

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072619\
 Data File : VX011116.D
 Acq On : 27 Jul 2019 02:19
 Operator : JC/SP
 Sample : K4017-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0104

Quant Time: Jul 27 04:27:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	187534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	301267	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279737	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126949	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	103065	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
35) Dibromofluoromethane	5.50	113	93667	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
50) Toluene-d8	8.71	98	359677	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.13	95	124189	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	

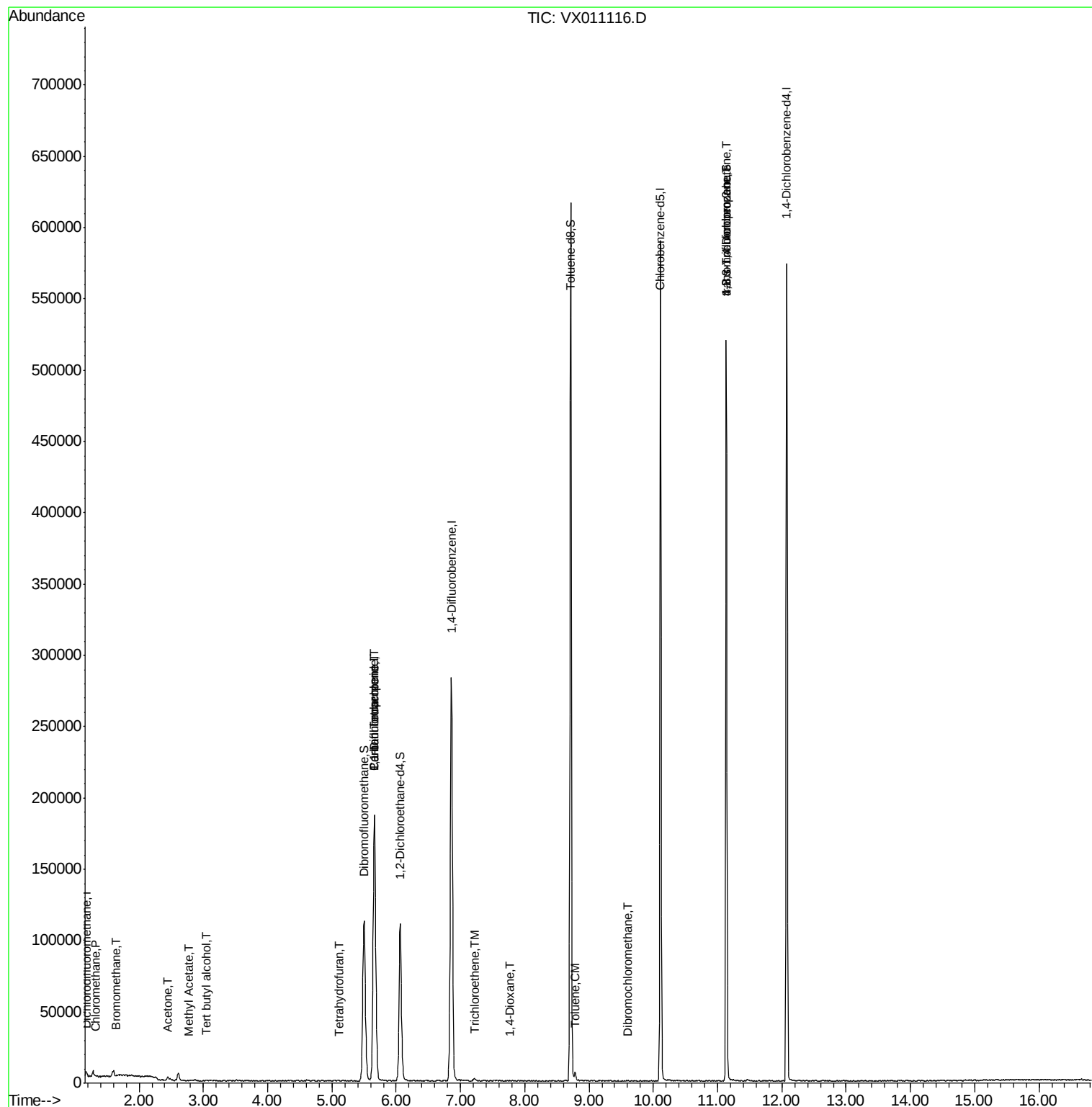
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	20	0.556	ug/l #	43
3) Chloromethane	1.32	50	506	0.293	ug/l #	61
5) Bromomethane	1.65	94	533	0.538	ug/l	92
11) Tert butyl alcohol	3.05	59	155	0.334	ug/l #	24
16) Acetone	2.45	43	3284	3.645	ug/l	91
18) Methyl Acetate	2.78	43	471	0.230	ug/l	91
29) Tetrahydrofuran	5.12	42	233	0.284	ug/l #	38
36) 1,1-Dichloropropene	5.66	75	12579	5.083	ug/l #	49
38) Carbon Tetrachloride	5.66	117	16900	6.554	ug/l #	17
44) Trichloroethene	7.22	130	642	0.286	ug/l	87
49) 1,4-Dioxane	7.77	88	19	0.335	ug/l #	1
52) Toluene	8.78	92	1851	0.372	ug/l	97
60) Dibromochloromethane	9.61	129	25	2.538	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	63232	27.602	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	63232	68.344	ug/l #	11

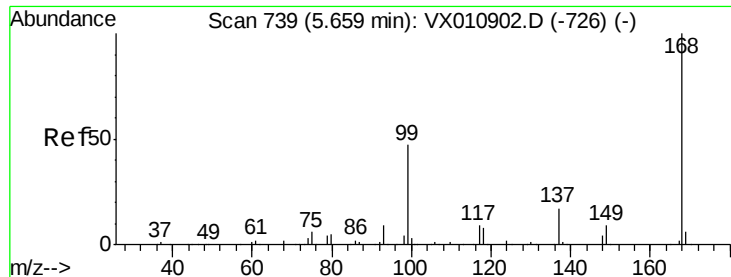
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

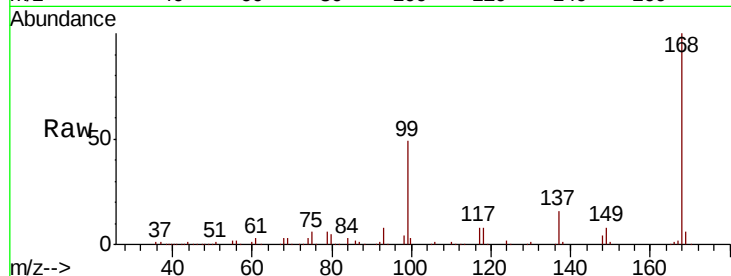
SU19-MSW0104

Tot Ion:168 Resp: 187534

Ion Ratio Lower Upper

168 100

99 49.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

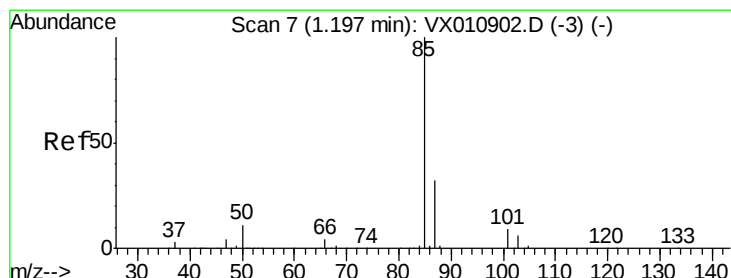
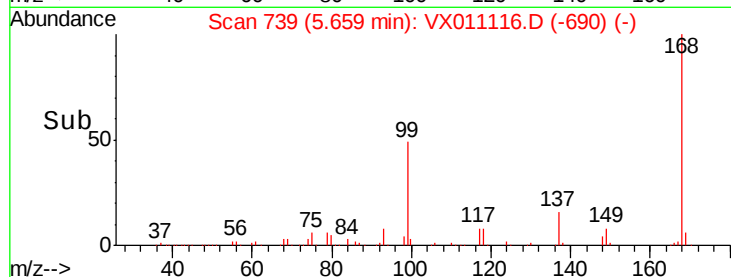
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.556 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.01 min

Lab File: VX011116.D

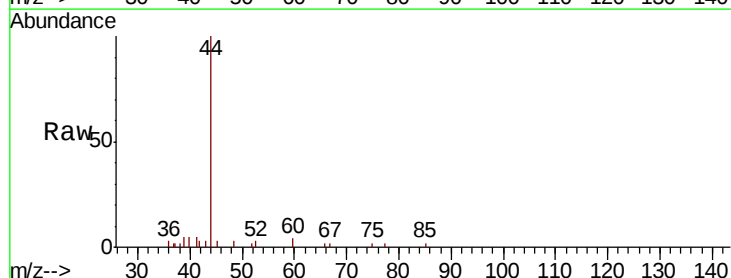
Acq: 27 Jul 2019 02:19

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

60

50

40

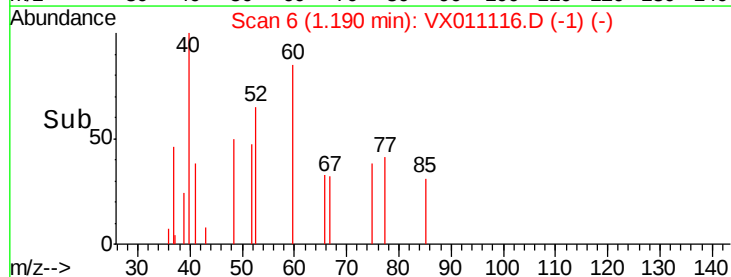
30

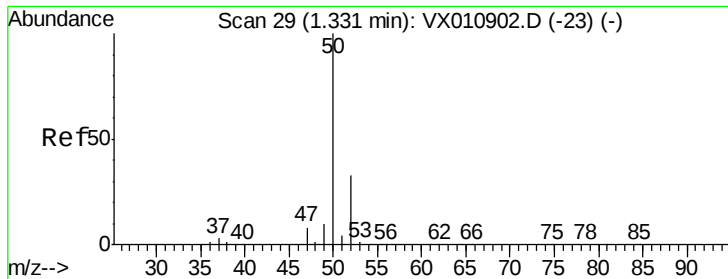
20

10

0

Time--> 1.17 1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: 0.293 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

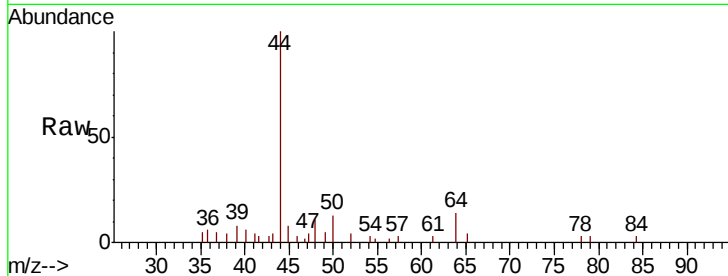
SU19-MSW0104

Tot Ion: 50 Resp: 506

Ion Ratio Lower Upper

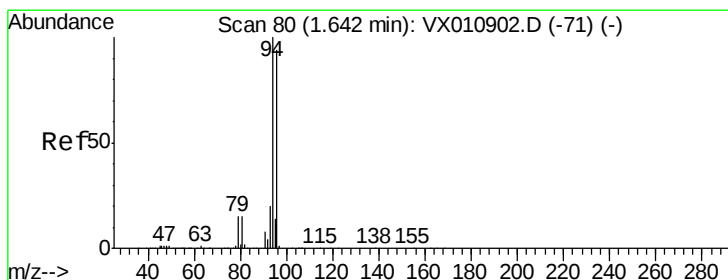
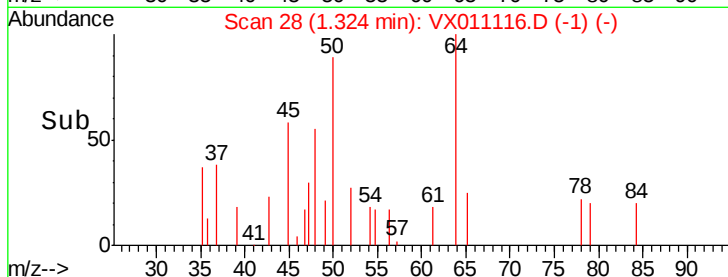
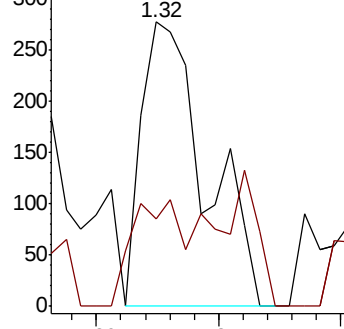
50 100

52 11.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.538 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011116.D

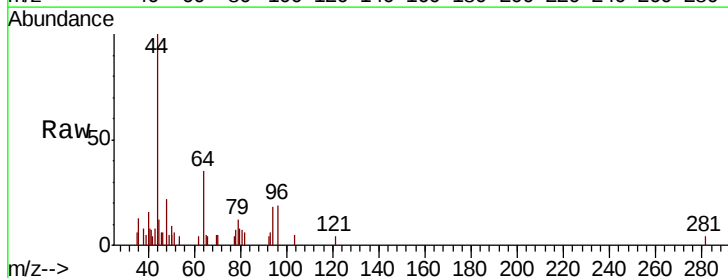
Acq: 27 Jul 2019 02:19

Tgt Ion: 94 Resp: 533

Ion Ratio Lower Upper

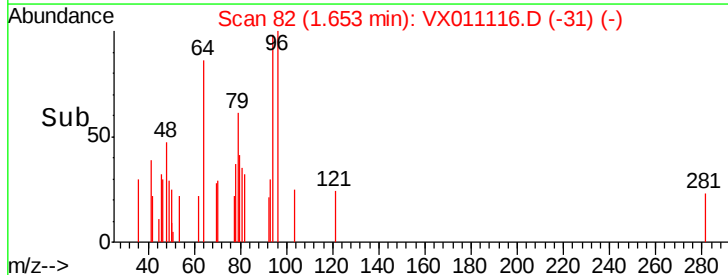
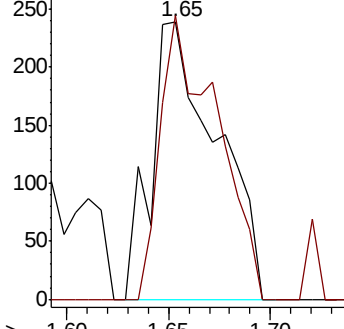
94 100

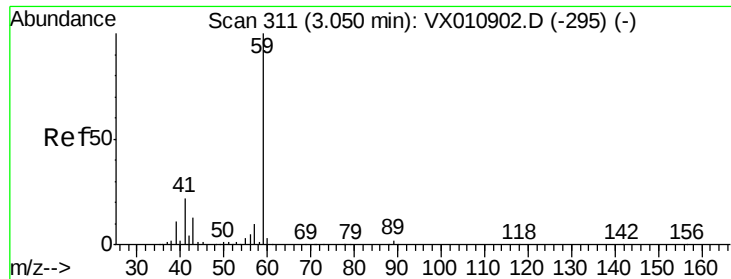
96 102.1 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

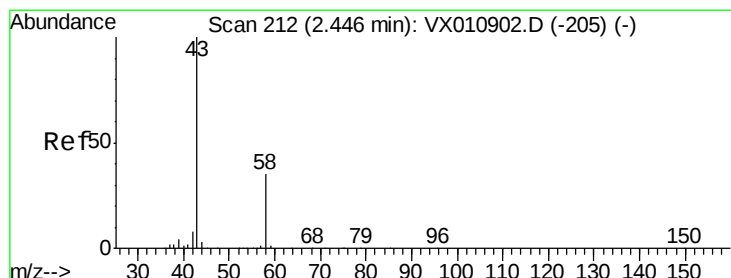
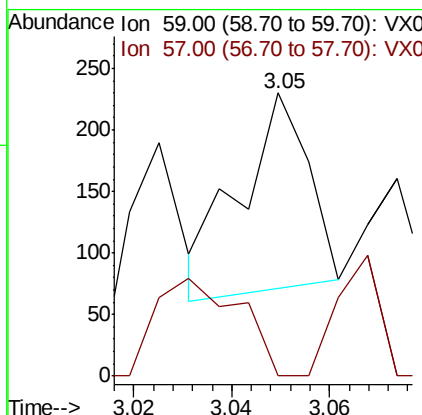
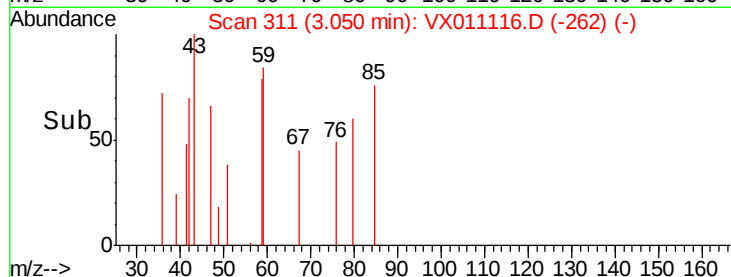
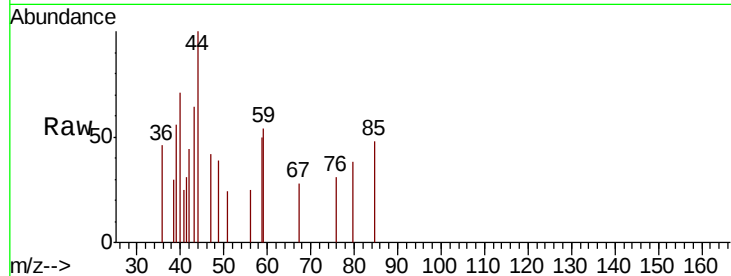




#11
Tert butyl alcohol
Concen: 0.334 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.00 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

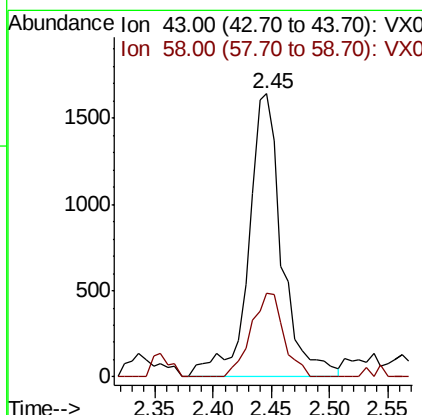
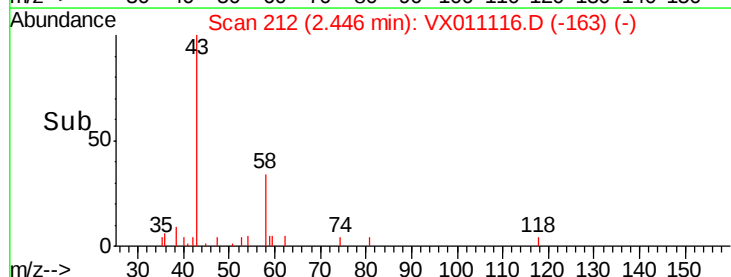
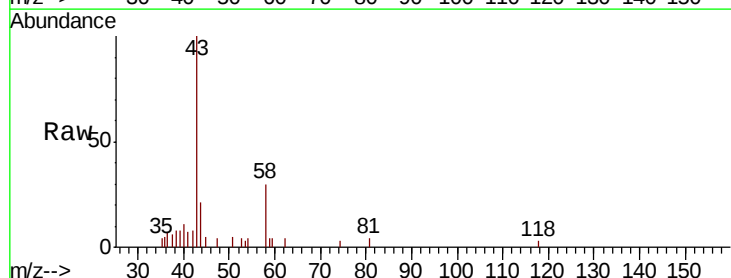
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0104

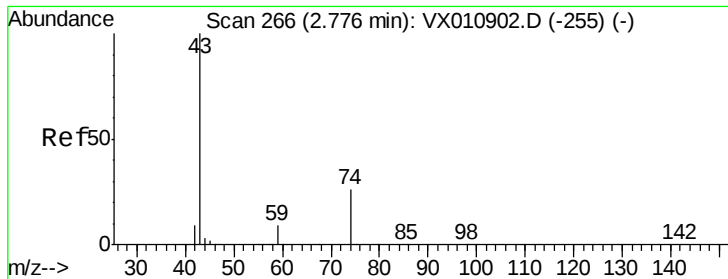
Tot Ion: 59 Resp: 155
Ion Ratio Lower Upper
59 100
57 38.1 7.9 11.9#



#16
Acetone
Concen: 3.645 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

Tgt Ion: 43 Resp: 3284
Ion Ratio Lower Upper
43 100
58 29.5 27.7 41.5

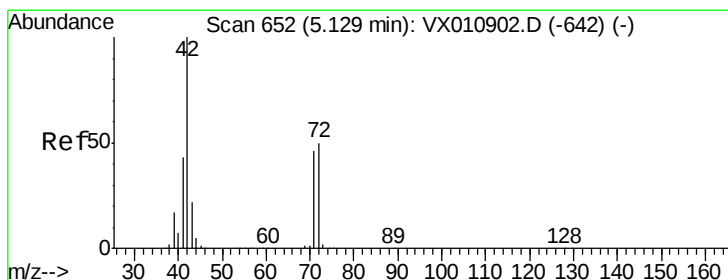
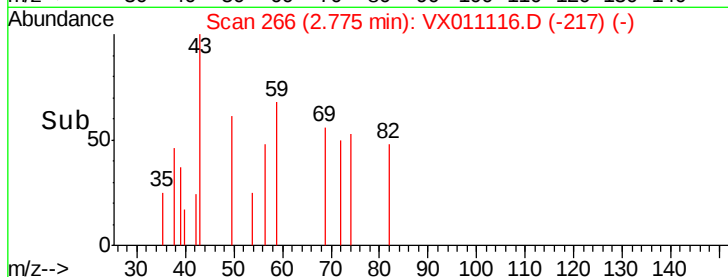
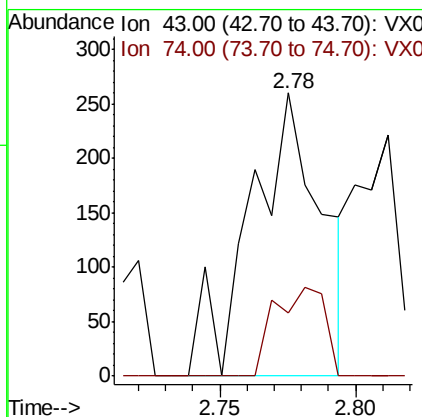
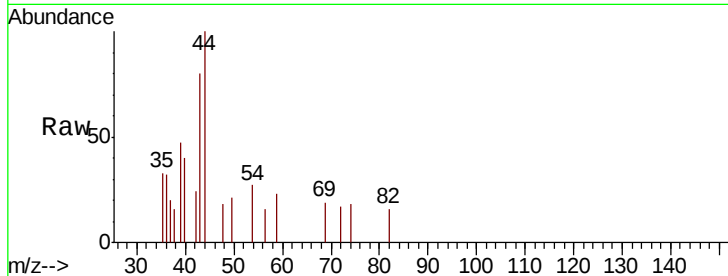




#18
Methvl Acetate
Concen: 0.230 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

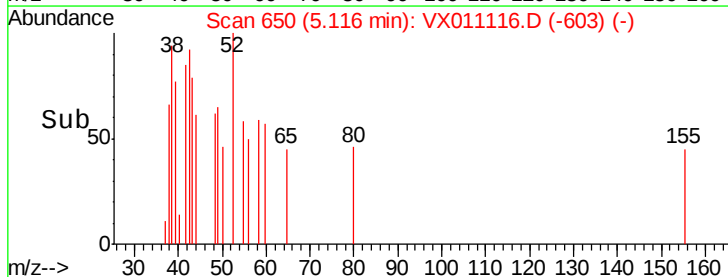
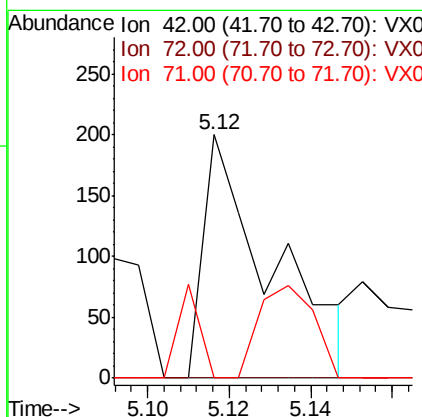
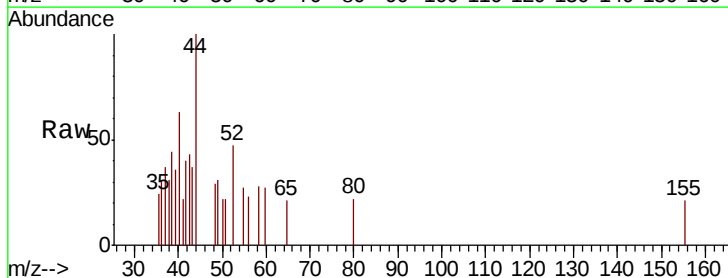
Instrument :
MSVOA_X
ClientSampled :
SU19-MSW0104

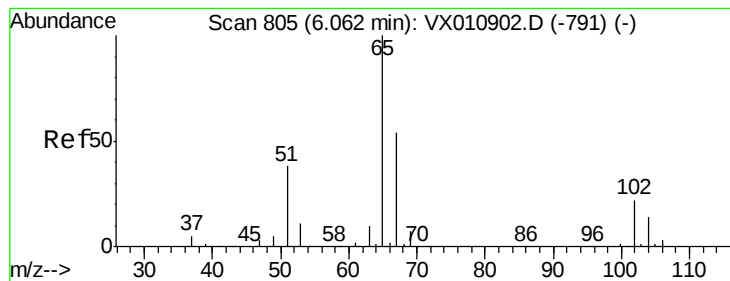
Tot Ion: 43 Resp: 471
Ion Ratio Lower Upper
43 100
74 22.3 21.5 32.3



#29
Tetrahydrofuran
Concen: 0.284 ug/l
RT: 5.12 min Scan# 650
Delta R.T. -0.01 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

Tgt Ion: 42 Resp: 233
Ion Ratio Lower Upper
42 100
72 0.0 39.8 59.8#
71 12.0 37.0 55.4#





#33

1,2-Dichloroethane-d4

Concen: 51.660 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

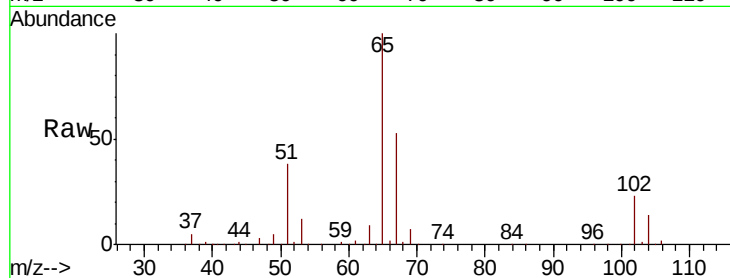
SU19-MSW0104

Tot Ion: 65 Resp: 103065

Ion Ratio Lower Upper

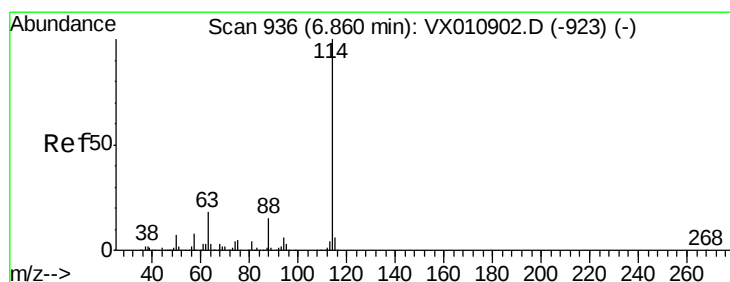
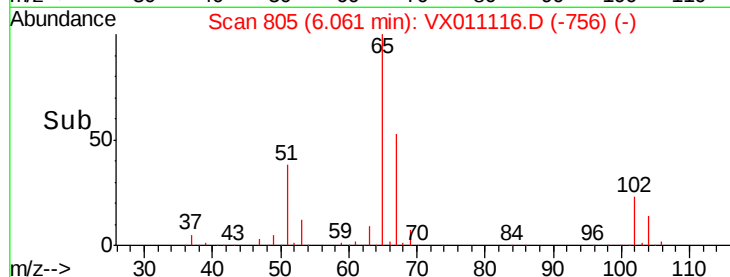
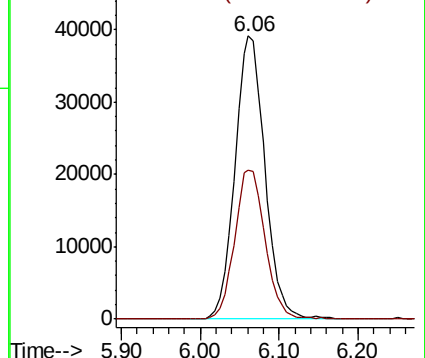
65 100

67 53.7 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

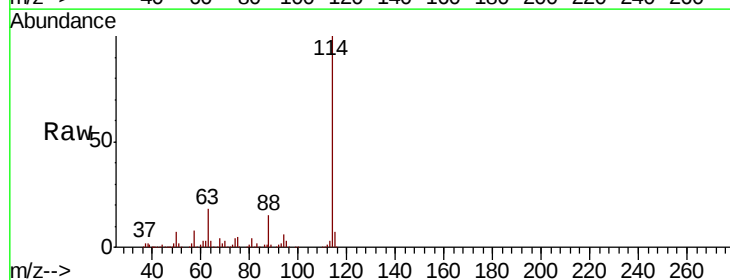
Tgt Ion: 114 Resp: 301267

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

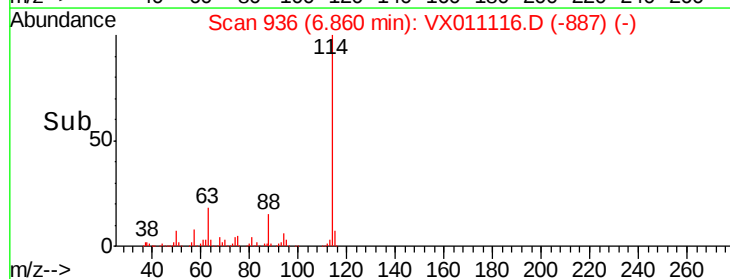
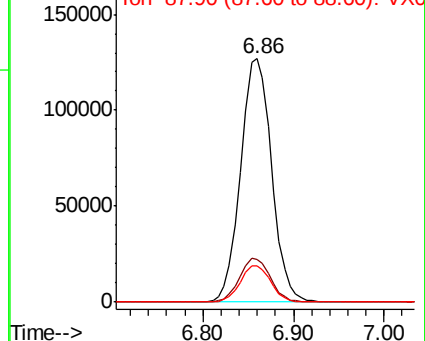
88 14.9 0.0 29.8

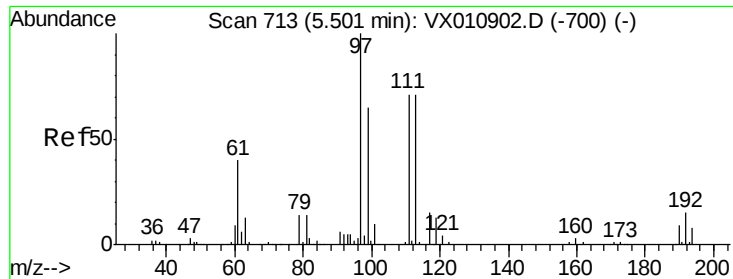


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.984 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0104

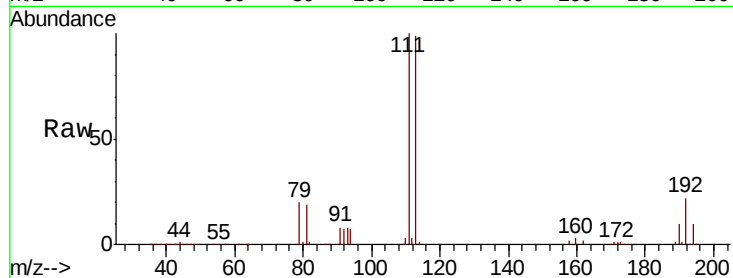
Tot Ion:113 Resp: 93667

Ion Ratio Lower Upper

113 100

111 102.8 82.3 123.5

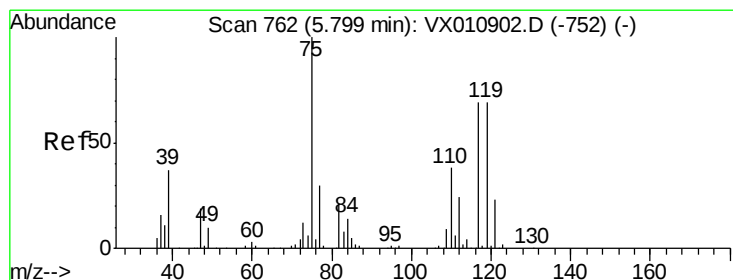
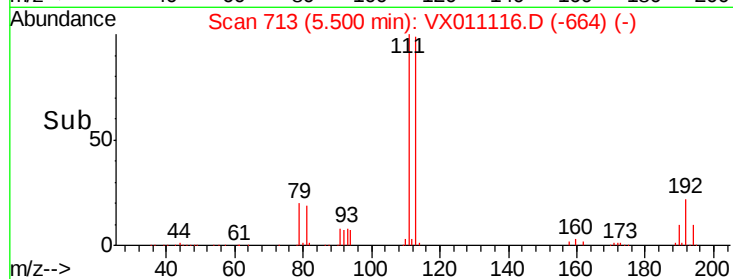
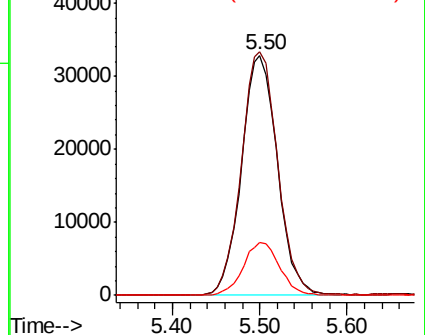
192 22.2 17.4 26.2



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: 5.083 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

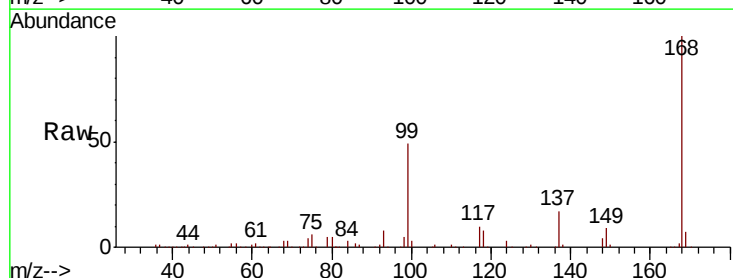
Tgt Ion: 75 Resp: 12579

Ion Ratio Lower Upper

75 100

110 11.0 19.9 59.7#

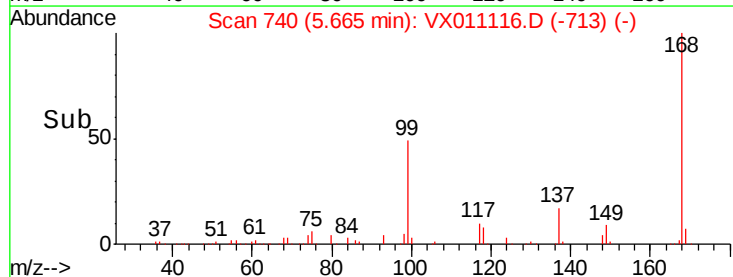
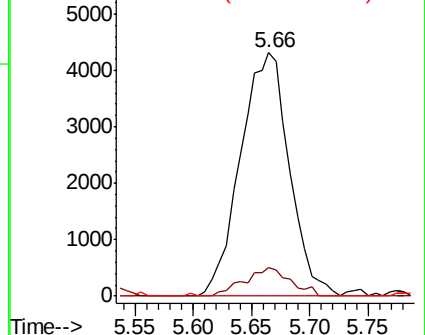
77 0.0 25.0 37.4#

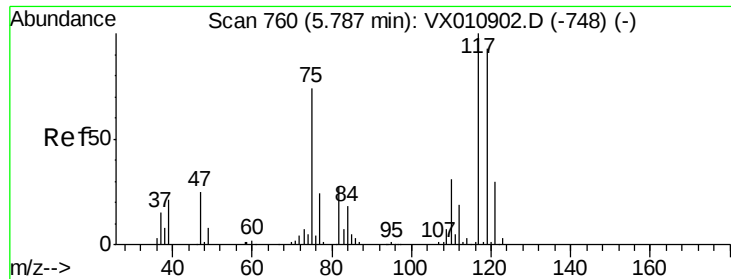


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

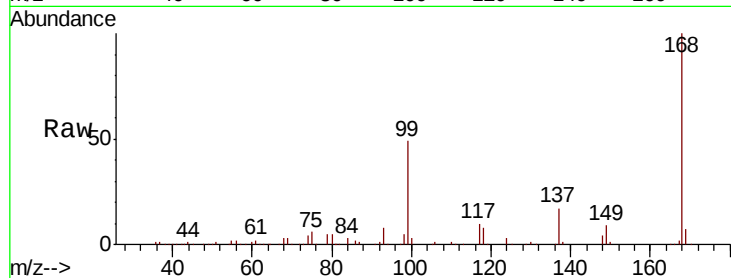




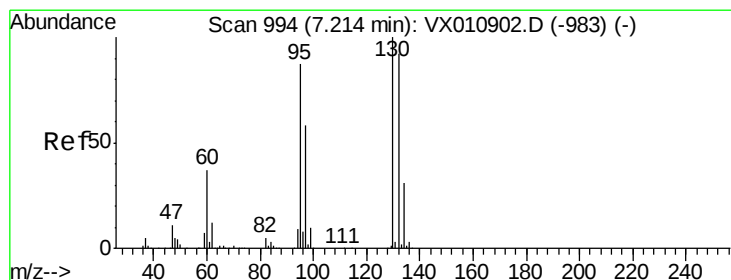
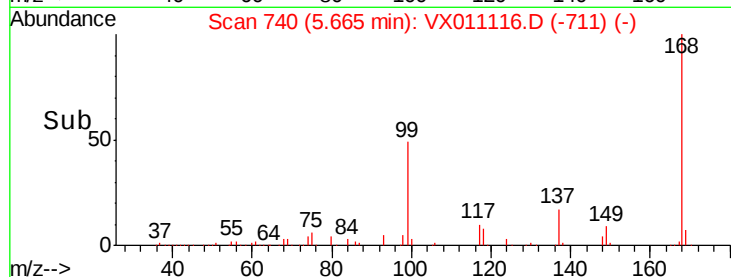
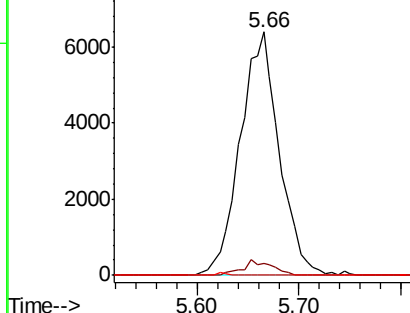
#38
Carbon Tetrachloride
Concen: 6.554 ug/l
RT: 5.66 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0104

Tot Ion:117 Resp: 16900
Ion Ratio Lower Upper
117 100
119 4.9 74.2 111.2#
121 0.0 24.2 36.2#

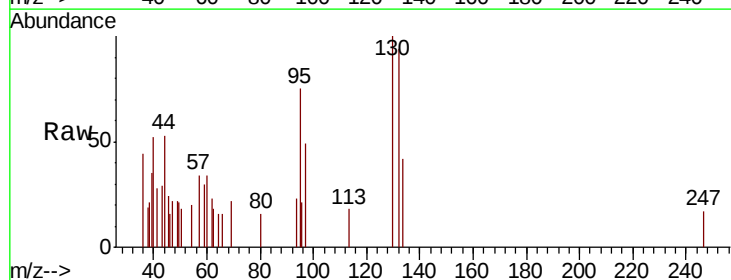


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

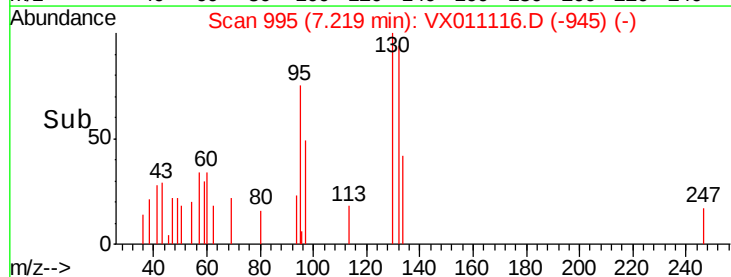
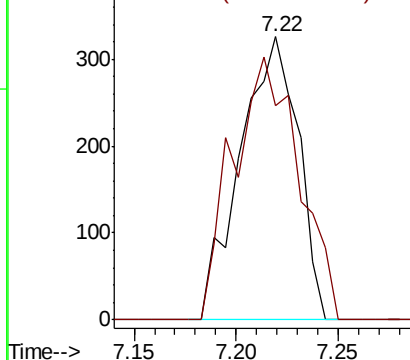


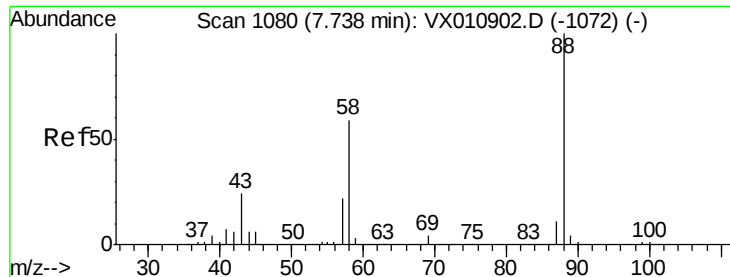
#44
Trichloroethene
Concen: 0.286 ug/l
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

Tgt Ion:130 Resp: 642
Ion Ratio Lower Upper
130 100
95 75.5 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

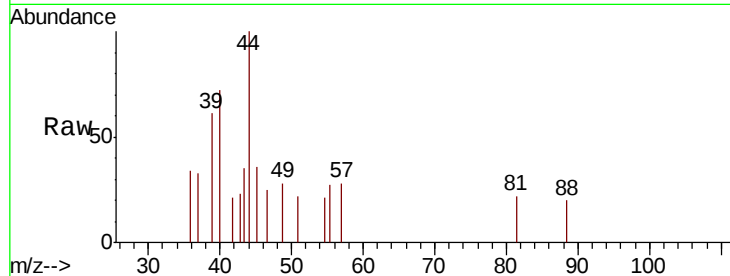




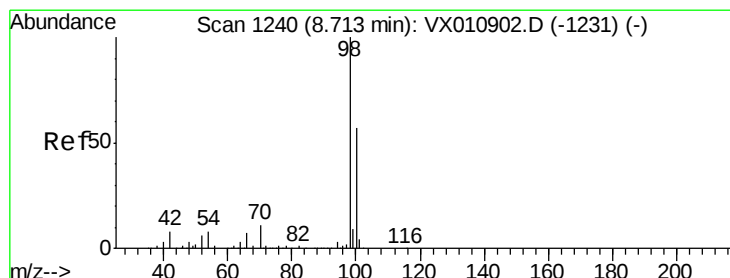
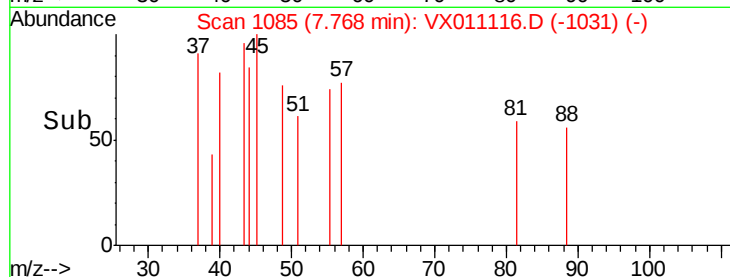
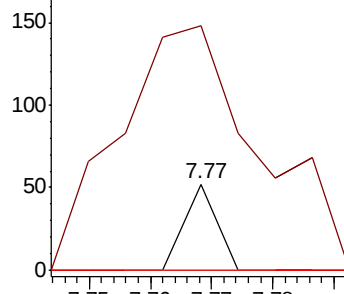
#49
1,4-Dioxane
Concen: 0.335 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0104

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1242.1 22.9 34.3#
58 0.0 49.8 74.8#

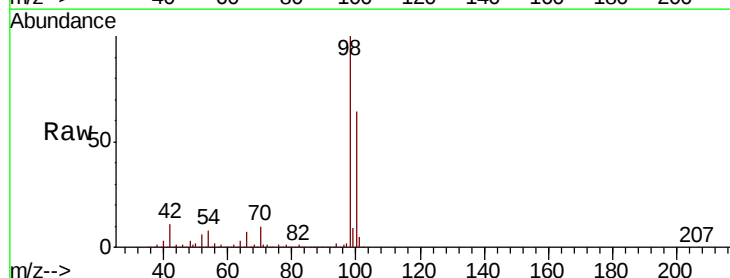


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

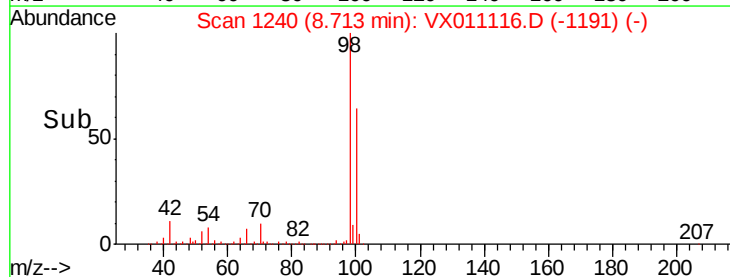
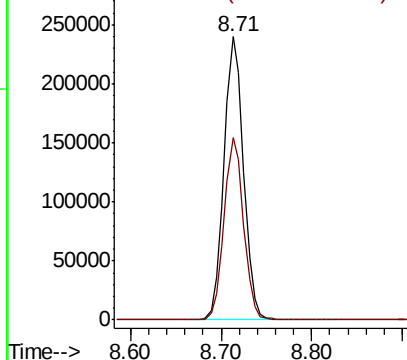


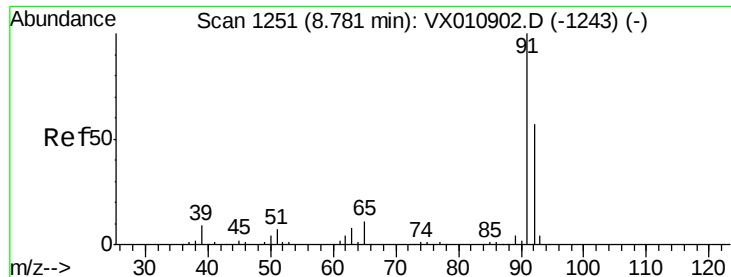
#50
Toluene-d8
Concen: 50.150 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011116.D
Acq: 27 Jul 2019 02:19

Tgt Ion: 98 Resp: 359677
Ion Ratio Lower Upper
98 100
100 64.2 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 0.372 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

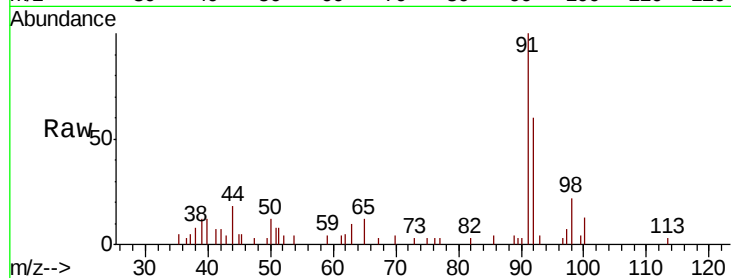
SU19-MSW0104

Tot Ion: 92 Resp: 1851

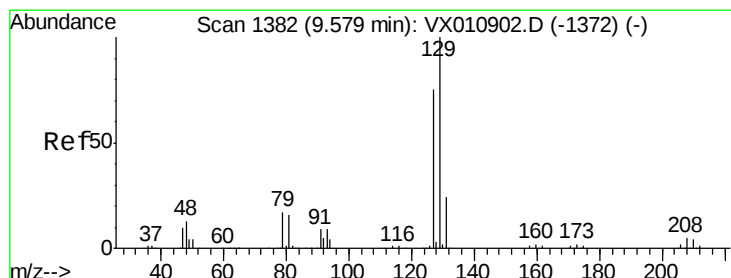
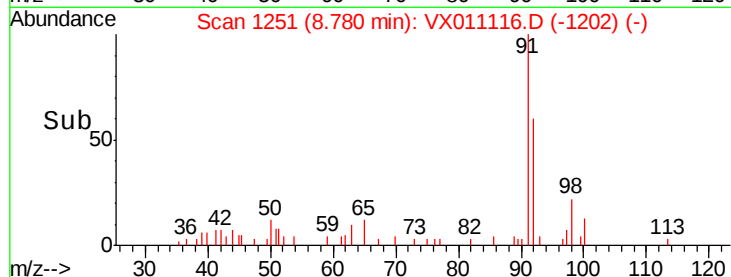
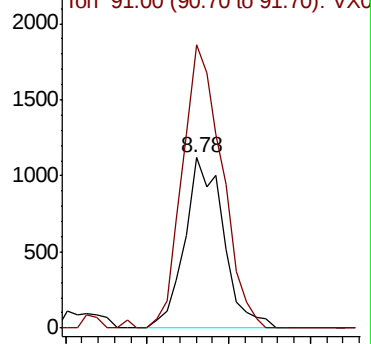
Ion Ratio Lower Upper

92 100

91 169.6 139.4 209.0



Abundance Ion 92.00 (91.70 to 92.70): VX010902.D (-1243) (-)



#60

Dibromochloromethane

Concen: 2.538 ug/l

RT: 9.61 min Scan# 1387

Delta R.T. 0.03 min

Lab File: VX011116.D

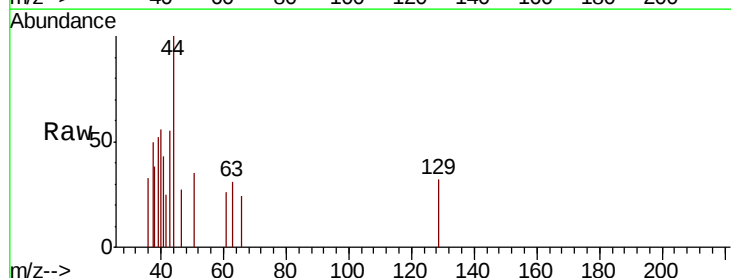
Acq: 27 Jul 2019 02:19

Tgt Ion: 129 Resp: 25

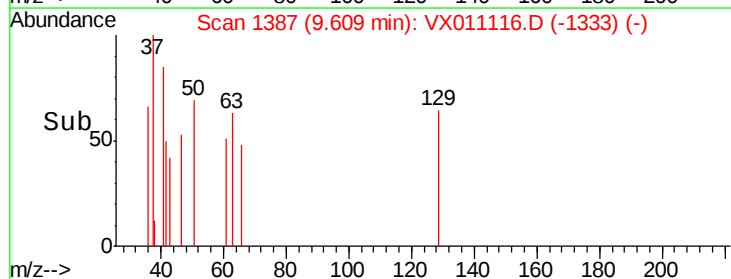
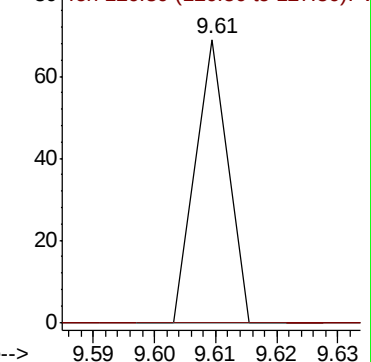
Ion Ratio Lower Upper

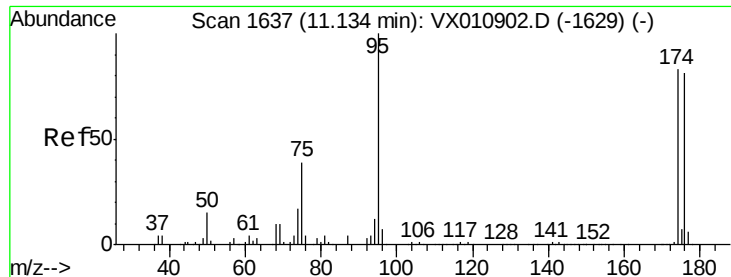
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 47.109 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0104

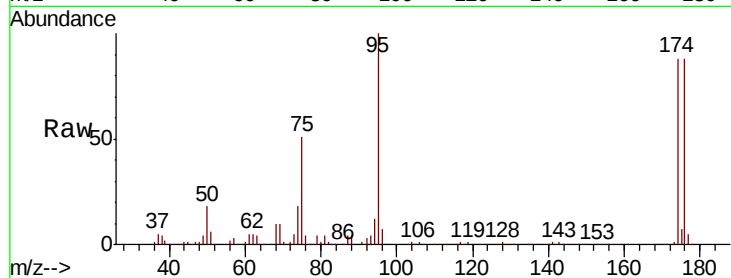
Tot Ion: 95 Resp: 124189

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.6

176 89.8 0.0 173.8

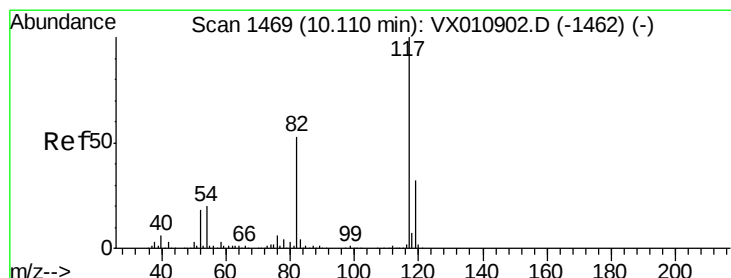
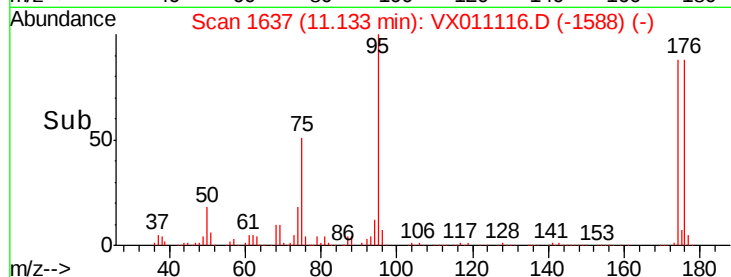


Abundance Ion 94.90 (94.60 to 95.60): VX010902.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX010902.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX010902.D (-1629) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

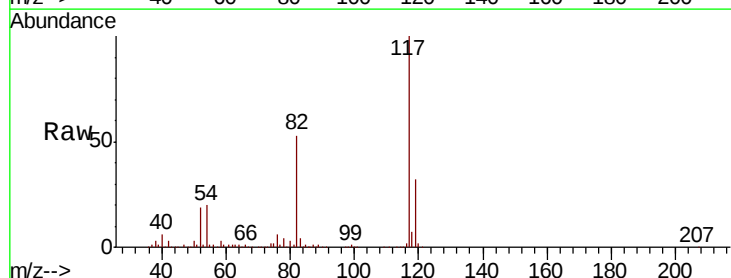
Tgt Ion: 117 Resp: 279737

Ion Ratio Lower Upper

117 100

82 52.9 42.6 63.8

119 32.5 25.9 38.9

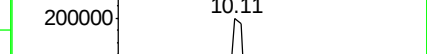
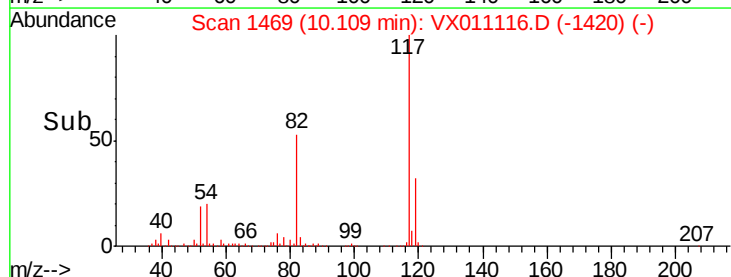


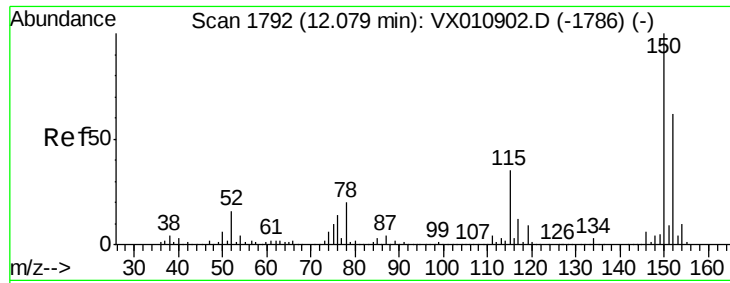
Abundance Ion 116.90 (116.60 to 117.60): VX010902.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010902.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010902.D (-1462) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0104

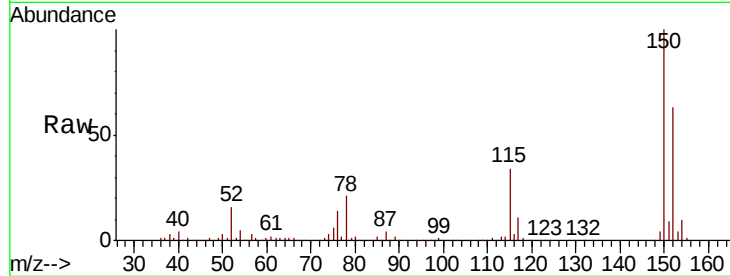
Tot Ion:152 Resp: 126949

Ion Ratio Lower Upper

152 100

115 56.4 39.7 119.1

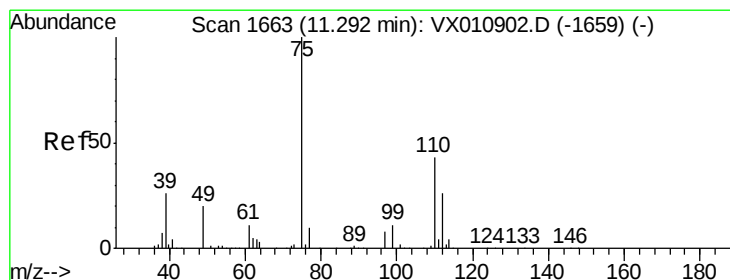
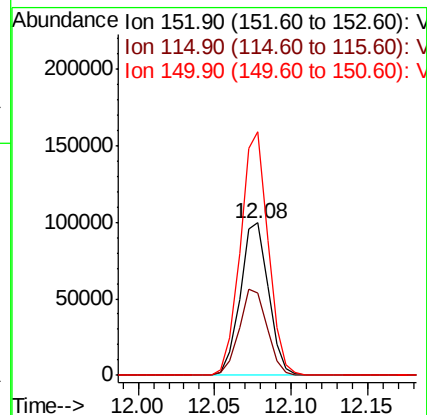
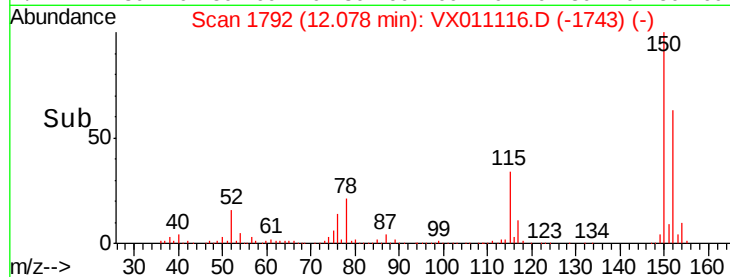
150 156.7 0.0 345.6



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: 27.602 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011116.D

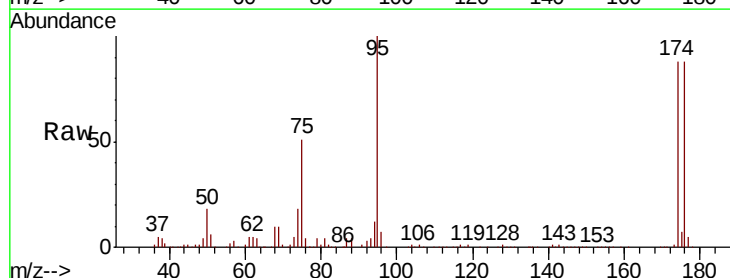
Acq: 27 Jul 2019 02:19

Tgt Ion: 75 Resp: 63232

Ion Ratio Lower Upper

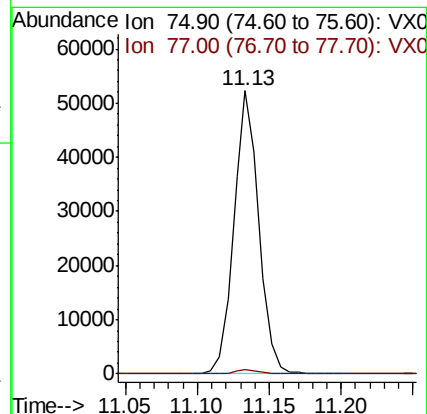
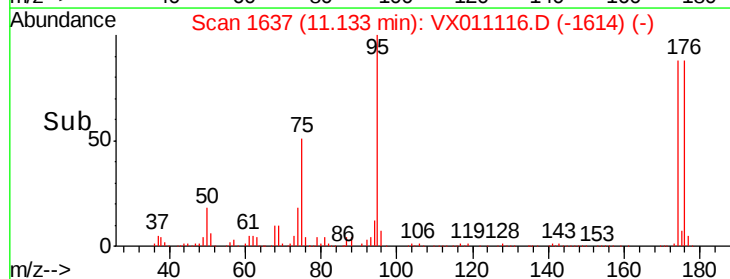
75 100

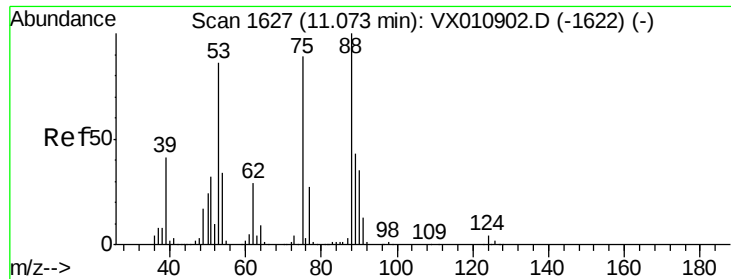
77 1.7 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.344 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011116.D

Acq: 27 Jul 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0104

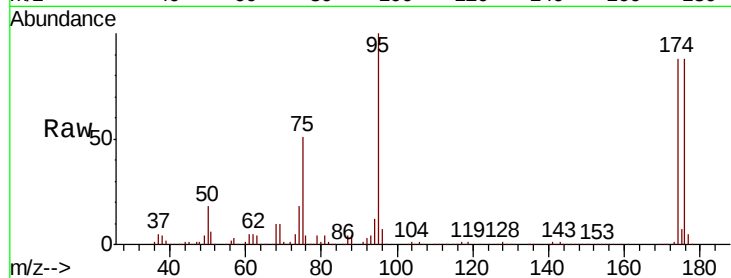
Tot Ion: 75 Resp: 63232

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.1 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

