

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032720\
 Data File : VX015414.D
 Acq On : 28 Mar 2020 05:03
 Operator : JC/SP
 Sample : L2033-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SLUDGE-PIT

Quant Time: Mar 30 01:53:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	1109847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1859331	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1752383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	938616	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	764078	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
35) Dibromofluoromethane	5.47	113	590083	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
50) Toluene-d8	8.70	98	2259454	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	
62) 4-Bromofluorobenzene	11.12	95	956116	53.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.52%	

Target Compounds

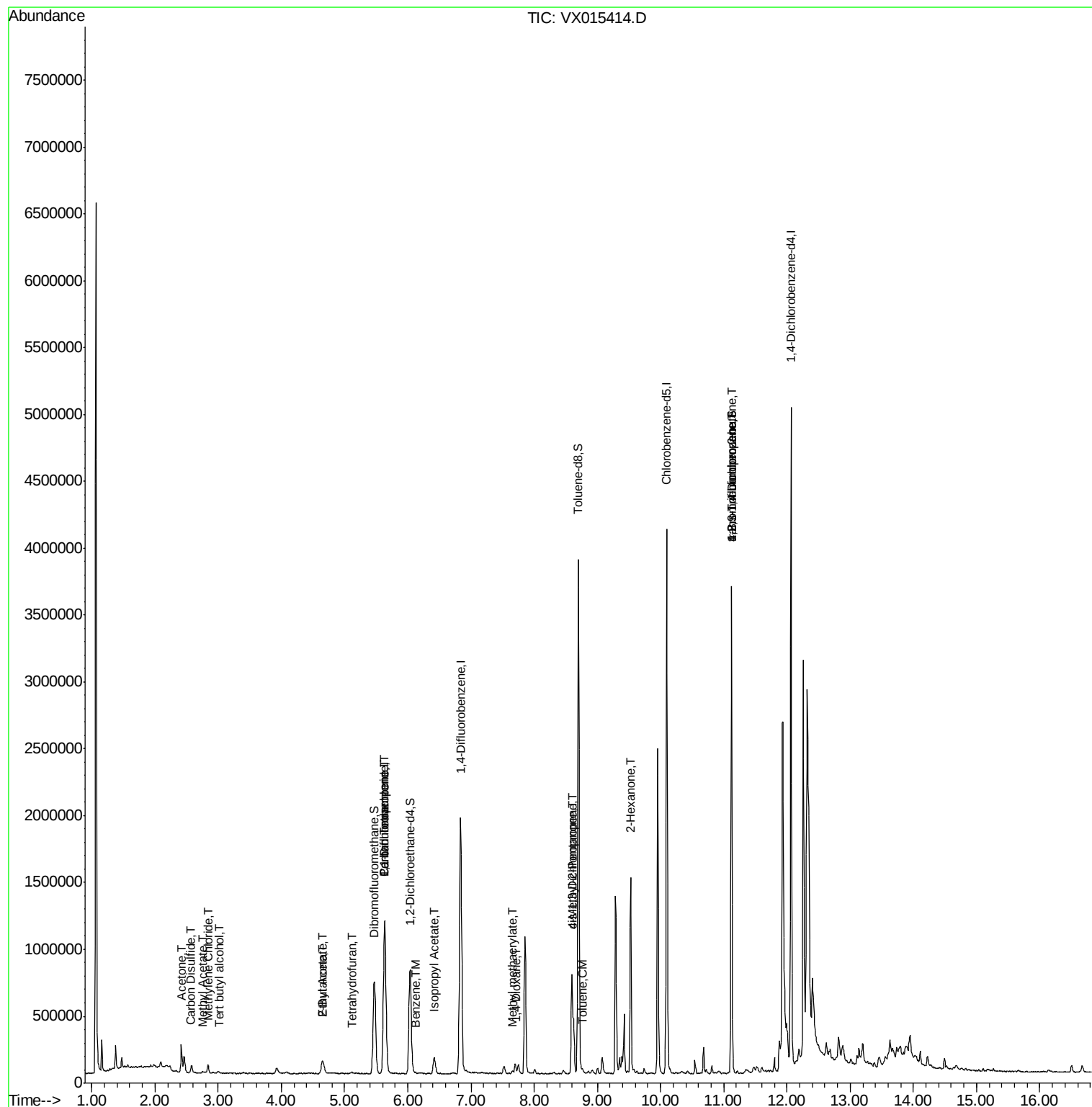
						Qvalue
5) Bromomethane	1.64	94	1019	Below Cal	#	6
11) Tert butyl alcohol	3.01	59	14460	3.859	ug/l #	91
16) Acetone	2.42	43	218844	32.542	ug/l	100
17) Carbon Disulfide	2.56	76	6595	0.206	ug/l #	85
18) Methyl Acetate	2.75	43	16929	0.986	ug/l	94
20) Methylene Chloride	2.84	84	27579	2.196	ug/l	93
25) 2-Butanone	4.64	43	85800	7.933	ug/l	95
29) Tetrahydrofuran	5.12	42	3772	0.543	ug/l #	83
36) 1,1-Dichloropropene	5.63	75	86463	5.047	ug/l #	53
37) Ethyl Acetate	4.64	43	85862	3.849	ug/l #	78
38) Carbon Tetrachloride	5.64	117	108343	5.839	ug/l #	15
40) Benzene	6.12	78	12030	0.240	ug/l	99
43) Isopropyl Acetate	6.42	43	181814	4.828	ug/l	99
48) Methyl methacrylate	7.65	41	23315	1.240	ug/l #	28
49) 1,4-Dioxane	7.72	88	284	0.809	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	295724	13.857	ug/l #	38
52) Toluene	8.76	92	7044	0.228	ug/l	93
54) cis-1,3-Dichloropropene	8.60	75	115745	5.049	ug/l #	55
59) 2-Hexanone	9.53	43	178683	11.090	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	503095	26.065	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	503095	62.541	ug/l #	10

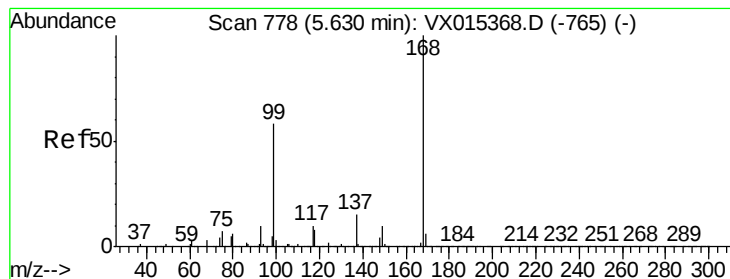
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.00 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

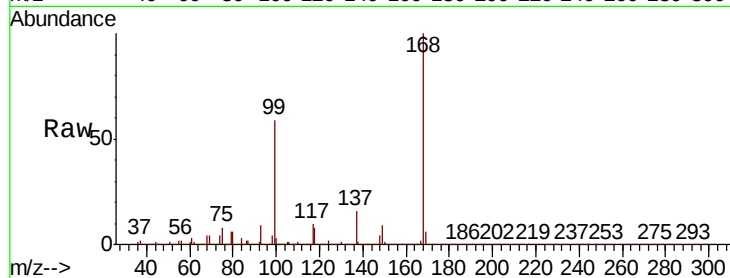
SLUDGE-PIT

Tot Ion:168 Resp: 1109847

Ion Ratio Lower Upper

168 100

99 58.7 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

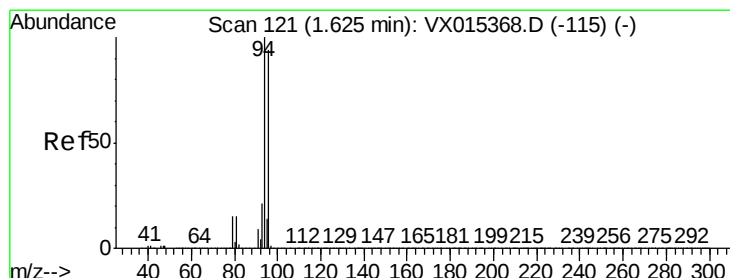
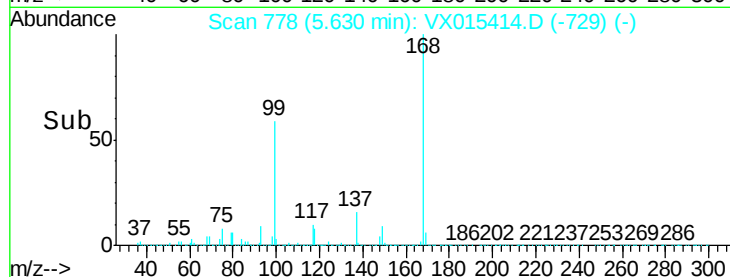
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015414.D

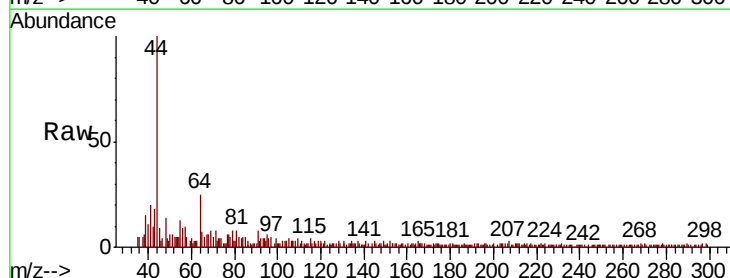
Acq: 28 Mar 2020 05:03

Tgt Ion: 94 Resp: 1019

Ion Ratio Lower Upper

94 100

96 3.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

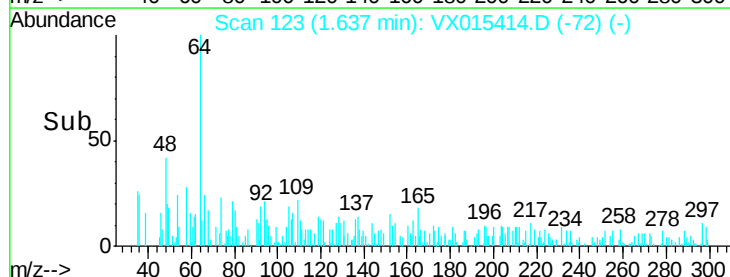
600

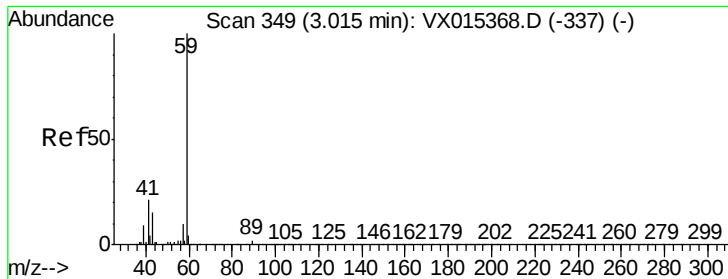
400

200

0

Time-->

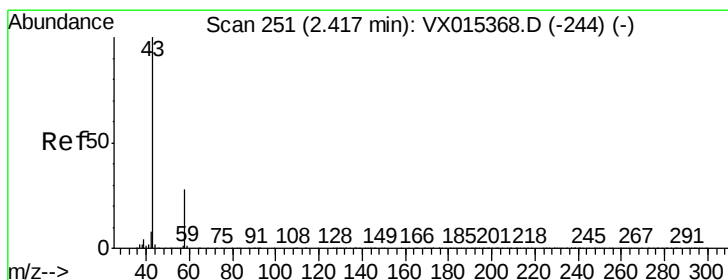
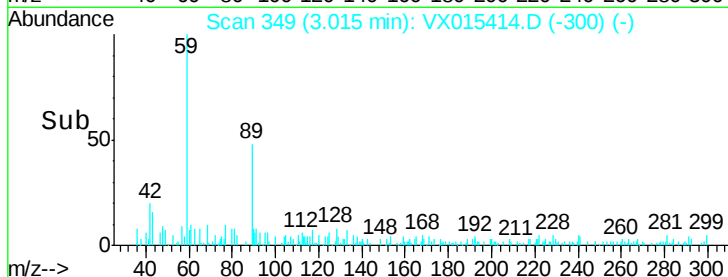
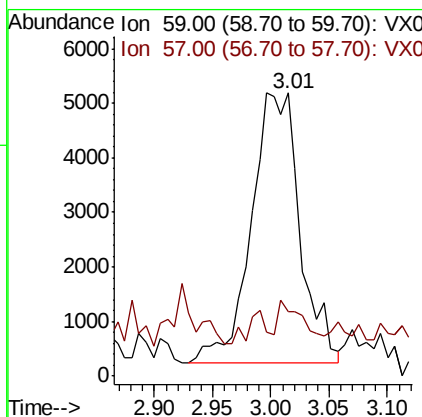
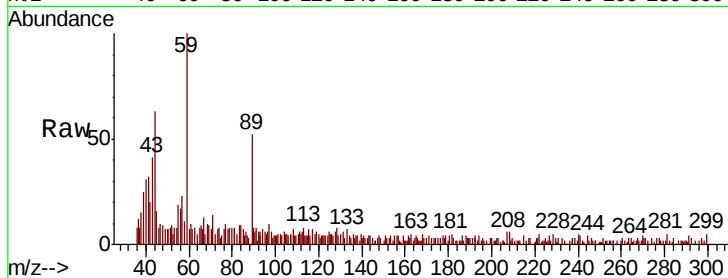




#11
Tert butyl alcohol
Concen: 3.859 ug/l
RT: 3.01 min Scan# 349
Delta R.T. 0.00 min
Lab File: VX015414.D
Acq: 28 Mar 2020 05:03

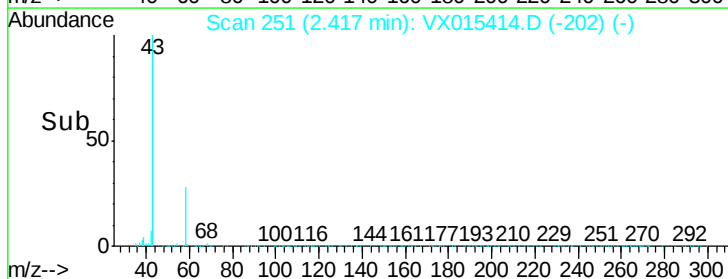
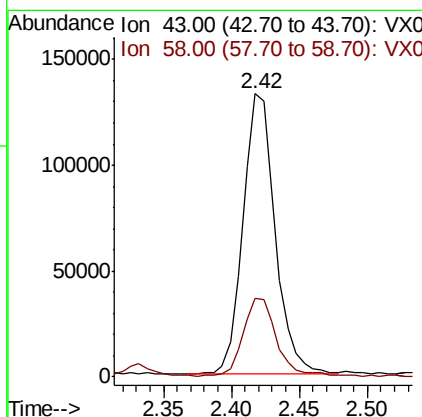
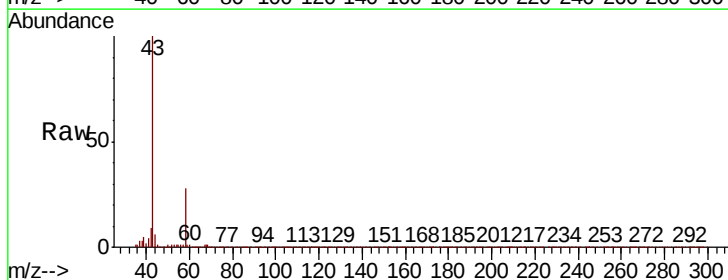
Instrument :
MSVOA_X
ClientSampleId :
SLUDGE-PIT

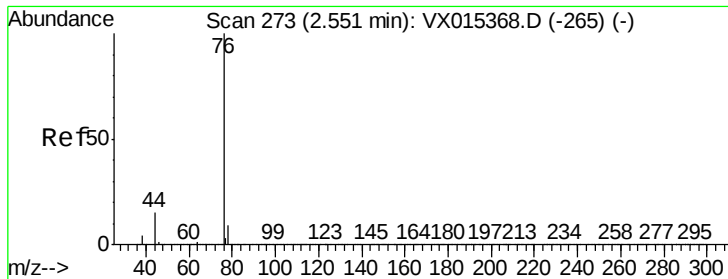
Tot Ion: 59 Resp: 14460
Ion Ratio Lower Upper
59 100
57 6.7 8.1 12.1#



#16
Acetone
Concen: 32.542 ug/l
RT: 2.42 min Scan# 251
Delta R.T. 0.00 min
Lab File: VX015414.D
Acq: 28 Mar 2020 05:03

Tgt Ion: 43 Resp: 218844
Ion Ratio Lower Upper
43 100
58 27.7 22.1 33.1





#17

Carbon Disulfide

Concen: 0.206 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

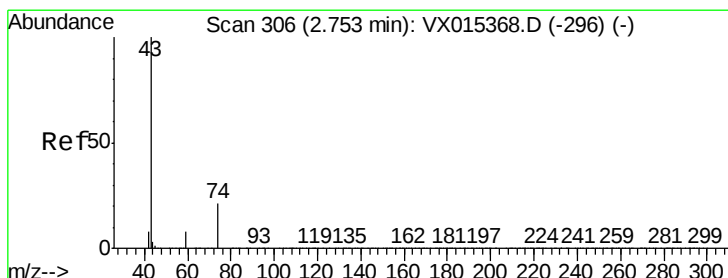
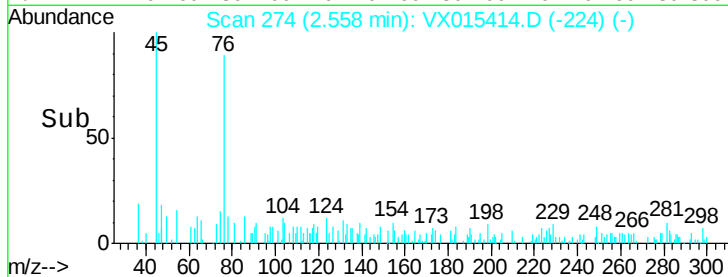
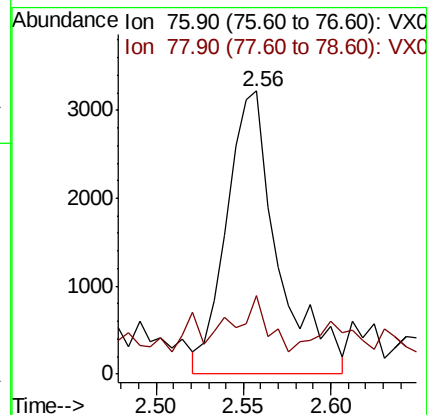
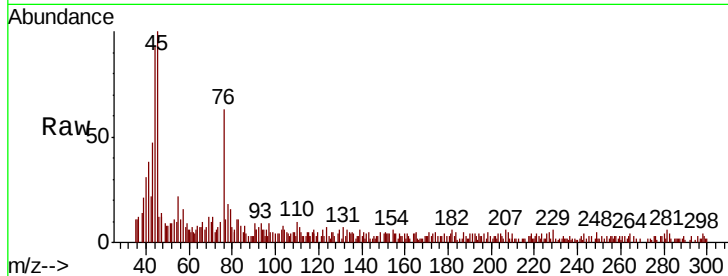
SLUDGE-PIT

Tot Ion: 76 Resp: 6595

Ion Ratio Lower Upper

76 100

78 14.2 7.1 10.7#



#18

Methyl Acetate

Concen: 0.986 ug/l

RT: 2.75 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX015414.D

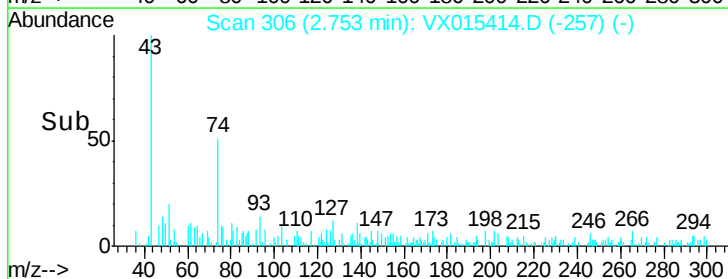
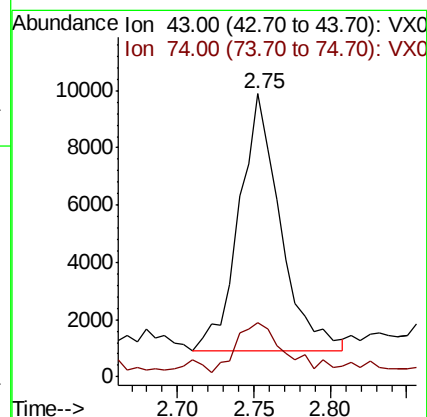
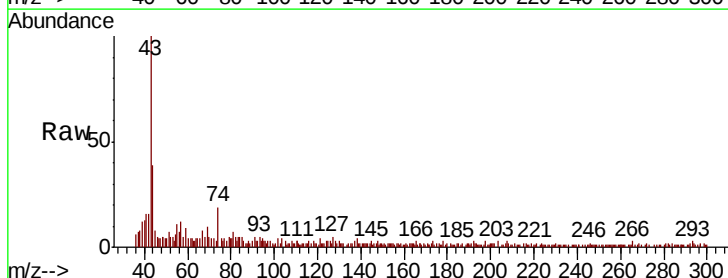
Acq: 28 Mar 2020 05:03

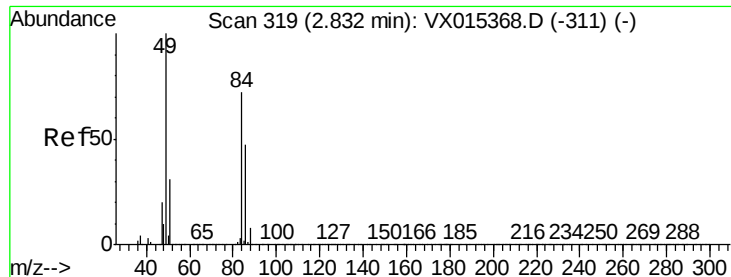
Tgt Ion: 43 Resp: 16929

Ion Ratio Lower Upper

43 100

74 23.3 16.5 24.7

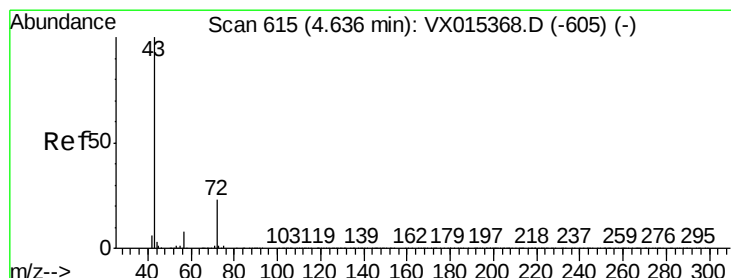
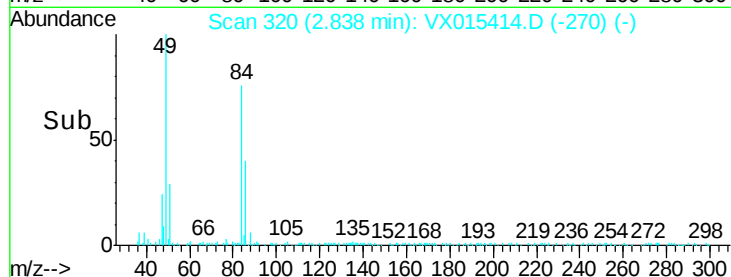
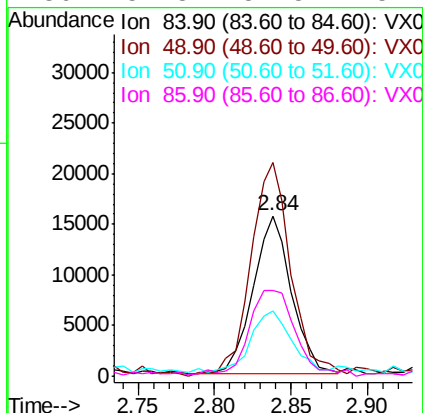
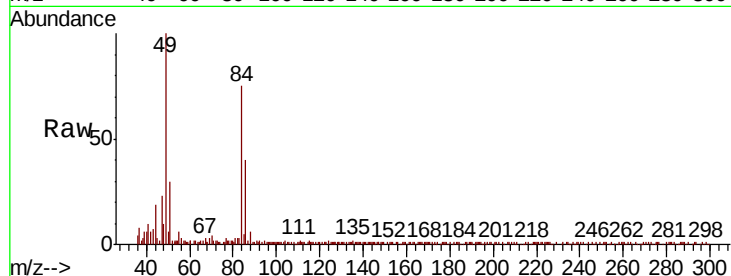




#20
Methvlene Chloride
Concen: 2.196 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015414.D
Acq: 28 Mar 2020 05:03

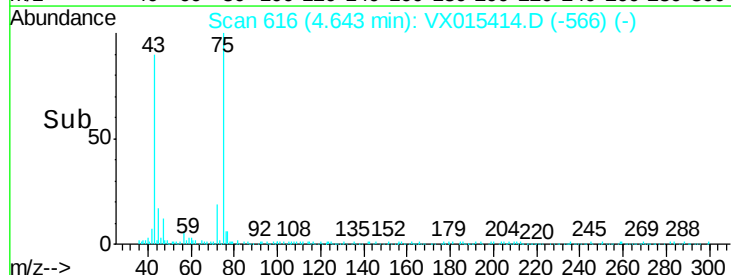
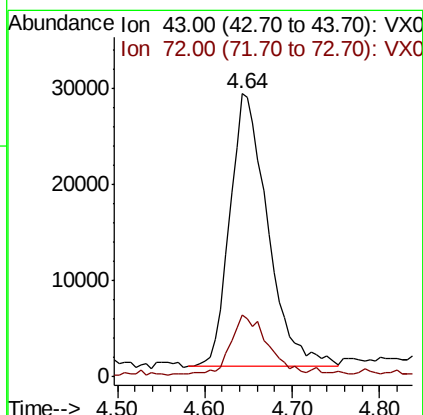
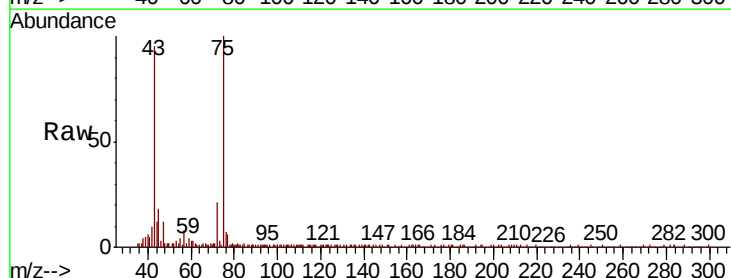
Instrument :
MSVOA_X
ClientSampleId :
SLUDGE-PIT

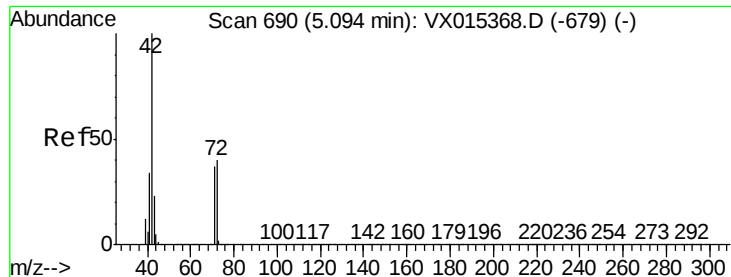
Tot Ion:	84	Resp:	27579
Ion	Ratio	Lower	Upper
84	100		
49	134.9	111.3	166.9
51	38.3	34.0	51.0
86	52.8	52.5	78.7



#25
2-Butanone
Concen: 7.933 ug/l
RT: 4.64 min Scan# 616
Delta R.T. 0.01 min
Lab File: VX015414.D
Acq: 28 Mar 2020 05:03

Tgt Ion:	43	Resp:	85800
Ion	Ratio	Lower	Upper
43	100		
72	21.4	19.0	28.4





#29

Tetrahydrofuran

Concen: 0.543 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.02 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampled :

SLUDGE-PIT

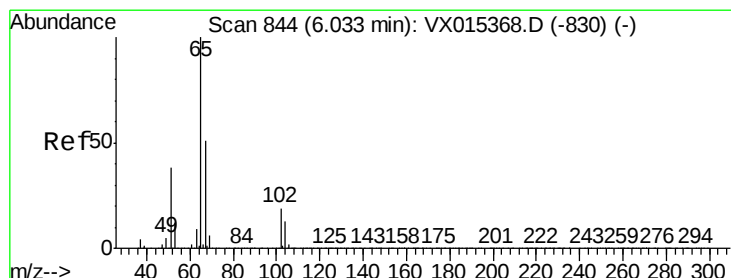
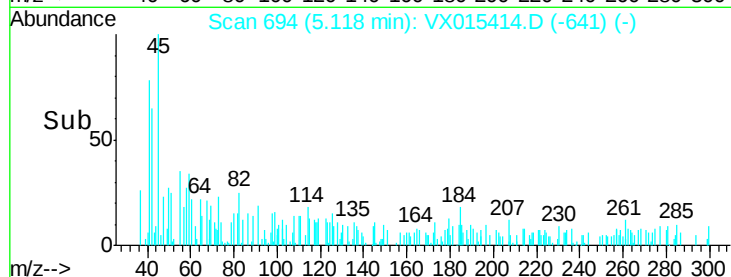
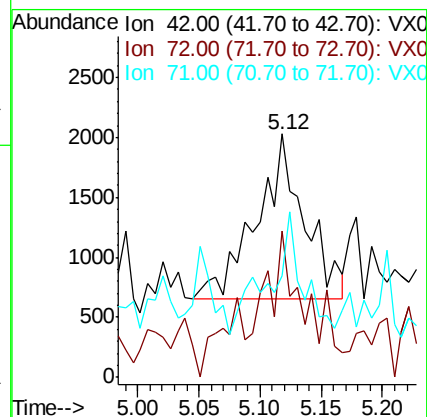
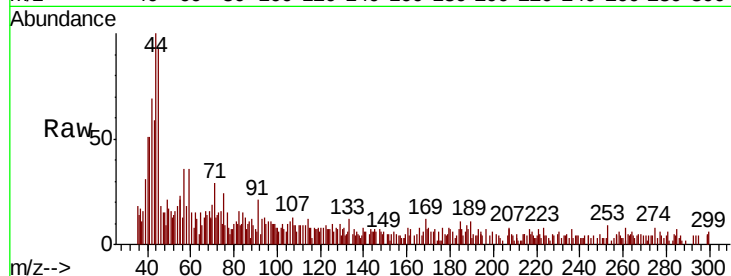
Tot Ion: 42 Resp: 3772

Ion Ratio Lower Upper

42 100

72 49.1 31.7 47.5#

71 26.0 29.6 44.4#



#33

1,2-Dichloroethane-d4

Concen: 48.813 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015414.D

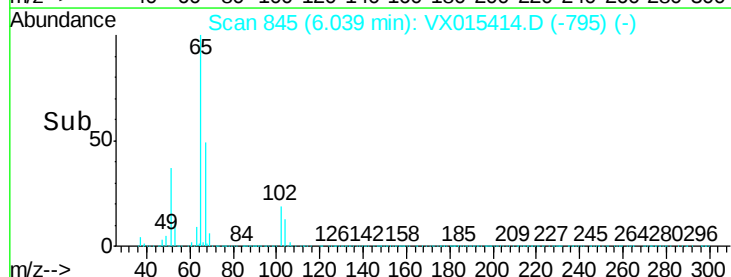
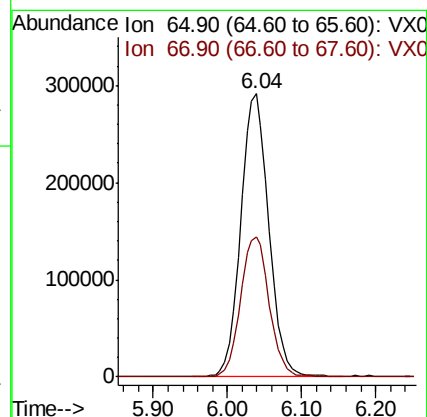
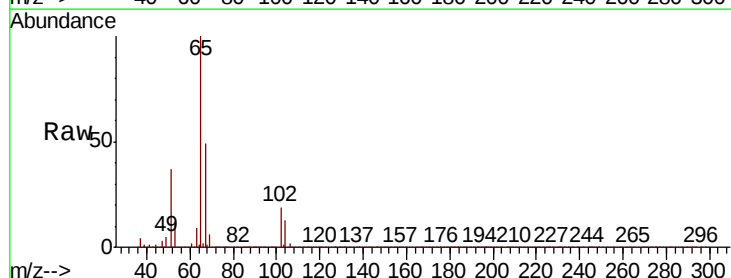
Acq: 28 Mar 2020 05:03

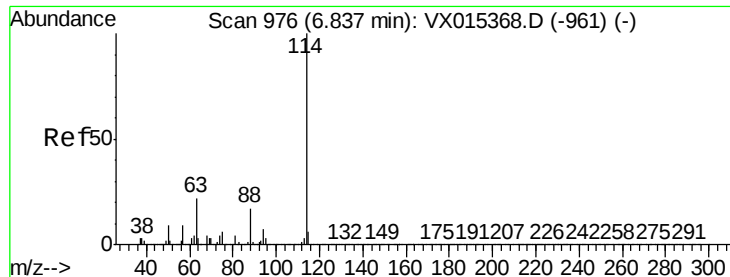
Tgt Ion: 65 Resp: 764078

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

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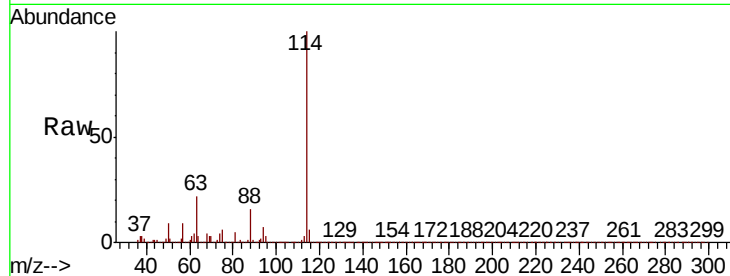
Tot Ion:114 Resp: 1859331

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.2

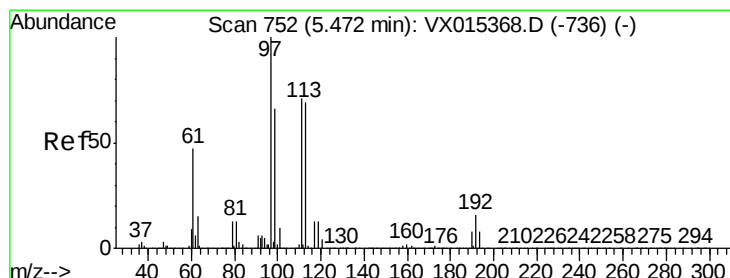
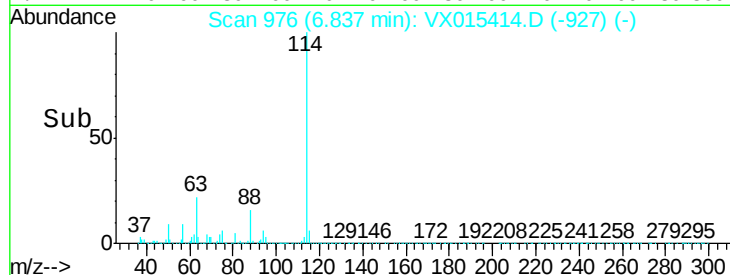
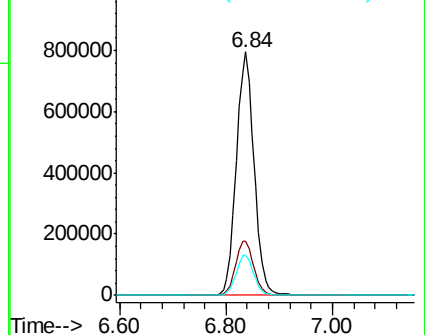
88 16.4 0.0 33.8



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: 49.648 ug/l

RT: 5.47 min Scan# 751

Delta R.T. -0.01 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

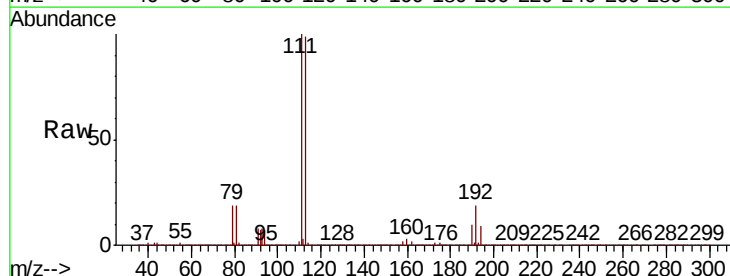
Tgt Ion:113 Resp: 590083

Ion Ratio Lower Upper

113 100

111 102.8 81.5 122.3

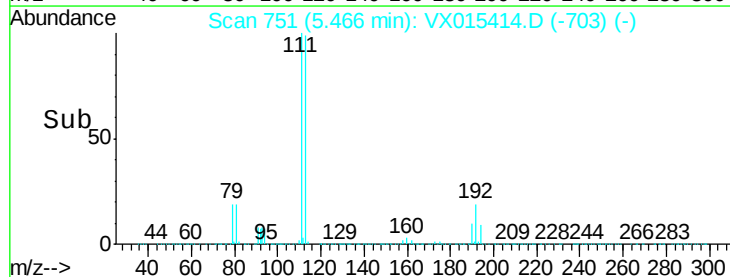
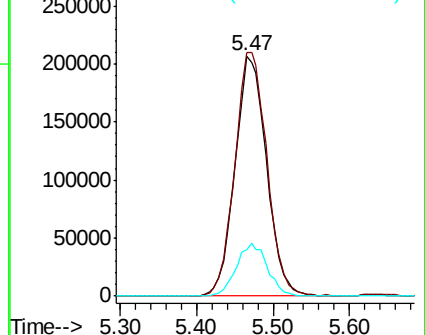
192 21.7 17.8 26.6

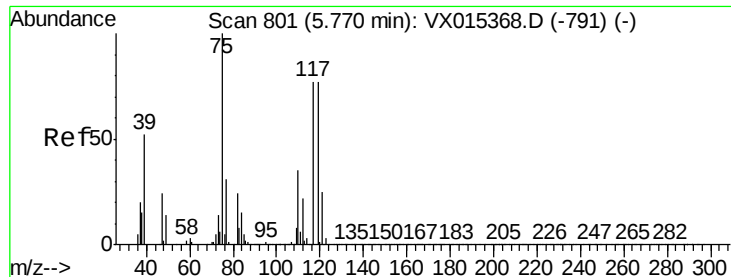


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.047 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.14 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

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ClientSampleId :

SLUDGE-PIT

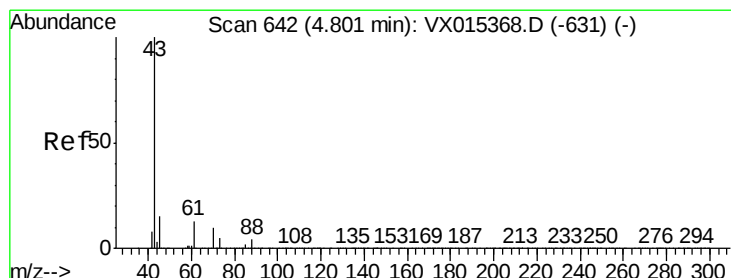
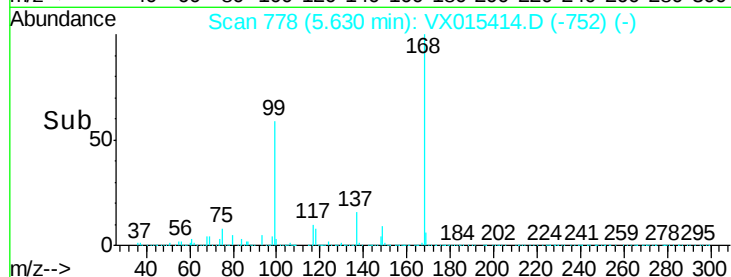
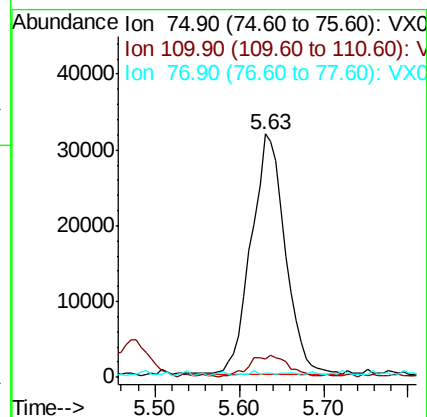
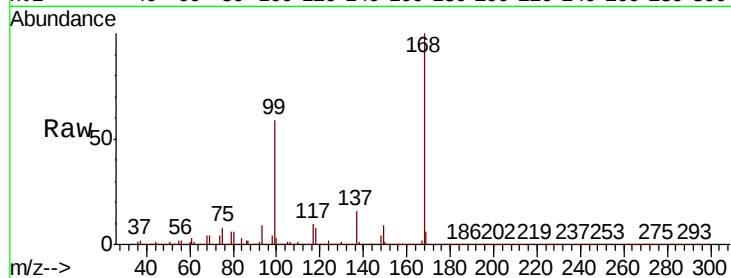
Tot Ion: 75 Resp: 86463

Ion Ratio Lower Upper

75 100

110 11.0 17.1 51.3#

77 1.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 3.849 ug/l

RT: 4.64 min Scan# 616

Delta R.T. -0.16 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

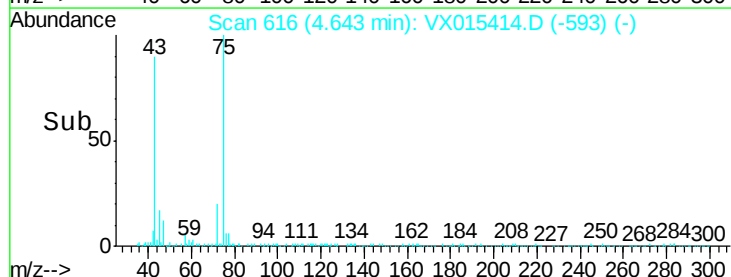
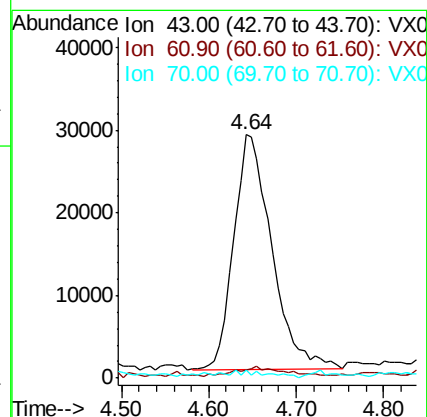
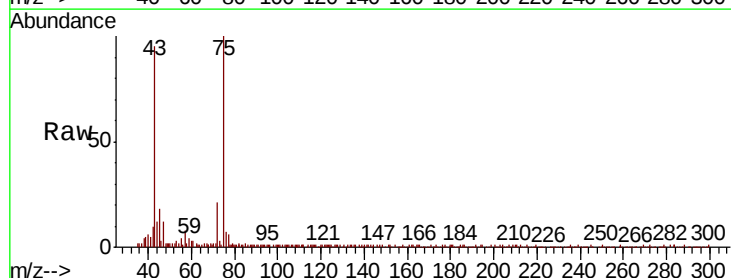
Tgt Ion: 43 Resp: 85862

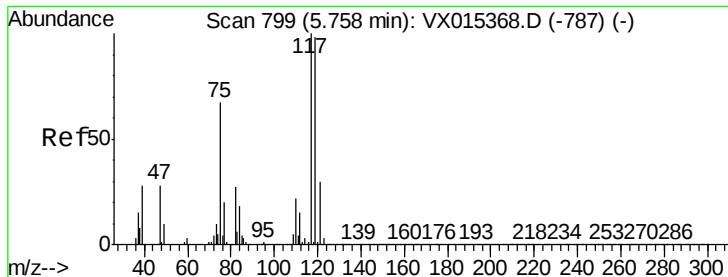
Ion Ratio Lower Upper

43 100

61 5.5 9.9 14.9#

70 0.0 8.1 12.1#





#38

Carbon Tetrachloride

Concen: 5.839 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

SLUDGE-PIT

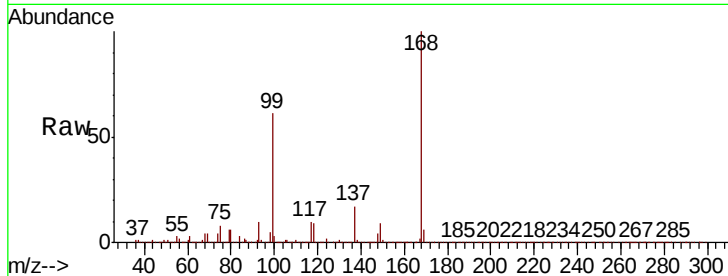
Tot Ion:117 Resp: 108343

Ion Ratio Lower Upper

117 100

119 4.4 78.0 117.0#

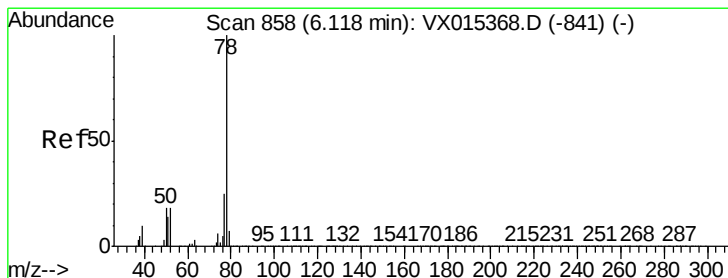
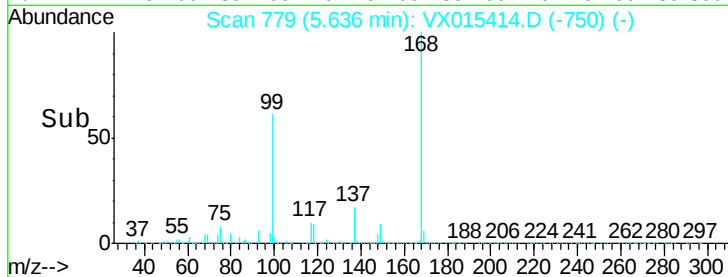
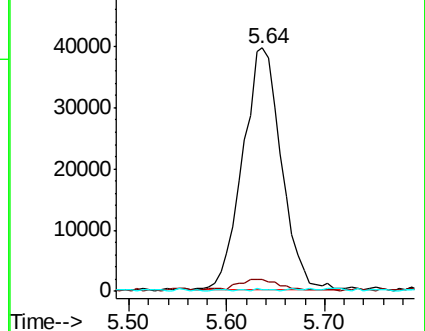
121 0.3 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.240 ug/l

RT: 6.12 min Scan# 859

Delta R.T. 0.01 min

Lab File: VX015414.D

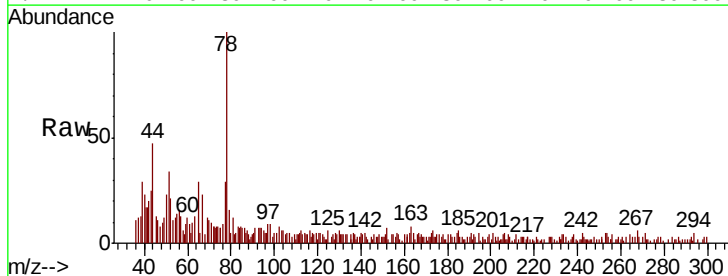
Acq: 28 Mar 2020 05:03

Tgt Ion: 78 Resp: 12030

Ion Ratio Lower Upper

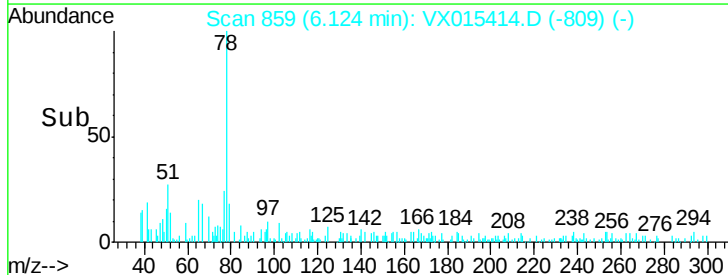
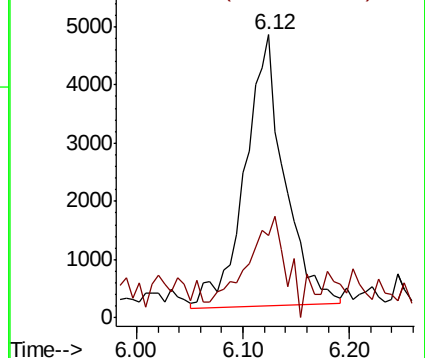
78 100

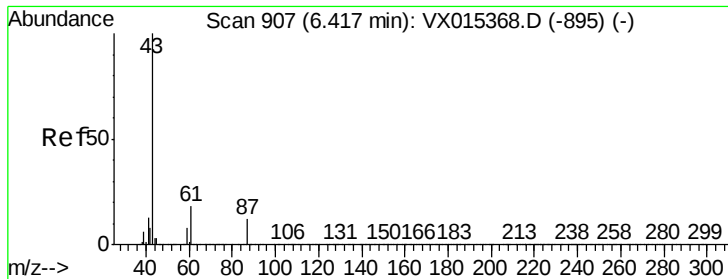
77 24.4 19.8 29.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



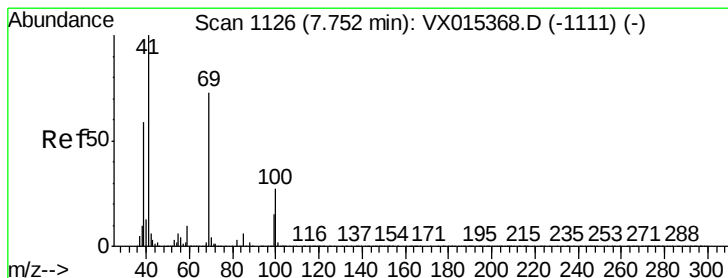
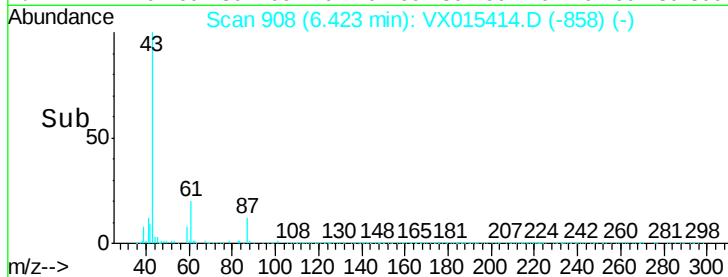
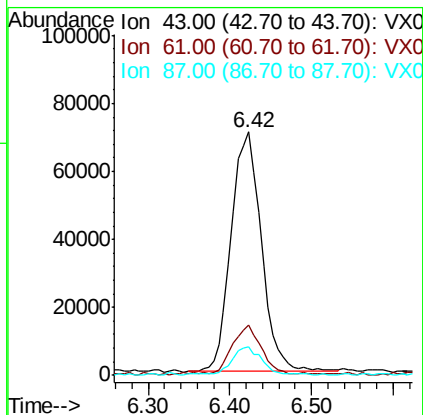
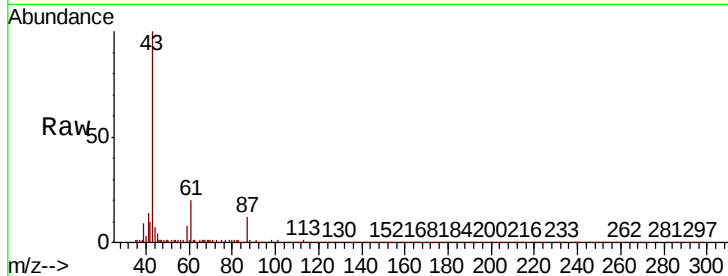


#43

Isopropyl Acetate
 Concen: 4.828 ug/l
 RT: 6.42 min Scan# 908
 Delta R.T. 0.01 min
 Lab File: VX015414.D
 Acq: 28 Mar 2020 05:03

Instrument :
 MSVOA_X
 ClientSampleId :
 SLUDGE-PIT

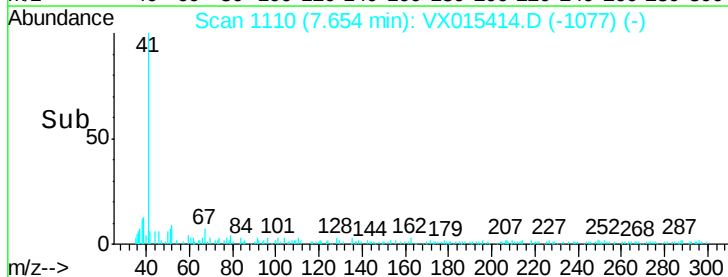
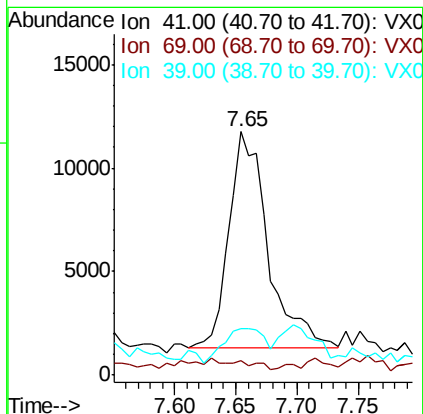
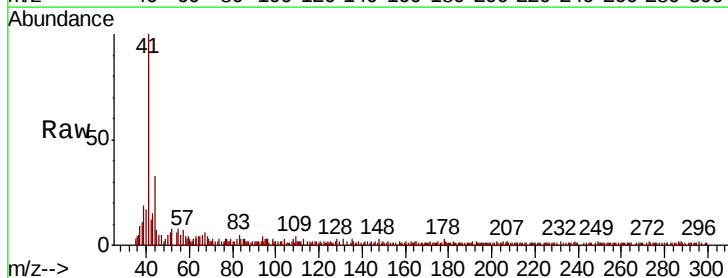
Tot Ion	43	Resp	181814
Ion Ratio	Lower	Upper	
43	100		
61	18.5	14.8	22.2
87	11.1	9.4	14.0

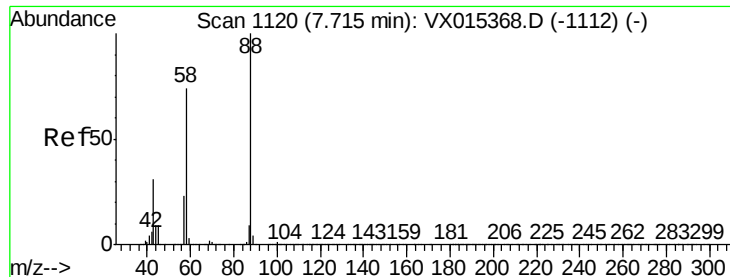


#48

Methyl methacrylate
 Concen: 1.240 ug/l
 RT: 7.65 min Scan# 1110
 Delta R.T. -0.10 min
 Lab File: VX015414.D
 Acq: 28 Mar 2020 05:03

Tgt Ion	41	Resp	23315
Ion Ratio	Lower	Upper	
41	100		
69	0.0	56.7	85.1#
39	17.1	46.5	69.7#





#49

1,4-Dioxane

Concen: 0.809 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

SLUDGE-PIT

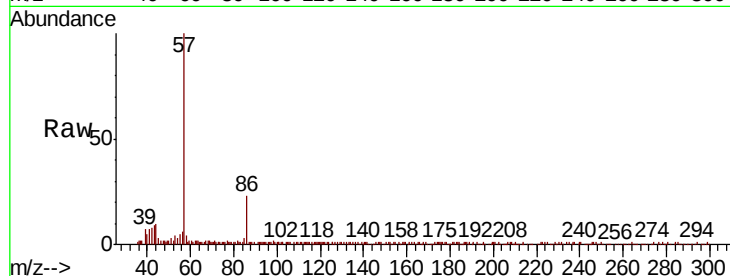
Tot Ion: 88 Resp: 284

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

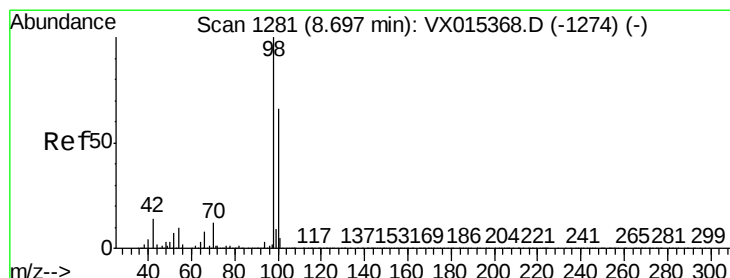
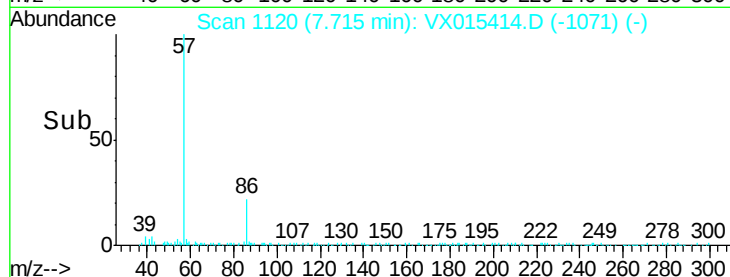
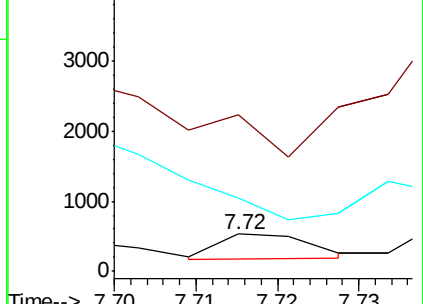
58 1169.4 60.6 90.8#



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



#50

Toluene-d8

Concen: 51.634 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015414.D

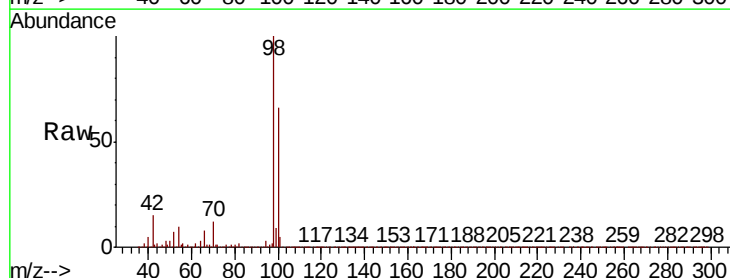
Acq: 28 Mar 2020 05:03

Tgt Ion: 98 Resp: 2259454

Ion Ratio Lower Upper

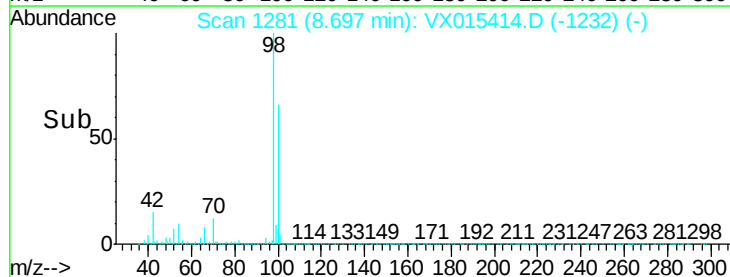
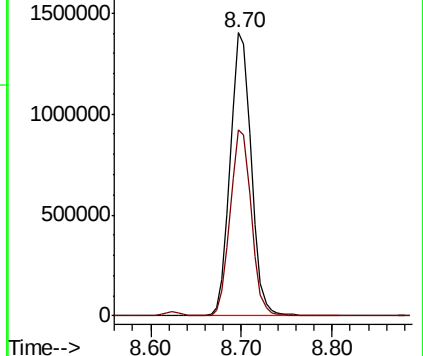
98 100

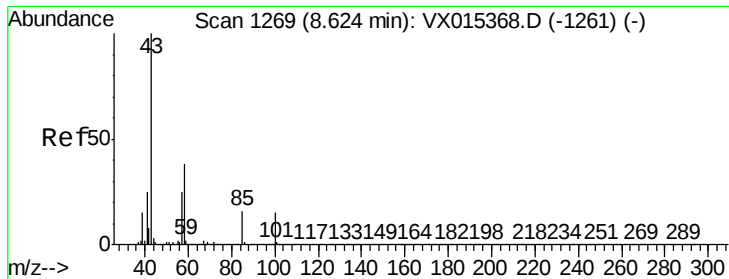
100 66.2 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

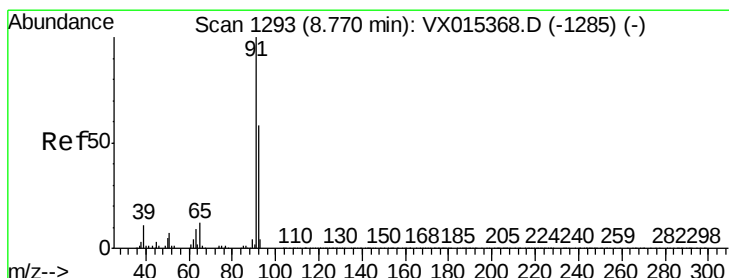
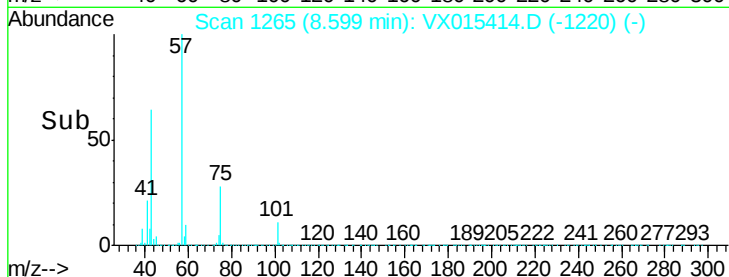
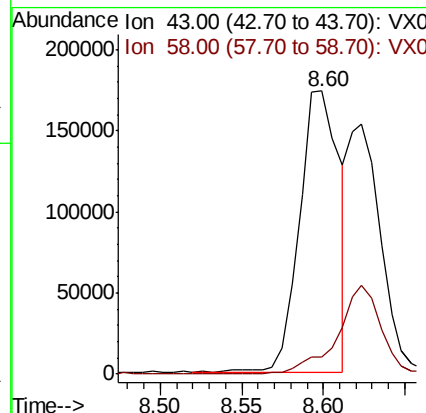
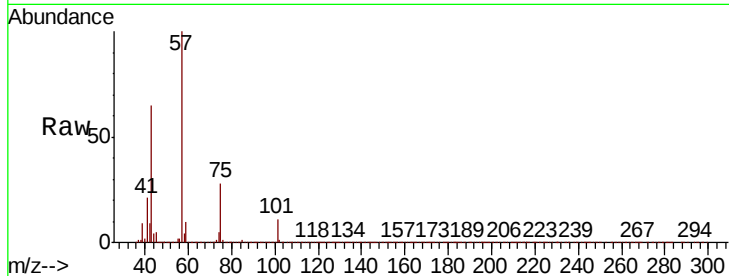




#51
4-Methyl-2-Pentanone
Concen: 13.857 ug/l
RT: 8.60 min Scan# 1265
Delta R.T. -0.02 min
Lab File: VX015414.D
Acq: 28 Mar 2020 05:03

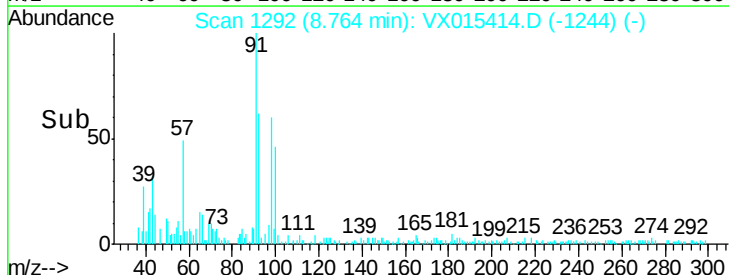
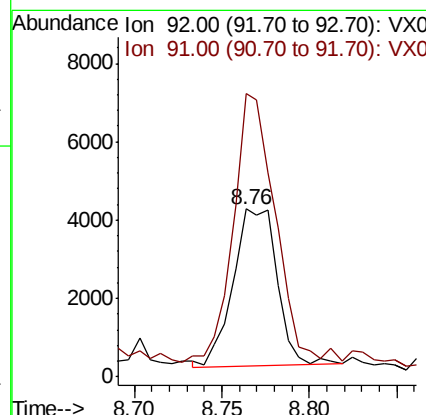
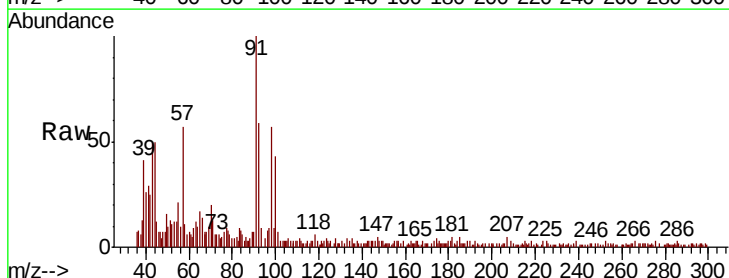
Instrument :
MSVOA_X
ClientSampleId :
SLUDGE-PIT

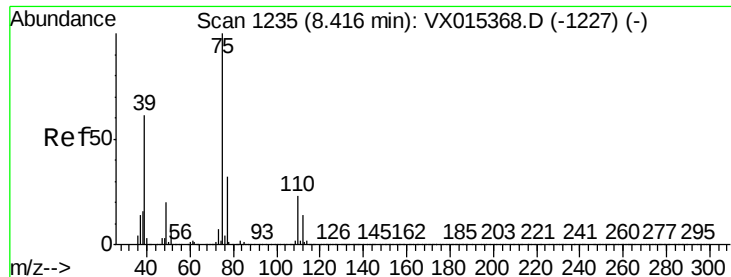
Tot Ion: 43 Resp: 295724
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#



#52
Toluene
Concen: 0.228 ug/l
RT: 8.76 min Scan# 1292
Delta R.T. -0.01 min
Lab File: VX015414.D
Acq: 28 Mar 2020 05:03

Tgt Ion: 92 Resp: 7044
Ion Ratio Lower Upper
92 100
91 161.3 136.6 205.0





#54

cis-1,3-Dichloropropene

Concen: 5.049 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

SLUDGE-PIT

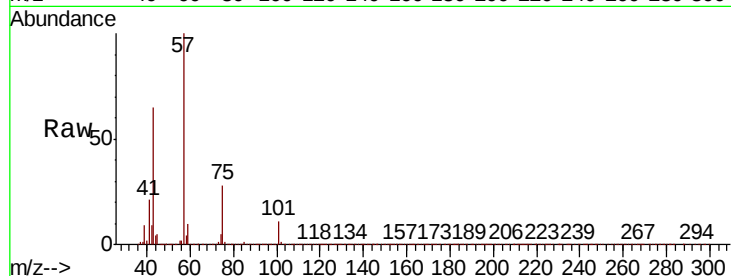
Tot Ion: 75 Resp: 115745

Ion Ratio Lower Upper

75 100

77 1.0 25.8 38.6#

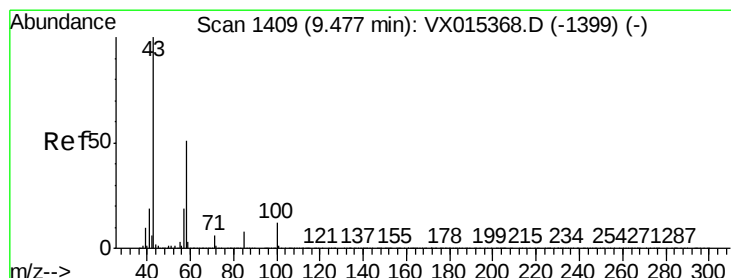
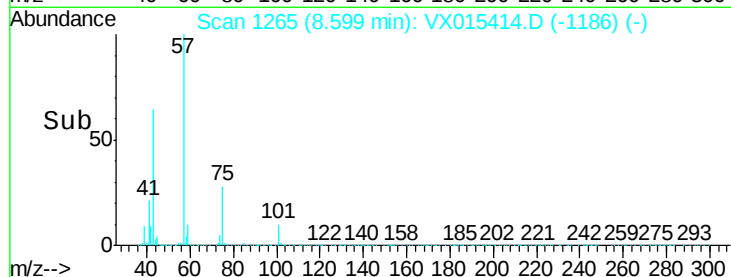
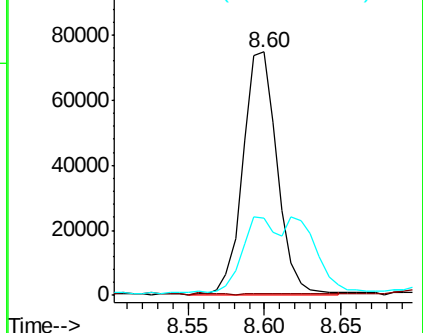
39 30.8 49.0 73.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 11.090 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015414.D

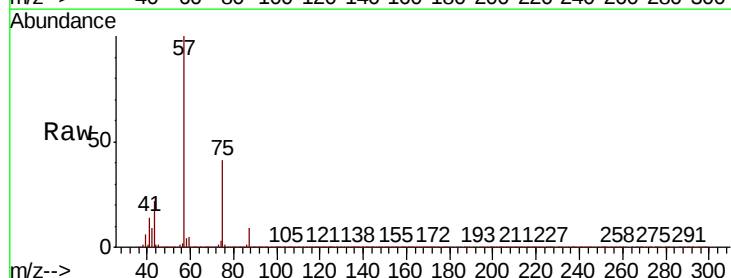
Acq: 28 Mar 2020 05:03

Tgt Ion: 43 Resp: 178683

Ion Ratio Lower Upper

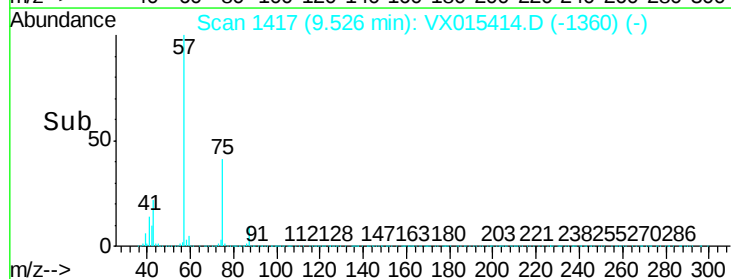
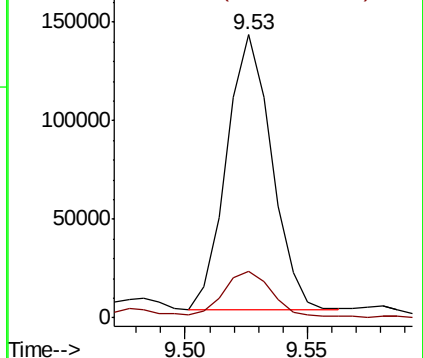
43 100

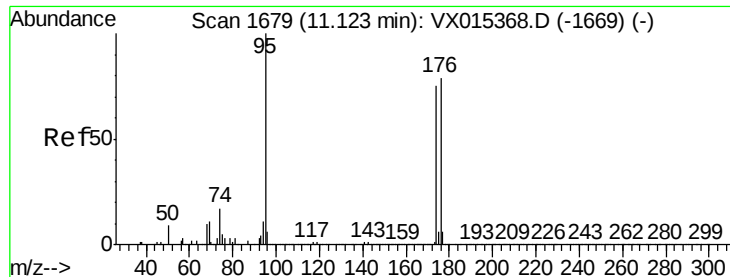
58 17.8 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.764 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

SLUDGE-PIT

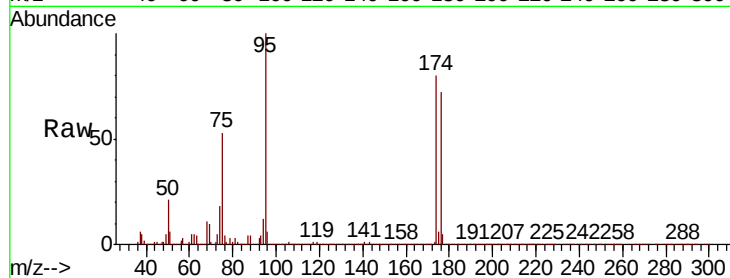
Tot Ion: 95 Resp: 956116

Ion Ratio Lower Upper

95 100

174 78.8 0.0 158.6

176 74.6 0.0 159.0

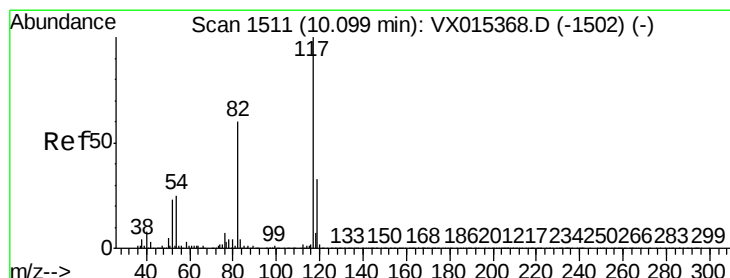
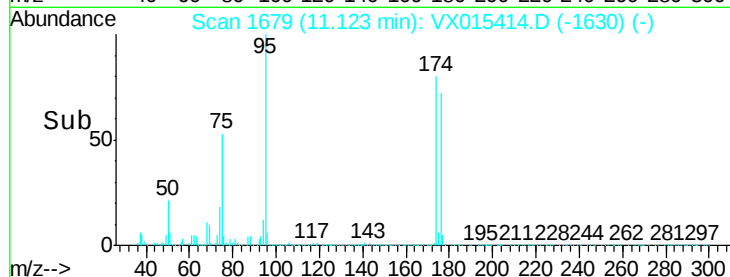


Abundance Ion 94.90 (94.60 to 95.60): VX015414.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX015414.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX015414.D (-1630) (-)

Time--> 11.00 11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

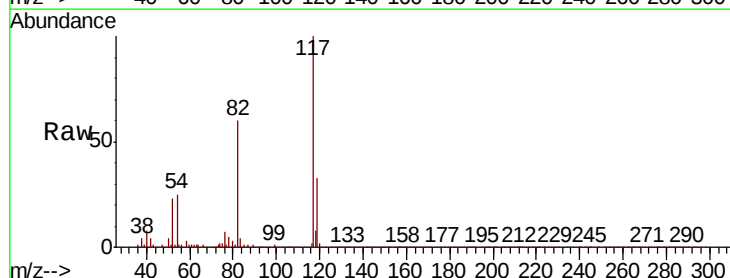
Tgt Ion: 117 Resp: 1752383

Ion Ratio Lower Upper

117 100

82 60.0 47.8 71.8

119 32.6 26.8 40.2

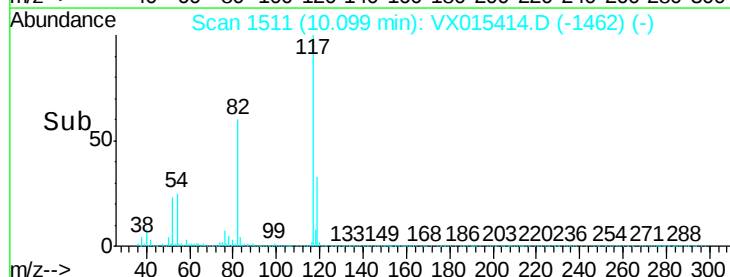


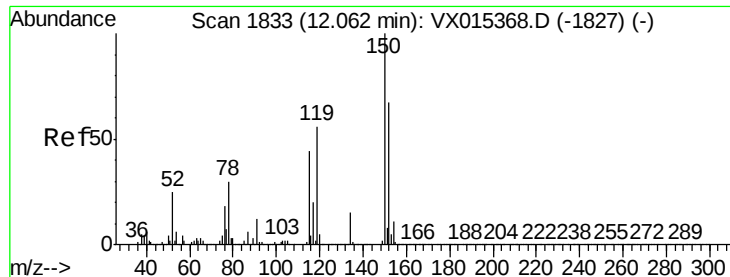
Abundance Ion 116.90 (116.60 to 117.60): VX015414.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015414.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015414.D (-1462) (-)

Time--> 10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

SLUDGE-PIT

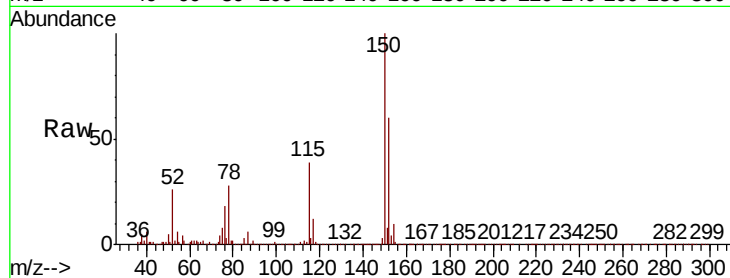
Tot Ion:152 Resp: 938616

Ion Ratio Lower Upper

152 100

115 59.5 39.0 116.9

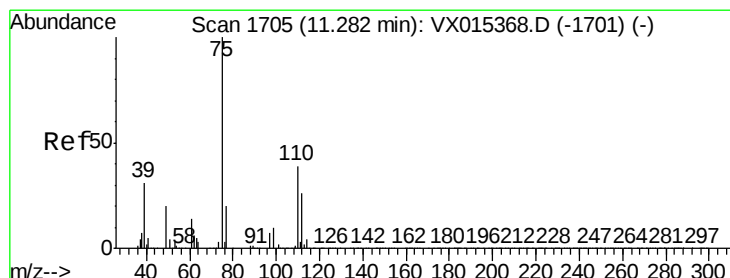
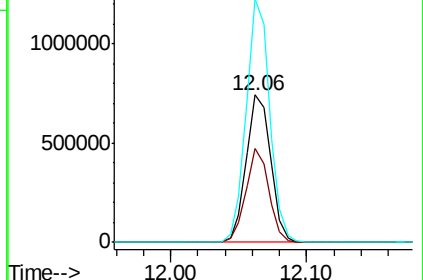
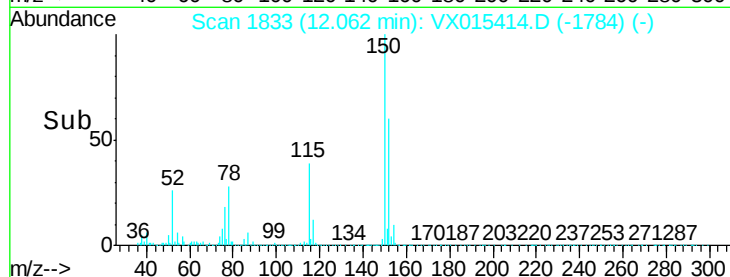
150 158.2 0.0 340.8



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: 26.065 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015414.D

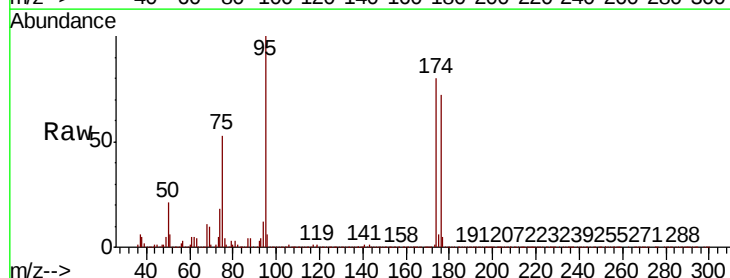
Acq: 28 Mar 2020 05:03

Tgt Ion: 75 Resp: 503095

Ion Ratio Lower Upper

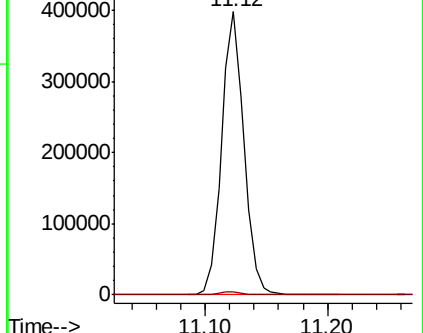
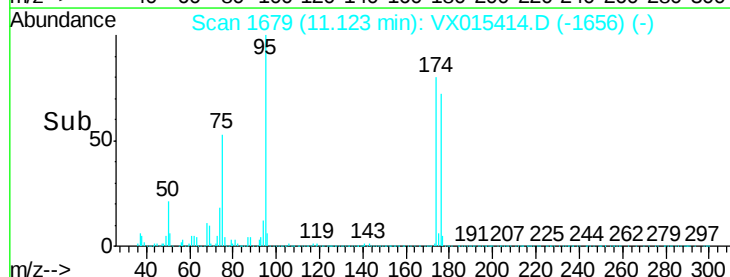
75 100

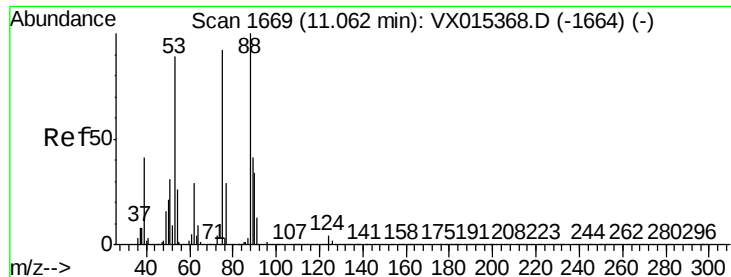
77 1.1 21.2 63.6#



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: 62.541 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015414.D

Acq: 28 Mar 2020 05:03

Instrument :

MSVOA_X

ClientSampleId :

SLUDGE-PIT

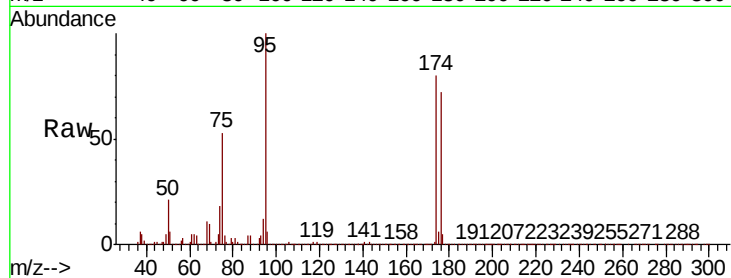
Tot Ion: 75 Resp: 503095

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#



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

