

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052020\
 Data File : VX016363.D
 Acq On : 20 May 2020 16:22
 Operator : JC/SP
 Sample : L2708-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0692

Quant Time: May 21 03:53:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	250835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	415854	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	402713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	200047	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	146886	44.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.00%	
35) Dibromofluoromethane	5.46	113	122422	46.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.94%	
50) Toluene-d8	8.70	98	513437	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	11.12	95	201892	52.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.58%	

Target Compounds

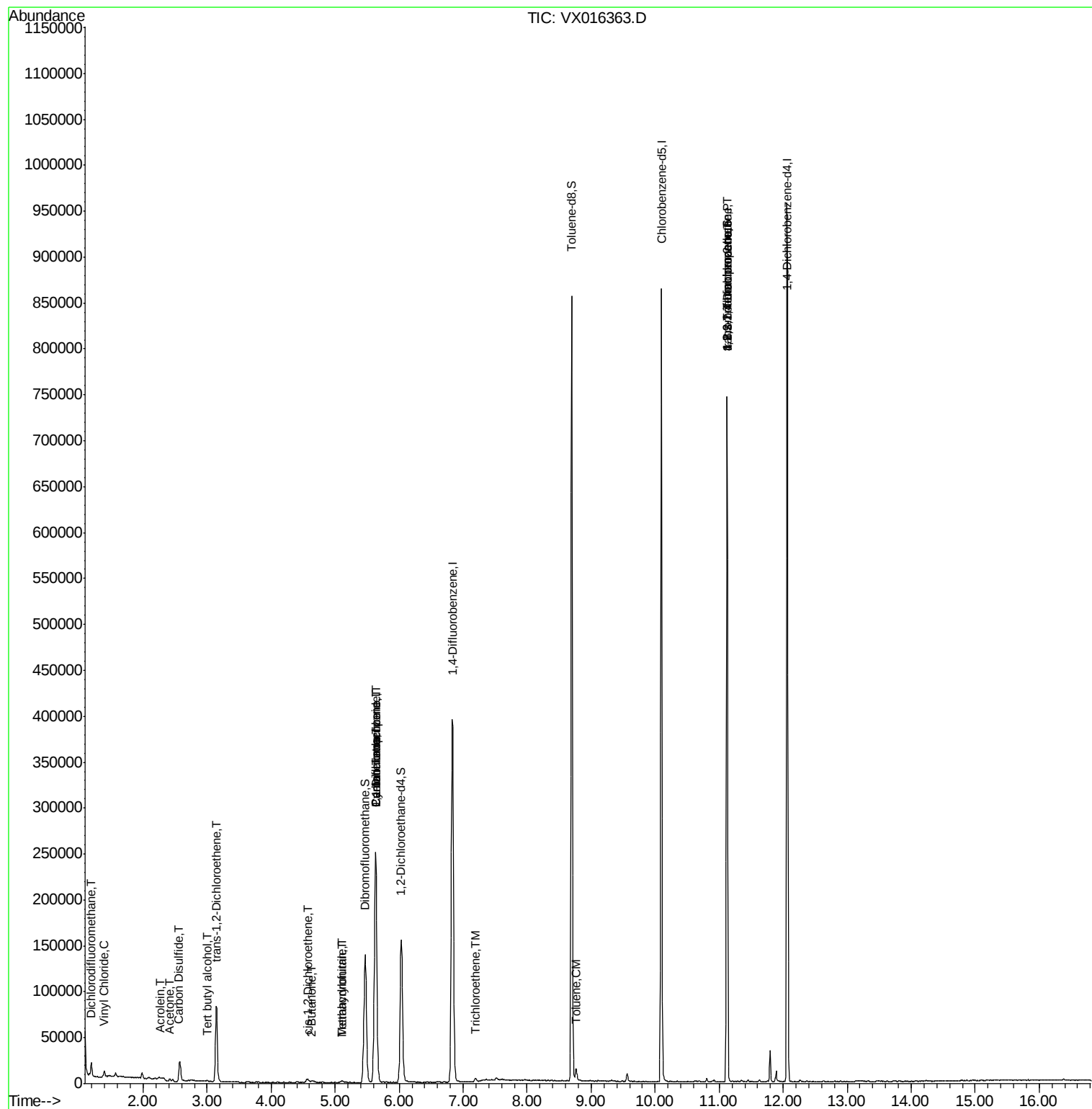
						Qvalue
2) Dichlorodifluoromethane	1.18	85	2785	1.049	ug/l	98
4) Vinyl Chloride	1.39	62	3012	0.916	ug/l	93
11) Tert butyl alcohol	3.00	59	593	0.710	ug/l #	72
13) Acrolein	2.27	56	201	0.385	ug/l #	13
16) Acetone	2.42	43	2777	1.886	ug/l	96
17) Carbon Disulfide	2.56	76	4241	0.336	ug/l	98
21) trans-1,2-Dichloroethene	3.15	96	36535	12.574	ug/l	94
25) 2-Butanone	4.64	43	3140	1.323	ug/l #	84
27) cis-1,2-Dichloroethene	4.57	96	2634	0.829	ug/l	79
29) Tetrahydrofuran	5.11	42	1302	0.828	ug/l #	72
31) Cyclohexane	5.64	56	4429	0.966	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	17185	4.198	ug/l #	49
38) Carbon Tetrachloride	5.63	117	24000	5.768	ug/l #	14
41) Methacrylonitrile	5.10	41	1077	0.420	ug/l #	44
44) Trichloroethene	7.19	130	1443	0.339	ug/l	76
52) Toluene	8.77	92	4407	0.590	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.12	83	127	2.096	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	96433	21.243	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	96433	50.624	ug/l #	13

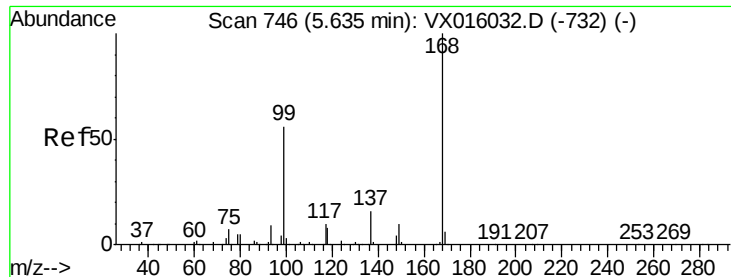
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 21 03:53:41 2020
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Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampled :

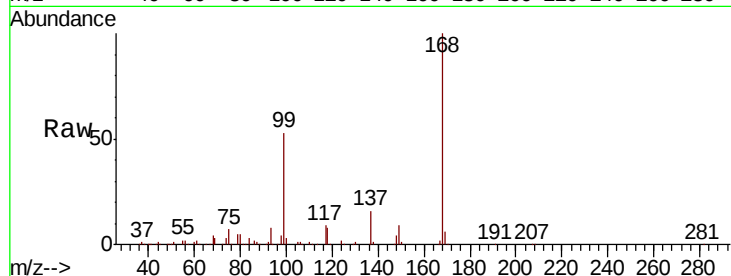
S32-0692

Tot Ion:168 Resp: 250835

Ion Ratio Lower Upper

168 100

99 52.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

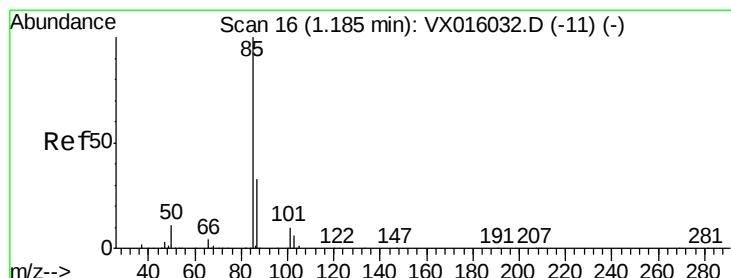
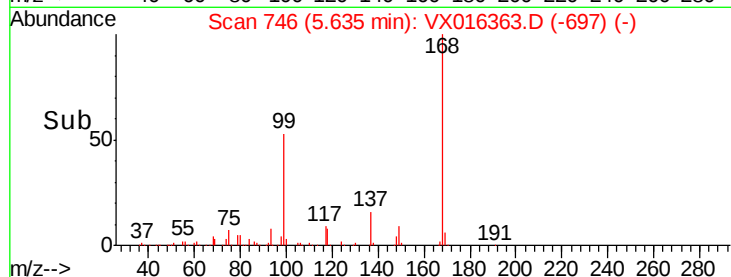
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.049 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016363.D

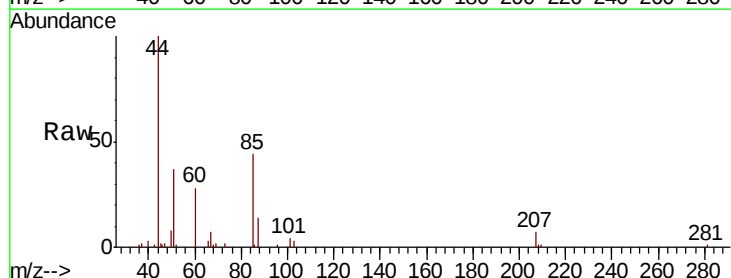
Acq: 20 May 2020 16:22

Tgt Ion: 85 Resp: 2785

Ion Ratio Lower Upper

85 100

87 31.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

3000

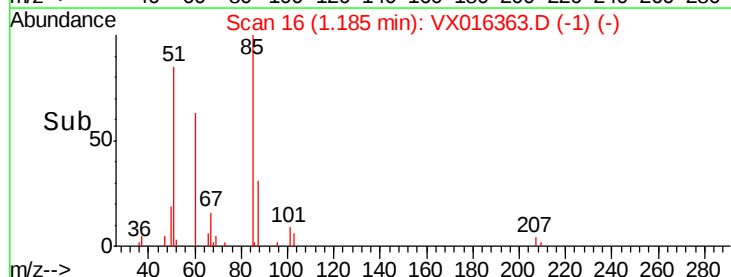
2000

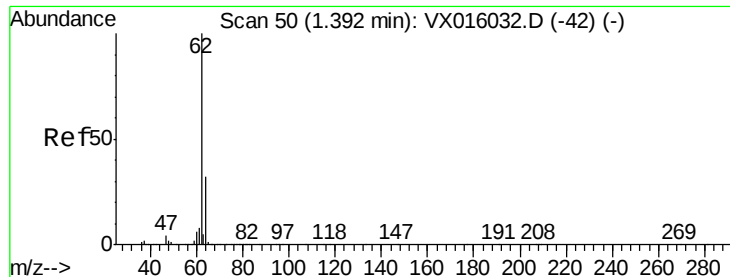
1000

0

Time-->

1.15 1.20





#4

Vinyl Chloride

Concen: 0.916 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

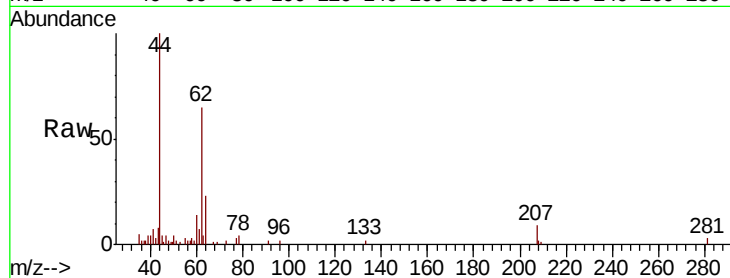
S32-0692

Tot Ion: 62 Resp: 3012

Ion Ratio Lower Upper

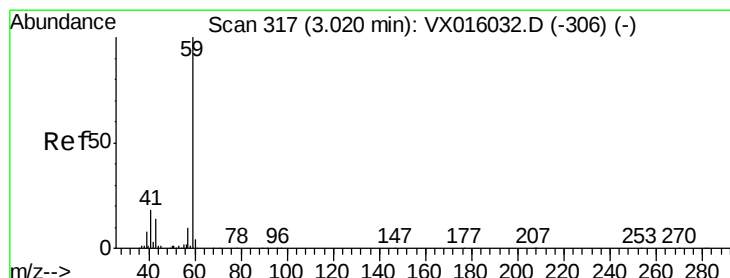
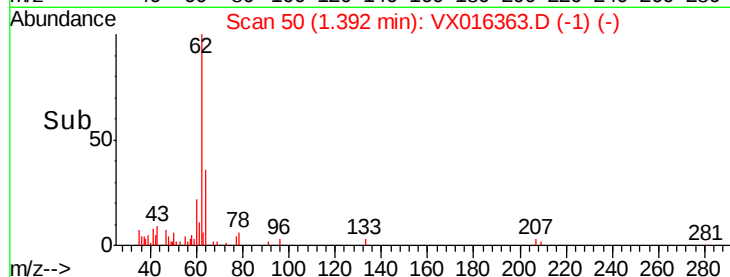
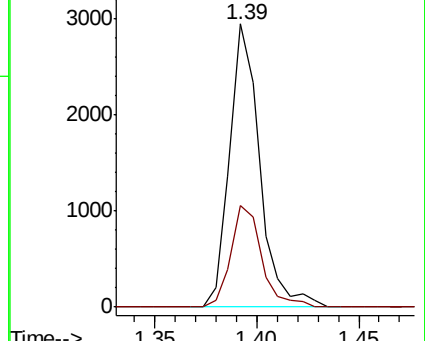
62 100

64 35.8 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 0.710 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX016363.D

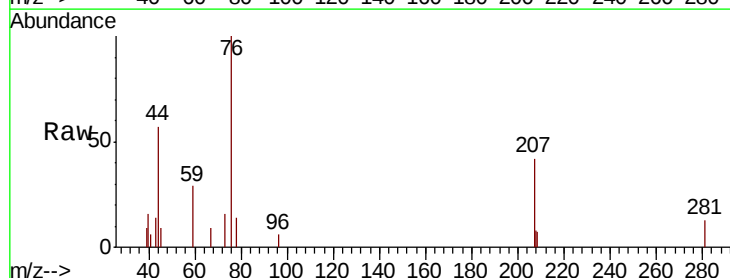
Acq: 20 May 2020 16:22

Tgt Ion: 59 Resp: 593

Ion Ratio Lower Upper

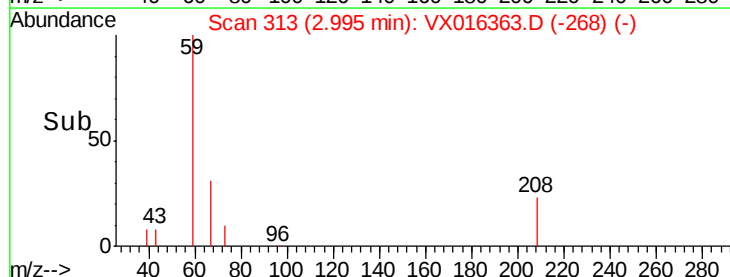
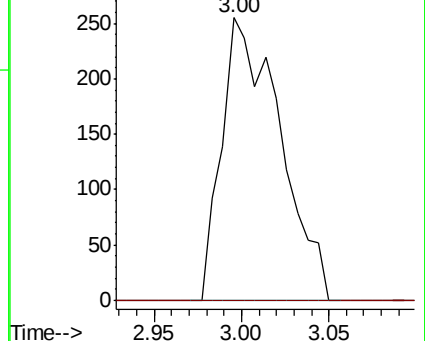
59 100

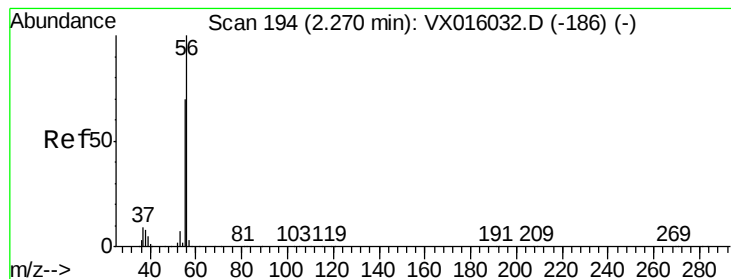
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.385 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

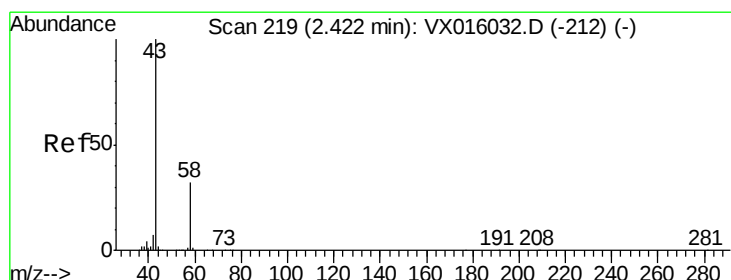
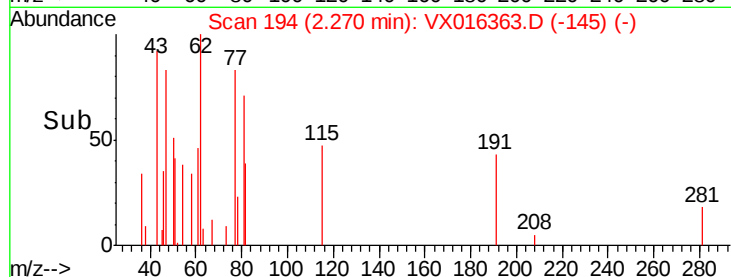
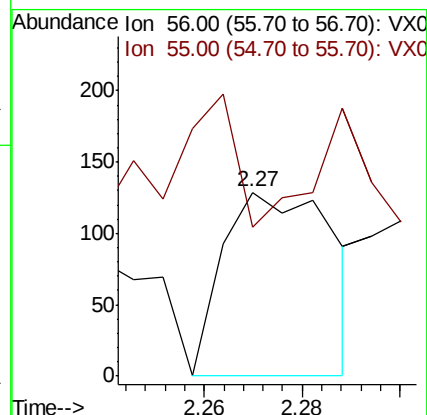
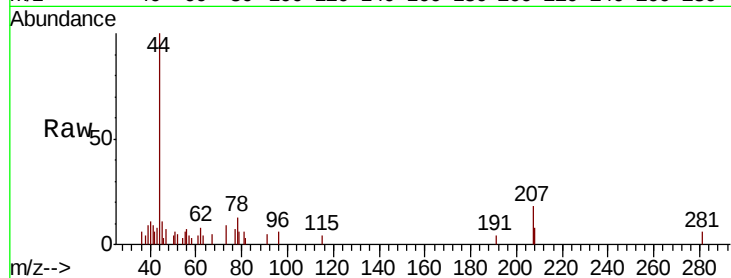
S32-0692

Tot Ion: 56 Resp: 201

Ion Ratio Lower Upper

56 100

55 142.3 56.5 84.7#



#16

Acetone

Concen: 1.886 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016363.D

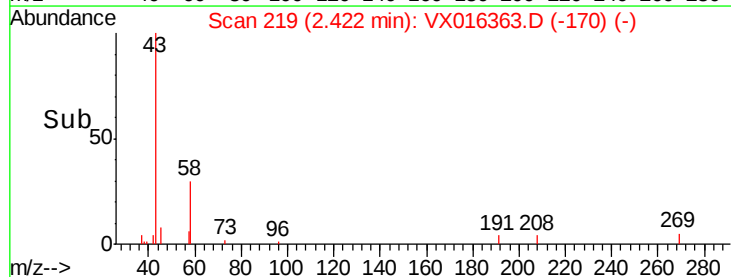
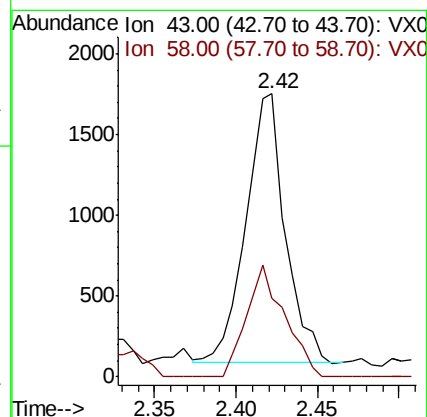
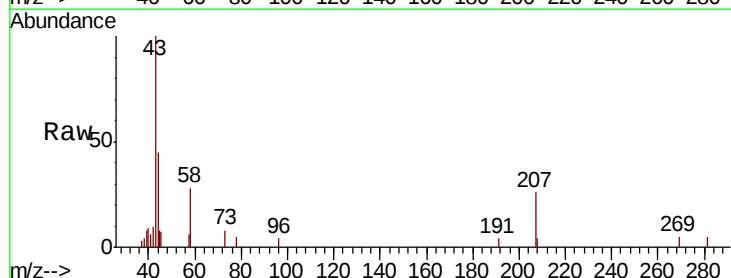
Acq: 20 May 2020 16:22

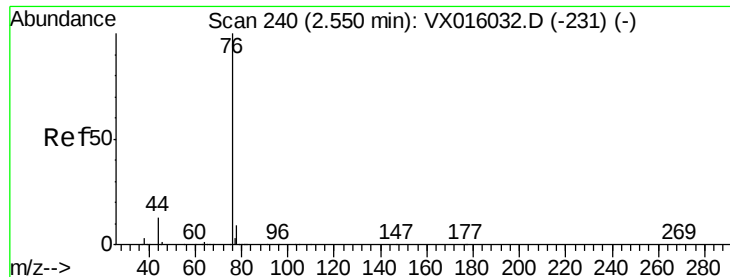
Tgt Ion: 43 Resp: 2777

Ion Ratio Lower Upper

43 100

58 29.4 25.4 38.0

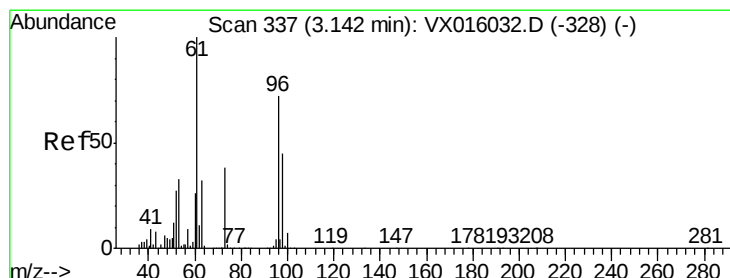
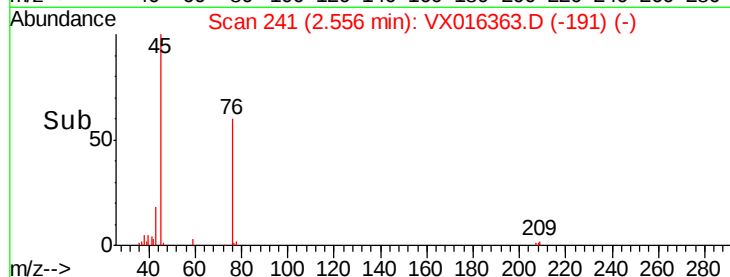
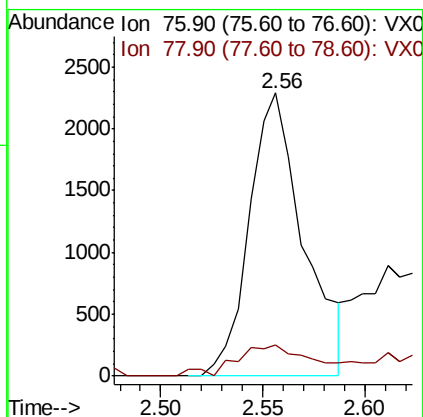
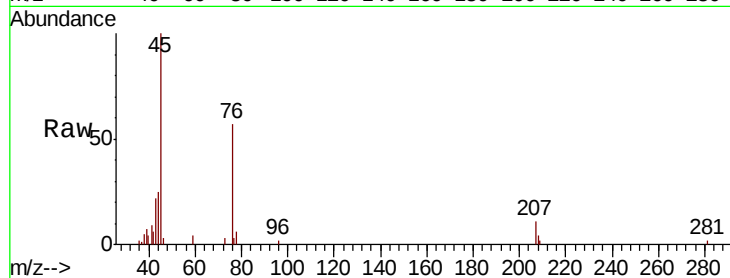




#17
Carbon Disulfide
Concen: 0.336 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX016363.D
Acq: 20 May 2020 16:22

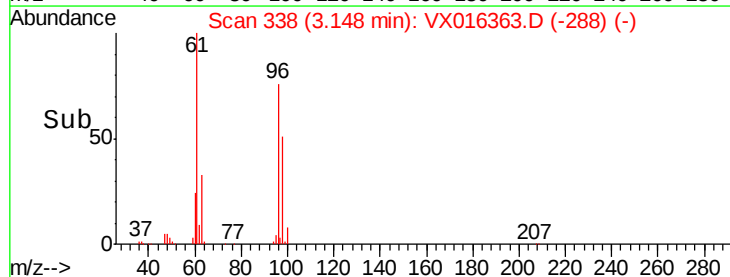
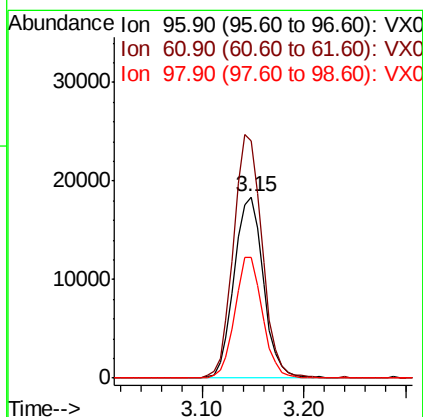
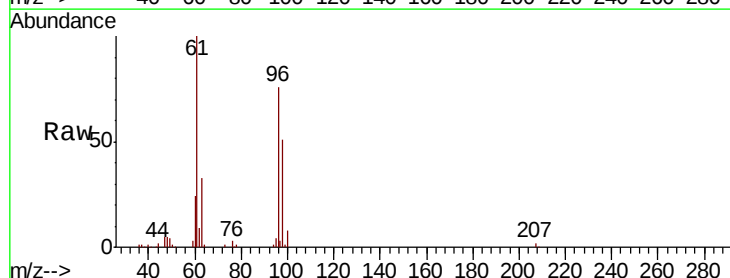
Instrument :
MSVOA_X
ClientSampled :
S32-0692

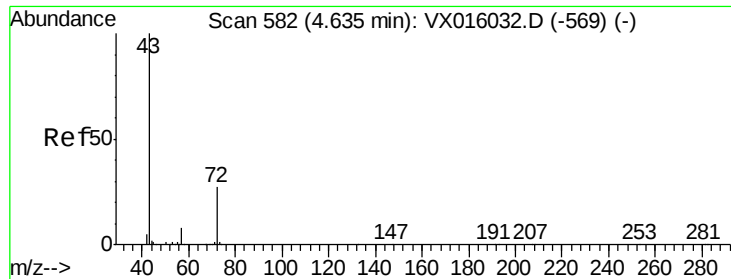
Tot Ion: 76 Resp: 4241
Ion Ratio Lower Upper
76 100
78 8.7 7.5 11.3



#21
trans-1,2-Dichloroethene
Concen: 12.574 ug/l
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX016363.D
Acq: 20 May 2020 16:22

Tgt Ion: 96 Resp: 36535
Ion Ratio Lower Upper
96 100
61 130.7 111.2 166.8
98 66.6 50.2 75.4





#25

2-Butanone

Concen: 1.323 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

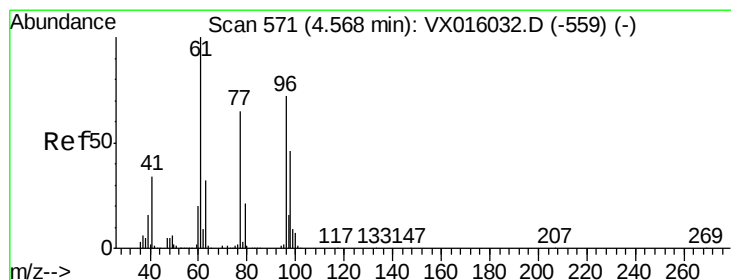
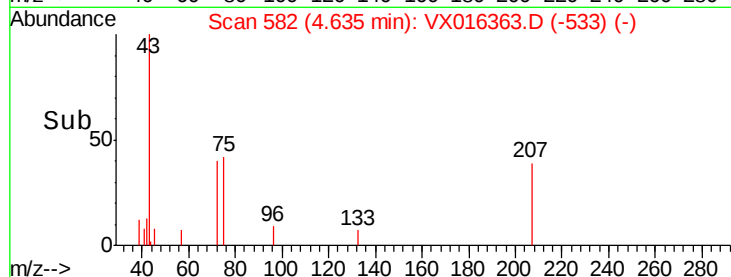
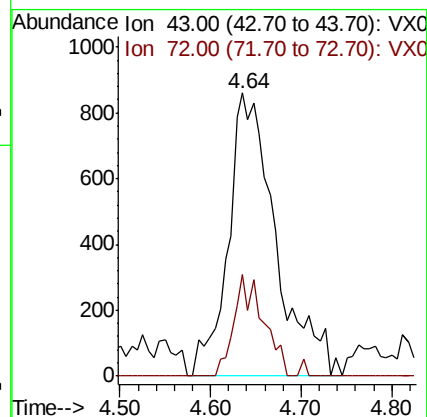
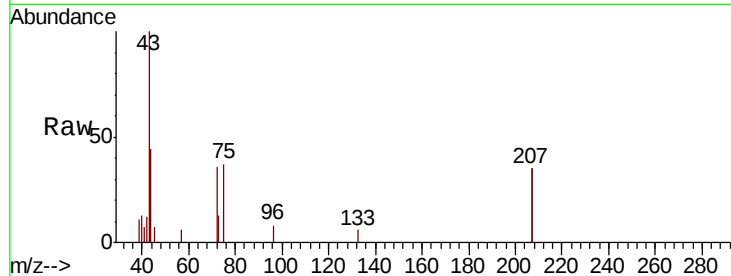
S32-0692

Tot Ion: 43 Resp: 3140

Ion Ratio Lower Upper

43 100

72 35.8 21.8 32.8#



#27

cis-1,2-Dichloroethene

Concen: 0.829 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

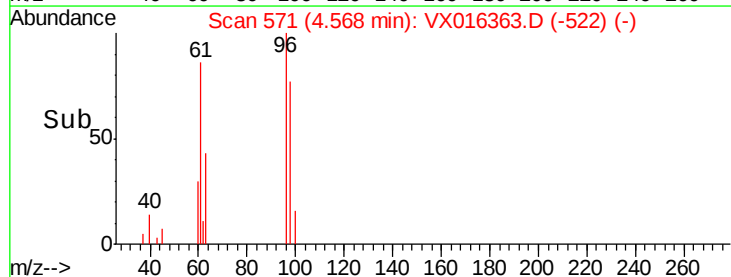
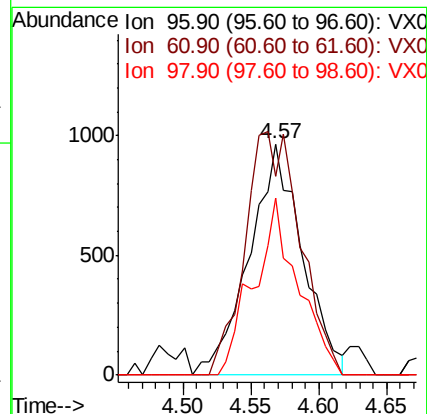
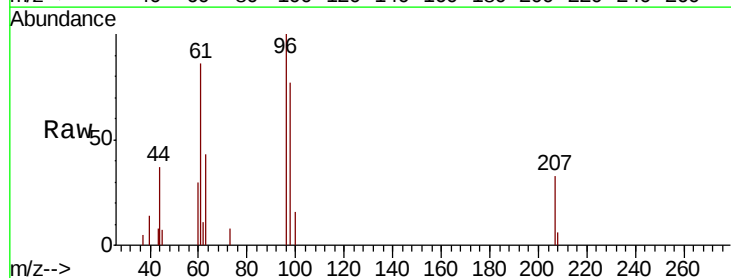
Tgt Ion: 96 Resp: 2634

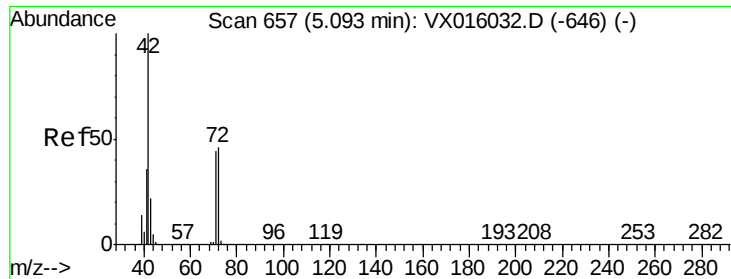
Ion Ratio Lower Upper

96 100

61 109.8 0.0 296.2

98 64.3 0.0 129.4





#29

Tetrahydrofuran

Concen: 0.828 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampled :

S32-0692

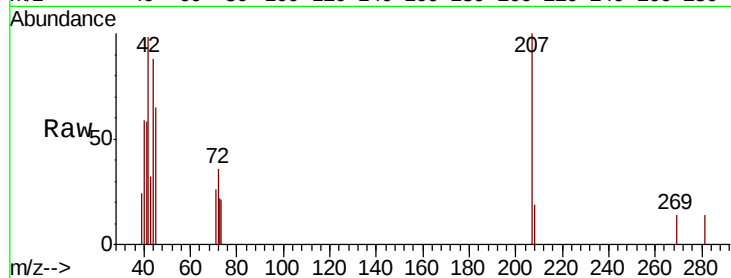
Tot Ion: 42 Resp: 1302

Ion Ratio Lower Upper

42 100

72 17.7 37.1 55.7#

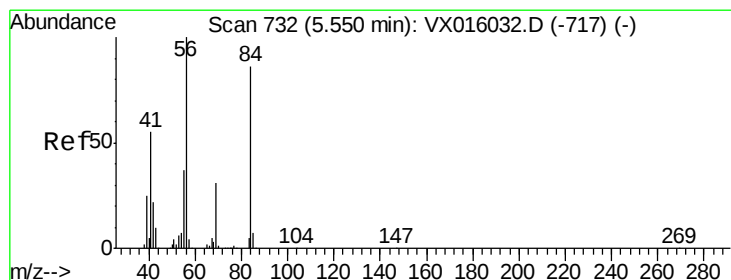
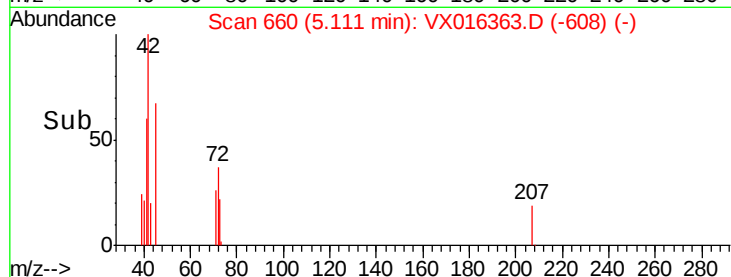
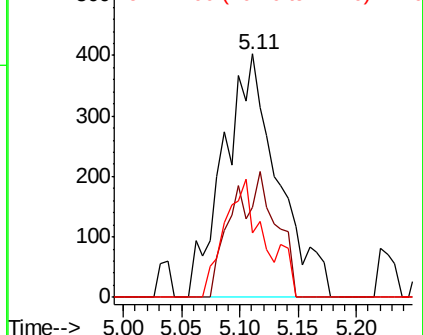
71 36.2 34.5 51.7



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: 0.966 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

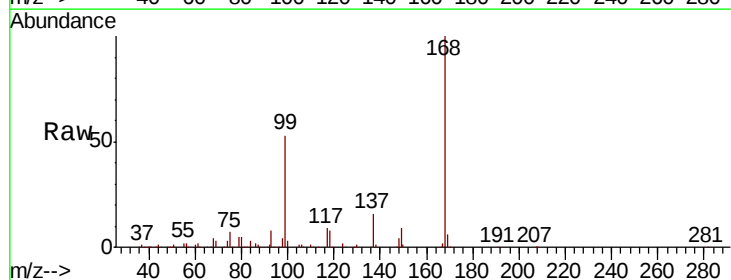
Tgt Ion: 56 Resp: 4429

Ion Ratio Lower Upper

56 100

69 180.6 25.0 37.6#

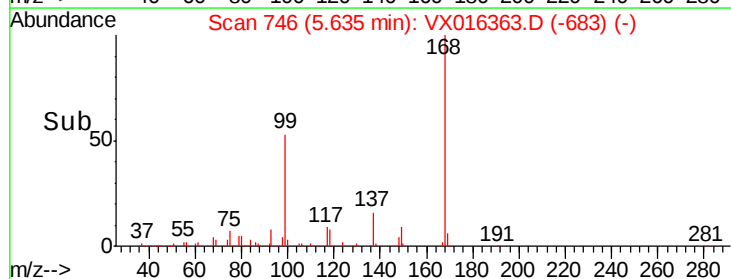
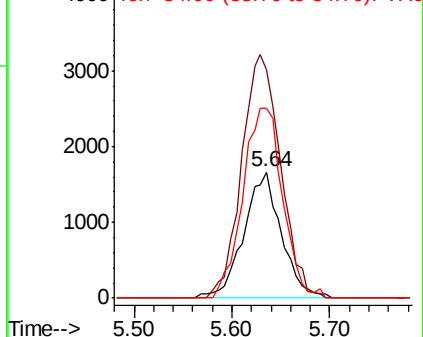
84 150.1 69.0 103.6#

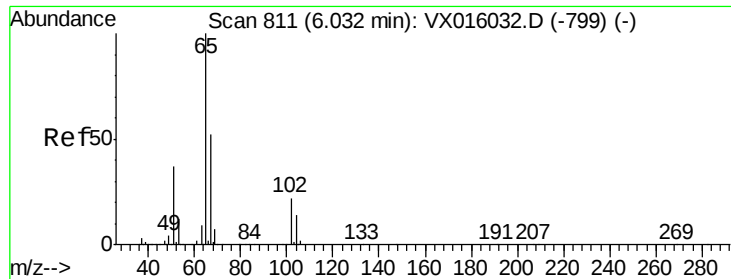


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 44.501 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

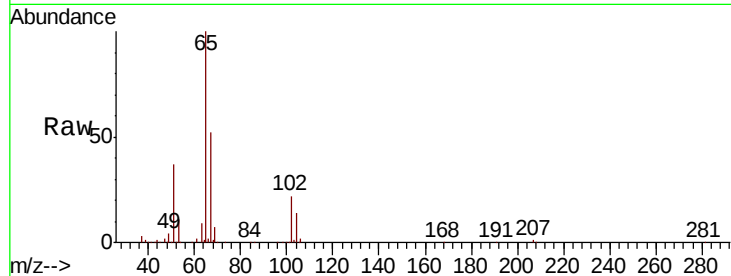
S32-0692

Tot Ion: 65 Resp: 146886

Ion Ratio Lower Upper

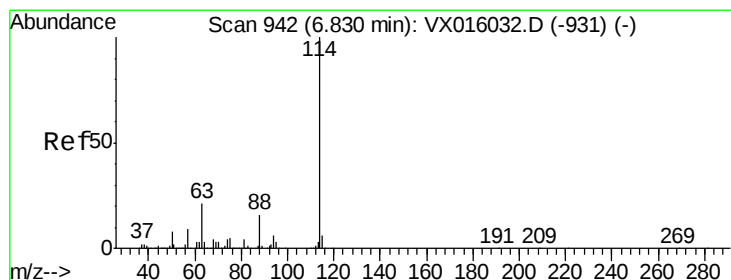
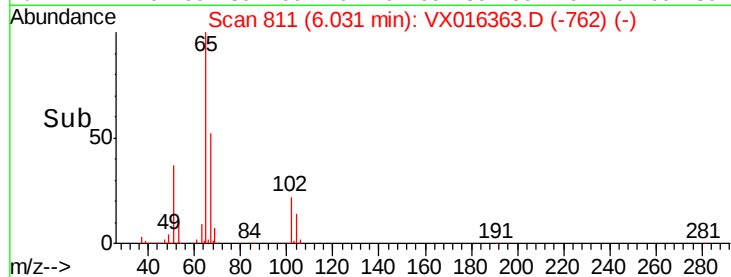
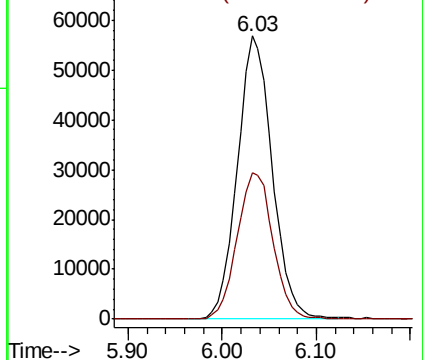
65 100

67 53.5 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

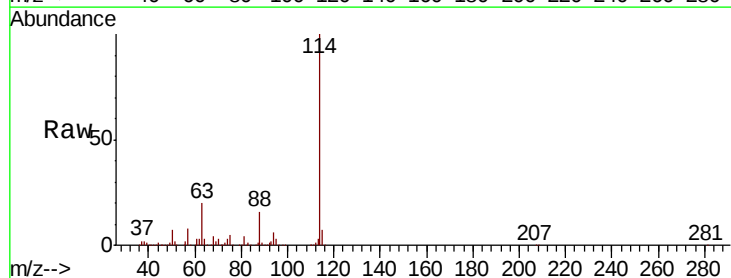
Tgt Ion: 114 Resp: 415854

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.8

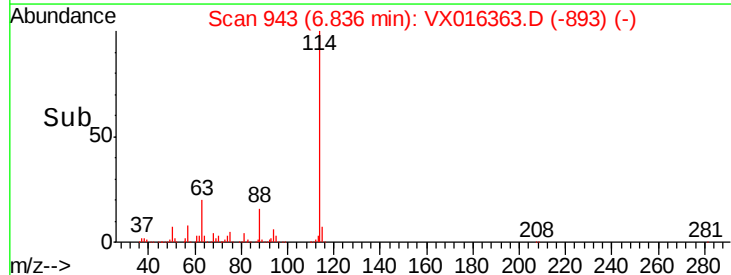
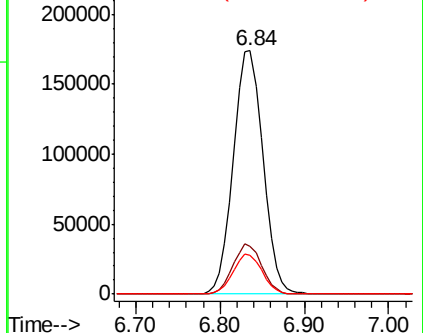
88 16.2 0.0 31.4

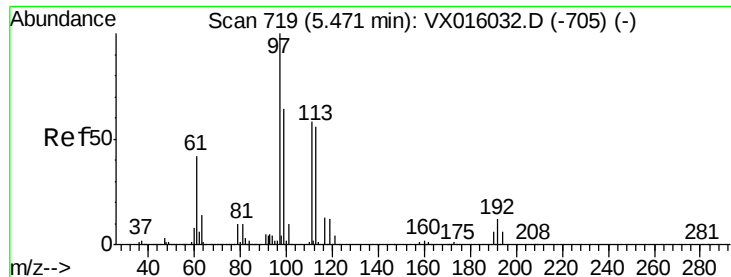


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

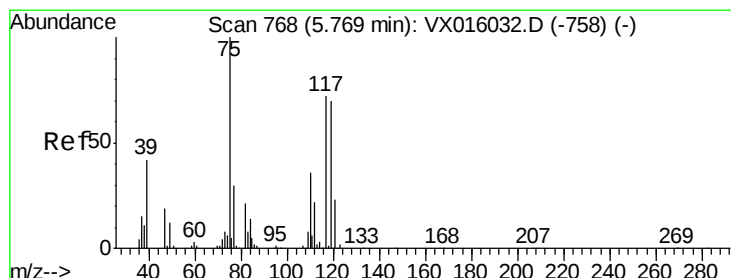
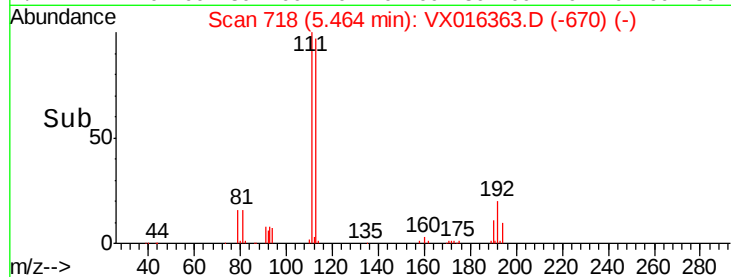
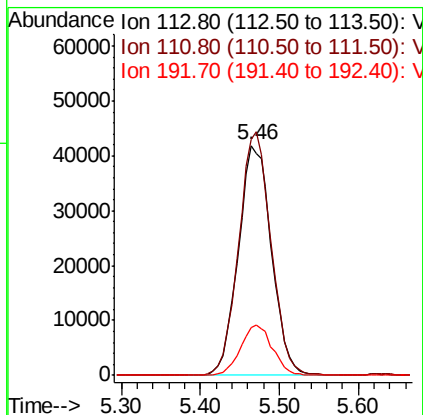
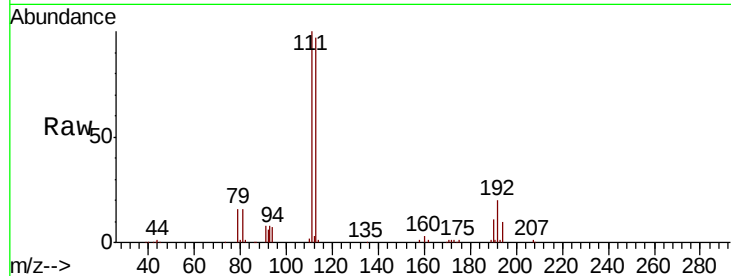




#35
 Dibromofluoromethane
 Concen: 46.467 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX016363.D
 Acq: 20 May 2020 16:22

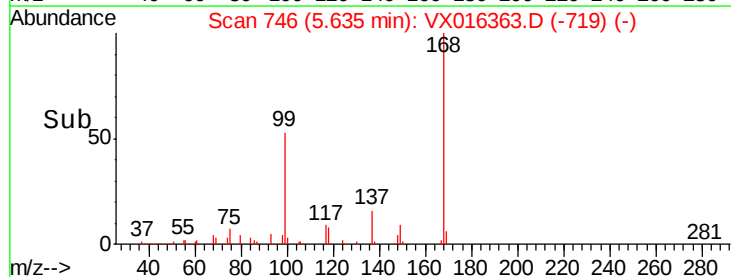
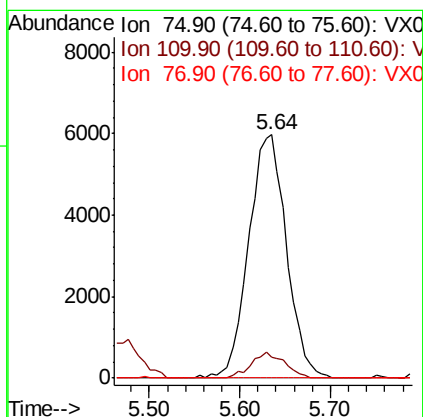
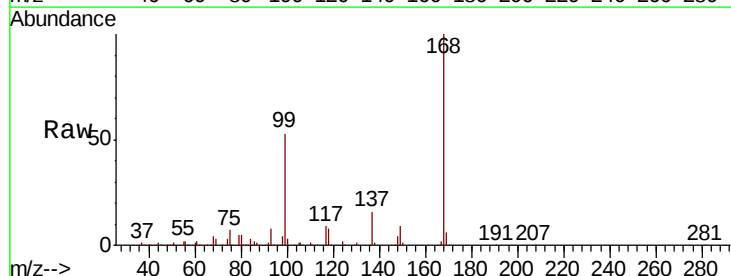
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0692

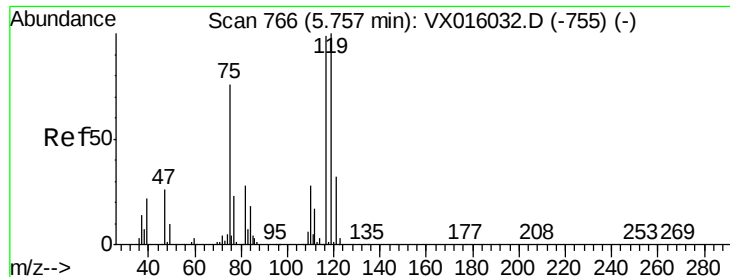
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.6	122.4
192	21.1	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.198 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016363.D
 Acq: 20 May 2020 16:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.1#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.768 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

S32-0692

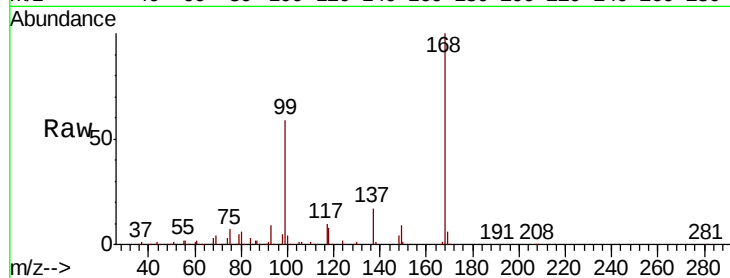
Tot Ion:117 Resp: 24000

Ion Ratio Lower Upper

117 100

119 4.5 80.3 120.5#

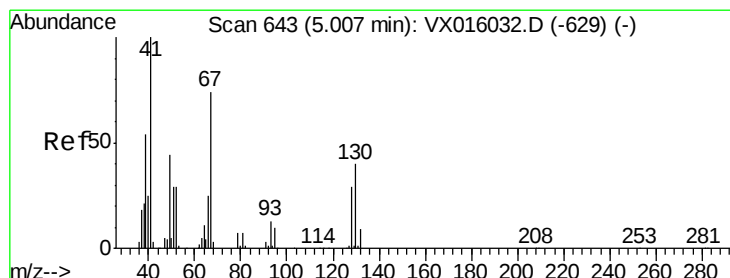
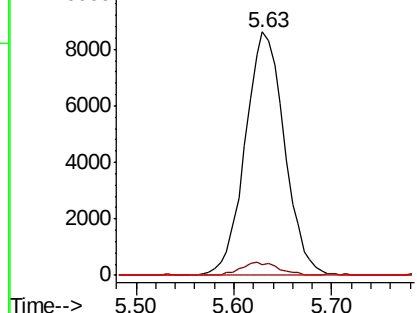
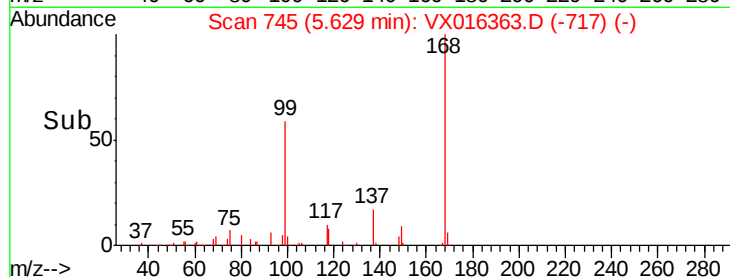
121 0.0 25.7 38.5#



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



#41

Methacrylonitrile

Concen: 0.420 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.09 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Tgt Ion: 41 Resp: 1077

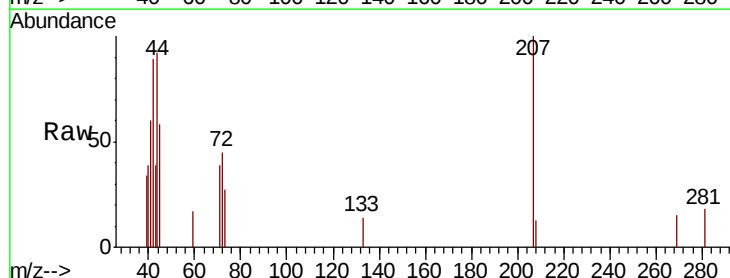
Ion Ratio Lower Upper

41 100

39 44.8 43.2 64.8

67 0.0 59.3 88.9#

52 0.0 23.5 35.3#

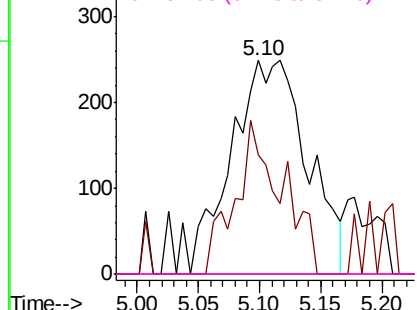
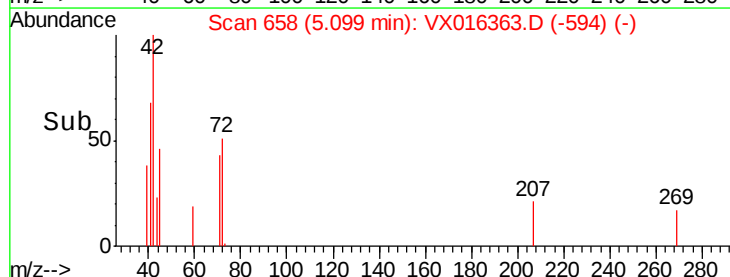


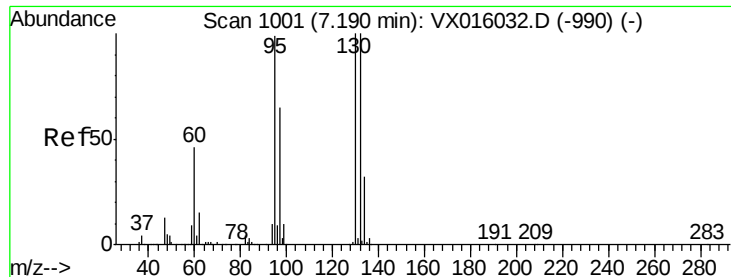
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 0.339 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

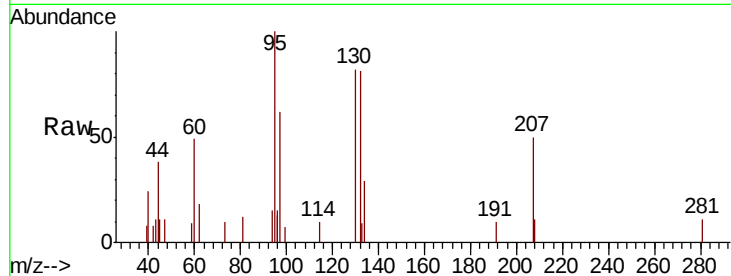
S32-0692

Tot Ion:130 Resp: 1443

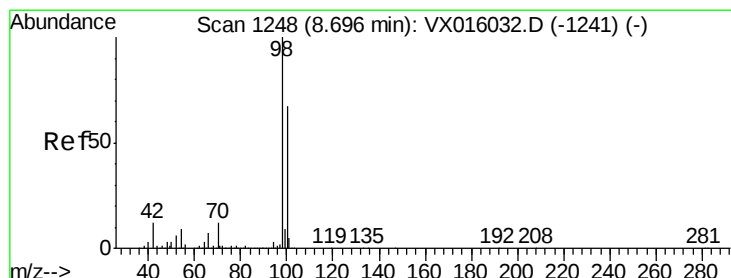
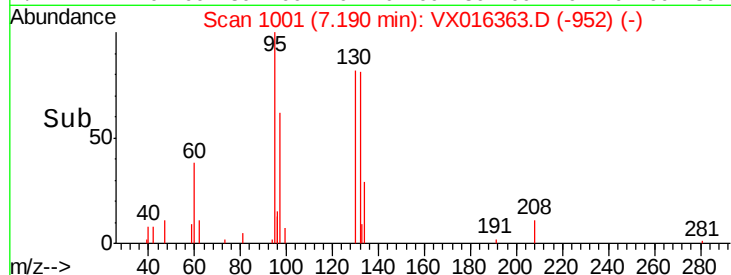
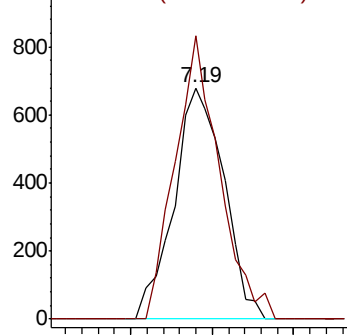
Ion Ratio Lower Upper

130 100

95 122.4 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 50.578 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016363.D

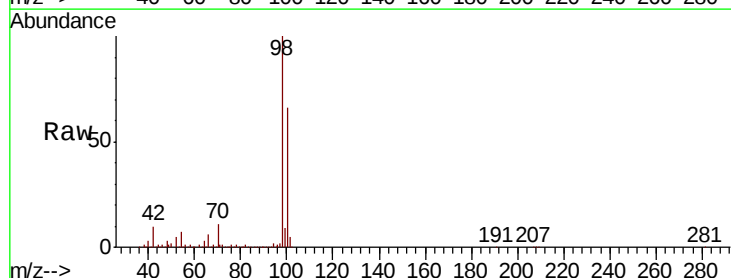
Acq: 20 May 2020 16:22

Tgt Ion: 98 Resp: 513437

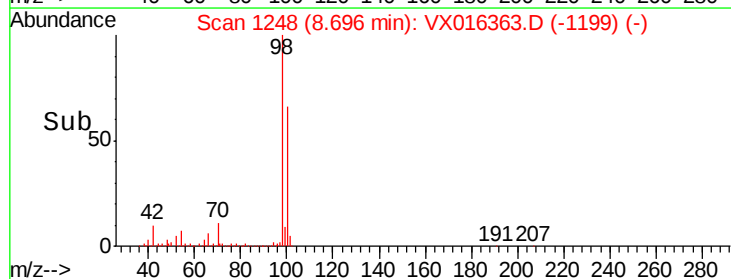
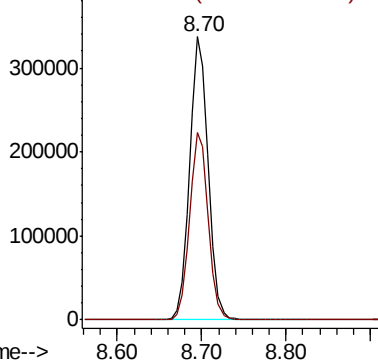
Ion Ratio Lower Upper

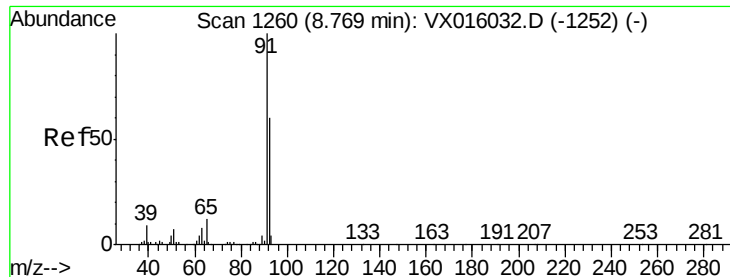
98 100

100 66.5 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0





#52

Toluene

Concen: 0.590 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

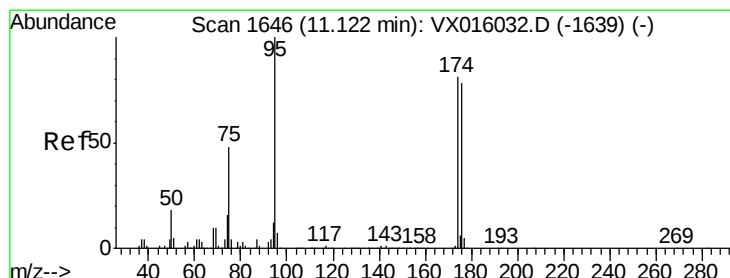
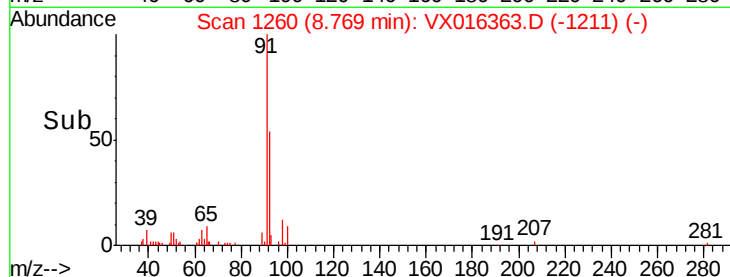
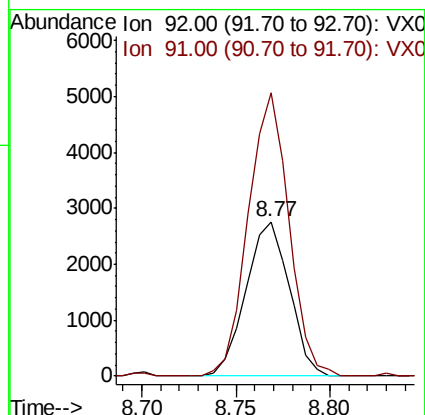
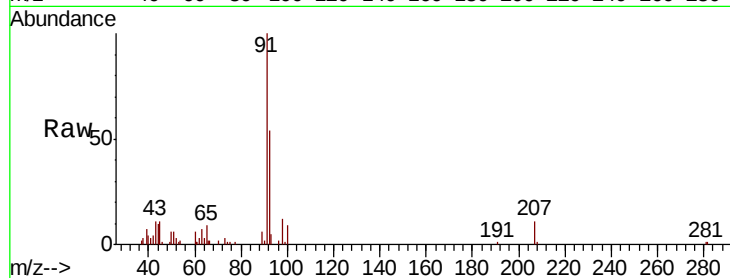
S32-0692

Tot Ion: 92 Resp: 4407

Ion Ratio Lower Upper

92 100

91 171.8 134.5 201.7



#62

4-Bromofluorobenzene

Concen: 52.289 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

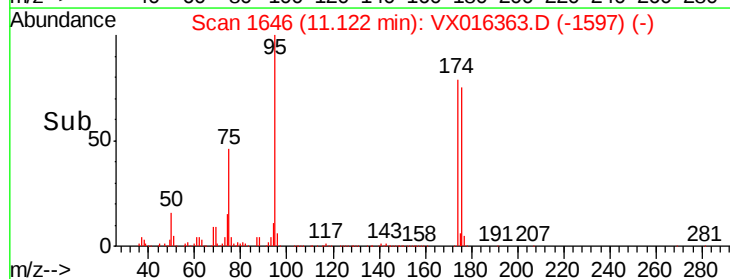
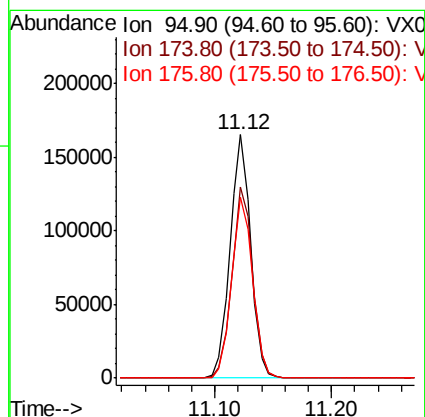
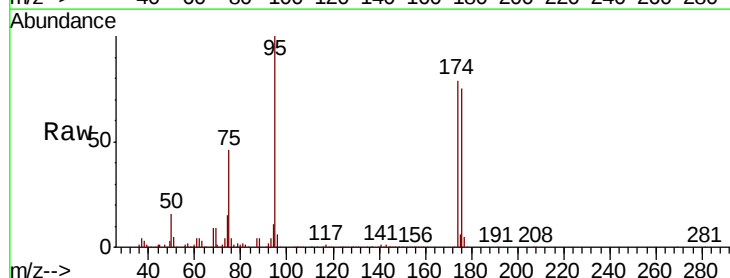
Tgt Ion: 95 Resp: 201892

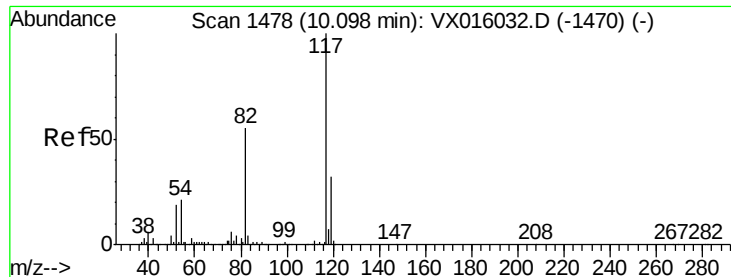
Ion Ratio Lower Upper

95 100

174 79.8 0.0 159.4

176 76.4 0.0 157.6

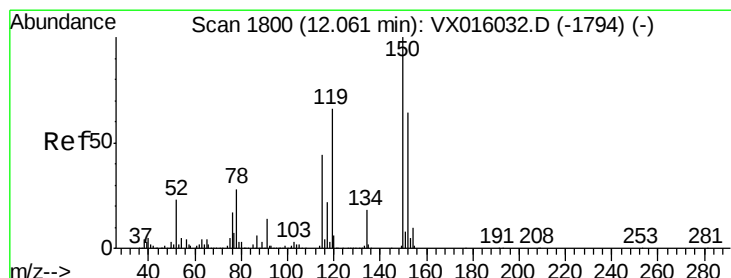
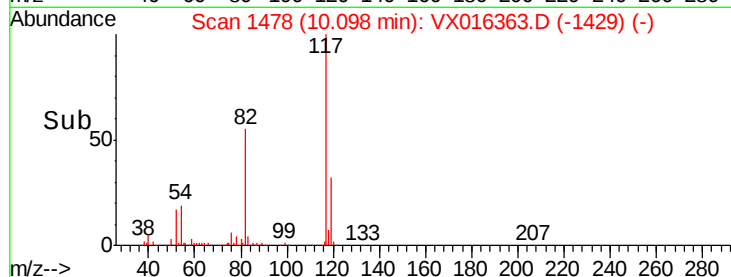
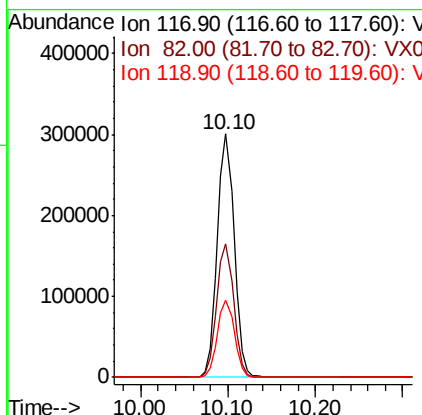
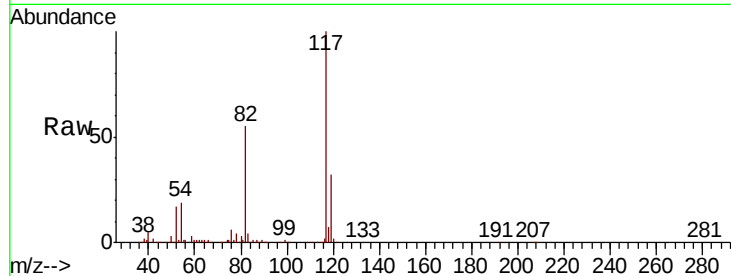




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016363.D
Acq: 20 May 2020 16:22

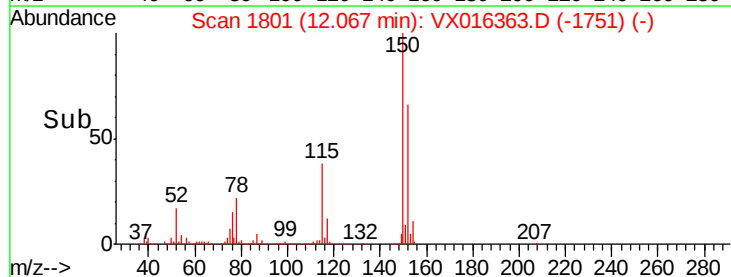
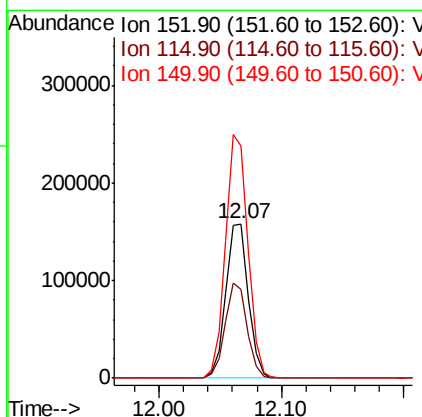
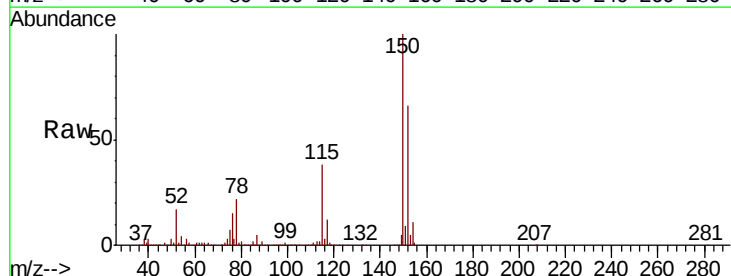
Instrument :
MSVOA_X
ClientSampleId :
S32-0692

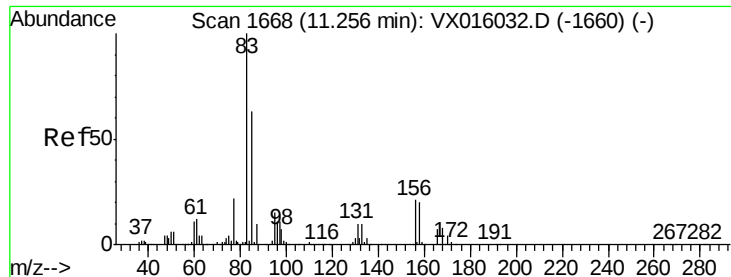
Tot Ion:117 Resp: 402713
Ion Ratio Lower Upper
117 100
82 55.0 44.4 66.6
119 31.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016363.D
Acq: 20 May 2020 16:22

Tgt Ion:152 Resp: 200047
Ion Ratio Lower Upper
152 100
115 60.3 41.3 124.1
150 156.6 0.0 352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.096 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

S32-0692

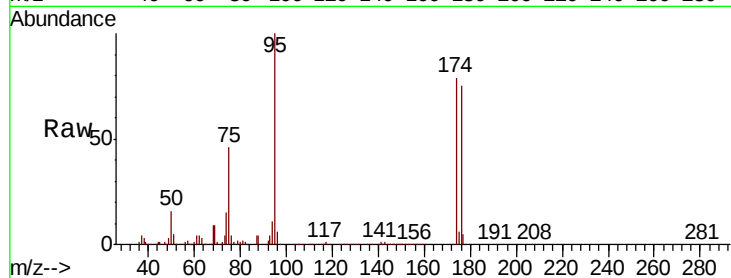
Tot Ion: 83 Resp: 127

Ion Ratio Lower Upper

83 100

131 175.6 5.1 15.4#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

300

250

200

150

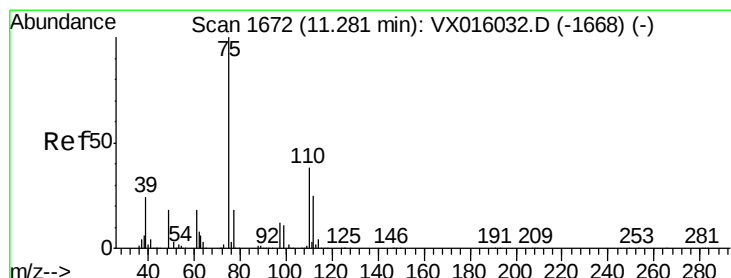
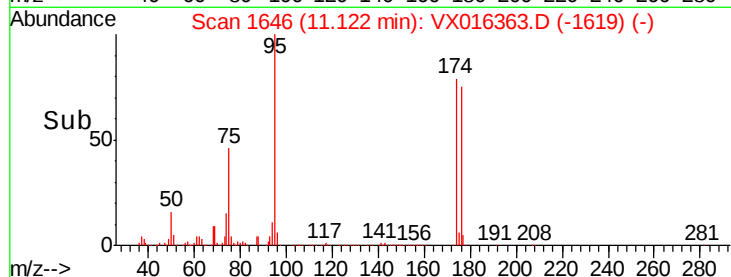
100

50

0

11.08 11.10 11.12 11.14

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.243 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016363.D

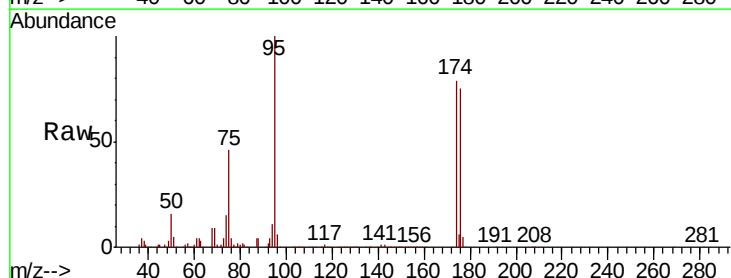
Acq: 20 May 2020 16:22

Tgt Ion: 75 Resp: 96433

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

80000

60000

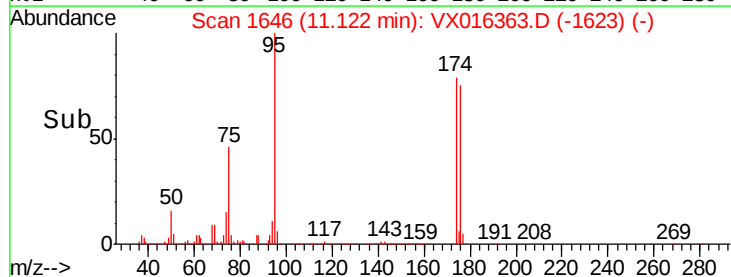
40000

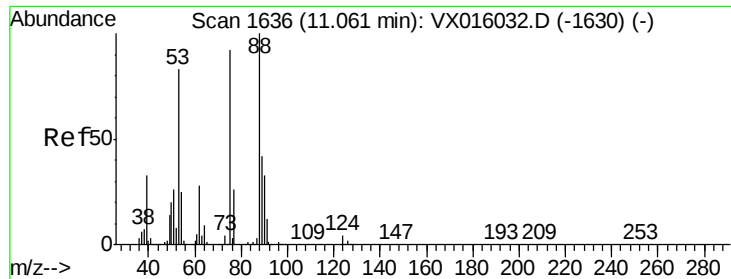
20000

0

11.05 11.10 11.15 11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 50.624 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016363.D

Acq: 20 May 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

S32-0692

Tot Ion: 75 Resp: 96433

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#

