

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071720\
 Data File : VX0717417.D
 Acq On : 17 Jul 2020 14:17
 Operator : JC/SP
 Sample : PB130262ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

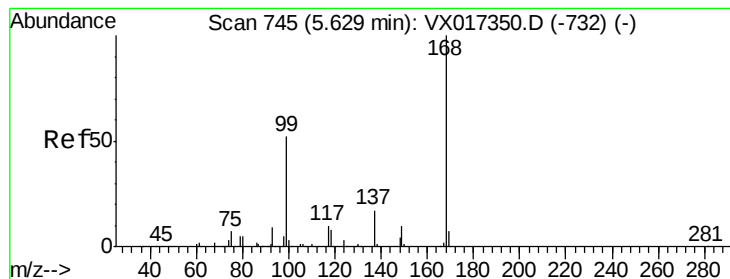
Quant Time: Jul 18 06:57:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	246534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	446047	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	506769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	252705	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	179841	58.12	ug/l	0.00
Spiked Amount			Recovery	=	116.24%	
35) Dibromofluoromethane	5.47	113	154675	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
50) Toluene-d8	8.70	98	584419	53.92	ug/l	0.00
Spiked Amount			Recovery	=	107.84%	
62) 4-Bromofluorobenzene	11.12	95	239377	55.60	ug/l	0.00
Spiked Amount			Recovery	=	111.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	546	0.232	ug/l #	41
5) Bromomethane	1.64	94	461	0.305	ug/l #	57
8) Diethyl Ether	2.17	74	1050	0.757	ug/l	76
10) Methyl Iodide	2.50	142	192	2.436	ug/l #	64
11) Tert butyl alcohol	3.01	59	1507	2.891	ug/l #	88
13) Acrolein	2.25	56	381	1.333	ug/l #	65
16) Acetone	2.42	43	32492	29.434	ug/l	98
17) Carbon Disulfide	2.55	76	1394	0.213	ug/l #	77
18) Methyl Acetate	2.75	43	3496	1.282	ug/l #	87
20) Methylene Chloride	2.84	84	36882	13.694	ug/l	96
25) 2-Butanone	4.65	43	4944	2.820	ug/l	95
29) Tetrahydrofuran	5.10	42	1587	1.398	ug/l #	67
36) 1,1-Dichloropropene	5.63	75	19063	4.646	ug/l #	50
38) Carbon Tetrachloride	5.63	117	25833	5.378	ug/l #	17
43) Isopropyl Acetate	6.41	43	86474	12.754	ug/l	99
48) Methyl methacrylate	7.65	41	5322	1.636	ug/l #	14
49) 1,4-Dioxane	7.68	88	41	0.616	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	85102	20.586	ug/l #	48
54) cis-1,3-Dichloropropene	8.60	75	35984	6.884	ug/l #	63
56) Ethyl methacrylate	9.29	69	2197	0.490	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	7056	1.344	ug/l #	50
59) 2-Hexanone	9.42	43	86686	27.782	ug/l #	23
74) N-amyl acetate	10.80	43	3994	0.630	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	119925	25.682	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	7010	0.521	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	119925	65.150	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

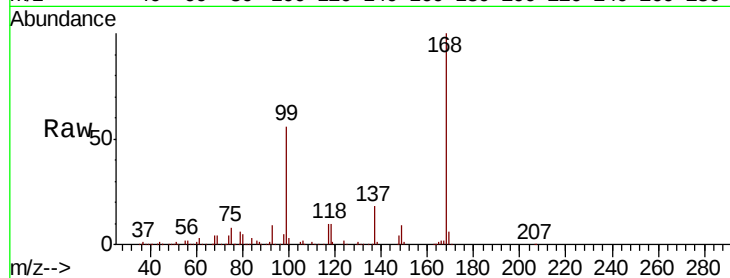
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 246534

Ion Ratio Lower Upper

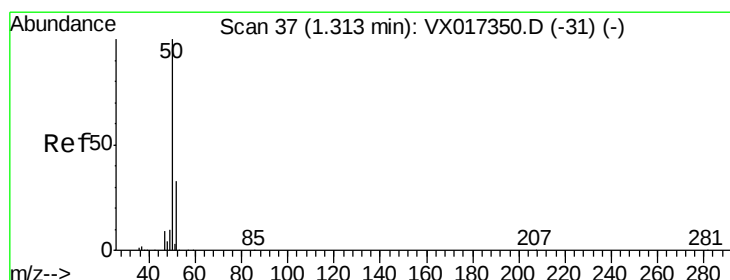
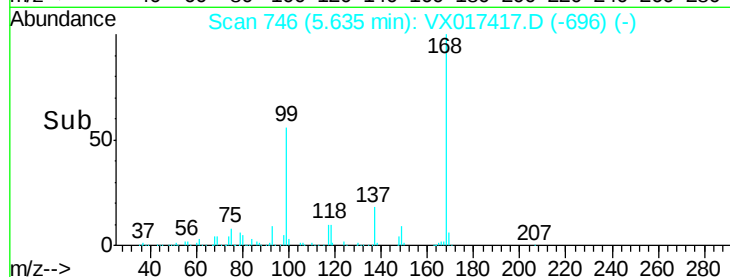
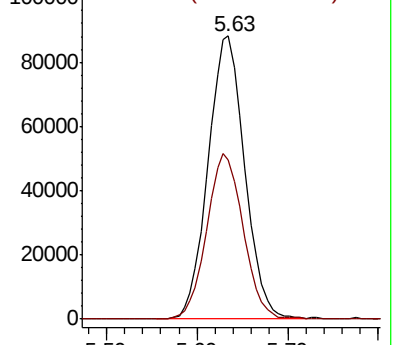
168 100

99 56.1 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.232 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017417.D

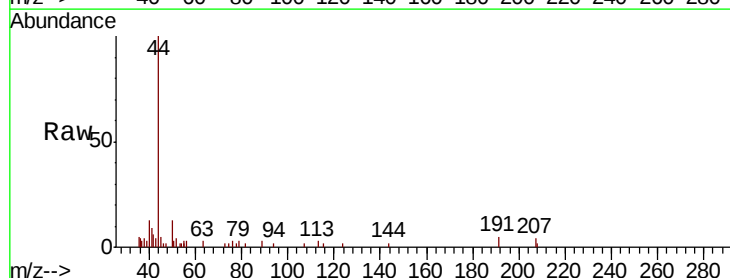
Acq: 17 Jul 2020 14:17

Tgt Ion: 50 Resp: 546

Ion Ratio Lower Upper

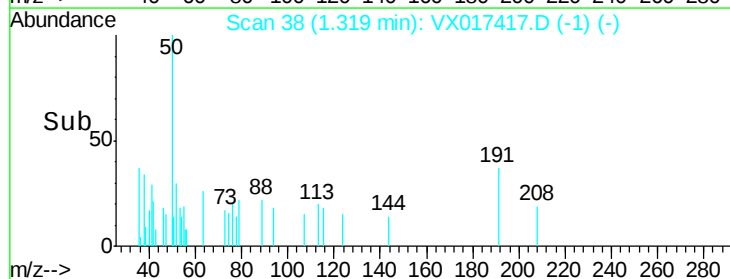
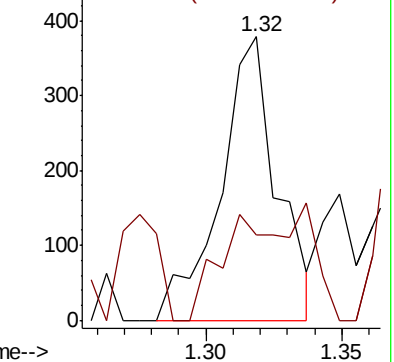
50 100

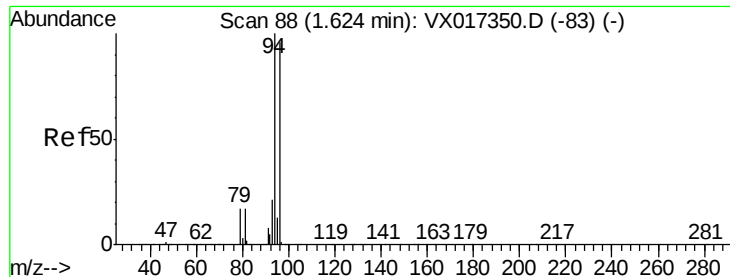
52 0.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.305 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

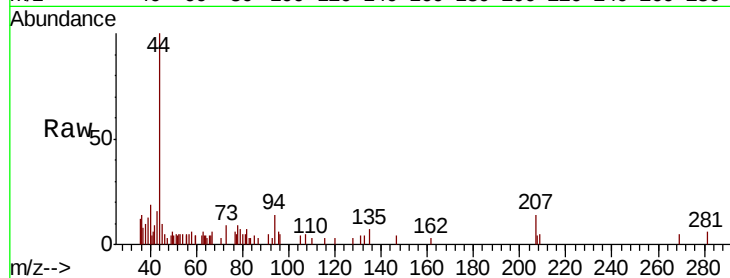
ClientSampled :

Tot Ion: 94 Resp: 461

Ion Ratio Lower Upper

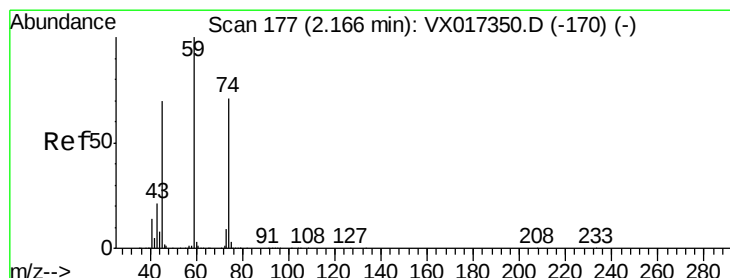
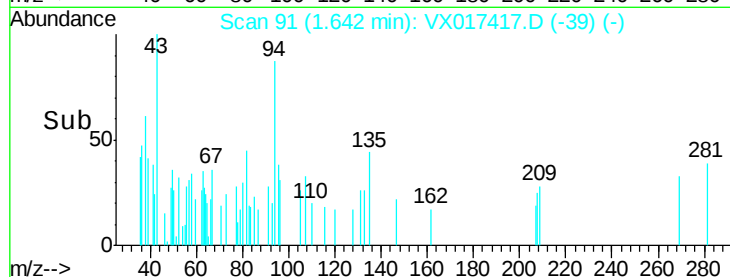
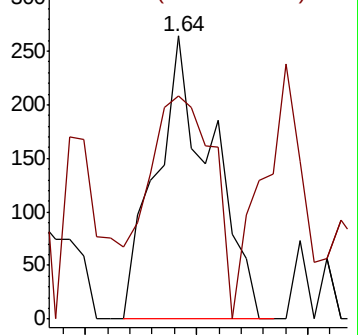
94 100

96 53.4 76.6 115.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.757 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017417.D

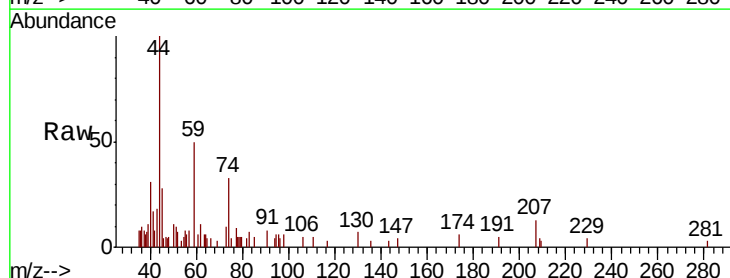
Acq: 17 Jul 2020 14:17

Tgt Ion: 74 Resp: 1050

Ion Ratio Lower Upper

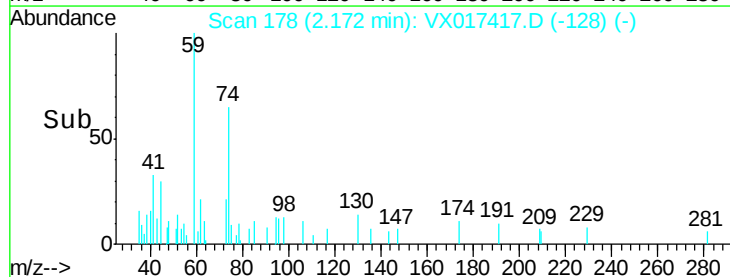
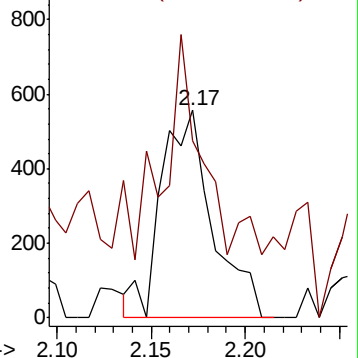
74 100

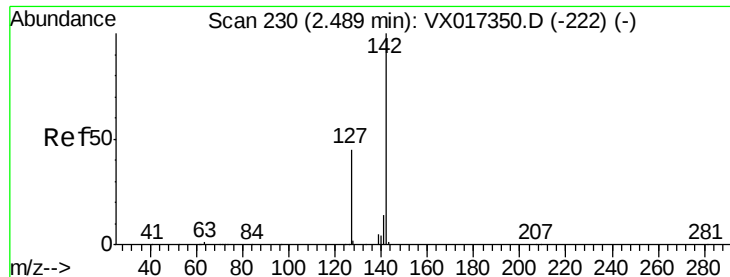
45 70.9 47.2 141.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

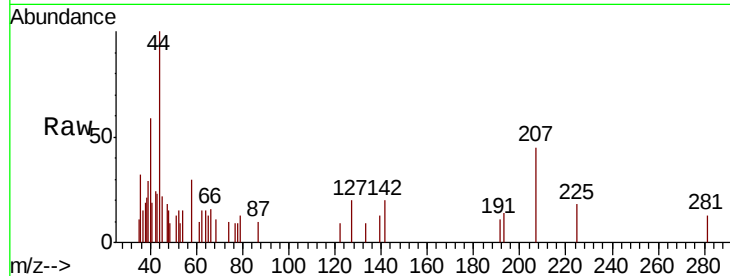




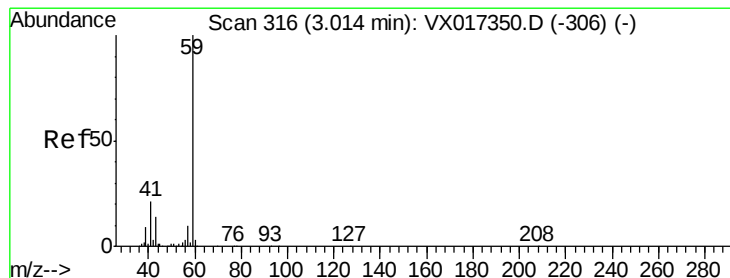
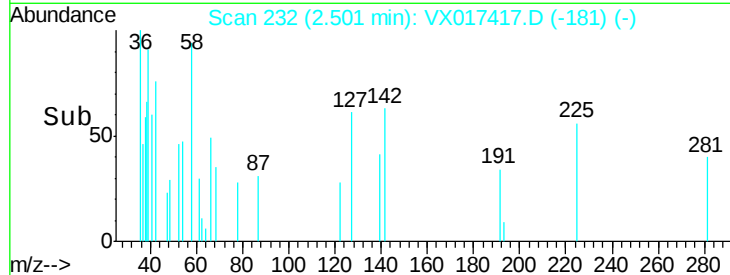
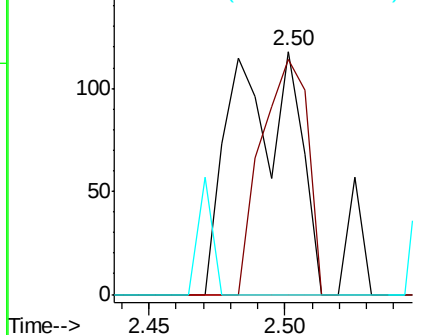
#10
Methyl Iodide
Concen: 2.436 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 192
Ion Ratio Lower Upper
142 100
127 70.3 36.8 55.2#
141 0.0 11.4 17.0#

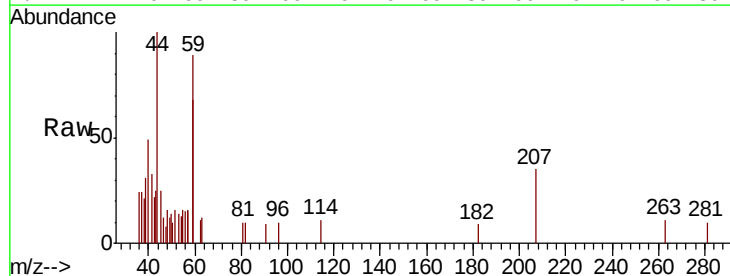


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

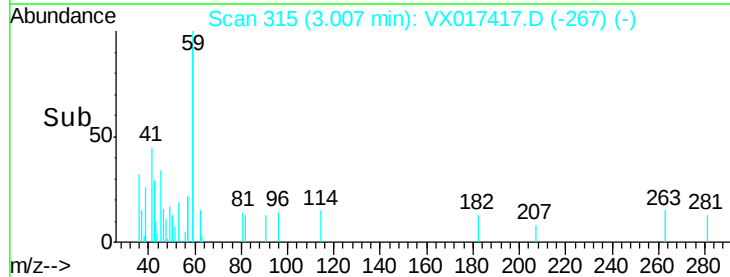
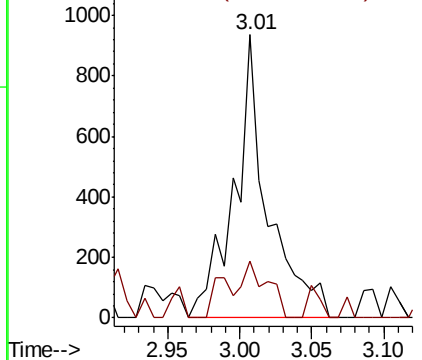


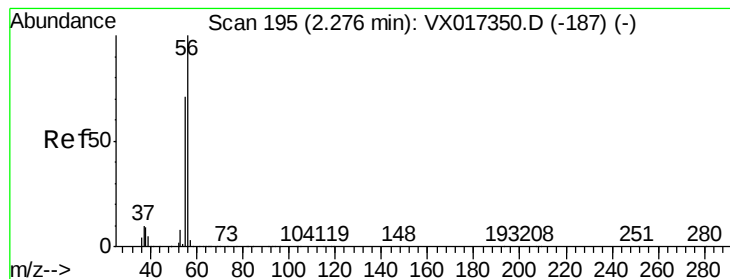
#11
Tert butyl alcohol
Concen: 2.891 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

Tgt Ion: 59 Resp: 1507
Ion Ratio Lower Upper
59 100
57 15.1 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.333 ug/l

RT: 2.25 min Scan# 190

Delta R.T. -0.03 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

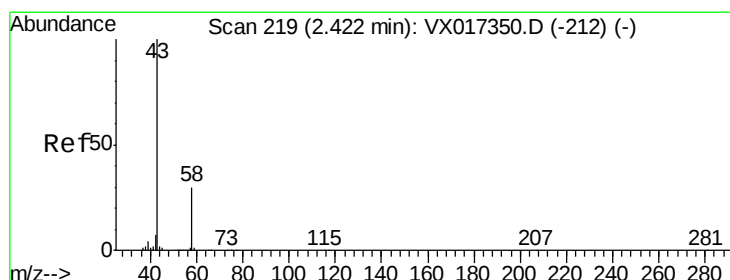
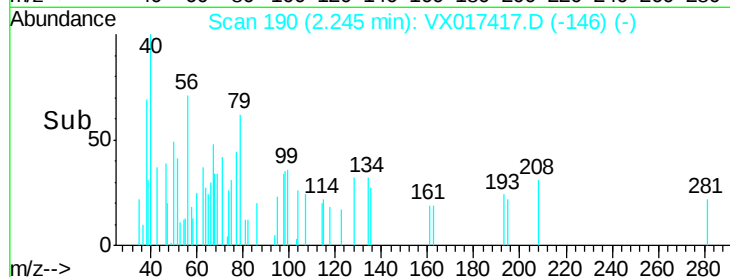
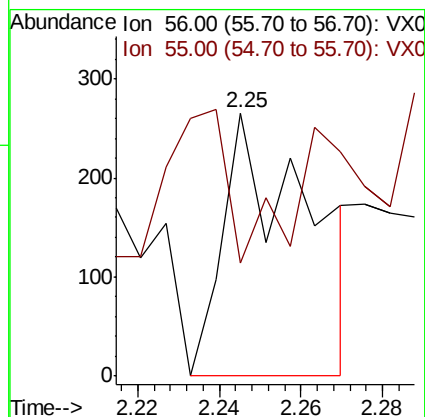
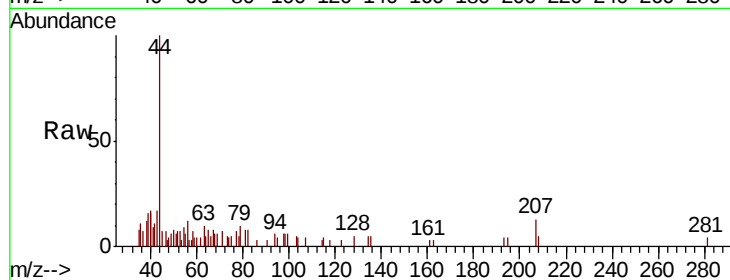
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 381

Ion Ratio Lower Upper

56 100

55 42.8 57.1 85.7#



#16

Acetone

Concen: 29.434 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017417.D

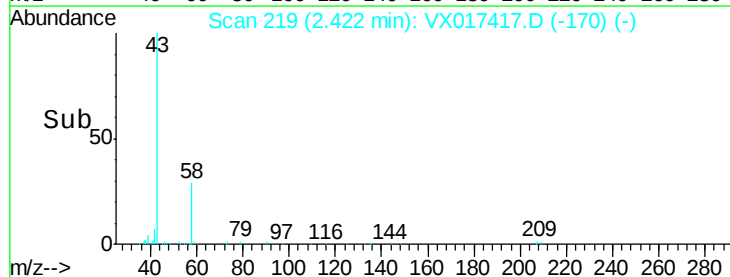
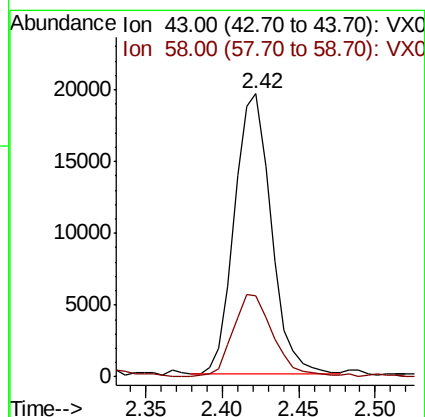
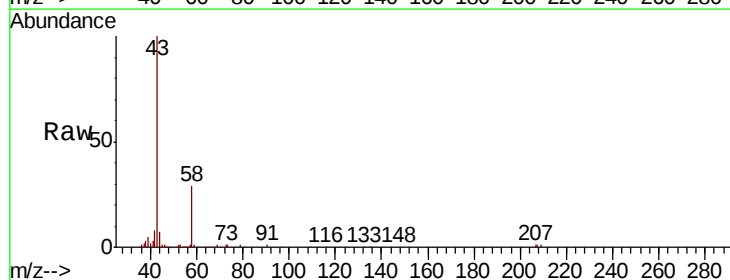
Acq: 17 Jul 2020 14:17

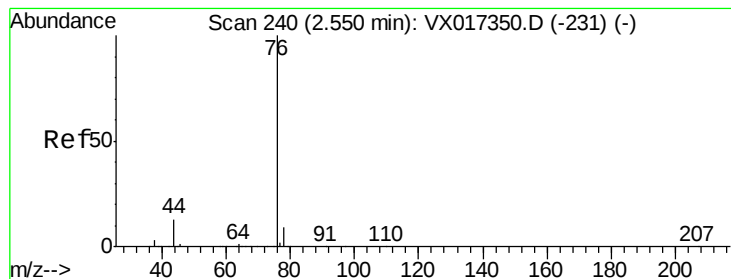
Tgt Ion: 43 Resp: 32492

Ion Ratio Lower Upper

43 100

58 29.0 24.2 36.2





#17

Carbon Disulfide

Concen: 0.213 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

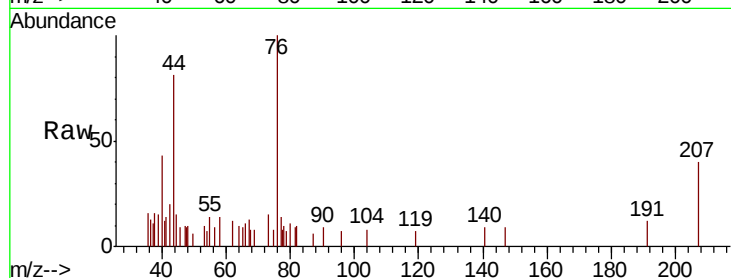
ClientSampleId :

Tot Ion: 76 Resp: 1394

Ion Ratio Lower Upper

76 100

78 17.3 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.55

800

600

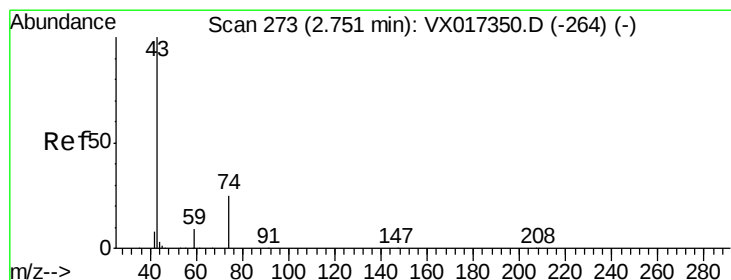
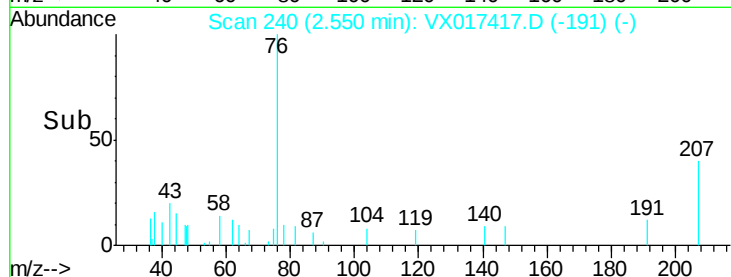
400

200

0

2.50 2.55 2.60

Time-->



#18

Methyl Acetate

Concen: 1.282 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017417.D

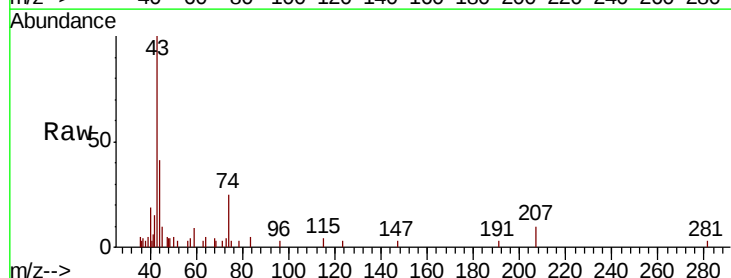
Acq: 17 Jul 2020 14:17

Tgt Ion: 43 Resp: 3496

Ion Ratio Lower Upper

43 100

74 30.8 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

2000

1500

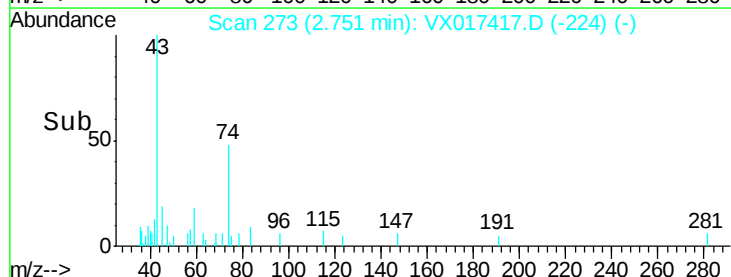
1000

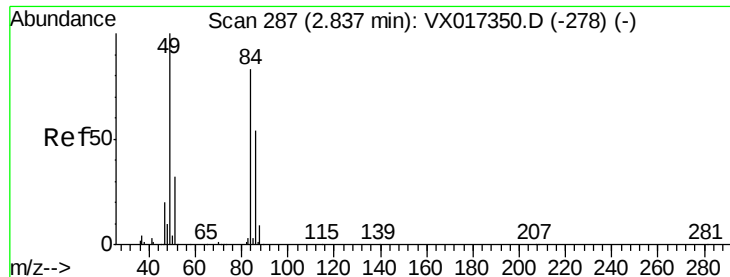
500

0

2.70 2.75 2.80

Time-->

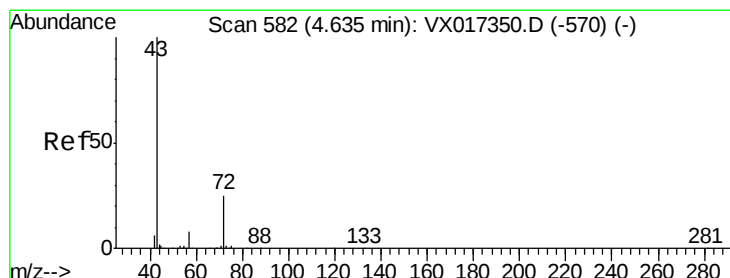
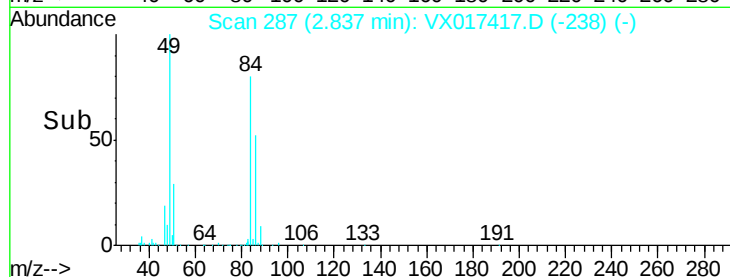
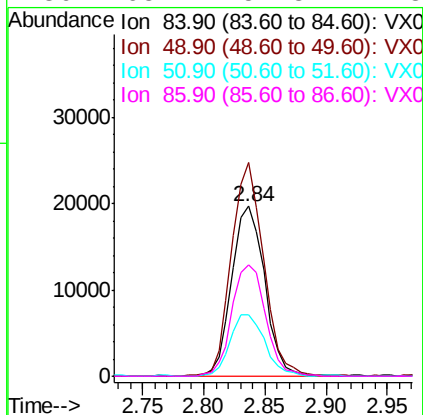
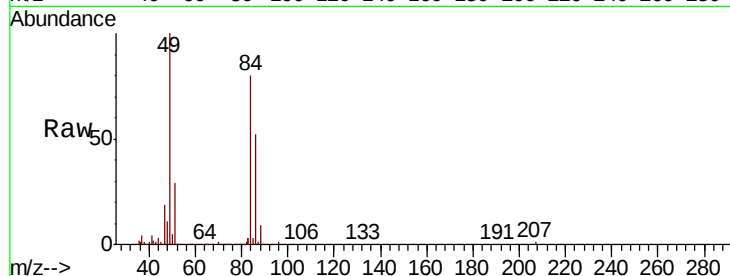




#20
Methvlene Chloride
Concen: 13.694 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

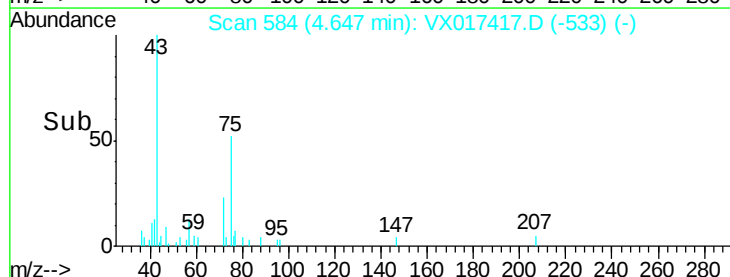
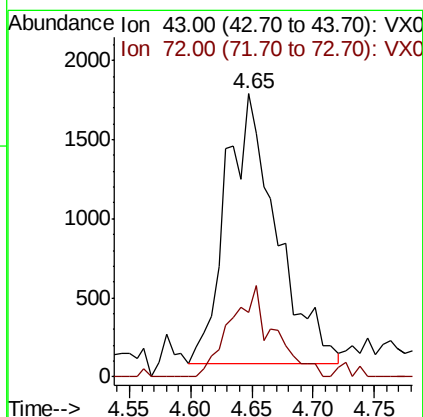
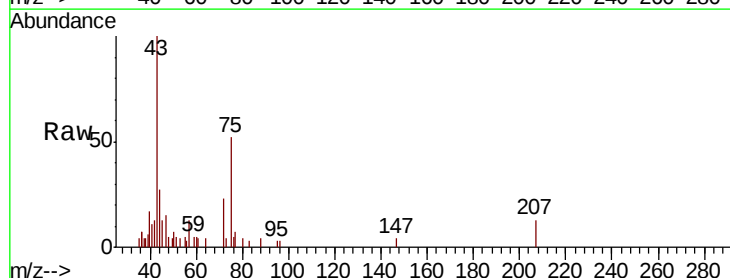
Instrument :
MSVOA_X
ClientSampleId :

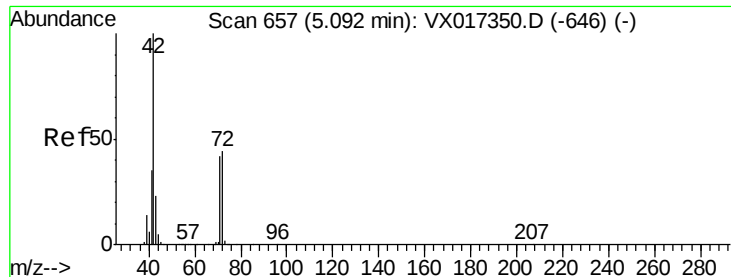
Tot Ion: 84 Resp: 36882
Ion Ratio Lower Upper
84 100
49 125.2 95.8 143.8
51 35.7 31.0 46.4
86 65.4 51.8 77.8



#25
2-Butanone
Concen: 2.820 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

Tgt Ion: 43 Resp: 4944
Ion Ratio Lower Upper
43 100
72 27.8 20.4 30.6

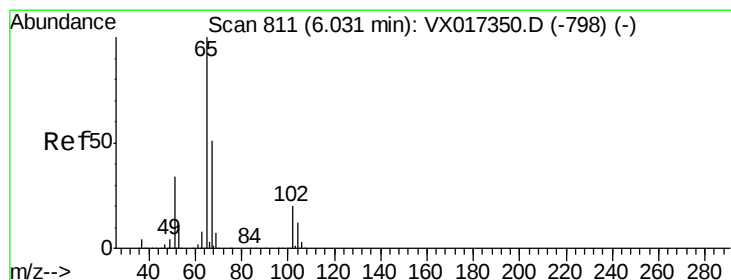
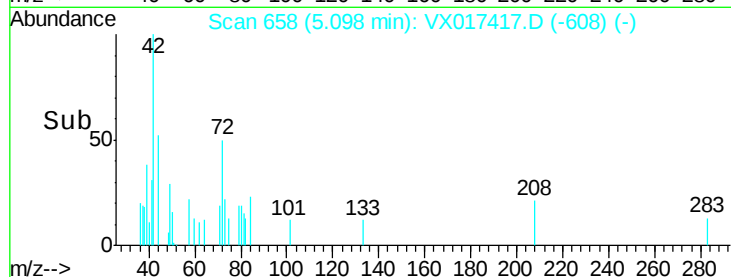
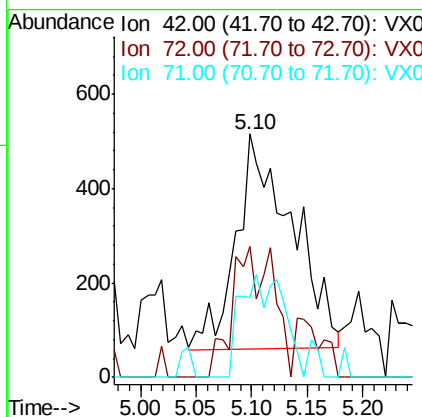
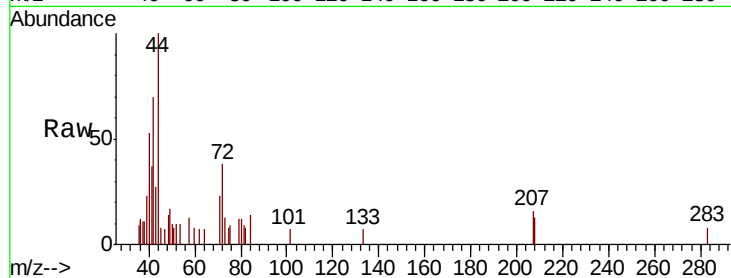




#29
Tetrahydrofuran
Concen: 1.398 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

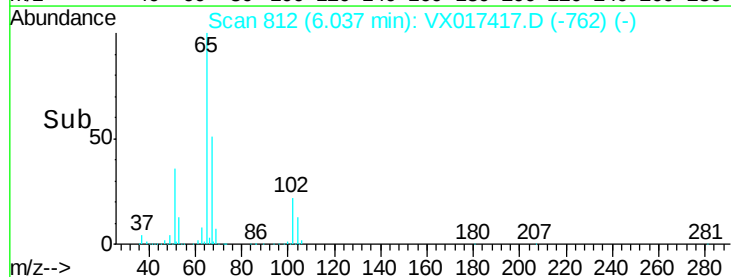
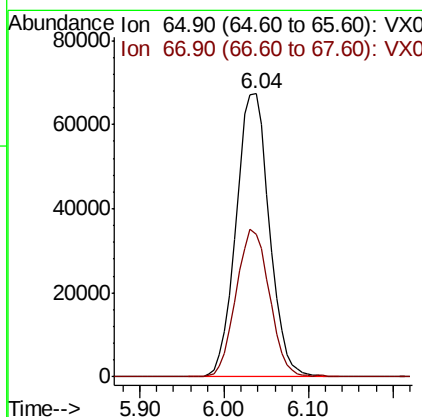
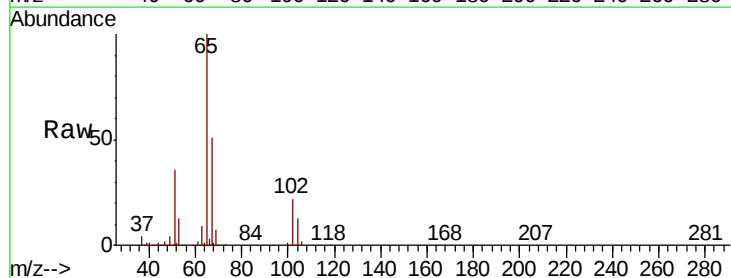
Instrument :
MSVOA_X
ClientSampleId :

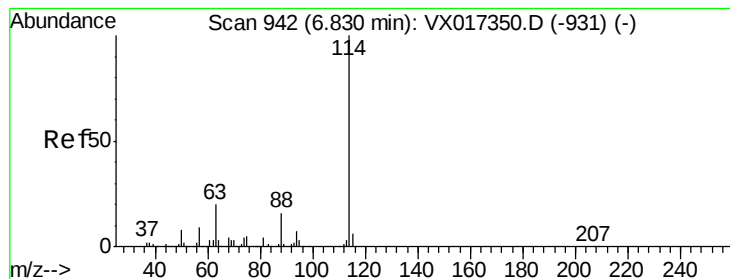
Tot Ion: 42 Resp: 1587
Ion Ratio Lower Upper
42 100
72 26.7 37.2 55.8#
71 20.3 34.4 51.6#



#33
1,2-Dichloroethane-d4
Concen: 58.122 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

Tgt Ion: 65 Resp: 179841
Ion Ratio Lower Upper
65 100
67 52.5 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

ClientSampleId :

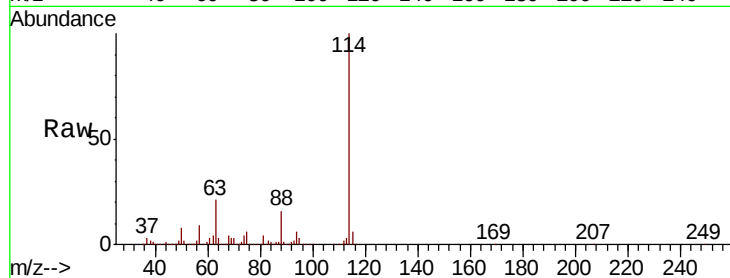
Tot Ion:114 Resp: 446047

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.0

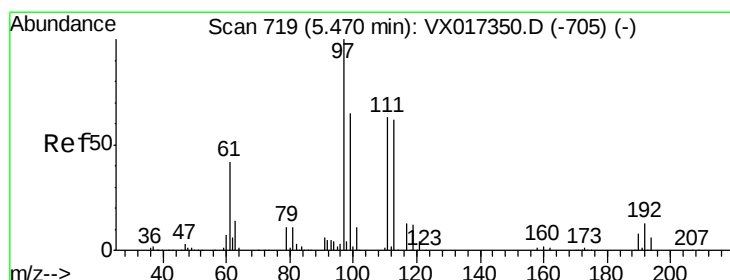
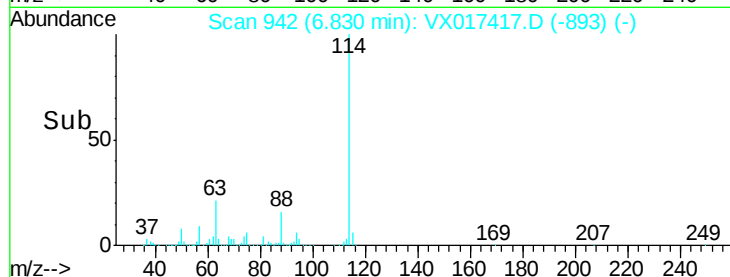
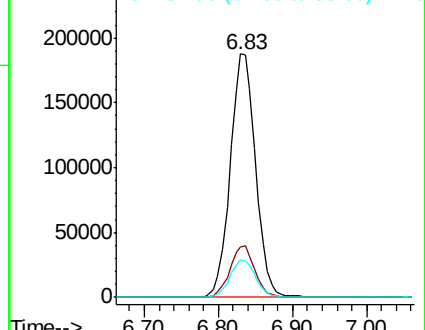
88 15.5 0.0 32.8



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: 51.479 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

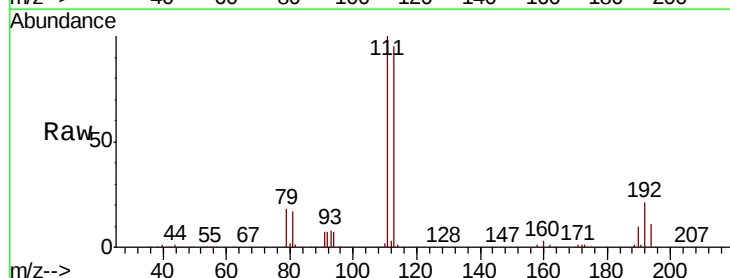
Tgt Ion:113 Resp: 154675

Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

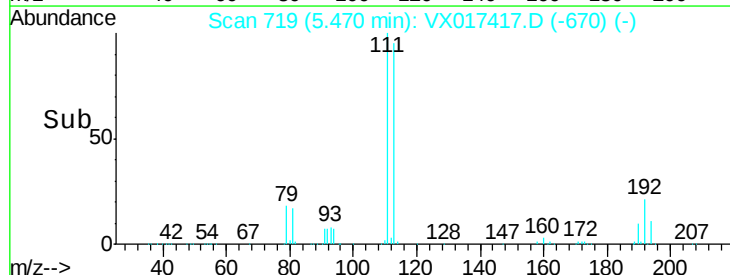
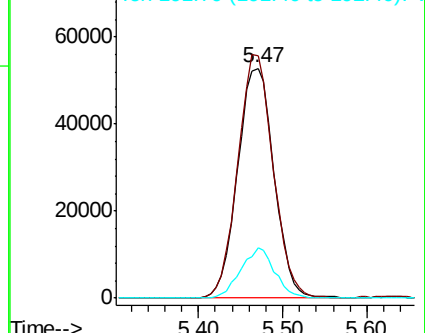
192 20.3 17.2 25.8

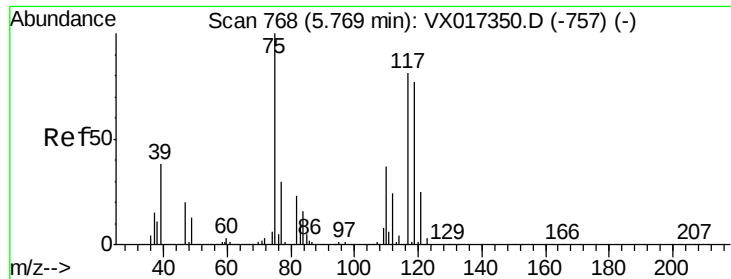


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.646 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

ClientSampleId :

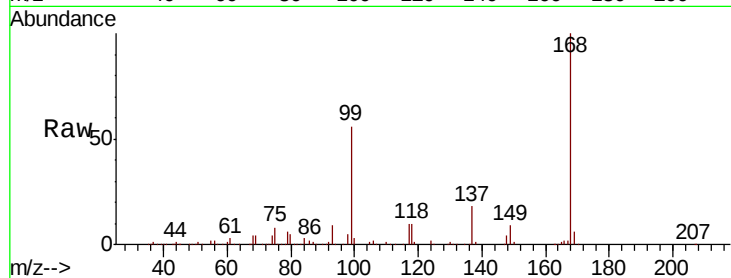
Tot Ion: 75 Resp: 19063

Ion Ratio Lower Upper

75 100

110 10.8 18.6 55.8#

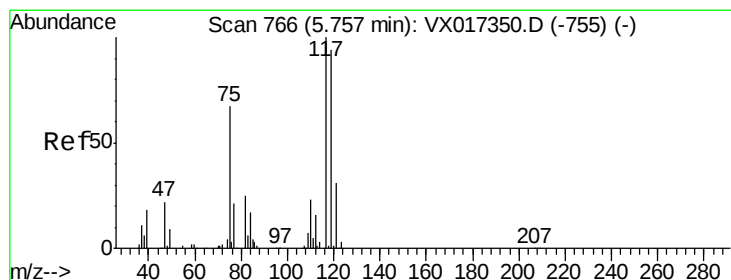
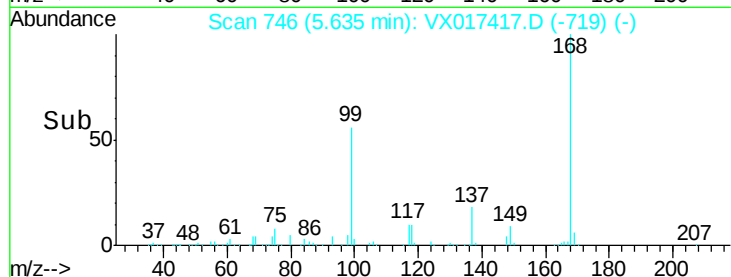
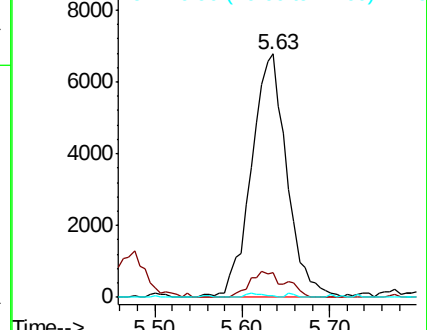
77 0.0 24.9 37.3#



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: 5.378 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

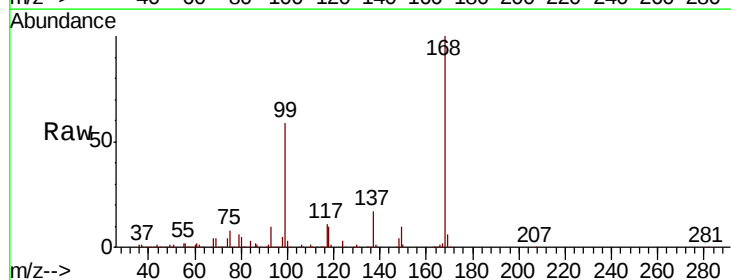
Tgt Ion: 117 Resp: 25833

Ion Ratio Lower Upper

117 100

119 5.6 74.7 112.1#

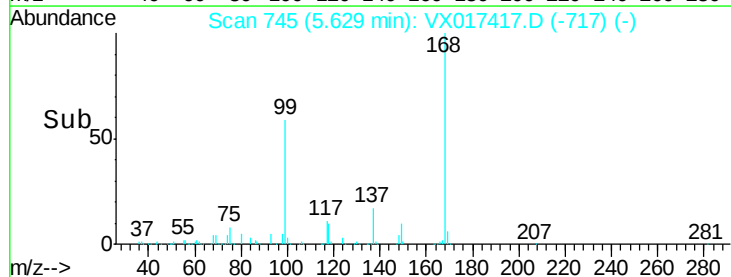
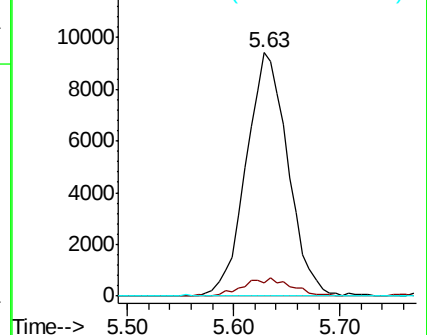
121 0.0 24.5 36.7#

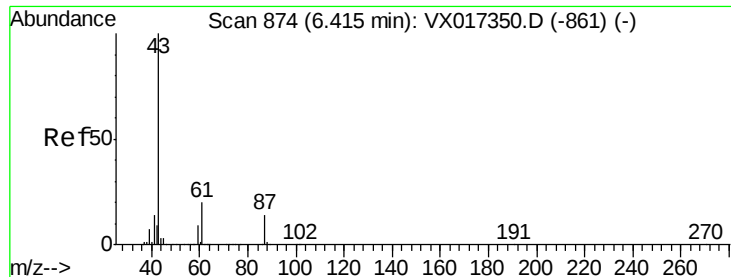


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



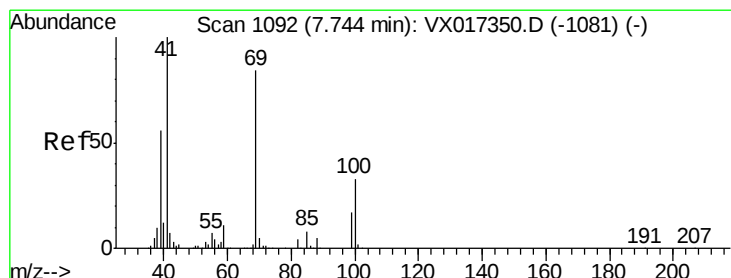
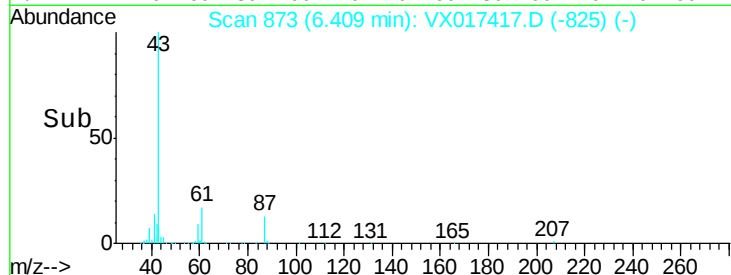
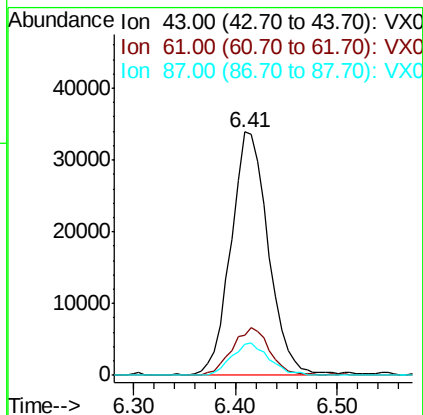
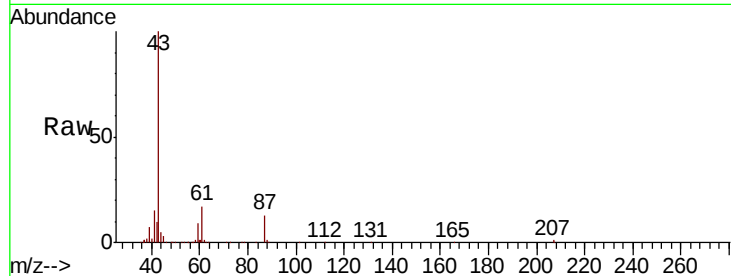


#43

Isopropyl Acetate
 Concen: 12.754 ug/l
 RT: 6.41 min Scan# 873
 Delta R.T. -0.01 min
 Lab File: VX017417.D
 Acq: 17 Jul 2020 14:17

Instrument :
 MSVOA_X
 ClientSampleId :

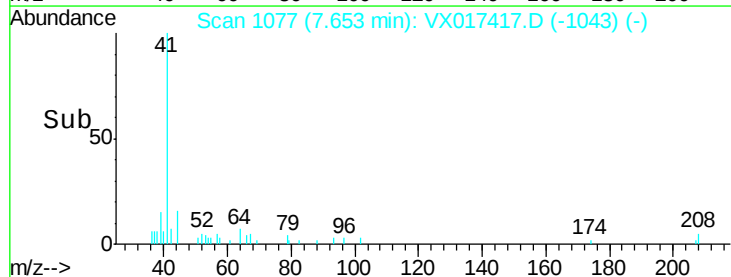
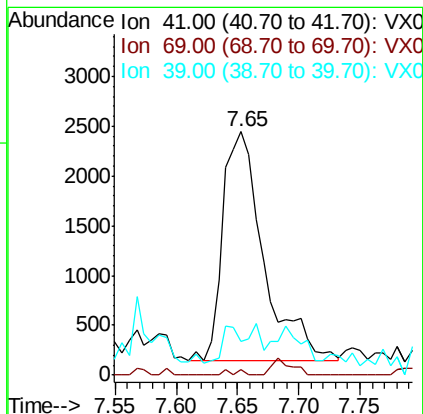
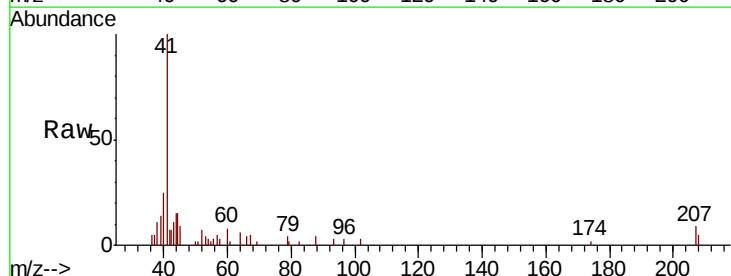
Tot Ion	43	Resp	86474
Ion Ratio	100	Lower	Upper
61	19.7	16.4	24.6
87	13.5	11.2	16.8

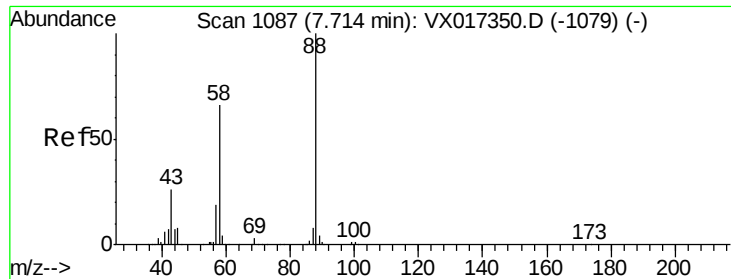


#48

Methyl methacrylate
 Concen: 1.636 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.09 min
 Lab File: VX017417.D
 Acq: 17 Jul 2020 14:17

Tgt Ion	41	Resp	5322
Ion Ratio	100	Lower	Upper
69	0.8	67.8	101.6#
39	0.0	45.1	67.7#

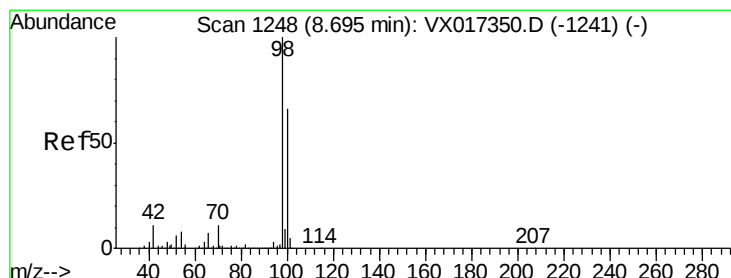
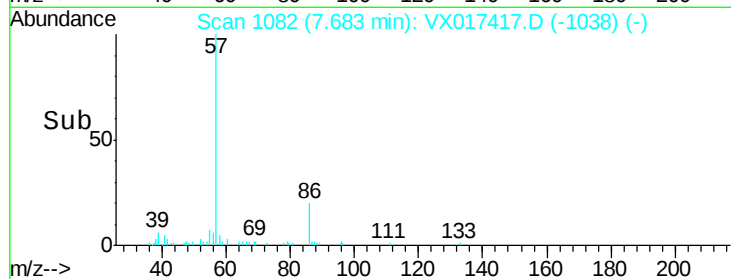
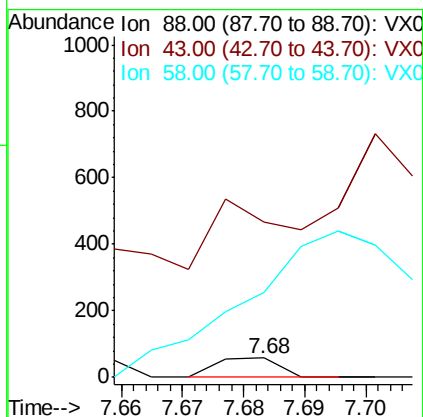
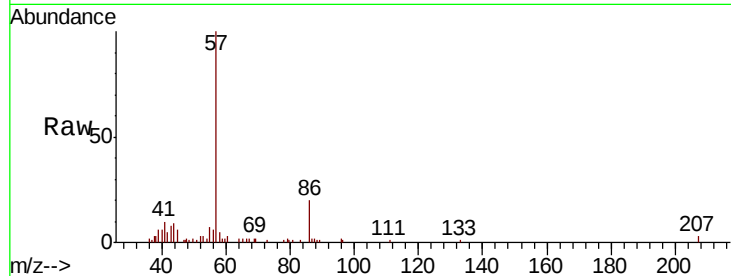




#49
 1,4-Dioxane
 Concen: 0.616 ug/l
 RT: 7.68 min Scan# 1082
 Delta R.T. -0.03 min
 Lab File: VX017417.D
 Acq: 17 Jul 2020 14:17

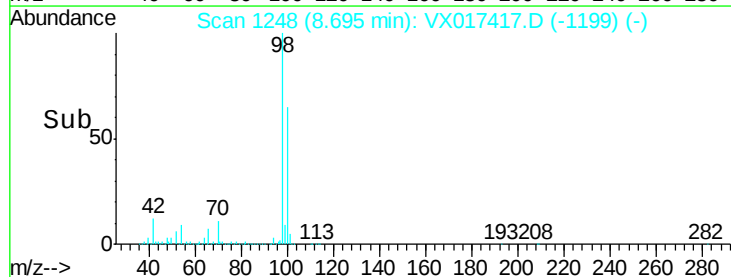
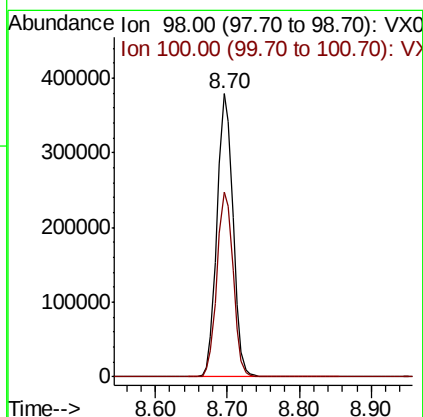
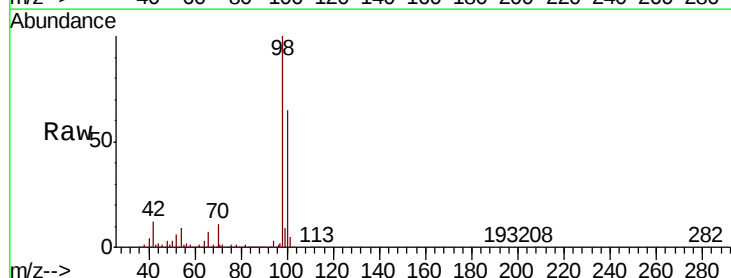
Instrument :
 MSVOA_X
 ClientSampled :

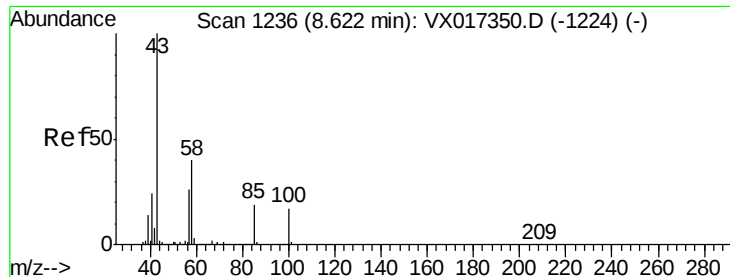
Tot Ion: 88 Resp: 41
 Ion Ratio Lower Upper
 88 100
 43 0.0 25.6 38.4#
 58 2436.6 53.9 80.9#



#50
 Toluene-d8
 Concen: 53.922 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VX017417.D
 Acq: 17 Jul 2020 14:17

Tgt Ion: 98 Resp: 584419
 Ion Ratio Lower Upper
 98 100
 100 66.3 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 20.586 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

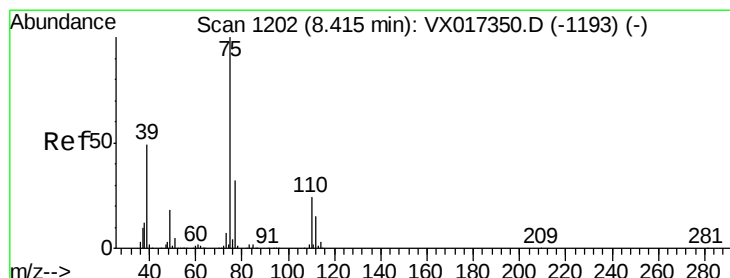
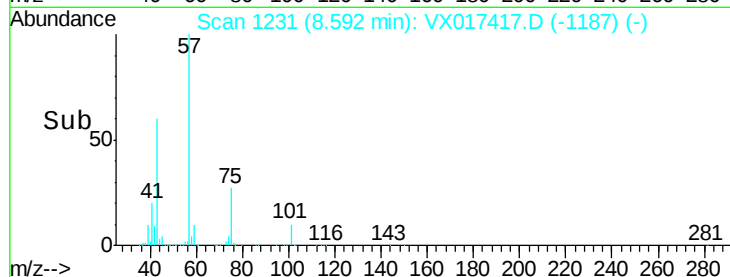
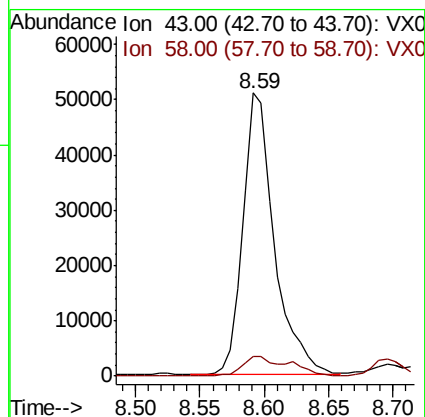
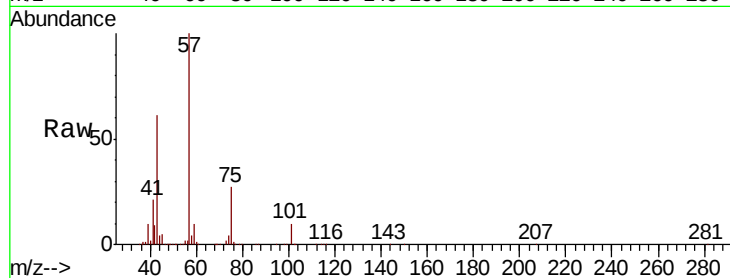
ClientSampleId :

Tot Ion: 43 Resp: 85102

Ion Ratio Lower Upper

43 100

58 7.8 32.2 48.2#



#54

cis-1,3-Dichloropropene

Concen: 6.884 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

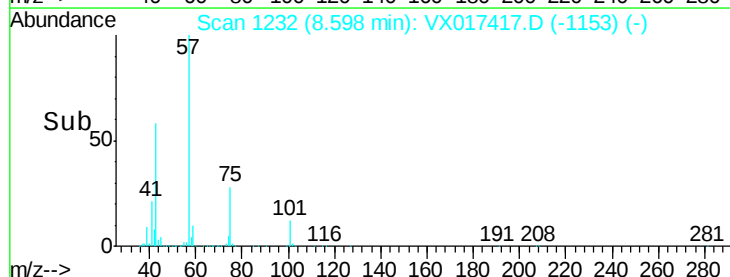
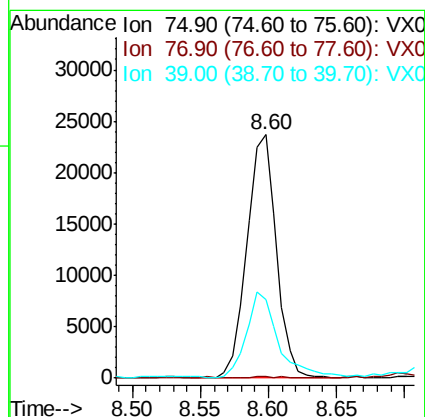
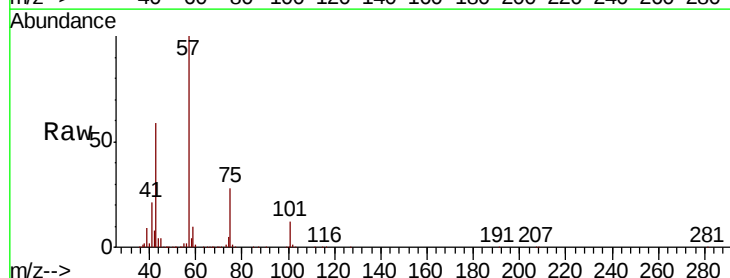
Tgt Ion: 75 Resp: 35984

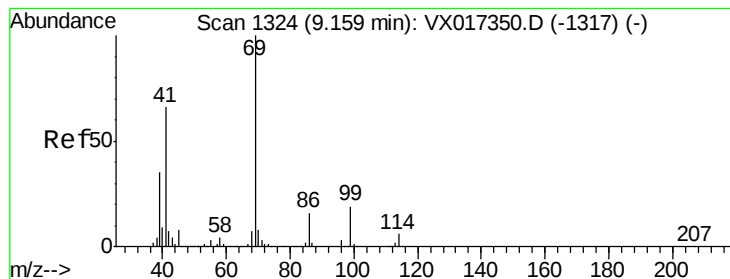
Ion Ratio Lower Upper

75 100

77 0.6 25.3 37.9#

39 31.7 38.9 58.3#





#56

Ethyl methacrylate

Concen: 0.490 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

ClientSampled :

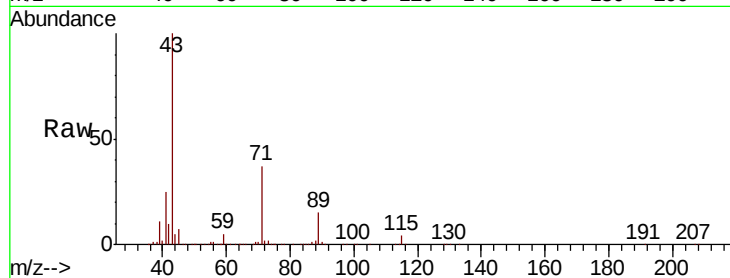
Tot Ion: 69 Resp: 2197

Ion Ratio Lower Upper

69 100

41 3315.5 52.6 78.8#

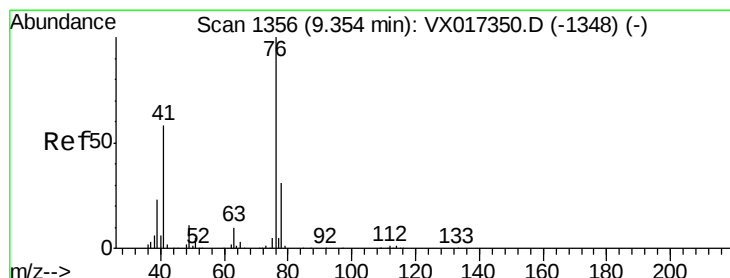
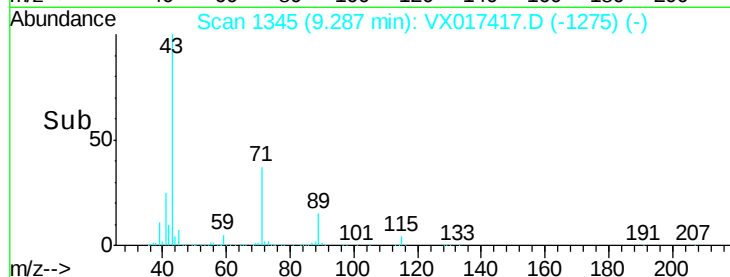
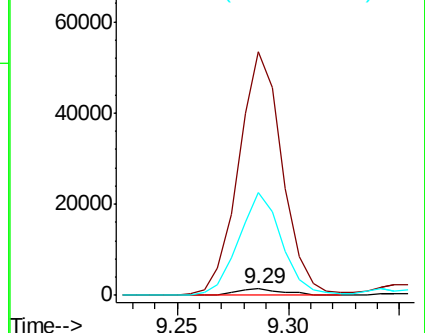
39 1374.4 28.8 43.2#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.344 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017417.D

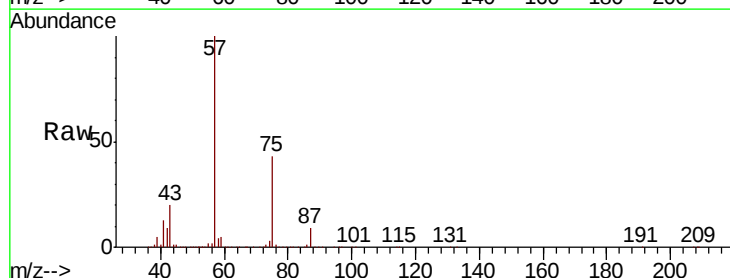
Acq: 17 Jul 2020 14:17

Tgt Ion: 76 Resp: 7056

Ion Ratio Lower Upper

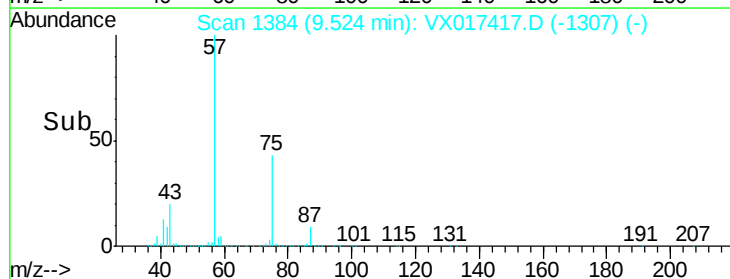
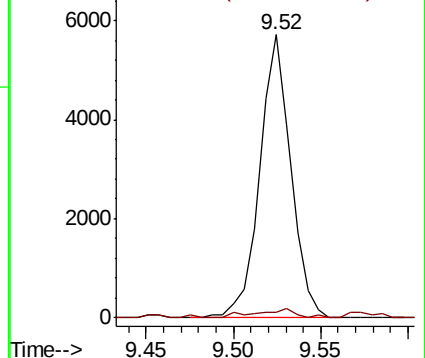
76 100

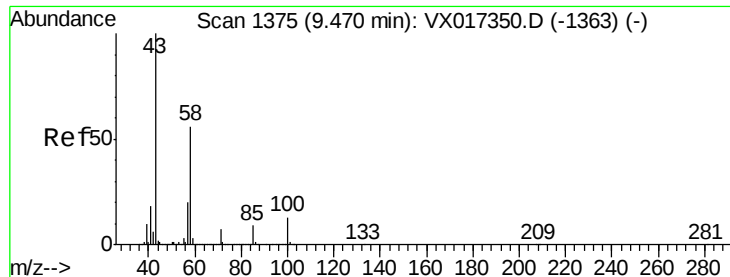
78 4.2 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

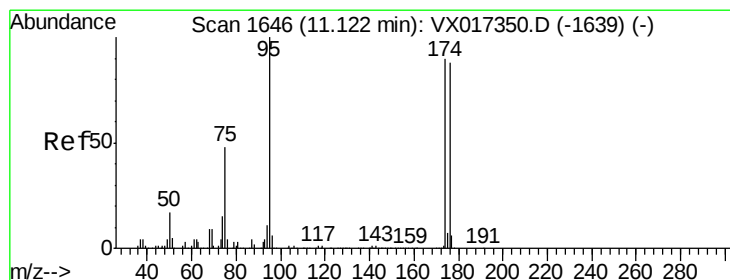
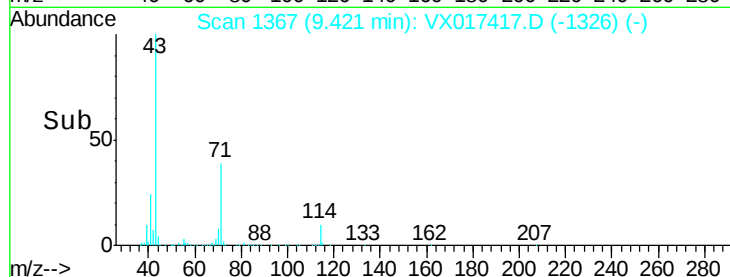
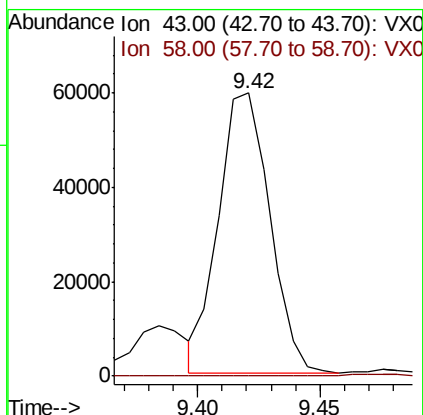
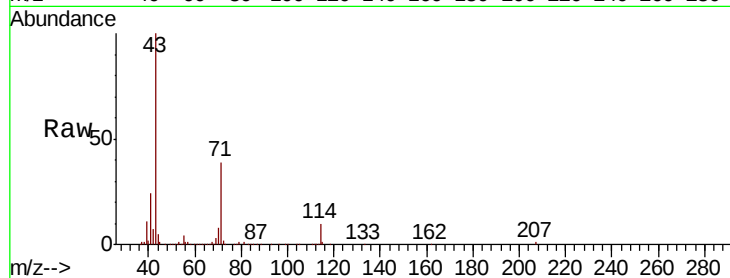




#59
2-Hexanone
Concen: 27.782 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

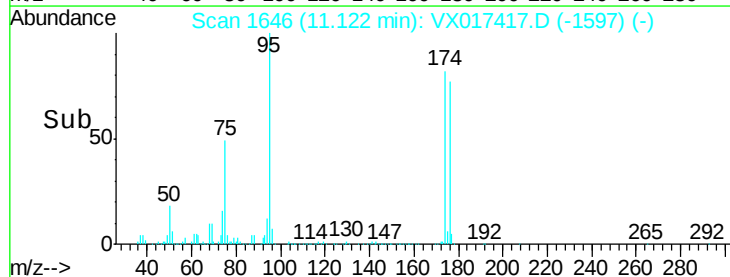
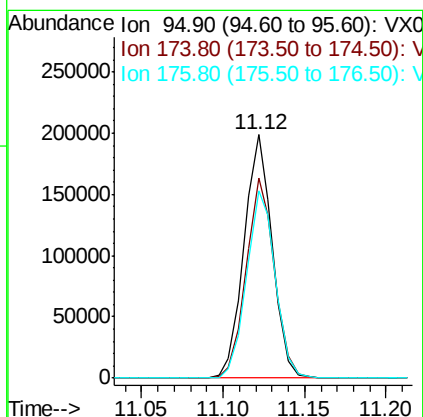
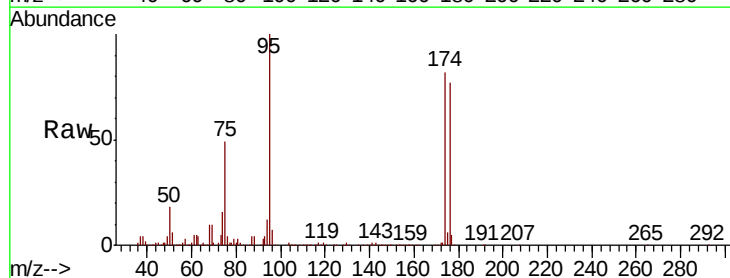
Instrument :
MSVOA_X
ClientSampleId :

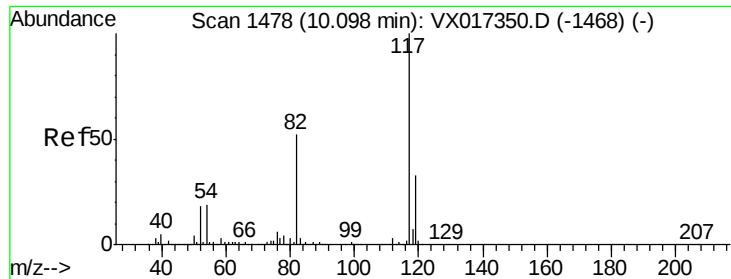
Tot Ion: 43 Resp: 86686
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 55.603 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

Tgt Ion: 95 Resp: 239377
Ion Ratio Lower Upper
95 100
174 82.6 0.0 175.8
176 78.4 0.0 164.6

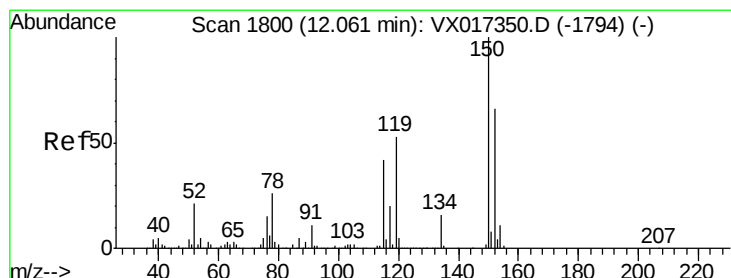
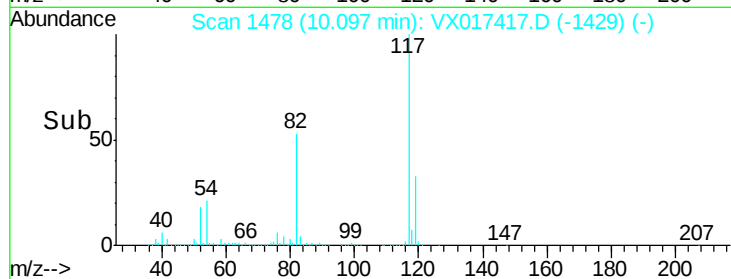
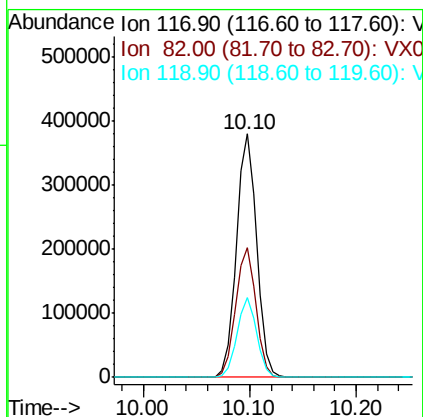
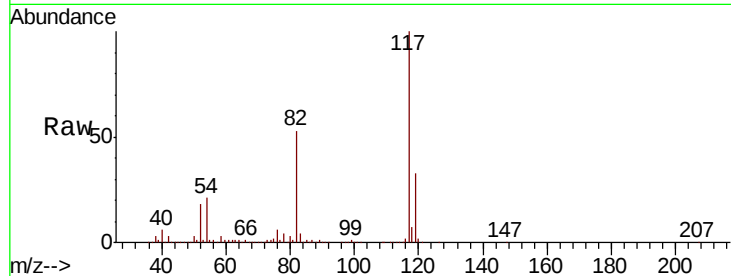




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

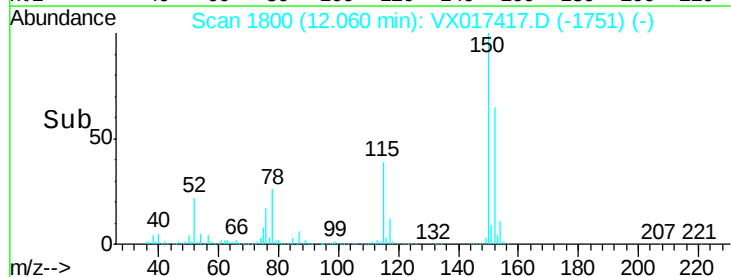
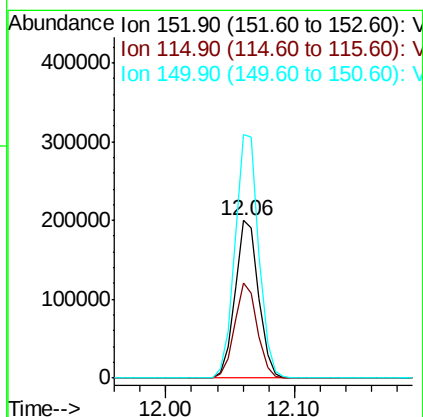
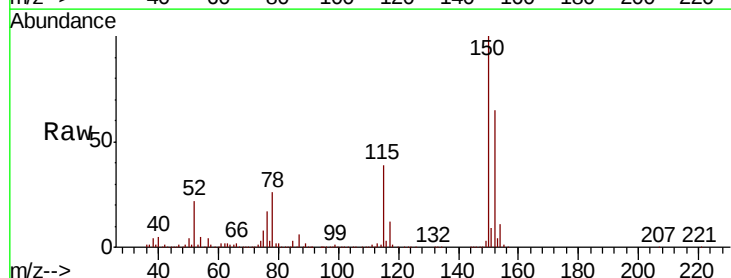
Instrument :
MSVOA_X
ClientSampleId :

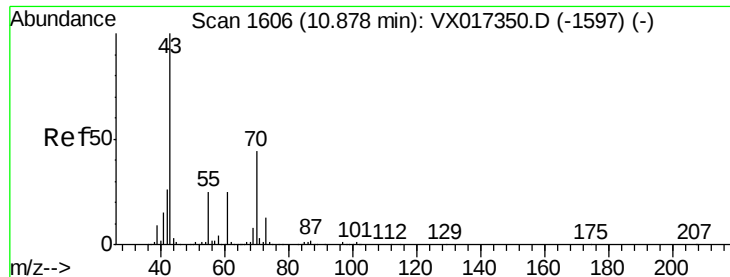
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.0	63.0
119	32.8	26.3	39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017417.D
Acq: 17 Jul 2020 14:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.4	39.9	119.7
150	156.8	0.0	343.4





#74

N-amvl acetate

Concen: 0.630 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 3994

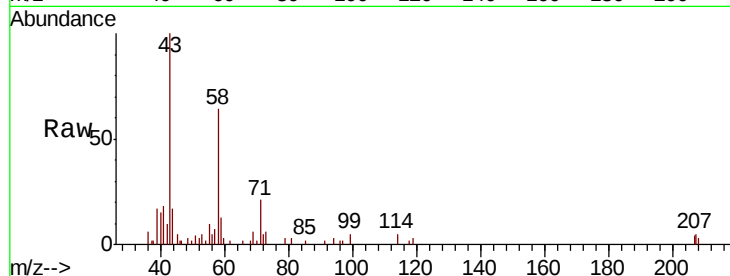
Ion Ratio Lower Upper

43 100

70 2.8 35.7 53.5#

55 13.8 20.3 30.5#

61 0.0 20.0 30.0#

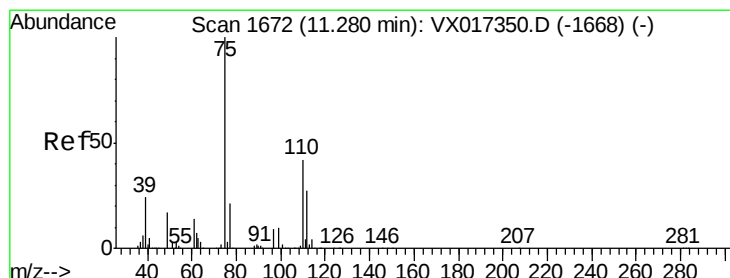
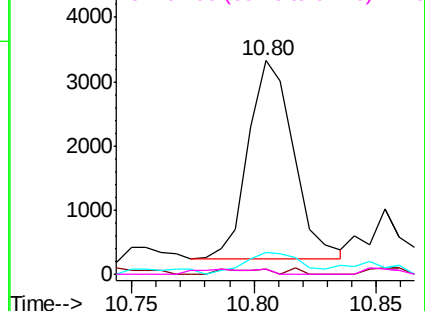
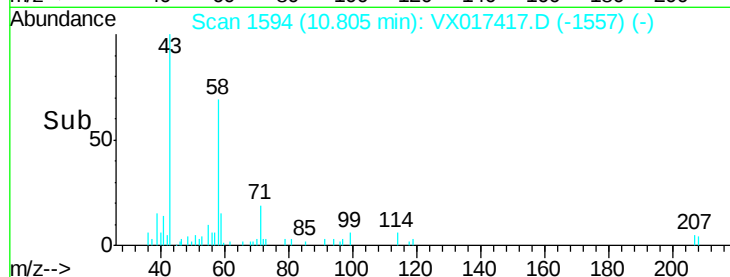


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#76

1,2,3-Trichloropropane

Concen: 25.682 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017417.D

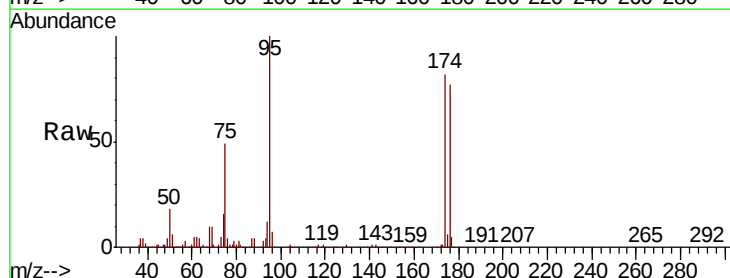
Acq: 17 Jul 2020 14:17

Tgt Ion: 75 Resp: 119925

Ion Ratio Lower Upper

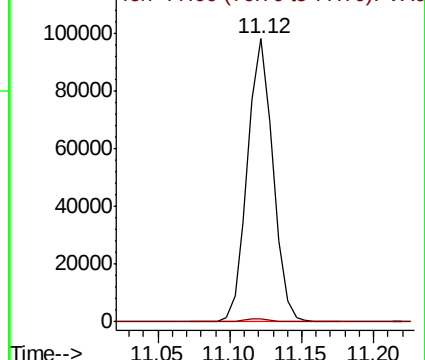
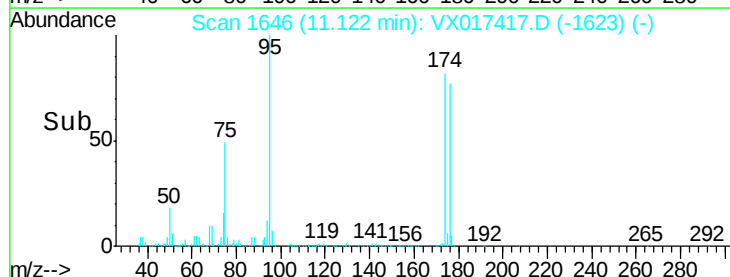
75 100

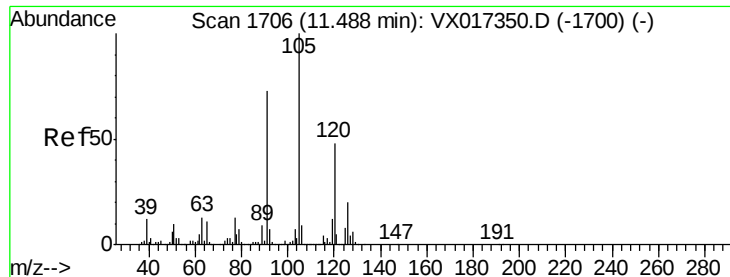
77 1.3 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.521 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

Instrument :

MSVOA_X

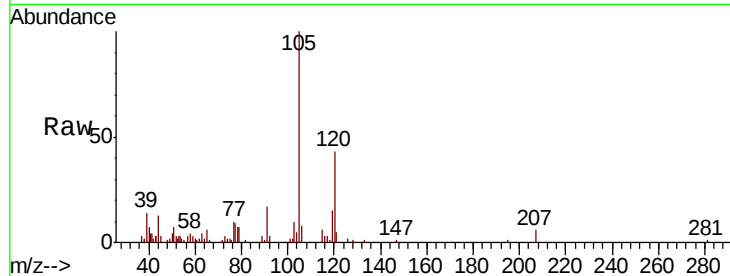
ClientSampleId :

Tot Ion:105 Resp: 7010

Ion Ratio Lower Upper

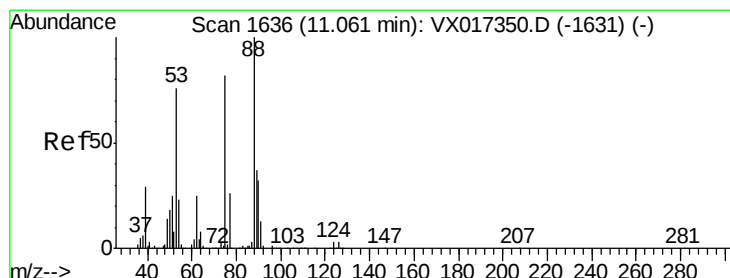
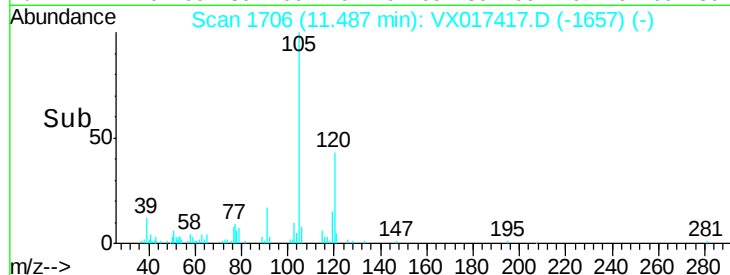
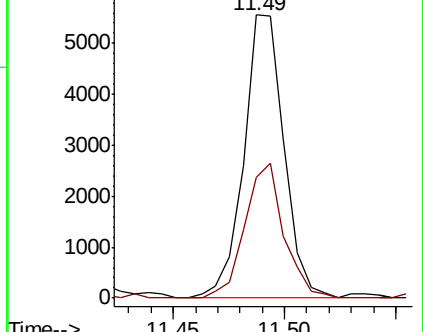
105 100

120 46.4 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.150 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017417.D

Acq: 17 Jul 2020 14:17

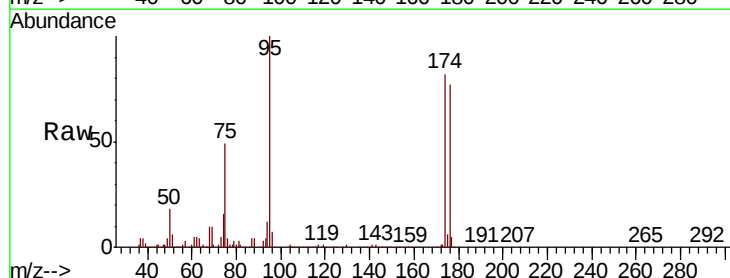
Tgt Ion: 75 Resp: 119925

Ion Ratio Lower Upper

75 100

53 0.5 76.5 114.7#

89 0.0 38.1 57.1#



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

