

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057869.D
 Acq On : 10 Sep 2019 17:46
 Operator : JC/SP
 Sample : K4623-24
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C1-(4)

Quant Time: Sep 11 03:55:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	303259	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	509262	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	469820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	238603	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	325738	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	
35) Dibromofluoromethane	7.58	113	224130	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	923154	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.40	95	294785	42.39	ug/l	0.00
Spiked Amount			Recovery	=	84.78%	

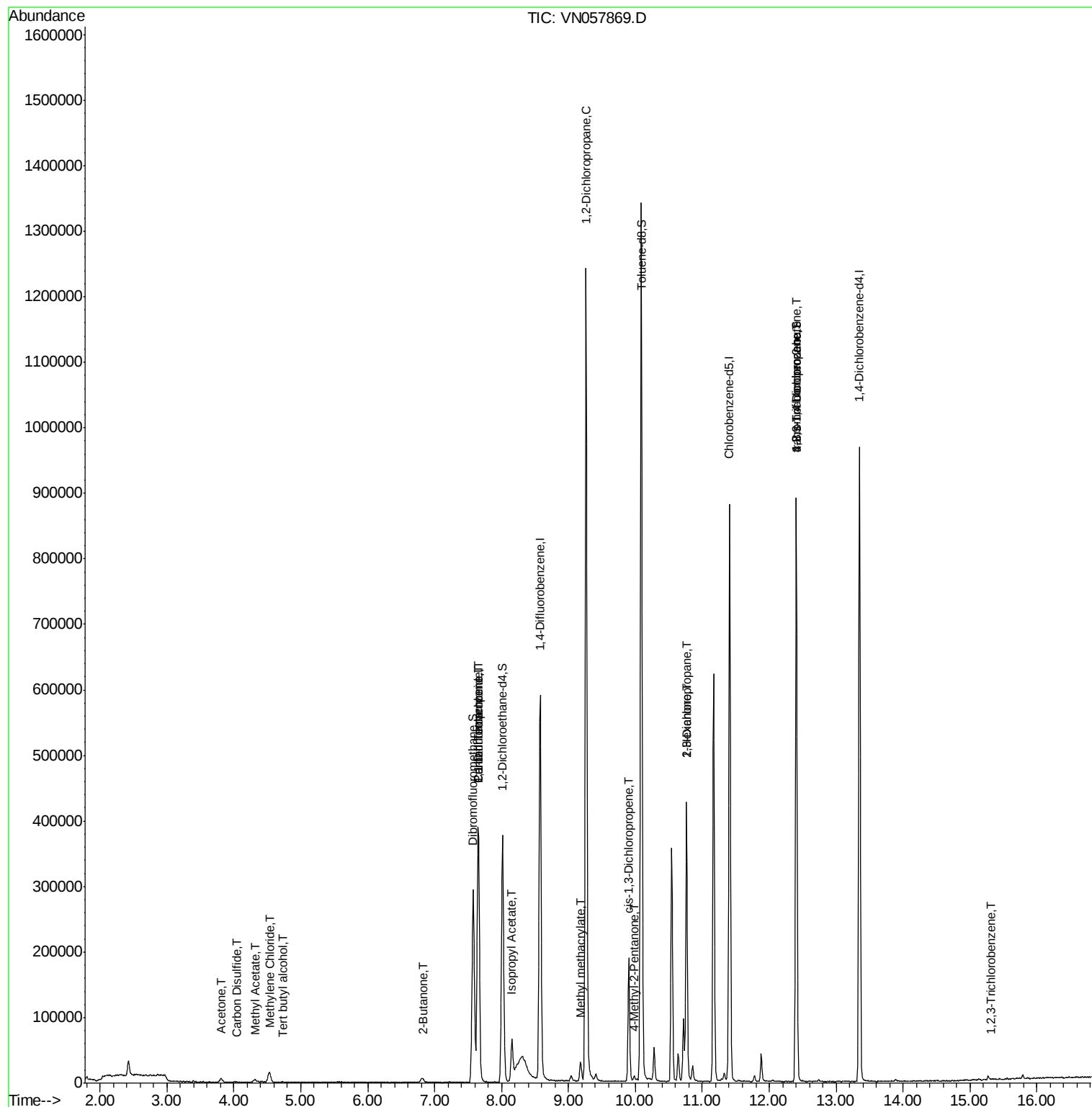
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.52	94	60	Below Cal	#	2
11) Tert butyl alcohol	4.73	59	451	0.607	ug/l #	72
16) Acetone	3.81	43	9238	4.588	ug/l	96
17) Carbon Disulfide	4.03	76	896	0.336	ug/l #	75
18) Methyl Acetate	4.32	43	7593	1.414	ug/l #	84
20) Methylene Chloride	4.53	84	10479	1.541	ug/l	95
25) 2-Butanone	6.83	43	620	0.213	ug/l #	49
31) Cyclohexane	7.65	56	7933	Below Cal	#	19
36) 1,1-Dichloropropene	7.65	75	25709	4.353	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31114	5.770	ug/l #	17
43) Isopropyl Acetate	8.16	43	79038	7.702	ug/l #	90
45) 1,2-Dichloropropane	9.27	63	1590	0.307	ug/l #	44
48) Methyl methacrylate	9.18	41	5670	1.089	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	5832	0.960	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	31499	4.339	ug/l #	66
57) 1,3-Dichloropropane	10.77	76	3901	0.477	ug/l #	43
59) 2-Hexanone	10.76	43	63068	13.856	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	164063	30.395	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	164063	106.962	ug/l #	6
95) Naphthalene	15.14	128	1376	Below Cal		96
96) 1,2,3-Trichlorobenzene	15.31	180	363	1.072	ug/l #	81

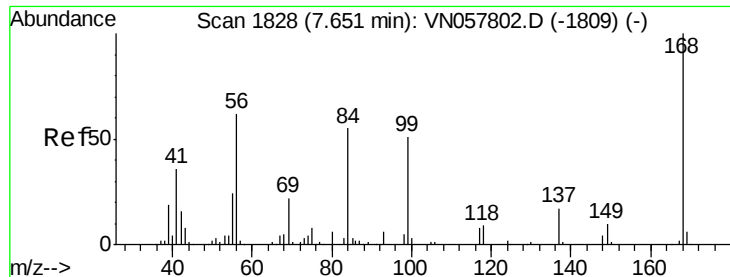
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

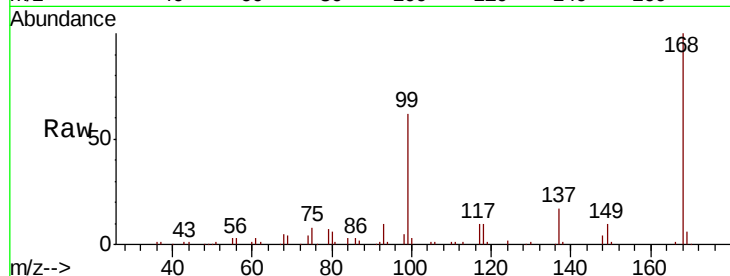
PAR-11-C1-(4)

Tgt Ion: 168 Resp: 303259

Ion Ratio Lower Upper

168 100

99 61.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

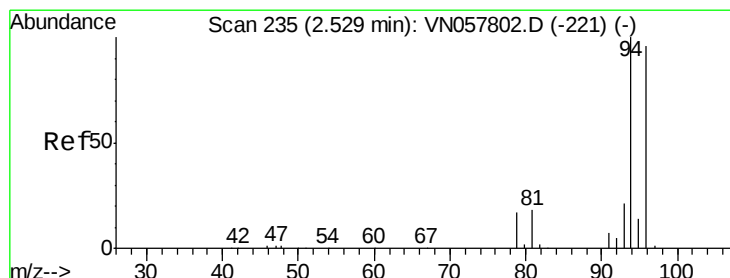
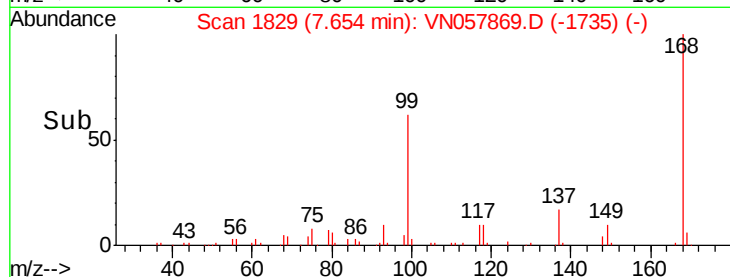
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN057869.D

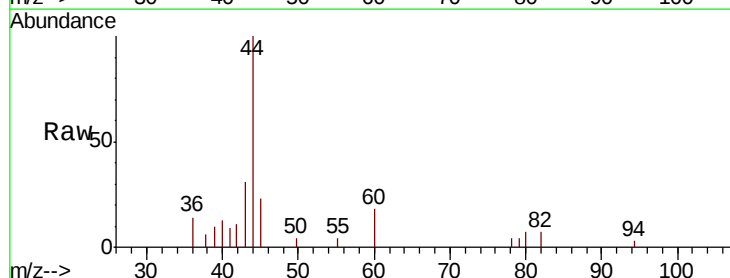
Acq: 10 Sep 2019 17:46

Tgt Ion: 94 Resp: 60

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.52

200

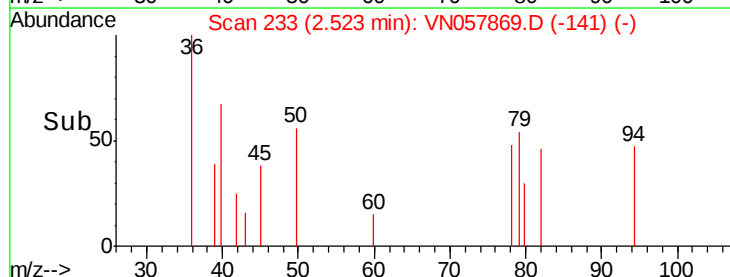
150

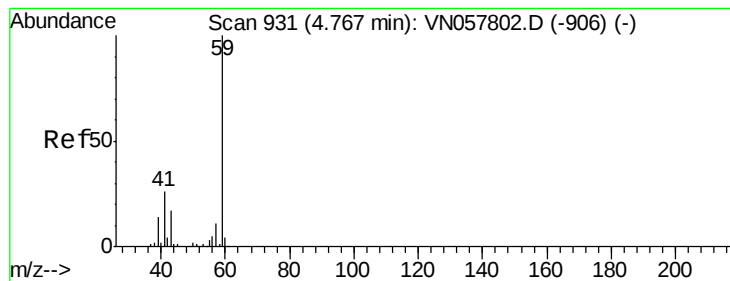
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 0.607 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

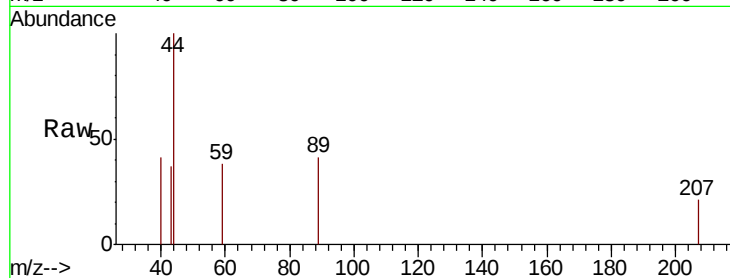
PAR-11-C1-(4)

Tgt Ion: 59 Resp: 451

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

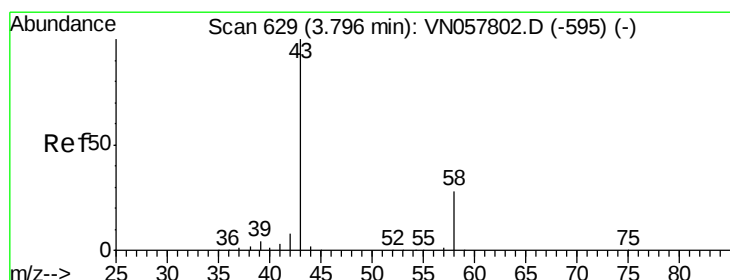
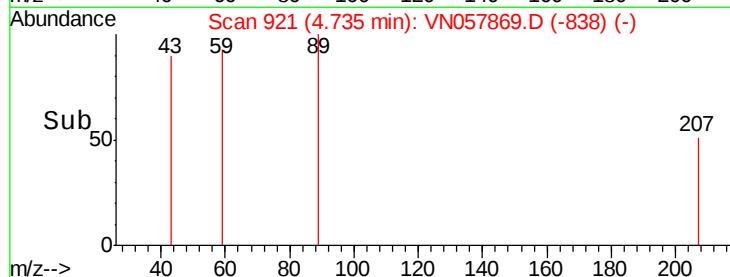
300

200

100

0

Time-->



#16

Acetone

Concen: 4.588 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057869.D

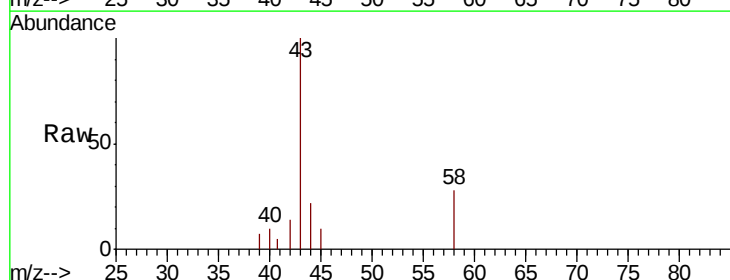
Acq: 10 Sep 2019 17:46

Tgt Ion: 43 Resp: 9238

Ion Ratio Lower Upper

43 100

58 29.9 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

4000

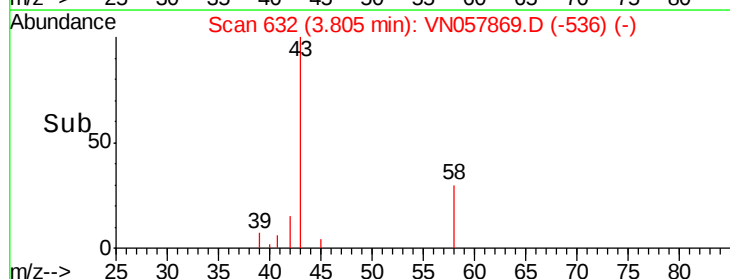
3000

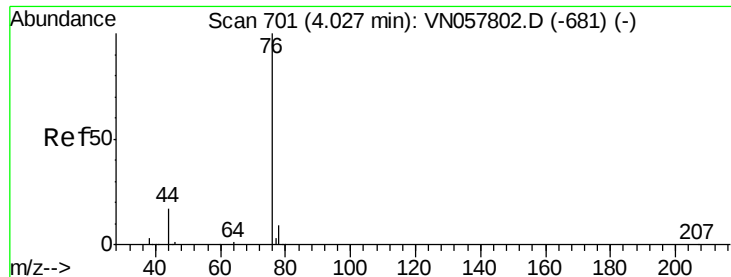
2000

1000

0

Time-->

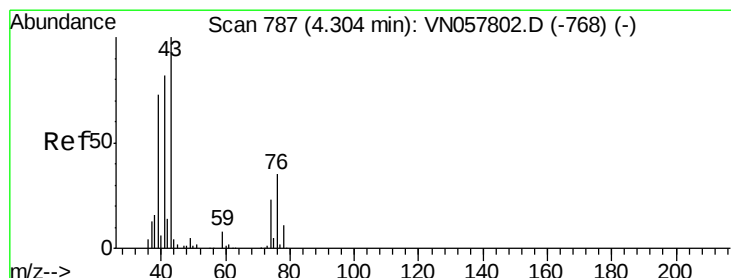
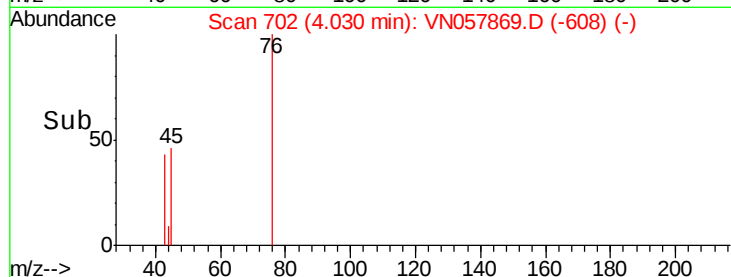
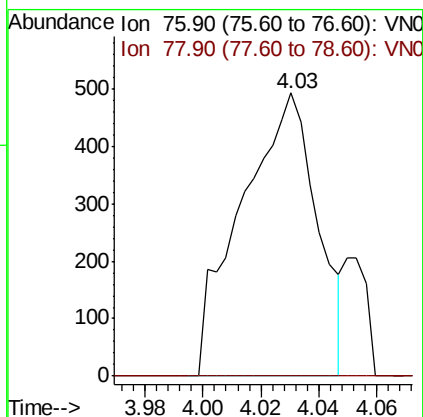
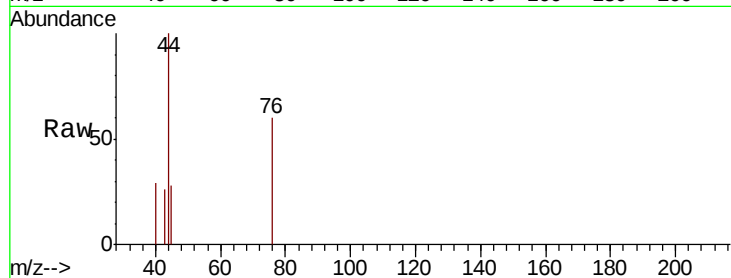




#17
Carbon Disulfide
Concen: 0.336 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN057869.D
Acq: 10 Sep 2019 17:46

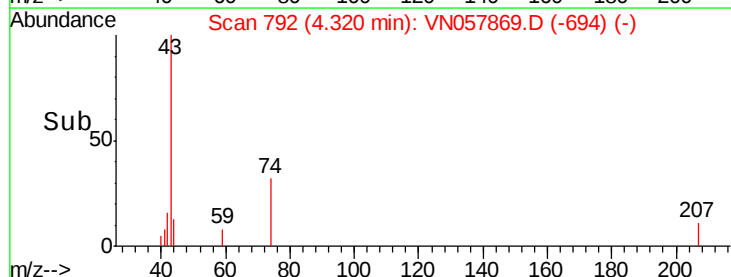
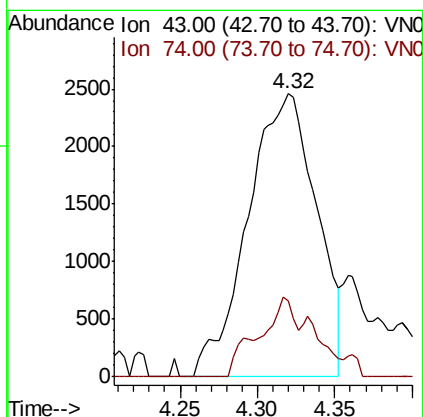
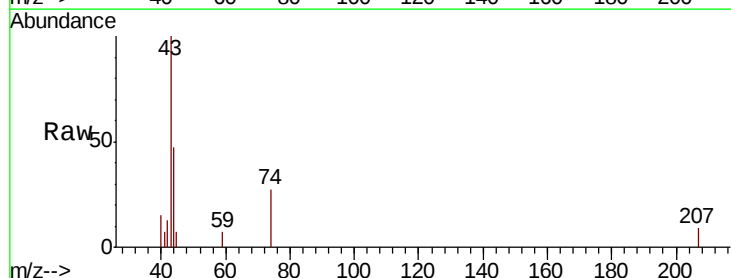
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C1-(4)

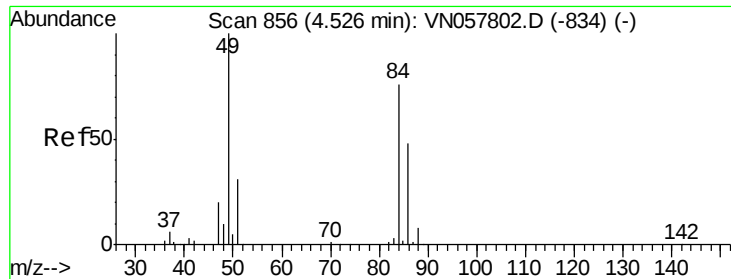
Tgt Ion: 76 Resp: 896
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 1.414 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057869.D
Acq: 10 Sep 2019 17:46

Tgt Ion: 43 Resp: 7593
Ion Ratio Lower Upper
43 100
74 14.8 17.9 26.9#

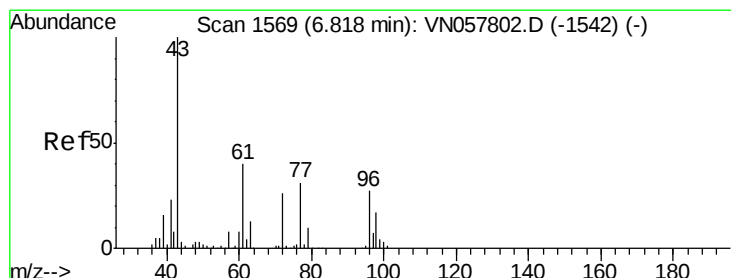
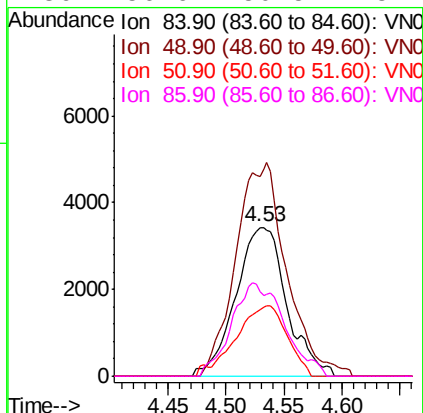
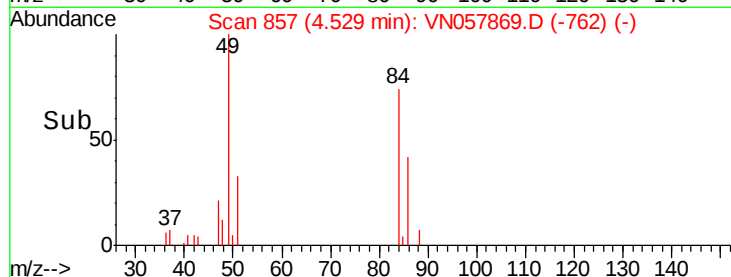
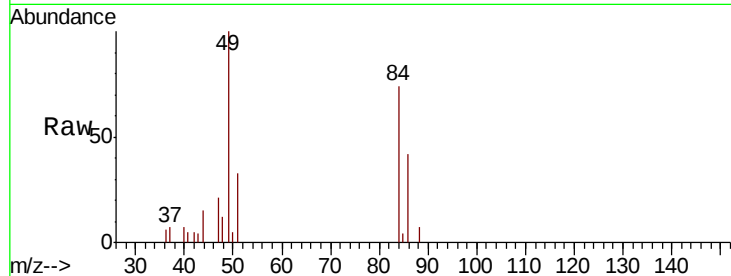




#20
Methylene Chloride
Concen: 1.541 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057869.D
Acq: 10 Sep 2019 17:46

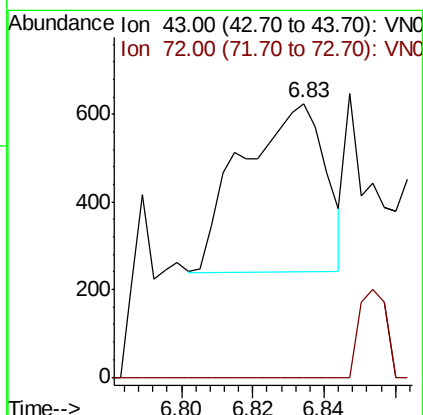
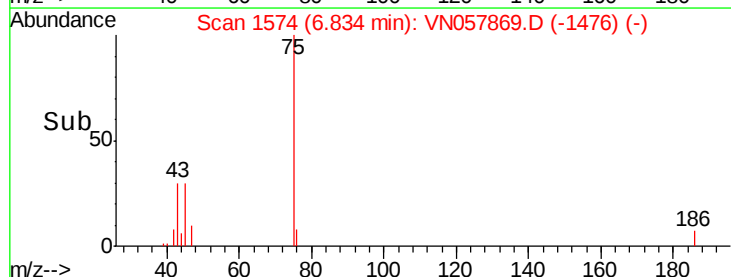
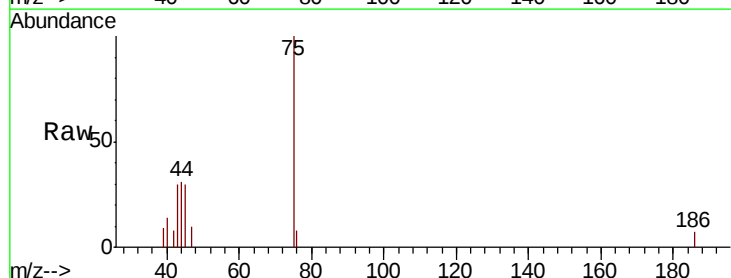
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C1-(4)

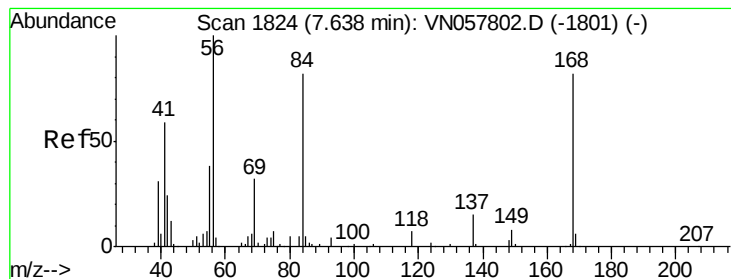
Tgt Ion: 84 Resp: 10479
Ion Ratio Lower Upper
84 100
49 134.4 104.8 157.2
51 44.9 33.0 49.4
86 56.6 50.5 75.7



#25
2-Butanone
Concen: 0.213 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN057869.D
Acq: 10 Sep 2019 17:46

Tgt Ion: 43 Resp: 620
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C1-(4)

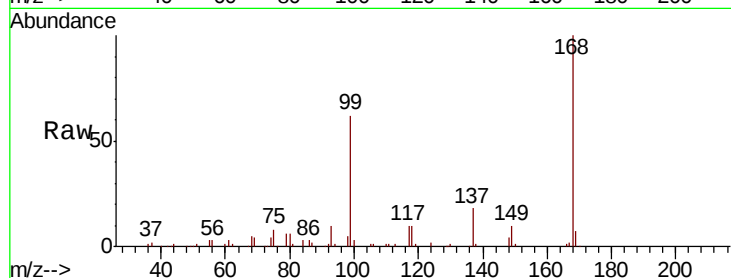
Tgt Ion: 56 Resp: 7933

Ion Ratio Lower Upper

56 100

69 155.5 25.9 38.9#

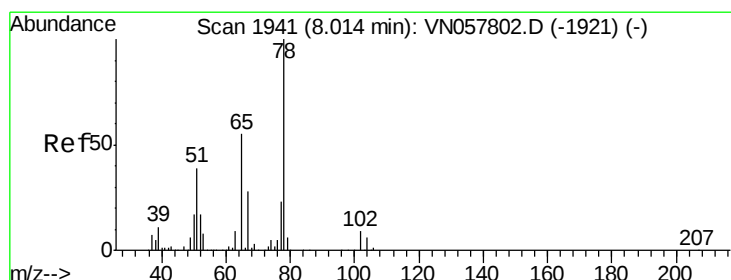
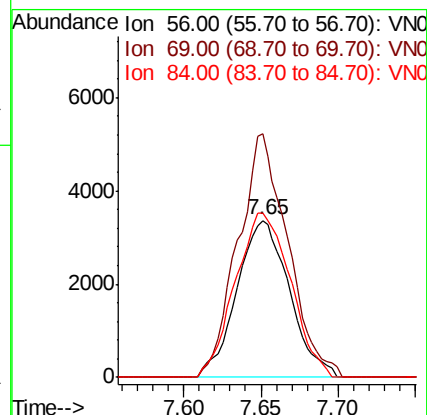
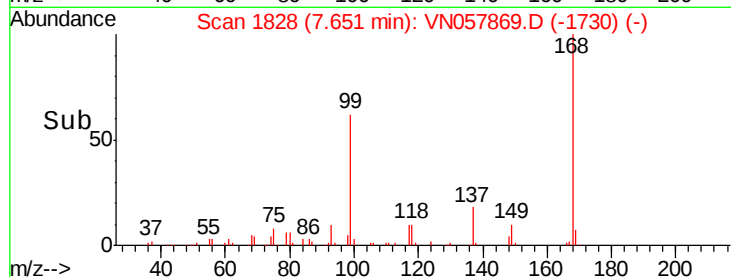
84 105.1 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN057802.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN057802.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN057802.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.032 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057869.D

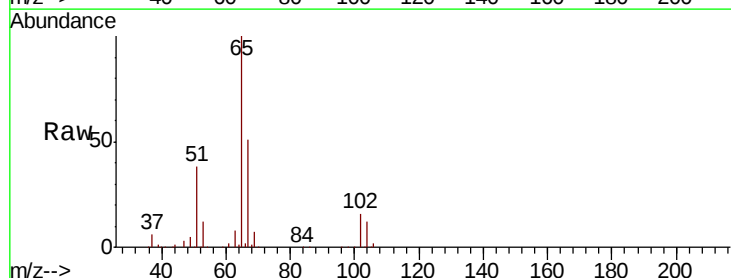
Acq: 10 Sep 2019 17:46

Tgt Ion: 65 Resp: 325738

Ion Ratio Lower Upper

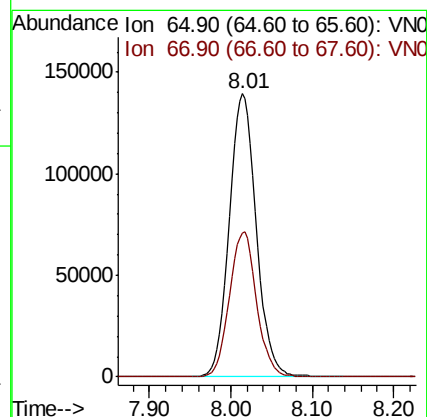
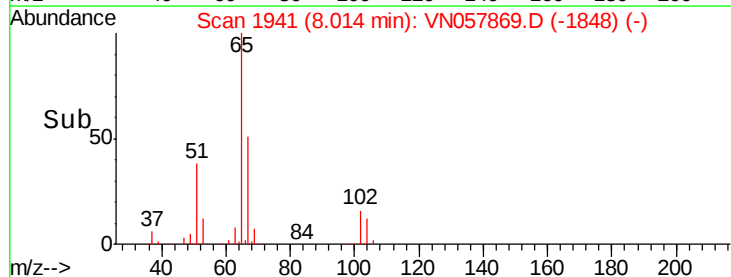
65 100

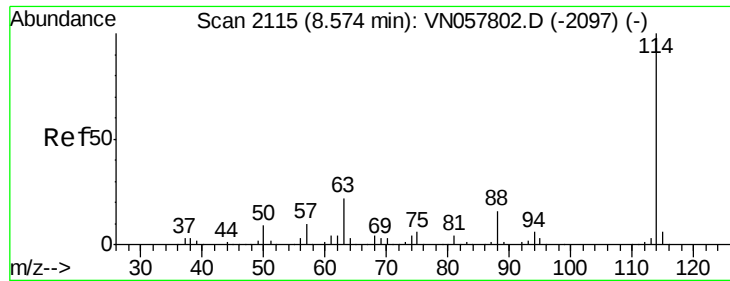
67 51.5 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

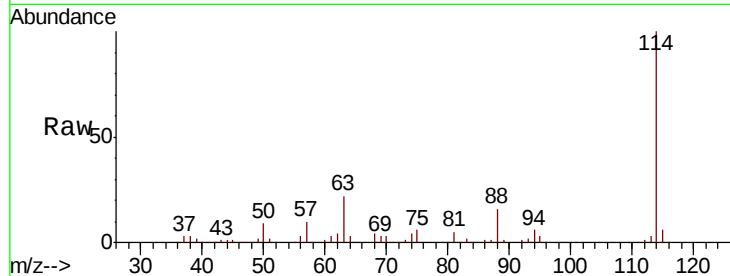




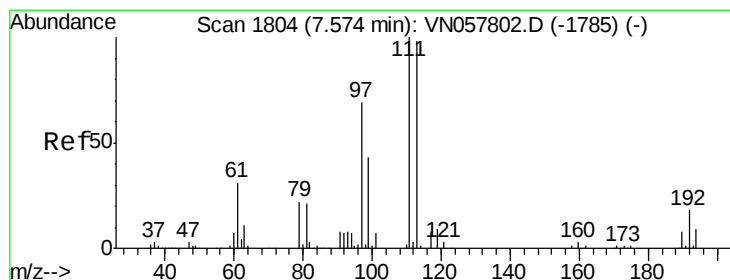
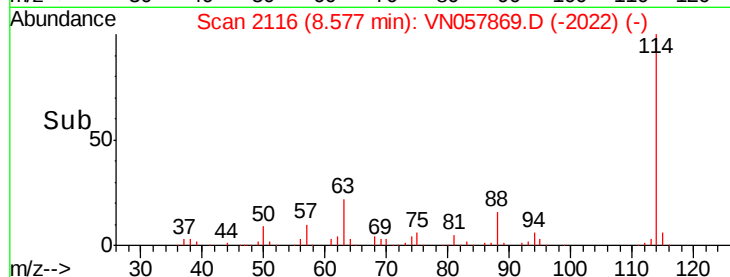
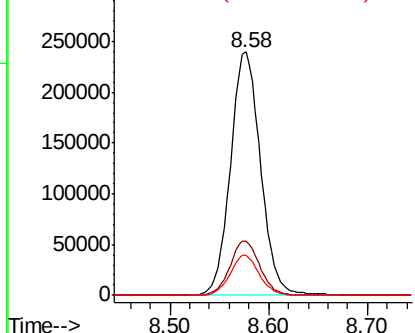
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

Instrument :
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Tgt Ion:114 Resp: 509262
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 16.5 0.0 31.4

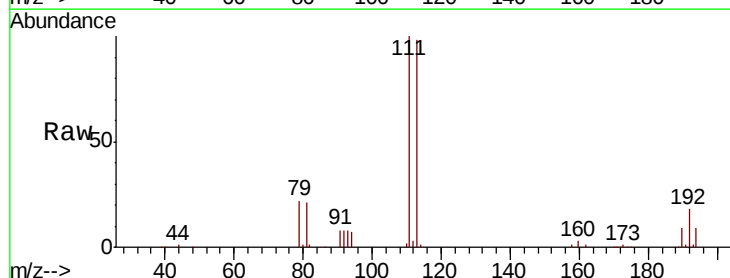


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

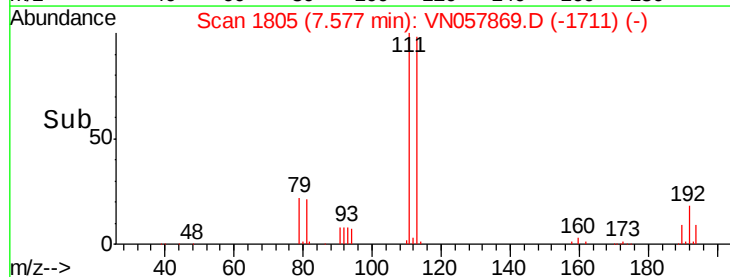
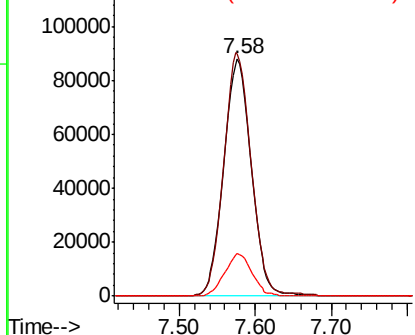


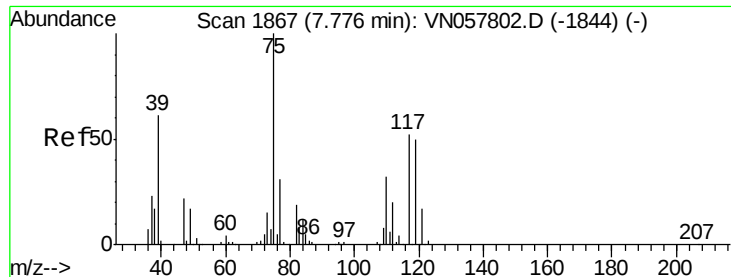
#35
 Dibromofluoromethane
 Concen: 47.684 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

Tgt Ion:113 Resp: 224130
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.3 121.9
 192 17.7 14.6 22.0



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

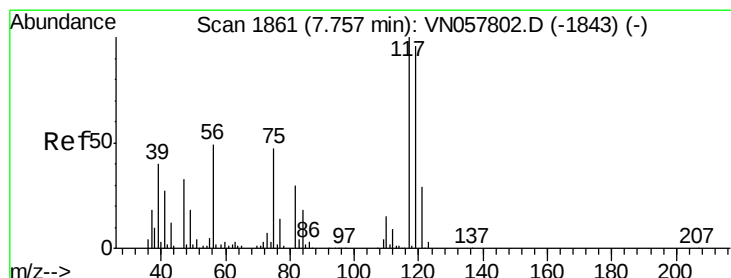
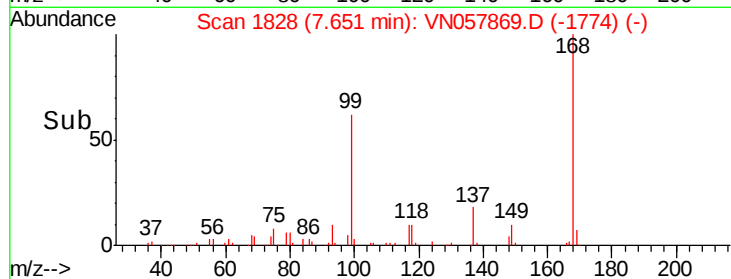
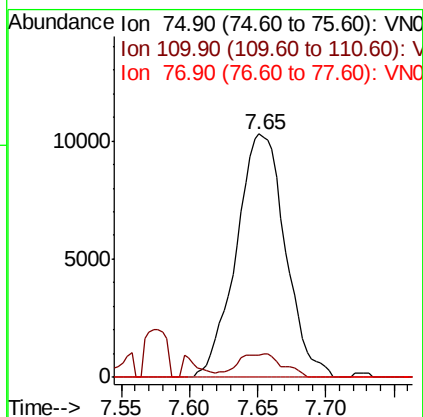
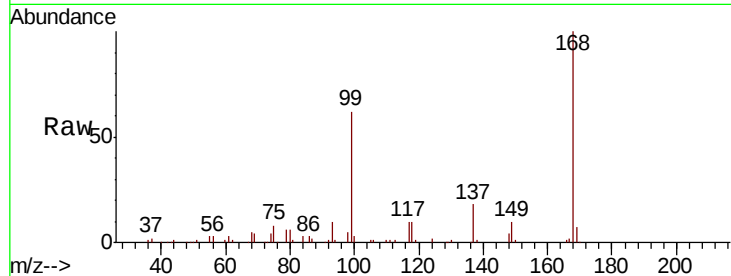




#36
 1,1-Dichloropropene
 Concen: 4.353 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

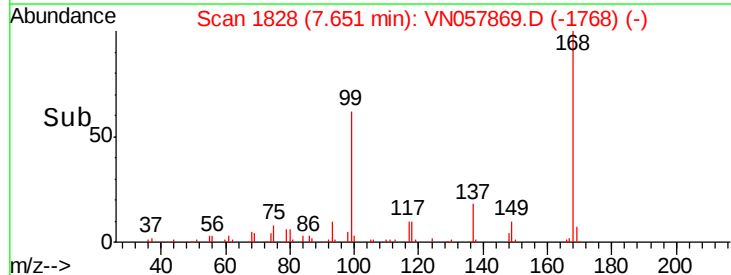
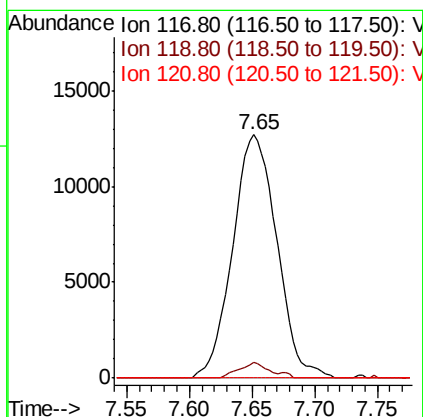
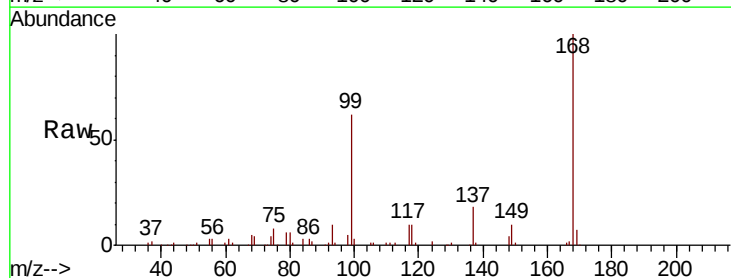
Instrument :
 MSVOA_N
 ClientSampled :
 PAR-11-C1-(4)

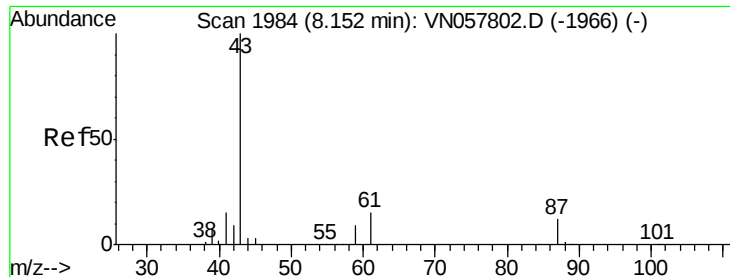
Tgt Ion: 75 Resp: 25709
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.770 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

Tgt Ion: 117 Resp: 31114
 Ion Ratio Lower Upper
 117 100
 119 6.4 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 7.702 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C1-(4)

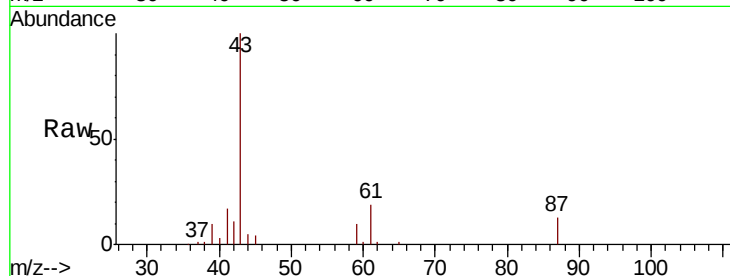
Tgt Ion: 43 Resp: 79038

Ion Ratio Lower Upper

43 100

61 18.0 20.1 30.1#

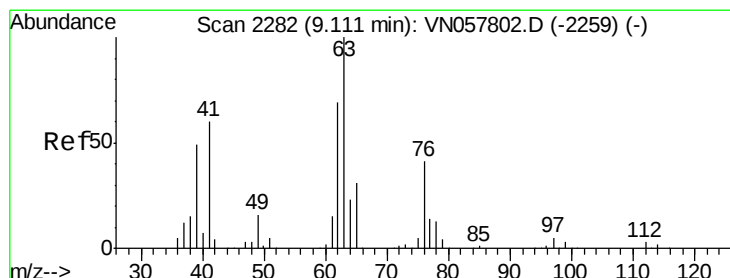
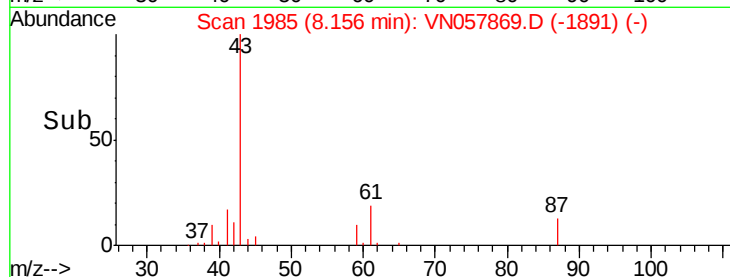
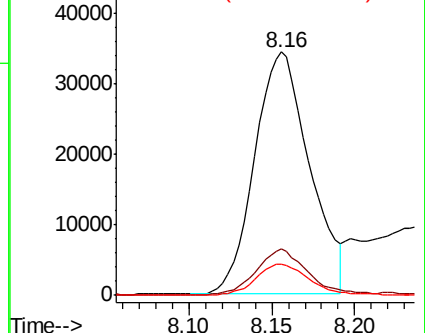
87 12.5 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.307 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN057869.D

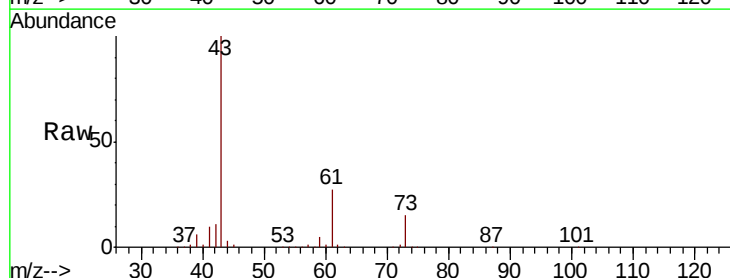
Acq: 10 Sep 2019 17:46

Tgt Ion: 63 Resp: 1590

Ion Ratio Lower Upper

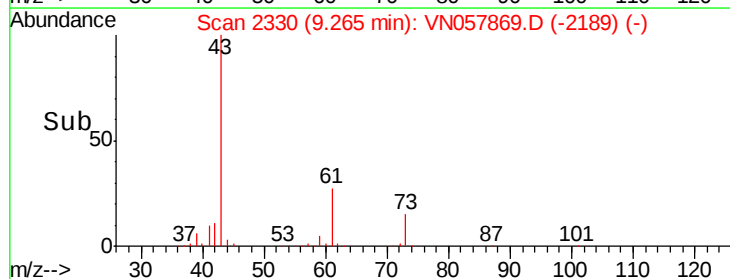
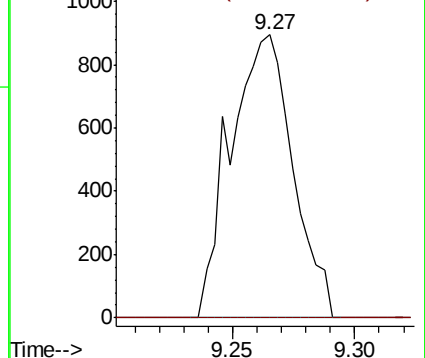
63 100

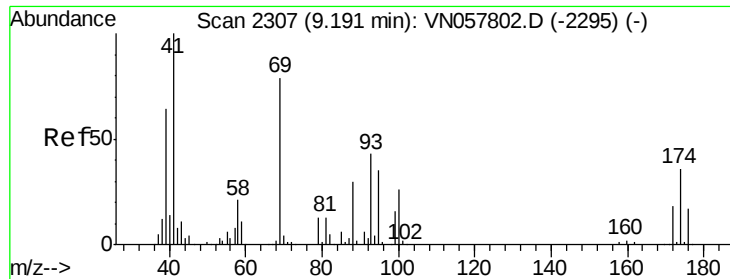
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN057869.D (-2189) (-)

Ion 64.90 (64.60 to 65.60): VN057869.D (-2189) (-)

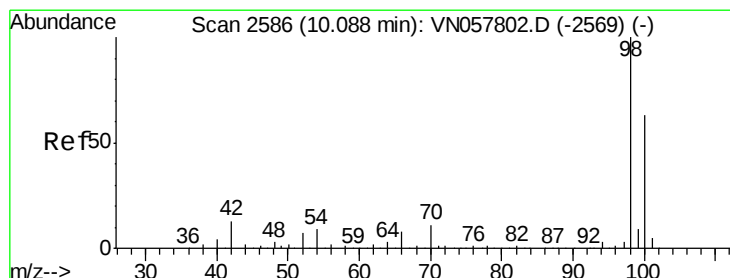
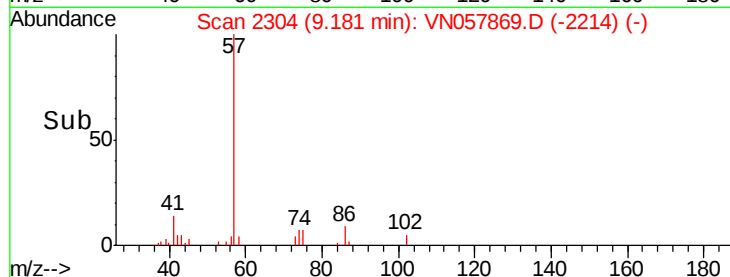
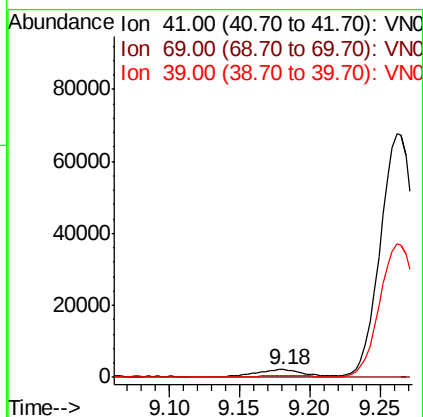
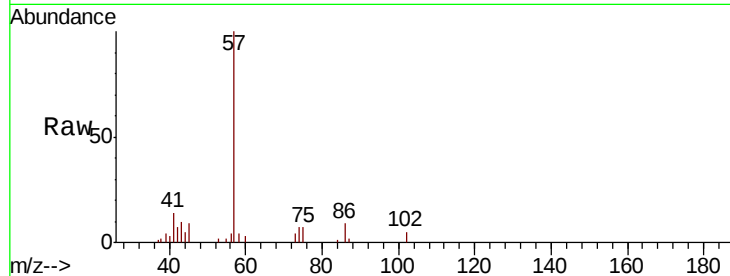




#48
Methyl methacrylate
Concen: 1.089 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN057869.D
Acq: 10 Sep 2019 17:46

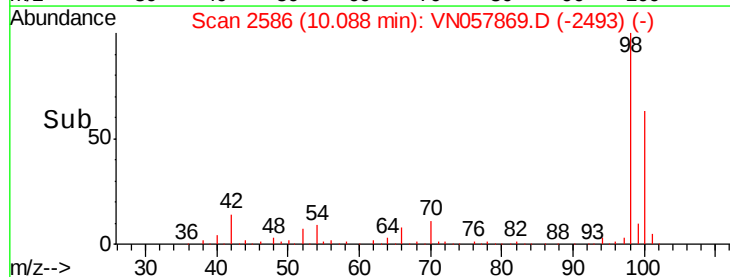
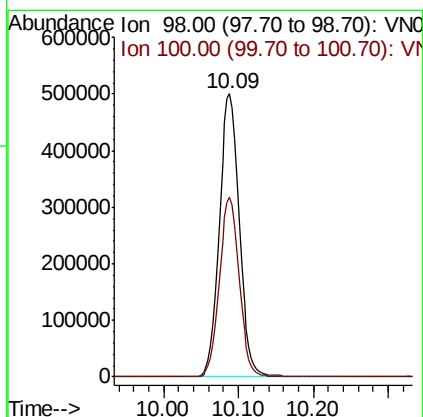
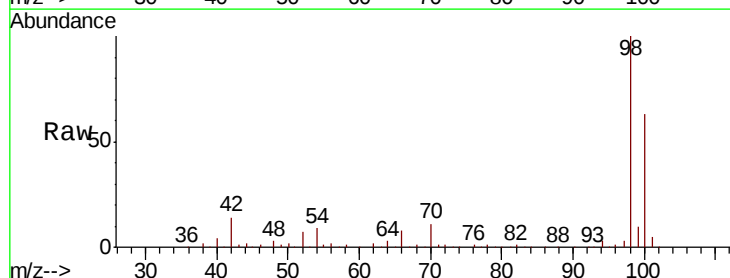
Instrument :
MSVOA_N
ClientSampled :
PAR-11-C1-(4)

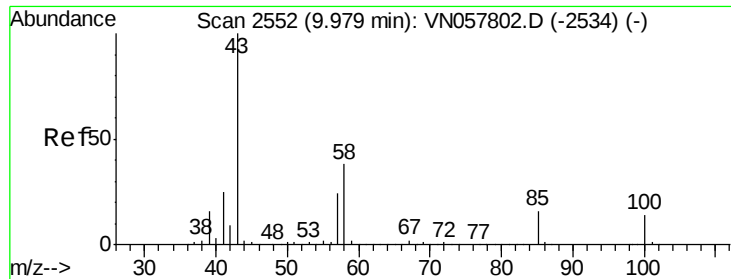
Tgt Ion: 41 Resp: 5670
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 50.586 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057869.D
Acq: 10 Sep 2019 17:46

Tgt Ion: 98 Resp: 923154
Ion Ratio Lower Upper
98 100
100 63.0 50.3 75.5

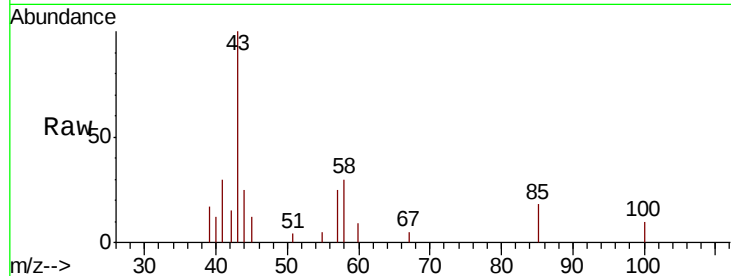




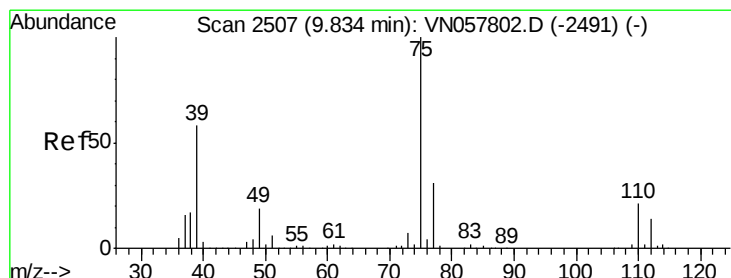
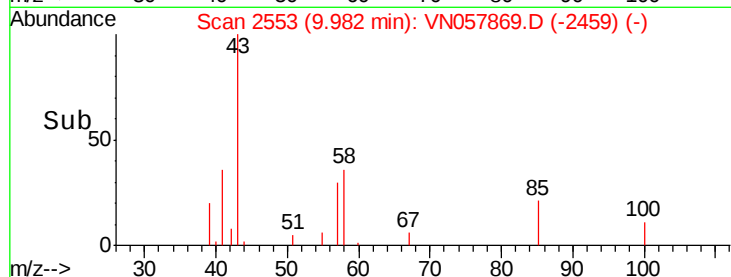
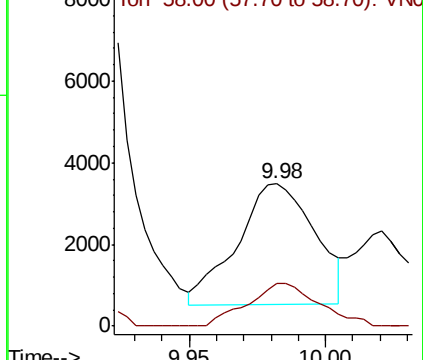
#51
 4-Methyl-2-Pentanone
 Concen: 0.960 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. 0.00 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C1-(4)

Tgt Ion: 43 Resp: 5832
 Ion Ratio Lower Upper
 43 100
 58 32.6 29.8 44.6

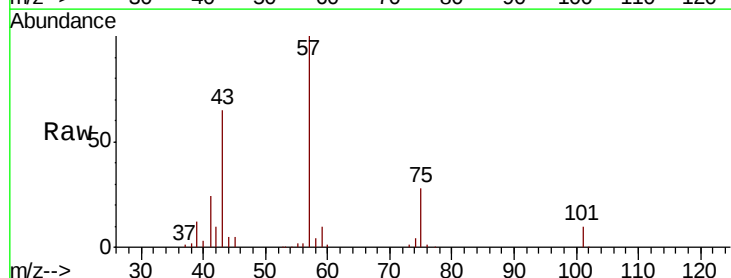


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

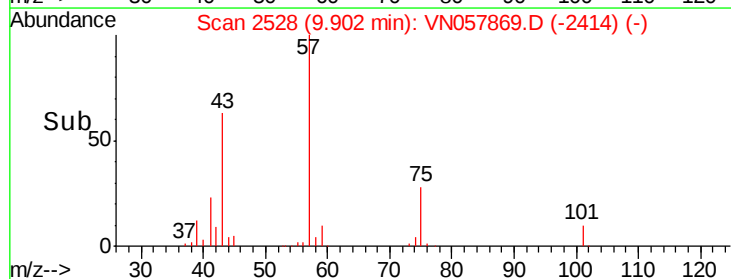
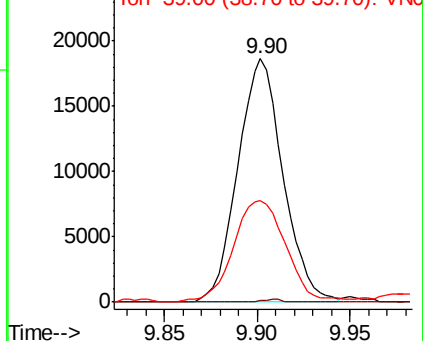


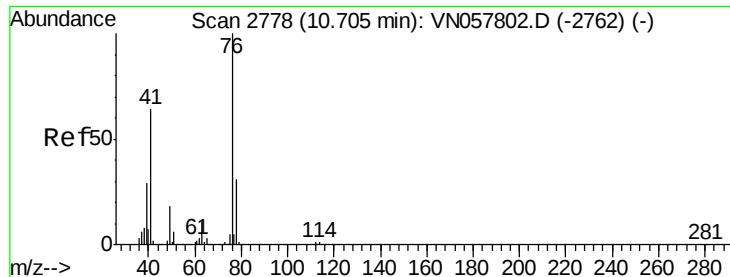
#54
 cis-1,3-Dichloropropene
 Concen: 4.339 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

Tgt Ion: 75 Resp: 31499
 Ion Ratio Lower Upper
 75 100
 77 0.9 24.8 37.2#
 39 40.5 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

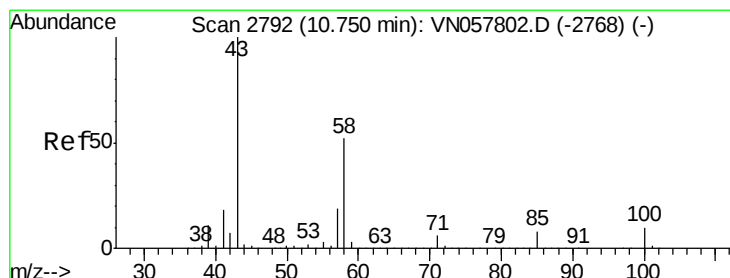
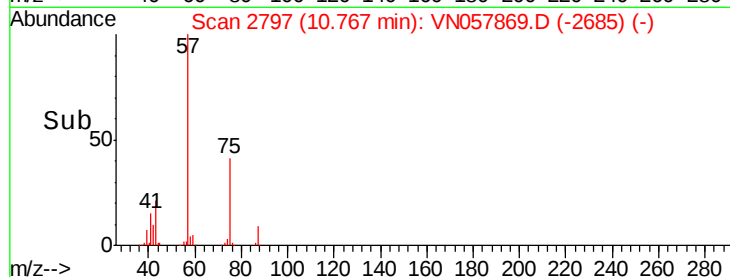
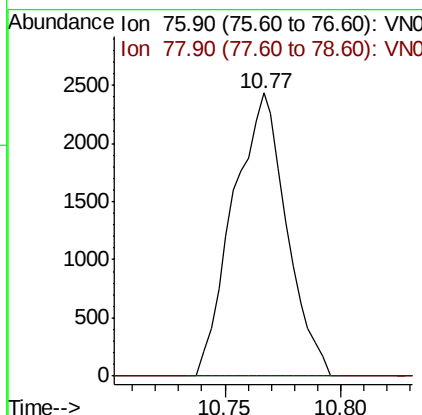
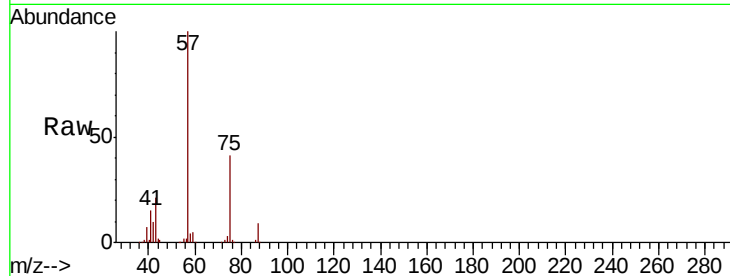




#57
 1,3-Dichloropropane
 Concen: 0.477 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

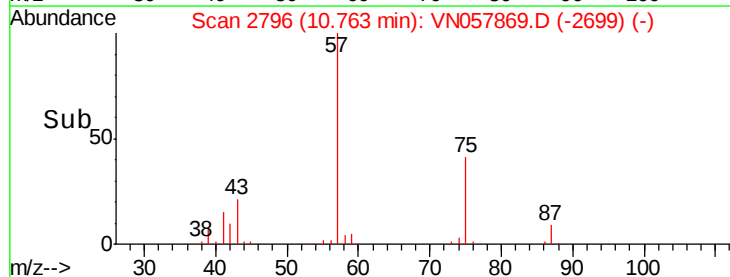
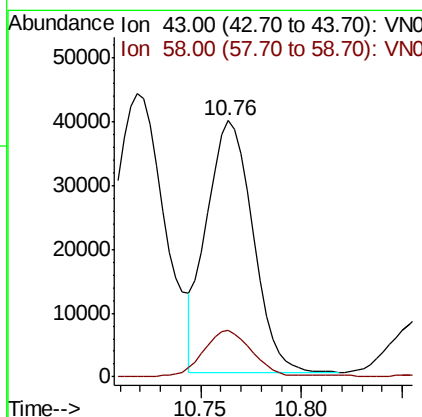
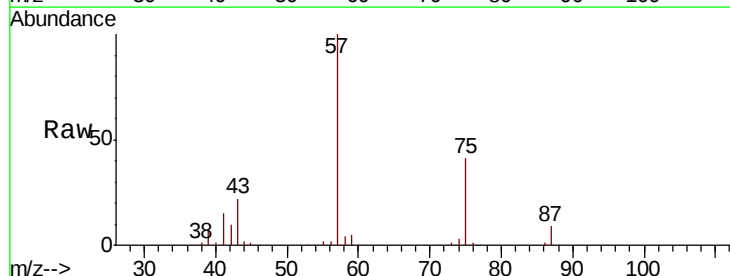
Instrument :
 MSVOA_N
 ClientSampled :
 PAR-11-C1-(4)

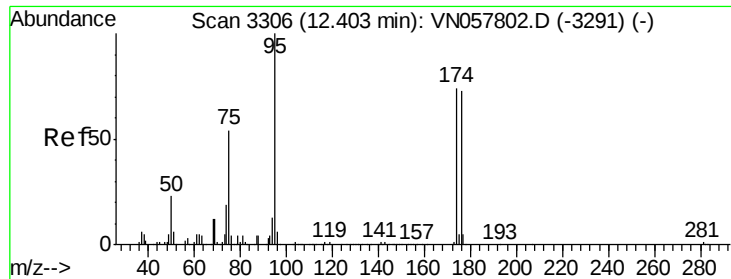
Tgt Ion: 76 Resp: 3901
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 13.856 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

Tgt Ion: 43 Resp: 63068
 Ion Ratio Lower Upper
 43 100
 58 20.0 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 42.388 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C1-(4)

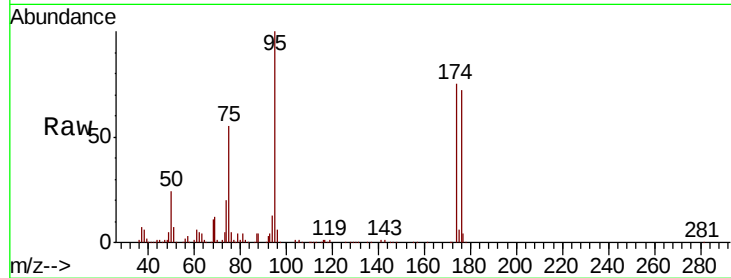
Tgt Ion: 95 Resp: 294785

Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.2

176 72.4 0.0 146.0

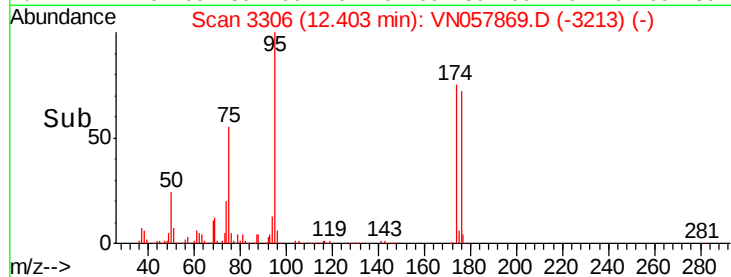


Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

Time--> 12.30 12.40 12.50

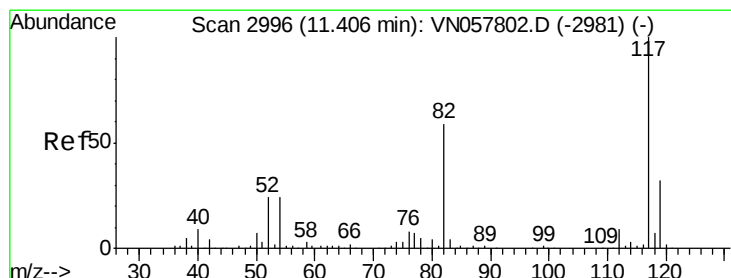


Abundance Ion 94.90 (94.60 to 95.60): VN057869.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN057869.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN057869.D (-3213) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

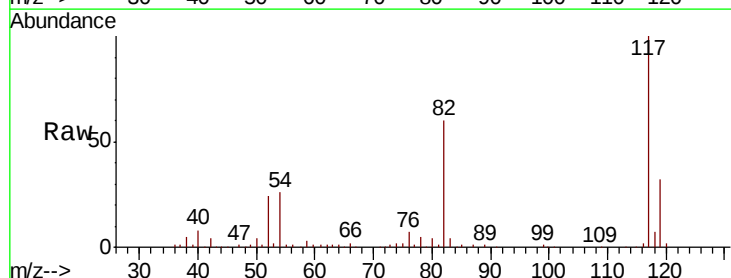
Tgt Ion: 117 Resp: 469820

Ion Ratio Lower Upper

117 100

82 60.4 47.2 70.8

119 32.3 25.3 37.9

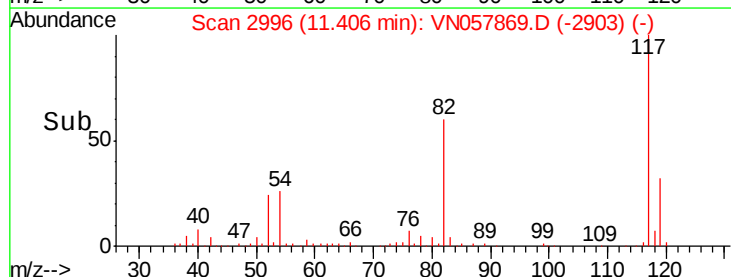


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

Time--> 11.30 11.40 11.50

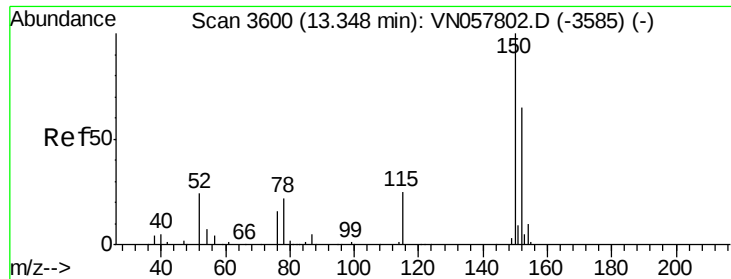


Abundance Ion 116.90 (116.60 to 117.60): VN057869.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057869.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057869.D (-2903) (-)

Time--> 11.30 11.40 11.50



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C1-(4)

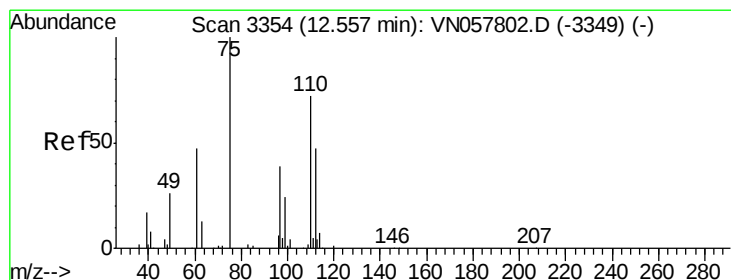
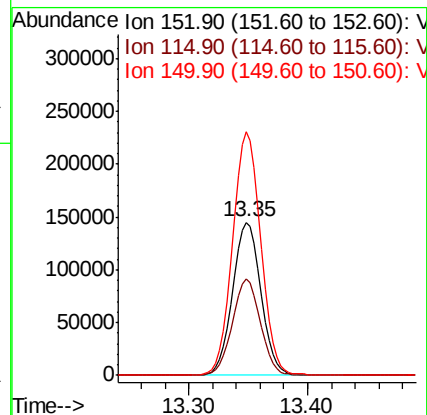
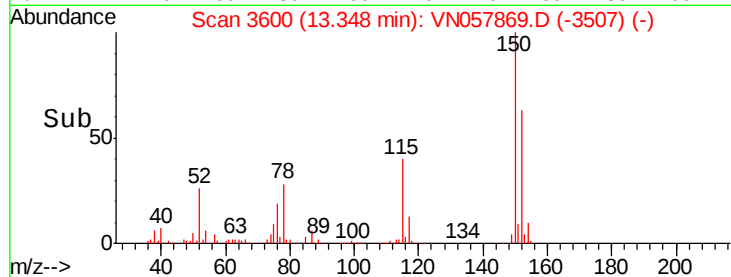
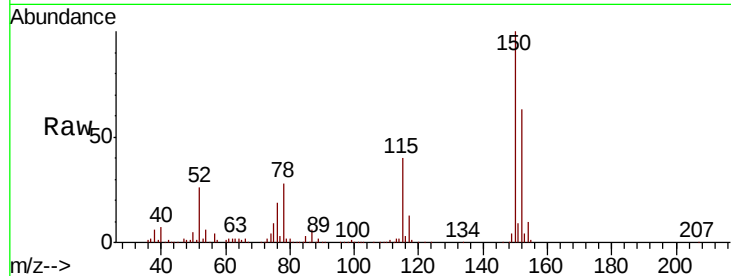
Tgt Ion:152 Resp: 238603

Ion Ratio Lower Upper

152 100

115 62.5 30.3 91.0

150 158.0 0.0 352.4



#76

1,2,3-Trichloropropane

Concen: 30.395 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057869.D

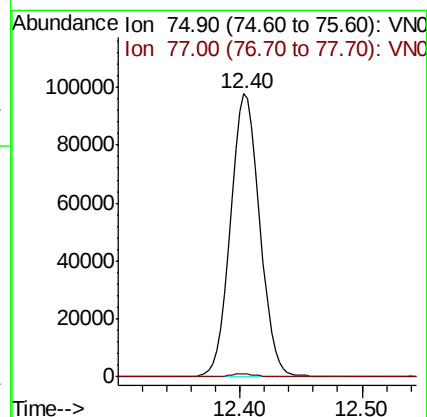
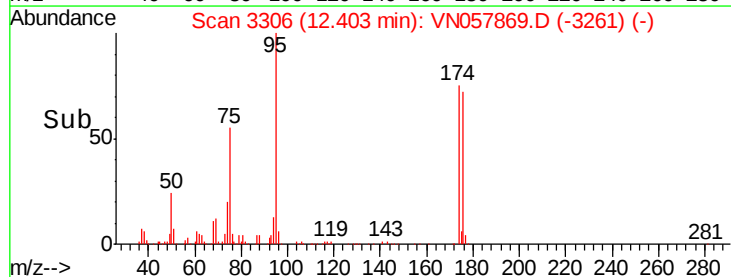
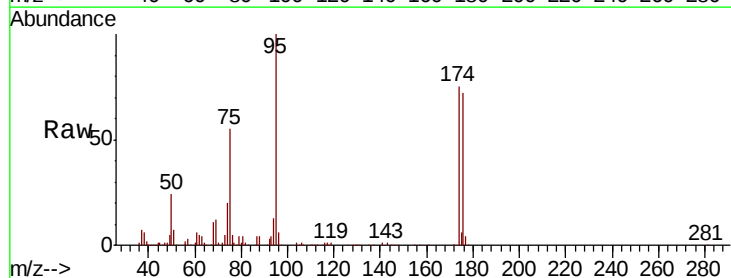
Acq: 10 Sep 2019 17:46

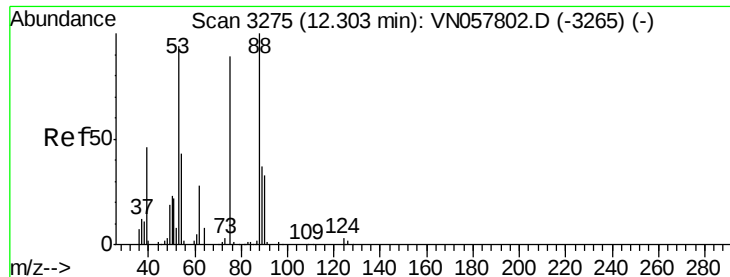
Tgt Ion: 75 Resp: 164063

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 106.962 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C1-(4)

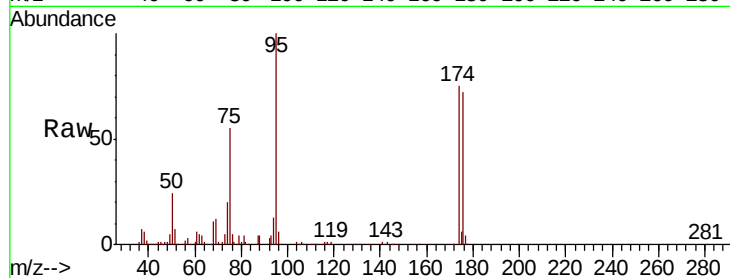
Tgt Ion: 75 Resp: 164063

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

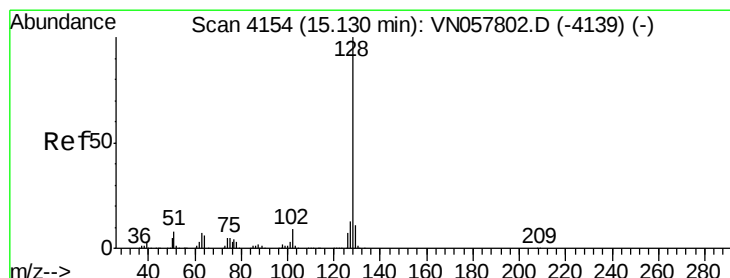
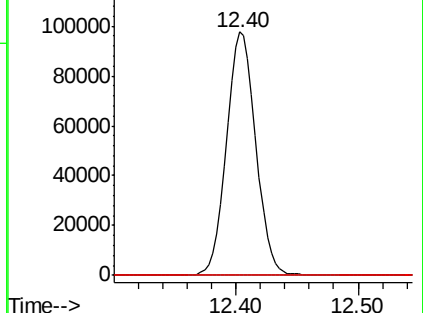
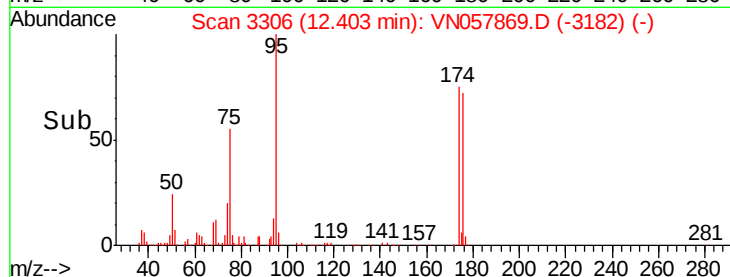
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN057869.D

Acq: 10 Sep 2019 17:46

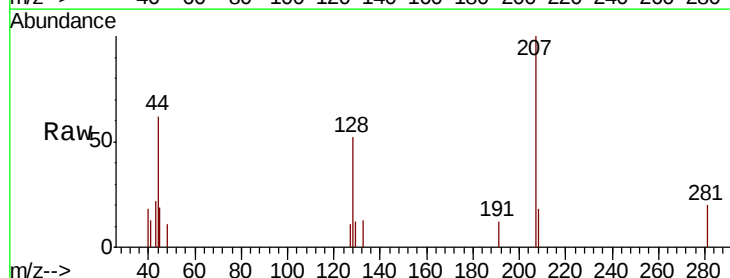
Tgt Ion: 128 Resp: 1376

Ion Ratio Lower Upper

128 100

127 10.7 10.3 15.5

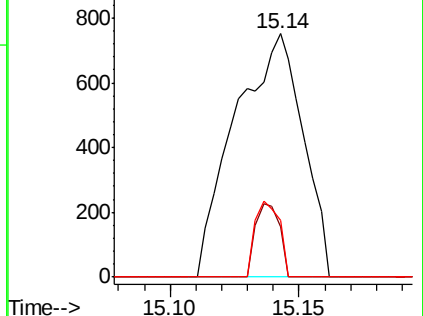
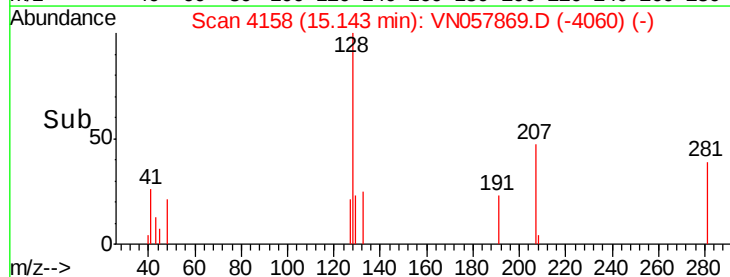
129 11.1 8.6 12.8

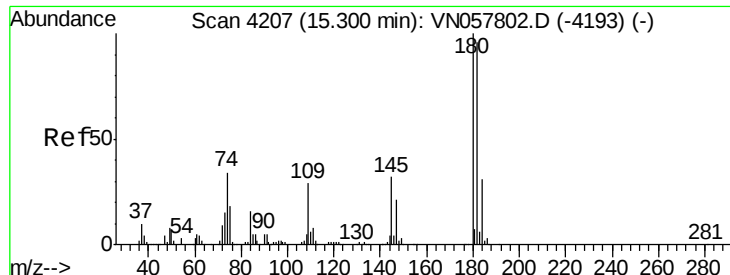


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.072 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.01 min
 Lab File: VN057869.D
 Acq: 10 Sep 2019 17:46

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C1-(4)

Tgt Ion:180 Resp: 363
 Ion Ratio Lower Upper
 180 100
 182 85.7 48.3 144.8
 145 8.0 16.3 48.8#

