

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058317.D
 Acq On : 24 Sep 2019 1:08
 Operator : JC/SP
 Sample : K5002-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0519

Quant Time: Sep 24 07:07:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	454633	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	742555	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	623463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	233476	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	340366	53.75	ug/l	0.00
Spiked Amount						
			Recovery	=	107.50%	
35) Dibromofluoromethane	7.58	113	236641	52.42	ug/l	0.00
Spiked Amount						
			Recovery	=	104.84%	
50) Toluene-d8	10.08	98	942840	53.61	ug/l	0.00
Spiked Amount						
			Recovery	=	107.22%	
62) 4-Bromofluorobenzene	12.41	95	287872	44.06	ug/l	0.00
Spiked Amount						
			Recovery	=	88.12%	

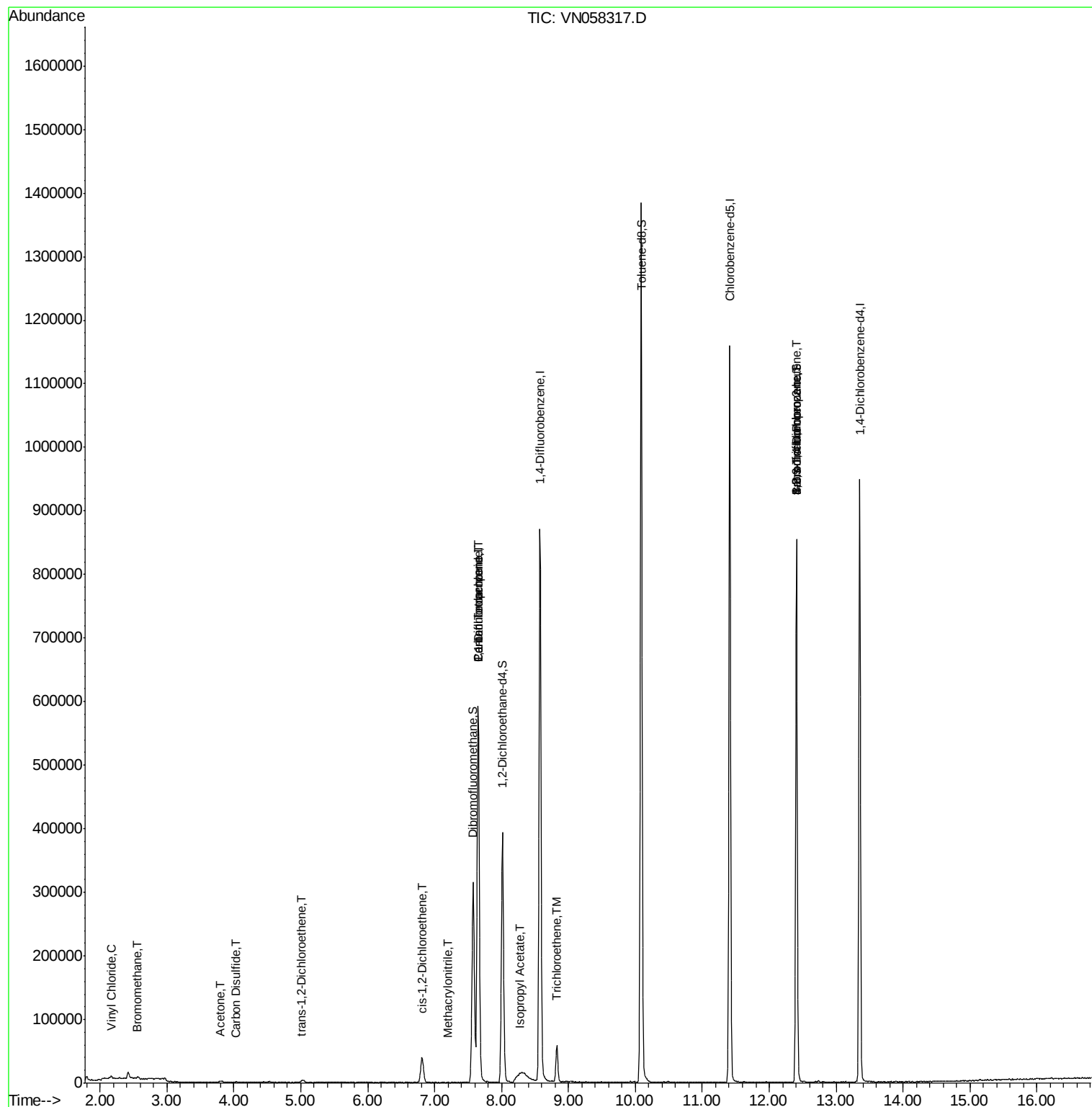
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	475	Below Cal	#	42
4) Vinyl Chloride	2.17	62	4790	0.627	ug/l #	87
5) Bromomethane	2.56	94	351	0.930	ug/l #	71
6) Chloroethane	2.68	64	30	Below Cal	#	44
16) Acetone	3.81	43	4629	2.154	ug/l	90
17) Carbon Disulfide	4.02	76	97	0.295	ug/l #	74
20) Methylene Chloride	4.54	84	369	Below Cal	#	45
21) trans-1,2-Dichloroethene	5.02	96	2636	0.468	ug/l #	79
27) cis-1,2-Dichloroethene	6.81	96	22427	4.864	ug/l	88
31) Cyclohexane	7.65	56	12252	Below Cal	#	3
36) 1,1-Dichloropropene	7.65	75	40139	7.496	ug/l #	50
38) Carbon Tetrachloride	7.65	117	46971	8.726	ug/l #	15
41) Methacrylonitrile	7.20	41	92	0.943	ug/l #	100
43) Isopropyl Acetate	8.27	43	18490	1.782	ug/l #	57
44) Trichloroethene	8.82	130	19447	4.859	ug/l	99
71) Bromoform	12.40	173	289	3.686	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	158406	37.910	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	158406	105.567	ug/l #	5

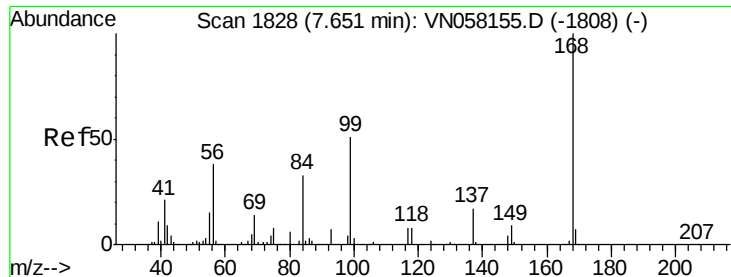
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

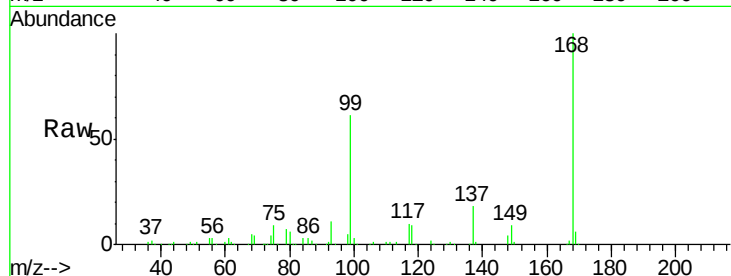
S49-0519

Tot Ion:168 Resp: 454633

Ion Ratio Lower Upper

168 100

99 61.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

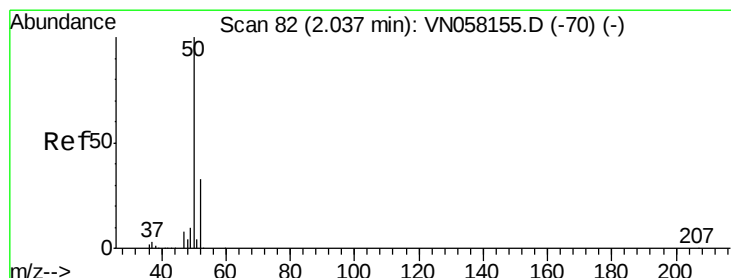
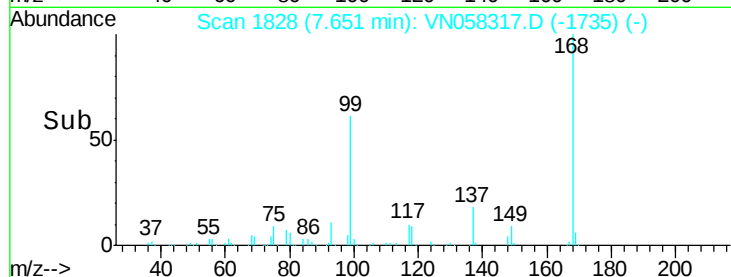
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058317.D

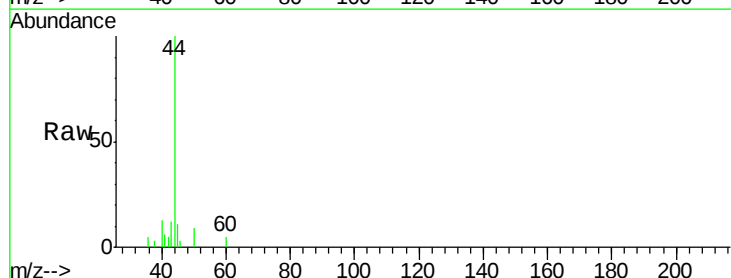
Acq: 24 Sep 2019 1:08

Tgt Ion: 50 Resp: 475

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

500

400

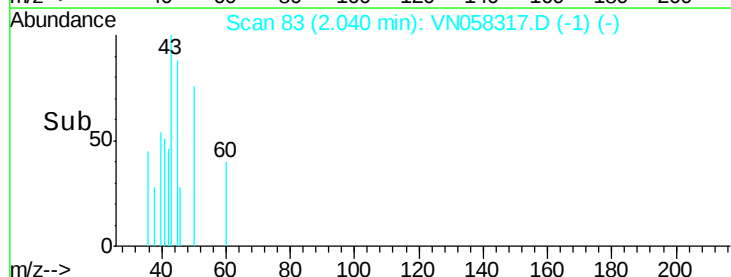
300

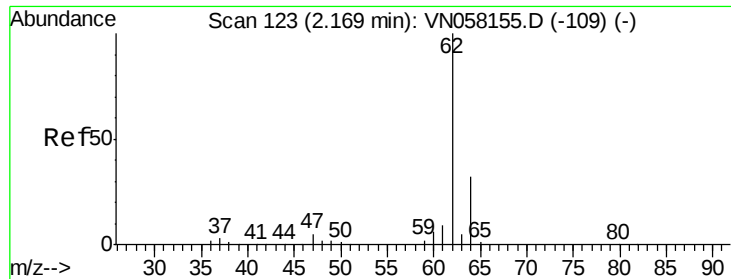
200

100

0

Time--> 2.00 2.02 2.04 2.06





#4

Vinyl Chloride

Concen: 0.627 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

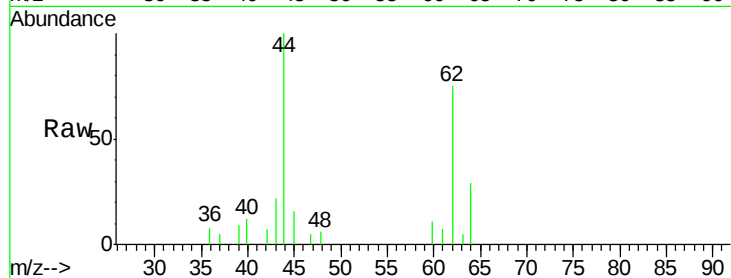
S49-0519

Tot Ion: 62 Resp: 4790

Ion Ratio Lower Upper

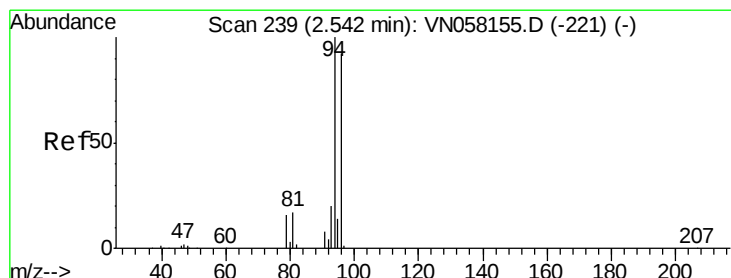
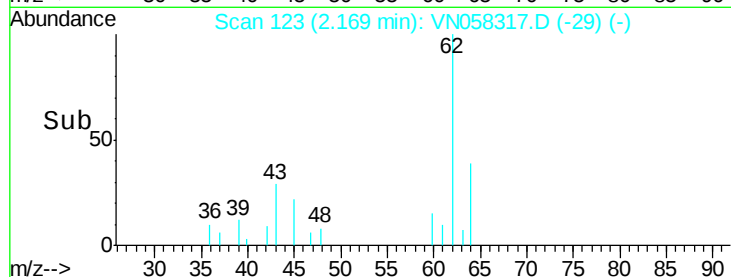
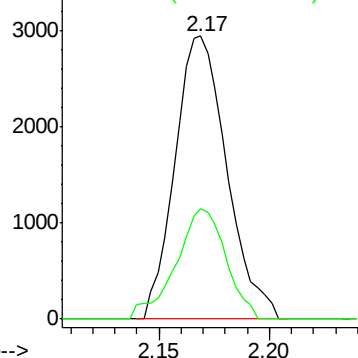
62 100

64 39.1 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#5

Bromomethane

Concen: 0.930 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058317.D

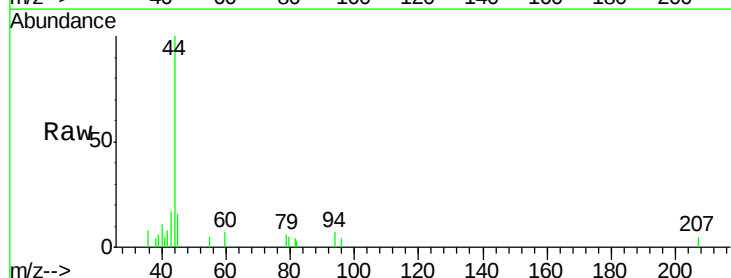
Acq: 24 Sep 2019 1:08

Tgt Ion: 94 Resp: 351

Ion Ratio Lower Upper

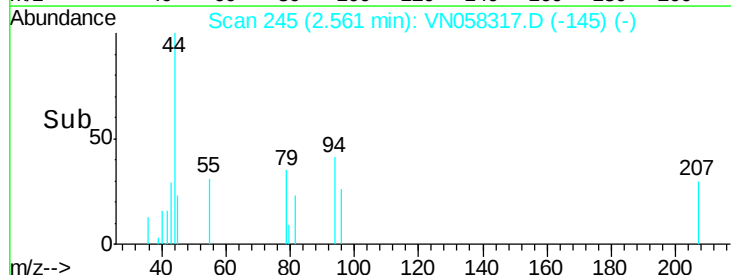
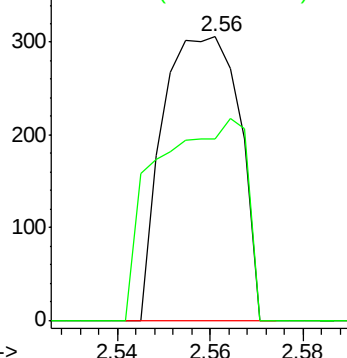
94 100

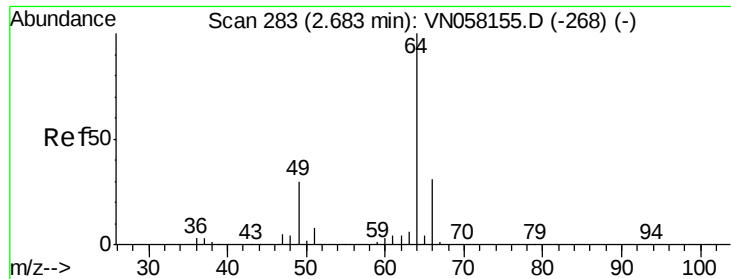
96 64.1 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC





#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

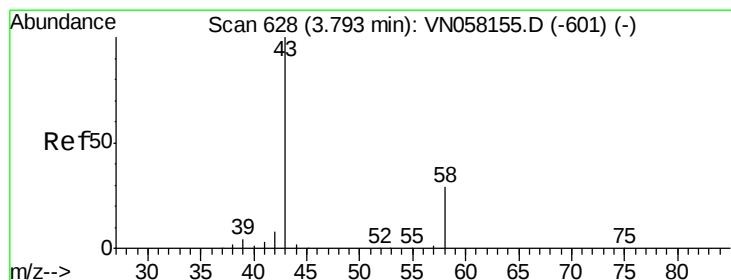
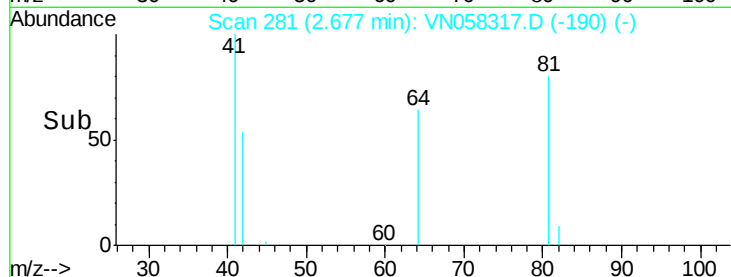
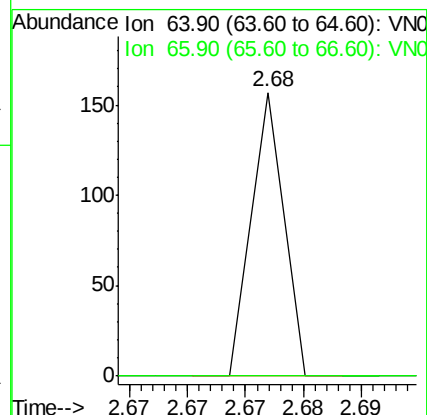
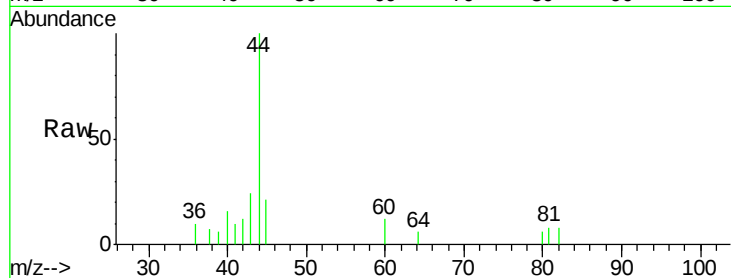
S49-0519

Tot Ion: 64 Resp: 30

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



#16

Acetone

Concen: 2.154 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058317.D

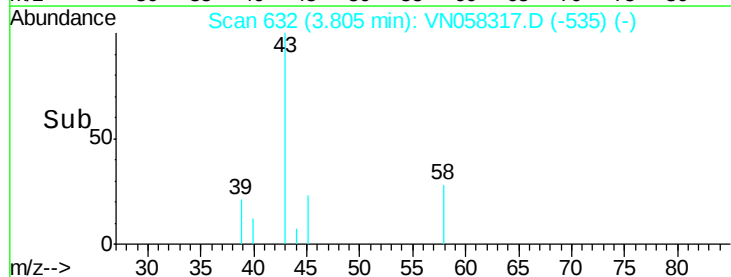
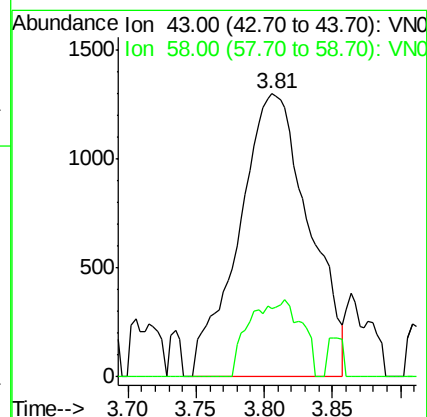
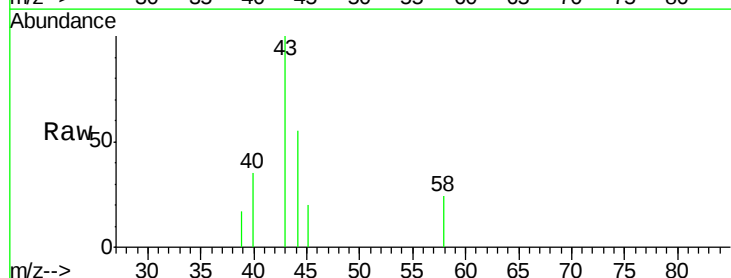
Acq: 24 Sep 2019 1:08

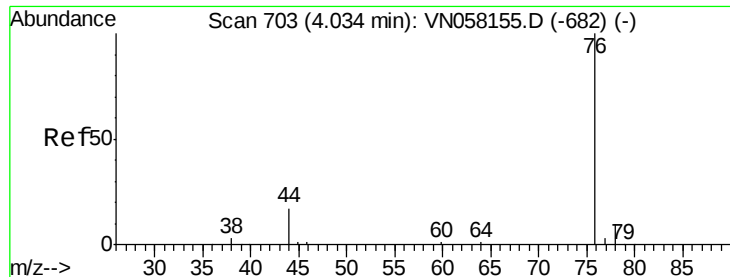
Tgt Ion: 43 Resp: 4629

Ion Ratio Lower Upper

43 100

58 24.0 23.4 35.2

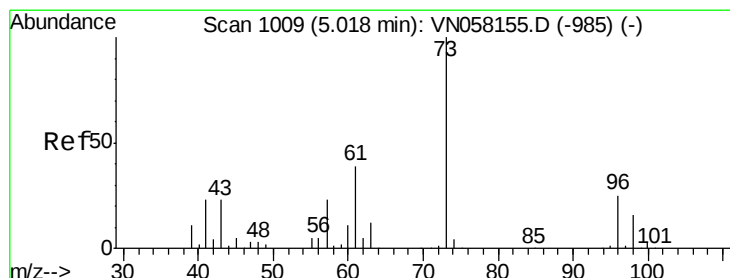
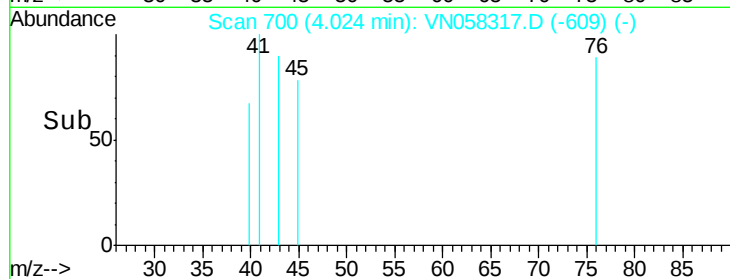
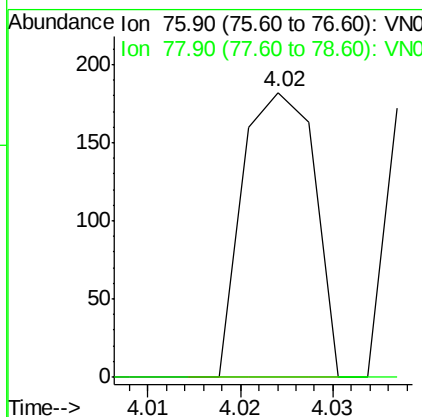
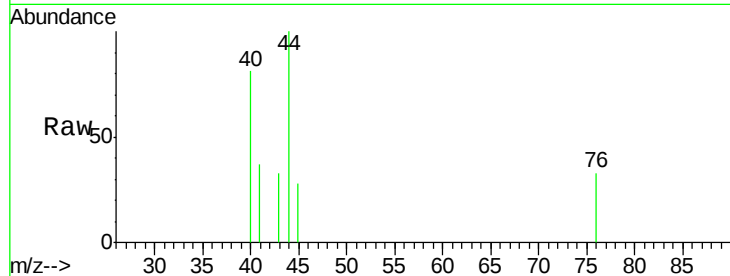




#17
Carbon Disulfide
Concen: 0.295 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.01 min
Lab File: VN058317.D
Acq: 24 Sep 2019 1:08

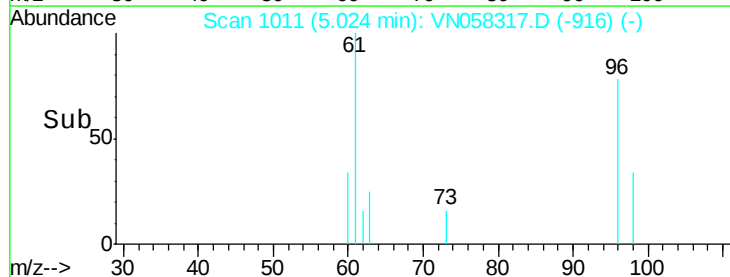
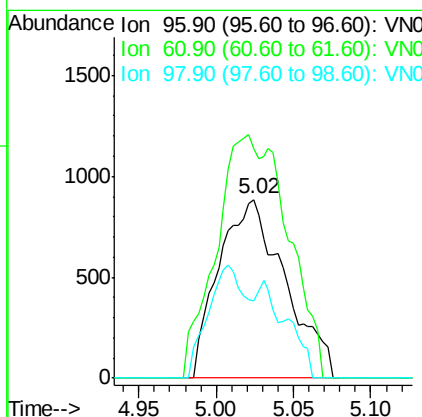
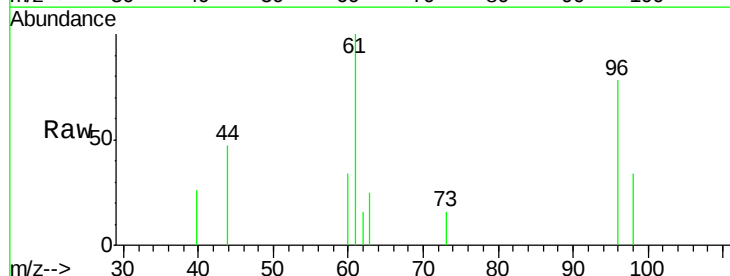
Instrument :
MSVOA_N
ClientSampled :
S49-0519

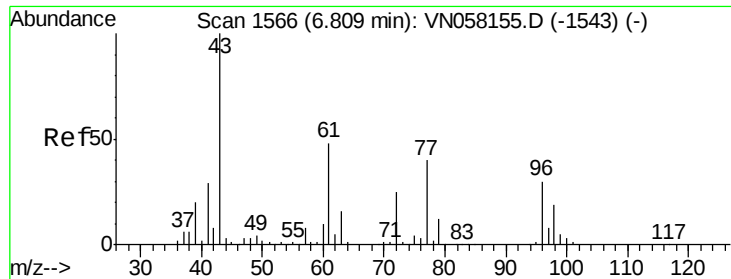
Tot Ion: 76 Resp: 97
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#21
trans-1,2-Dichloroethene
Concen: 0.468 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VN058317.D
Acq: 24 Sep 2019 1:08

Tgt Ion: 96 Resp: 2636
Ion Ratio Lower Upper
96 100
61 128.1 122.2 183.4
98 43.1 49.9 74.9#





#27

cis-1,2-Dichloroethene

Concen: 4.864 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

S49-0519

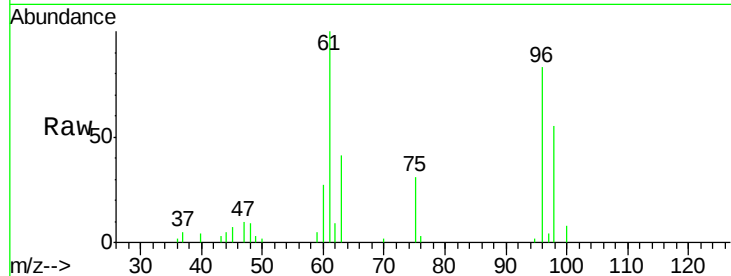
Tot Ion: 96 Resp: 22427

Ion Ratio Lower Upper

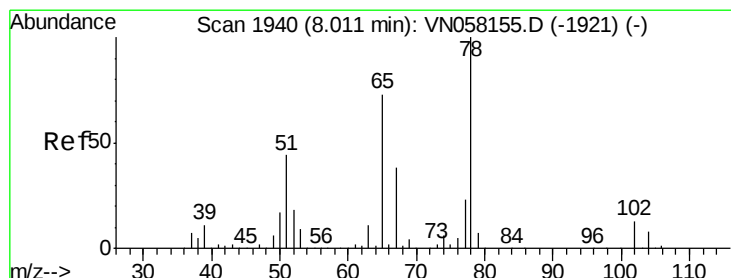
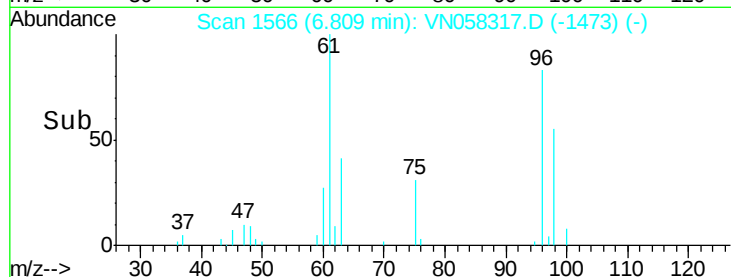
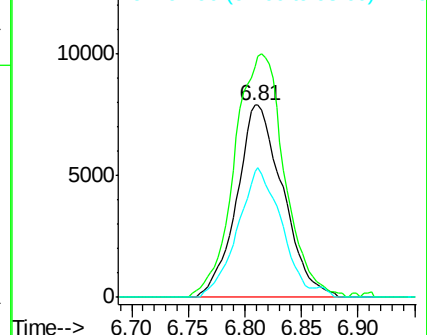
96 100

61 137.2 0.0 319.0

98 63.7 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#33

1,2-Dichloroethane-d4

Concen: 53.752 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058317.D

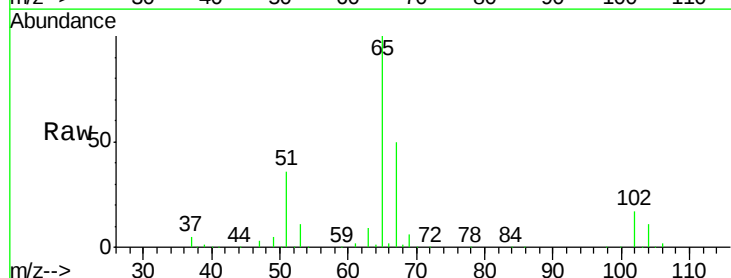
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Tgt Ion: 65 Resp: 340366

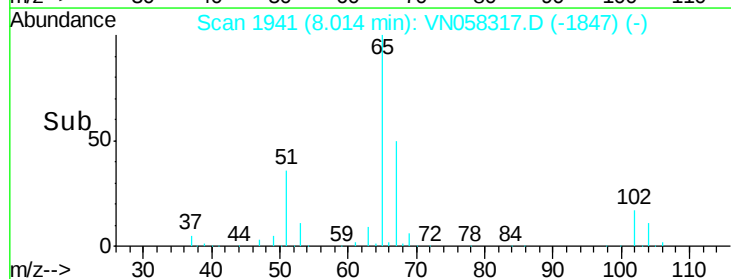
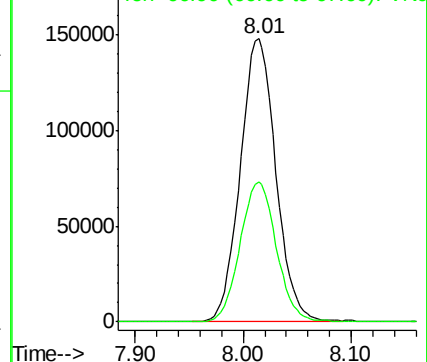
Ion Ratio Lower Upper

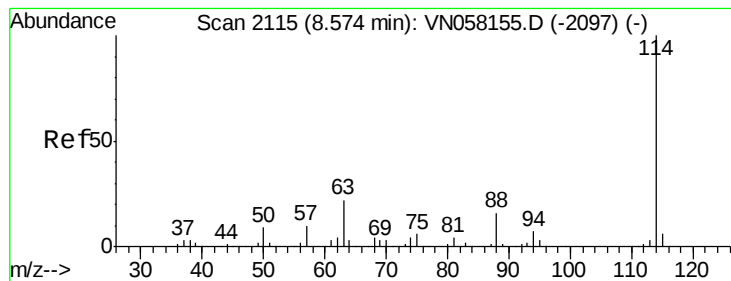
65 100

67 50.5 0.0 103.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

S49-0519

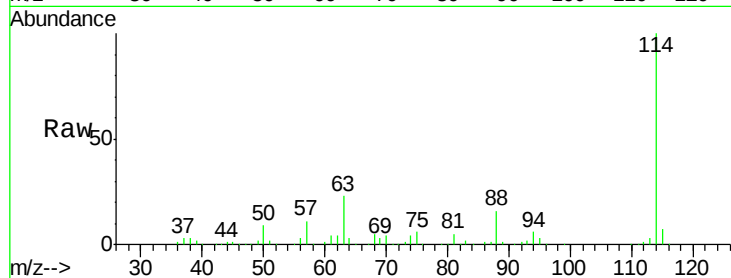
Tot Ion:114 Resp: 742555

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.2

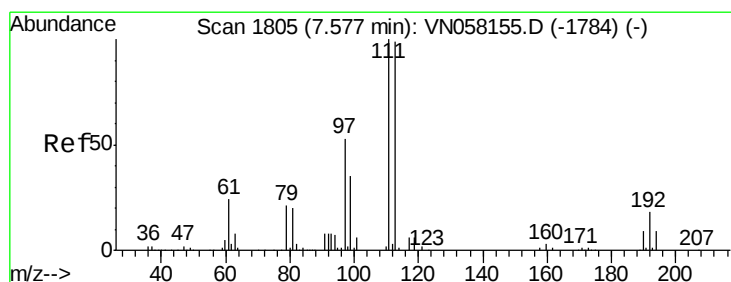
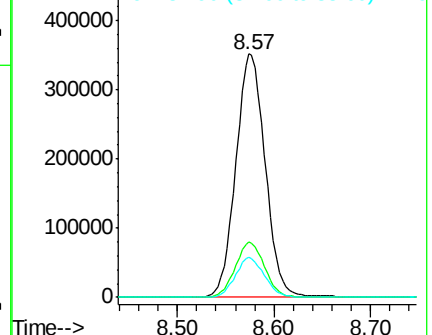
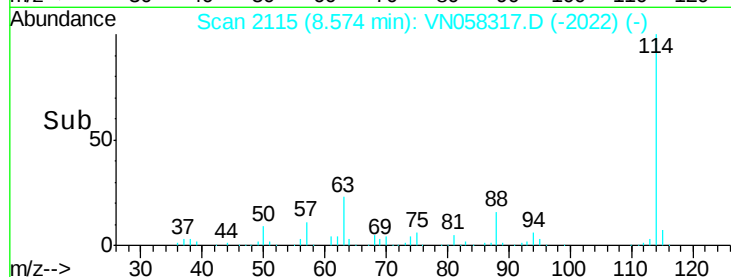
88 16.3 0.0 31.6



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: 52.422 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

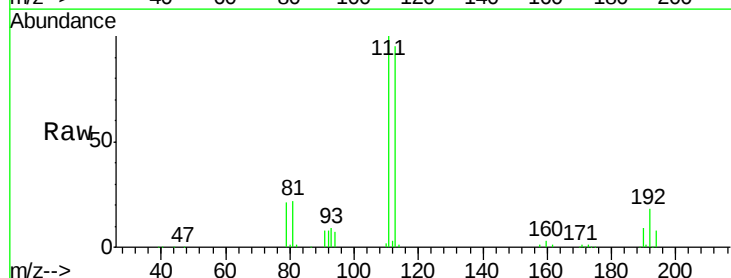
Tgt Ion:113 Resp: 236641

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.6

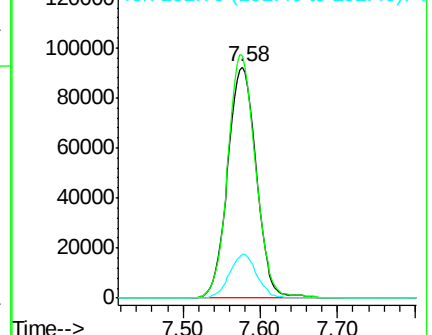
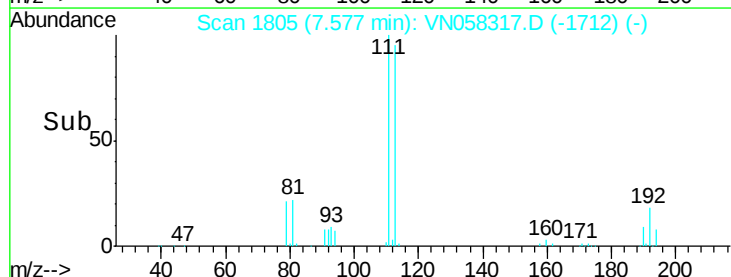
192 18.2 14.5 21.7

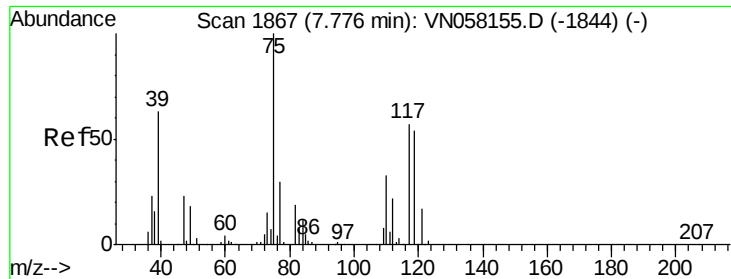


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

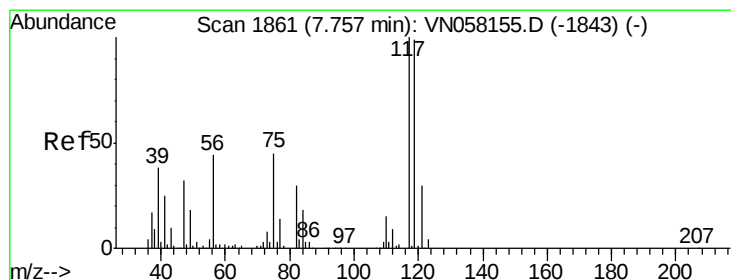
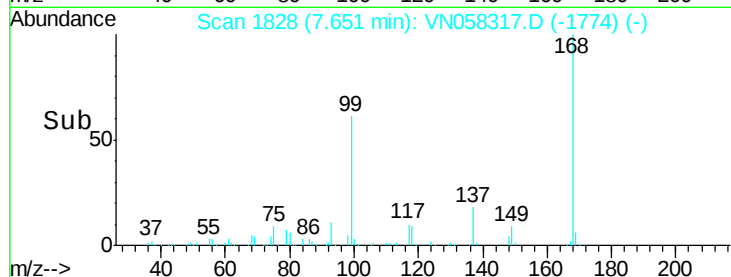
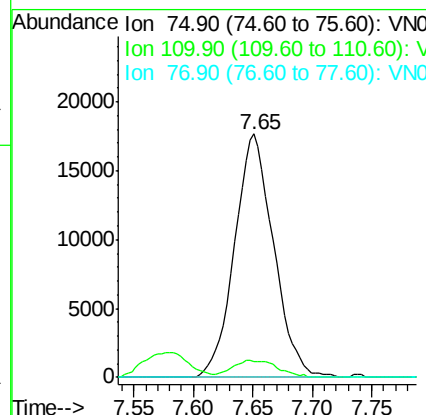
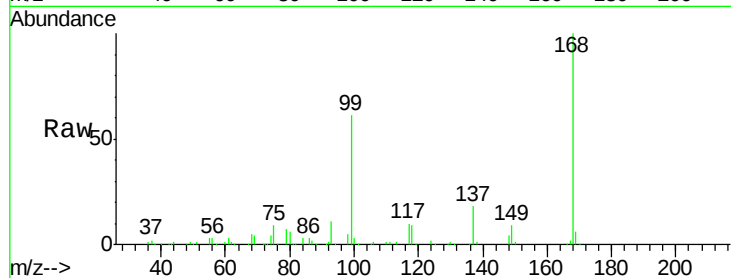




#36
 1,1-Dichloropropene
 Concen: 7.496 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058317.D
 Acq: 24 Sep 2019 1:08

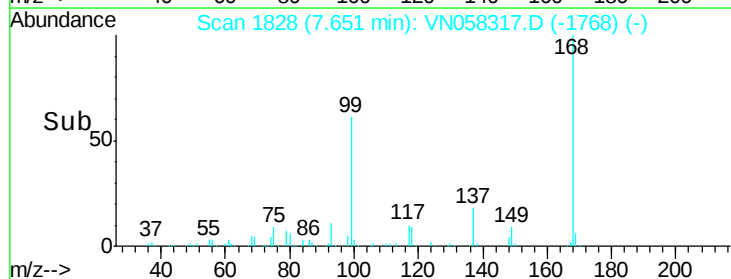
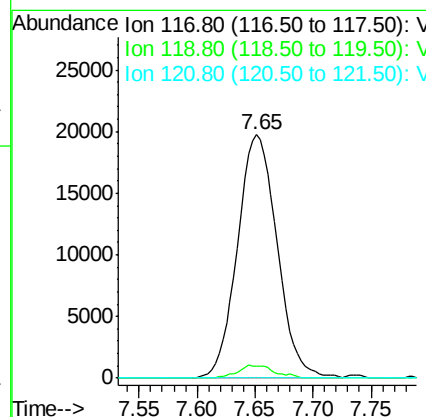
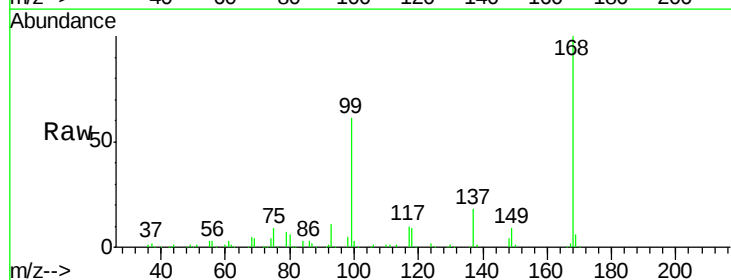
Instrument :
 MSVOA_N
 ClientSampled :
 S49-0519

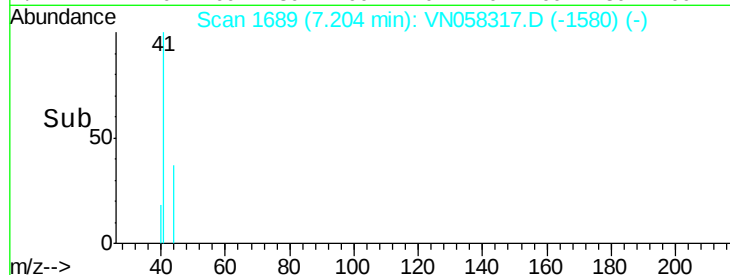
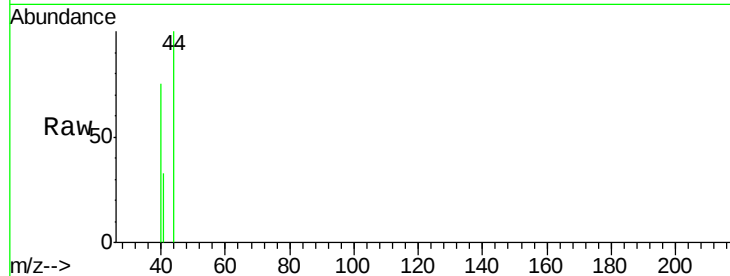
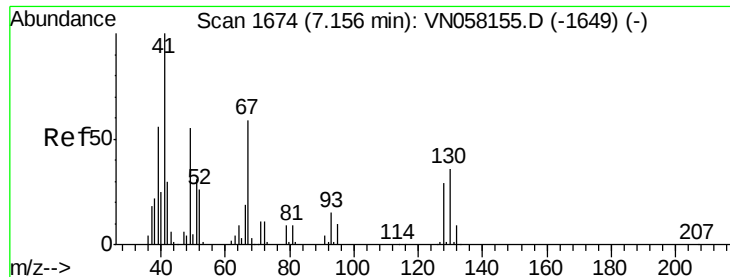
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.726 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058317.D
 Acq: 24 Sep 2019 1:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.6	117.8#
121	0.0	24.1	36.1#

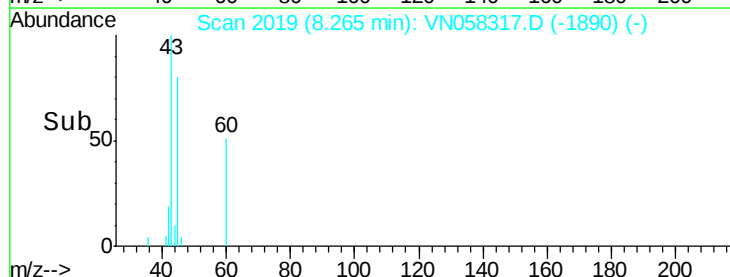
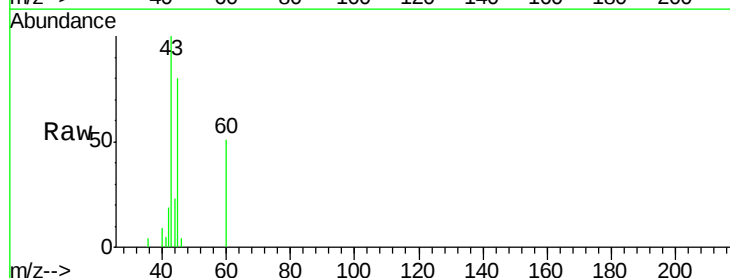
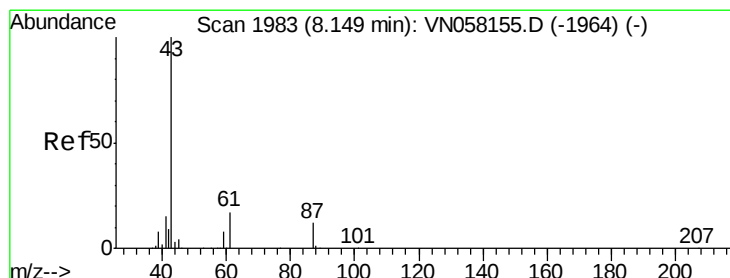
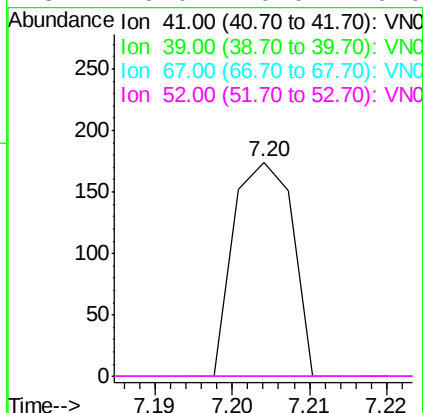




#41
Methacrylonitrile
Concen: 0.943 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.05 min
Lab File: VN058317.D
Acq: 24 Sep 2019 1:08

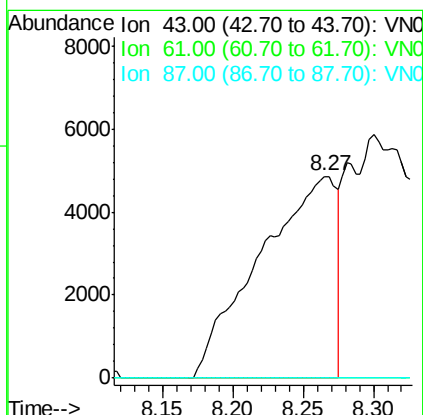
Instrument :
MSVOA_N
ClientSampled :
S49-0519

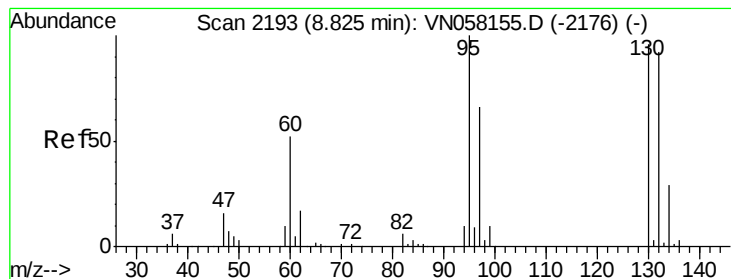
Tot Ion:	41	Resp:	92
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 1.782 ug/l
RT: 8.27 min Scan# 2019
Delta R.T. 0.12 min
Lab File: VN058317.D
Acq: 24 Sep 2019 1:08

Tgt Ion:	43	Resp:	18490
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 4.859 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

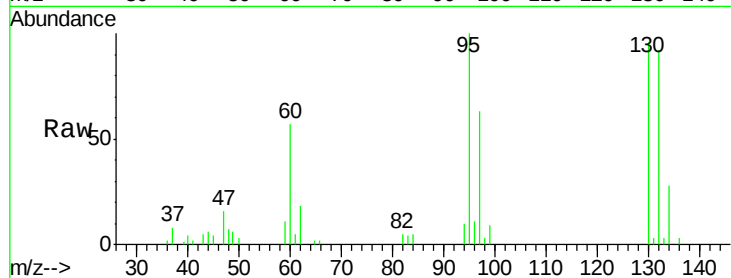
S49-0519

Tot Ion:130 Resp: 19447

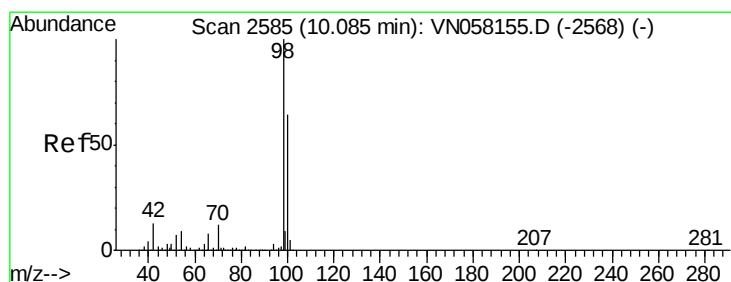
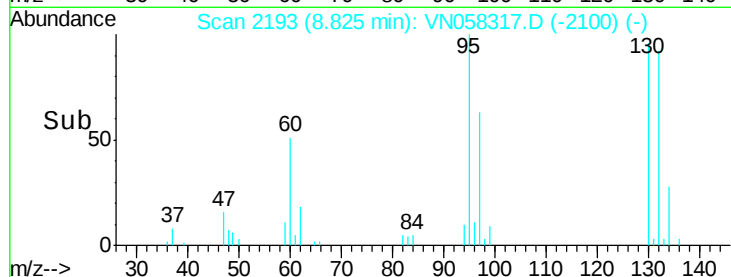
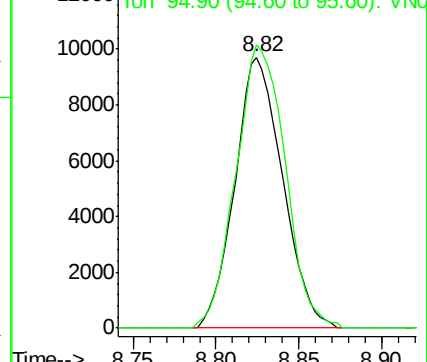
Ion Ratio Lower Upper

130 100

95 104.4 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058317.D (-2100) (-)



#50

Toluene-d8

Concen: 53.607 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058317.D

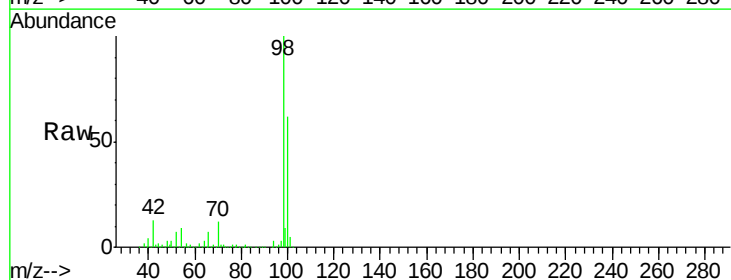
Acq: 24 Sep 2019 1:08

Tgt Ion: 98 Resp: 942840

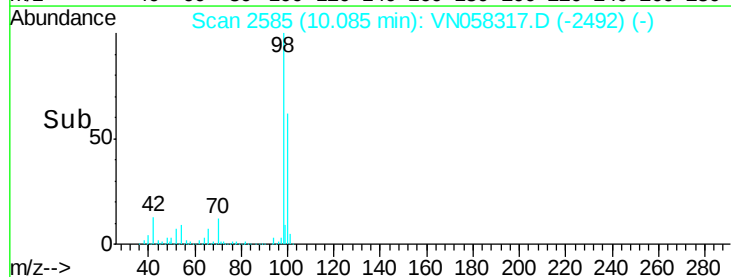
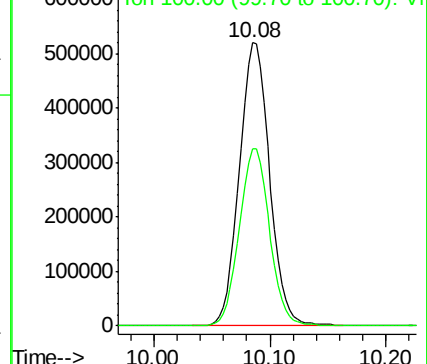
Ion Ratio Lower Upper

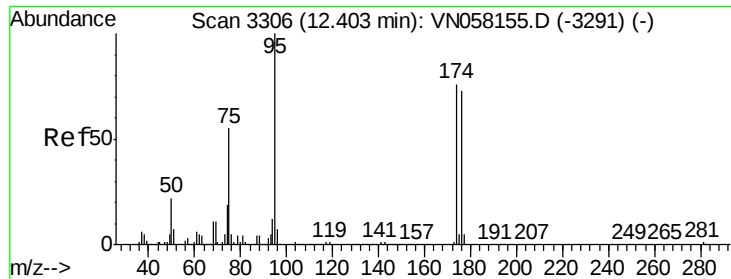
98 100

100 62.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058317.D (-2492) (-)

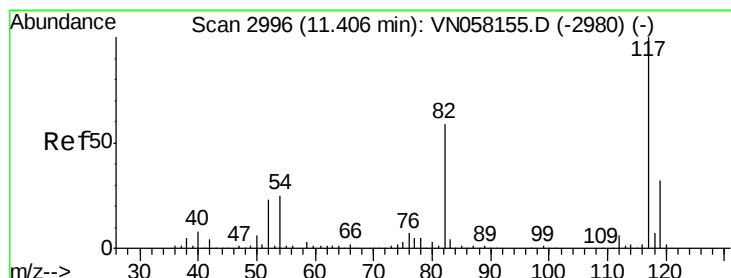
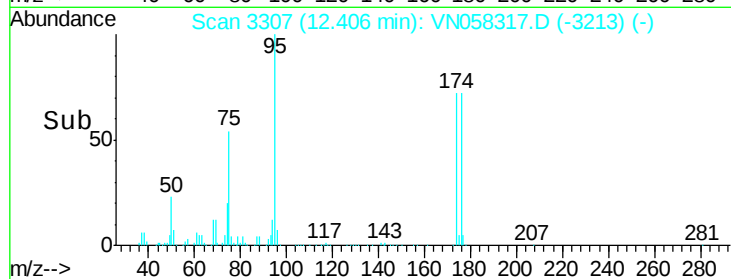
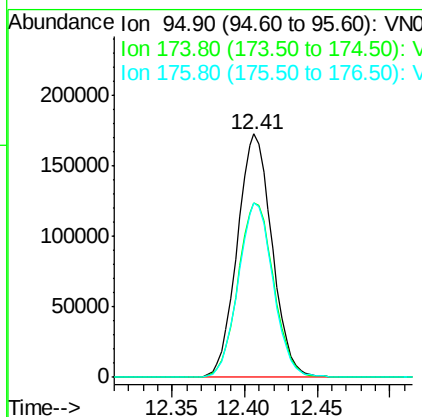
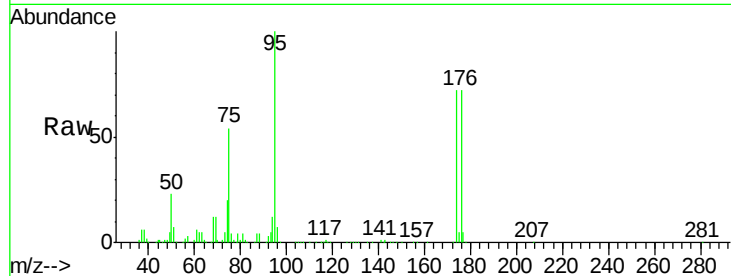




#62
4-Bromofluorobenzene
Concen: 44.063 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058317.D
Acq: 24 Sep 2019 1:08

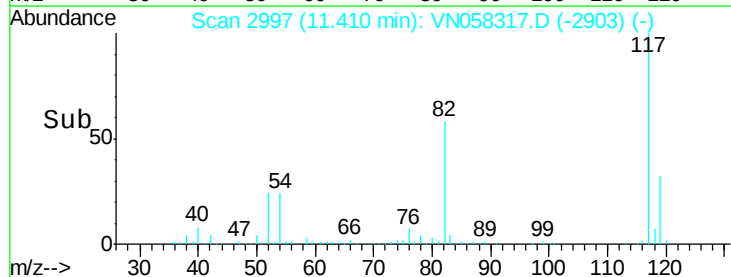
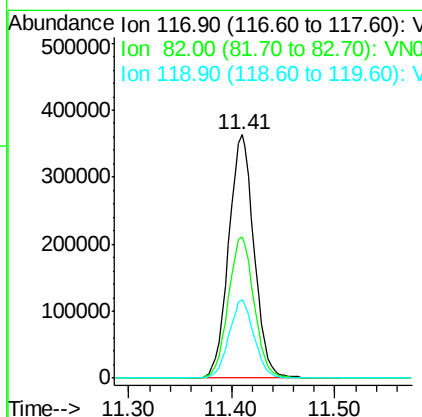
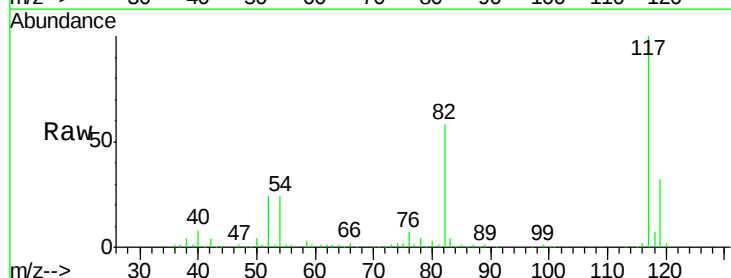
Instrument :
MSVOA_N
ClientSampled :
S49-0519

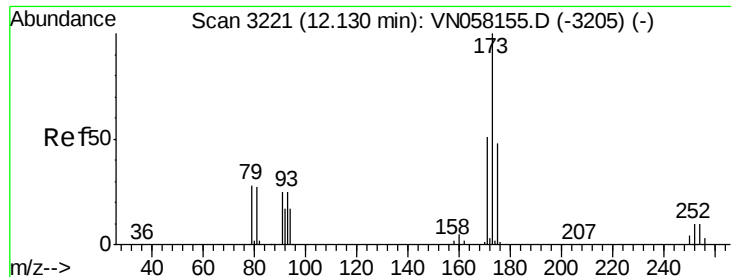
Tot Ion: 95 Resp: 287872
Ion Ratio Lower Upper
95 100
174 73.5 0.0 152.2
176 71.9 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058317.D
Acq: 24 Sep 2019 1:08

Tgt Ion: 117 Resp: 623463
Ion Ratio Lower Upper
117 100
82 58.2 46.9 70.3
119 32.1 25.3 37.9





#71

Bromoform

Concen: 3.686 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

S49-0519

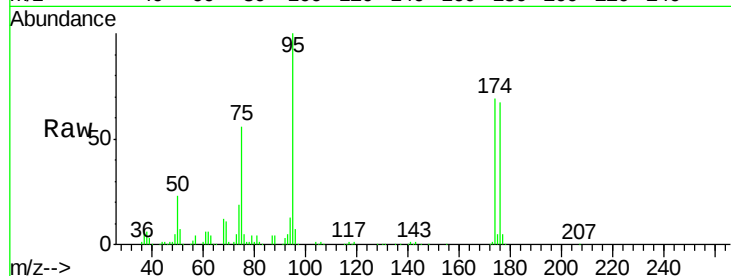
Tot Ion:173 Resp: 289

Ion Ratio Lower Upper

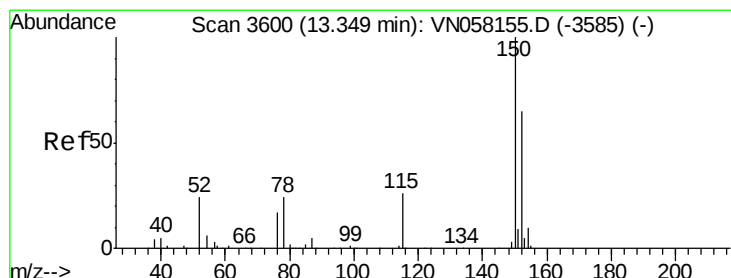
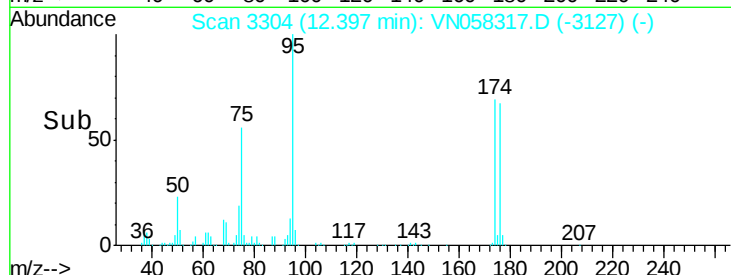
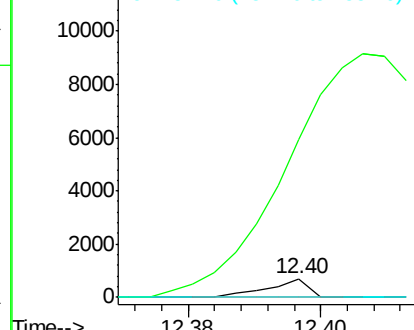
173 100

175 4382.0 24.2 72.6#

254 0.0 0.1 0.1#



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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

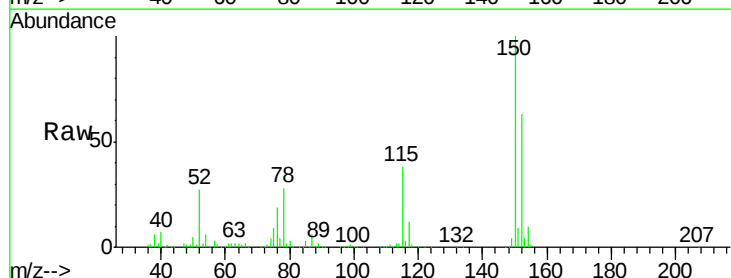
Tgt Ion:152 Resp: 233476

Ion Ratio Lower Upper

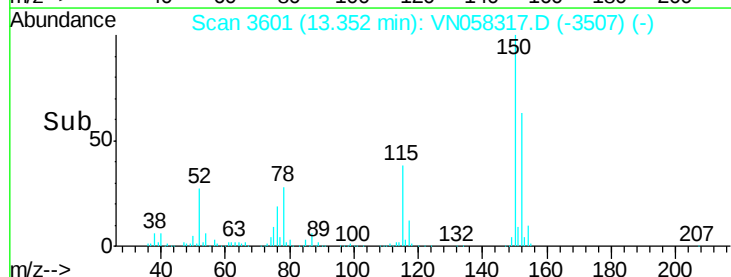
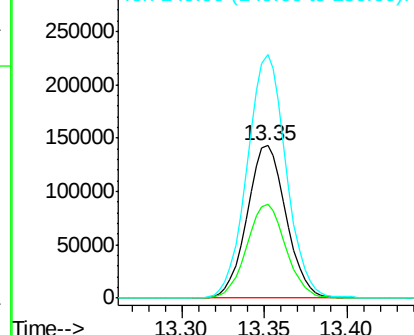
152 100

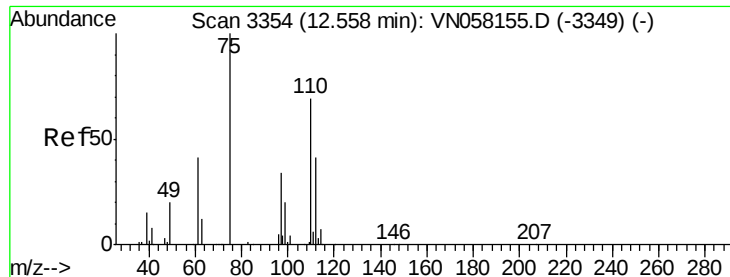
115 61.9 30.1 90.3

150 160.1 0.0 346.4



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





#76

1,2,3-Trichloropropane

Concen: 37.910 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

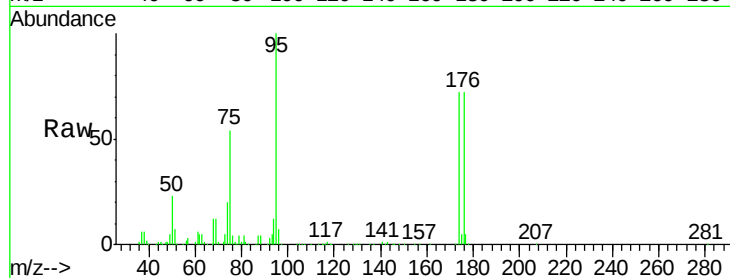
S49-0519

Tot Ion: 75 Resp: 158406

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.41

100000

80000

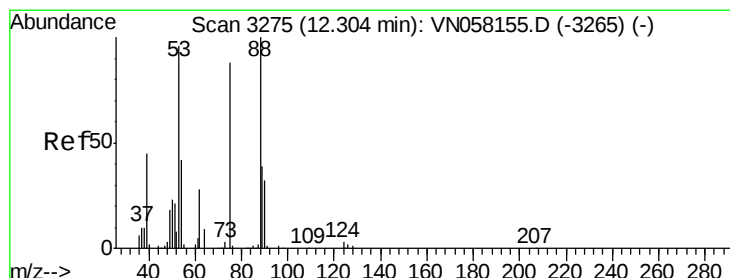
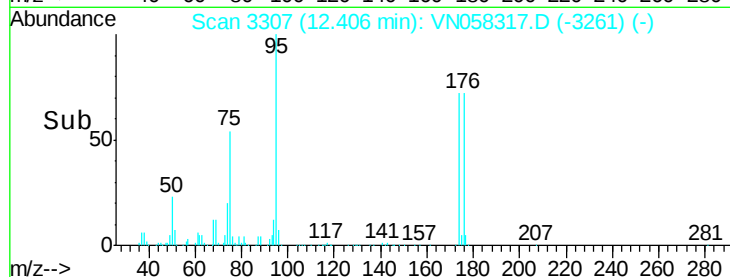
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 105.567 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

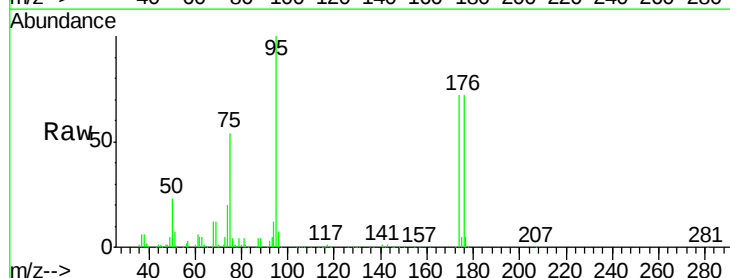
Tgt Ion: 75 Resp: 158406

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.41

120000

100000

80000

60000

40000

20000

0

Time--> 12.30 12.40 12.50

