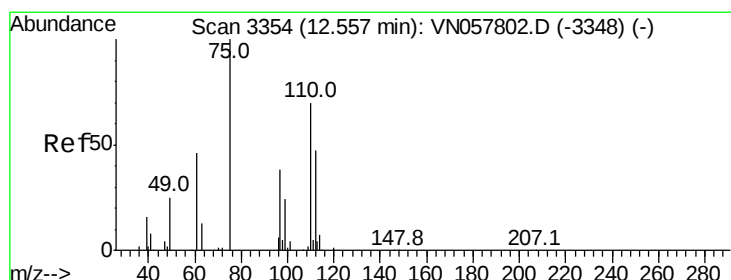
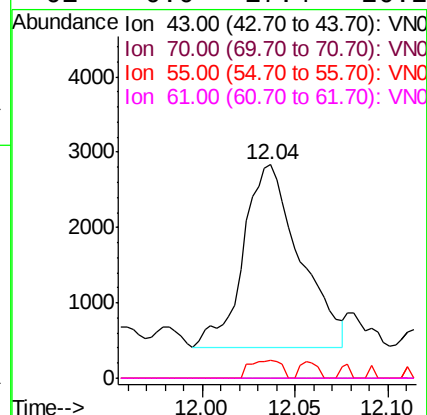
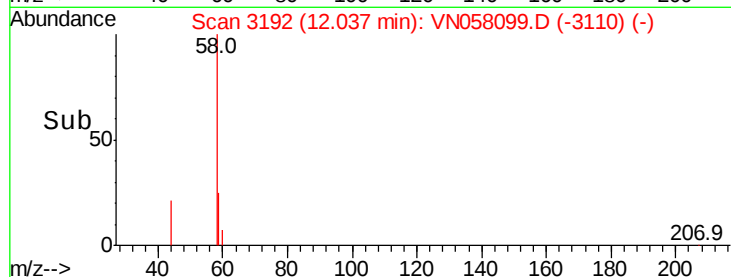
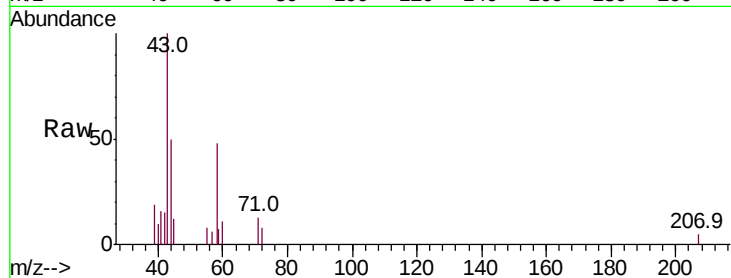
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.6 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 30.274 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058099.D

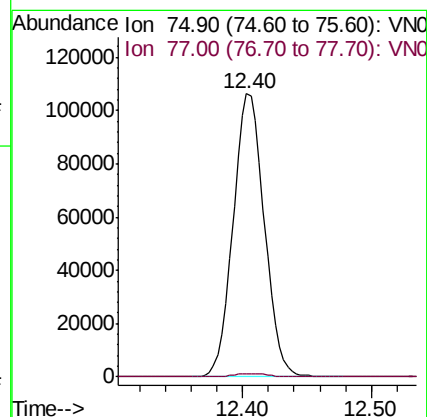
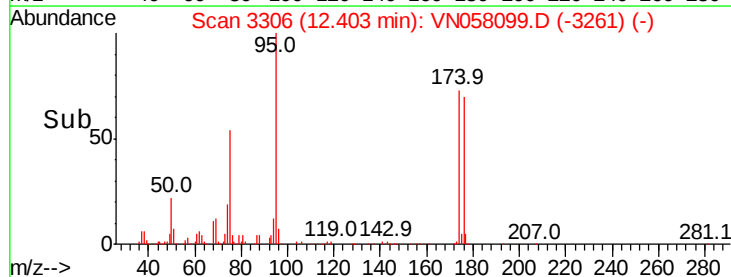
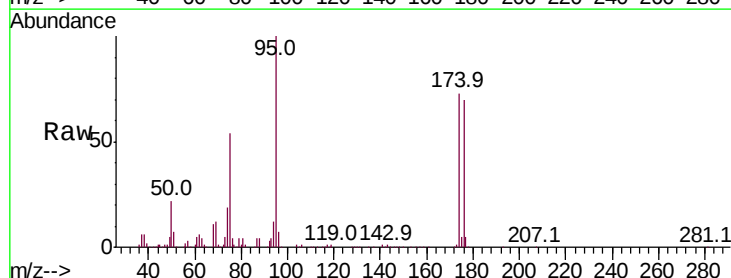
Acq: 15 Sep 2019 17:56

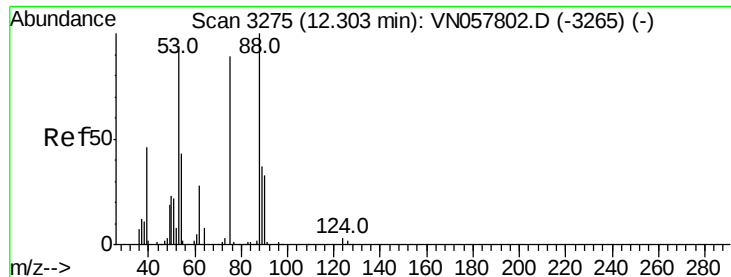
Tgt Ion: 75 Resp: 178356

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

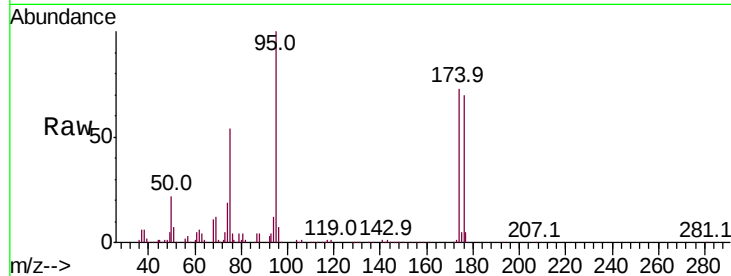




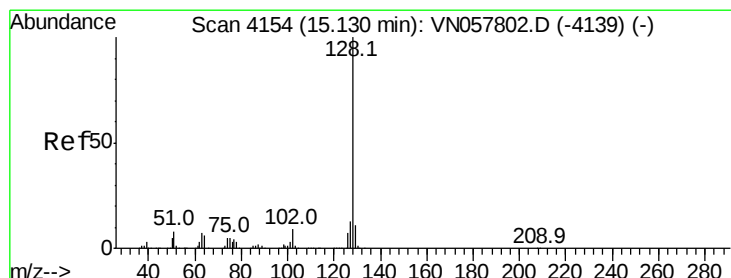
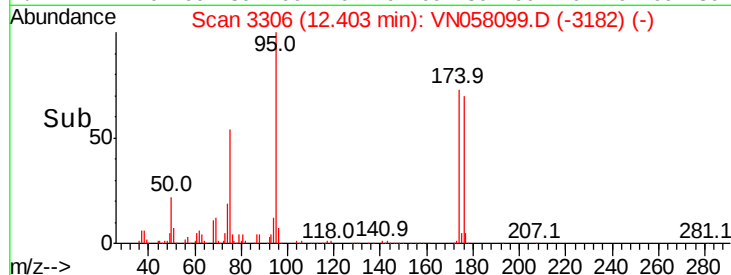
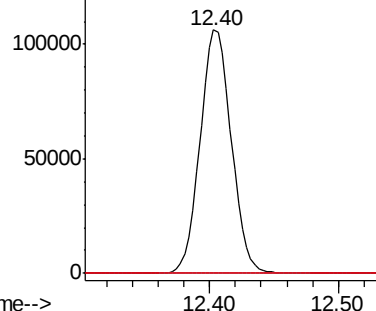
#81
trans-1,4-Dichloro-2-butene
Concen: 106.534 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 178356
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#

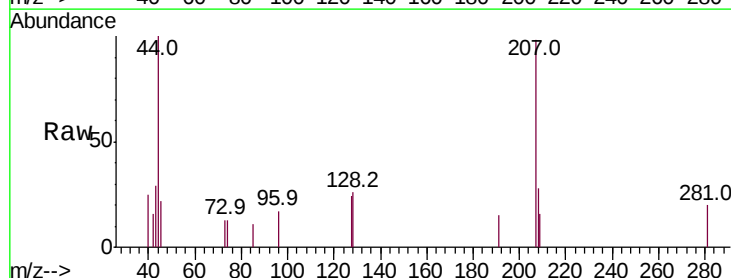


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058099.D
Acq: 15 Sep 2019 17:56

Tgt Ion: 128 Resp: 837
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

