

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082719\
 Data File : VN057543.D
 Acq On : 27 Aug 2019 9:53
 Operator : JC/SP
 Sample : VN0827WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0827WBL01

Quant Time: Sep 03 03:59:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	59219	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	347768	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	260903	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	183667	32.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.23%
60) 4-Bromofluorobenzene	12.41	95	87051	20.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	67.43%
63) Toluene-d8	10.08	98	430469	32.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.90%

Target Compounds

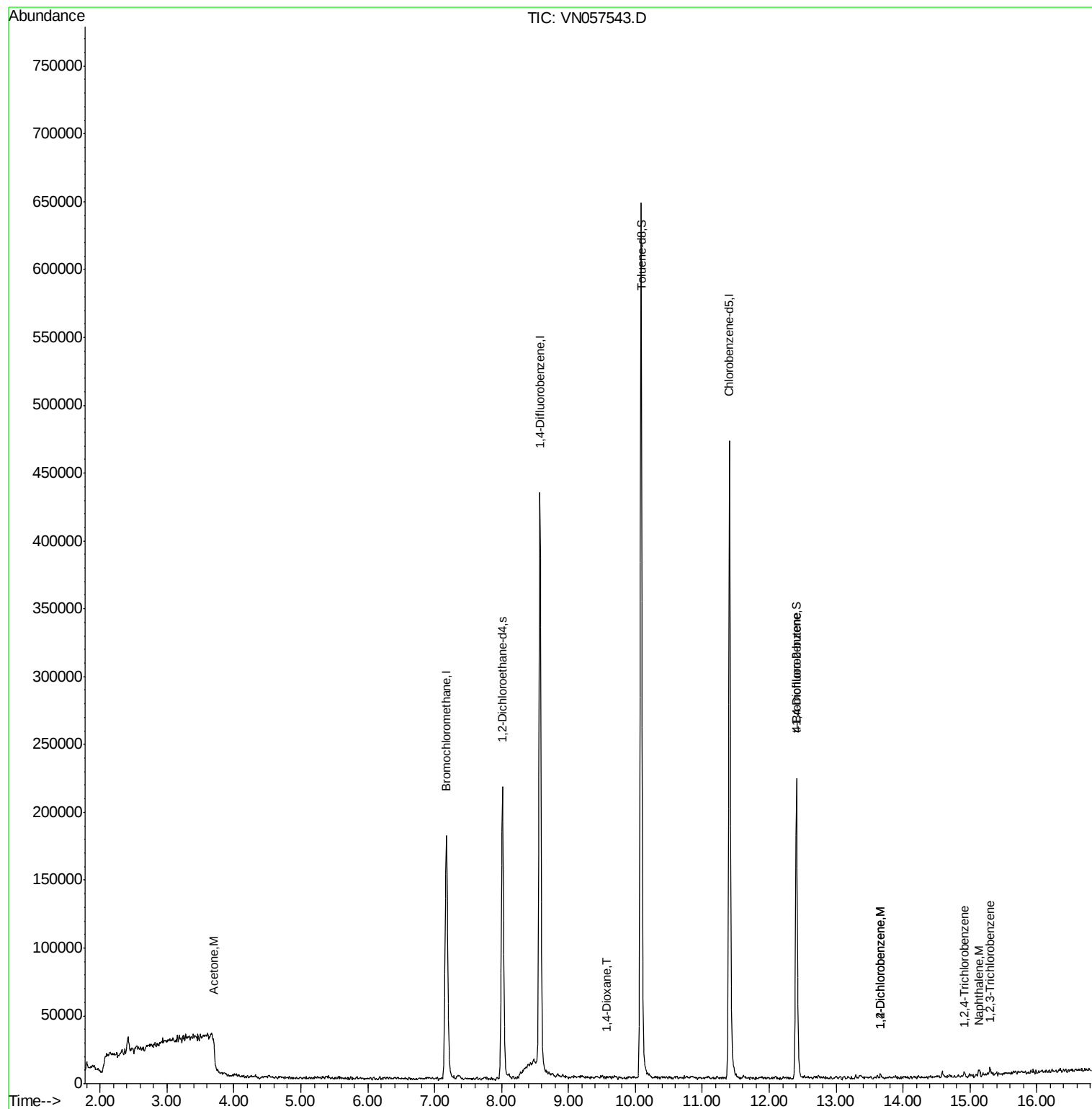
					Ovalue
15) Acetone	3.70	58	198	0.237 ug/l	95
45) 1,4-Dioxane	9.56	88	68	1.071 ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	47773	32.430 ug/l #	5
84) 1,4-Dichlorobenzene	13.66	146	971	0.202 ug/l	67
87) 1,2-Dichlorobenzene	13.66	146	971	0.201 ug/l	67
89) 1,2,4-Trichlorobenzene	14.92	180	679	0.374 ug/l #	69
91) Naphthalene	15.13	128	2375	9.998 ug/l #	91
92) 1,2,3-Trichlorobenzene	15.30	180	931	0.513 ug/l	81

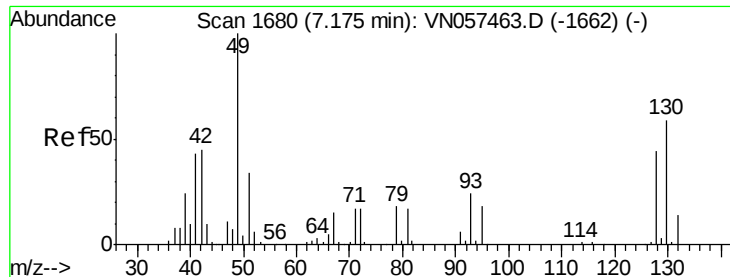
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082719\
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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0827WBL01

Quant Time: Sep 03 03:59:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 23 23:15:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN0827WBL01

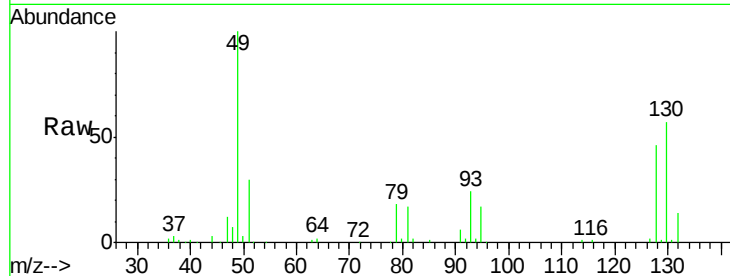
Tot Ion:128 Resp: 59219

Ion Ratio Lower Upper

128 100

49 221.2 0.0 560.5

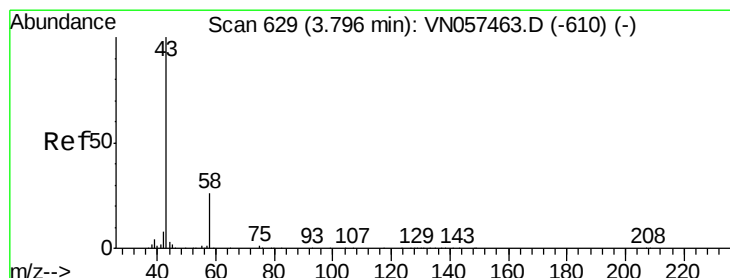
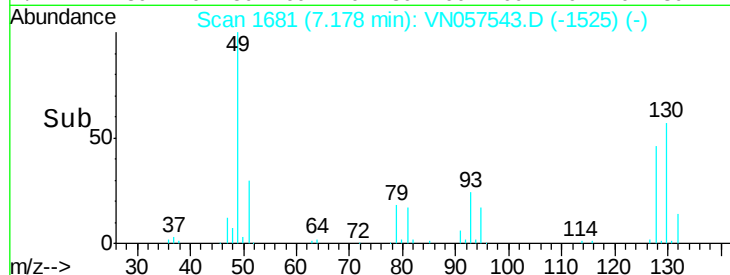
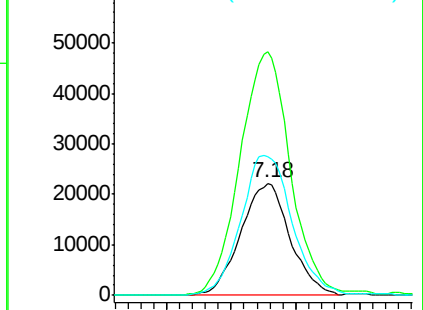
130 130.1 0.0 317.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 0.237 ug/l

RT: 3.70 min Scan# 600

Delta R.T. -0.09 min

Lab File: VN057543.D

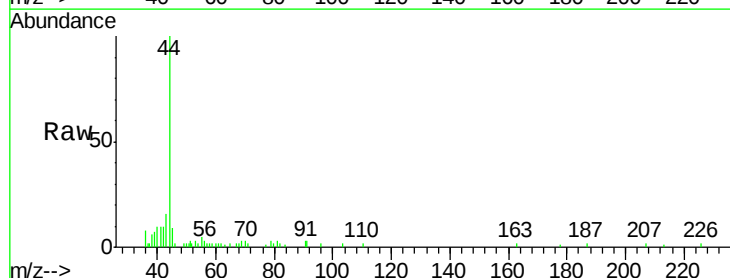
Acq: 27 Aug 2019 9:53

Tgt Ion: 58 Resp: 198

Ion Ratio Lower Upper

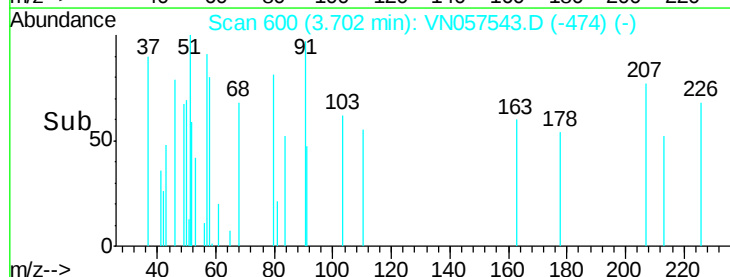
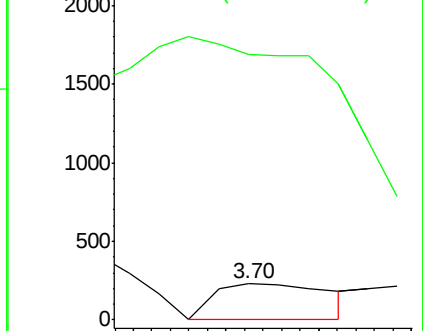
58 100

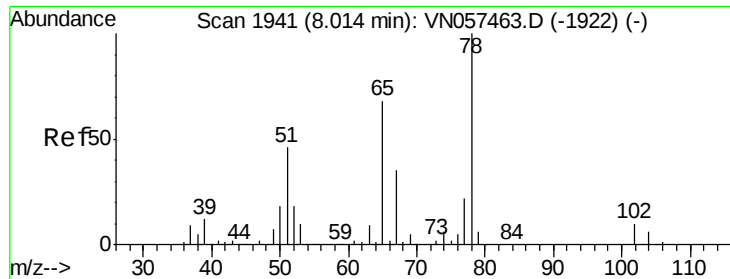
43 369.4 304.4 456.6



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 32.171 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

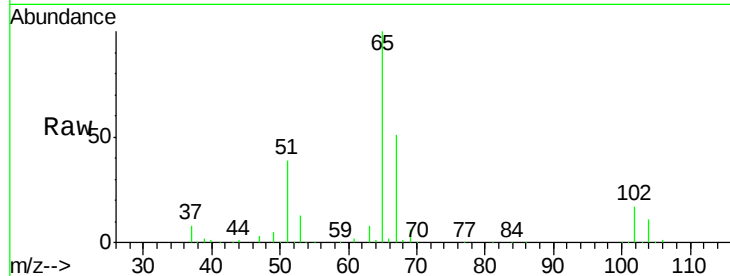
VN0827WBL01

Tot Ion: 65 Resp: 183667

Ion Ratio Lower Upper

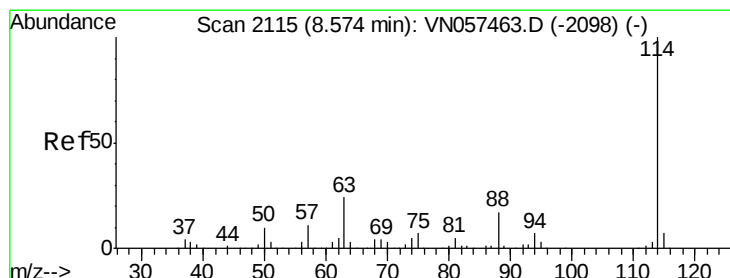
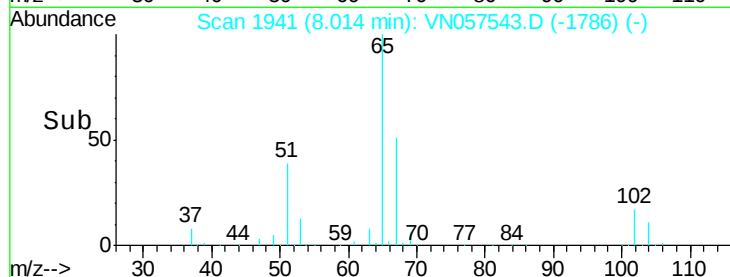
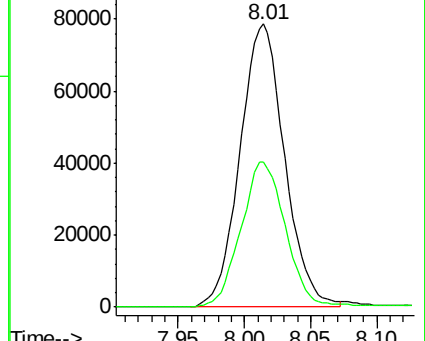
65 100

67 51.5 40.2 60.4



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

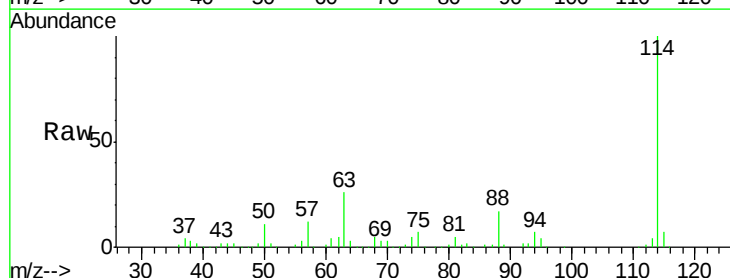
Tgt Ion: 114 Resp: 347768

Ion Ratio Lower Upper

114 100

63 25.0 19.6 29.4

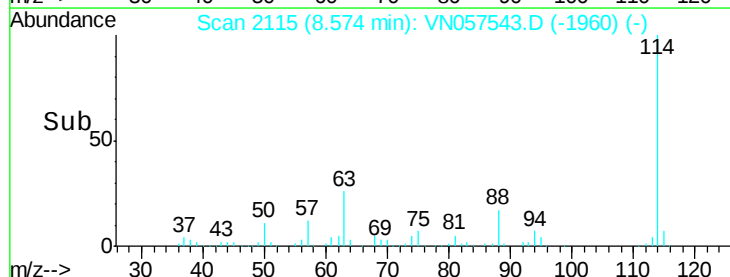
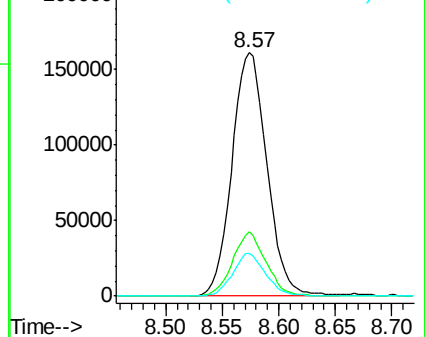
88 16.3 13.1 19.7

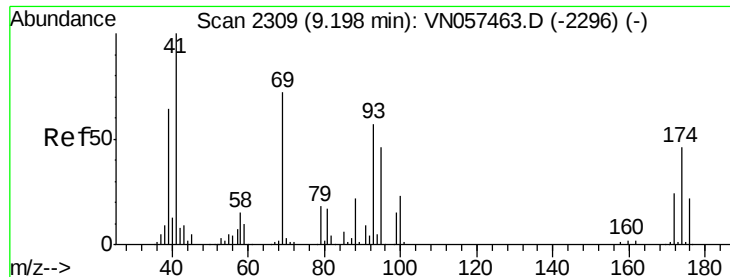


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

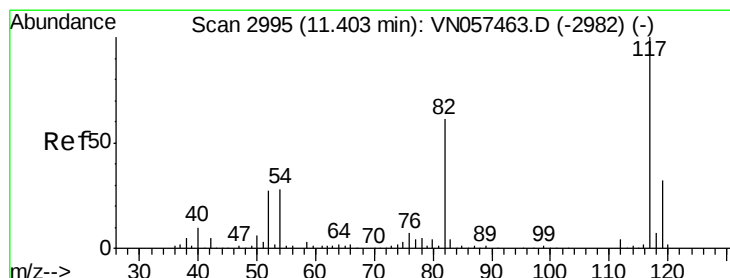
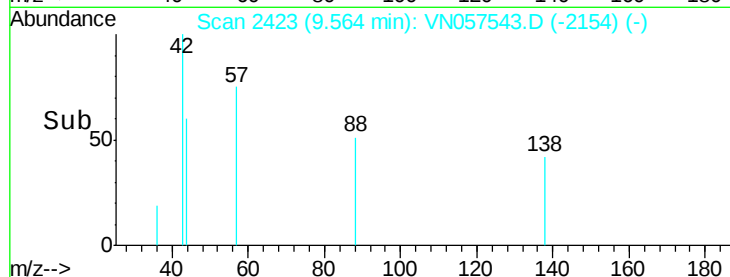
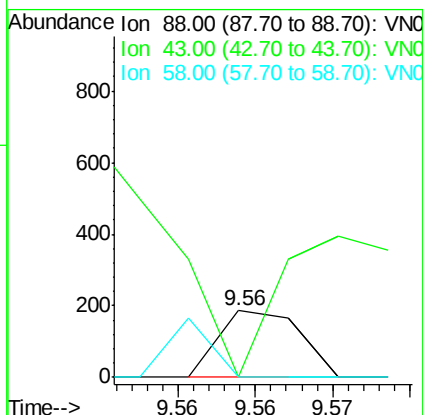
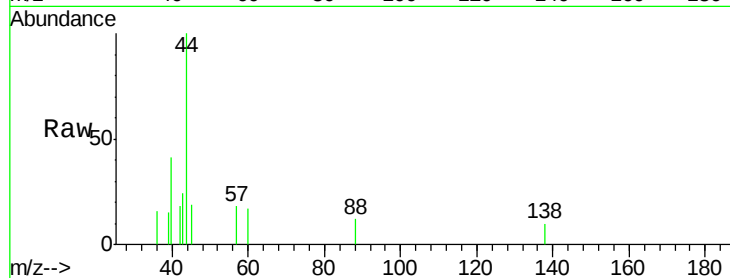




#45
 1,4-Dioxane
 Concen: 1.071 ug/l
 RT: 9.56 min Scan# 2423
 Delta R.T. 0.37 min
 Lab File: VN057543.D
 Acq: 27 Aug 2019 9:53

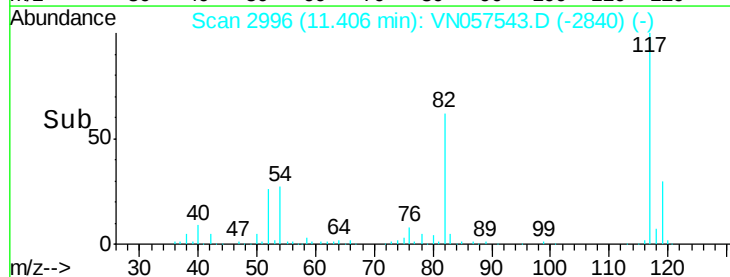
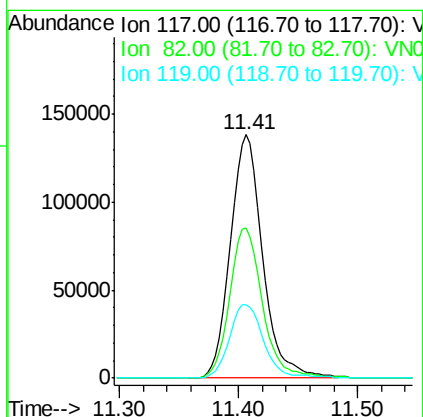
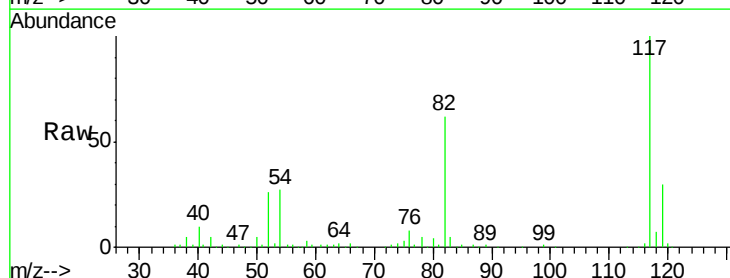
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0827WBL01

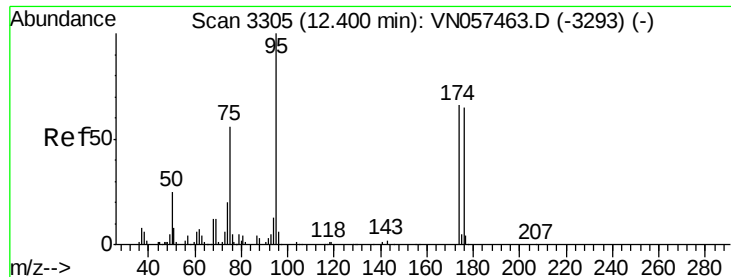
Tot Ion: 88 Resp: 68
 Ion Ratio Lower Upper
 88 100
 43 305.9 29.8 44.6#
 58 0.0 62.2 93.2#



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057543.D
 Acq: 27 Aug 2019 9:53

Tgt Ion: 117 Resp: 260903
 Ion Ratio Lower Upper
 117 100
 82 62.7 50.4 75.6
 119 32.1 25.4 38.2

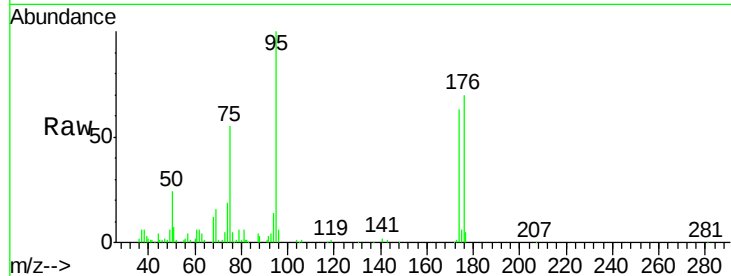




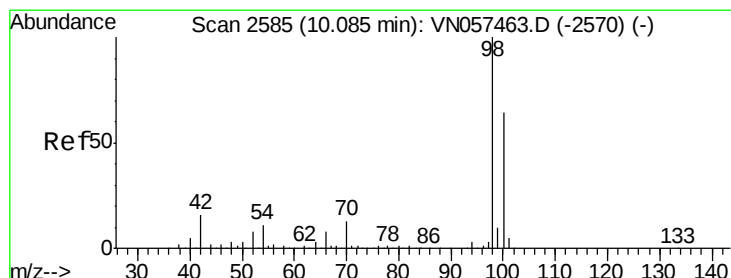
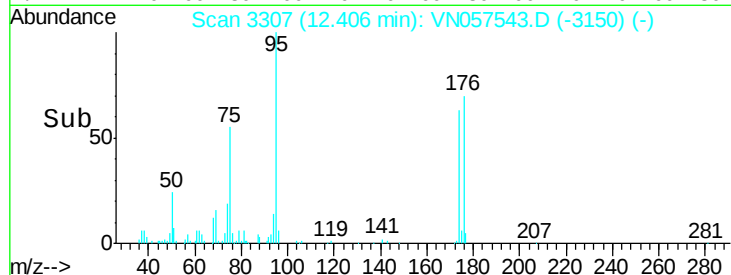
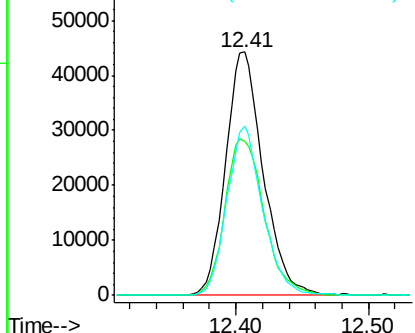
#60
4-Bromofluorobenzene
Concen: 20.233 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.01 min
Lab File: VN057543.D
Acq: 27 Aug 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN0827WBL01

Tot Ion	95	Resp	87051
Ion Ratio	100		
Lower			
Upper			
174	67.0	54.9	82.3
176	65.8	54.2	81.4

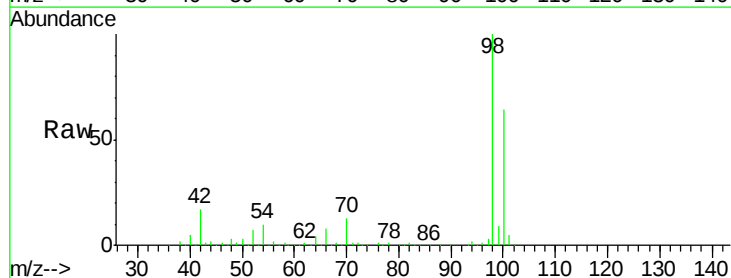


Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

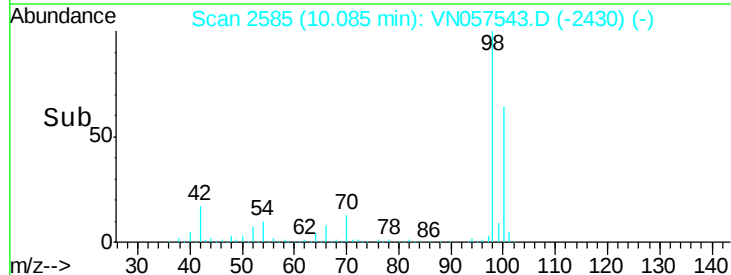
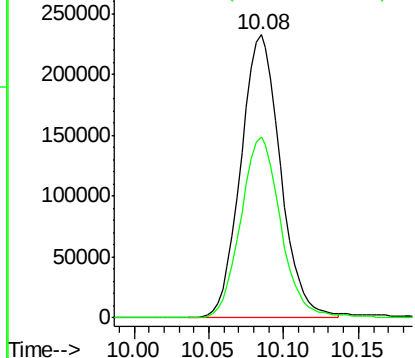


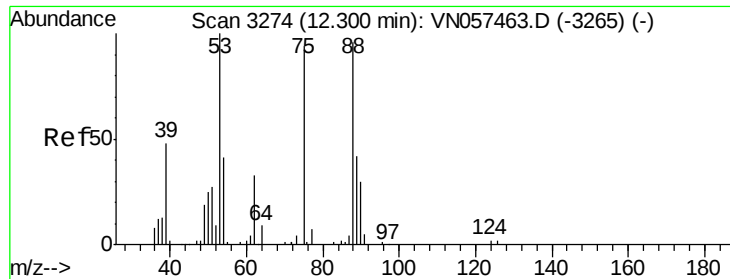
#63
Toluene-d8
Concen: 32.672 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057543.D
Acq: 27 Aug 2019 9:53

Tgt Ion	98	Resp	430469
Ion Ratio	100		
Lower			
Upper			
100	64.5	51.0	76.6



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





#77

t-1,4-Dichloro-2-butene

Concen: 32.430 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN0827WBL01

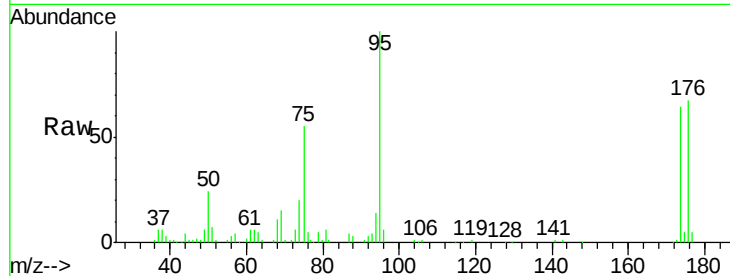
Tot Ion: 75 Resp: 47773

Ion Ratio Lower Upper

75 100

53 0.0 55.6 166.9#

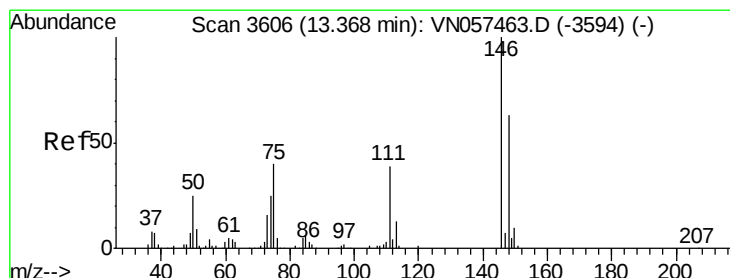
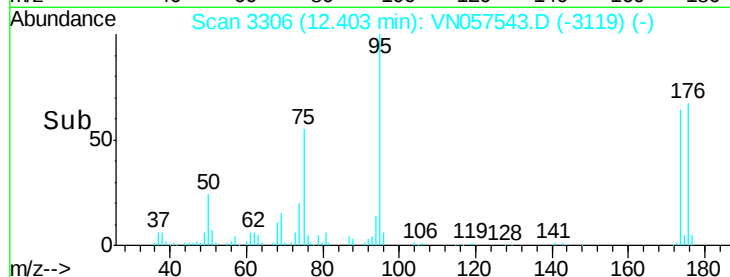
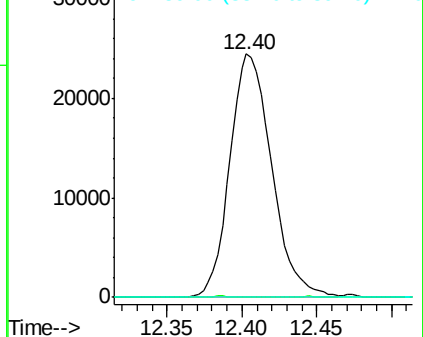
89 0.0 23.8 71.4#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#84

1,4-Dichlorobenzene

Concen: 0.202 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.30 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

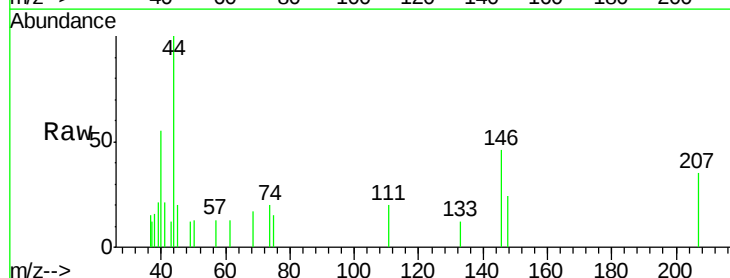
Tgt Ion: 146 Resp: 971

Ion Ratio Lower Upper

146 100

111 26.6 20.5 61.5

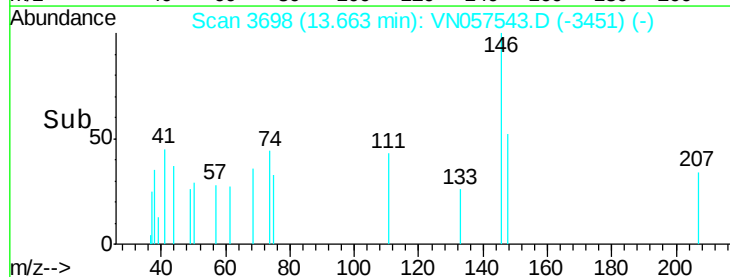
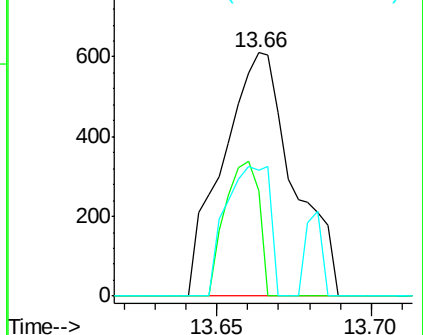
148 33.7 31.9 95.7

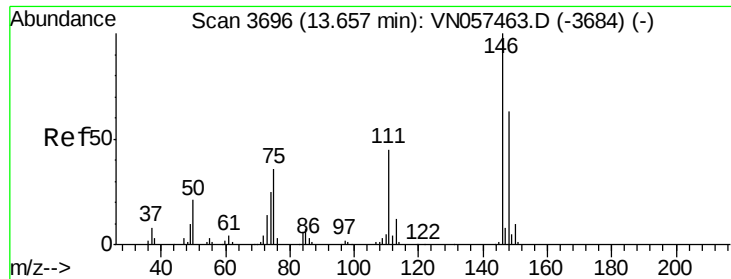


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#87

1,2-Dichlorobenzene

Concen: 0.201 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.01 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

Instrument :

MSVOA_N

ClientSampled :

VN0827WBL01

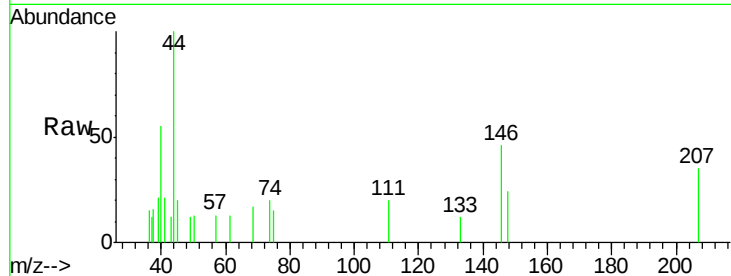
Tot Ion:146 Resp: 971

Ion Ratio Lower Upper

146 100

111 26.6 22.5 67.5

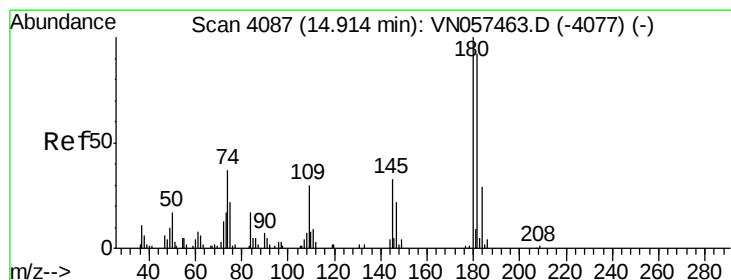
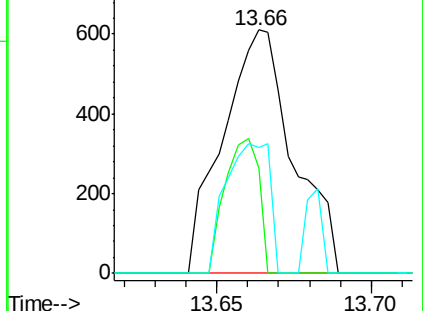
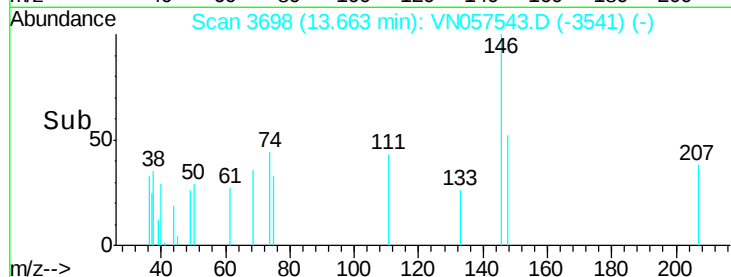
148 33.7 30.9 92.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

1,2,4-Trichlorobenzene

Concen: 0.374 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

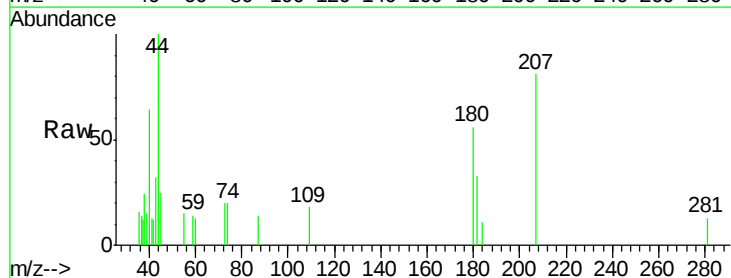
Tgt Ion:180 Resp: 679

Ion Ratio Lower Upper

180 100

182 67.2 75.4 113.2#

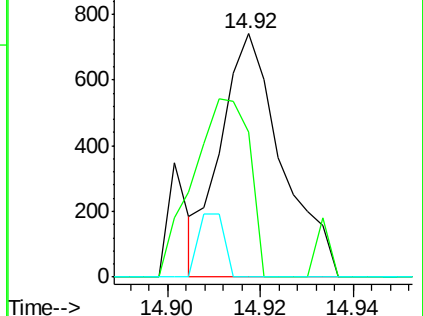
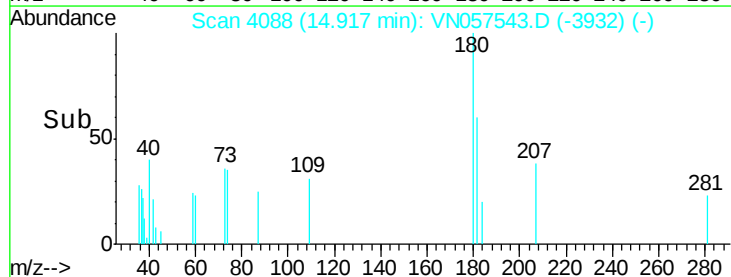
145 10.9 26.9 40.3#

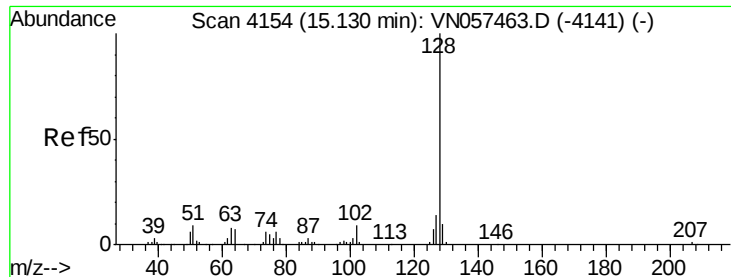


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 9.998 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN0827WBL01

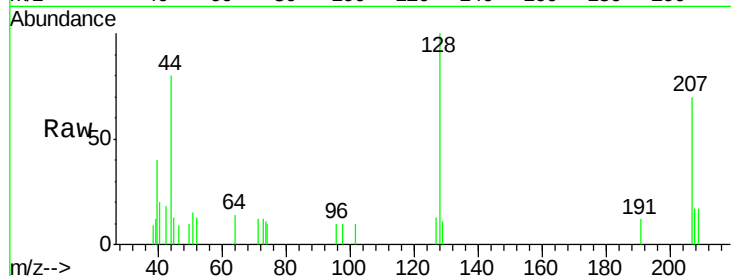
Tot Ion:128 Resp: 2375

Ion Ratio Lower Upper

128 100

127 11.8 10.1 15.1

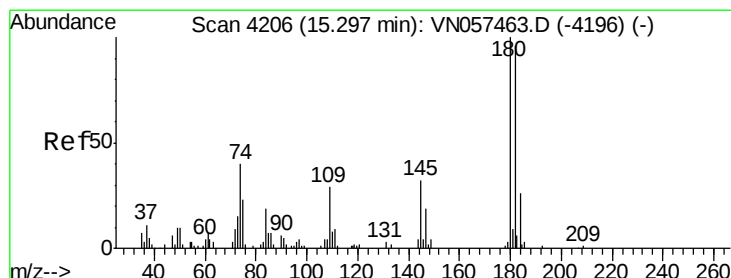
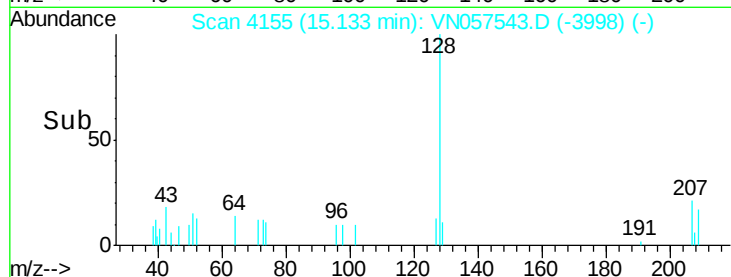
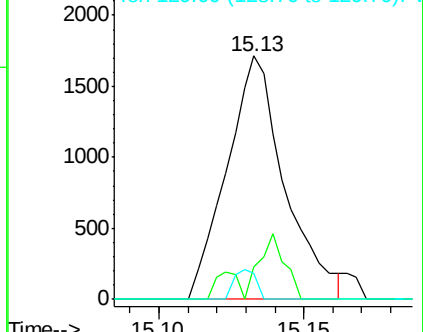
129 4.7 8.6 13.0#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.513 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN057543.D

Acq: 27 Aug 2019 9:53

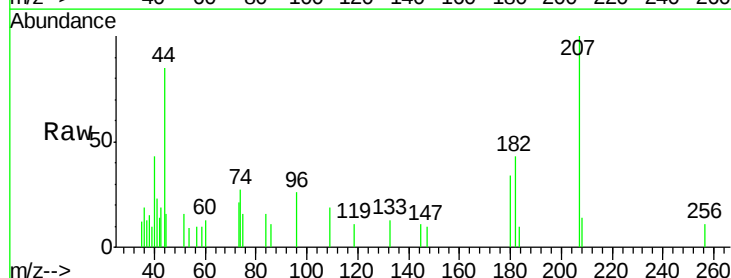
Tgt Ion:180 Resp: 931

Ion Ratio Lower Upper

180 100

182 102.8 0.0 187.0

145 7.2 0.0 64.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

