

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031219\
 Data File : VX008017.D
 Acq On : 12 Mar 2019 15:41
 Operator : JC/SP
 Sample : K1841-04DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20190308DL

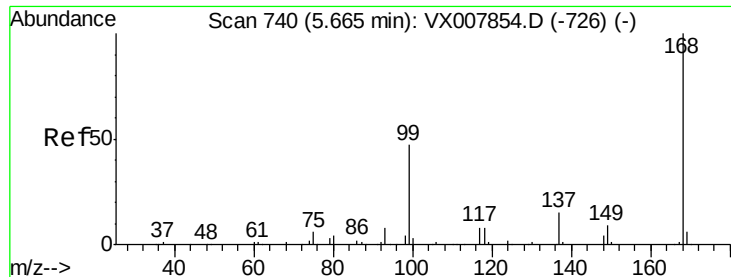
Quant Time: Mar 13 05:20:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	221944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	346891	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	324390	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166706	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	123362	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
35) Dibromofluoromethane	5.50	113	112344	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
50) Toluene-d8	8.71	98	421459	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.13	95	155444	54.41	ug/l	0.00
Spiked Amount			Recovery	=	108.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	699	Below Cal		81
9) 1,1,2-Trichlorotrifluoroet	2.38	101	747	0.381	ug/l	93
11) Tert butyl alcohol	3.03	59	6544	12.498	ug/l #	75
13) Acrolein	2.28	56	19	1.605	ug/l #	13
16) Acetone	2.45	43	6541	4.827	ug/l	97
17) Carbon Disulfide	2.56	76	774	Below Cal	#	58
18) Methyl Acetate	2.78	43	759	0.264	ug/l	91
20) Methylene Chloride	2.85	84	697	0.323	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	692	0.291	ug/l	48
29) Tetrahydrofuran	5.16	42	416	0.348	ug/l #	52
31) Cyclohexane	5.66	56	3325	0.924	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13632	4.340	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18977	6.364	ug/l #	16
39) Methylcyclohexane	7.21	83	1717	0.451	ug/l #	1
44) Trichloroethene	7.21	130	143283	55.601	ug/l	98
51) 4-Methyl-2-Pentanone	8.71	43	1613	0.455	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	70758	20.227	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	70758	64.656	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

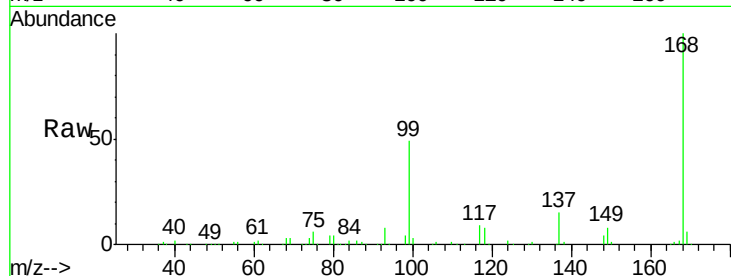
RE122D1-20190308DL

Tot Ion:168 Resp: 221944

Ion Ratio Lower Upper

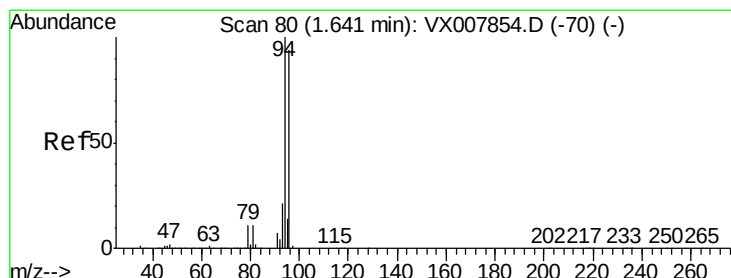
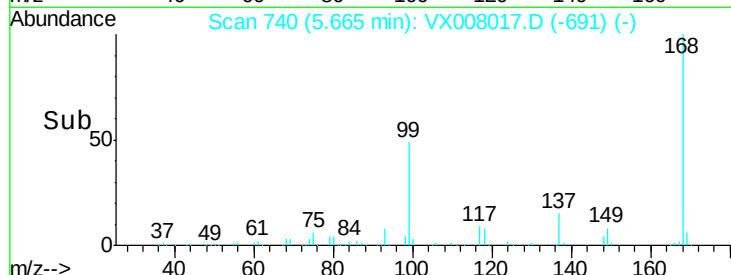
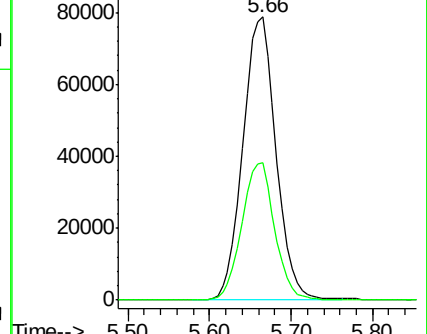
168 100

99 48.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX008017.D

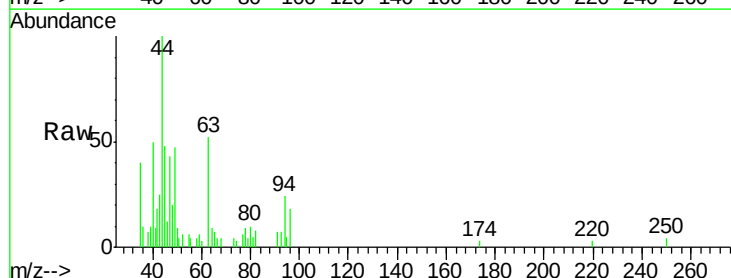
Acq: 12 Mar 2019 15:41

Tgt Ion: 94 Resp: 699

Ion Ratio Lower Upper

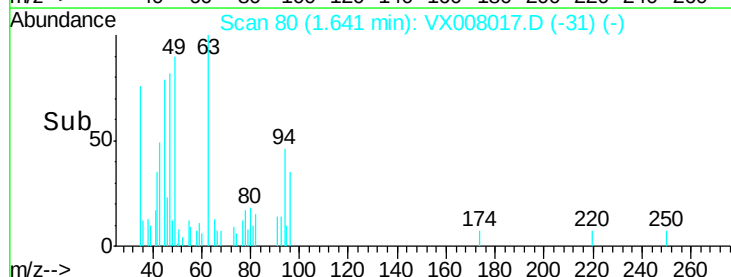
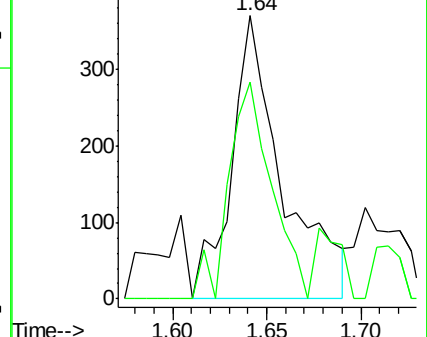
94 100

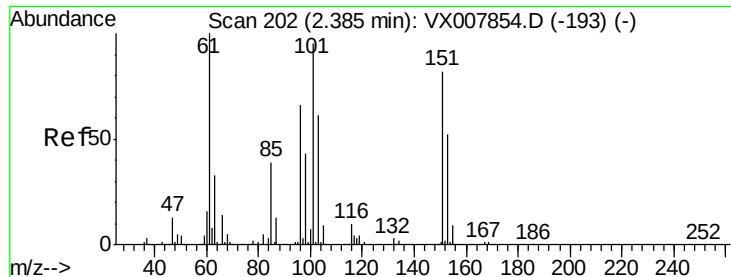
96 76.5 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.381 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20190308DL

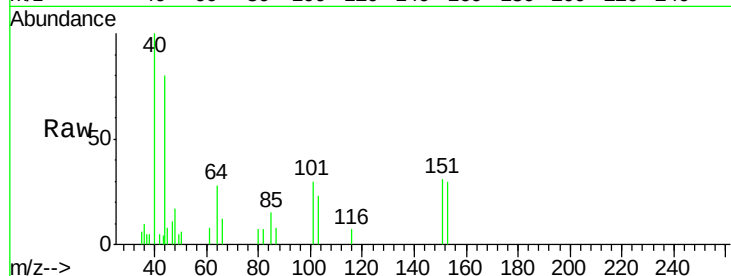
Tot Ion:101 Resp: 747

Ion Ratio Lower Upper

101 100

85 44.6 33.8 50.6

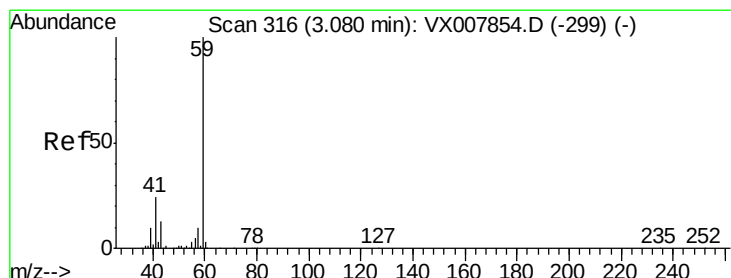
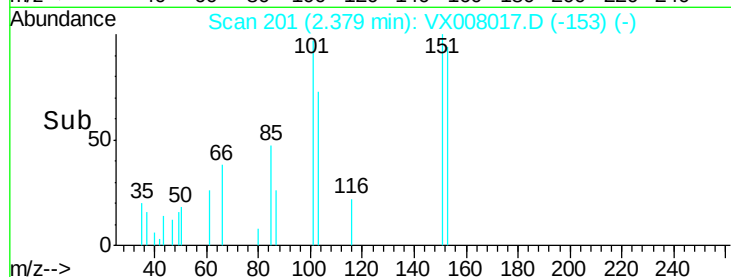
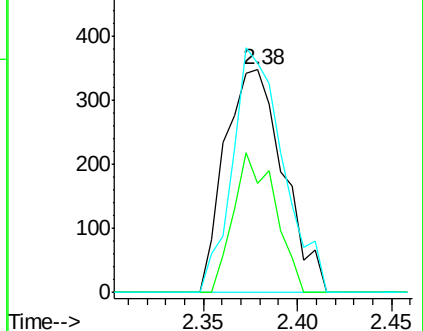
151 94.9 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 12.498 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.06 min

Lab File: VX008017.D

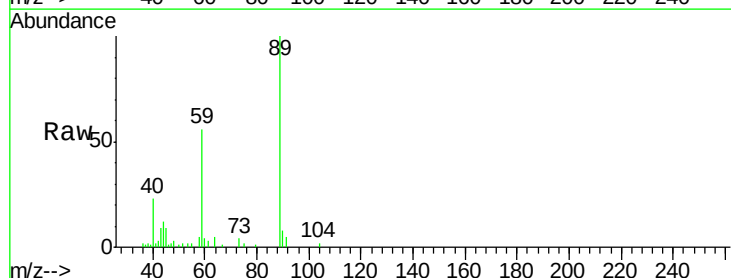
Acq: 12 Mar 2019 15:41

Tgt Ion: 59 Resp: 6544

Ion Ratio Lower Upper

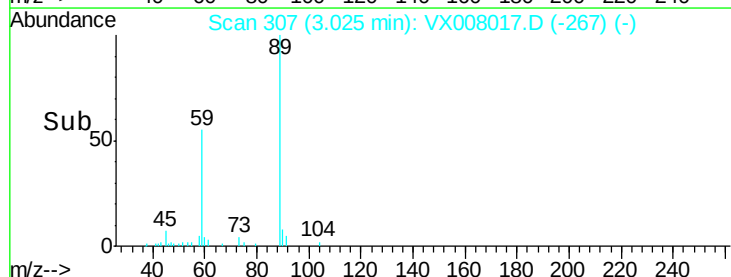
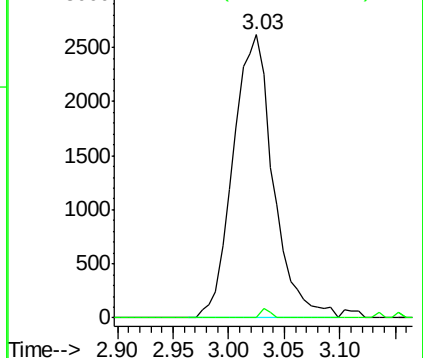
59 100

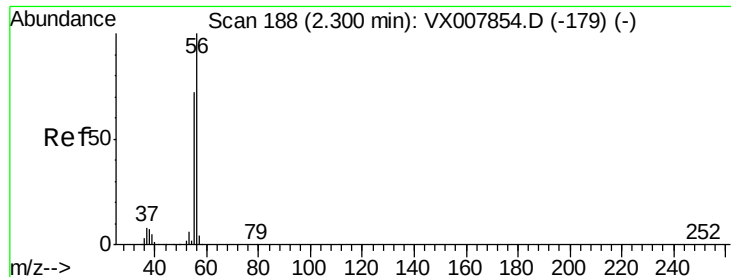
57 0.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.605 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

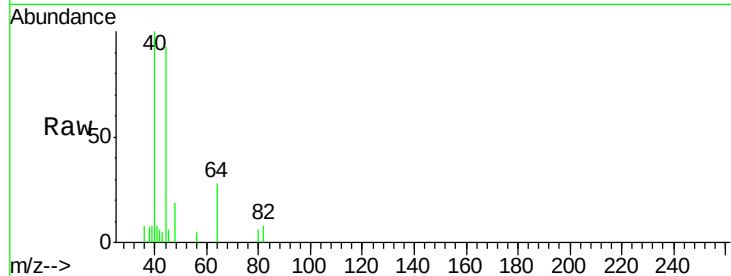
RE122D1-20190308DL

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

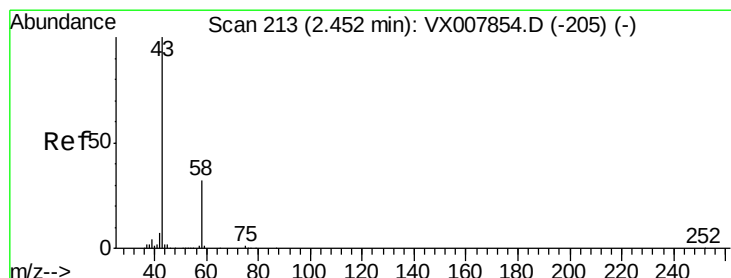
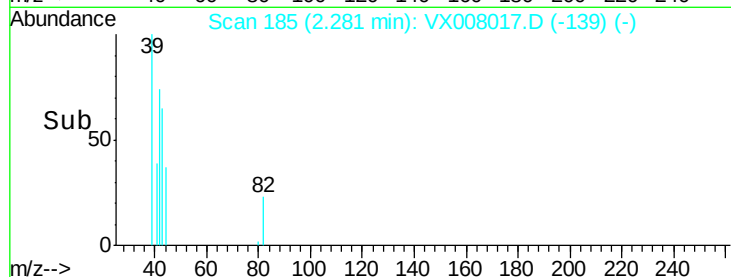
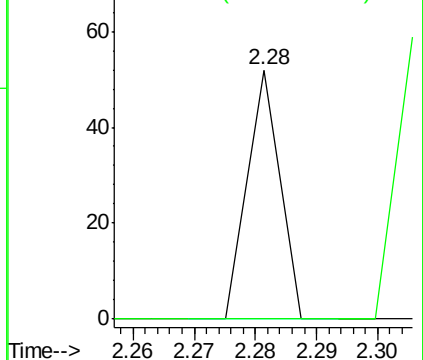
56 100

55 0.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 4.827 ug/l

RT: 2.45 min Scan# 213

Delta R.T. -0.00 min

Lab File: VX008017.D

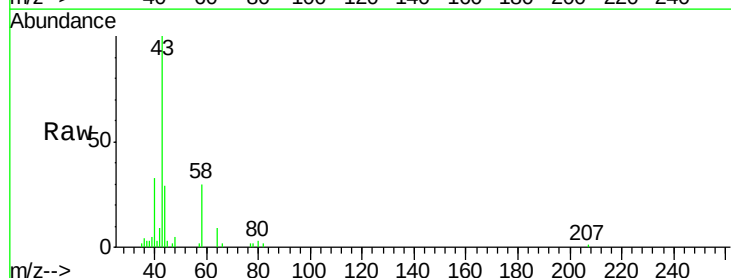
Acq: 12 Mar 2019 15:41

Tgt Ion: 43 Resp: 6541

Ion Ratio Lower Upper

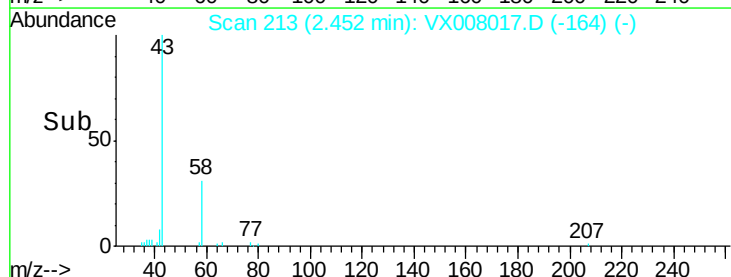
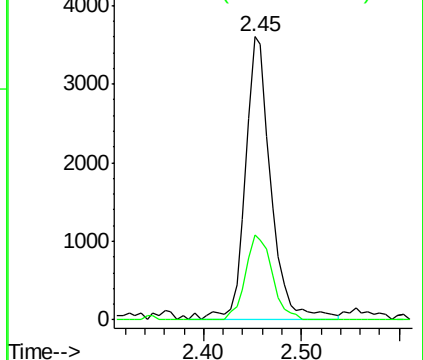
43 100

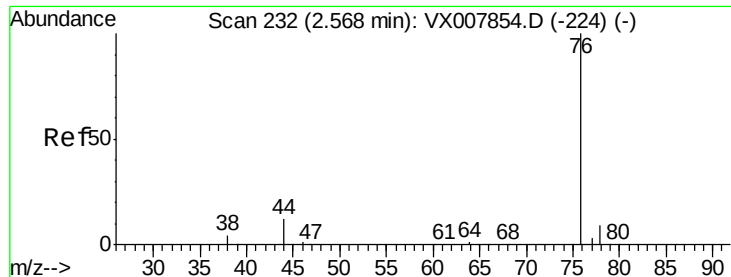
58 30.2 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

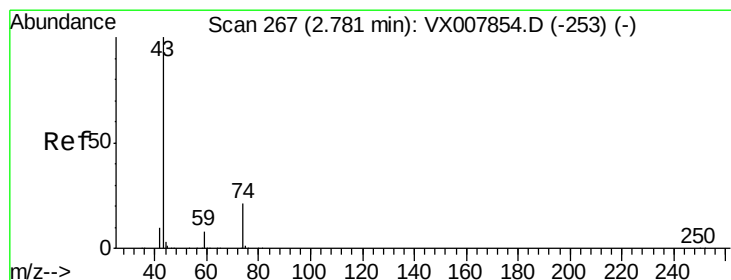
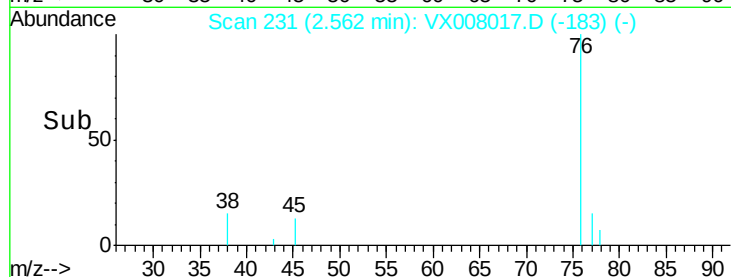
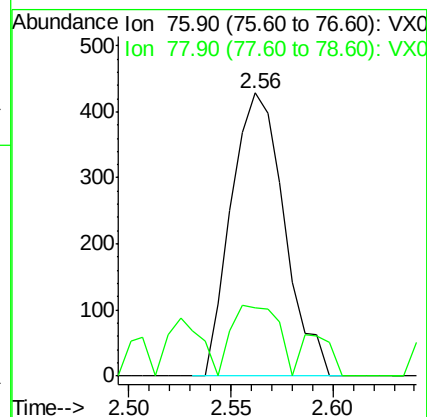
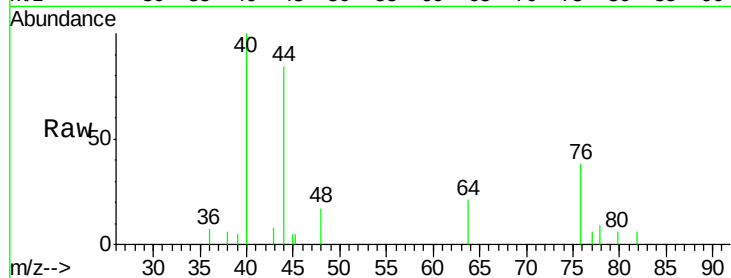
RE122D1-20190308DL

Tot Ion: 76 Resp: 774

Ion Ratio Lower Upper

76 100

78 24.1 7.2 10.8#



#18

Methyl Acetate

Concen: 0.264 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX008017.D

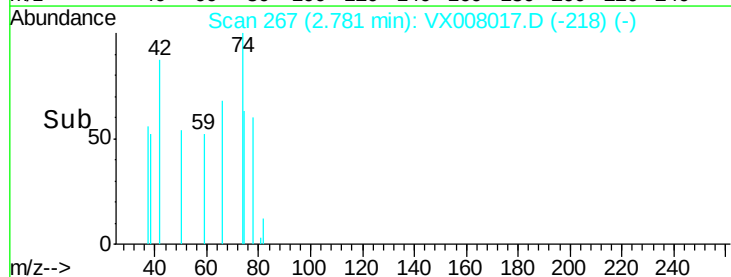
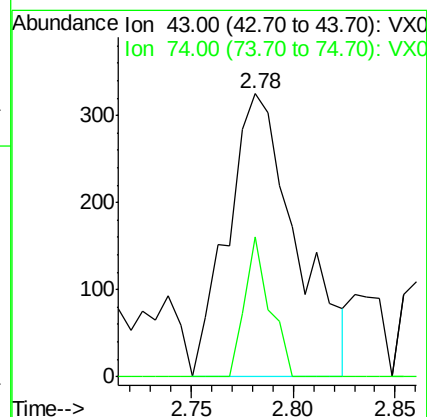
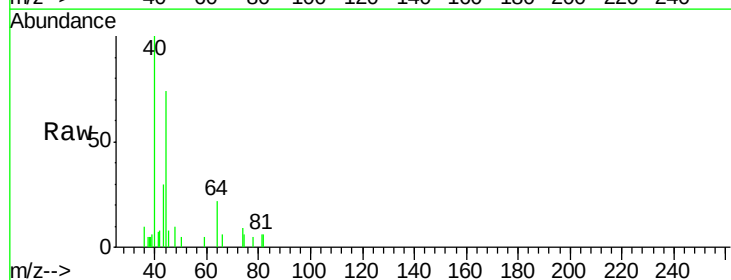
Acq: 12 Mar 2019 15:41

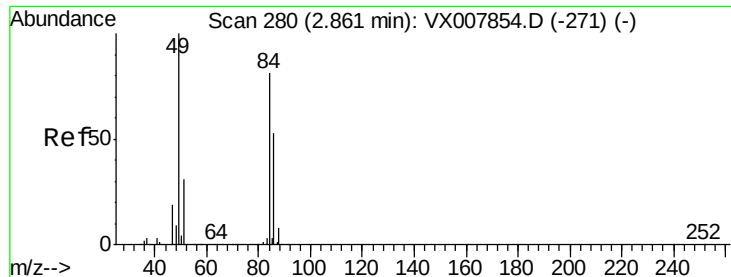
Tgt Ion: 43 Resp: 759

Ion Ratio Lower Upper

43 100

74 18.1 17.8 26.6

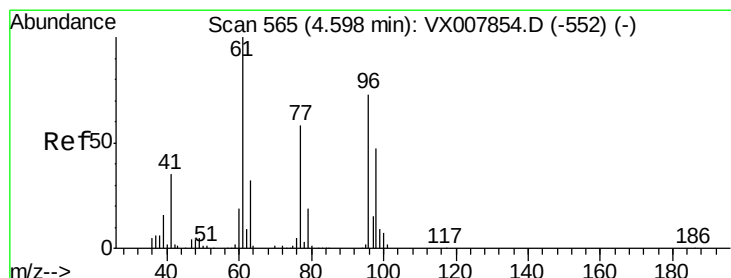
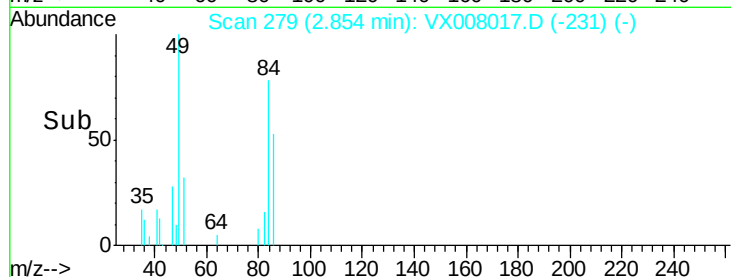
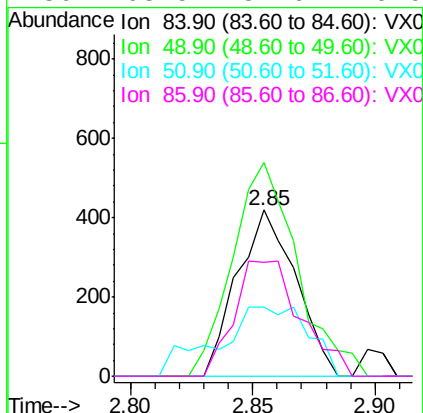
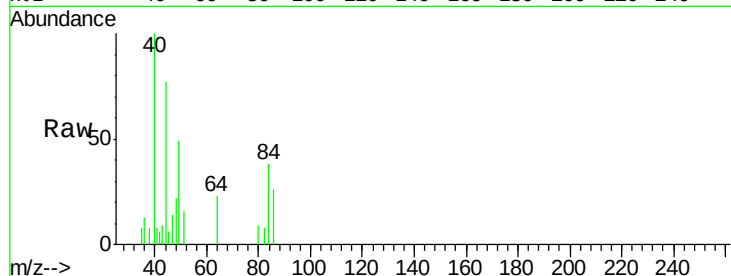




#20
Methylene Chloride
Concen: 0.323 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008017.D
Acq: 12 Mar 2019 15:41

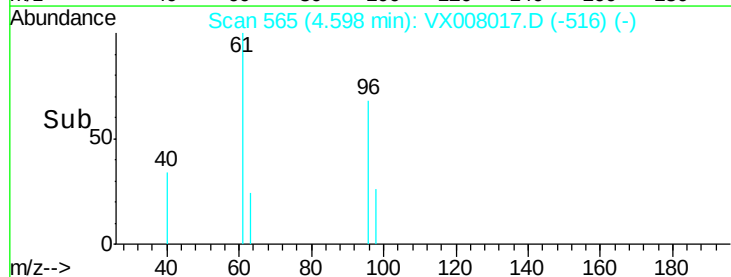
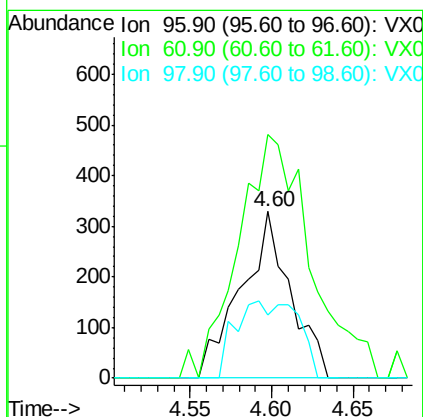
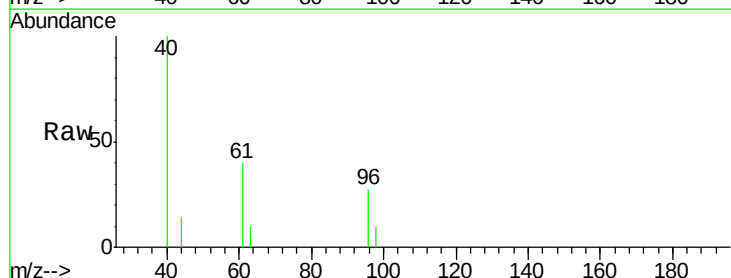
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20190308DL

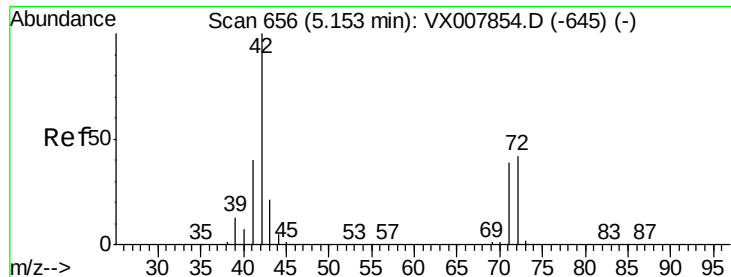
Tot Ion:	84	Resp:	697
Ion	Ratio	Lower	Upper
84	100		
49	128.6	99.3	148.9
51	41.3	31.3	46.9
86	68.5	52.6	79.0



#27
cis-1,2-Dichloroethene
Concen: 0.291 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008017.D
Acq: 12 Mar 2019 15:41

Tgt Ion:	96	Resp:	692
Ion	Ratio	Lower	Upper
96	100		
61	214.5	0.0	288.0
98	33.2	0.0	129.0





#29

Tetrahydrofuran

Concen: 0.348 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20190308DL

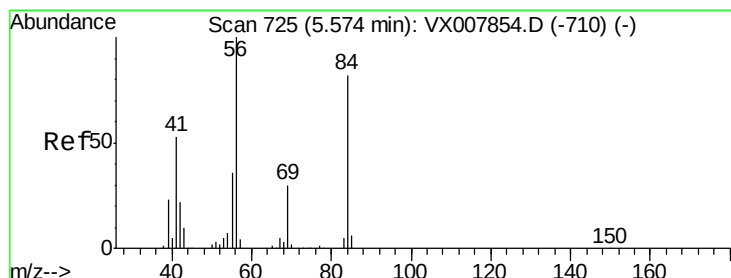
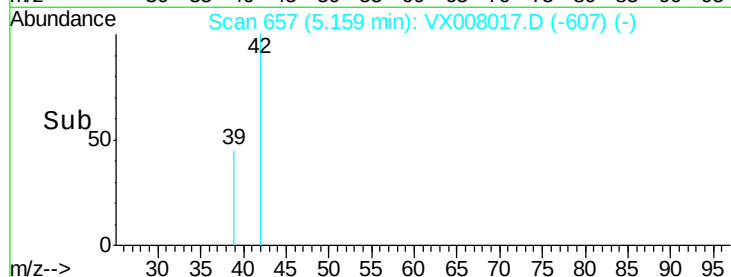
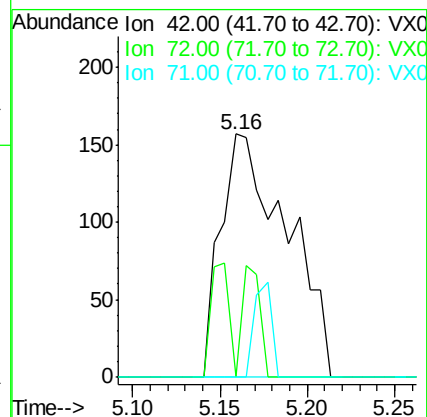
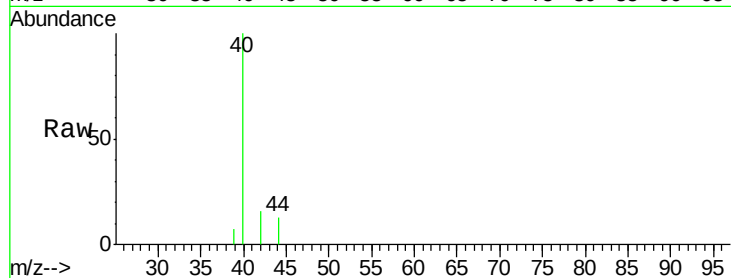
Tot Ion: 42 Resp: 416

Ion Ratio Lower Upper

42 100

72 12.0 33.8 50.6#

71 10.1 31.5 47.3#



#31

Cyclohexane

Concen: 0.924 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

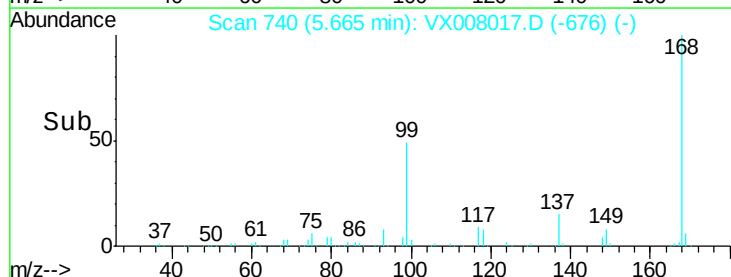
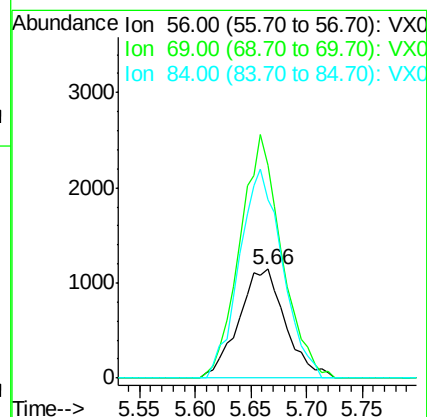
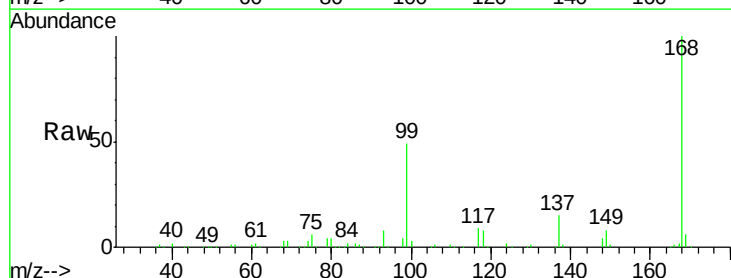
Tgt Ion: 56 Resp: 3325

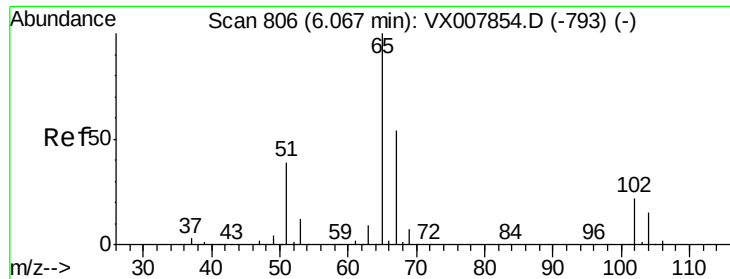
Ion Ratio Lower Upper

56 100

69 195.3 24.0 36.0#

84 163.8 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 52.690 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

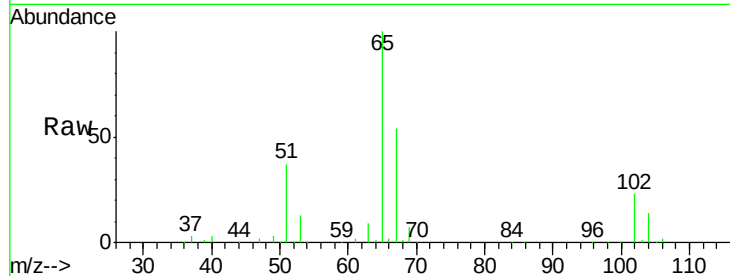
RE122D1-20190308DL

Tot Ion: 65 Resp: 123362

Ion Ratio Lower Upper

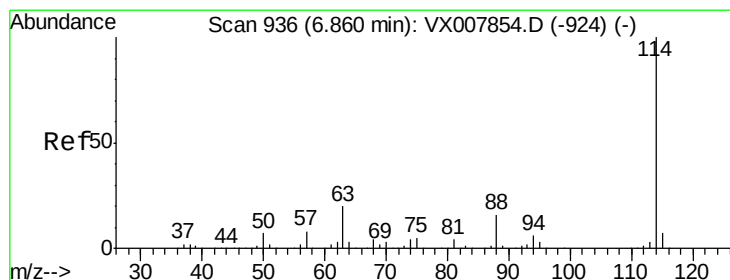
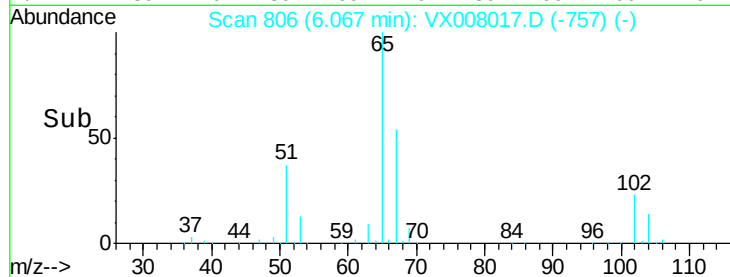
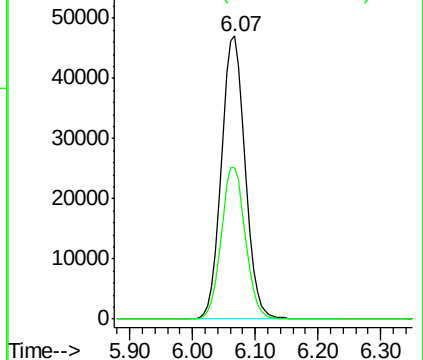
65 100

67 54.5 0.0 110.0



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

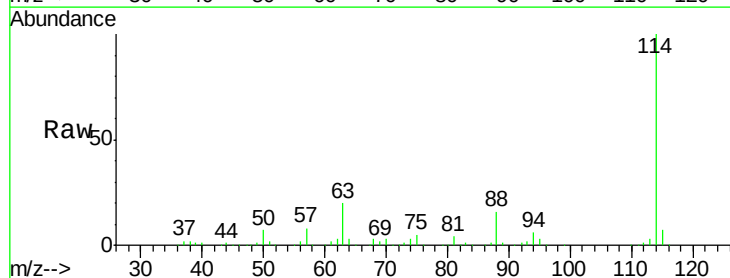
Tgt Ion: 114 Resp: 346891

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.8

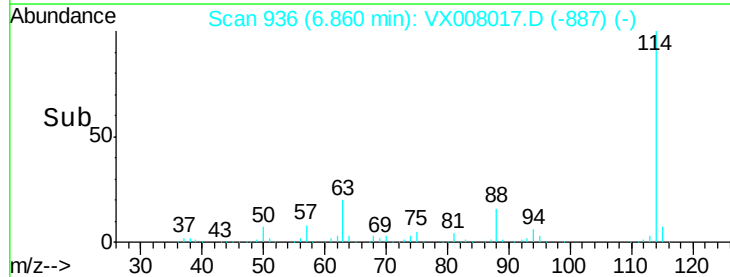
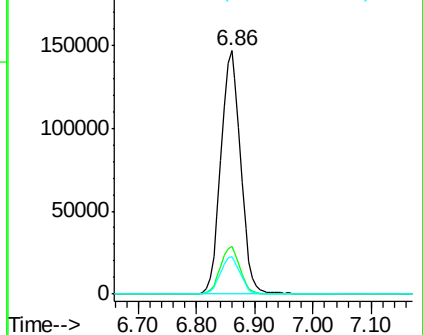
88 15.5 0.0 31.4

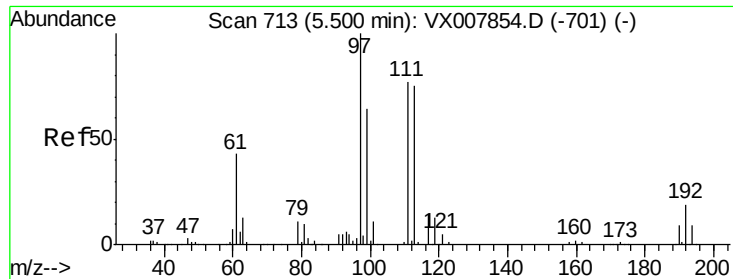


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.629 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20190308DL

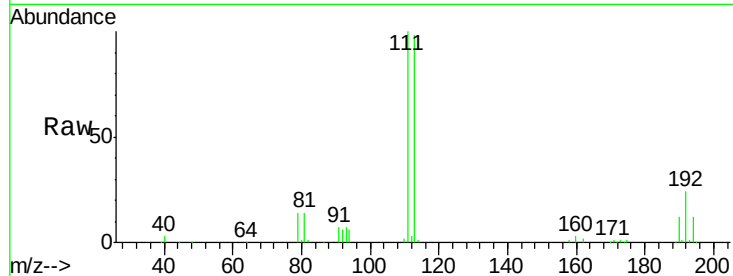
Tot Ion:113 Resp: 112344

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

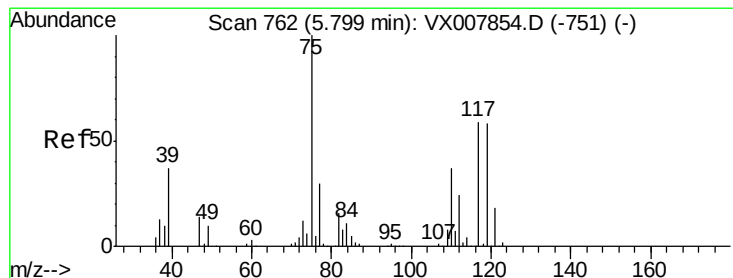
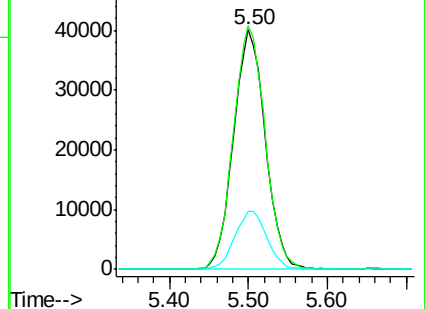
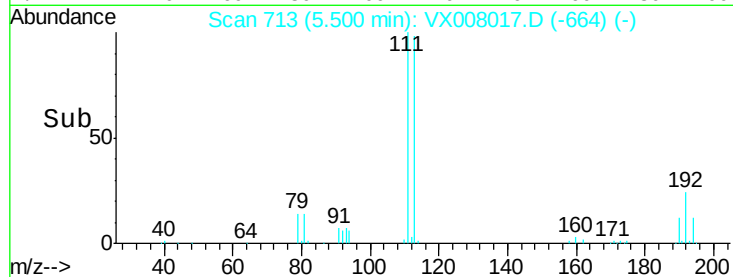
192 24.6 19.4 29.0



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: 4.340 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

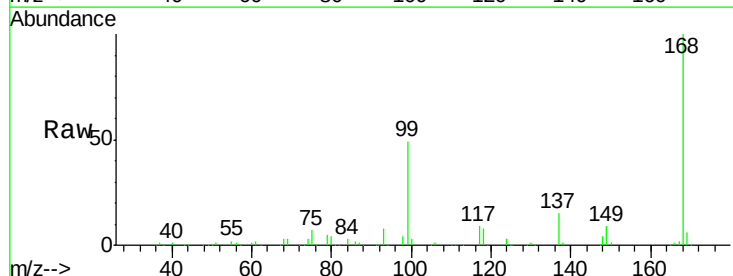
Tgt Ion: 75 Resp: 13632

Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.0#

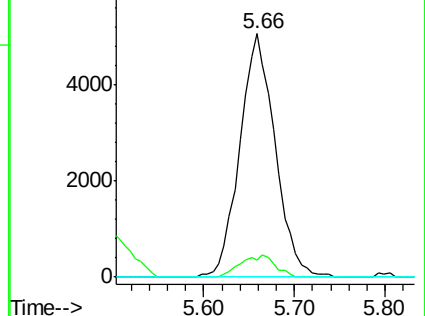
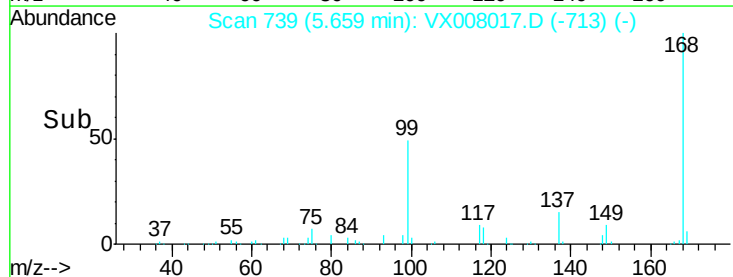
77 0.0 25.0 37.4#

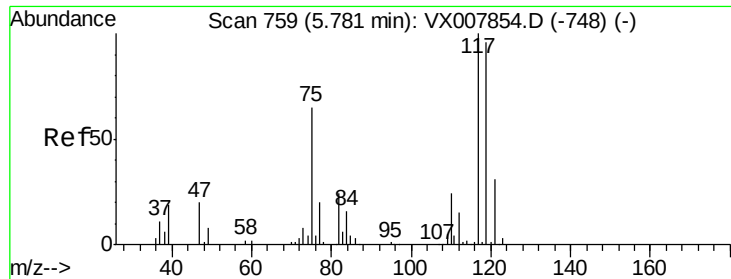


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.364 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20190308DL

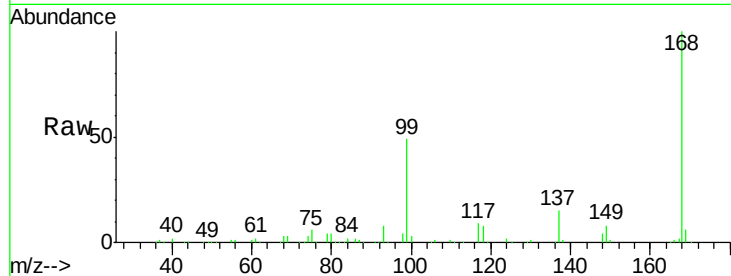
Tot Ion:117 Resp: 18977

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

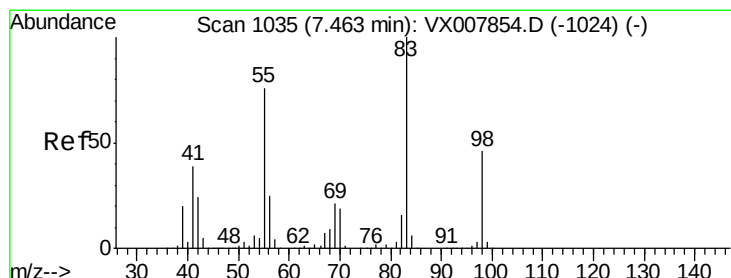
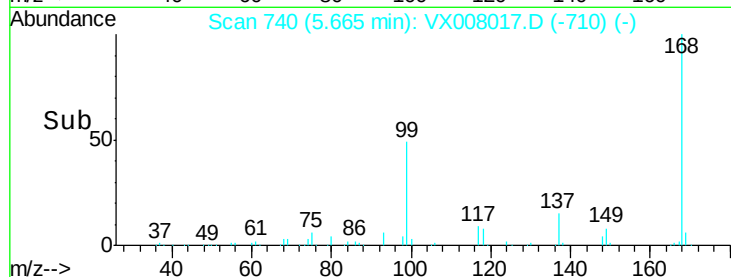
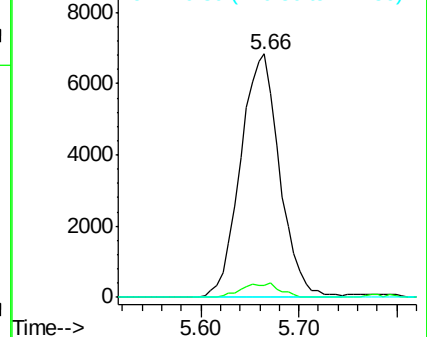
121 0.0 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 0.451 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

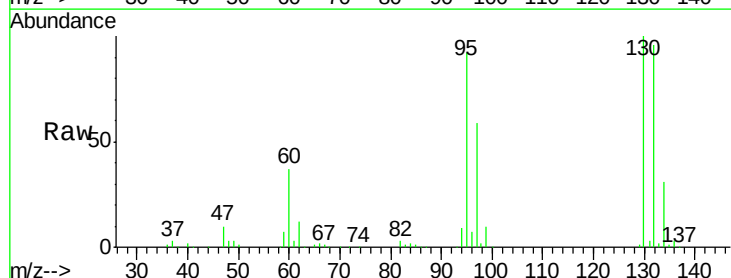
Tgt Ion: 83 Resp: 1717

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

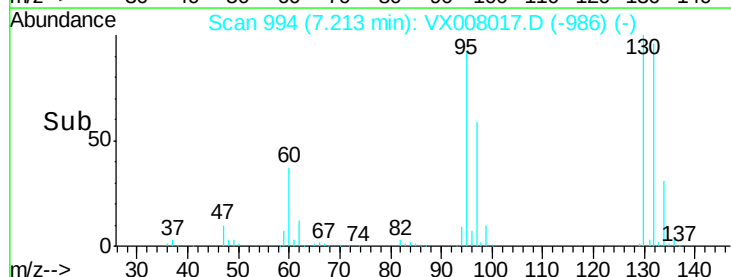
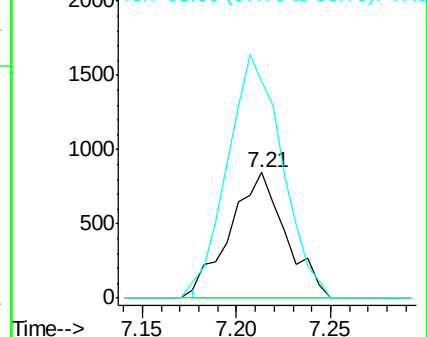
98 173.3 36.5 54.7#

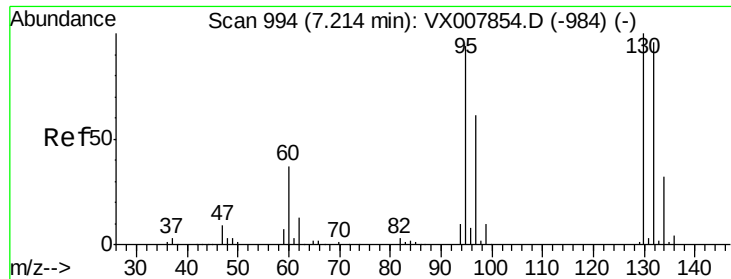


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 55.601 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

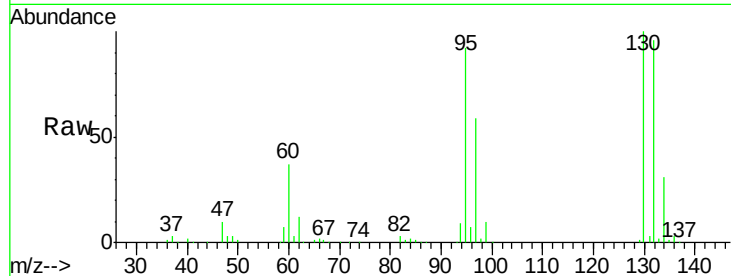
RE122D1-20190308DL

Tot Ion:130 Resp: 143283

Ion Ratio Lower Upper

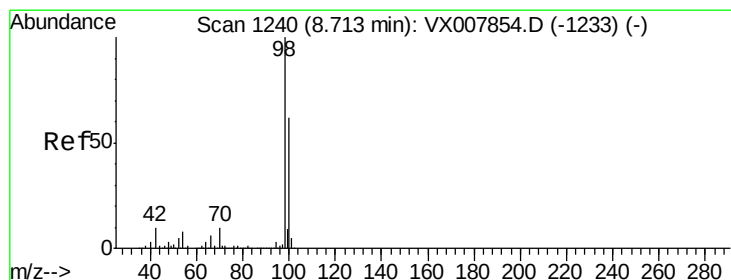
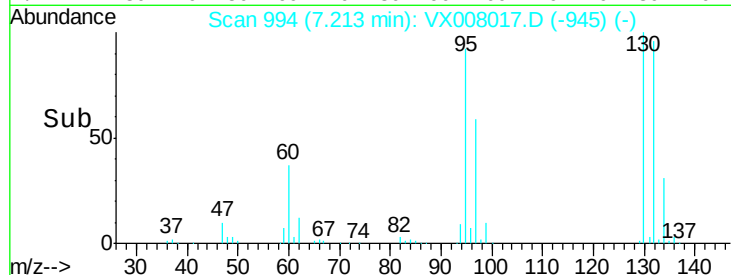
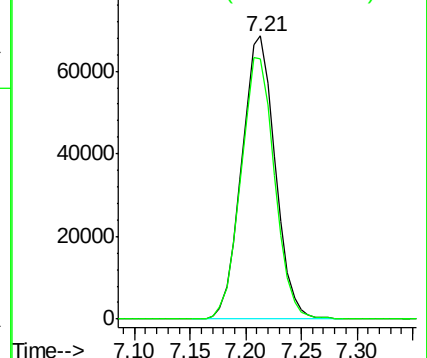
130 100

95 91.8 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.718 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008017.D

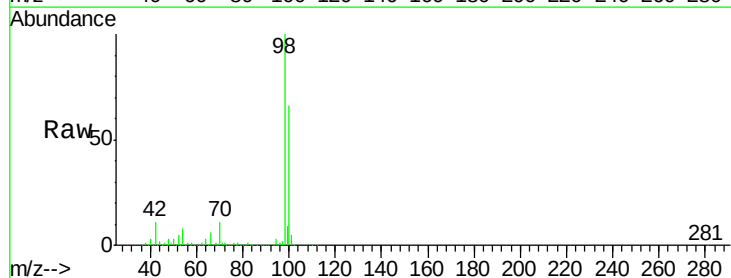
Acq: 12 Mar 2019 15:41

Tgt Ion: 98 Resp: 421459

Ion Ratio Lower Upper

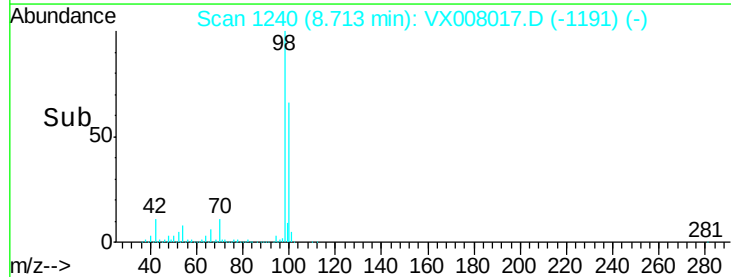
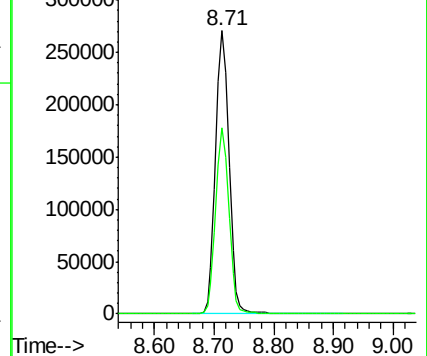
98 100

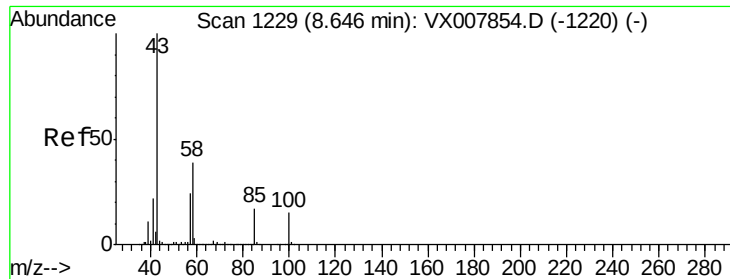
100 64.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

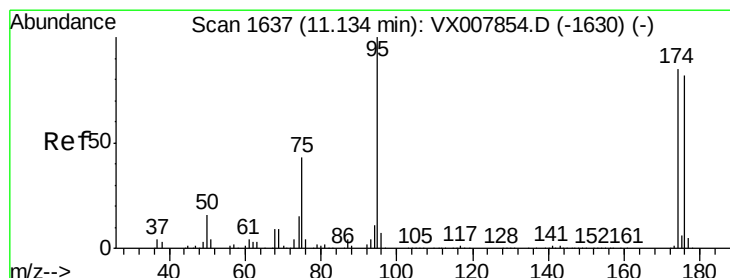
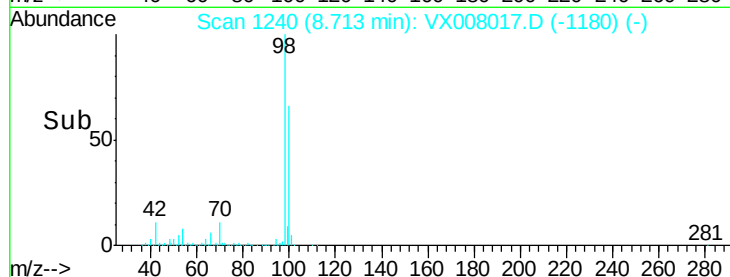
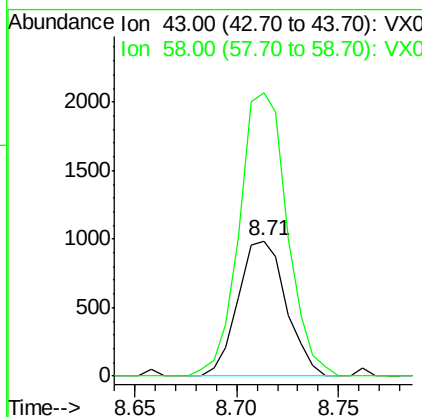
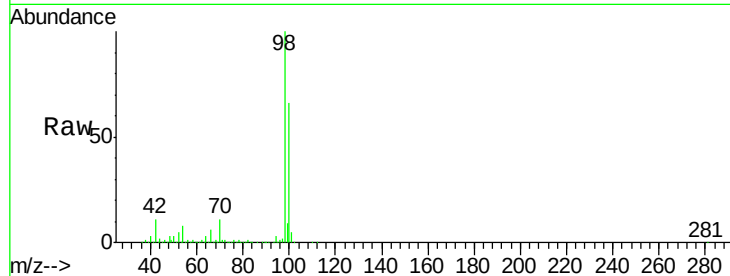




#51
 4-Methyl-2-Pentanone
 Concen: 0.455 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.07 min
 Lab File: VX008017.D
 Acq: 12 Mar 2019 15:41

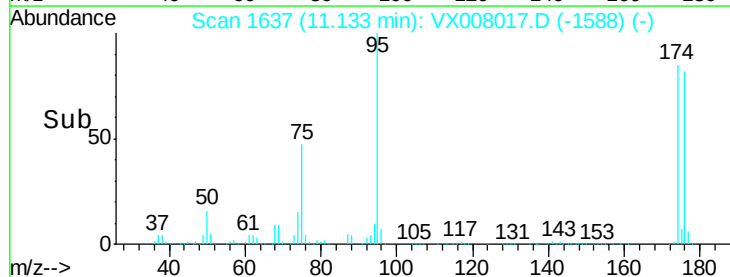
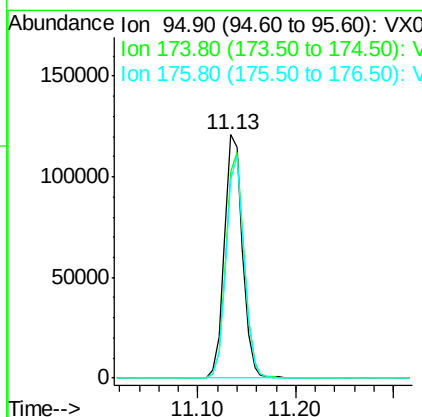
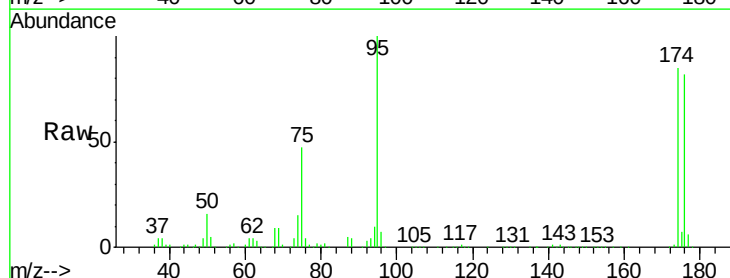
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20190308DL

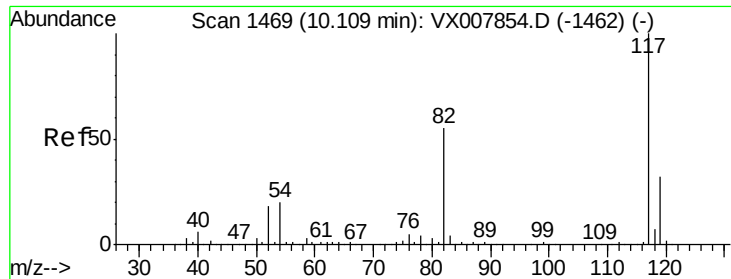
Tot Ion: 43 Resp: 1613
 Ion Ratio Lower Upper
 43 100
 58 209.1 31.3 46.9#



#62
 4-Bromofluorobenzene
 Concen: 54.406 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008017.D
 Acq: 12 Mar 2019 15:41

Tgt Ion: 95 Resp: 155444
 Ion Ratio Lower Upper
 95 100
 174 93.3 0.0 182.8
 176 90.5 0.0 178.0

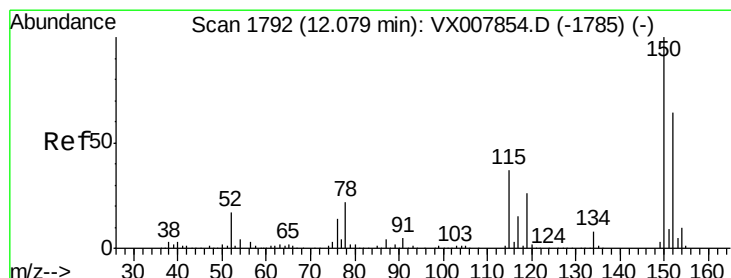
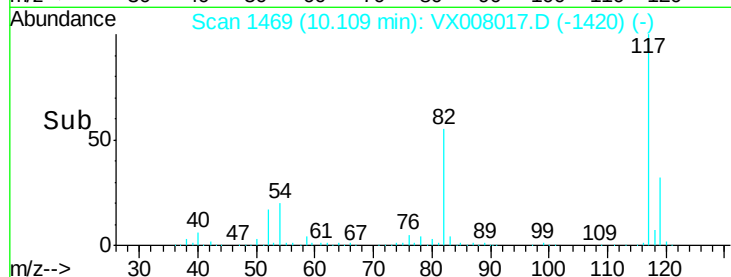
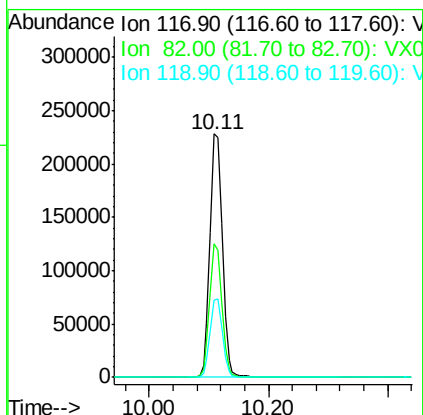
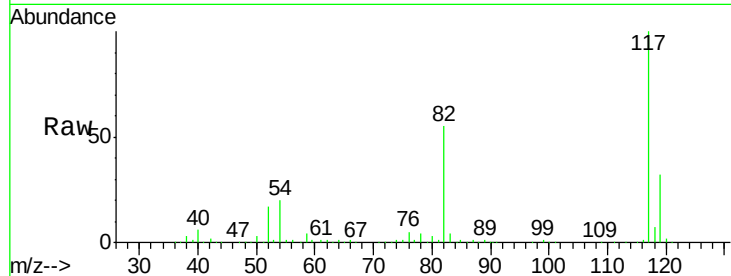




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008017.D
Acq: 12 Mar 2019 15:41

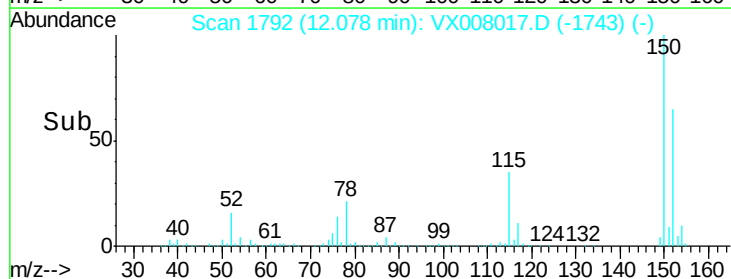
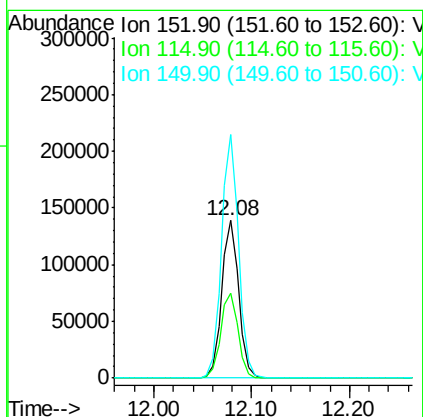
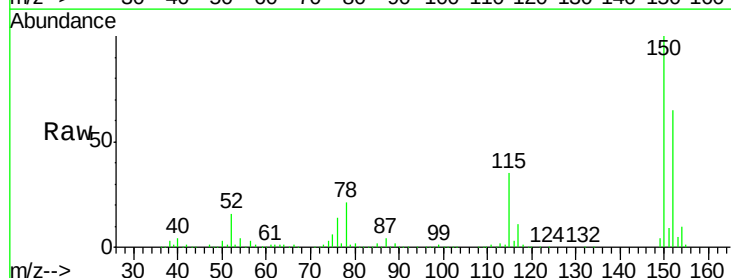
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20190308DL

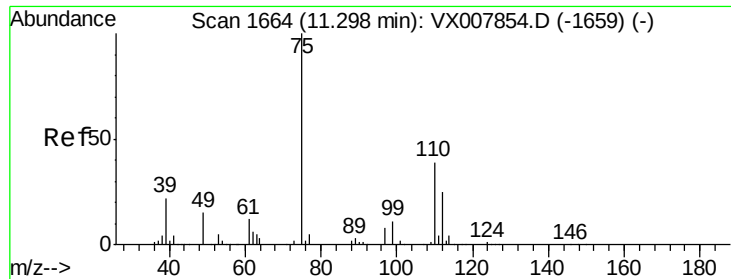
Tot Ion:117 Resp: 324390
Ion Ratio Lower Upper
117 100
82 54.9 44.3 66.5
119 31.6 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008017.D
Acq: 12 Mar 2019 15:41

Tgt Ion:152 Resp: 166706
Ion Ratio Lower Upper
152 100
115 55.1 38.6 115.7
150 154.8 0.0 348.4





#76

1,2,3-Trichloropropane

Concen: 20.227 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_X

ClientSampleId :

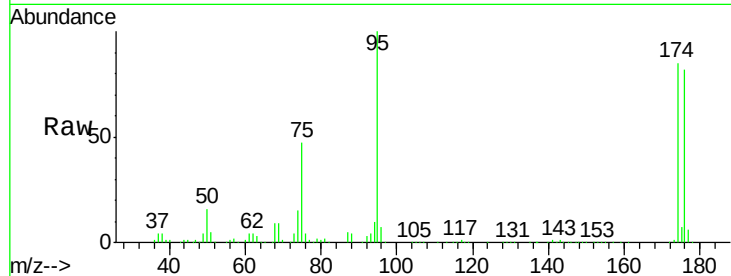
RE122D1-20190308DL

Tot Ion: 75 Resp: 70758

Ion Ratio Lower Upper

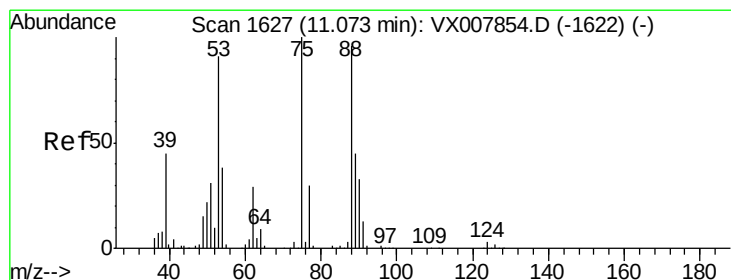
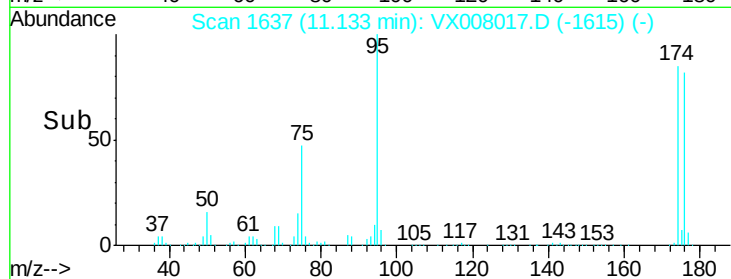
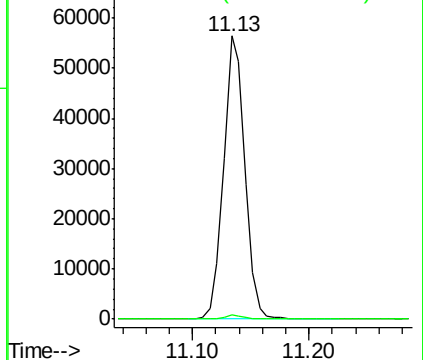
75 100

77 1.4 18.9 56.7#



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: 64.656 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008017.D

Acq: 12 Mar 2019 15:41

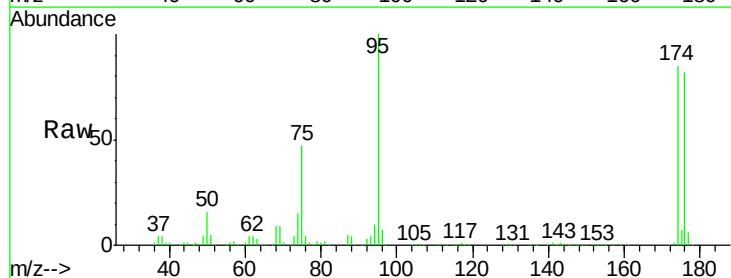
Tgt Ion: 75 Resp: 70758

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

