

Data File : VV012933.D
Acq On : 23 Sep 2019 12:39
Operator : SY/MD
Sample : VSTDICV025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB61

Quant Time: Sep 24 07:37:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 23 13:08:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	776023	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	769525	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	417850	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	276168	22.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.76%
7) Chloroethane-d5	1.58	69	225309	23.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.56%
10) 1,1-Dichloroethene-d2	2.13	63	458457	22.90	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.60%
20) 2-Butanone-d5	3.94	46	213549	51.37	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.74%
24) Chloroform-d	4.40	84	507077	23.79	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.16%
26) 1,2-Dichloroethane-d4	5.08	65	297942	24.04	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.16%
29) Benzene-d6	5.09	84	1044222	24.30	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.20%
33) 1,2-Dichloropropane-d6	6.11	67	326332	24.23	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.92%
37) Toluene-d8	7.36	98	973724	24.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.88%
38) trans-1,3-Dichloropropene-	7.66	79	143191	25.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.44%
39) 2-Hexanone-d5	8.13	63	147337	54.37	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.74%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	318133	24.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.48%
61) 1,2-Dichlorobenzene-d4	11.67	152	393755	24.25	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	239704	28.048 ug/L	99
3) Chloromethane	1.25	50	292010	26.164 ug/L	98
5) Vinyl chloride	1.32	62	283021	25.685 ug/L	99
6) Bromomethane	1.54	94	184962	26.890 ug/L	100
8) Chloroethane	1.60	64	174409	25.758 ug/L	100
9) Trichlorofluoromethane	1.77	101	375293	25.182 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	233846	24.550 ug/L	99
12) 1,1-Dichloroethene	2.14	96	216121	24.637 ug/L	96
13) Acetone	2.21	43	219212	49.609 ug/L	100
14) Carbon disulfide	2.32	76	709673	25.326 ug/L	100
15) Methyl Acetate	2.46	43	186432	27.202 ug/L	100
16) Methylene chloride	2.53	84	294112	25.356 ug/L	99
17) Methyl tert-butyl Ether	2.80	73	716794	27.848 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	266281	25.645 ug/L	99
19) 1,1-Dichloroethane	3.23	63	491968	25.963 ug/L	99
21) 2-Butanone	4.03	43	273857	53.254 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	302629	26.630 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Mon Sep 23 13:08:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	149513	26.636	ug/L	97
25) Chloroform	4.42	83	506594	25.499	ug/L	100
27) 1,2-Dichloroethane	5.17	62	375932	26.771	ug/L	99
30) Cyclohexane	4.72	56	435762	26.395	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	386993	25.410	ug/L	99
32) Carbon tetrachloride	4.87	117	349461	25.305	ug/L	100
34) Benzene	5.14	78	1136080	26.522	ug/L	100
35) Trichloroethene	5.96	95	302250	25.330	ug/L	100
36) Methylcyclohexane	6.17	83	479502	26.176	ug/L	99
40) 1,2-Dichloropropane	6.22	63	298323	26.781	ug/L	100
41) Bromodichloromethane	6.55	83	384344	26.938	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	459424	28.069	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	531606	58.087	ug/L	99
44) Toluene	7.43	91	1226621	27.151	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	379398	27.541	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	251690	26.615	ug/L	98
47) Tetrachloroethene	8.02	164	244979	25.260	ug/L	99
49) 2-Hexanone	8.18	43	396656	57.498	ug/L	99
50) Dibromochloromethane	8.29	129	289247	26.612	ug/L	99
51) 1,2-Dibromoethane	8.39	107	254798	27.495	ug/L	98
52) Chlorobenzene	8.92	112	815652	26.163	ug/L	99
53) Ethylbenzene	9.05	91	1347575	27.091	ug/L	99
54) m,p-Xylene	9.18	106	521105	27.557	ug/L	100
55) o-xylene	9.59	106	505696	28.066	ug/L	100
56) Styrene	9.60	104	900940	28.419	ug/L	100
57) Isopropylbenzene	9.97	105	1307067	27.603	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	315841	27.000	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	260295	26.959	ug/L	99
62) Bromoform	9.77	173	190055	26.804	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	682416	26.532	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	710830	26.333	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	650855	26.530	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	57933	26.635	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	530403	26.363	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	483765	27.497	ug/L	99
69) Naphthalene	13.55	128	1092398	30.871	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	479815	28.366	ug/L	99

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

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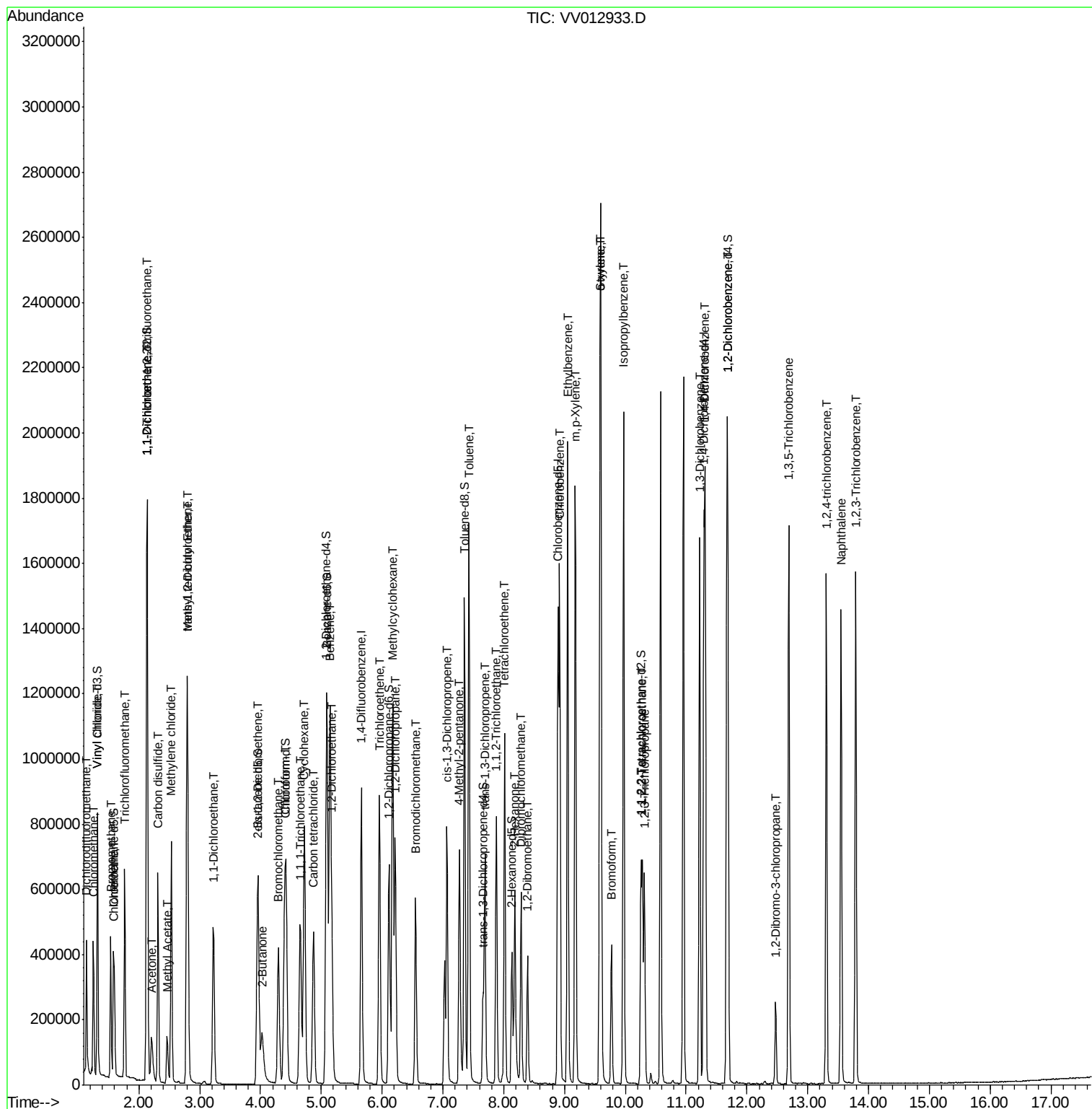
Quant Time: Sep 24 07:37:11 2019

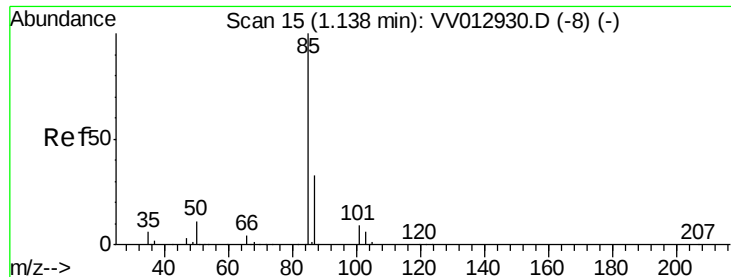
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM092319S.M

Quant Title : VOC Analysis

QLast Update : Mon Sep 23 13:08:37 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 28.048 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

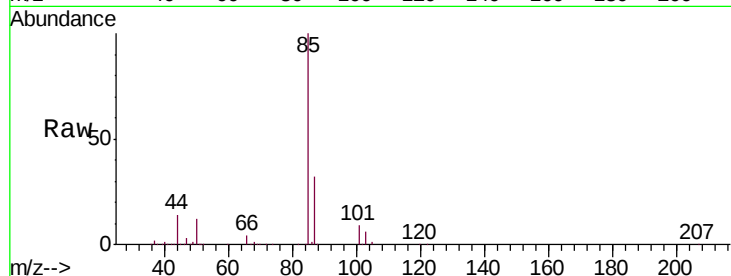
BFB61

Tgt Ion: 85 Resp: 239704

Ion Ratio Lower Upper

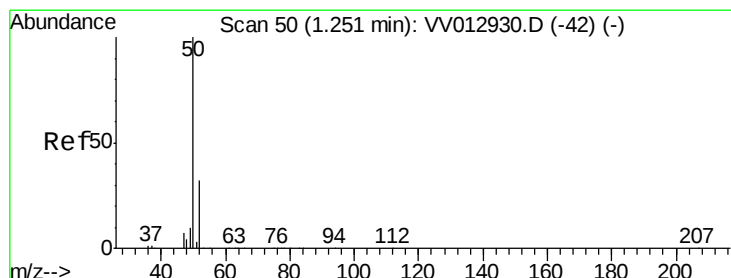
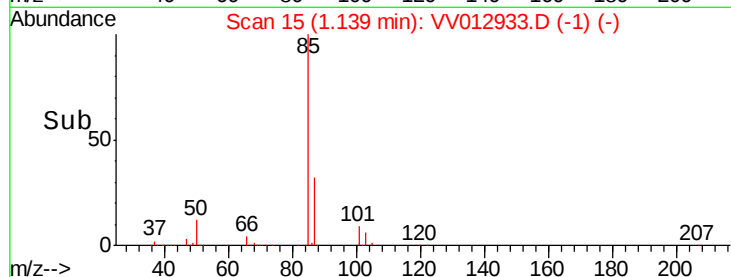
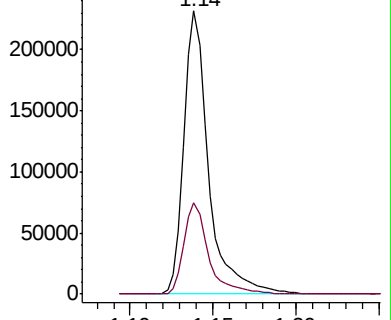
85 100

87 32.6 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV012933.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012933.D (-8) (-)



#3

Chloromethane

Concen: 26.164 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012933.D

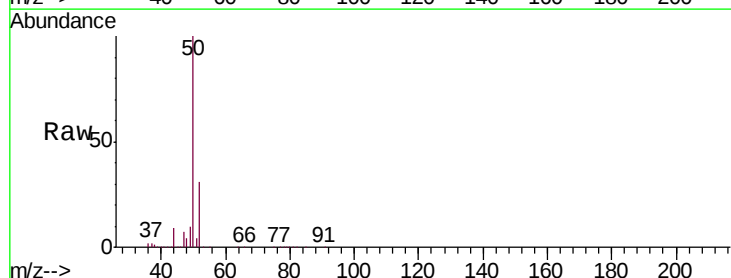
Acq: 23 Sep 2019 12:39

Tgt Ion: 50 Resp: 292010

Ion Ratio Lower Upper

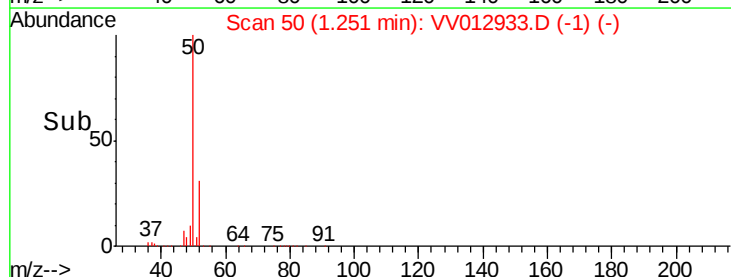
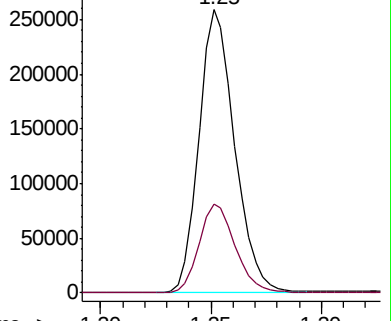
50 100

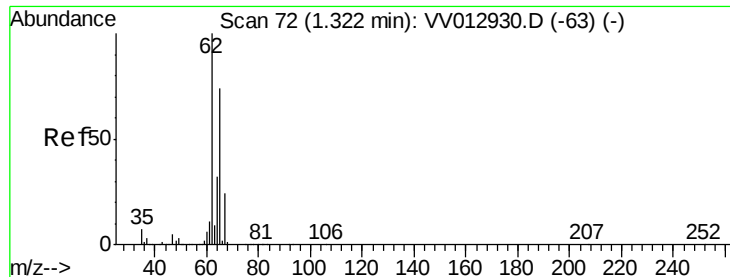
52 31.4 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV012933.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV012933.D (-42) (-)





#5

Vinyl chloride

Concen: 25.685 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampled :

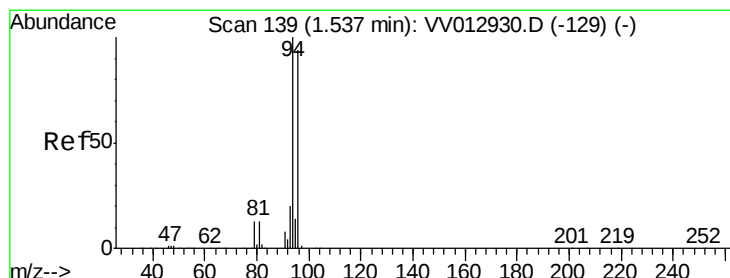
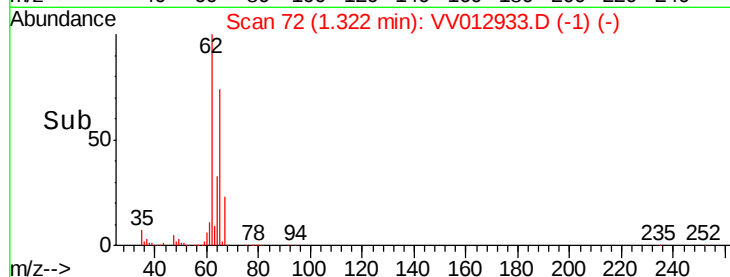
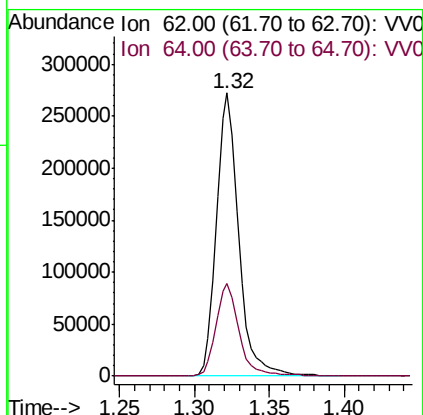
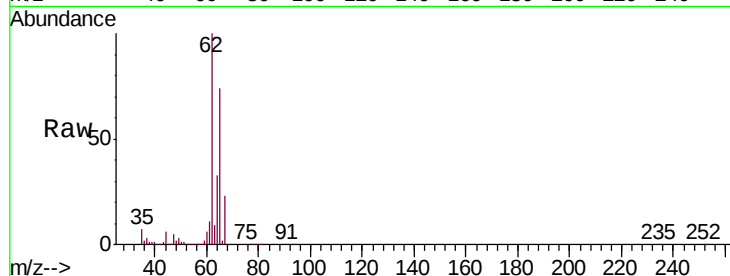
BFB61

Tgt Ion: 62 Resp: 283021

Ion Ratio Lower Upper

62 100

64 32.8 22.7 42.1



#6

Bromomethane

Concen: 26.890 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012933.D

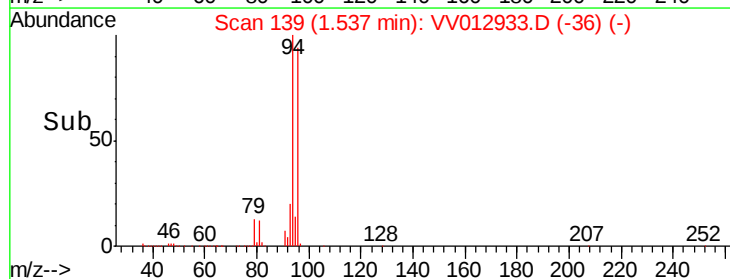
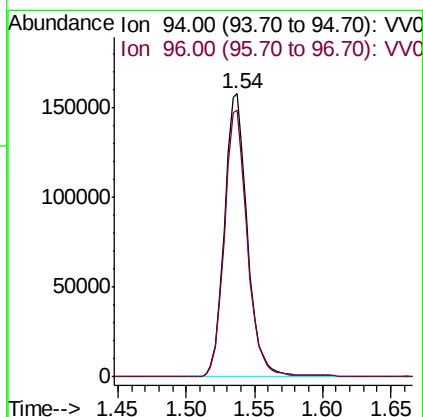
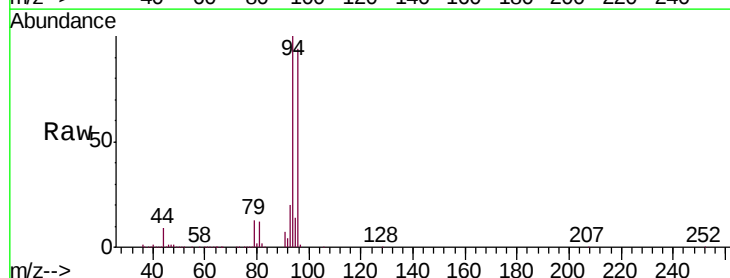
Acq: 23 Sep 2019 12:39

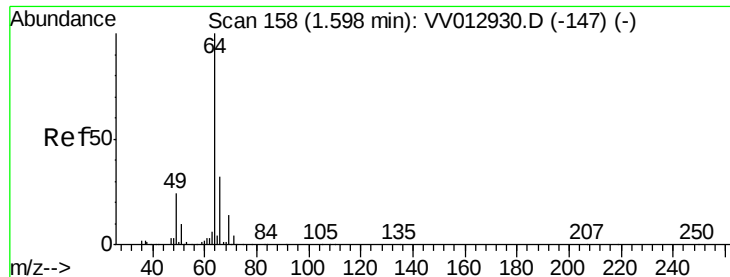
Tgt Ion: 94 Resp: 184962

Ion Ratio Lower Upper

94 100

96 93.9 9.4 177.8





#8

Chloroethane

Concen: 25.758 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

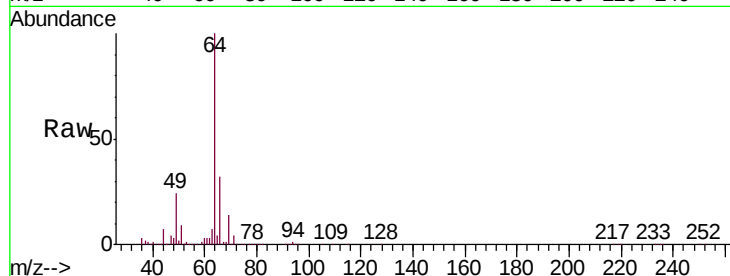
BFB61

Tgt Ion: 64 Resp: 174409

Ion Ratio Lower Upper

64 100

66 31.9 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV012933.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV012933.D (-147) (-)

1.60

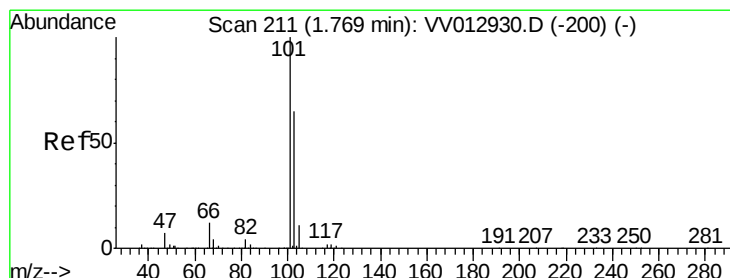
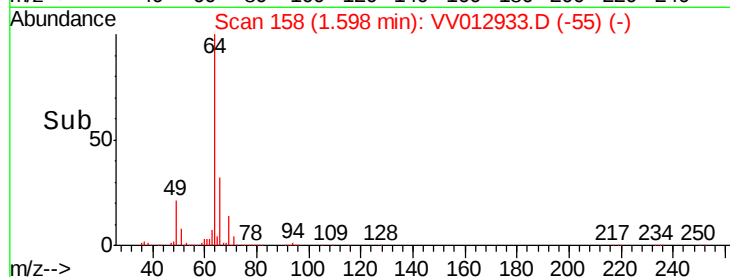
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 25.182 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012933.D

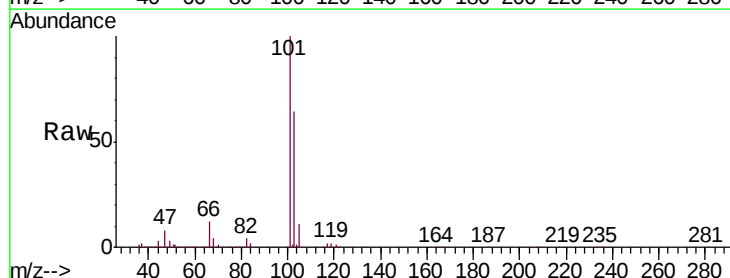
Acq: 23 Sep 2019 12:39

Tgt Ion: 101 Resp: 375293

Ion Ratio Lower Upper

101 100

103 63.6 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV012933.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012933.D (-200) (-)

1.77

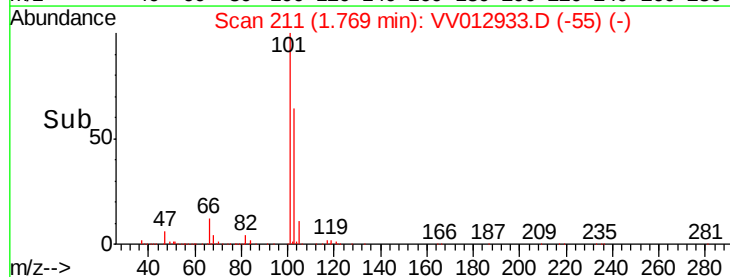
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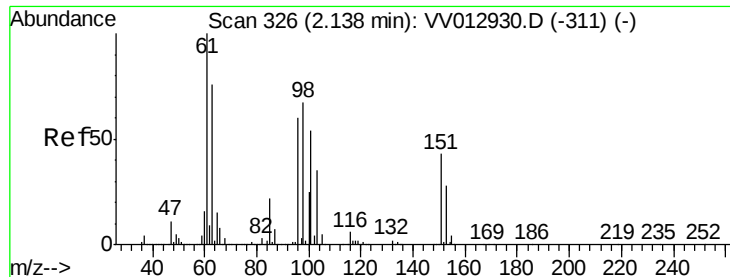
200000

100000

0

Time-->





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 24.550 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

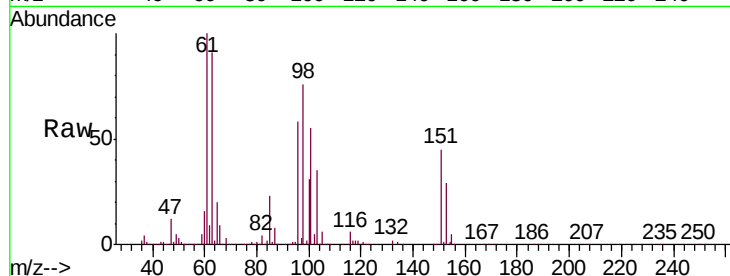
Tgt Ion: 101 Resp: 233846

Ion Ratio Lower Upper

101 100

85 41.2 32.6 49.0

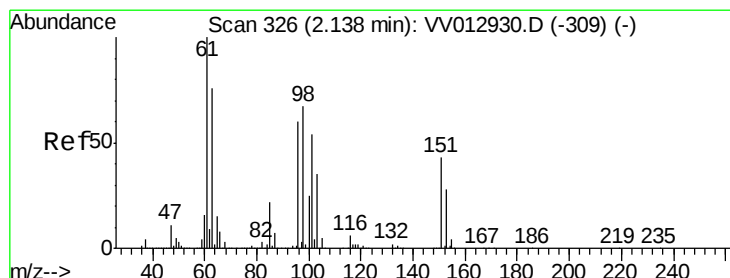
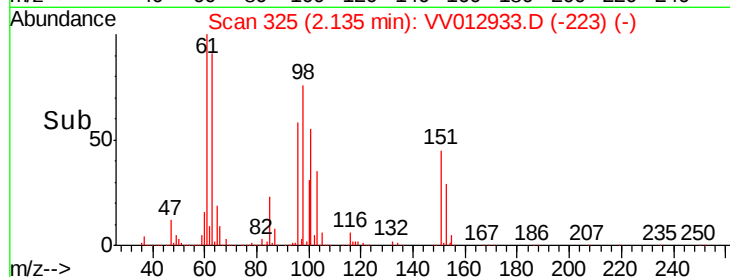
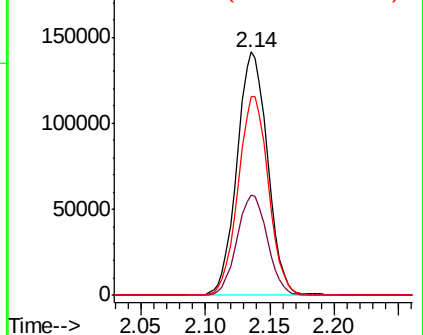
151 81.0 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 24.637 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

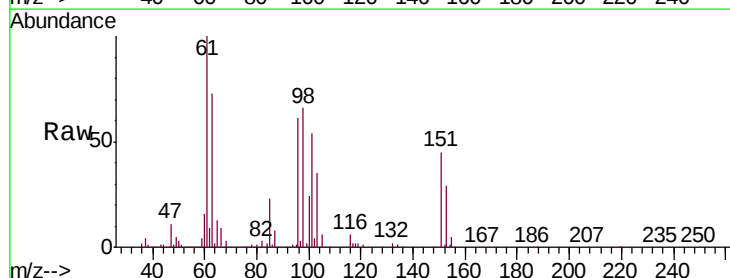
Tgt Ion: 96 Resp: 216121

Ion Ratio Lower Upper

96 100

61 164.9 117.2 217.8

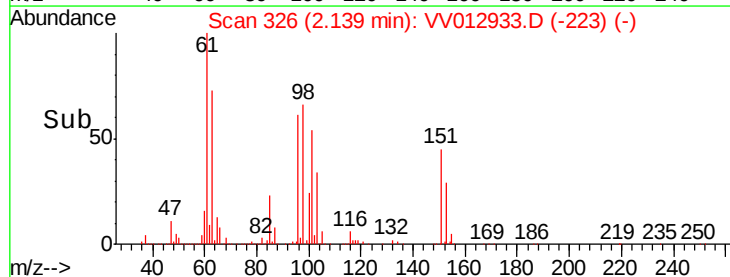
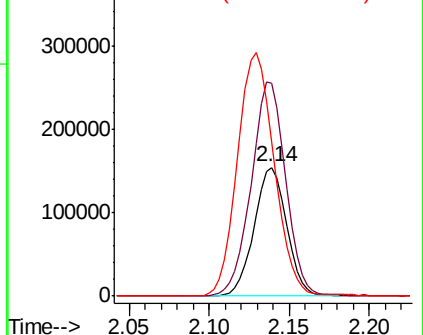
63 119.7 89.6 166.4

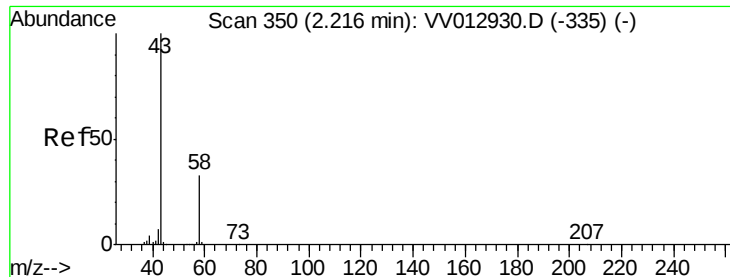


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 49.609 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

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MSVOA_V

ClientSampleId :

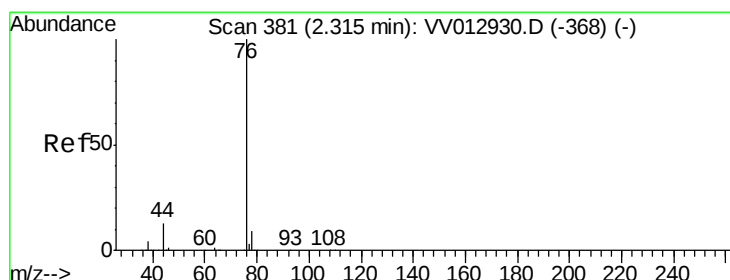
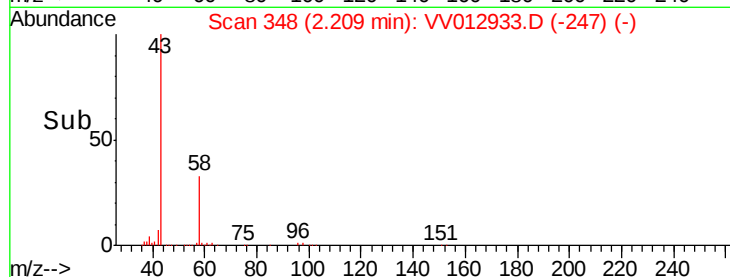
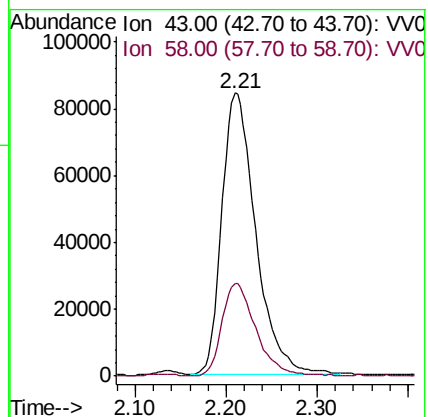
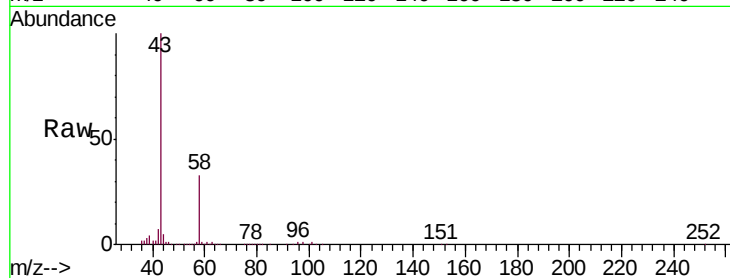
BFB61

Tgt Ion: 43 Resp: 219212

Ion Ratio Lower Upper

43 100

58 32.4 0.0 65.0



#14

Carbon disulfide

Concen: 25.326 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012933.D

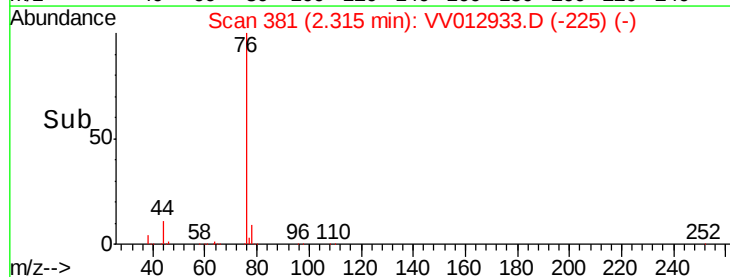
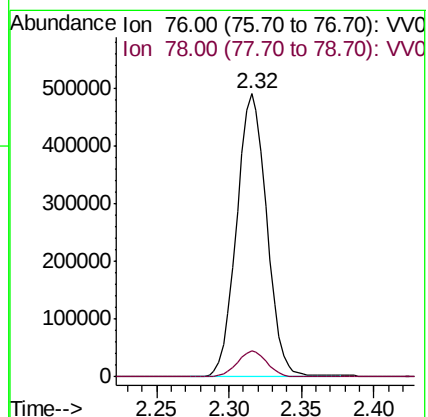
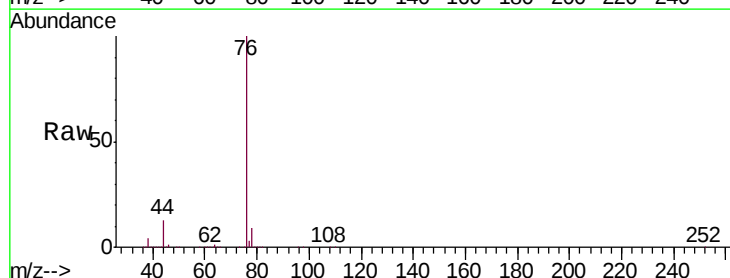
Acq: 23 Sep 2019 12:39

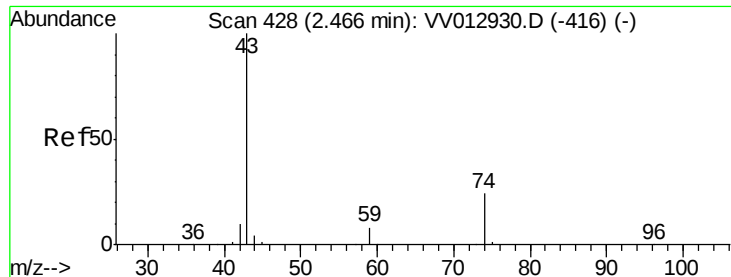
Tgt Ion: 76 Resp: 709673

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9

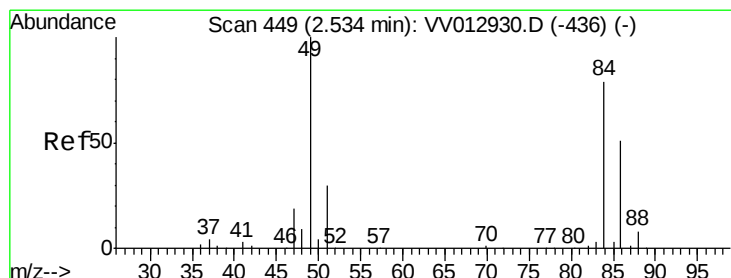
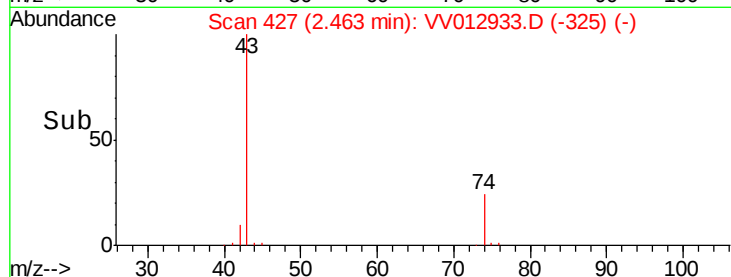
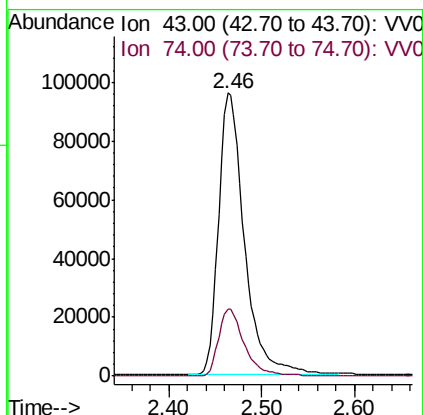
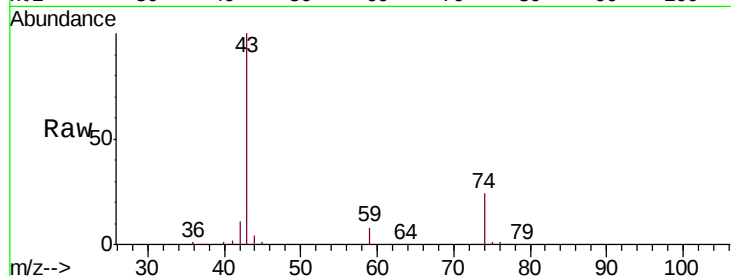




#15
Methyl Acetate
Concen: 27.202 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

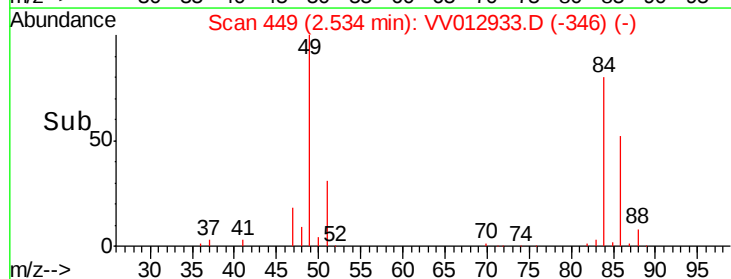
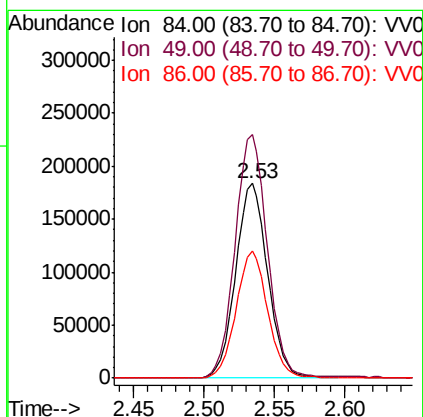
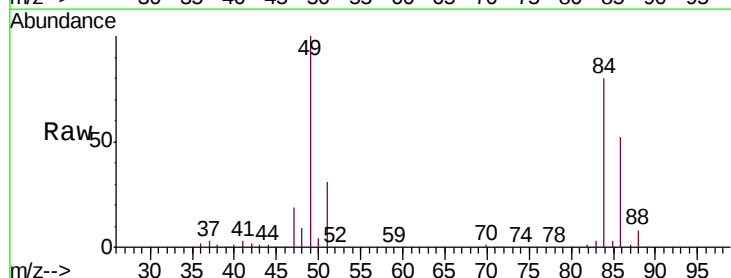
Instrument :
MSVOA_V
ClientSampled :
BFB61

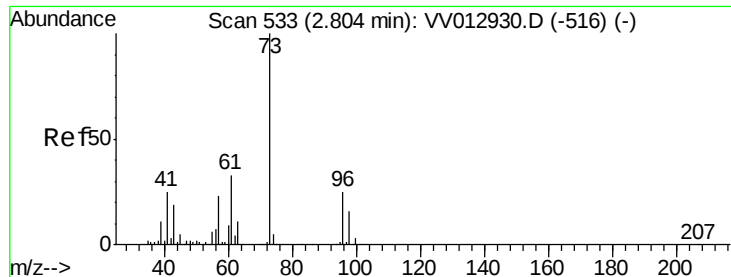
Tgt Ion: 43 Resp: 186432
Ion Ratio Lower Upper
43 100
74 23.7 18.8 28.2



#16
Methylene chloride
Concen: 25.356 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Tgt Ion: 84 Resp: 294112
Ion Ratio Lower Upper
84 100
49 125.1 88.3 164.1
86 65.0 44.9 83.3





#17

Methyl tert-butyl Ether

Concen: 27.848 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

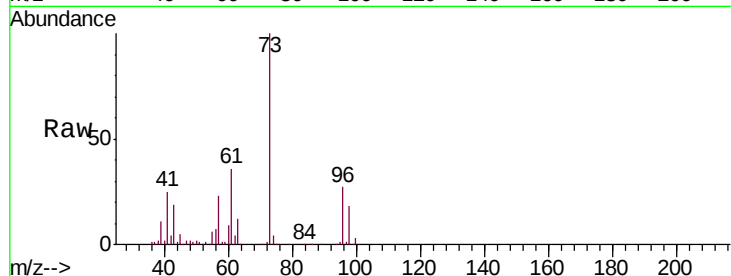
Tgt Ion: 73 Resp: 716794

Ion Ratio Lower Upper

73 100

43 18.6 15.0 22.6

57 22.5 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VV012933.D (-516) (-)

Ion 43.00 (42.70 to 43.70): VV012933.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VV012933.D (-516) (-)

400000

300000

200000

100000

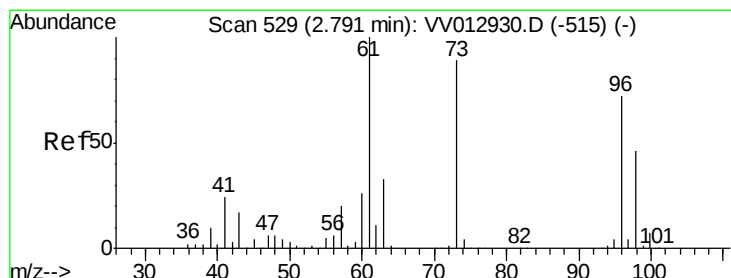
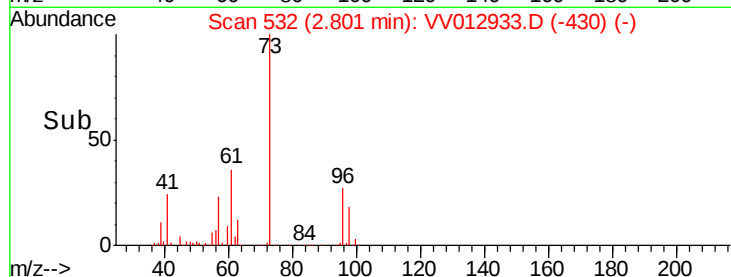
0

2.70

2.80

2.90

Time-->



#18

trans-1,2-Dichloroethene

Concen: 25.645 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

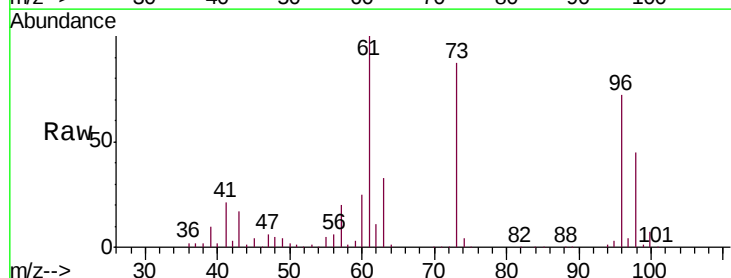
Tgt Ion: 96 Resp: 266281

Ion Ratio Lower Upper

96 100

61 137.9 96.8 179.8

98 61.7 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VV012933.D (-426) (-)

Ion 61.00 (60.70 to 61.70): VV012933.D (-426) (-)

Ion 98.00 (97.70 to 98.70): VV012933.D (-426) (-)

300000

250000

200000

150000

100000

50000

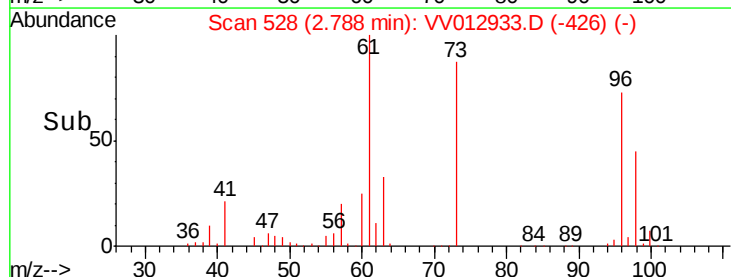
0

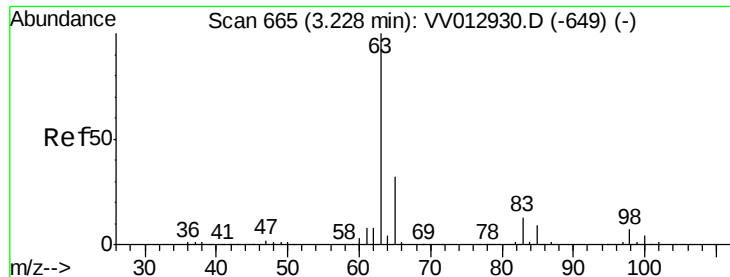
2.75

2.80

2.85

Time-->





#19

1,1-Dichloroethane

Concen: 25.963 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

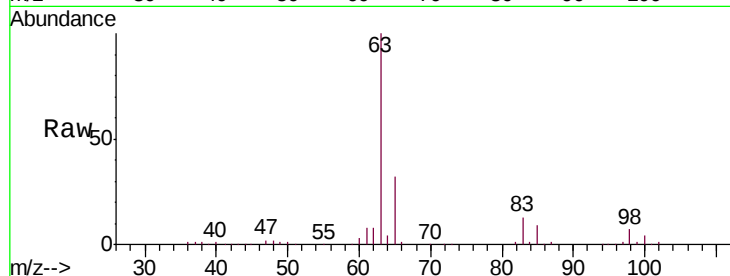
Tgt Ion: 63 Resp: 491968

Ion Ratio Lower Upper

63 100

65 31.8 22.0 41.0

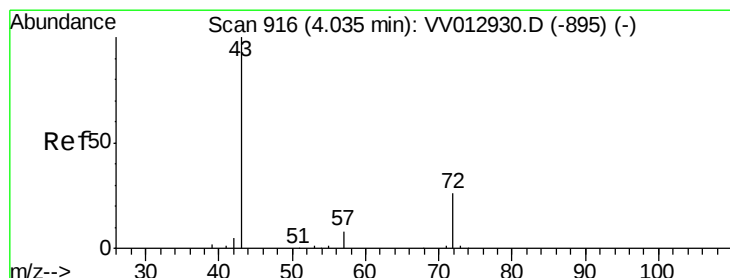
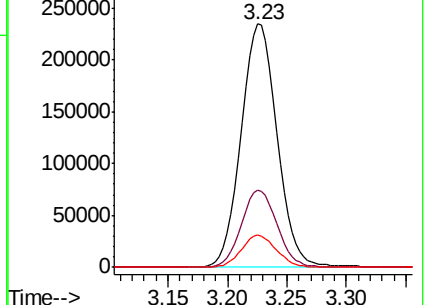
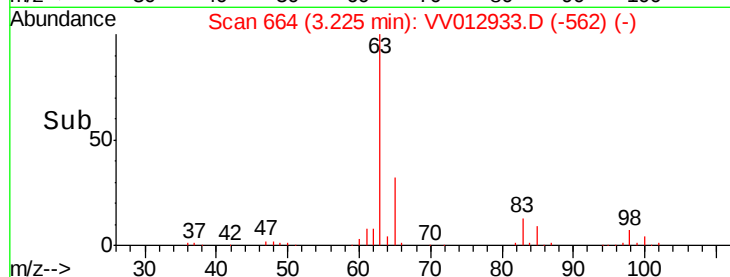
83 13.4 9.2 17.0



Abundance Ion 63.00 (62.70 to 63.70): VV012933.D (-649) (-)

Ion 65.00 (64.70 to 65.70): VV012933.D (-649) (-)

Ion 83.00 (82.70 to 83.70): VV012933.D (-649) (-)



#21

2-Butanone

Concen: 53.254 ug/L

RT: 4.03 min Scan# 914

Delta R.T. -0.01 min

Lab File: VV012933.D

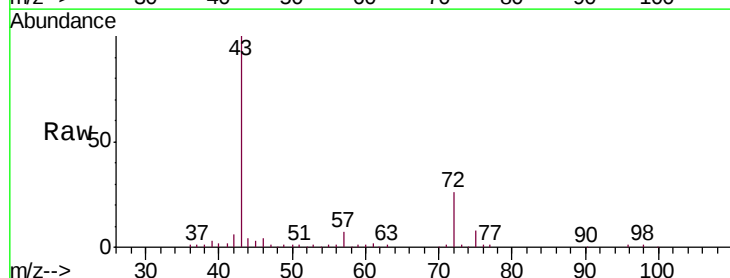
Acq: 23 Sep 2019 12:39

Tgt Ion: 43 Resp: 273857

Ion Ratio Lower Upper

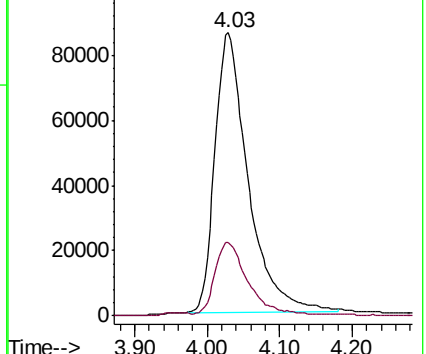
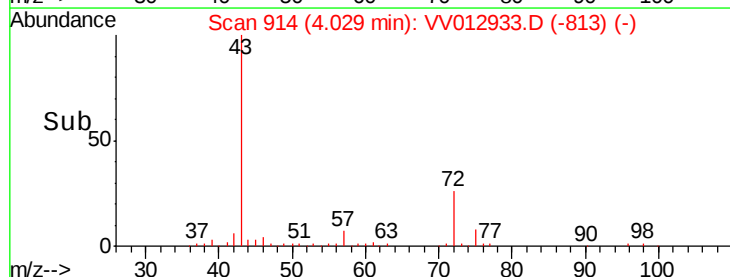
43 100

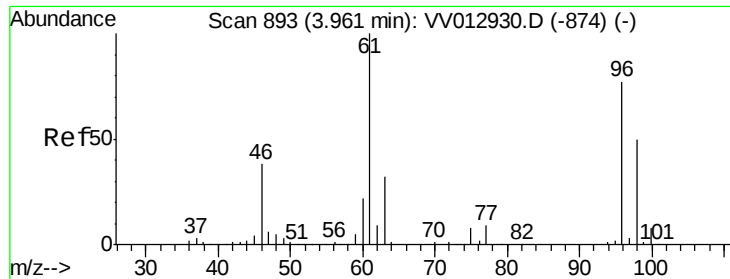
72 24.0 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VV012933.D (-813) (-)

Ion 72.00 (71.70 to 72.70): VV012933.D (-813) (-)



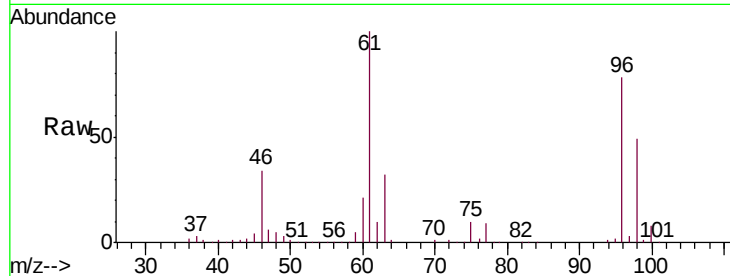


#22

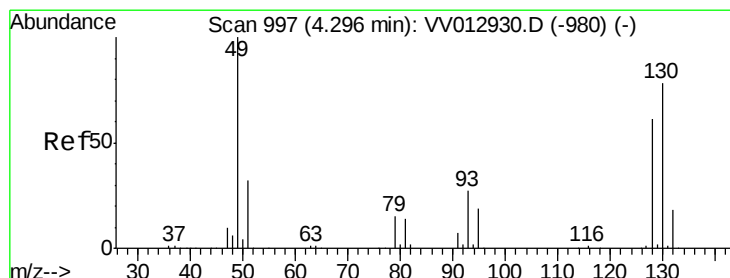
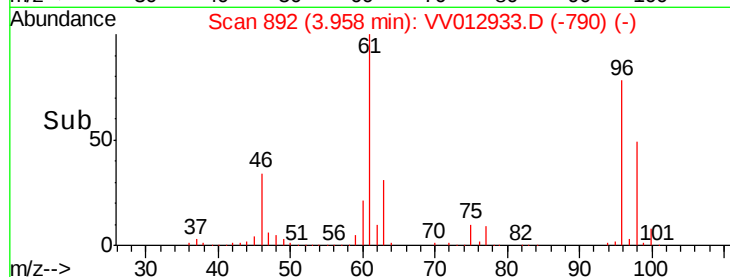
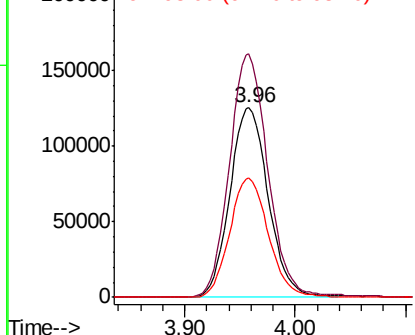
cis-1,2-Dichloroethene
Concen: 26.630 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Instrument :
MSVOA_V
ClientSampleId :
BFB61

Tgt Ion: 96 Resp: 302629
Ion Ratio Lower Upper
96 100
61 128.4 90.9 168.7
98 63.0 45.6 84.6



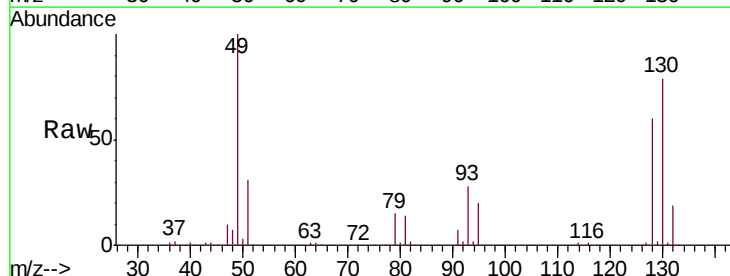
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



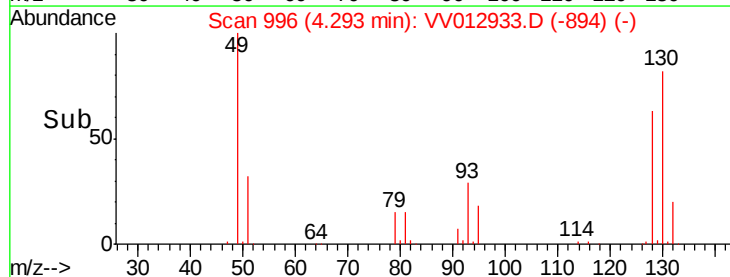
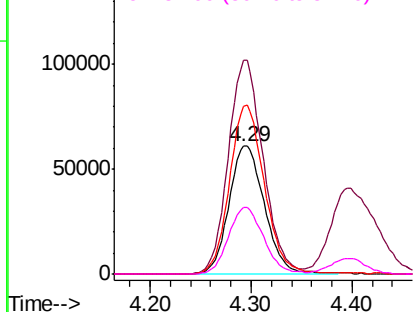
#23

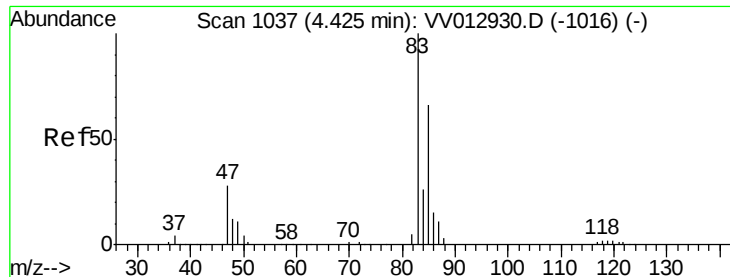
Bromochloromethane
Concen: 26.636 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Tgt Ion: 128 Resp: 149513
Ion Ratio Lower Upper
128 100
49 167.3 114.4 212.6
130 131.7 88.5 164.4
51 52.4 41.4 62.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0

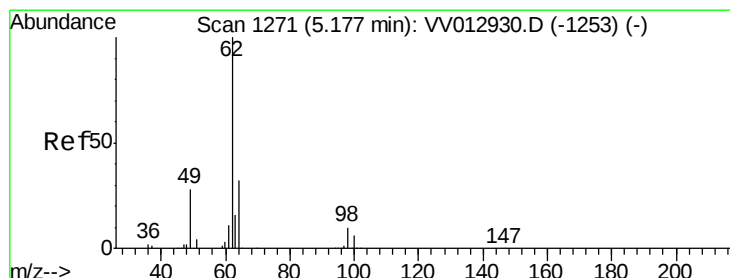
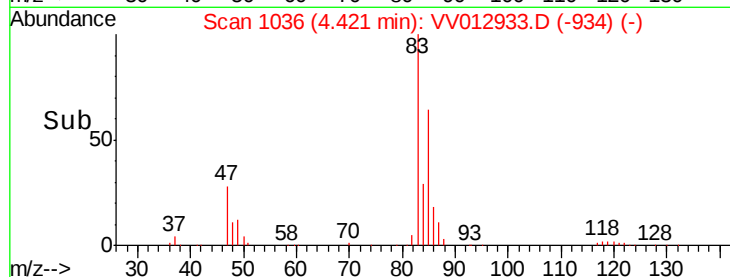
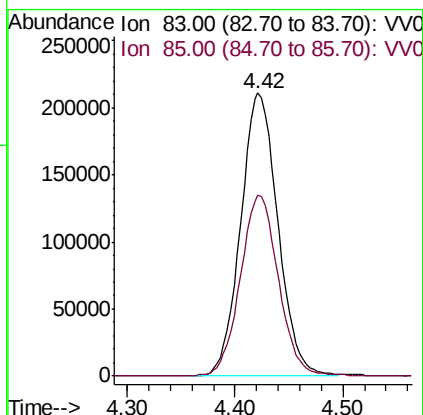
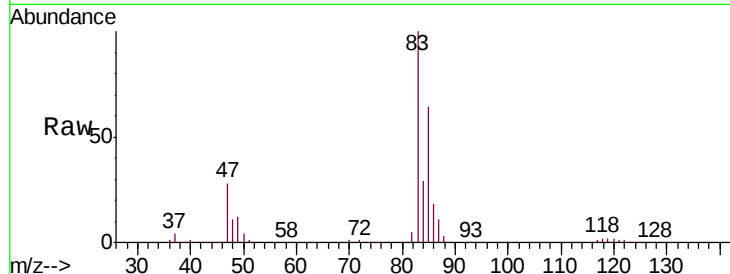




#25
Chloroform
Concen: 25.499 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

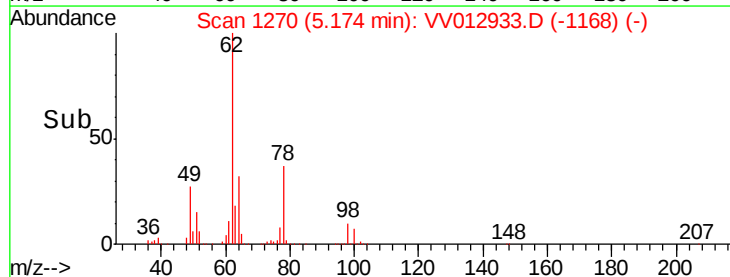
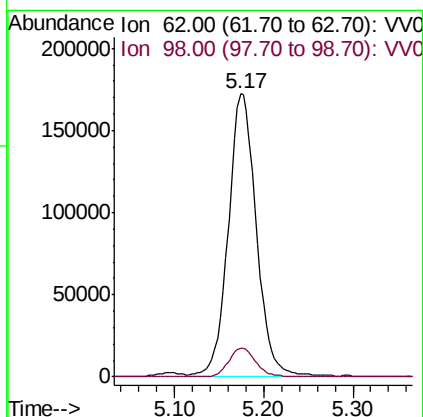
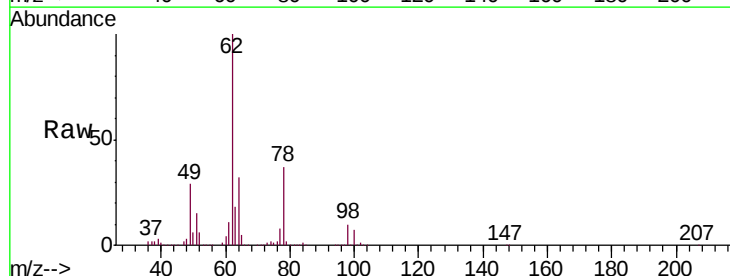
Instrument :
MSVOA_V
ClientSampleId :
BFB61

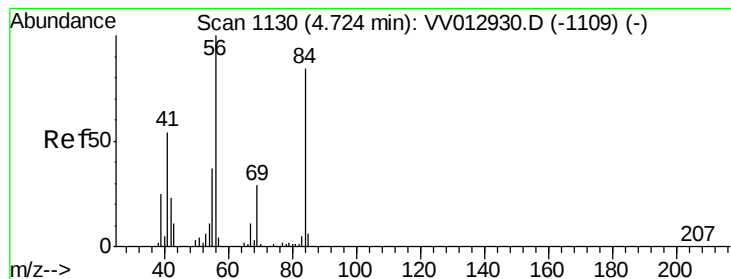
Tgt Ion: 83 Resp: 506594
Ion Ratio Lower Upper
83 100
85 65.5 45.8 85.0



#27
1,2-Dichloroethane
Concen: 26.771 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Tgt Ion: 62 Resp: 375932
Ion Ratio Lower Upper
62 100
98 10.0 8.2 12.4





#30

Cyclohexane

Concen: 26.395 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

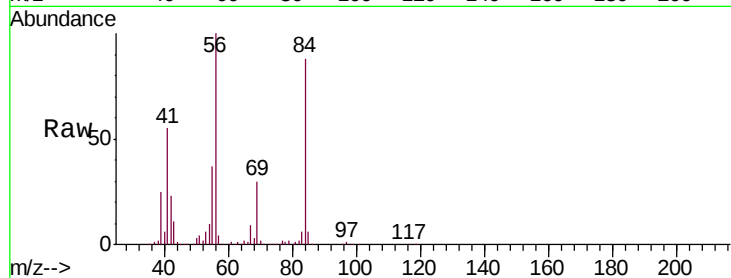
Tgt Ion: 56 Resp: 435762

Ion Ratio Lower Upper

56 100

69 30.1 23.8 35.8

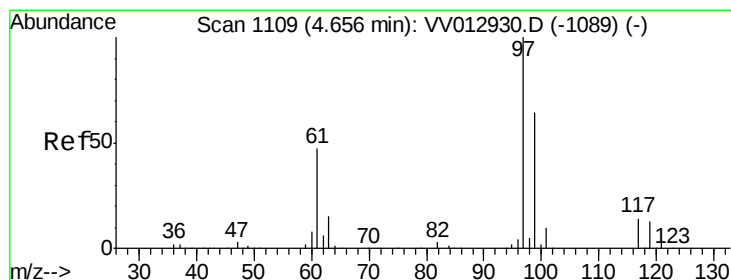
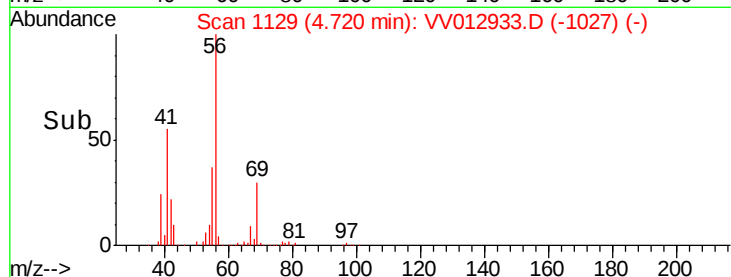
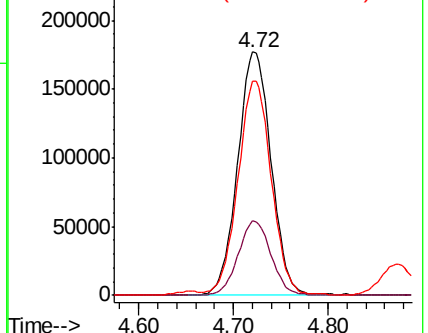
84 86.5 68.4 102.6



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 25.410 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

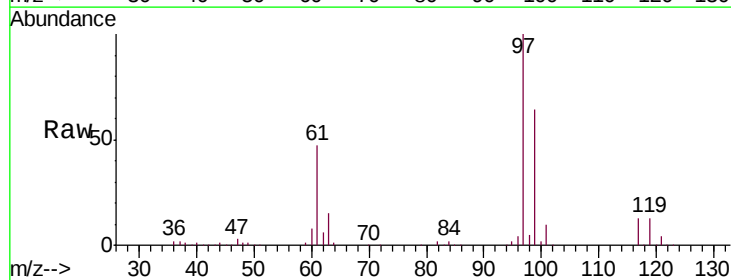
Tgt Ion: 97 Resp: 386993

Ion Ratio Lower Upper

97 100

99 64.9 51.7 77.5

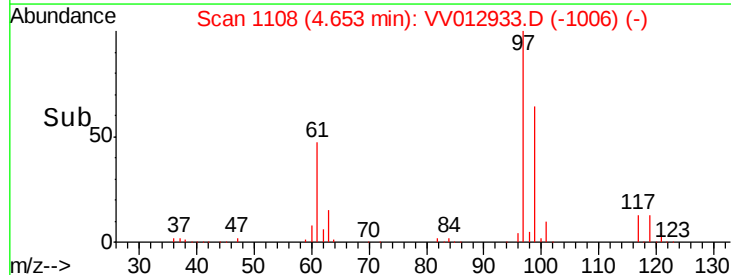
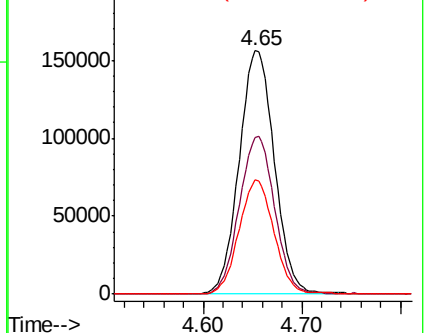
61 46.5 37.8 56.8

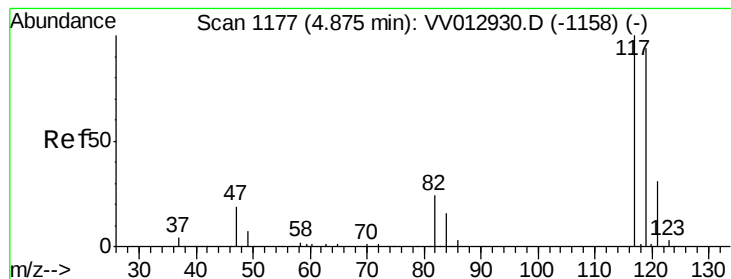


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 25.305 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

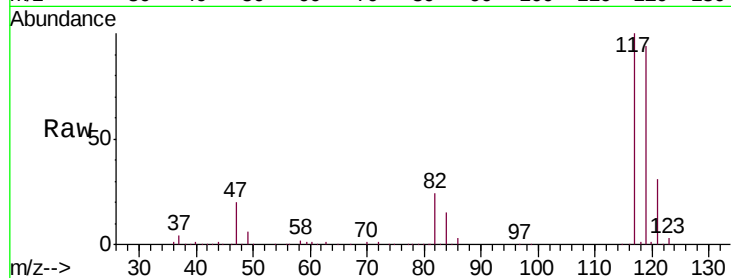
BFB61

Tgt Ion:117 Resp: 349461

Ion Ratio Lower Upper

117 100

119 95.0 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

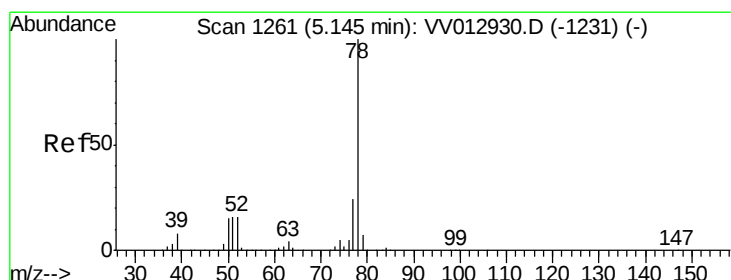
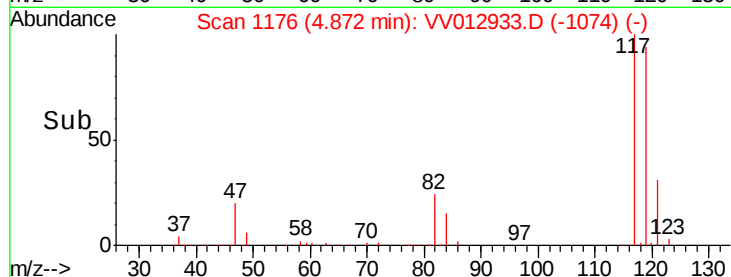
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 26.522 ug/L

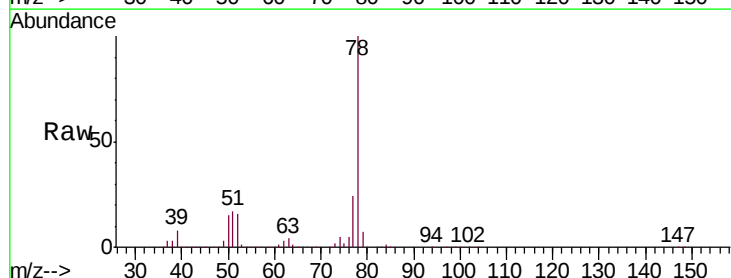
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Tgt Ion: 78 Resp: 1136080



Abundance Ion 78.00 (77.70 to 78.70): VV0

600000

500000

400000

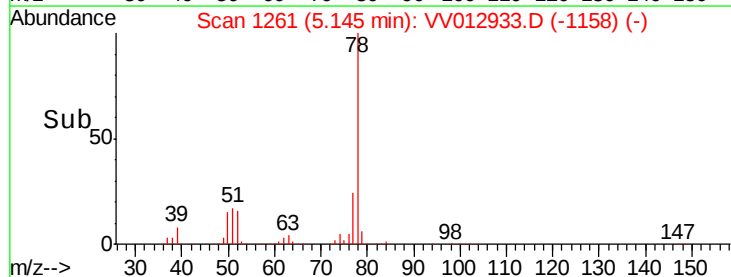
300000

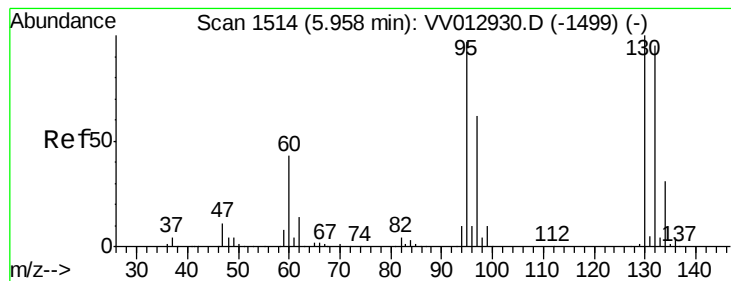
200000

100000

0

Time-->





#35

Trichloroethene

Concen: 25.330 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

Tgt Ion: 95 Resp: 302250

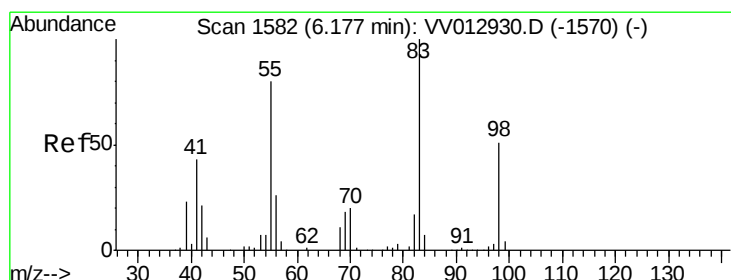
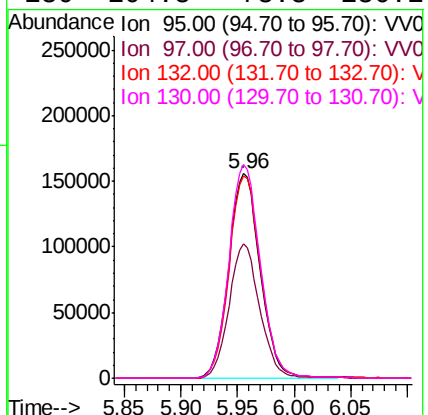
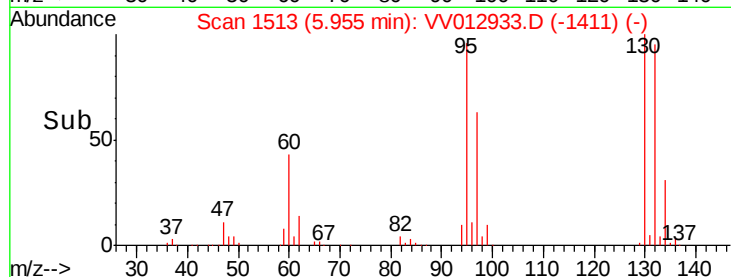
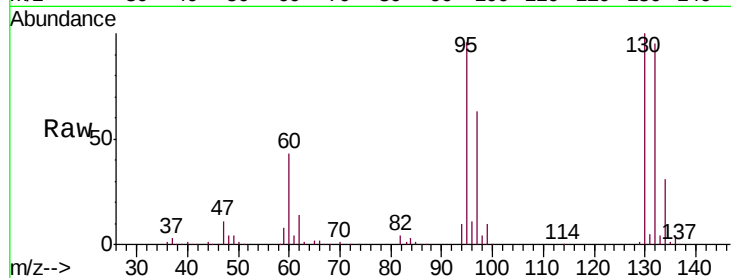
Ion Ratio Lower Upper

95 100

97 64.1 44.7 82.9

132 99.1 70.1 130.1

130 104.8 73.3 136.1



#36

Methylcyclohexane

Concen: 26.176 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

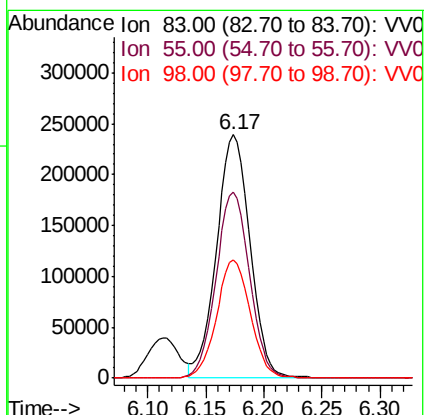
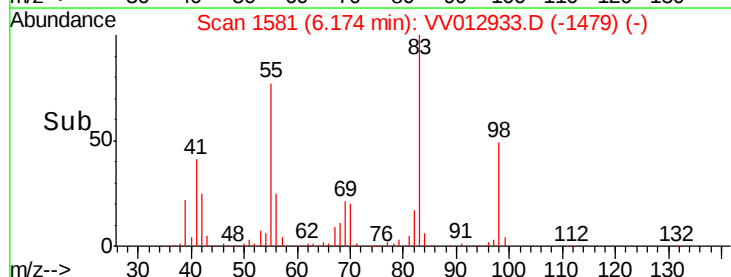
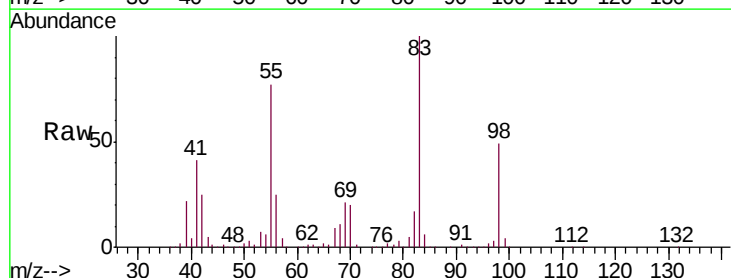
Tgt Ion: 83 Resp: 479502

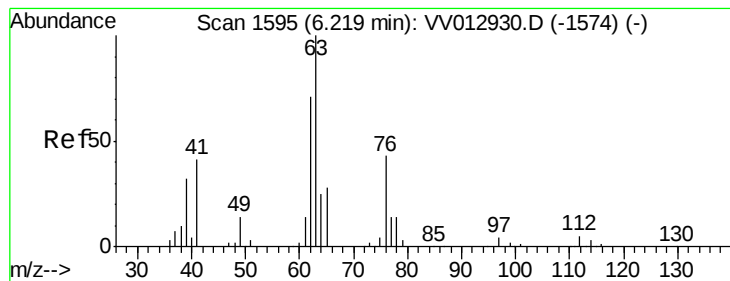
Ion Ratio Lower Upper

83 100

55 76.5 61.8 92.8

98 48.6 39.3 58.9





#40

1,2-Dichloropropane

Concen: 26.781 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

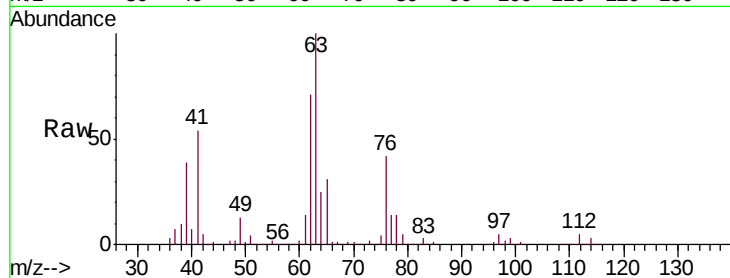
BFB61

Tgt Ion: 63 Resp: 298323

Ion Ratio Lower Upper

63 100

112 4.7 3.8 5.6



Abundance Ion 63.00 (62.70 to 63.70): VV012933.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV012933.D (-1574) (-)

150000

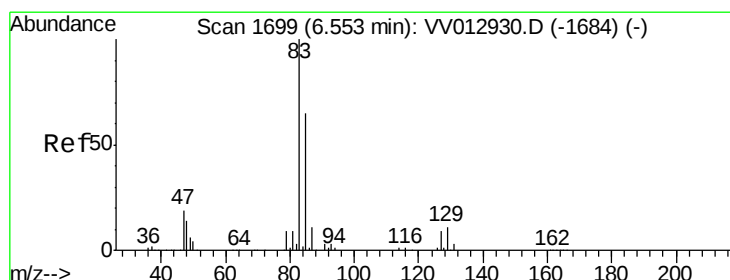
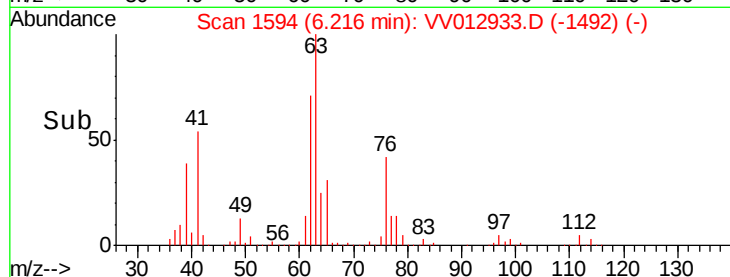
100000

50000

0

6.10 6.20 6.30

Time-->



#41

Bromodichloromethane

Concen: 26.938 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

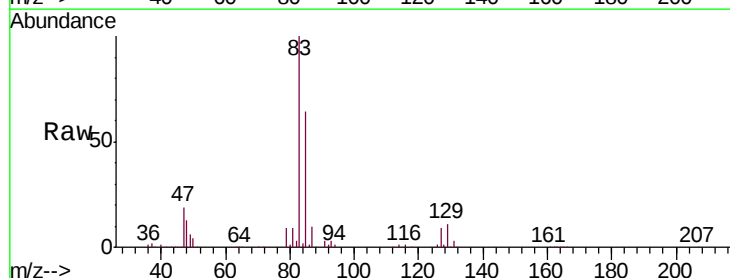
Tgt Ion: 83 Resp: 384344

Ion Ratio Lower Upper

83 100

85 64.4 45.3 84.1

127 8.5 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VV012933.D (-1684) (-)

Ion 85.00 (84.70 to 85.70): VV012933.D (-1684) (-)

Ion 127.00 (126.70 to 127.70): VV012933.D (-1684) (-)

250000

200000

150000

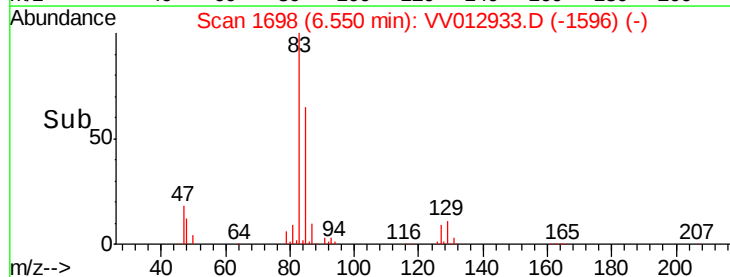
100000

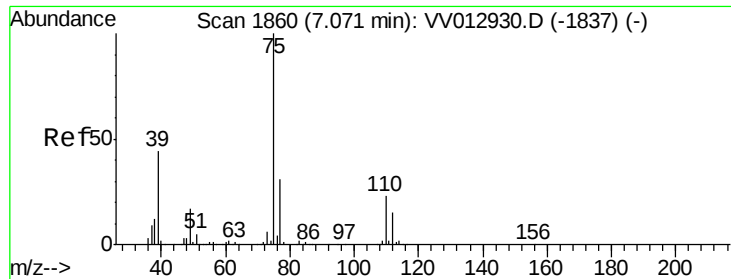
50000

0

6.50 6.60 6.70

Time-->



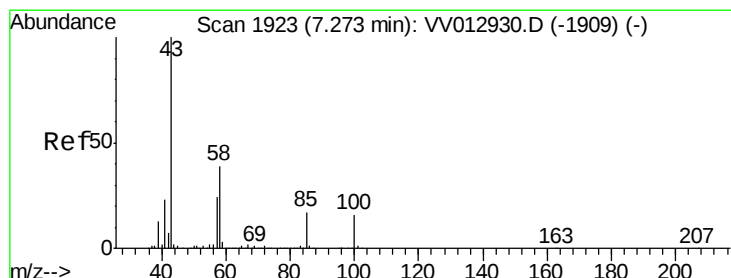
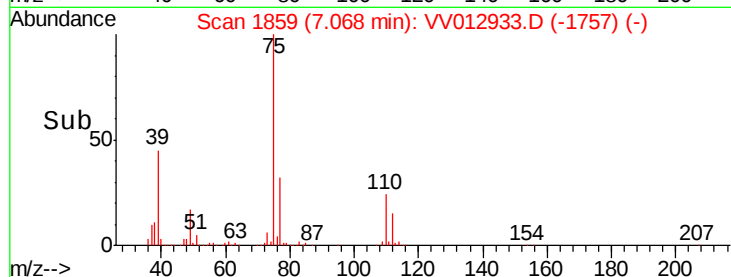
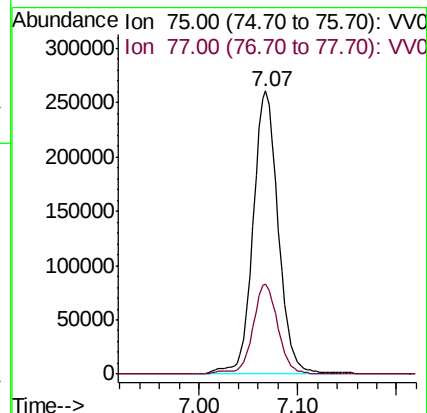
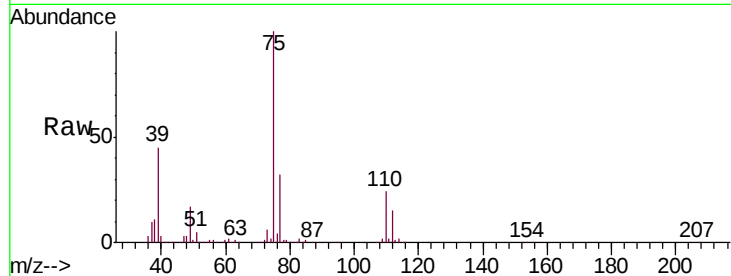


#42

cis-1,3-Dichloropropene
Concen: 28.069 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Instrument :
MSVOA_V
ClientSampleId :
BFB61

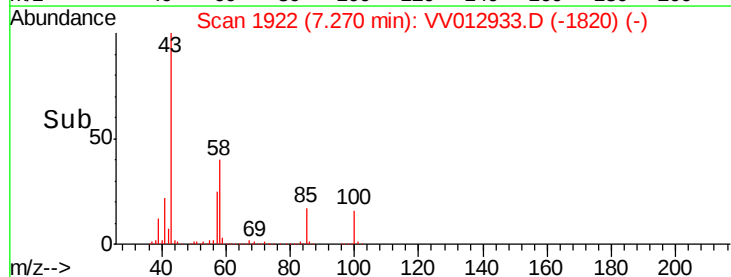
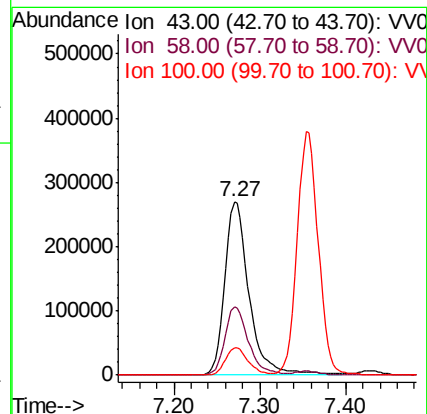
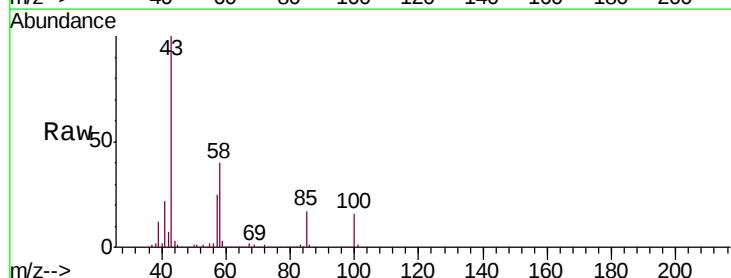
Tgt Ion: 75 Resp: 459424
Ion Ratio Lower Upper
75 100
77 31.8 21.5 39.9

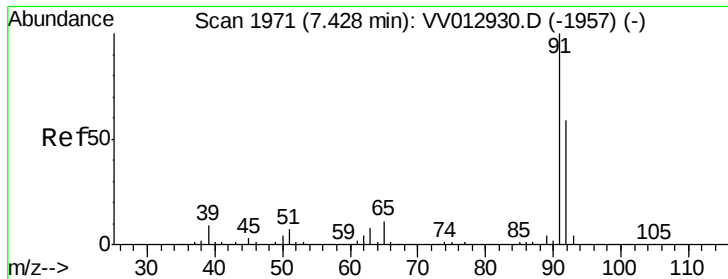


#43

4-Methyl-2-pentanone
Concen: 58.087 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Tgt Ion: 43 Resp: 531606
Ion Ratio Lower Upper
43 100
58 38.2 31.2 46.8
100 15.1 12.2 18.2





#44

Toluene

Concen: 27.151 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

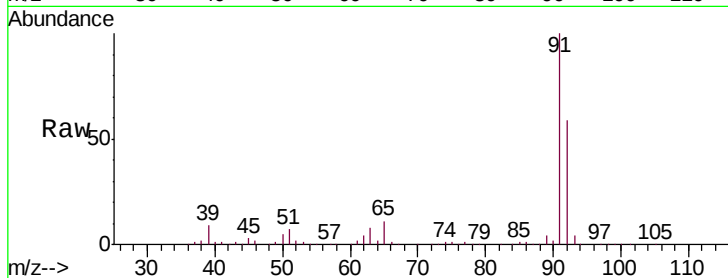
BFB61

Tgt Ion: 91 Resp: 1226621

Ion Ratio Lower Upper

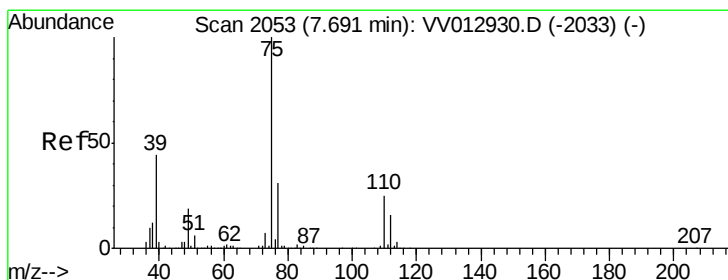
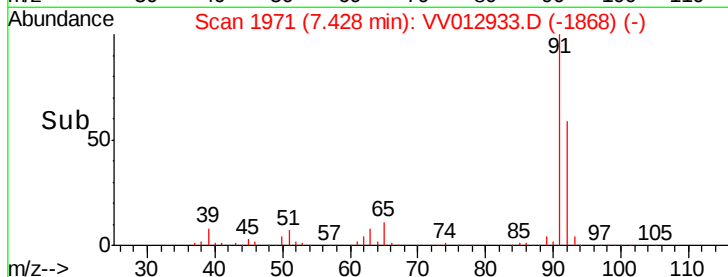
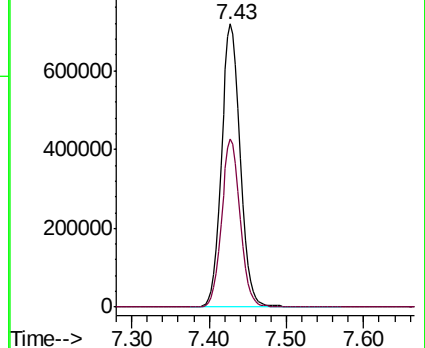
91 100

92 59.5 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 27.541 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012933.D

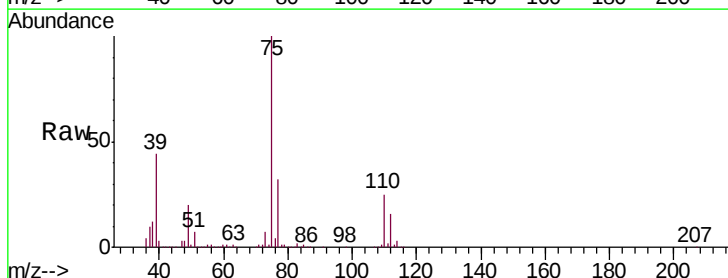
Acq: 23 Sep 2019 12:39

Tgt Ion: 75 Resp: 379398

Ion Ratio Lower Upper

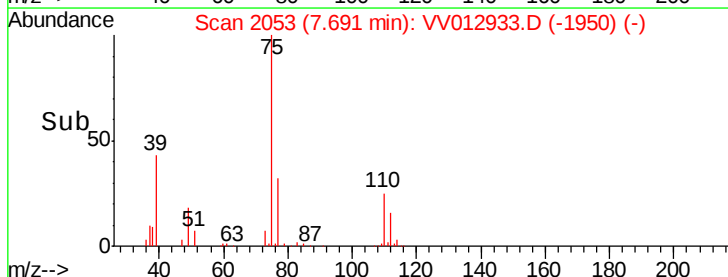
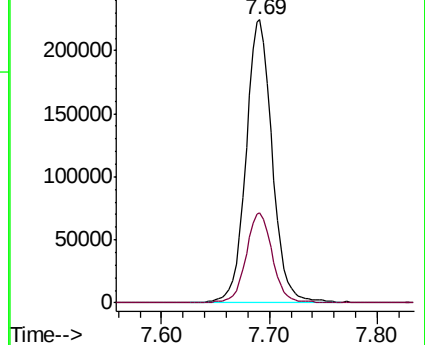
75 100

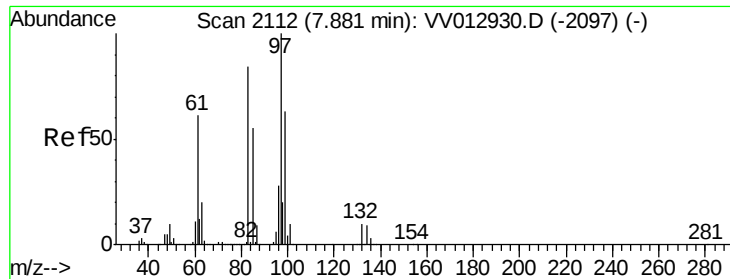
77 31.9 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#46

1,1,2-Trichloroethane

Concen: 26.615 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

Tgt Ion: 97 Resp: 251690

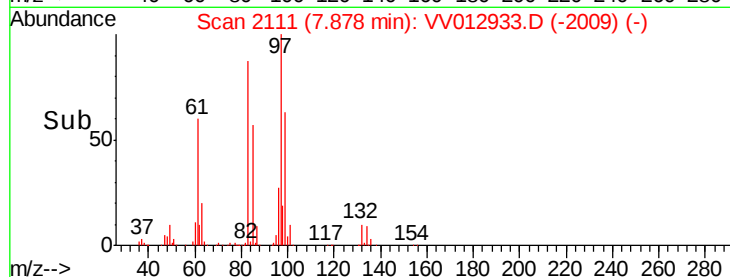
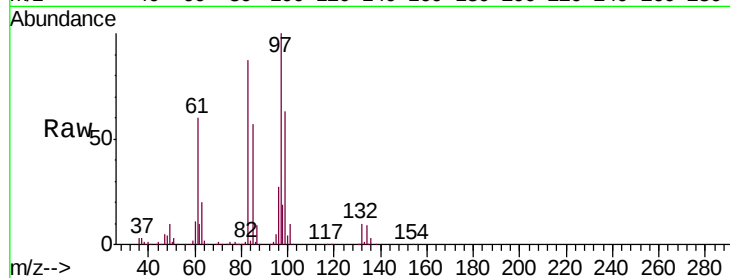
Ion Ratio Lower Upper

97 100

83 87.3 58.9 109.5

85 56.7 38.4 71.2

99 62.7 43.8 81.4

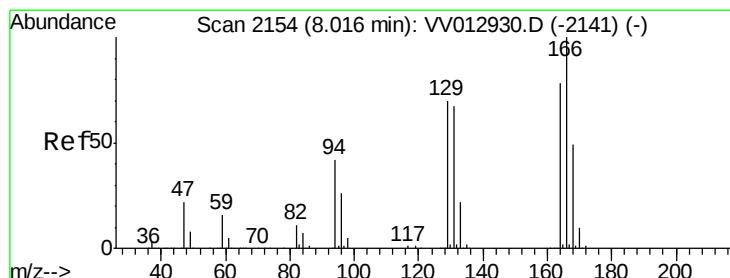
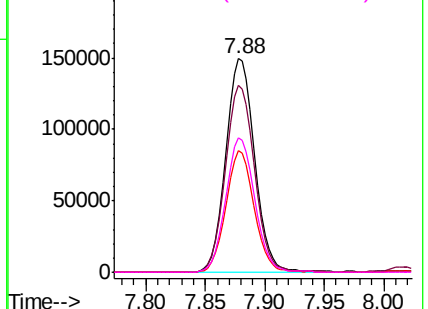


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 25.260 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Tgt Ion: 164 Resp: 244979

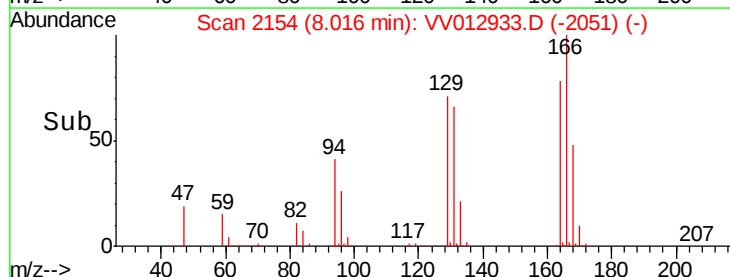
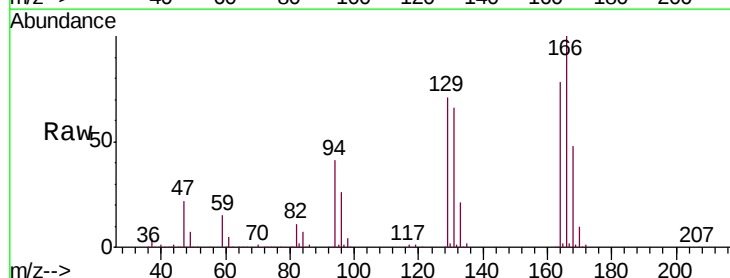
Ion Ratio Lower Upper

164 100

129 90.7 62.8 116.6

131 85.3 60.2 111.8

166 128.4 89.4 166.0

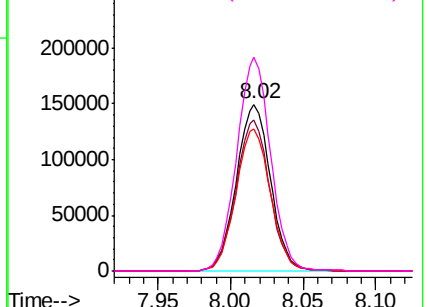


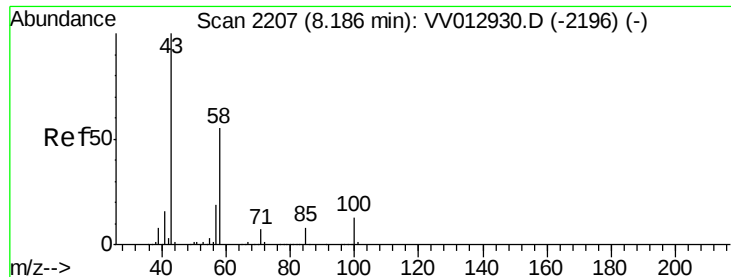
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

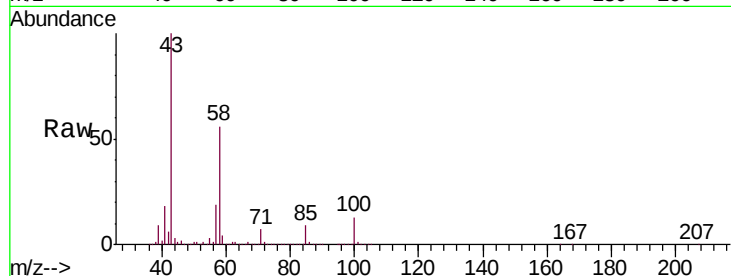




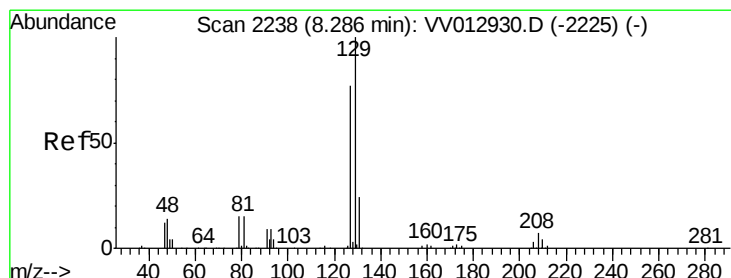
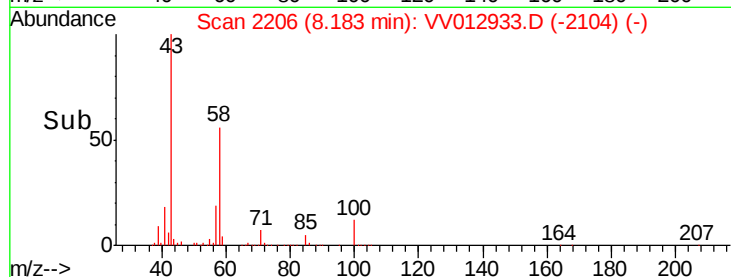
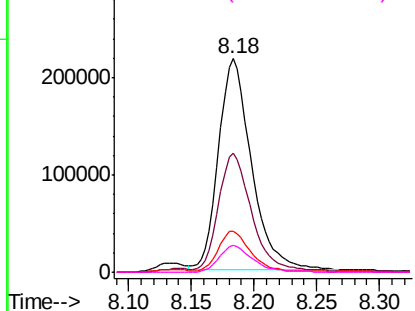
#49
2-Hexanone
Concen: 57.498 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Instrument :
MSVOA_V
ClientSampleId :
BFB61

Tgt Ion: 43 Resp: 396656
Ion Ratio Lower Upper
43 100
58 56.9 46.5 69.7
57 19.1 15.5 23.3
100 12.8 9.7 14.5

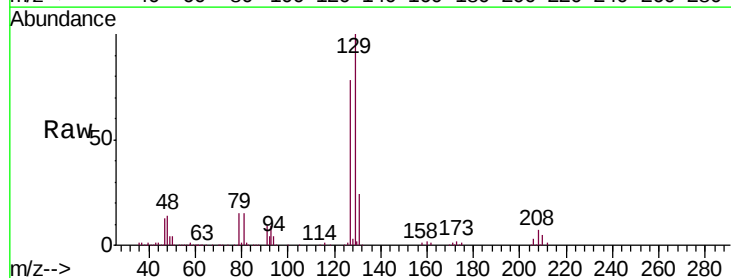


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

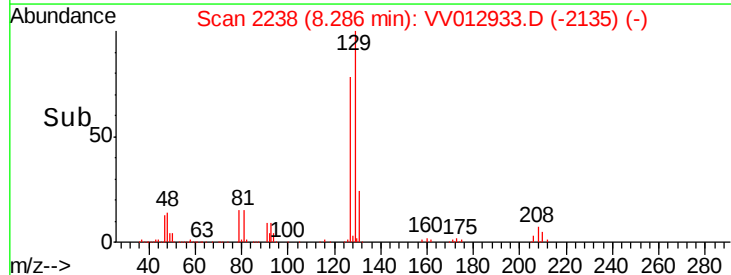
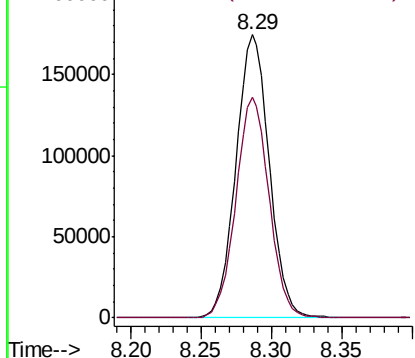


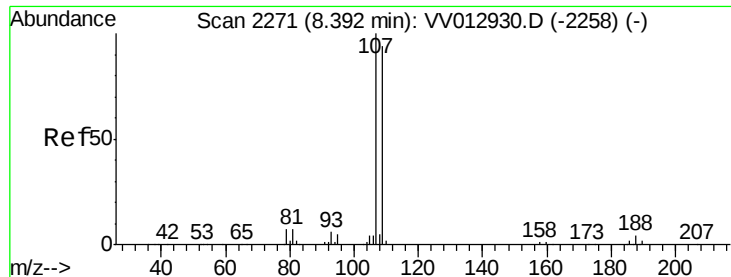
#50
Dibromochloromethane
Concen: 26.612 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV012933.D
Acq: 23 Sep 2019 12:39

Tgt Ion: 129 Resp: 289247
Ion Ratio Lower Upper
129 100
127 77.9 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 27.495 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

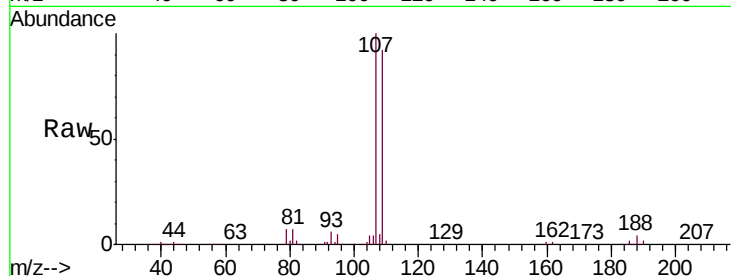
Tgt Ion:107 Resp: 254798

Ion Ratio Lower Upper

107 100

109 92.4 66.1 122.8

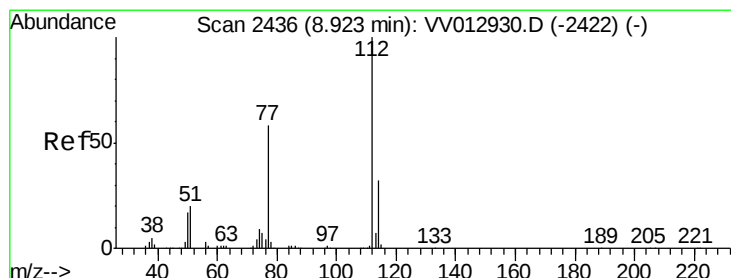
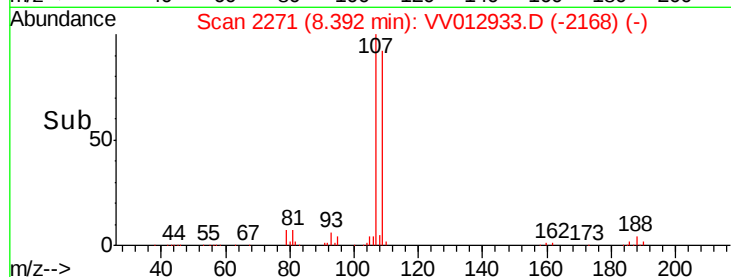
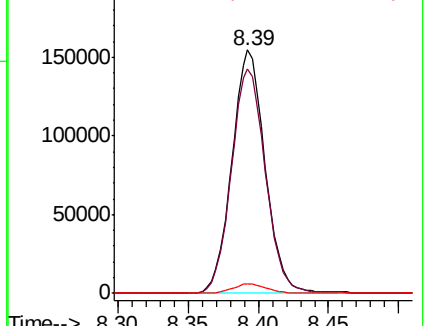
188 3.9 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 26.163 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

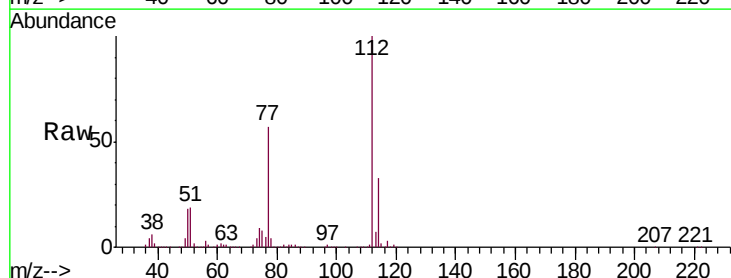
Tgt Ion:112 Resp: 815652

Ion Ratio Lower Upper

112 100

77 57.4 46.3 69.5

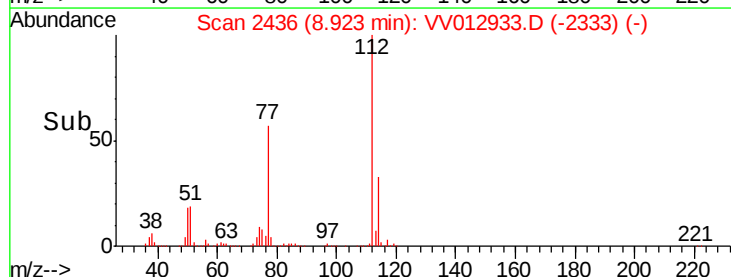
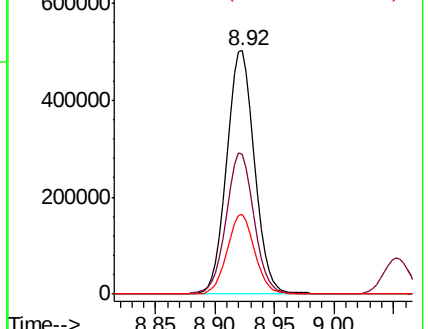
114 32.8 22.5 41.7

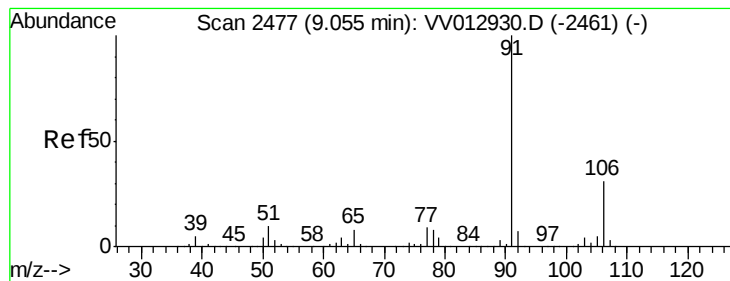


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 27.091 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

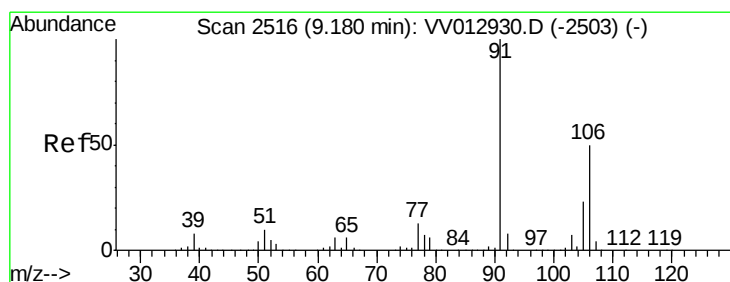
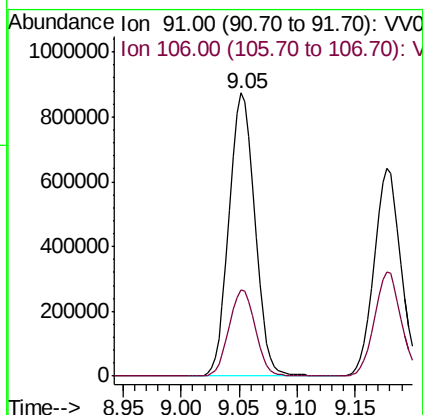
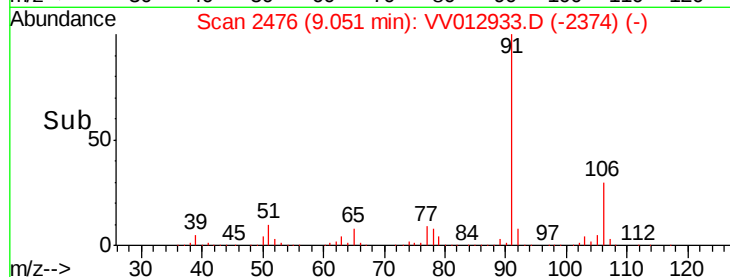
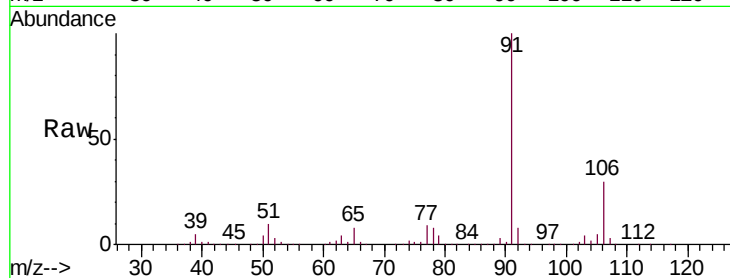
BFB61

Tgt Ion: 91 Resp: 1347575

Ion Ratio Lower Upper

91 100

106 30.5 21.8 40.4



#54

m,p-Xylene

Concen: 27.557 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV012933.D

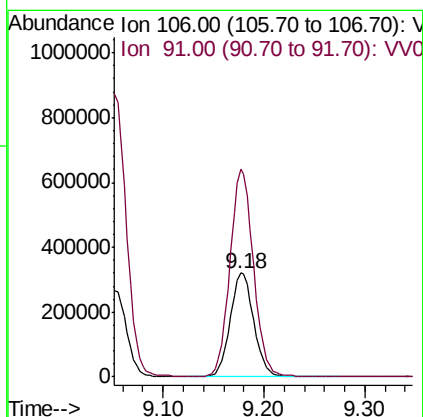
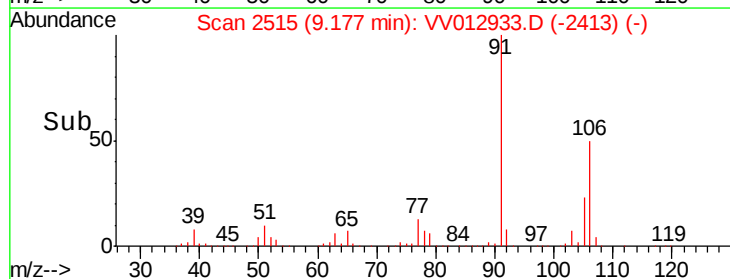
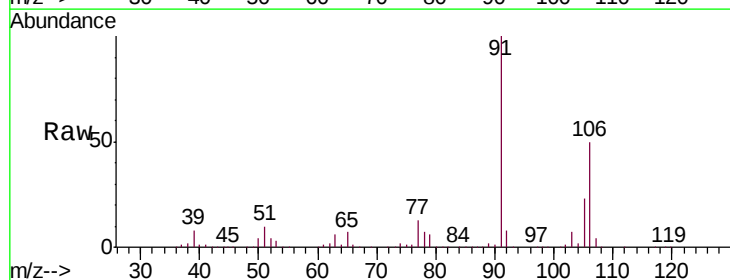
Acq: 23 Sep 2019 12:39

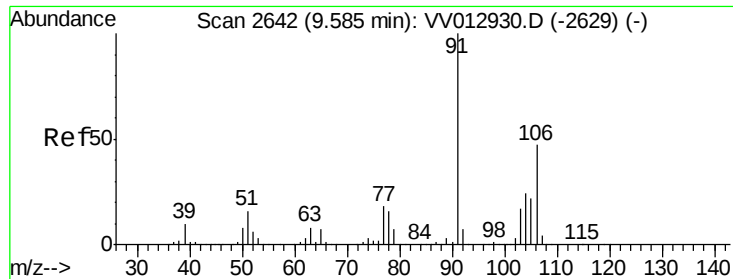
Tgt Ion: 106 Resp: 521105

Ion Ratio Lower Upper

106 100

91 200.0 140.1 260.3





#55

o-xylene

Concen: 28.066 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

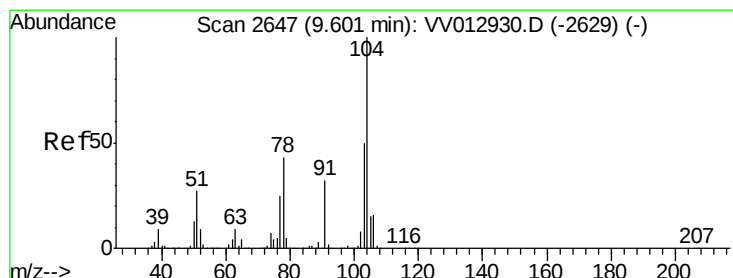
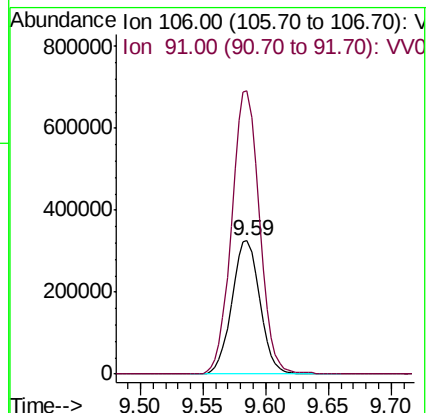
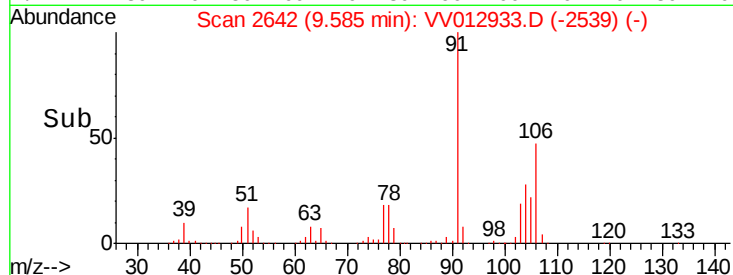
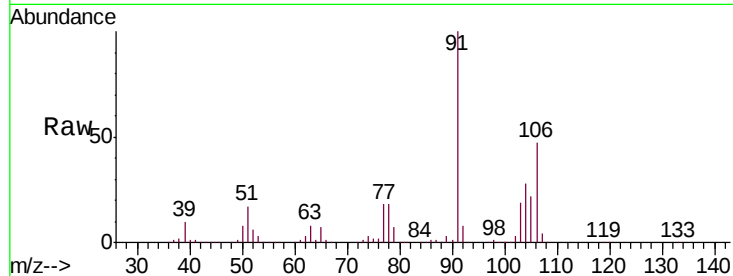
Instrument :
MSVOA_V
ClientSampleId :
BFB61

Tgt Ion:106 Resp: 505696

Ion Ratio Lower Upper

106 100

91 212.0 148.8 276.4



#56

Styrene

Concen: 28.419 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012933.D

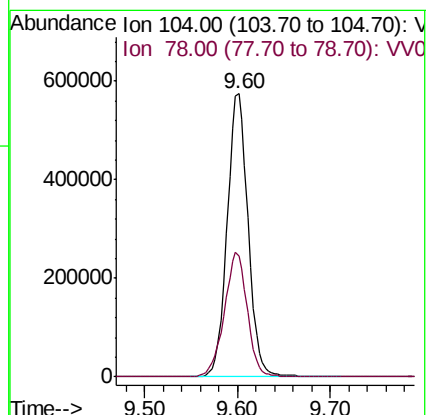
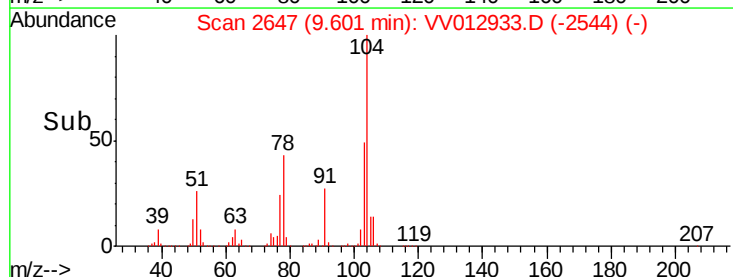
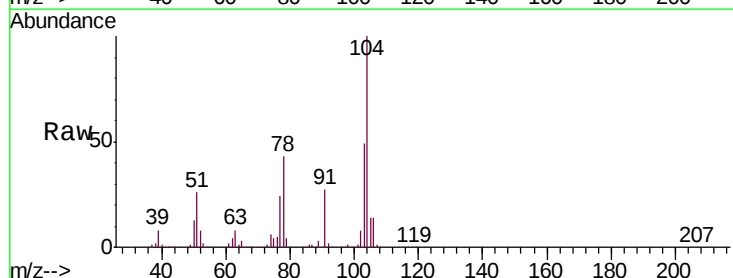
Acq: 23 Sep 2019 12:39

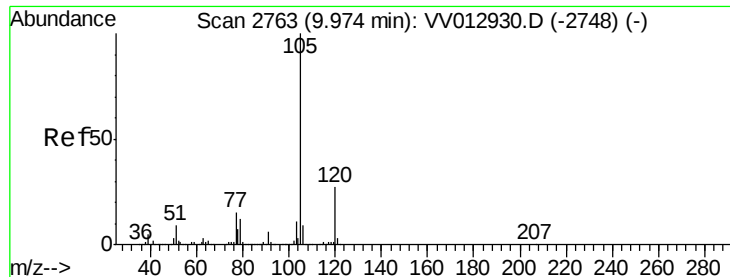
Tgt Ion:104 Resp: 900940

Ion Ratio Lower Upper

104 100

78 42.8 29.8 55.3





#57

Isopropylbenzene

Concen: 27.603 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampled :

BFB61

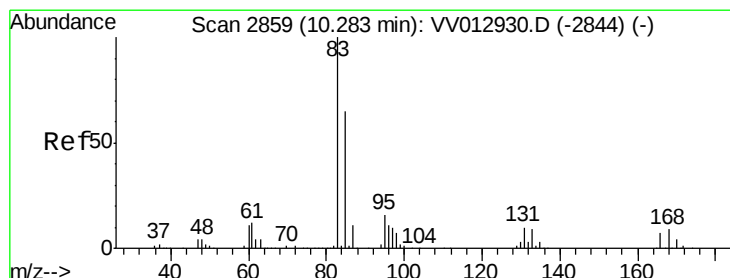
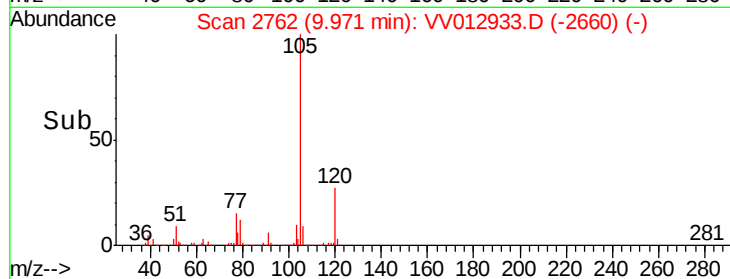
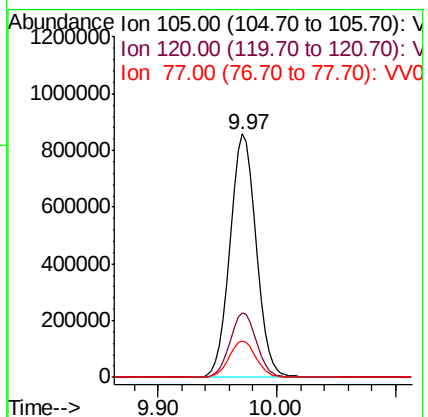
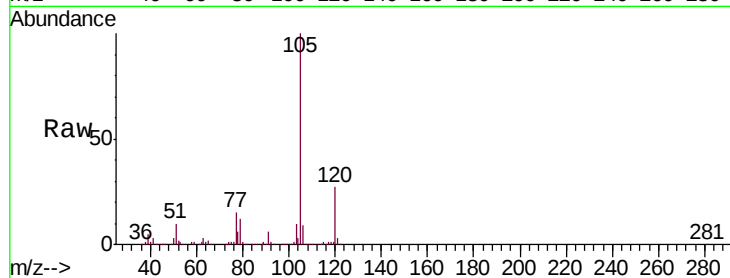
Tgt Ion:105 Resp: 1307067

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.0

77 15.3 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 27.000 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

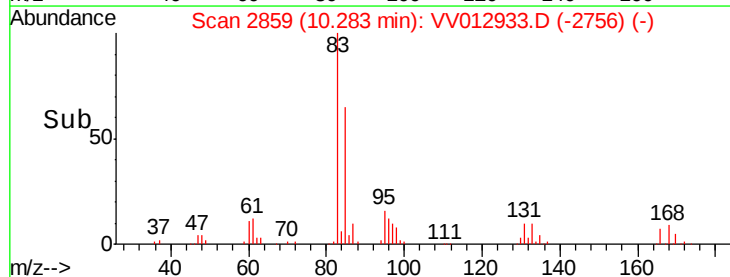
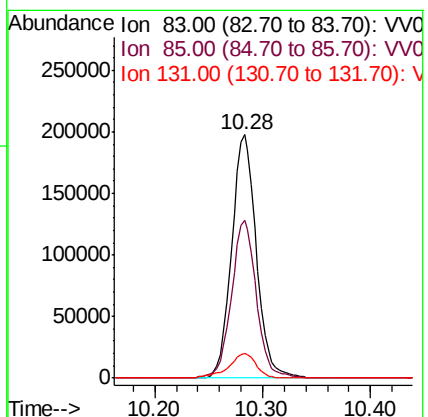
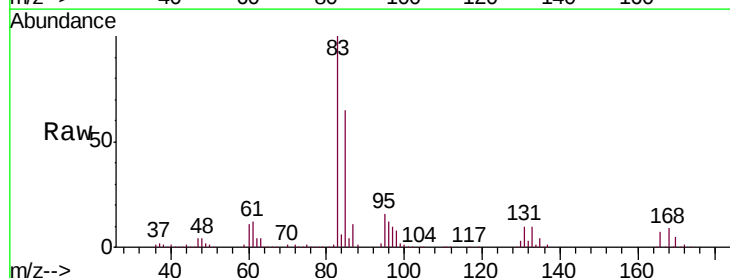
Tgt Ion: 83 Resp: 315841

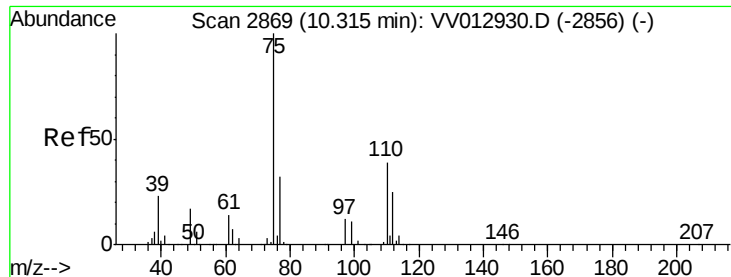
Ion Ratio Lower Upper

83 100

85 65.0 45.4 84.2

131 10.2 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 26.959 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

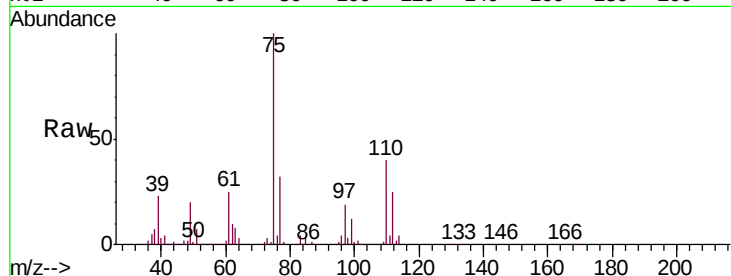
BFB61

Tgt Ion: 75 Resp: 260295

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV012930.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV012930.D (-2856) (-)

10.32

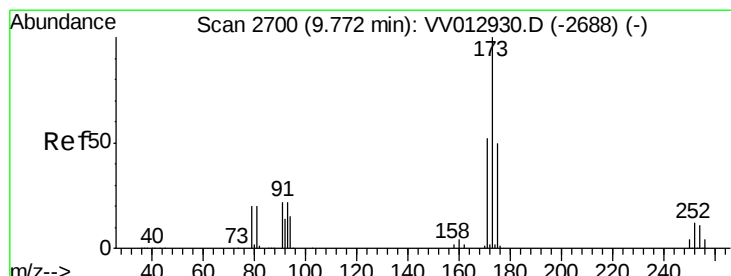
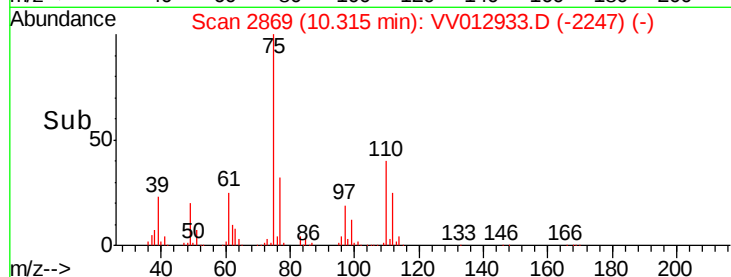
150000

100000

50000

0

Time-->



#62

Bromoform

Concen: 26.804 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

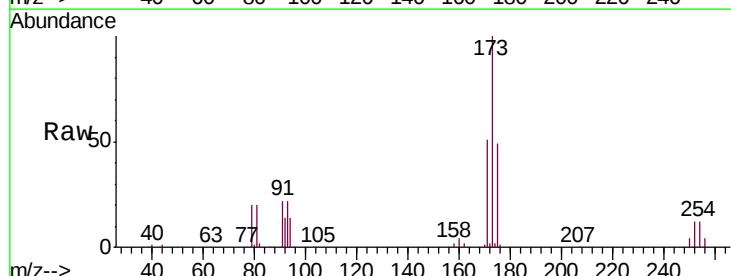
Tgt Ion: 173 Resp: 190055

Ion Ratio Lower Upper

173 100

175 48.5 39.5 59.3

254 11.8 9.1 13.7



Abundance Ion 173.00 (172.70 to 173.70): VV012930.D (-2688) (-)

Ion 175.00 (174.70 to 175.70): VV012930.D (-2688) (-)

Ion 254.00 (253.70 to 254.70): VV012930.D (-2688) (-)

9.77

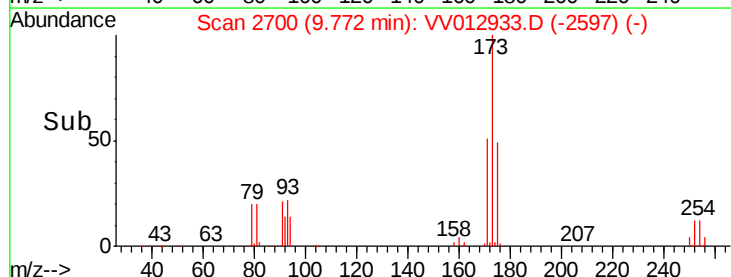
150000

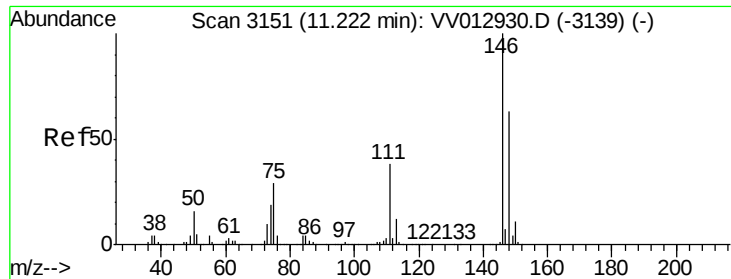
100000

50000

0

Time-->

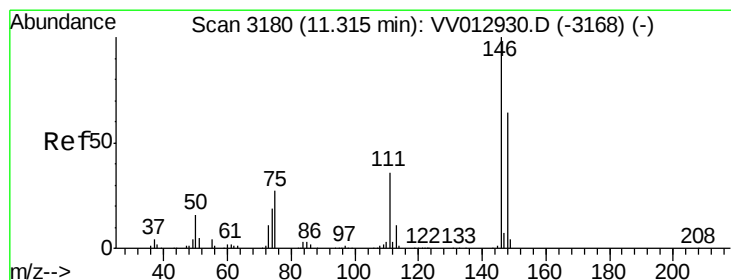
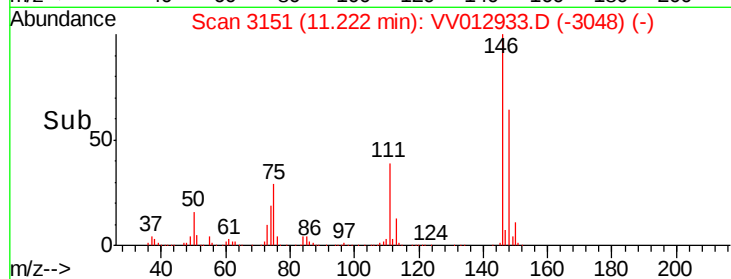
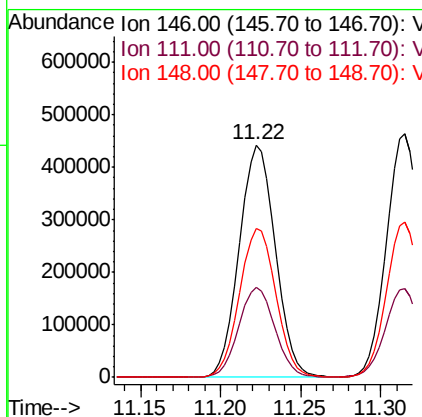
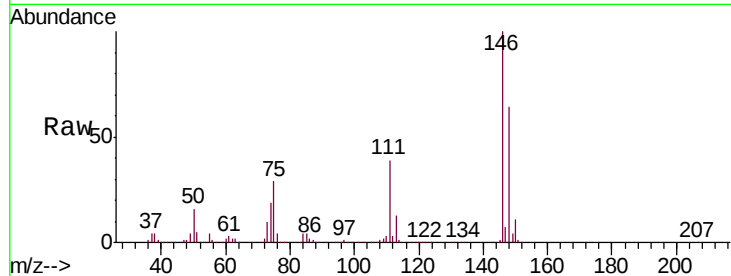




#63
 1,3-Dichlorobenzene
 Concen: 26.532 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV012933.D
 Acq: 23 Sep 2019 12:39

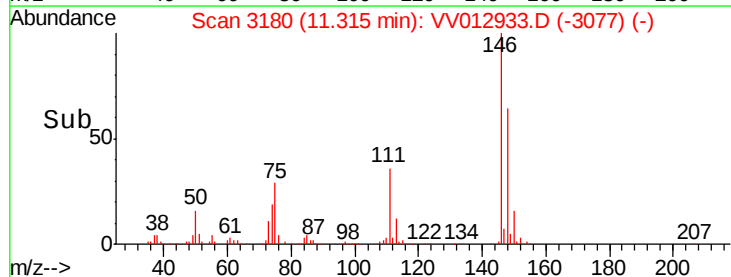
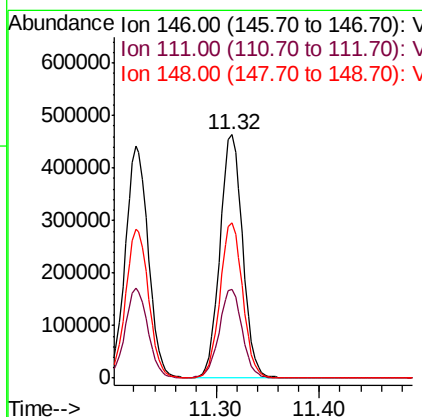
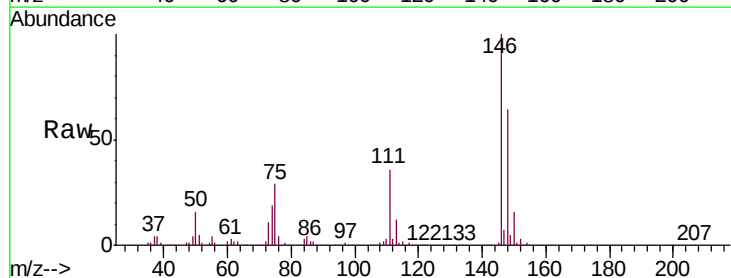
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB61

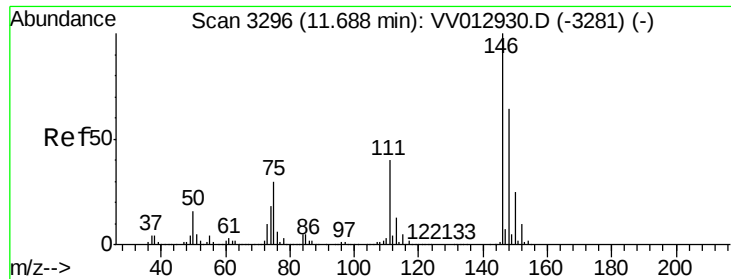
Tgt Ion:146 Resp: 682416
 Ion Ratio Lower Upper
 146 100
 111 38.8 26.7 49.7
 148 64.2 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 26.333 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012933.D
 Acq: 23 Sep 2019 12:39

Tgt Ion:146 Resp: 710830
 Ion Ratio Lower Upper
 146 100
 111 36.5 25.5 47.3
 148 63.5 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 26.530 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

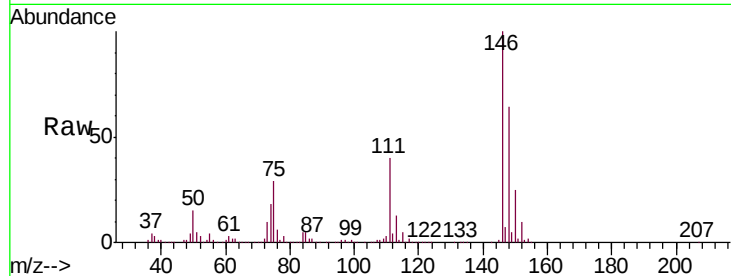
Tgt Ion:146 Resp: 650855

Ion Ratio Lower Upper

146 100

111 40.3 31.9 47.9

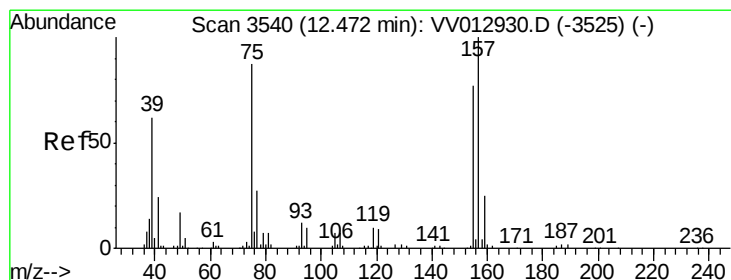
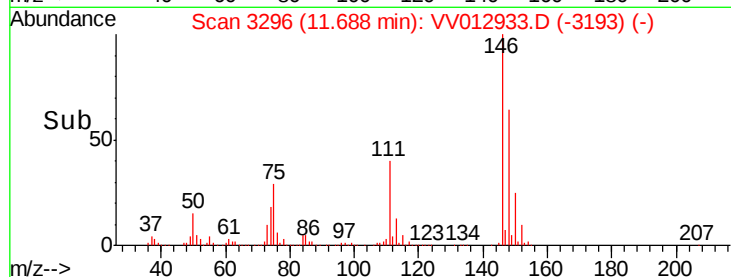
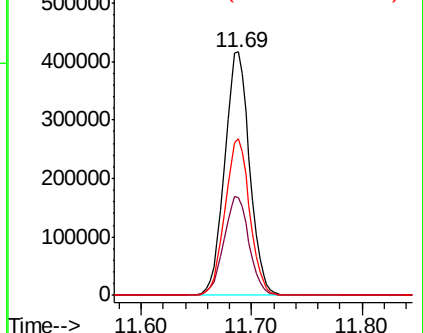
148 64.1 51.0 76.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 26.635 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

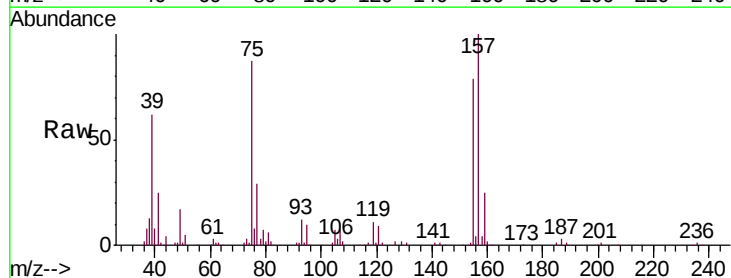
Tgt Ion: 75 Resp: 57933

Ion Ratio Lower Upper

75 100

157 114.4 91.7 137.5

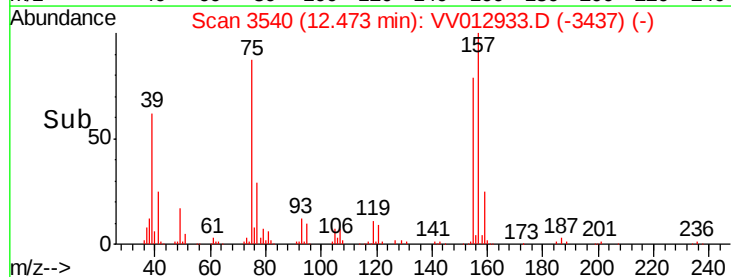
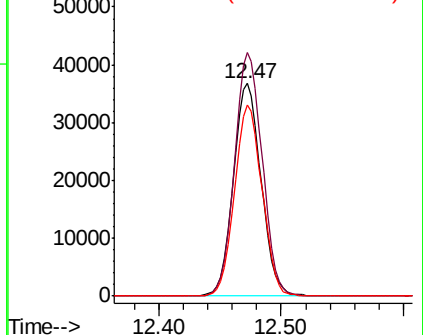
155 89.9 70.8 106.2

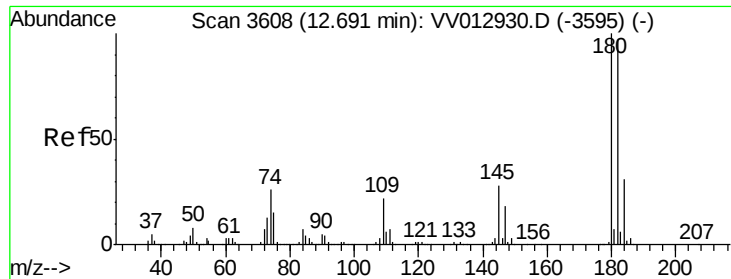


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

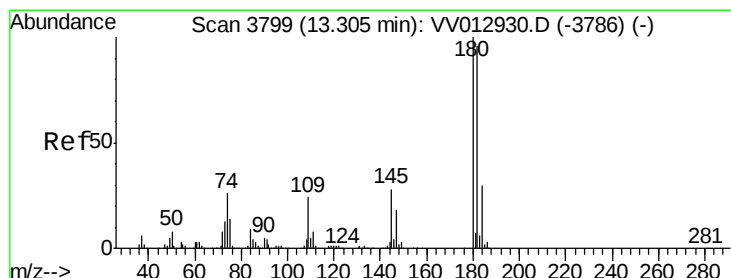
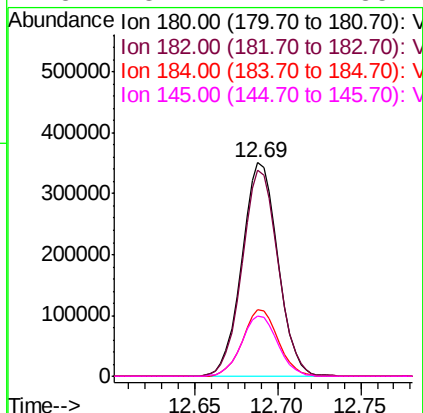
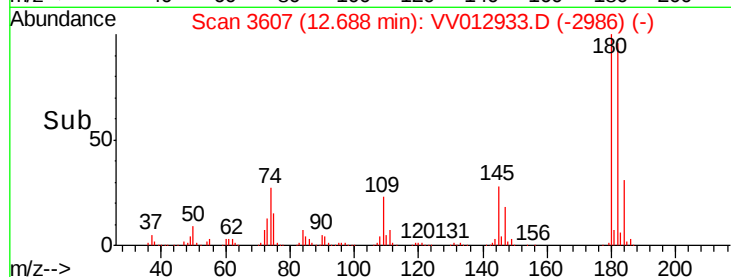
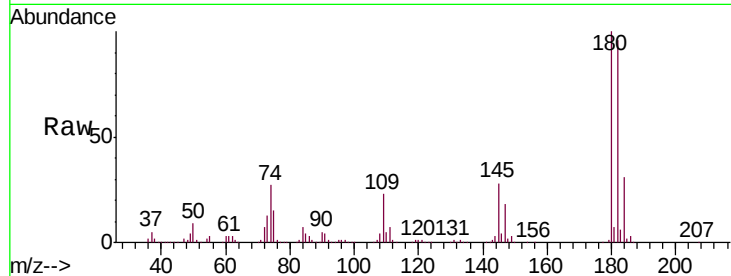




#67
 1,3,5-Trichlorobenzene
 Concen: 26.363 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV012933.D
 Acq: 23 Sep 2019 12:39

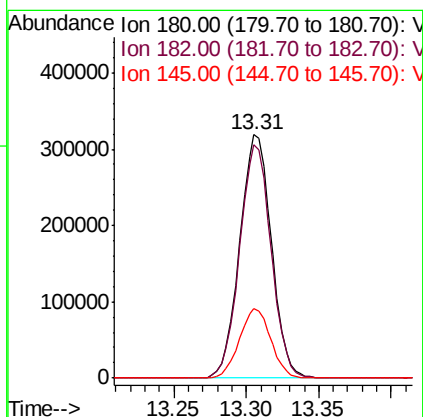
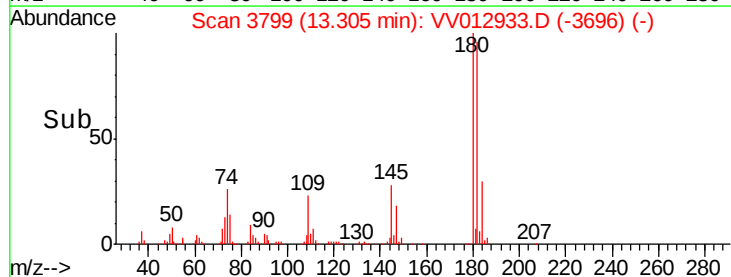
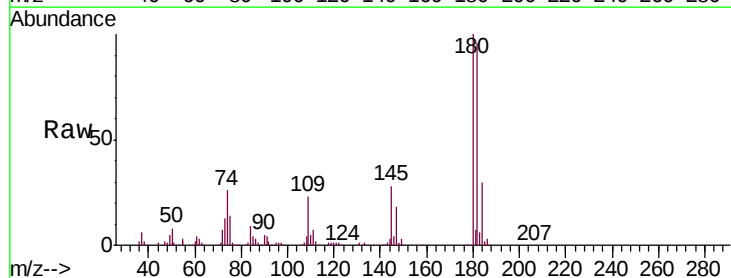
Instrument :
 MSVOA_V
 ClientSampled :
 BFB61

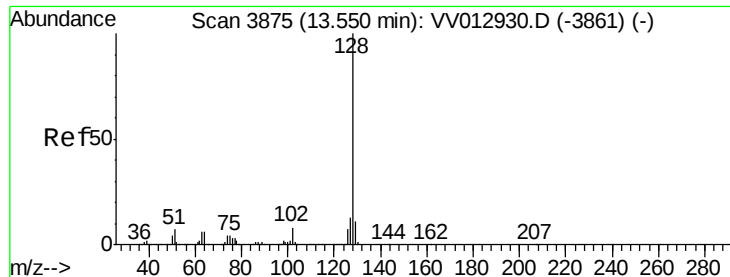
Tgt Ion:	180	Resp:	530403
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.4	114.6
184	30.7	24.6	37.0
145	28.4	22.2	33.4



#68
 1,2,4-trichlorobenzene
 Concen: 27.497 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV012933.D
 Acq: 23 Sep 2019 12:39

Tgt Ion:	180	Resp:	483765
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.8	115.2
145	28.5	22.6	34.0





#69

Naphthalene

Concen: 30.871 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

Instrument :

MSVOA_V

ClientSampleId :

BFB61

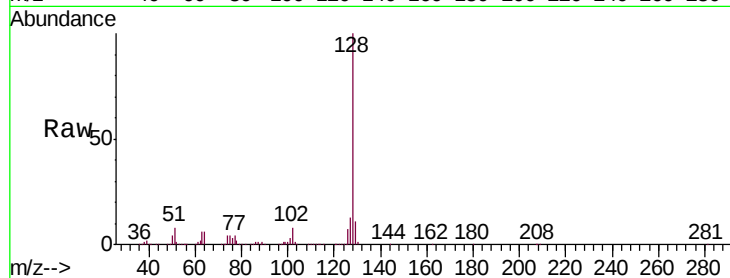
Tgt Ion:128 Resp: 1092398

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

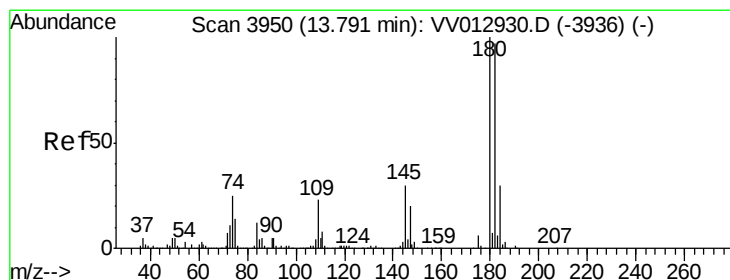
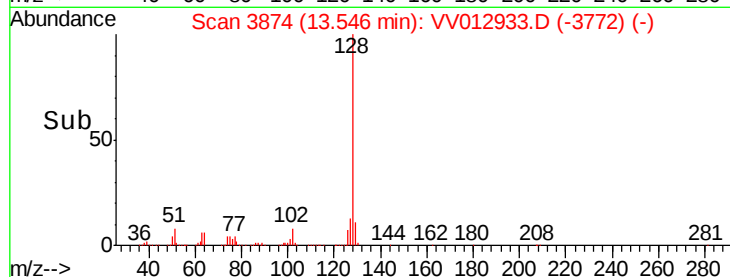
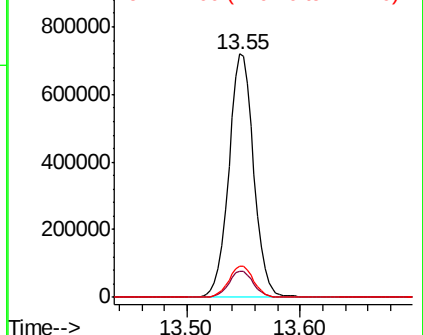
127 13.0 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 28.366 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012933.D

Acq: 23 Sep 2019 12:39

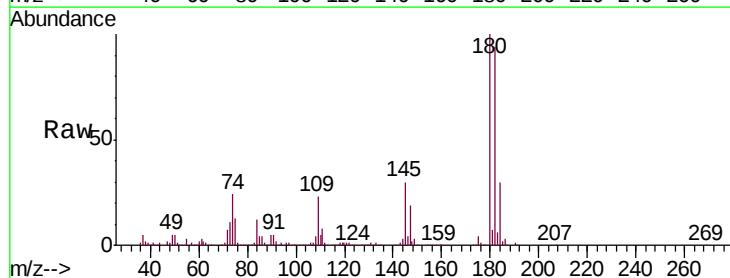
Tgt Ion:180 Resp: 479815

Ion Ratio Lower Upper

180 100

182 95.5 77.4 116.2

145 30.5 23.9 35.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

