

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019805.D
 Acq On : 10 Dec 2020 03:02
 Operator : JC/MD
 Sample : L4993-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5225-120820

Quant Time: Dec 10 06:45:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	326907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	534722	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	490684	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212559	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	203843	47.44	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.88%
35) Dibromofluoromethane	5.46	113	165470	47.88	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.76%
50) Toluene-d8	8.70	98	649416	49.22	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.44%
62) 4-Bromofluorobenzene	11.12	95	227064	45.22	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.44%

Target Compounds

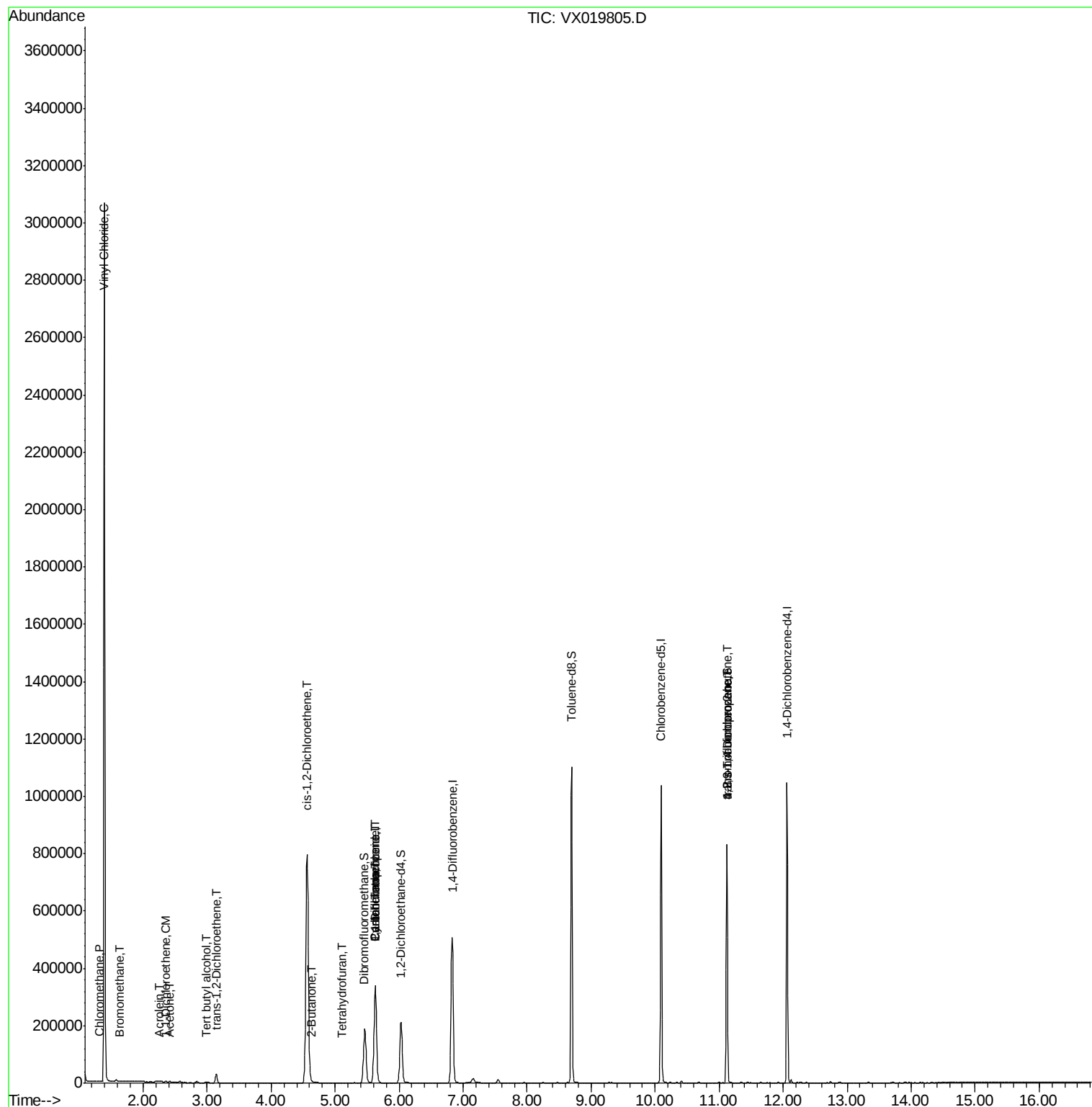
					Qvalue	
3) Chloromethane	1.31	50	909	0.258	ug/l	90
4) Vinyl Chloride	1.39	62	1770225	476.967	ug/l	99
5) Bromomethane	1.63	94	793	0.643	ug/l	91
11) Tert butyl alcohol	3.00	59	2837	0.605	ug/l #	83
12) 1,1-Dichloroethene	2.36	96	1841	0.615	ug/l	87
13) Acrolein	2.26	56	129	0.272	ug/l #	4
16) Acetone	2.42	43	4646	2.877	ug/l	99
20) Methylene Chloride	2.83	84	1867	Below Cal	#	76
21) trans-1,2-Dichloroethene	3.14	96	12397	3.550	ug/l	99
25) 2-Butanone	4.64	43	598	0.241	ug/l #	45
27) cis-1,2-Dichloroethene	4.56	96	532482	130.303	ug/l	89
29) Tetrahydrofuran	5.11	42	592	0.370	ug/l #	50
31) Cyclohexane	5.62	56	6353	1.189	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24515	5.074	ug/l #	49
38) Carbon Tetrachloride	5.63	117	31134	6.580	ug/l #	17
76) 1,2,3-Trichloropropane	11.12	75	110345	23.146	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	110345	66.911	ug/l #	12

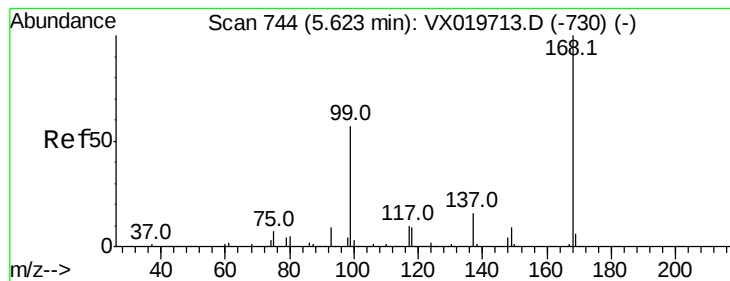
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

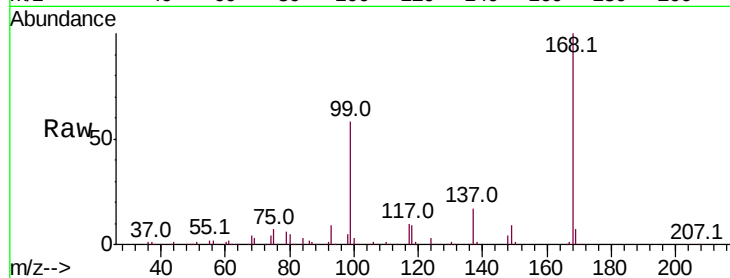
TU032-32-5225-120820

Tot Ion:168 Resp: 326907

Ion Ratio Lower Upper

168 100

99 58.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

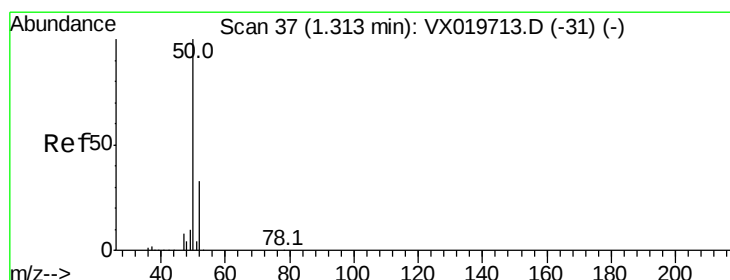
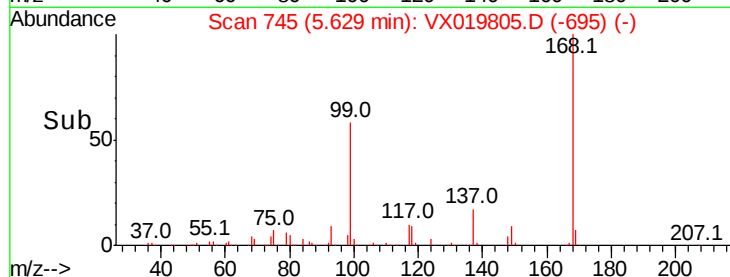
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.258 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019805.D

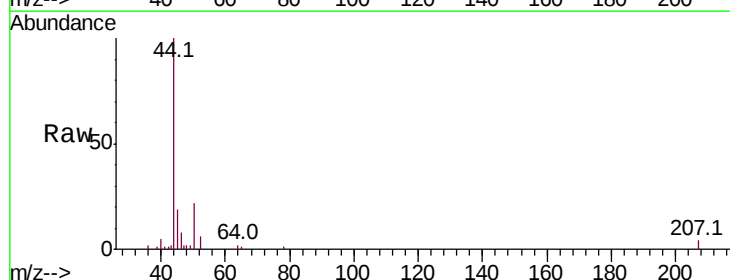
Acq: 10 Dec 2020 03:02

Tgt Ion: 50 Resp: 909

Ion Ratio Lower Upper

50 100

52 27.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1000

800

600

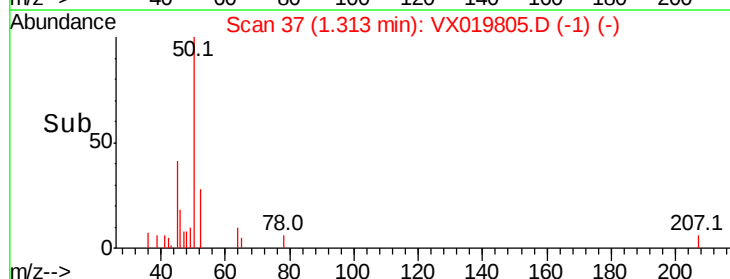
400

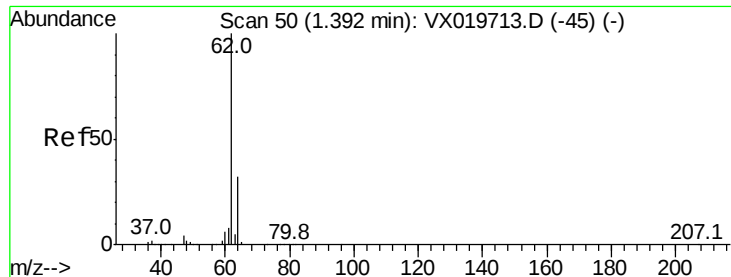
200

0

Time-->

1.25 1.30 1.35





#4

Vinyl Chloride

Concen: 476.967 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

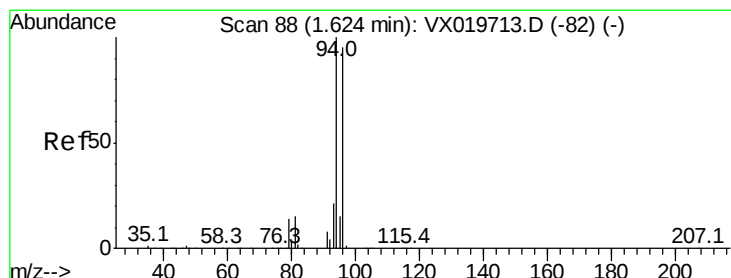
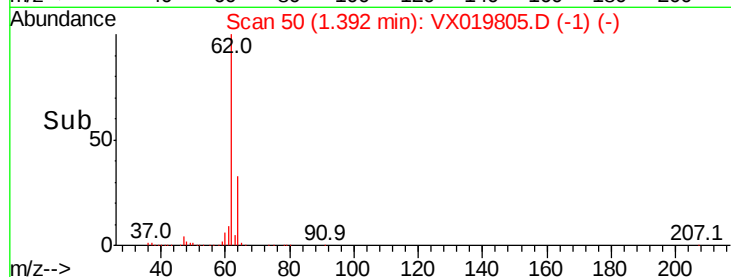
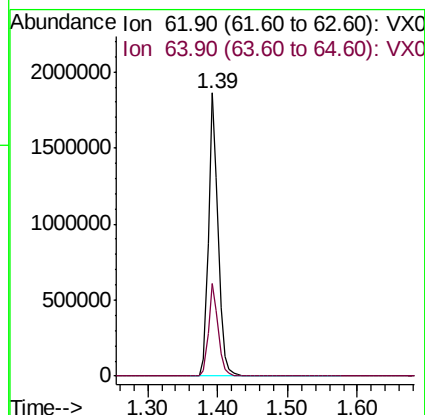
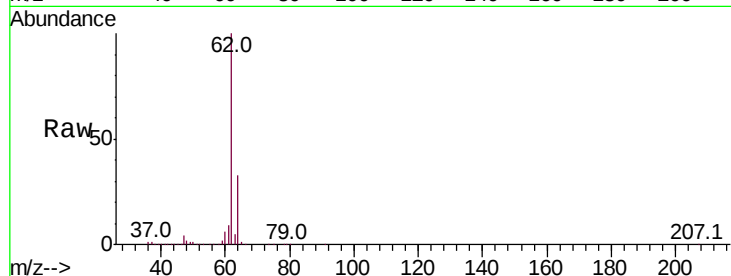
TU032-32-5225-120820

Tot Ion: 62 Resp: 1770225

Ion Ratio Lower Upper

62 100

64 32.7 25.7 38.5



#5

Bromomethane

Concen: 0.643 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019805.D

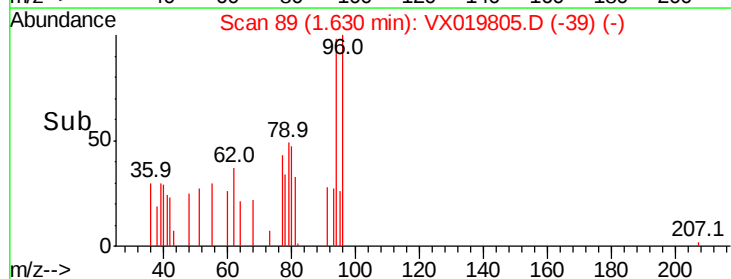
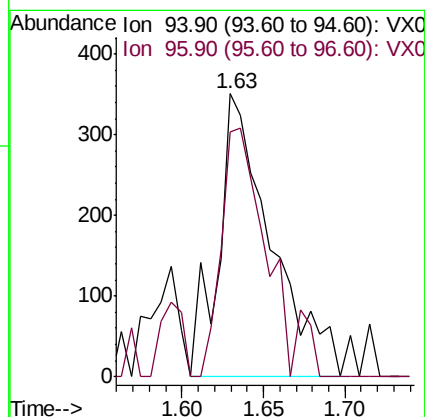
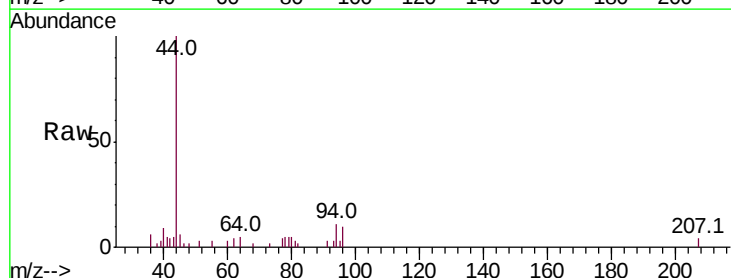
Acq: 10 Dec 2020 03:02

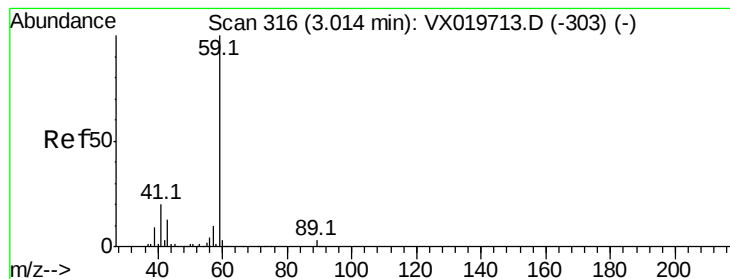
Tgt Ion: 94 Resp: 793

Ion Ratio Lower Upper

94 100

96 86.3 76.4 114.6





#11

Tert butyl alcohol

Concen: 0.605 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

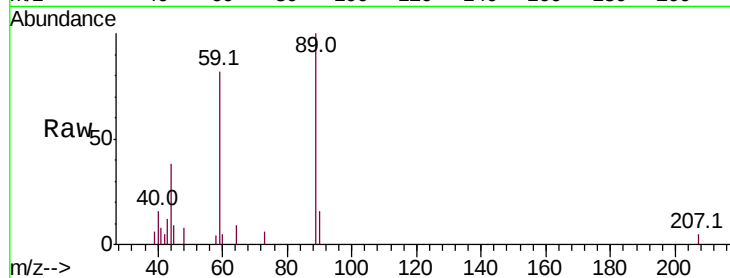
TU032-32-5225-120820

Tot Ion: 59 Resp: 2837

Ion Ratio Lower Upper

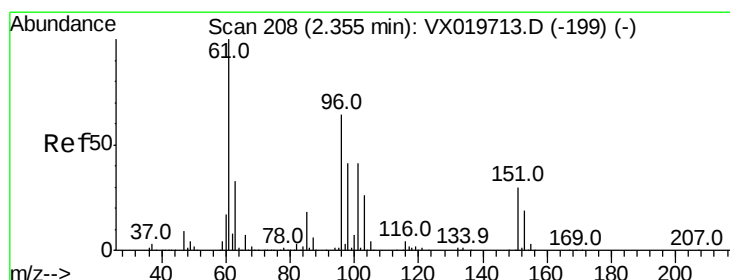
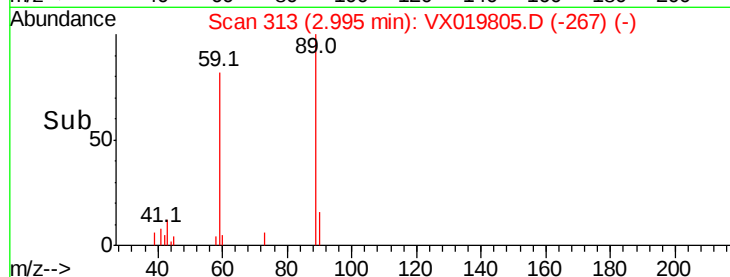
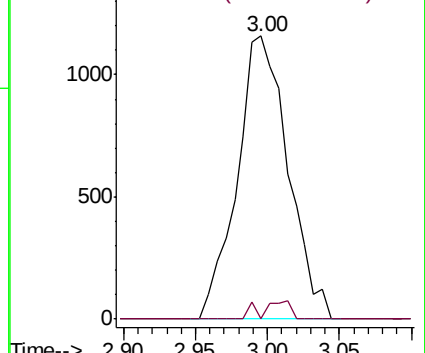
59 100

57 3.5 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#12

1,1-Dichloroethene

Concen: 0.615 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

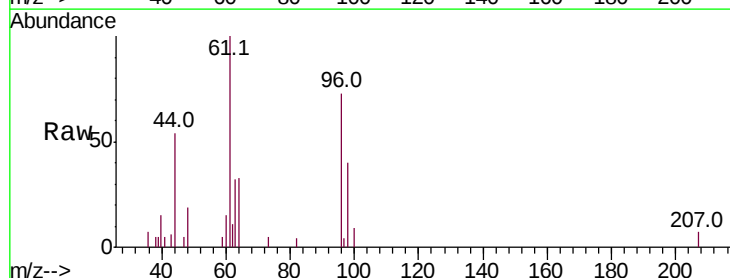
Tgt Ion: 96 Resp: 1841

Ion Ratio Lower Upper

96 100

61 136.9 124.6 187.0

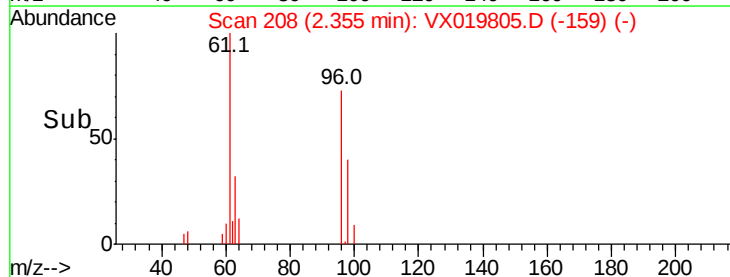
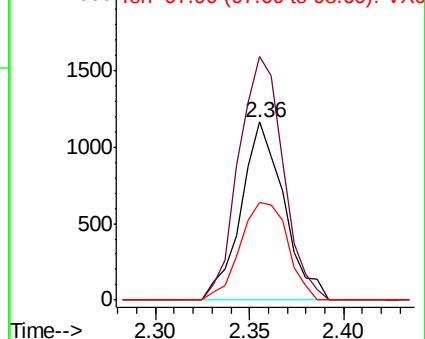
98 55.2 50.6 76.0

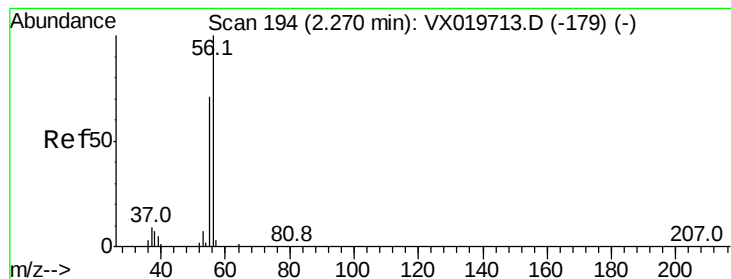


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 0.272 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

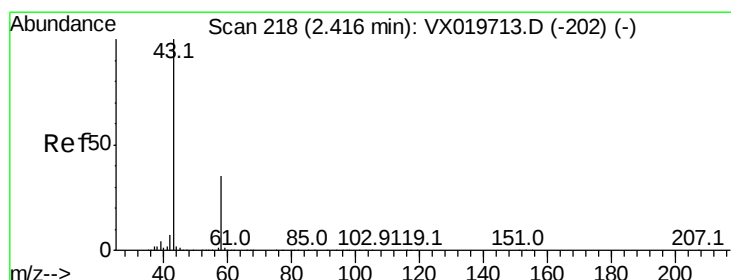
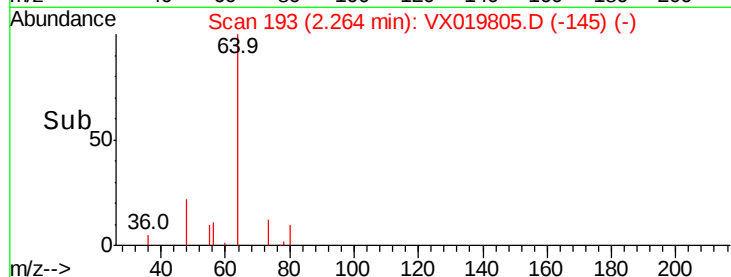
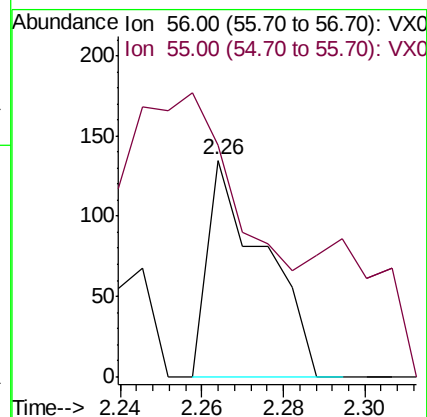
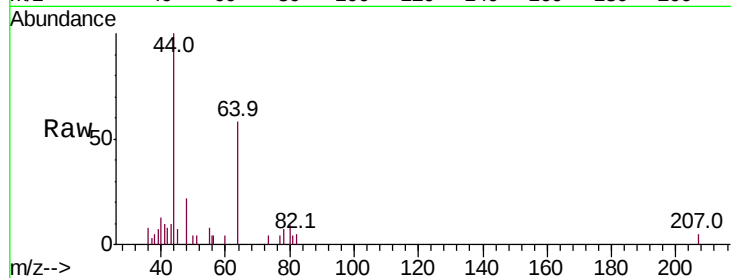
TU032-32-5225-120820

Tot Ion: 56 Resp: 129

Ion Ratio Lower Upper

56 100

55 149.6 56.4 84.6#



#16

Acetone

Concen: 2.877 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019805.D

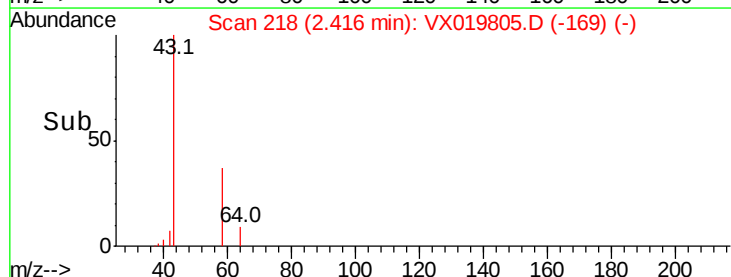
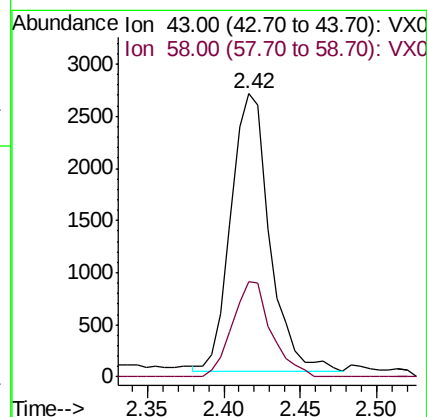
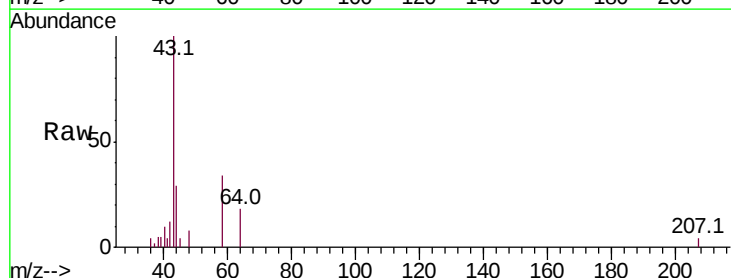
Acq: 10 Dec 2020 03:02

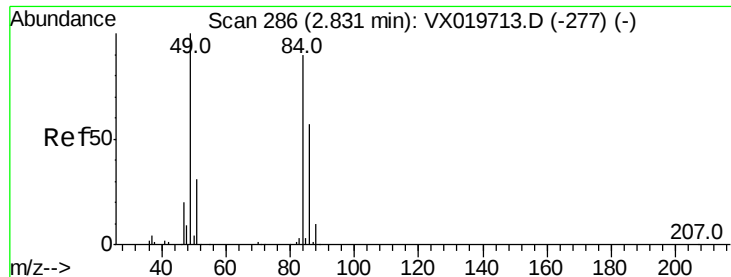
Tgt Ion: 43 Resp: 4646

Ion Ratio Lower Upper

43 100

58 34.4 27.8 41.8

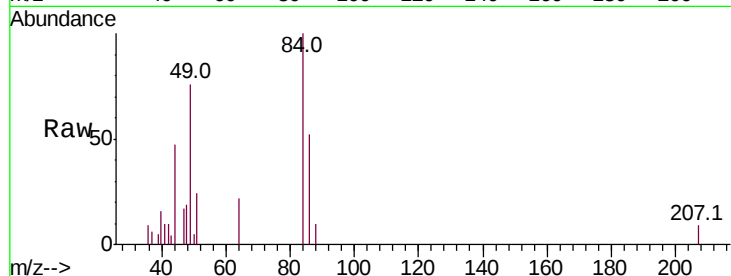




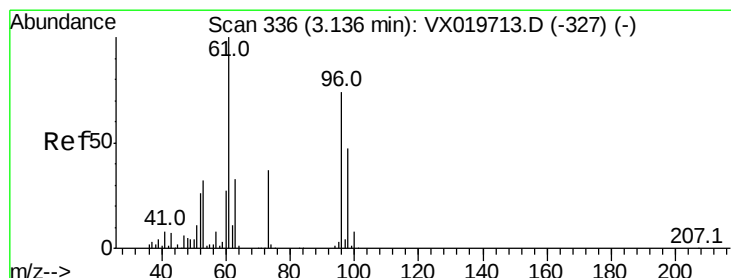
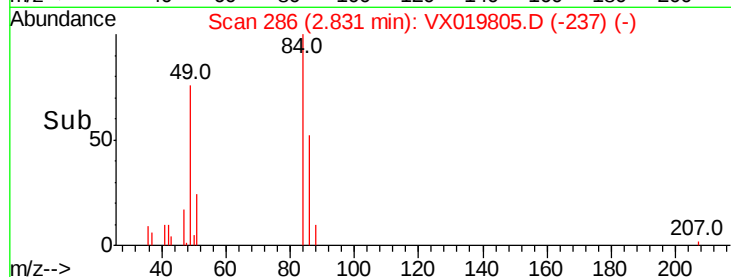
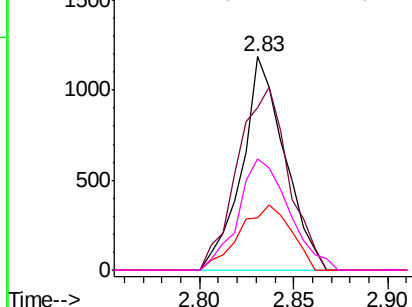
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019805.D
Acq: 10 Dec 2020 03:02

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5225-120820

Tot Ion: 84 Resp: 1867
Ion Ratio Lower Upper
84 100
49 76.2 88.6 132.8#
51 24.4 27.0 40.6#
86 52.3 50.3 75.5

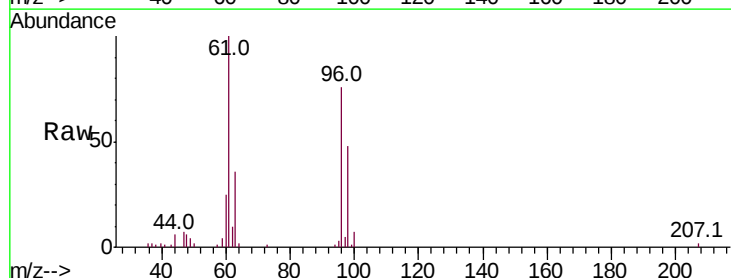


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

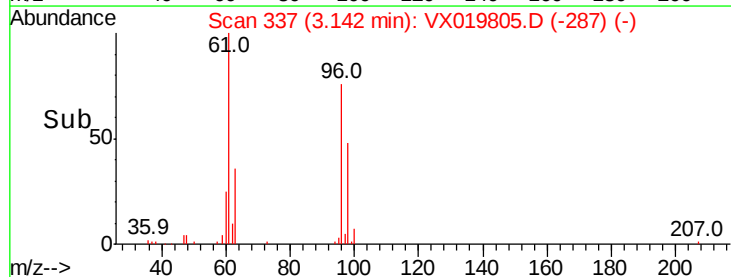
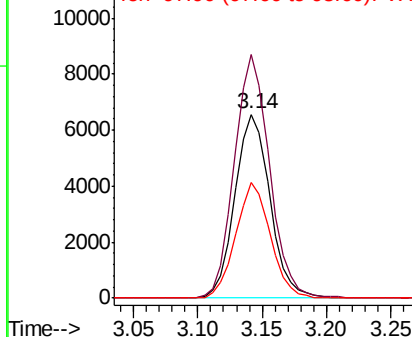


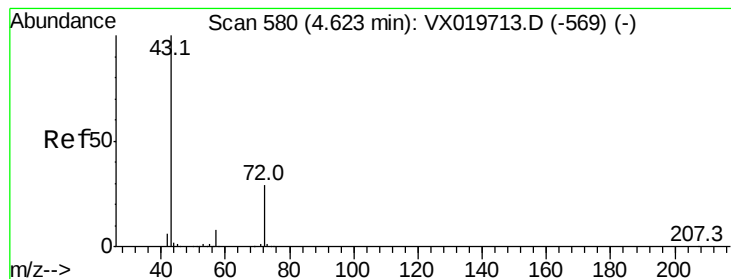
#21
trans-1,2-Dichloroethene
Concen: 3.550 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX019805.D
Acq: 10 Dec 2020 03:02

Tgt Ion: 96 Resp: 12397
Ion Ratio Lower Upper
96 100
61 132.4 107.7 161.5
98 63.0 50.4 75.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#25

2-Butanone

Concen: 0.241 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

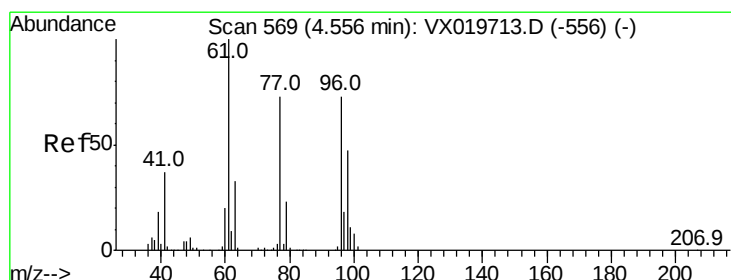
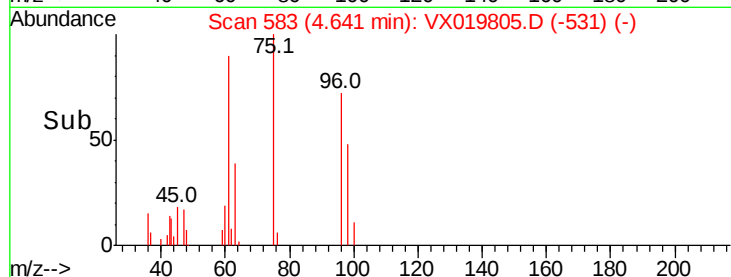
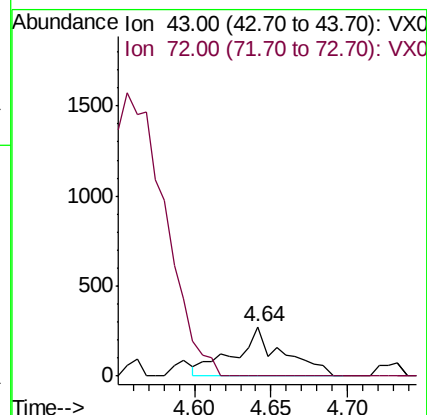
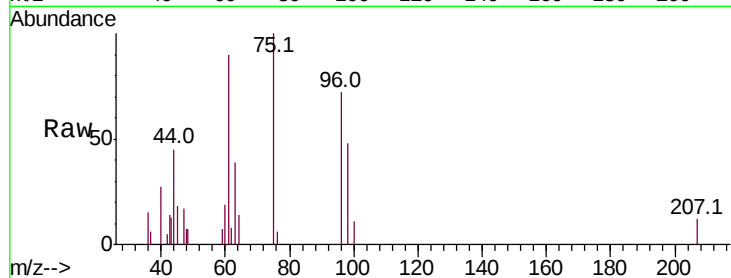
TU032-32-5225-120820

Tot Ion: 43 Resp: 598

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#27

cis-1,2-Dichloroethene

Concen: 130.303 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

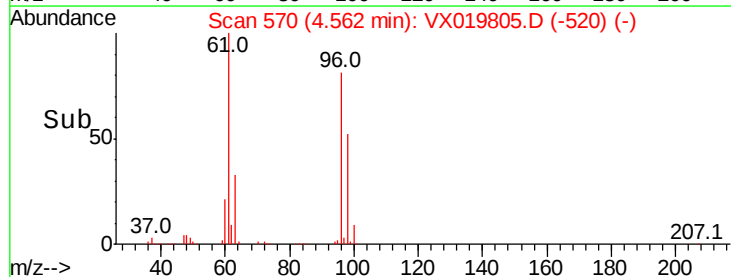
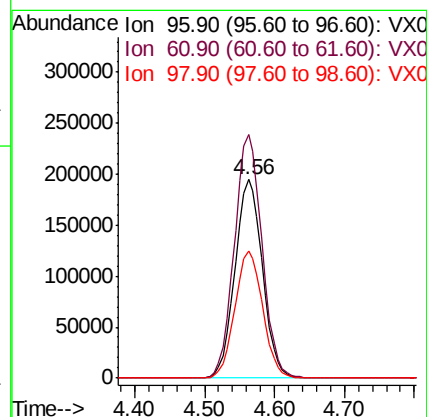
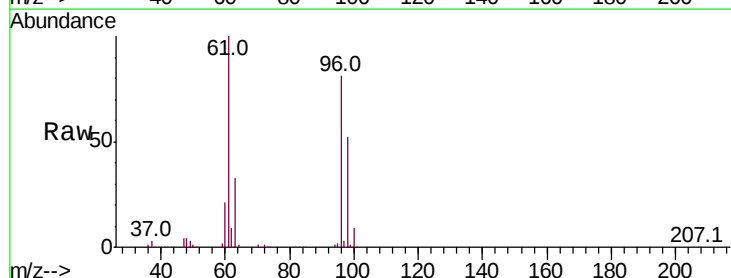
Tgt Ion: 96 Resp: 532482

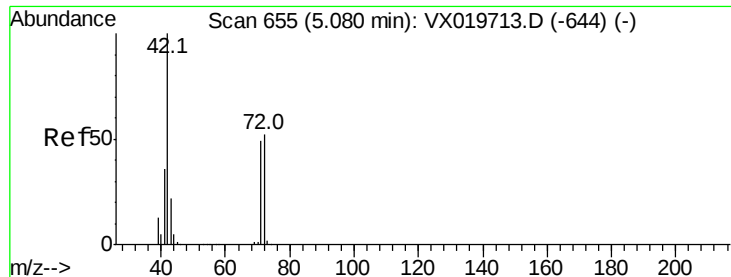
Ion Ratio Lower Upper

96 100

61 123.2 0.0 285.6

98 64.4 0.0 129.6

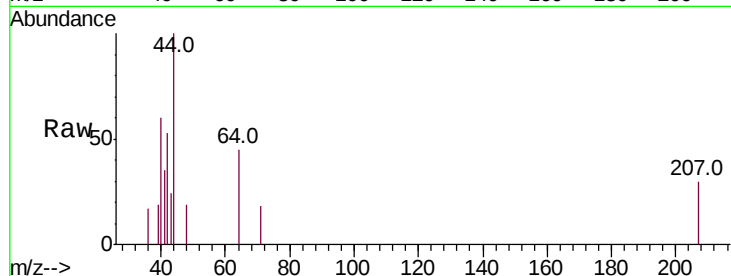




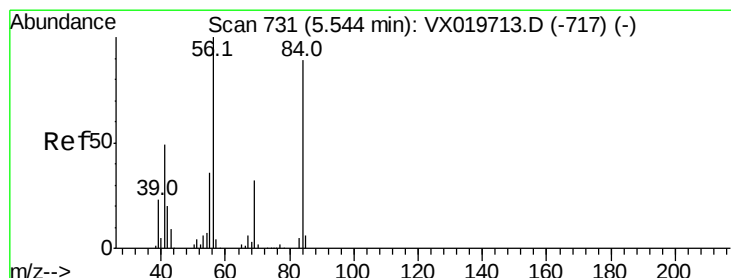
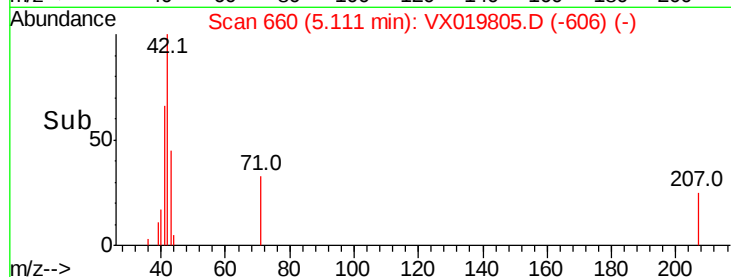
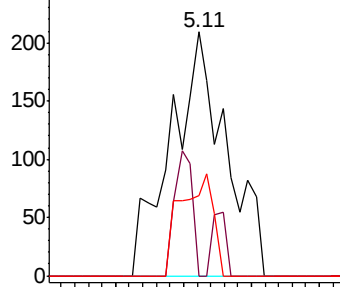
#29
Tetrahydrofuran
Concen: 0.370 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.03 min
Lab File: VX019805.D
Acq: 10 Dec 2020 03:02

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5225-120820

Tot Ion: 42 Resp: 592
Ion Ratio Lower Upper
42 100
72 6.6 41.7 62.5#
71 25.0 38.4 57.6#

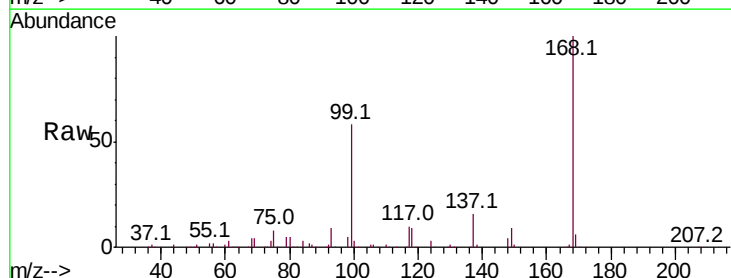


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

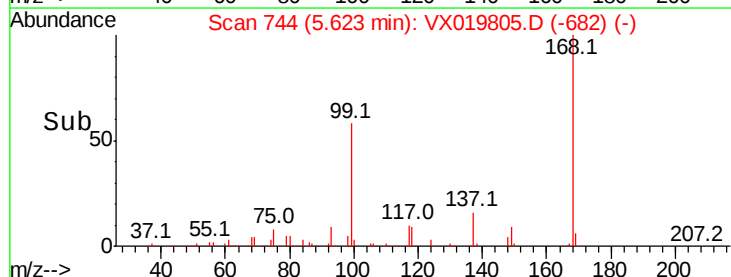
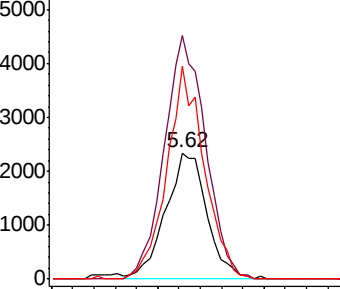


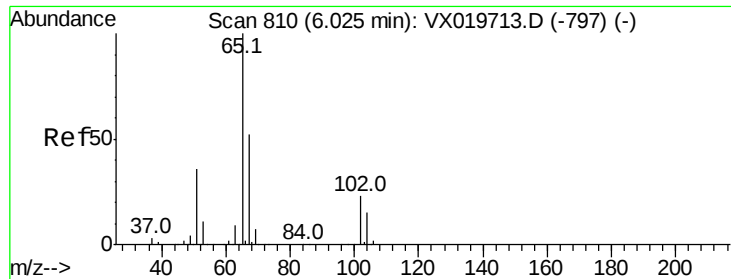
#31
Cyclohexane
Concen: 1.189 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019805.D
Acq: 10 Dec 2020 03:02

Tgt Ion: 56 Resp: 6353
Ion Ratio Lower Upper
56 100
69 193.3 25.3 37.9#
84 169.0 71.4 107.0#



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

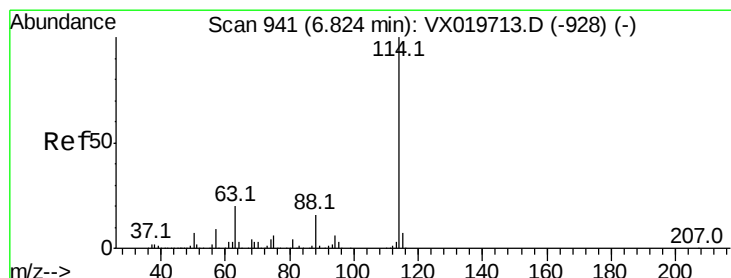
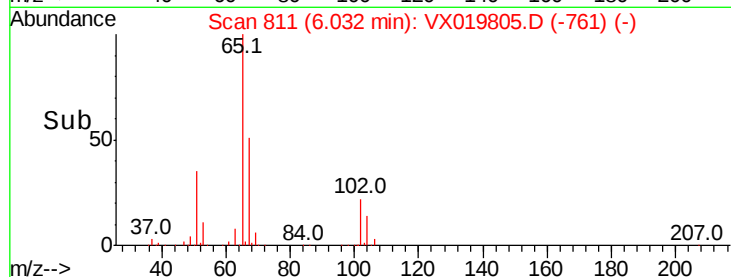
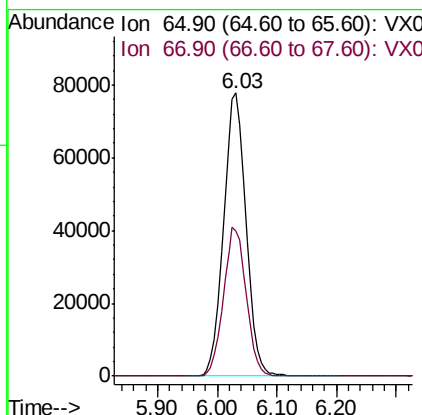
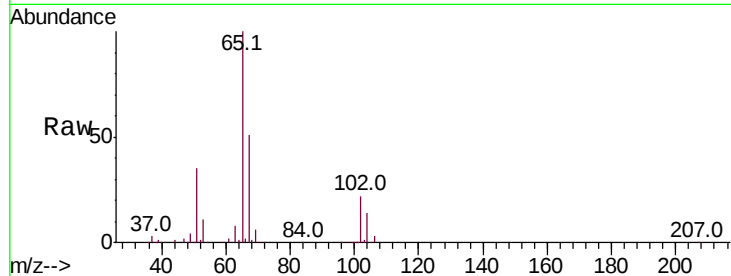




#33
 1,2-Dichloroethane-d4
 Concen: 47.444 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019805.D
 Acq: 10 Dec 2020 03:02

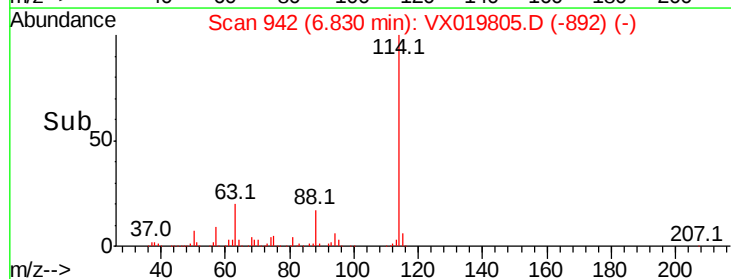
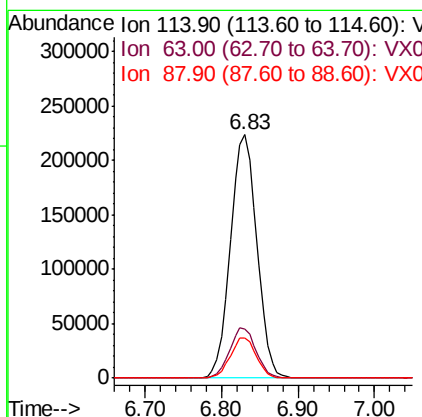
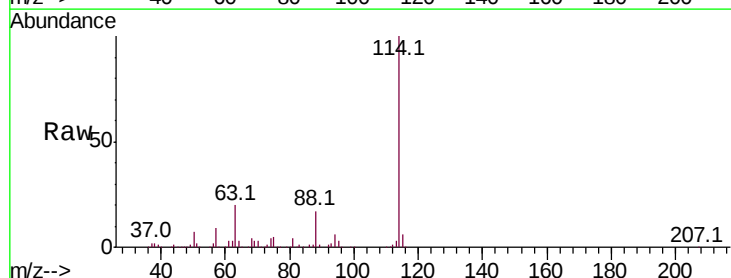
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5225-120820

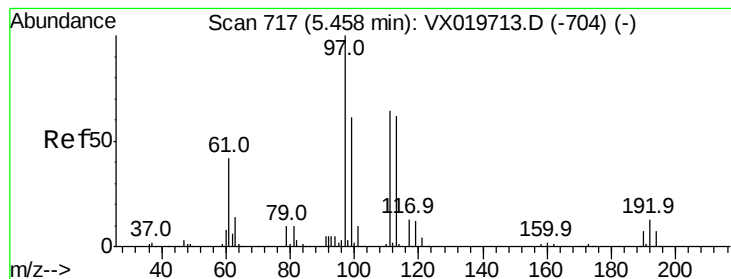
Tot Ion: 65 Resp: 203843
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019805.D
 Acq: 10 Dec 2020 03:02

Tgt Ion: 114 Resp: 534722
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.8
 88 16.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.881 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5225-120820

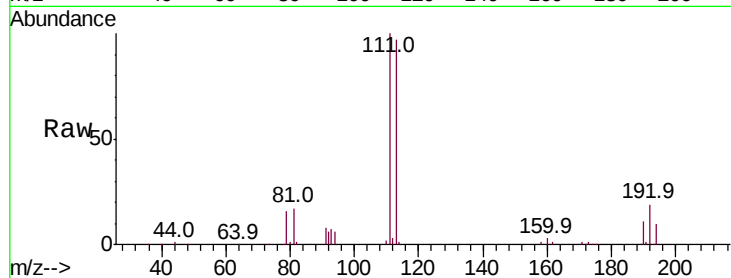
Tot Ion:113 Resp: 165470

Ion Ratio Lower Upper

113 100

111 103.5 81.9 122.9

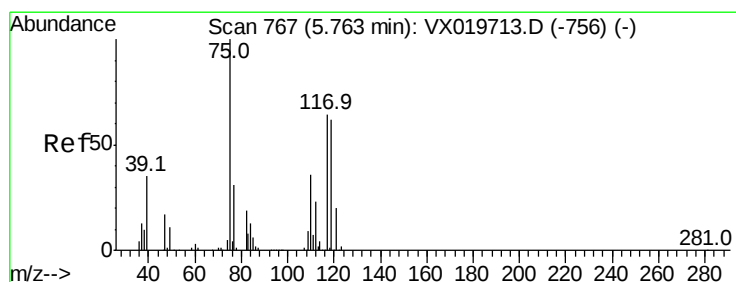
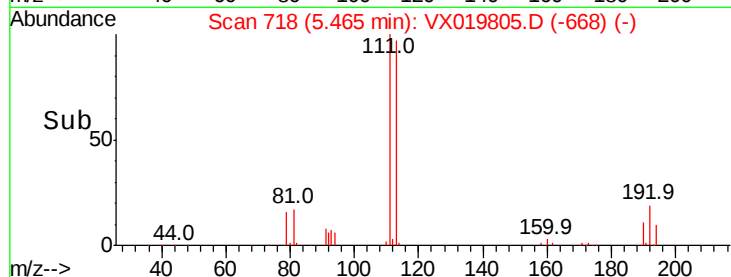
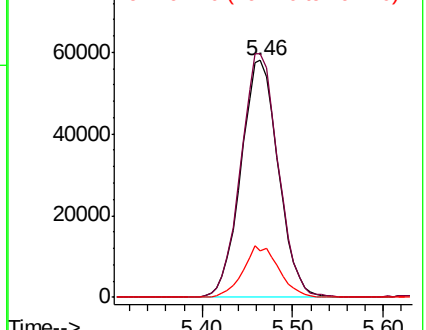
192 20.9 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.074 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

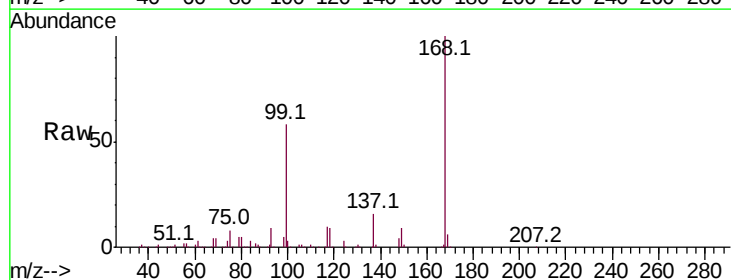
Tgt Ion: 75 Resp: 24515

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.4#

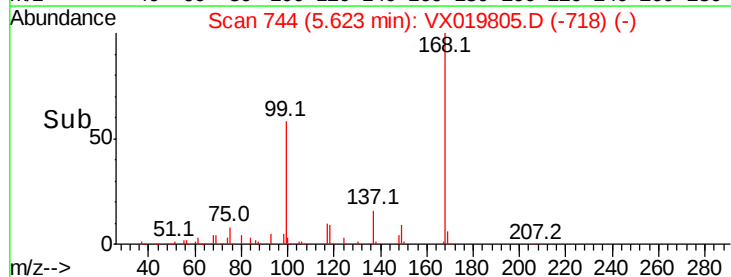
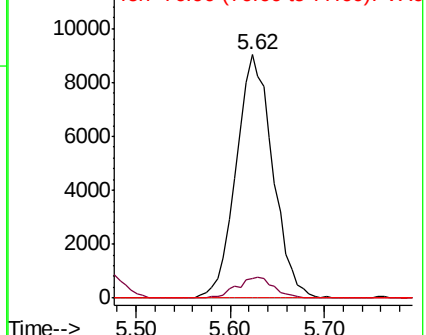
77 0.0 25.3 37.9#

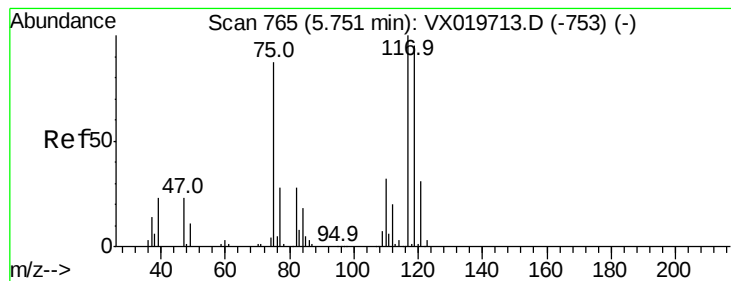


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.580 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5225-120820

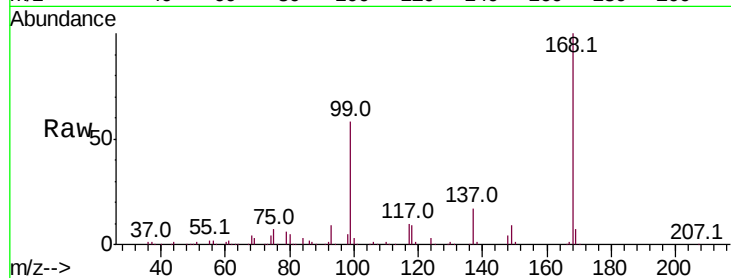
Tot Ion:117 Resp: 31134

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.2#

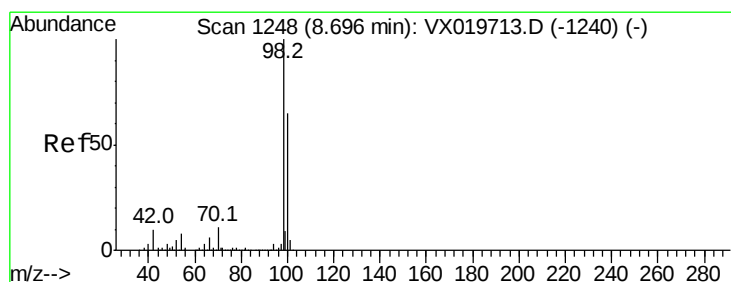
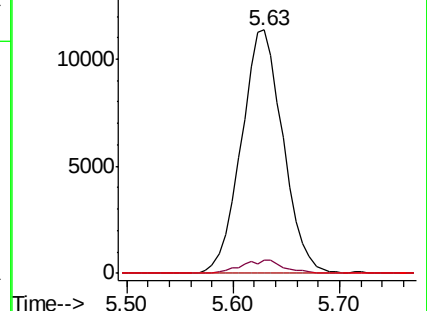
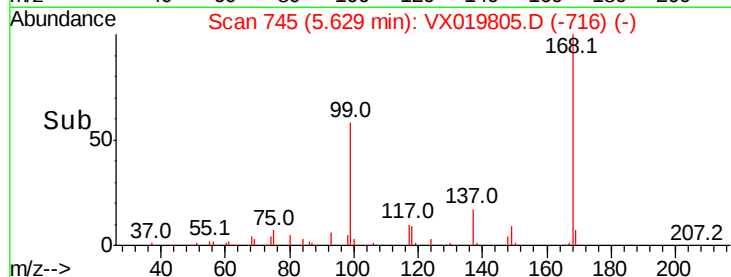
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.223 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019805.D

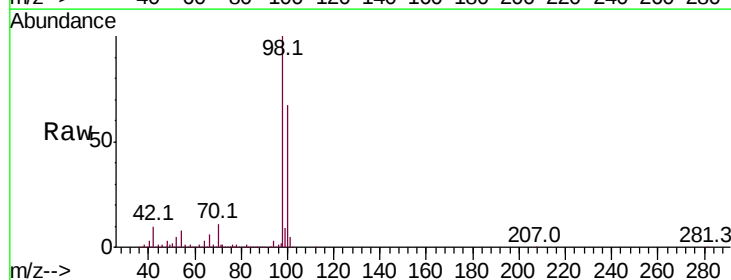
Acq: 10 Dec 2020 03:02

Tgt Ion: 98 Resp: 649416

Ion Ratio Lower Upper

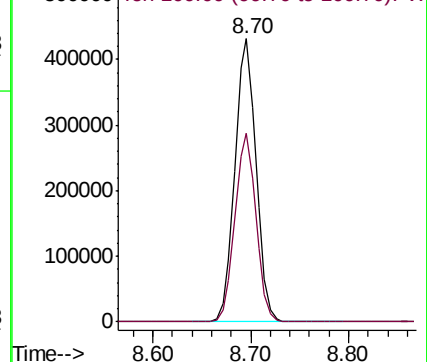
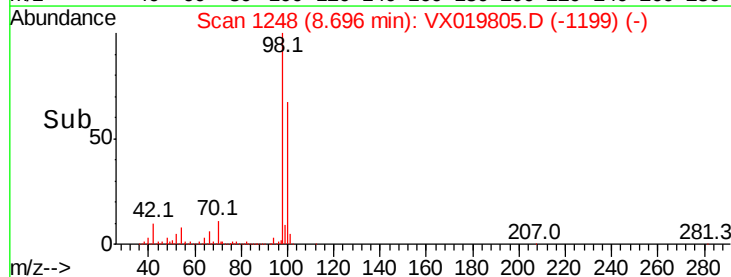
98 100

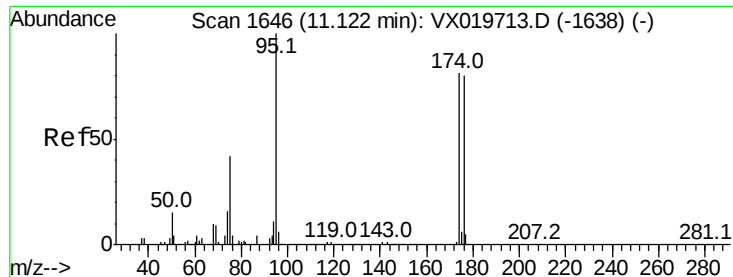
100 66.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.217 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5225-120820

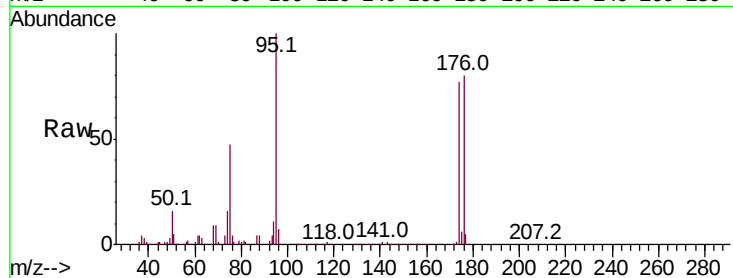
Tot Ion: 95 Resp: 227064

Ion Ratio Lower Upper

95 100

174 76.7 0.0 154.6

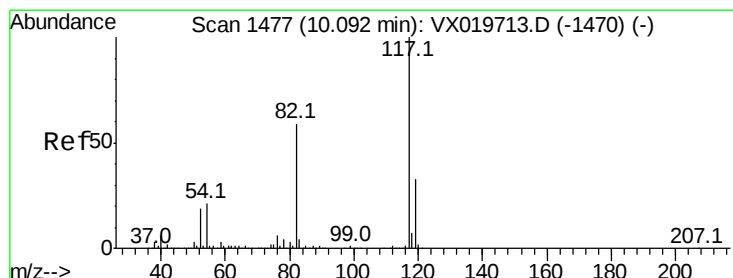
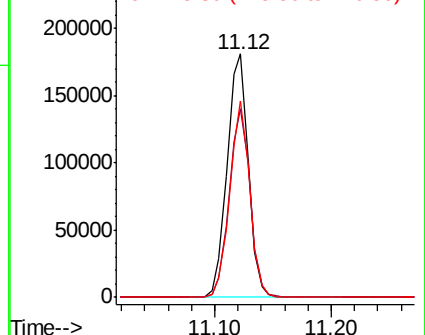
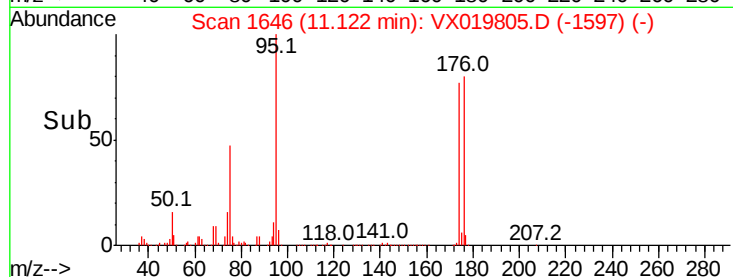
176 76.5 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

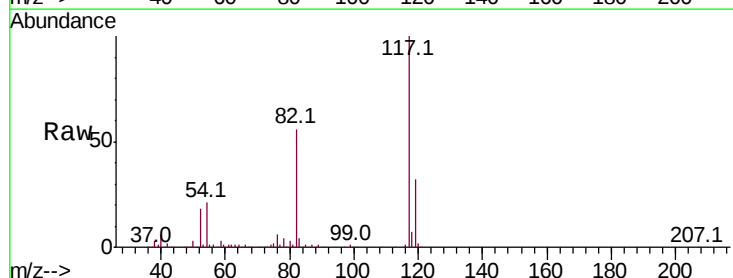
Tgt Ion: 117 Resp: 490684

Ion Ratio Lower Upper

117 100

82 56.4 47.4 71.2

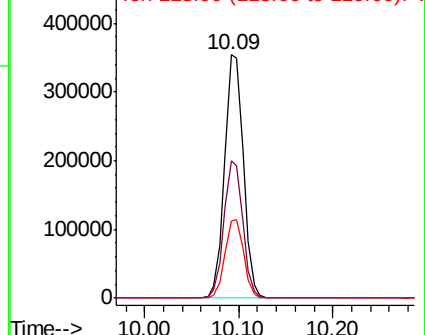
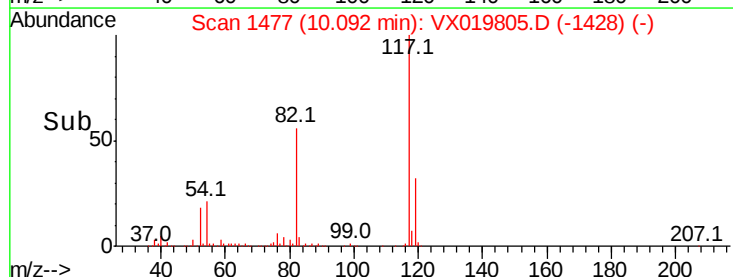
119 31.8 26.6 39.8

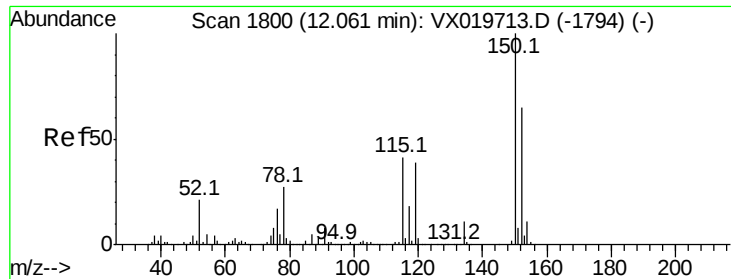


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019805.D

Acq: 10 Dec 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5225-120820

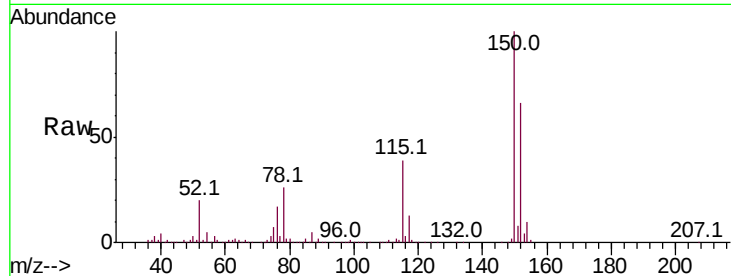
Tot Ion:152 Resp: 212559

Ion Ratio Lower Upper

152 100

115 59.1 41.1 123.3

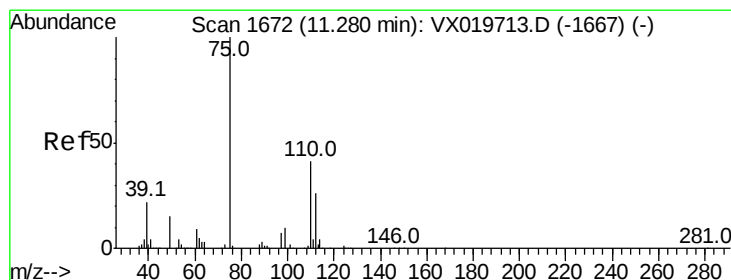
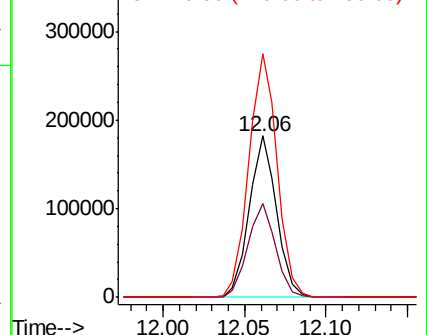
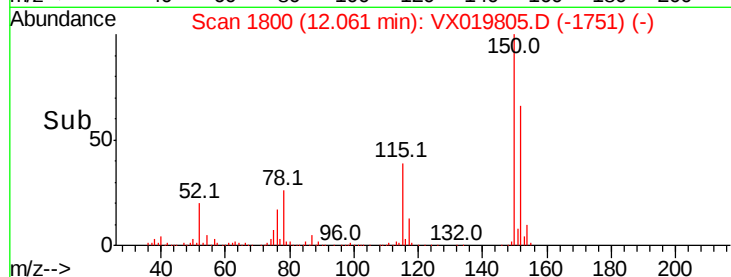
150 156.3 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.146 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019805.D

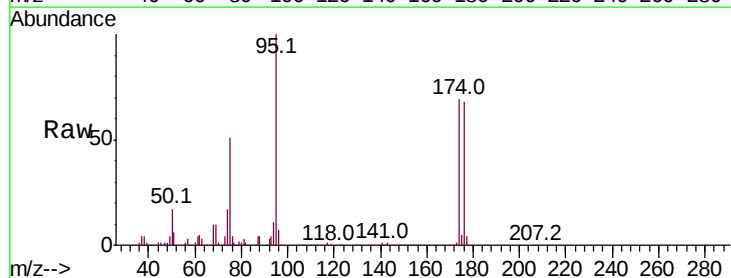
Acq: 10 Dec 2020 03:02

Tgt Ion: 75 Resp: 110345

Ion Ratio Lower Upper

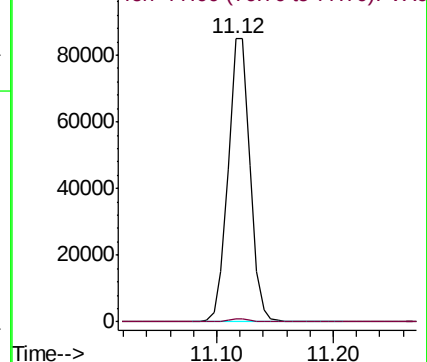
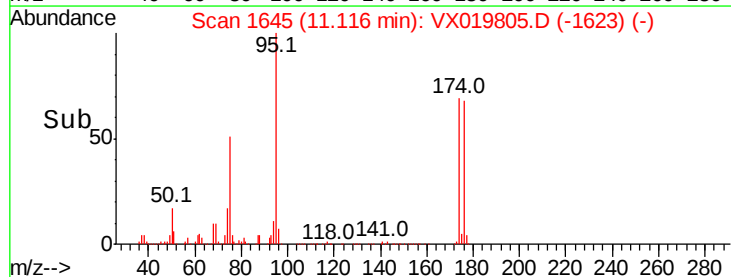
75 100

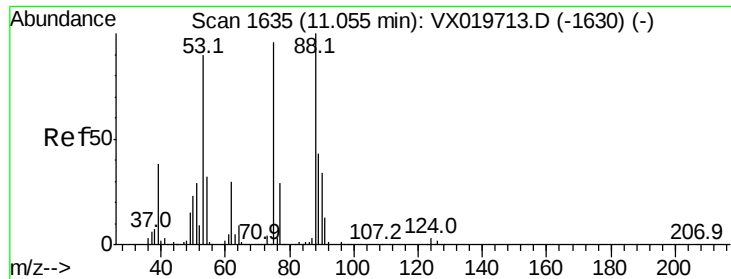
77 1.3 19.1 57.5#



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: 66.911 ug/l
RT: 11.12 min Scan# 1645
Delta R.T. 0.06 min
Lab File: VX019805.D
Acq: 10 Dec 2020 03:02

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5225-120820

Tot Ion: 75 Resp: 110345
Ion Ratio Lower Upper
75 100
53 0.0 74.5 111.7#
89 0.0 37.9 56.9#

