

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051120\
 Data File : VX016160.D
 Acq On : 11 May 2020 19:28
 Operator : JC/SP
 Sample : L2571-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CHASSIE-WASH

Quant Time: May 12 07:01:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	293318	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	485229	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	479090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	249358	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	180435	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
35) Dibromofluoromethane	5.47	113	145731	47.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.82%	
50) Toluene-d8	8.70	98	610120	51.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.02%	
62) 4-Bromofluorobenzene	11.12	95	245247	54.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.88%	

Target Compounds

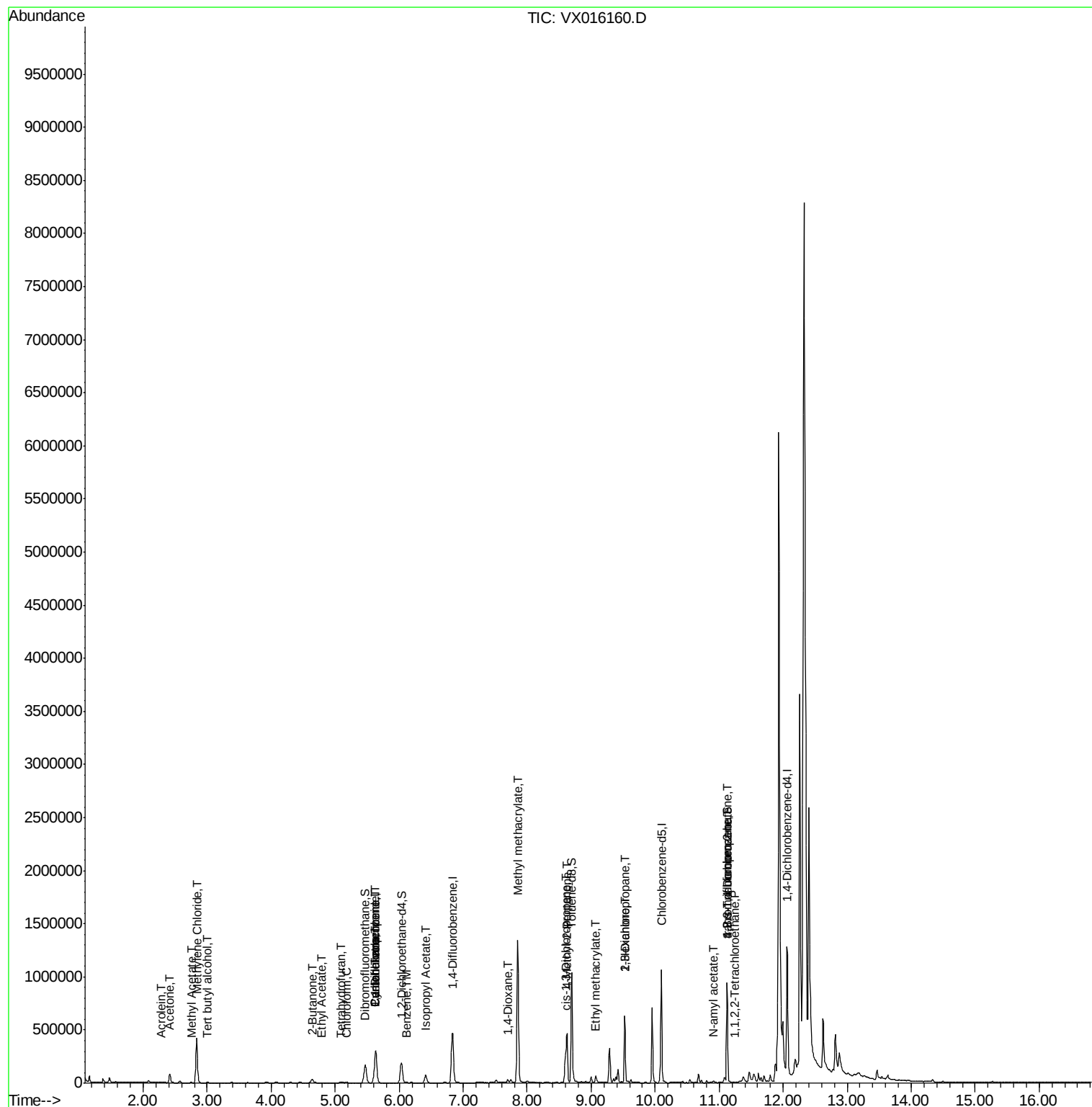
					Qvalue
11) Tert butyl alcohol	3.00	59	4112	4.213	ug/l 98
13) Acrolein	2.28	56	1108	1.814	ug/l 88
16) Acetone	2.42	43	82913	48.144	ug/l 100
17) Carbon Disulfide	2.55	76	1784	Below Cal	# 80
18) Methyl Acetate	2.75	43	5313	1.255	ug/l 97
20) Methylene Chloride	2.84	84	192136	54.119	ug/l 99
25) 2-Butanone	4.64	43	46481	16.749	ug/l 97
29) Tetrahydrofuran	5.09	42	808	0.439	ug/l # 75
30) Chloroform	5.18	83	3674	0.625	ug/l # 81
31) Cyclohexane	5.62	56	5817	1.085	ug/l # 9
36) 1,1-Dichloropropene	5.63	75	22168	4.641	ug/l # 49
37) Ethyl Acetate	4.80	43	1440	0.260	ug/l # 87
38) Carbon Tetrachloride	5.63	117	28323	5.834	ug/l # 14
40) Benzene	6.12	78	3324	0.238	ug/l 99
43) Isopropyl Acetate	6.42	43	95777	10.843	ug/l 100
48) Methyl methacrylate	7.85	41	112056	26.773	ug/l # 41
49) 1,4-Dioxane	7.69	88	32	0.319	ug/l # 1
51) 4-Methyl-2-Pentanone	8.62	43	328284	60.735	ug/l 90
54) cis-1,3-Dichloropropene	8.60	75	39983	6.560	ug/l # 62
56) Ethyl methacrylate	9.07	69	11410	2.040	ug/l 91
57) 1,3-Dichloropropane	9.52	76	5545	0.927	ug/l # 43
59) 2-Hexanone	9.52	43	67270	15.848	ug/l # 50
74) N-amyl acetate	10.91	43	4198	0.496	ug/l # 78
75) 1,1,2,2-Tetrachloroethane	11.24	83	332	2.147	ug/l # 26
76) 1,2,3-Trichloropropane	11.12	75	120977	21.380	ug/l # 36
81) trans-1,4-Dichloro-2-buten	11.12	75	120977	50.949	ug/l # 13

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

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Instrument :
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Quant Time: May 12 07:01:36 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

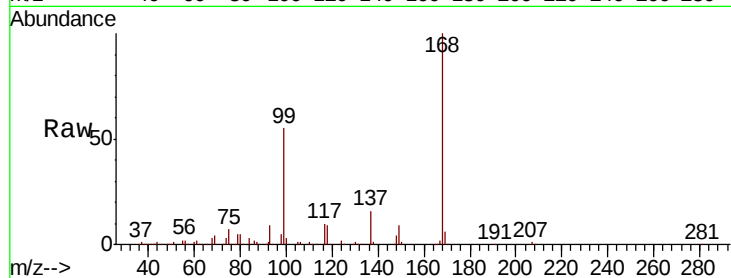
CHASSIE-WASH

Tot Ion:168 Resp: 293318

Ion Ratio Lower Upper

168 100

99 55.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

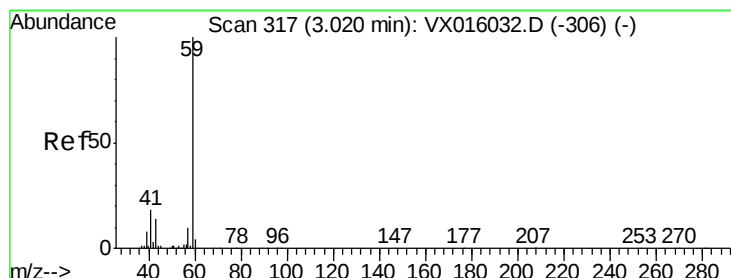
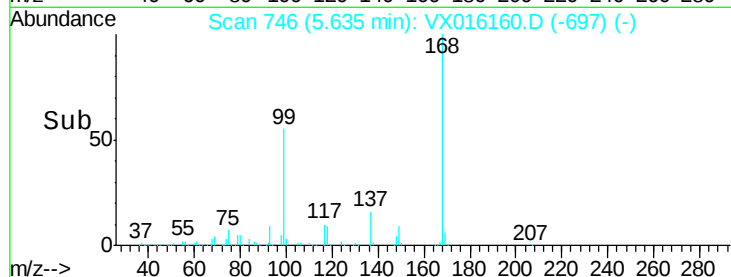
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.213 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016160.D

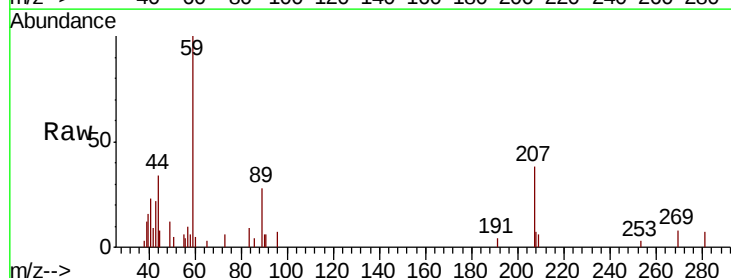
Acq: 11 May 2020 19:28

Tgt Ion: 59 Resp: 4112

Ion Ratio Lower Upper

59 100

57 11.2 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

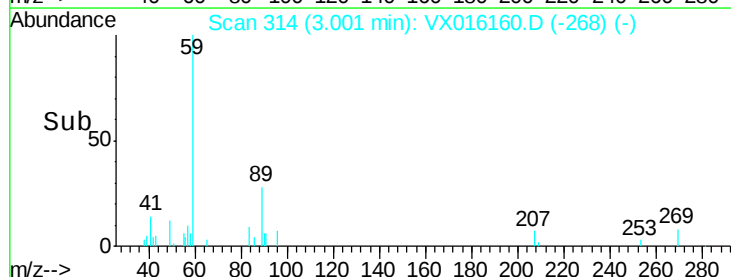
1500

1000

500

0

Time-->





#13

Acrolein

Concen: 1.814 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

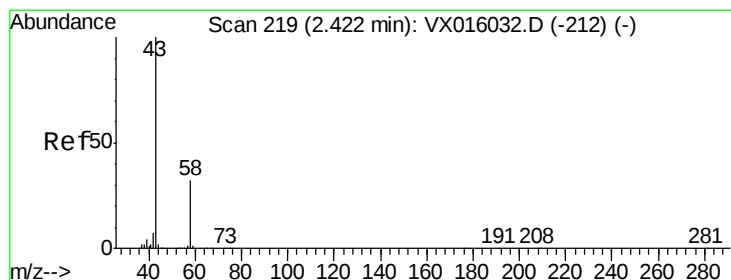
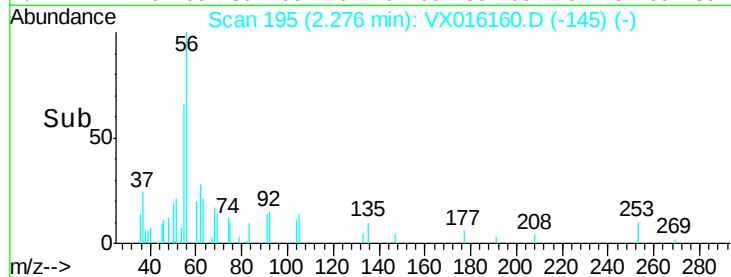
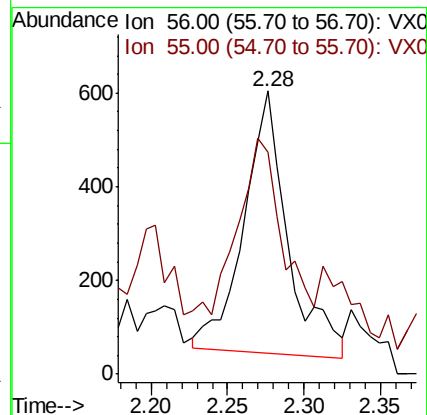
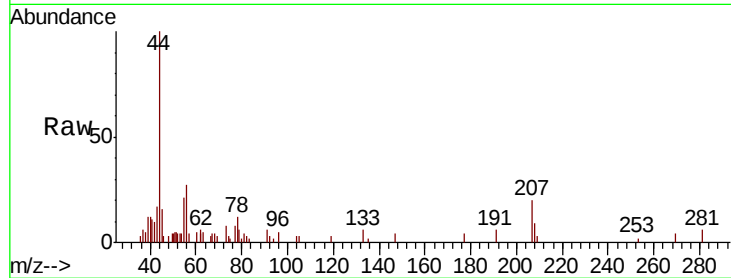
CHASSIE-WASH

Tot Ion: 56 Resp: 1108

Ion Ratio Lower Upper

56 100

55 80.4 56.5 84.7



#16

Acetone

Concen: 48.144 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016160.D

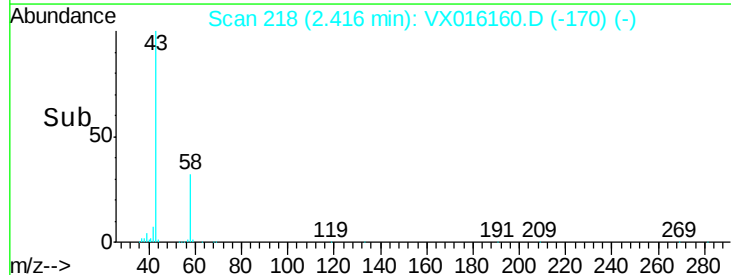
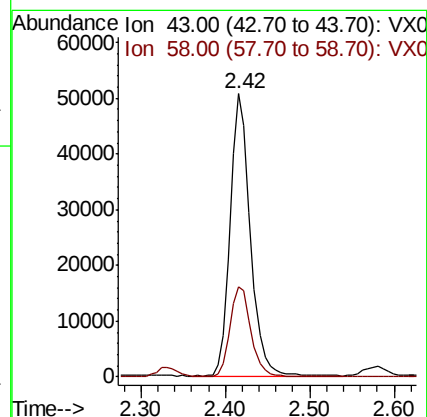
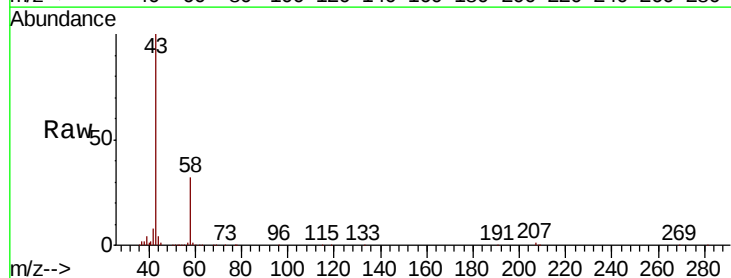
Acq: 11 May 2020 19:28

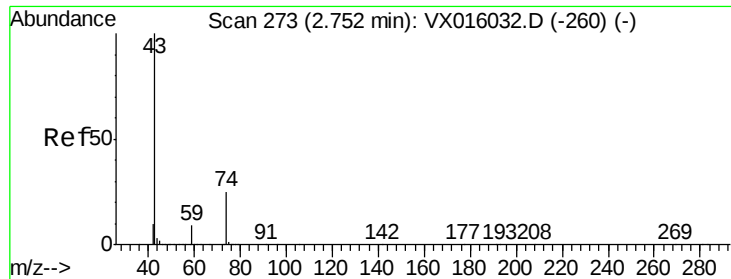
Tgt Ion: 43 Resp: 82913

Ion Ratio Lower Upper

43 100

58 31.8 25.4 38.0

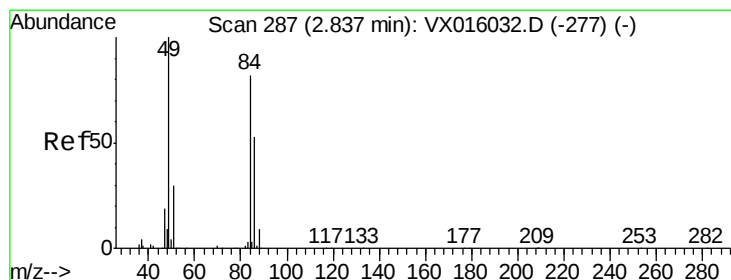
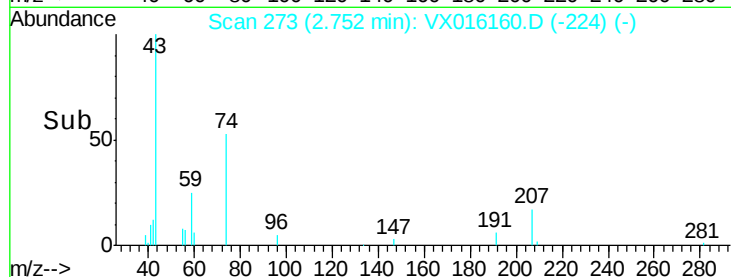
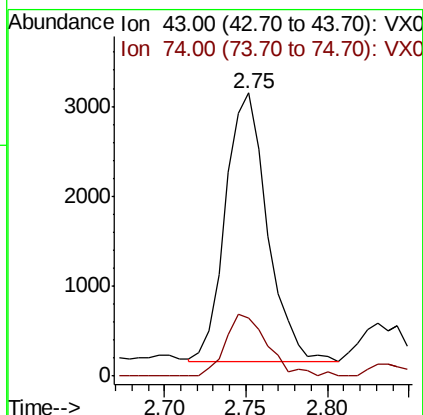
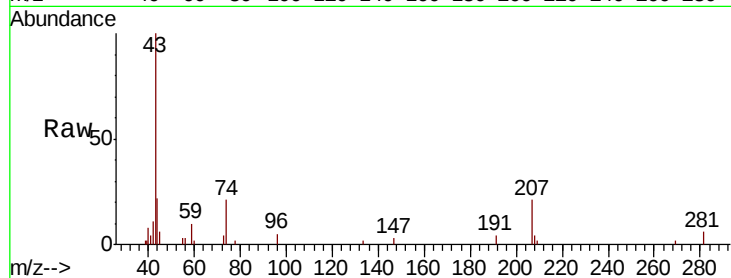




#18
Methvl Acetate
Concen: 1.255 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

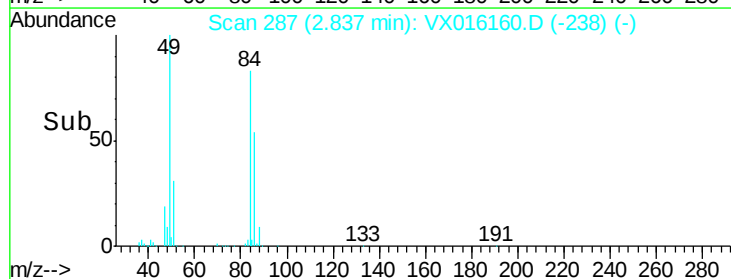
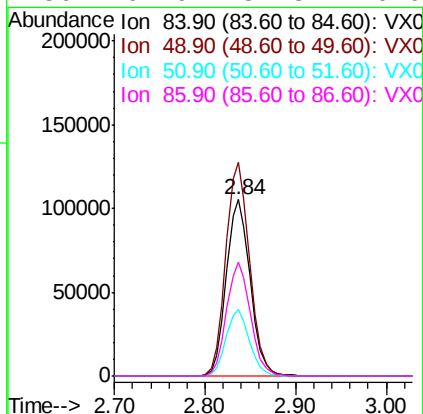
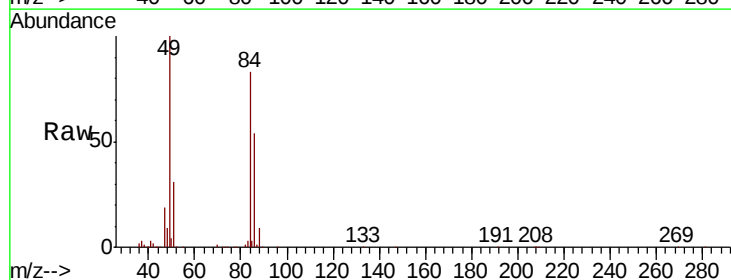
Instrument :
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ClientSampleId :
CHASSIE-WASH

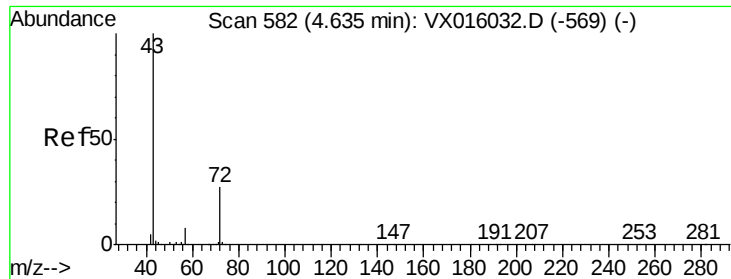
Tot Ion: 43 Resp: 5313
Ion Ratio Lower Upper
43 100
74 23.5 20.2 30.2



#20
Methylene Chloride
Concen: 54.119 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

Tgt Ion: 84 Resp: 192136
Ion Ratio Lower Upper
84 100
49 121.0 97.3 145.9
51 37.6 29.3 43.9
86 64.9 51.3 76.9





#25

2-Butanone

Concen: 16.749 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

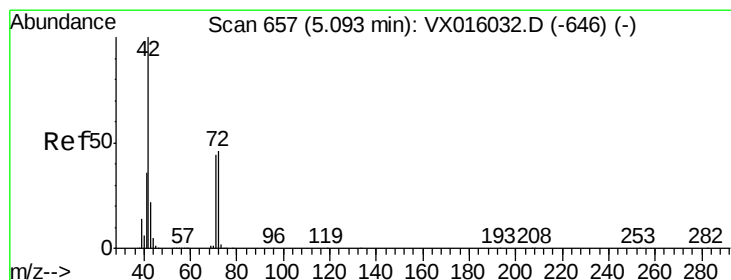
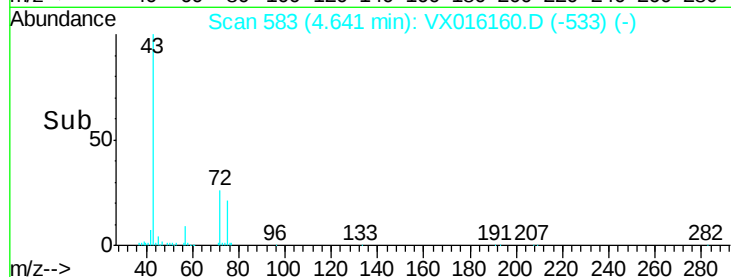
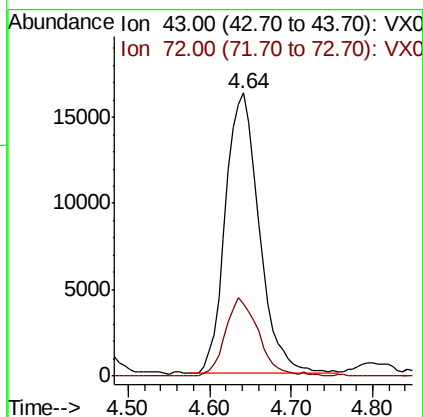
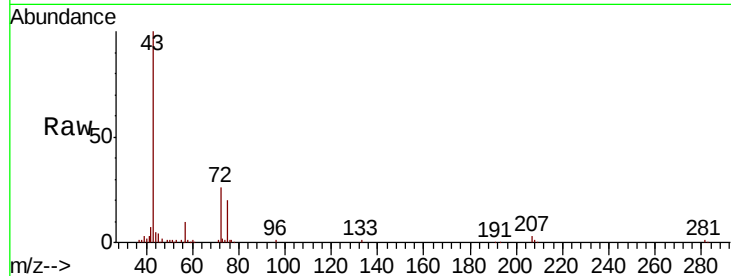
CHASSIE-WASH

Tot Ion: 43 Resp: 46481

Ion Ratio Lower Upper

43 100

72 26.0 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.439 ug/l

RT: 5.09 min Scan# 656

Delta R.T. -0.01 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

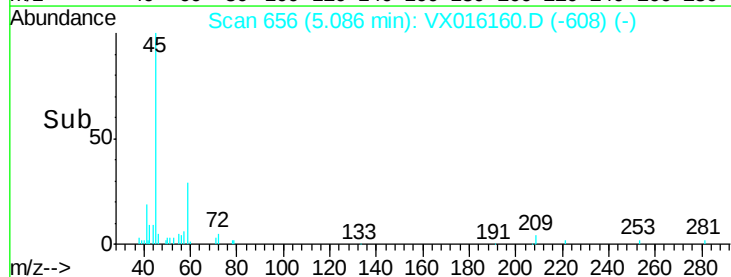
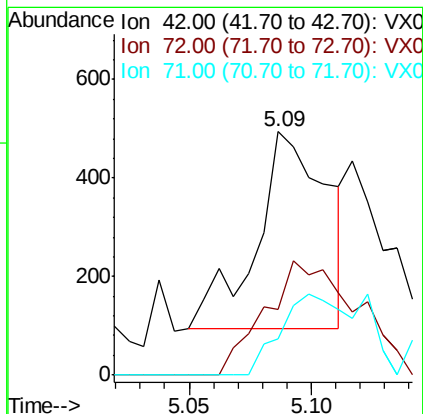
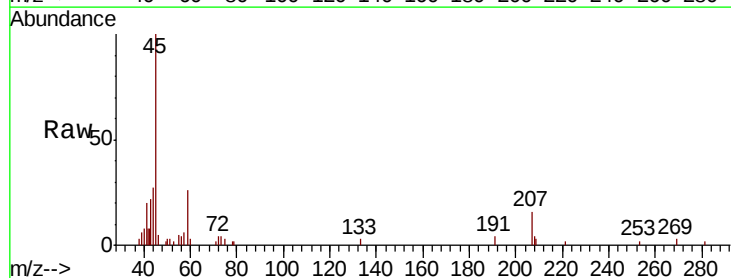
Tgt Ion: 42 Resp: 808

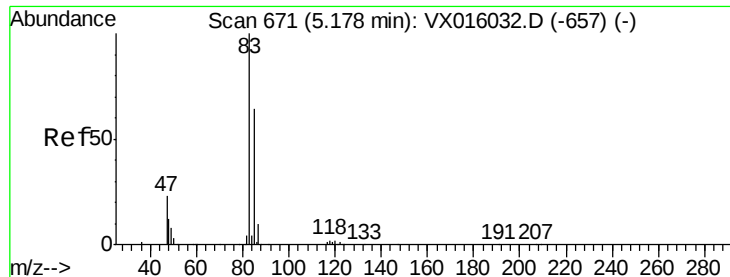
Ion Ratio Lower Upper

42 100

72 74.0 37.1 55.7#

71 47.9 34.5 51.7

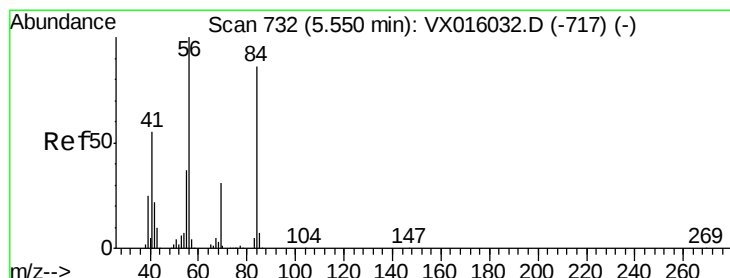
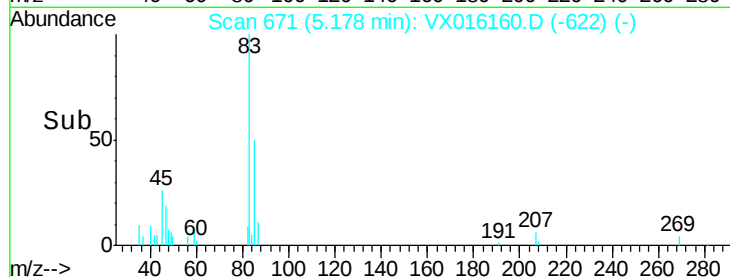
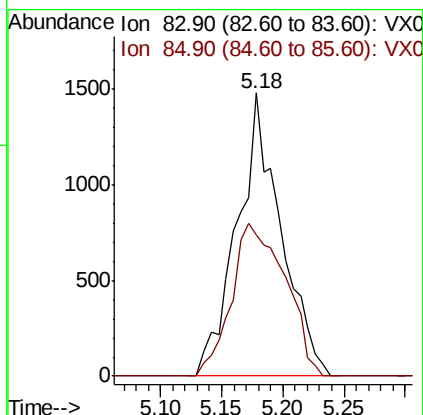
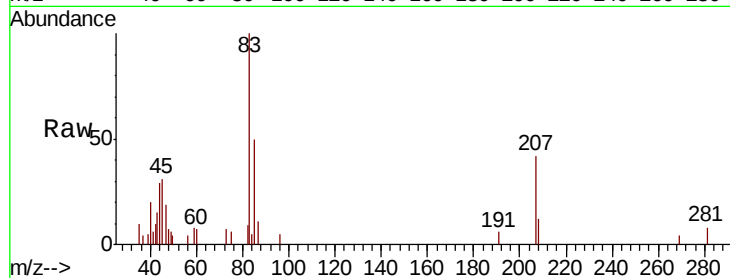




#30
Chloroform
Concen: 0.625 ug/l
RT: 5.18 min Scan# 671
Delta R.T. -0.00 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

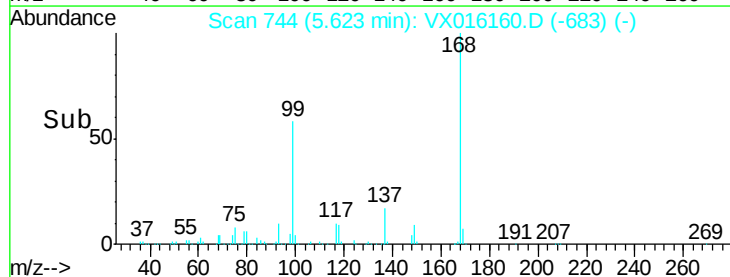
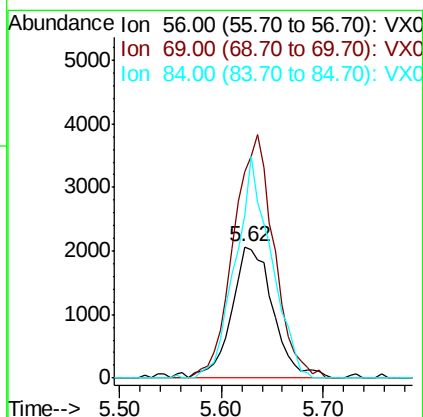
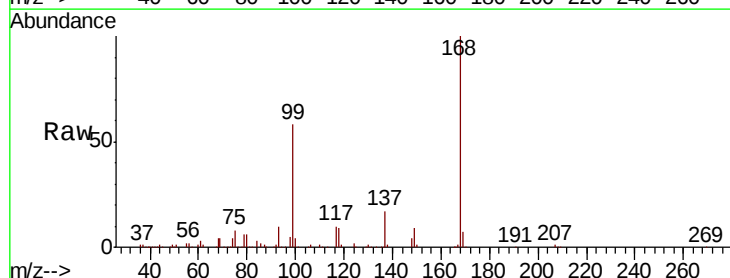
Instrument :
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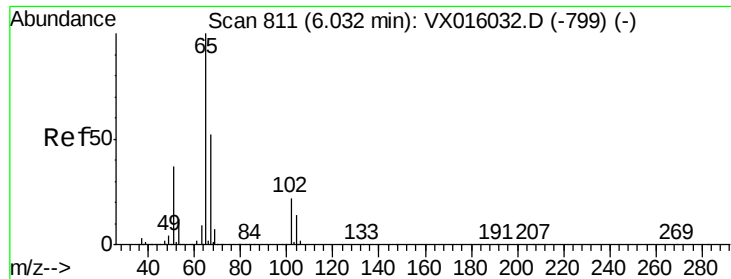
Tot Ion: 83 Resp: 3674
Ion Ratio Lower Upper
83 100
85 49.9 51.6 77.4#



#31
Cyclohexane
Concen: 1.085 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

Tgt Ion: 56 Resp: 5817
Ion Ratio Lower Upper
56 100
69 156.9 25.0 37.6#
84 123.9 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 46.748 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

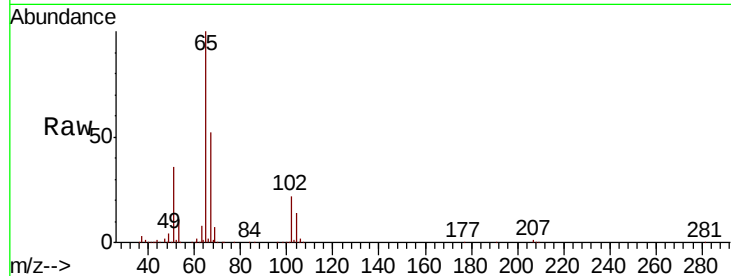
CHASSIE-WASH

Tot Ion: 65 Resp: 180435

Ion Ratio Lower Upper

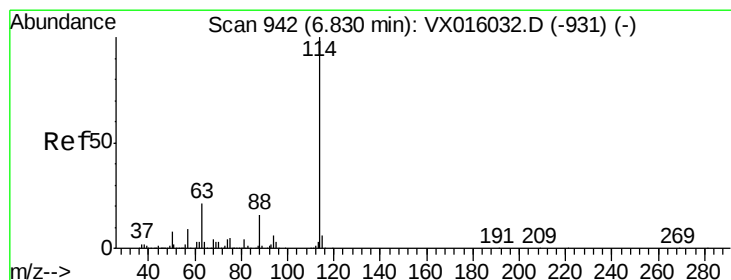
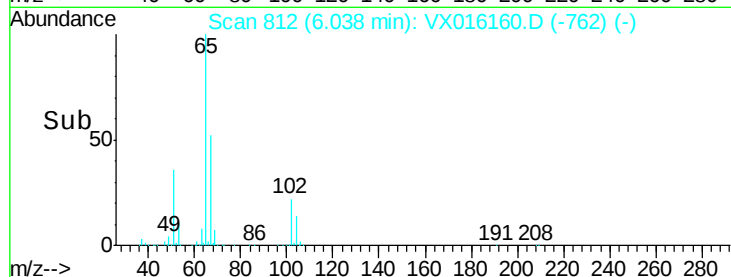
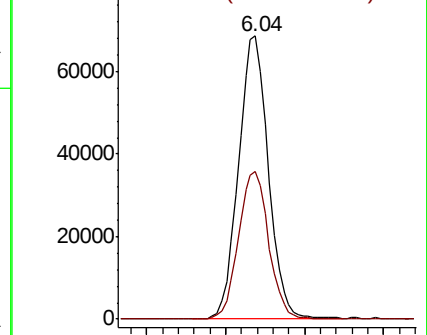
65 100

67 52.7 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

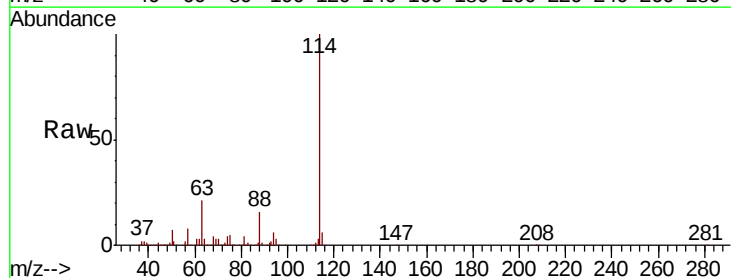
Tgt Ion: 114 Resp: 485229

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

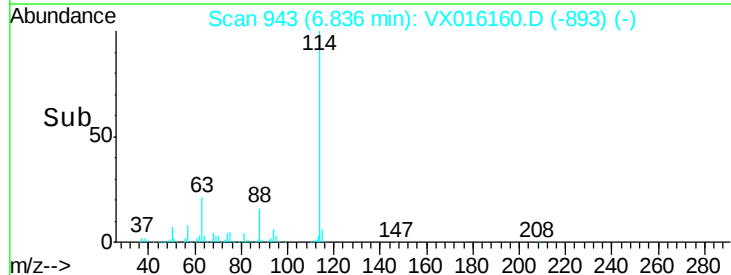
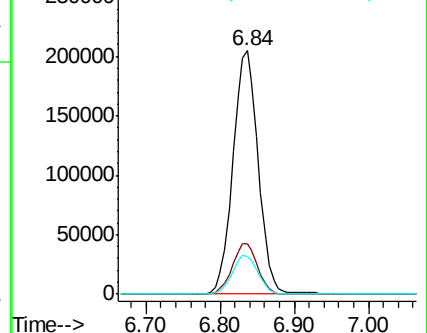
88 15.6 0.0 31.4

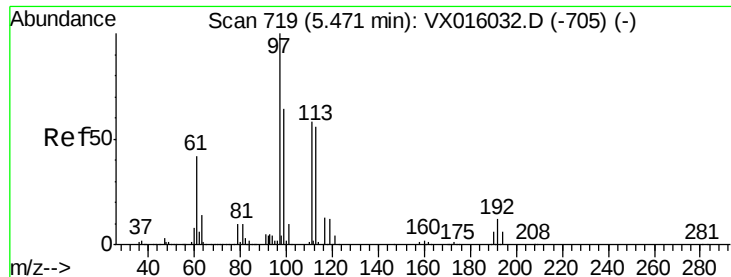


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

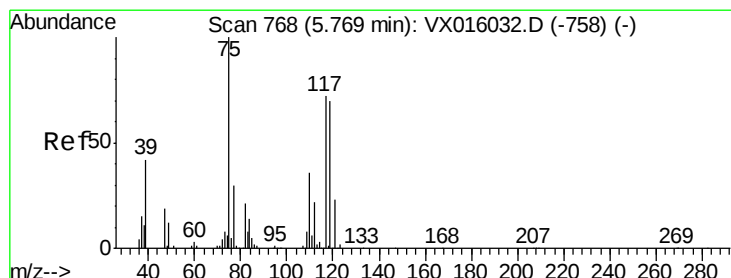
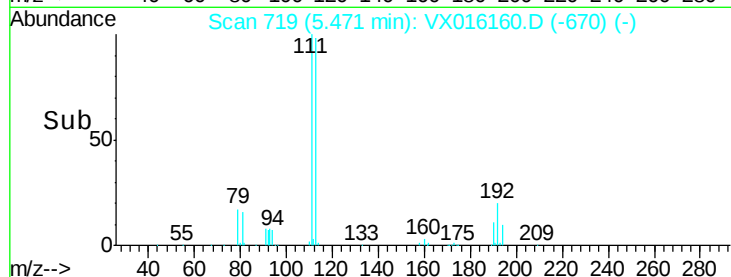
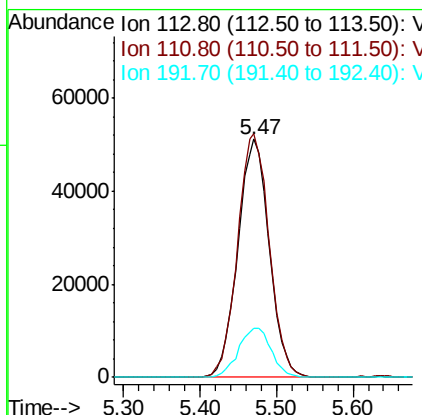
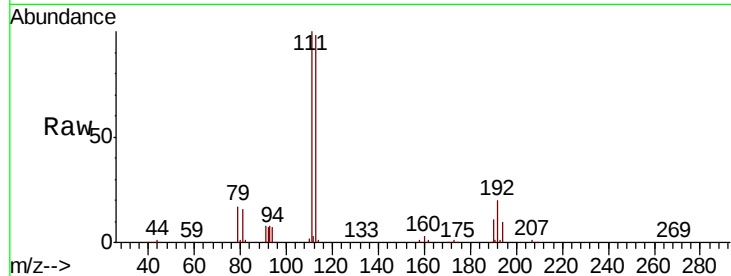




#35
 Dibromofluoromethane
 Concen: 47.406 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX016160.D
 Acq: 11 May 2020 19:28

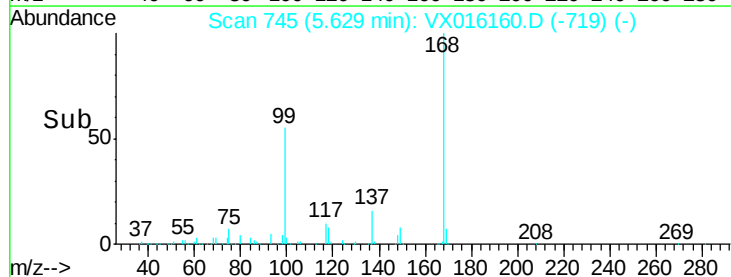
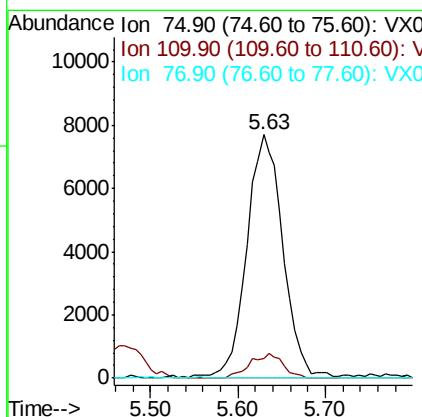
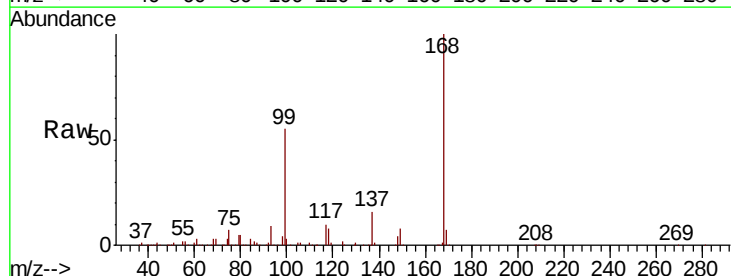
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 CHASSIE-WASH

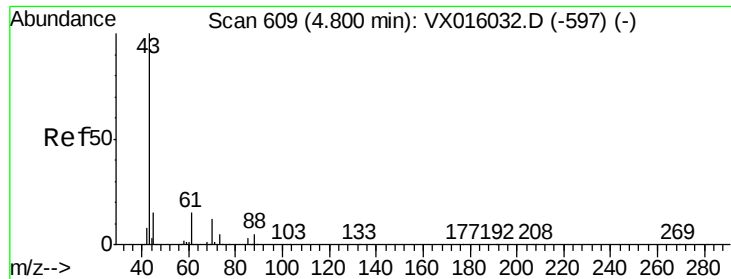
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.6	122.4
192	21.5	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.641 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016160.D
 Acq: 11 May 2020 19:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.1#
77	0.0	25.0	37.6#

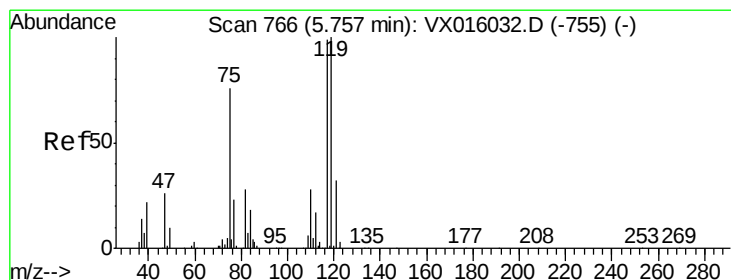
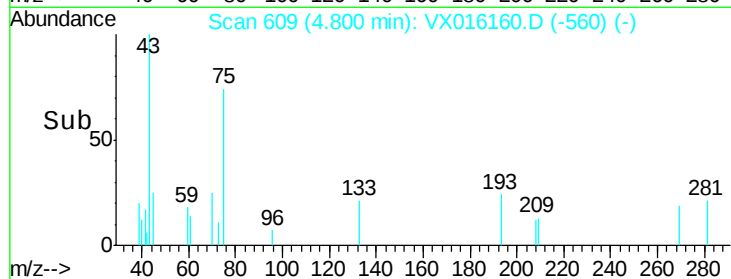
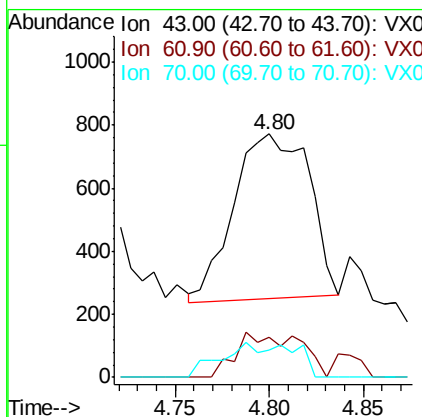
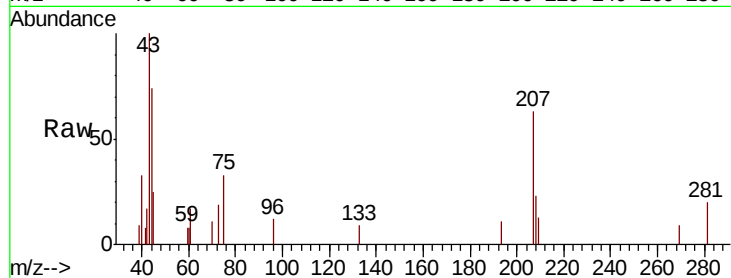




#37
Ethyl Acetate
Concen: 0.260 ug/l
RT: 4.80 min Scan# 609
Delta R.T. -0.00 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

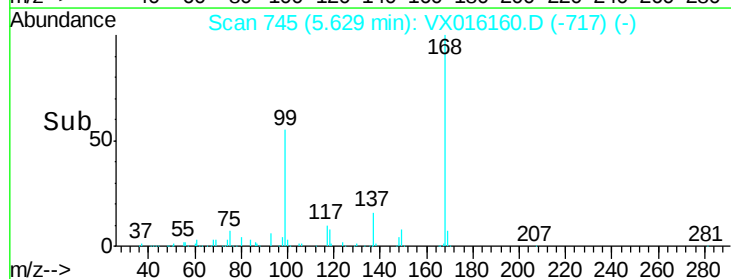
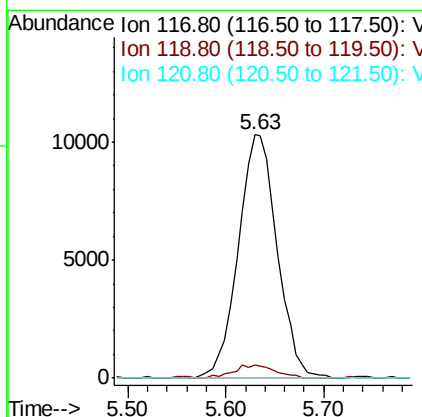
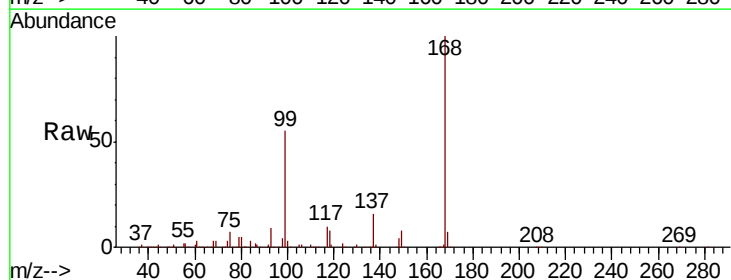
Instrument :
MSVOA_X
ClientSampleId :
CHASSIE-WASH

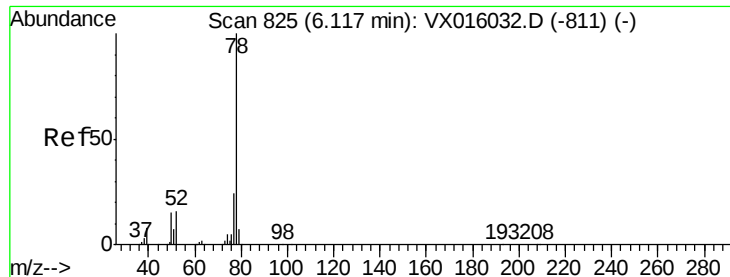
Tot Ion: 43 Resp: 1440
Ion Ratio Lower Upper
43 100
61 22.8 11.7 17.5#
70 13.1 9.3 13.9



#38
Carbon Tetrachloride
Concen: 5.834 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

Tgt Ion: 117 Resp: 28323
Ion Ratio Lower Upper
117 100
119 5.4 80.3 120.5#
121 0.0 25.7 38.5#





#40

Benzene

Concen: 0.238 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

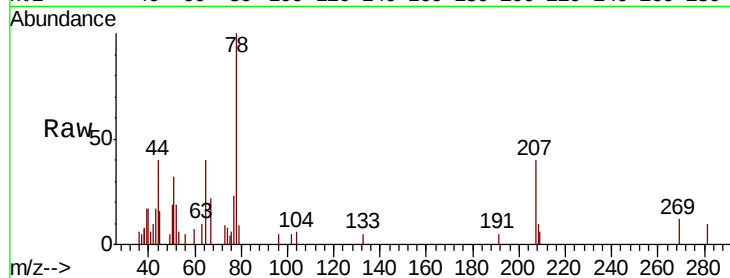
CHASSIE-WASH

Tot Ion: 78 Resp: 3324

Ion Ratio Lower Upper

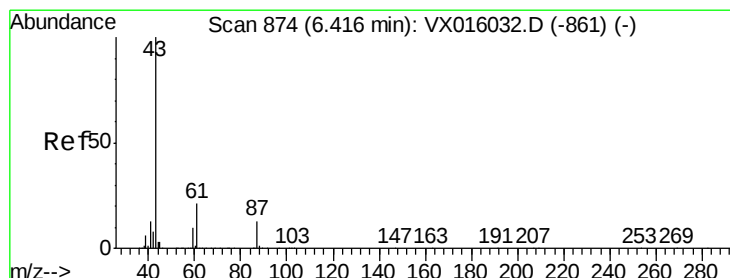
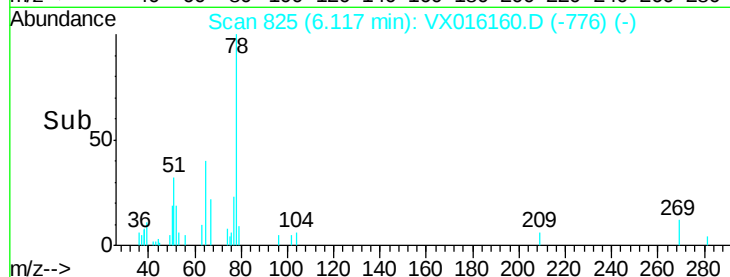
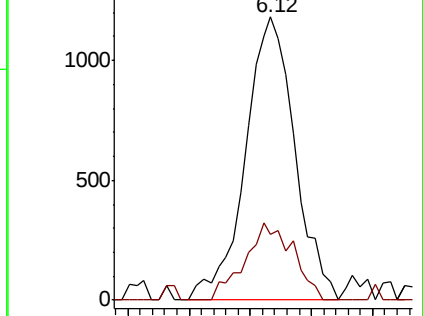
78 100

77 23.4 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#43

Isopropyl Acetate

Concen: 10.843 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

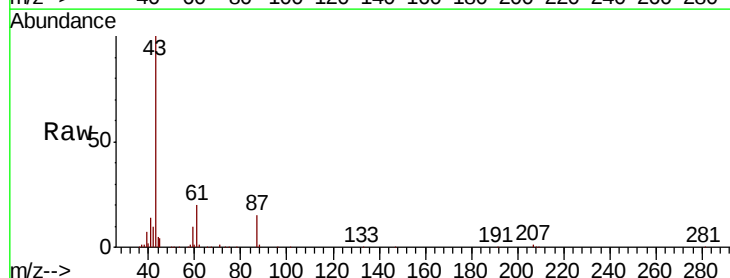
Tgt Ion: 43 Resp: 95777

Ion Ratio Lower Upper

43 100

61 21.3 17.0 25.4

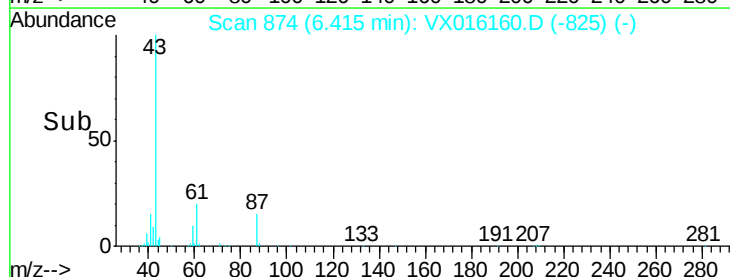
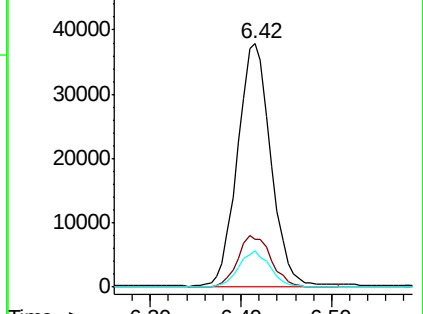
87 13.9 11.0 16.6

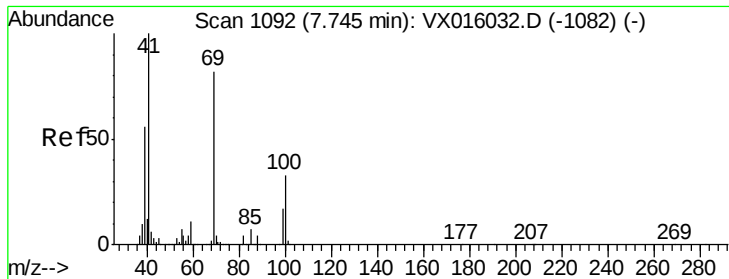


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

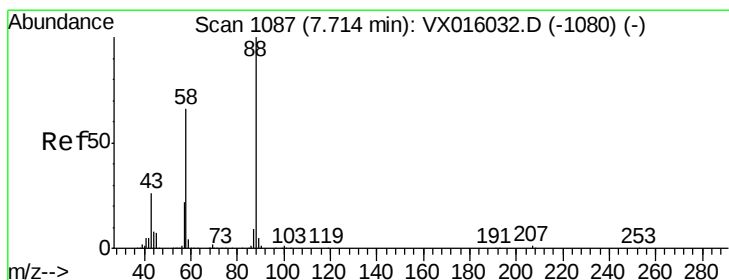
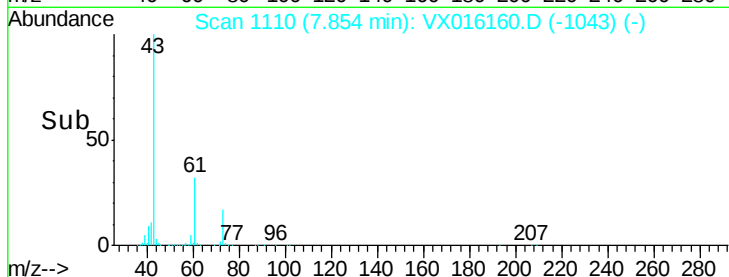
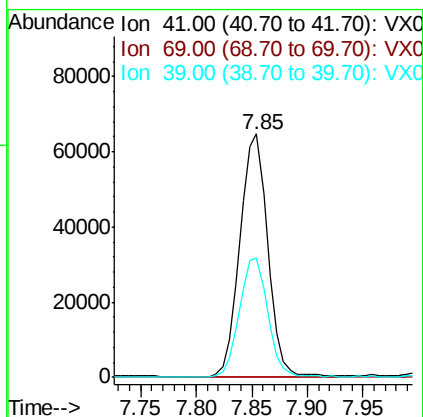
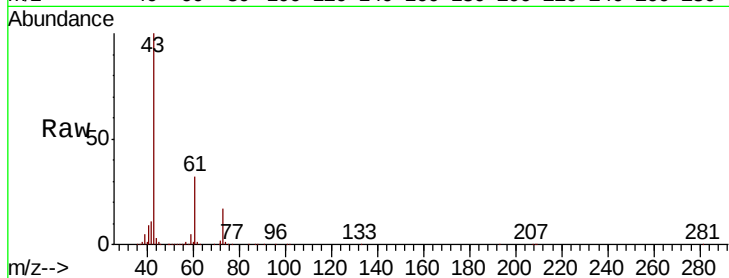




#48
Methyl methacrylate
Concen: 26.773 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.11 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

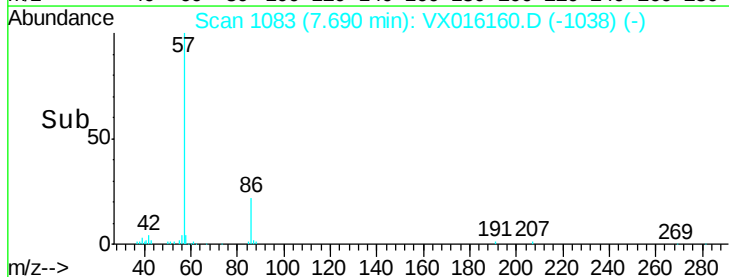
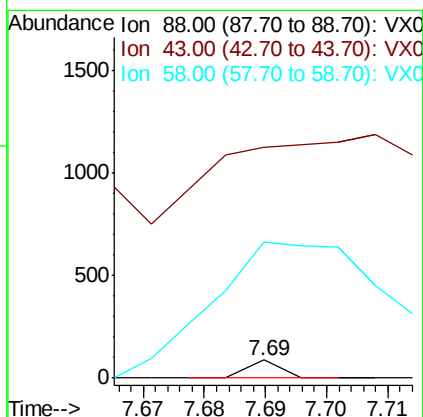
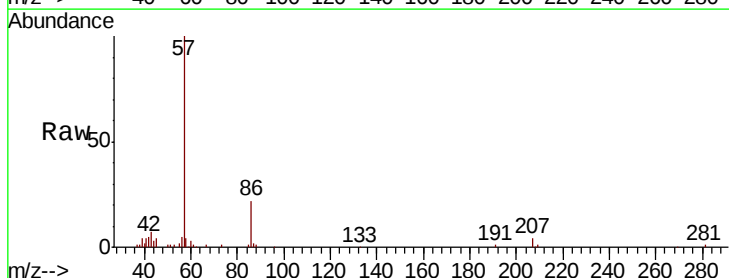
Instrument :
MSVOA_X
ClientSampleId :
CHASSIE-WASH

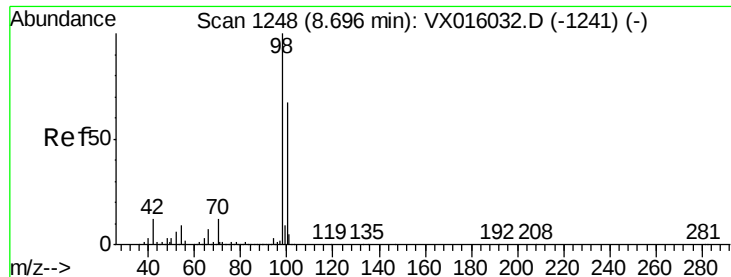
Tot Ion: 41 Resp: 112056
Ion Ratio Lower Upper
41 100
69 0.2 67.8 101.6#
39 50.1 44.6 67.0



#49
1,4-Dioxane
Concen: 0.319 ug/l
RT: 7.69 min Scan# 1083
Delta R.T. -0.02 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 4443.8 55.9 83.9#





#50

Toluene-d8

Concen: 51.509 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

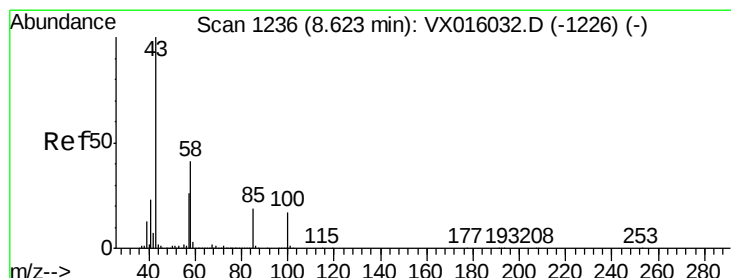
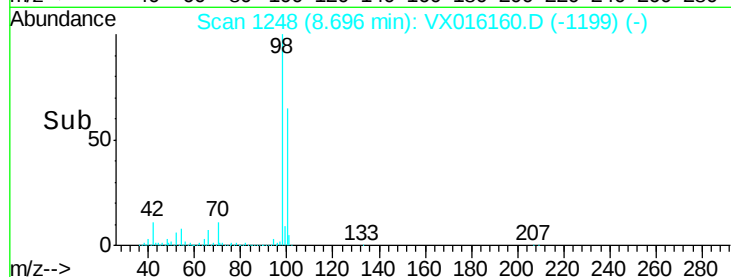
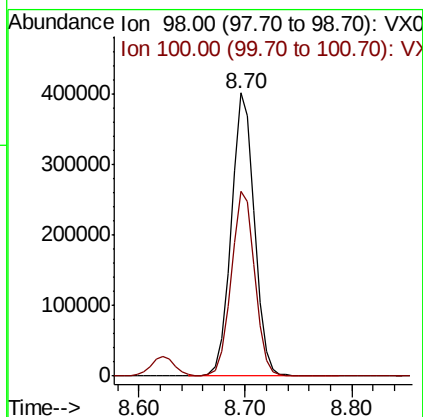
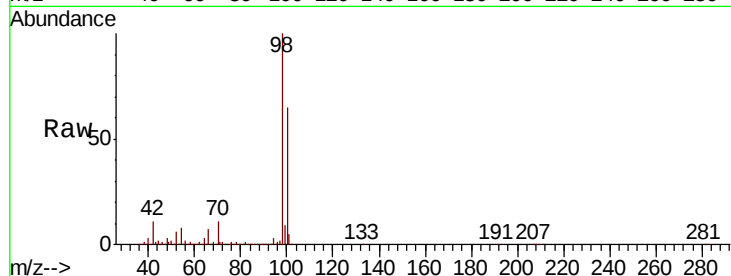
CHASSIE-WASH

Tot Ion: 98 Resp: 610120

Ion Ratio Lower Upper

98 100

100 66.3 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 60.735 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX016160.D

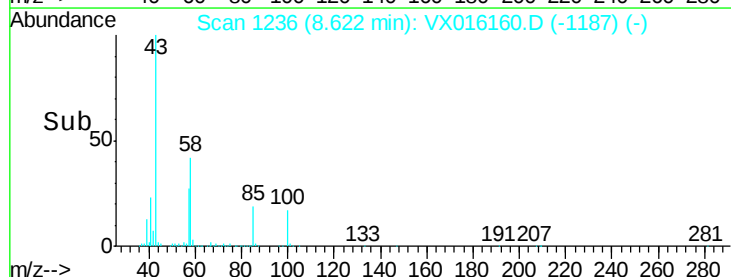
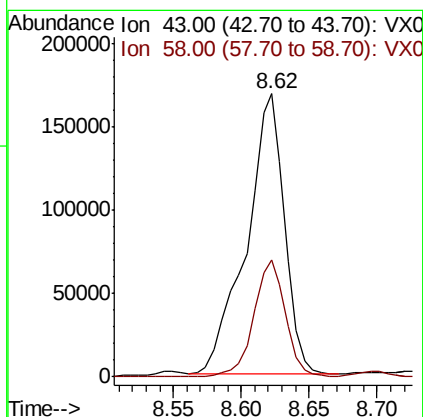
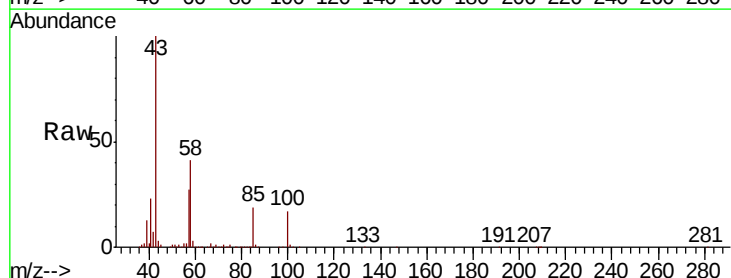
Acq: 11 May 2020 19:28

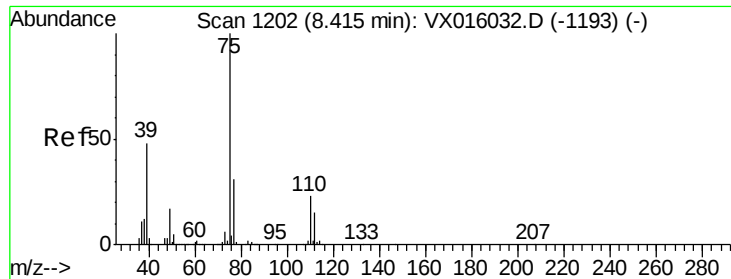
Tgt Ion: 43 Resp: 328284

Ion Ratio Lower Upper

43 100

58 35.1 33.0 49.4



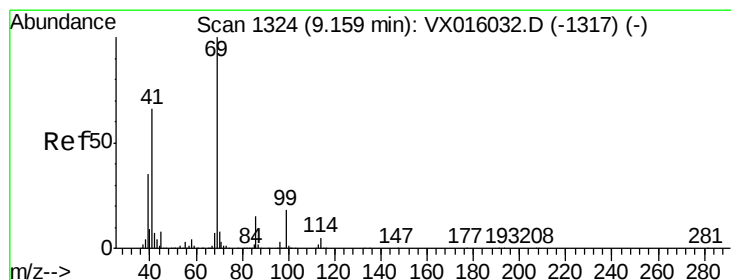
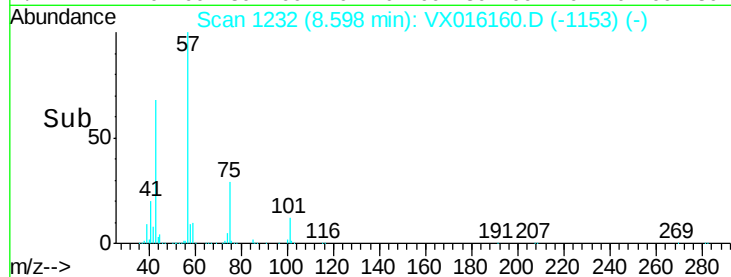
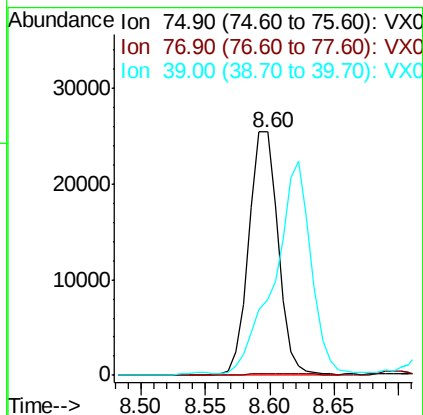
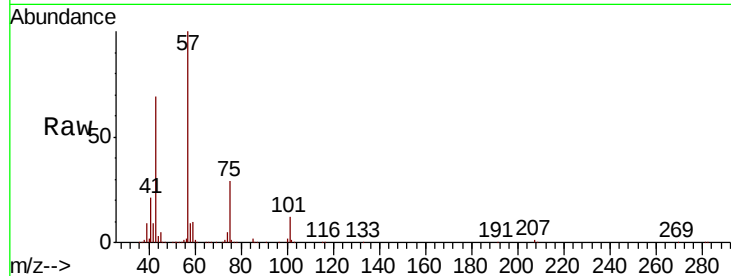


#54

cis-1,3-Dichloropropene
 Concen: 6.560 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX016160.D
 Acq: 11 May 2020 19:28

Instrument :
 MSVOA_X
 ClientSampleId :
 CHASSIE-WASH

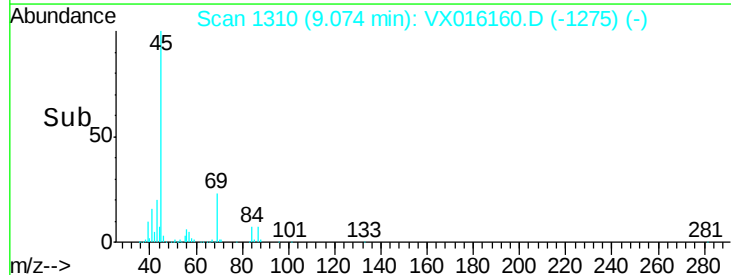
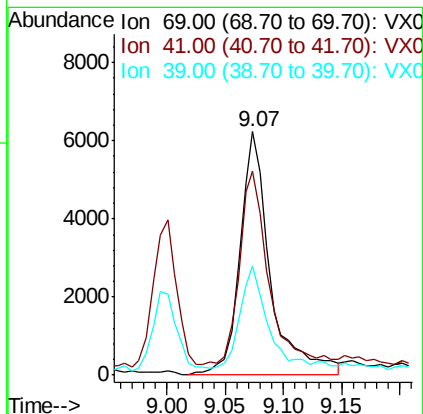
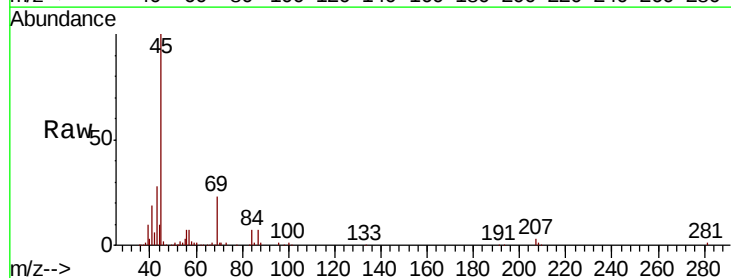
Tot Ion: 75 Resp: 39983
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.7 37.1#
 39 30.5 38.7 58.1#

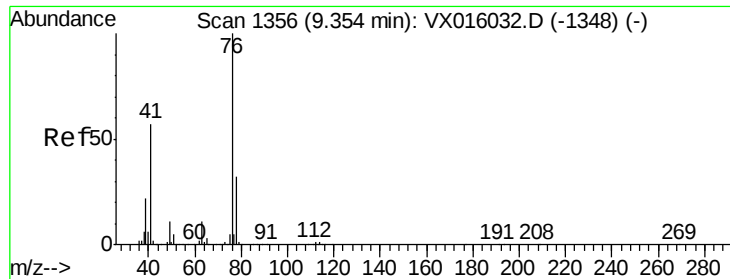


#56

Ethyl methacrylate
 Concen: 2.040 ug/l
 RT: 9.07 min Scan# 1310
 Delta R.T. -0.09 min
 Lab File: VX016160.D
 Acq: 11 May 2020 19:28

Tgt Ion: 69 Resp: 11410
 Ion Ratio Lower Upper
 69 100
 41 73.8 52.2 78.4
 39 38.4 28.2 42.4





#57

1,3-Dichloropropane

Concen: 0.927 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

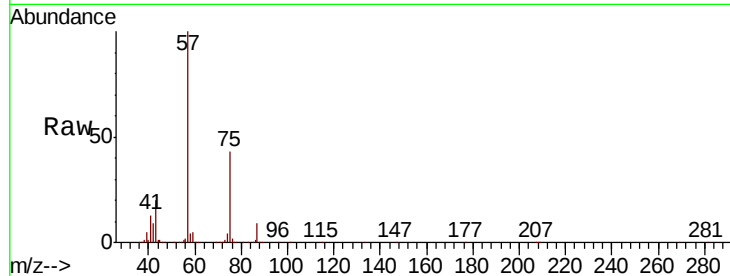
CHASSIE-WASH

Tot Ion: 76 Resp: 5545

Ion Ratio Lower Upper

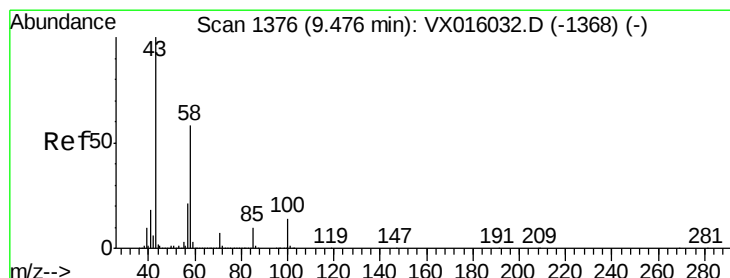
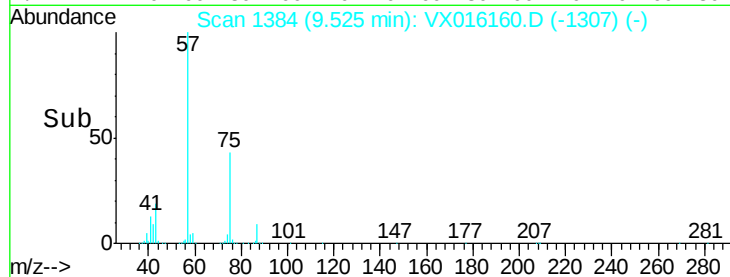
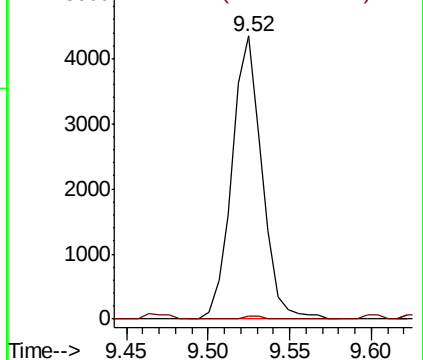
76 100

78 0.7 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 15.848 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016160.D

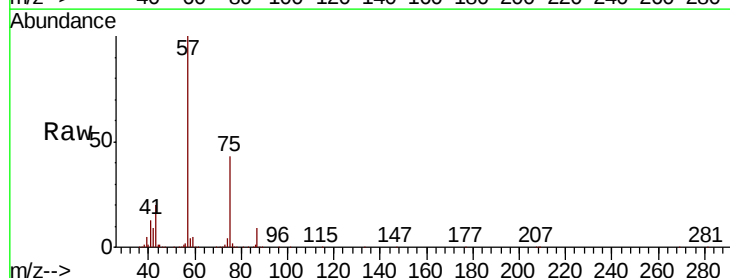
Acq: 11 May 2020 19:28

Tgt Ion: 43 Resp: 67270

Ion Ratio Lower Upper

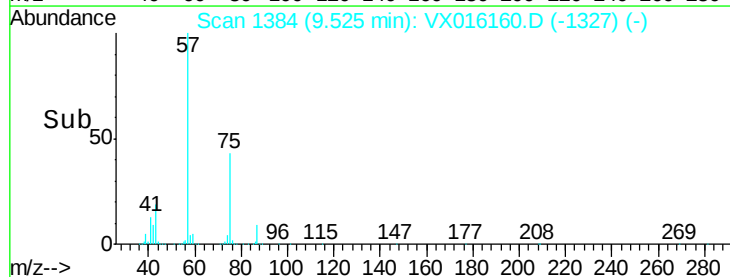
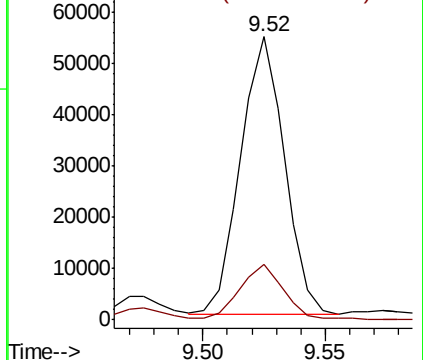
43 100

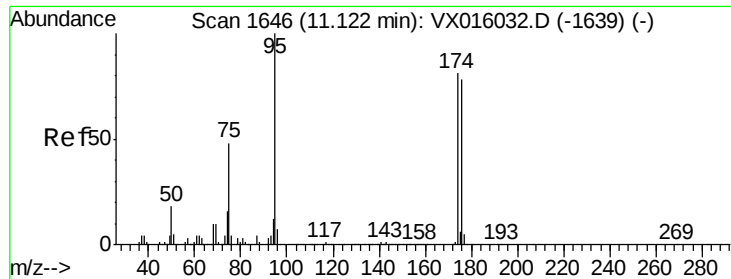
58 20.7 28.6 85.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

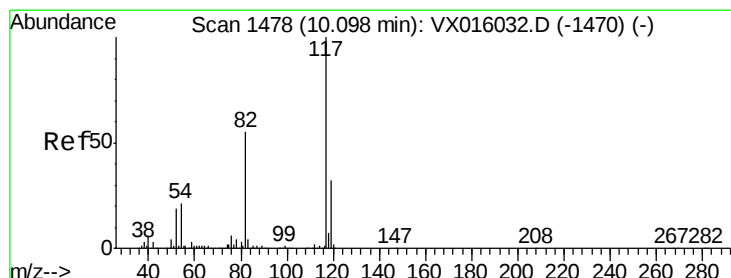
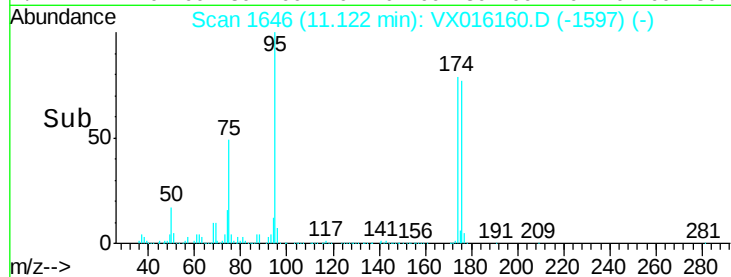
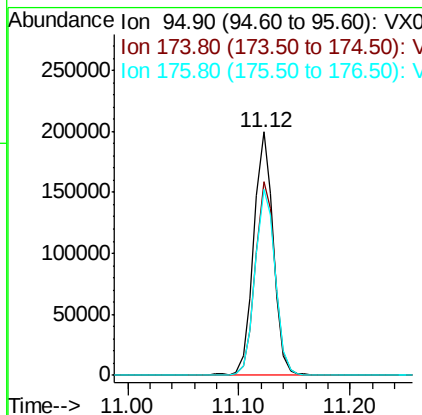
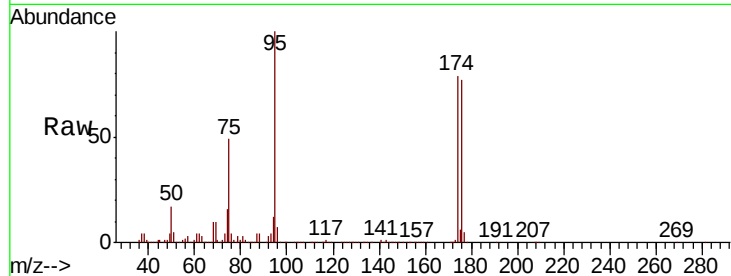




#62
4-Bromofluorobenzene
Concen: 54.436 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

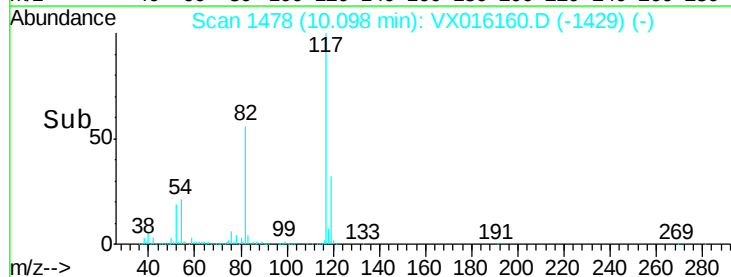
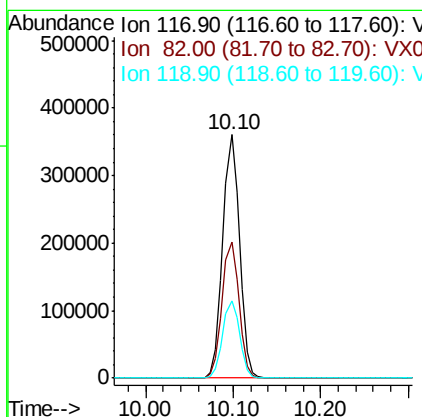
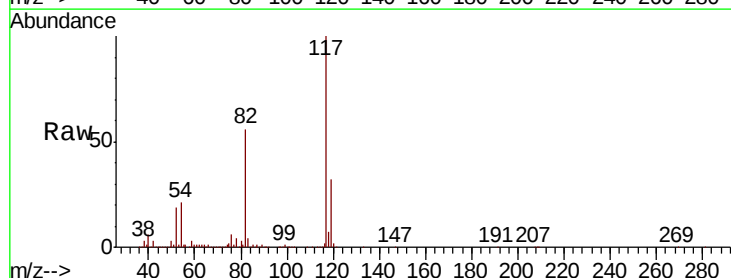
Instrument :
MSVOA_X
ClientSampleId :
CHASSIE-WASH

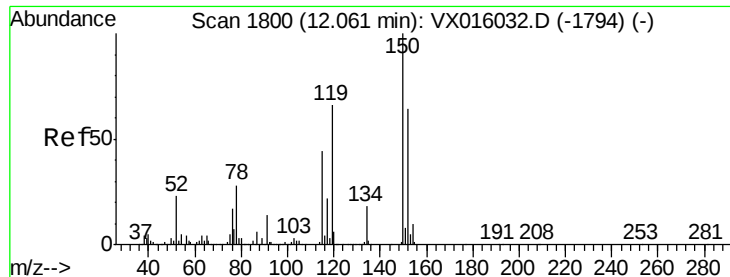
Tot Ion	95	Resp	245247
Ion Ratio	Lower	Upper	
95	100		
174	79.9	0.0	159.4
176	78.4	0.0	157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016160.D
Acq: 11 May 2020 19:28

Tgt Ion	117	Resp	479090
Ion Ratio	Lower	Upper	
117	100		
82	55.7	44.4	66.6
119	31.6	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

CHASSIE-WASH

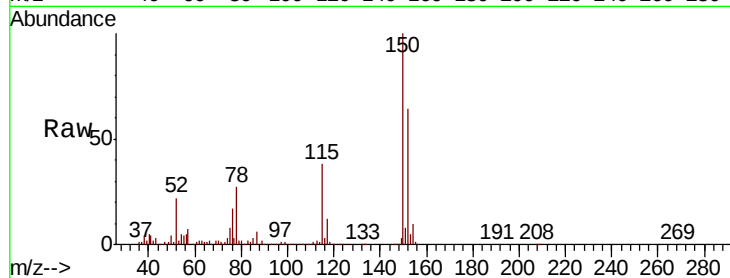
Tot Ion:152 Resp: 249358

Ion Ratio Lower Upper

152 100

115 58.0 41.3 124.1

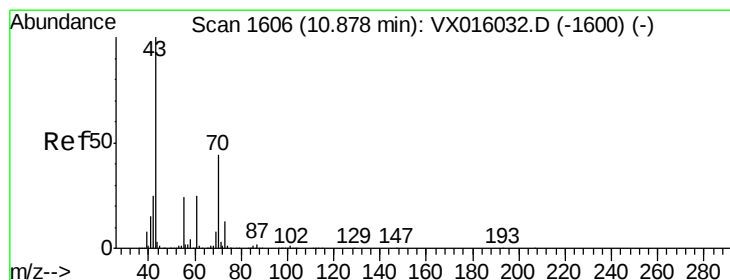
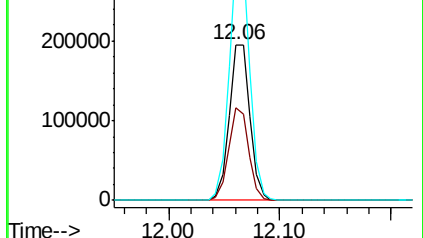
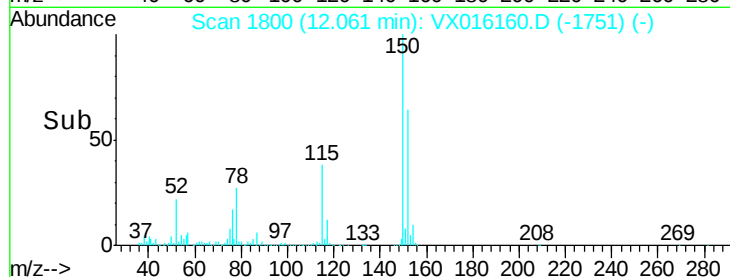
150 154.8 0.0 352.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.496 ug/l

RT: 10.91 min Scan# 1612

Delta R.T. 0.04 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Tgt Ion: 43 Resp: 4198

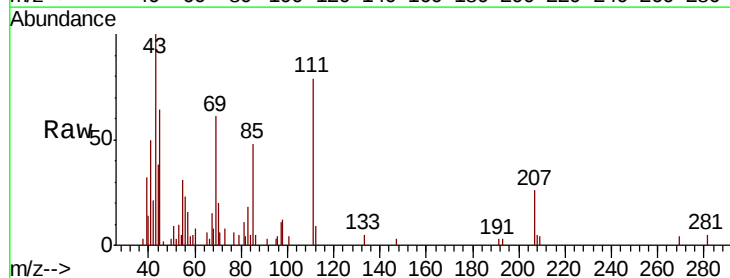
Ion Ratio Lower Upper

43 100

70 35.9 36.5 54.7#

55 23.0 19.7 29.5

61 0.0 20.9 31.3#

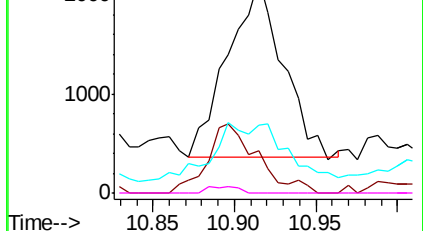
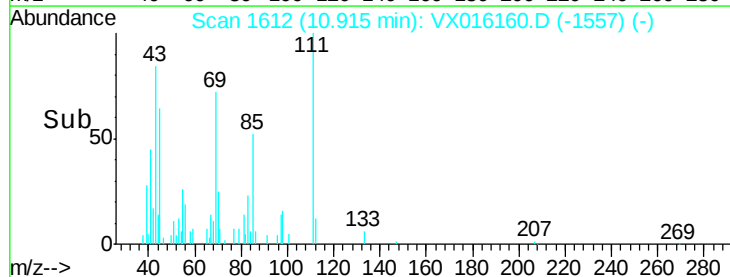


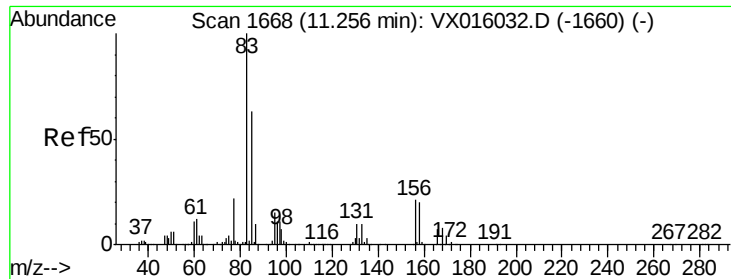
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.147 ug/l

RT: 11.24 min Scan# 1666

Delta R.T. -0.01 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampled :

CHASSIE-WASH

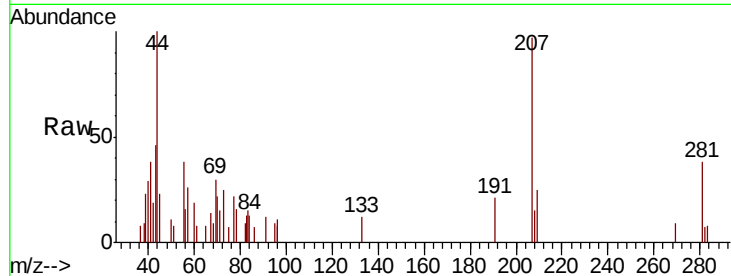
Tot Ion: 83 Resp: 332

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

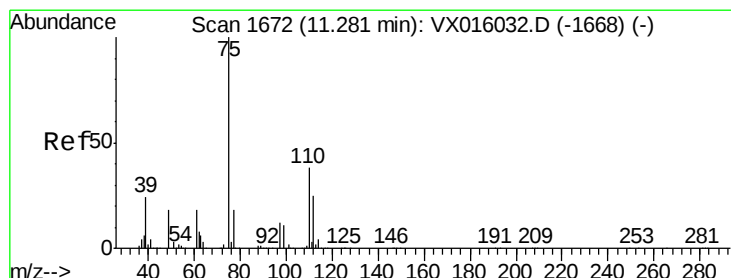
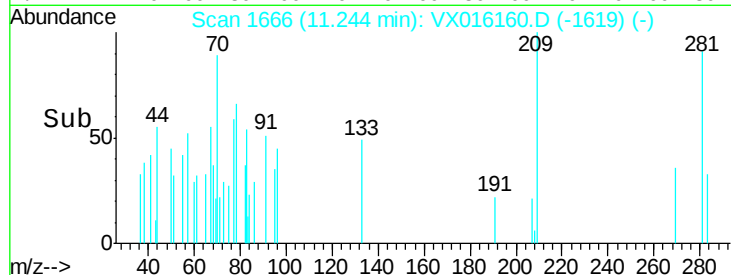
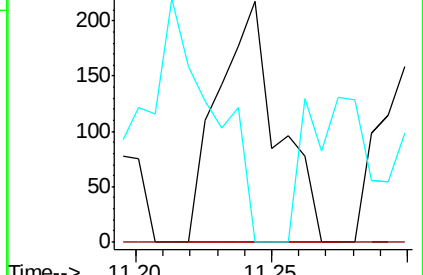
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.380 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016160.D

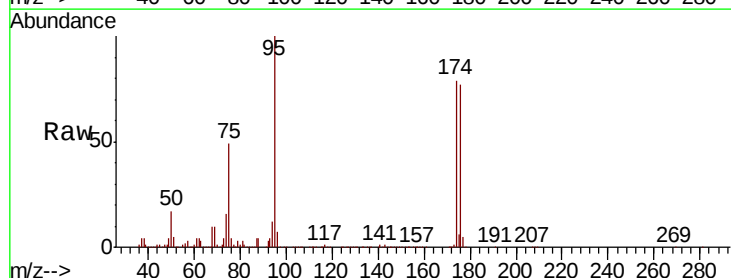
Acq: 11 May 2020 19:28

Tgt Ion: 75 Resp: 120977

Ion Ratio Lower Upper

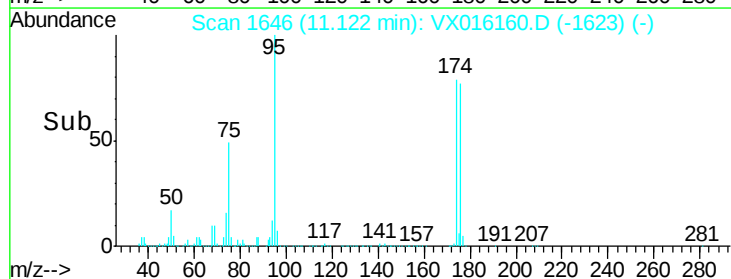
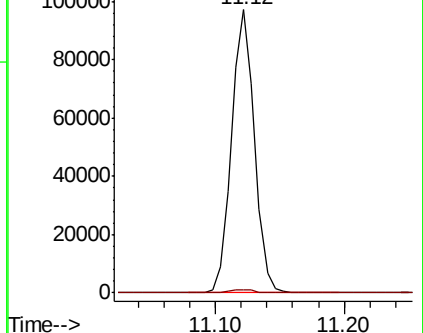
75 100

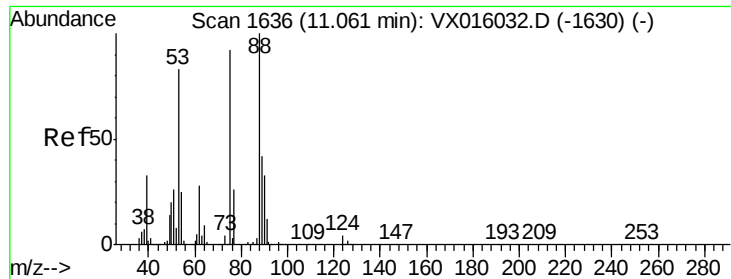
77 1.5 21.2 63.6#



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: 50.949 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016160.D

Acq: 11 May 2020 19:28

Instrument :

MSVOA_X

ClientSampleId :

CHASSIE-WASH

Tot Ion: 75 Resp: 120977

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#

