

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100918\
 Data File : VX005204.D
 Acq On : 10 Oct 2018 12:20
 Operator : JC/MD
 Sample : J5303-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP07-20181004

Quant Time: Oct 10 13:57:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	170074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	270200	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	268125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	149712	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	132031	54.34	ug/l	0.00
Spiked Amount			Recovery	=	108.68%	
35) Dibromofluoromethane	5.50	113	113304	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	8.72	98	394722	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.14	95	138600	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	

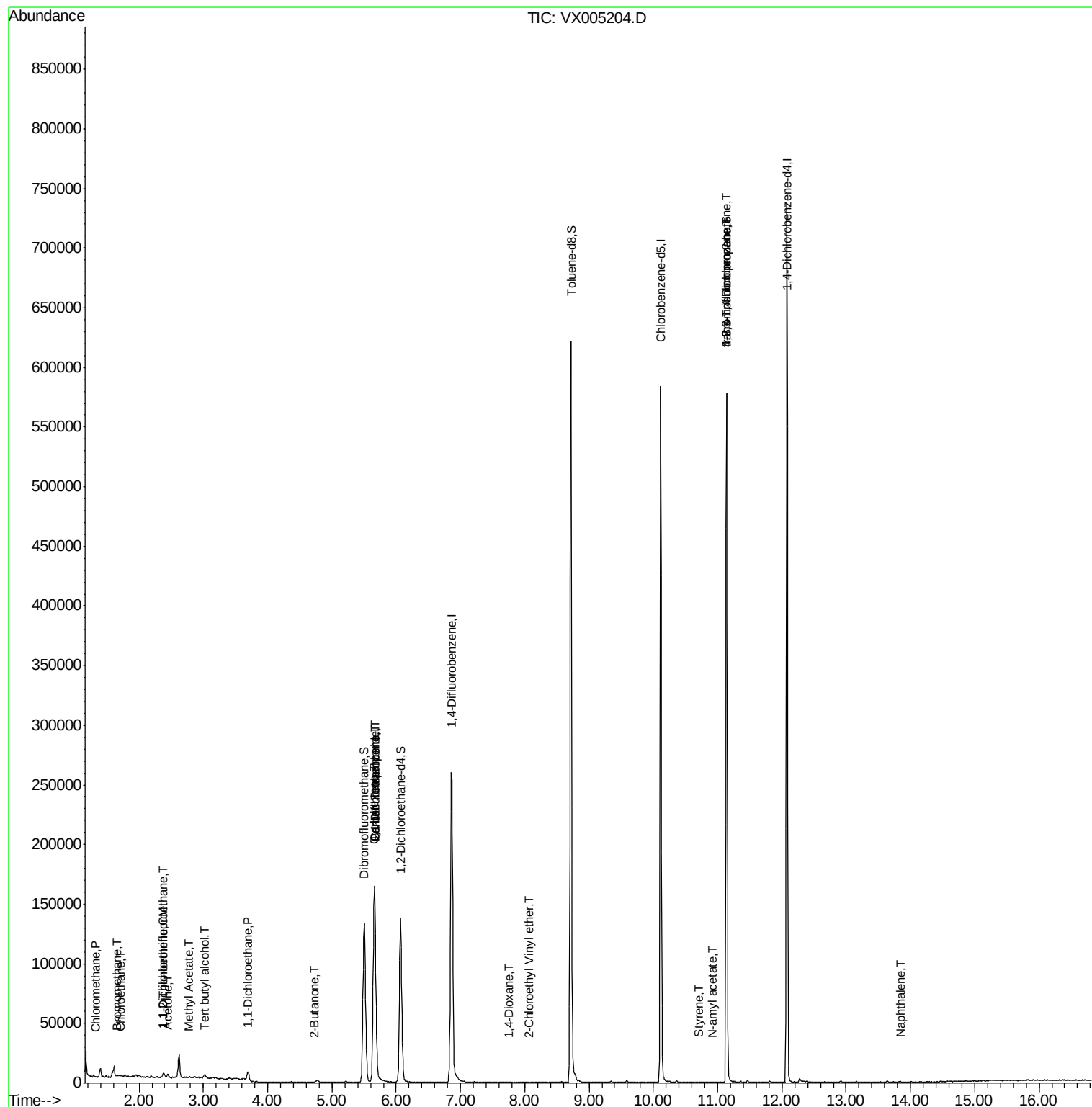
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	568	0.20	ug/l	93
5) Bromomethane	1.65	94	378	0.24	ug/l #	65
6) Chloroethane	1.72	64	3827	0.35	ug/l #	45
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1133	0.61	ug/l	94
11) Tert butyl alcohol	3.01	59	2150	3.16	ug/l #	72
12) 1,1-Dichloroethene	2.38	96	473	0.26	ug/l #	69
16) Acetone	2.44	43	2540	1.79	ug/l #	88
18) Methyl Acetate	2.78	43	739	0.21	ug/l #	72
20) Methylene Chloride	2.85	84	384	Below Cal	#	86
24) 1,1-Dichloroethane	3.69	63	6347	1.57	ug/l #	93
25) 2-Butanone	4.71	43	517	0.25	ug/l #	49
31) Cyclohexane	5.65	56	3130	1.01	ug/l #	18
36) 1,1-Dichloropropene	5.66	75	11707	3.75	ug/l #	45
38) Carbon Tetrachloride	5.67	117	15273	4.65	ug/l #	19
49) 1,4-Dioxane	7.76	88	45	0.67	ug/l #	66
58) 2-Chloroethyl Vinyl ether	8.07	63	28	14.26	ug/l #	49
70) Styrene	10.71	104	42	2.15	ug/l #	25
74) N-amyl acetate	10.91	43	24	1.75	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	69575	20.73	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	191	Below Cal	#	44
81) trans-1,4-Dichloro-2-buten	11.14	75	69575	56.29	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	365	Below Cal		83
95) Naphthalene	13.83	128	552	0.76	ug/l #	89

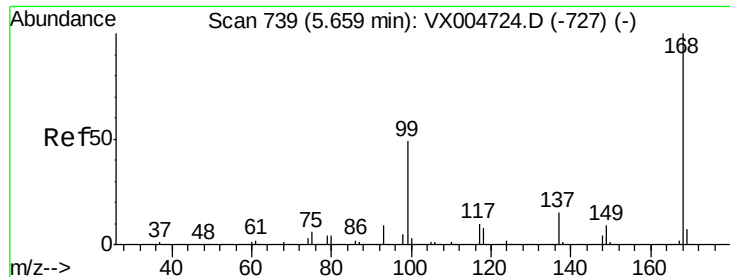
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 10 13:57:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

Instrument :

MSVOA_X

ClientSampleId :

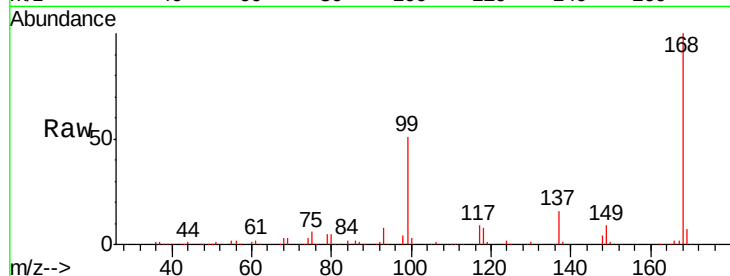
SA-DUP07-20181004

Tgt Ion:168 Resp: 170074

Ion Ratio Lower Upper

168 100

99 50.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

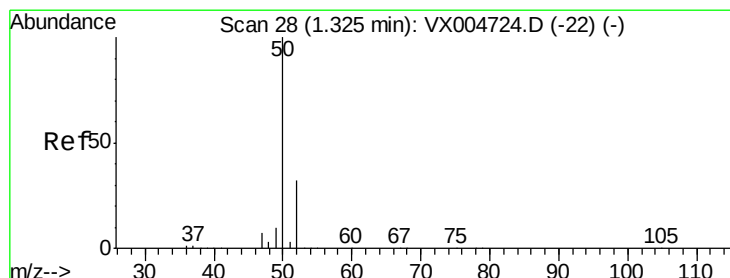
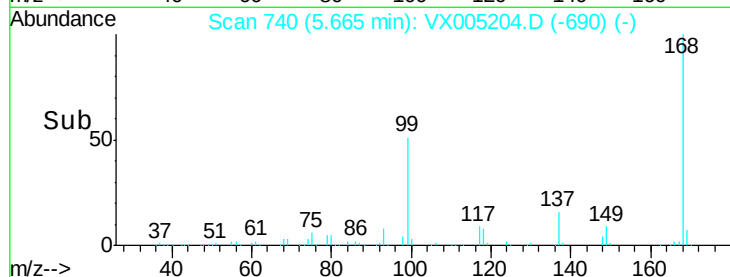
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.20 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005204.D

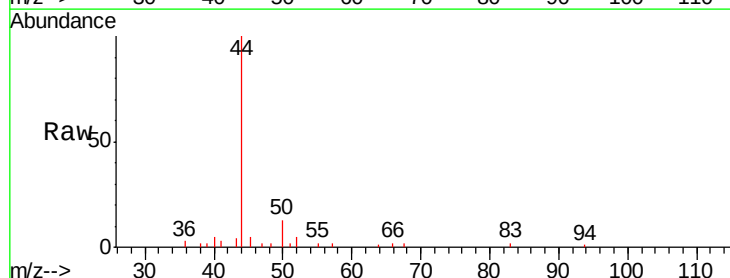
Acq: 10 Oct 2018 12:20

Tgt Ion: 50 Resp: 568

Ion Ratio Lower Upper

50 100

52 36.3 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

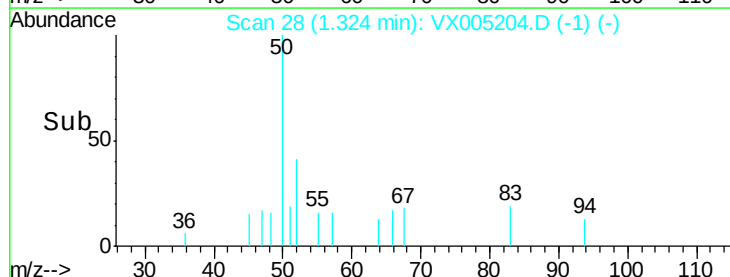
300

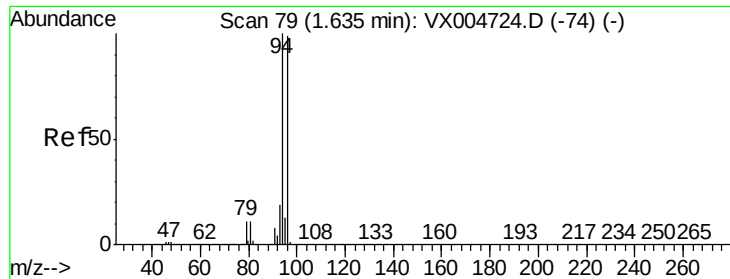
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.24 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

Instrument :

MSVOA_X

ClientSampleId :

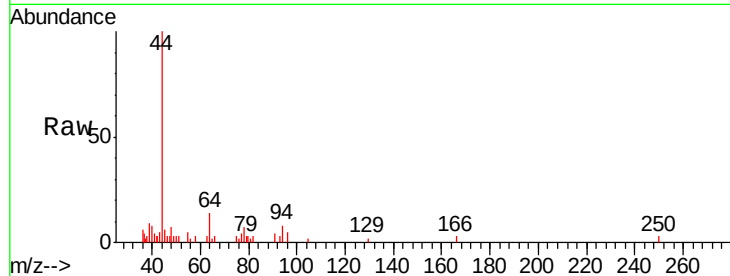
SA-DUP07-20181004

Tgt Ion: 94 Resp: 378

Ion Ratio Lower Upper

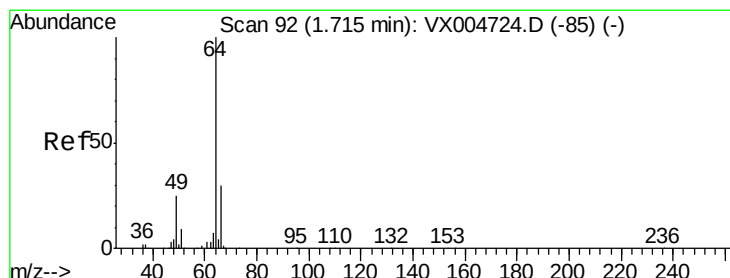
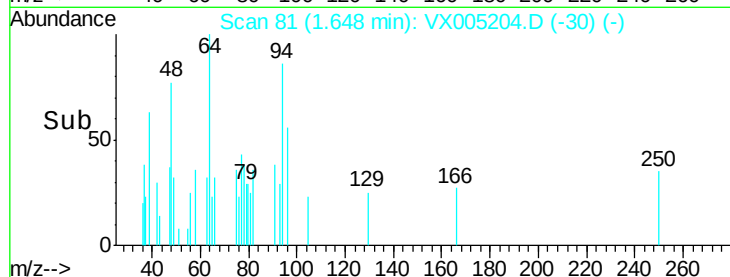
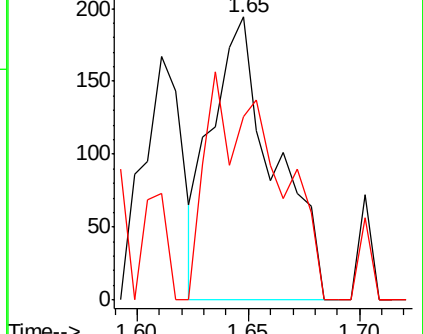
94 100

96 64.9 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.35 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005204.D

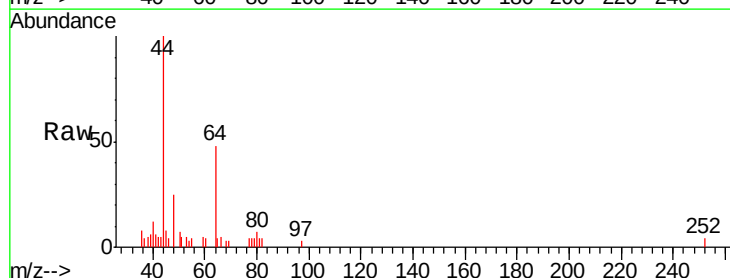
Acq: 10 Oct 2018 12:20

Tgt Ion: 64 Resp: 3827

Ion Ratio Lower Upper

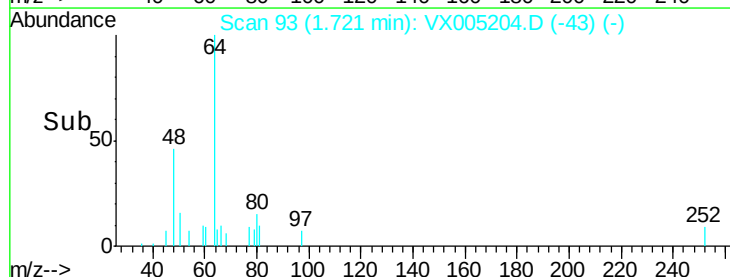
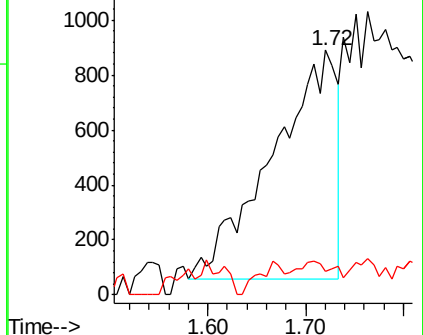
64 100

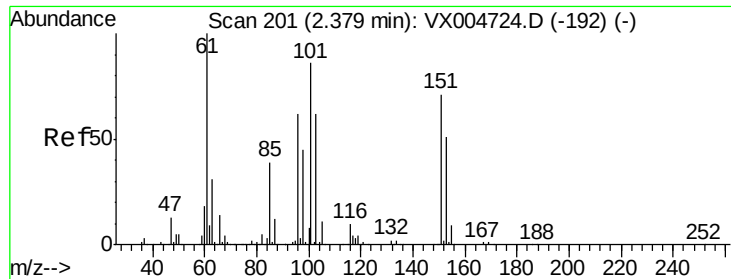
66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.61 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP07-20181004

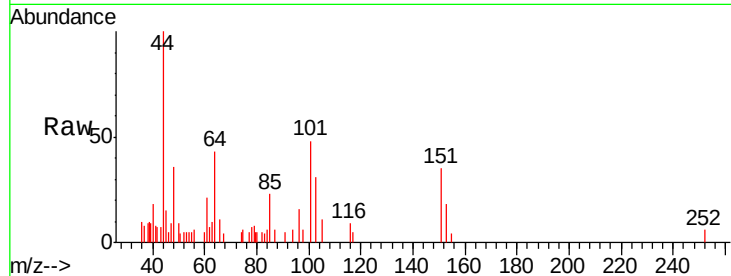
Tgt Ion:101 Resp: 1133

Ion Ratio Lower Upper

101 100

85 48.4 35.9 53.9

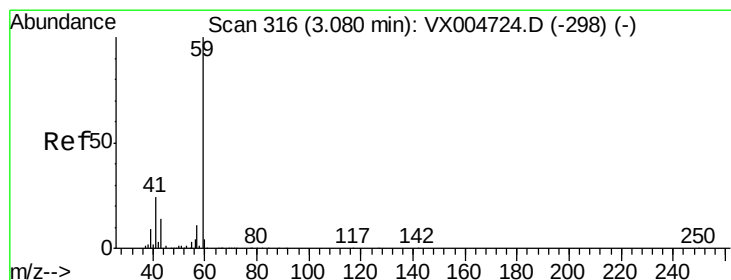
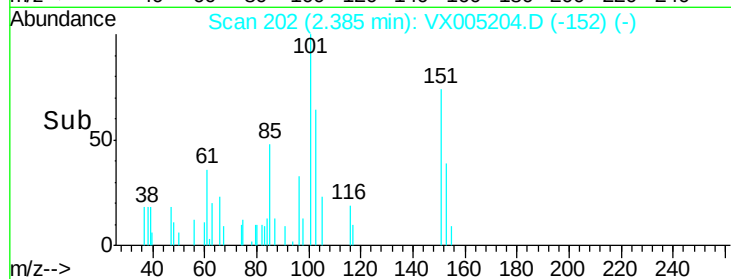
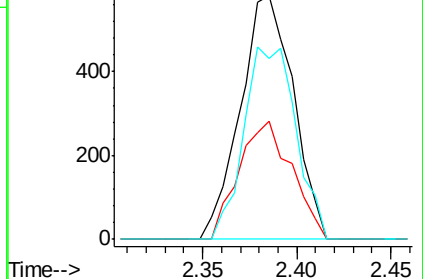
151 77.7 66.6 100.0



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: 3.16 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.07 min

Lab File: VX005204.D

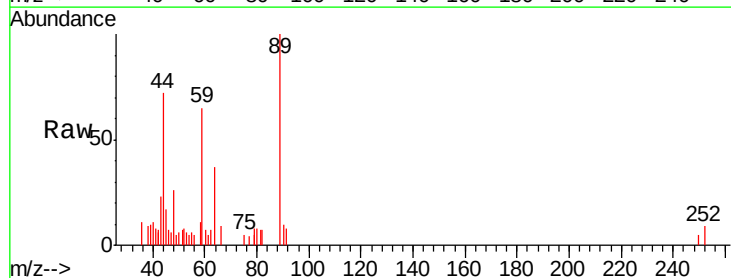
Acq: 10 Oct 2018 12:20

Tgt Ion: 59 Resp: 2150

Ion Ratio Lower Upper

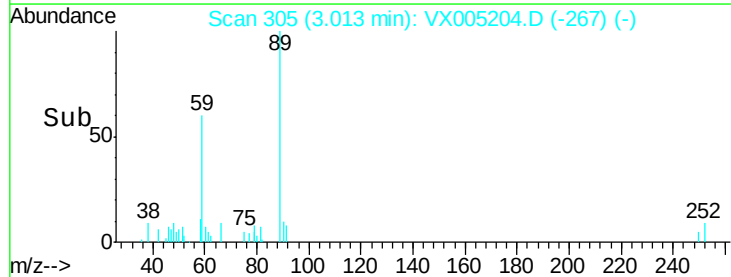
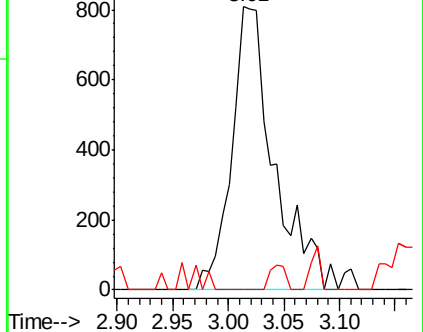
59 100

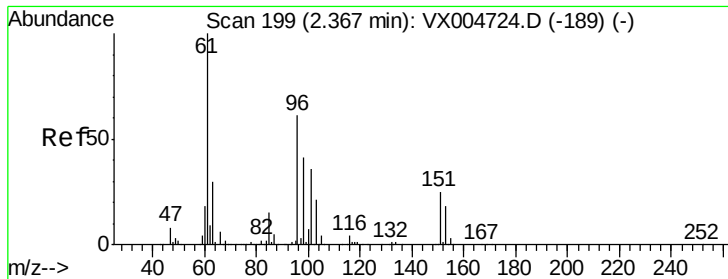
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

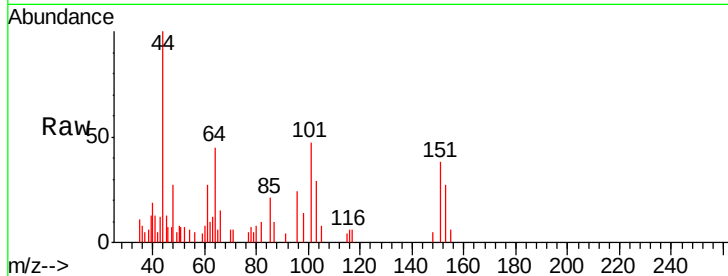




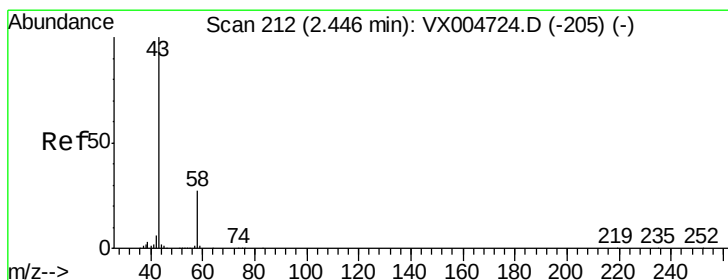
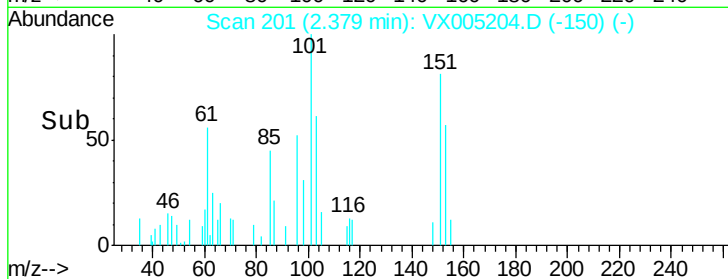
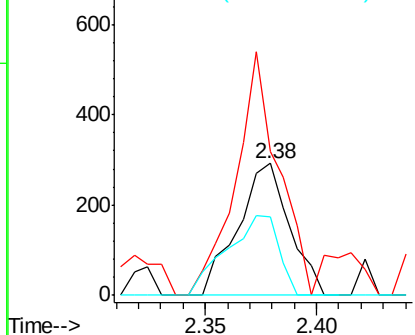
#12
 1,1-Dichloroethene
 Concen: 0.26 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX005204.D
 Acq: 10 Oct 2018 12:20

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP07-20181004

Tgt Ion: 96 Resp: 473
 Ion Ratio Lower Upper
 96 100
 61 108.9 130.2 195.4#
 98 59.2 53.4 80.0

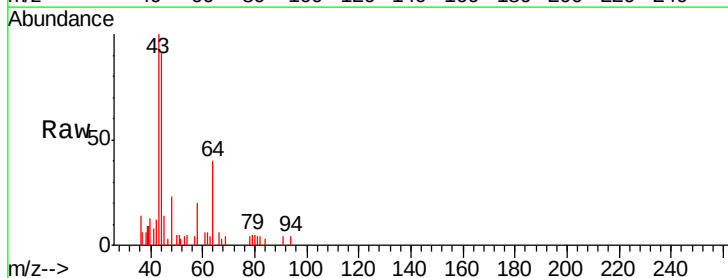


Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

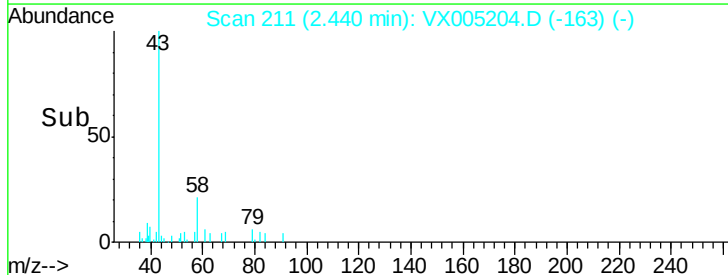
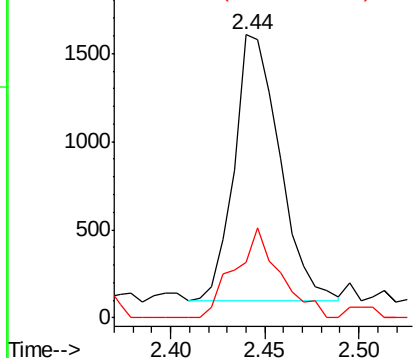


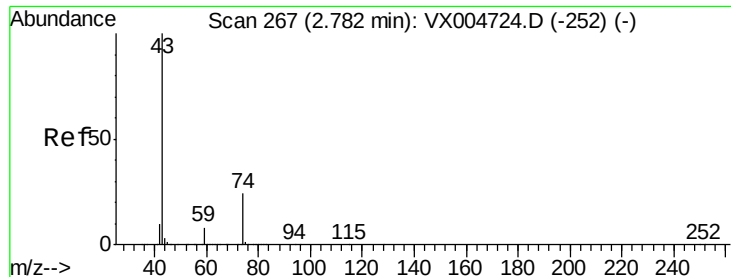
#16
 Acetone
 Concen: 1.79 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX005204.D
 Acq: 10 Oct 2018 12:20

Tgt Ion: 43 Resp: 2540
 Ion Ratio Lower Upper
 43 100
 58 21.0 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

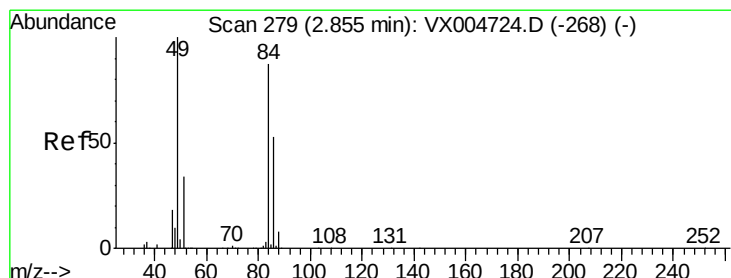
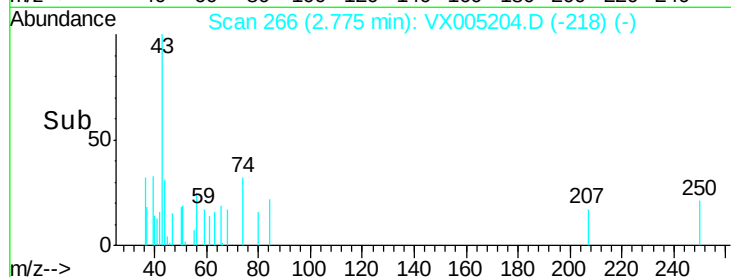
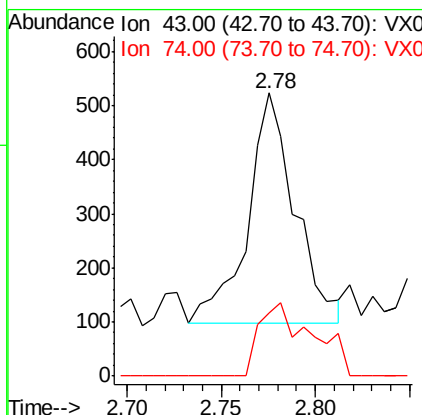
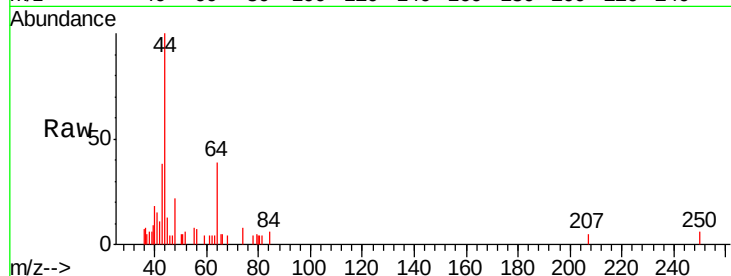




#18
Methyl Acetate
Concen: 0.21 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005204.D
Acq: 10 Oct 2018 12:20

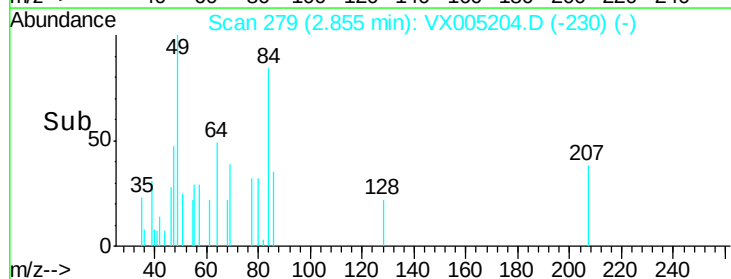
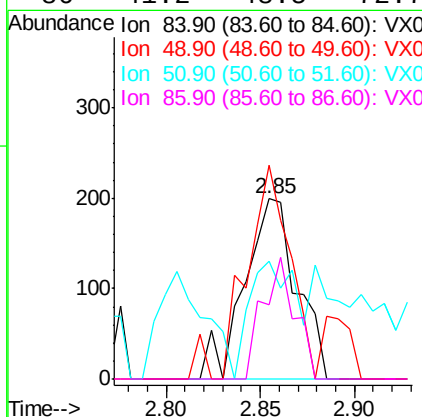
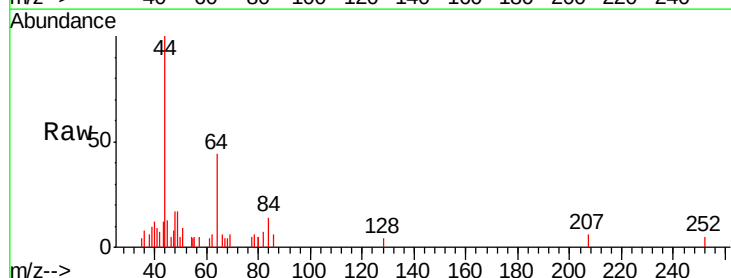
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP07-20181004

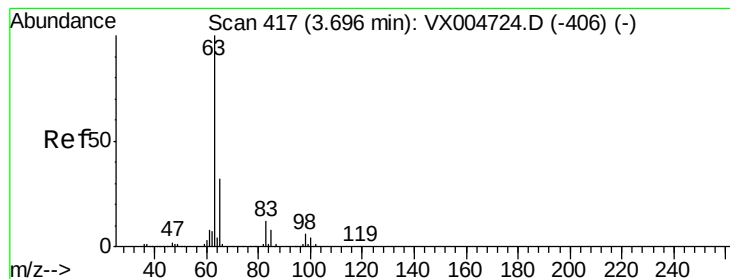
Tgt Ion: 43 Resp: 739
Ion Ratio Lower Upper
43 100
74 35.6 17.8 26.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005204.D
Acq: 10 Oct 2018 12:20

Tgt Ion: 84 Resp: 384
Ion Ratio Lower Upper
84 100
49 118.6 92.3 138.5
51 22.6 31.8 47.6#
86 41.2 48.5 72.7#





#24

1,1-Dichloroethane

Concen: 1.57 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

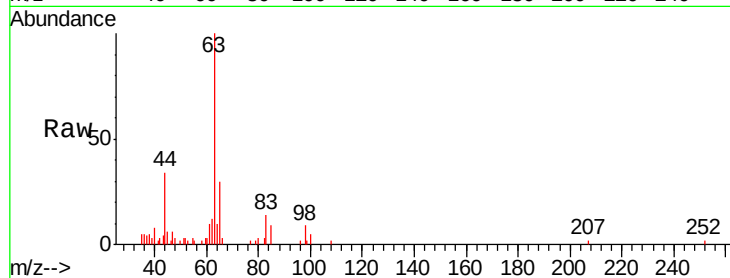
Instrument :

MSVOA_X

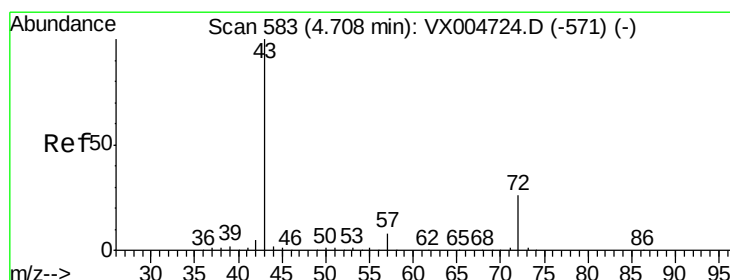
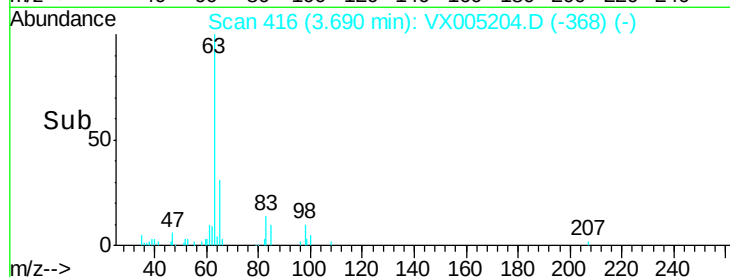
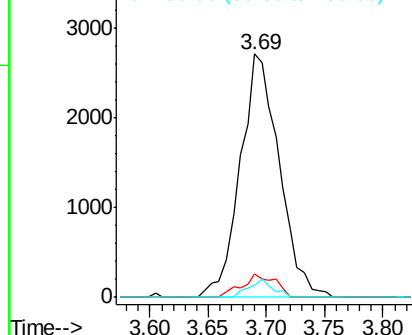
ClientSampleId :

SA-DUP07-20181004

Tgt Ion:	63	Resp:	6347
Ion	Ratio	Lower	Upper
63	100		
98	9.5	3.0	9.2#
100	4.7	2.0	5.8



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.25 ug/l

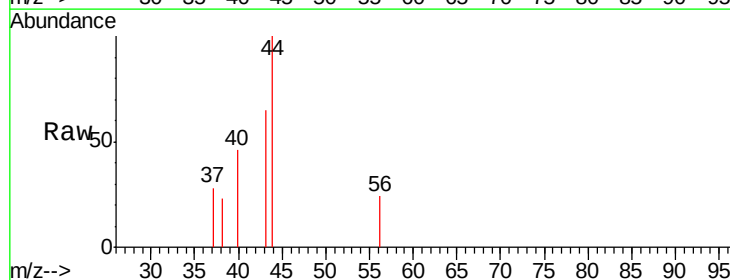
RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

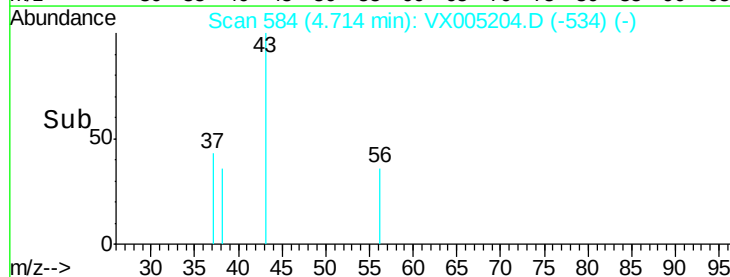
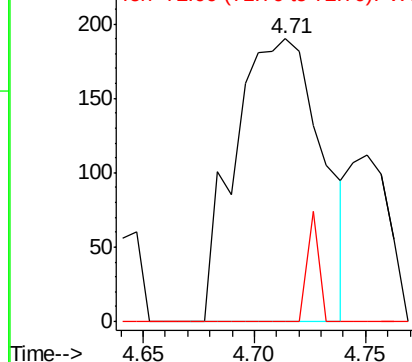
Lab File: VX005204.D

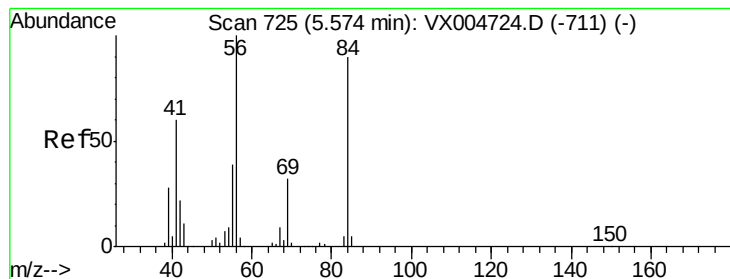
Acq: 10 Oct 2018 12:20

Tgt Ion:	43	Resp:	517
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.8	31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 1.01 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP07-20181004

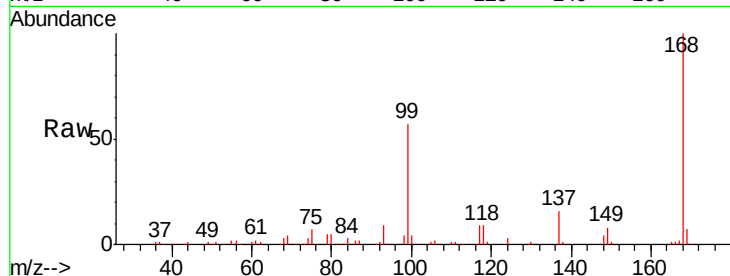
Tgt Ion: 56 Resp: 3130

Ion Ratio Lower Upper

56 100

69 170.6 25.9 38.9#

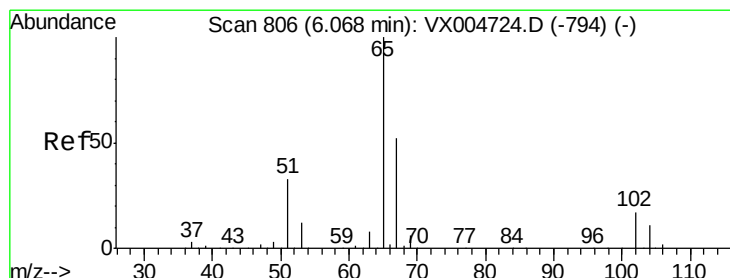
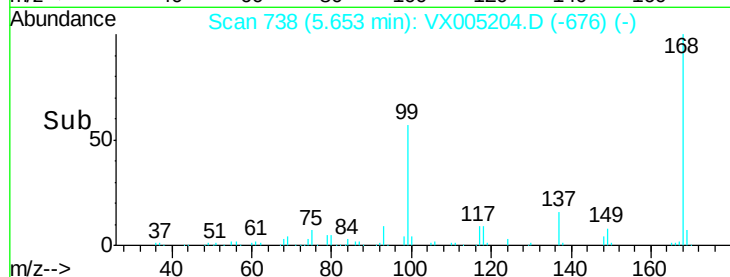
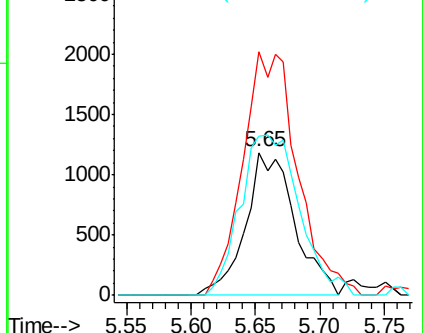
84 111.1 71.9 107.9#



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: 54.34 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005204.D

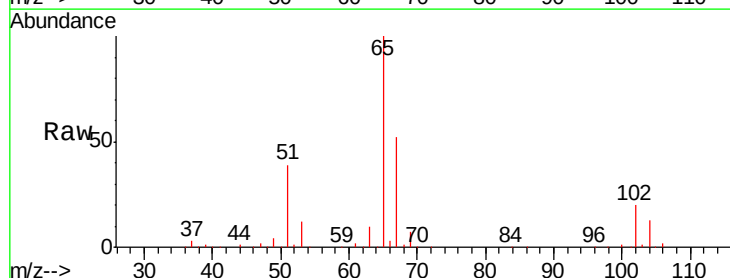
Acq: 10 Oct 2018 12:20

Tgt Ion: 65 Resp: 132031

Ion Ratio Lower Upper

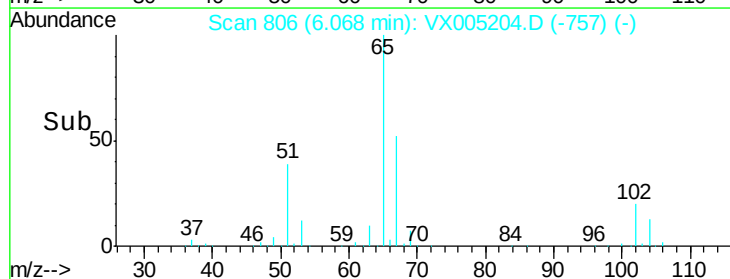
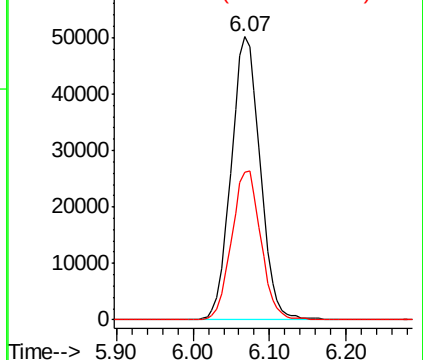
65 100

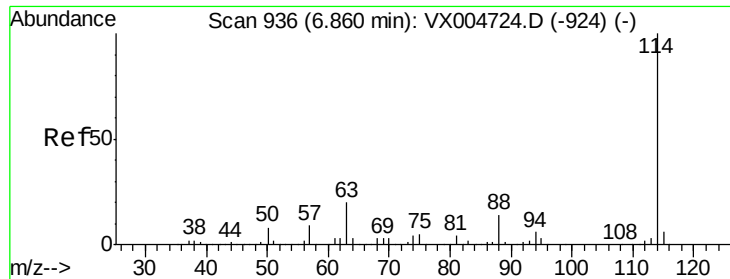
67 52.9 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

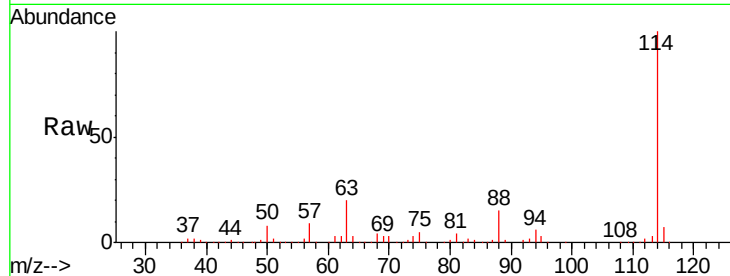
Instrument :

MSVOA_X

ClientSampleId :

SA-DUP07-20181004

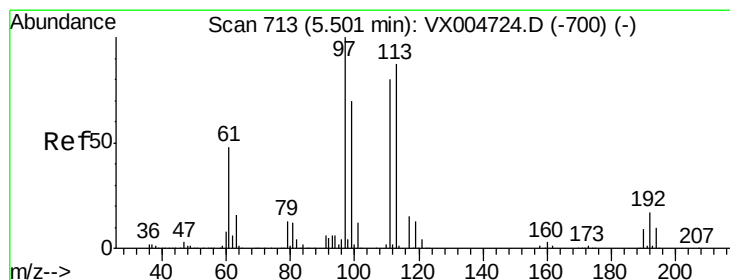
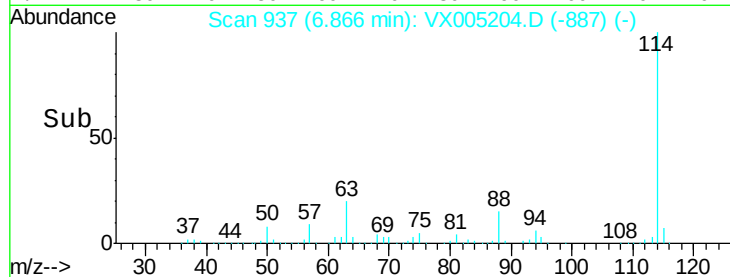
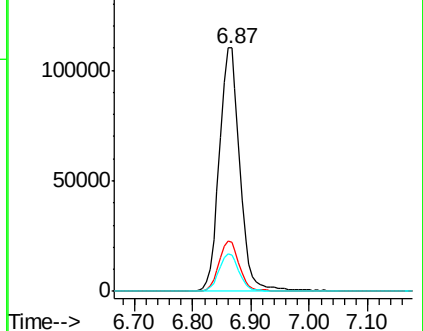
Tgt Ion:	114	Resp:	270200
Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	39.8
88	15.0	0.0	27.0



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: 49.48 ug/l

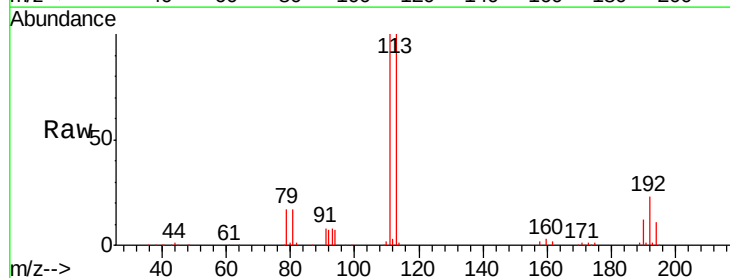
RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

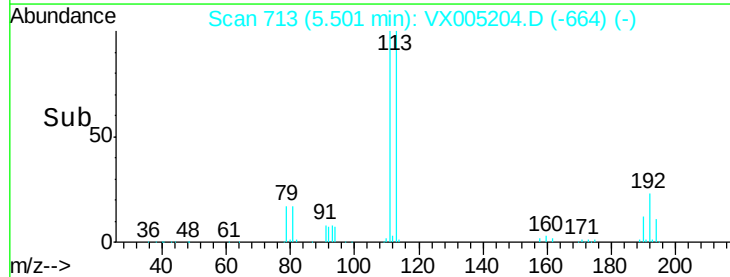
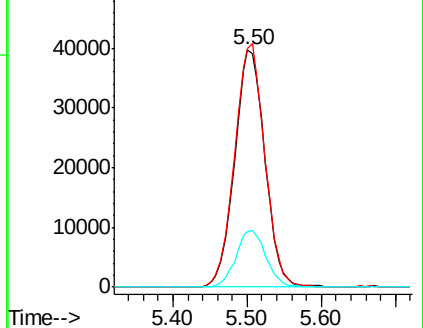
Tgt Ion:	113	Resp:	113304
Ion	Ratio	Lower	Upper
113	100		
111	102.2	77.0	115.4
192	23.9	17.0	25.6

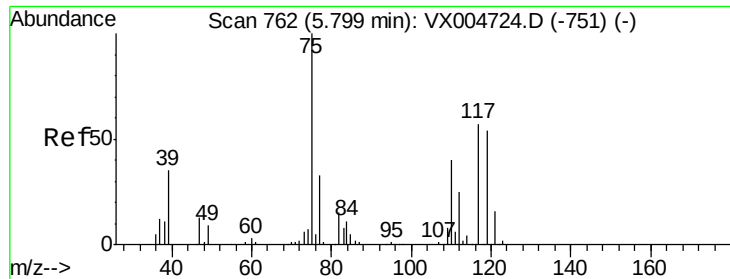


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

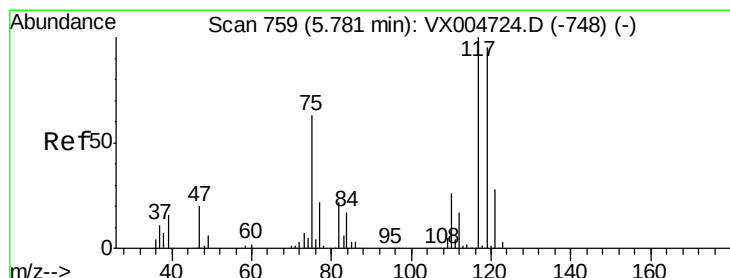
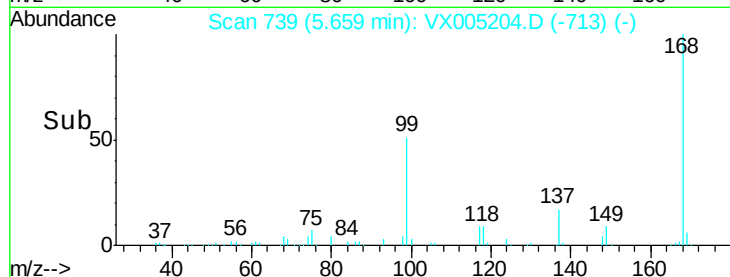
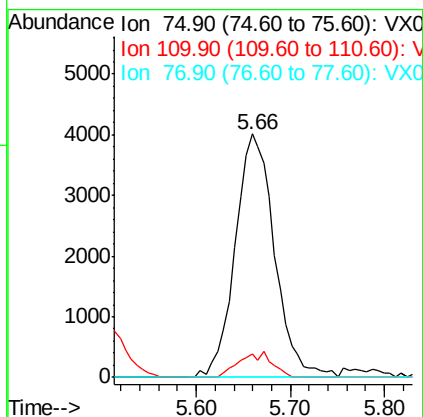
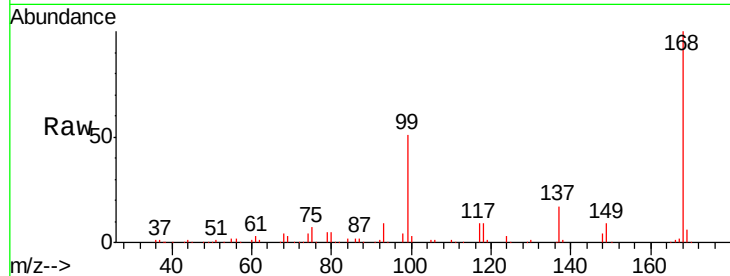




#36
 1,1-Dichloropropene
 Concen: 3.75 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005204.D
 Acq: 10 Oct 2018 12:20

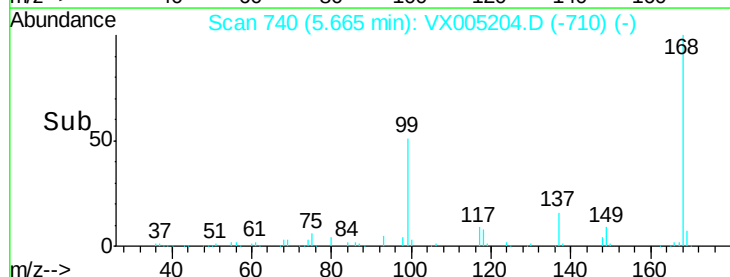
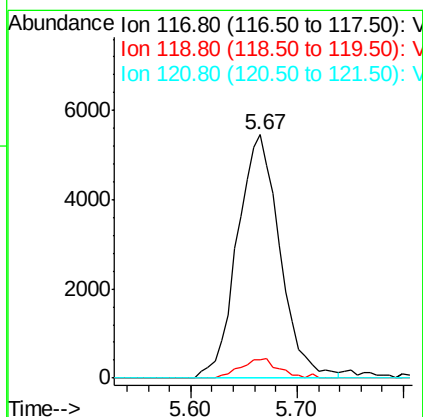
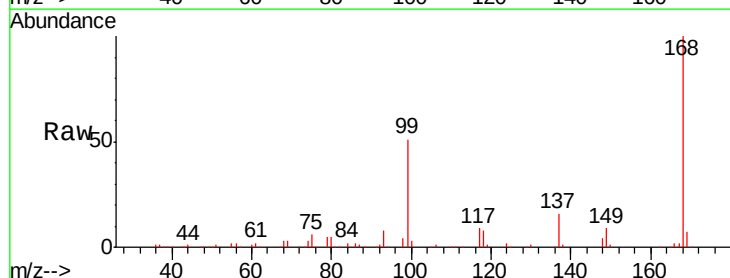
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP07-20181004

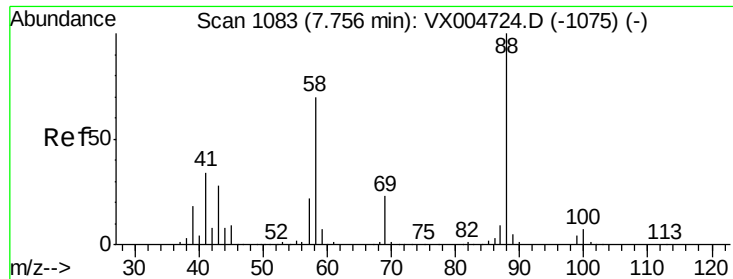
Tgt Ion: 75 Resp: 11707
 Ion Ratio Lower Upper
 75 100
 110 8.7 20.0 59.9#
 77 0.0 27.1 40.7#



#38
 Carbon Tetrachloride
 Concen: 4.65 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005204.D
 Acq: 10 Oct 2018 12:20

Tgt Ion: 117 Resp: 15273
 Ion Ratio Lower Upper
 117 100
 119 7.6 75.2 112.8#
 121 0.0 22.5 33.7#

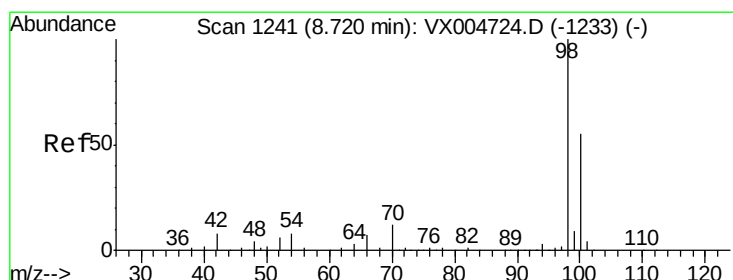
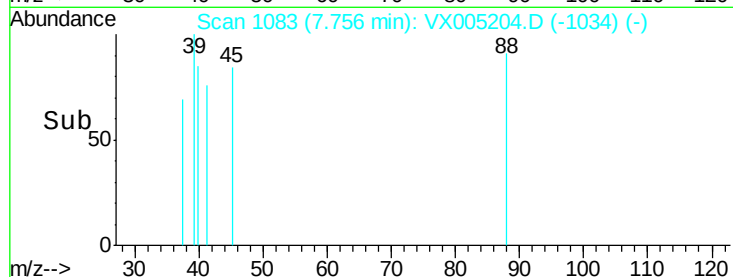
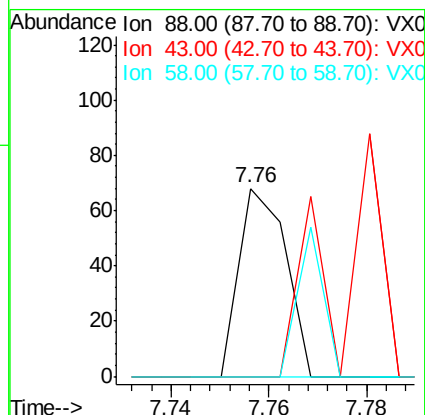
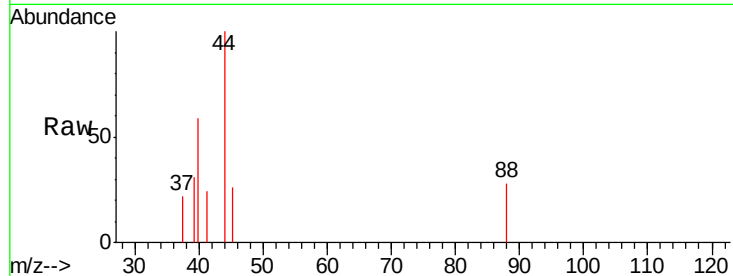




#49
1,4-Dioxane
Concen: 0.67 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. -0.00 min
Lab File: VX005204.D
Acq: 10 Oct 2018 12:20

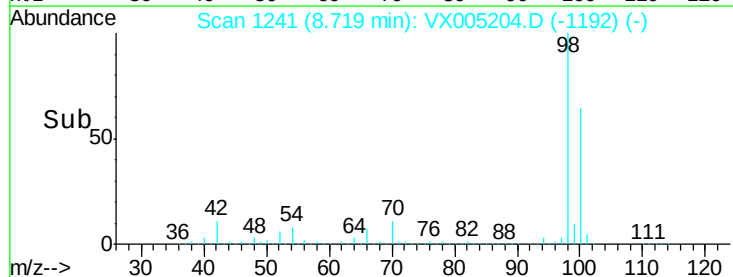
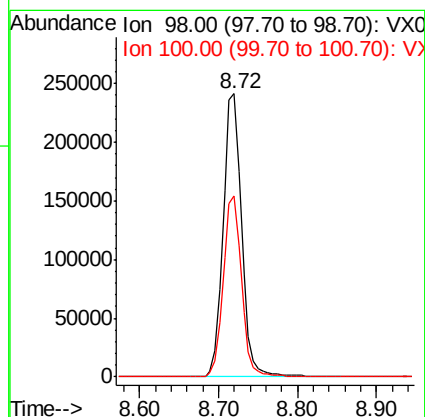
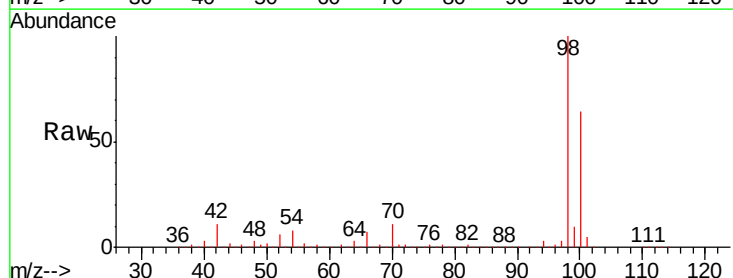
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP07-20181004

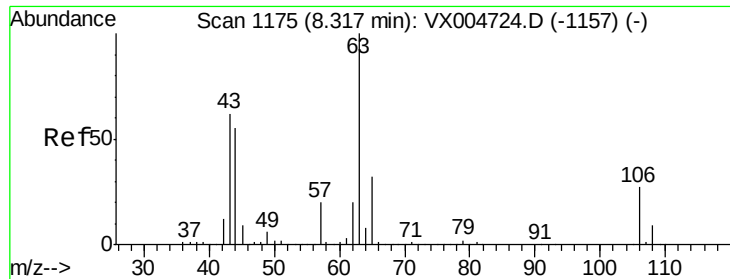
Tgt Ion: 88 Resp: 45
Ion Ratio Lower Upper
88 100
43 53.3 25.1 37.7#
58 44.4 56.2 84.2#



#50
Toluene-d8
Concen: 51.85 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005204.D
Acq: 10 Oct 2018 12:20

Tgt Ion: 98 Resp: 394722
Ion Ratio Lower Upper
98 100
100 63.1 51.9 77.9

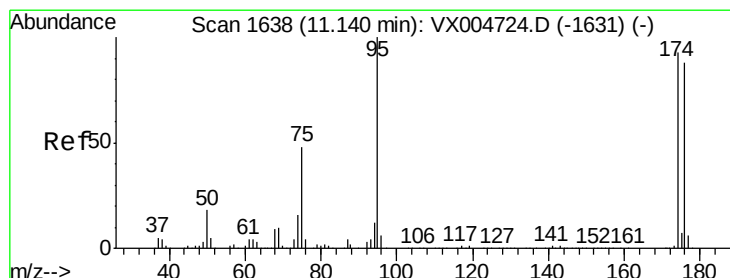
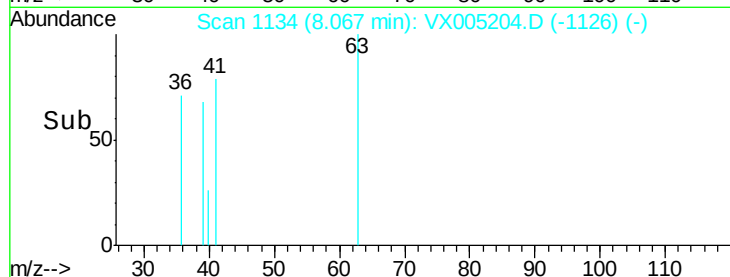
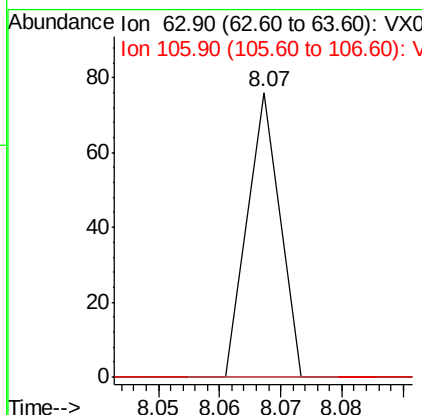
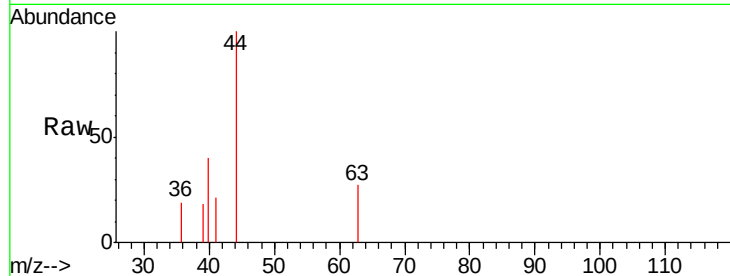




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.26 ug/l
 RT: 8.07 min Scan# 1134
 Delta R.T. -0.25 min
 Lab File: VX005204.D
 Acq: 10 Oct 2018 12:20

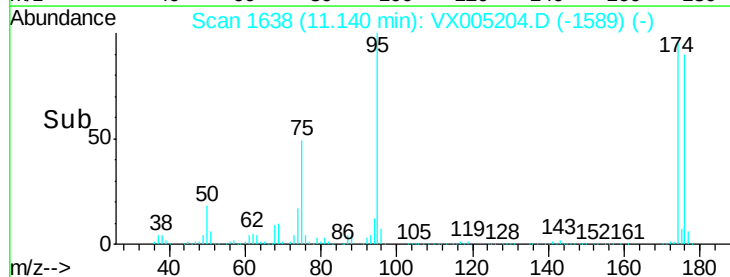
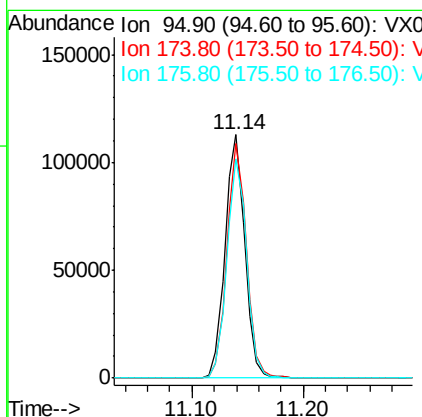
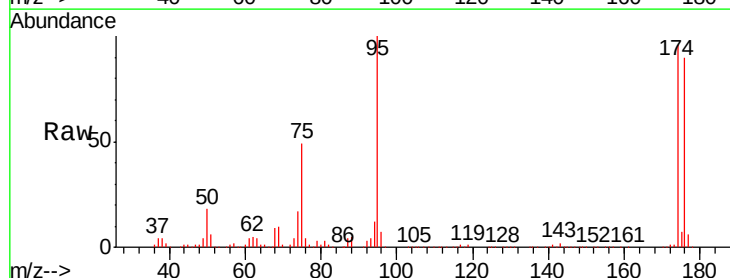
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP07-20181004

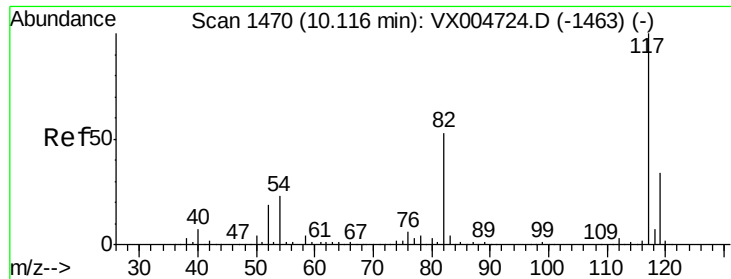
Tgt Ion: 63 Resp: 28
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.0 31.6#



#62
 4-Bromofluorobenzene
 Concen: 50.54 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX005204.D
 Acq: 10 Oct 2018 12:20

Tgt Ion: 95 Resp: 138600
 Ion Ratio Lower Upper
 95 100
 174 94.9 0.0 185.0
 176 90.5 0.0 180.2

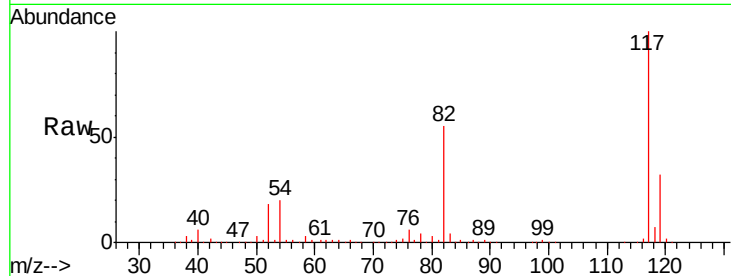




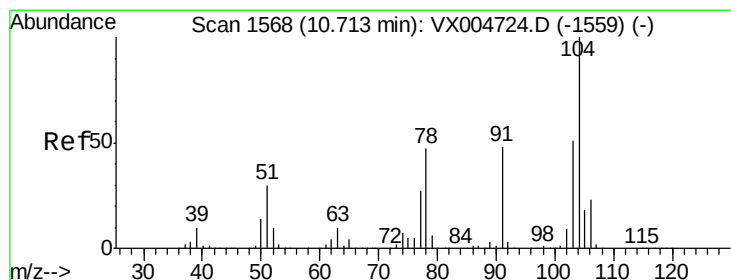
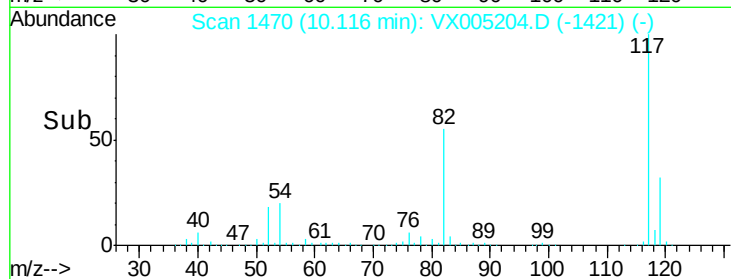
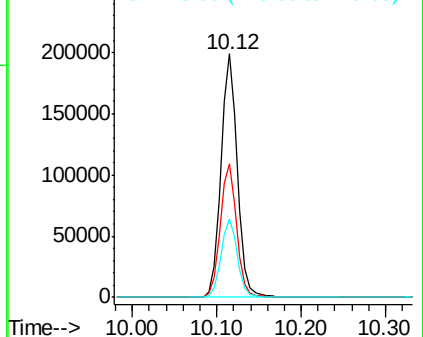
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005204.D
Acq: 10 Oct 2018 12:20

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP07-20181004

Tgt Ion:117 Resp: 268125
Ion Ratio Lower Upper
117 100
82 54.9 42.2 63.4
119 32.0 27.4 41.0

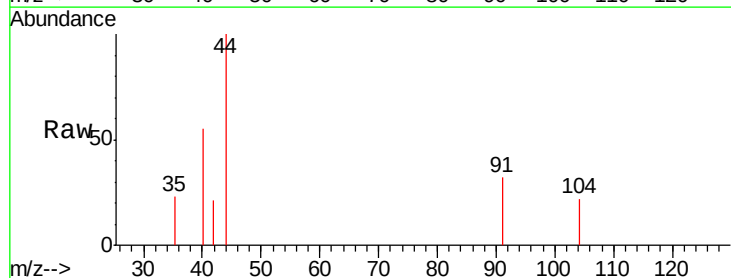


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

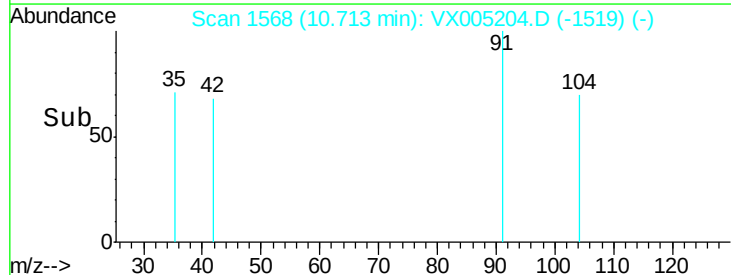
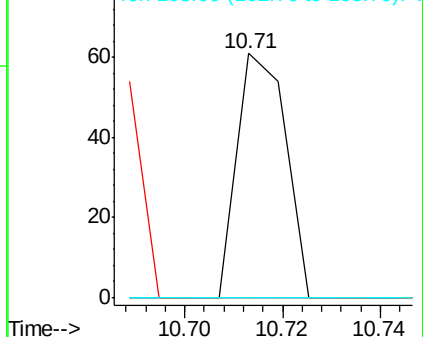


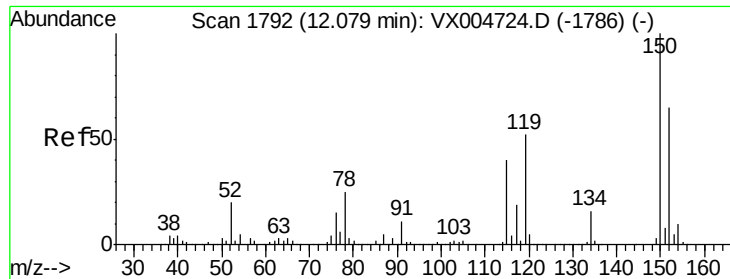
#70
Styrene
Concen: 2.15 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005204.D
Acq: 10 Oct 2018 12:20

Tgt Ion:104 Resp: 42
Ion Ratio Lower Upper
104 100
78 0.0 40.0 60.0#
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP07-20181004

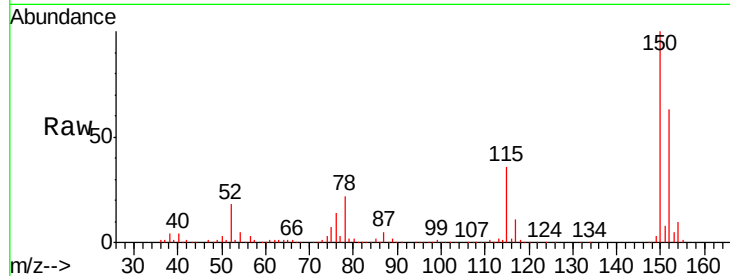
Tgt Ion:152 Resp: 149712

Ion Ratio Lower Upper

152 100

115 55.0 40.2 120.6

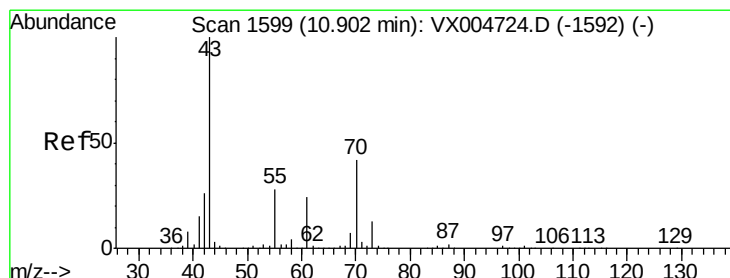
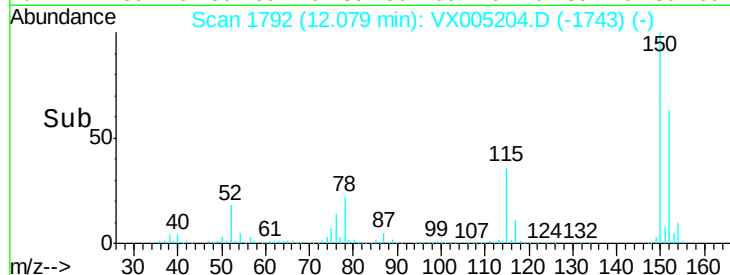
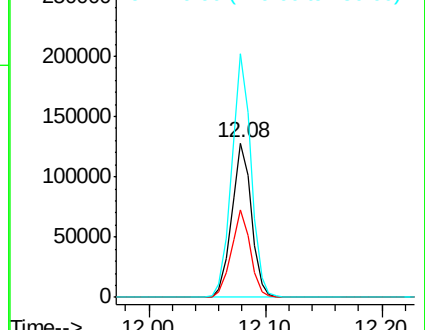
150 155.9 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.75 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

Tgt Ion: 43 Resp: 24

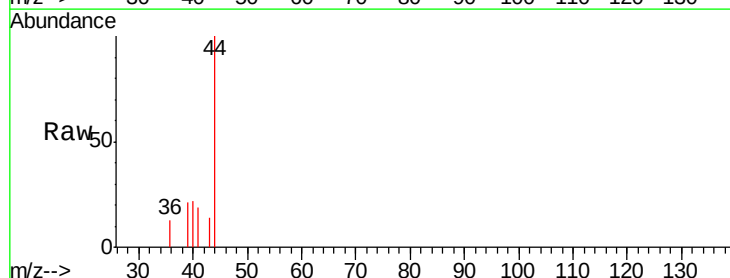
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 487.5 21.6 32.4#

61 0.0 19.1 28.7#

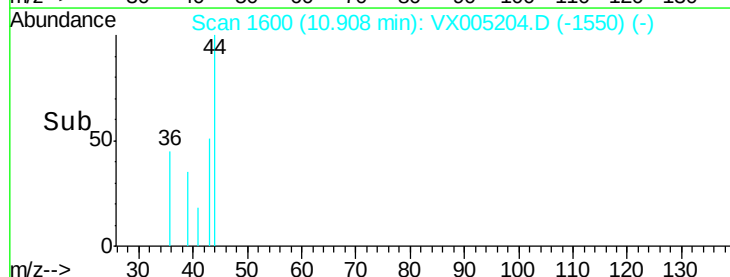
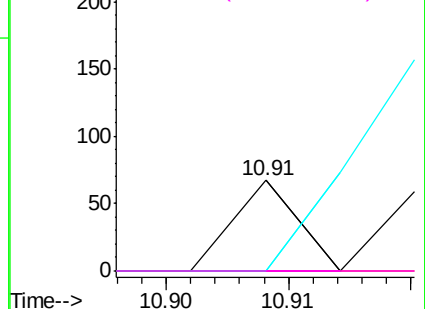


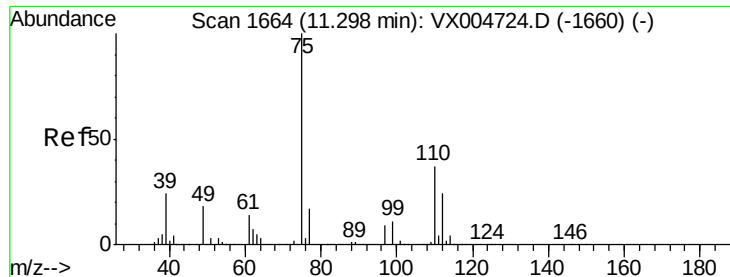
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.73 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

Instrument :

MSVOA_X

ClientSampleId :

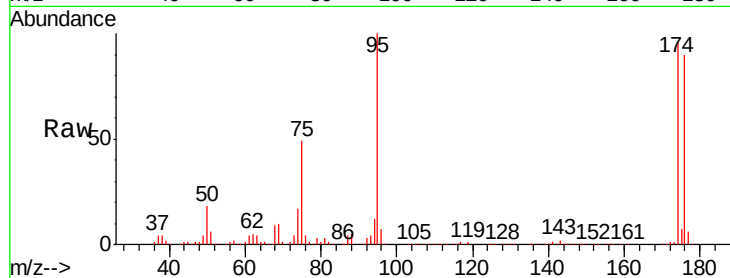
SA-DUP07-20181004

Tgt Ion: 75 Resp: 69575

Ion Ratio Lower Upper

75 100

77 1.3 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

50000

40000

30000

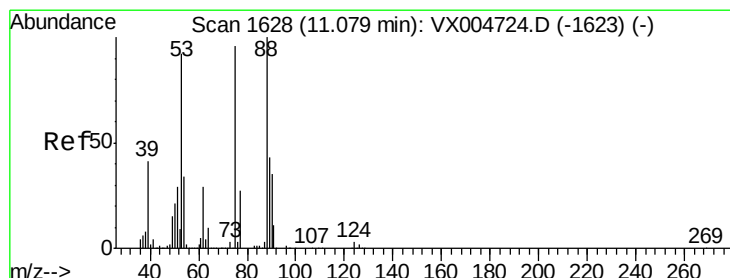
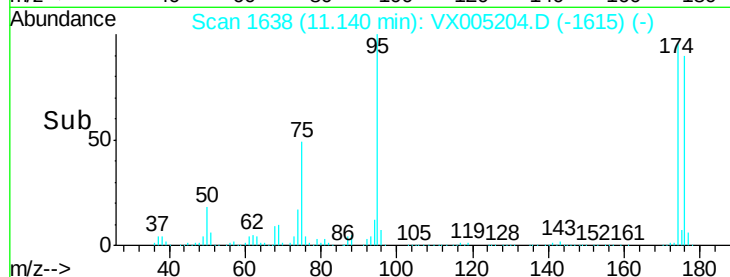
20000

10000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 56.29 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005204.D

Acq: 10 Oct 2018 12:20

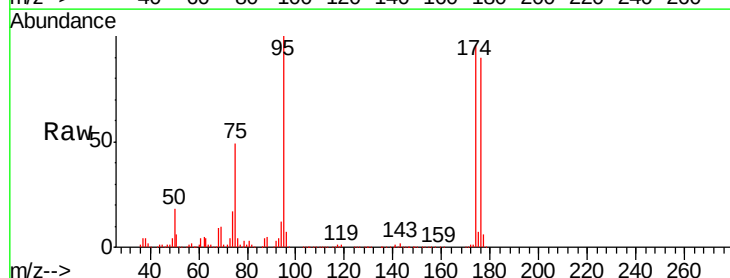
Tgt Ion: 75 Resp: 69575

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

89 0.1 37.1 55.7#



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

60000

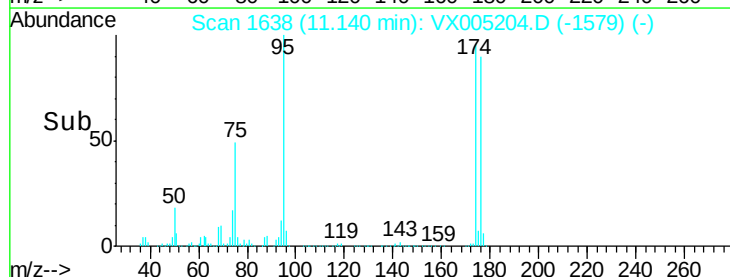
40000

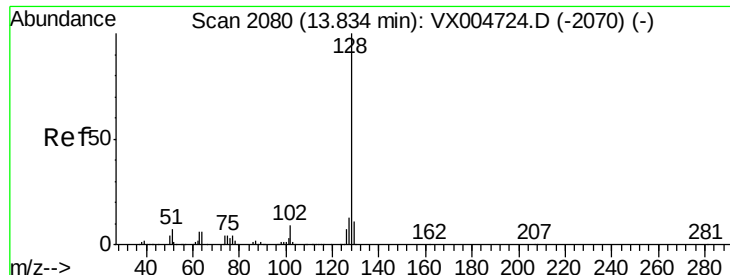
20000

0

11.10 11.20

Time-->





#95
Naphthalene
Concen: 0.76 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005204.D
Acq: 10 Oct 2018 12:20

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP07-20181004

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.4	15.6#
129	4.9	8.7	13.1#

