

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101019\
 Data File : VN058665.D
 Acq On : 10 Oct 2019 00:41
 Operator : JC/SP
 Sample : K5261-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0551

Quant Time: Oct 10 04:45:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	440097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	694212	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	589835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	224149	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	300229	46.68	ug/l	0.00
Spiked Amount			Recovery	=	93.36%	
35) Dibromofluoromethane	7.57	113	217915	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
50) Toluene-d8	10.09	98	849006	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	12.40	95	269324	44.69	ug/l	0.00
Spiked Amount			Recovery	=	89.38%	

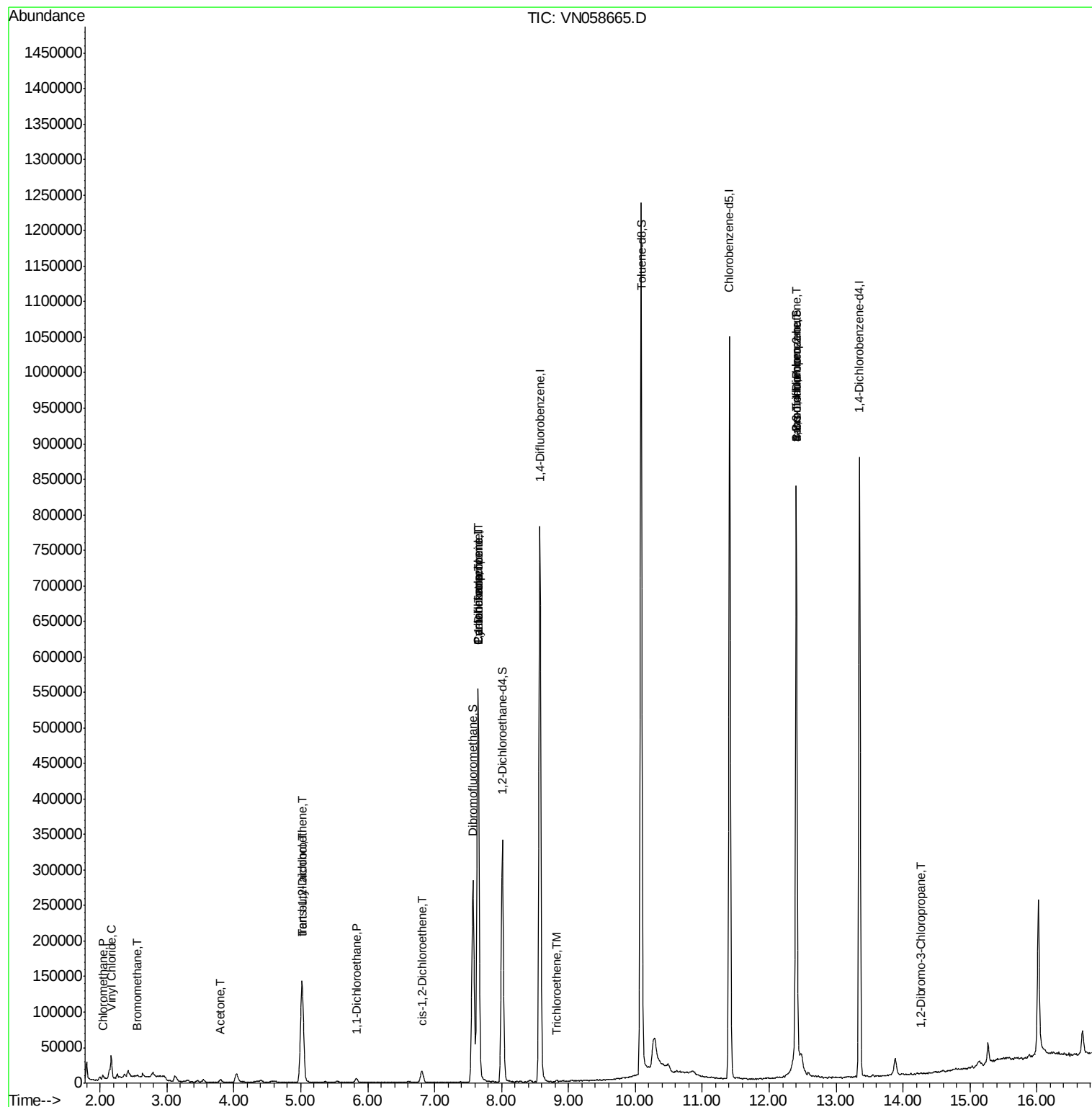
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	4762	0.898	ug/l	97
4) Vinyl Chloride	2.17	62	14662	2.821	ug/l	100
5) Bromomethane	2.56	94	559	0.203	ug/l	81
11) Tert butyl alcohol	5.01	59	4711	6.594	ug/l #	78
16) Acetone	3.80	43	6801	3.102	ug/l	94
21) trans-1,2-Dichloroethene	5.02	96	93803	20.318	ug/l	97
24) 1,1-Dichloroethane	5.83	63	8740	0.955	ug/l #	95
27) cis-1,2-Dichloroethene	6.81	96	9807	1.818	ug/l	82
31) Cyclohexane	7.65	56	10350	1.163	ug/l #	21
36) 1,1-Dichloropropene	7.65	75	35517	5.351	ug/l #	51
38) Carbon Tetrachloride	7.65	117	43628	7.281	ug/l #	15
44) Trichloroethene	8.83	130	1048	0.222	ug/l	76
71) Bromoform	12.39	173	410	0.843	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	144369	35.263	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	144369	107.097	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.27	75	413	0.478	ug/l #	5
96) 1,2,3-Trichlorobenzene	15.29	180	62	Below Cal	#	12

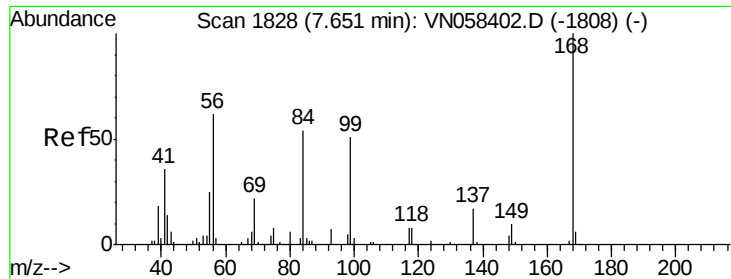
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

Instrument :

MSVOA_N

ClientSampled :

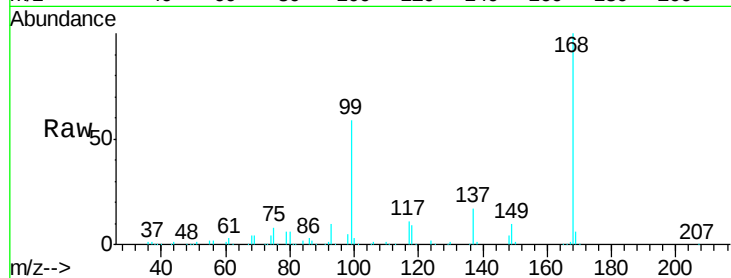
S49-0551

Tgt Ion:168 Resp: 440097

Ion Ratio Lower Upper

168 100

99 58.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

100000

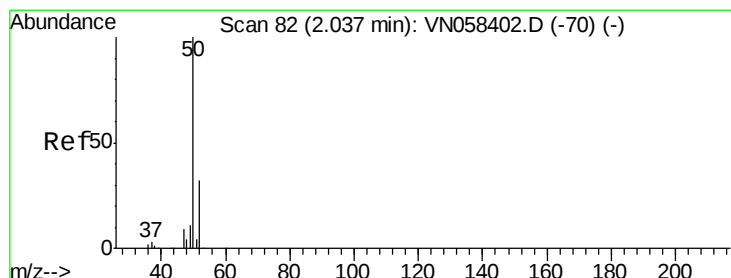
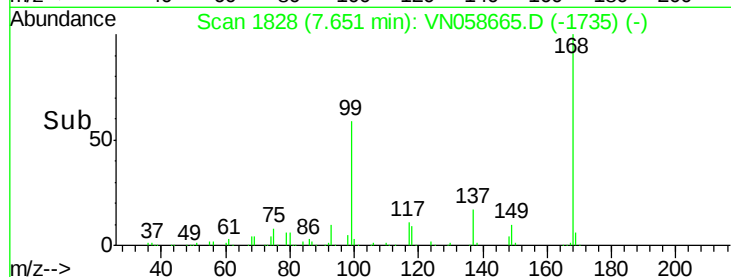
50000

0

7.60

7.70

Time-->



#3

Chloromethane

Concen: 0.898 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058665.D

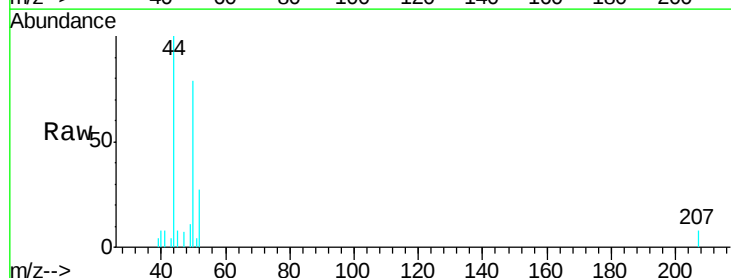
Acq: 10 Oct 2019 00:41

Tgt Ion: 50 Resp: 4762

Ion Ratio Lower Upper

50 100

52 34.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

3000

2000

1000

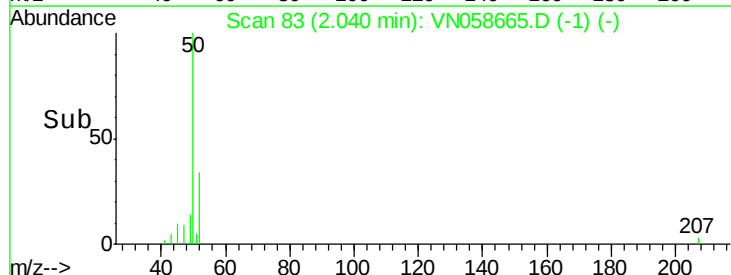
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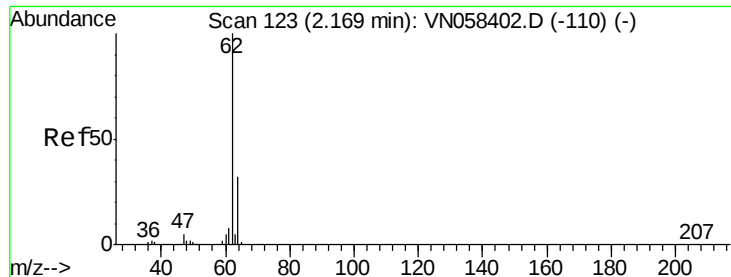
2.00

2.05

2.10

Time-->





#4

Vinyl Chloride

Concen: 2.821 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

Instrument :

MSVOA_N

ClientSampled :

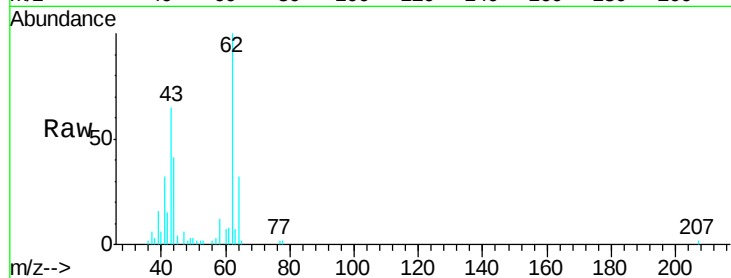
S49-0551

Tgt Ion: 62 Resp: 14662

Ion Ratio Lower Upper

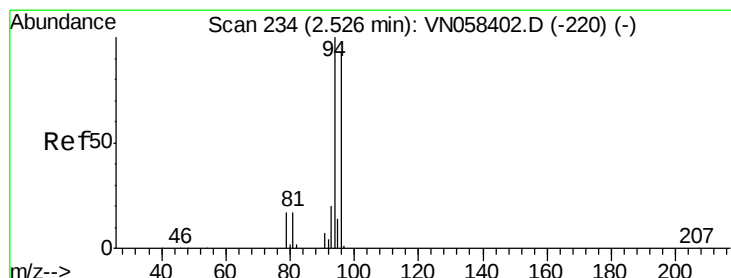
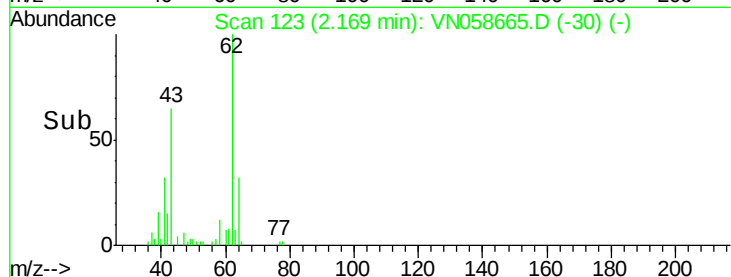
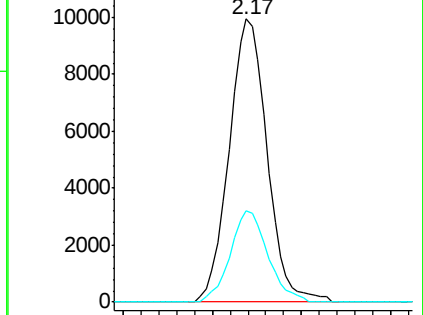
62 100

64 32.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#5

Bromomethane

Concen: 0.203 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN058665.D

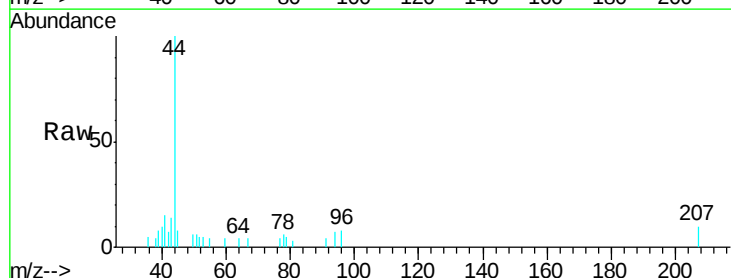
Acq: 10 Oct 2019 00:41

Tgt Ion: 94 Resp: 559

Ion Ratio Lower Upper

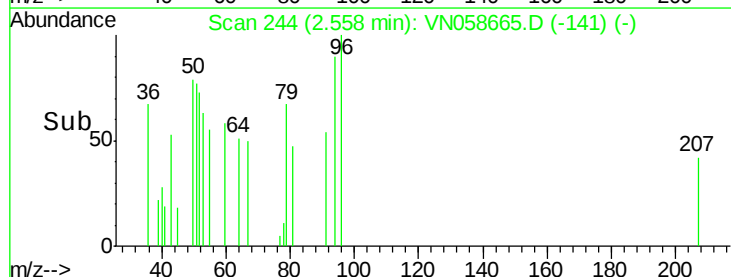
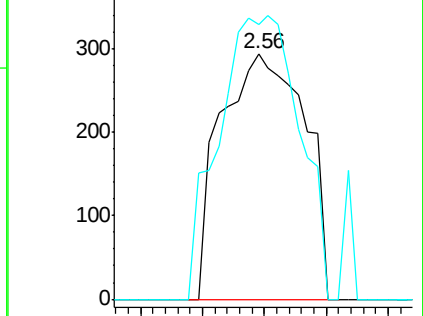
94 100

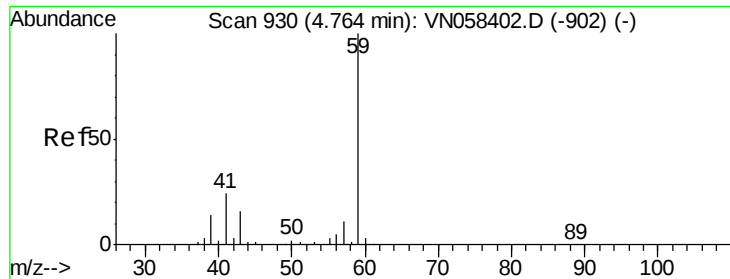
96 111.5 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC

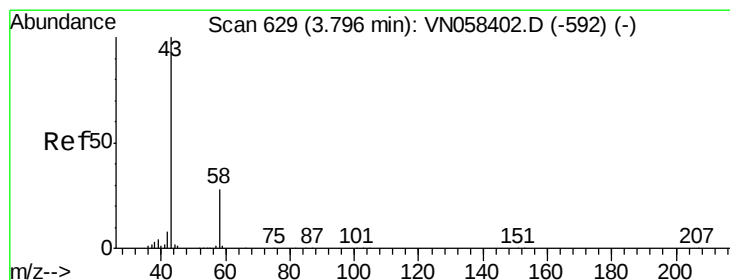
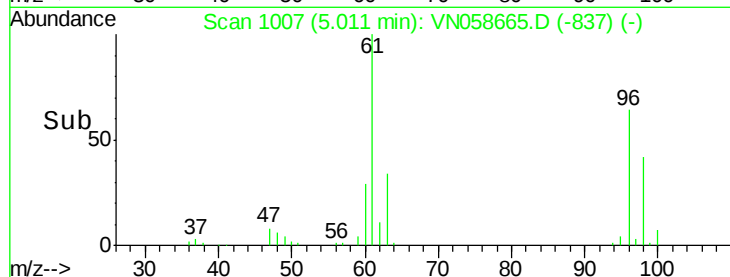
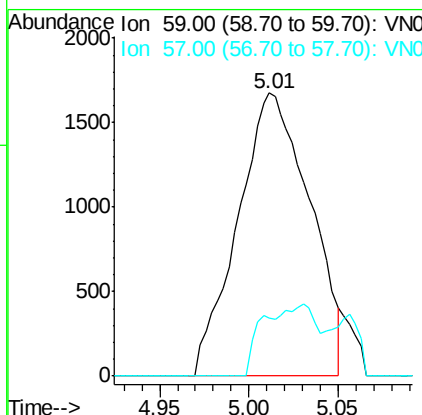
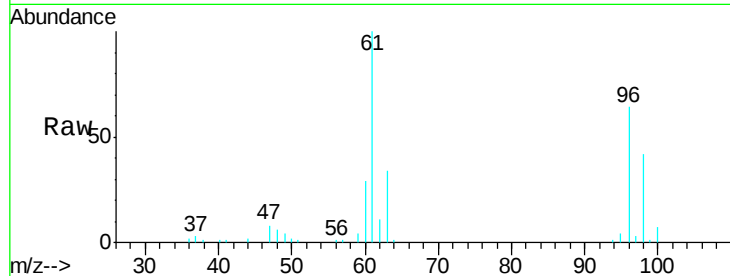




#11
Tert butyl alcohol
Concen: 6.594 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.25 min
Lab File: VN058665.D
Acq: 10 Oct 2019 00:41

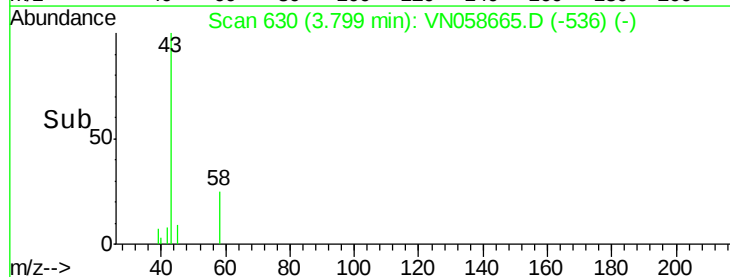
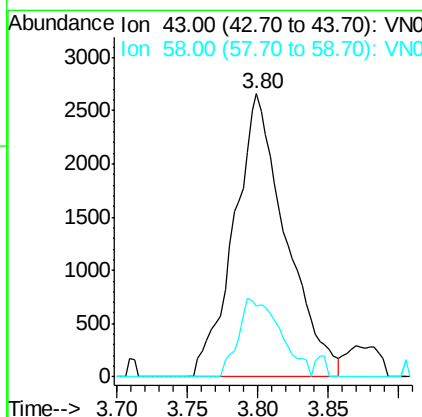
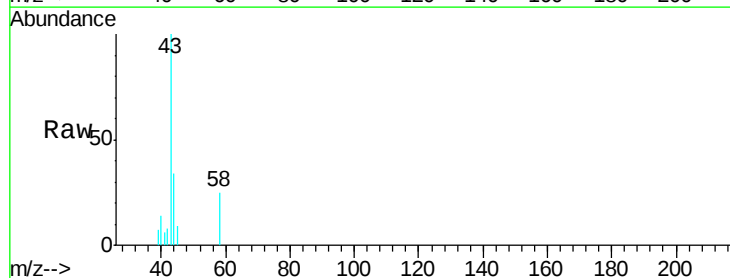
Instrument :
MSVOA_N
ClientSampleId :
S49-0551

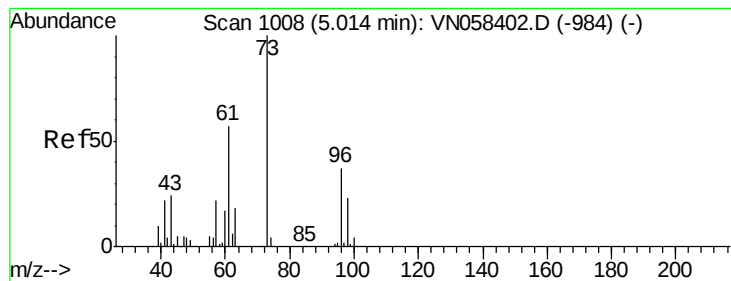
Tgt Ion: 59 Resp: 4711
Ion Ratio Lower Upper
59 100
57 19.6 9.0 13.4#



#16
Acetone
Concen: 3.102 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN058665.D
Acq: 10 Oct 2019 00:41

Tgt Ion: 43 Resp: 6801
Ion Ratio Lower Upper
43 100
58 24.9 22.4 33.6





#21

trans-1,2-Dichloroethene

Concen: 20.318 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.01 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

Instrument :

MSVOA_N

ClientSampleId :

S49-0551

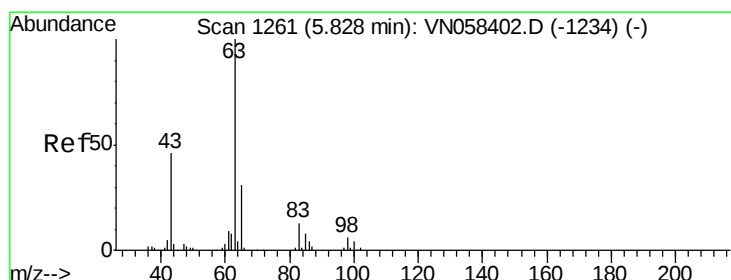
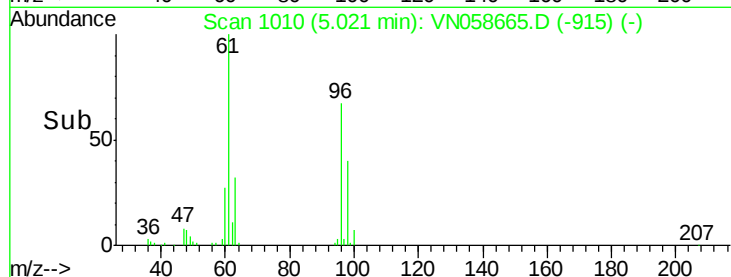
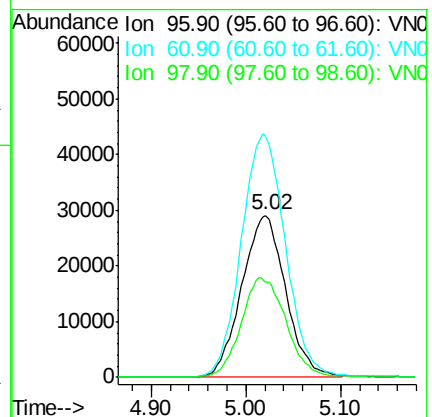
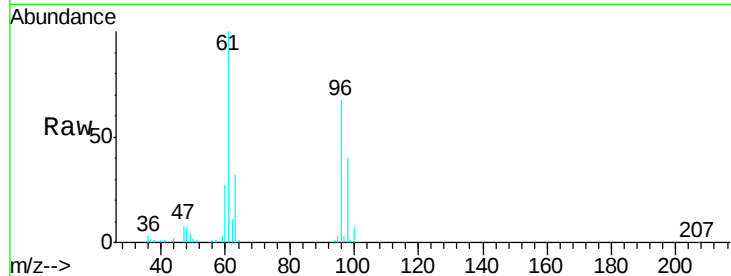
Tgt Ion: 96 Resp: 93803

Ion Ratio Lower Upper

96 100

61 148.5 121.9 182.9

98 59.0 49.3 73.9



#24

1,1-Dichloroethane

Concen: 0.955 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

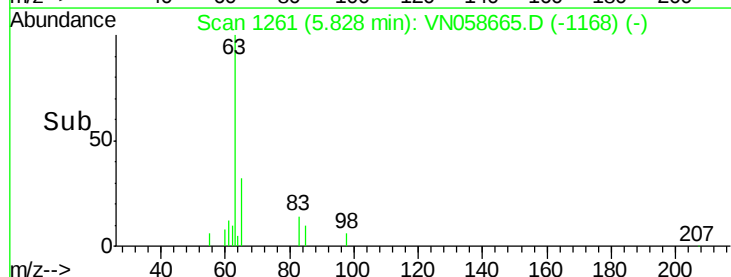
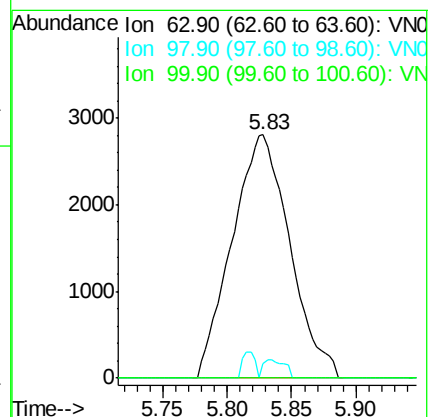
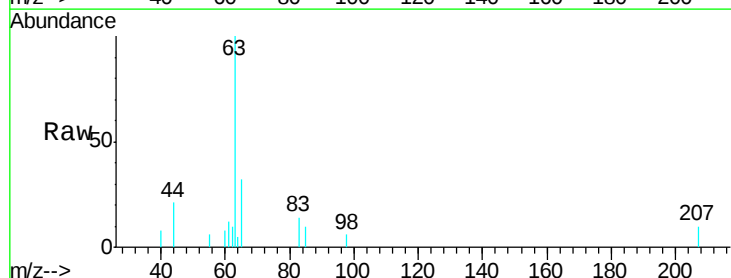
Tgt Ion: 63 Resp: 8740

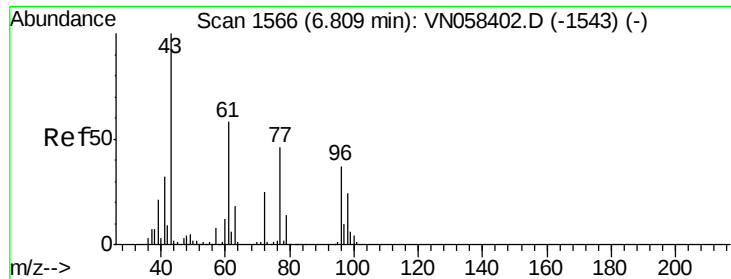
Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.0

100 0.0 2.0 5.8#





#27

cis-1,2-Dichloroethene

Concen: 1.818 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

Instrument :

MSVOA_N

ClientSampled :

S49-0551

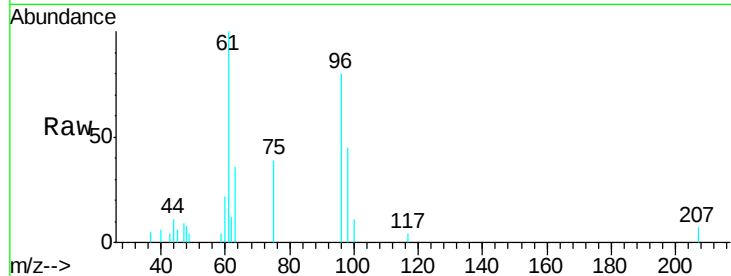
Tgt Ion: 96 Resp: 9807

Ion Ratio Lower Upper

96 100

61 129.0 0.0 318.8

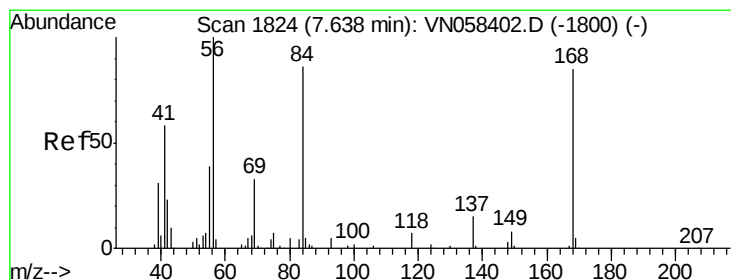
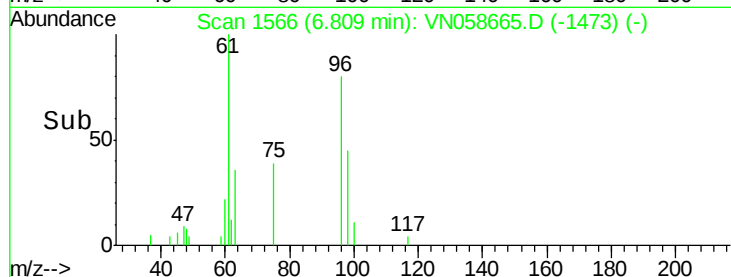
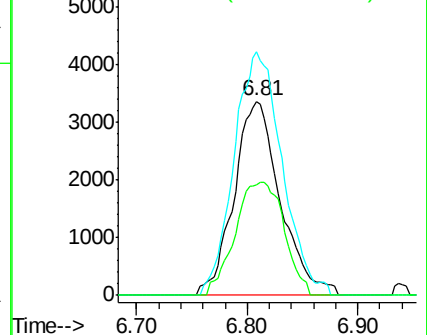
98 61.3 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.163 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

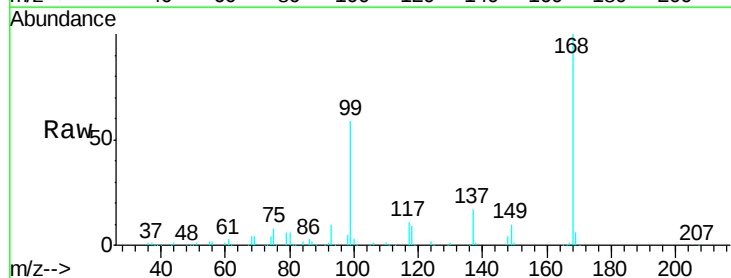
Tgt Ion: 56 Resp: 10350

Ion Ratio Lower Upper

56 100

69 160.3 26.2 39.4#

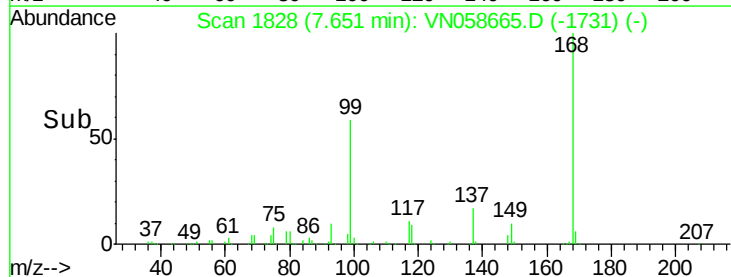
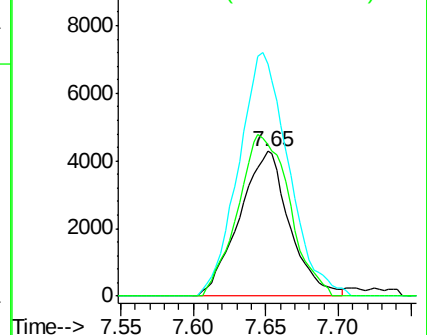
84 104.5 67.6 101.4#

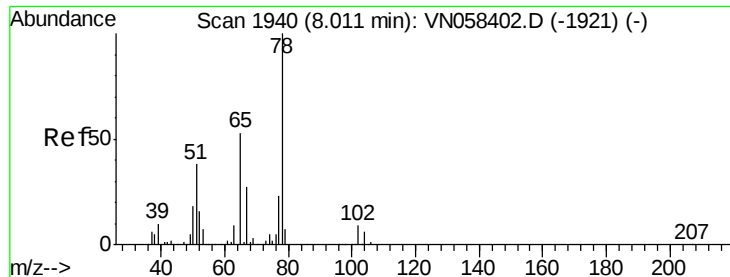


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

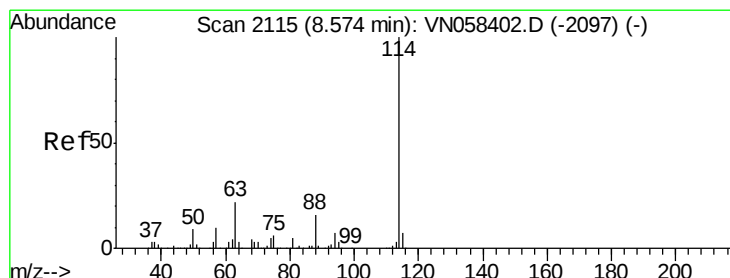
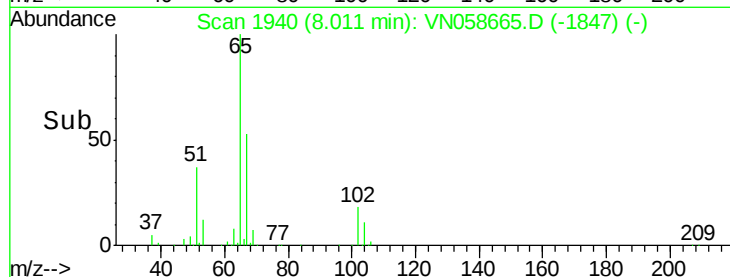
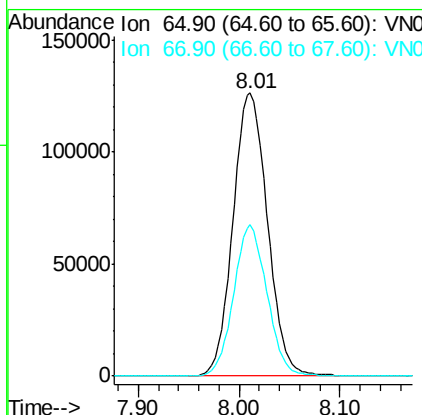
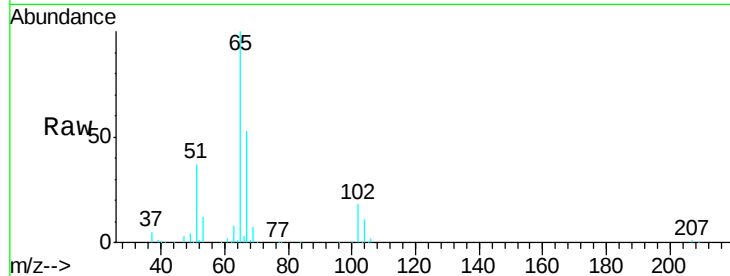




#33
 1,2-Dichloroethane-d4
 Concen: 46.682 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058665.D
 Acq: 10 Oct 2019 00:41

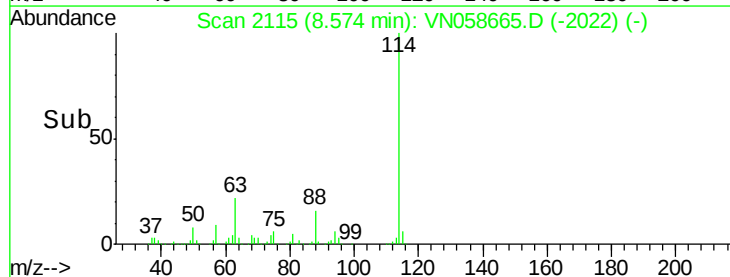
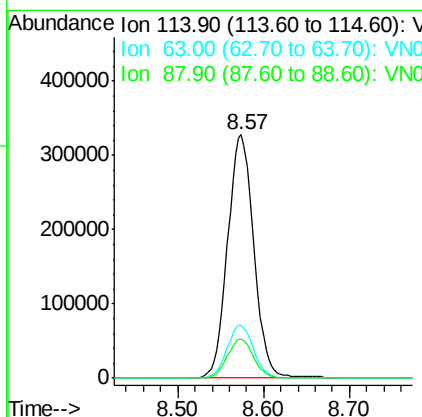
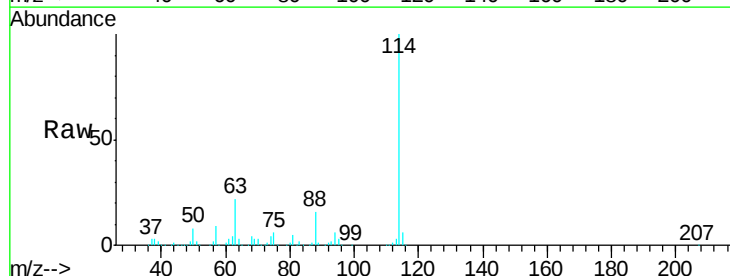
Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0551

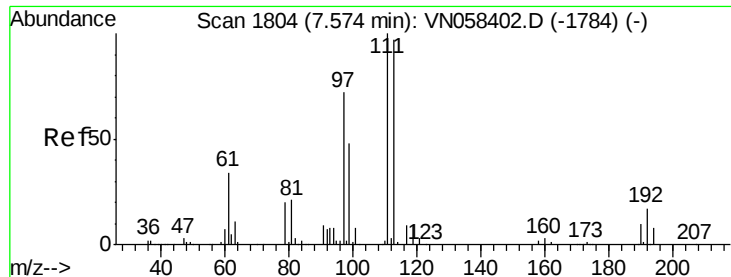
Tgt Ion: 65 Resp: 300229
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058665.D
 Acq: 10 Oct 2019 00:41

Tgt Ion: 114 Resp: 694212
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 45.0
 88 16.1 0.0 32.2

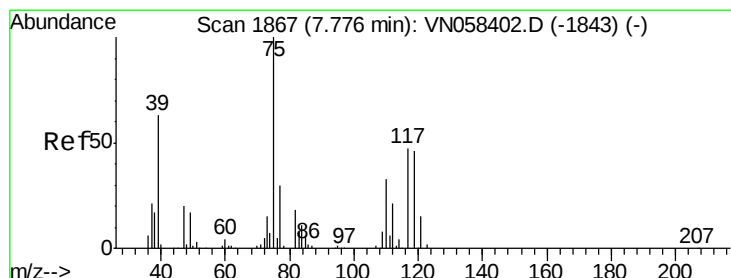
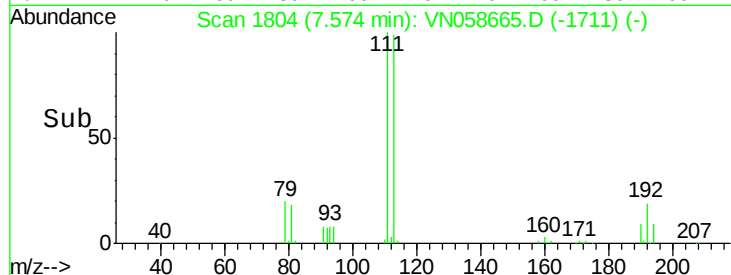
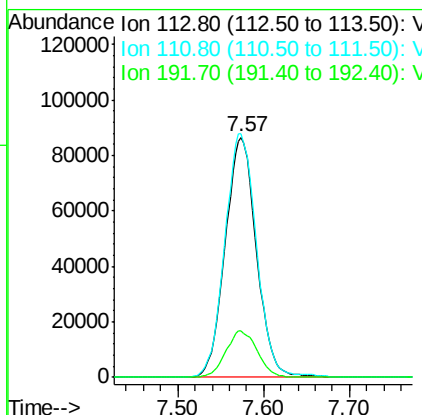
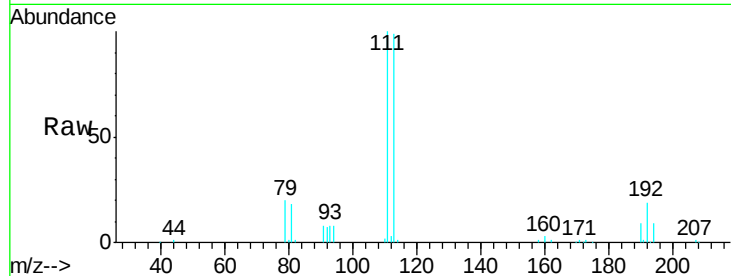




#35
 Dibromofluoromethane
 Concen: 51.217 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058665.D
 Acq: 10 Oct 2019 00:41

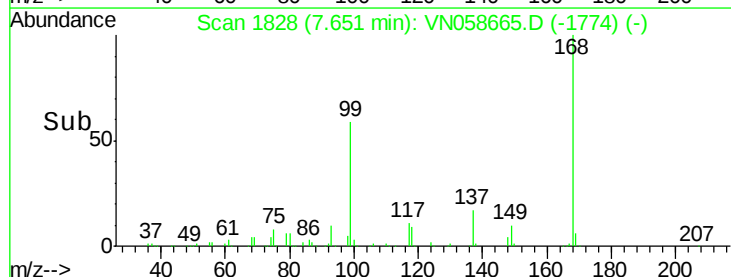
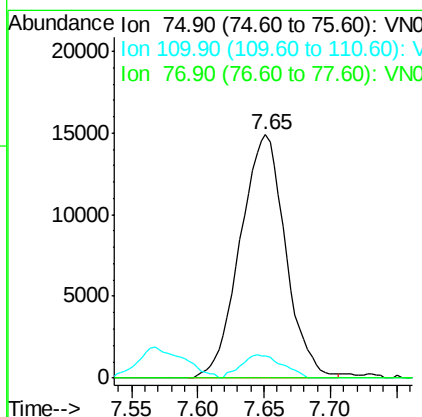
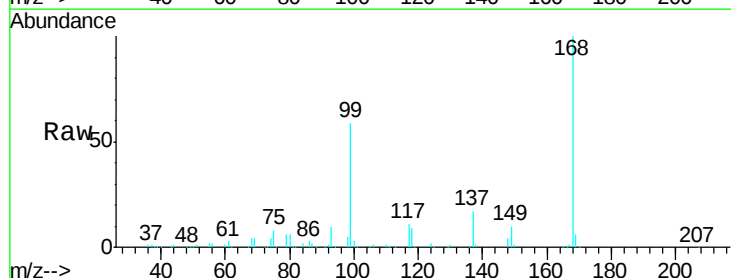
Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0551

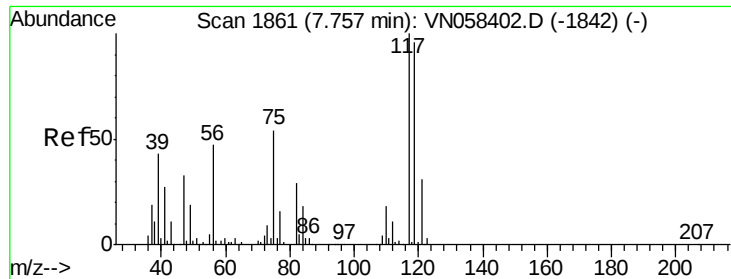
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.4	125.2
192	19.5	14.9	22.3



#36
 1,1-Dichloropropene
 Concen: 5.351 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058665.D
 Acq: 10 Oct 2019 00:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.4	49.2#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 7.281 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

Instrument :

MSVOA_N

ClientSampled :

S49-0551

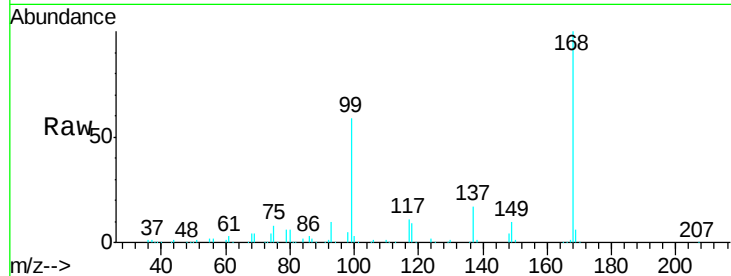
Tgt Ion:117 Resp: 43628

Ion Ratio Lower Upper

117 100

119 4.0 76.6 115.0#

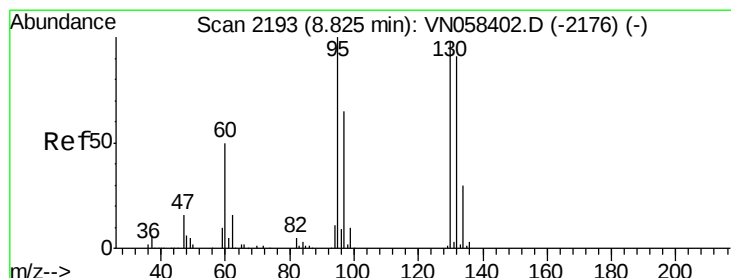
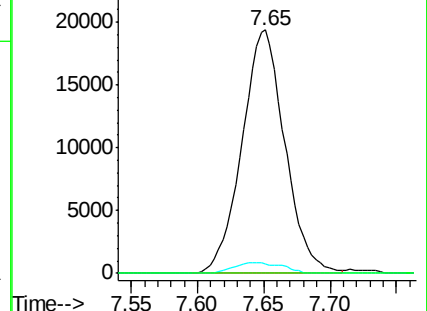
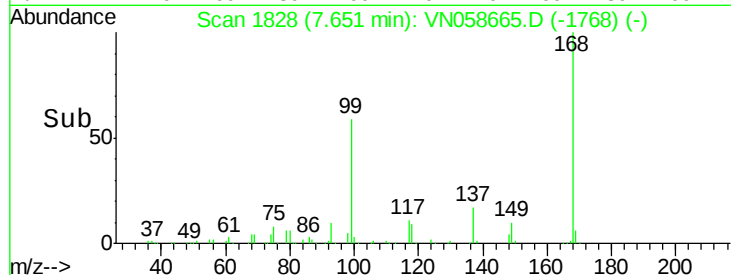
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 0.222 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058665.D

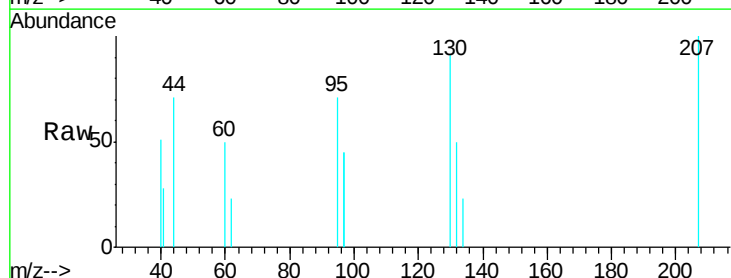
Acq: 10 Oct 2019 00:41

Tgt Ion:130 Resp: 1048

Ion Ratio Lower Upper

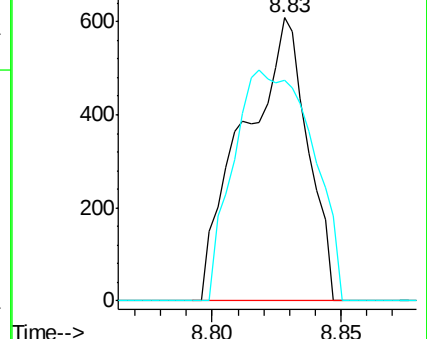
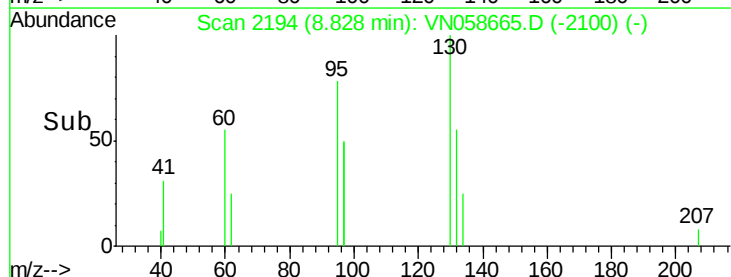
130 100

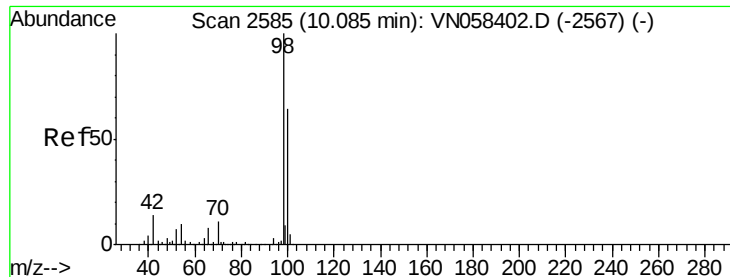
95 78.1 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 50.937 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

Instrument :

MSVOA_N

ClientSampled :

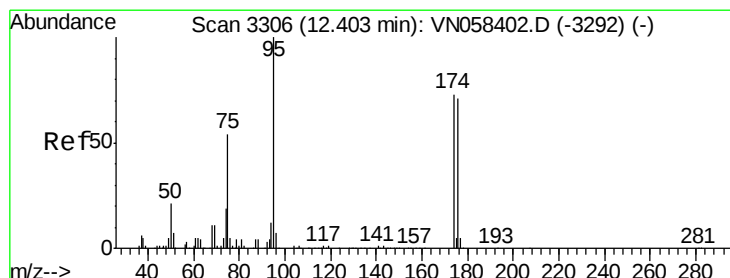
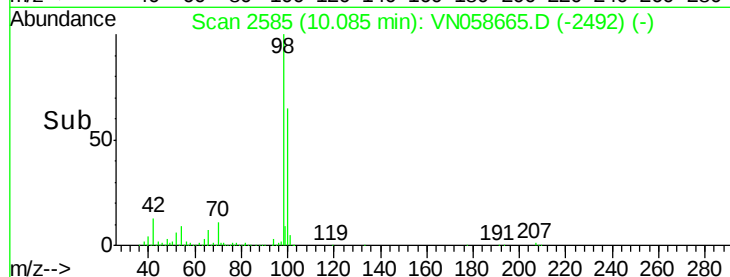
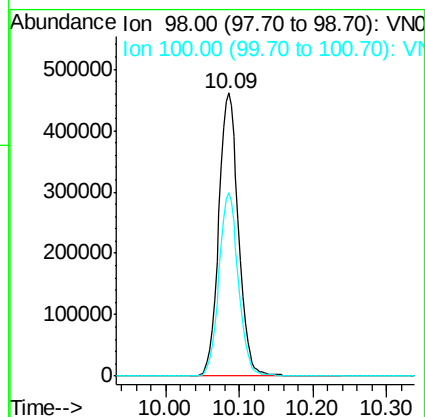
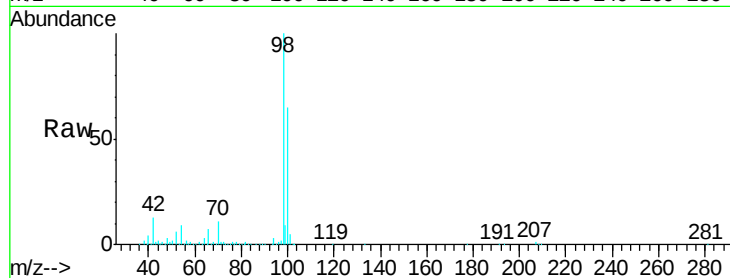
S49-0551

Tgt Ion: 98 Resp: 849006

Ion Ratio Lower Upper

98 100

100 64.2 51.0 76.6



#62

4-Bromofluorobenzene

Concen: 44.688 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

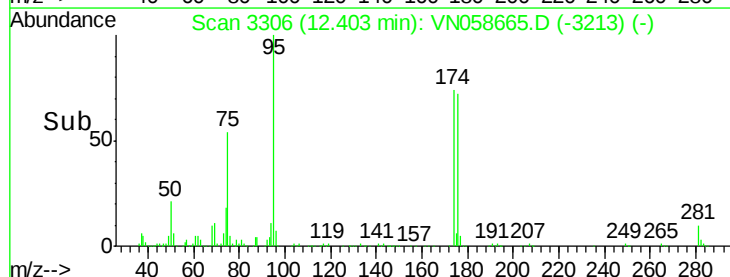
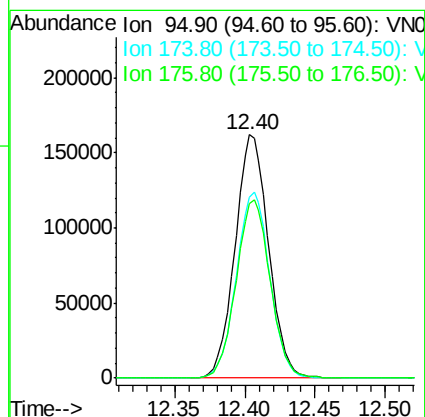
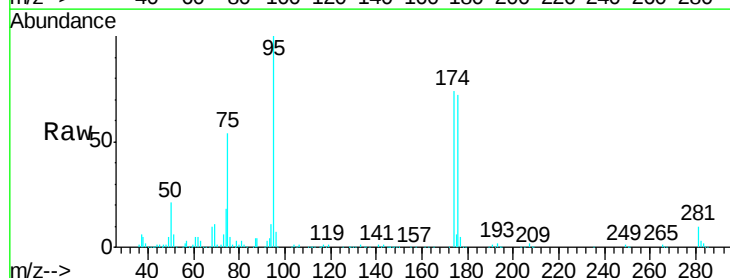
Tgt Ion: 95 Resp: 269324

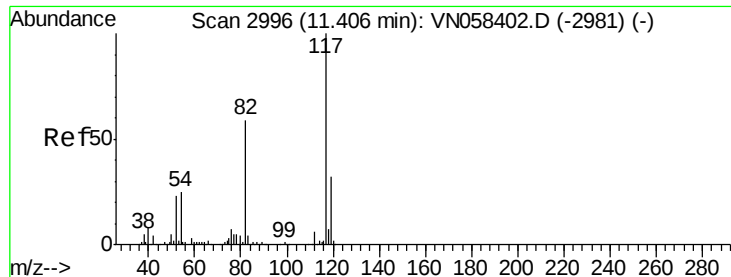
Ion Ratio Lower Upper

95 100

174 76.8 0.0 150.6

176 74.8 0.0 146.2

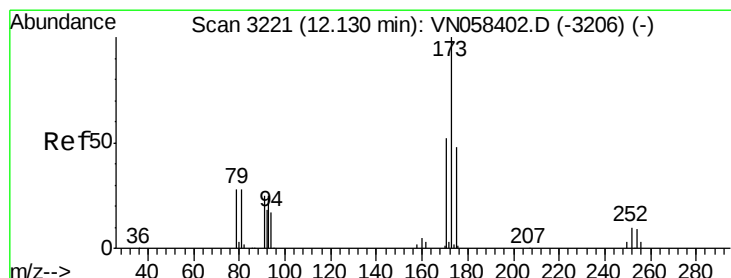
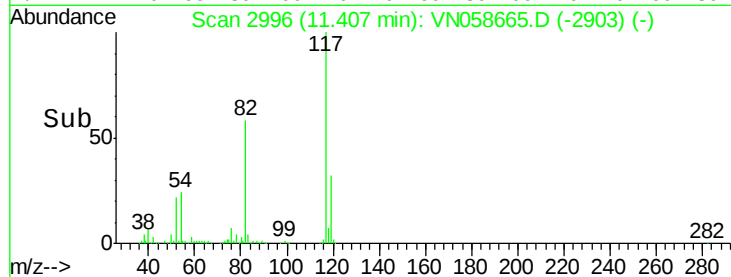
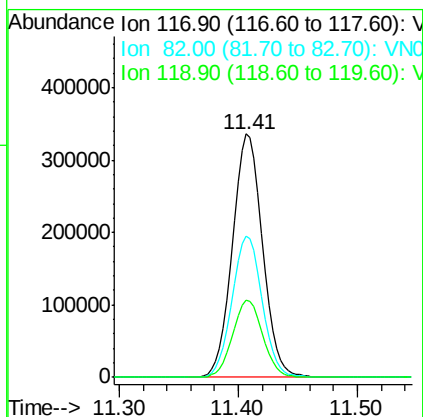
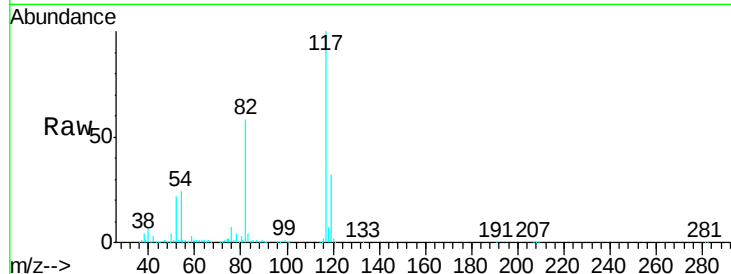




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058665.D
Acq: 10 Oct 2019 00:41

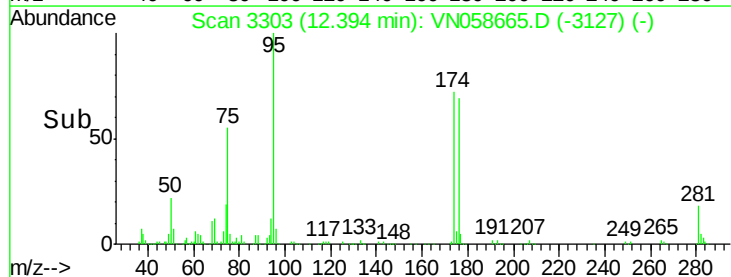
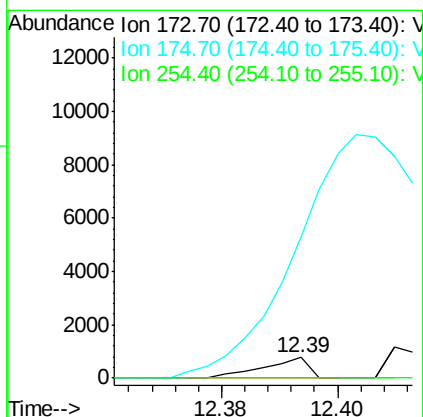
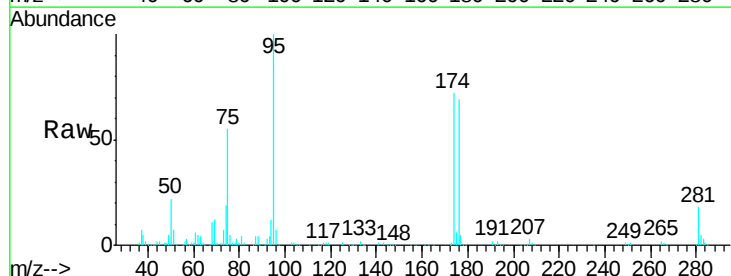
Instrument :
MSVOA_N
ClientSampled :
S49-0551

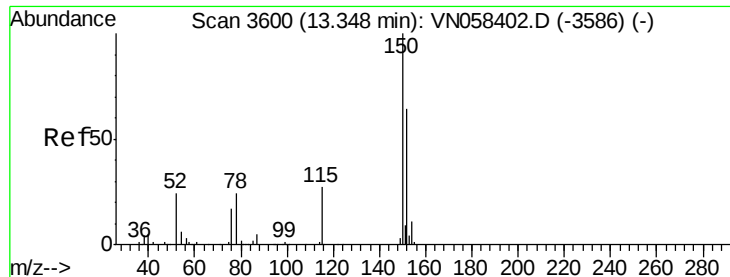
Tgt Ion:117 Resp: 589835
Ion Ratio Lower Upper
117 100
82 58.1 47.4 71.0
119 31.6 25.5 38.3



#71
Bromoform
Concen: 0.843 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN058665.D
Acq: 10 Oct 2019 00:41

Tgt Ion:173 Resp: 410
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058665.D

Acq: 10 Oct 2019 00:41

Instrument :

MSVOA_N

ClientSampleId :

S49-0551

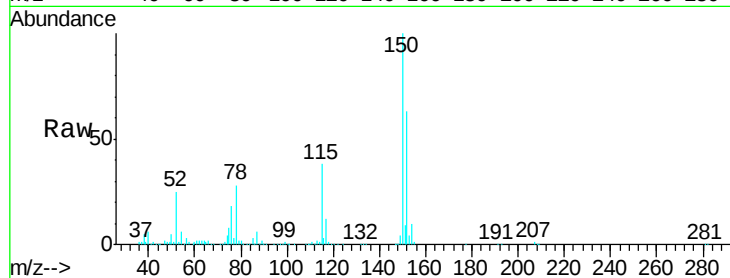
Tgt Ion:152 Resp: 224149

Ion Ratio Lower Upper

152 100

115 61.4 30.0 90.0

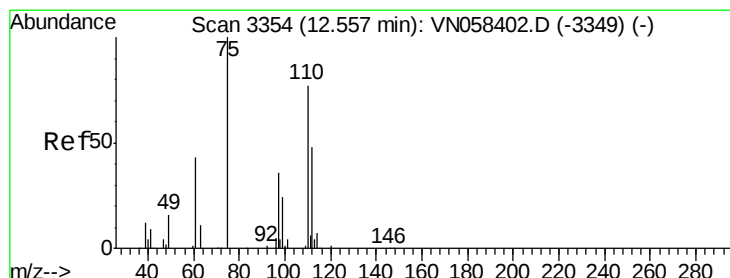
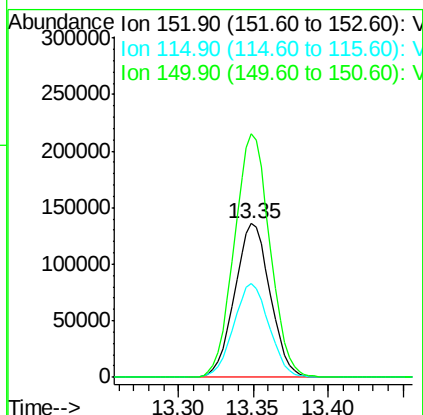
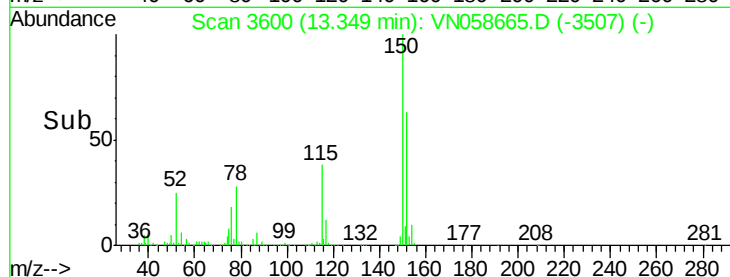
150 159.2 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 35.263 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058665.D

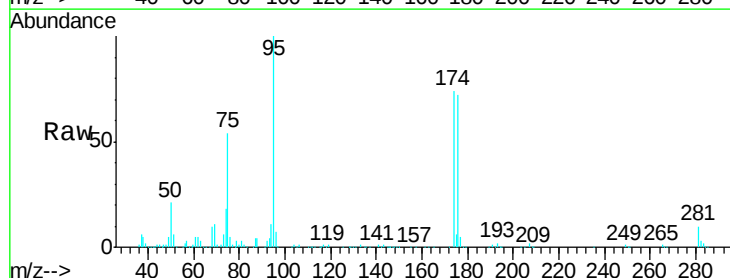
Acq: 10 Oct 2019 00:41

Tgt Ion: 75 Resp: 144369

Ion Ratio Lower Upper

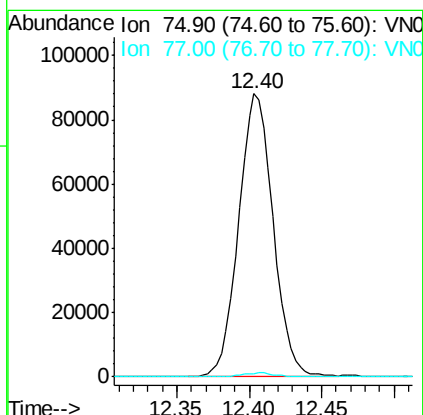
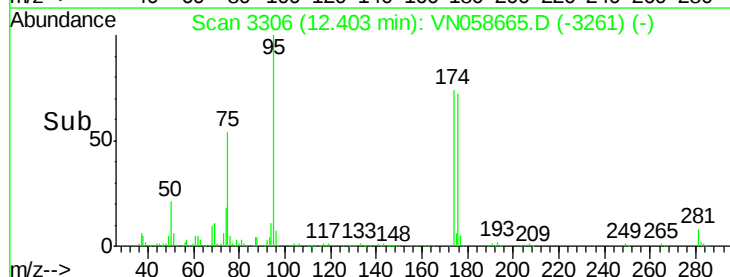
75 100

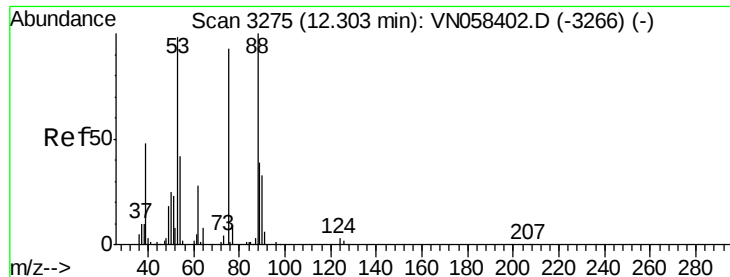
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

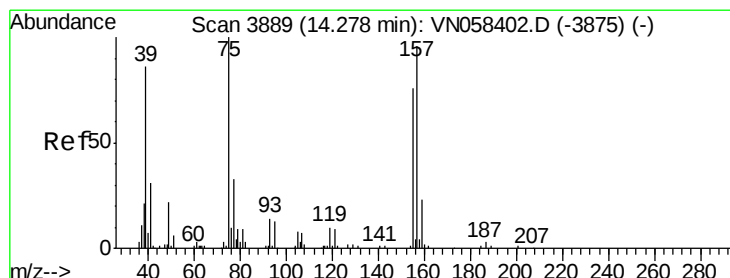
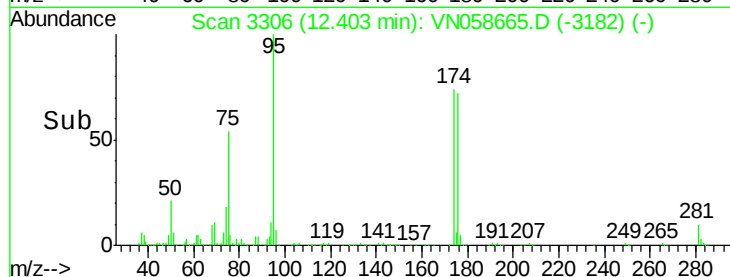
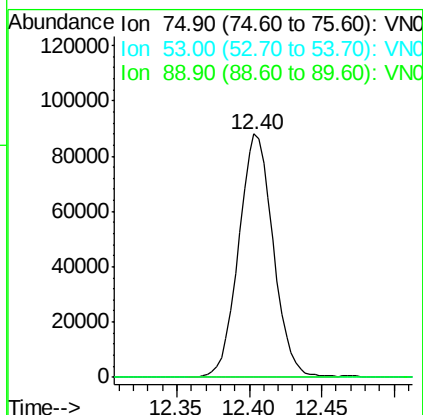
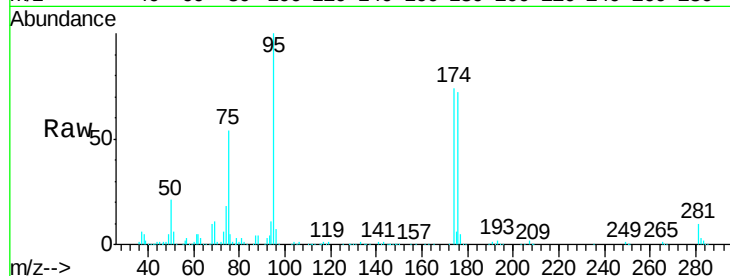




#81
trans-1,4-Dichloro-2-butene
Concen: 107.097 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058665.D
Acq: 10 Oct 2019 00:41

Instrument :
MSVOA_N
ClientSampleId :
S49-0551

Tgt Ion: 75 Resp: 144369
Ion Ratio Lower Upper
75 100
53 0.1 85.4 128.0#
89 0.0 35.0 52.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.478 ug/l
RT: 14.27 min Scan# 3886
Delta R.T. -0.01 min
Lab File: VN058665.D
Acq: 10 Oct 2019 00:41

Tgt Ion: 75 Resp: 413
Ion Ratio Lower Upper
75 100
155 0.0 39.2 117.6#
157 0.0 48.7 146.1#

