

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020010.D
 Acq On : 15 Dec 2020 14:38
 Operator : JC/MD
 Sample : L5052-12DL 4X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5778-121020DL

Quant Time: Dec 16 00:24:25 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	314655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	519730	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	480624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211872	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	197887	47.85	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.70%	
35) Dibromofluoromethane		5.46	113	160228	47.70	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.40%	
50) Toluene-d8		8.70	98	629358	49.08	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.16%	
62) 4-Bromofluorobenzene		11.12	95	224243	45.94	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.88%	

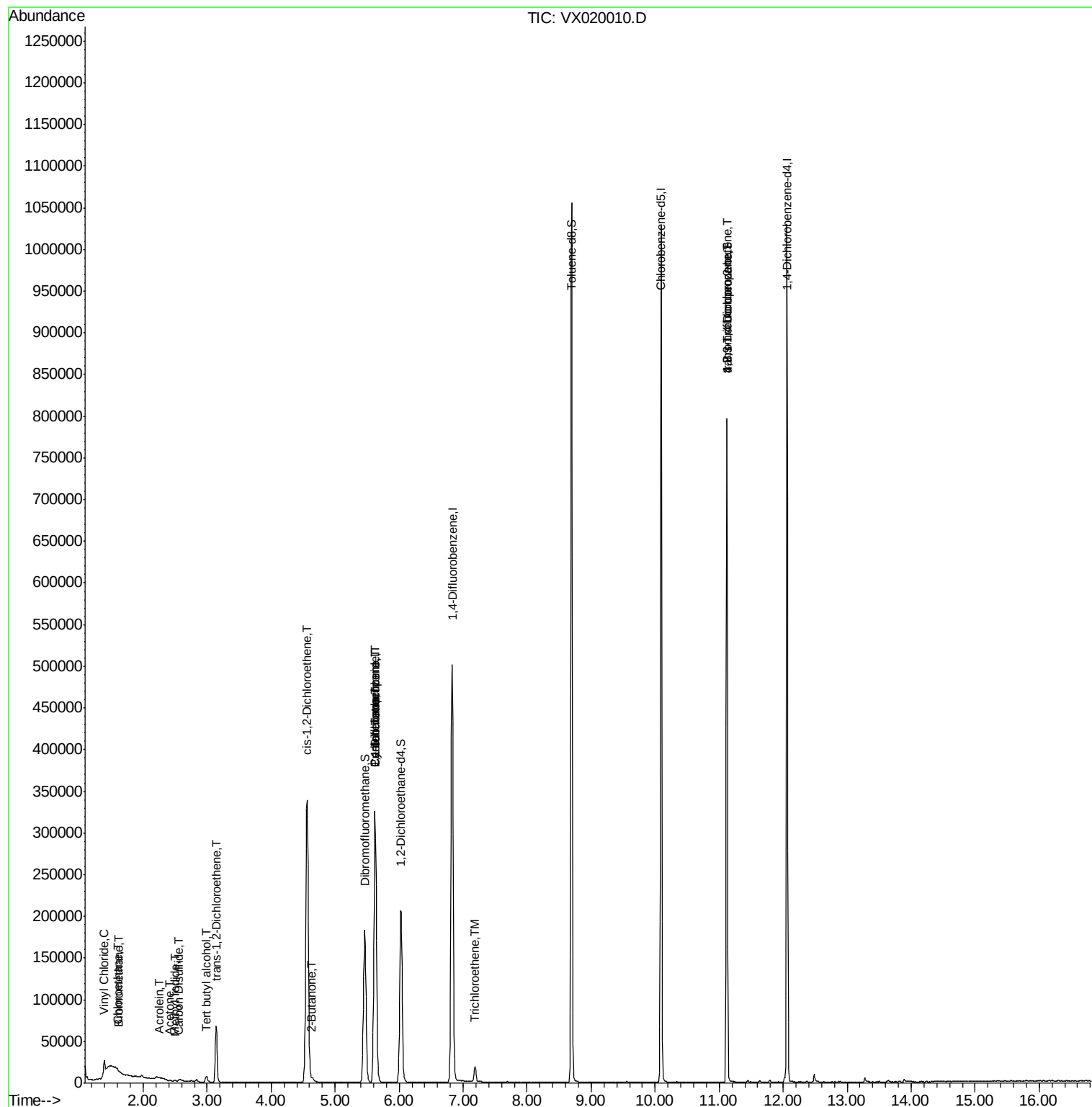
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	7848	2.197	ug/l #	37
5) Bromomethane	1.63	94	361	0.304	ug/l	90
6) Chloroethane	1.61	64	4904	2.285	ug/l #	61
10) Methyl Iodide	2.50	142	1399	0.333	ug/l	99
11) Tert butyl alcohol	3.00	59	4440	2.637	ug/l #	73
13) Acrolein	2.25	56	121	0.265	ug/l #	1
16) Acetone	2.42	43	1727	1.111	ug/l	92
17) Carbon Disulfide	2.56	76	1916	0.232	ug/l #	92
20) Methylene Chloride	2.84	84	1253	Below Cal		90
21) trans-1,2-Dichloroethene	3.14	96	28352	8.435	ug/l	99
25) 2-Butanone	4.64	43	550	0.230	ug/l #	45
27) cis-1,2-Dichloroethene	4.56	96	224136	56.984	ug/l	91
31) Cyclohexane	5.62	56	6071	1.180	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24715	5.262	ug/l #	48
38) Carbon Tetrachloride	5.63	117	30940	6.728	ug/l #	17
44) Trichloroethene	7.19	130	6361	1.690	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	106506	22.413	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	106506	64.793	ug/l #	12

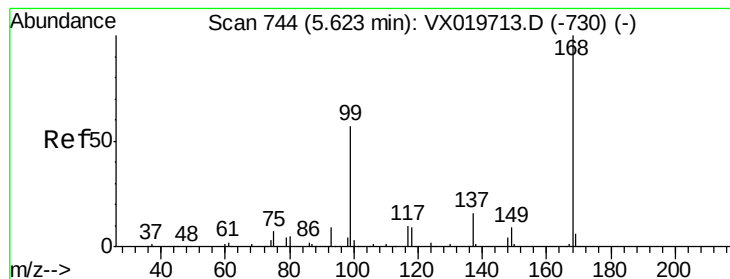
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

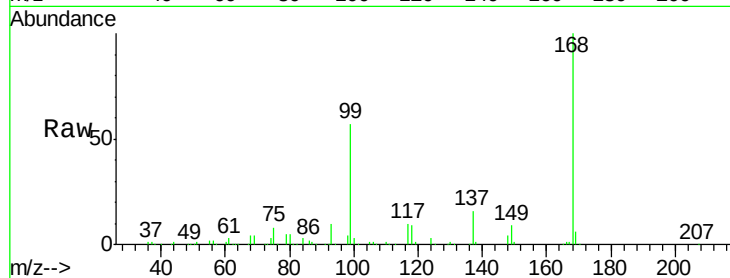
TU032-32-5778-121020DL

Tgt Ion:168 Resp: 314655

Ion Ratio Lower Upper

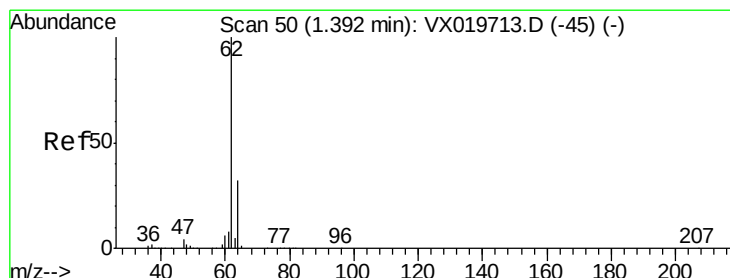
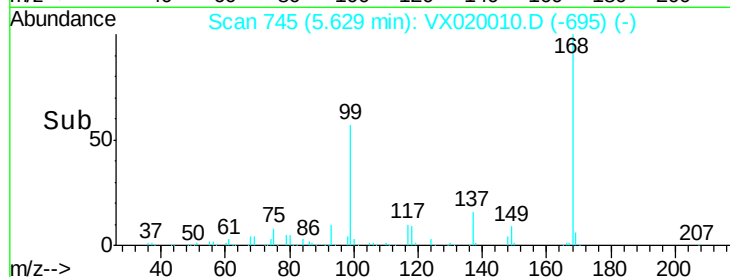
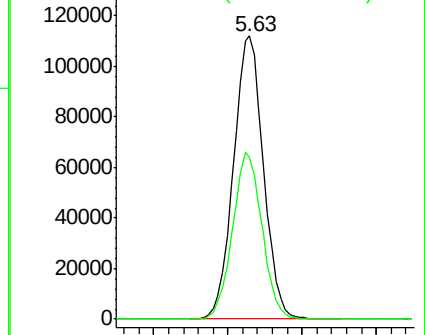
168 100

99 57.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 2.197 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX020010.D

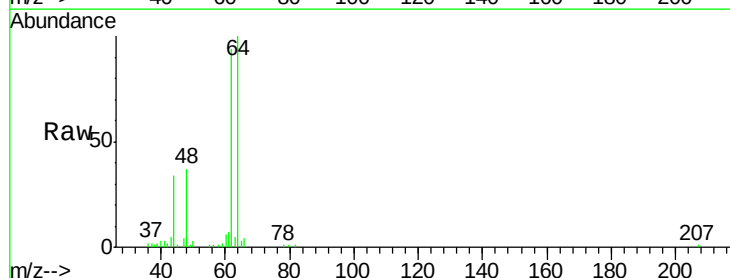
Acq: 15 Dec 2020 14:38

Tgt Ion: 62 Resp: 7848

Ion Ratio Lower Upper

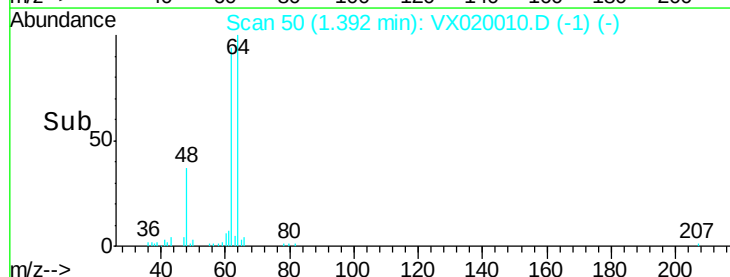
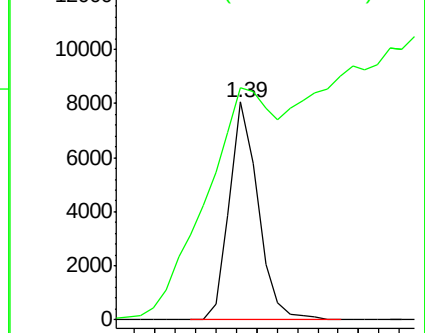
62 100

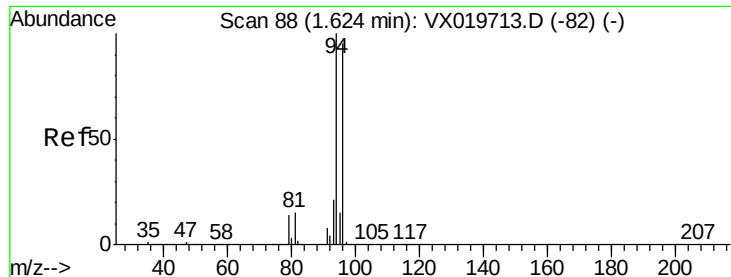
64 67.1 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.304 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

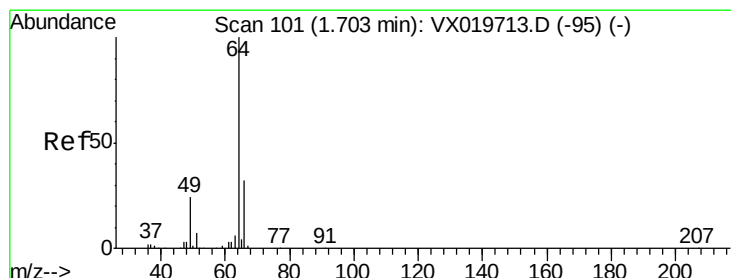
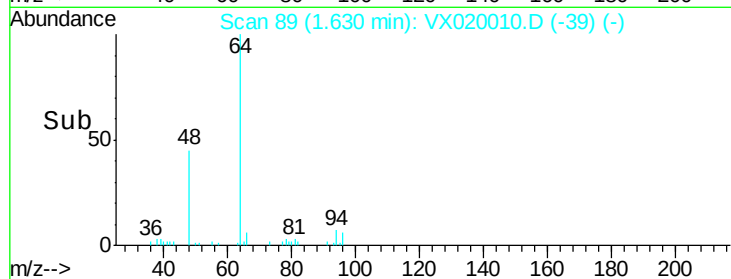
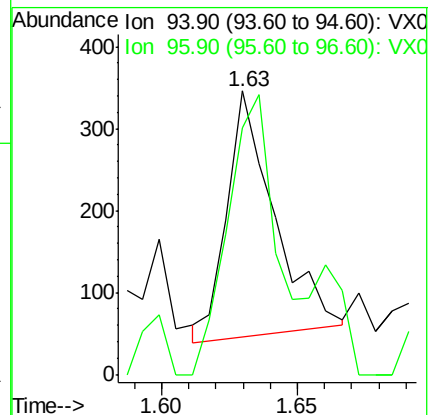
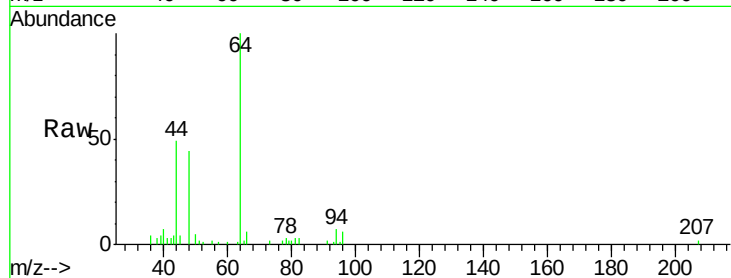
TU032-32-5778-121020DL

Tgt Ion: 94 Resp: 361

Ion Ratio Lower Upper

94 100

96 105.6 76.4 114.6



#6

Chloroethane

Concen: 2.285 ug/l

RT: 1.61 min Scan# 85

Delta R.T. -0.10 min

Lab File: VX020010.D

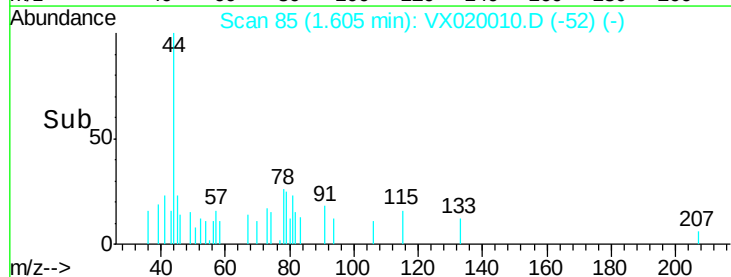
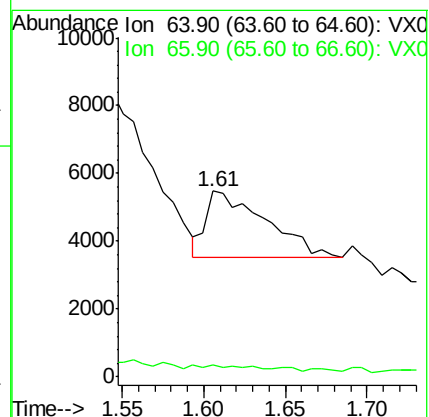
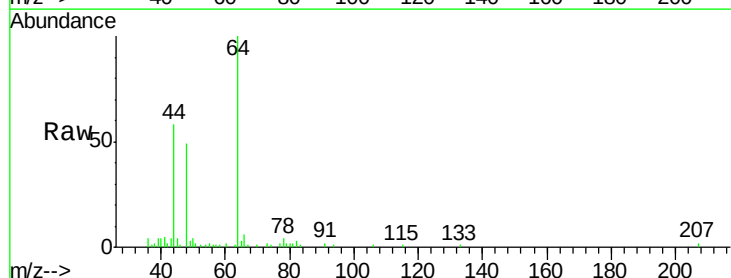
Acq: 15 Dec 2020 14:38

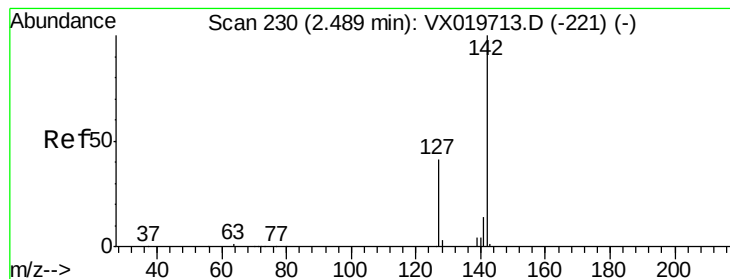
Tgt Ion: 64 Resp: 4904

Ion Ratio Lower Upper

64 100

66 10.2 25.4 38.0#





#10

Methyl Iodide

Concen: 0.333 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5778-121020DL

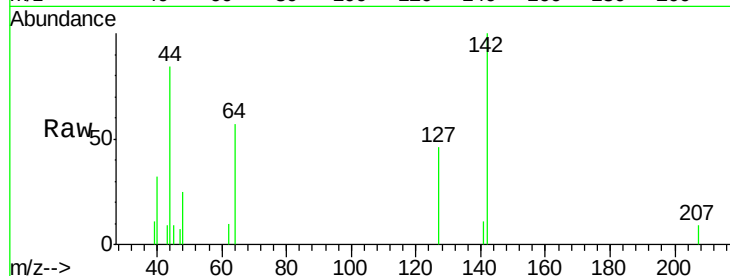
Tgt Ion:142 Resp: 1399

Ion Ratio Lower Upper

142 100

127 41.4 33.3 49.9

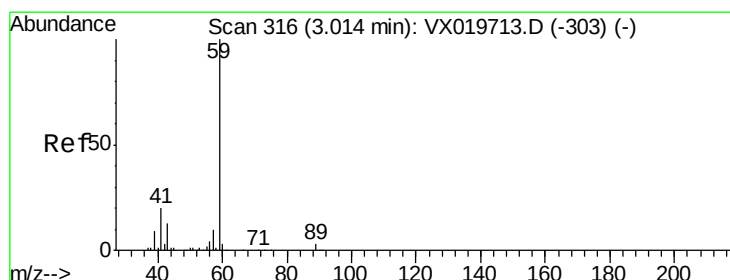
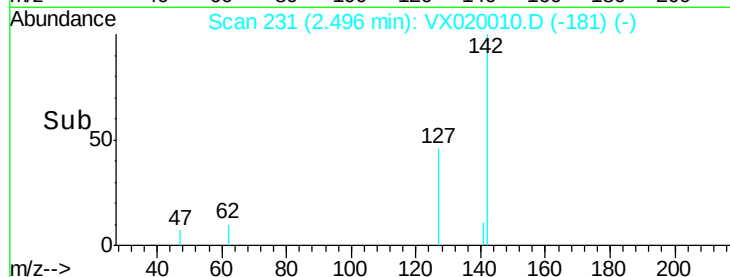
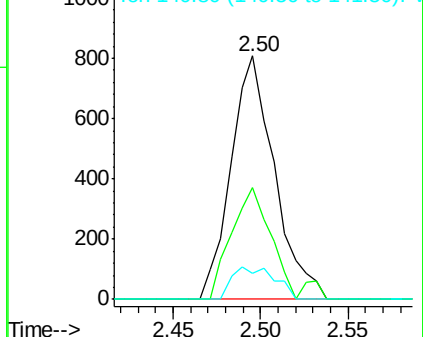
141 12.9 11.4 17.0



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: 2.637 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX020010.D

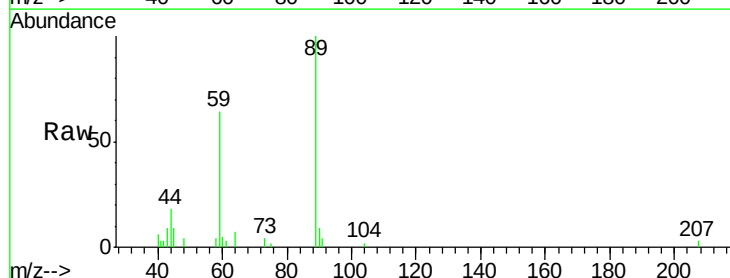
Acq: 15 Dec 2020 14:38

Tgt Ion: 59 Resp: 4440

Ion Ratio Lower Upper

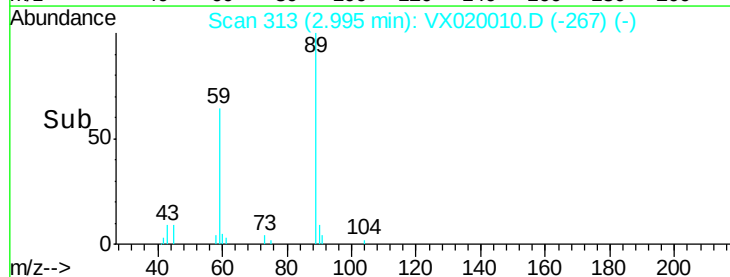
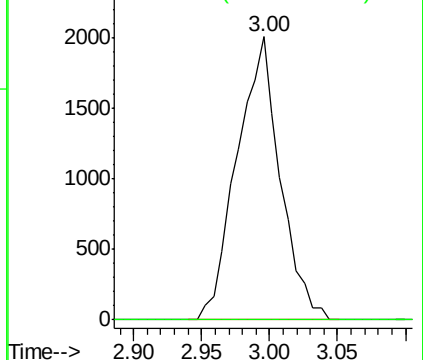
59 100

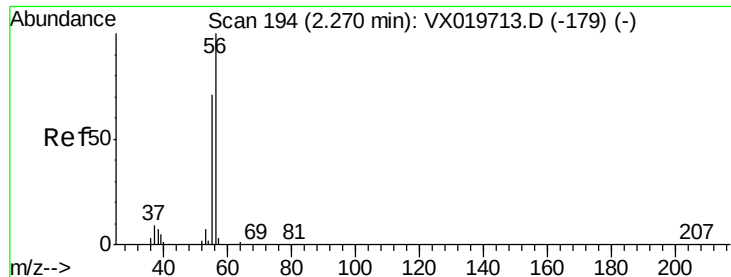
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.265 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

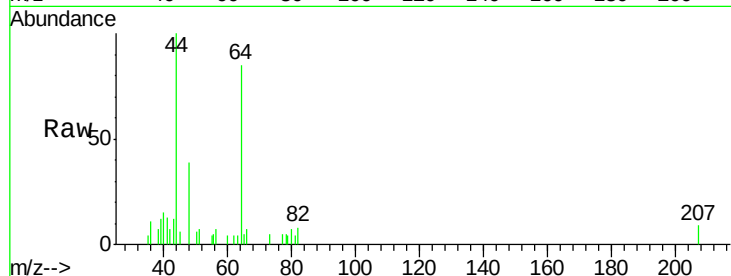
TU032-32-5778-121020DL

Tgt Ion: 56 Resp: 121

Ion Ratio Lower Upper

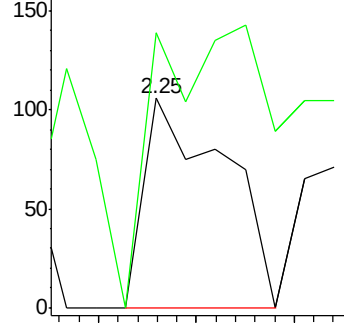
56 100

55 283.5 56.4 84.6#

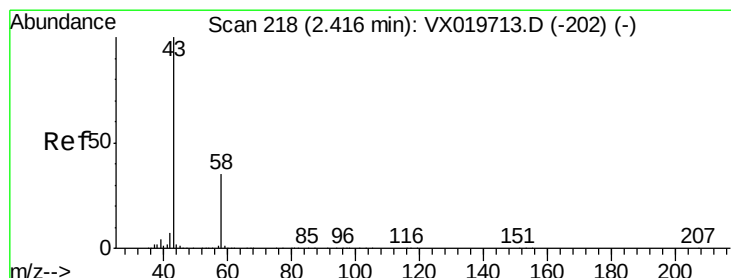
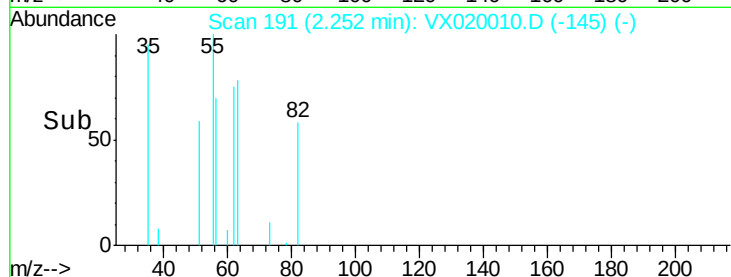


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 1.111 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020010.D

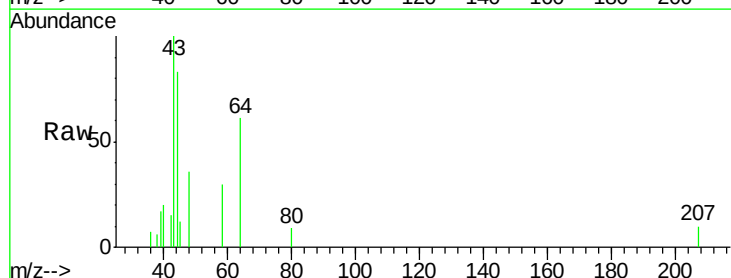
Acq: 15 Dec 2020 14:38

Tgt Ion: 43 Resp: 1727

Ion Ratio Lower Upper

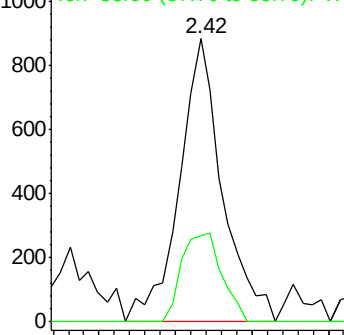
43 100

58 30.4 27.8 41.8

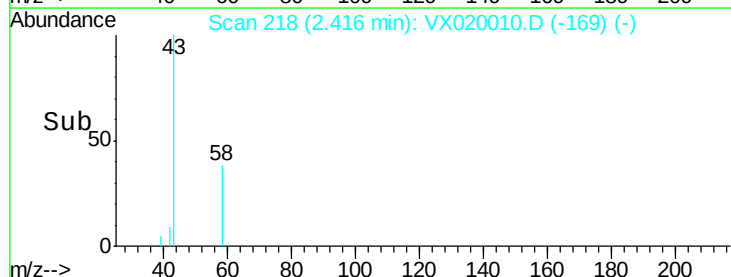


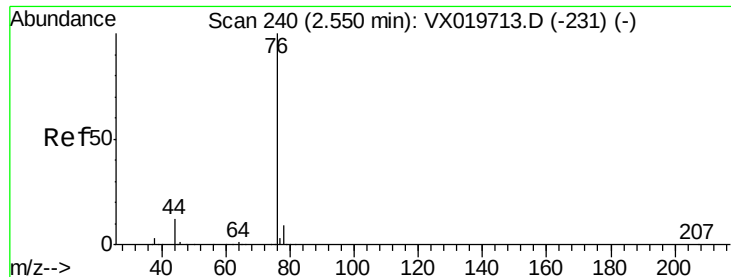
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.232 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

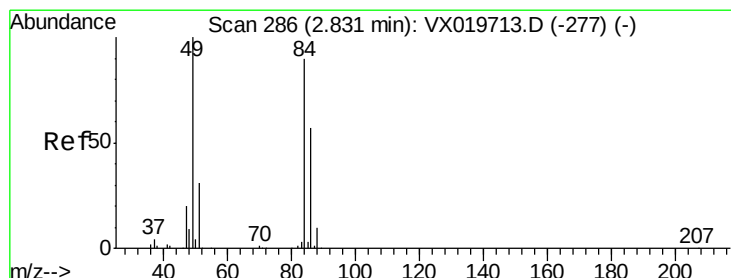
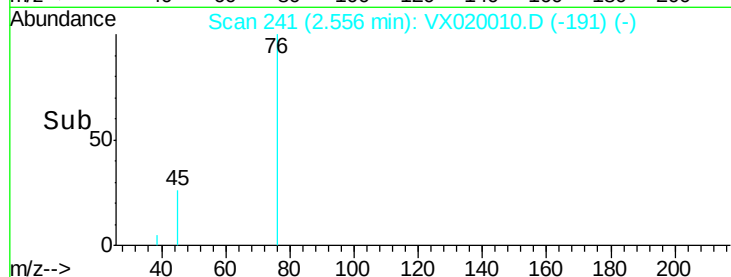
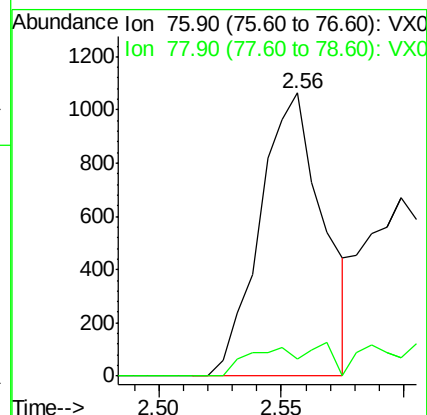
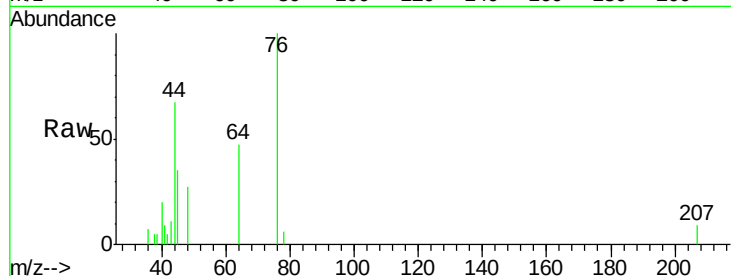
TU032-32-5778-121020DL

Tgt Ion: 76 Resp: 1916

Ion Ratio Lower Upper

76 100

78 6.2 7.2 10.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Tgt Ion: 84 Resp: 1253

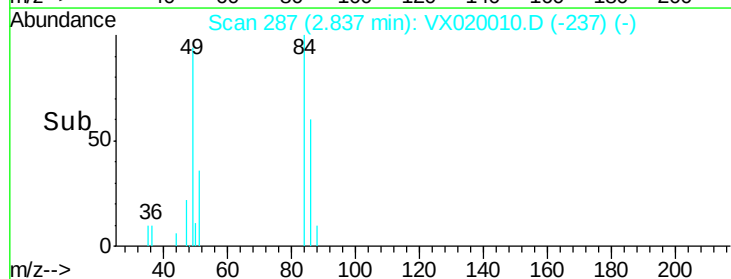
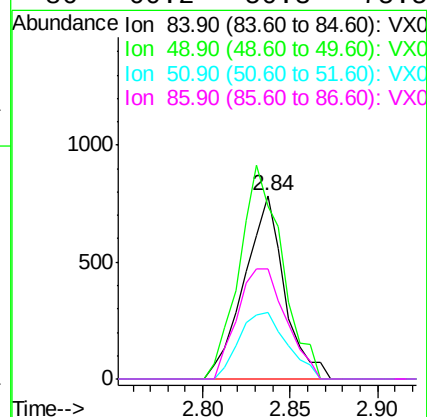
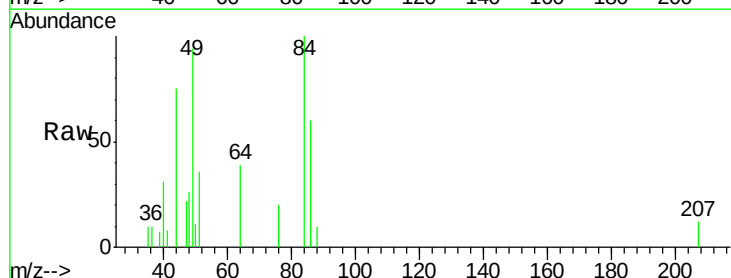
Ion Ratio Lower Upper

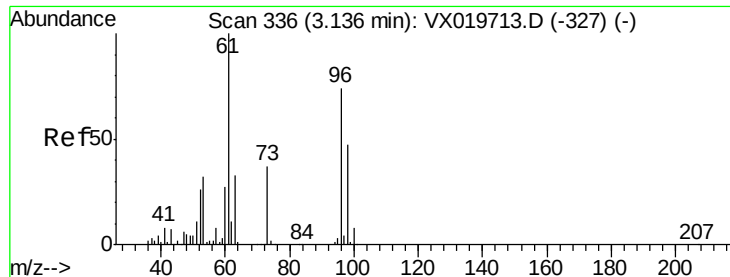
84 100

49 94.1 88.6 132.8

51 36.4 27.0 40.6

86 60.2 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 8.435 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

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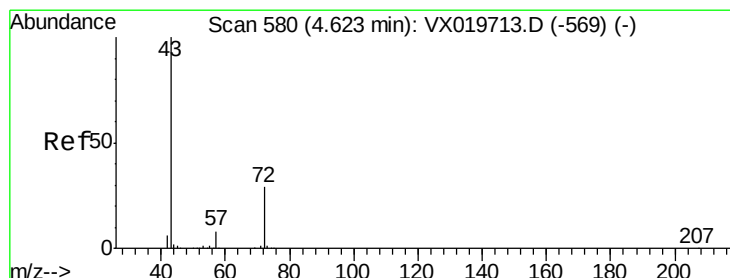
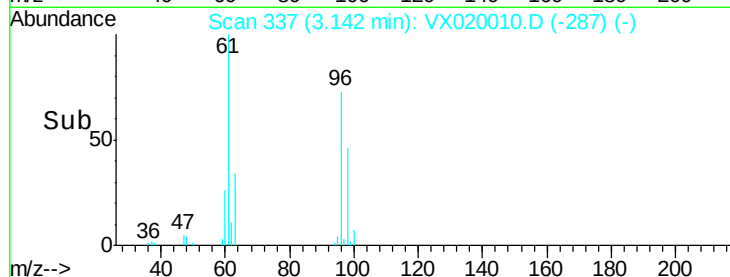
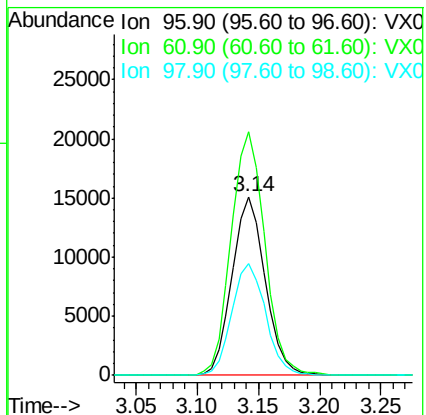
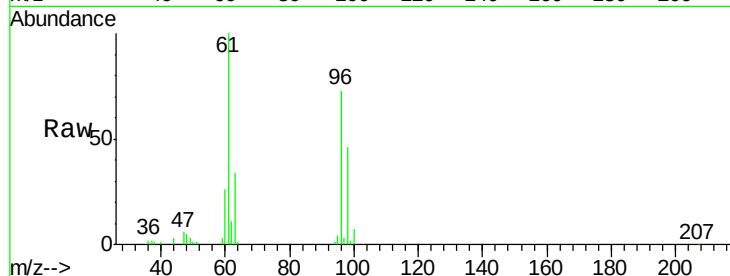
Tgt Ion: 96 Resp: 28352

Ion Ratio Lower Upper

96 100

61 136.5 107.7 161.5

98 62.3 50.4 75.6



#25

2-Butanone

Concen: 0.230 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX020010.D

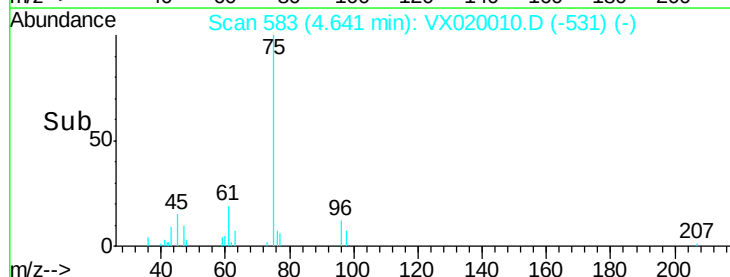
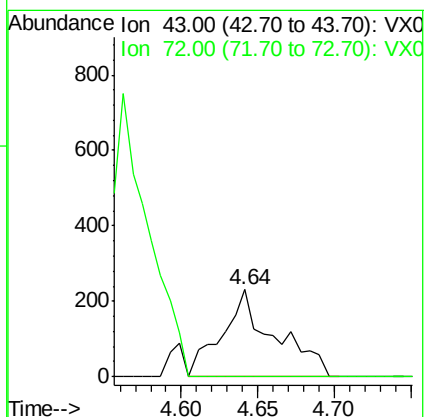
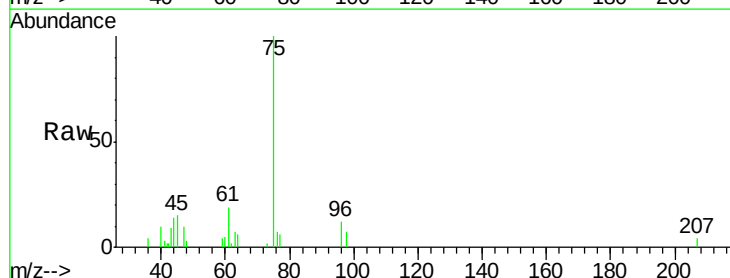
Acq: 15 Dec 2020 14:38

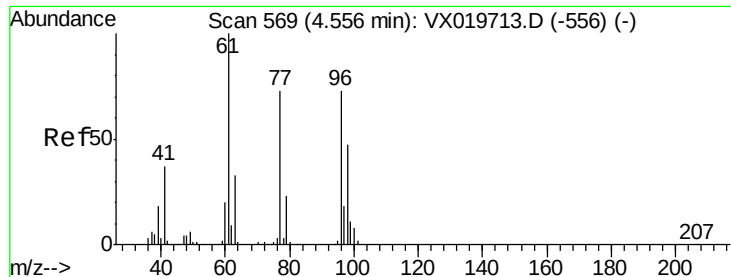
Tgt Ion: 43 Resp: 550

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



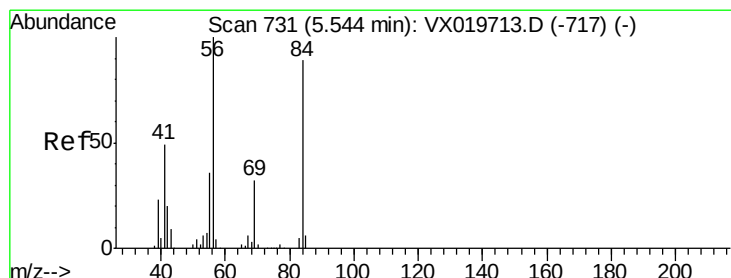
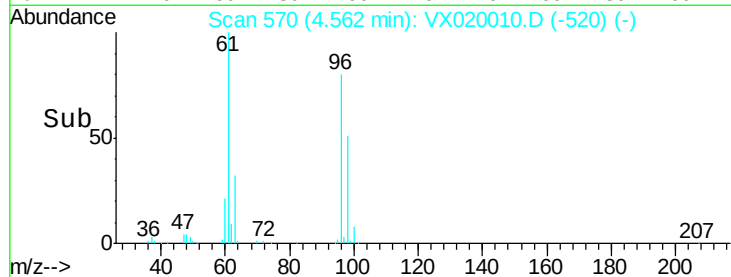
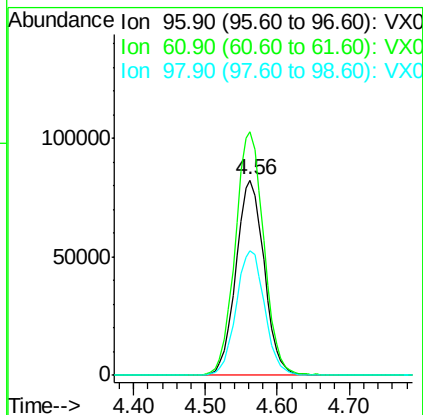
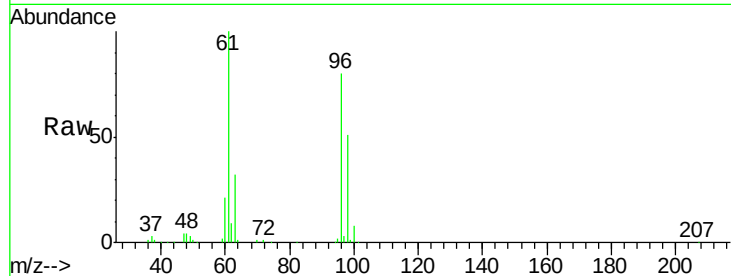


#27

cis-1,2-Dichloroethene
Concen: 56.984 ug/l
RT: 4.56 min Scan# 570
Delta R.T. 0.01 min
Lab File: VX020010.D
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Instrument :
MSVOA_X
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TU032-32-5778-121020DL

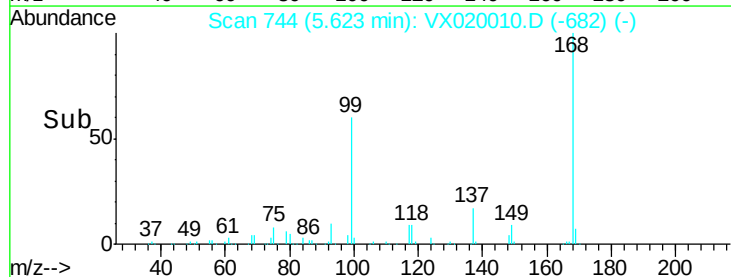
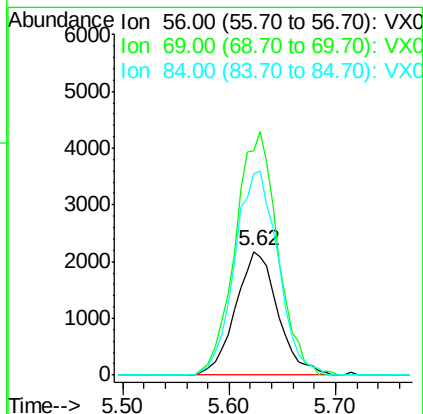
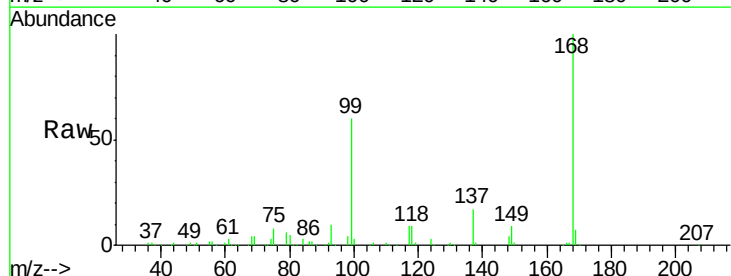
Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.6	0.0	285.6
98	64.6	0.0	129.6

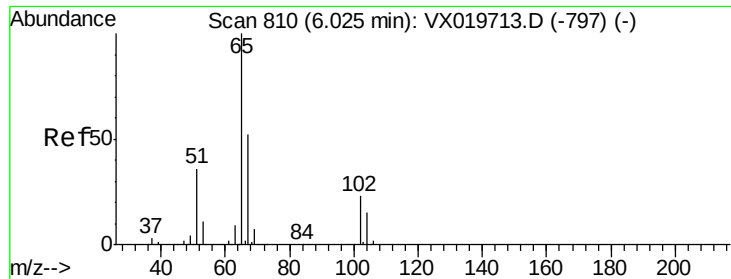


#31

Cyclohexane
Concen: 1.180 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX020010.D
Acq: 15 Dec 2020 14:38

Tgt Ion	Ratio	Lower	Upper
56	100		
69	181.9	25.3	37.9#
84	162.5	71.4	107.0#

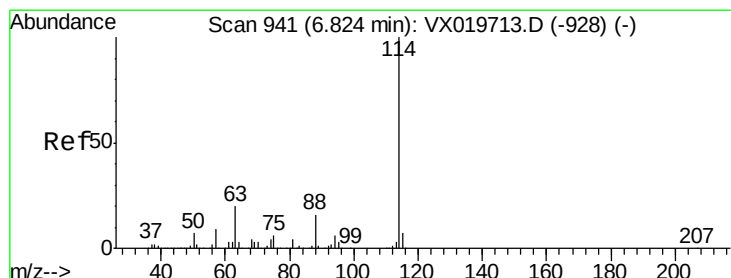
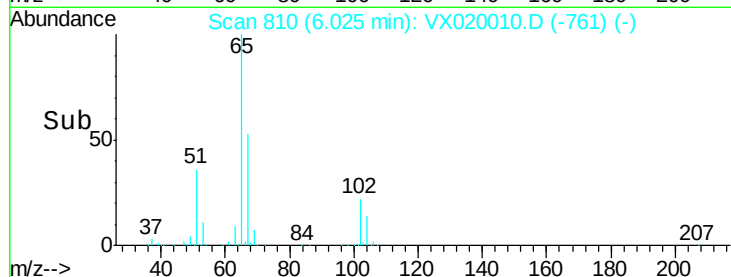
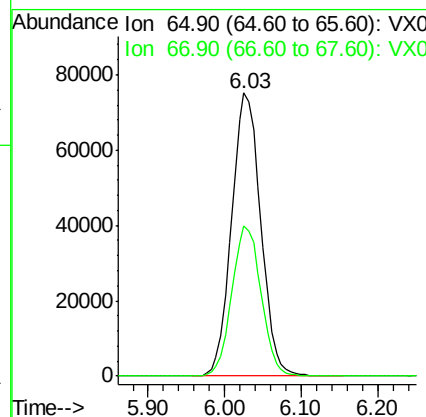
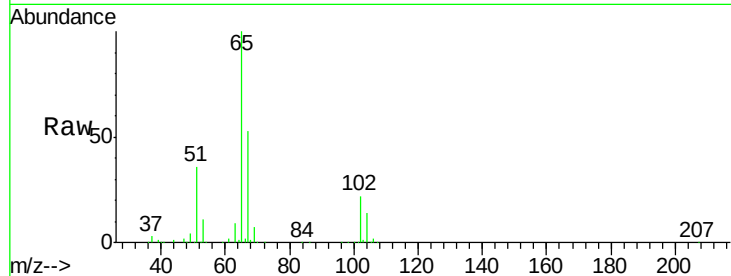




#33
 1,2-Dichloroethane-d4
 Concen: 47.851 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX020010.D
 Acq: 15 Dec 2020 14:38

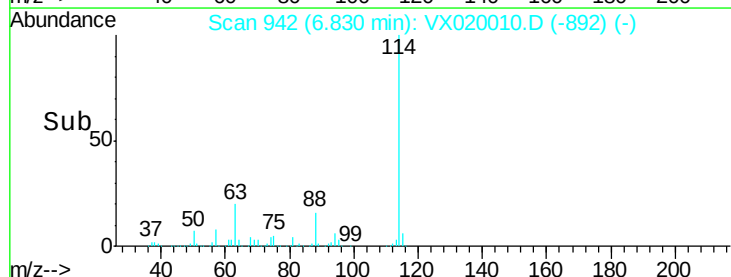
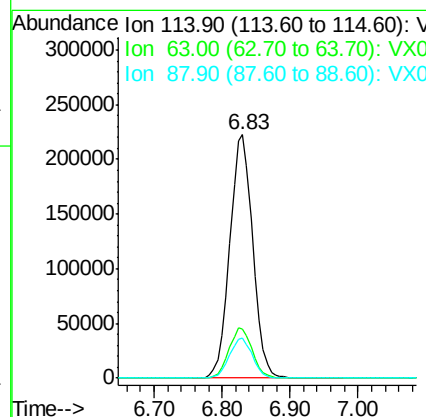
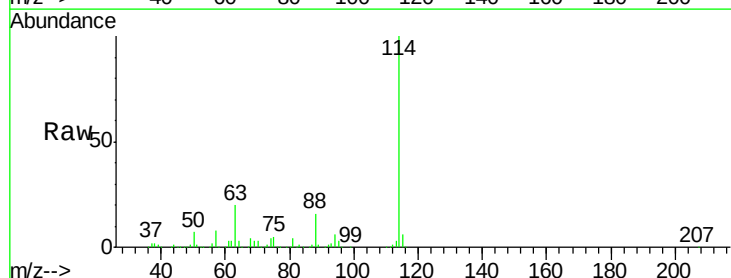
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5778-121020DL

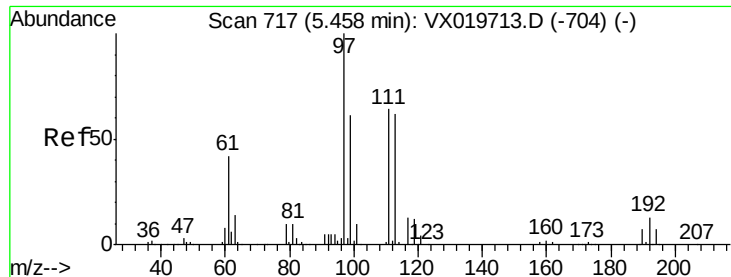
Tgt Ion: 65 Resp: 197887
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020010.D
 Acq: 15 Dec 2020 14:38

Tgt Ion: 114 Resp: 519730
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.8
 88 16.3 0.0 32.8

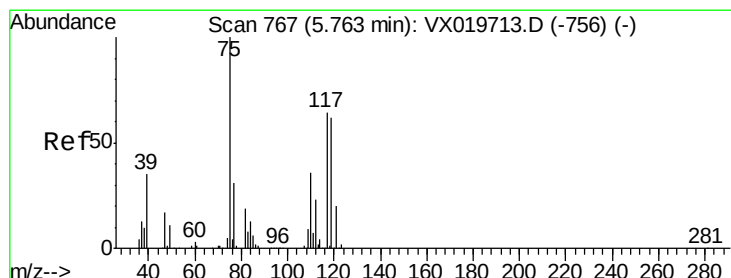
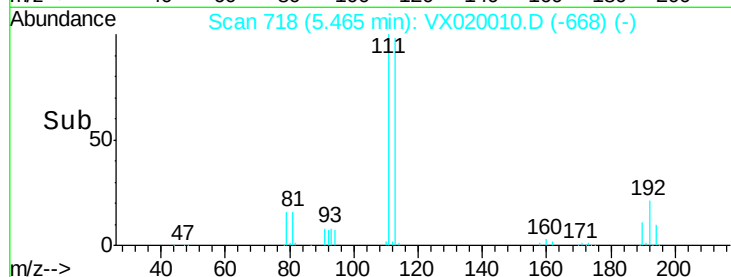
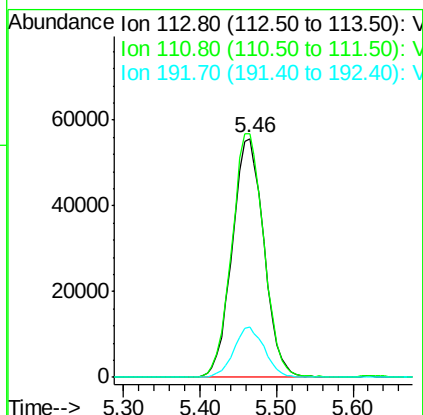
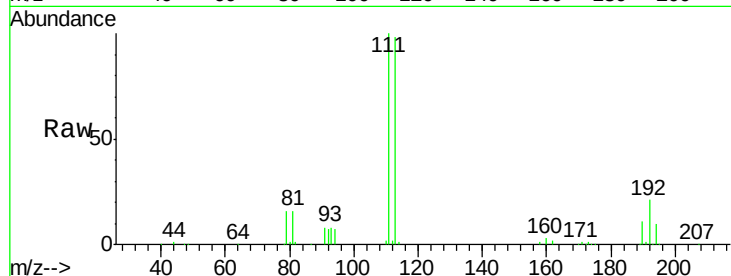




#35
 Dibromofluoromethane
 Concen: 47.702 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX020010.D
 Acq: 15 Dec 2020 14:38

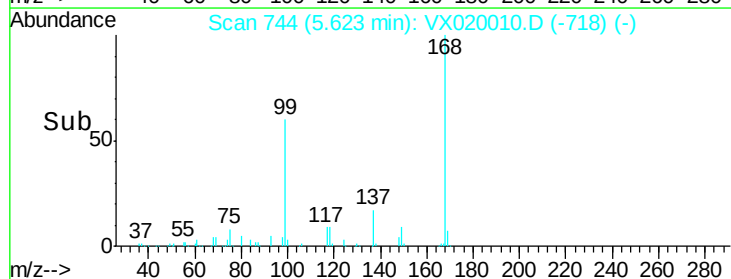
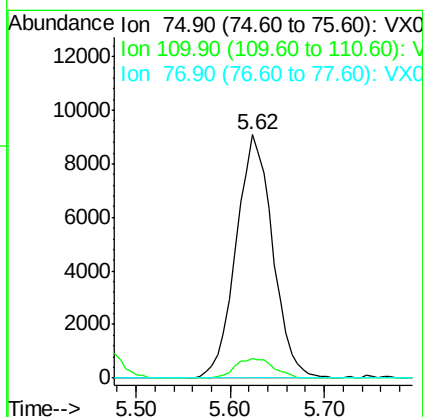
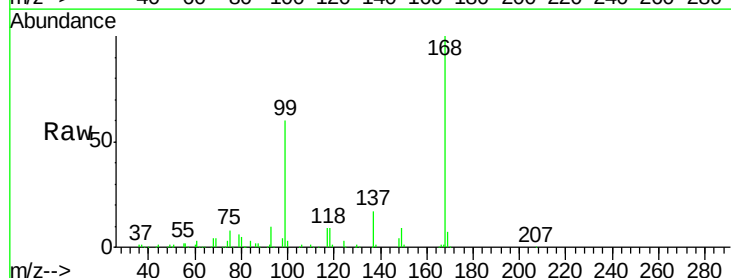
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5778-121020DL

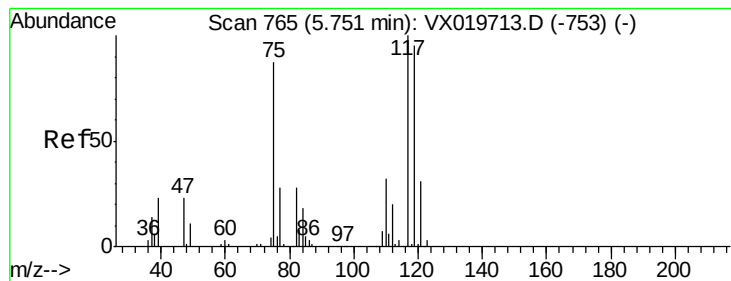
Tgt Ion:113 Resp: 160228
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.9 122.9
 192 20.4 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 5.262 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX020010.D
 Acq: 15 Dec 2020 14:38

Tgt Ion: 75 Resp: 24715
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.4#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.728 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5778-121020DL

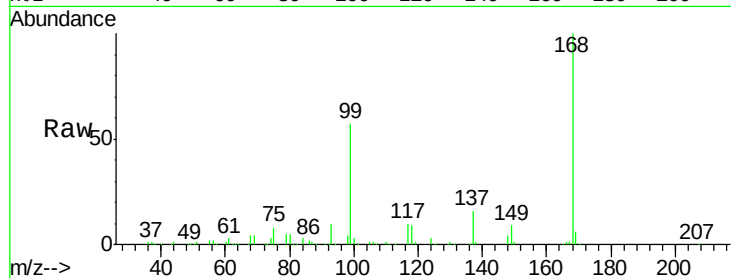
Tgt Ion:117 Resp: 30940

Ion Ratio Lower Upper

117 100

119 6.2 76.2 114.2#

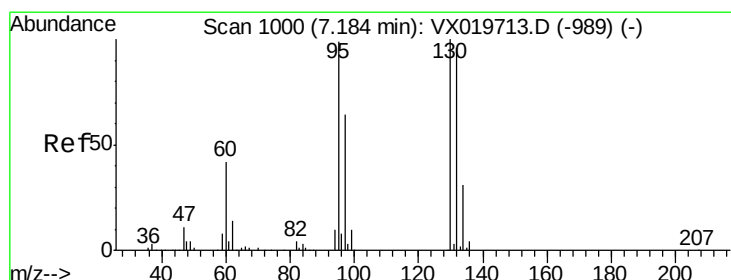
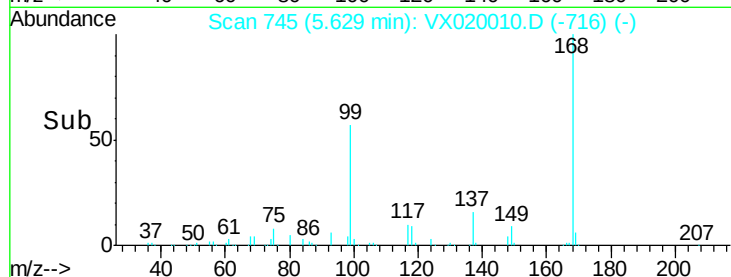
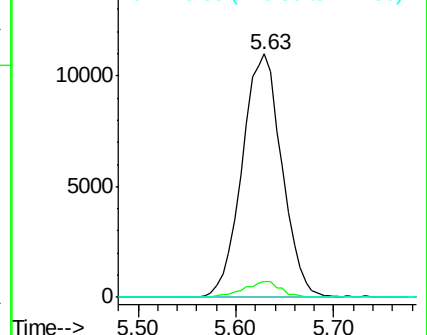
121 0.0 24.8 37.2#



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: 1.690 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX020010.D

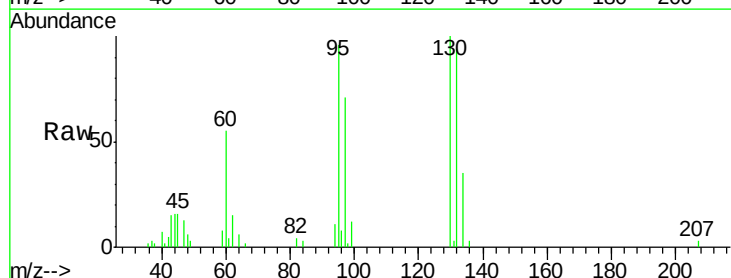
Acq: 15 Dec 2020 14:38

Tgt Ion:130 Resp: 6361

Ion Ratio Lower Upper

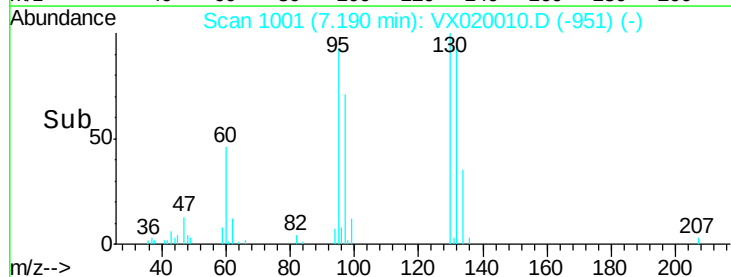
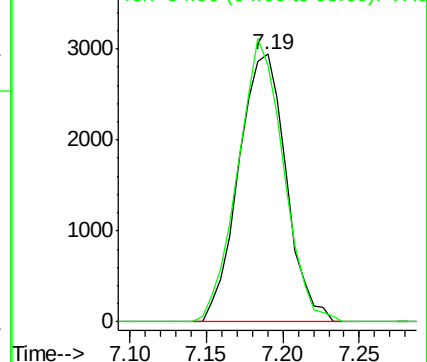
130 100

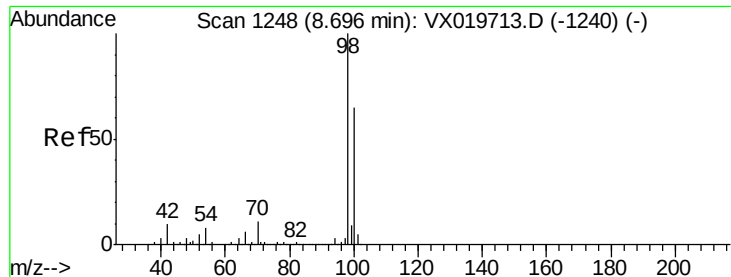
95 95.9 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.078 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

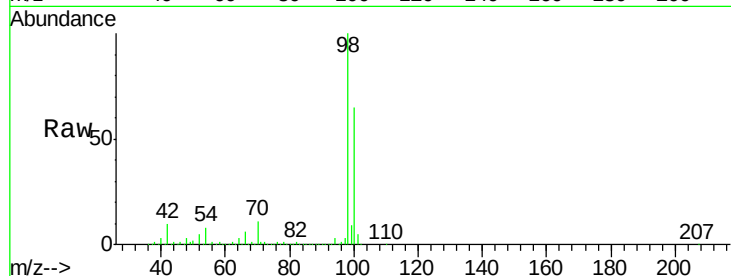
TU032-32-5778-121020DL

Tgt Ion: 98 Resp: 629358

Ion Ratio Lower Upper

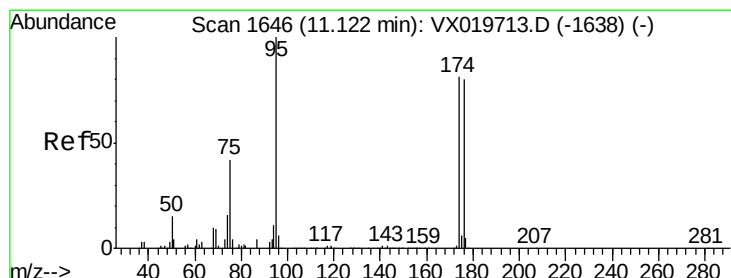
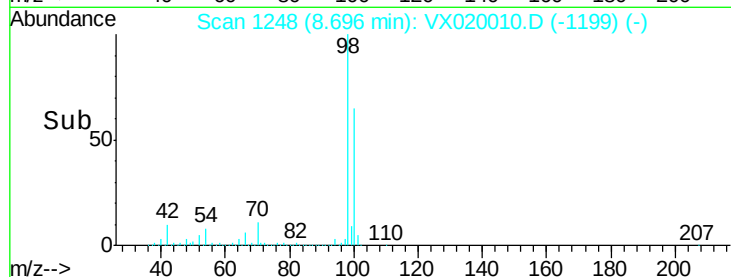
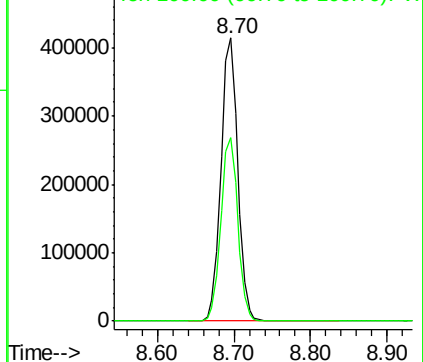
98 100

100 65.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.944 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

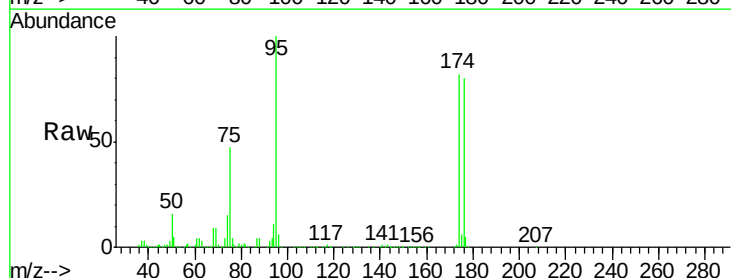
Tgt Ion: 95 Resp: 224243

Ion Ratio Lower Upper

95 100

174 77.0 0.0 154.6

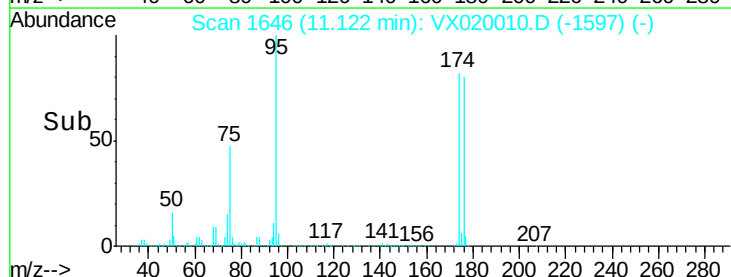
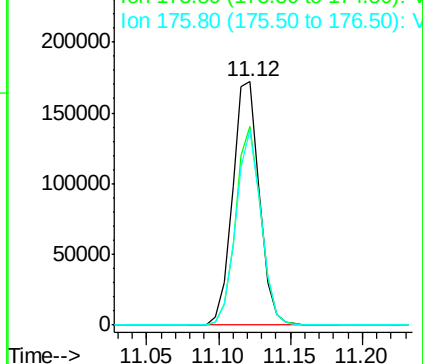
176 75.3 0.0 155.8

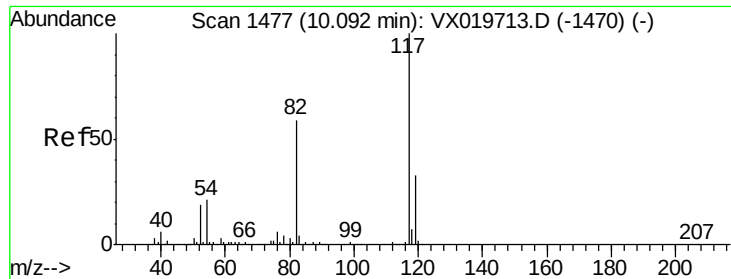


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

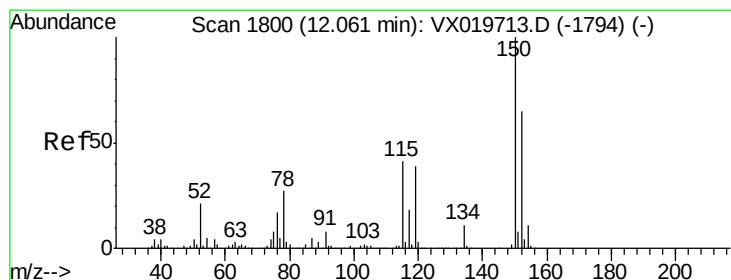
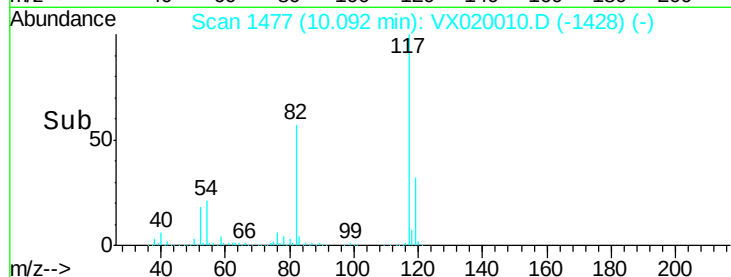
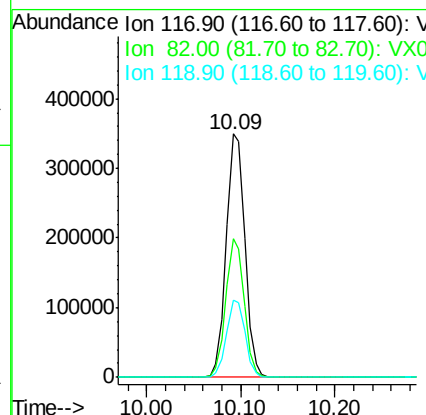
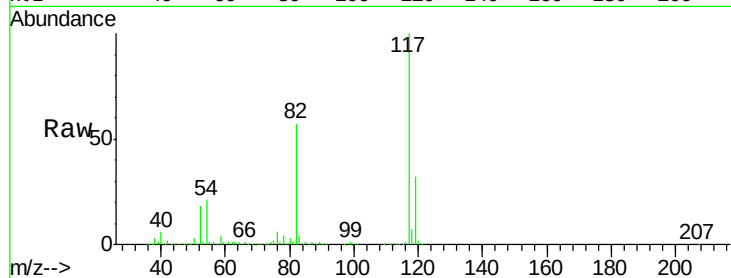




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX020010.D
Acq: 15 Dec 2020 14:38

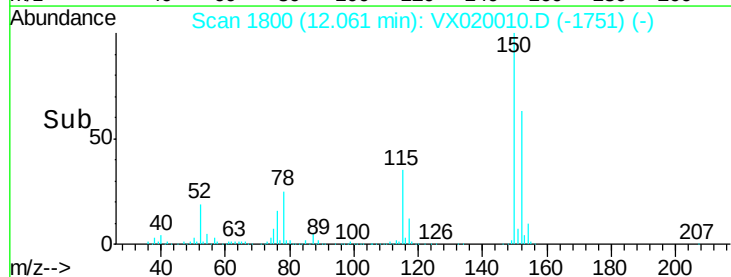
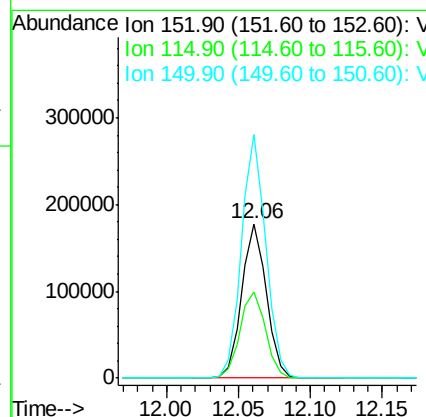
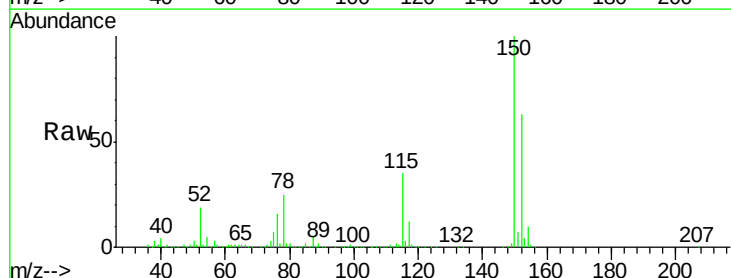
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5778-121020DL

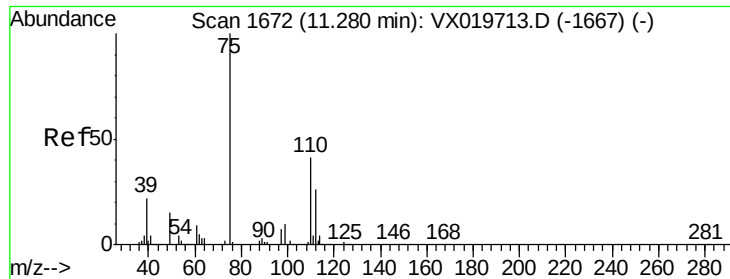
Tgt Ion:117 Resp: 480624
Ion Ratio Lower Upper
117 100
82 57.2 47.4 71.2
119 31.7 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX020010.D
Acq: 15 Dec 2020 14:38

Tgt Ion:152 Resp: 211872
Ion Ratio Lower Upper
152 100
115 58.2 41.1 123.3
150 156.3 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 22.413 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

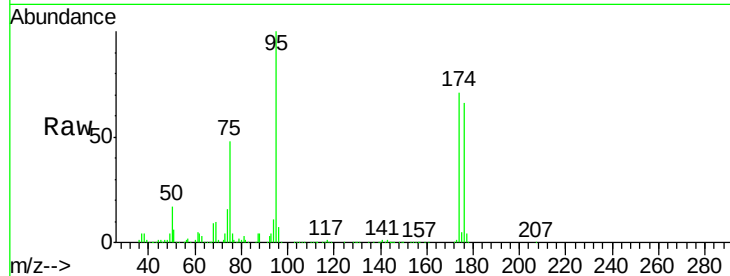
TU032-32-5778-121020DL

Tgt Ion: 75 Resp: 106506

Ion Ratio Lower Upper

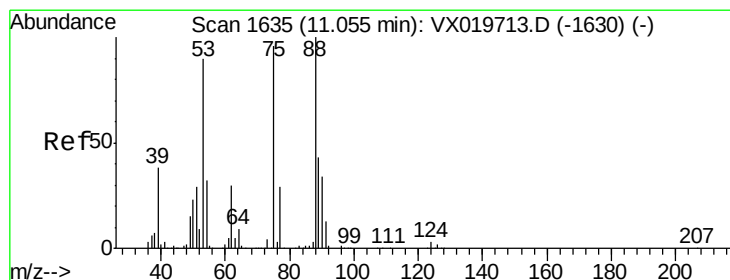
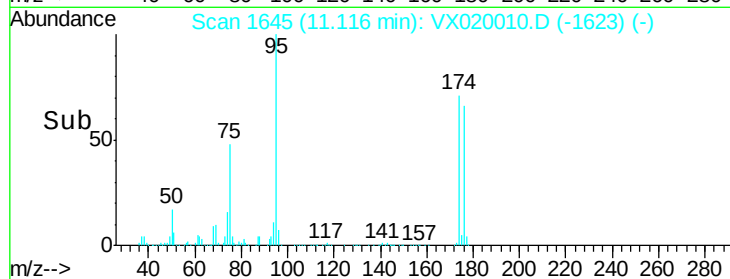
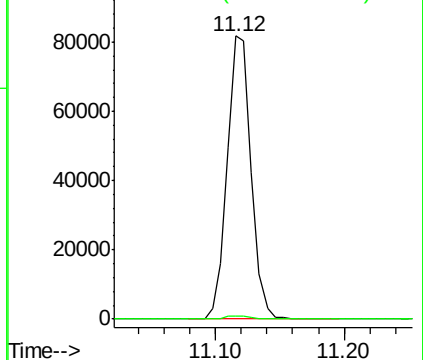
75 100

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: 64.793 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020010.D

Acq: 15 Dec 2020 14:38

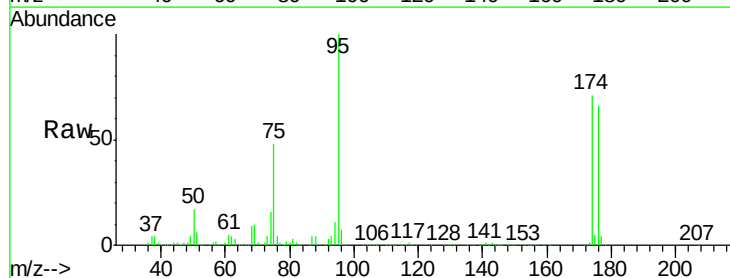
Tgt Ion: 75 Resp: 106506

Ion Ratio Lower Upper

75 100

53 0.2 74.5 111.7#

89 0.0 37.9 56.9#



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

