

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058560.D
 Acq On : 7 Oct 2019 12:34
 Operator : JC/SP
 Sample : K5227-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 13:52:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:36:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	79043	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	464747	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	403375	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	212843	30.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.53%
60) 4-Bromofluorobenzene	12.41	95	199116	28.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.10%
63) Toluene-d8	10.09	98	573051	29.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.23%

Target Compounds

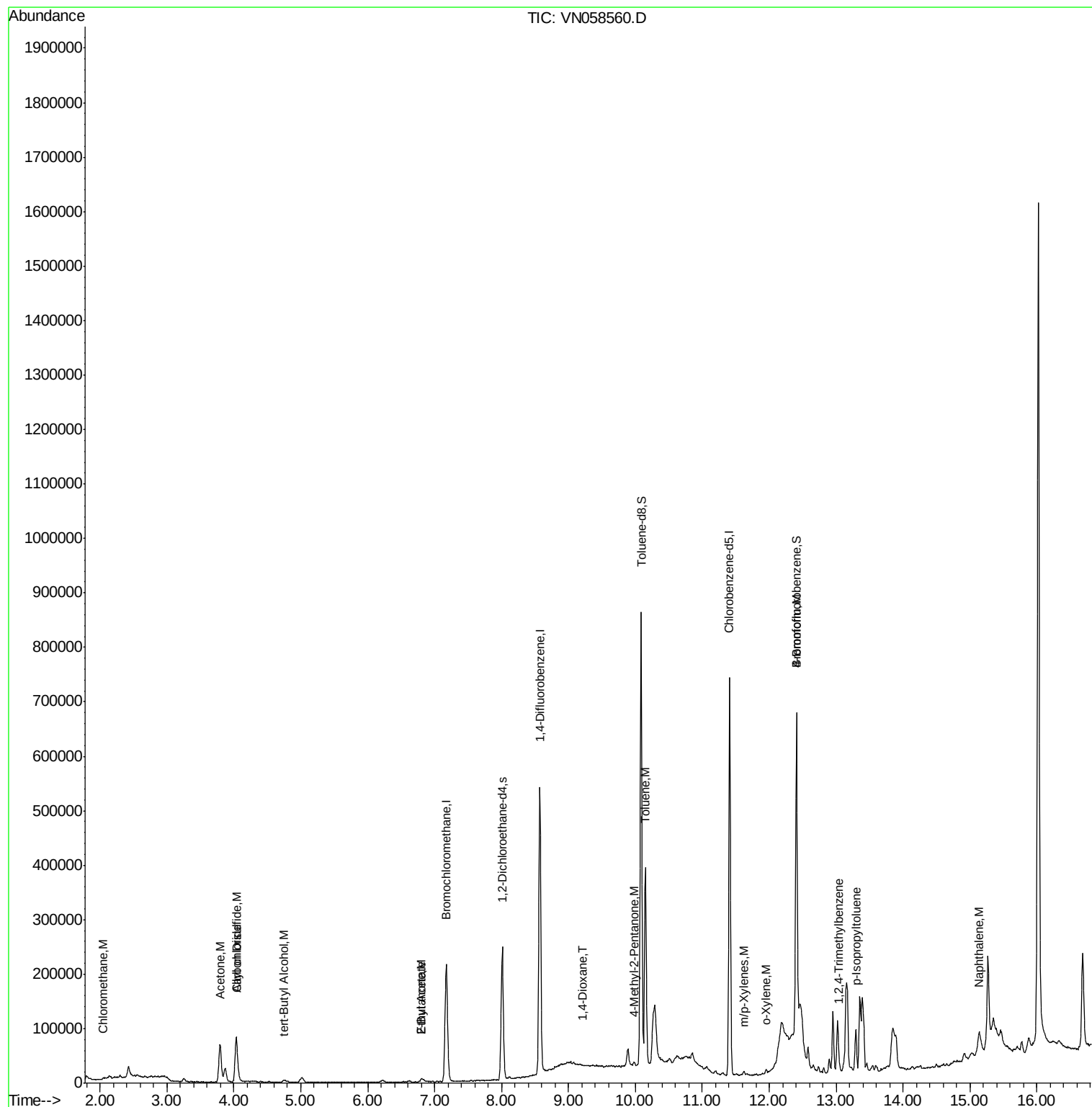
					Ovalue
3) Chloromethane	2.04	50	1423	0.259	ug/l 98
15) Acetone	3.80	58	34167	51.638	ug/l 96
16) Carbon Disulfide	4.03	76	2443	0.203	ug/l # 75
17) Allyl chloride	4.03	41	12773	1.576	ug/l 88
23) tert-Butyl Alcohol	4.74	59	3500	3.973	ug/l # 100
30) 2-Butanone	6.81	43	2586	0.751	ug/l # 86
43) Ethyl Acetate	6.81	43	2586	0.378	ug/l 97
45) 1,4-Dioxane	9.21	88	148	1.433	ug/l # 74
56) Bromoform	12.41	173	837	0.255	ug/l # 1
58) 4-Methyl-2-Pentanone	9.98	43	4495	0.711	ug/l # 90
62) Toluene	10.15	91	273286	12.370	ug/l 100
67) m/p-Xylenes	11.63	106	2329	0.252	ug/l 100
68) o-Xylene	11.95	106	1914	0.213	ug/l 78
80) 1,2,4-Trimethylbenzene	13.05	105	9007	0.450	ug/l 94
82) p-Isopropyltoluene	13.30	119	9008	0.439	ug/l 85
91) Naphthalene	15.14	128	6880	0.377	ug/l 99

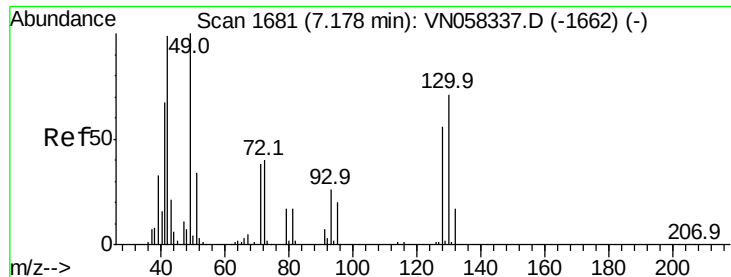
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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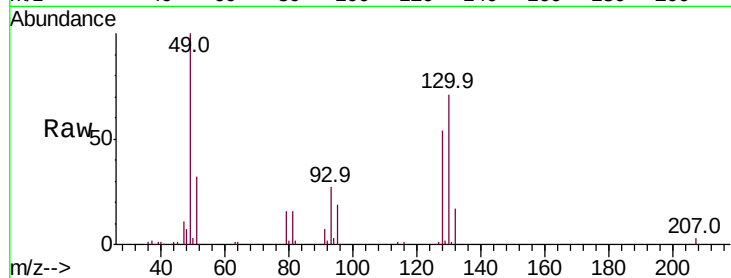




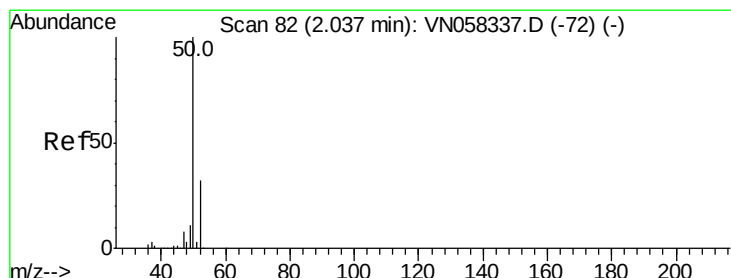
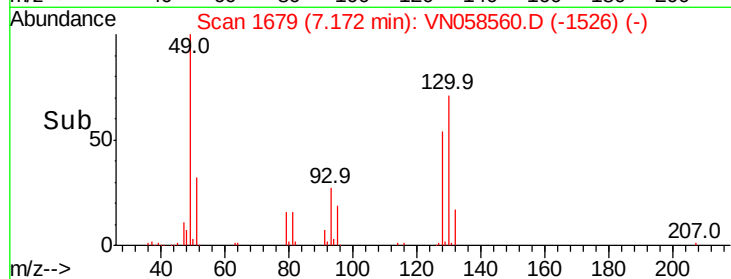
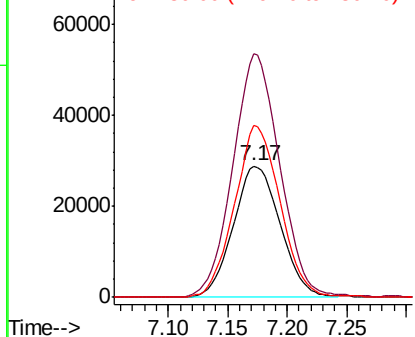
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 79043
Ion Ratio Lower Upper
128 100
49 185.2 0.0 458.5
130 126.8 0.0 320.7

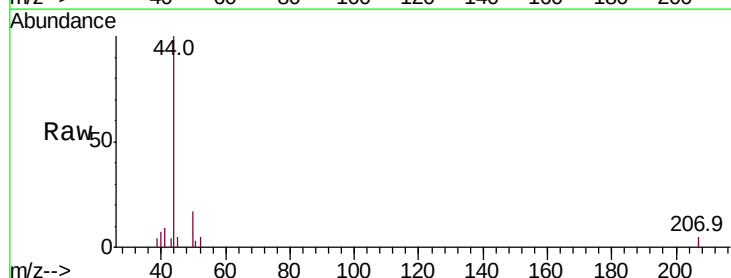


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VNO
Ion 130.00 (129.70 to 130.70): V

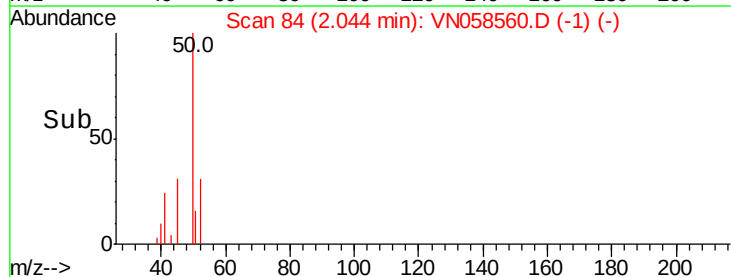
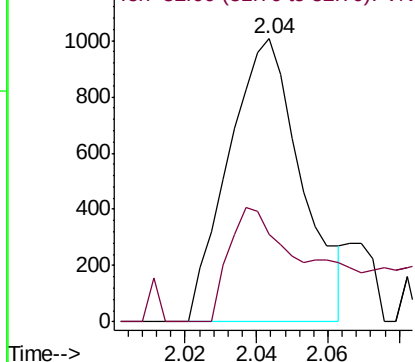


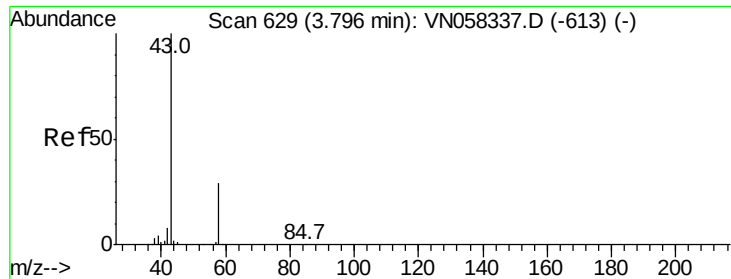
#3
Chloromethane
Concen: 0.259 ug/l
RT: 2.04 min Scan# 84
Delta R.T. 0.01 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

Tgt Ion: 50 Resp: 1423
Ion Ratio Lower Upper
50 100
52 31.0 25.9 38.9



Abundance Ion 50.00 (49.70 to 50.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#15

Acetone

Concen: 51.638 ug/l

RT: 3.80 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN058560.D

Acq: 7 Oct 2019 12:34

Instrument :

MSVOA_N

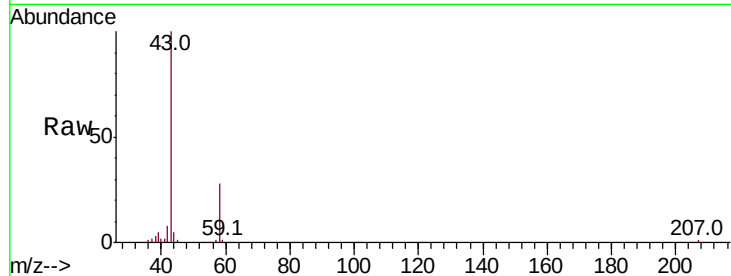
ClientSampled :

Tot Ion: 58 Resp: 34167

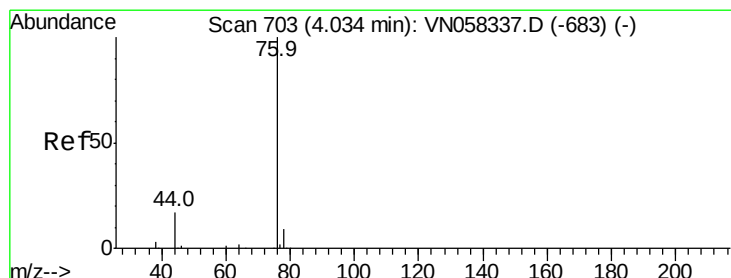
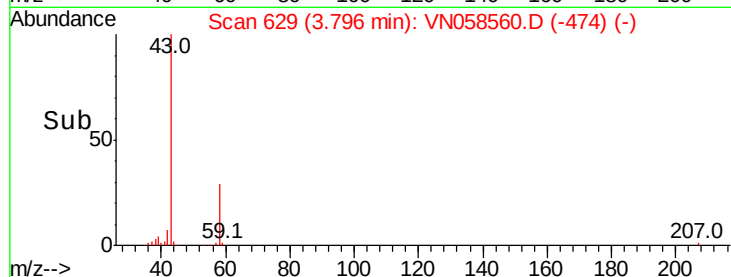
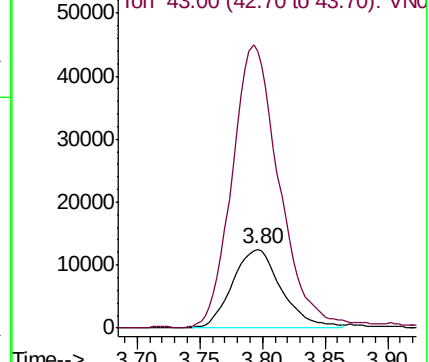
Ion Ratio Lower Upper

58 100

43 348.7 272.6 409.0



Abundance Ion 58.00 (57.70 to 58.70): VN058337.D (-613) (-)



#16

Carbon Disulfide

Concen: 0.203 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058560.D

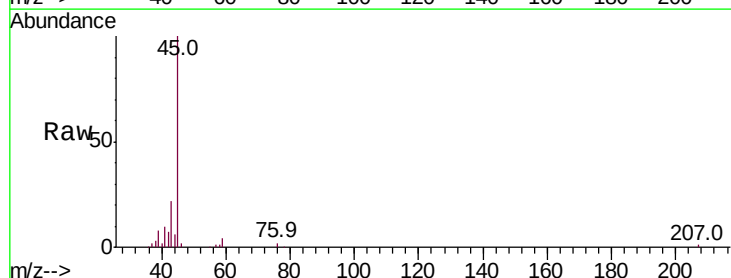
Acq: 7 Oct 2019 12:34

Tgt Ion: 76 Resp: 2443

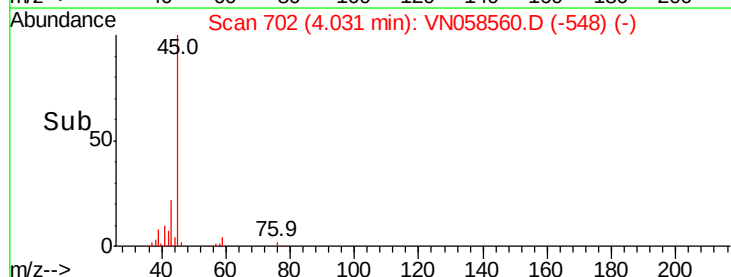
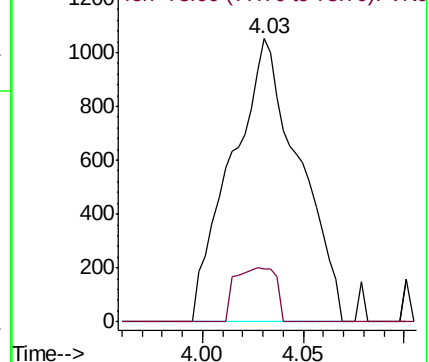
Ion Ratio Lower Upper

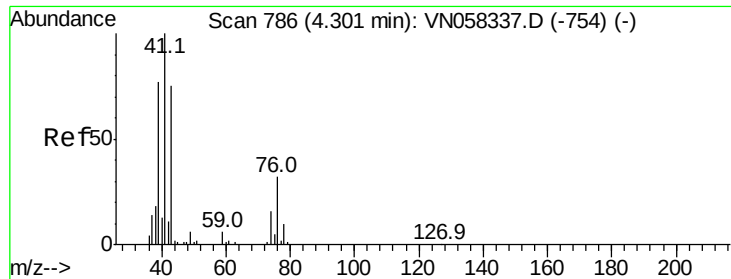
76 100

78 18.5 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VN058337.D (-683) (-)

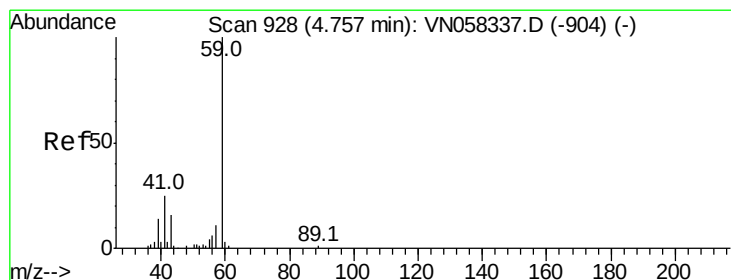
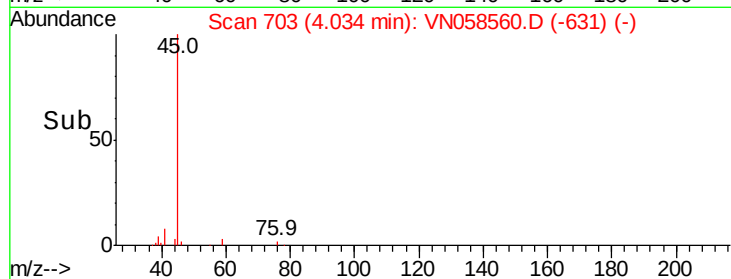
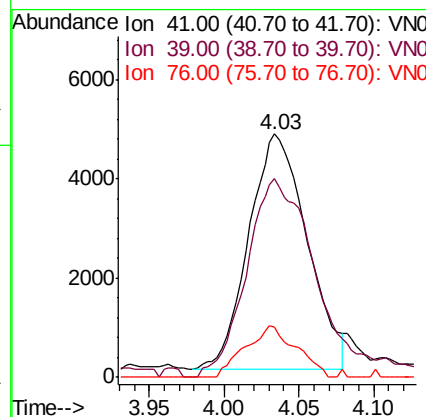
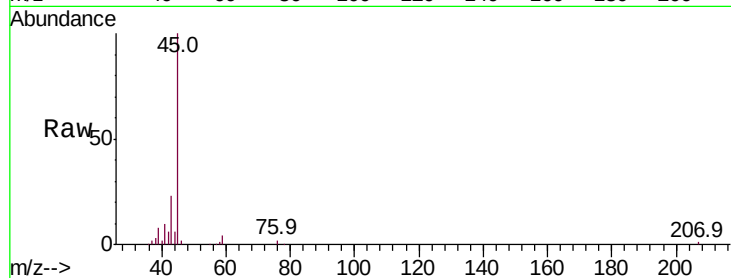




#17
Allvl chloride
Concen: 1.576 ug/l
RT: 4.03 min Scan# 703
Delta R.T. -0.27 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

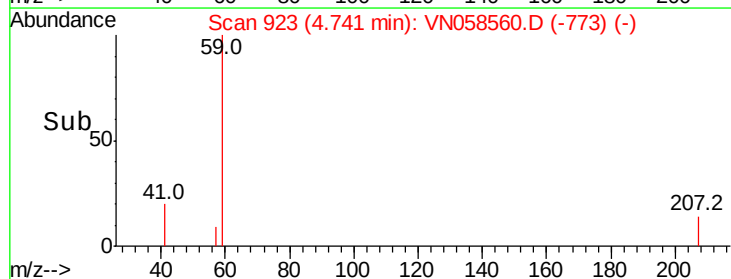
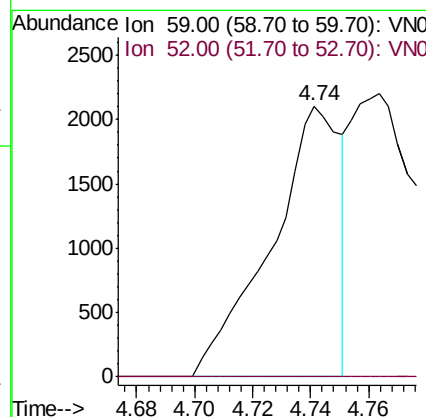
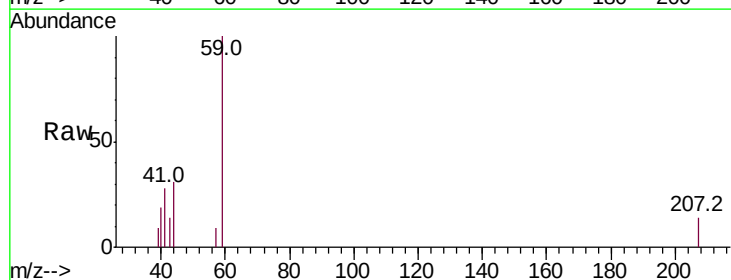
Instrument :
MSVOA_N
ClientSampled :

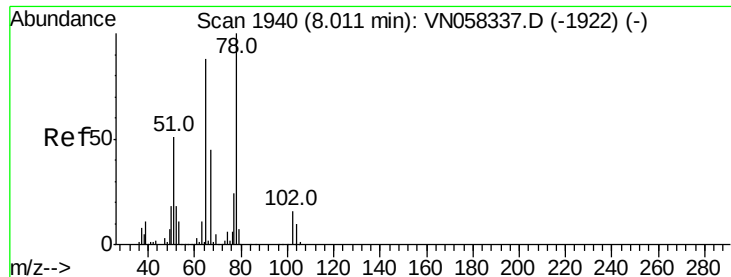
Tot Ion: 41 Resp: 12773
Ion Ratio Lower Upper
41 100
39 84.5 38.7 116.1
76 21.1 16.4 49.1



#23
tert-Butyl Alcohol
Concen: 3.973 ug/l
RT: 4.74 min Scan# 923
Delta R.T. -0.02 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

Tgt Ion: 59 Resp: 3500
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

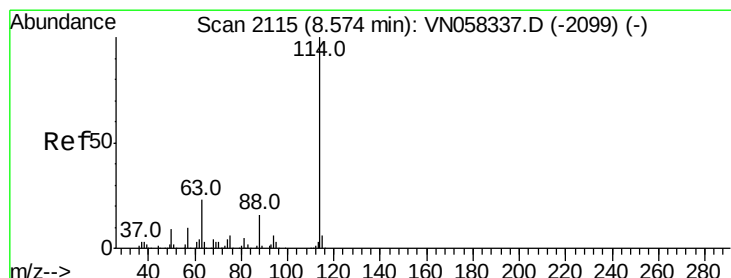
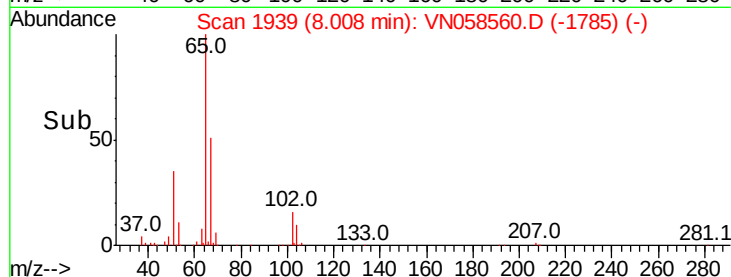
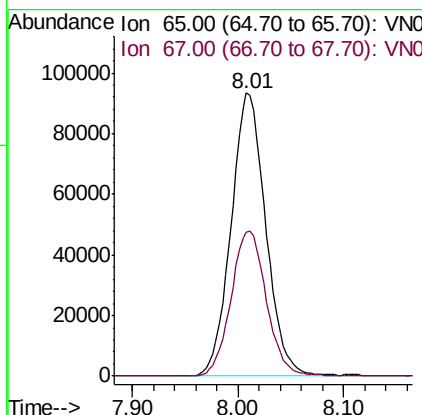
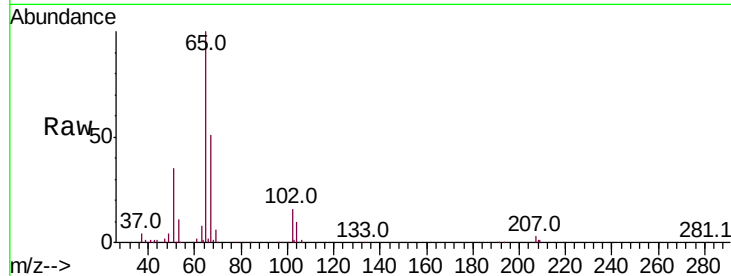




#27
 1,2-Dichloroethane-d4
 Concen: 30.461 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN058560.D
 Acq: 7 Oct 2019 12:34

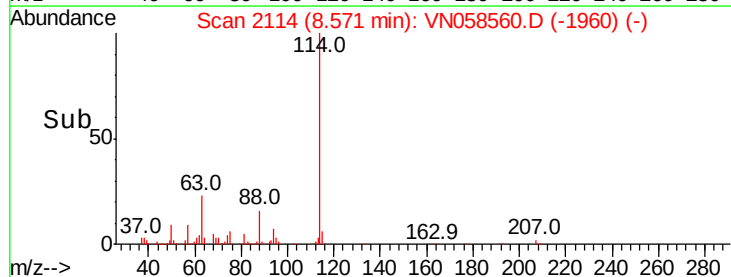
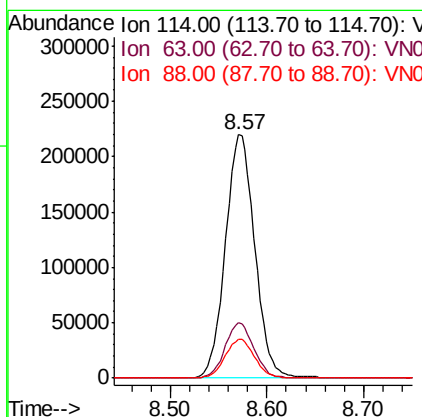
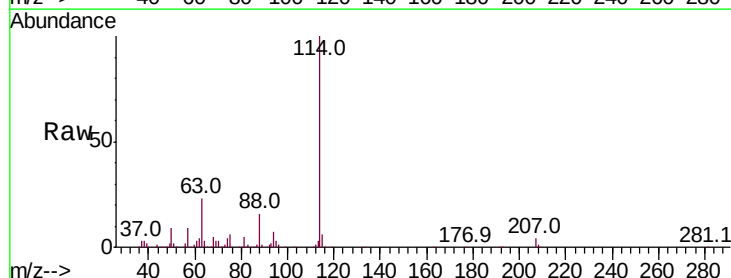
Instrument :
 MSVOA_N
 ClientSampleId :

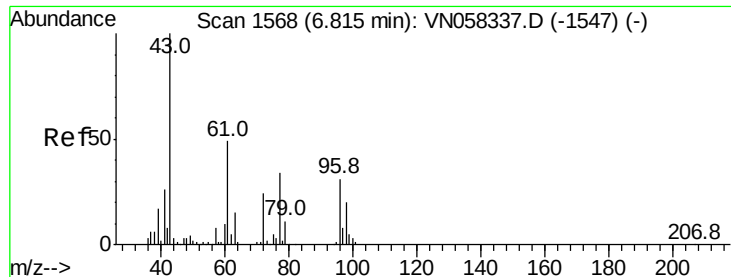
Tot Ion: 65 Resp: 212843
 Ion Ratio Lower Upper
 65 100
 67 52.3 40.4 60.6



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058560.D
 Acq: 7 Oct 2019 12:34

Tgt Ion: 114 Resp: 464747
 Ion Ratio Lower Upper
 114 100
 63 22.3 17.8 26.8
 88 16.1 12.7 19.1

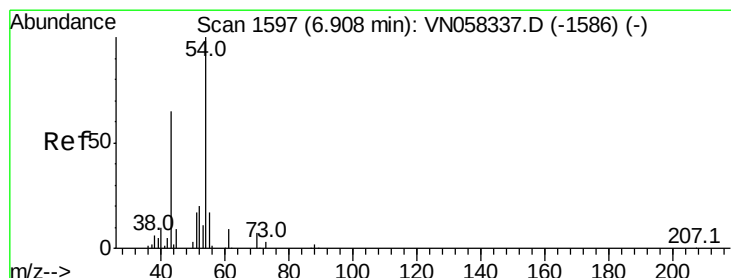
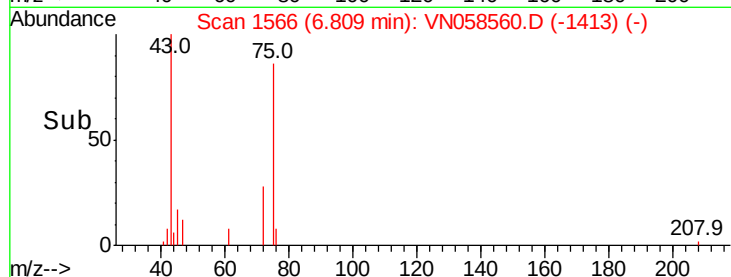
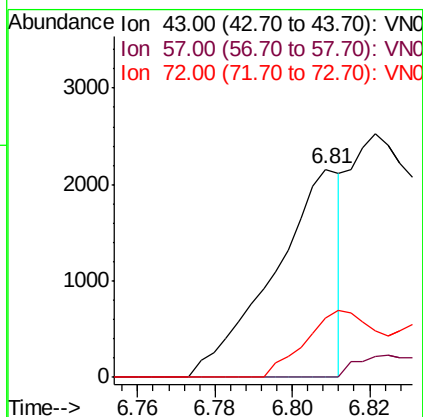
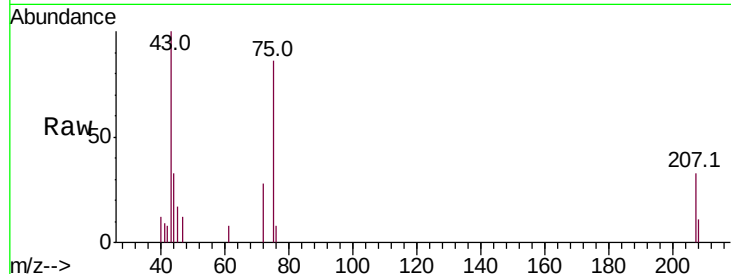




#30
 2-Butanone
 Concen: 0.751 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: VN058560.D
 Acq: 7 Oct 2019 12:34

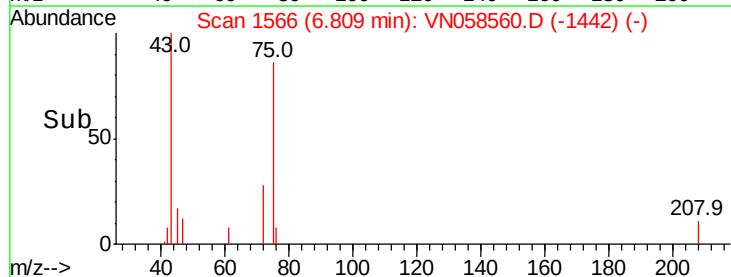
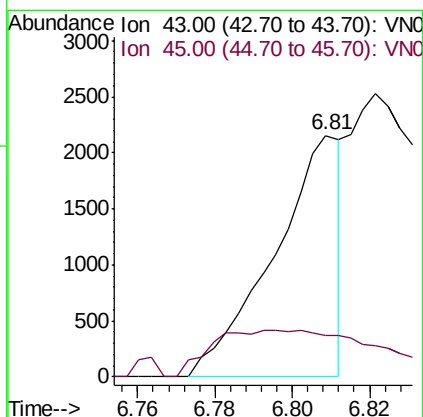
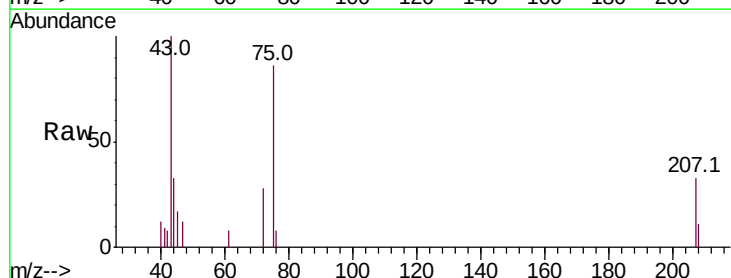
Instrument :
 MSVOA_N
 ClientSampleId :

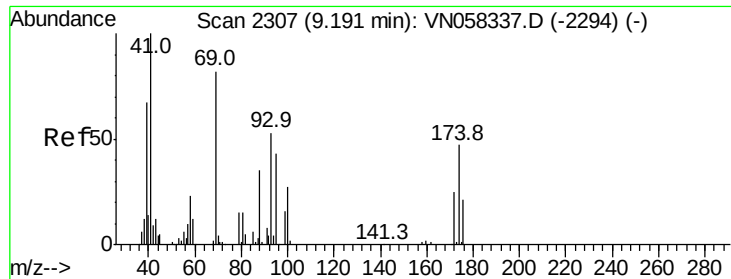
Tot Ion: 43 Resp: 2586
 Ion Ratio Lower Upper
 43 100
 57 7.2 6.2 9.4
 72 34.3 20.3 30.5#



#43
 Ethyl Acetate
 Concen: 0.378 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.10 min
 Lab File: VN058560.D
 Acq: 7 Oct 2019 12:34

Tgt Ion: 43 Resp: 2586
 Ion Ratio Lower Upper
 43 100
 45 13.5 9.8 14.6





#45

1,4-Dioxane

Concen: 1.433 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.02 min

Lab File: VN058560.D

Acq: 7 Oct 2019 12:34

Instrument :
MSVOA_N
ClientSampleId :

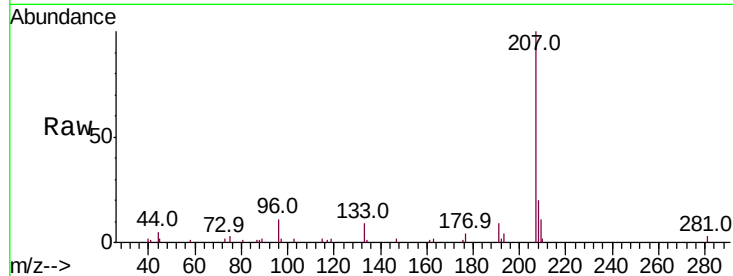
Tot Ion: 88 Resp: 148

Ion Ratio Lower Upper

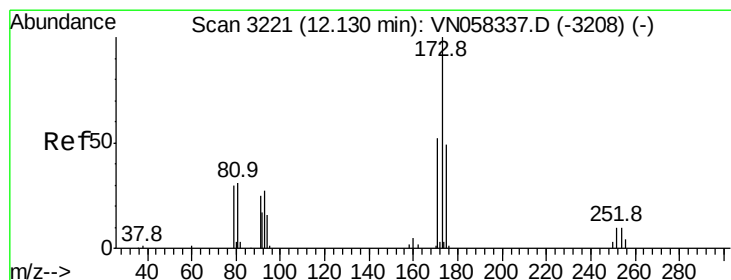
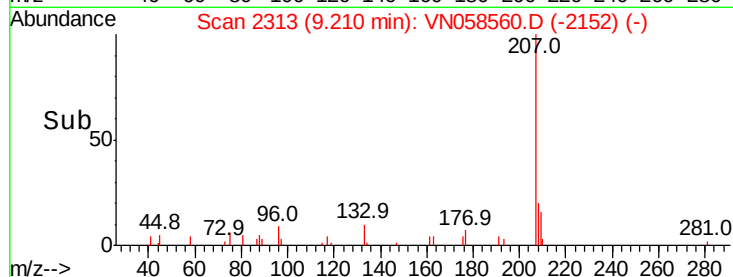
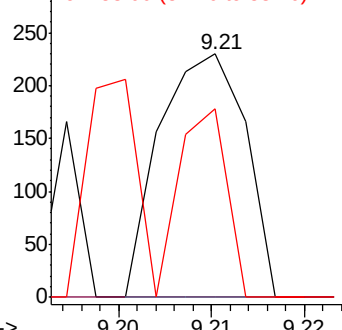
88 100

43 42.6 27.2 40.8#

58 43.2 55.4 83.0#



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



#56

Bromoform

Concen: 0.255 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058560.D

Acq: 7 Oct 2019 12:34

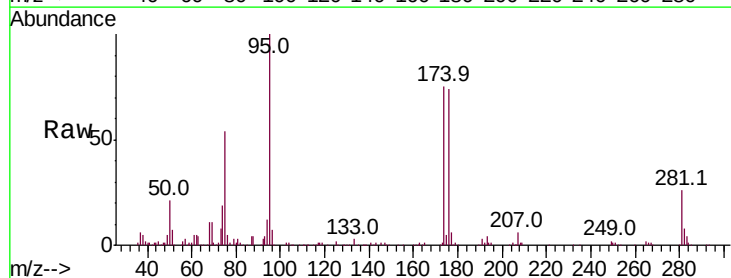
Tgt Ion:173 Resp: 837

Ion Ratio Lower Upper

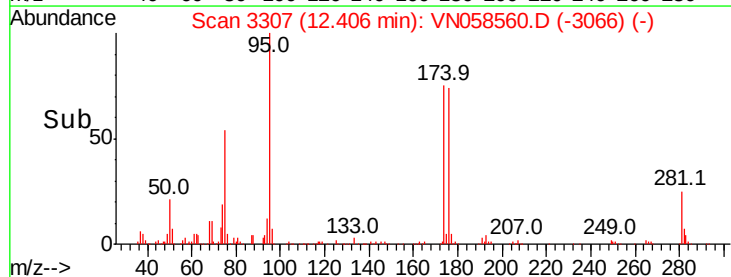
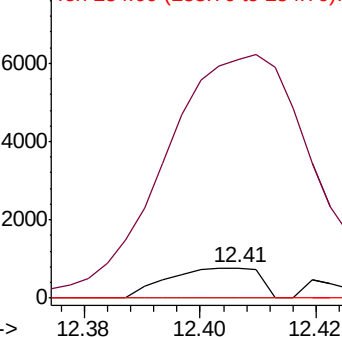
173 100

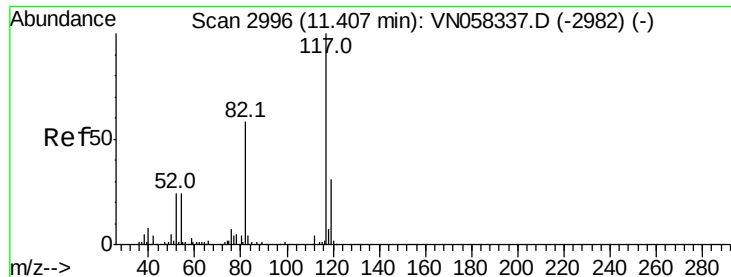
175 1342.7 38.8 58.2#

254 0.0 7.8 11.8#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

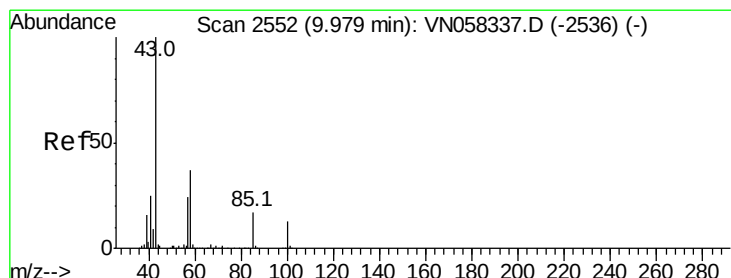
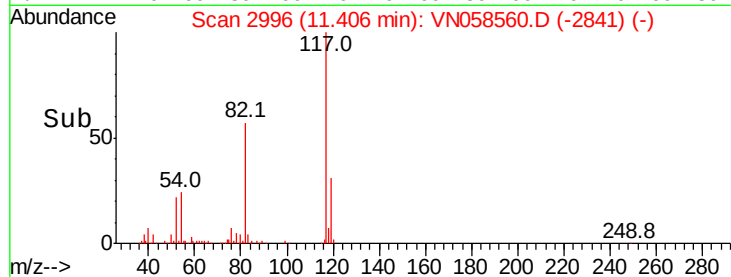
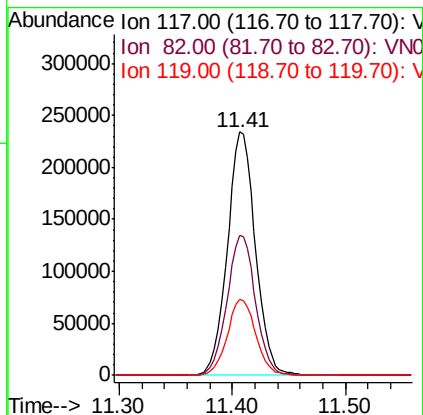
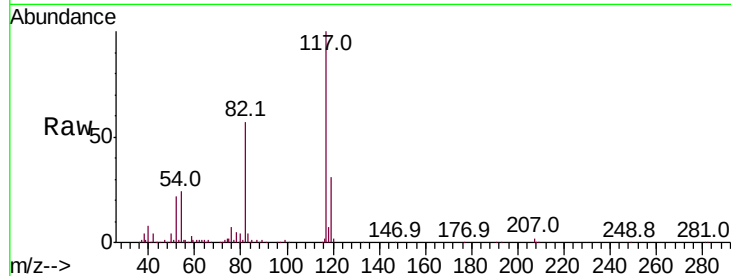




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

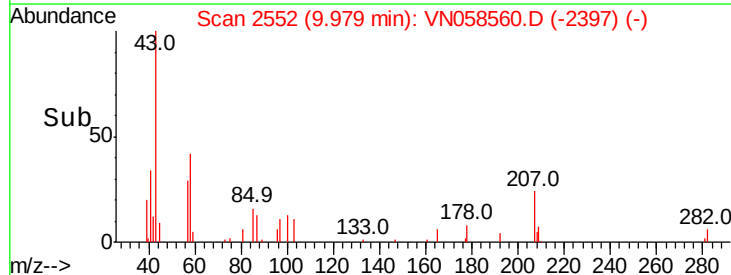
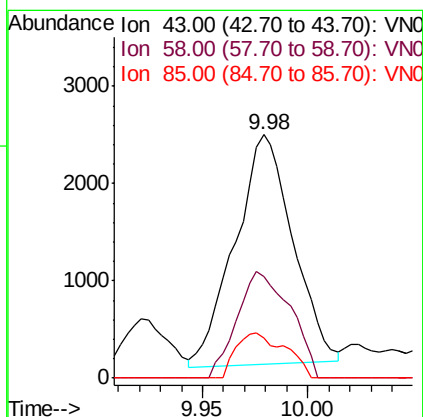
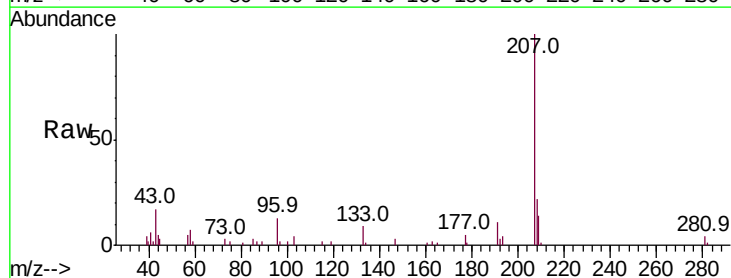
Instrument :
MSVOA_N
ClientSampled :

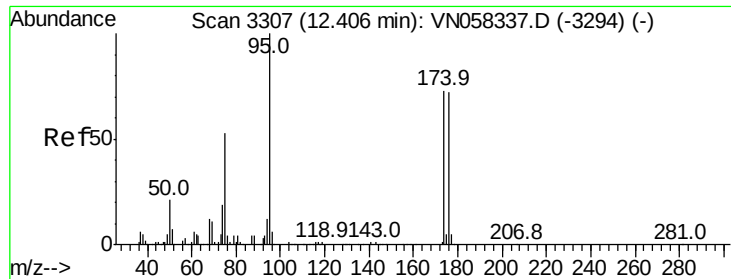
Tot Ion:117 Resp: 403375
Ion Ratio Lower Upper
117 100
82 58.5 46.4 69.6
119 31.5 25.1 37.7



#58
4-Methyl-2-Pentanone
Concen: 0.711 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.00 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

Tgt Ion: 43 Resp: 4495
Ion Ratio Lower Upper
43 100
58 42.8 29.3 43.9
85 12.4 13.1 19.7#





#60

4-Bromofluorobenzene

Concen: 28.528 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN058560.D

Acq: 7 Oct 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

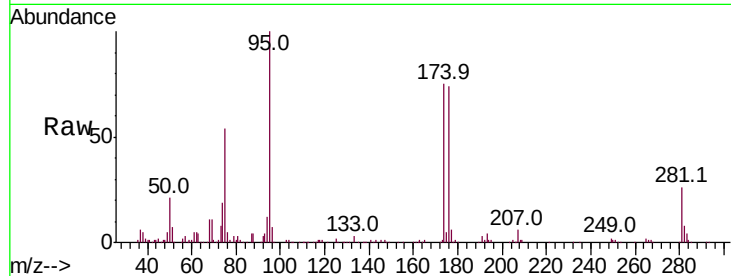
Tot Ion: 95 Resp: 199116

Ion Ratio Lower Upper

95 100

174 75.1 59.0 88.6

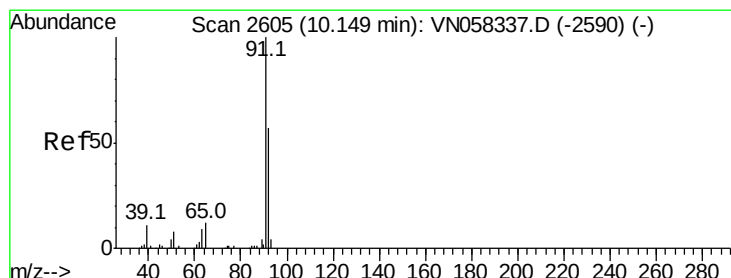
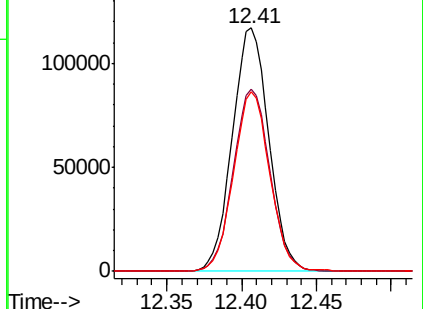
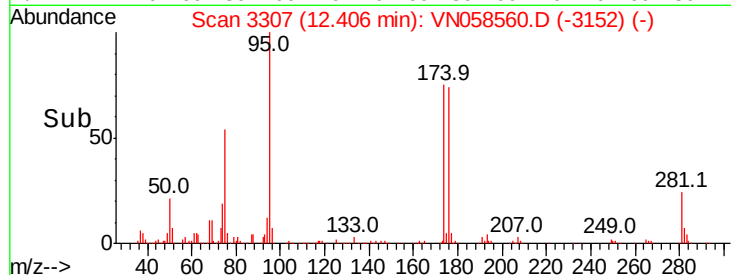
176 72.8 58.2 87.2



Abundance Ion 95.00 (94.70 to 95.70): VN058337.D (-3294) (-)

Ion 174.00 (173.70 to 174.70): VN058337.D (-3294) (-)

Ion 176.00 (175.70 to 176.70): VN058337.D (-3294) (-)



#62

Toluene

Concen: 12.370 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058560.D

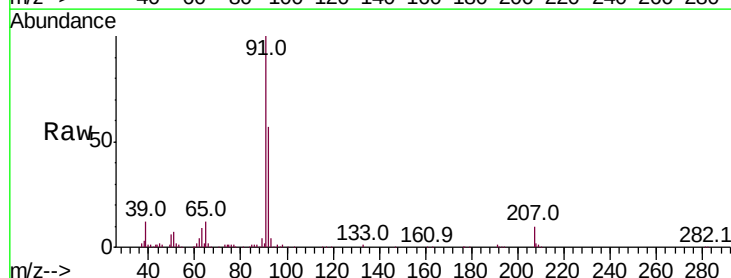
Acq: 7 Oct 2019 12:34

Tgt Ion: 91 Resp: 273286

Ion Ratio Lower Upper

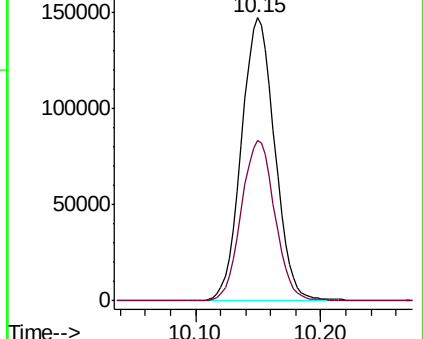
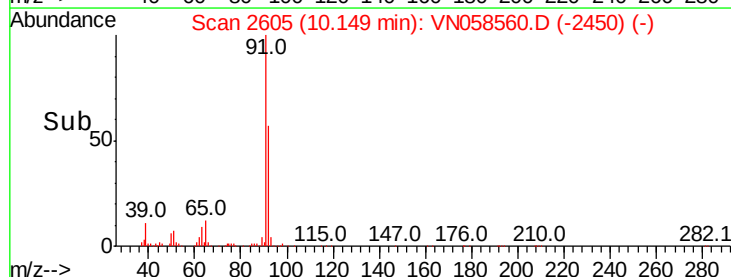
91 100

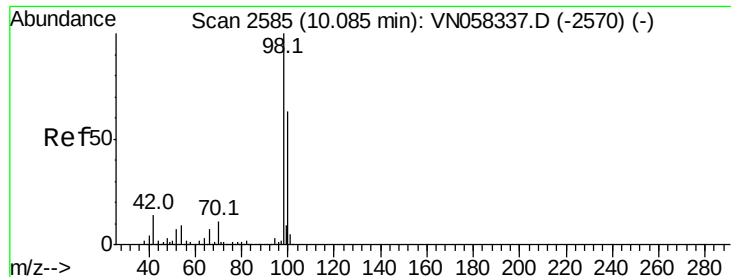
92 56.9 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VN058337.D (-2590) (-)

Ion 92.00 (91.70 to 92.70): VN058337.D (-2590) (-)





#63

Toluene-d8

Concen: 29.768 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058560.D

Acq: 7 Oct 2019 12:34

Instrument :

MSVOA_N

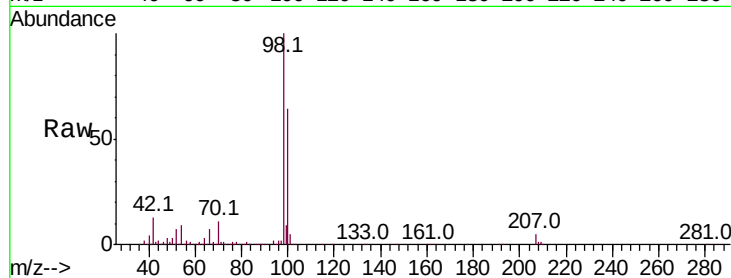
ClientSampleId :

Tot Ion: 98 Resp: 573051

Ion Ratio Lower Upper

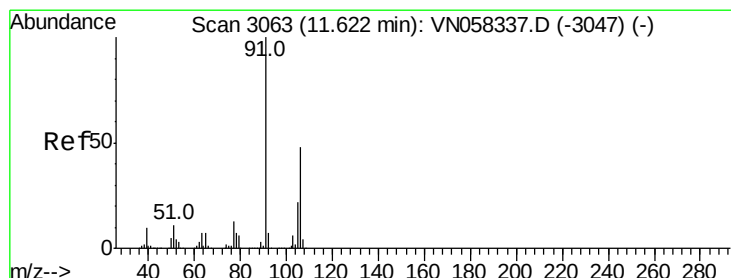
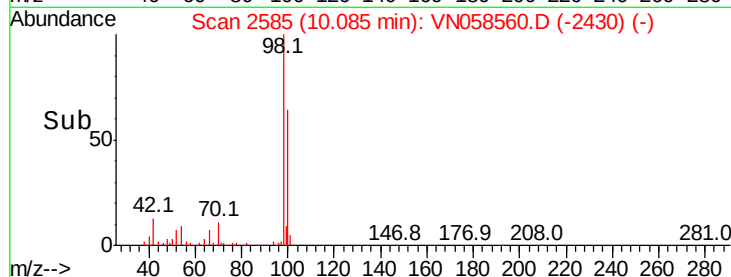
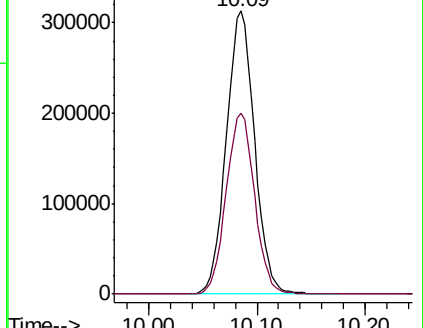
98 100

100 64.2 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN058337.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN058337.D (-2570) (-)



#67

m/p-Xylenes

Concen: 0.252 ug/l

RT: 11.63 min Scan# 3064

Delta R.T. 0.00 min

Lab File: VN058560.D

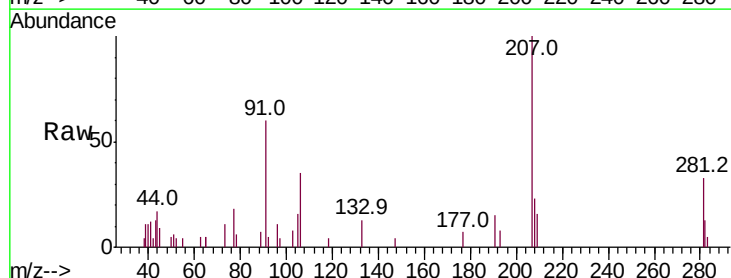
Acq: 7 Oct 2019 12:34

Tgt Ion: 106 Resp: 2329

Ion Ratio Lower Upper

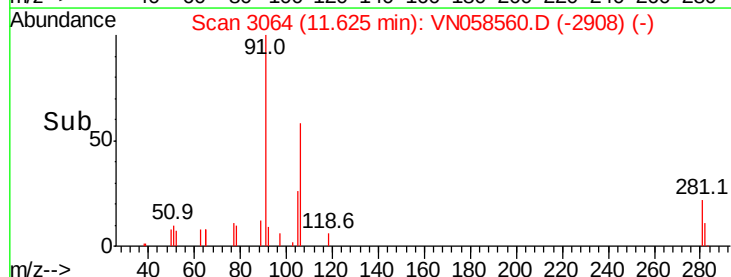
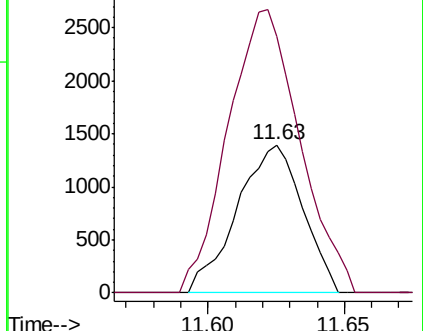
106 100

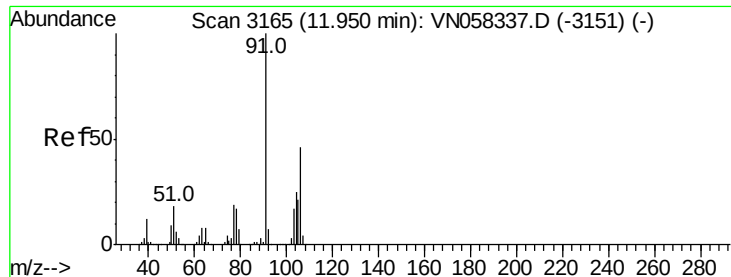
91 209.5 167.8 251.6



Abundance Ion 106.00 (105.70 to 106.70): VN058337.D (-3047) (-)

Ion 91.00 (90.70 to 91.70): VN058337.D (-3047) (-)

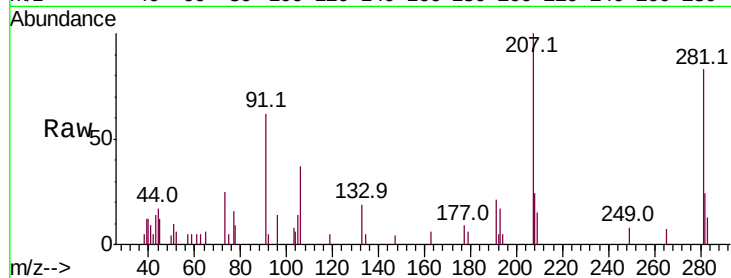




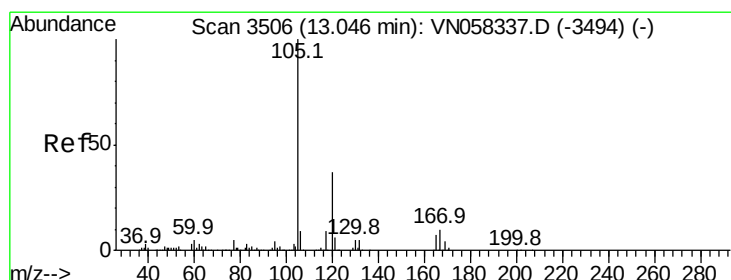
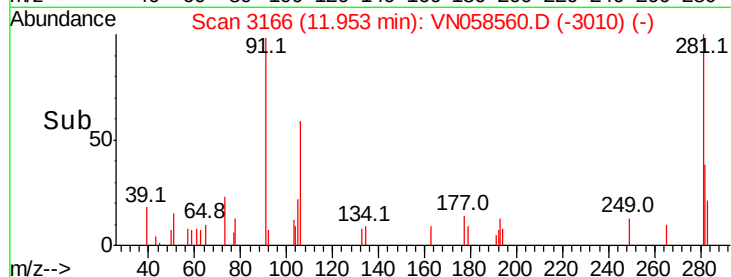
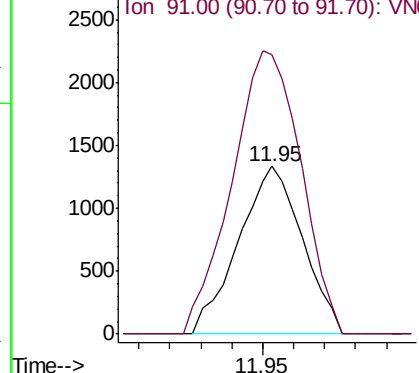
#68
o-Xylene
Concen: 0.213 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. 0.00 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 1914
Ion Ratio Lower Upper
106 100
91 182.4 108.7 325.9

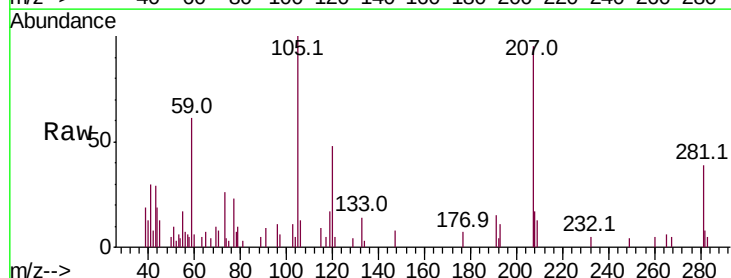


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

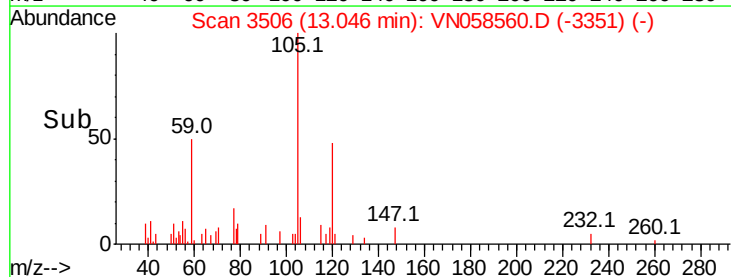
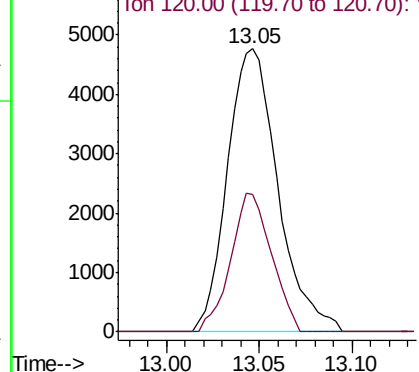


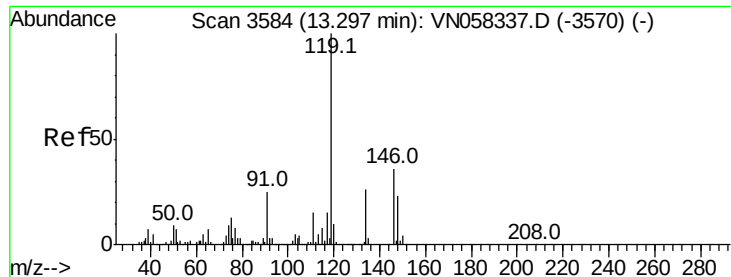
#80
1,2,4-Trimethylbenzene
Concen: 0.450 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. -0.00 min
Lab File: VN058560.D
Acq: 7 Oct 2019 12:34

Tgt Ion:105 Resp: 9007
Ion Ratio Lower Upper
105 100
120 39.4 0.0 86.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#82

p-Isopropyltoluene

Concen: 0.439 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. -0.00 min

Lab File: VN058560.D

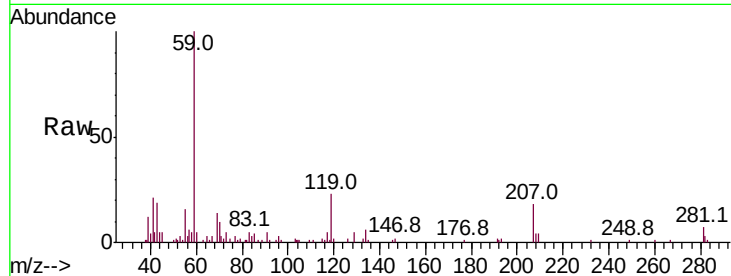
Acq: 7 Oct 2019 12:34

Instrument :

MSVOA_N

ClientSampled :

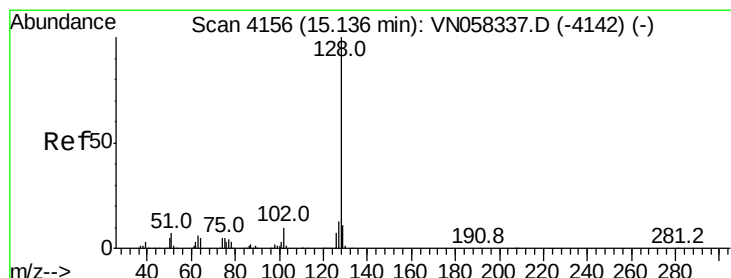
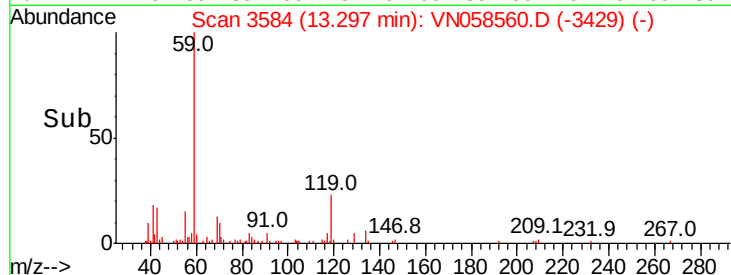
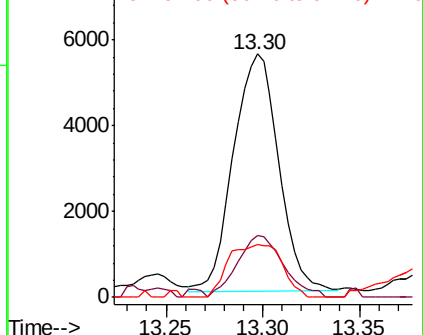
Tot Ion:	119	Resp:	9008
Ion	Ratio	Lower	Upper
119	100		
134	26.0	0.0	51.6
91	10.0	0.0	49.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#91

Naphthalene

Concen: 0.377 ug/l

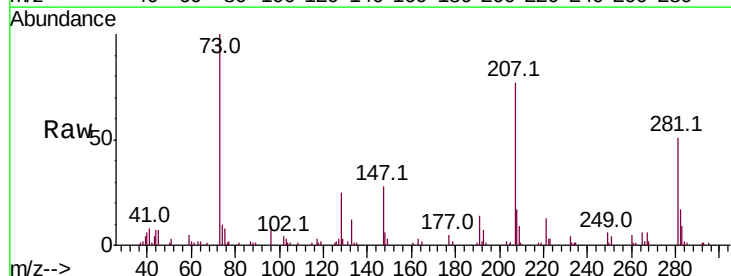
RT: 15.14 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN058560.D

Acq: 7 Oct 2019 12:34

Tgt Ion:	128	Resp:	6880
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	11.2	8.6	13.0



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

