

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071219\
 Data File : VN056667.D
 Acq On : 11 Jul 2019 16:09
 Operator : JC/SP
 Sample : VN0712WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBL01

Quant Time: Jul 12 04:48:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	266973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	457004	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	463096	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	157708	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	157000	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	
35) Dibromofluoromethane	7.59	113	139223	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
50) Toluene-d8	10.09	98	578701	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
62) 4-Bromofluorobenzene	12.40	95	194972	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	

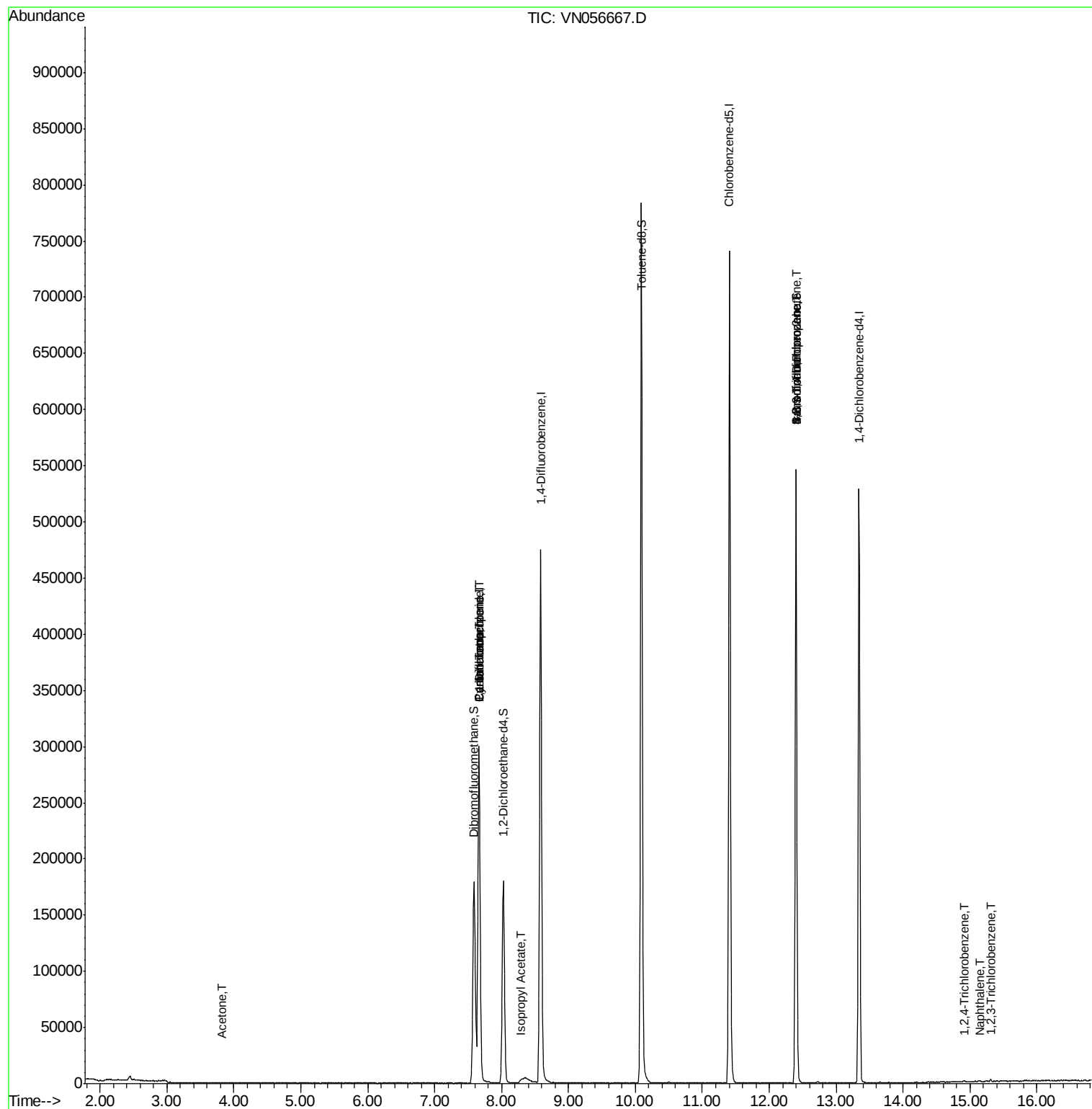
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	337	0.227	ug/l #	42
18) Methyl Acetate	4.33	43	1825	Below Cal	#	51
20) Methylene Chloride	4.55	84	325	Below Cal	#	37
31) Cyclohexane	7.66	56	4115	0.901	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17653	4.389	ug/l #	49
38) Carbon Tetrachloride	7.66	117	23663	6.727	ug/l #	14
43) Isopropyl Acetate	8.28	43	1254	0.206	ug/l #	54
71) Bromoform	12.40	173	1688	3.766	ug/l #	1
73) Isopropylbenzene	12.25	105	64	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	91892	28.101	ug/l #	100
79) 2-Chlorotoluene	12.68	91	29	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	12.40	75	91892	99.874	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.91	180	372	5.734	ug/l #	50
95) Naphthalene	15.13	128	1438	5.423	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.32	180	901	4.768	ug/l #	78

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

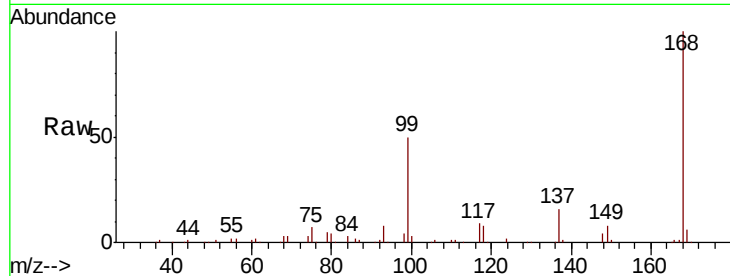
VN0712WBL01

Tot Ion:168 Resp: 266973

Ion Ratio Lower Upper

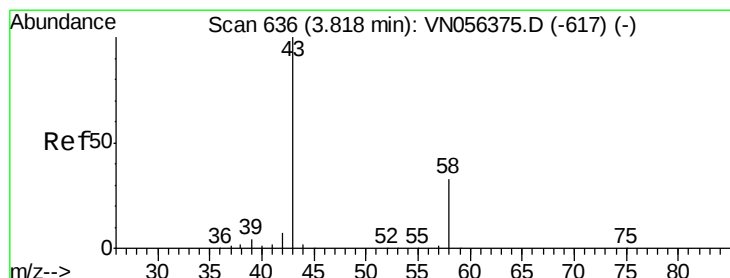
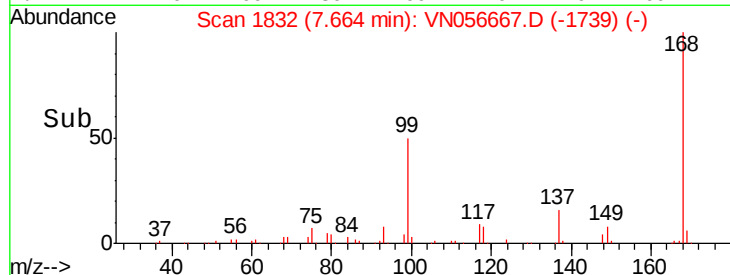
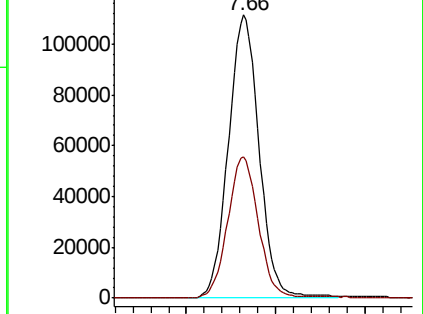
168 100

99 50.1 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 0.227 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056667.D

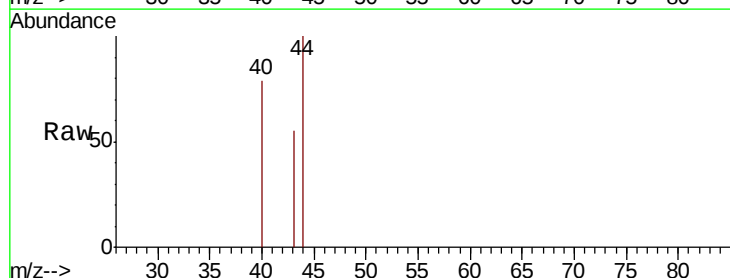
Acq: 11 Jul 2019 16:09

Tgt Ion: 43 Resp: 337

Ion Ratio Lower Upper

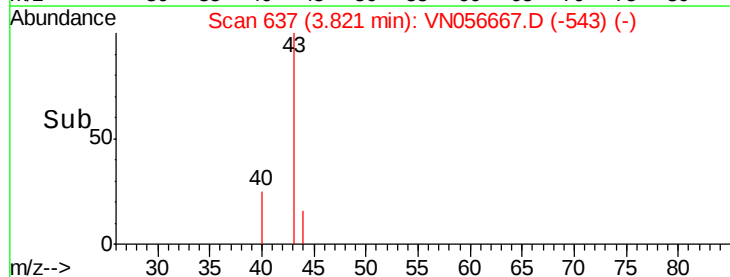
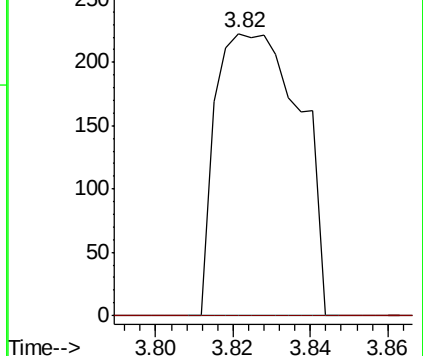
43 100

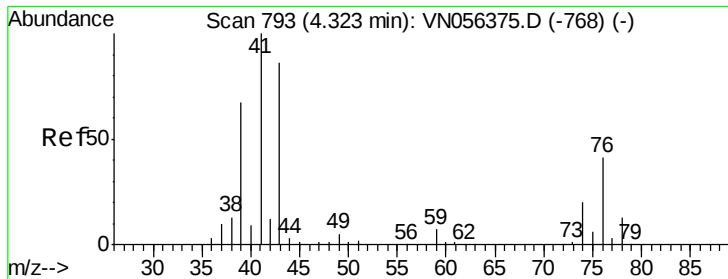
58 0.0 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

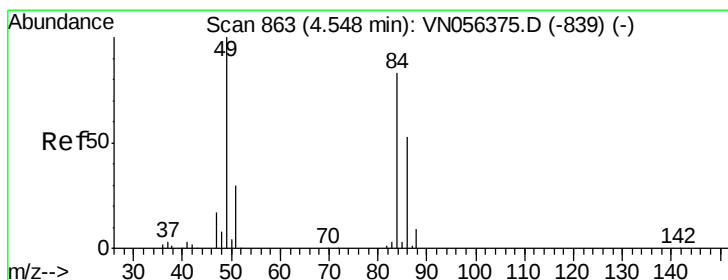
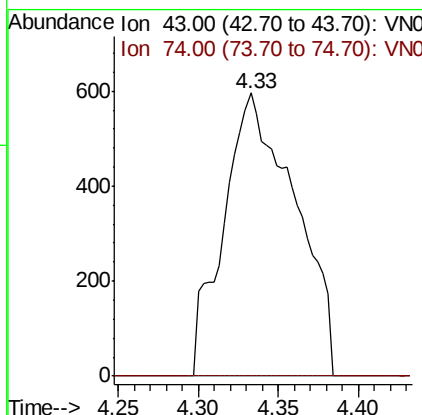
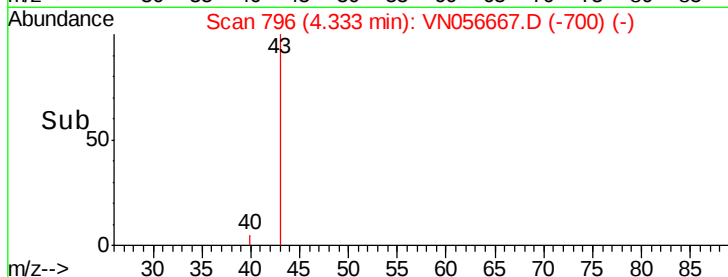
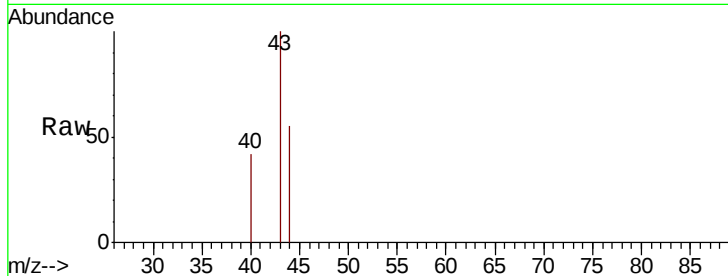




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056667.D
Acq: 11 Jul 2019 16:09

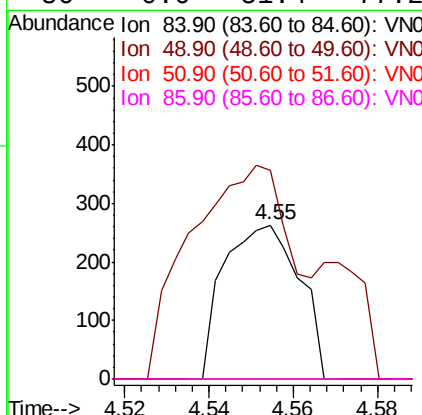
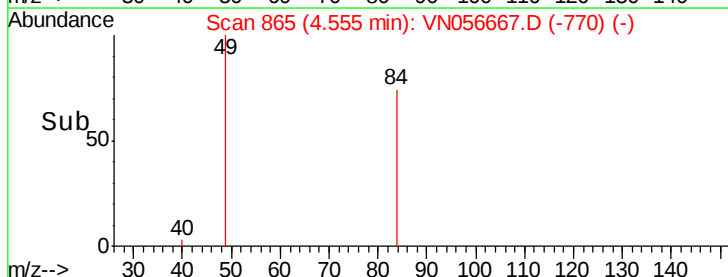
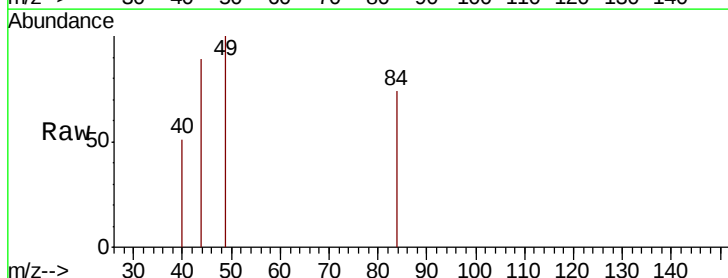
Instrument :
MSVOA_N
ClientSampled :
VN0712WBL01

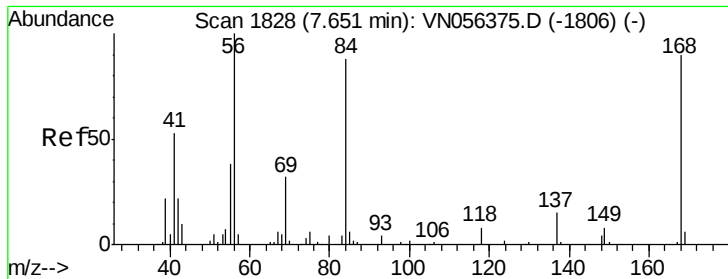
Tot Ion: 43 Resp: 1825
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056667.D
Acq: 11 Jul 2019 16:09

Tgt Ion: 84 Resp: 325
Ion Ratio Lower Upper
84 100
49 60.1 96.4 144.6#
51 0.0 28.6 43.0#
86 0.0 51.4 77.2#

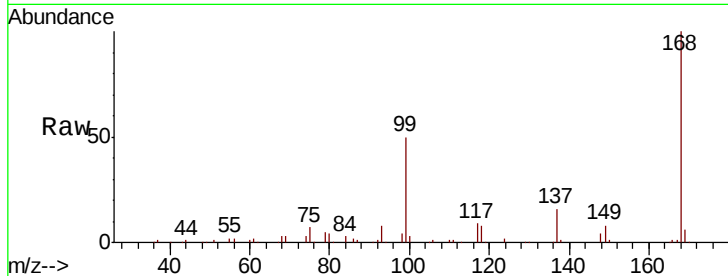




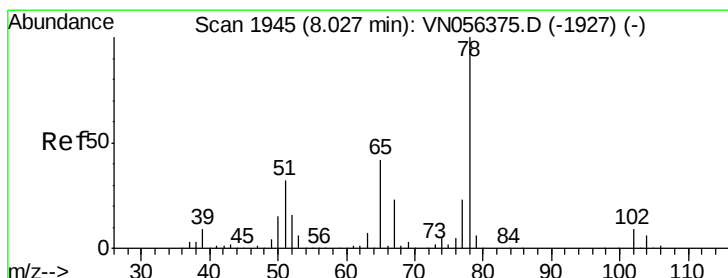
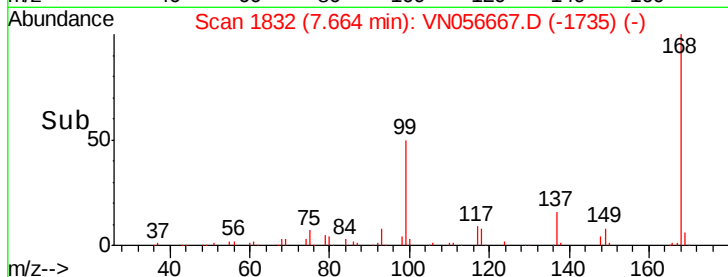
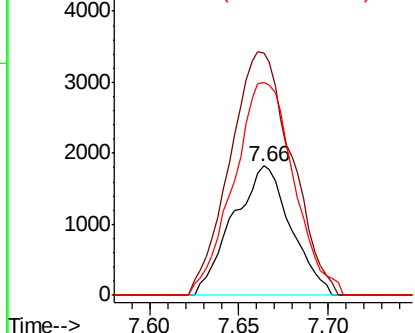
#31
Cyclohexane
Concen: 0.901 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056667.D
Acq: 11 Jul 2019 16:09

Instrument :
MSVOA_N
ClientSampled :
VN0712WBL01

Tot Ion: 56 Resp: 4115
Ion Ratio Lower Upper
56 100
69 188.0 25.8 38.6#
84 165.4 69.4 104.0#

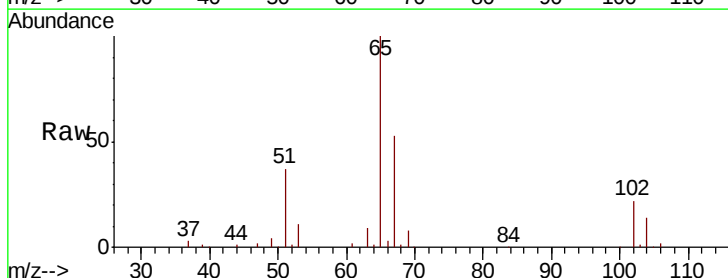


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

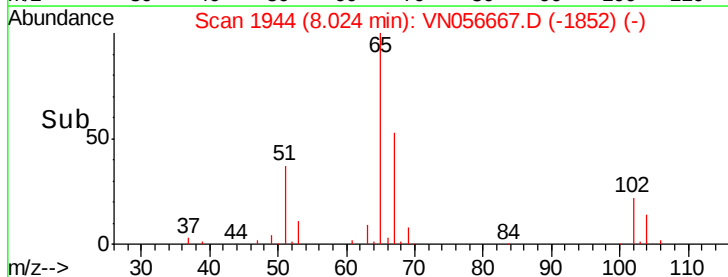
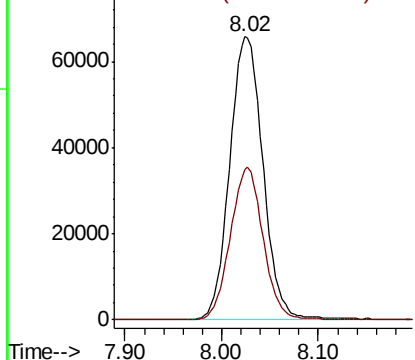


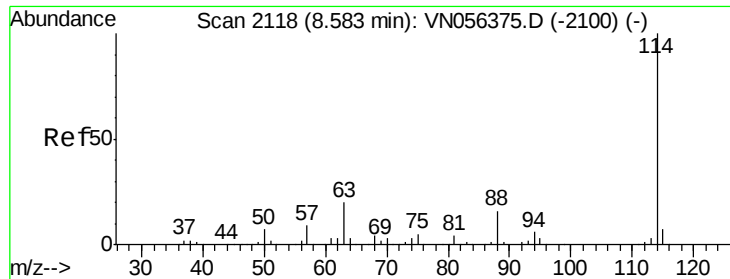
#33
1,2-Dichloroethane-d4
Concen: 53.061 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN056667.D
Acq: 11 Jul 2019 16:09

Tgt Ion: 65 Resp: 157000
Ion Ratio Lower Upper
65 100
67 53.2 0.0 109.0



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

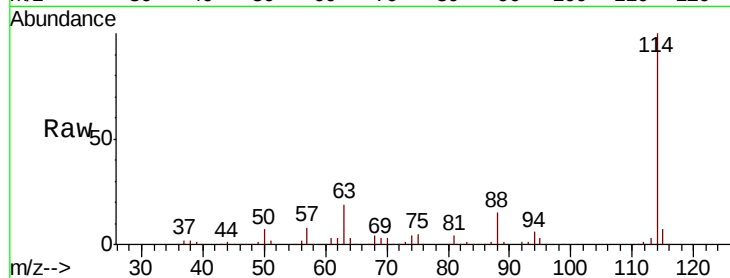




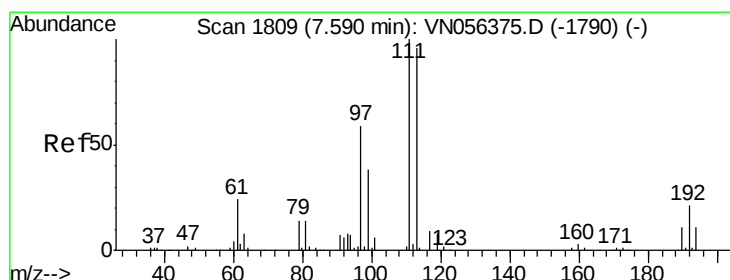
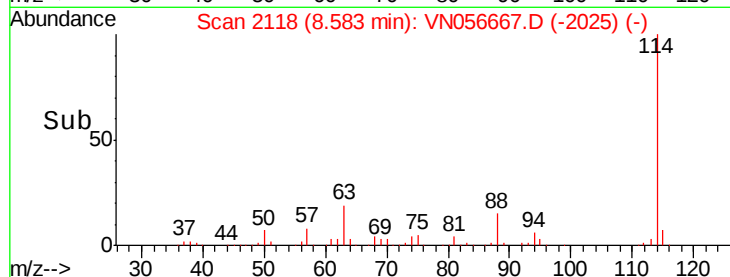
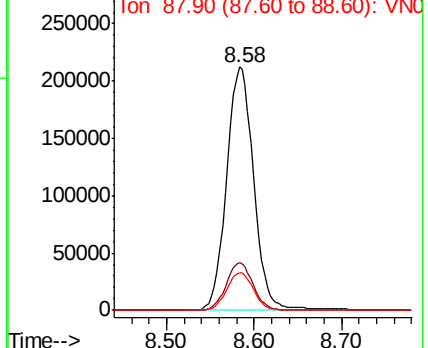
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056667.D
 Acq: 11 Jul 2019 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBL01

Tot Ion:114 Resp: 457004
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.2
 88 15.5 0.0 31.4

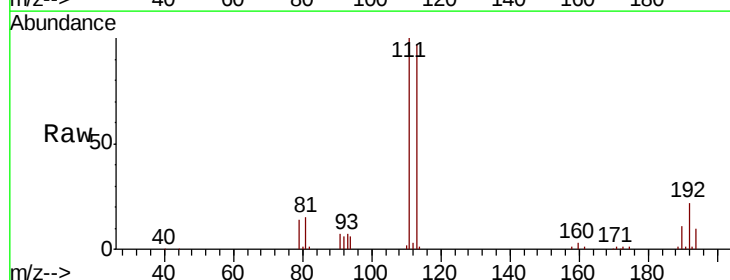


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

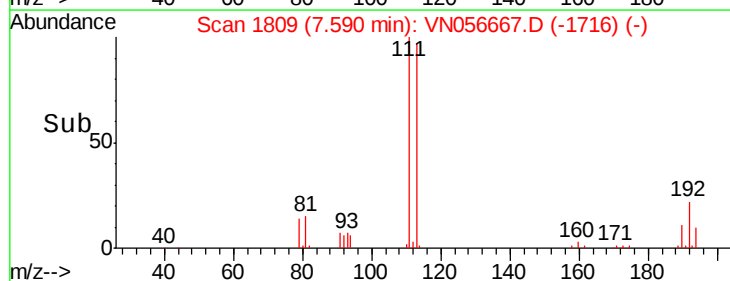
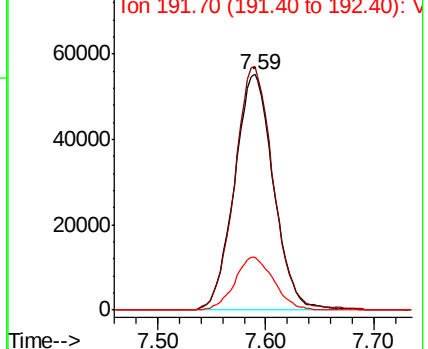


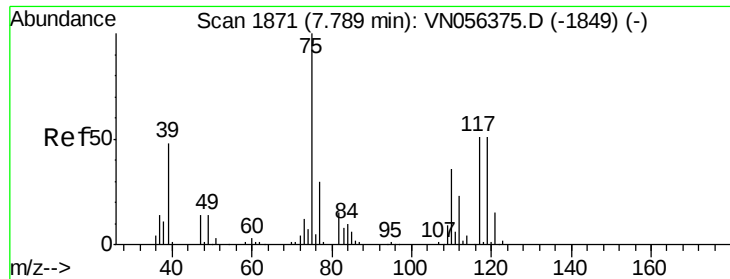
#35
 Dibromofluoromethane
 Concen: 48.834 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056667.D
 Acq: 11 Jul 2019 16:09

Tgt Ion:113 Resp: 139223
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.9 124.3
 192 22.4 17.7 26.5



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

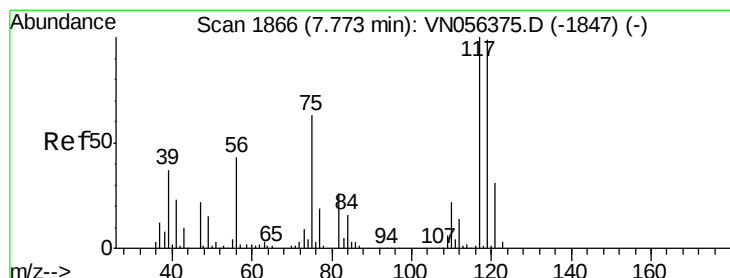
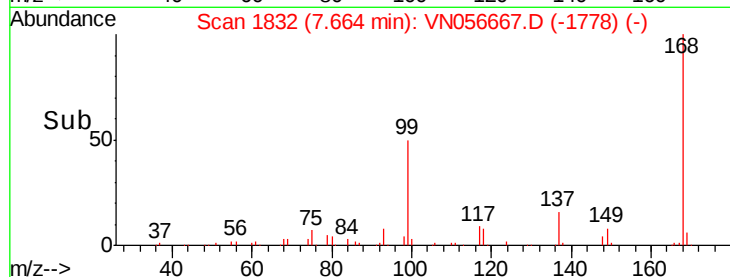
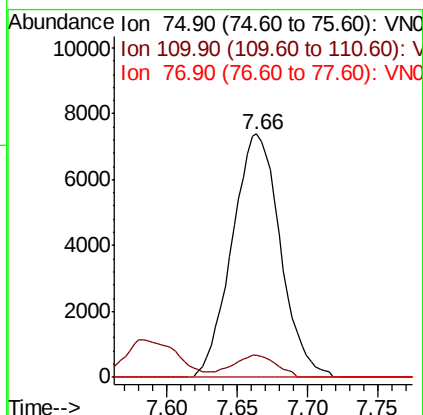
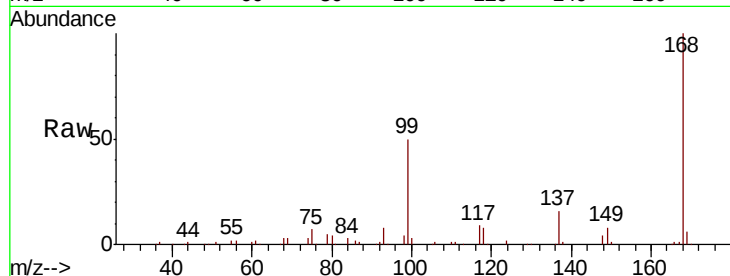




#36
 1,1-Dichloropropene
 Concen: 4.389 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056667.D
 Acq: 11 Jul 2019 16:09

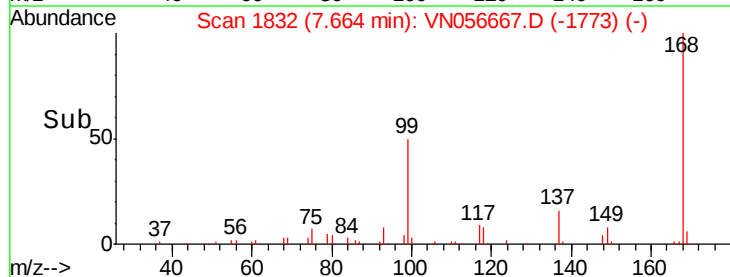
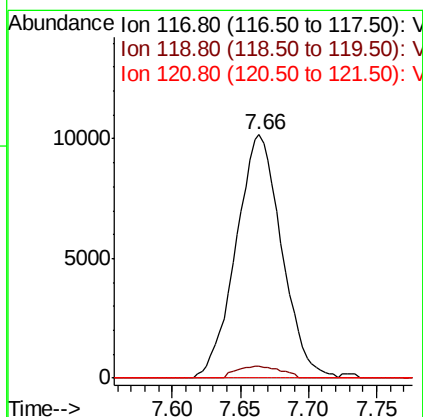
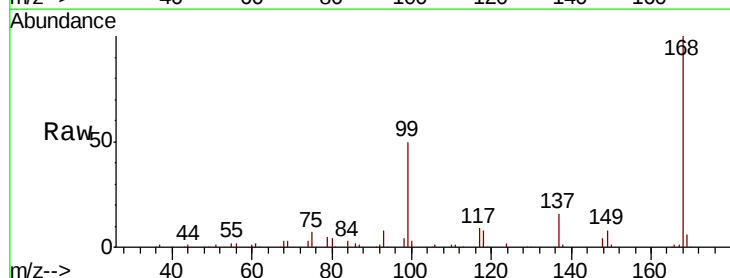
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBL01

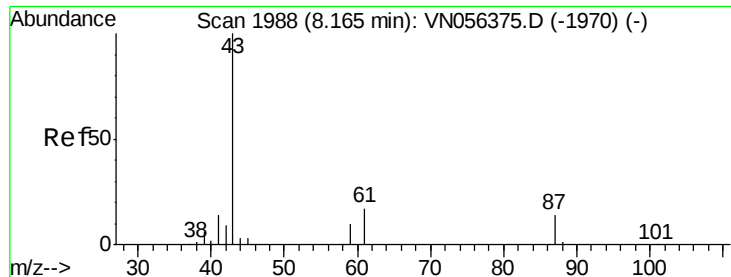
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.3#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.727 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056667.D
 Acq: 11 Jul 2019 16:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	79.1	118.7#
121	0.0	24.8	37.2#



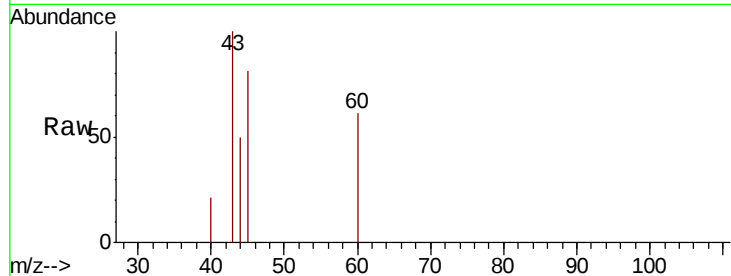


#43

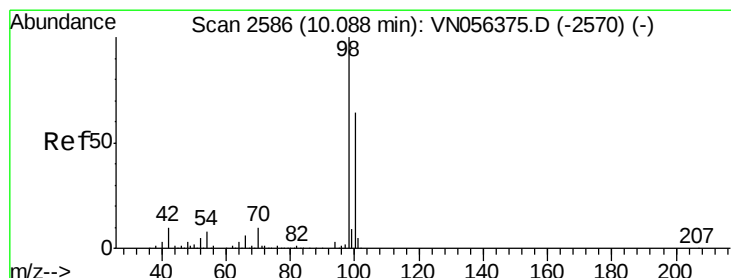
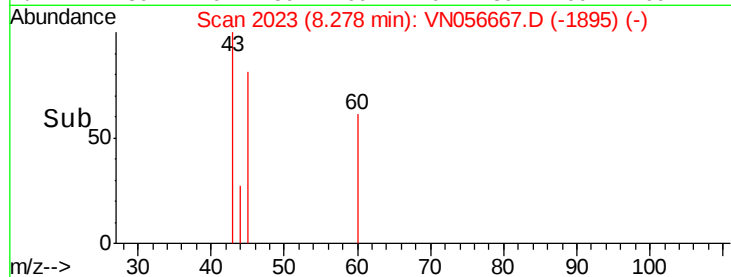
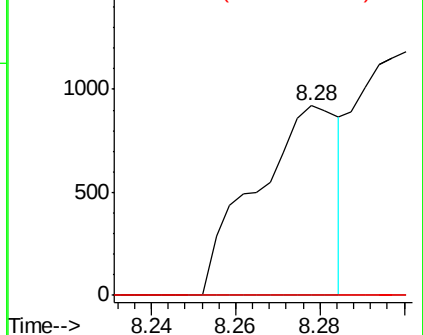
Isopropyl Acetate
 Concen: 0.206 ug/l
 RT: 8.28 min Scan# 2023
 Delta R.T. 0.11 min
 Lab File: VN056667.D
 Acq: 11 Jul 2019 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBL01

Tot Ion	43	Resp	1254
Ion Ratio	Lower	Upper	
43	100		
61	0.0	22.0	33.0#
87	0.0	11.0	16.4#



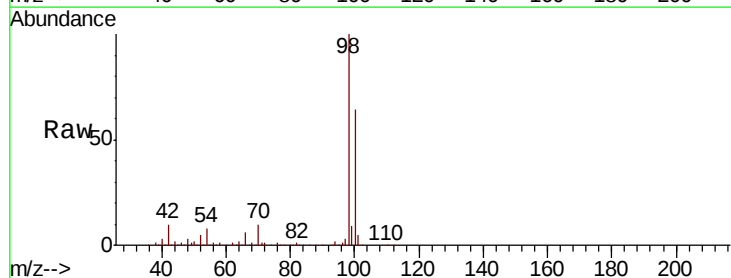
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



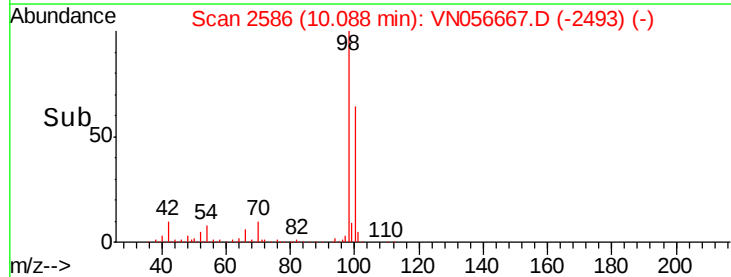
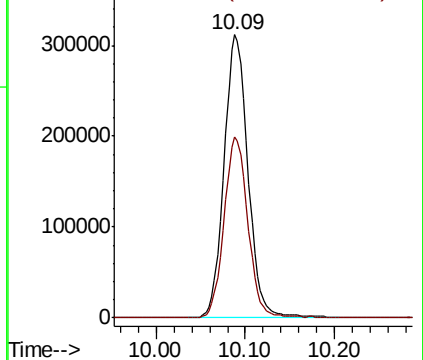
#50

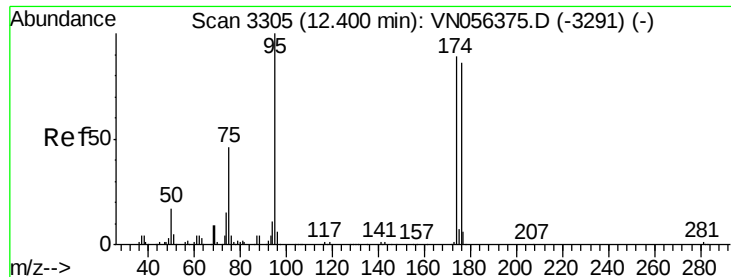
Toluene-d8
 Concen: 52.167 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.00 min
 Lab File: VN056667.D
 Acq: 11 Jul 2019 16:09

Tgt Ion	98	Resp	578701
Ion Ratio	Lower	Upper	
98	100		
100	63.8	52.2	78.2



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





#62

4-Bromofluorobenzene

Concen: 52.723 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBL01

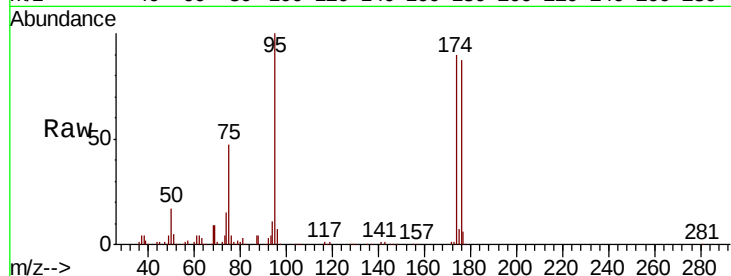
Tot Ion: 95 Resp: 194972

Ion Ratio Lower Upper

95 100

174 89.8 0.0 179.4

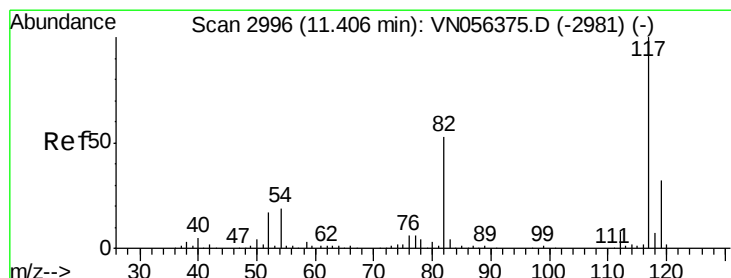
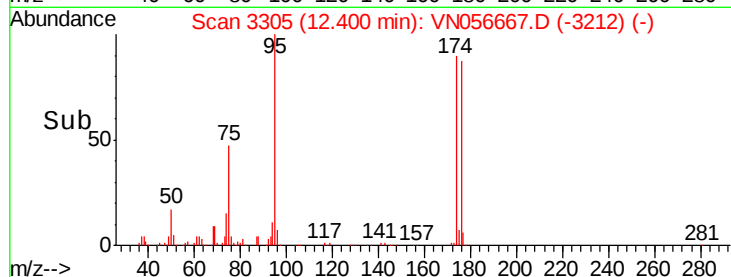
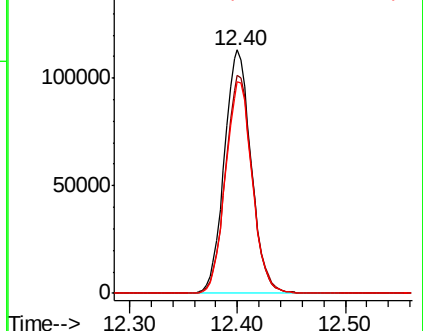
176 87.2 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN056667.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN056667.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN056667.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

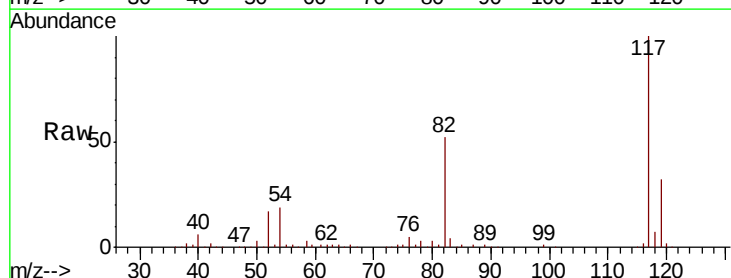
Tgt Ion: 117 Resp: 463096

Ion Ratio Lower Upper

117 100

82 52.4 42.0 63.0

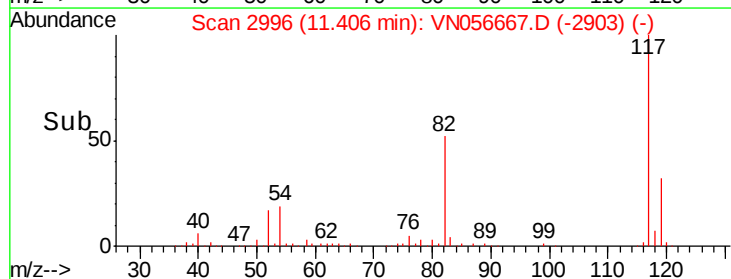
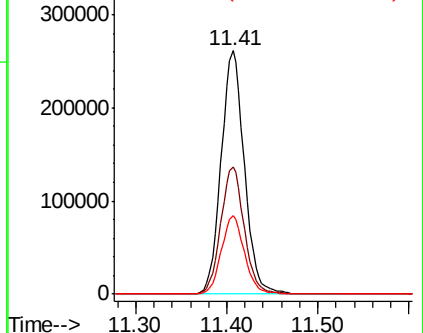
119 32.1 25.3 37.9

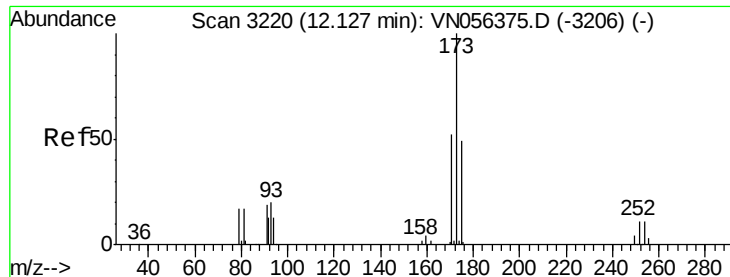


Abundance Ion 116.90 (116.60 to 117.60): VN056667.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN056667.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN056667.D (-2903) (-)





#71

Bromoform

Concen: 3.766 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampled :

VN0712WBL01

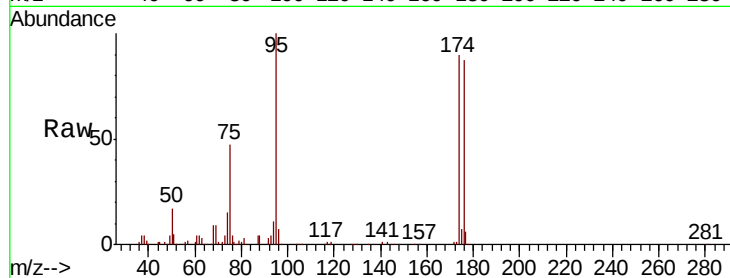
Tot Ion:173 Resp: 1688

Ion Ratio Lower Upper

173 100

175 686.6 24.4 73.4#

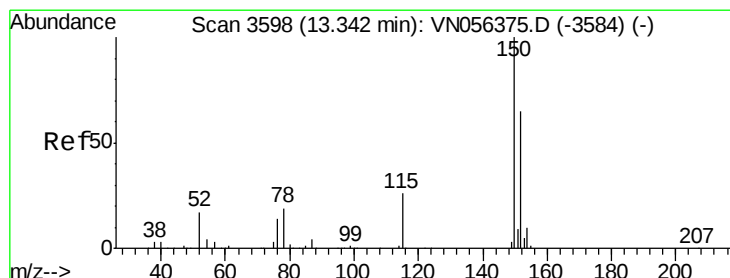
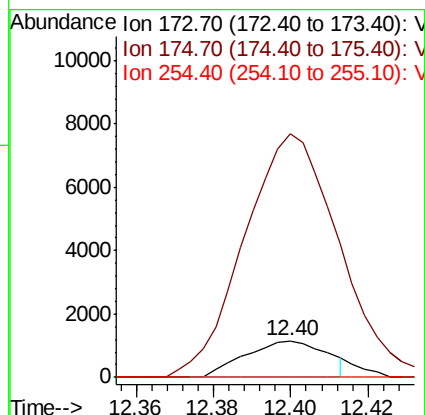
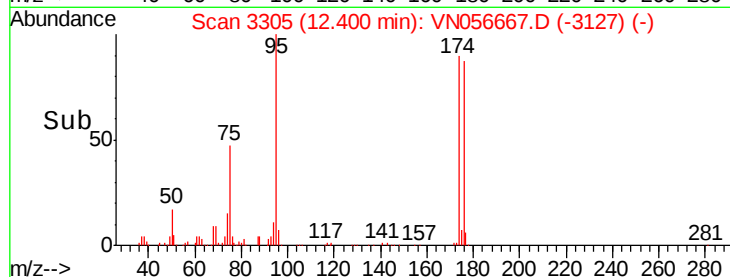
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

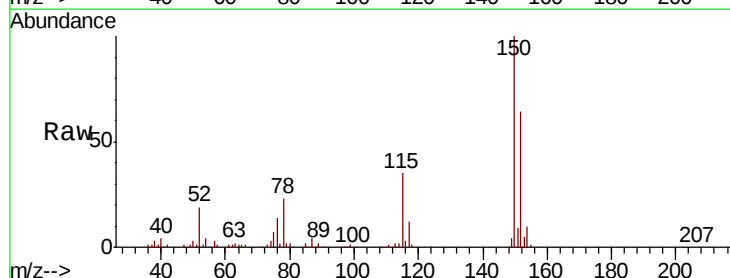
Tgt Ion:152 Resp: 157708

Ion Ratio Lower Upper

152 100

115 55.3 28.1 84.4

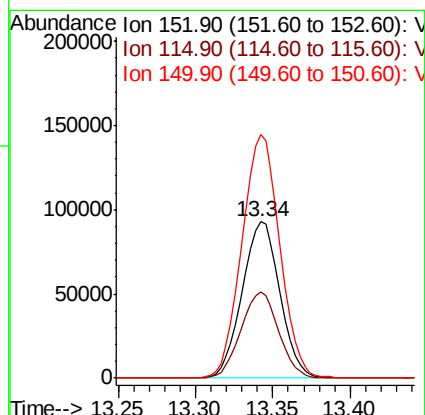
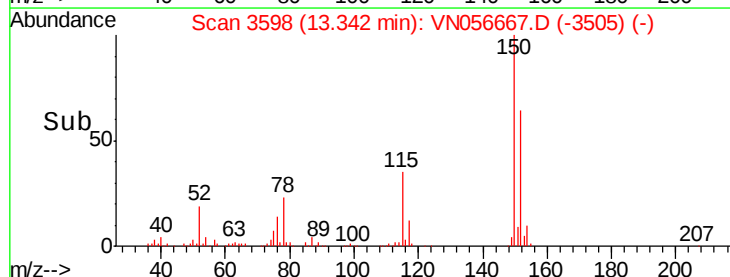
150 156.3 0.0 348.4

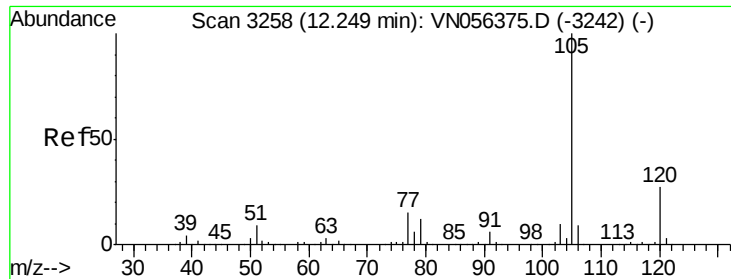


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

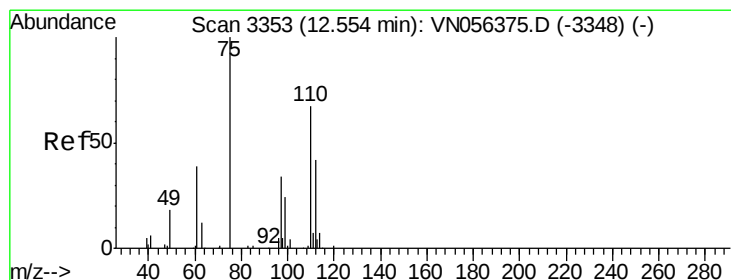
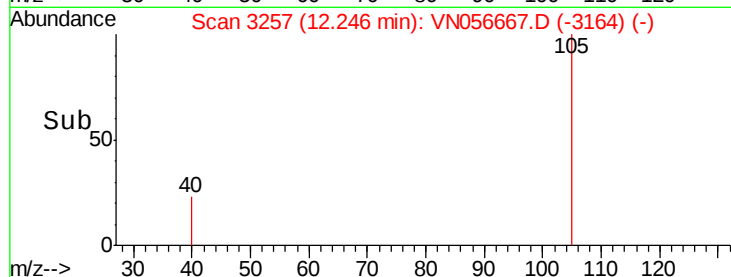
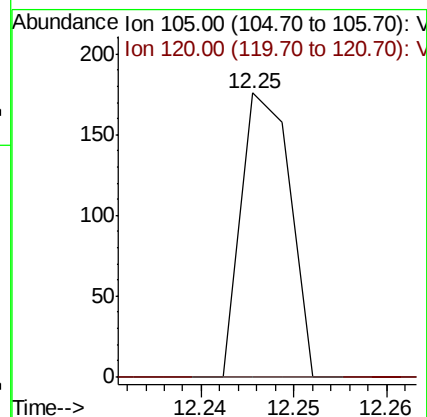
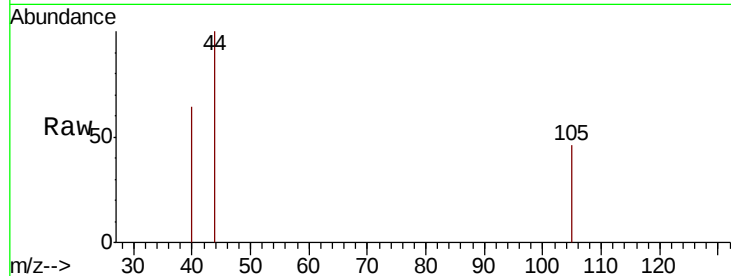
VN0712WBL01

Tot Ion: 105 Resp: 64

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 28.101 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056667.D

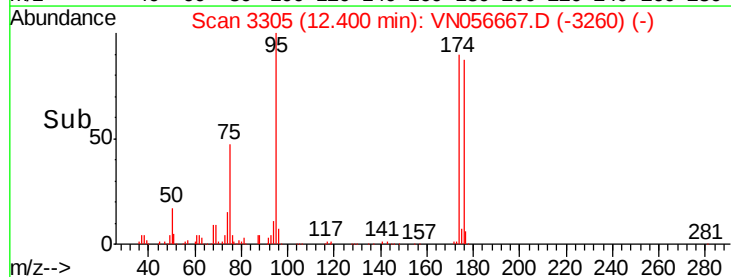
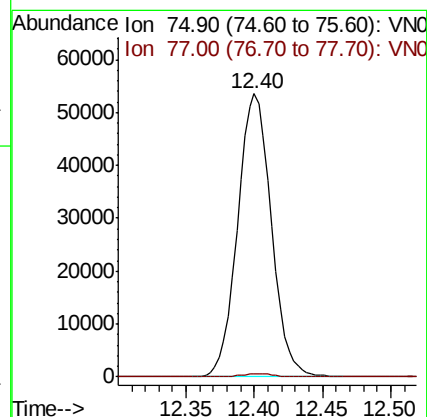
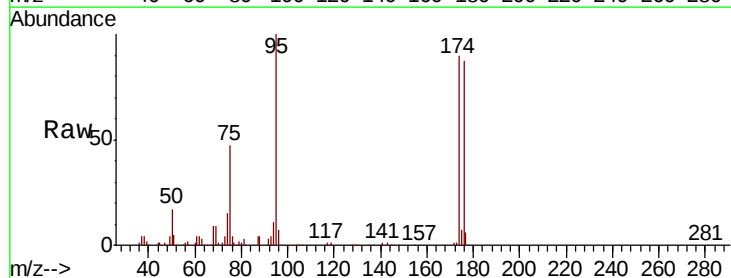
Acq: 11 Jul 2019 16:09

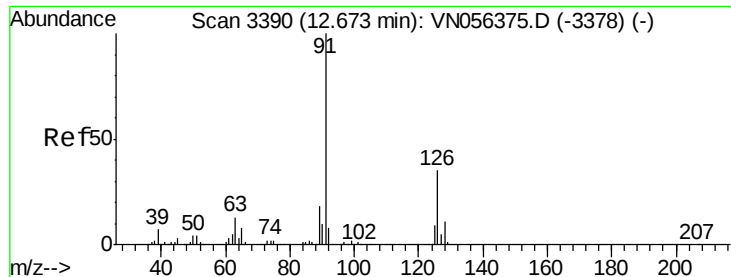
Tgt Ion: 75 Resp: 91892

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

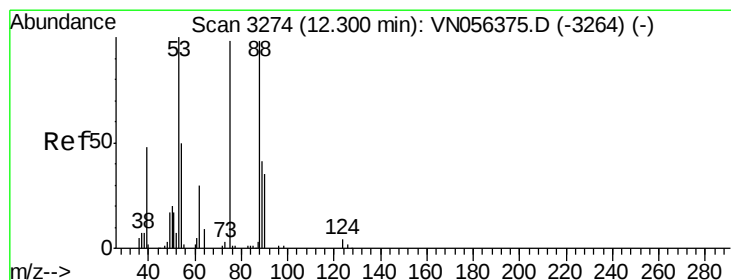
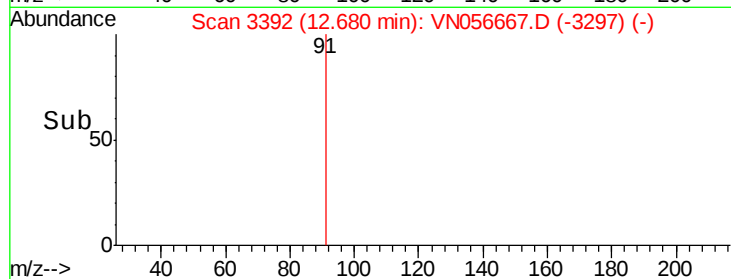
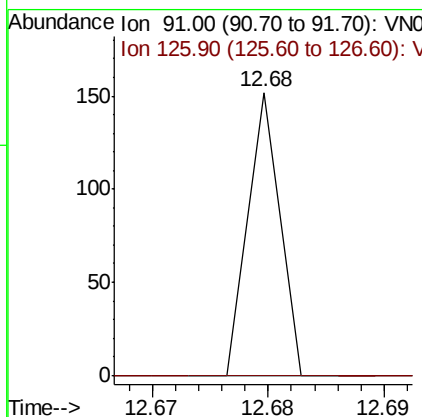
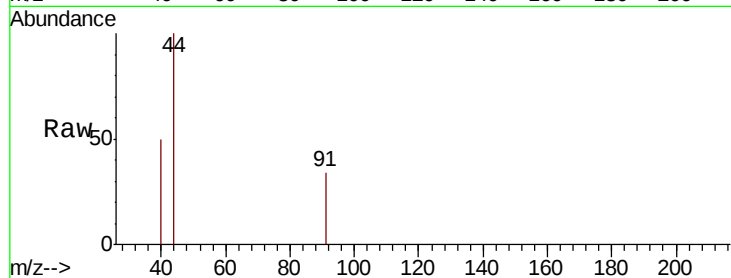




#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.68 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VN056667.D
Acq: 11 Jul 2019 16:09

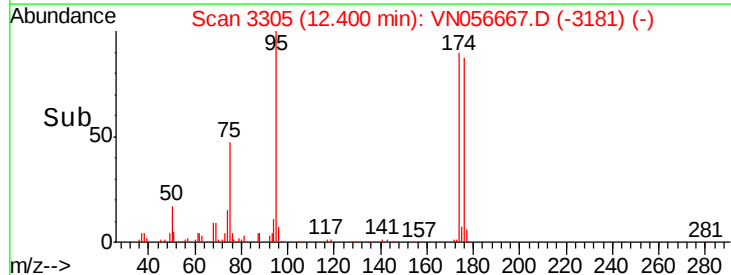
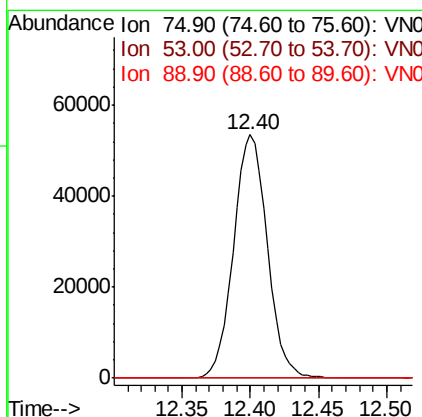
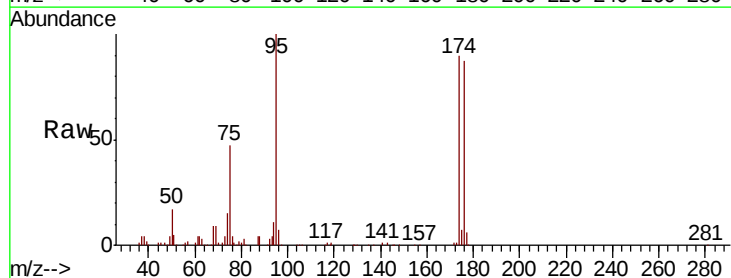
Instrument :
MSVOA_N
ClientSampleId :
VN0712WBL01

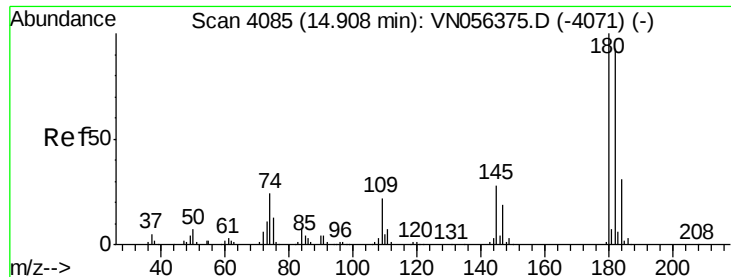
Tot Ion: 91 Resp: 29
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 99.874 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056667.D
Acq: 11 Jul 2019 16:09

Tgt Ion: 75 Resp: 91892
Ion Ratio Lower Upper
75 100
53 0.0 83.9 125.9#
89 0.0 35.0 52.6#





#93

1,2,4-Trichlorobenzene

Concen: 5.734 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampled :

VN0712WBL01

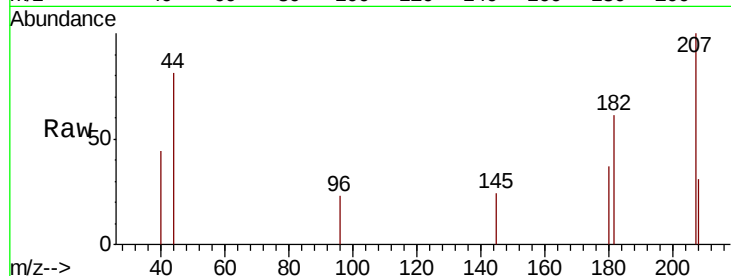
Tot Ion:180 Resp: 372

Ion Ratio Lower Upper

180 100

182 152.7 46.9 140.6#

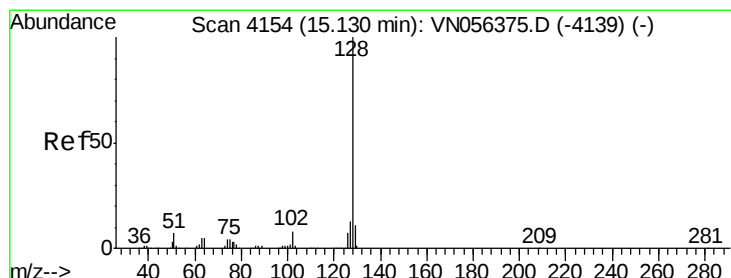
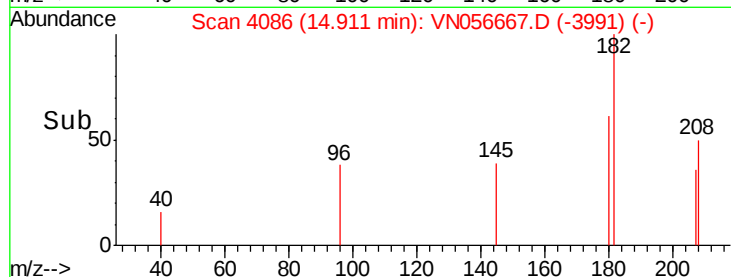
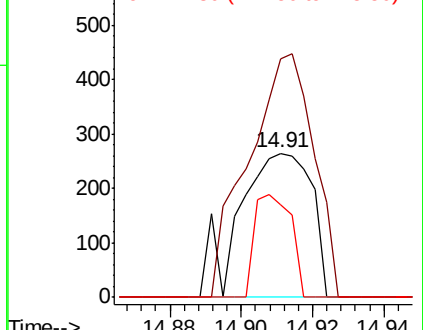
145 35.8 14.4 43.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 5.423 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056667.D

Acq: 11 Jul 2019 16:09

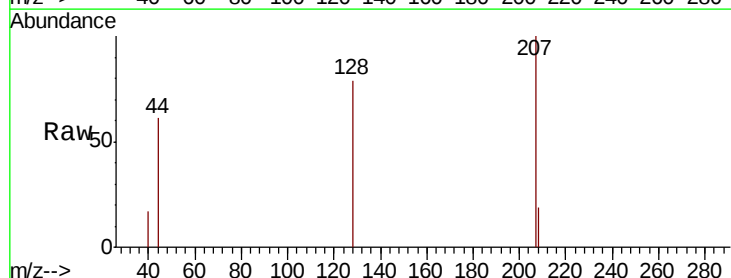
Tgt Ion:128 Resp: 1438

Ion Ratio Lower Upper

128 100

127 2.2 10.2 15.2#

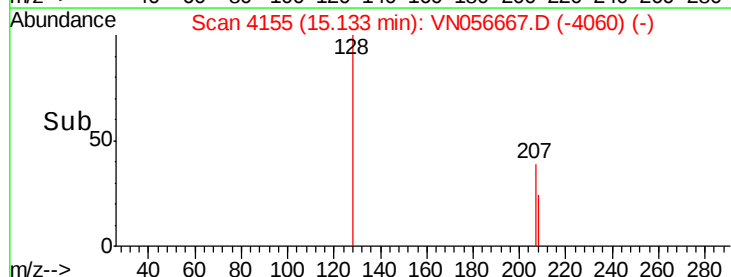
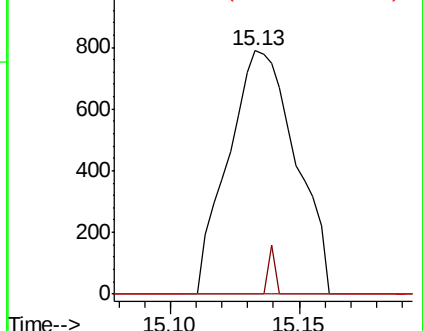
129 0.0 8.6 12.8#

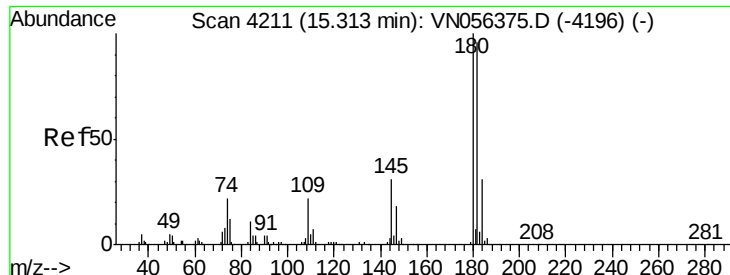


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

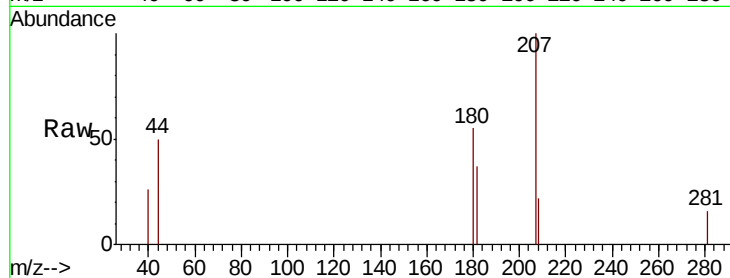




#96
 1,2,3-Trichlorobenzene
 Concen: 4.768 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN056667.D
 Acq: 11 Jul 2019 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.6	48.3	144.8
145	0.0	15.4	46.1



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

