

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020012.D
 Acq On : 15 Dec 2020 15:25
 Operator : JC/MD
 Sample : L5052-01DL 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5229-121020DL

Quant Time: Dec 16 00:25:09 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	308669	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	516177	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	476664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	215434	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	196387	48.41	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.82%	
35) Dibromofluoromethane		5.46	113	159392	47.78	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.56%	
50) Toluene-d8		8.70	98	620676	48.73	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.46%	
62) 4-Bromofluorobenzene		11.12	95	224295	46.27	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.54%	

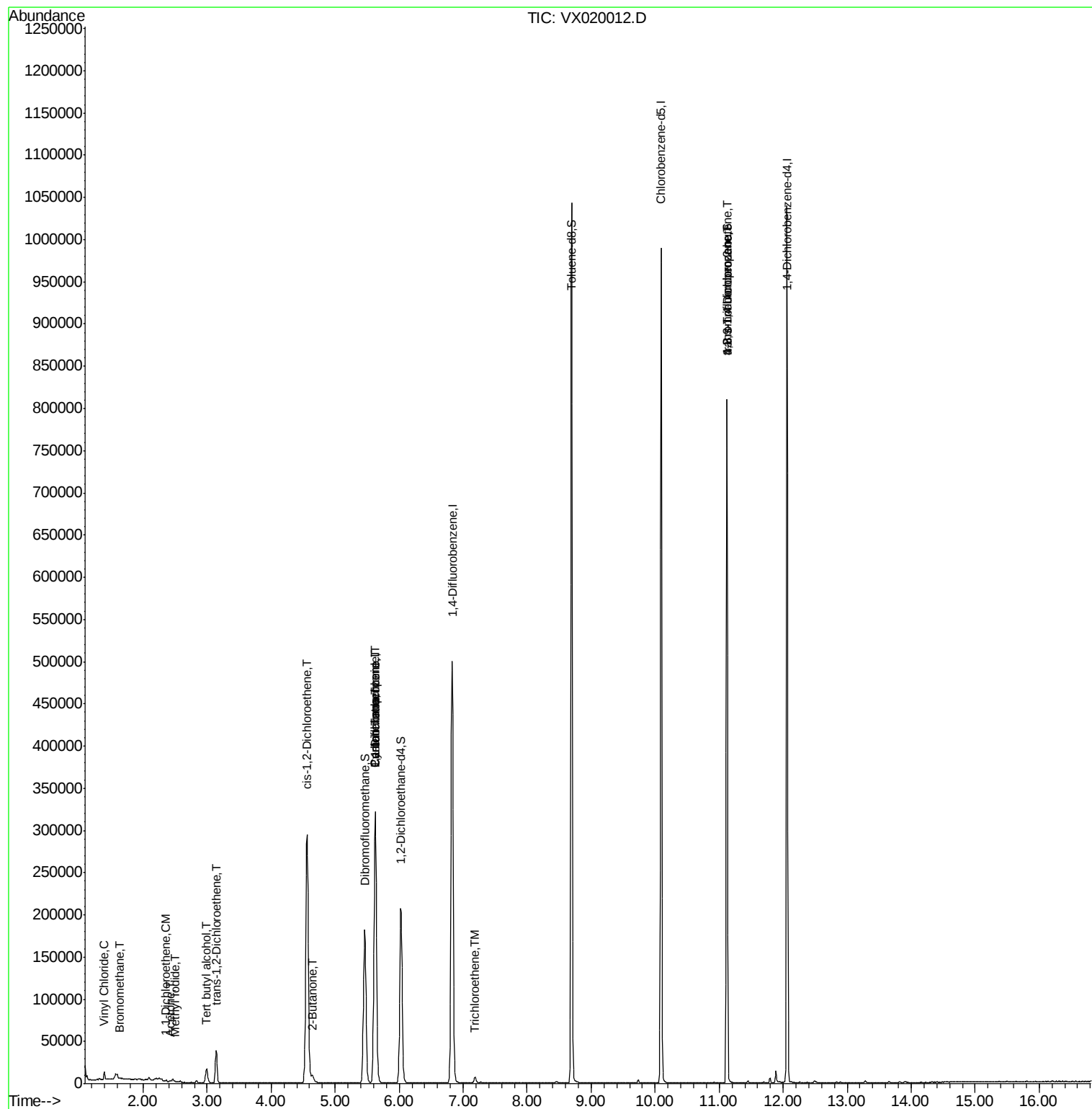
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	5399	1.541	ug/l	98
5) Bromomethane	1.63	94	726	0.624	ug/l	100
10) Methyl Iodide	2.50	142	1044	0.253	ug/l	97
11) Tert butyl alcohol	2.99	59	9978	9.449	ug/l #	76
12) 1,1-Dichloroethene	2.35	96	631	0.223	ug/l #	87
16) Acetone	2.42	43	1363	0.894	ug/l	98
20) Methylene Chloride	2.83	84	945	Below Cal		96
21) trans-1,2-Dichloroethene	3.14	96	16077	4.876	ug/l	98
25) 2-Butanone	4.65	43	1794	0.766	ug/l #	87
27) cis-1,2-Dichloroethene	4.56	96	196652	50.966	ug/l	89
31) Cyclohexane	5.62	56	6043	1.197	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23865	5.116	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30297	6.633	ug/l #	17
44) Trichloroethene	7.19	130	2307	0.617	ug/l	90
76) 1,2,3-Trichloropropane	11.12	75	108647	22.486	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108647	65.002	ug/l #	12

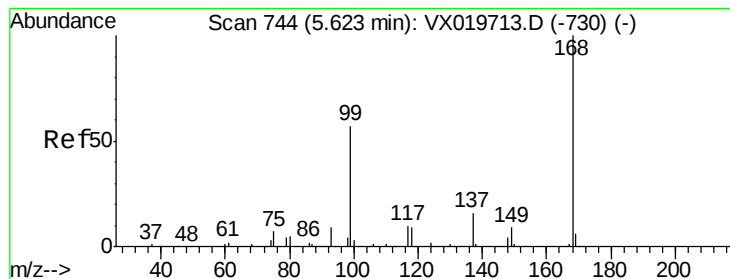
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TU032-32-5229-121020DL

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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: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

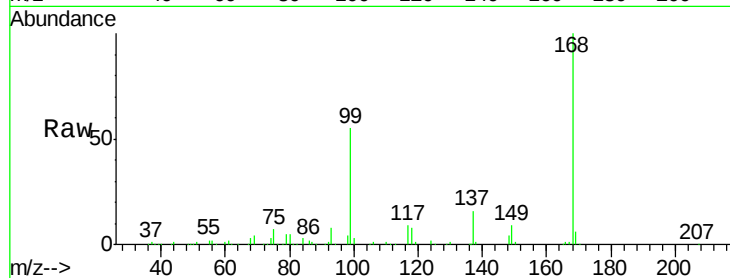
TU032-32-5229-121020DL

Tgt Ion:168 Resp: 308669

Ion Ratio Lower Upper

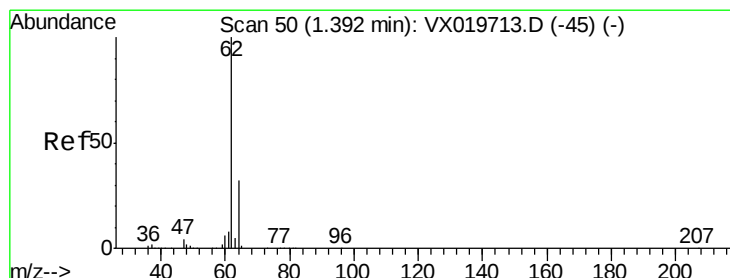
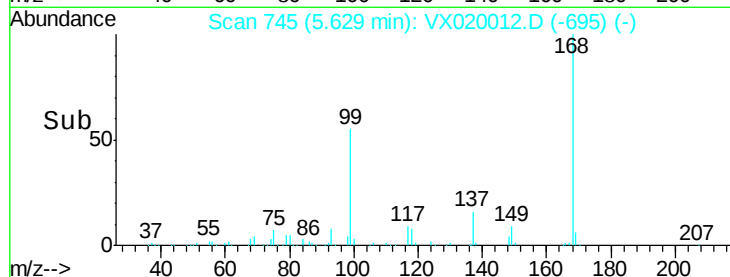
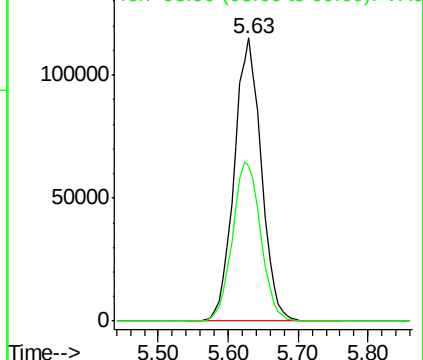
168 100

99 55.1 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: 1.541 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX020012.D

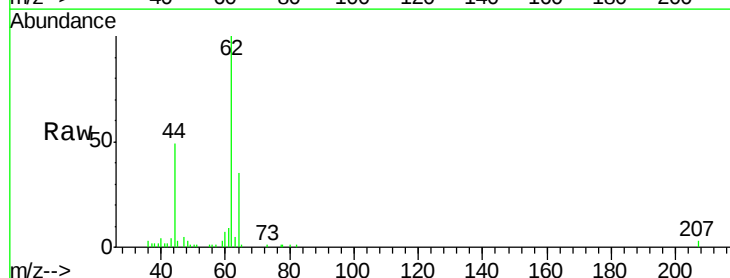
Acq: 15 Dec 2020 15:25

Tgt Ion: 62 Resp: 5399

Ion Ratio Lower Upper

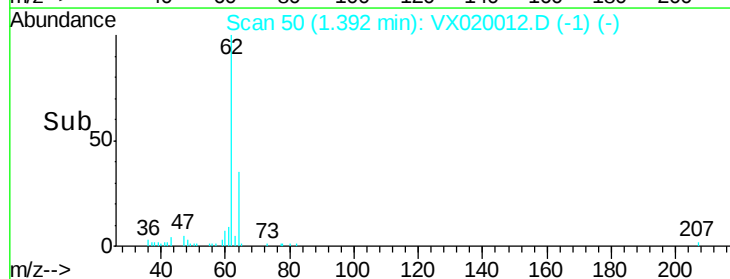
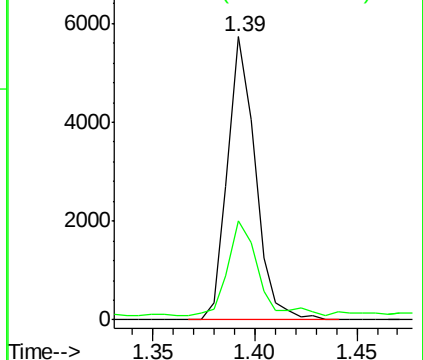
62 100

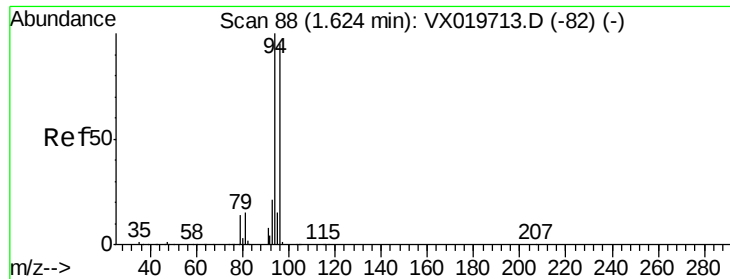
64 33.3 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.624 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

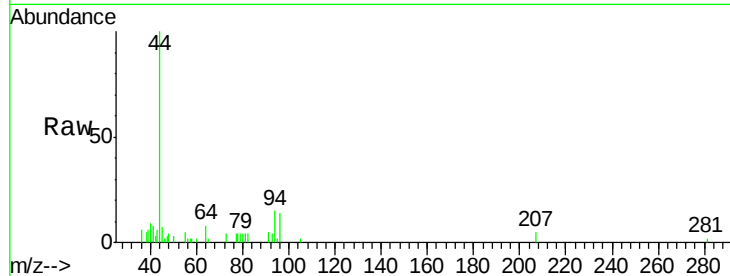
TU032-32-5229-121020DL

Tgt Ion: 94 Resp: 726

Ion Ratio Lower Upper

94 100

96 95.2 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

300

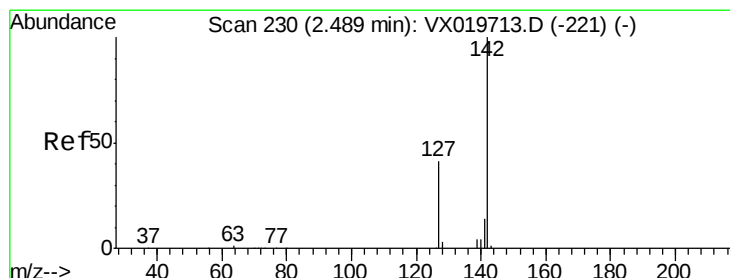
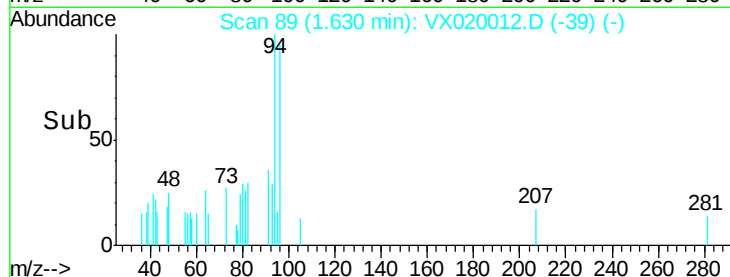
200

100

0

1.60 1.65 1.70

Time-->



#10

Methyl Iodide

Concen: 0.253 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

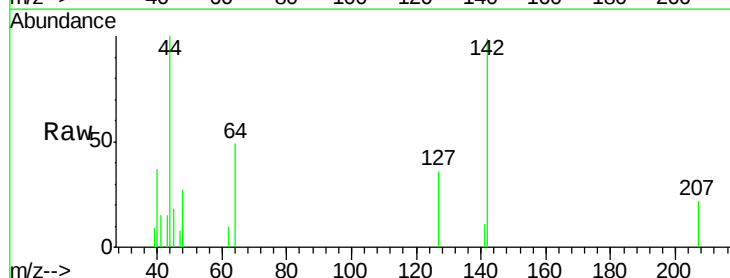
Tgt Ion: 142 Resp: 1044

Ion Ratio Lower Upper

142 100

127 40.1 33.3 49.9

141 11.4 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

800

600

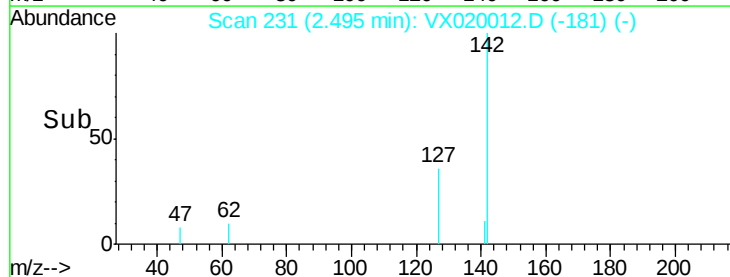
400

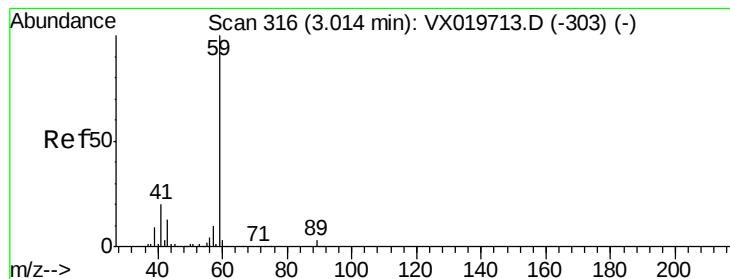
200

0

2.45 2.50 2.55

Time-->





#11

Tert butyl alcohol

Concen: 9.449 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

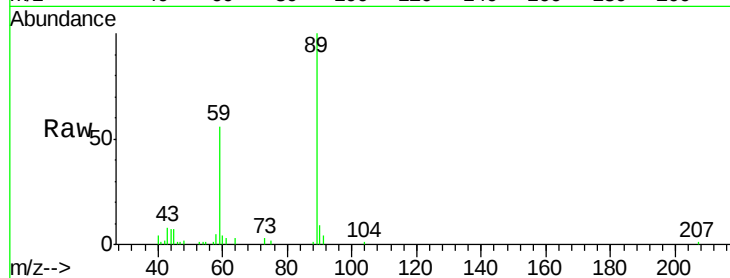
TU032-32-5229-121020DL

Tgt Ion: 59 Resp: 9978

Ion Ratio Lower Upper

59 100

57 1.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

5000

4000

3000

2000

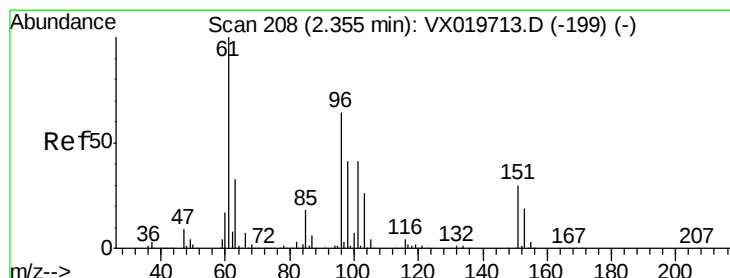
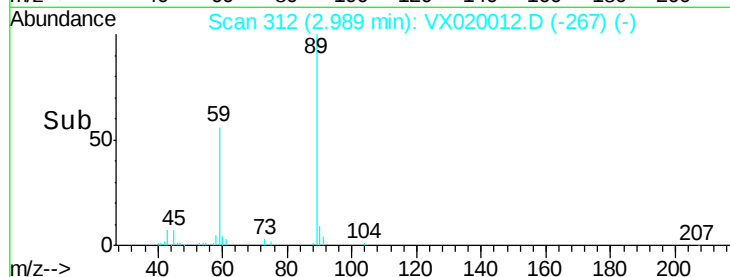
1000

0

Time-->

2.90 2.95 3.00 3.05 3.10

2.99



#12

1,1-Dichloroethene

Concen: 0.223 ug/l

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

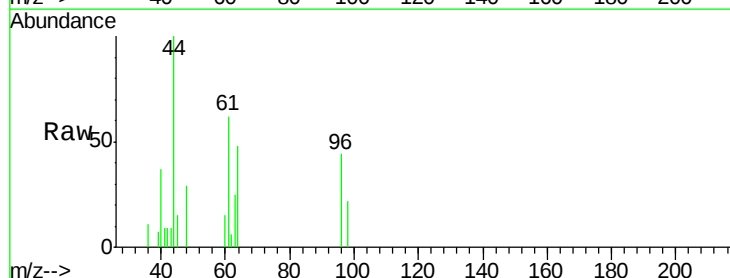
Tgt Ion: 96 Resp: 631

Ion Ratio Lower Upper

96 100

61 141.9 124.6 187.0

98 50.0 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

800

600

400

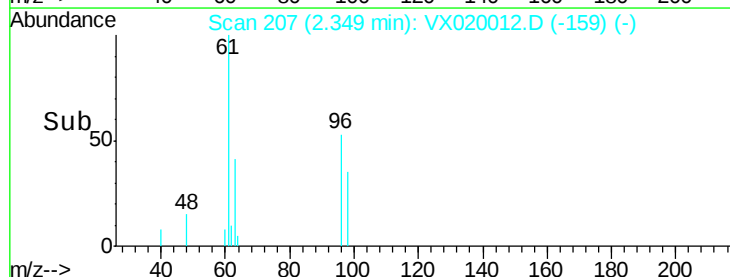
200

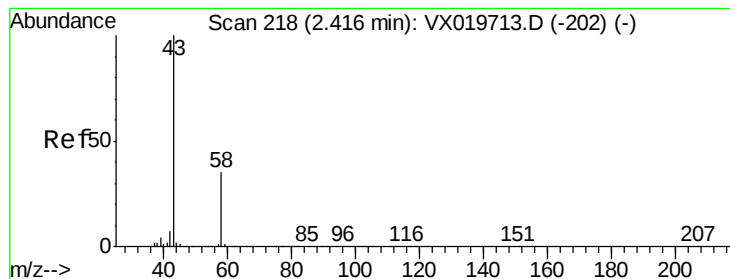
0

Time-->

2.30 2.35 2.40

2.35





#16

Acetone

Concen: 0.894 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

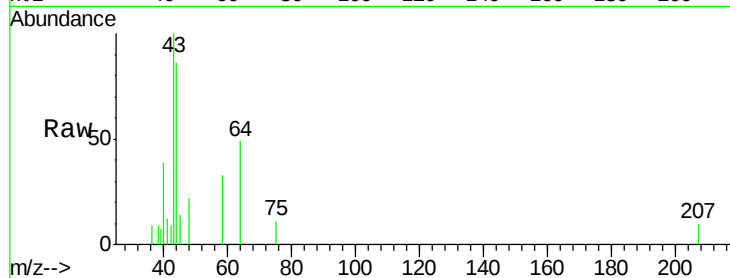
TU032-32-5229-121020DL

Tgt Ion: 43 Resp: 1363

Ion Ratio Lower Upper

43 100

58 35.9 27.8 41.8



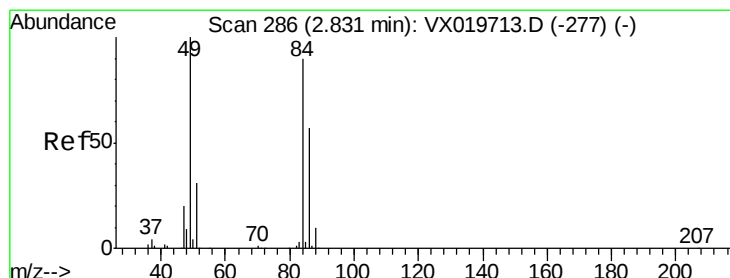
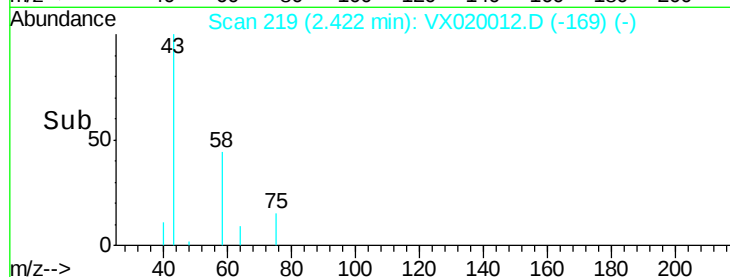
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Time-->

2.35 2.40 2.45

2.42



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Tgt Ion: 84 Resp: 945

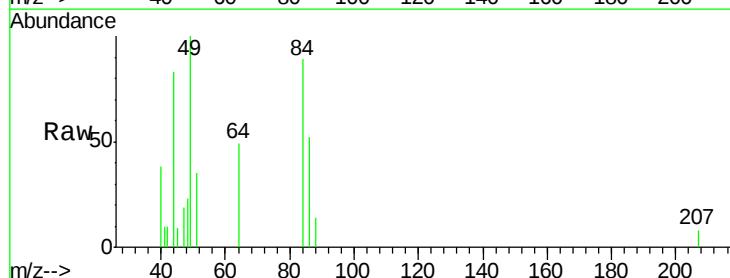
Ion Ratio Lower Upper

84 100

49 112.1 88.6 132.8

51 39.1 27.0 40.6

86 58.8 50.3 75.5



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

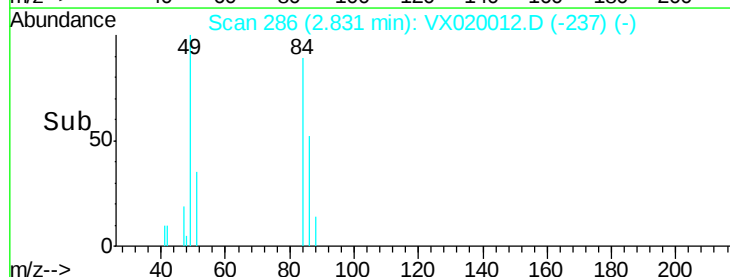
Ion 50.90 (50.60 to 51.60): VX0

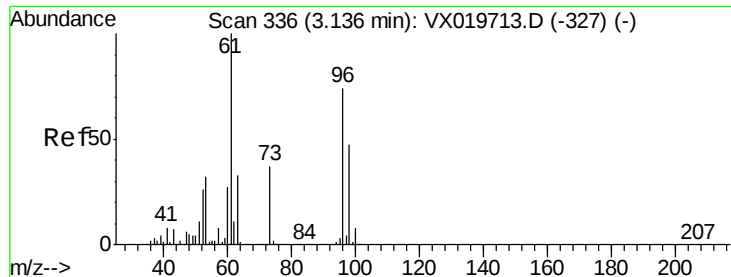
Ion 85.90 (85.60 to 86.60): VX0

Time-->

2.80 2.85

2.83





#21

trans-1,2-Dichloroethene

Concen: 4.876 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5229-121020DL

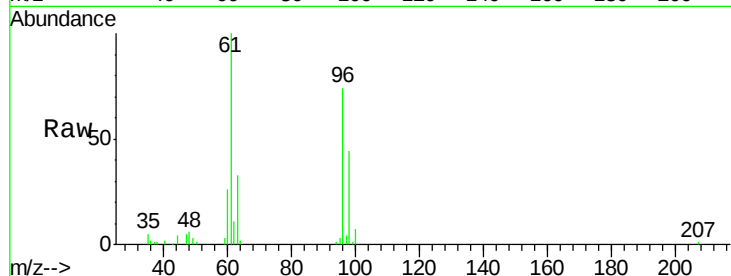
Tgt Ion: 96 Resp: 16077

Ion Ratio Lower Upper

96 100

61 135.3 107.7 161.5

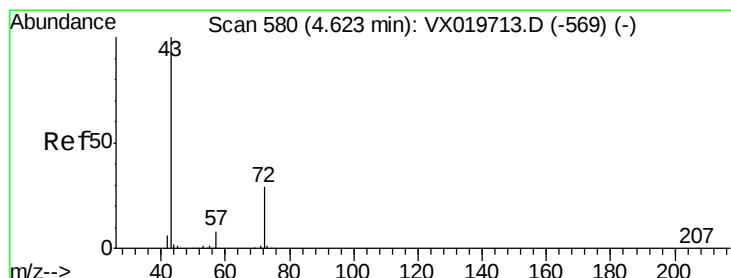
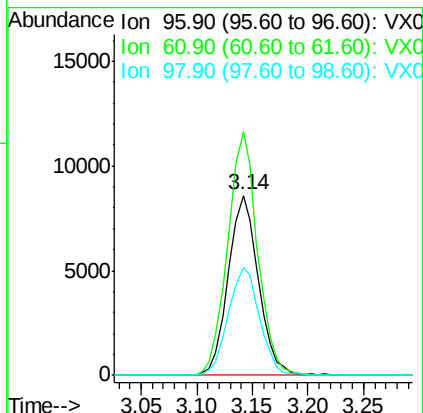
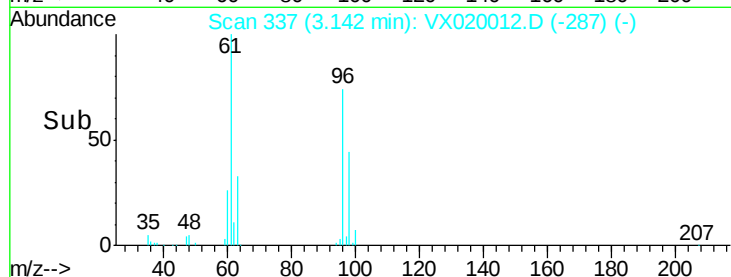
98 59.9 50.4 75.6



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: 0.766 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX020012.D

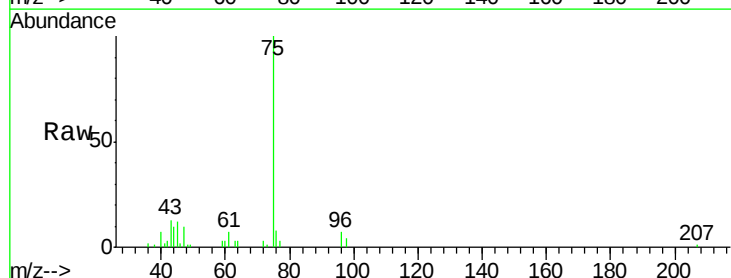
Acq: 15 Dec 2020 15:25

Tgt Ion: 43 Resp: 1794

Ion Ratio Lower Upper

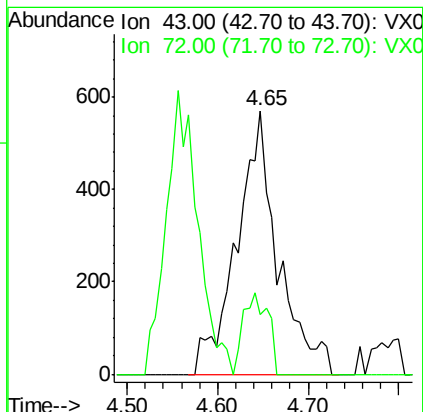
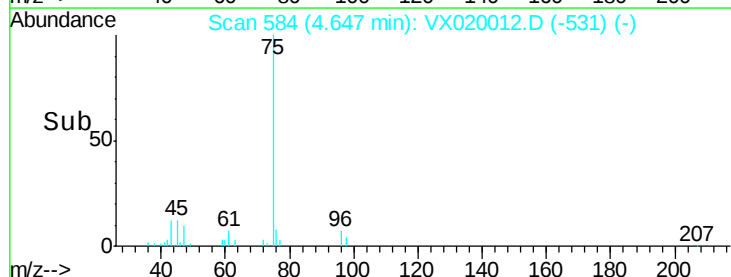
43 100

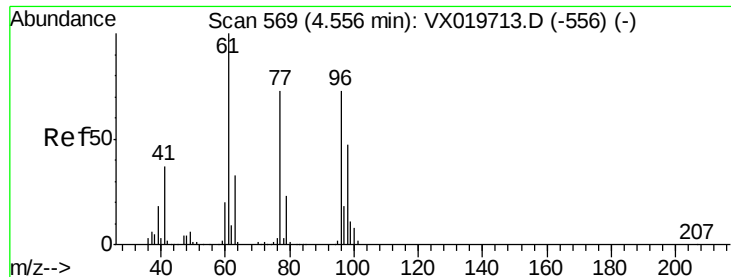
72 22.4 23.7 35.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



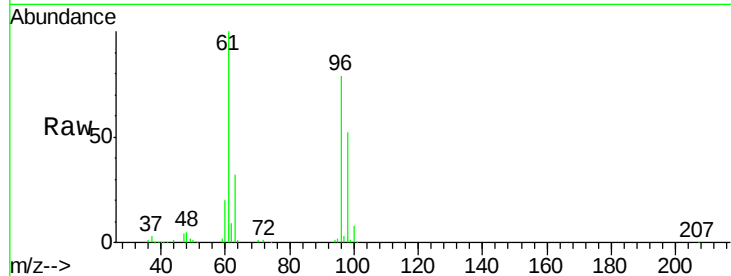


#27

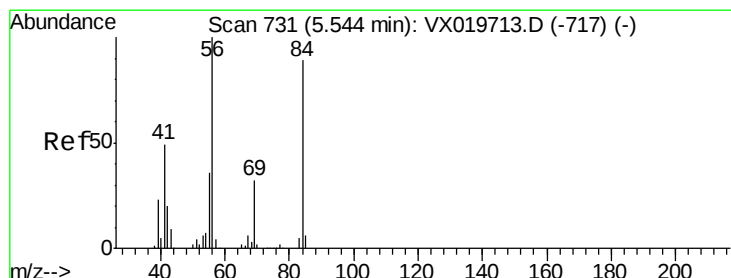
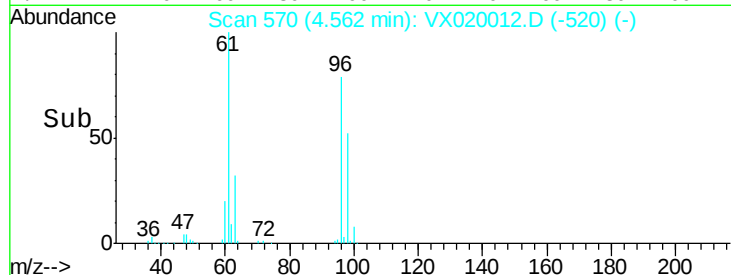
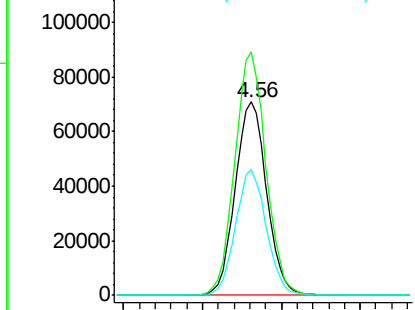
cis-1,2-Dichloroethene
 Concen: 50.966 ug/l
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX020012.D
 Acq: 15 Dec 2020 15:25

Instrument :
 MSVOA_X
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 TU032-32-5229-121020DL

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.5	0.0	285.6
98	63.9	0.0	129.6



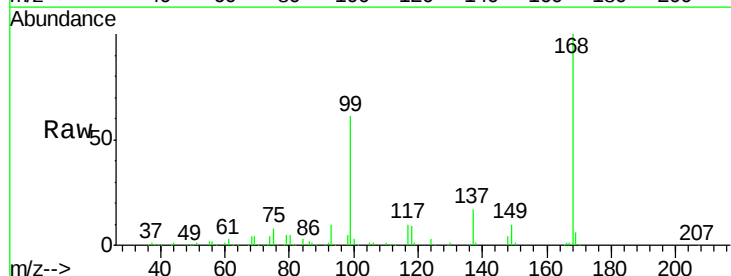
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



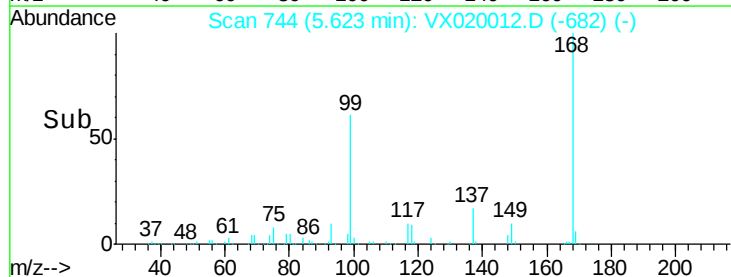
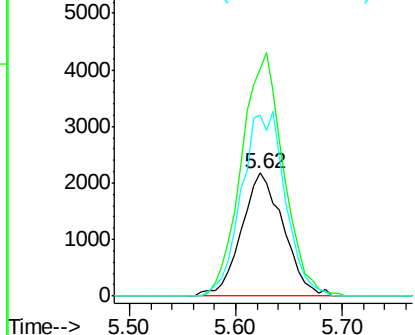
#31

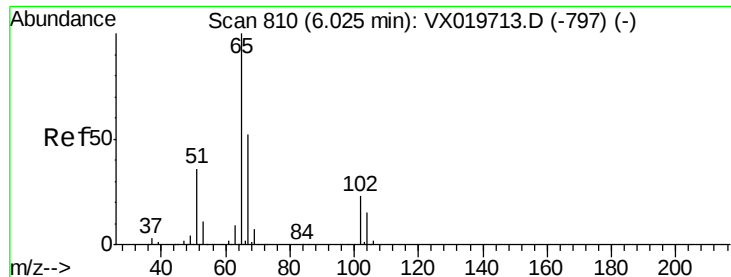
Cyclohexane
 Concen: 1.197 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. 0.08 min
 Lab File: VX020012.D
 Acq: 15 Dec 2020 15:25

Tgt Ion	Ratio	Lower	Upper
56	100		
69	184.2	25.3	37.9#
84	146.9	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

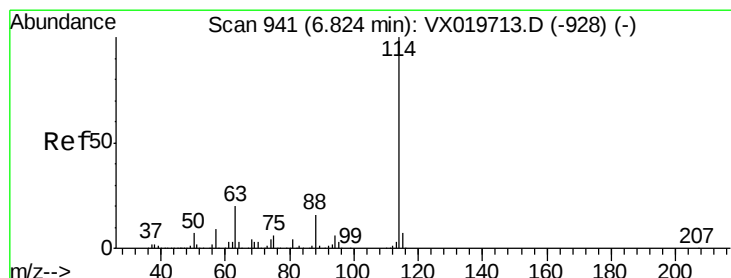
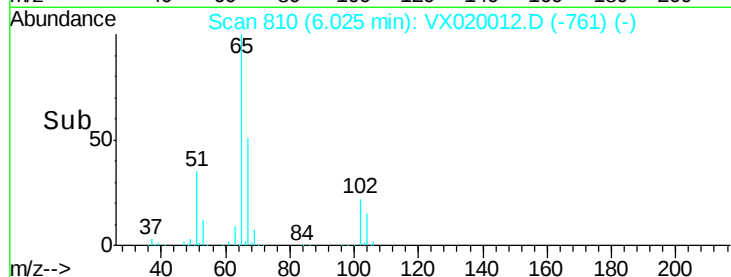
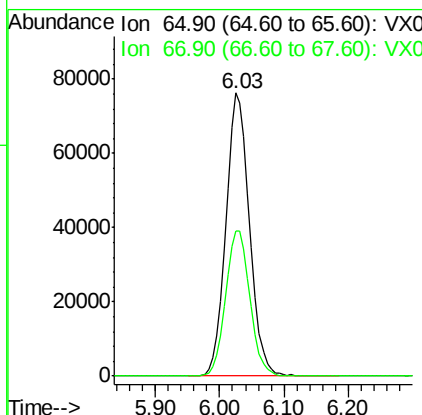
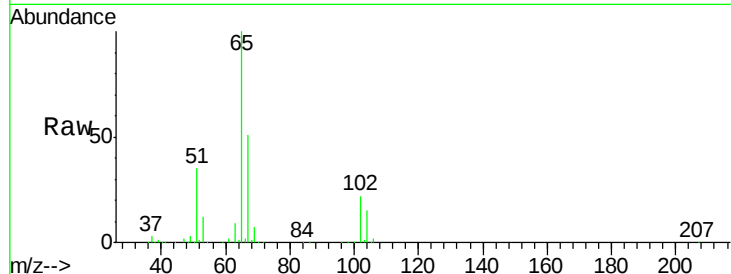




#33
 1,2-Dichloroethane-d4
 Concen: 48.409 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX020012.D
 Acq: 15 Dec 2020 15:25

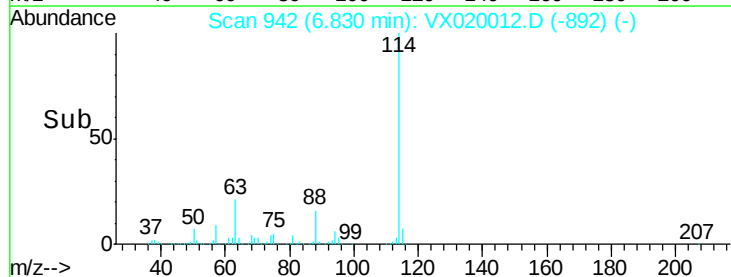
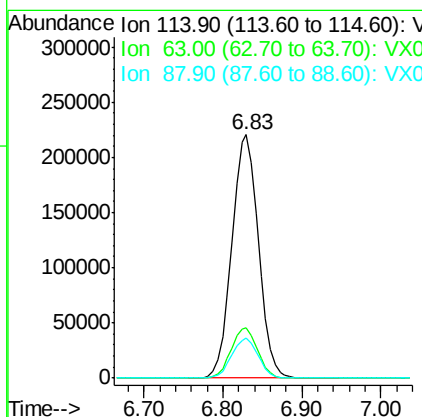
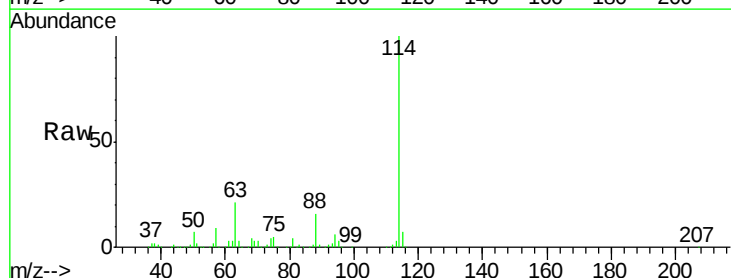
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5229-121020DL

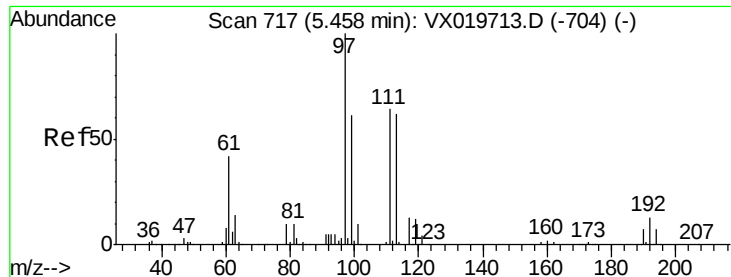
Tgt Ion: 65 Resp: 196387
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020012.D
 Acq: 15 Dec 2020 15:25

Tgt Ion: 114 Resp: 516177
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.780 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5229-121020DL

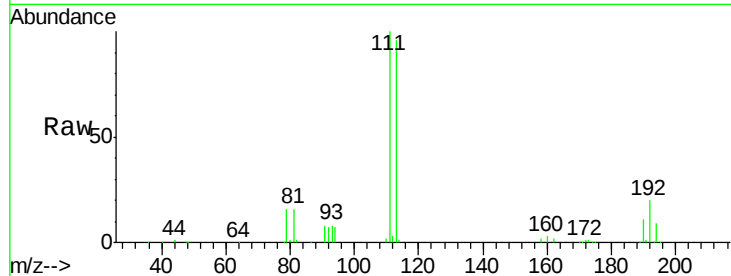
Tgt Ion:113 Resp: 159392

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

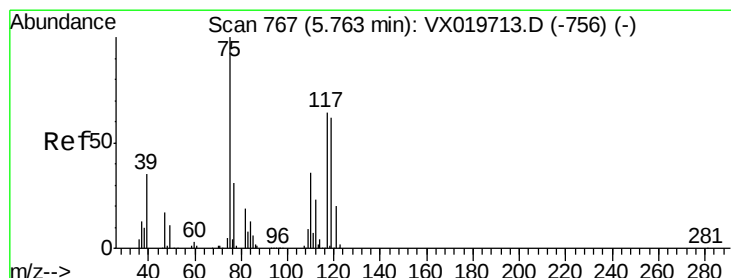
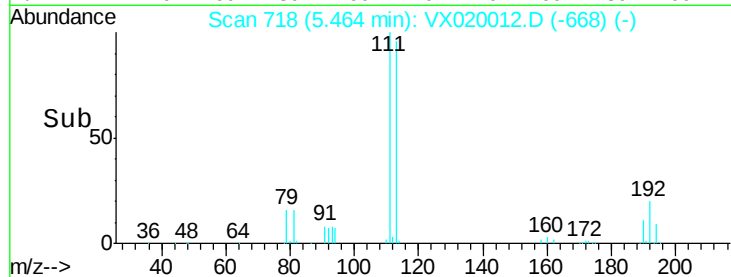
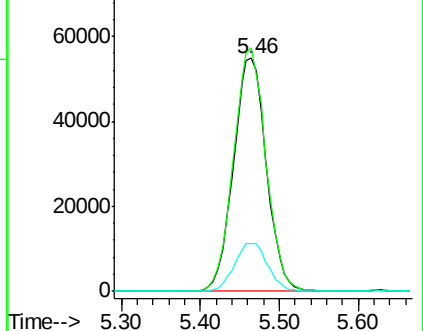
192 20.8 16.7 25.1



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: 5.116 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

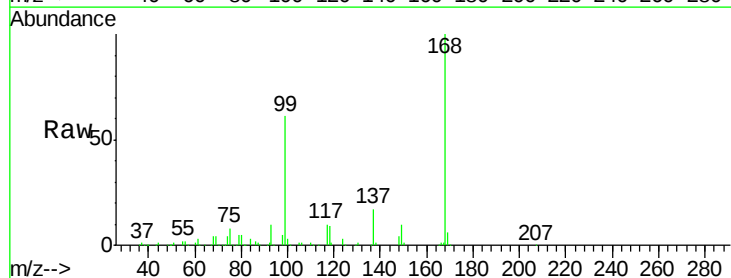
Tgt Ion: 75 Resp: 23865

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

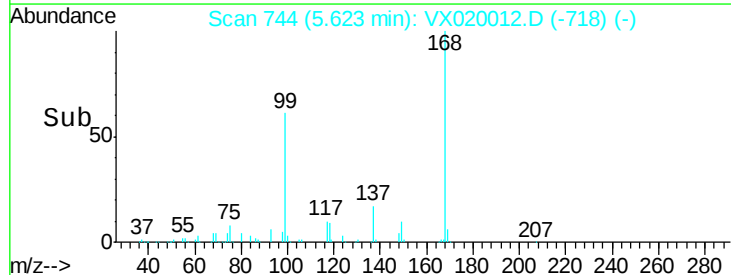
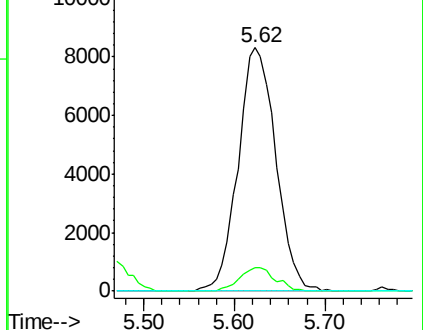
77 0.0 25.3 37.9#

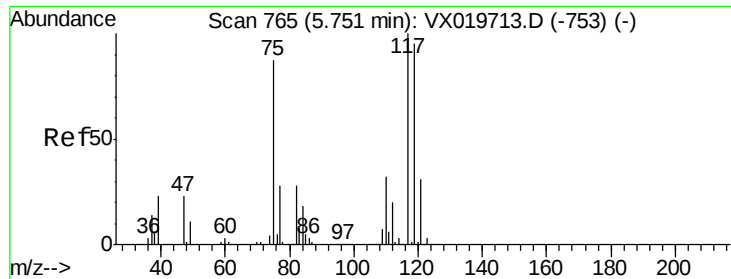


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.633 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5229-121020DL

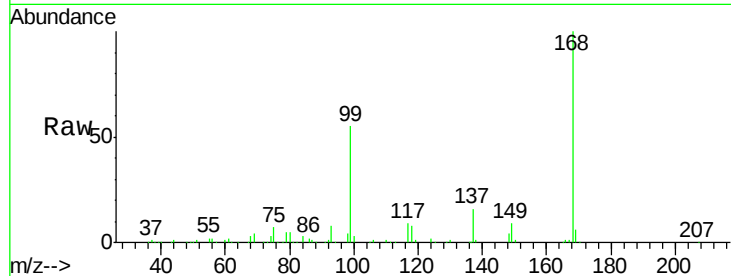
Tgt Ion:117 Resp: 30297

Ion Ratio Lower Upper

117 100

119 5.7 76.2 114.2#

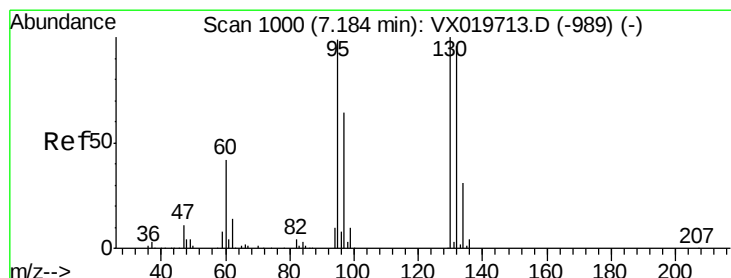
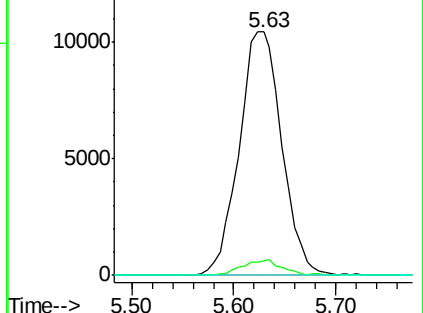
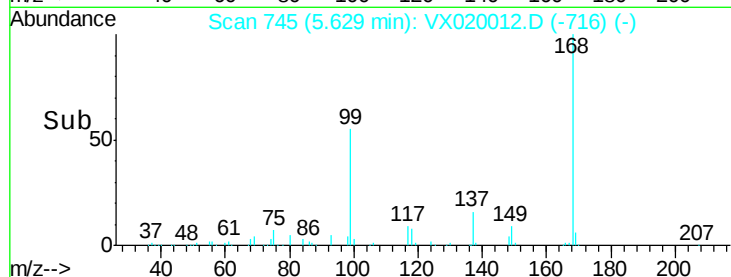
121 0.0 24.8 37.2#



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: 0.617 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX020012.D

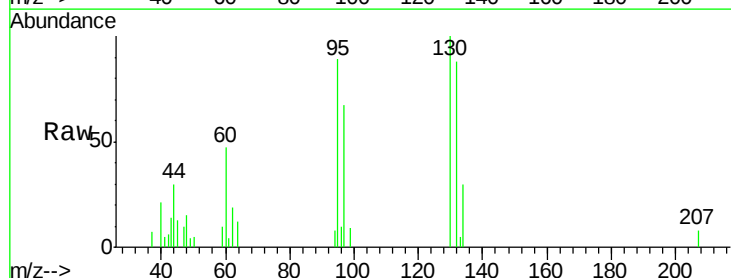
Acq: 15 Dec 2020 15:25

Tgt Ion:130 Resp: 2307

Ion Ratio Lower Upper

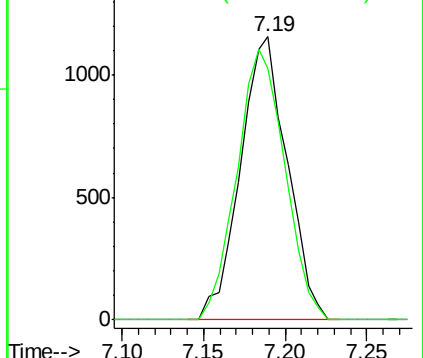
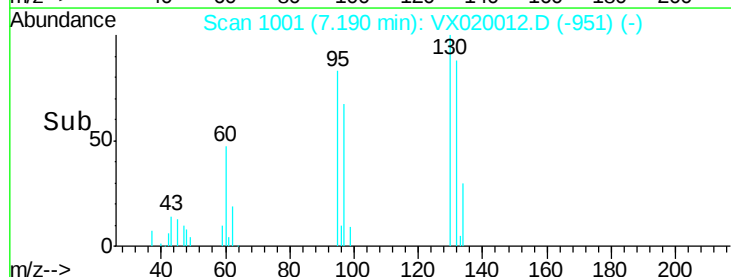
130 100

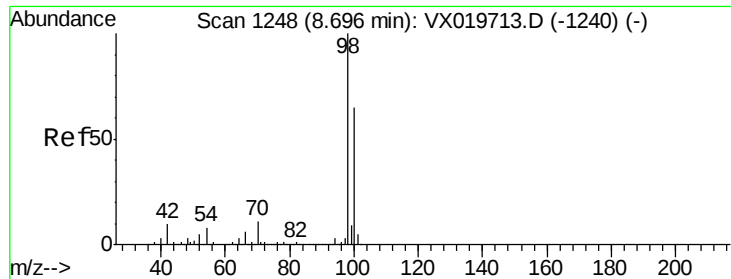
95 88.7 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

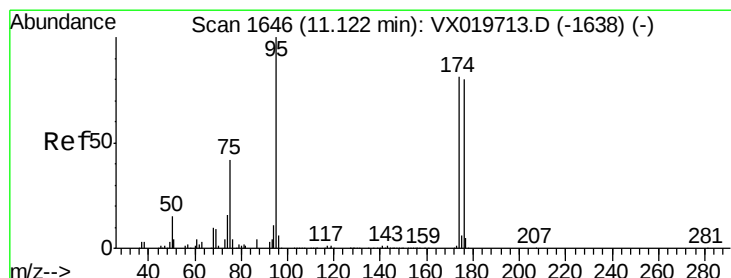
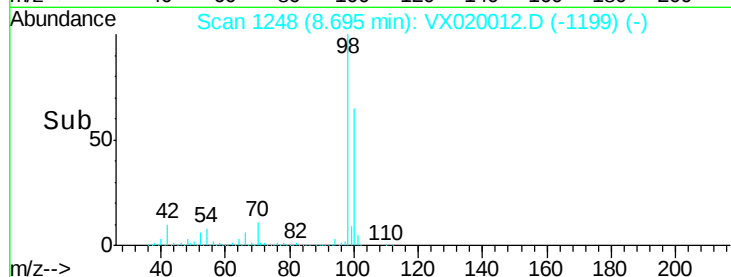
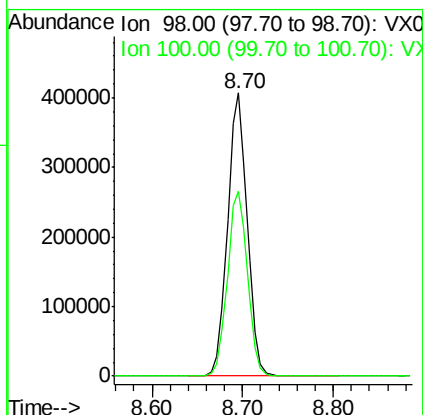
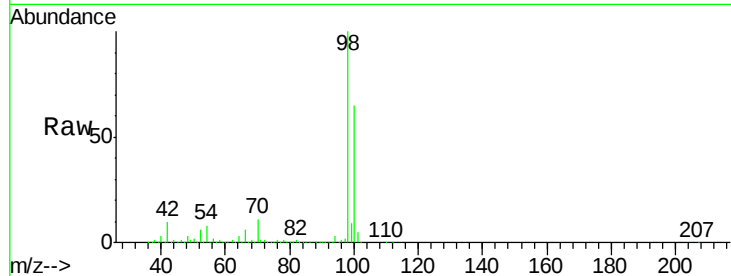




#50
Toluene-d8
Concen: 48.734 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX020012.D
Acq: 15 Dec 2020 15:25

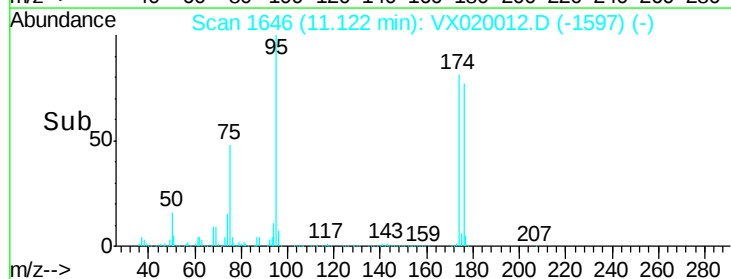
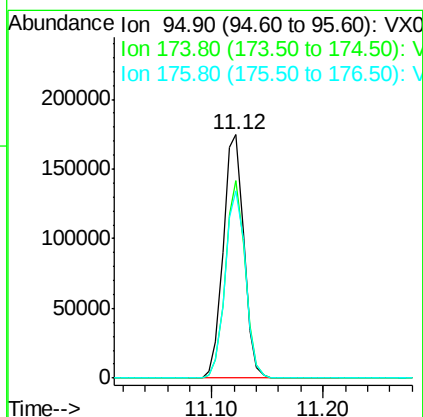
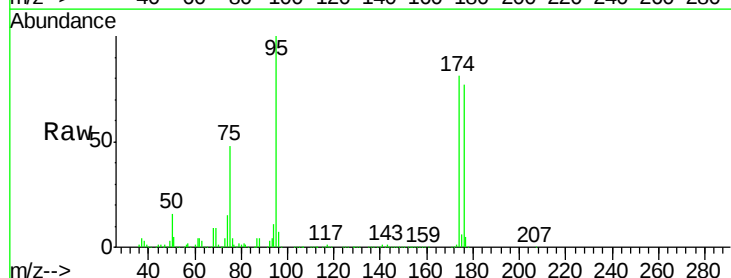
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5229-121020DL

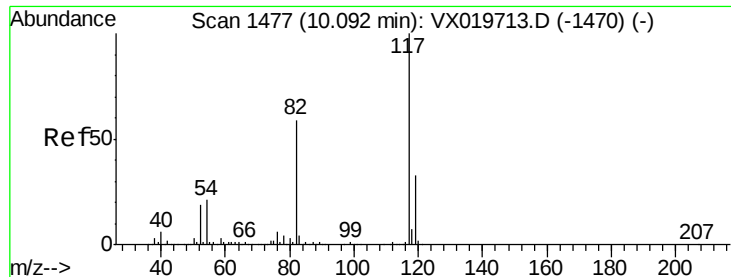
Tgt Ion: 98 Resp: 620676
Ion Ratio Lower Upper
98 100
100 66.6 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 46.271 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX020012.D
Acq: 15 Dec 2020 15:25

Tgt Ion: 95 Resp: 224295
Ion Ratio Lower Upper
95 100
174 77.4 0.0 154.6
176 75.8 0.0 155.8

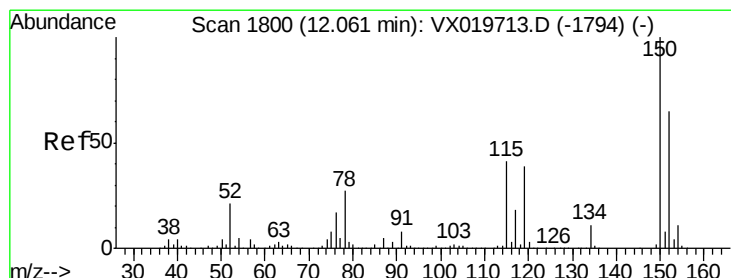
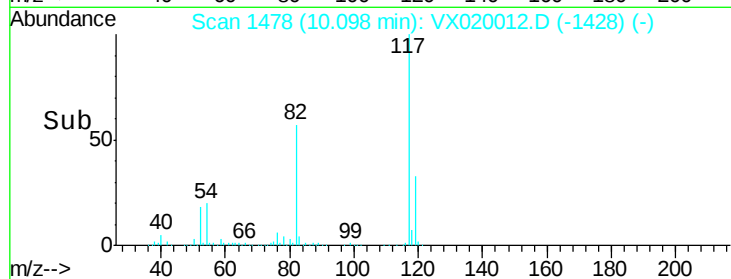
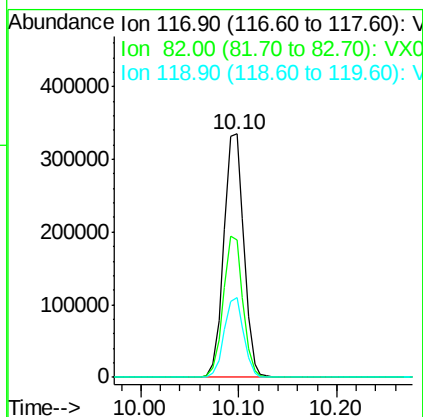
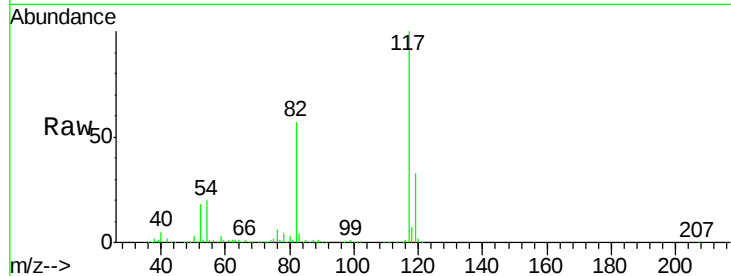




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX020012.D
Acq: 15 Dec 2020 15:25

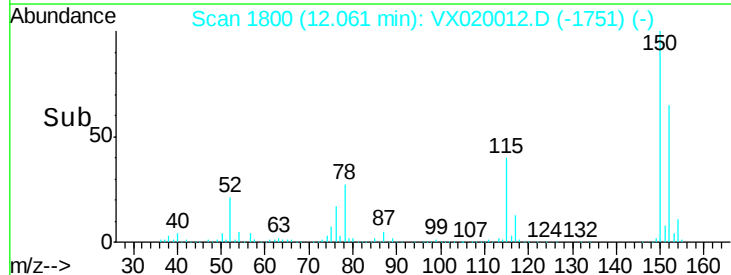
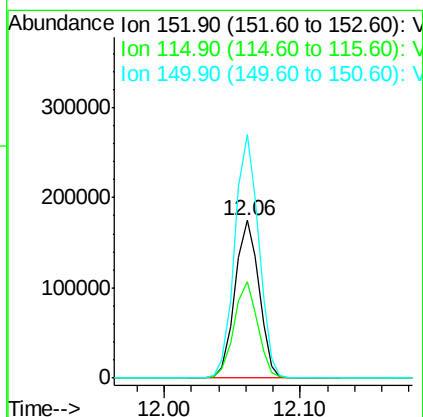
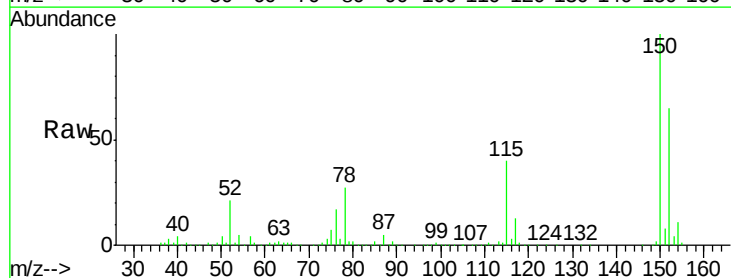
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5229-121020DL

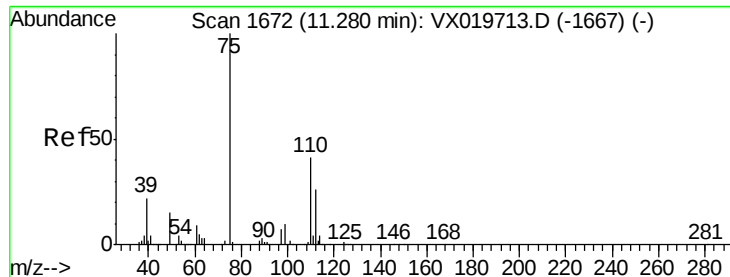
Tgt Ion:117 Resp: 476664
Ion Ratio Lower Upper
117 100
82 56.6 47.4 71.2
119 32.5 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX020012.D
Acq: 15 Dec 2020 15:25

Tgt Ion:152 Resp: 215434
Ion Ratio Lower Upper
152 100
115 59.8 41.1 123.3
150 153.5 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 22.486 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Instrument :

MSVOA_X

ClientSampleId :

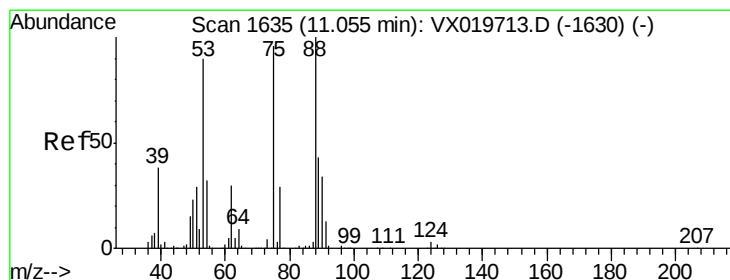
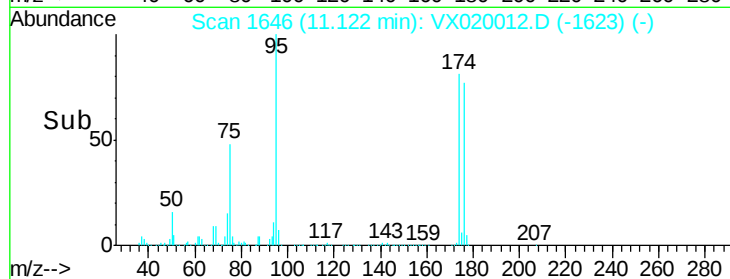
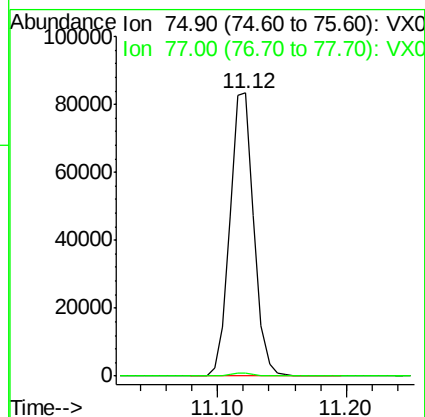
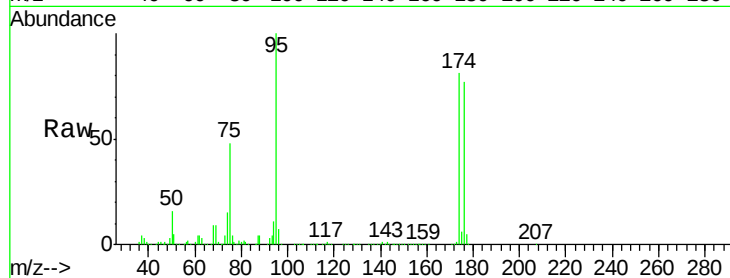
TU032-32-5229-121020DL

Tgt Ion: 75 Resp: 108647

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.002 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020012.D

Acq: 15 Dec 2020 15:25

Tgt Ion: 75 Resp: 108647

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

