

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091919\
 Data File : VX012538.D
 Acq On : 19 Sep 2019 19:04
 Operator : JC/SP
 Sample : K4858-27DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20190911DL

Quant Time: Sep 20 04:36:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	185625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	294967	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	248580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100047	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	128506	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	5.49	113	89012	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
50) Toluene-d8	8.71	98	338592	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	11.14	95	122732	44.73	ug/l	0.00
Spiked Amount			Recovery	=	89.46%	

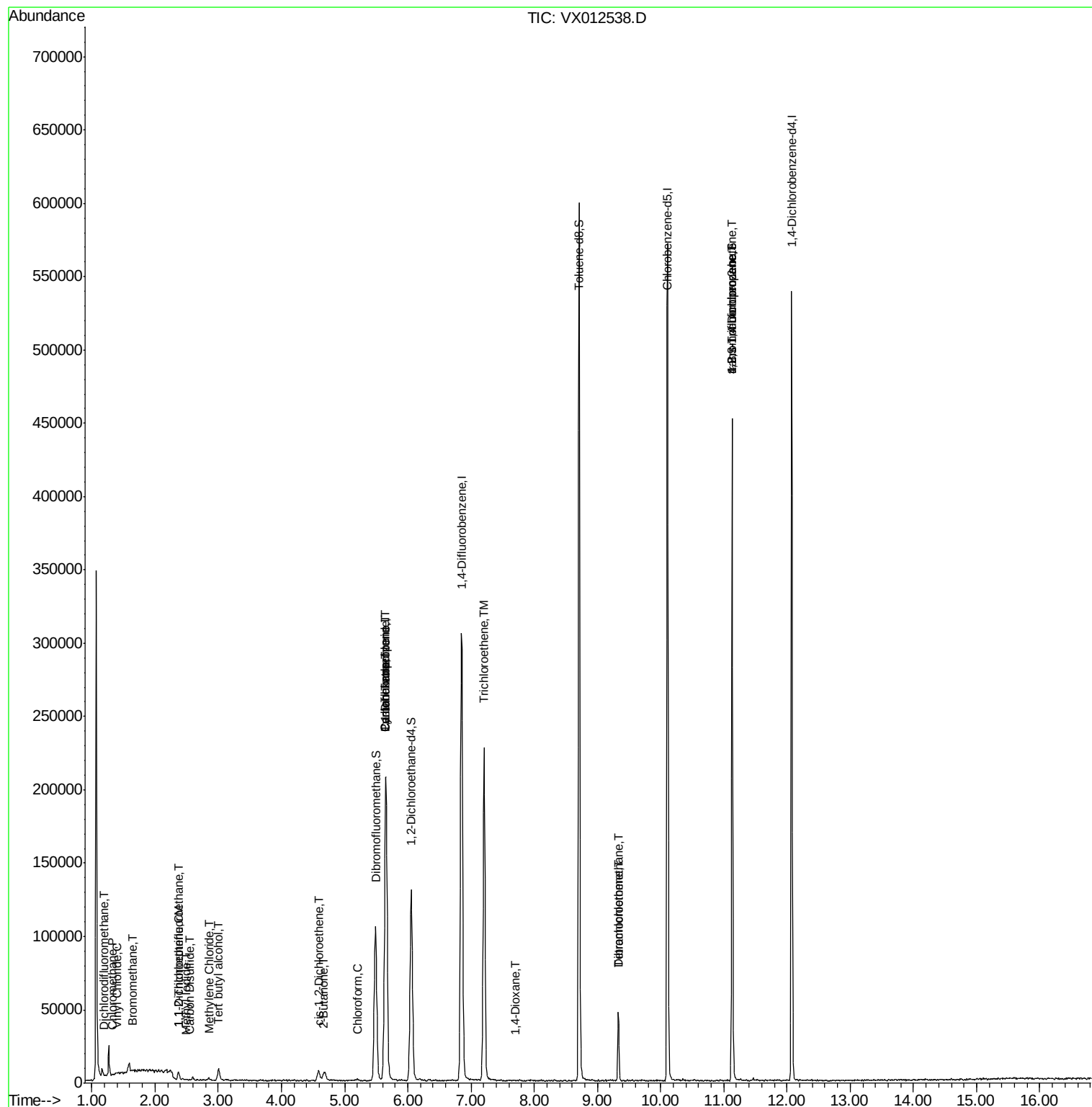
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	75	0.451	ug/l	89
3) Chloromethane	1.32	50	459	0.450	ug/l #	21
4) Vinyl Chloride	1.40	62	794	0.720	ug/l	95
5) Bromomethane	1.64	94	511	1.179	ug/l #	76
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1650	1.128	ug/l #	89
10) Methyl Iodide	2.50	142	108	4.520	ug/l #	56
11) Tert butyl alcohol	3.01	59	4945	1.493	ug/l #	80
12) 1,1-Dichloroethene	2.37	96	507	0.434	ug/l #	92
13) Acrolein	2.30	56	118	Below Cal	#	1
16) Acetone	2.44	43	769	Below Cal	#	73
17) Carbon Disulfide	2.56	76	84	1.855	ug/l #	75
20) Methylene Chloride	2.84	84	717	0.445	ug/l #	78
25) 2-Butanone	4.66	43	516	0.280	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	3697	2.042	ug/l	89
30) Chloroform	5.21	83	999	0.286	ug/l #	72
31) Cyclohexane	5.65	56	4828	2.628	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15887	8.862	ug/l #	53
38) Carbon Tetrachloride	5.65	117	20768	9.315	ug/l #	16
44) Trichloroethene	7.21	130	85838	57.242	ug/l	94
49) 1,4-Dioxane	7.70	88	46	0.812	ug/l #	1
60) Dibromochloromethane	9.33	129	8389	4.352	ug/l #	11
64) Tetrachloroethene	9.33	164	8044	7.062	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	63521	27.640	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	63521	74.279	ug/l #	8

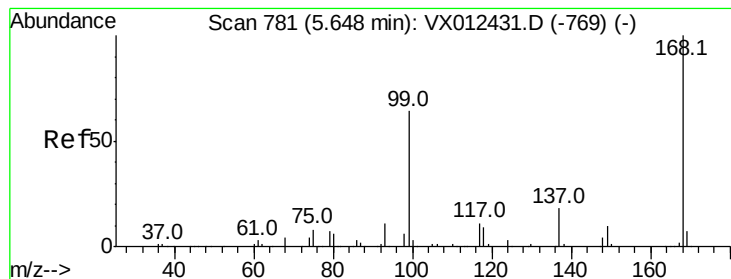
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

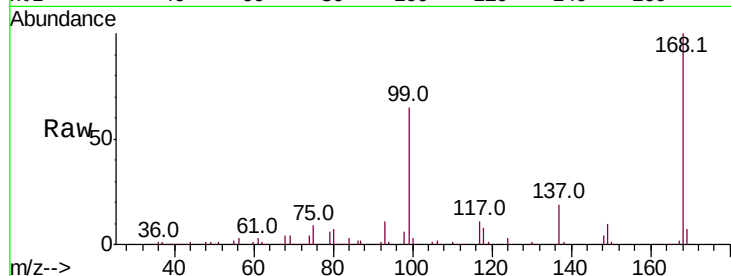
RE132D7-20190911DL

Tot Ion:168 Resp: 185625

Ion Ratio Lower Upper

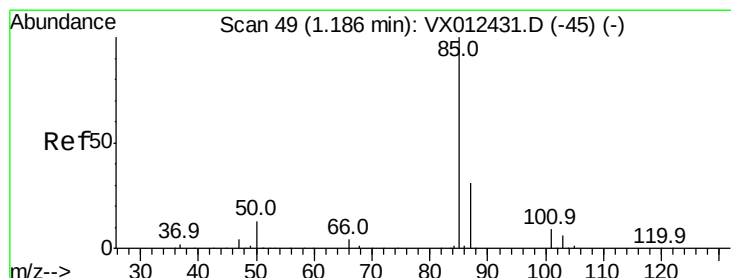
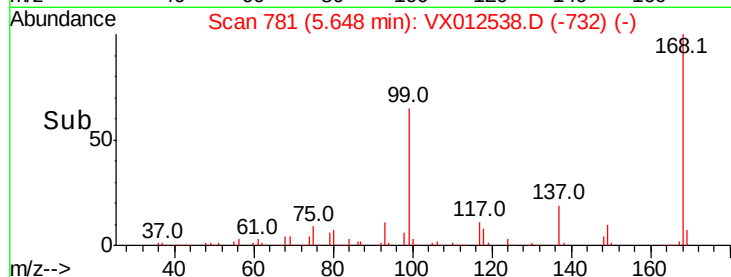
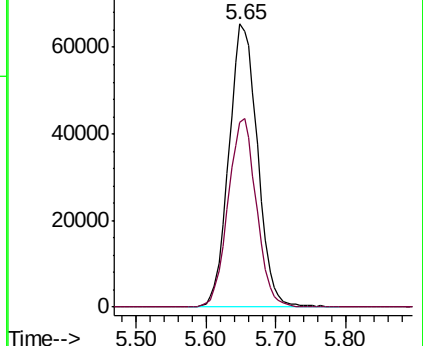
168 100

99 65.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.451 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012538.D

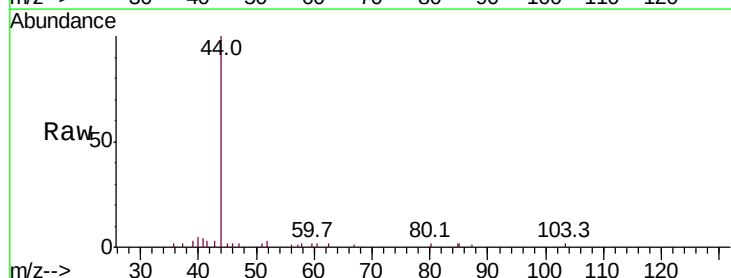
Acq: 19 Sep 2019 19:04

Tgt Ion: 85 Resp: 75

Ion Ratio Lower Upper

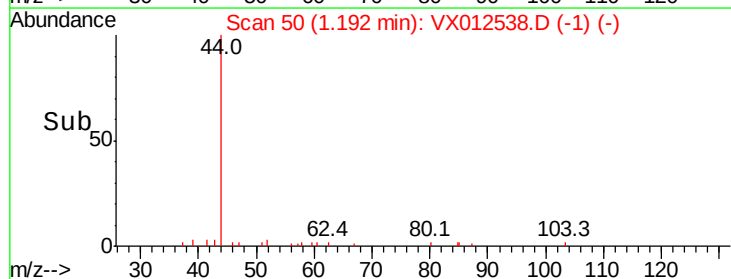
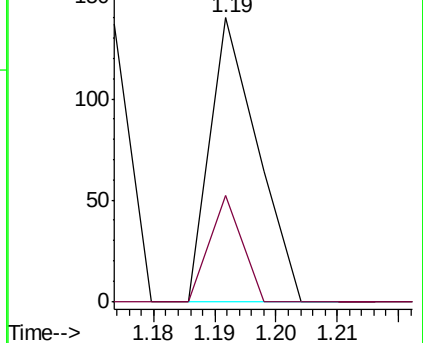
85 100

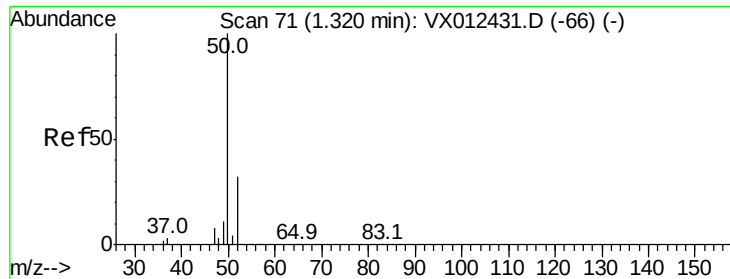
87 37.1 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.450 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

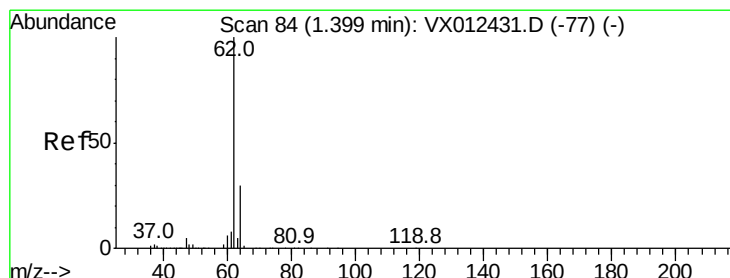
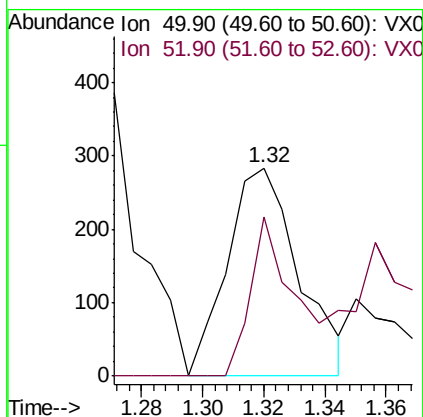
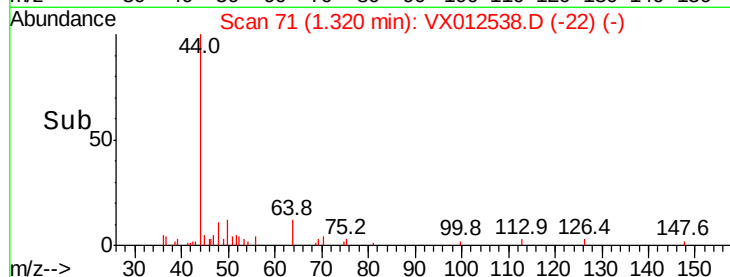
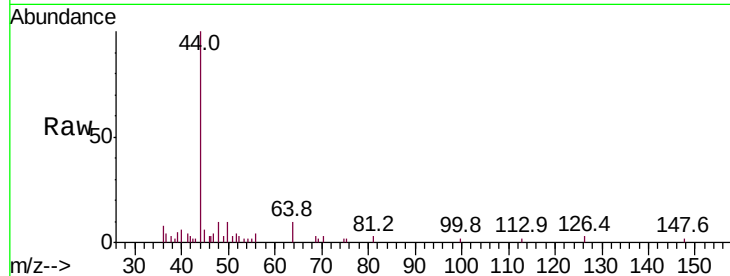
RE132D7-20190911DL

Tot Ion: 50 Resp: 459

Ion Ratio Lower Upper

50 100

52 76.4 25.7 38.5#



#4

Vinyl Chloride

Concen: 0.720 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012538.D

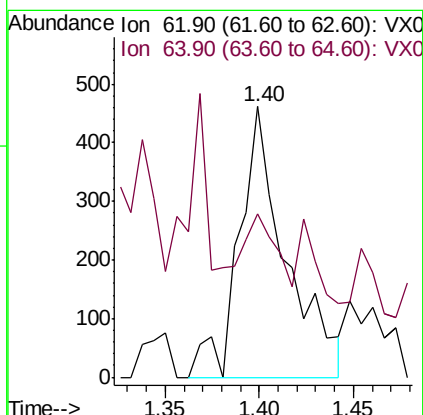
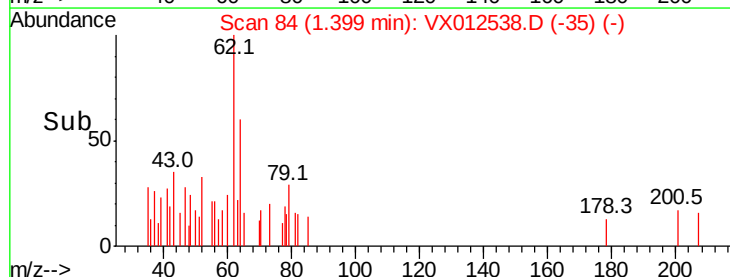
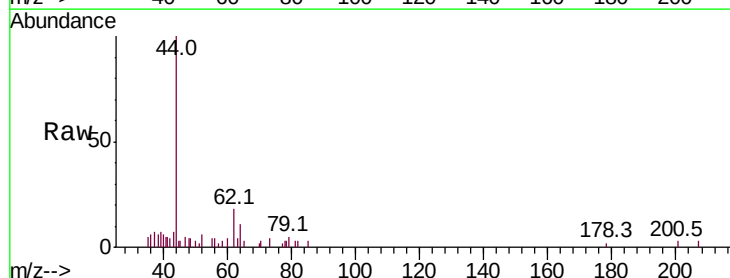
Acq: 19 Sep 2019 19:04

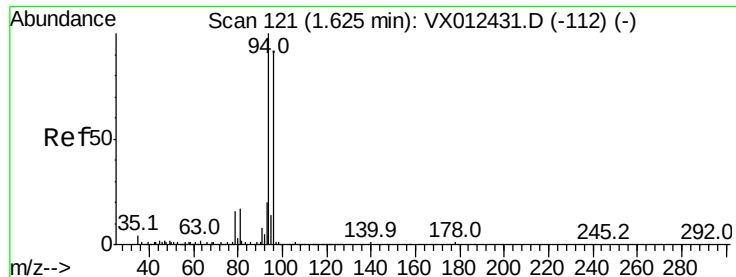
Tgt Ion: 62 Resp: 794

Ion Ratio Lower Upper

62 100

64 32.9 24.2 36.2





#5

Bromomethane

Concen: 1.179 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

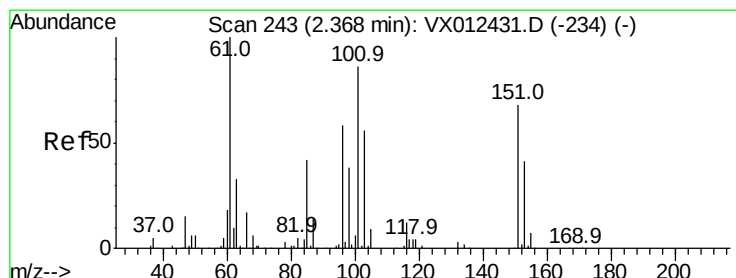
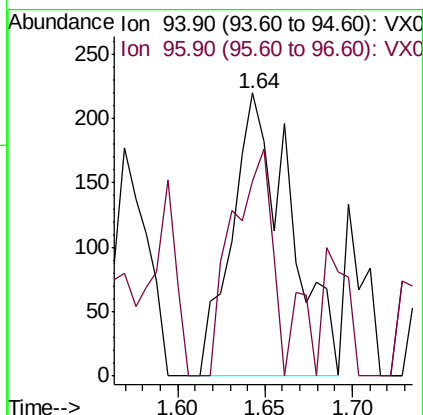
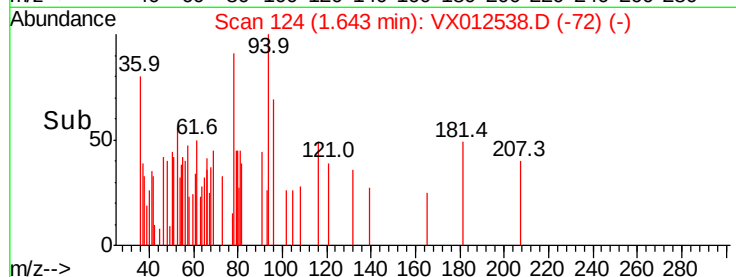
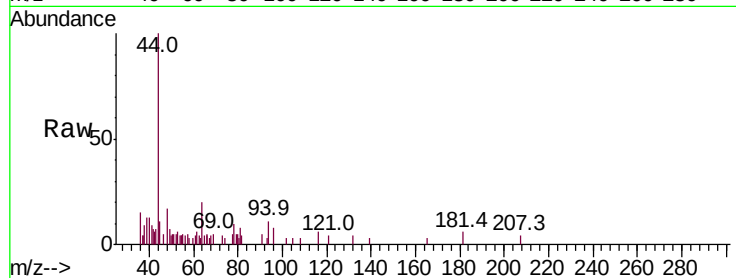
RE132D7-20190911DL

Tot Ion: 94 Resp: 511

Ion Ratio Lower Upper

94 100

96 68.6 72.8 109.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.128 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

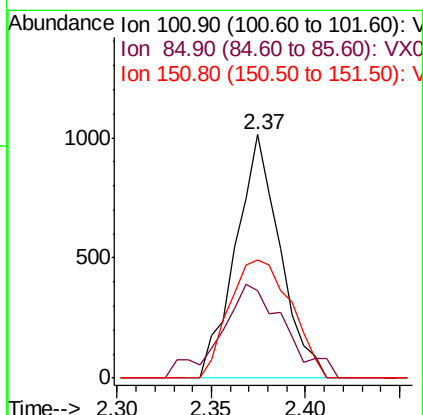
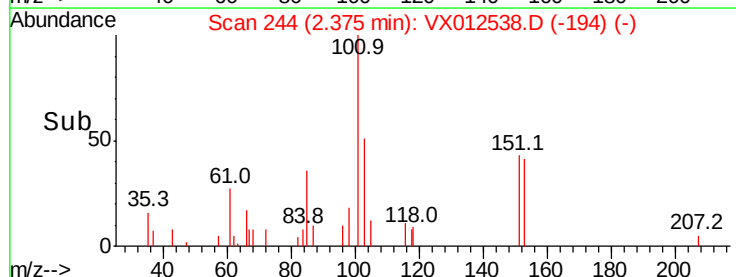
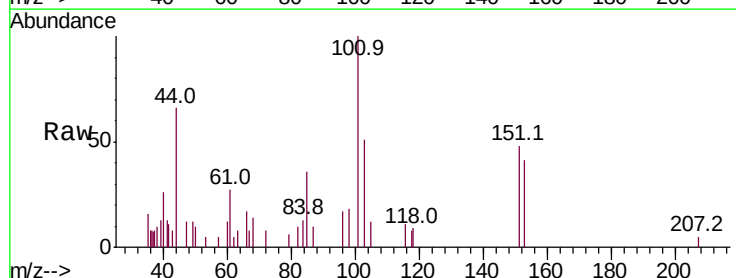
Tgt Ion: 101 Resp: 1650

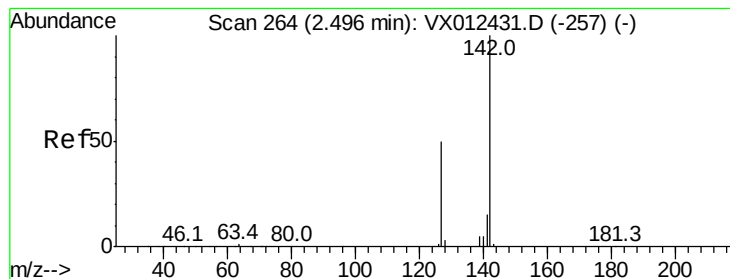
Ion Ratio Lower Upper

101 100

85 55.9 37.3 55.9#

151 67.7 61.0 91.4





#10

Methvl Iodide

Concen: 4.520 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

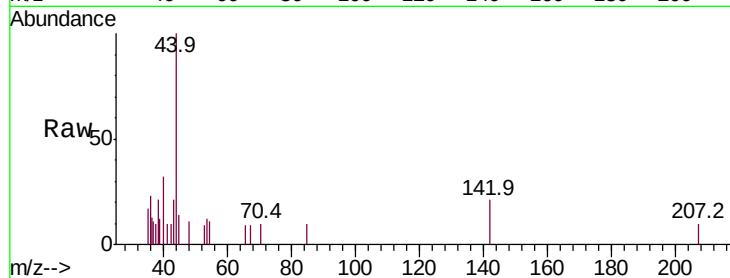
Tot Ion:142 Resp: 108

Ion Ratio Lower Upper

142 100

127 18.5 40.8 61.2#

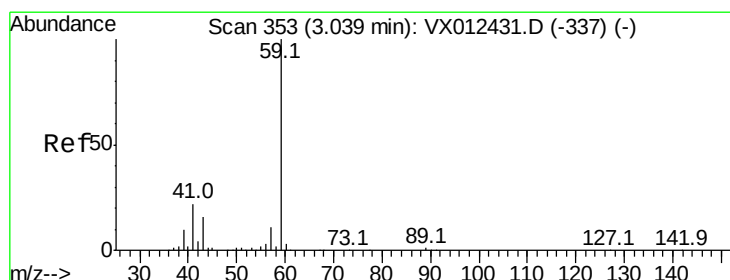
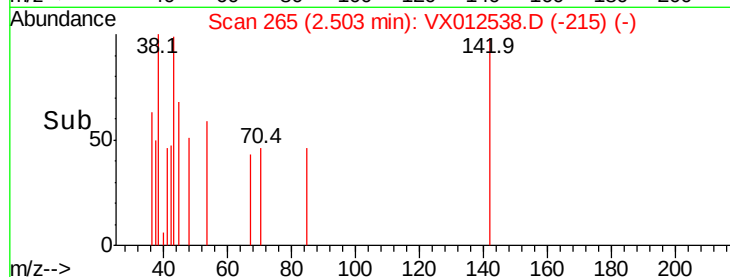
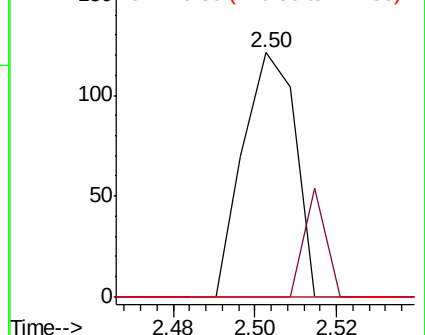
141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.493 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX012538.D

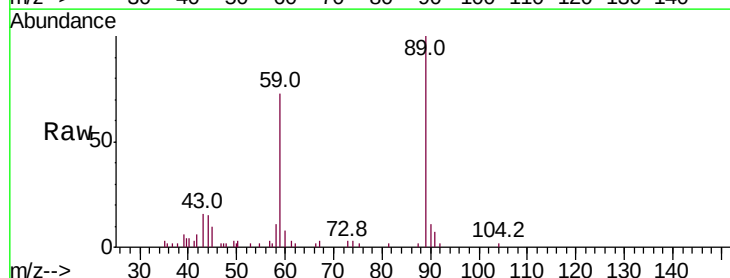
Acq: 19 Sep 2019 19:04

Tgt Ion: 59 Resp: 4945

Ion Ratio Lower Upper

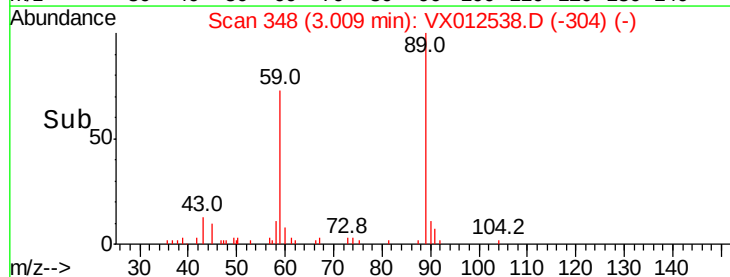
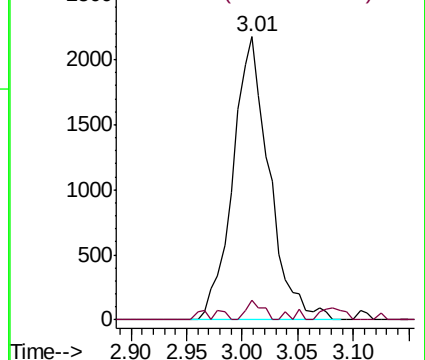
59 100

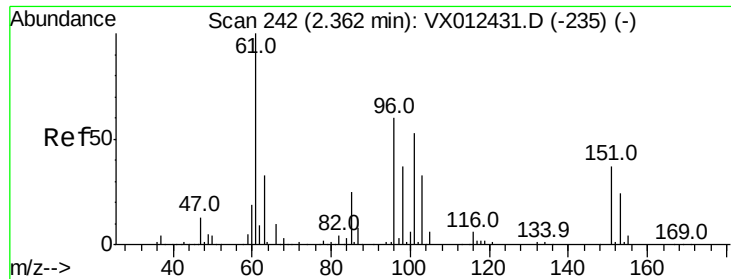
57 3.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.434 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

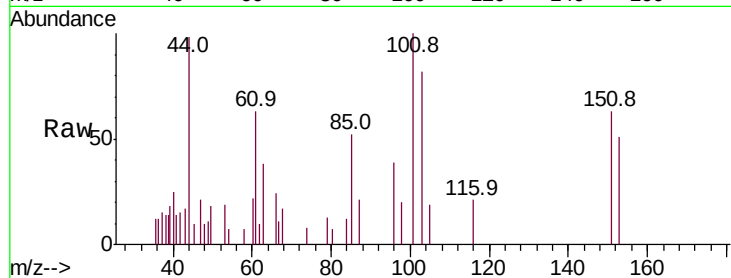
Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

Tot Ion: 96 Resp: 507

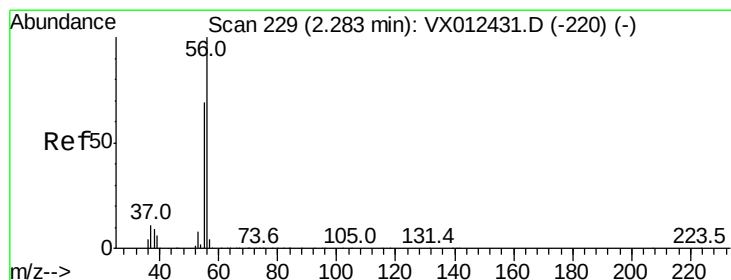
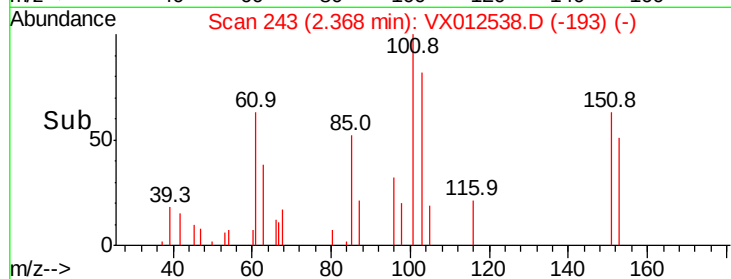
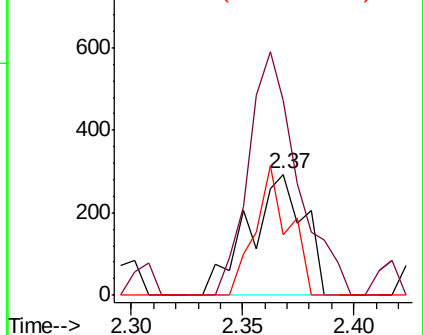
Ion	Ratio	Lower	Upper
96	100		
61	161.4	133.8	200.6
98	49.8	49.9	74.9#



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



#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 232

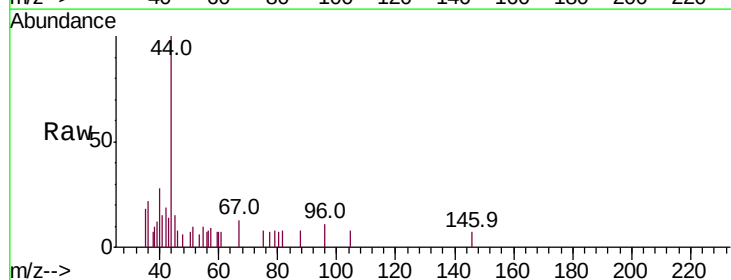
Delta R.T. 0.02 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

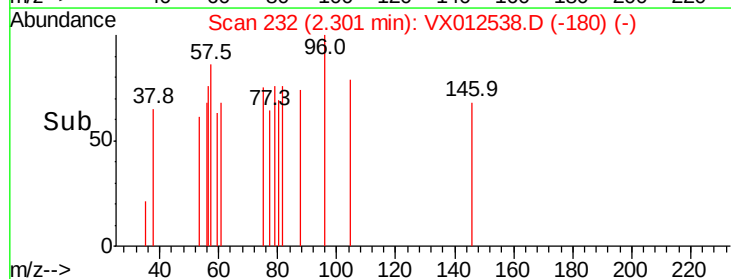
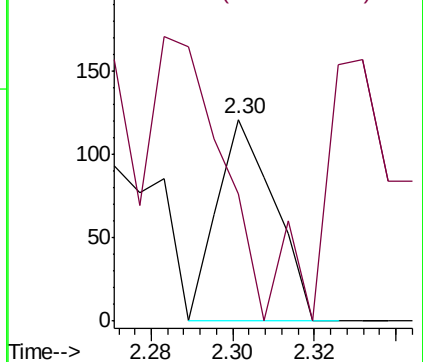
Tgt Ion: 56 Resp: 118

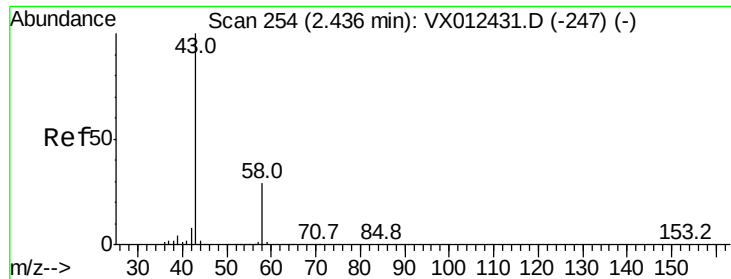
Ion	Ratio	Lower	Upper
56	100		
55	161.9	55.8	83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

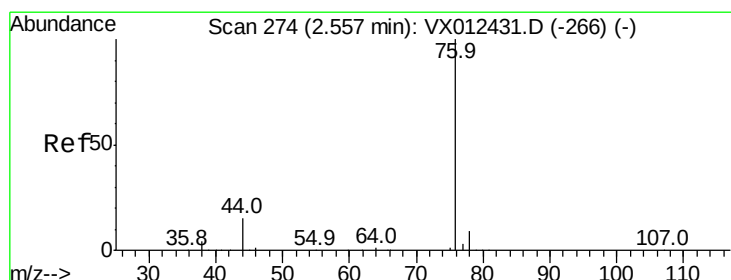
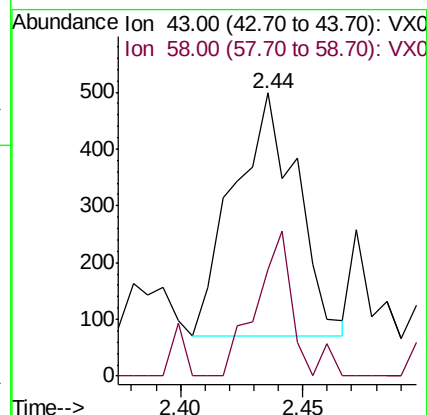
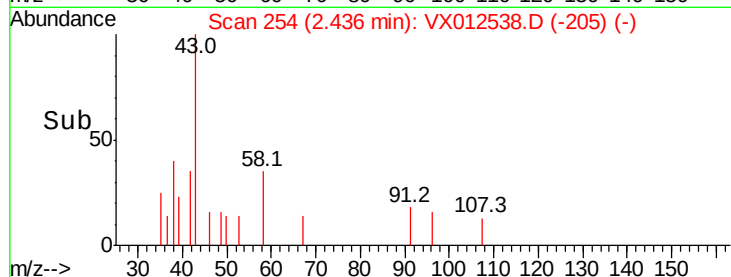
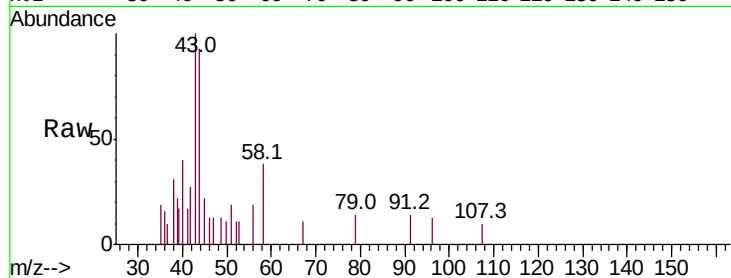
RE132D7-20190911DL

Tot Ion: 43 Resp: 769

Ion Ratio Lower Upper

43 100

58 43.8 23.3 34.9#



#17

Carbon Disulfide

Concen: 1.855 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012538.D

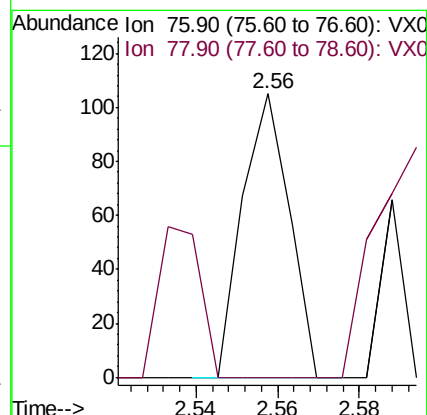
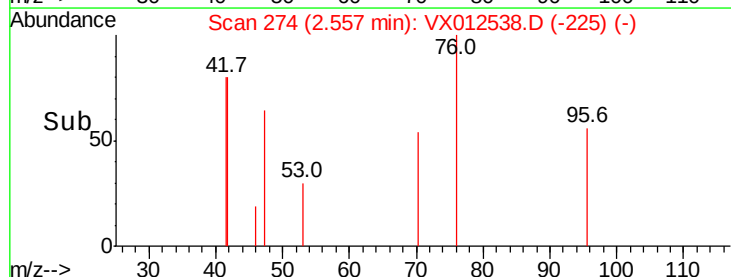
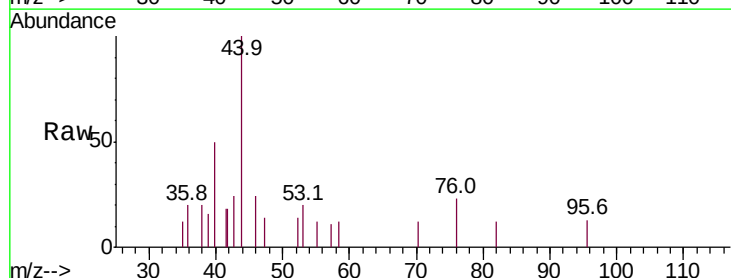
Acq: 19 Sep 2019 19:04

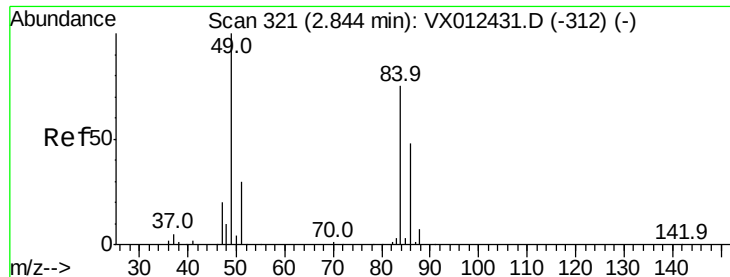
Tgt Ion: 76 Resp: 84

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

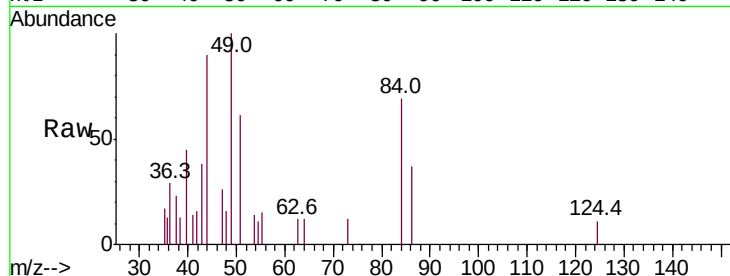




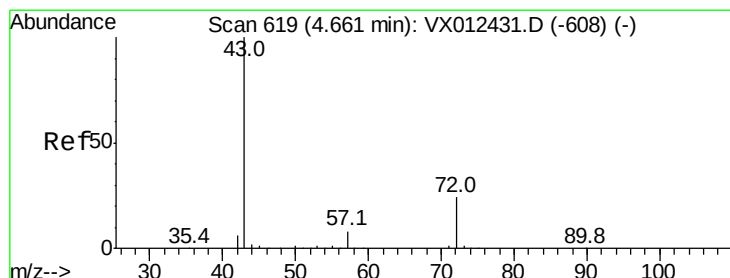
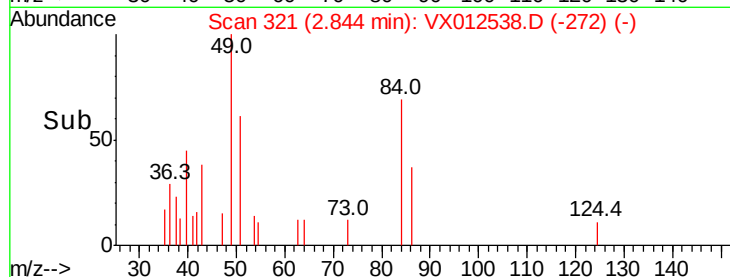
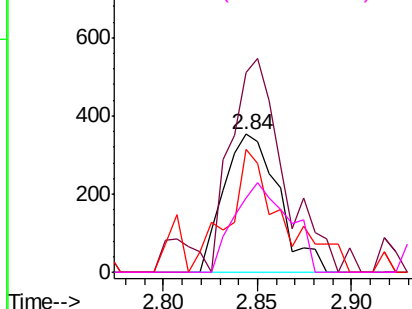
#20
Methylene Chloride
Concen: 0.445 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

Tot Ion: 84 Resp: 717
Ion Ratio Lower Upper
84 100
49 144.8 106.8 160.2
51 88.7 32.3 48.5#
86 53.8 51.3 76.9

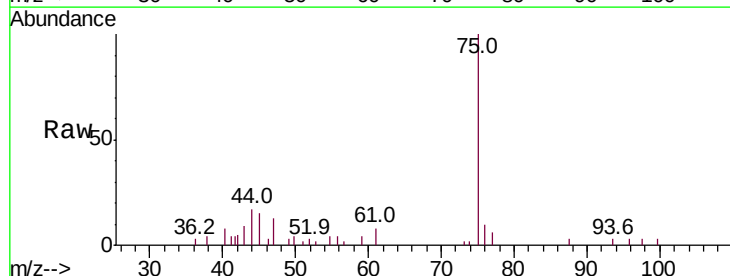


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

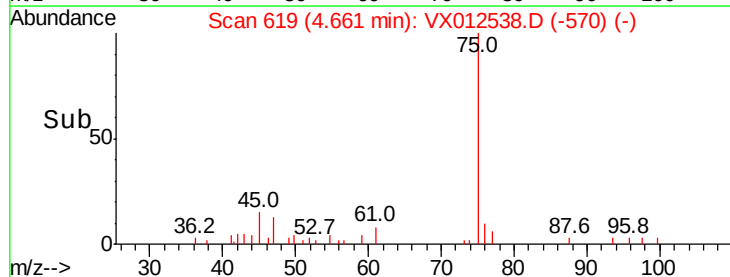
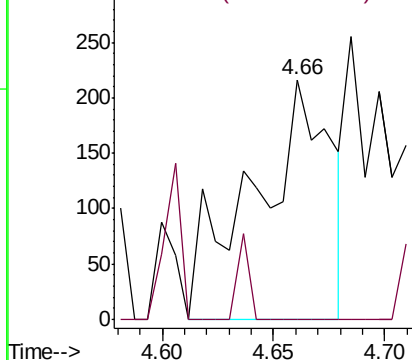


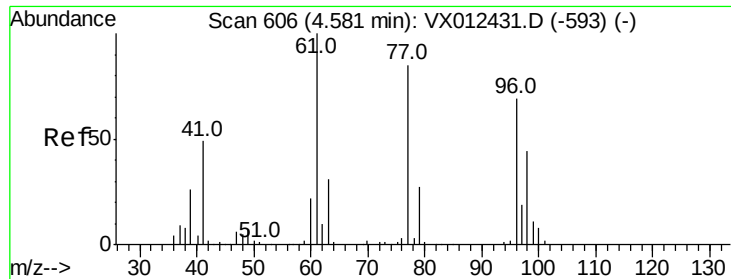
#25
2-Butanone
Concen: 0.280 ug/l
RT: 4.66 min Scan# 619
Delta R.T. 0.00 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

Tgt Ion: 43 Resp: 516
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



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



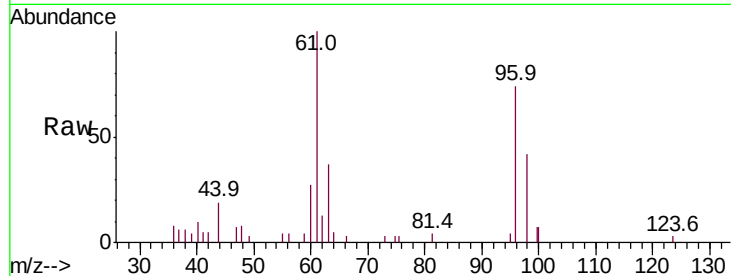


#27

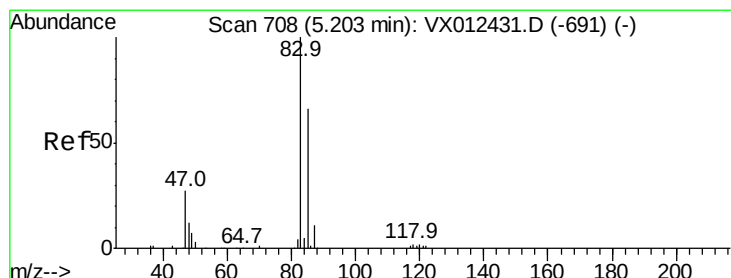
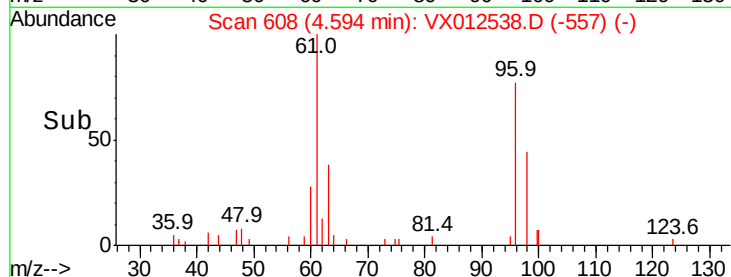
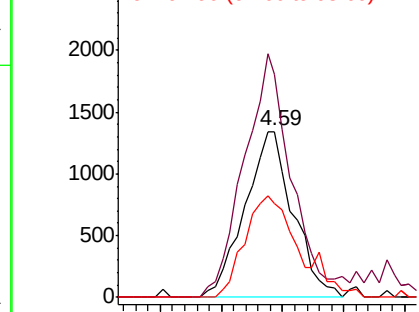
cis-1,2-Dichloroethene
 Concen: 2.042 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX012538.D
 Acq: 19 Sep 2019 19:04

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20190911DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	319.4
98	68.7	0.0	130.6



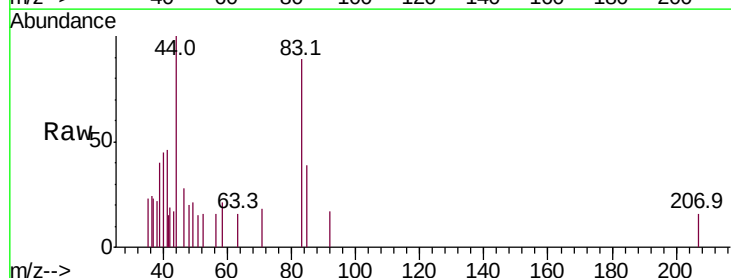
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



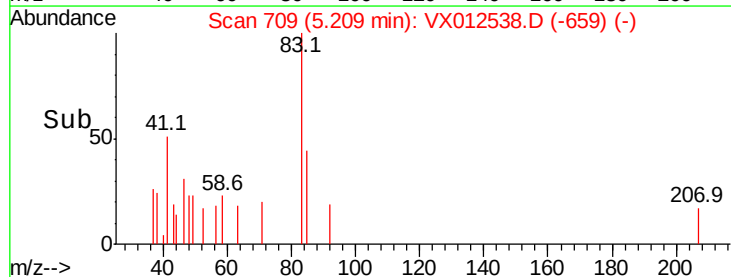
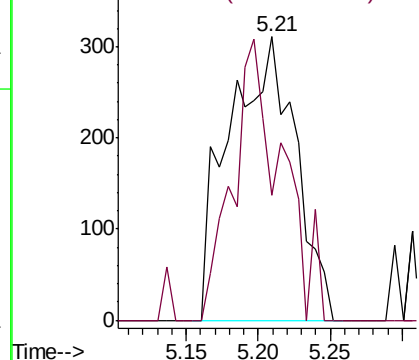
#30

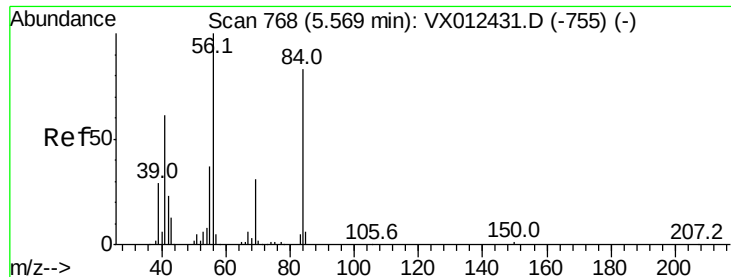
Chloroform
 Concen: 0.286 ug/l
 RT: 5.21 min Scan# 709
 Delta R.T. 0.01 min
 Lab File: VX012538.D
 Acq: 19 Sep 2019 19:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	44.1	53.0	79.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0

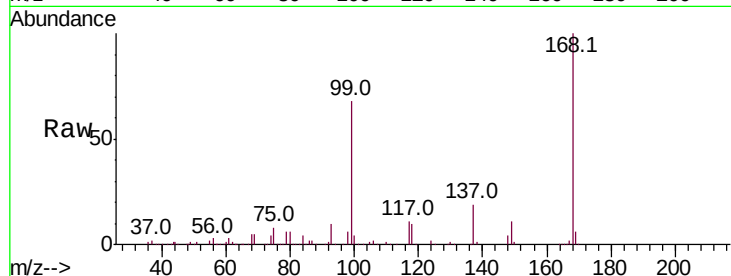




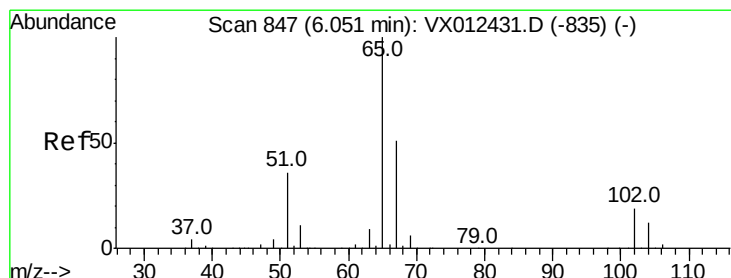
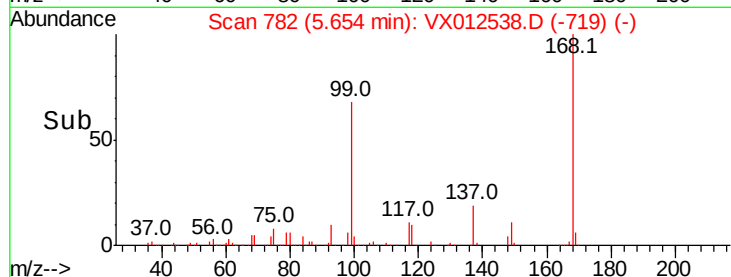
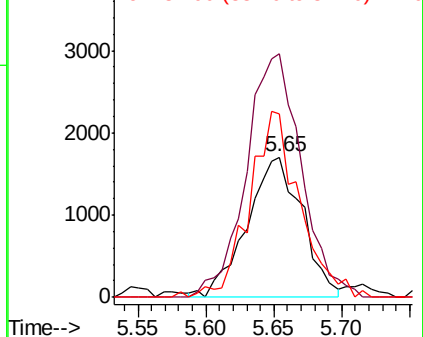
#31
Cyclohexane
Concen: 2.628 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

Tot Ion: 56 Resp: 4828
Ion Ratio Lower Upper
56 100
69 180.0 25.0 37.6#
84 136.0 66.4 99.6#

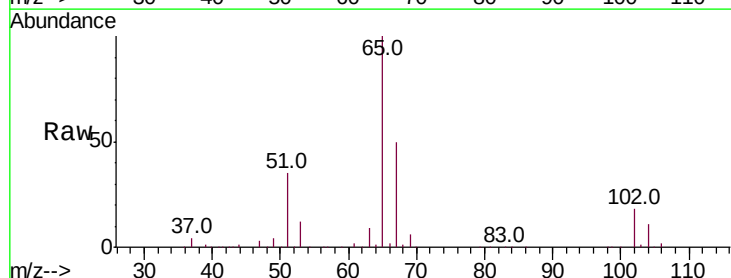


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

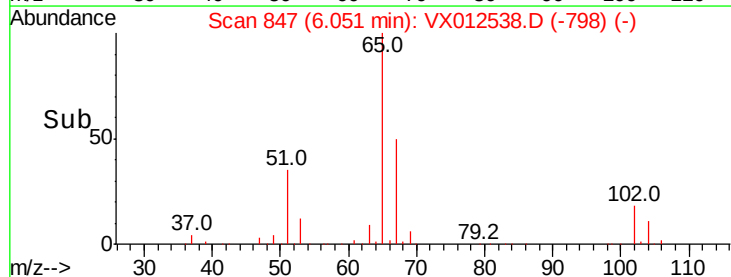
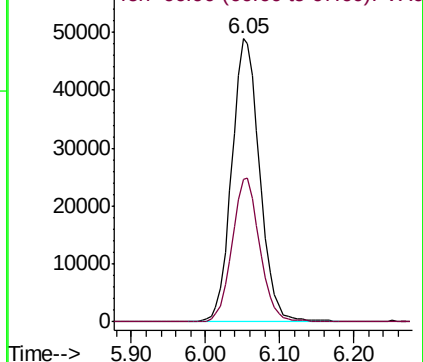


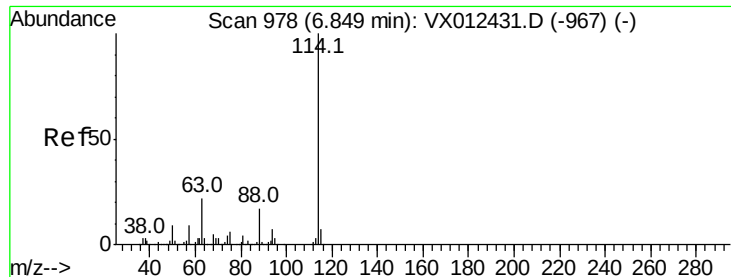
#33
1,2-Dichloroethane-d4
Concen: 48.304 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

Tgt Ion: 65 Resp: 128506
Ion Ratio Lower Upper
65 100
67 50.3 0.0 101.2



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

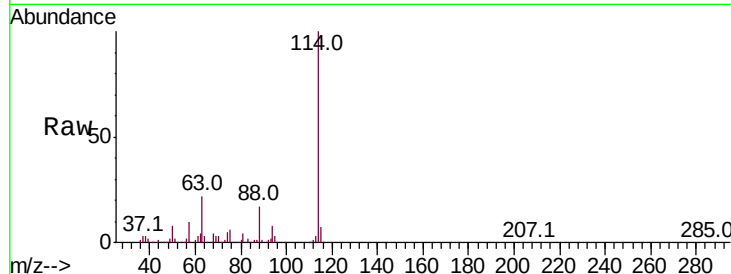
Tot Ion:114 Resp: 294967

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.2

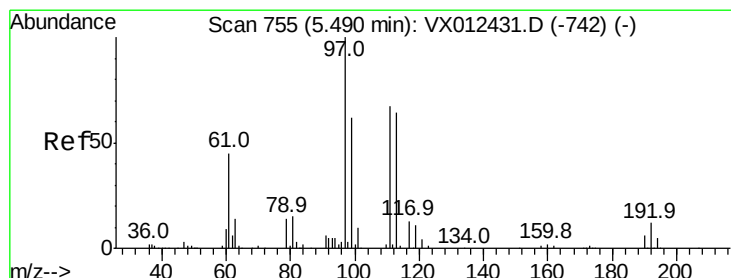
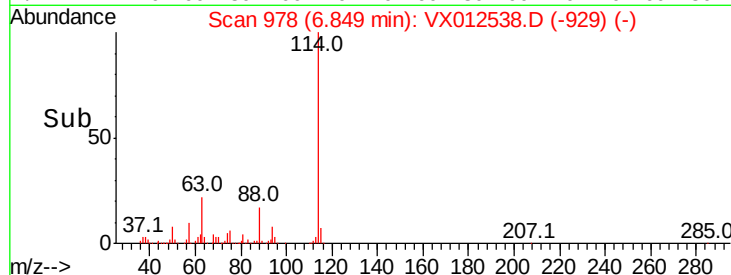
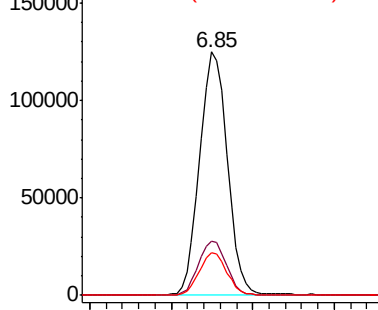
88 17.3 0.0 33.2



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: 49.858 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

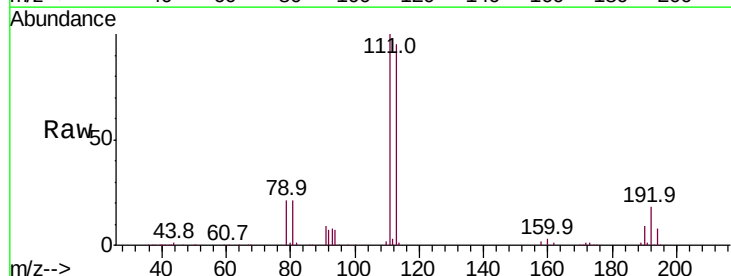
Tgt Ion:113 Resp: 89012

Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.2

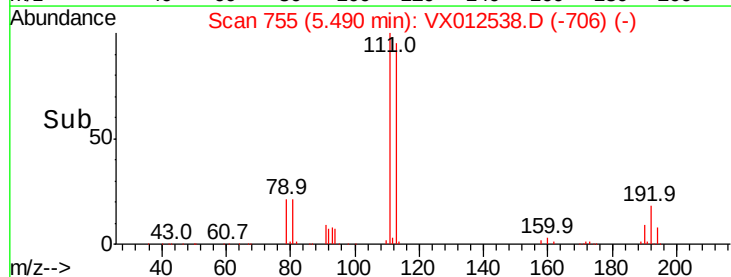
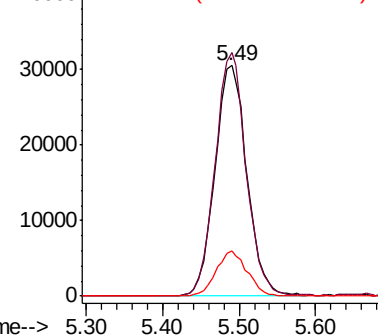
192 18.8 14.4 21.6

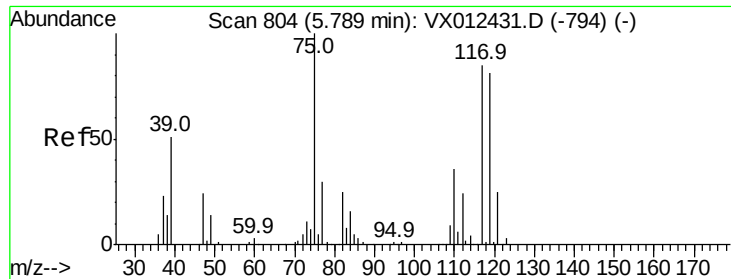


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

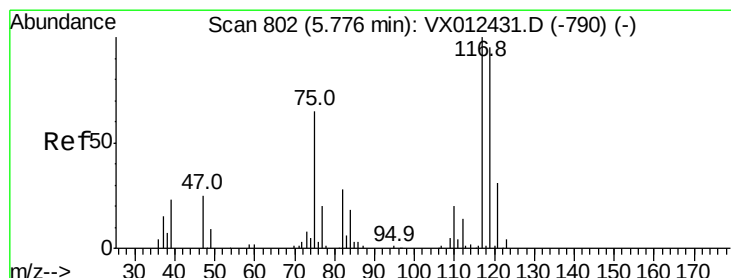
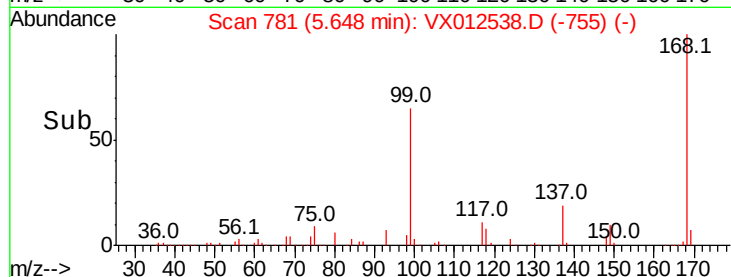
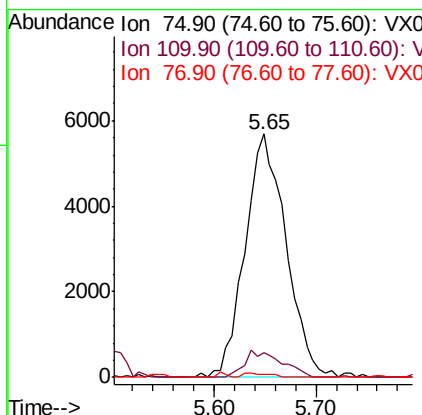
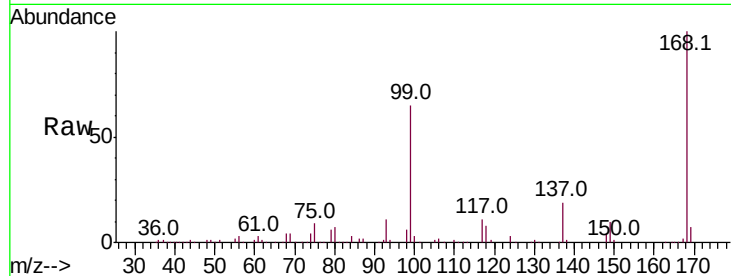




#36
 1,1-Dichloropropene
 Concen: 8.862 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012538.D
 Acq: 19 Sep 2019 19:04

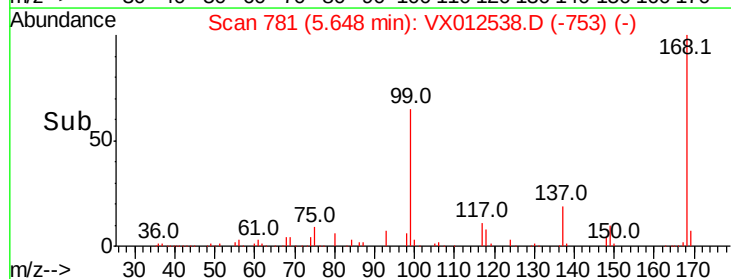
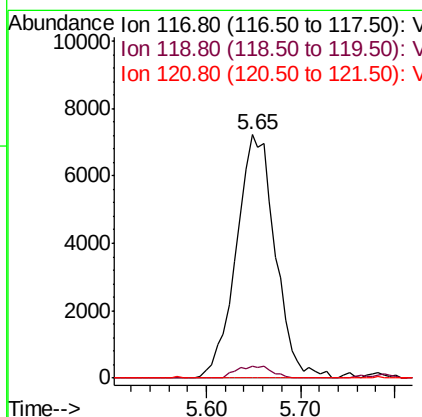
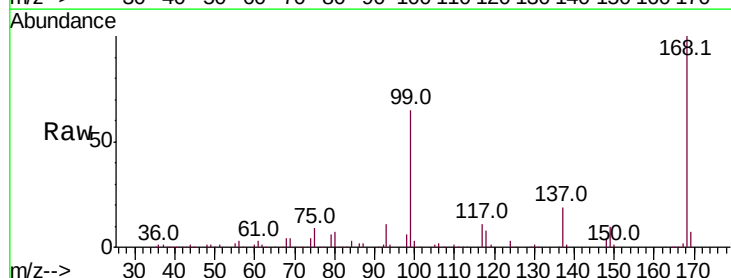
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20190911DL

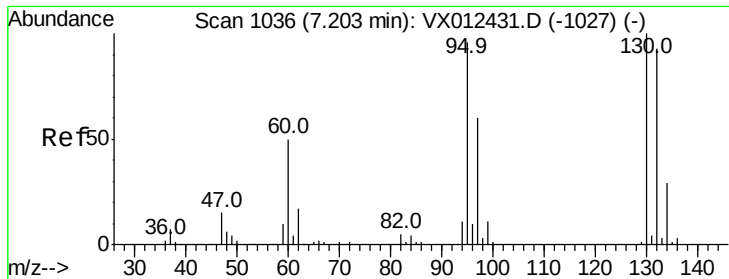
Tot Ion:	75	Resp:	15887
Ion	Ratio	Lower	Upper
75	100		
110	9.8	16.7	50.0#
77	1.0	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 9.315 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012538.D
 Acq: 19 Sep 2019 19:04

Tgt Ion:	117	Resp:	20768
Ion	Ratio	Lower	Upper
117	100		
119	4.9	75.7	113.5#
121	0.0	24.2	36.4#





#44

Trichloroethene

Concen: 57.242 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

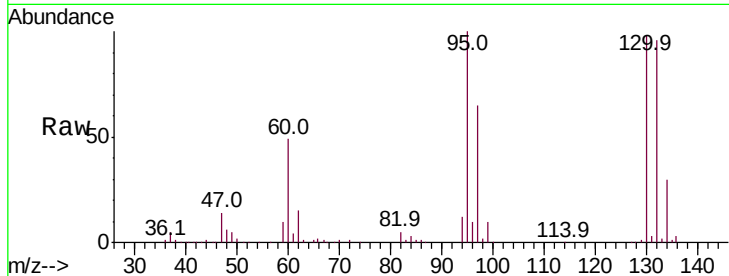
RE132D7-20190911DL

Tot Ion:130 Resp: 85838

Ion Ratio Lower Upper

130 100

95 102.3 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

40000

30000

20000

10000

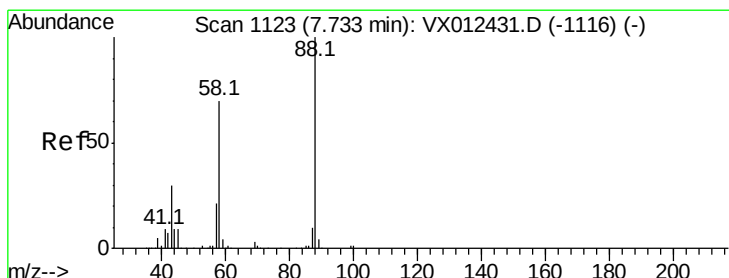
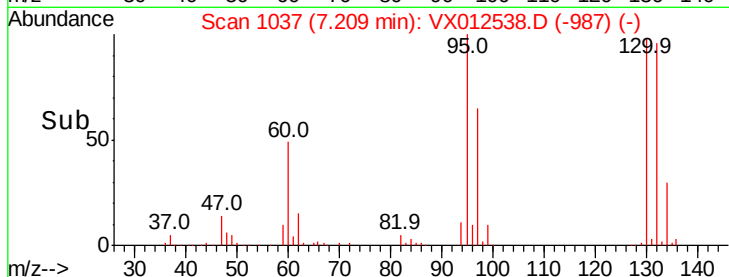
0

Time-->

7.10

7.20

7.30



#49

1,4-Dioxane

Concen: 0.812 ug/l

RT: 7.70 min Scan# 1117

Delta R.T. -0.04 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

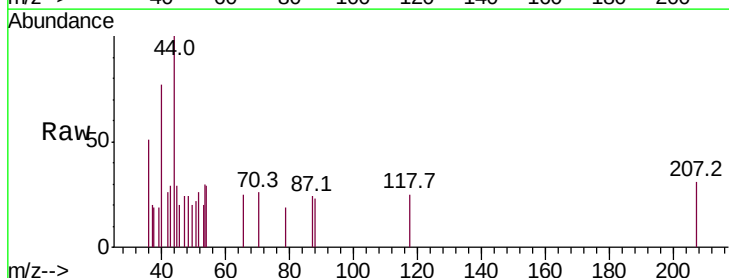
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 0.0 29.4 44.0#

58 195.7 57.5 86.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

200

150

100

50

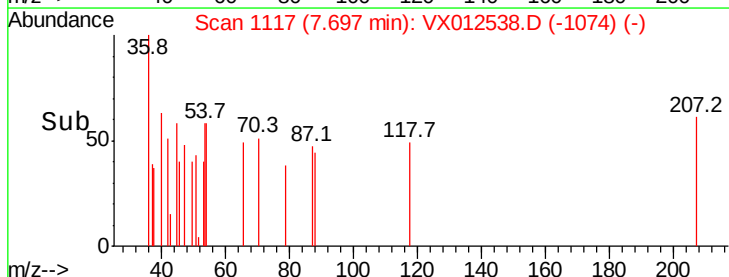
0

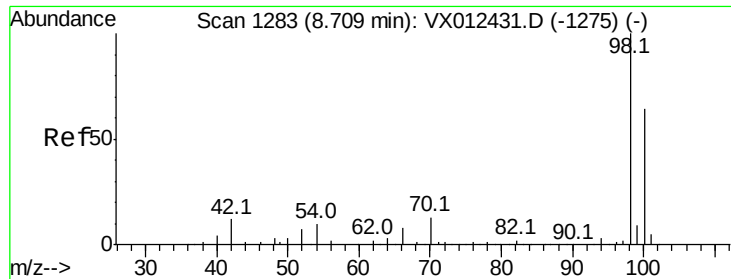
Time-->

7.68

7.70

7.72

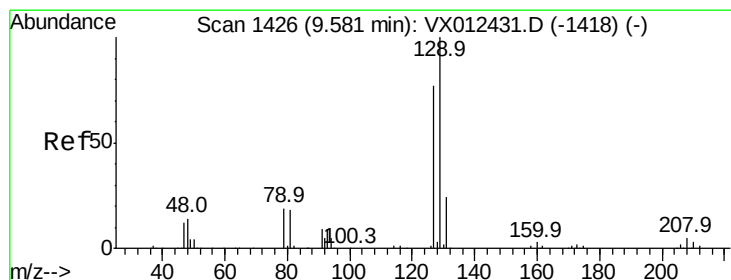
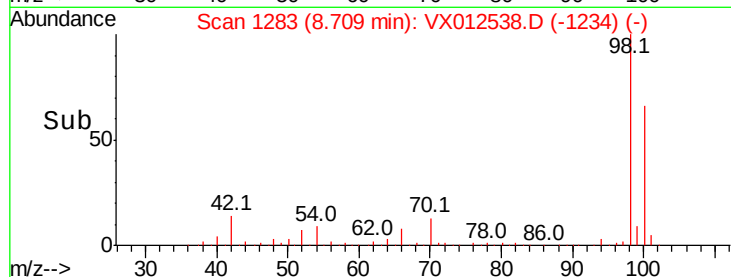
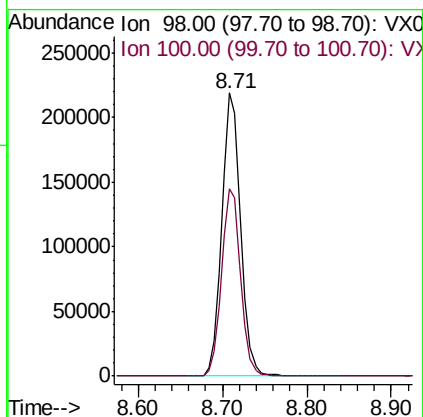
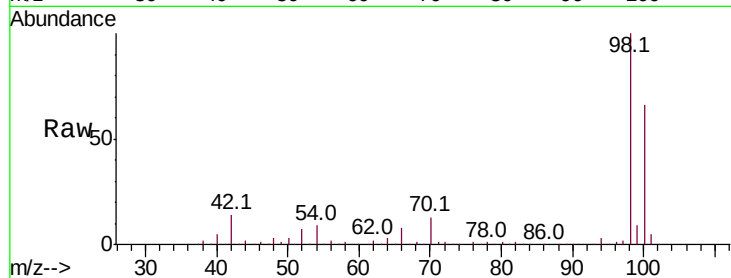




#50
Toluene-d8
Concen: 51.238 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

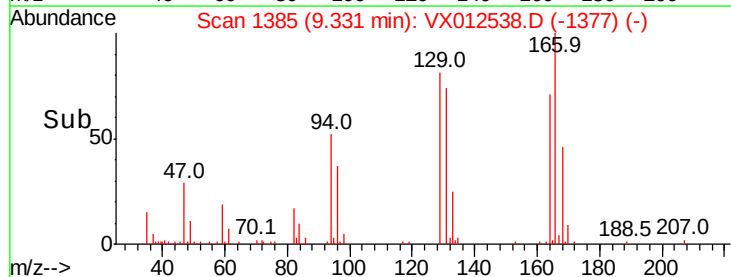
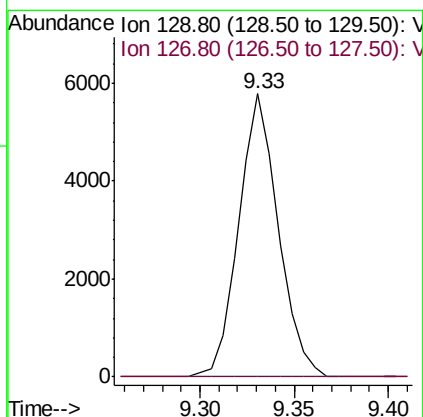
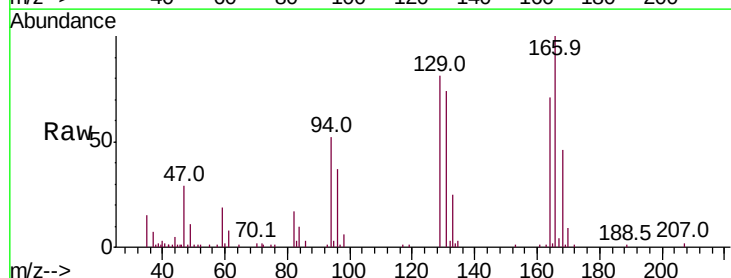
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

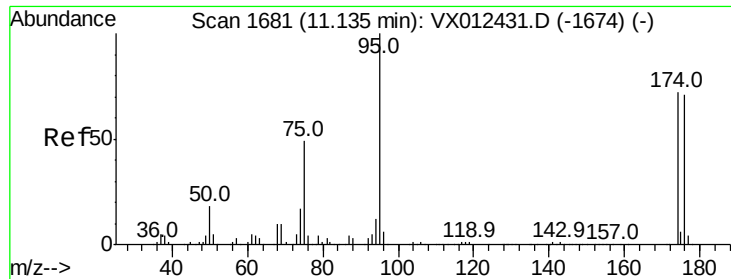
Tot Ion: 98 Resp: 338592
Ion Ratio Lower Upper
98 100
100 66.9 53.4 80.2



#60
Dibromochloromethane
Concen: 4.352 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.25 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

Tgt Ion: 129 Resp: 8389
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.6#





#62

4-Bromofluorobenzene

Concen: 44.731 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

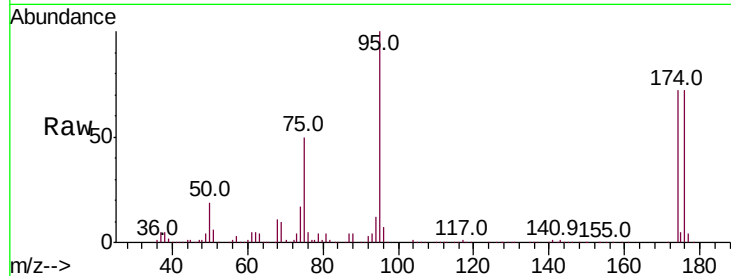
Tot Ion: 95 Resp: 122732

Ion Ratio Lower Upper

95 100

174 69.6 0.0 140.0

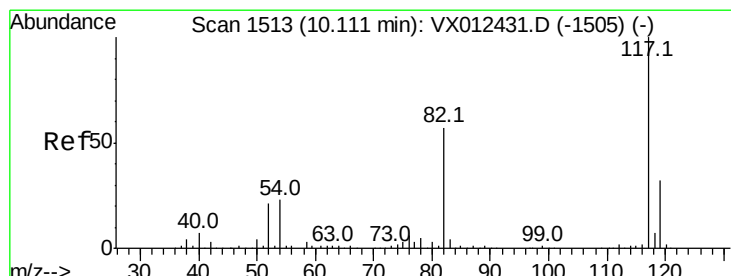
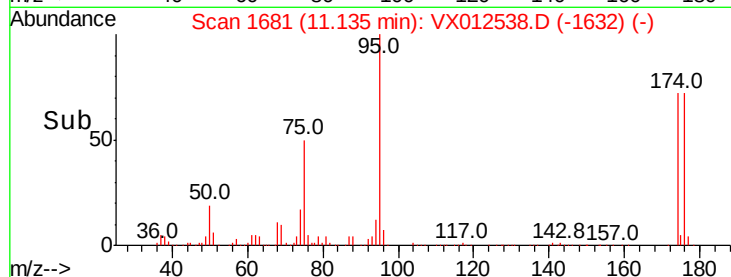
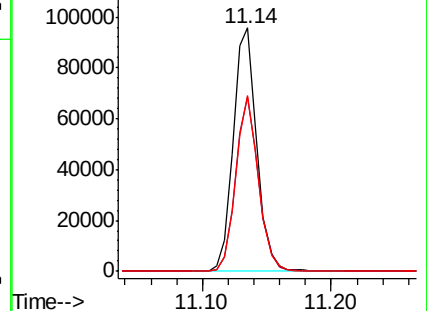
176 68.7 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012431.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012431.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012431.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

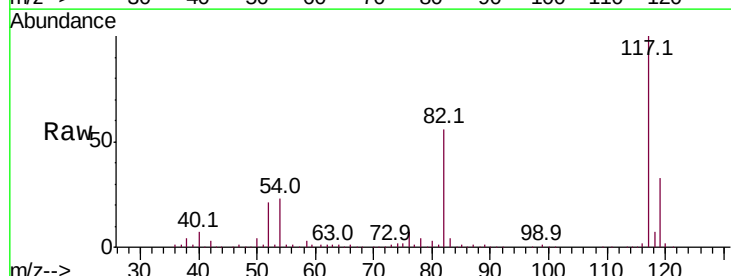
Tgt Ion: 117 Resp: 248580

Ion Ratio Lower Upper

117 100

82 56.4 45.9 68.9

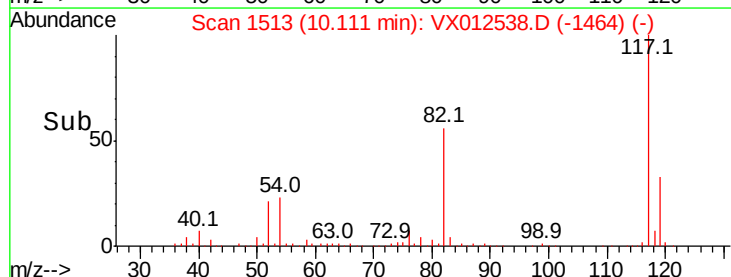
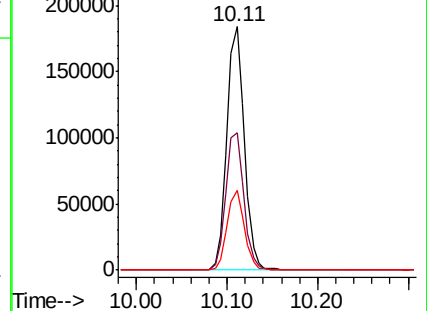
119 32.8 25.3 37.9

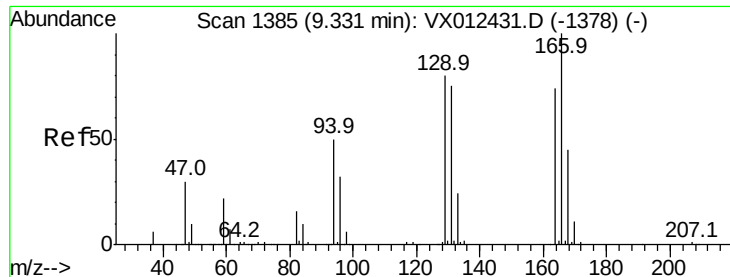


Abundance Ion 116.90 (116.60 to 117.60): VX012431.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012431.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012431.D (-1505) (-)

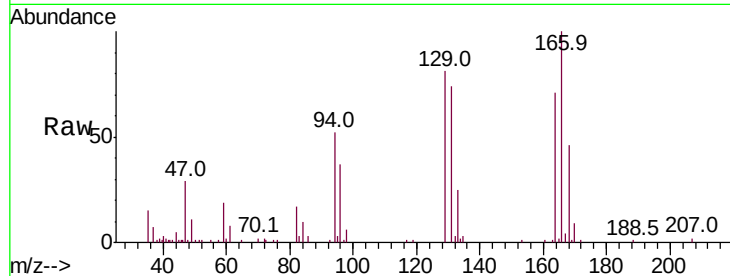




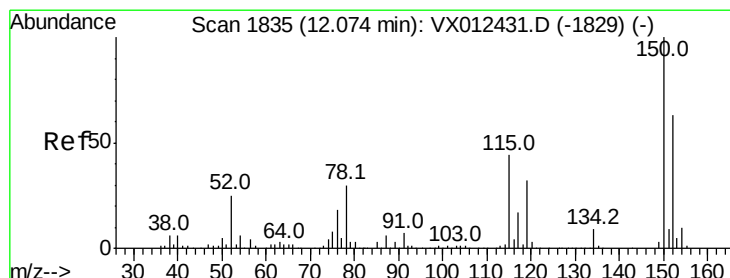
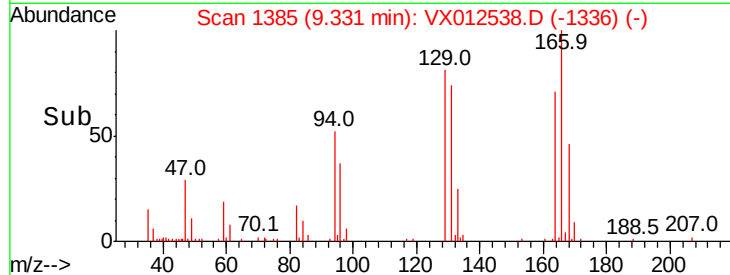
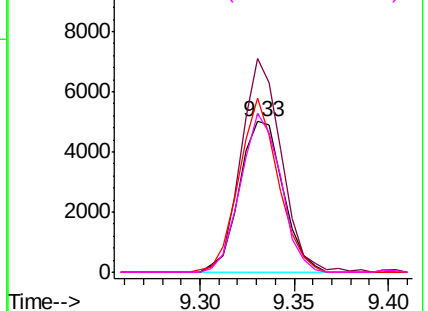
#64
Tetrachloroethene
Concen: 7.062 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

Tot Ion:164 Resp: 8044
Ion Ratio Lower Upper
164 100
166 141.8 107.8 161.6
129 115.5 86.2 129.2
131 105.2 80.4 120.6

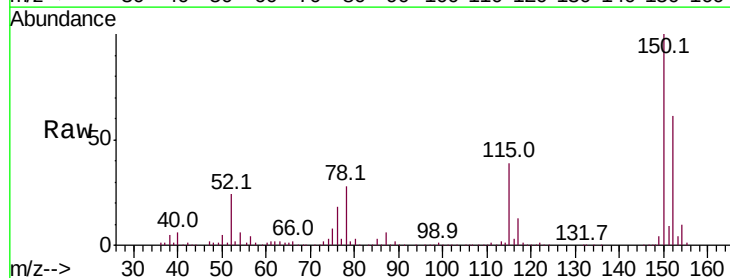


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

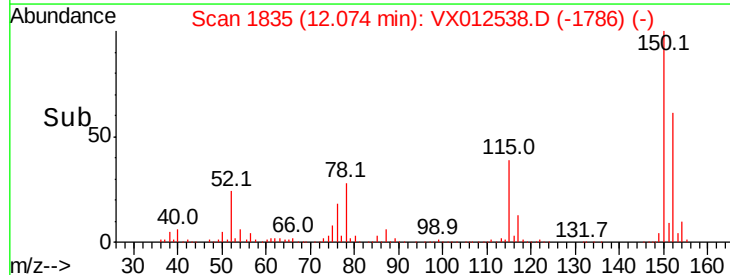
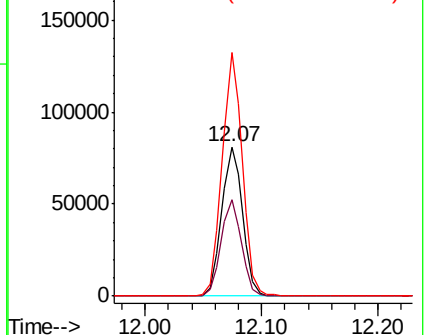


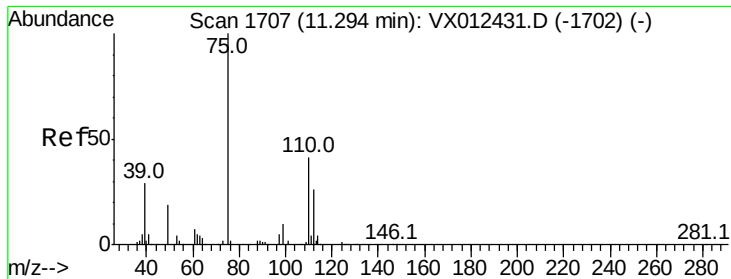
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012538.D
Acq: 19 Sep 2019 19:04

Tgt Ion:152 Resp: 100047
Ion Ratio Lower Upper
152 100
115 62.6 44.1 132.3
150 158.2 0.0 343.8



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





#76

1,2,3-Trichloropropane

Concen: 27.640 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Instrument :

MSVOA_X

ClientSampleId :

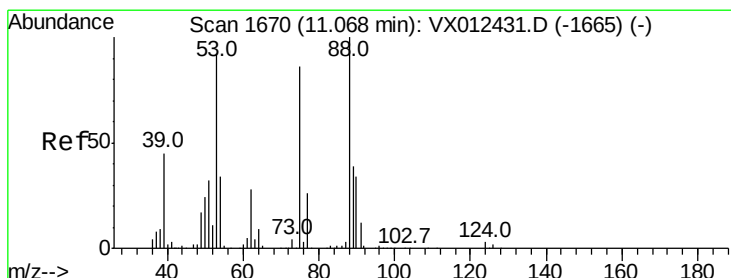
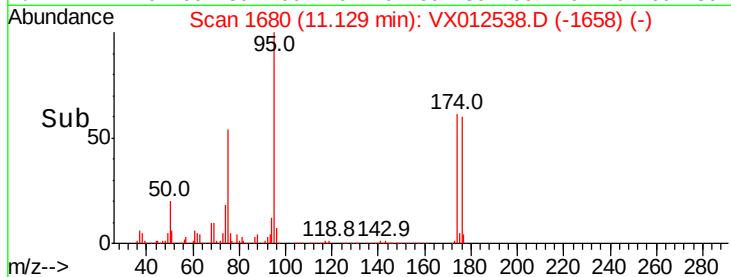
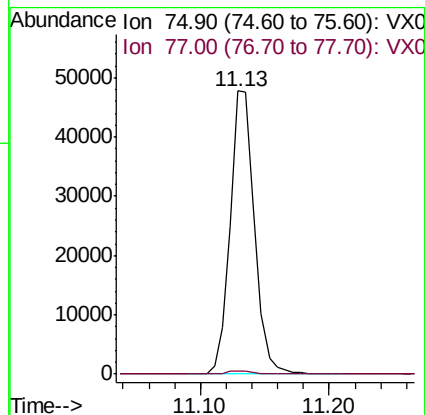
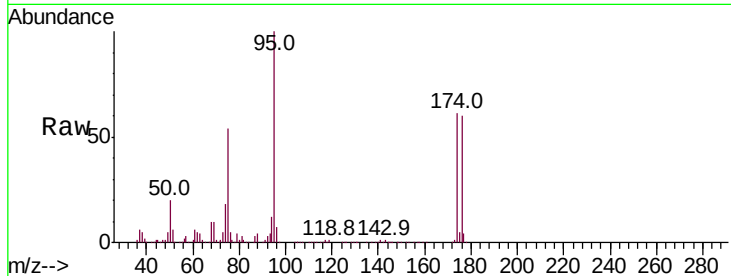
RE132D7-20190911DL

Tot Ion: 75 Resp: 63521

Ion Ratio Lower Upper

75 100

77 1.1 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.279 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012538.D

Acq: 19 Sep 2019 19:04

Tgt Ion: 75 Resp: 63521

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#

