

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071720\
 Data File : VX017424.D
 Acq On : 17 Jul 2020 16:56
 Operator : JC/SP
 Sample : L3323-05DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

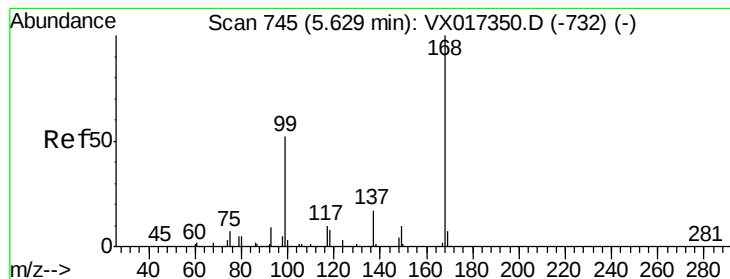
Quant Time: Jul 18 07:00:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	236029	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	433345	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	455081	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	237813	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	168492	56.88	ug/l	0.00
Spiked Amount			Recovery	=	113.76%	
35) Dibromofluoromethane	5.47	113	144561	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	8.70	98	533382	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	11.12	95	223217	53.37	ug/l	0.00
Spiked Amount			Recovery	=	106.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	594	0.264	ug/l #	60
10) Methyl Iodide	2.51	142	44	2.389	ug/l #	39
11) Tert butyl alcohol	3.01	59	10110	20.256	ug/l	96
13) Acrolein	2.27	56	123	0.450	ug/l #	1
15) Acrylonitrile	3.13	53	423	0.350	ug/l #	72
16) Acetone	2.42	43	178163	168.580	ug/l	96
17) Carbon Disulfide	2.56	76	1443	0.230	ug/l #	52
18) Methyl Acetate	2.76	43	705	0.270	ug/l #	83
20) Methylene Chloride	2.84	84	2489	0.965	ug/l #	88
25) 2-Butanone	4.64	43	67055	39.947	ug/l	99
29) Tetrahydrofuran	5.10	42	451	0.415	ug/l #	83
31) Cyclohexane	5.64	56	4837	1.418	ug/l #	15
36) 1,1-Dichloropropene	5.63	75	18284	4.587	ug/l #	51
37) Ethyl Acetate	4.64	43	67055	16.267	ug/l #	69
38) Carbon Tetrachloride	5.63	117	24304	5.208	ug/l #	17
49) 1,4-Dioxane	7.74	88	78	1.206	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	4585	1.142	ug/l	96
59) 2-Hexanone	9.48	43	6640	2.190	ug/l	97
74) N-amyl acetate	10.92	43	1831	0.307	ug/l #	41
76) 1,2,3-Trichloropropane	11.12	75	111485	25.370	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	111485	64.358	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX017424.D

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Instrument :

MSVOA_X

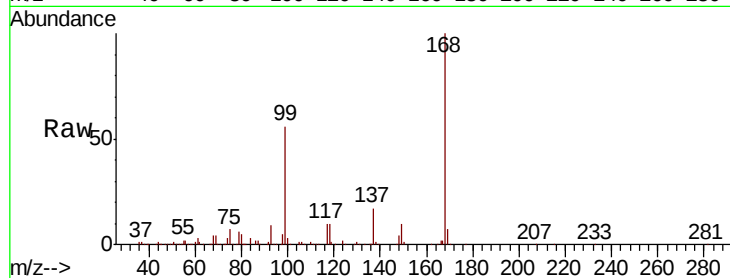
ClientSampleId :

Tot Ion:168 Resp: 236029

Ion Ratio Lower Upper

168 100

99 56.0 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

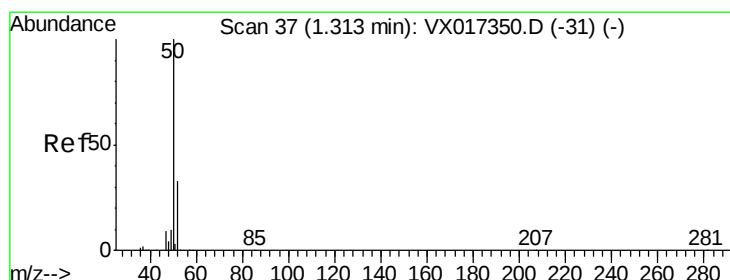
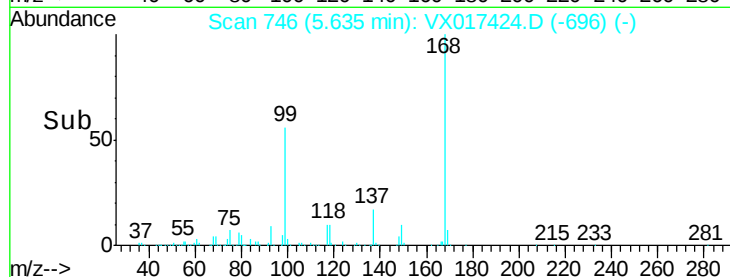
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.264 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017424.D

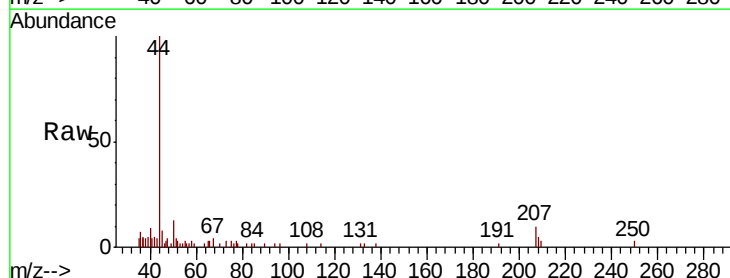
Acq: 17 Jul 2020 16:56

Tgt Ion: 50 Resp: 594

Ion Ratio Lower Upper

50 100

52 10.6 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

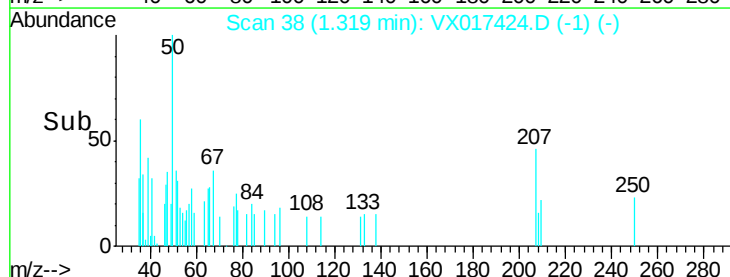
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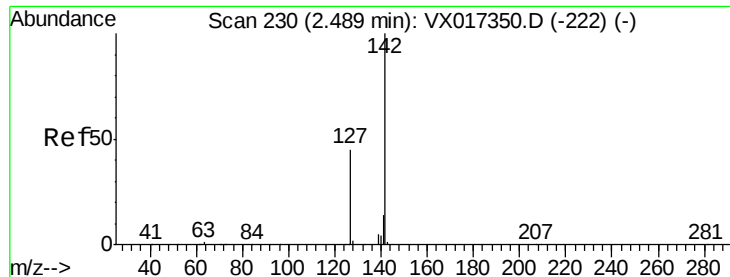
100

0

1.25 1.30 1.35

Time-->

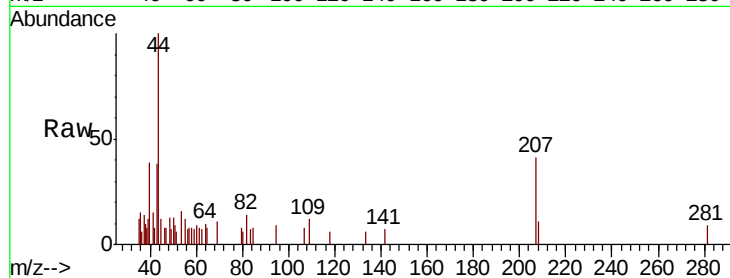




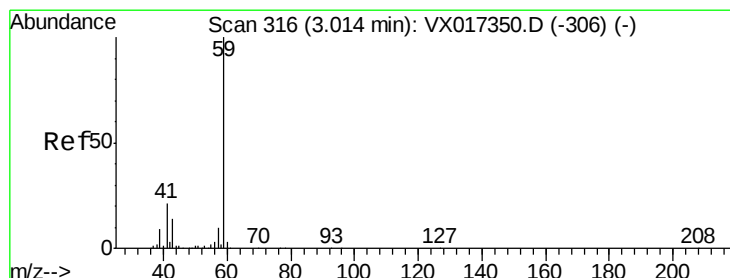
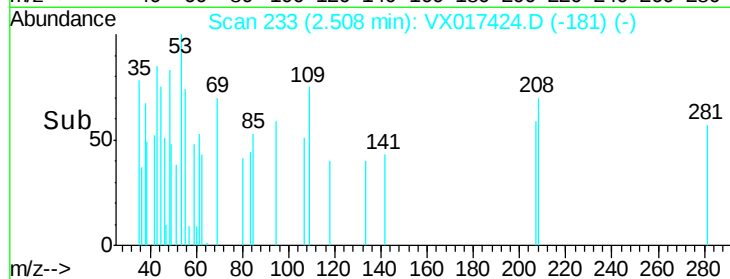
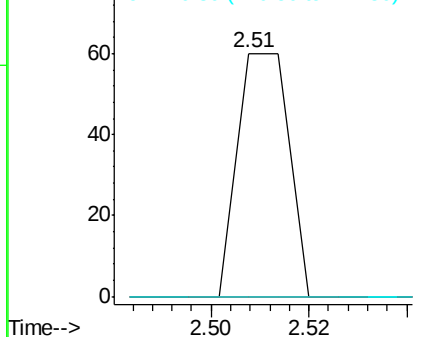
#10
Methyl Iodide
Concen: 2.389 ug/l
RT: 2.51 min Scan# 233
Delta R.T. 0.02 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 44
Ion Ratio Lower Upper
142 100
127 0.0 36.8 55.2#
141 0.0 11.4 17.0#

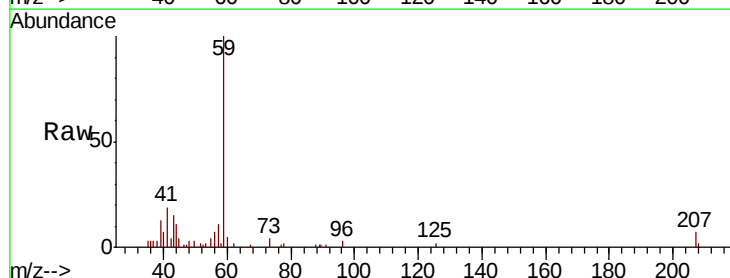


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

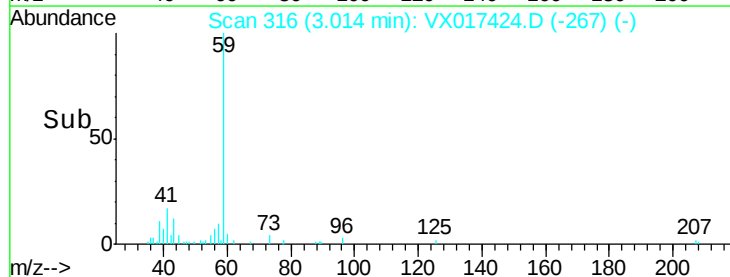
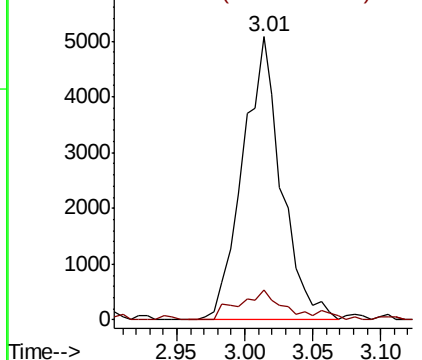


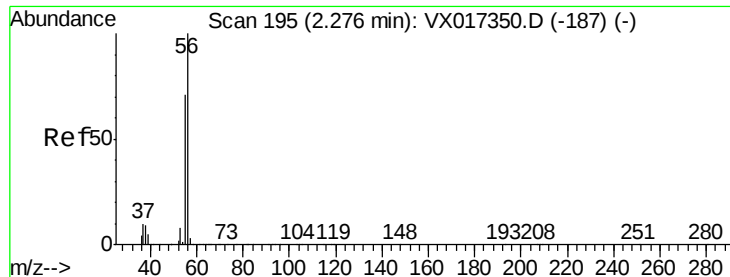
#11
Tert butyl alcohol
Concen: 20.256 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

Tgt Ion: 59 Resp: 10110
Ion Ratio Lower Upper
59 100
57 11.8 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: 0.450 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

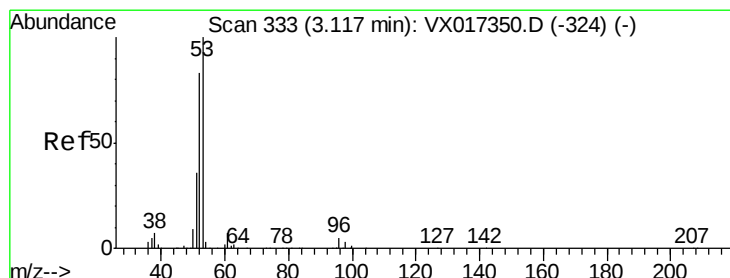
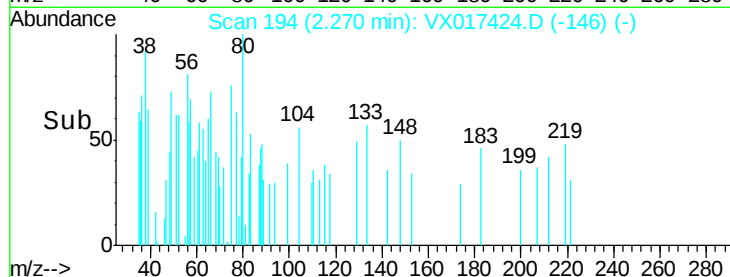
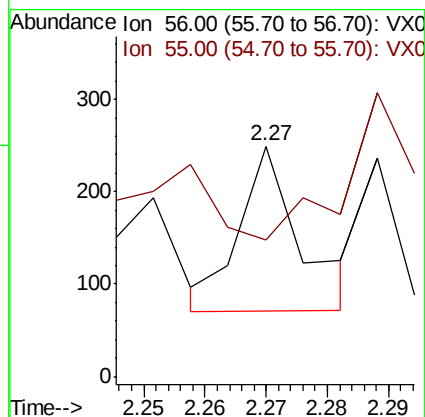
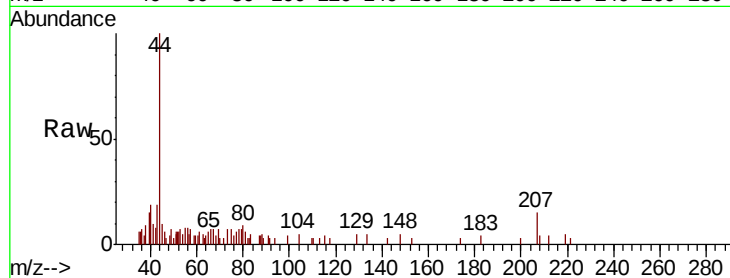
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 123

Ion Ratio Lower Upper

56 100

55 177.2 57.1 85.7#



#15

Acrylonitrile

Concen: 0.350 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

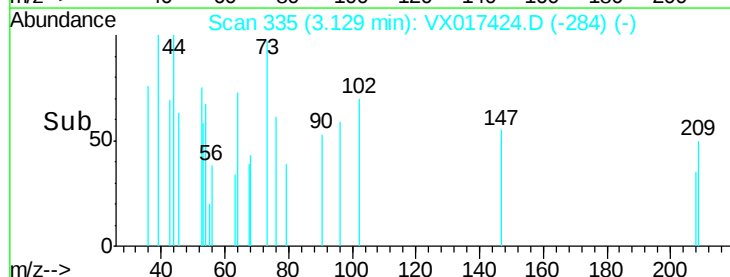
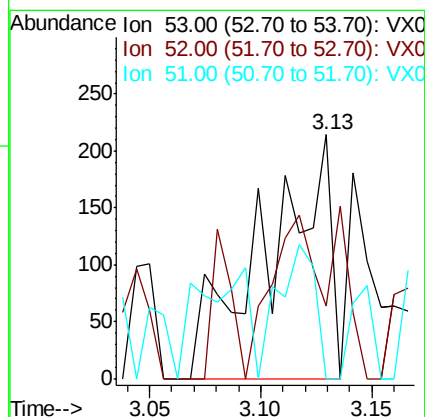
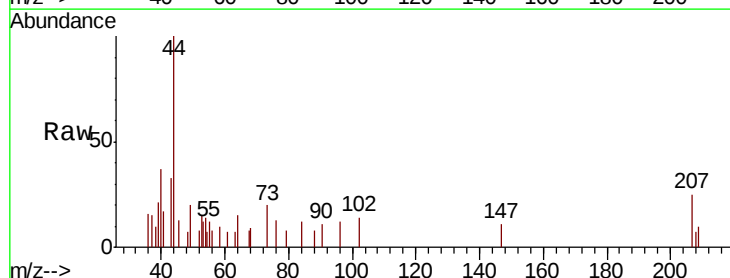
Tgt Ion: 53 Resp: 423

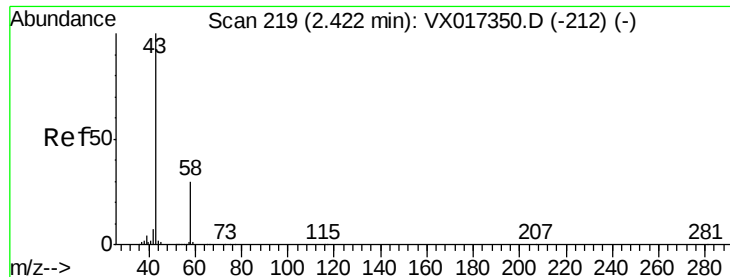
Ion Ratio Lower Upper

53 100

52 49.6 65.8 98.6#

51 31.9 29.2 43.8





#16

Acetone

Concen: 168.580 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

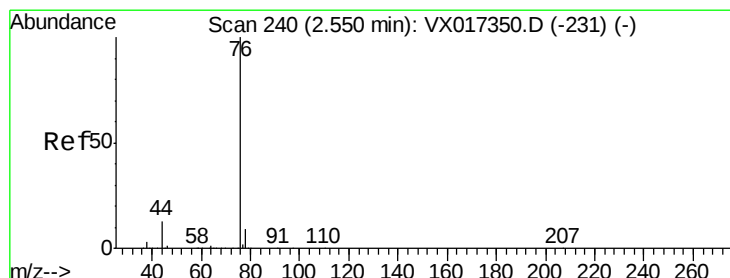
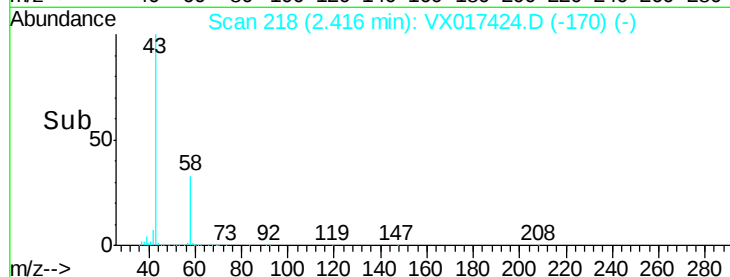
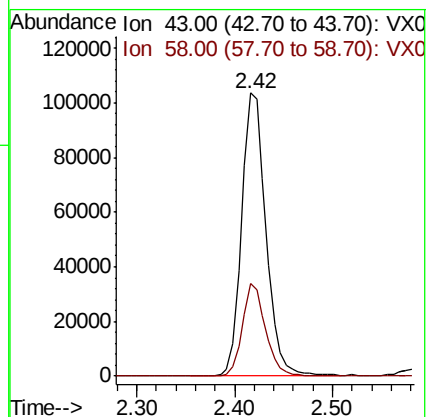
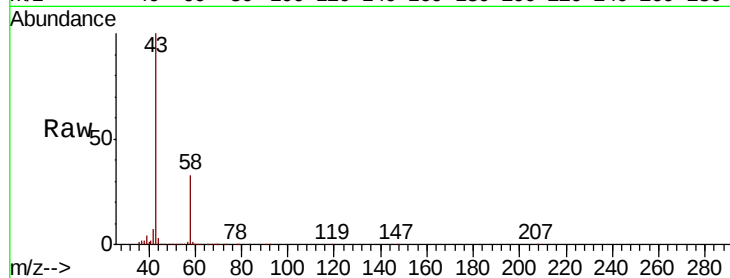
ClientSampleId :

Tot Ion: 43 Resp: 178163

Ion Ratio Lower Upper

43 100

58 32.5 24.2 36.2



#17

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017424.D

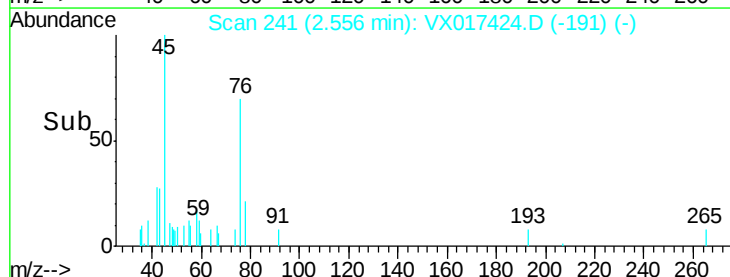
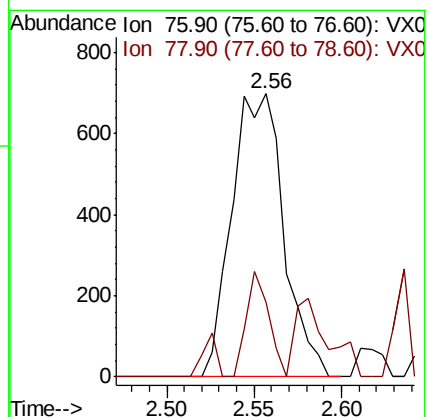
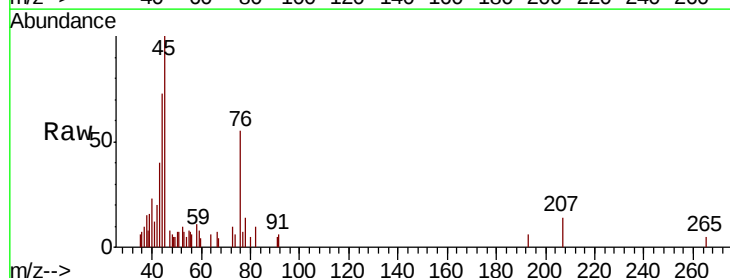
Acq: 17 Jul 2020 16:56

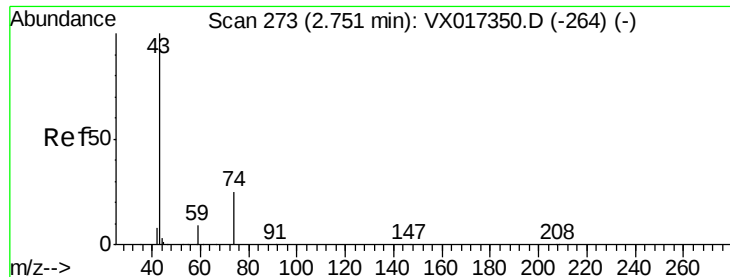
Tgt Ion: 76 Resp: 1443

Ion Ratio Lower Upper

76 100

78 26.4 7.3 10.9#

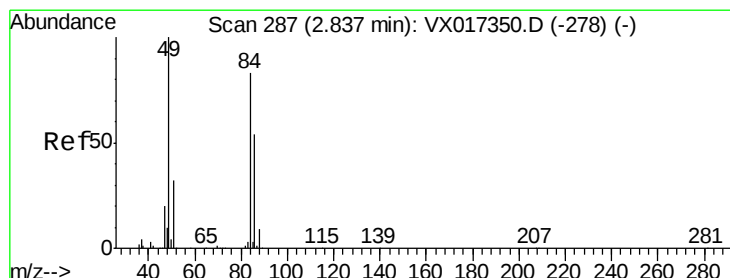
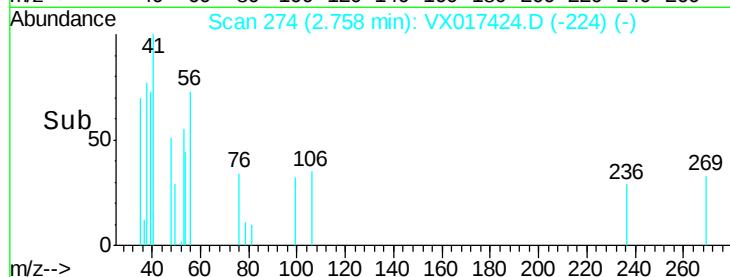
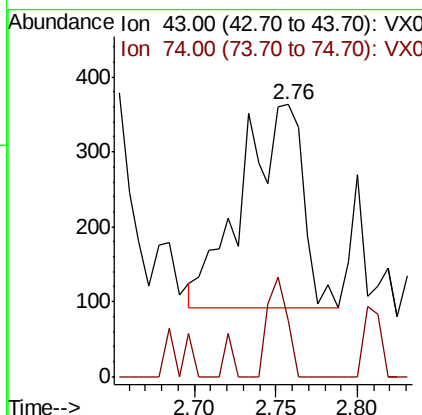
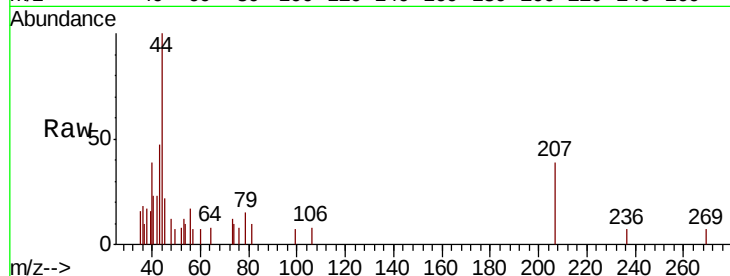




#18
Methyl Acetate
Concen: 0.270 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

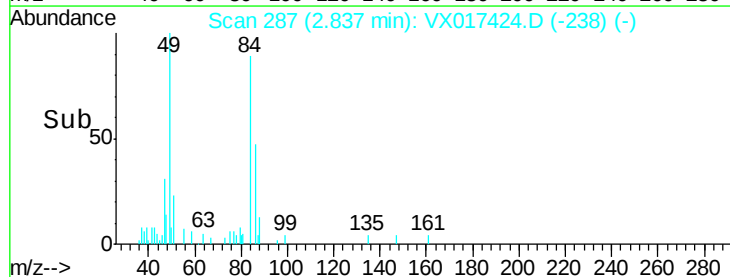
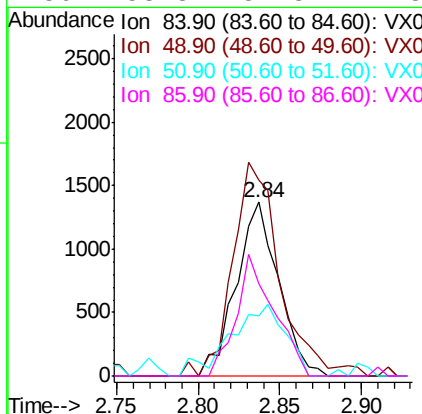
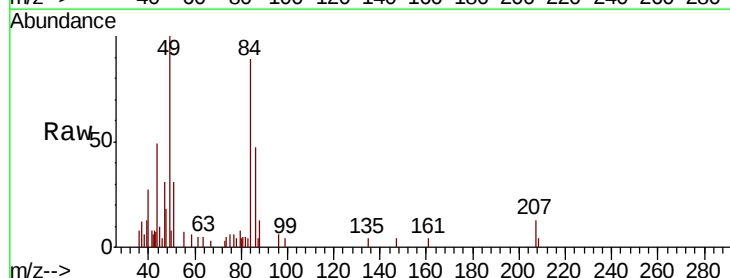
Instrument :
MSVOA_X
ClientSampled :

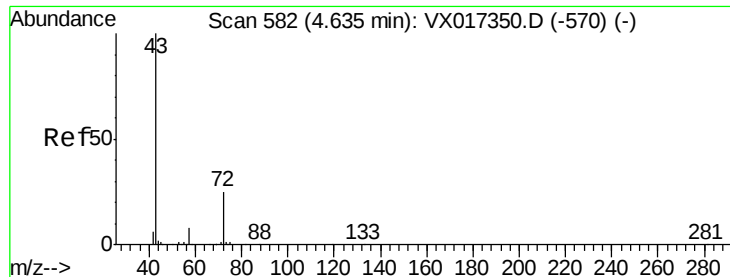
Tot Ion: 43 Resp: 705
Ion Ratio Lower Upper
43 100
74 15.7 19.4 29.2#



#20
Methylene Chloride
Concen: 0.965 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

Tgt Ion: 84 Resp: 2489
Ion Ratio Lower Upper
84 100
49 107.9 95.8 143.8
51 30.9 31.0 46.4#
86 53.3 51.8 77.8





#25

2-Butanone

Concen: 39.947 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

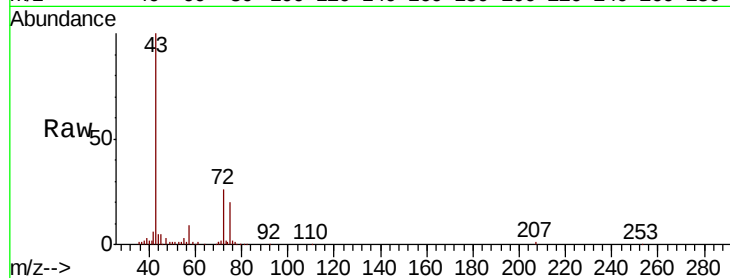
ClientSampled :

Tot Ion: 43 Resp: 67055

Ion Ratio Lower Upper

43 100

72 25.9 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.64

25000

20000

15000

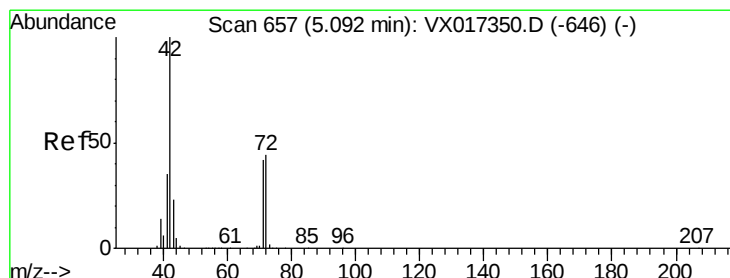
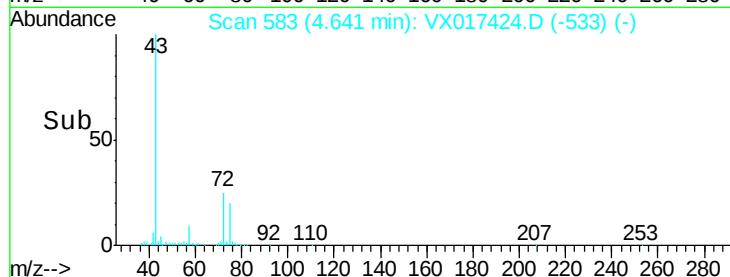
10000

5000

0

Time-->

4.50 4.60 4.70 4.80



#29

Tetrahydrofuran

Concen: 0.415 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

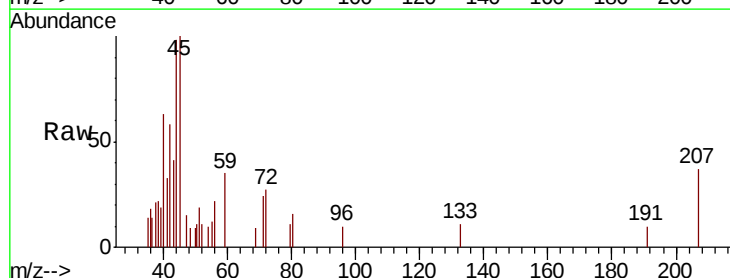
Tgt Ion: 42 Resp: 451

Ion Ratio Lower Upper

42 100

72 32.8 37.2 55.8#

71 34.6 34.4 51.6



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

400

300

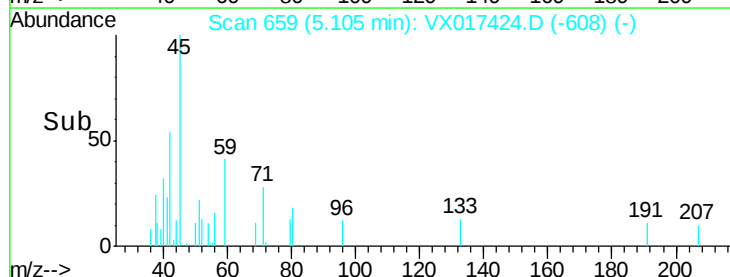
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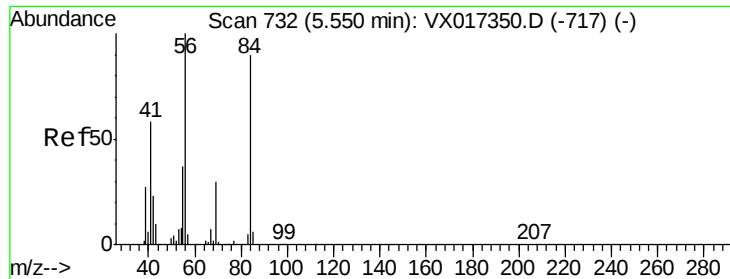
100

0

Time-->

5.06 5.08 5.10 5.12





#31

Cyclohexane

Concen: 1.418 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :
MSVOA_X
ClientSampled :

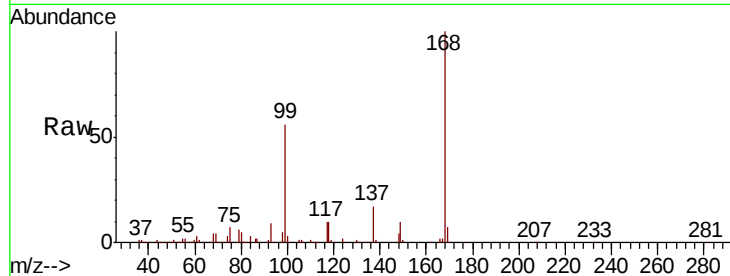
Tot Ion: 56 Resp: 4837

Ion Ratio Lower Upper

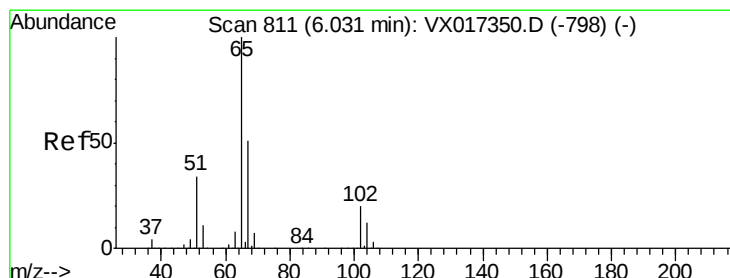
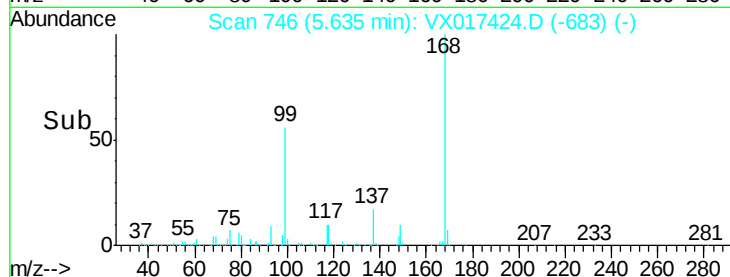
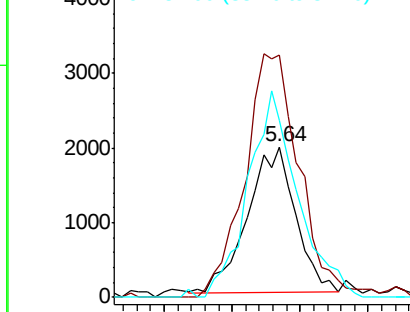
56 100

69 167.0 23.7 35.5#

84 116.4 71.8 107.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 56.878 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX017424.D

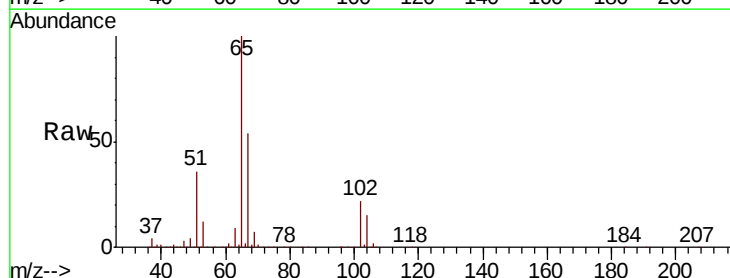
Acq: 17 Jul 2020 16:56

Tgt Ion: 65 Resp: 168492

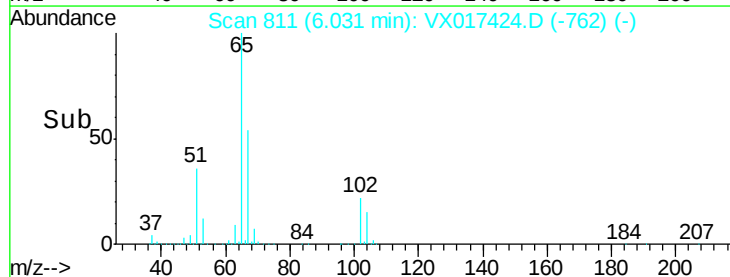
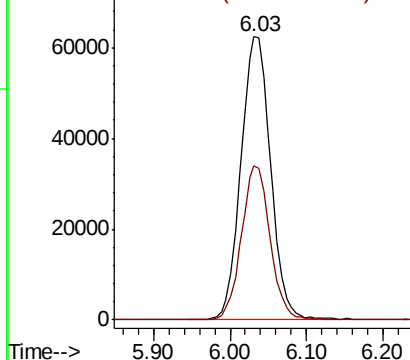
Ion Ratio Lower Upper

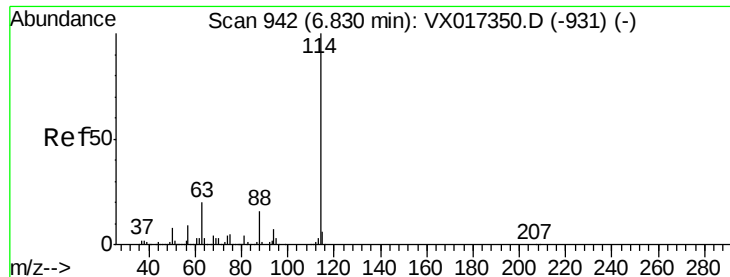
65 100

67 52.4 0.0 101.6



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: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

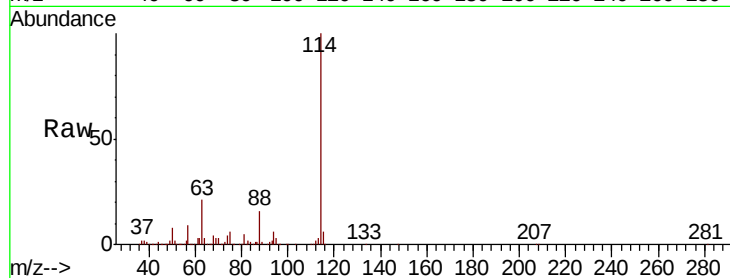
Tot Ion:114 Resp: 433345

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.0

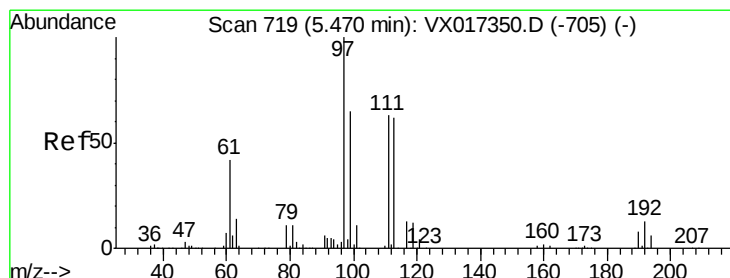
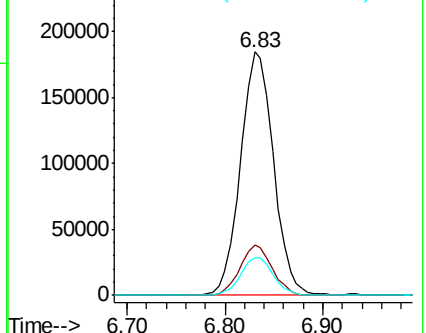
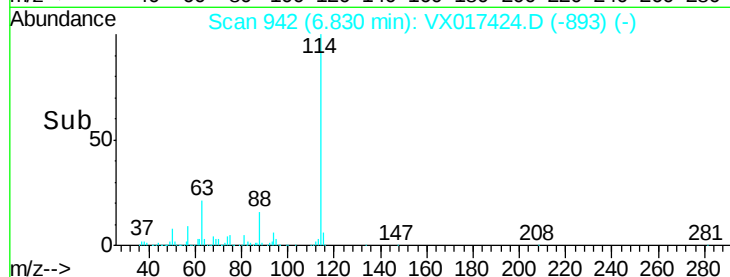
88 15.7 0.0 32.8



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: 49.523 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

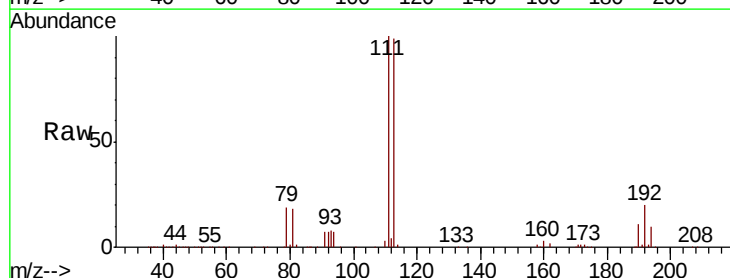
Tgt Ion:113 Resp: 144561

Ion Ratio Lower Upper

113 100

111 102.7 82.4 123.6

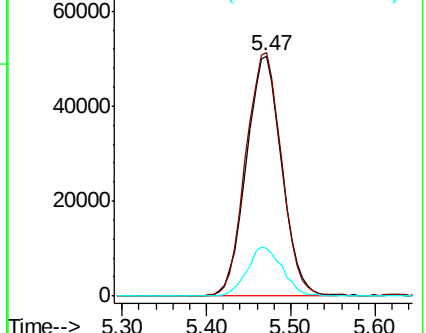
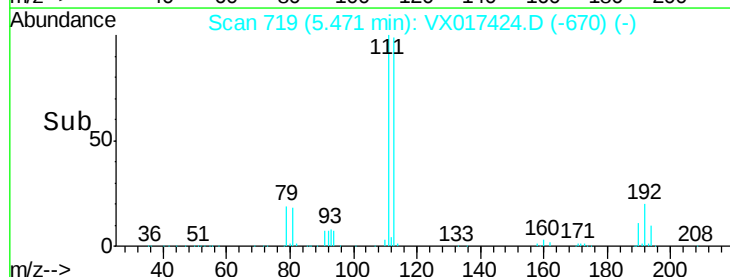
192 20.5 17.2 25.8

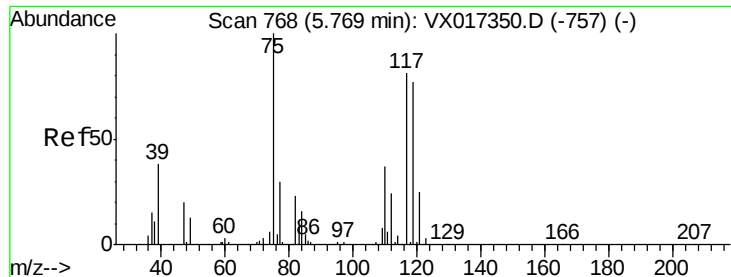


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.587 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

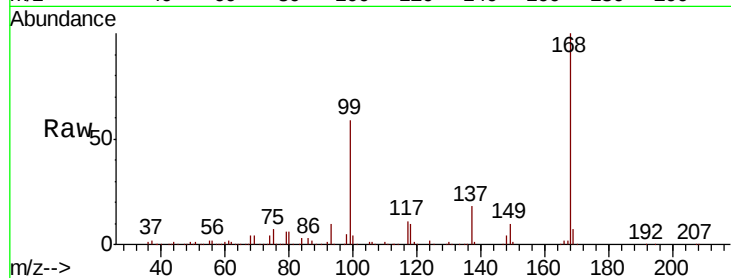
Tot Ion: 75 Resp: 18284

Ion Ratio Lower Upper

75 100

110 10.9 18.6 55.8#

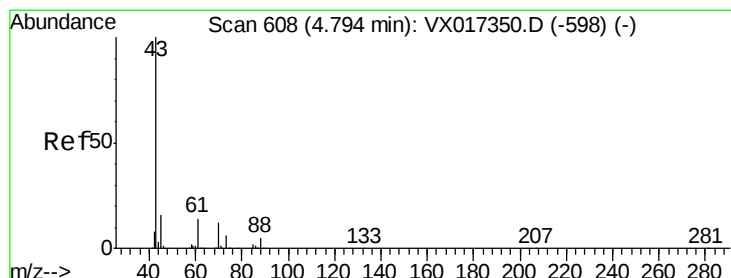
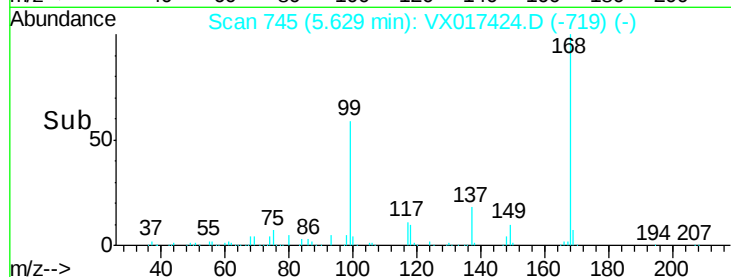
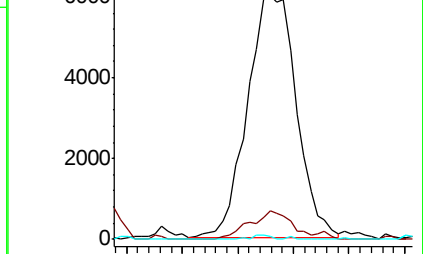
77 0.7 24.9 37.3#



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



#37

Ethyl Acetate

Concen: 16.267 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

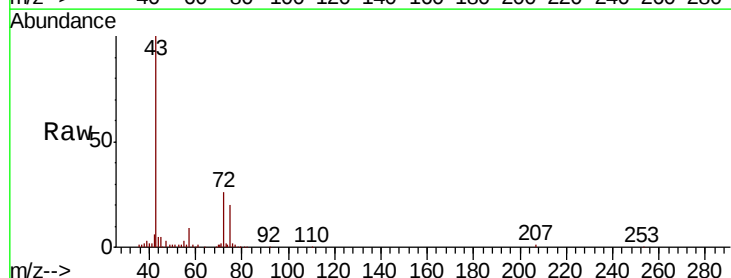
Tgt Ion: 43 Resp: 67055

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

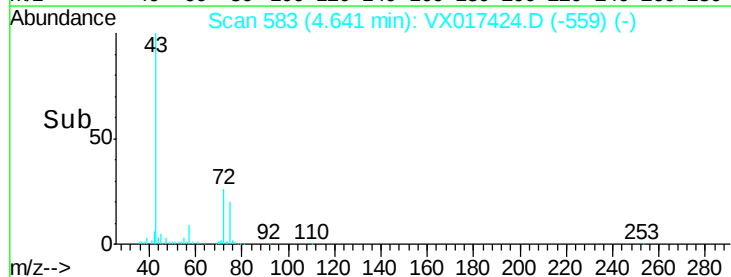
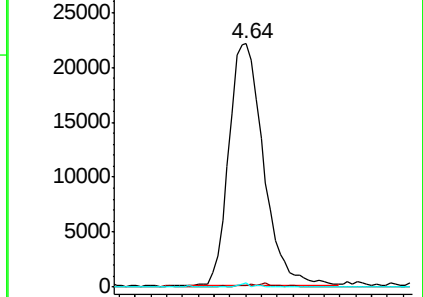
70 0.6 9.0 13.6#

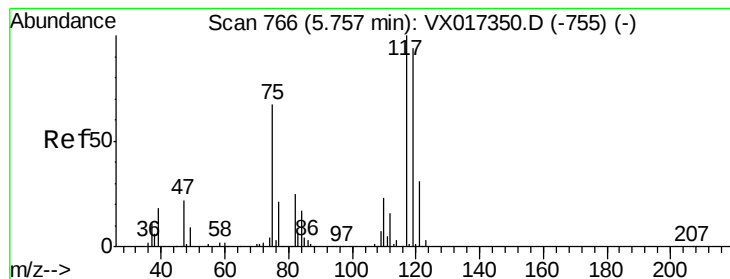


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.208 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

ClientSampled :

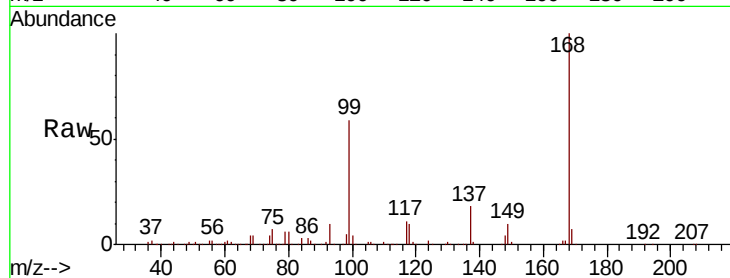
Tot Ion:117 Resp: 24304

Ion Ratio Lower Upper

117 100

119 5.6 74.7 112.1#

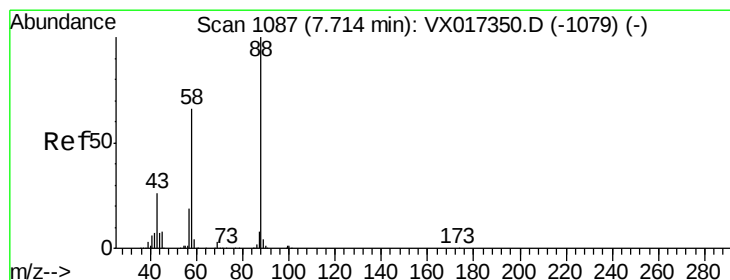
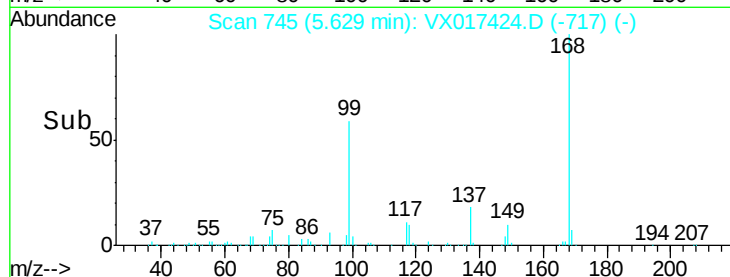
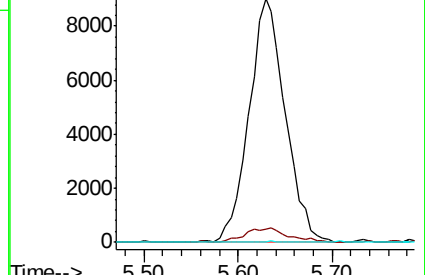
121 0.0 24.5 36.7#



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



#49

1,4-Dioxane

Concen: 1.206 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

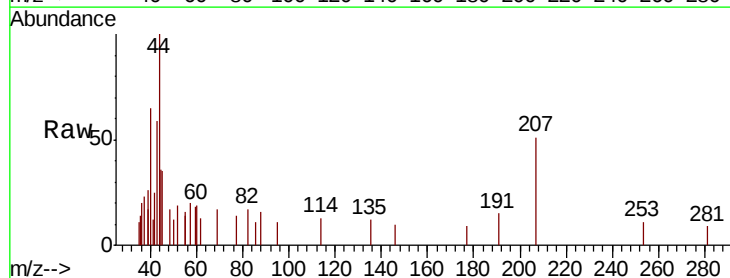
Tgt Ion: 88 Resp: 78

Ion Ratio Lower Upper

88 100

43 0.0 25.6 38.4#

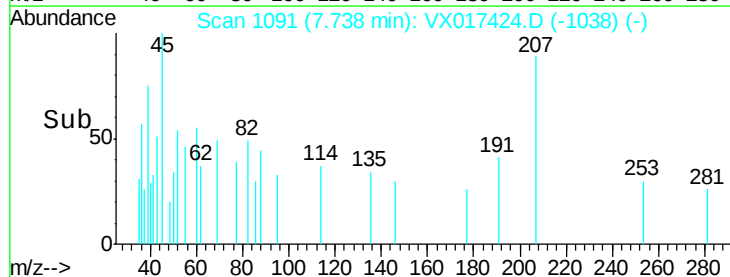
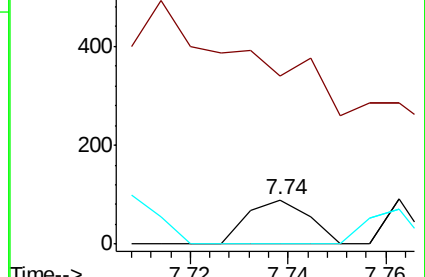
58 0.0 53.9 80.9#

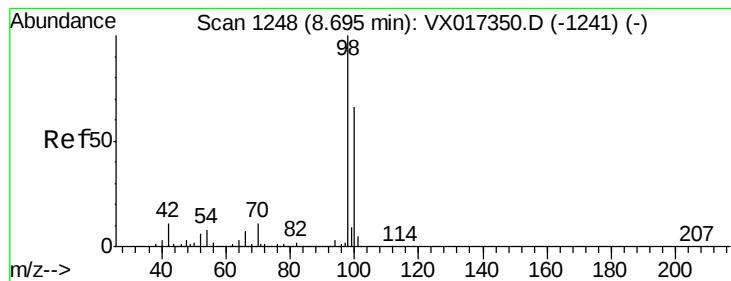


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.656 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

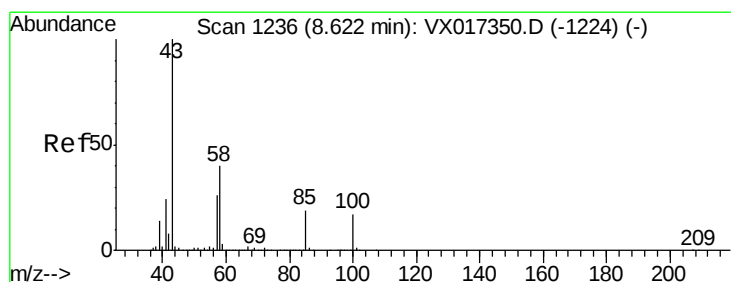
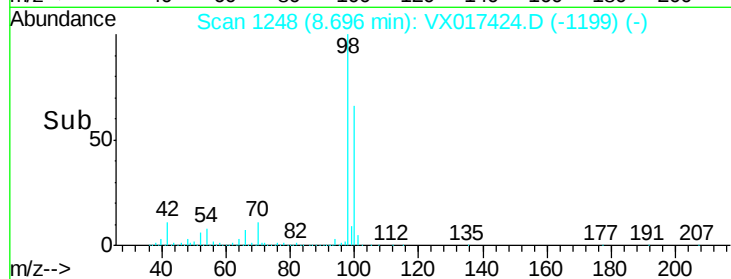
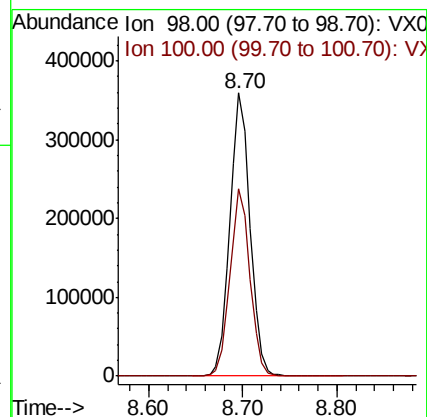
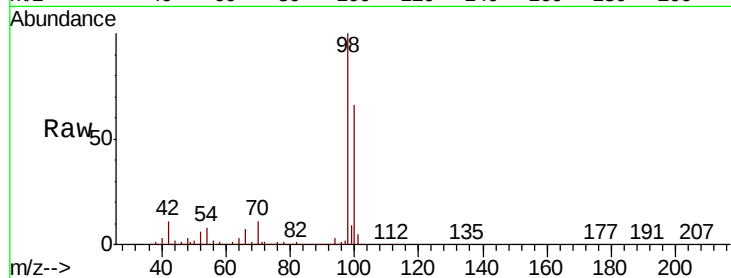
ClientSampled :

Tot Ion: 98 Resp: 533382

Ion Ratio Lower Upper

98 100

100 65.1 53.4 80.2



#51

4-Methyl-2-Pentanone

Concen: 1.142 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VX017424.D

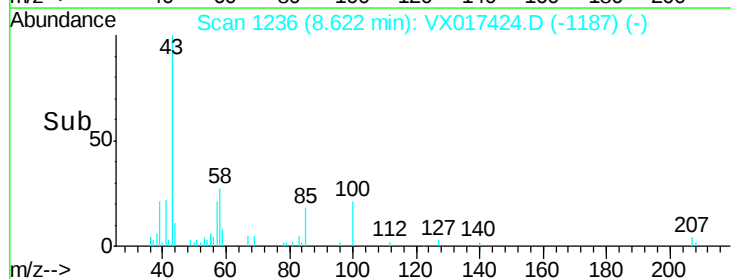
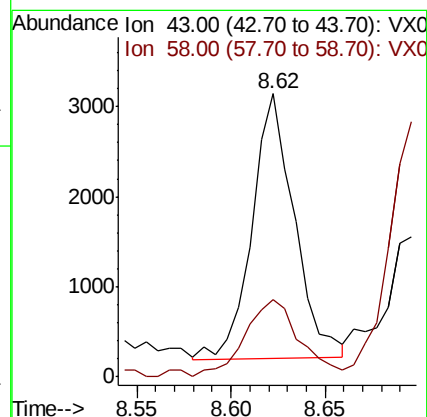
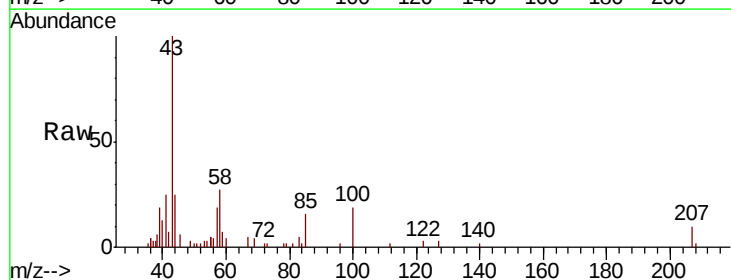
Acq: 17 Jul 2020 16:56

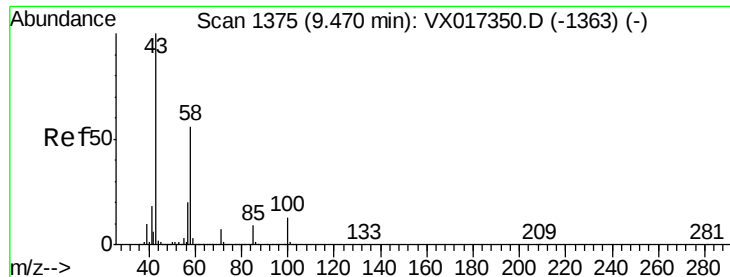
Tgt Ion: 43 Resp: 4585

Ion Ratio Lower Upper

43 100

58 37.8 32.2 48.2

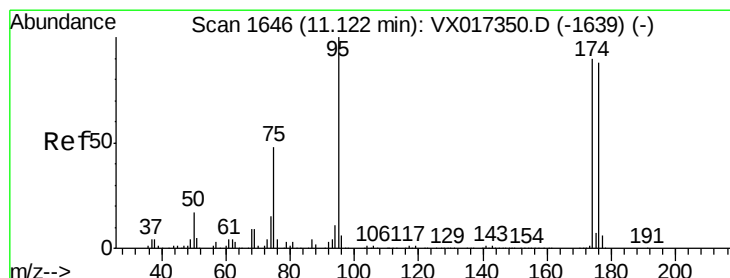
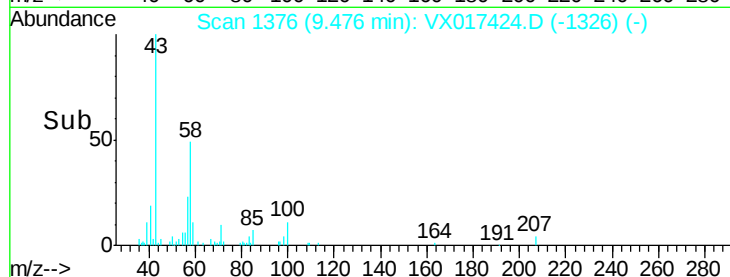
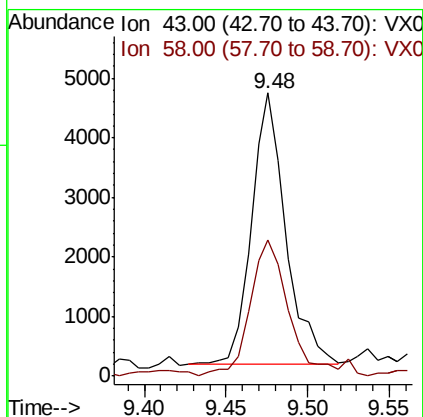
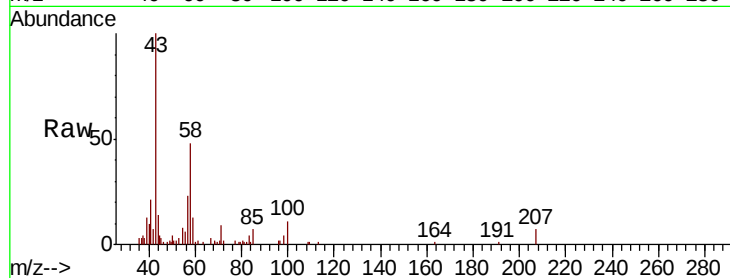




#59
2-Hexanone
Concen: 2.190 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

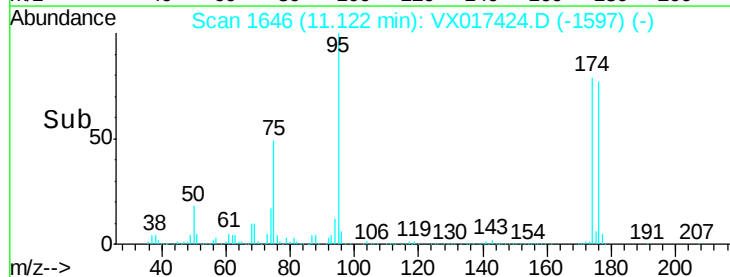
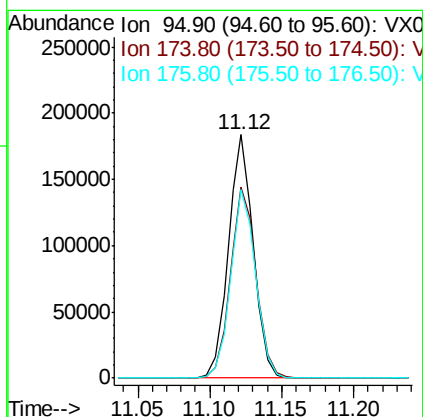
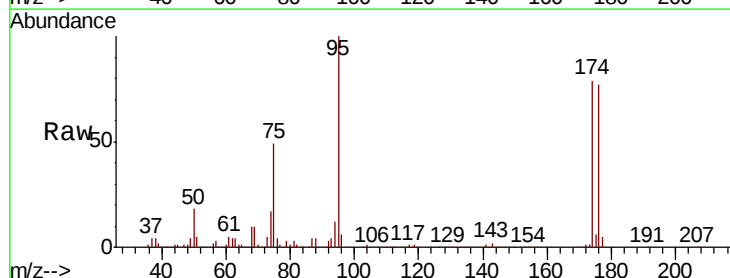
Instrument :
MSVOA_X
ClientSampled :

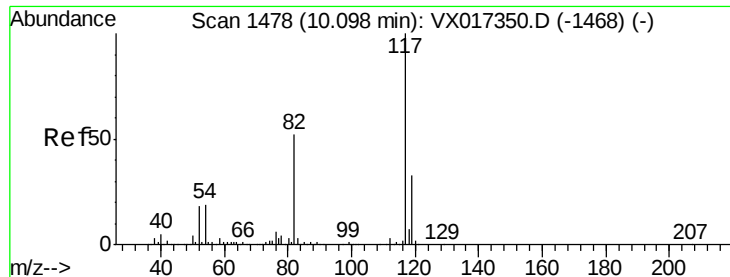
Tot Ion: 43 Resp: 6640
Ion Ratio Lower Upper
43 100
58 58.3 28.1 84.3



#62
4-Bromofluorobenzene
Concen: 53.369 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

Tgt Ion: 95 Resp: 223217
Ion Ratio Lower Upper
95 100
174 80.4 0.0 175.8
176 77.7 0.0 164.6

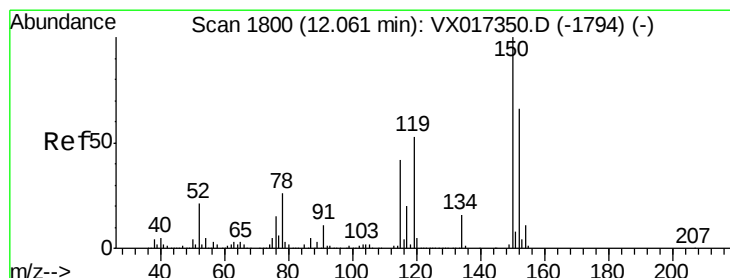
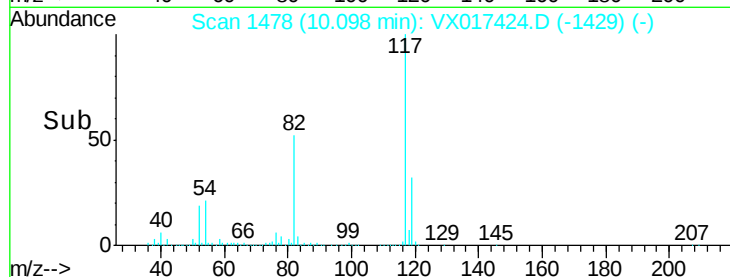
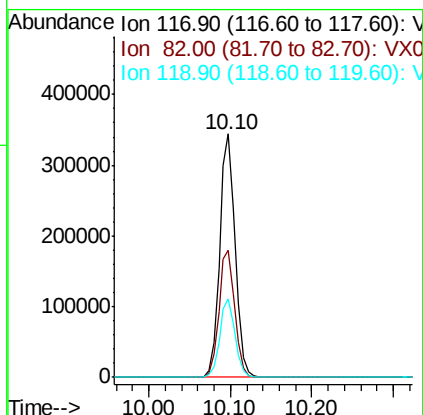
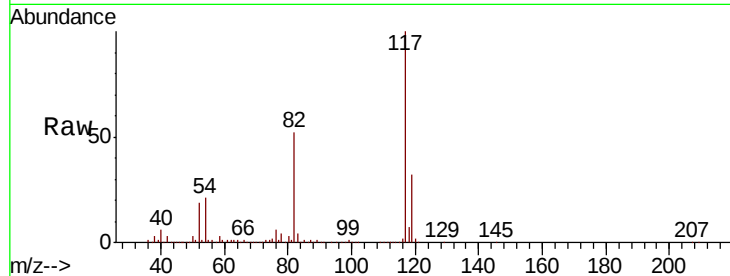




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

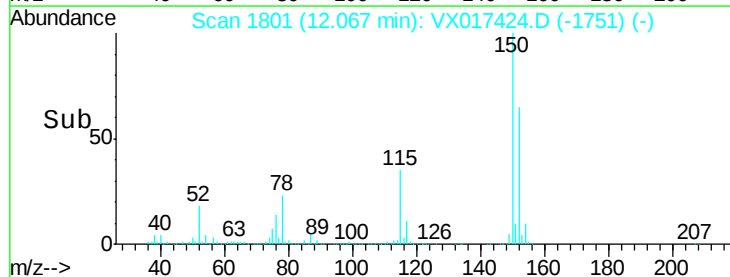
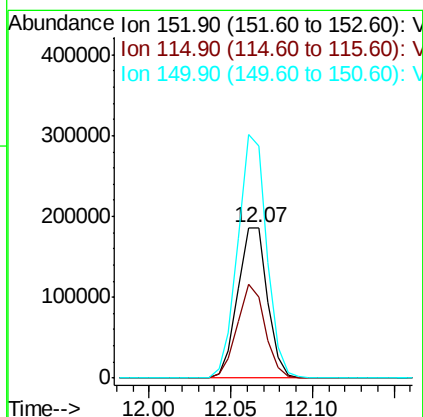
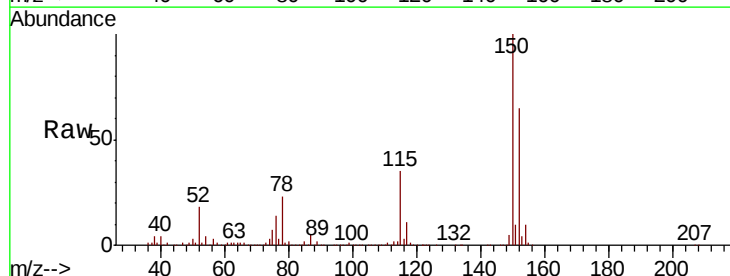
Instrument :
MSVOA_X
ClientSampleId :

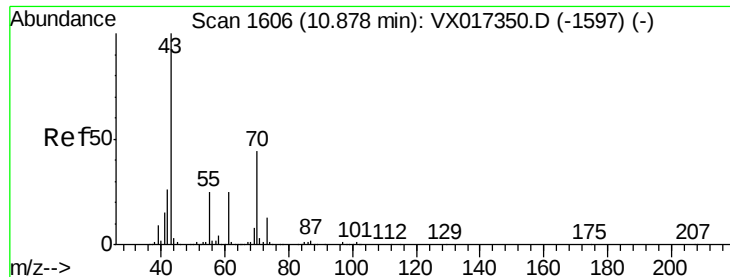
Tot Ion:117 Resp: 455081
Ion Ratio Lower Upper
117 100
82 52.2 42.0 63.0
119 32.0 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX017424.D
Acq: 17 Jul 2020 16:56

Tgt Ion:152 Resp: 237813
Ion Ratio Lower Upper
152 100
115 58.5 39.9 119.7
150 157.0 0.0 343.4





#74

N-amvl acetate

Concen: 0.307 ug/l

RT: 10.92 min Scan# 1613

Delta R.T. 0.04 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 1831

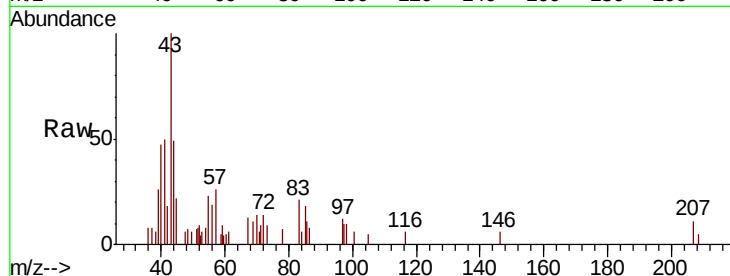
Ion Ratio Lower Upper

43 100

70 0.0 35.7 53.5#

55 0.0 20.3 30.5#

61 0.0 20.0 30.0#

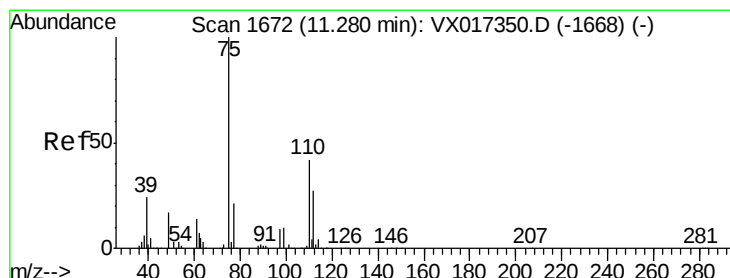
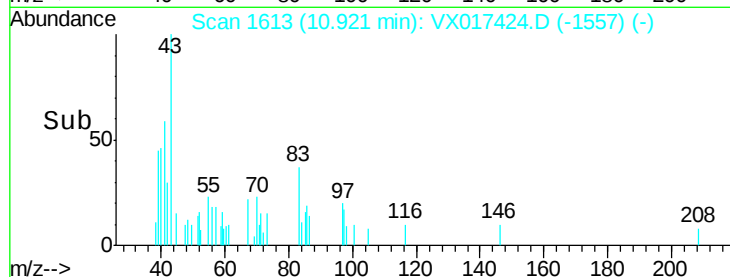
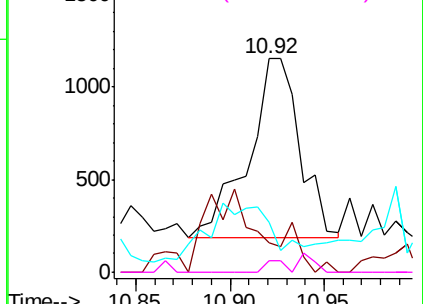


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.370 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017424.D

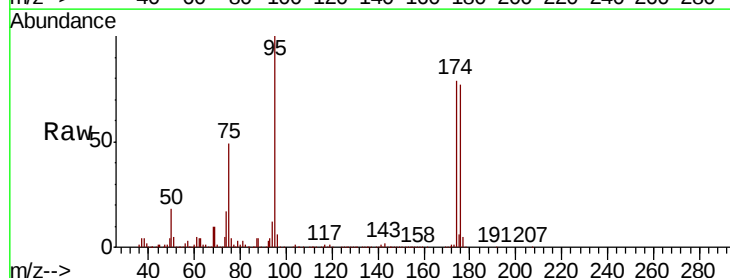
Acq: 17 Jul 2020 16:56

Tgt Ion: 75 Resp: 111485

Ion Ratio Lower Upper

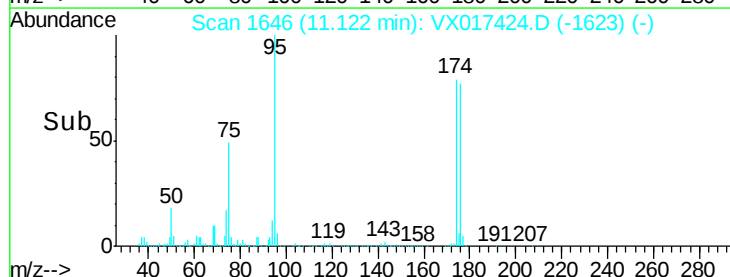
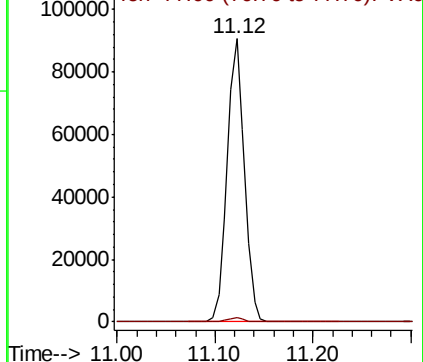
75 100

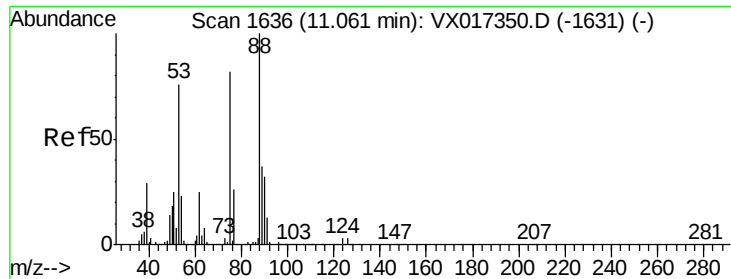
77 1.5 20.3 60.9#



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: 64.358 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017424.D

Acq: 17 Jul 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

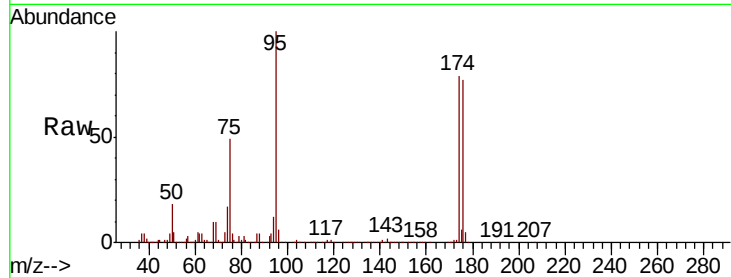
Tot Ion: 75 Resp: 111485

Ion Ratio Lower Upper

75 100

53 0.6 76.5 114.7#

89 0.2 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

