

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081619\
 Data File : VW011943.D
 Acq On : 15 Aug 2019 21:44
 Operator : SY/VA
 Sample : K4090-09
 Misc : 6.40G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-081519

Quant Time: Aug 16 04:36:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

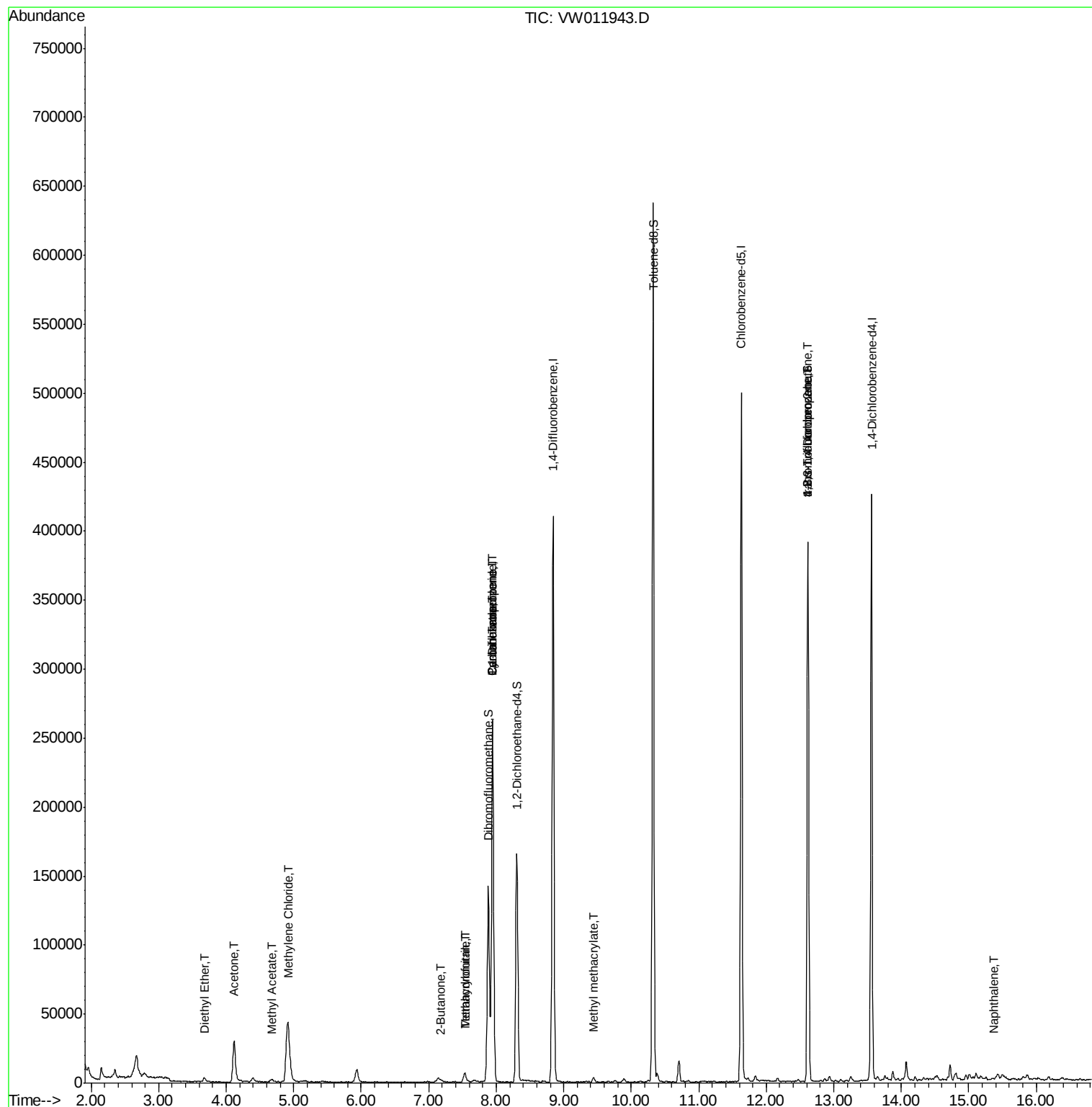
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	189066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	318415	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	263910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	104838	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	132098	60.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	121.70%	
35) Dibromofluoromethane	7.88	113	100251	56.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.24%	
50) Toluene-d8	10.32	98	389220	53.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.44%	
62) 4-Bromofluorobenzene	12.62	95	123310	47.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.58%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	1482	1.330	ug/l	87
11) Tert butyl alcohol	5.15	59	952	Below Cal	#	86
16) Acetone	4.12	43	54031	78.239	ug/l	93
18) Methyl Acetate	4.68	43	4972	3.205	ug/l #	83
20) Methylene Chloride	4.91	84	35656	14.971	ug/l	97
25) 2-Butanone	7.18	43	1679	1.858	ug/l	98
29) Tetrahydrofuran	7.54	42	5881	11.385	ug/l	97
31) Cyclohexane	7.95	56	4746	1.169	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	16874	5.096	ug/l #	51
38) Carbon Tetrachloride	7.95	117	19948	7.038	ug/l #	16
41) Methacrylonitrile	7.54	41	3622	3.181	ug/l #	56
48) Methyl methacrylate	9.44	41	2098	1.247	ug/l #	89
76) 1,2,3-Trichloropropane	12.62	75	66561	60.002	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	66561	138.285	ug/l #	6
95) Naphthalene	15.37	128	774	2.245	ug/l #	92

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011943.D

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Instrument :

MSVOA_W

ClientSampleId :

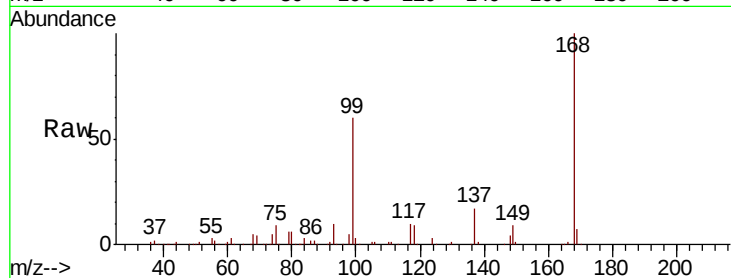
OR-02-081519

Tgt Ion:168 Resp: 189066

Ion Ratio Lower Upper

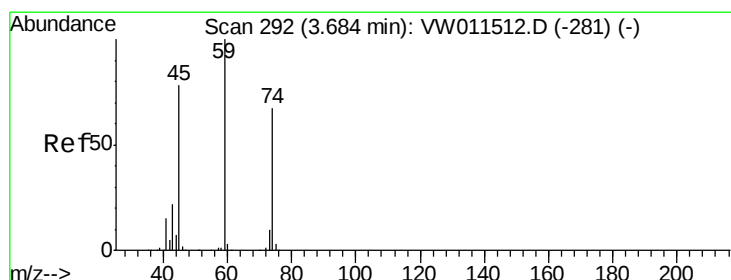
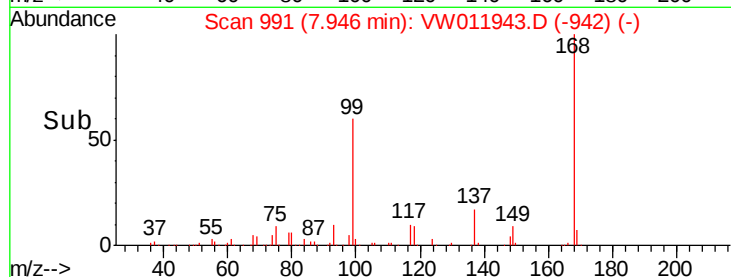
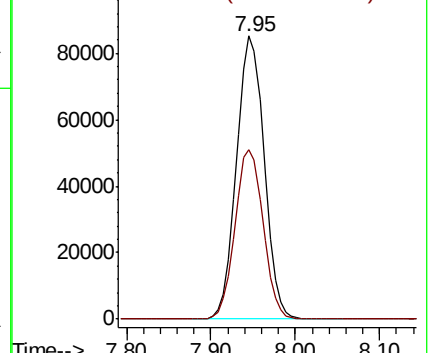
168 100

99 59.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.330 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW011943.D

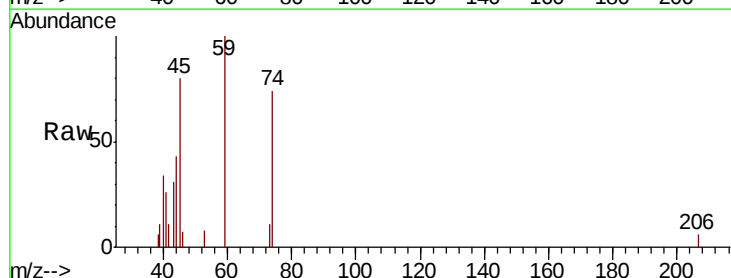
Acq: 15 Aug 2019 21:44

Tgt Ion: 74 Resp: 1482

Ion Ratio Lower Upper

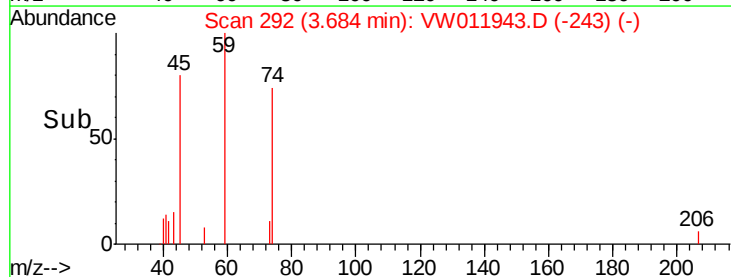
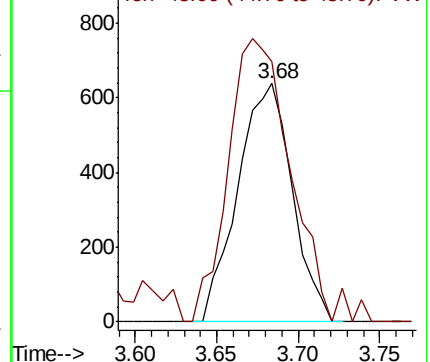
74 100

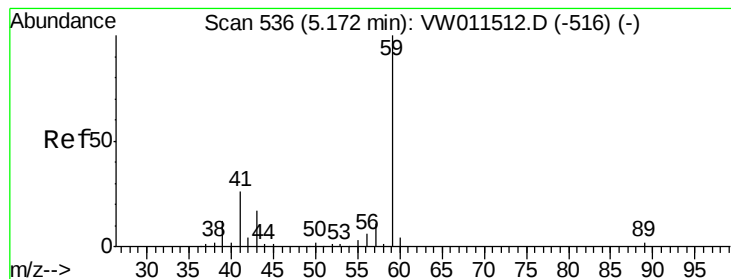
45 134.1 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



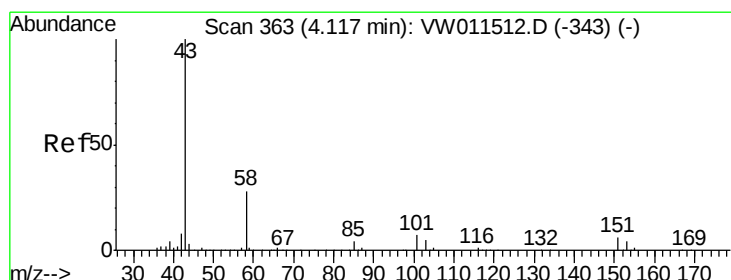
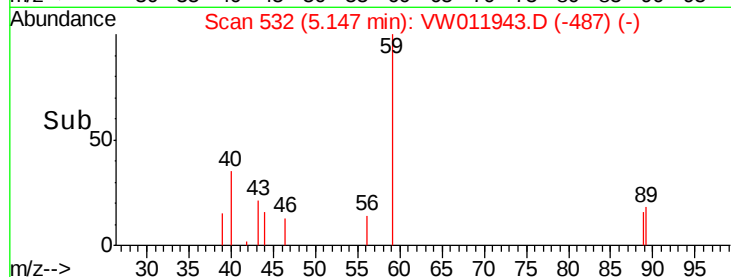
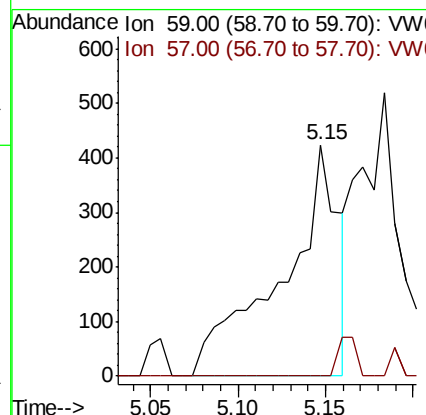
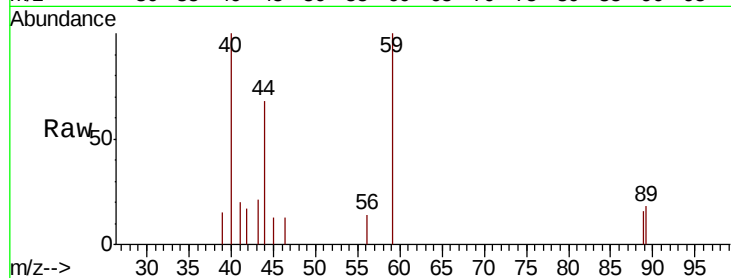


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.15 min Scan# 532
 Delta R.T. -0.02 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-081519

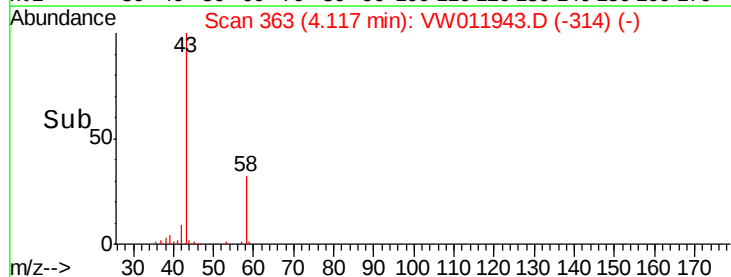
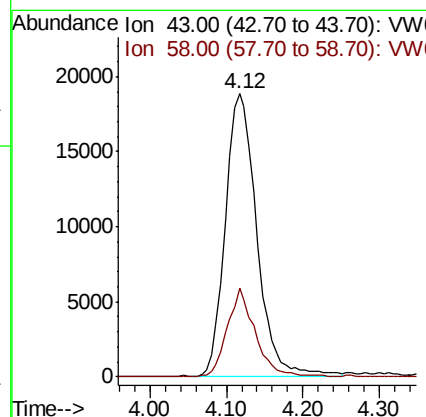
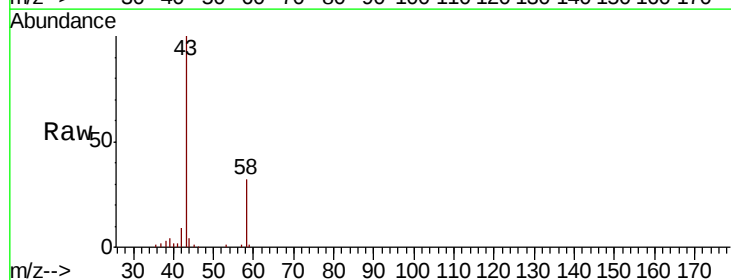
Tgt Ion: 59 Resp: 952
 Ion Ratio Lower Upper
 59 100
 57 5.5 8.5 12.7#

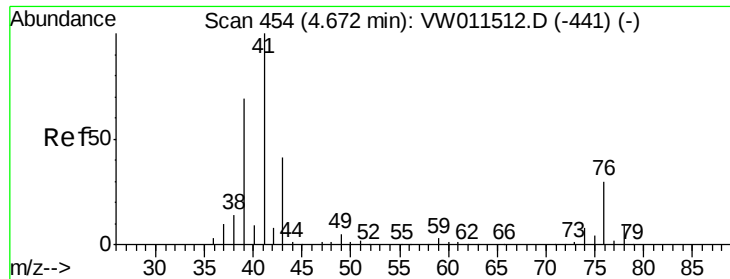


#16

Acetone
 Concen: 78.239 ug/l
 RT: 4.12 min Scan# 363
 Delta R.T. 0.00 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

Tgt Ion: 43 Resp: 54031
 Ion Ratio Lower Upper
 43 100
 58 31.6 22.3 33.5

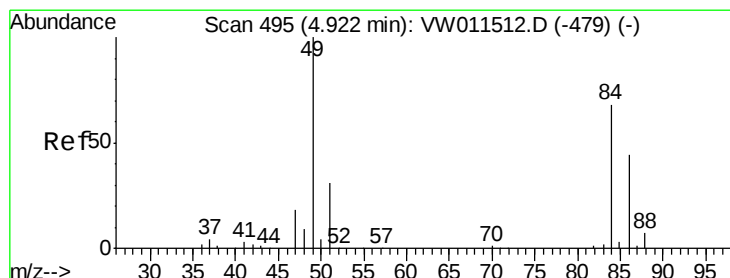
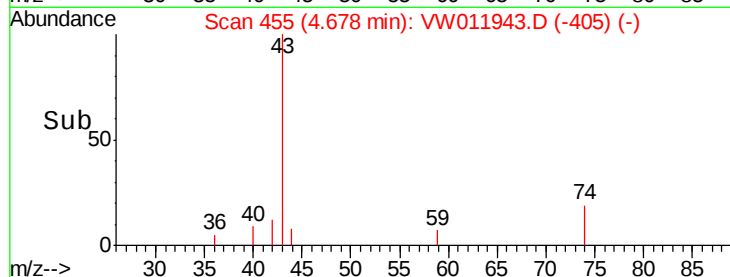
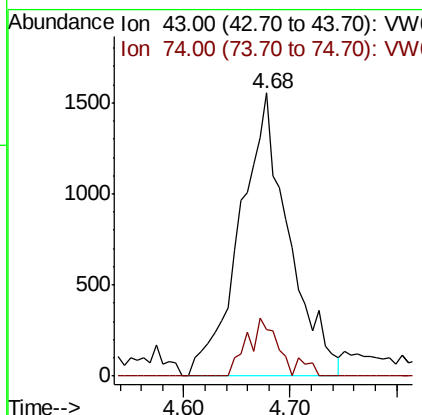
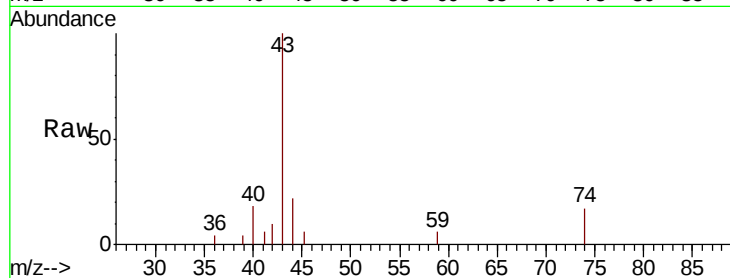




#18
Methyl Acetate
Concen: 3.205 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

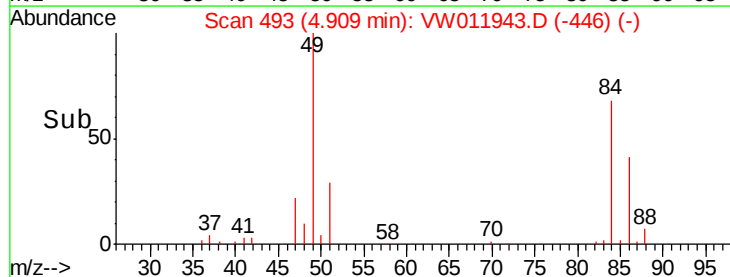
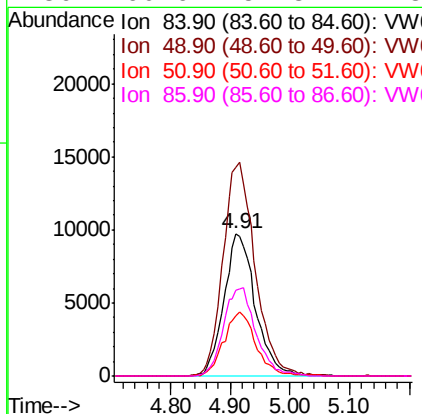
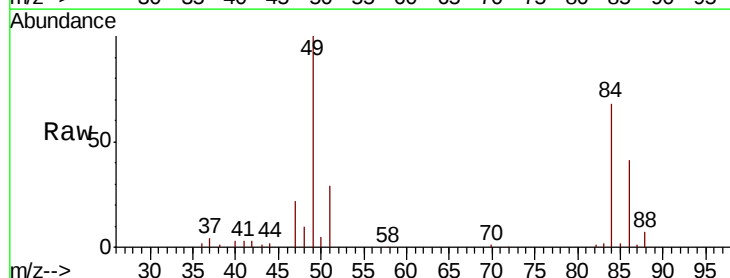
Instrument :
MSVOA_W
ClientSampleId :
OR-02-081519

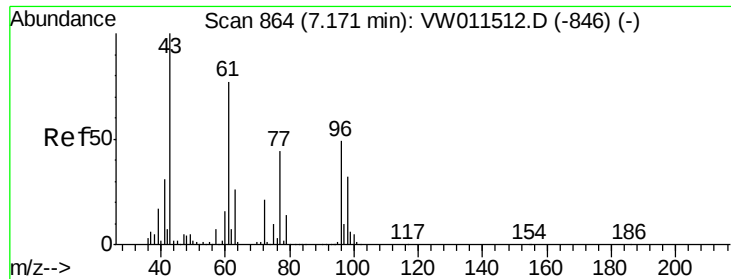
Tgt Ion: 43 Resp: 4972
Ion Ratio Lower Upper
43 100
74 12.3 15.9 23.9#



#20
Methylene Chloride
Concen: 14.971 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

Tgt Ion: 84 Resp: 35656
Ion Ratio Lower Upper
84 100
49 146.9 117.8 176.6
51 42.2 37.0 55.4
86 60.6 51.8 77.8

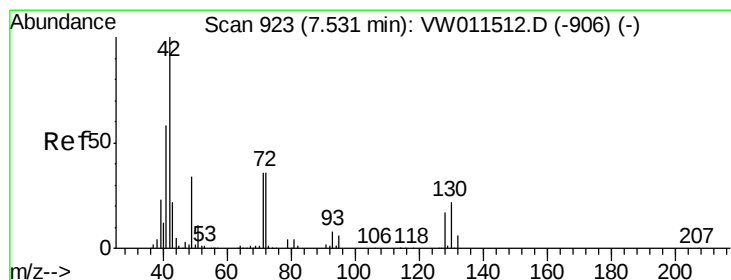
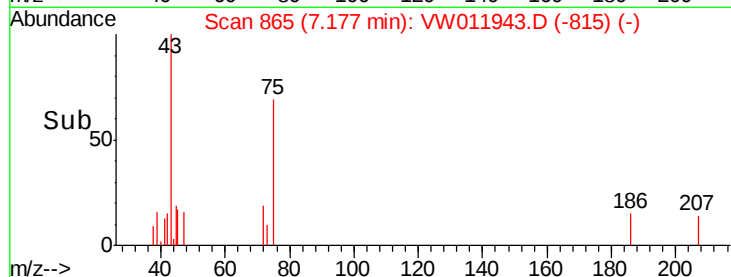
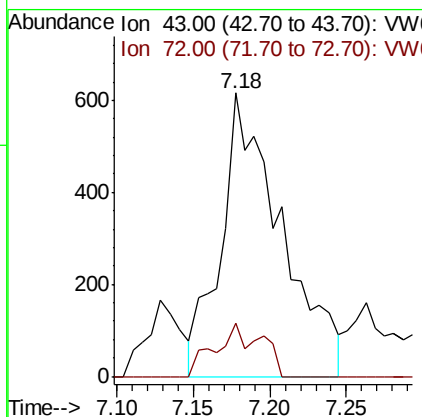
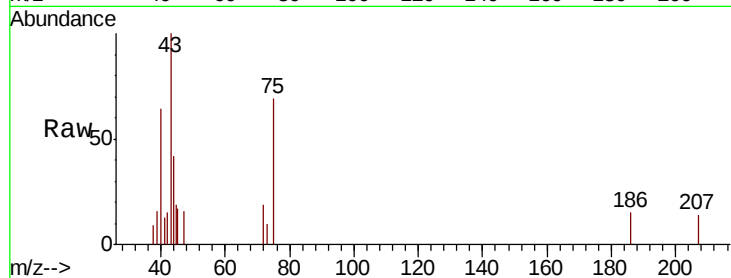




#25
2-Butanone
Concen: 1.858 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

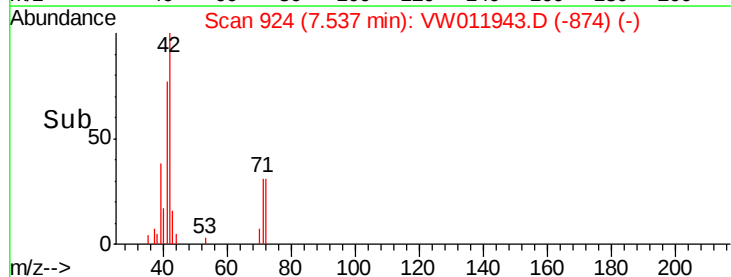
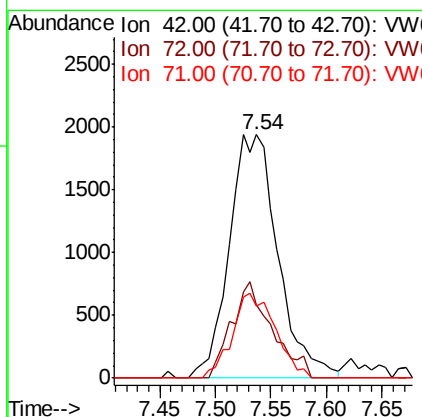
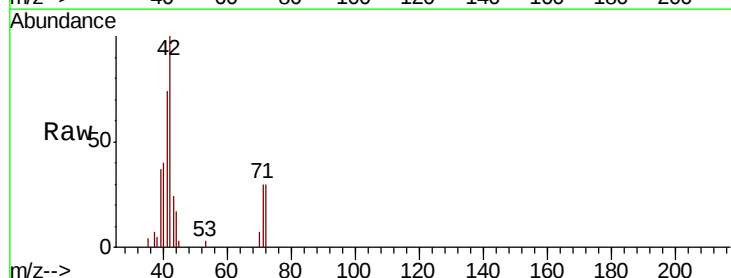
Instrument :
MSVOA_W
ClientSampleId :
OR-02-081519

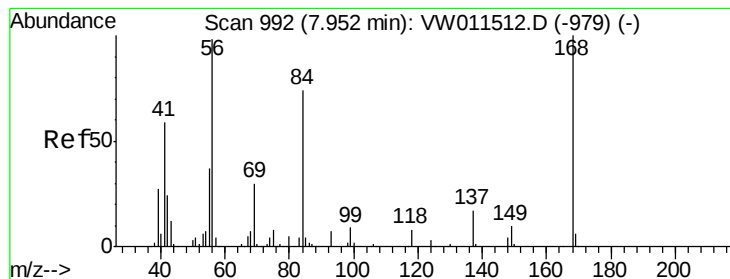
Tgt Ion: 43 Resp: 1679
Ion Ratio Lower Upper
43 100
72 21.7 16.6 24.8



#29
Tetrahydrofuran
Concen: 11.385 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

Tgt Ion: 42 Resp: 5881
Ion Ratio Lower Upper
42 100
72 32.9 27.1 40.7
71 30.9 26.2 39.4





#31

Cyclohexane

Concen: 1.169 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011943.D

Acq: 15 Aug 2019 21:44

Instrument :

MSVOA_W

ClientSampleId :

OR-02-081519

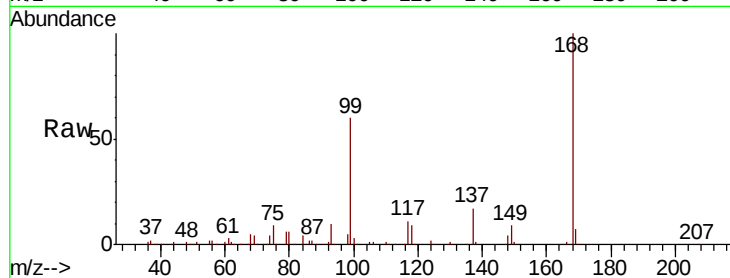
Tgt Ion: 56 Resp: 4746

Ion Ratio Lower Upper

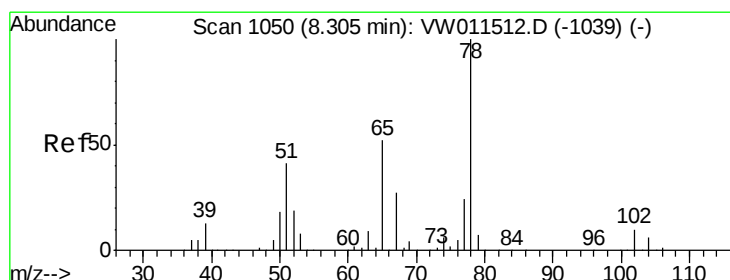
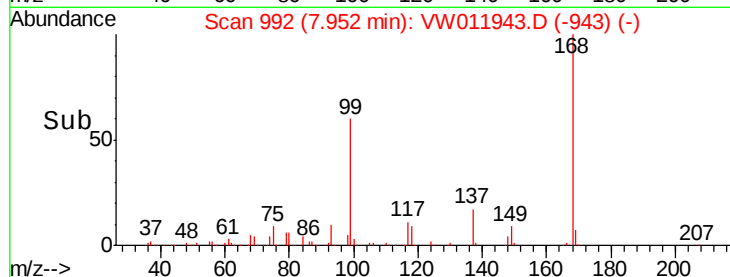
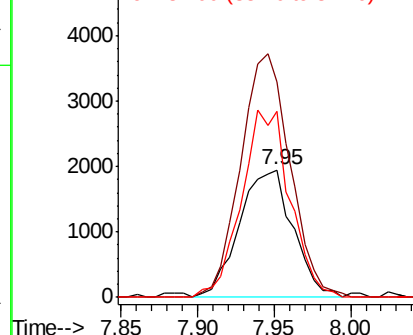
56 100

69 169.8 24.3 36.5#

84 146.2 60.4 90.6#



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



#33

1,2-Dichloroethane-d4

Concen: 60.846 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011943.D

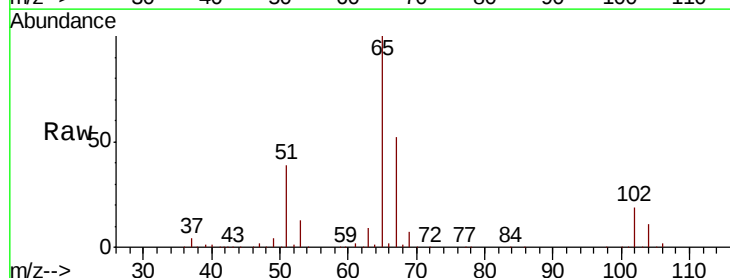
Acq: 15 Aug 2019 21:44

Tgt Ion: 65 Resp: 132098

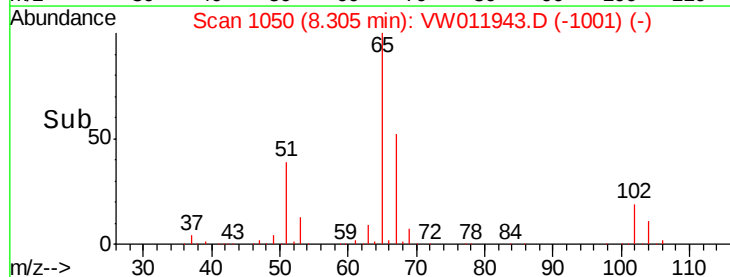
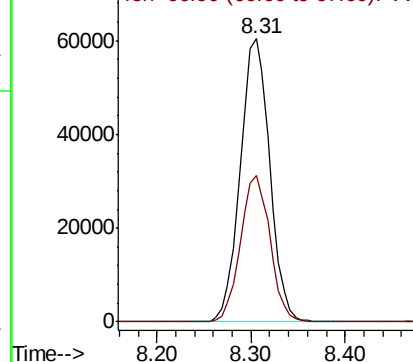
Ion Ratio Lower Upper

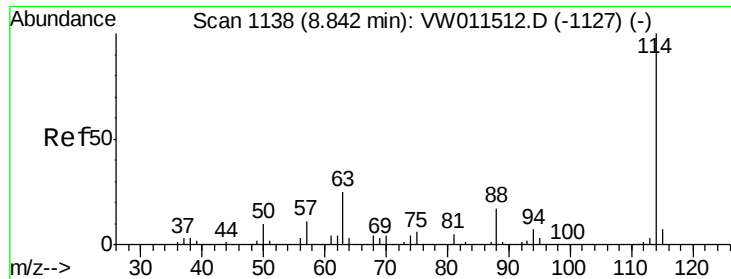
65 100

67 52.0 0.0 105.2



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

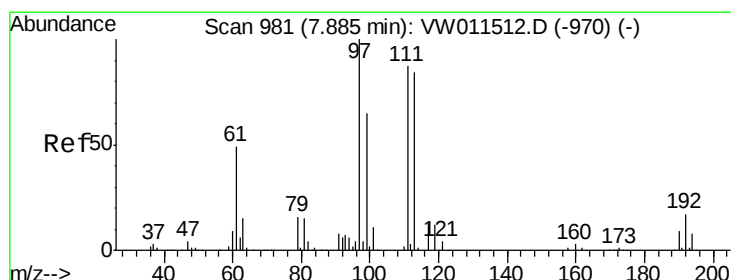
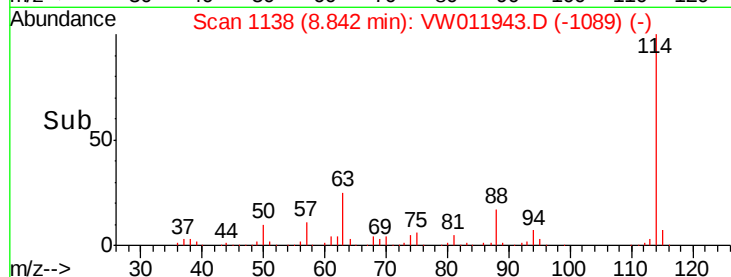
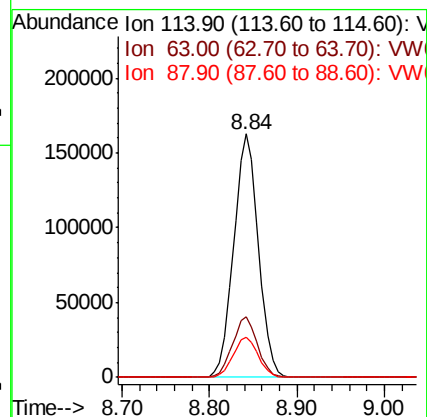
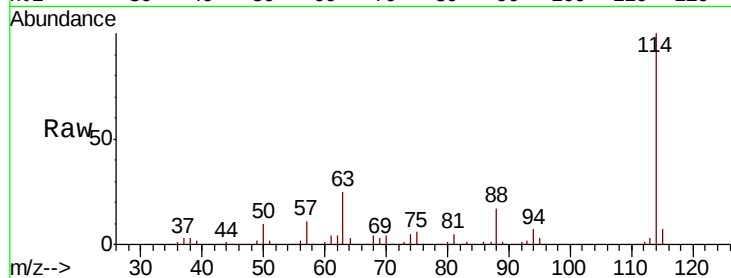




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

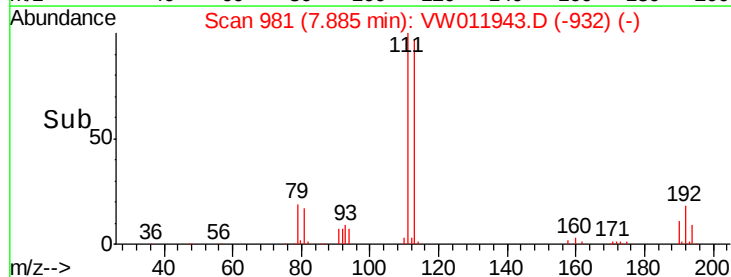
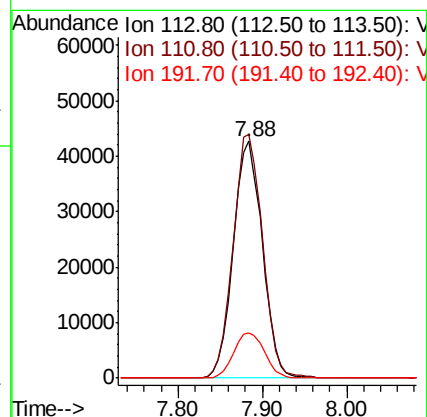
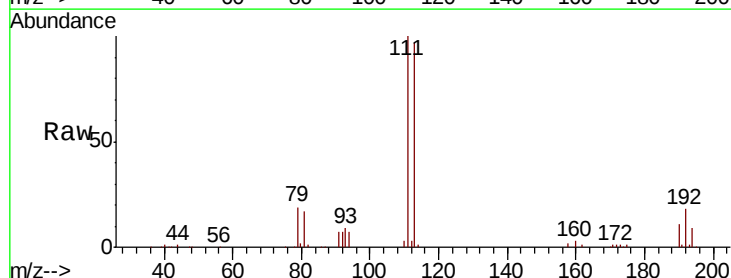
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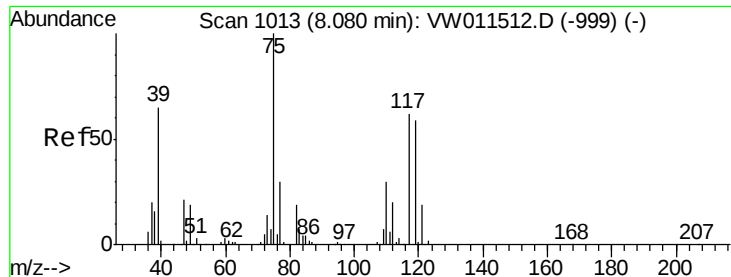
Tgt Ion:114 Resp: 318415
 Ion Ratio Lower Upper
 114 100
 63 25.1 0.0 49.2
 88 16.6 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 56.120 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

Tgt Ion:113 Resp: 100251
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.7 124.1
 192 19.9 16.1 24.1

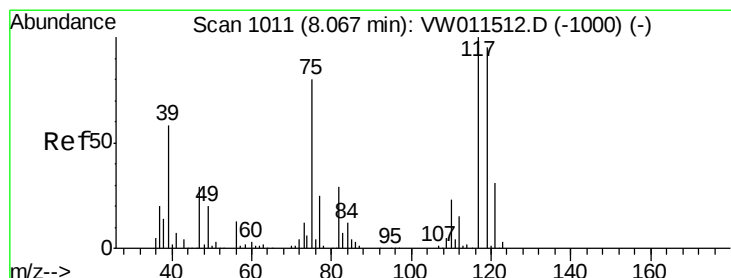
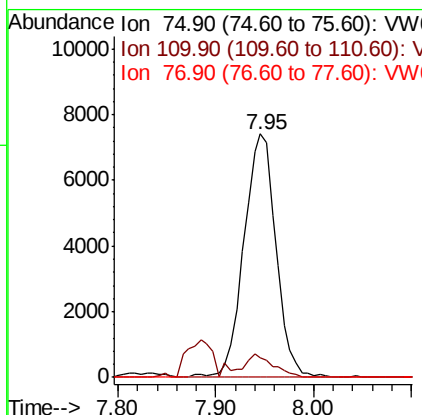
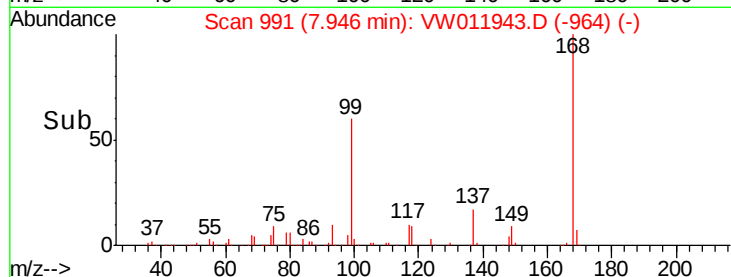
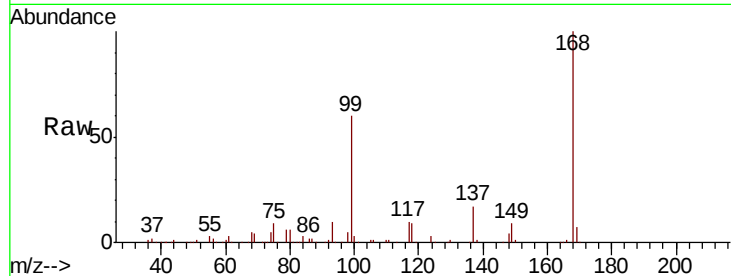




#36
 1,1-Dichloropropene
 Concen: 5.096 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

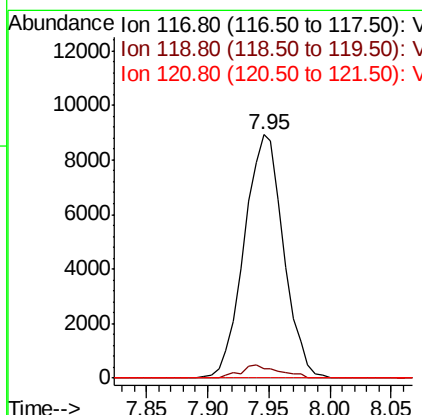
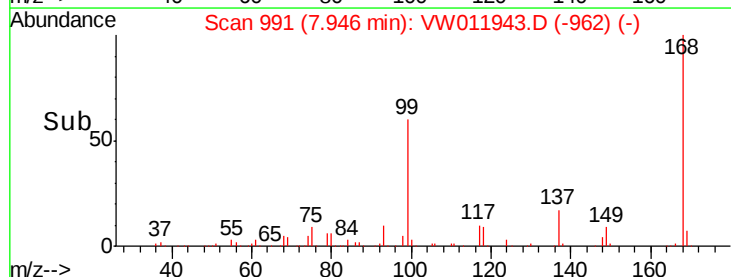
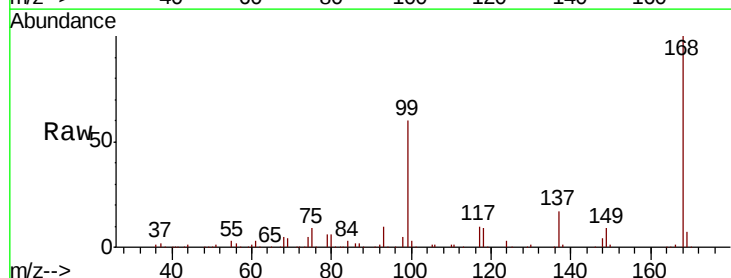
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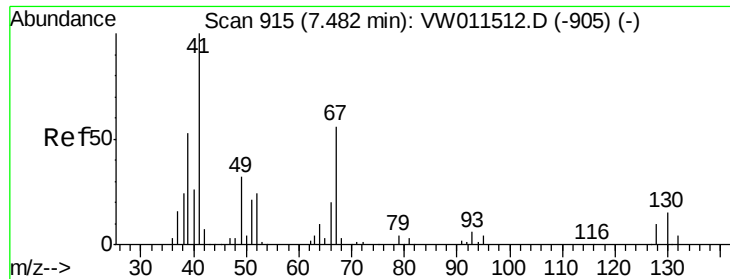
Tgt Ion: 75 Resp: 16874
 Ion Ratio Lower Upper
 75 100
 110 8.0 15.6 46.8#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 7.038 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

Tgt Ion: 117 Resp: 19948
 Ion Ratio Lower Upper
 117 100
 119 4.1 75.8 113.6#
 121 0.0 24.7 37.1#

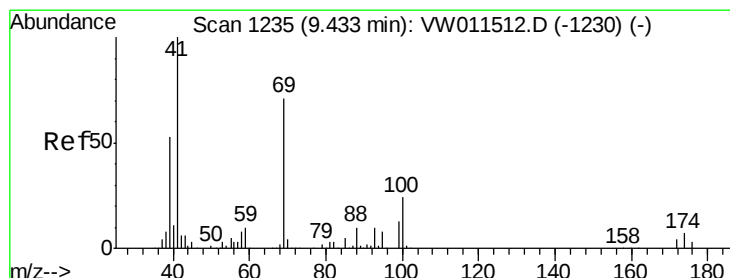
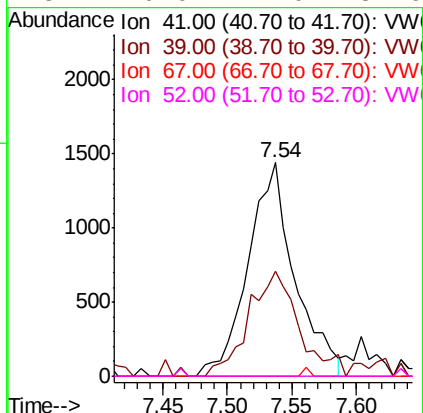
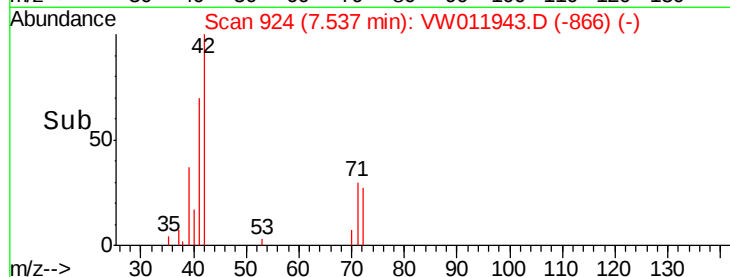
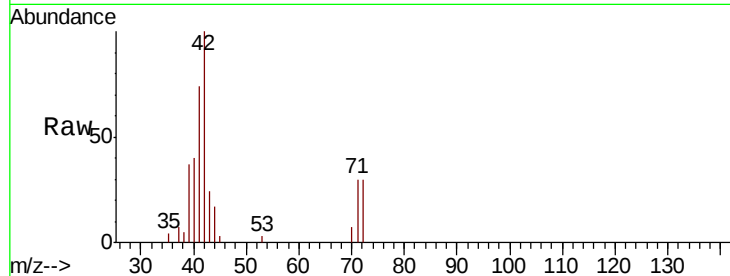




#41
Methacrylonitrile
Concen: 3.181 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

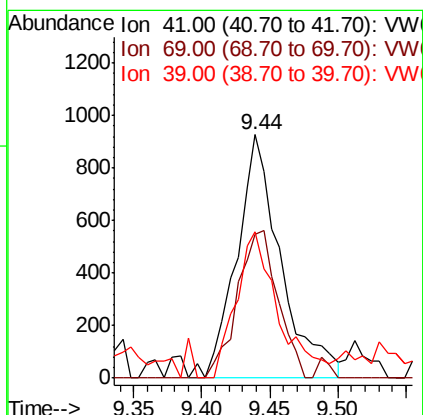
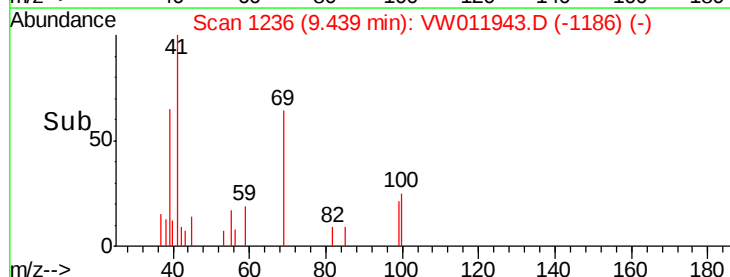
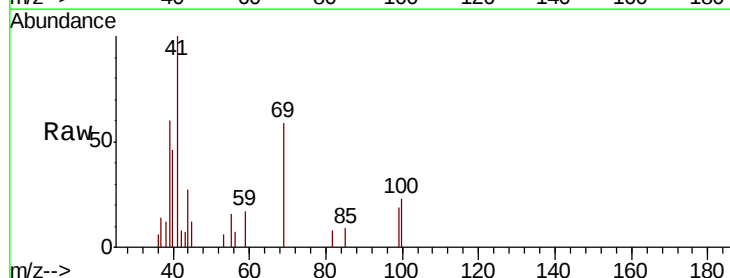
Instrument :
MSVOA_W
ClientSampleId :
OR-02-081519

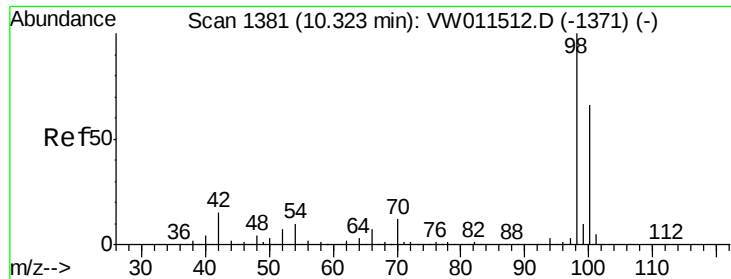
Tgt Ion:	41	Resp:	3622
Ion	Ratio	Lower	Upper
41	100		
39	52.8	43.0	64.4
67	0.0	47.5	71.3#
52	0.0	21.0	31.6#



#48
Methyl methacrylate
Concen: 1.247 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

Tgt Ion:	41	Resp:	2098
Ion	Ratio	Lower	Upper
41	100		
69	55.8	57.1	85.7#
39	57.9	45.4	68.2





#50

Toluene-d8

Concen: 53.216 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011943.D

Acq: 15 Aug 2019 21:44

Instrument :

MSVOA_W

ClientSampleId :

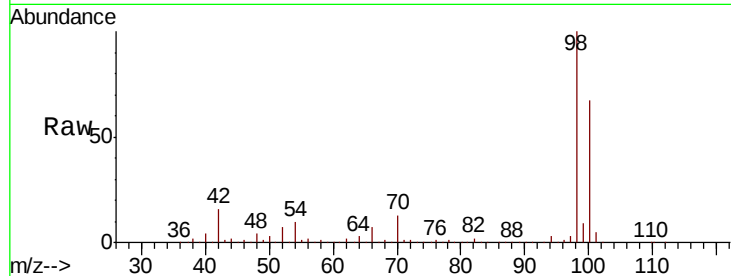
OR-02-081519

Tgt Ion: 98 Resp: 389220

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

250000

200000

150000

100000

50000

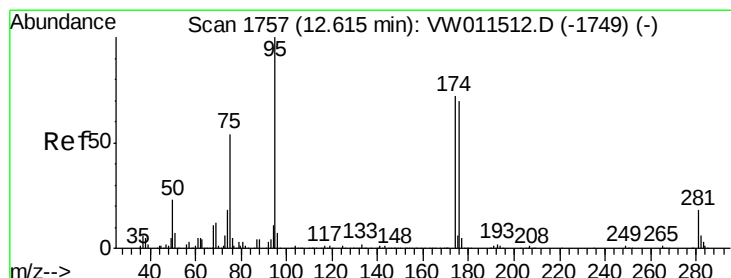
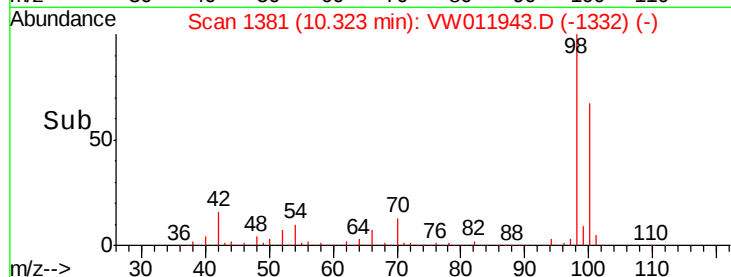
0

10.20

10.30

10.40

Time-->



#62

4-Bromofluorobenzene

Concen: 47.290 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011943.D

Acq: 15 Aug 2019 21:44

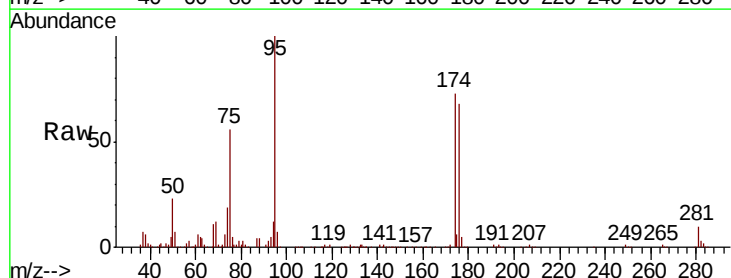
Tgt Ion: 95 Resp: 123310

Ion Ratio Lower Upper

95 100

174 75.9 0.0 150.2

176 73.4 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

80000

60000

40000

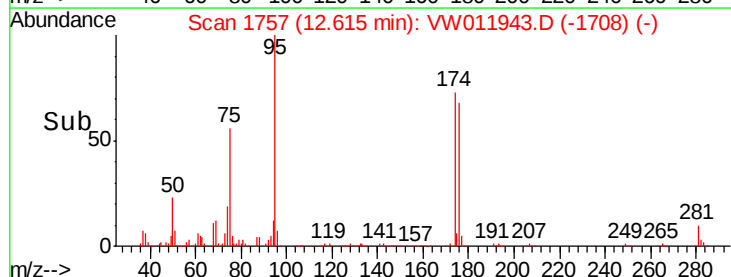
20000

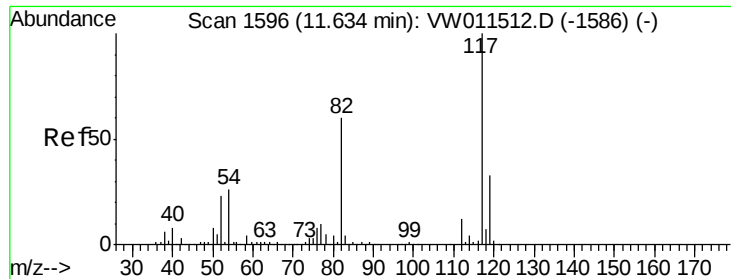
0

12.60

12.70

Time-->

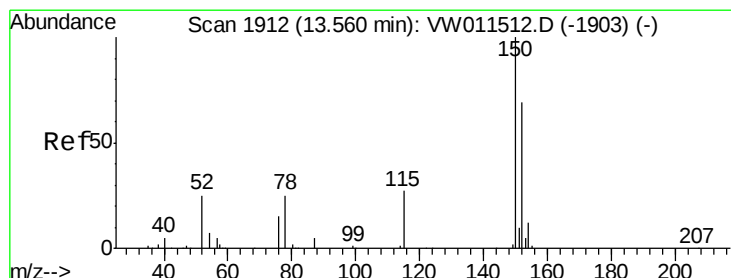
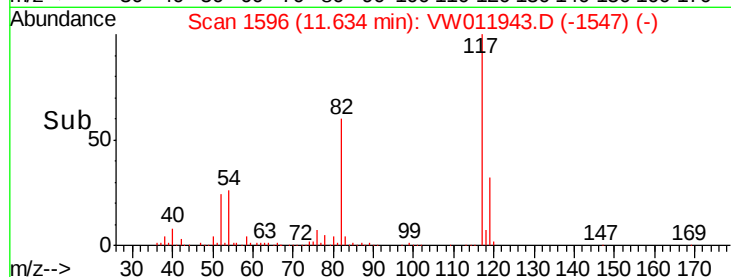
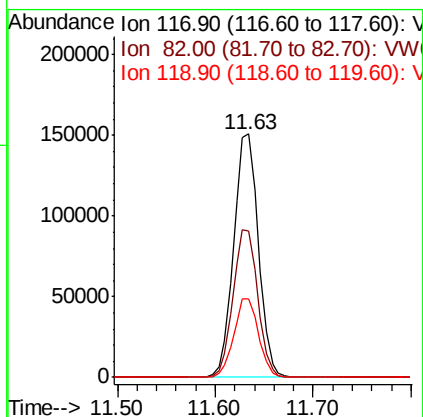
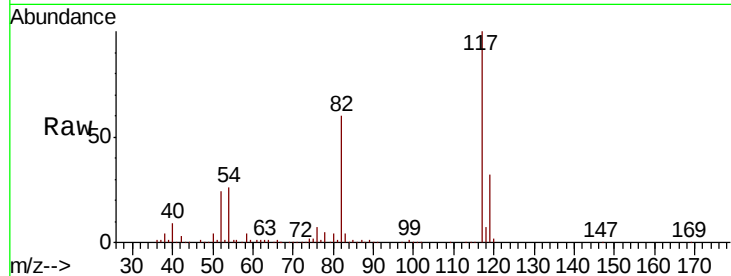




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

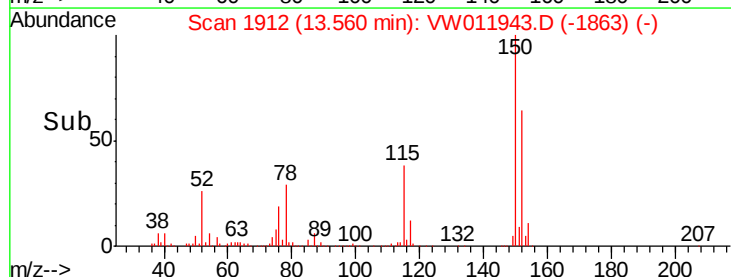
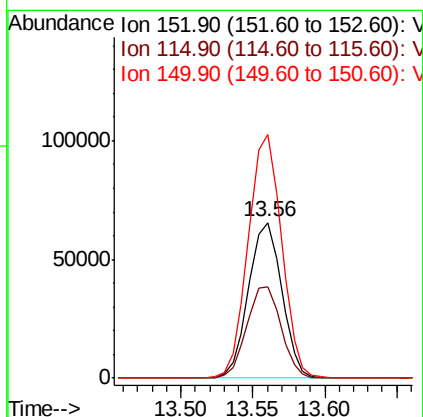
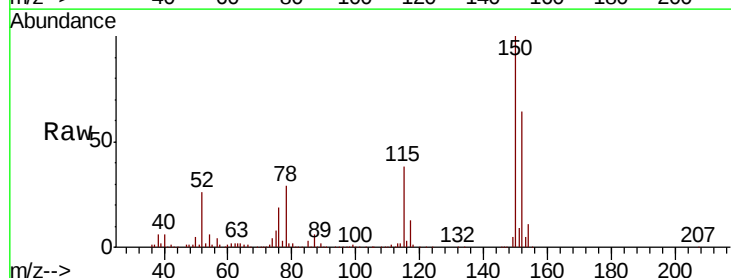
Instrument :
MSVOA_W
ClientSampleId :
OR-02-081519

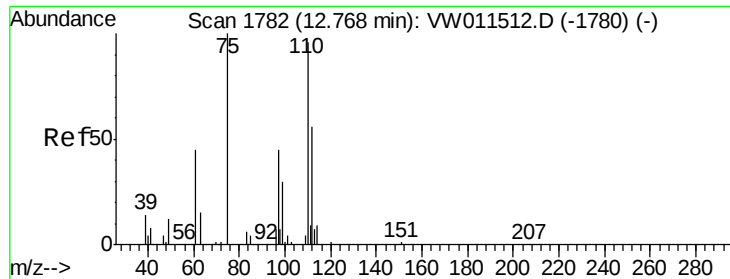
Tgt Ion:117 Resp: 263910
Ion Ratio Lower Upper
117 100
82 60.1 47.9 71.9
119 32.2 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011943.D
Acq: 15 Aug 2019 21:44

Tgt Ion:152 Resp: 104838
Ion Ratio Lower Upper
152 100
115 60.6 30.5 91.5
150 157.0 0.0 352.6

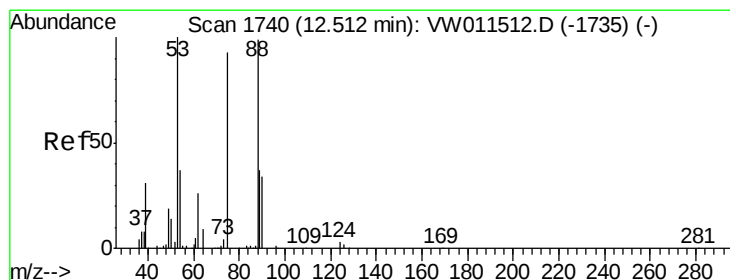
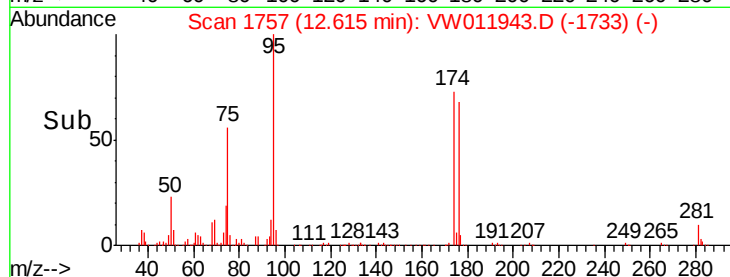
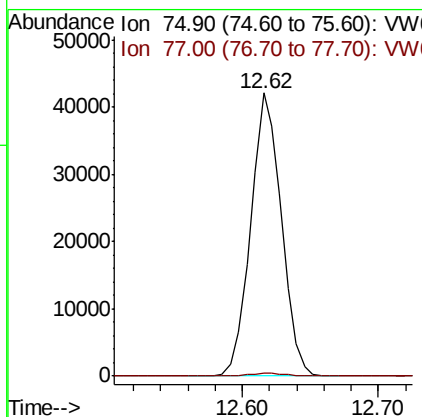
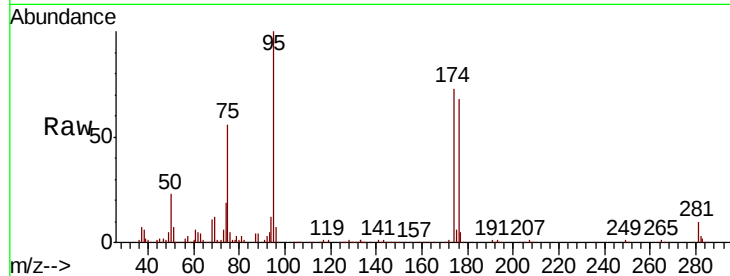




#76
 1,2,3-Trichloropropane
 Concen: 60.002 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

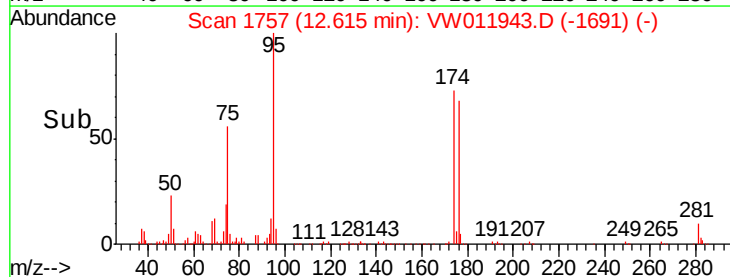
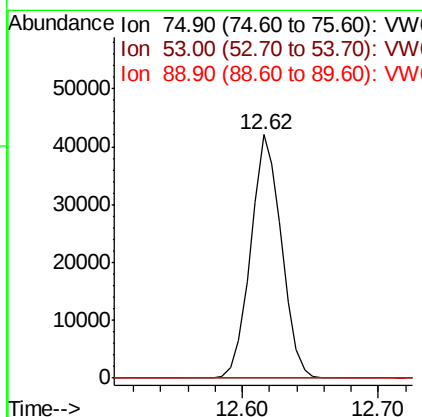
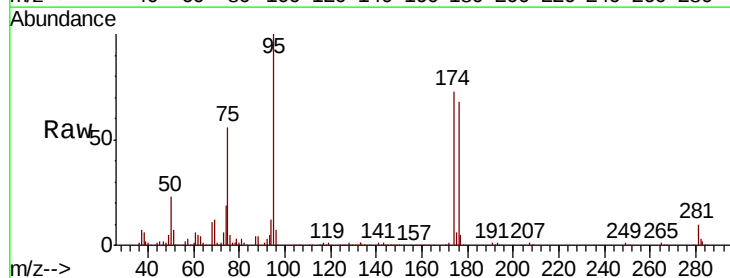
Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-081519

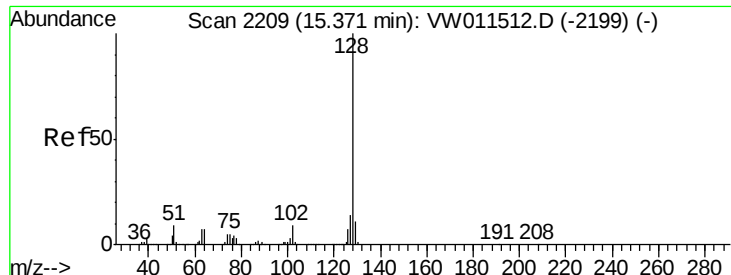
Tgt Ion: 75 Resp: 66561
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 138.285 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW011943.D
 Acq: 15 Aug 2019 21:44

Tgt Ion: 75 Resp: 66561
 Ion Ratio Lower Upper
 75 100
 53 0.3 88.0 132.0#
 89 0.0 35.3 52.9#





#95

Naphthalene

Concen: 2.245 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011943.D

Acq: 15 Aug 2019 21:44

Instrument :

MSVOA_W

ClientSampleId :

OR-02-081519

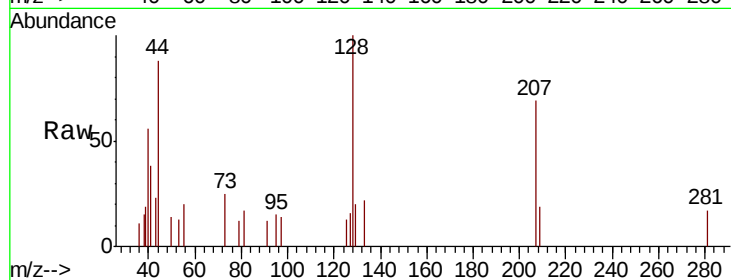
Tgt Ion:128 Resp: 774

Ion Ratio Lower Upper

128 100

127 7.4 10.6 16.0#

129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

