

Data File : VX012445.D
Acq On : 17 Sep 2019 20:39
Operator : JC/SP
Sample : K4858-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE135D2-20190910

Quant Time: Sep 18 03:26:45 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	131258	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	212272	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	172062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	64477	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	90461	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
35) Dibromofluoromethane	5.49	113	65175	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
50) Toluene-d8	8.71	98	242155	50.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.14	95	82792	41.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.86%	

Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.42	85	31	0.426	ug/l #	43
3) Chloromethane	1.31	50	624	0.865	ug/l	94
5) Bromomethane	1.64	94	581	1.896	ug/l #	60
6) Chloroethane	1.71	64	295	0.483	ug/l #	80
10) Methyl Iodide	2.51	142	274	4.723	ug/l #	82
11) Tert butyl alcohol	3.03	59	1899	Below Cal		97
15) Acrylonitrile	3.13	53	169	0.207	ug/l #	65
16) Acetone	2.43	43	2868	Below Cal		99
17) Carbon Disulfide	2.56	76	304	2.057	ug/l #	25
18) Methyl Acetate	2.59	43	13192	6.730	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	1746	0.811	ug/l #	81
25) 2-Butanone	4.68	43	268	0.205	ug/l #	51
29) Tetrahydrofuran	5.11	42	238	0.330	ug/l #	34
36) 1,1-Dichloropropene	5.65	75	11437	8.865	ug/l #	54
38) Carbon Tetrachloride	5.65	117	14343	8.939	ug/l #	17
45) 1,2-Dichloropropane	7.50	63	4362	3.461	ug/l	91
49) 1,4-Dioxane	7.87	88	19	0.466	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	42951	29.000	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	42951	77.781	ug/l #	8

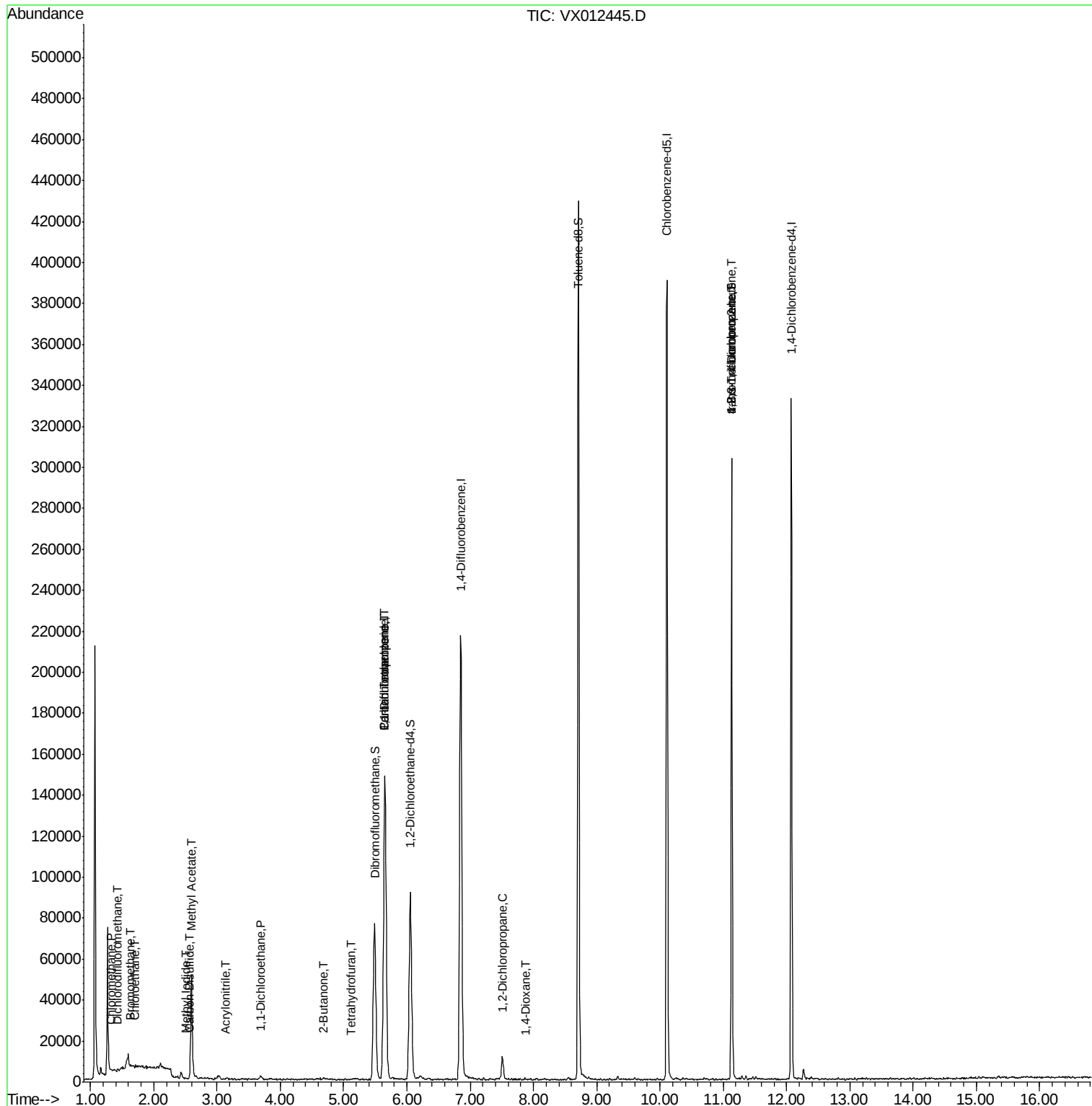
(#) = qualifier out of range (m) = manual integration (+) = signals summed

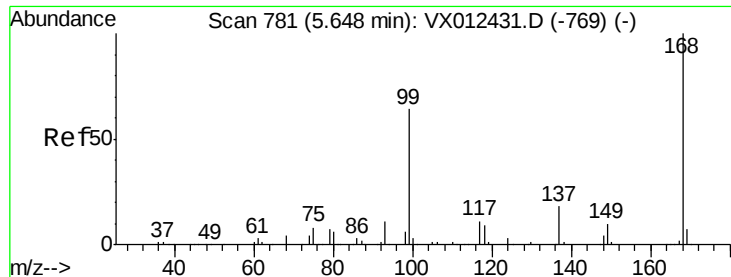
Data File : VX012445.D

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

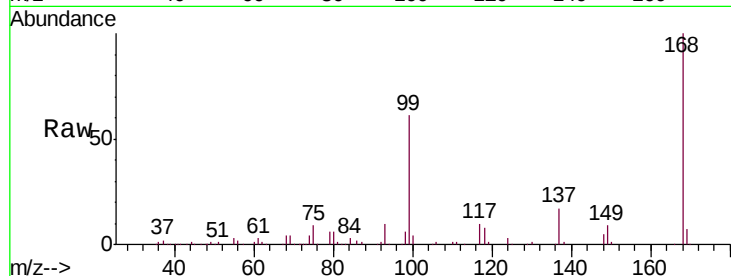
RE135D2-20190910

Tgt Ion:168 Resp: 131258

Ion Ratio Lower Upper

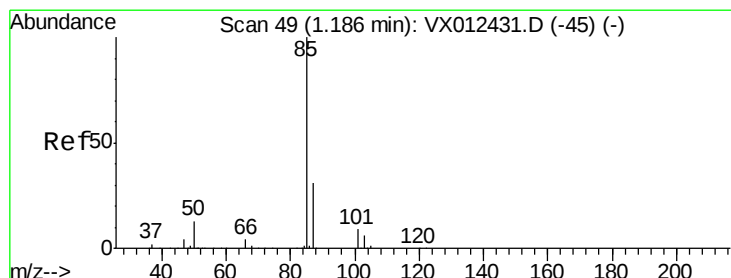
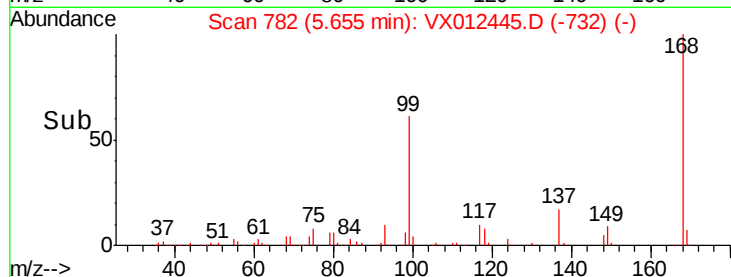
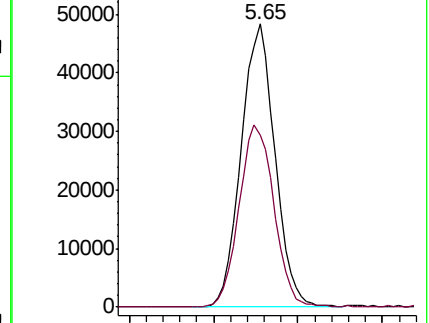
168 100

99 61.0 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: 0.426 ug/l

RT: 1.42 min Scan# 88

Delta R.T. 0.24 min

Lab File: VX012445.D

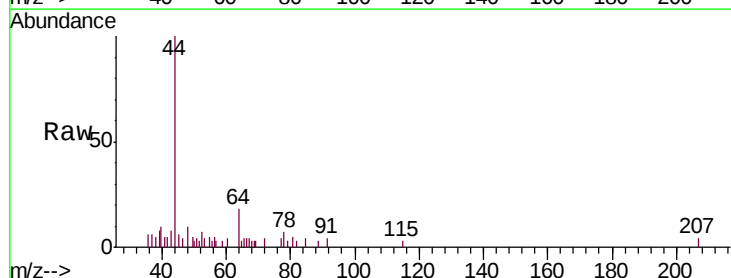
Acq: 17 Sep 2019 20:39

Tgt Ion: 85 Resp: 31

Ion Ratio Lower Upper

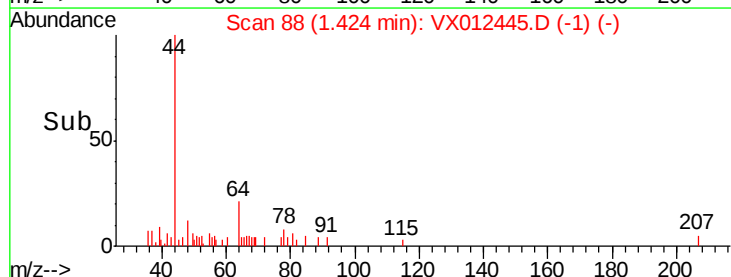
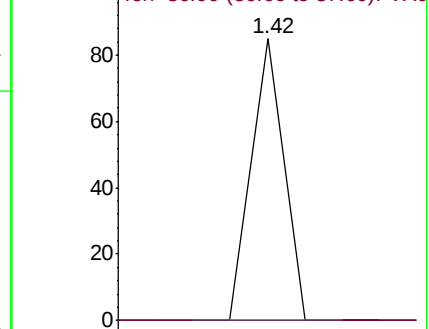
85 100

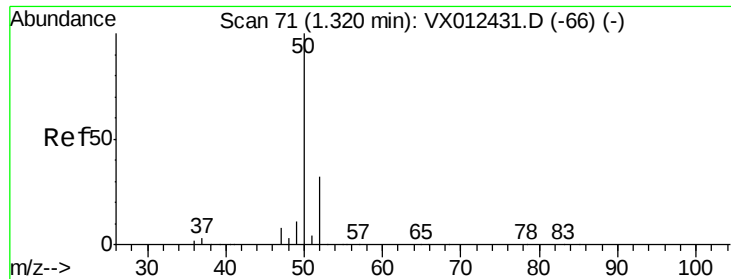
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.865 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

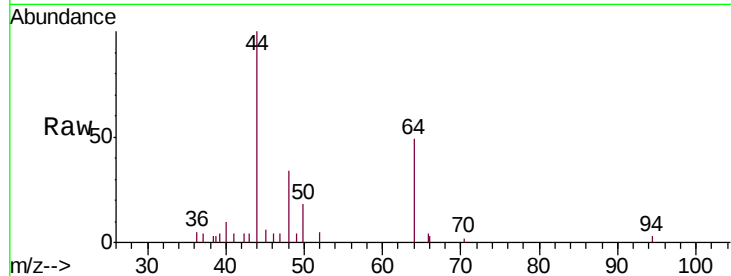
RE135D2-20190910

Tgt Ion: 50 Resp: 624

Ion Ratio Lower Upper

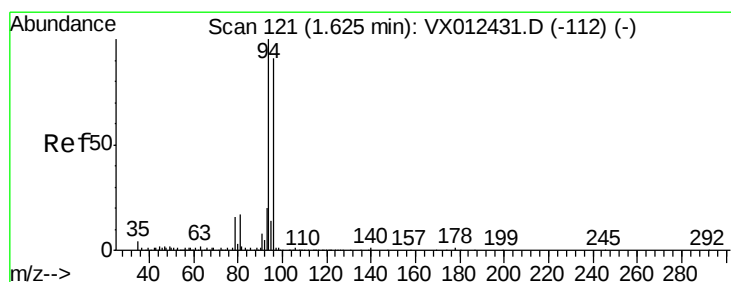
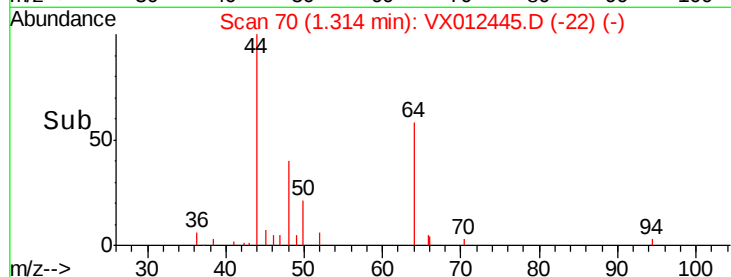
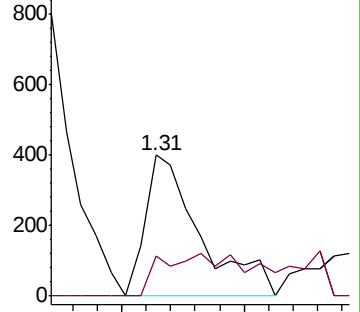
50 100

52 28.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 1.896 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012445.D

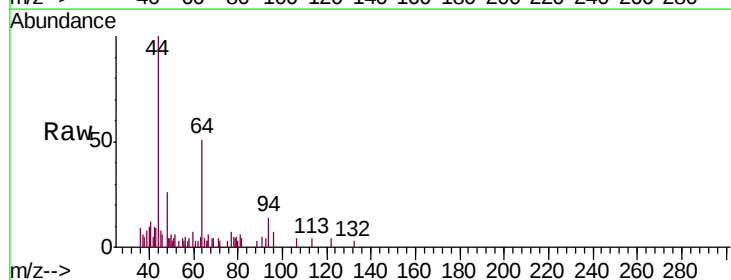
Acq: 17 Sep 2019 20:39

Tgt Ion: 94 Resp: 581

Ion Ratio Lower Upper

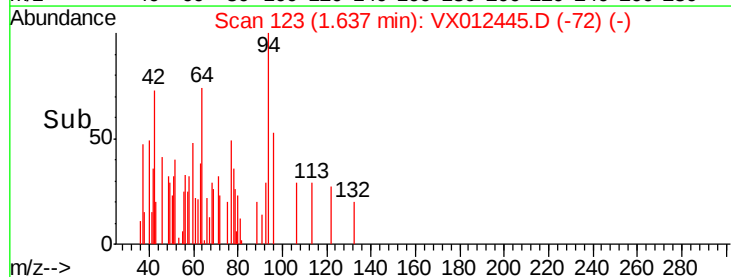
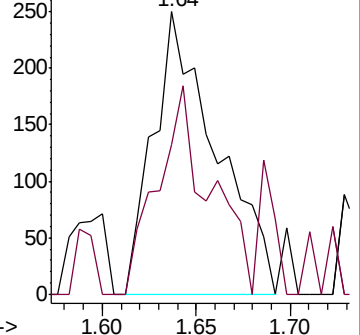
94 100

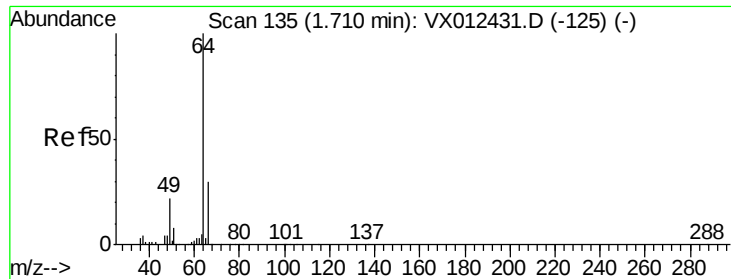
96 52.8 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.483 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

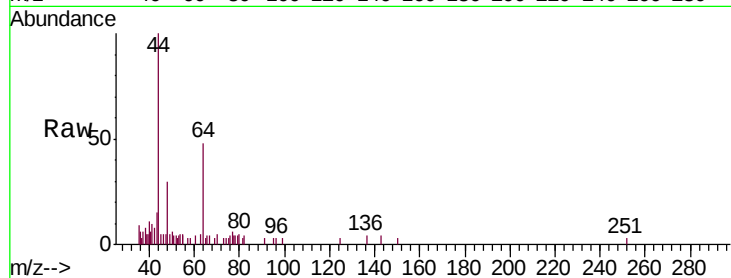
RE135D2-20190910

Tgt Ion: 64 Resp: 295

Ion Ratio Lower Upper

64 100

66 40.7 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

800

600

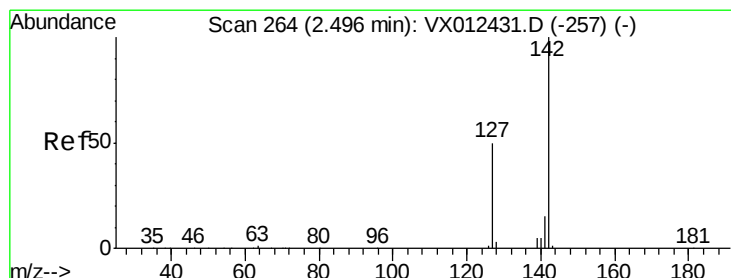
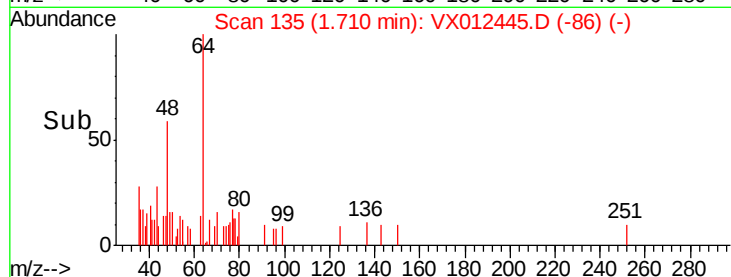
400

200

0

1.69 1.70 1.71 1.72 1.73

Time-->



#10

Methyl Iodide

Concen: 4.723 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

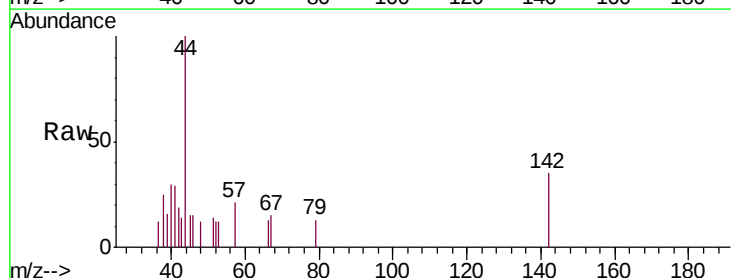
Tgt Ion: 142 Resp: 274

Ion Ratio Lower Upper

142 100

127 42.3 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

200

150

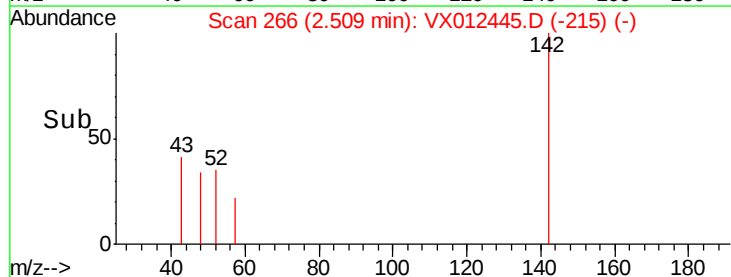
100

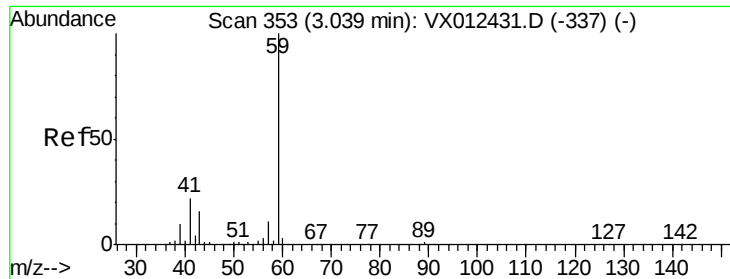
50

0

2.50 2.51 2.55

Time-->

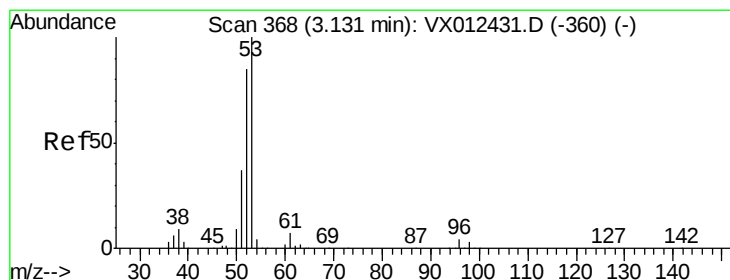
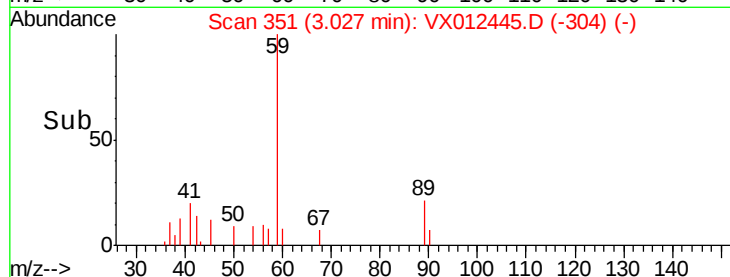
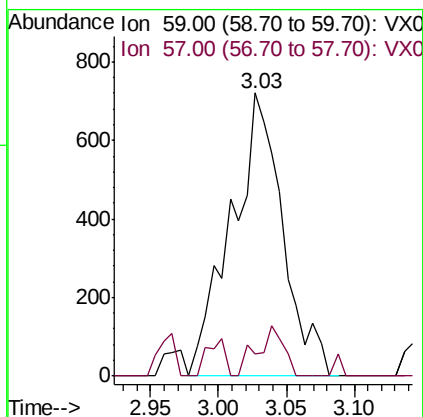
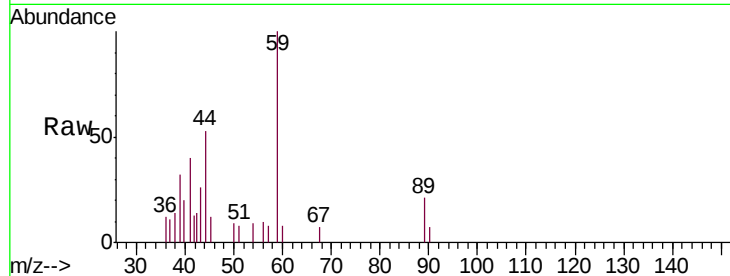




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012445.D
Acq: 17 Sep 2019 20:39

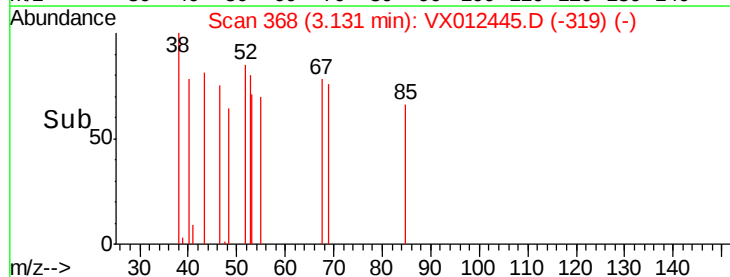
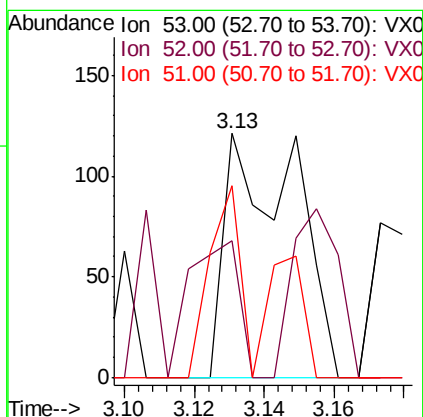
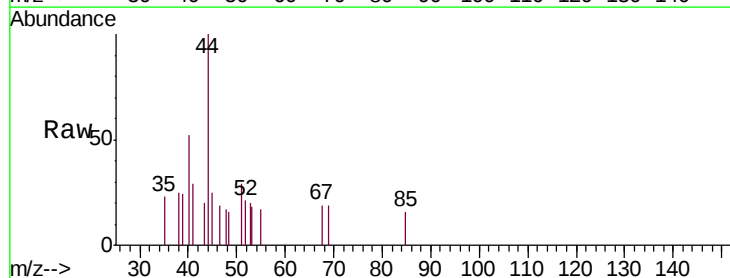
Instrument :
MSVOA_X
ClientSampleId :
RE135D2-20190910

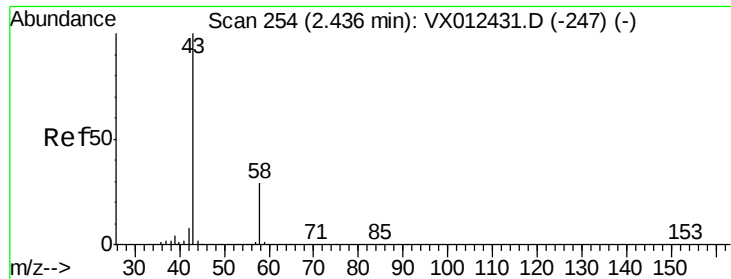
Tgt Ion: 59 Resp: 1899
Ion Ratio Lower Upper
59 100
57 9.2 8.3 12.5



#15
Acrylonitrile
Concen: 0.207 ug/l
RT: 3.13 min Scan# 368
Delta R.T. 0.00 min
Lab File: VX012445.D
Acq: 17 Sep 2019 20:39

Tgt Ion: 53 Resp: 169
Ion Ratio Lower Upper
53 100
52 39.6 67.0 100.4#
51 33.7 29.6 44.4





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

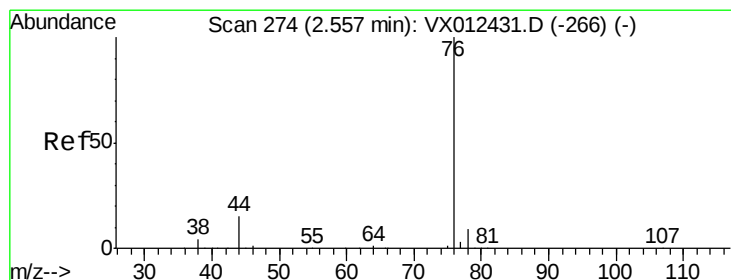
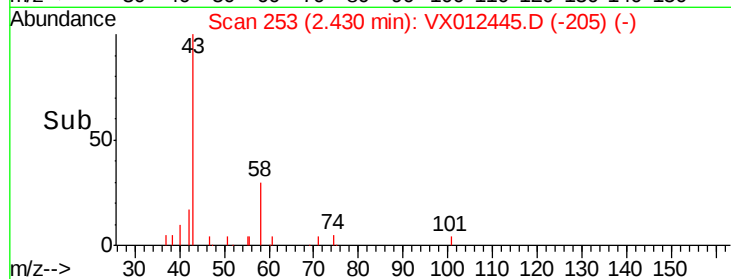
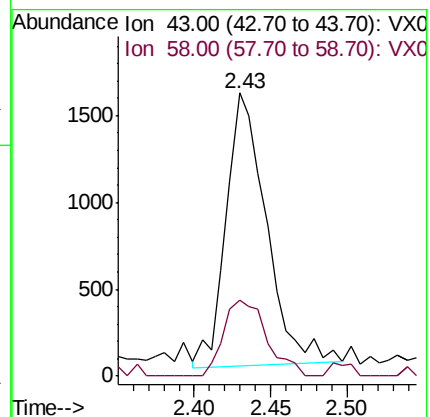
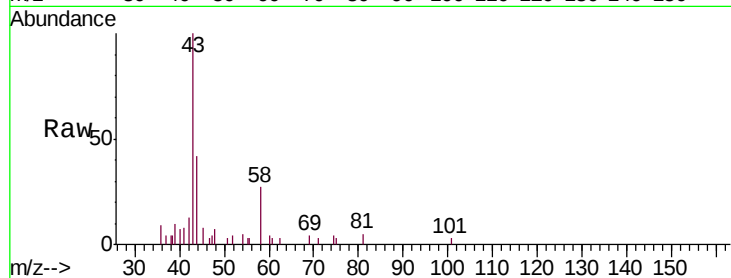
RE135D2-20190910

Tgt Ion: 43 Resp: 2868

Ion Ratio Lower Upper

43 100

58 28.5 23.3 34.9



#17

Carbon Disulfide

Concen: 2.057 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012445.D

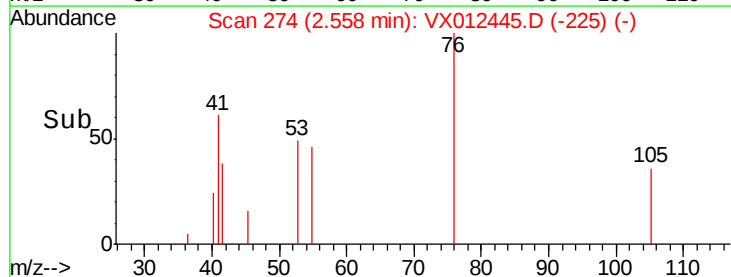
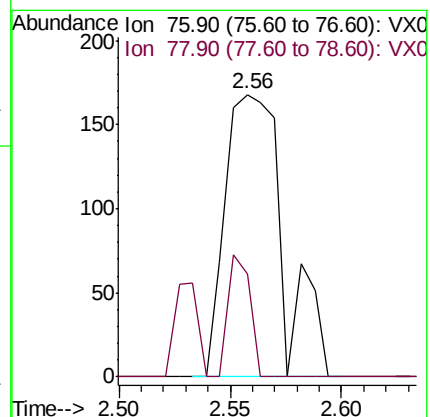
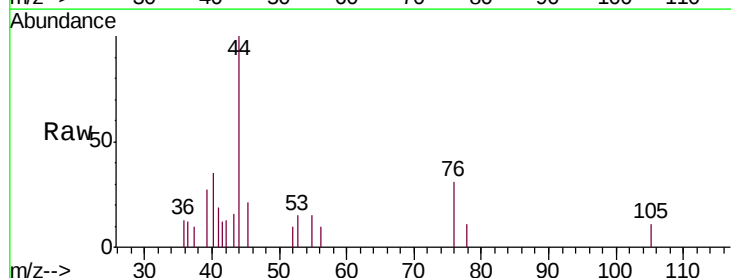
Acq: 17 Sep 2019 20:39

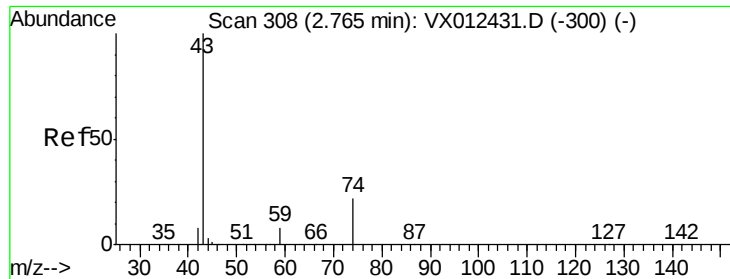
Tgt Ion: 76 Resp: 304

Ion Ratio Lower Upper

76 100

78 36.3 7.3 10.9#

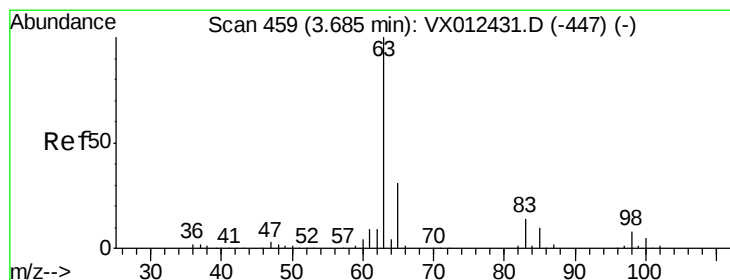
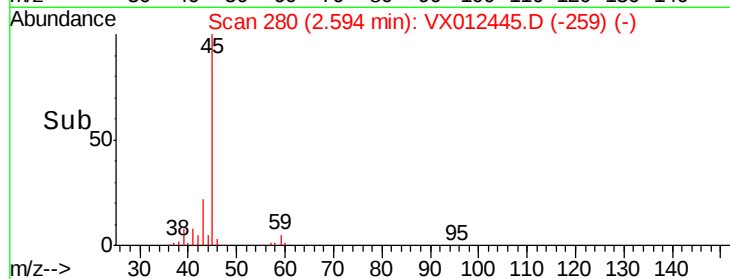
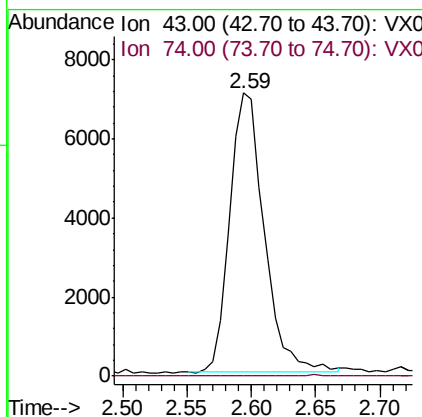
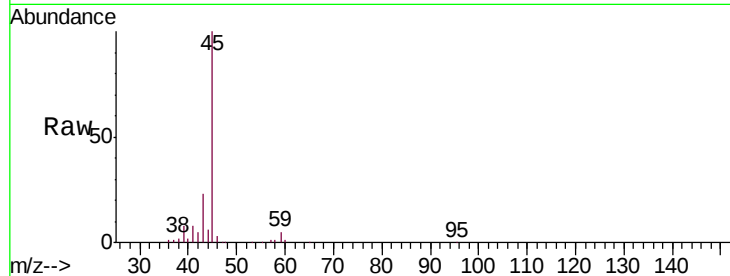




#18
Methyl Acetate
Concen: 6.730 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012445.D
Acq: 17 Sep 2019 20:39

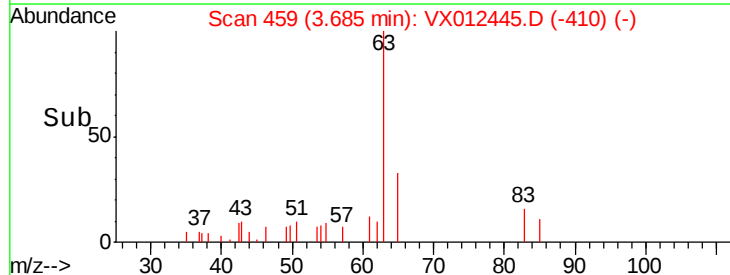
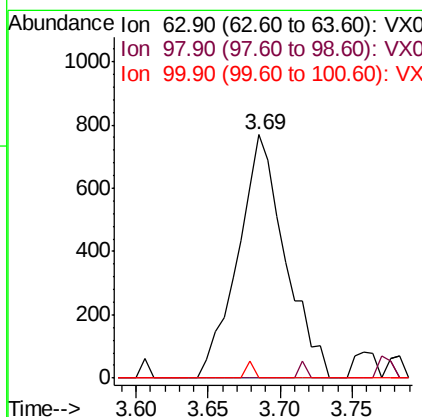
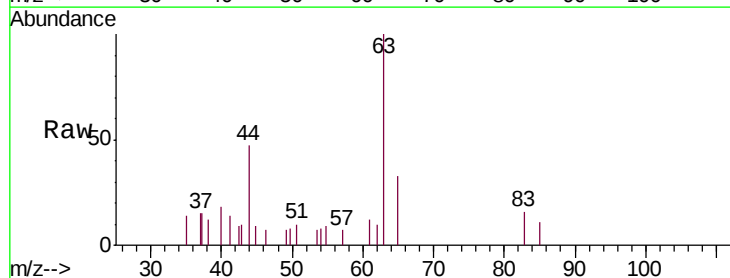
Instrument :
MSVOA_X
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RE135D2-20190910

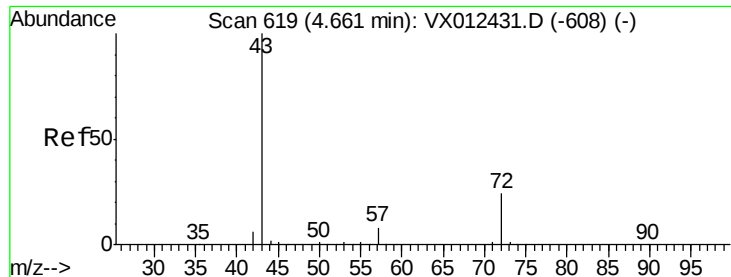
Tgt Ion: 43 Resp: 13192
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#24
1,1-Dichloroethane
Concen: 0.811 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX012445.D
Acq: 17 Sep 2019 20:39

Tgt Ion: 63 Resp: 1746
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.3 6.9#





#25

2-Butanone

Concen: 0.205 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

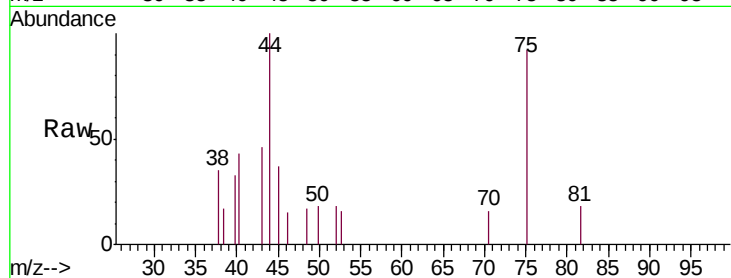
RE135D2-20190910

Tgt Ion: 43 Resp: 268

Ion Ratio Lower Upper

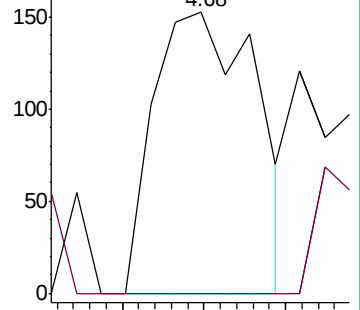
43 100

72 0.0 19.2 28.8#

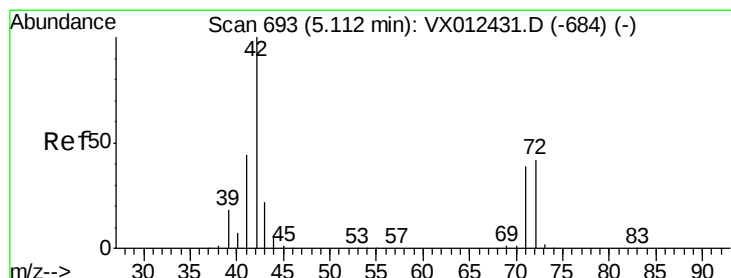
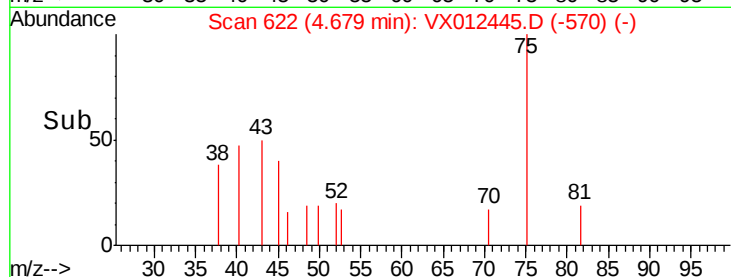


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.330 ug/l

RT: 5.11 min Scan# 693

Delta R.T. 0.00 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

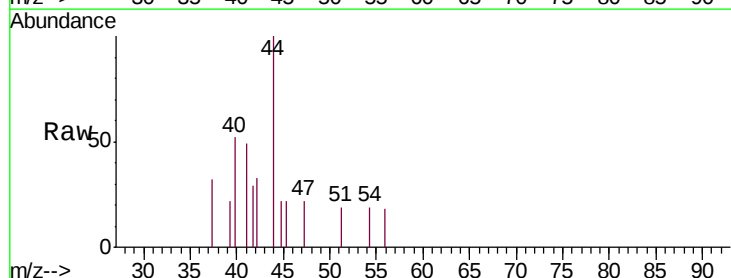
Tgt Ion: 42 Resp: 238

Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

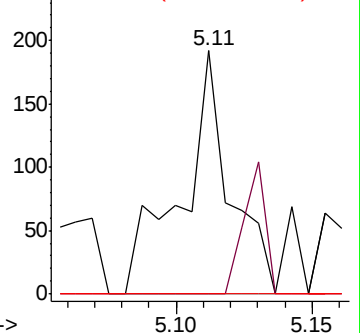
71 0.0 31.5 47.3#



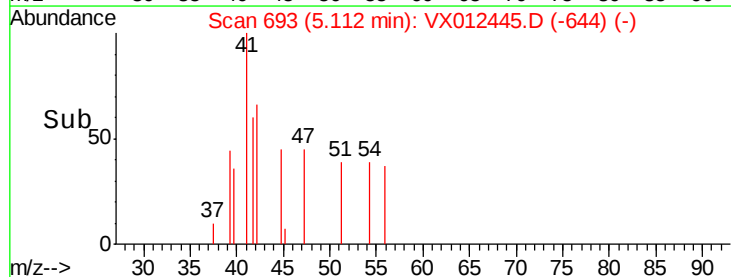
Abundance Ion 42.00 (41.70 to 42.70): VX0

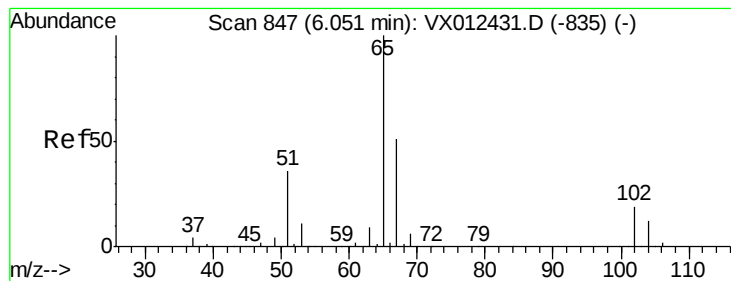
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.087 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

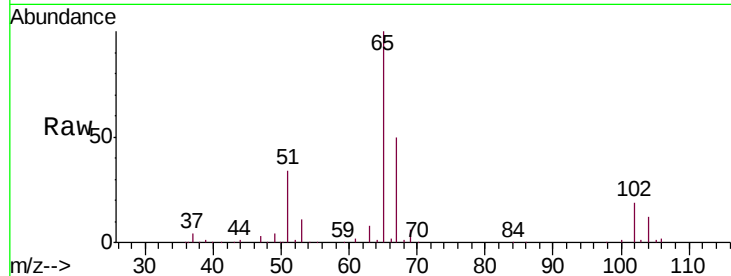
RE135D2-20190910

Tgt Ion: 65 Resp: 90461

Ion Ratio Lower Upper

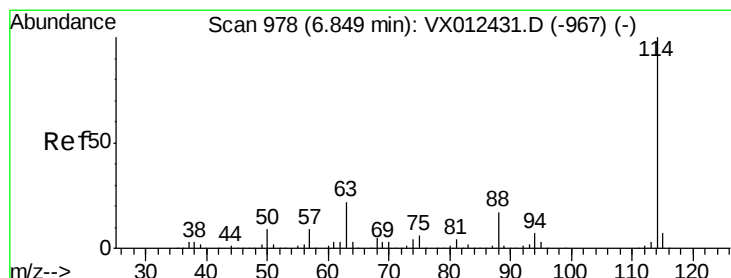
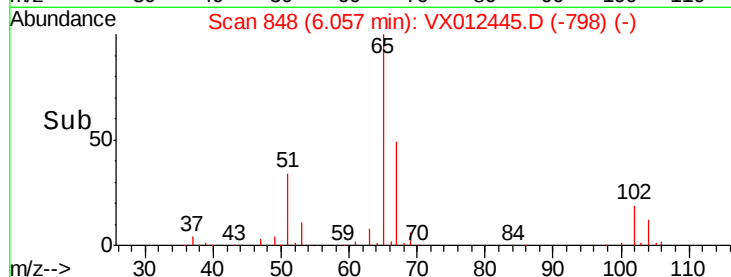
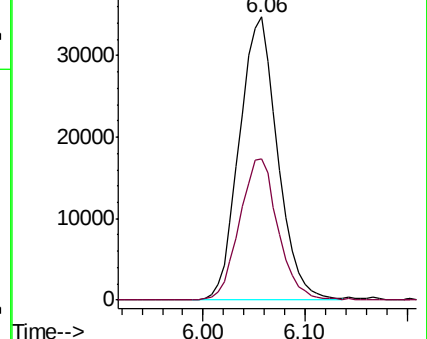
65 100

67 50.4 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: VX012445.D

Acq: 17 Sep 2019 20:39

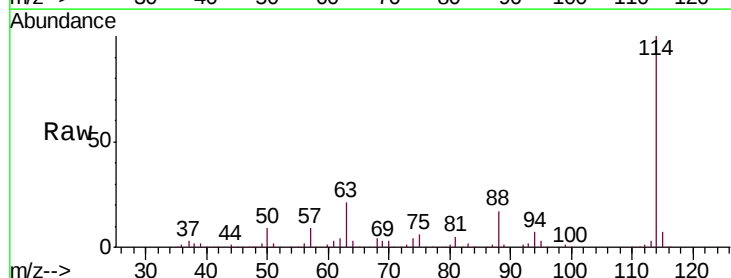
Tgt Ion: 114 Resp: 212272

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

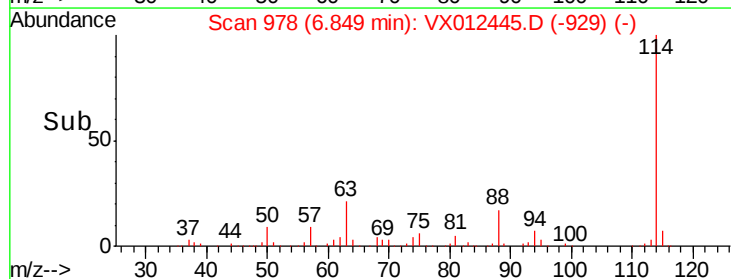
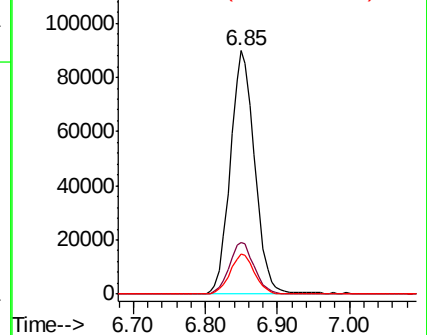
88 16.5 0.0 33.2

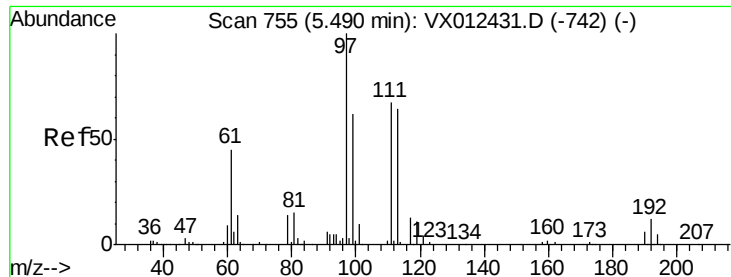


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.728 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20190910

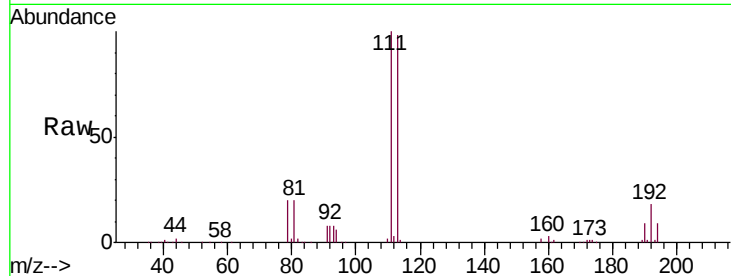
Tgt Ion:113 Resp: 65175

Ion Ratio Lower Upper

113 100

111 99.9 83.4 125.2

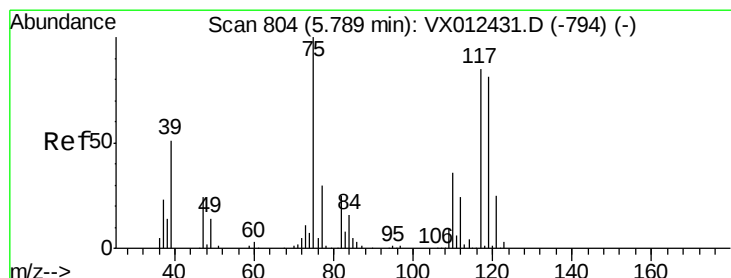
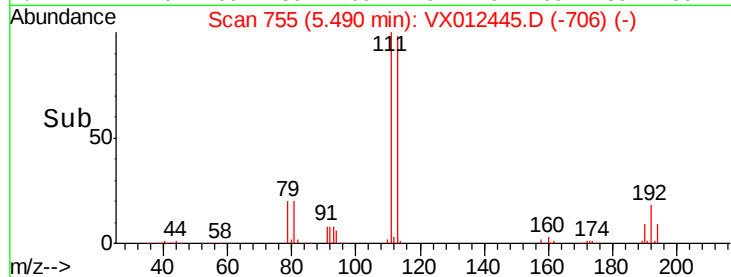
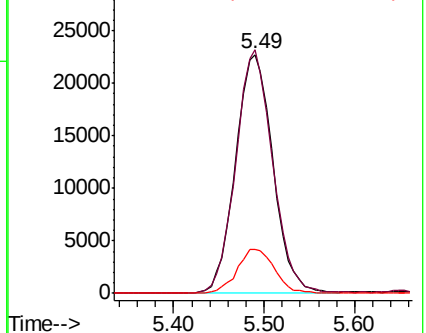
192 18.4 14.4 21.6



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: 8.865 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

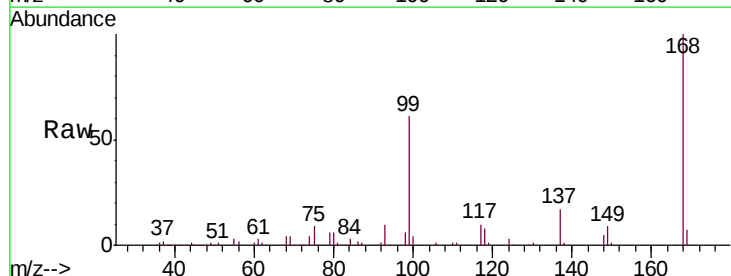
Tgt Ion: 75 Resp: 11437

Ion Ratio Lower Upper

75 100

110 11.7 16.7 50.0#

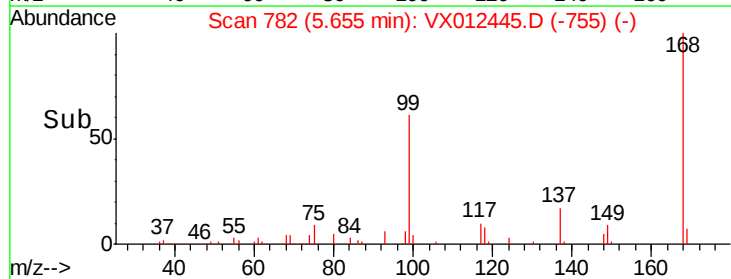
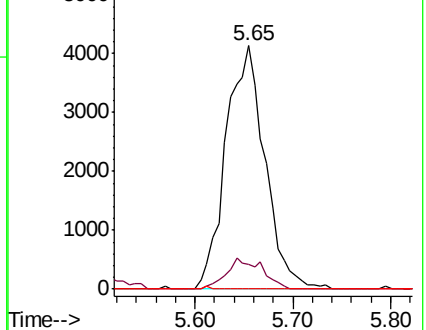
77 0.0 24.2 36.2#

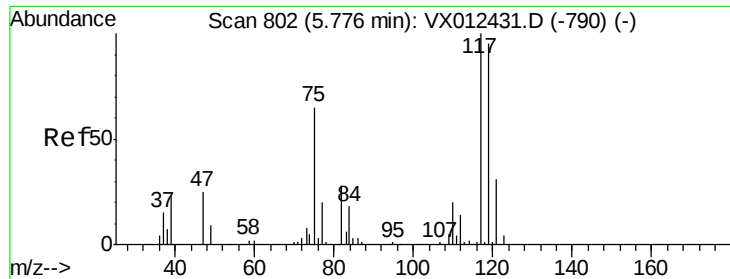


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

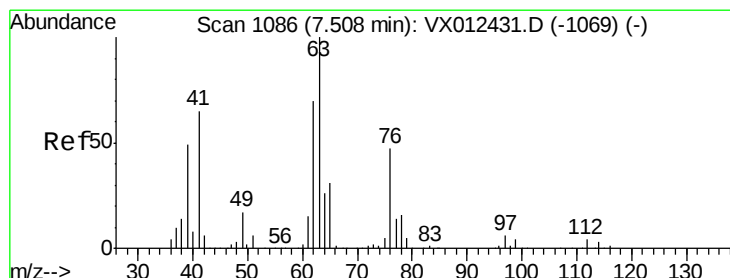
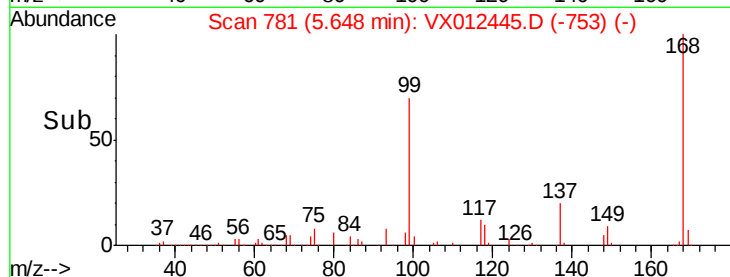
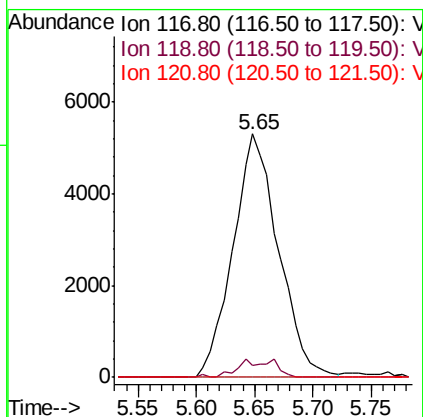
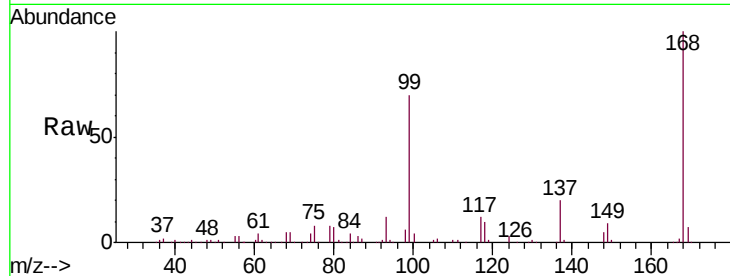




#38
Carbon Tetrachloride
Concen: 8.939 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012445.D
Acq: 17 Sep 2019 20:39

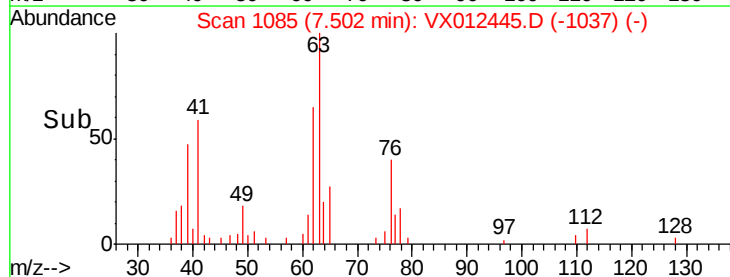
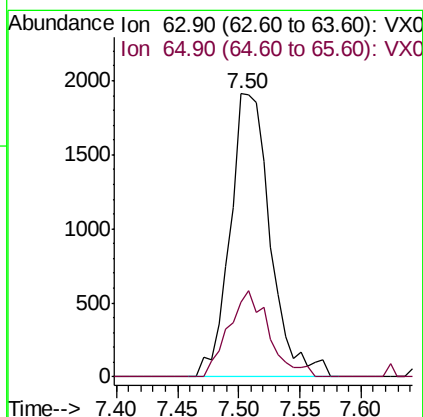
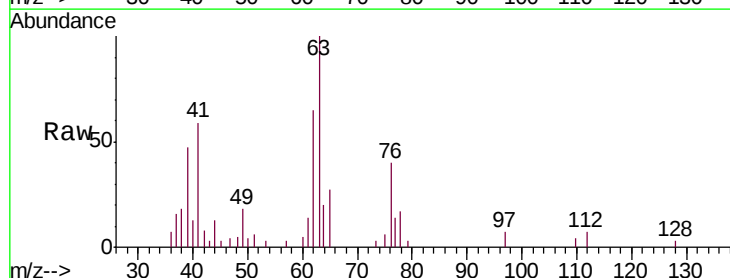
Instrument :
MSVOA_X
ClientSampleId :
RE135D2-20190910

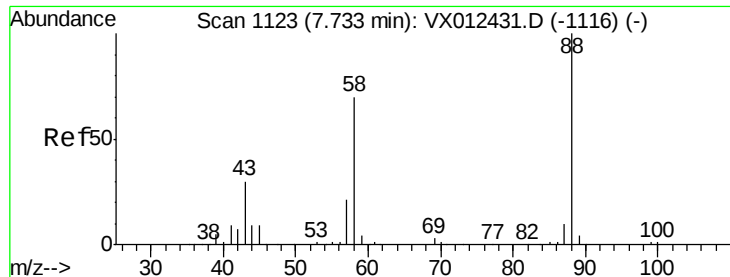
Tgt Ion:117 Resp: 14343
Ion Ratio Lower Upper
117 100
119 5.1 75.7 113.5#
121 0.0 24.2 36.4#



#45
1,2-Dichloropropane
Concen: 3.461 ug/l
RT: 7.50 min Scan# 1085
Delta R.T. -0.01 min
Lab File: VX012445.D
Acq: 17 Sep 2019 20:39

Tgt Ion: 63 Resp: 4362
Ion Ratio Lower Upper
63 100
65 26.6 25.0 37.6





#49

1,4-Dioxane

Concen: 0.466 ug/l

RT: 7.87 min Scan# 1146

Delta R.T. 0.14 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20190910

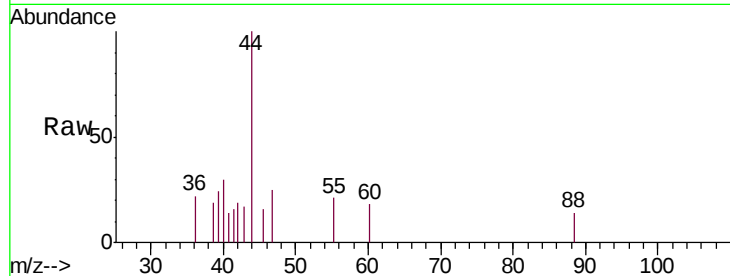
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 478.9 29.4 44.0#

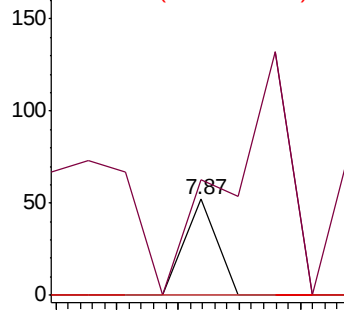
58 0.0 57.5 86.3#



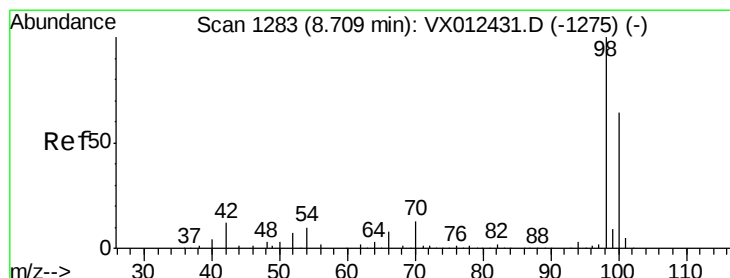
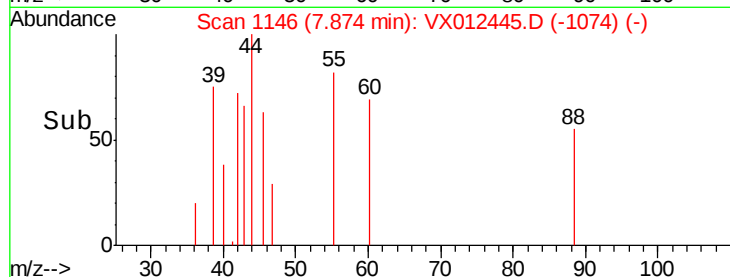
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 50.920 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012445.D

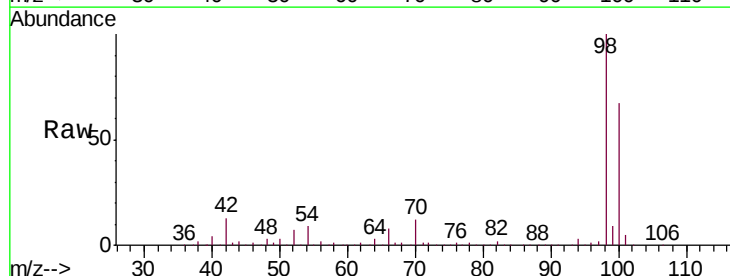
Acq: 17 Sep 2019 20:39

Tgt Ion: 98 Resp: 242155

Ion Ratio Lower Upper

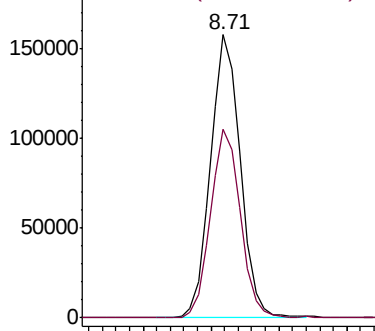
98 100

100 66.9 53.4 80.2

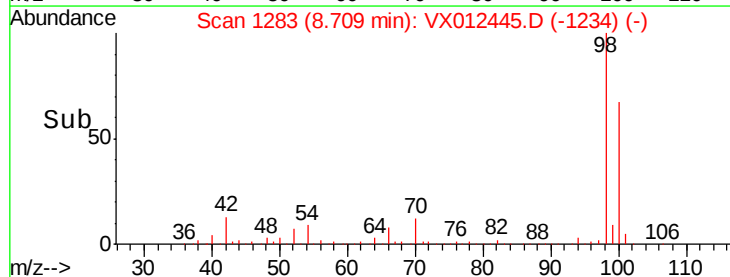


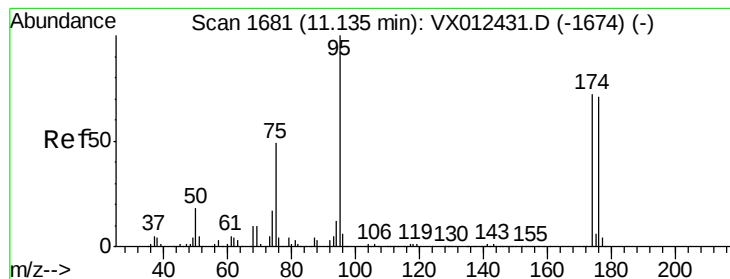
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->





#62

4-Bromofluorobenzene

Concen: 41.929 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20190910

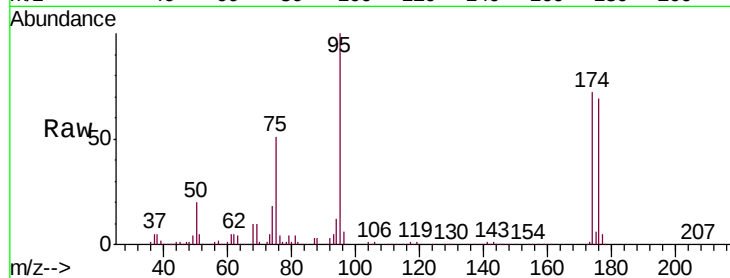
Tgt Ion: 95 Resp: 82792

Ion Ratio Lower Upper

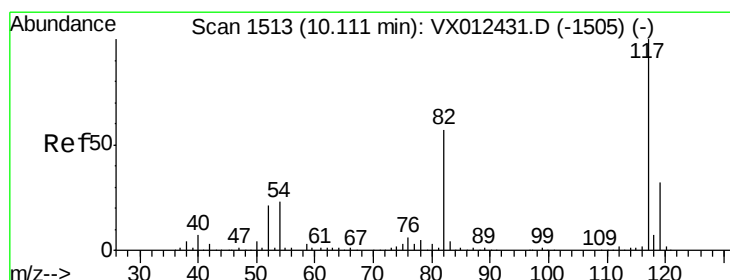
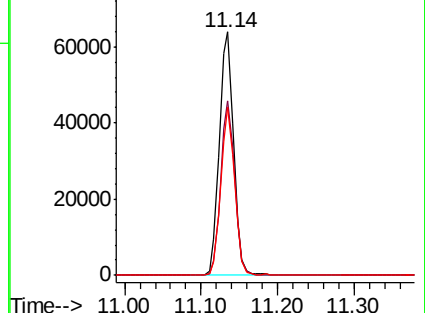
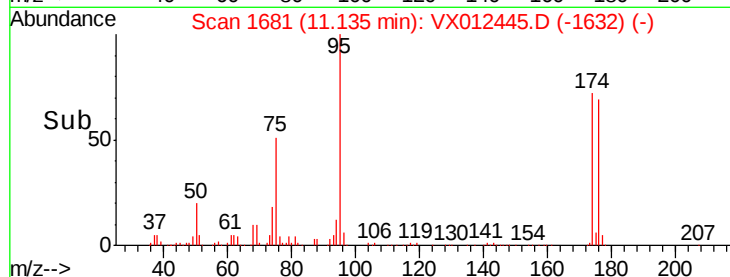
95 100

174 69.8 0.0 140.0

176 66.6 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012445.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

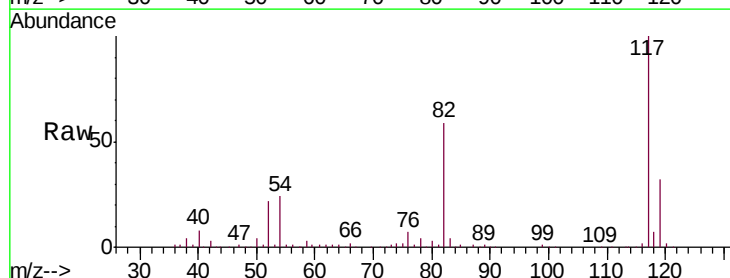
Tgt Ion: 117 Resp: 172062

Ion Ratio Lower Upper

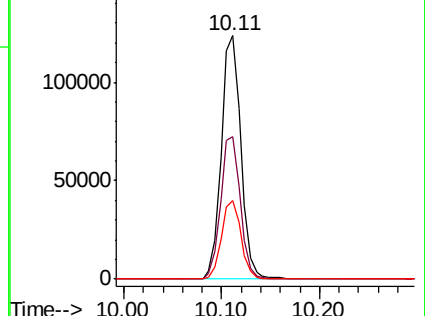
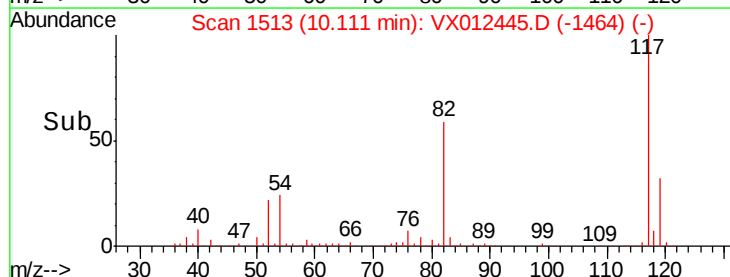
117 100

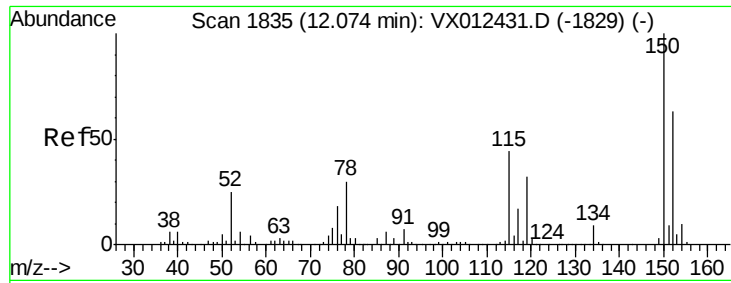
82 58.6 45.9 68.9

119 32.0 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VX012445.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20190910

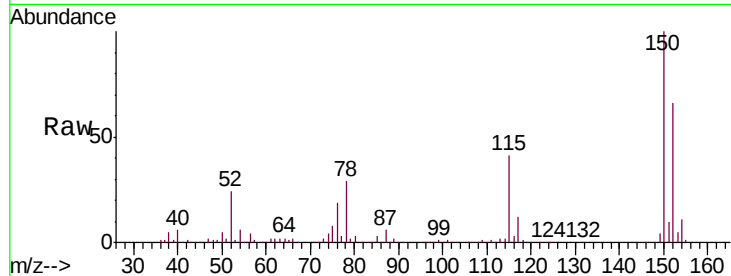
Tgt Ion:152 Resp: 64477

Ion Ratio Lower Upper

152 100

115 61.1 44.1 132.3

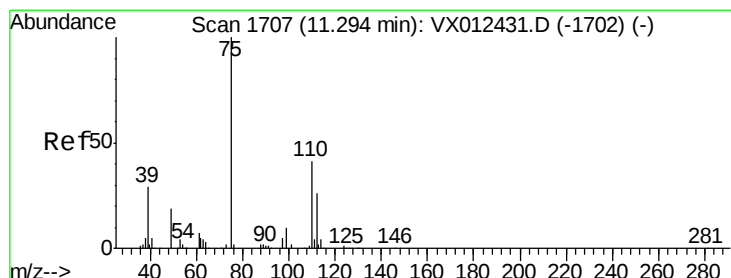
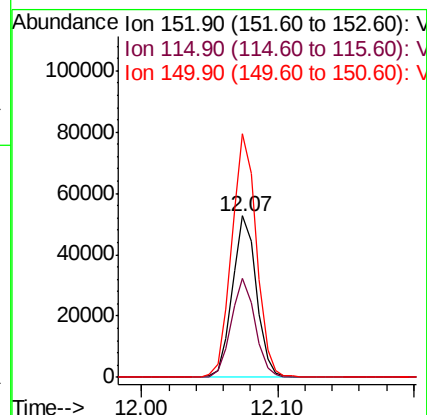
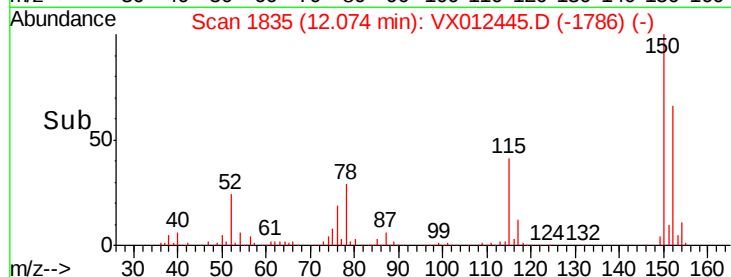
150 154.5 0.0 343.8



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: 29.000 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012445.D

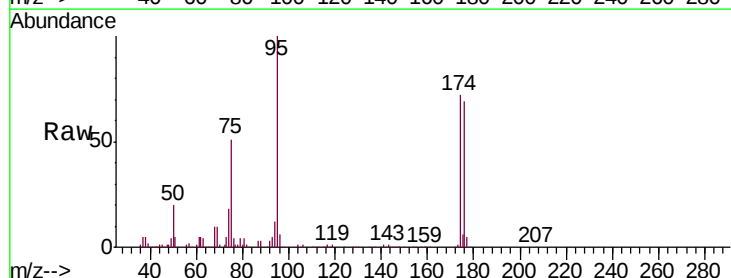
Acq: 17 Sep 2019 20:39

Tgt Ion: 75 Resp: 42951

Ion Ratio Lower Upper

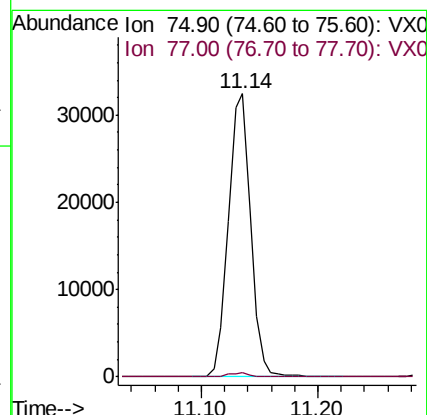
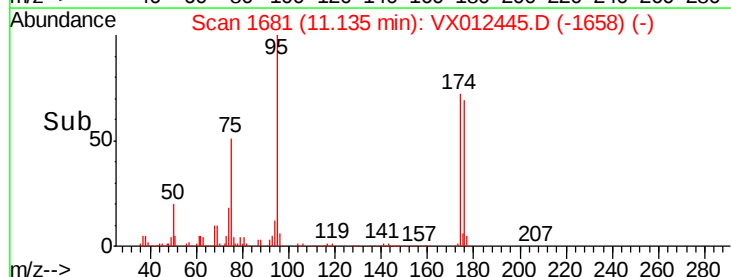
75 100

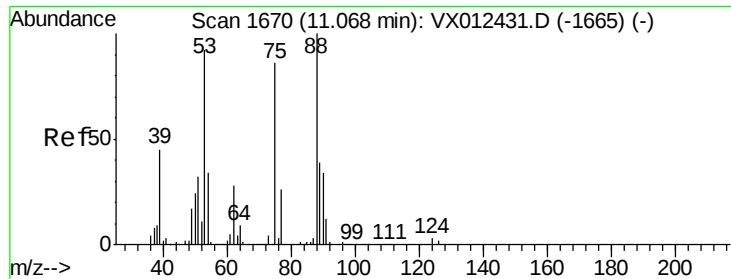
77 1.4 19.7 59.0#



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: 77.781 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012445.D

Acq: 17 Sep 2019 20:39

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20190910

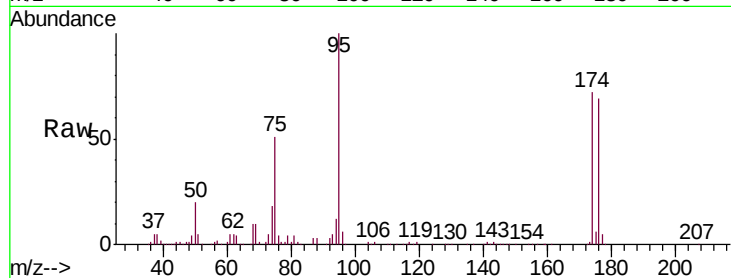
Tgt Ion: 75 Resp: 42951

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

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

