

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121420\
 Data File : VX019984.D
 Acq On : 14 Dec 2020 14:19
 Operator : JC/MD
 Sample : L5052-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5780-121020

Quant Time: Dec 15 00:22:59 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	305227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	503218	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	456050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	192920	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	193111	48.14	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.28%	
35) Dibromofluoromethane		5.46	113	157623	48.47	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.94%	
50) Toluene-d8		8.70	98	609039	49.05	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.10%	
62) 4-Bromofluorobenzene		11.12	95	209351	44.30	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.60%	

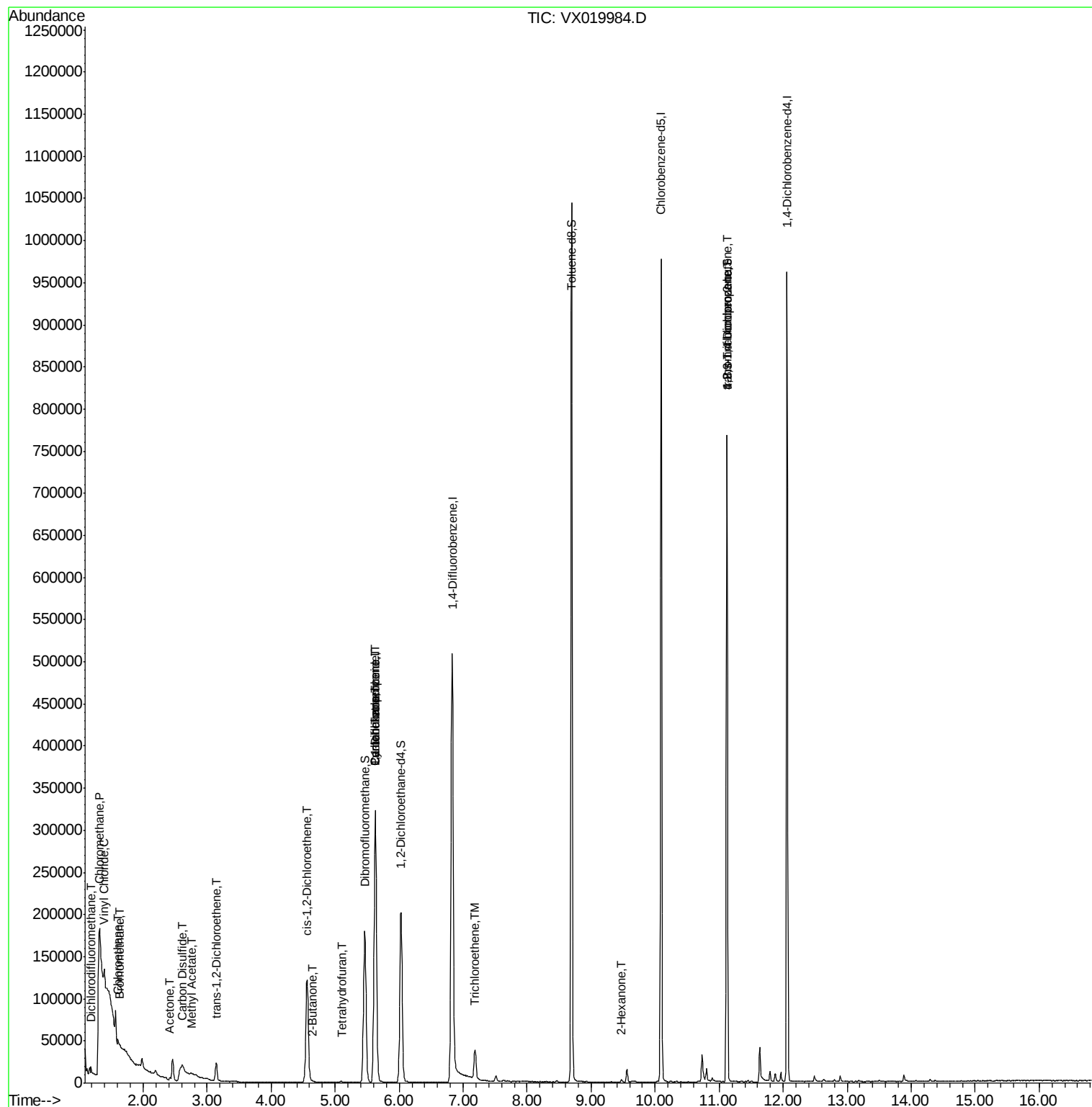
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	3444	1.232	ug/l	98
3) Chloromethane	1.32	50	13619	4.144	ug/l #	46
4) Vinyl Chloride	1.39	62	9715	2.804	ug/l #	15
5) Bromomethane	1.64	94	330	0.287	ug/l #	76
6) Chloroethane	1.61	64	149712	71.920	ug/l #	52
11) Tert butyl alcohol	3.01	59	769	Below Cal	#	73
16) Acetone	2.42	43	2938	1.948	ug/l	99
17) Carbon Disulfide	2.61	76	74067	9.230	ug/l	95
18) Methyl Acetate	2.75	43	1040	0.282	ug/l #	89
20) Methylene Chloride	2.84	84	437	Below Cal	#	85
21) trans-1,2-Dichloroethene	3.14	96	8700	2.668	ug/l	99
25) 2-Butanone	4.64	43	1862	0.804	ug/l	98
27) cis-1,2-Dichloroethene	4.56	96	80685	21.147	ug/l	90
29) Tetrahydrofuran	5.10	42	698	0.468	ug/l #	60
31) Cyclohexane	5.63	56	5807	1.164	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23310	5.126	ug/l #	48
38) Carbon Tetrachloride	5.62	117	29664	6.662	ug/l #	17
44) Trichloroethene	7.18	130	12011	3.296	ug/l	99
59) 2-Hexanone	9.48	43	1836	0.520	ug/l	83
76) 1,2,3-Trichloropropane	11.12	75	100736	23.282	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	100736	67.303	ug/l #	12

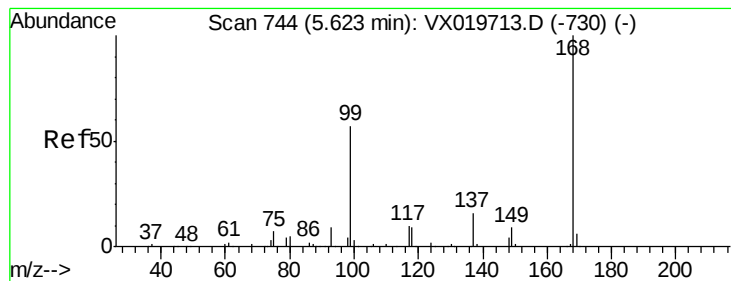
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121420\
Data File : VX019984.D
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ClientSampleId :
TU032-32-5780-121020

Quant Time: Dec 15 00:22:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
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: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

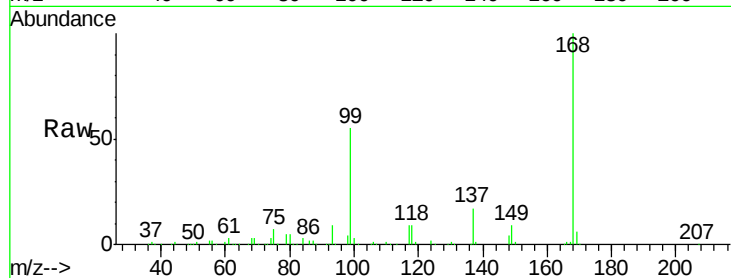
TU032-32-5780-121020

Tgt Ion:168 Resp: 305227

Ion Ratio Lower Upper

168 100

99 55.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

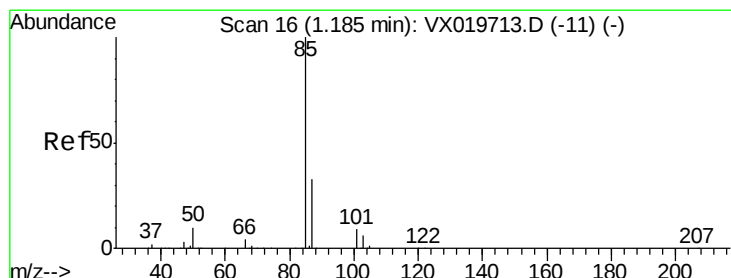
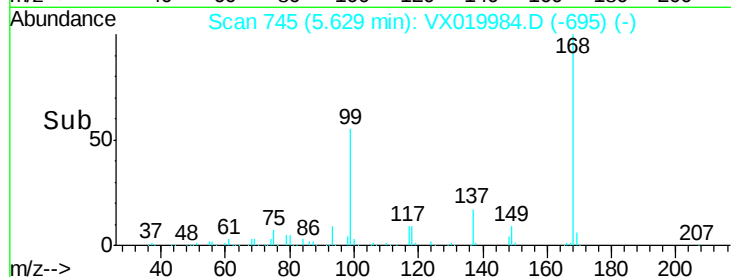
5.63

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.232 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019984.D

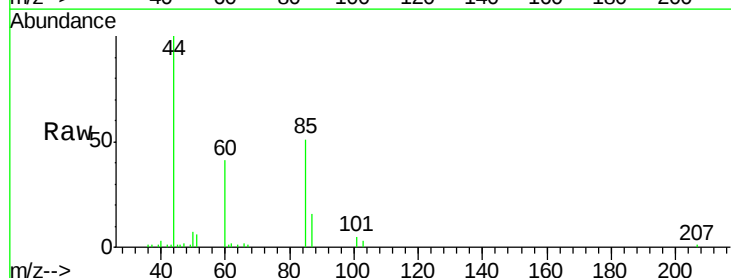
Acq: 14 Dec 2020 14:19

Tgt Ion: 85 Resp: 3444

Ion Ratio Lower Upper

85 100

87 31.7 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

4000

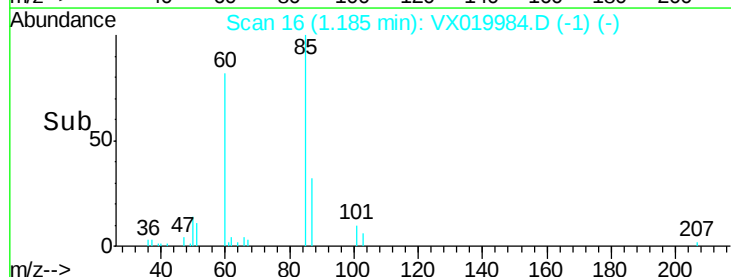
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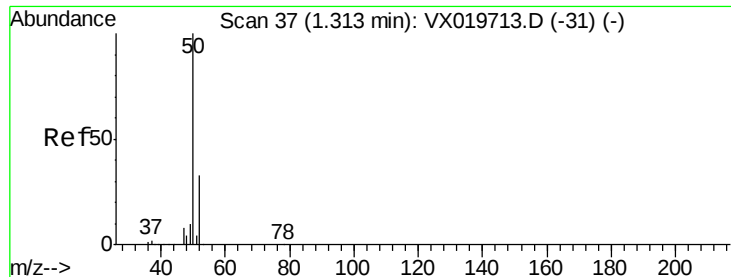
2000

1000

0

Time-->





#3

Chloromethane

Concen: 4.144 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

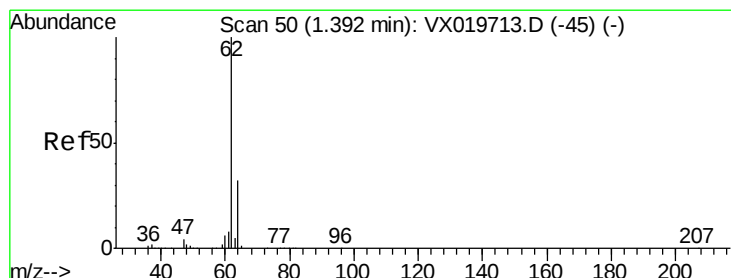
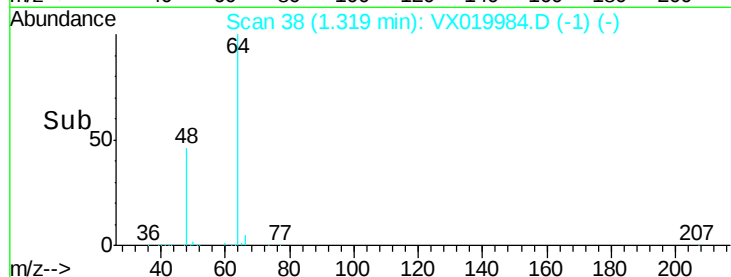
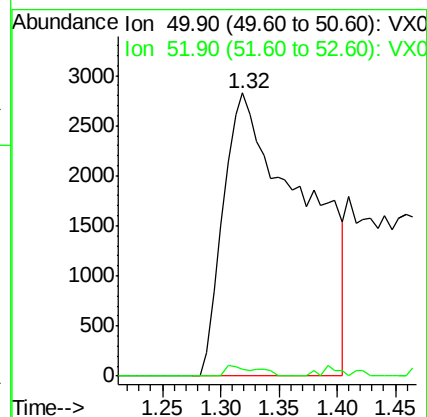
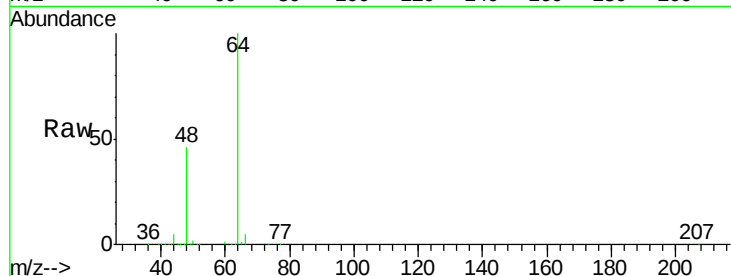
TU032-32-5780-121020

Tgt Ion: 50 Resp: 13619

Ion Ratio Lower Upper

50 100

52 2.5 26.4 39.6#



#4

Vinyl Chloride

Concen: 2.804 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019984.D

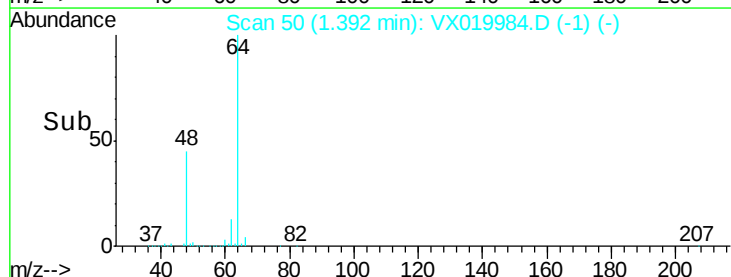
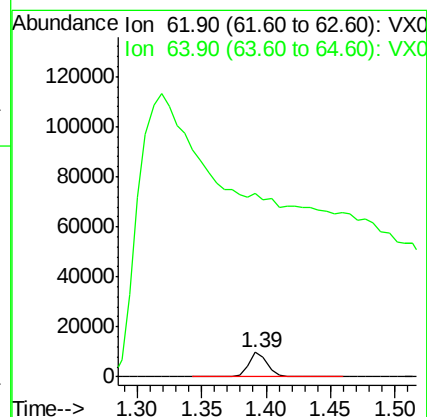
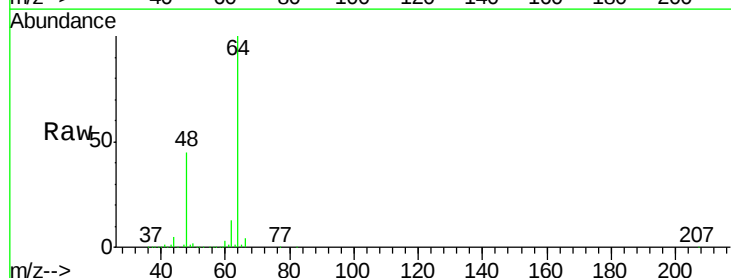
Acq: 14 Dec 2020 14:19

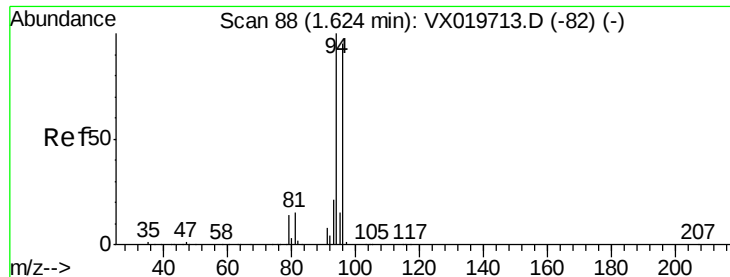
Tgt Ion: 62 Resp: 9715

Ion Ratio Lower Upper

62 100

64 79.6 25.7 38.5#





#5

Bromomethane

Concen: 0.287 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

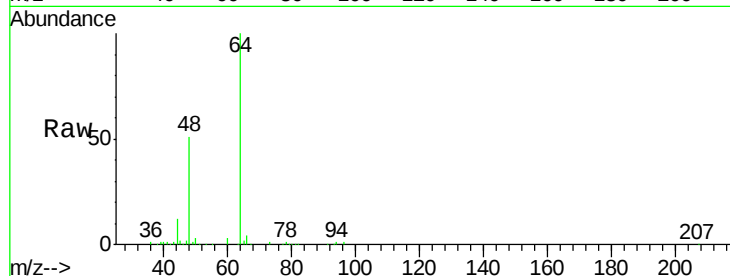
TU032-32-5780-121020

Tgt Ion: 94 Resp: 330

Ion Ratio Lower Upper

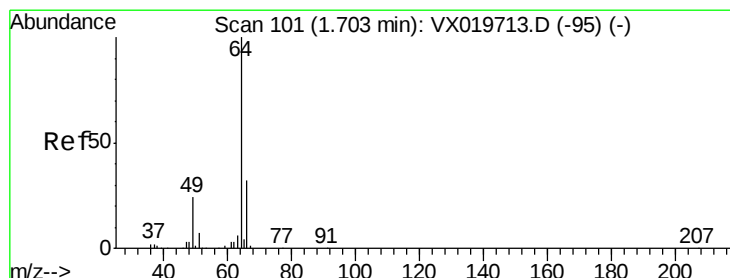
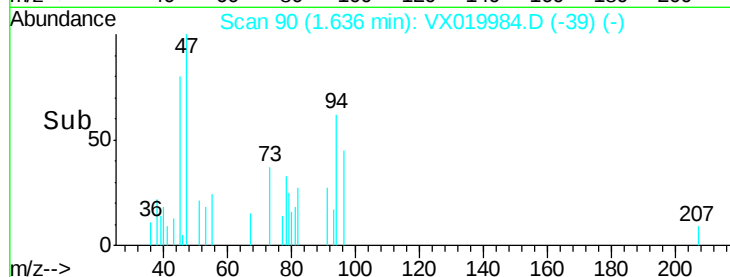
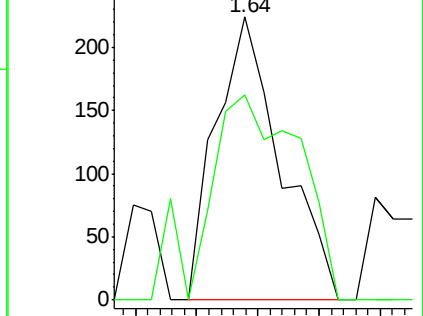
94 100

96 72.3 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 71.920 ug/l

RT: 1.61 min Scan# 85

Delta R.T. -0.10 min

Lab File: VX019984.D

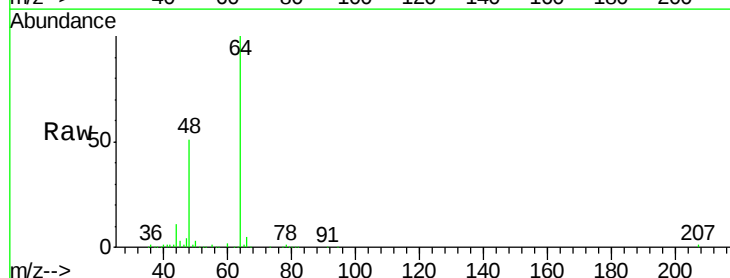
Acq: 14 Dec 2020 14:19

Tgt Ion: 64 Resp: 149712

Ion Ratio Lower Upper

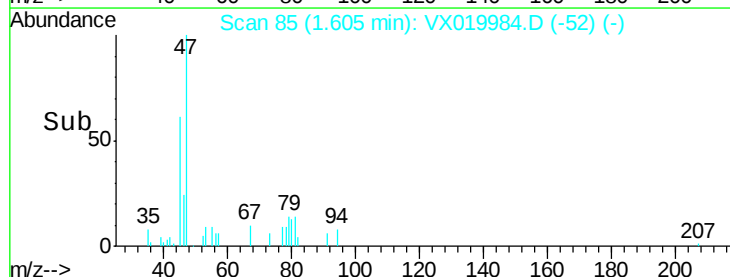
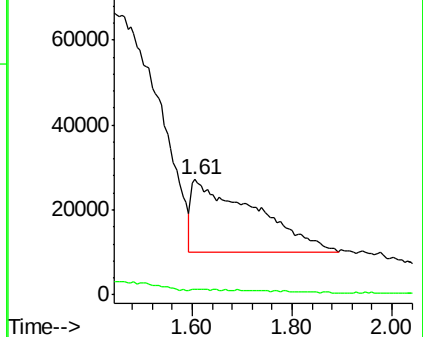
64 100

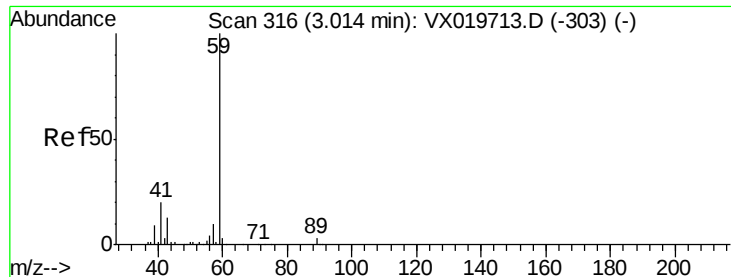
66 4.9 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



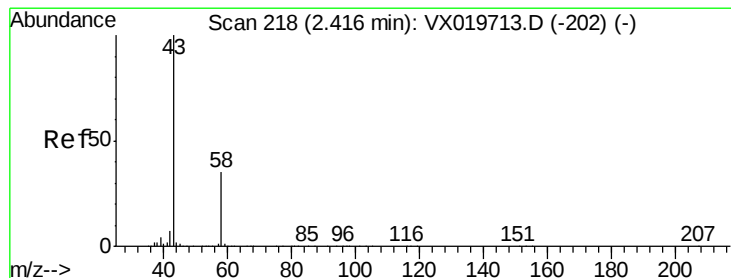
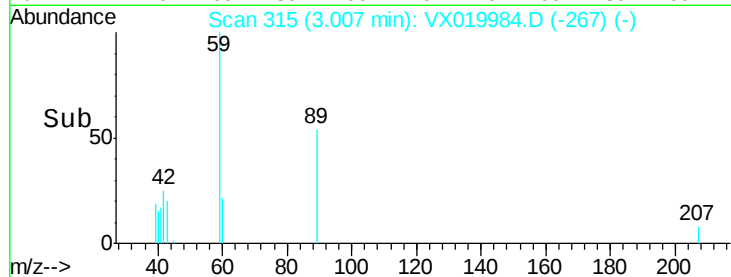
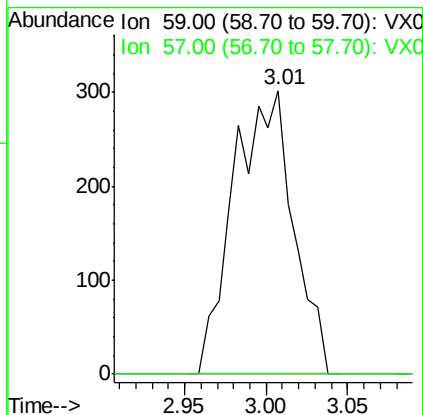
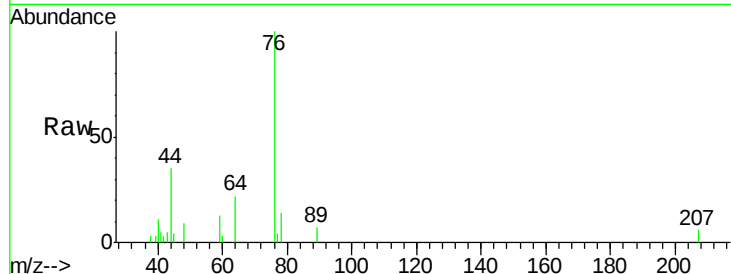


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX019984.D
 Acq: 14 Dec 2020 14:19

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5780-121020

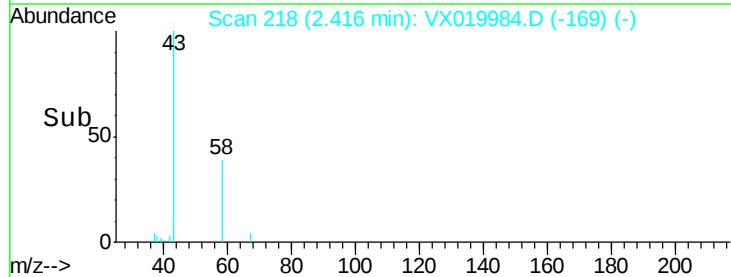
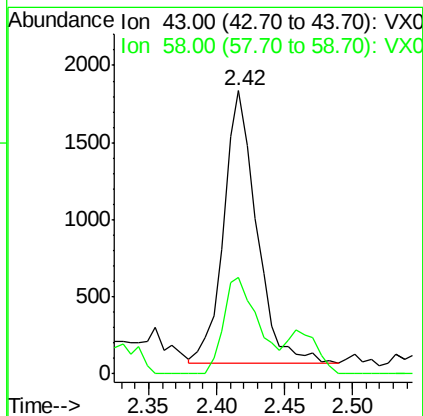
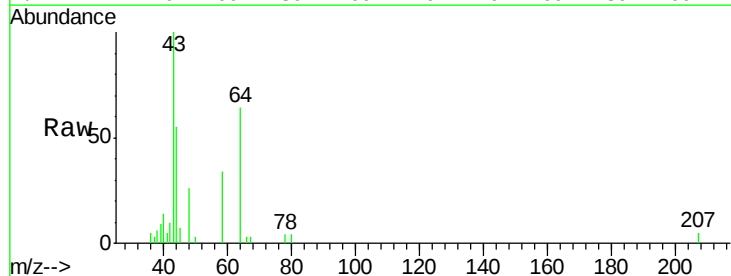
Tgt Ion: 59 Resp: 769
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

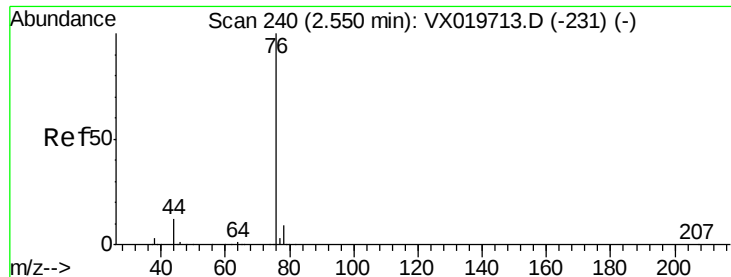


#16

Acetone
 Concen: 1.948 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. -0.00 min
 Lab File: VX019984.D
 Acq: 14 Dec 2020 14:19

Tgt Ion: 43 Resp: 2938
 Ion Ratio Lower Upper
 43 100
 58 35.3 27.8 41.8





#17

Carbon Disulfide

Concen: 9.230 ug/l

RT: 2.61 min Scan# 250

Delta R.T. 0.06 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

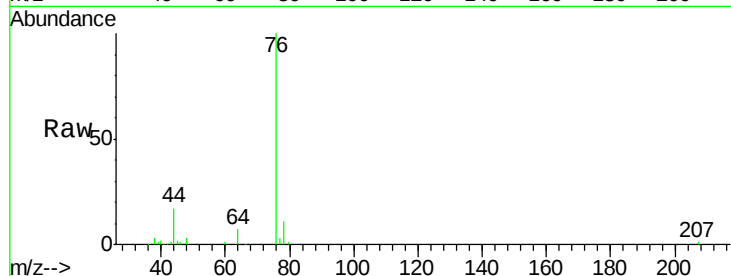
TU032-32-5780-121020

Tgt Ion: 76 Resp: 74067

Ion Ratio Lower Upper

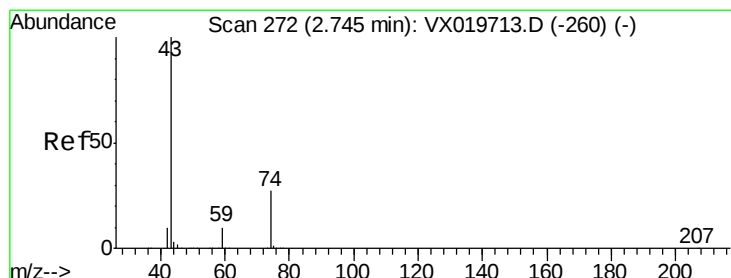
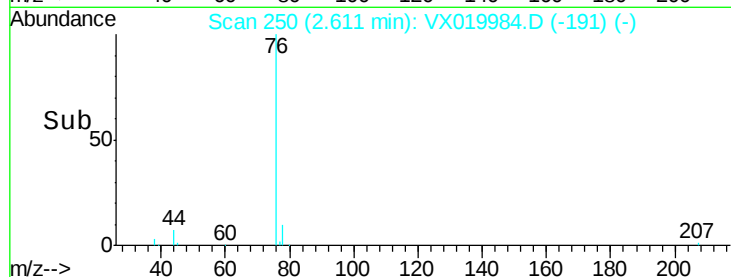
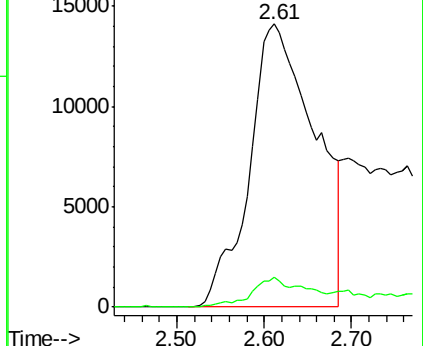
76 100

78 10.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.282 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019984.D

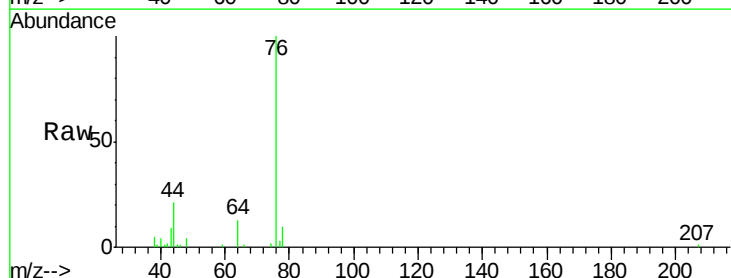
Acq: 14 Dec 2020 14:19

Tgt Ion: 43 Resp: 1040

Ion Ratio Lower Upper

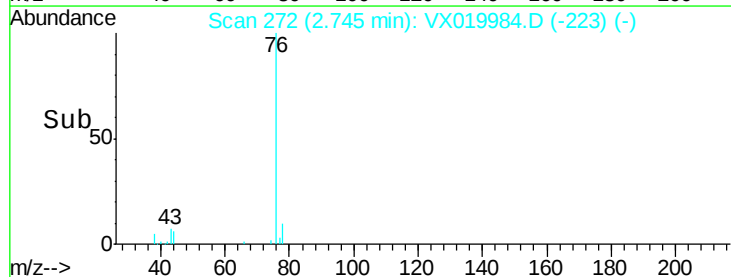
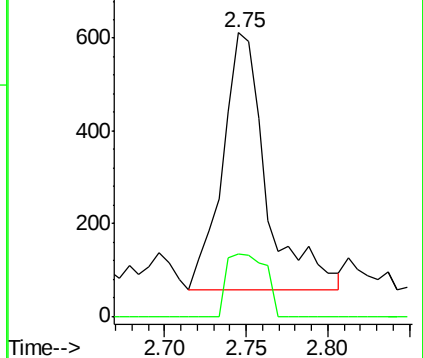
43 100

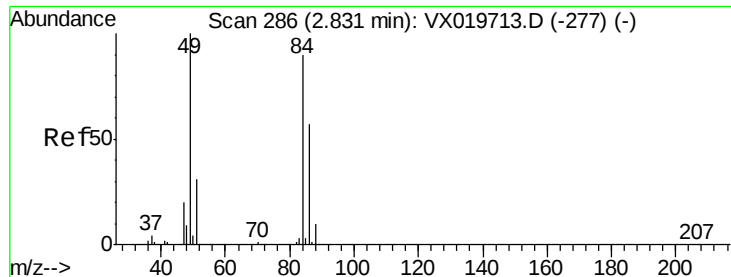
74 21.6 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

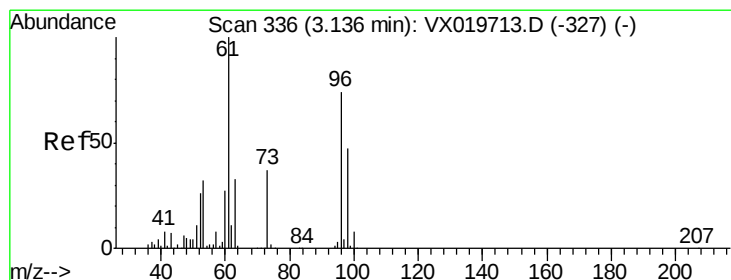
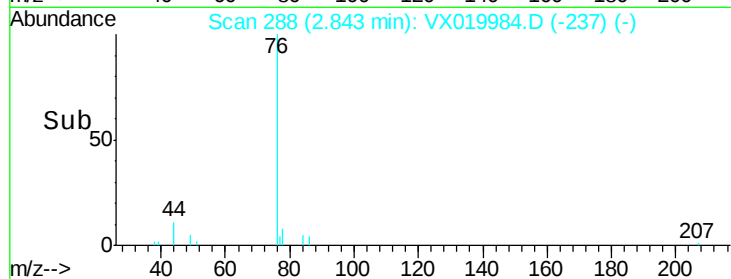
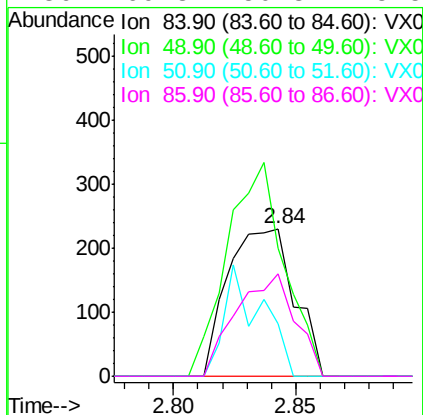
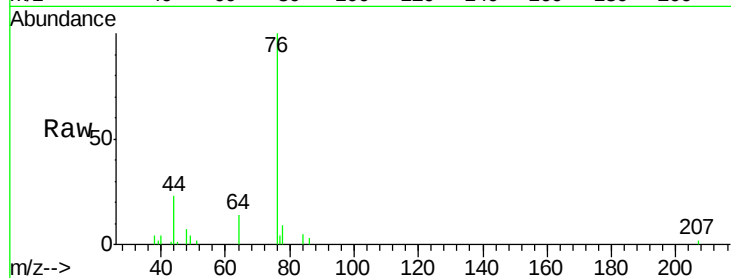
Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5780-121020

Tgt Ion:	84	Resp:	437
Ion	Ratio	Lower	Upper
84	100		
49	86.6	88.6	132.8#
51	35.5	27.0	40.6
86	69.3	50.3	75.5



#21

trans-1,2-Dichloroethene

Concen: 2.668 ug/l

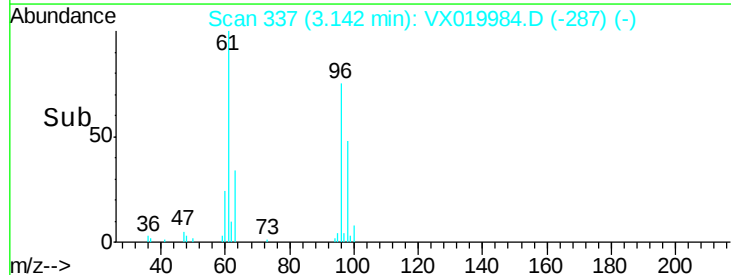
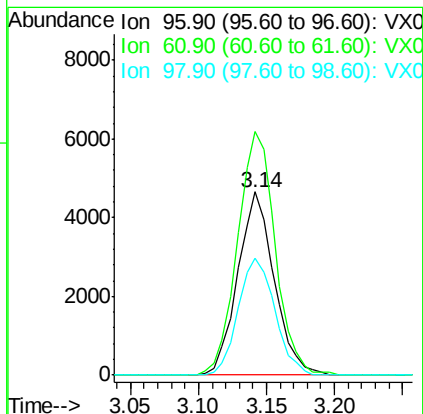
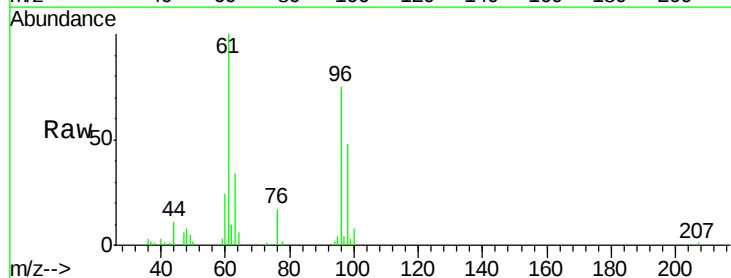
RT: 3.14 min Scan# 337

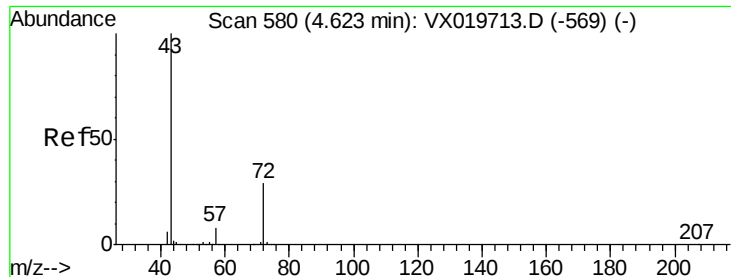
Delta R.T. 0.01 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Tgt Ion:	96	Resp:	8700
Ion	Ratio	Lower	Upper
96	100		
61	133.2	107.7	161.5
98	63.6	50.4	75.6





#25

2-Butanone

Concen: 0.804 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

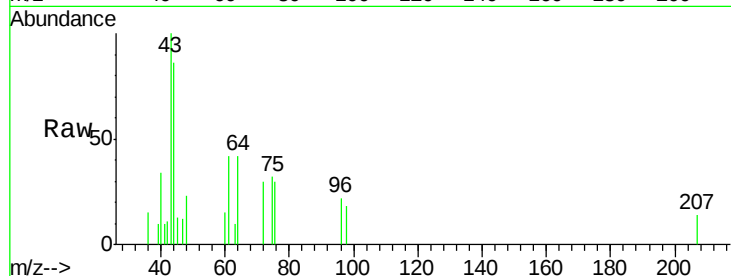
TU032-32-5780-121020

Tgt Ion: 43 Resp: 1862

Ion Ratio Lower Upper

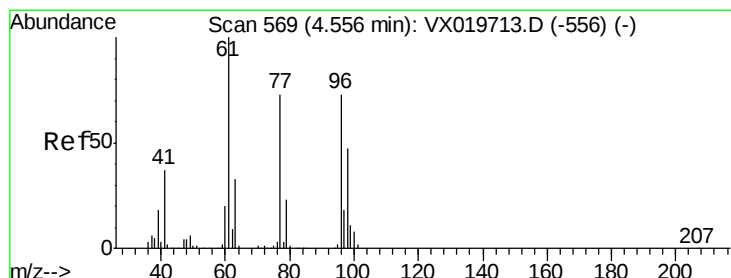
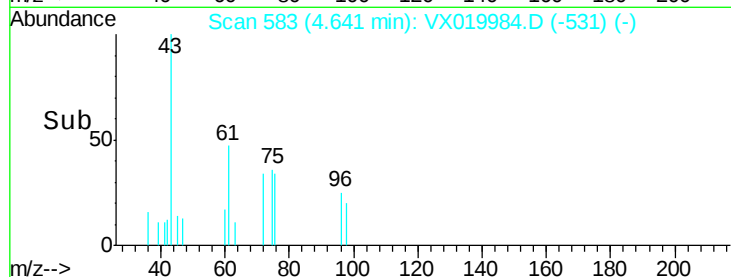
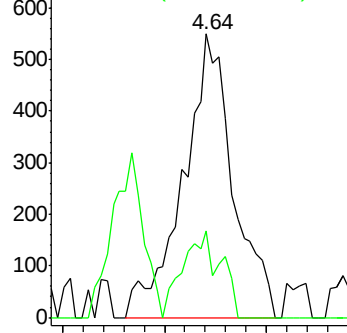
43 100

72 30.4 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 21.147 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

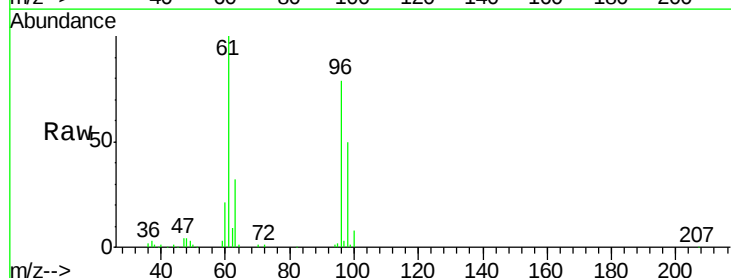
Tgt Ion: 96 Resp: 80685

Ion Ratio Lower Upper

96 100

61 125.6 0.0 285.6

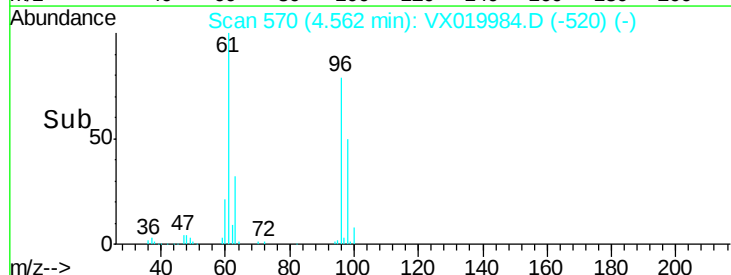
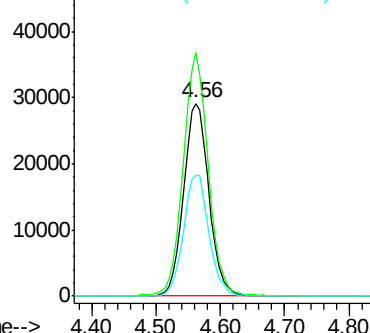
98 63.2 0.0 129.6

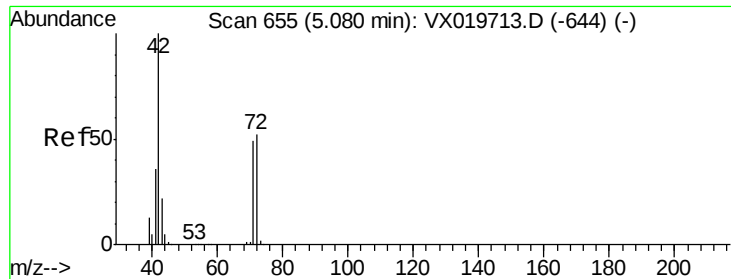


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

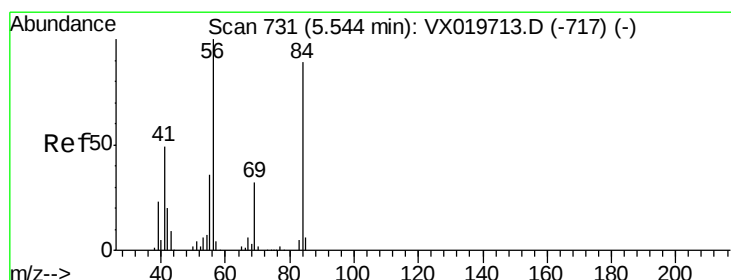
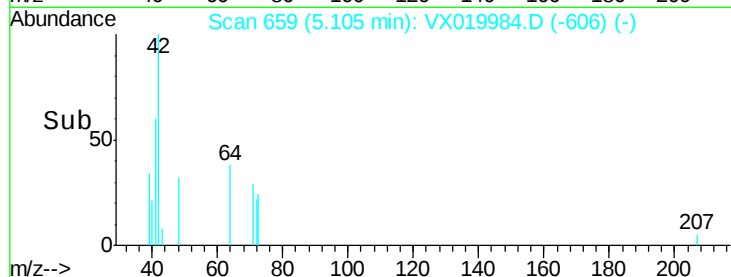
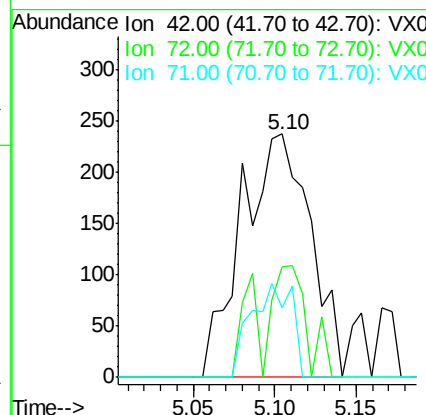
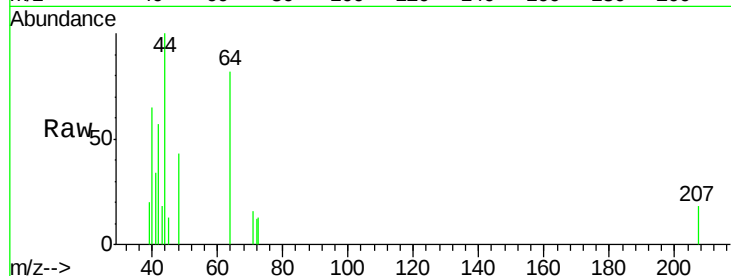




#29
Tetrahydrofuran
Concen: 0.468 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019984.D
Acq: 14 Dec 2020 14:19

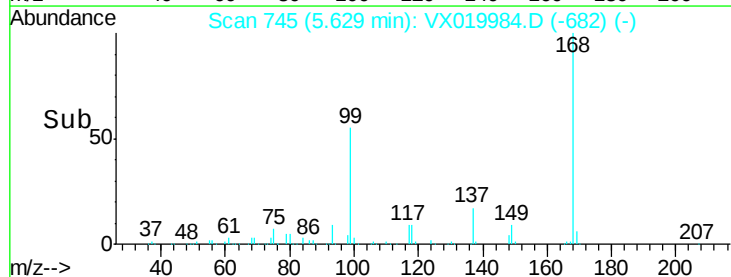
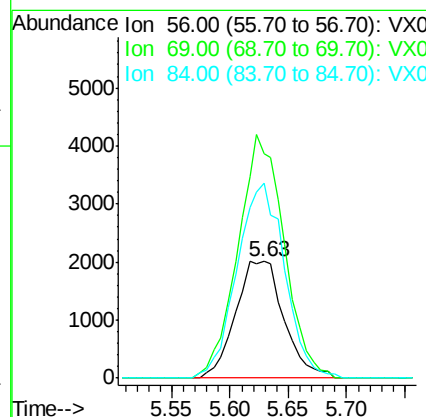
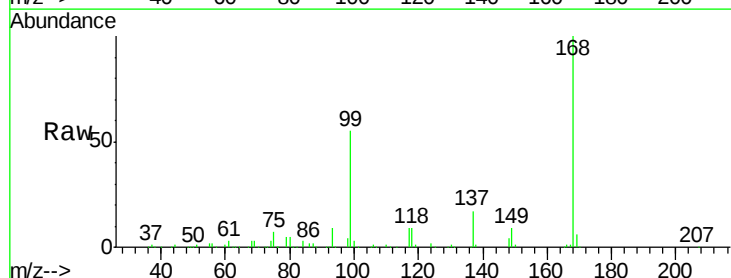
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5780-121020

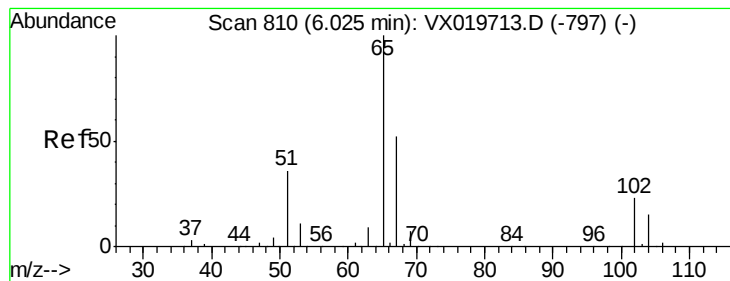
Tgt Ion: 42 Resp: 698
Ion Ratio Lower Upper
42 100
72 22.6 41.7 62.5#
71 22.6 38.4 57.6#



#31
Cyclohexane
Concen: 1.164 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019984.D
Acq: 14 Dec 2020 14:19

Tgt Ion: 56 Resp: 5807
Ion Ratio Lower Upper
56 100
69 192.3 25.3 37.9#
84 166.6 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 48.138 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

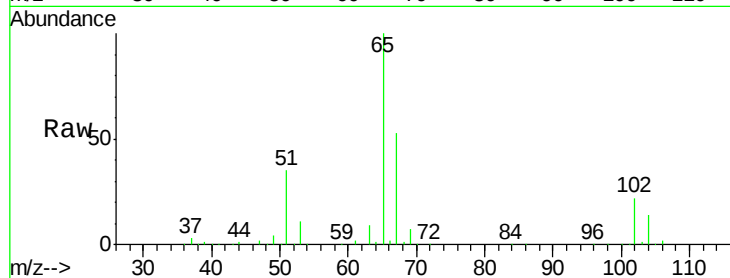
TU032-32-5780-121020

Tgt Ion: 65 Resp: 193111

Ion Ratio Lower Upper

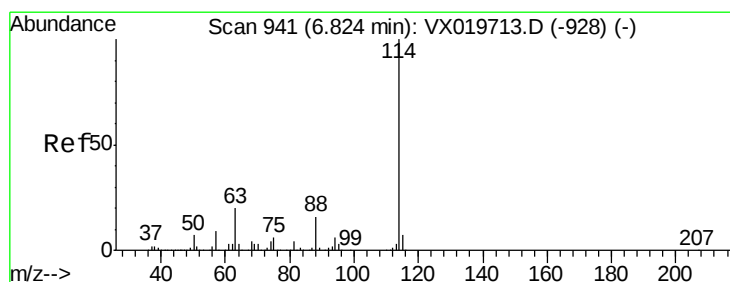
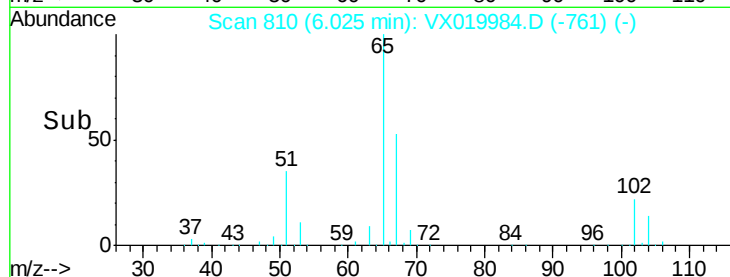
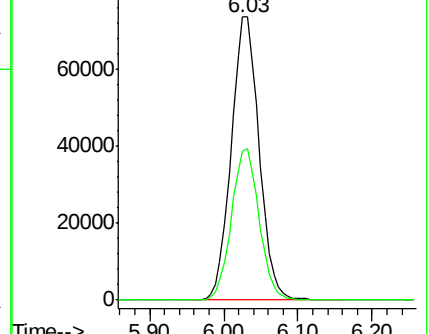
65 100

67 53.2 0.0 105.4



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. 0.01 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

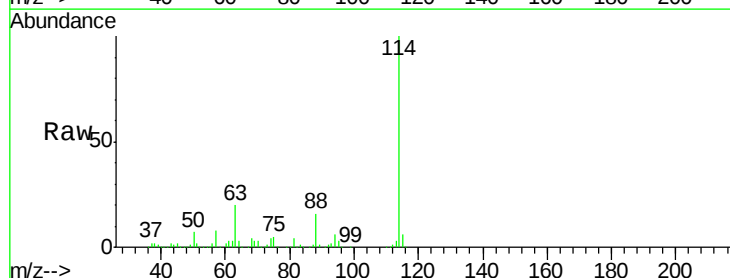
Tgt Ion: 114 Resp: 503218

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

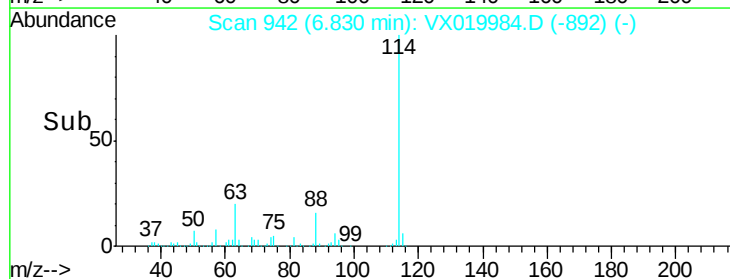
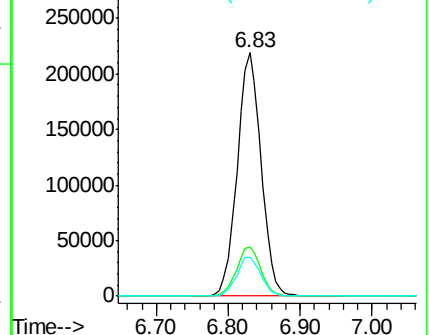
88 15.8 0.0 32.8

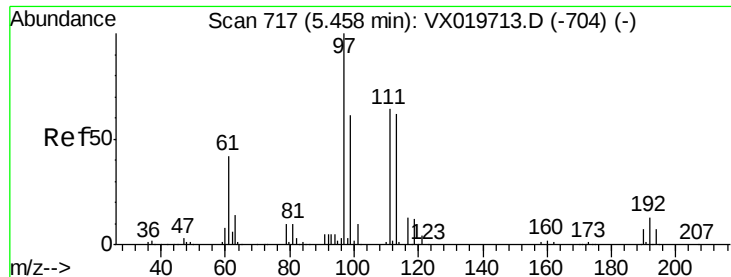


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

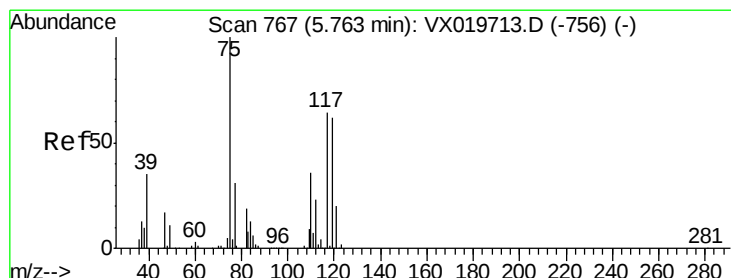
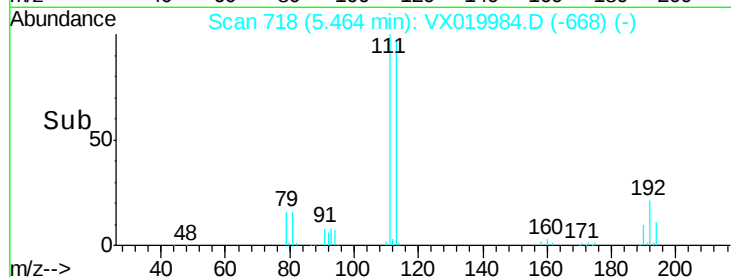
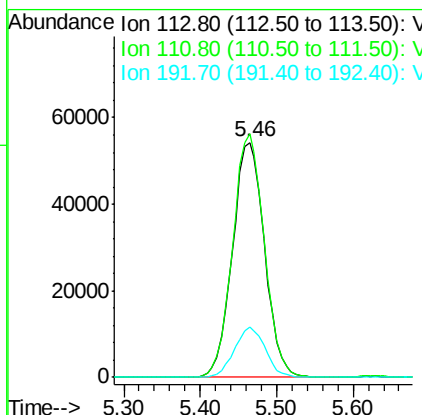
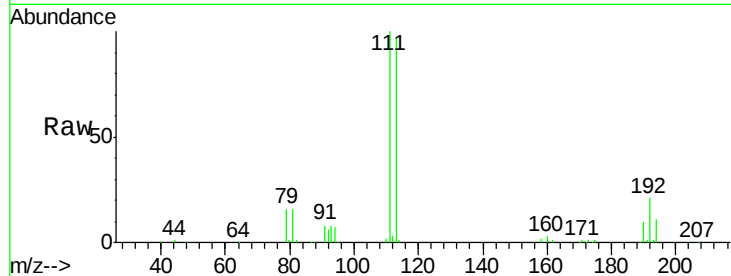




#35
 Dibromofluoromethane
 Concen: 48.466 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019984.D
 Acq: 14 Dec 2020 14:19

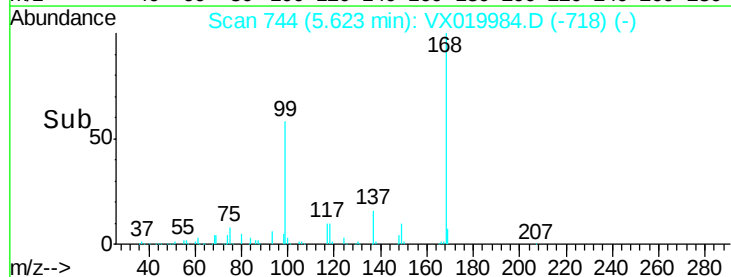
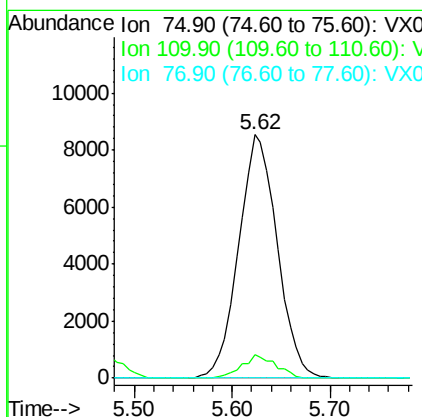
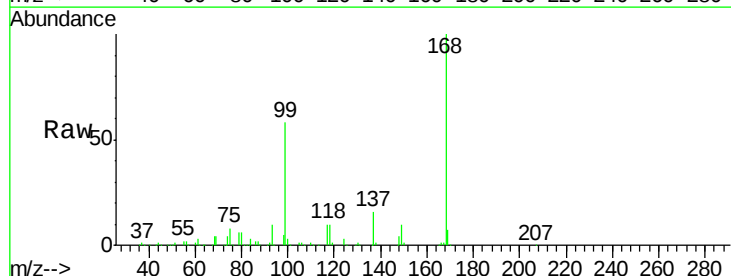
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5780-121020

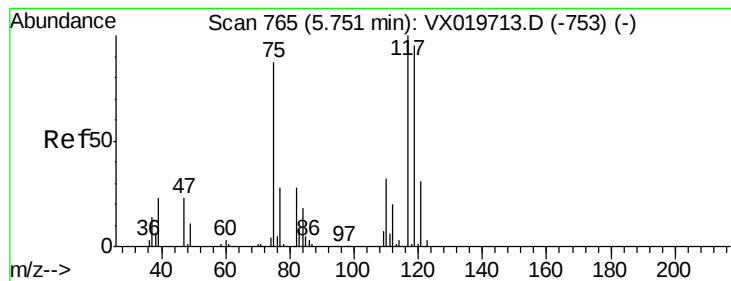
Tgt Ion:113 Resp: 157623
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.9 122.9
 192 20.6 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 5.126 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019984.D
 Acq: 14 Dec 2020 14:19

Tgt Ion: 75 Resp: 23310
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.4#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.662 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5780-121020

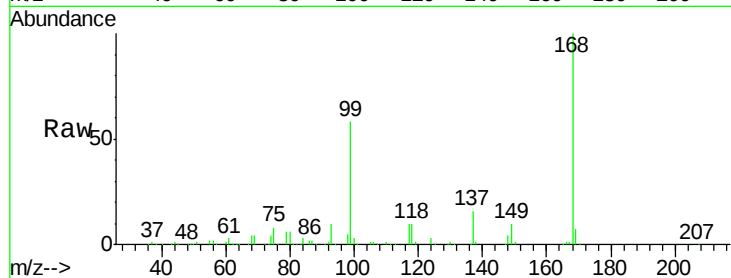
Tgt Ion:117 Resp: 29664

Ion Ratio Lower Upper

117 100

119 6.3 76.2 114.2#

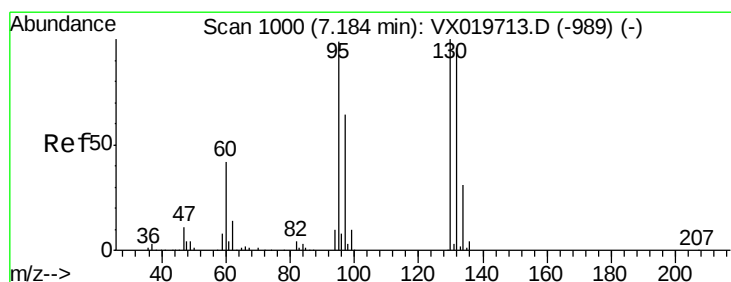
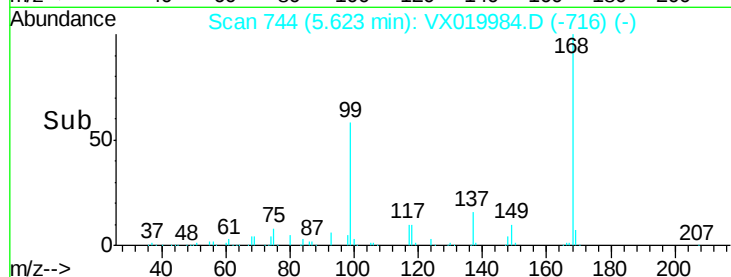
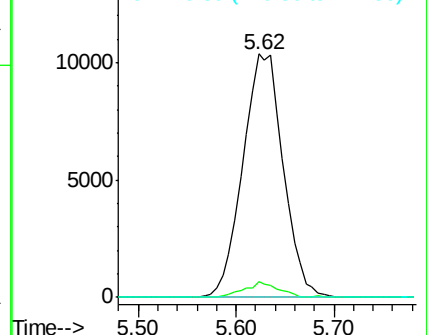
121 0.0 24.8 37.2#



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



#44

Trichloroethene

Concen: 3.296 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019984.D

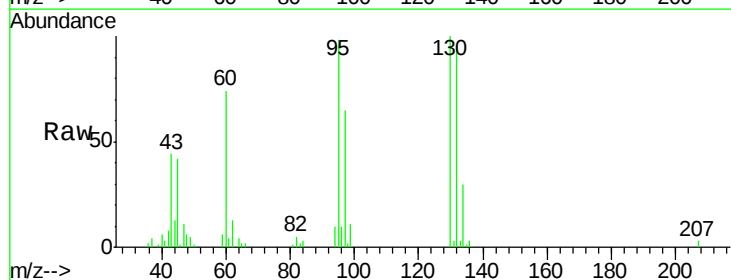
Acq: 14 Dec 2020 14:19

Tgt Ion:130 Resp: 12011

Ion Ratio Lower Upper

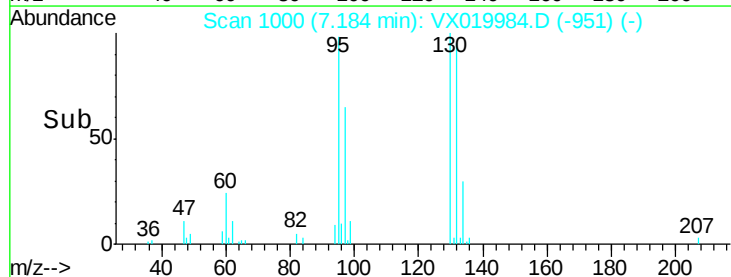
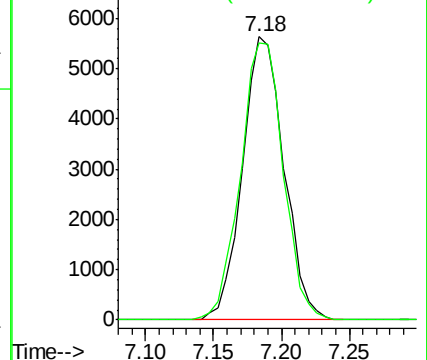
130 100

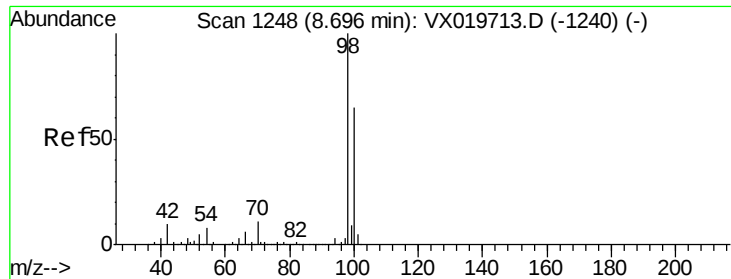
95 97.7 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

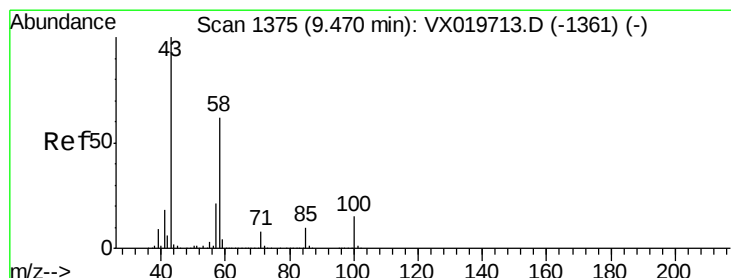
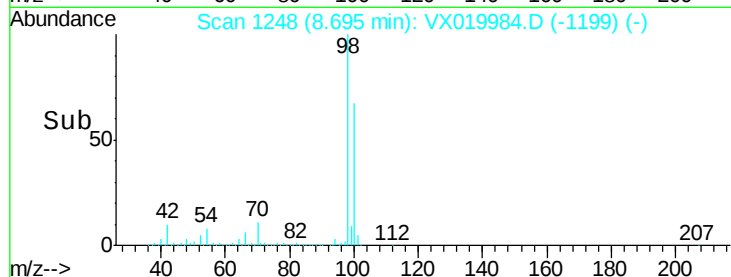
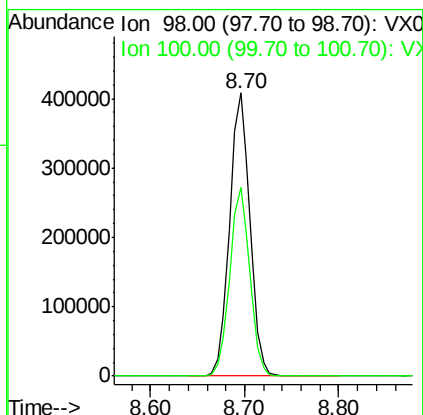
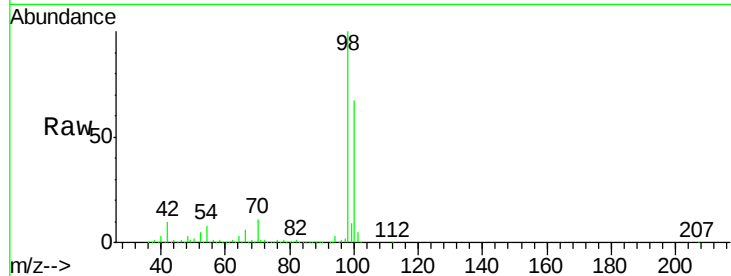




#50
Toluene-d8
Concen: 49.052 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019984.D
Acq: 14 Dec 2020 14:19

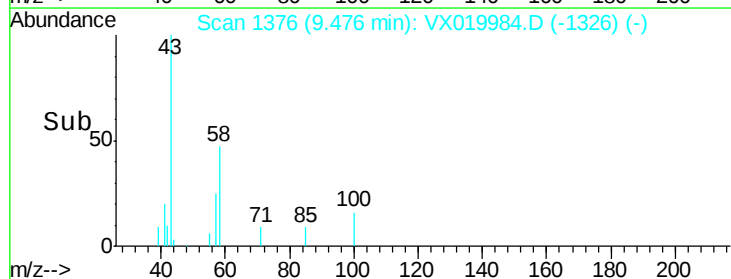
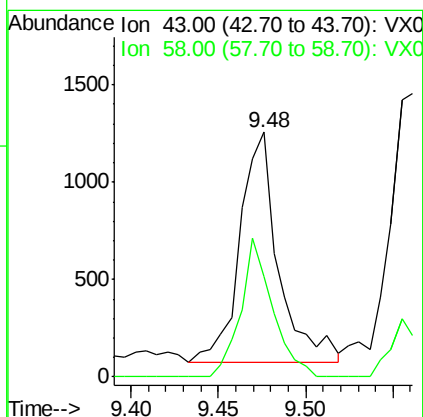
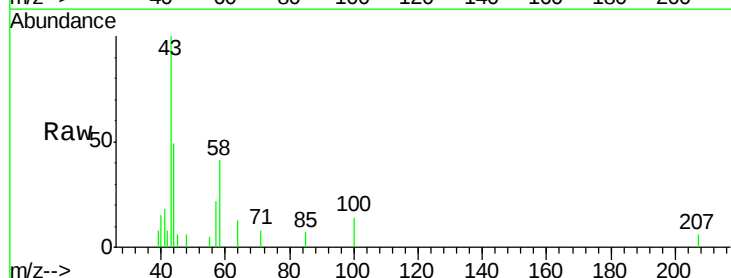
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5780-121020

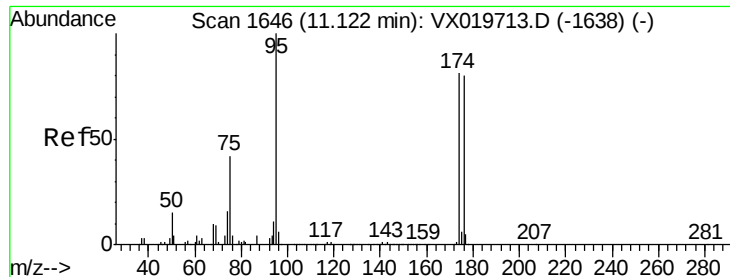
Tgt Ion: 98 Resp: 609039
Ion Ratio Lower Upper
98 100
100 65.8 51.9 77.9



#59
2-Hexanone
Concen: 0.520 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX019984.D
Acq: 14 Dec 2020 14:19

Tgt Ion: 43 Resp: 1836
Ion Ratio Lower Upper
43 100
58 49.2 30.9 92.8





#62

4-Bromofluorobenzene

Concen: 44.300 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5780-121020

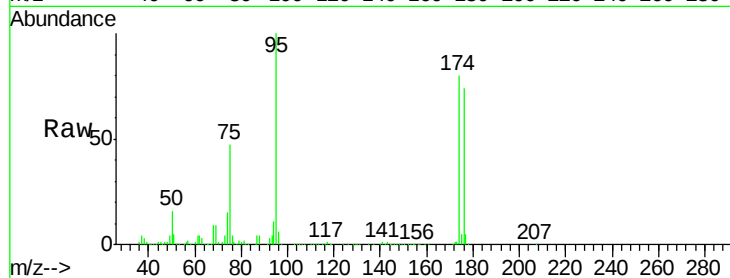
Tgt Ion: 95 Resp: 209351

Ion Ratio Lower Upper

95 100

174 77.4 0.0 154.6

176 74.4 0.0 155.8

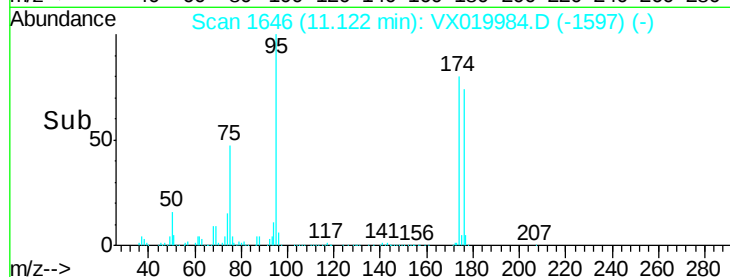


Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

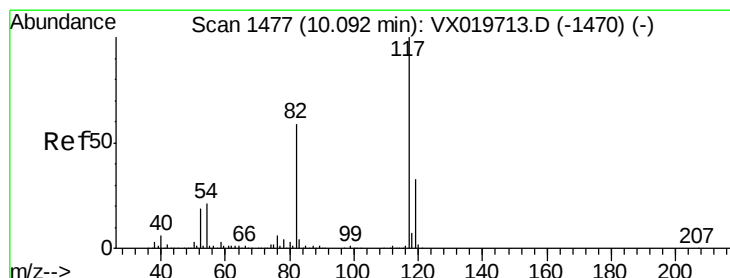
Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

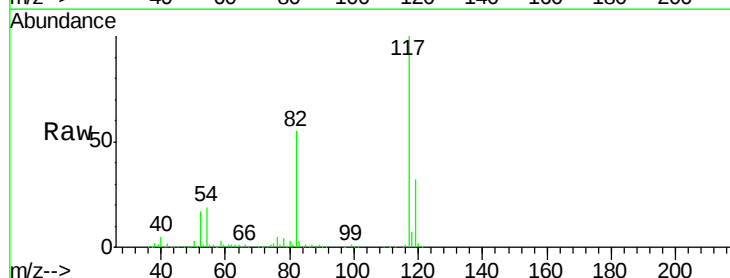
Tgt Ion: 117 Resp: 456050

Ion Ratio Lower Upper

117 100

82 54.7 47.4 71.2

119 32.0 26.6 39.8

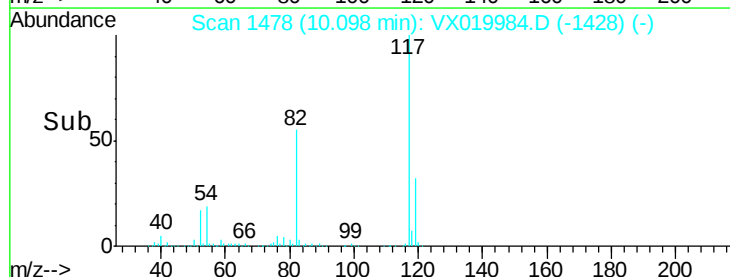


Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

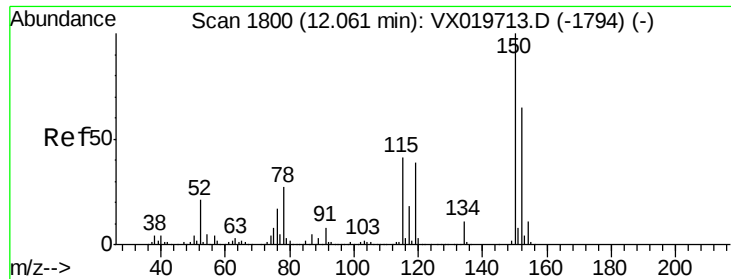
Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5780-121020

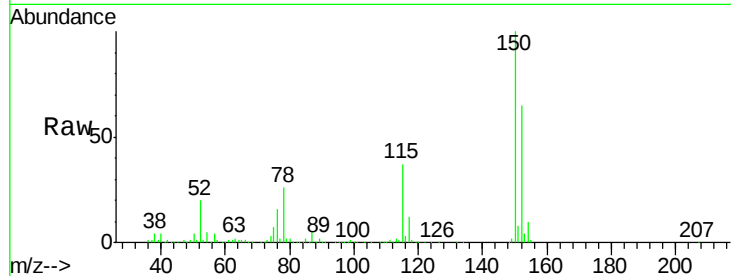
Tgt Ion:152 Resp: 192920

Ion Ratio Lower Upper

152 100

115 59.7 41.1 123.3

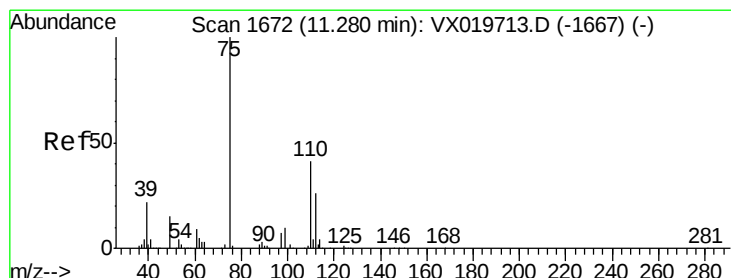
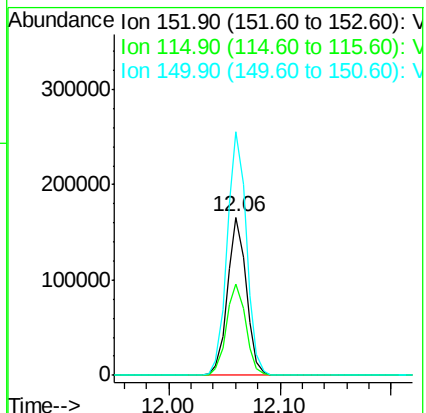
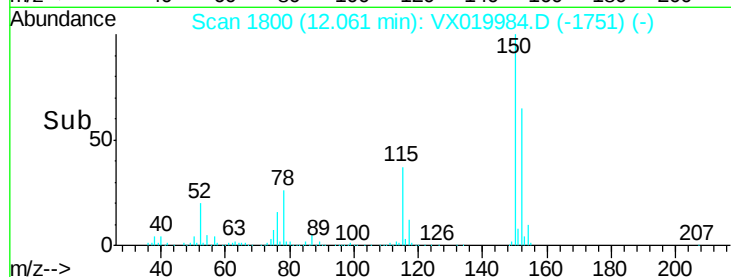
150 158.4 0.0 349.0



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: 23.282 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019984.D

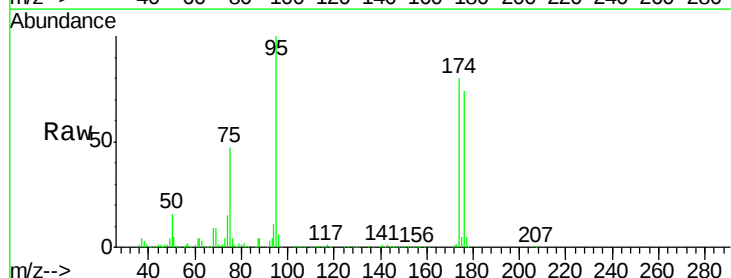
Acq: 14 Dec 2020 14:19

Tgt Ion: 75 Resp: 100736

Ion Ratio Lower Upper

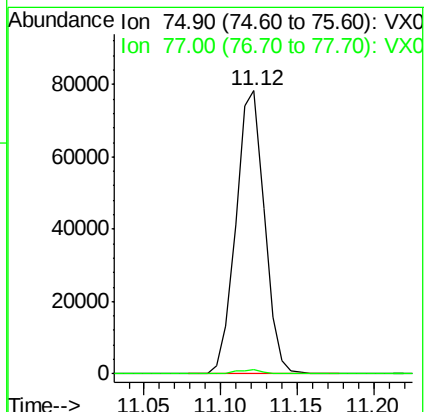
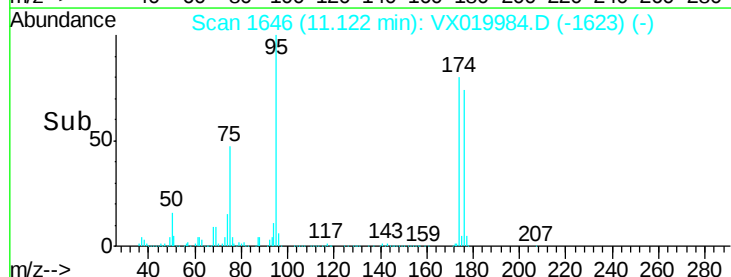
75 100

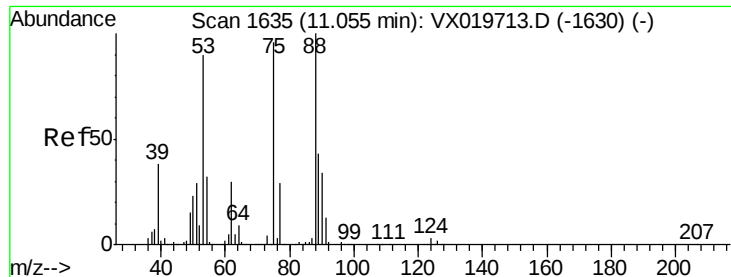
77 1.4 19.1 57.5#



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: 67.303 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019984.D

Acq: 14 Dec 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5780-121020

Tgt Ion: 75 Resp: 100736

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

