

Data File : VV012934.D
Acq On : 23 Sep 2019 13:07
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

Quant Time: Sep 24 07:37:45 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	776638	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	777794	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	423075	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	287650	23.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.48%
7) Chloroethane-d5	1.58	69	213920	21.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.84%
10) 1,1-Dichloroethene-d2	2.13	63	476486	23.78	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.12%
20) 2-Butanone-d5	3.94	46	243406	58.50	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.00%
24) Chloroform-d	4.40	84	529269	24.81	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.24%
26) 1,2-Dichloroethane-d4	5.08	65	312494	25.20	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.80%
29) Benzene-d6	5.10	84	1090107	25.10	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.40%
33) 1,2-Dichloropropane-d6	6.12	67	339922	24.97	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.88%
37) Toluene-d8	7.36	98	1021876	25.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.68%
38) trans-1,3-Dichloropropene-	7.66	79	151487	26.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	105.12%
39) 2-Hexanone-d5	8.13	63	168010	61.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	122.68%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	335585	25.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.84%
61) 1,2-Dichlorobenzene-d4	11.67	152	407245	24.78	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.12%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	234950	27.470	ug/L	98
3) Chloromethane	1.25	50	285560	25.566	ug/L	98
5) Vinyl chloride	1.32	62	281497	25.527	ug/L	99
6) Bromomethane	1.54	94	173904	25.262	ug/L	100
8) Chloroethane	1.60	64	153474	22.648	ug/L	98
9) Trichlorofluoromethane	1.77	101	364243	24.421	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	224388	23.539	ug/L	99
12) 1,1-Dichloroethene	2.14	96	215007	24.490	ug/L	94
13) Acetone	2.20	43	218010	49.298	ug/L	99
14) Carbon disulfide	2.32	76	700009	24.961	ug/L	100
15) Methyl Acetate	2.46	43	191165	27.871	ug/L	98
16) Methylene chloride	2.53	84	285264	24.574	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	685272	26.602	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	259761	24.997	ug/L	99
19) 1,1-Dichloroethane	3.23	63	475346	25.066	ug/L	99
21) 2-Butanone	4.02	43	273161	53.077	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	292241	25.696	ug/L	97

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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	4.30	128	141932	25.265	ug/L	99
25) Chloroform	4.42	83	491080	24.698	ug/L	100
27) 1,2-Dichloroethane	5.18	62	356482	25.366	ug/L	100
30) Cyclohexane	4.72	56	418652	25.089	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	376058	24.429	ug/L	99
32) Carbon tetrachloride	4.87	117	331624	23.759	ug/L	98
34) Benzene	5.14	78	1112590	25.698	ug/L	100
35) Trichloroethene	5.96	95	290292	24.069	ug/L	99
36) Methylcyclohexane	6.17	83	456530	24.657	ug/L	100
40) 1,2-Dichloropropane	6.22	63	288445	25.619	ug/L	100
41) Bromodichloromethane	6.55	83	366157	25.390	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	437284	26.432	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	532554	57.572	ug/L	100
44) Toluene	7.43	91	1186117	25.976	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	363326	26.094	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	245719	25.707	ug/L	99
47) Tetrachloroethene	8.02	164	235384	24.013	ug/L	99
49) 2-Hexanone	8.18	43	415935	59.652	ug/L	97
50) Dibromochloromethane	8.29	129	277113	25.224	ug/L	97
51) 1,2-Dibromoethane	8.39	107	247073	26.378	ug/L	100
52) Chlorobenzene	8.92	112	785853	24.939	ug/L	100
53) Ethylbenzene	9.05	91	1303475	25.926	ug/L	100
54) m,p-Xylene	9.18	106	504687	26.405	ug/L	100
55) o-xylene	9.59	106	482728	26.507	ug/L	100
56) Styrene	9.60	104	878927	27.429	ug/L	100
57) Isopropylbenzene	9.97	105	1259592	26.318	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	310170	26.233	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	256940	26.329	ug/L	99
62) Bromoform	9.77	173	182938	25.481	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	669270	25.700	ug/L	100
64) 1,4-Dichlorobenzene	11.32	146	681596	24.938	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	633240	25.493	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	59515	27.024	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	521028	25.577	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	476478	26.748	ug/L	99
69) Naphthalene	13.55	128	1061397	29.624	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	465695	27.191	ug/L	99

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

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ClientSampleId :
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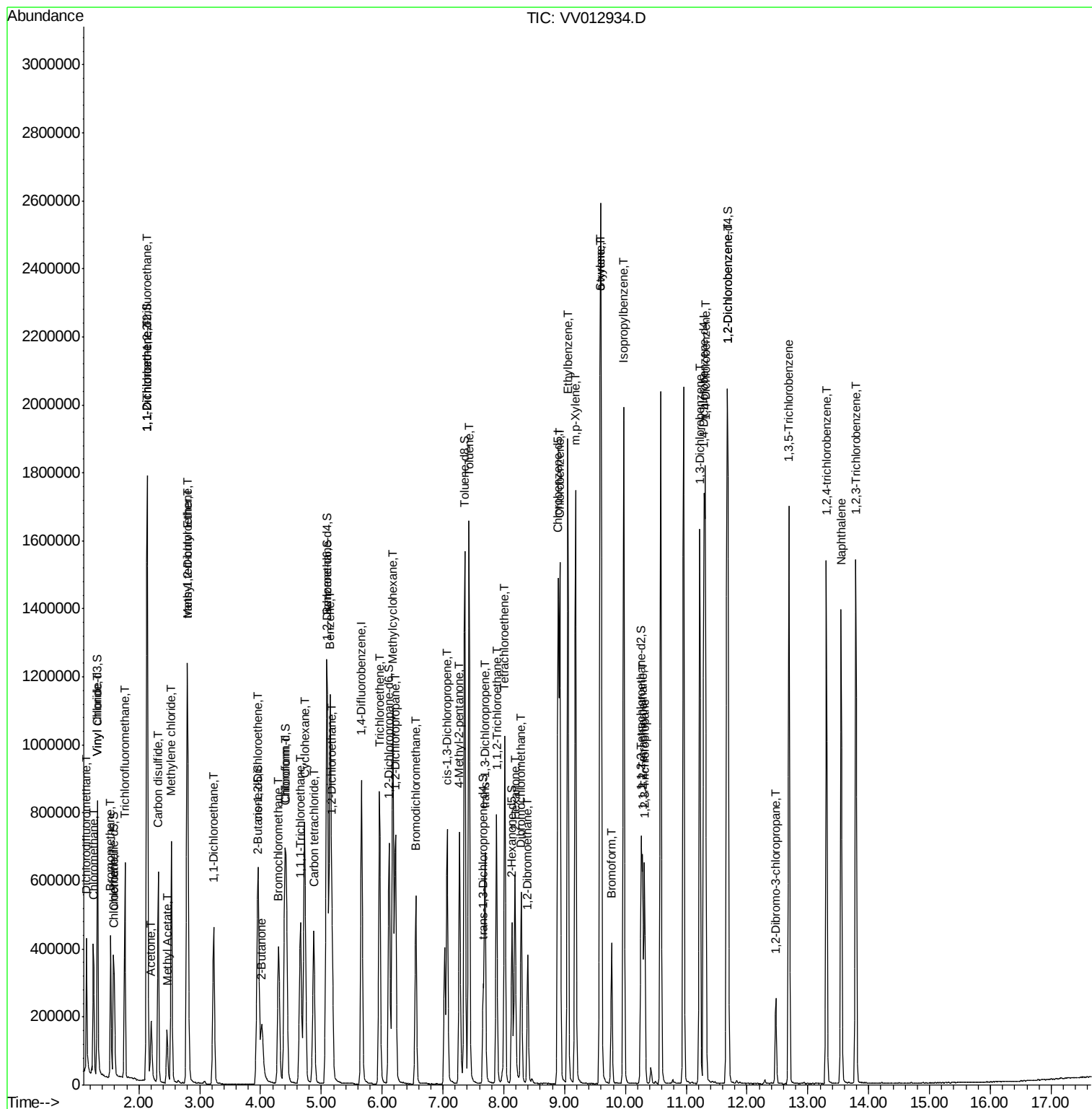
Quant Time: Sep 24 07:37:45 2019

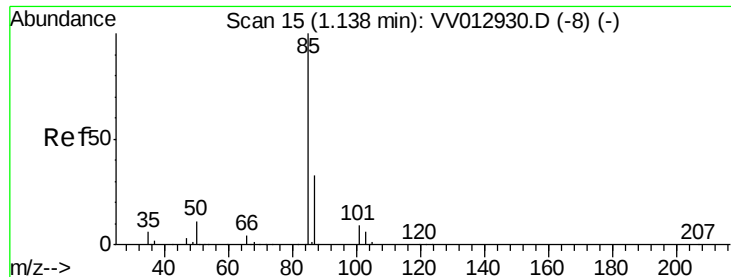
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM092319S.M

Quant Title : VOC Analysis

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

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#2

Dichlorodifluoromethane

Concen: 27.470 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

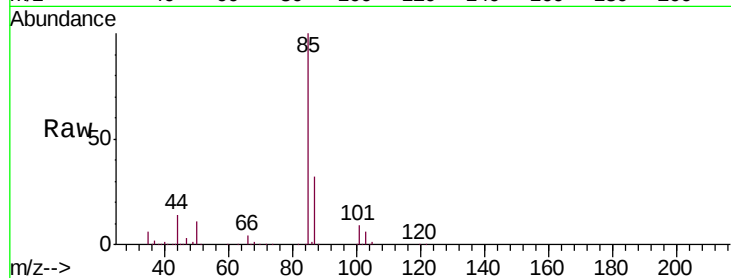
VSTD02567

Tgt Ion: 85 Resp: 234950

Ion Ratio Lower Upper

85 100

87 31.9 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV012930.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012930.D (-8) (-)

1.14

250000

200000

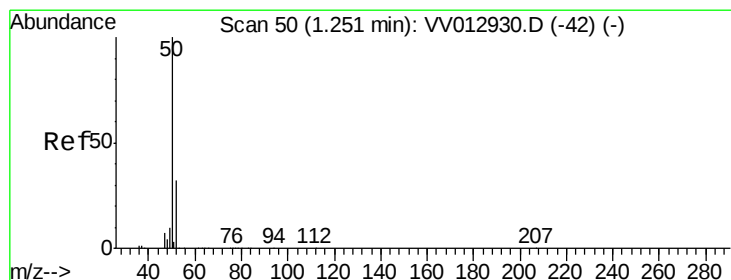
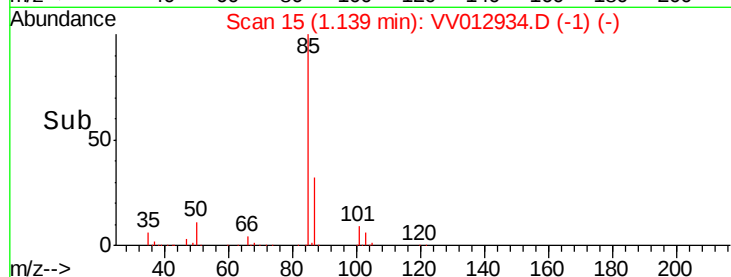
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 25.566 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012934.D

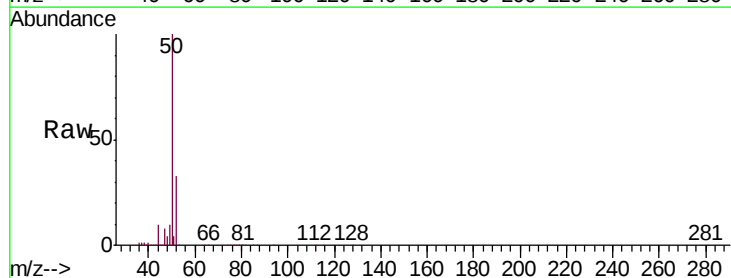
Acq: 23 Sep 2019 13:07

Tgt Ion: 50 Resp: 285560

Ion Ratio Lower Upper

50 100

52 33.3 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV012930.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV012930.D (-42) (-)

1.25

250000

200000

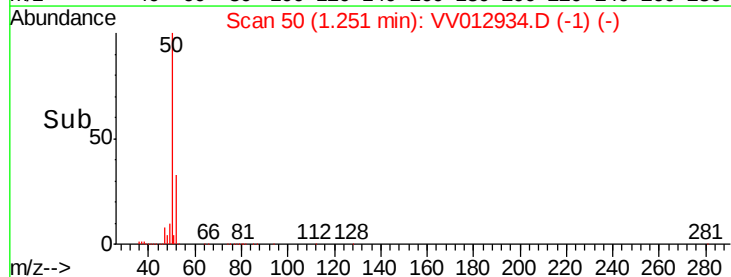
150000

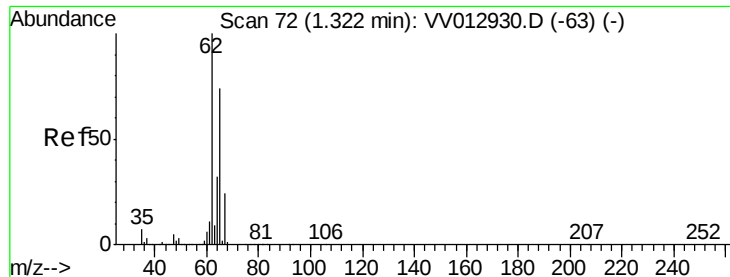
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 25.527 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

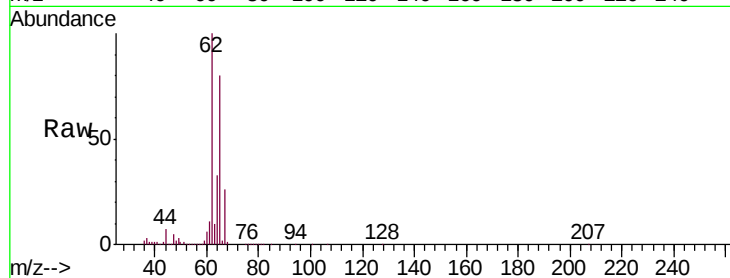
VSTD02567

Tgt Ion: 62 Resp: 281497

Ion Ratio Lower Upper

62 100

64 33.2 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV012930.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV012930.D (-63) (-)

1.32

250000

200000

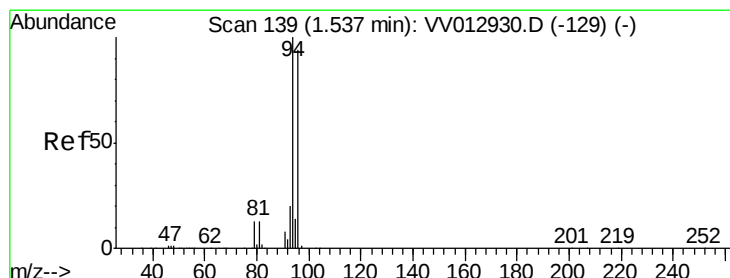
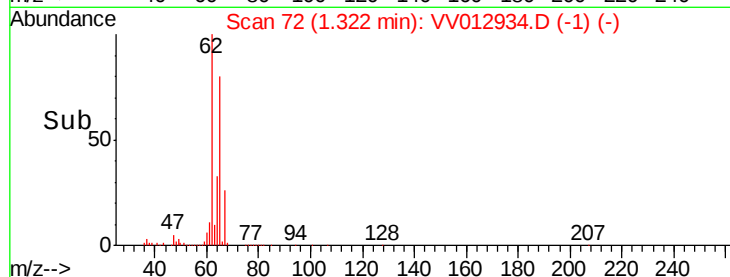
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 25.262 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012934.D

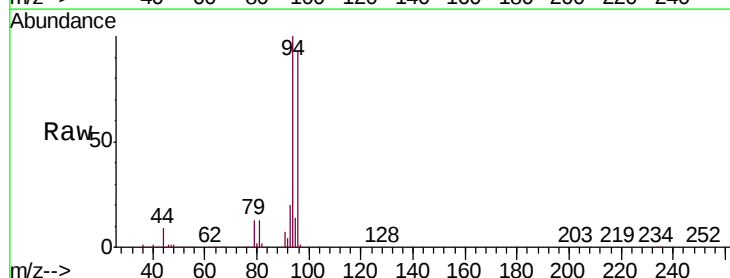
Acq: 23 Sep 2019 13:07

Tgt Ion: 94 Resp: 173904

Ion Ratio Lower Upper

94 100

96 94.0 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV012930.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV012930.D (-129) (-)

1.54

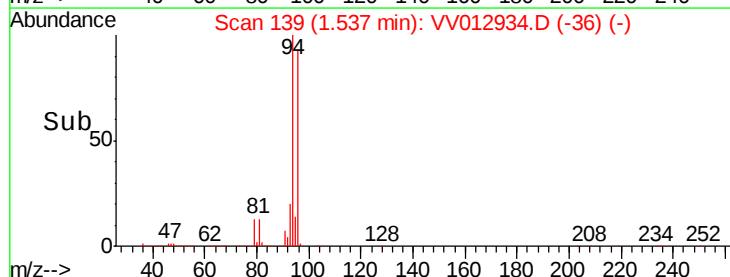
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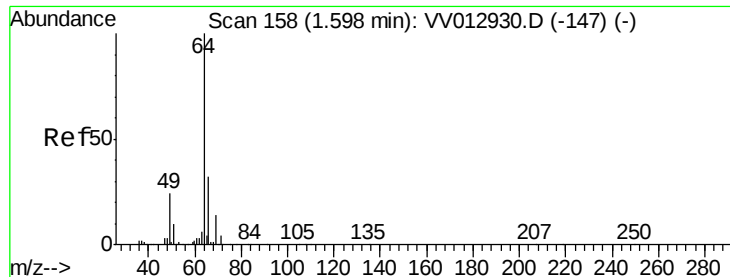
100000

50000

0

Time-->





#8

Chloroethane

Concen: 22.648 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

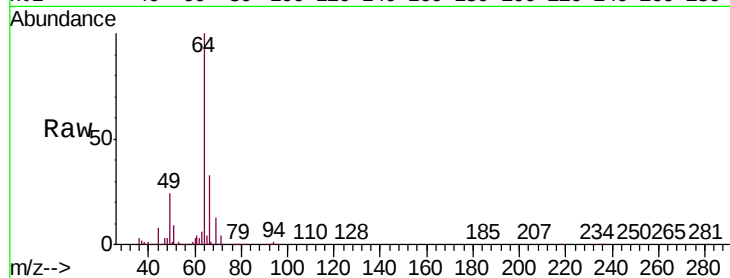
VSTD02567

Tgt Ion: 64 Resp: 153474

Ion Ratio Lower Upper

64 100

66 33.0 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV012930.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV012930.D (-147) (-)

1.60

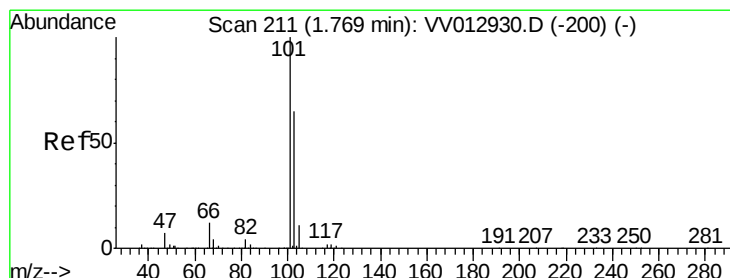
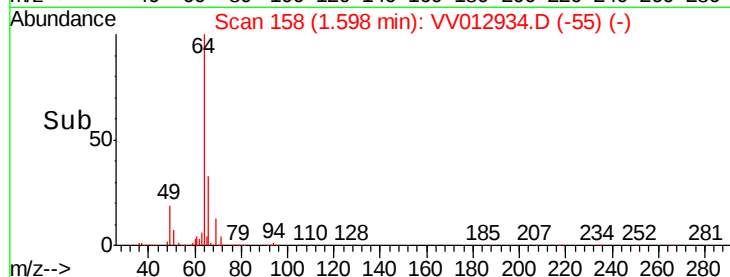
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 24.421 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012934.D

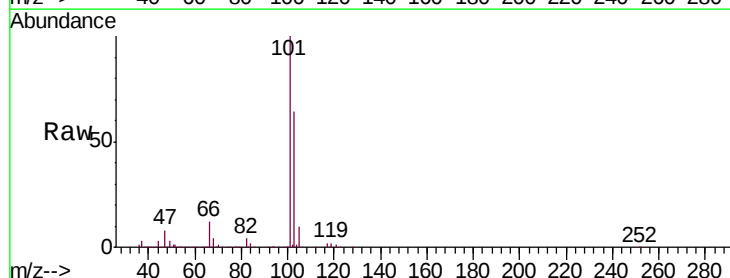
Acq: 23 Sep 2019 13:07

Tgt Ion: 101 Resp: 364243

Ion Ratio Lower Upper

101 100

103 64.6 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV012930.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012930.D (-200) (-)

1.77

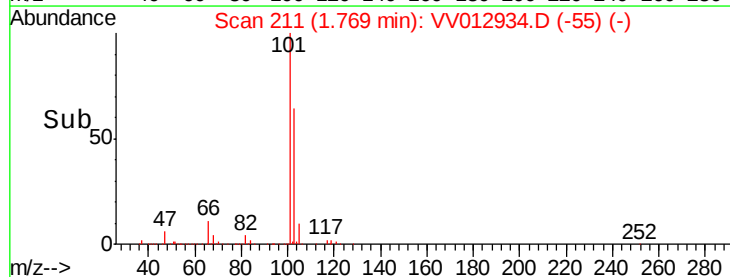
300000

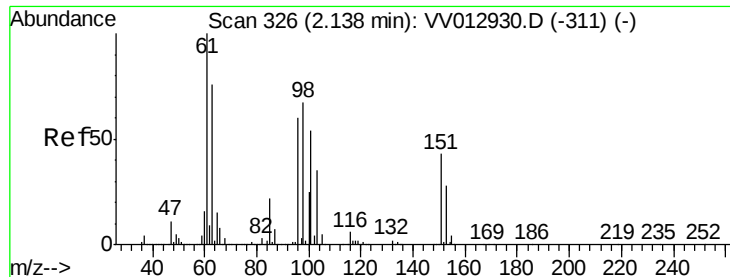
200000

100000

0

Time-->





#11

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

Concen: 23.539 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

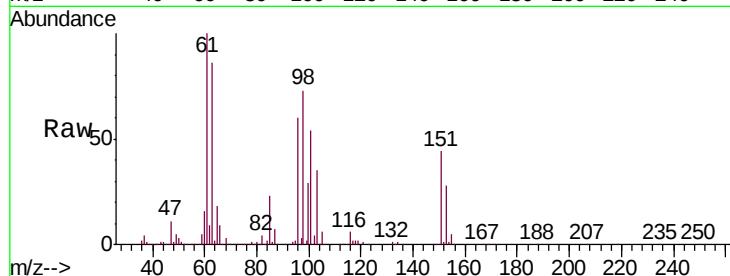
Tgt Ion: 101 Resp: 224388

Ion Ratio Lower Upper

101 100

85 41.6 32.6 49.0

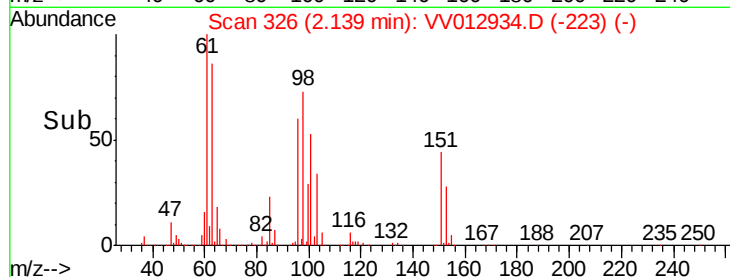
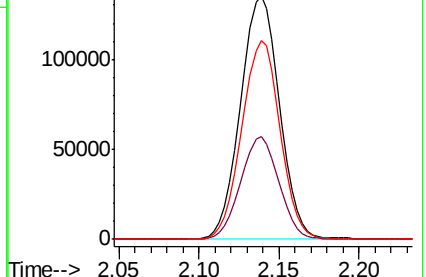
151 80.4 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV012930.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV012930.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV012930.D (-311) (-)



#12

1,1-Dichloroethene

Concen: 24.490 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

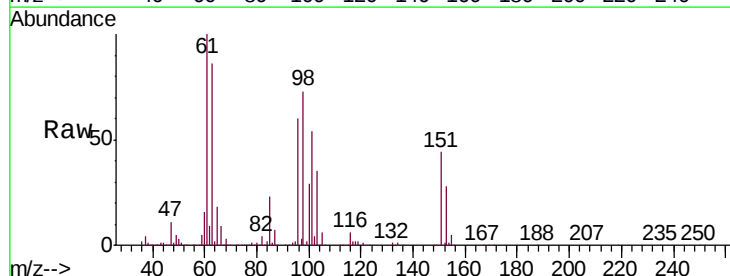
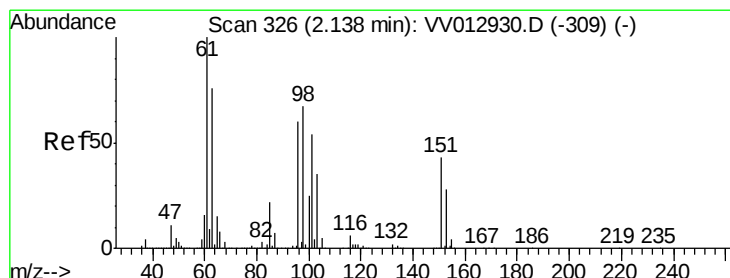
Tgt Ion: 96 Resp: 215007

Ion Ratio Lower Upper

96 100

61 167.6 117.2 217.8

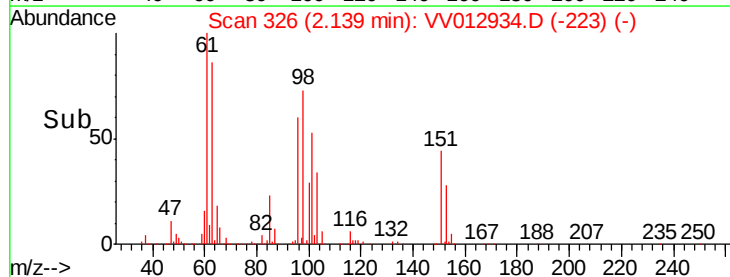
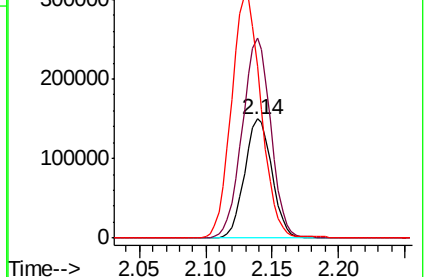
63 144.2 89.6 166.4

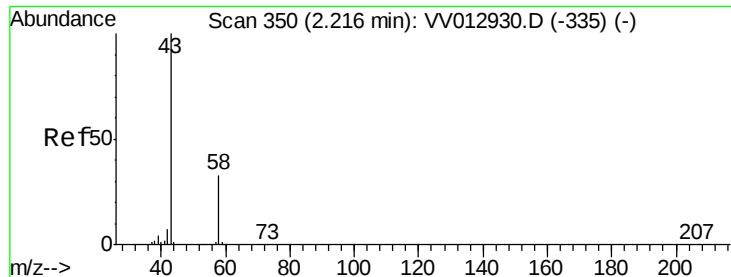


Abundance Ion 96.00 (95.70 to 96.70): VV012930.D (-309) (-)

Ion 61.00 (60.70 to 61.70): VV012930.D (-309) (-)

Ion 63.00 (62.70 to 63.70): VV012930.D (-309) (-)





#13

Acetone

Concen: 49.298 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.02 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

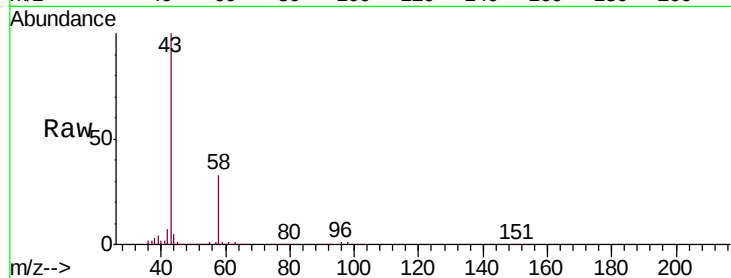
VSTD02567

Tgt Ion: 43 Resp: 218010

Ion Ratio Lower Upper

43 100

58 33.1 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VV012930.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VV012930.D (-335) (-)

2.20

120000

100000

80000

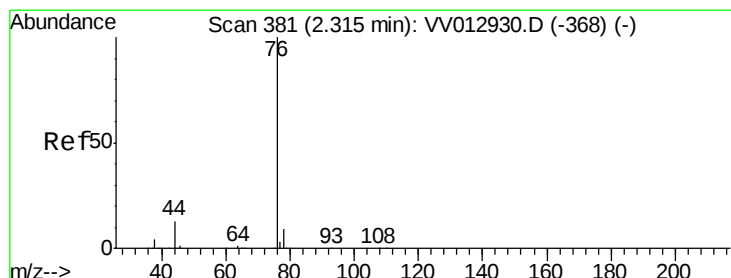
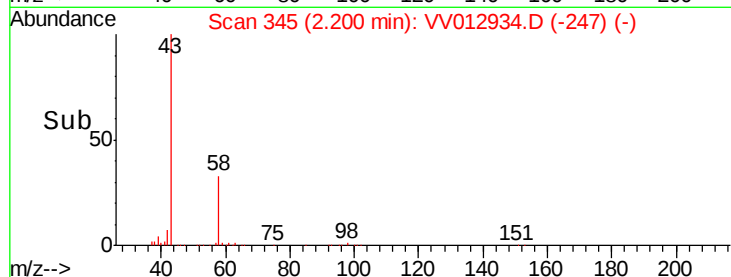
60000

40000

20000

0

Time--> 2.10 2.20 2.30



#14

Carbon disulfide

Concen: 24.961 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012934.D

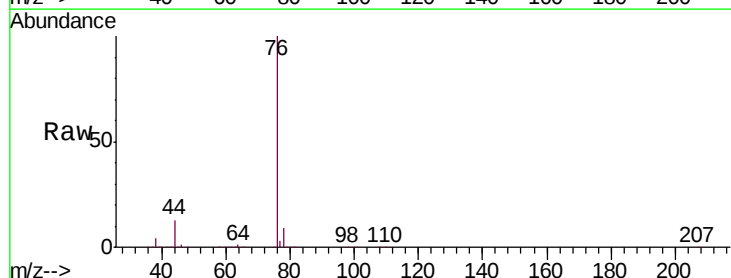
Acq: 23 Sep 2019 13:07

Tgt Ion: 76 Resp: 700009

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV012930.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV012930.D (-368) (-)

2.32

500000

400000

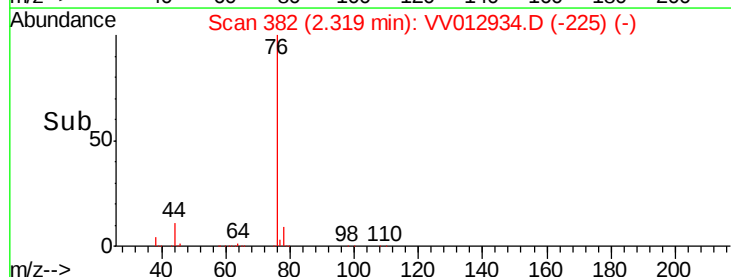
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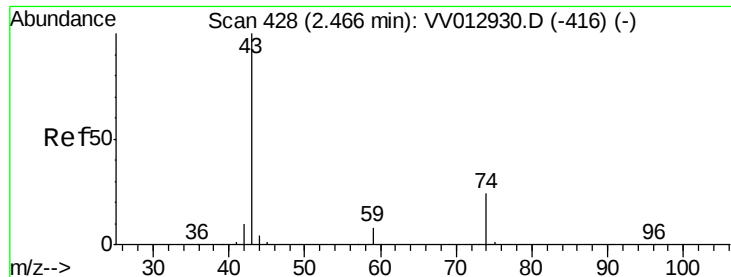
200000

100000

0

Time--> 2.20 2.30 2.40 2.50

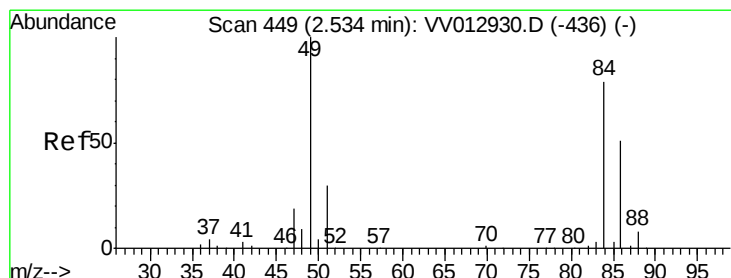
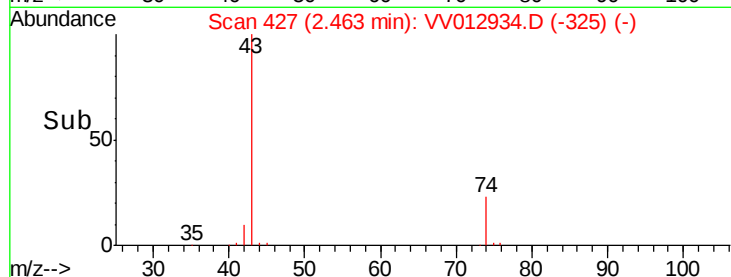
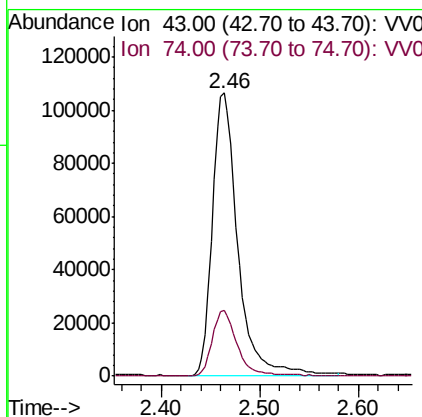
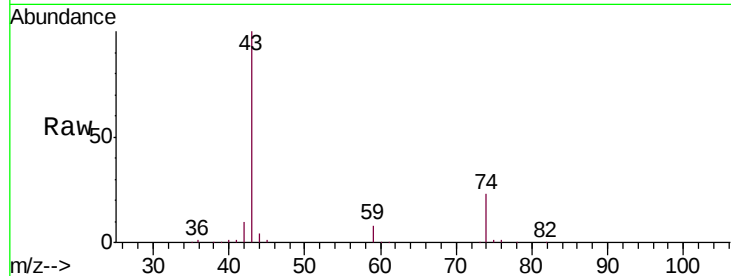




#15
Methyl Acetate
Concen: 27.871 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

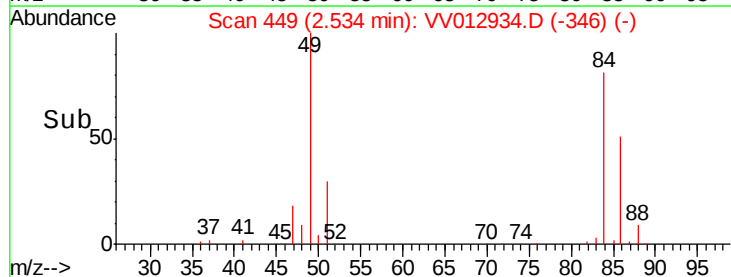
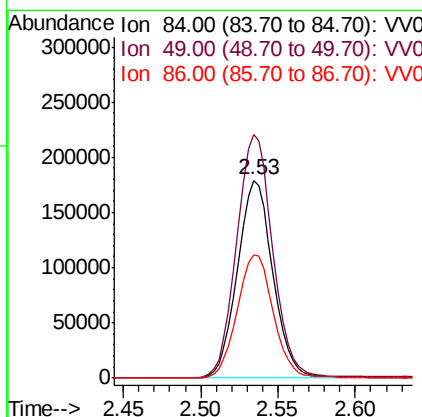
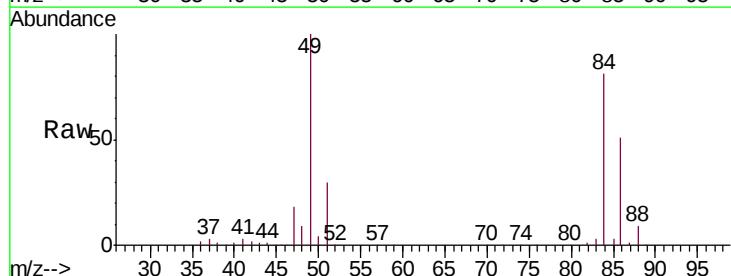
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

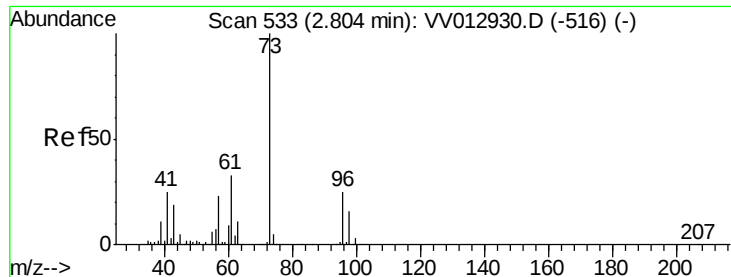
Tgt Ion: 43 Resp: 191165
Ion Ratio Lower Upper
43 100
74 22.5 18.8 28.2



#16
Methylene chloride
Concen: 24.574 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

Tgt Ion: 84 Resp: 285264
Ion Ratio Lower Upper
84 100
49 123.3 88.3 164.1
86 62.6 44.9 83.3





#17

Methyl tert-butyl Ether

Concen: 26.602 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

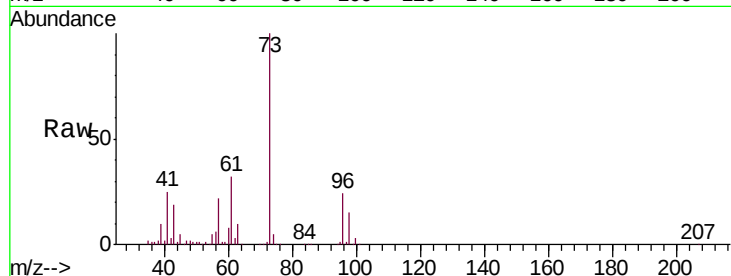
Tgt Ion: 73 Resp: 685272

Ion Ratio Lower Upper

73 100

43 18.7 15.0 22.6

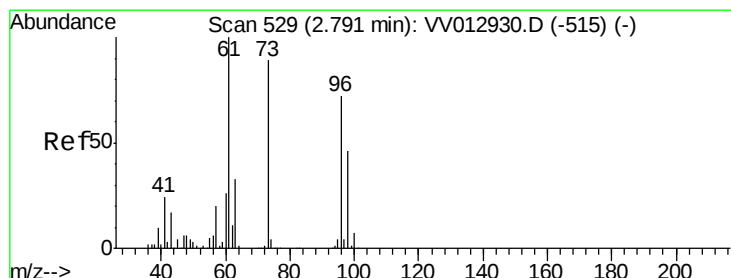
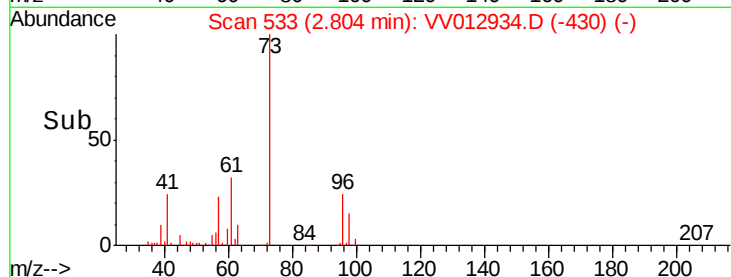
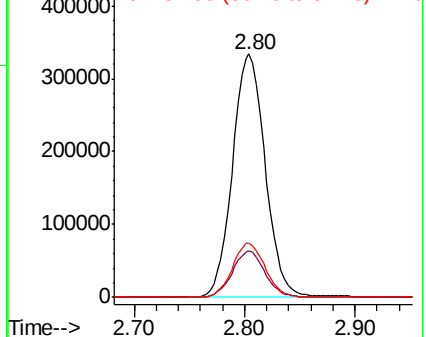
57 22.5 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VV012930.D (-516) (-)

Ion 43.00 (42.70 to 43.70): VV012930.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VV012930.D (-516) (-)



#18

trans-1,2-Dichloroethene

Concen: 24.997 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

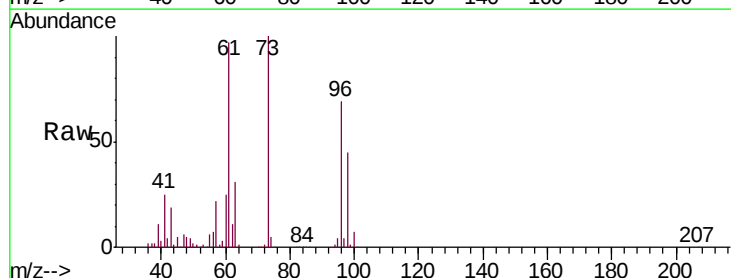
Tgt Ion: 96 Resp: 259761

Ion Ratio Lower Upper

96 100

61 139.5 96.8 179.8

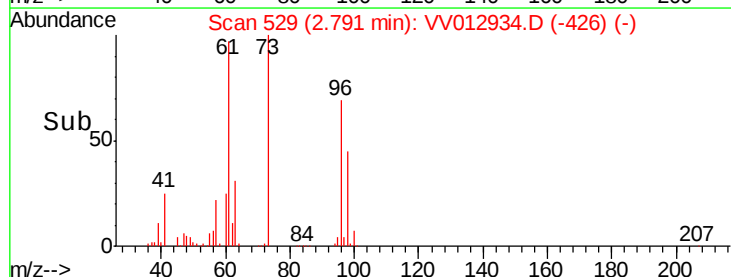
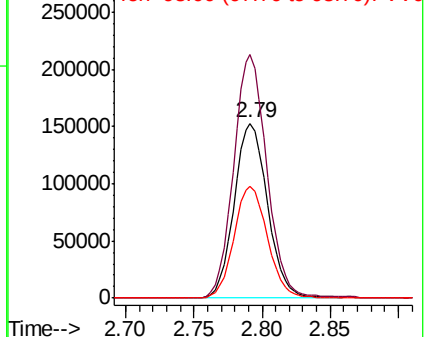
98 64.4 44.8 83.2

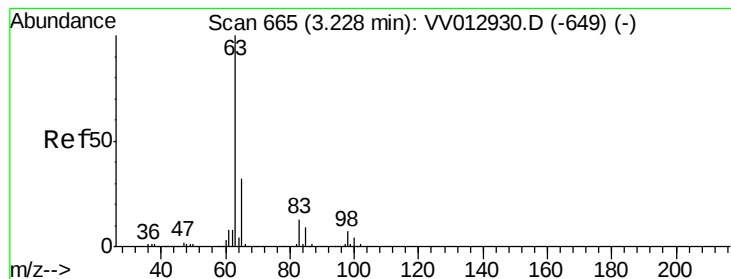


Abundance Ion 96.00 (95.70 to 96.70): VV012930.D (-515) (-)

Ion 61.00 (60.70 to 61.70): VV012930.D (-515) (-)

Ion 98.00 (97.70 to 98.70): VV012930.D (-515) (-)





#19

1,1-Dichloroethane

Concen: 25.066 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

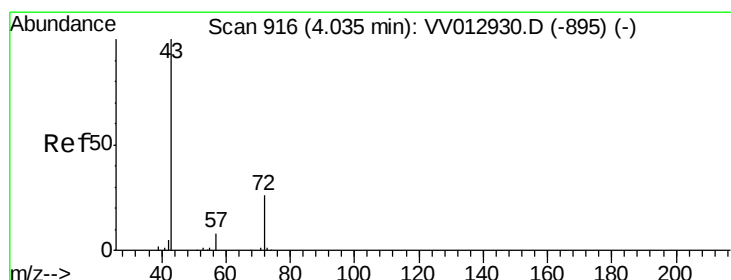
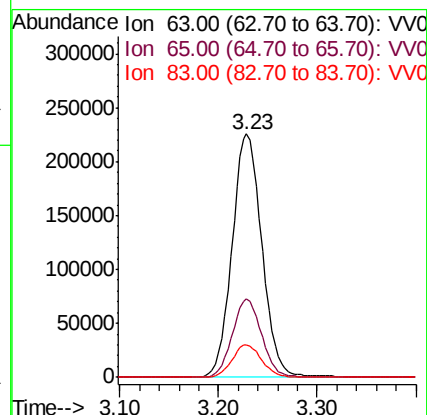
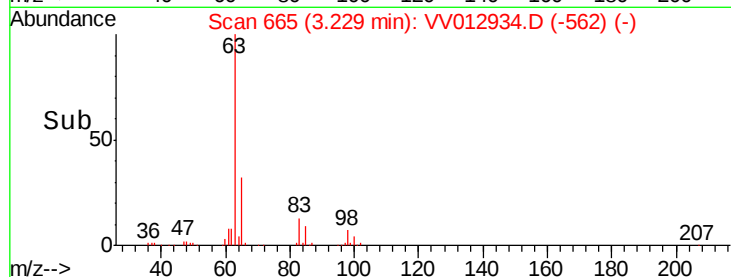
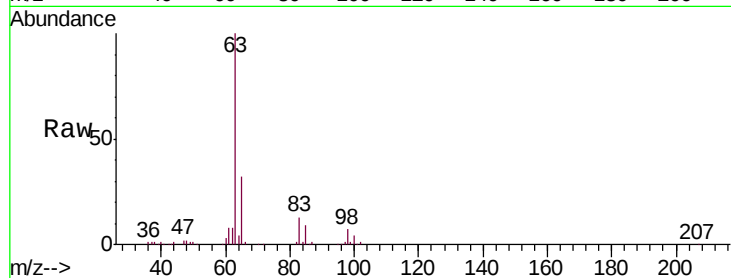
Tgt Ion: 63 Resp: 475346

Ion Ratio Lower Upper

63 100

65 32.0 22.0 41.0

83 13.3 9.2 17.0



#21

2-Butanone

Concen: 53.077 ug/L

RT: 4.02 min Scan# 912

Delta R.T. -0.01 min

Lab File: VV012934.D

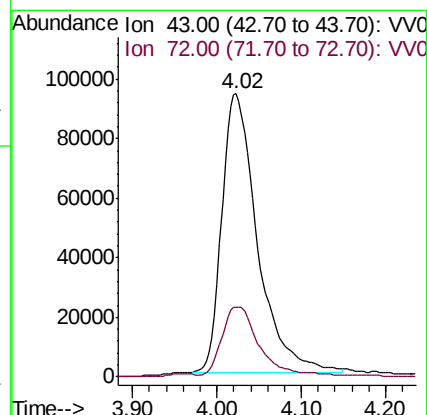
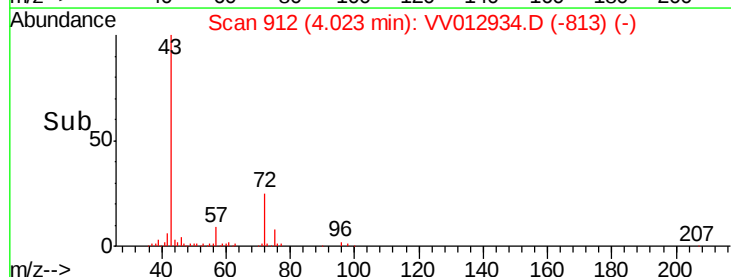
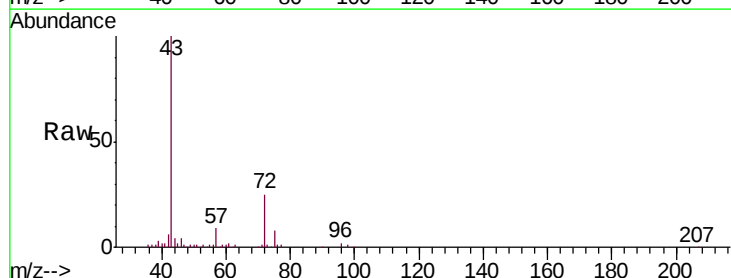
Acq: 23 Sep 2019 13:07

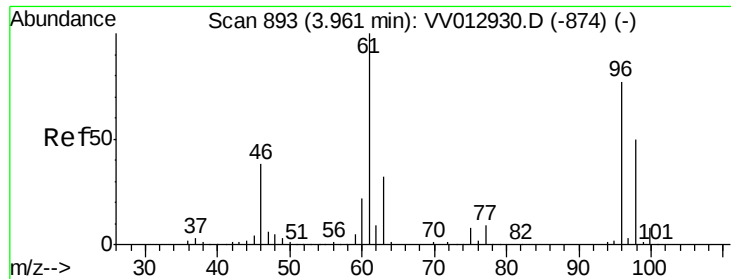
Tgt Ion: 43 Resp: 273161

Ion Ratio Lower Upper

43 100

72 24.5 11.9 35.9



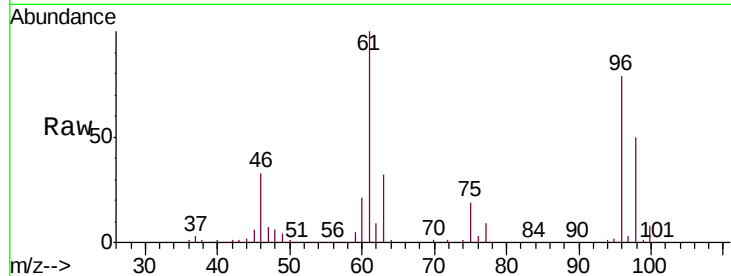


#22

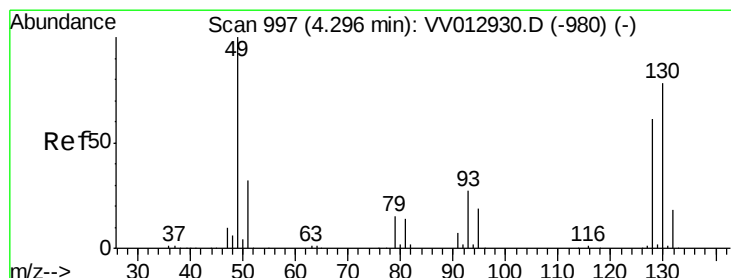
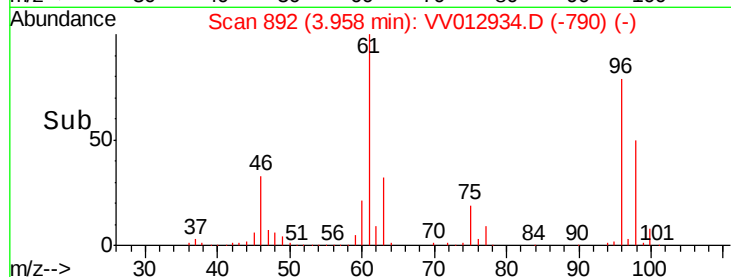
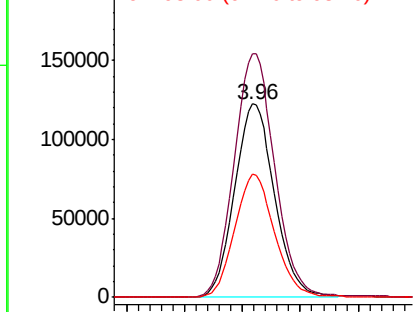
cis-1,2-Dichloroethene
 Concen: 25.696 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

Tgt Ion: 96 Resp: 292241
 Ion Ratio Lower Upper
 96 100
 61 126.1 90.9 168.7
 98 63.6 45.6 84.6



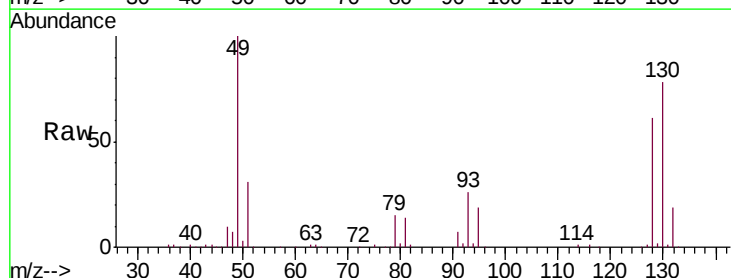
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



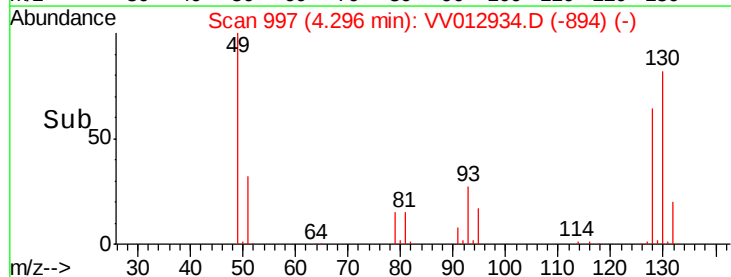
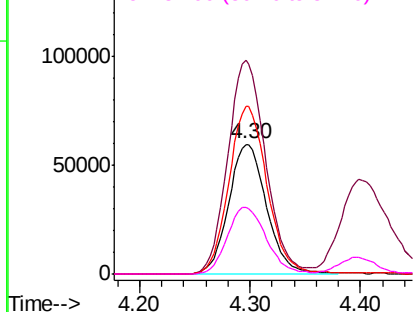
#23

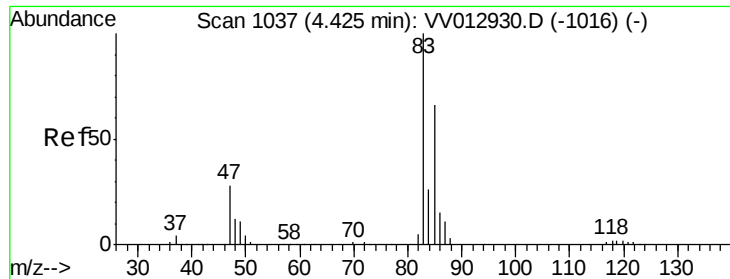
Bromochloromethane
 Concen: 25.265 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

Tgt Ion: 128 Resp: 141932
 Ion Ratio Lower Upper
 128 100
 49 164.5 114.4 212.6
 130 129.0 88.5 164.4
 51 51.7 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

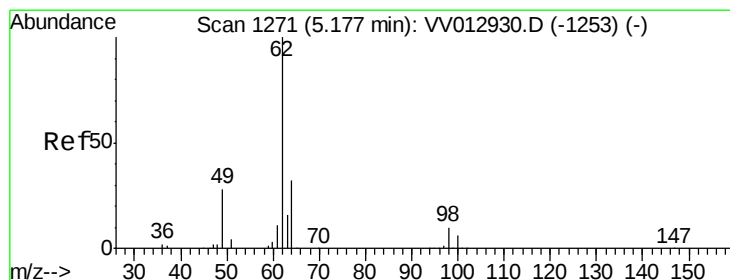
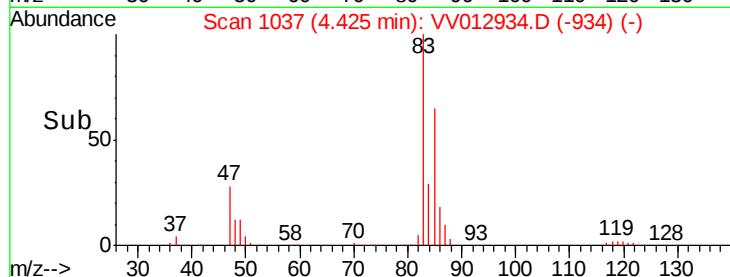
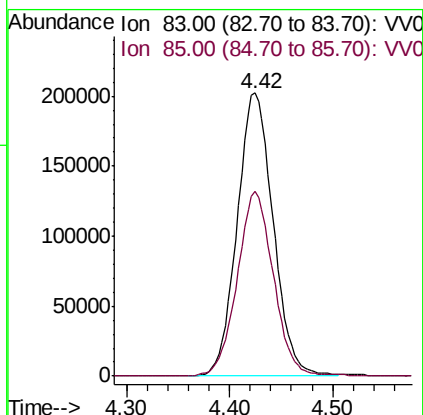
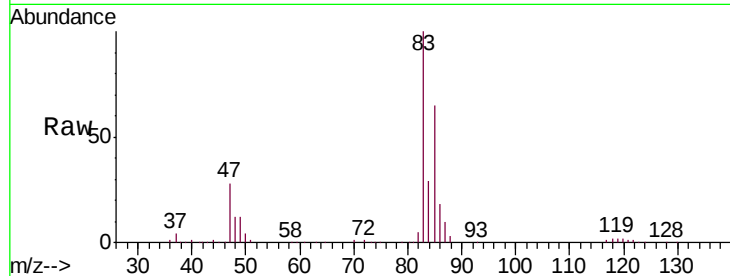




#25
Chloroform
Concen: 24.698 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

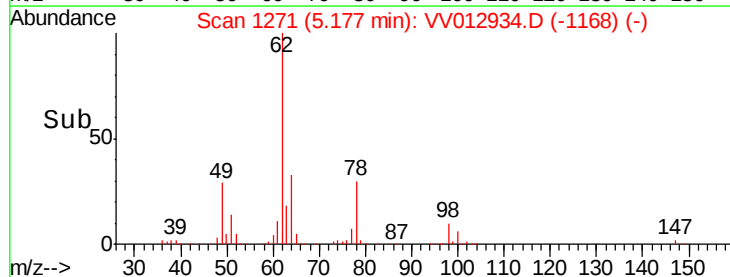
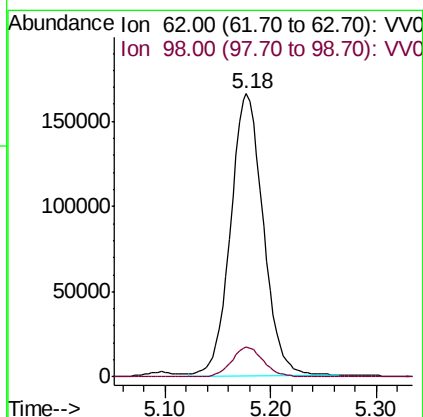
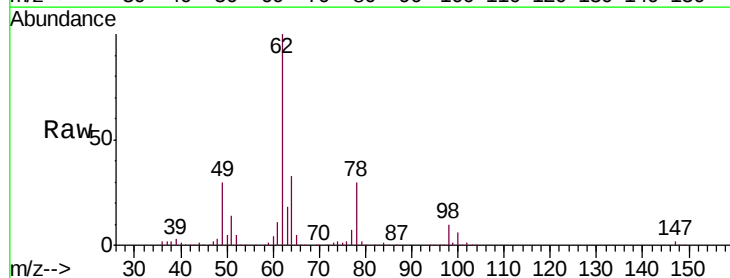
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

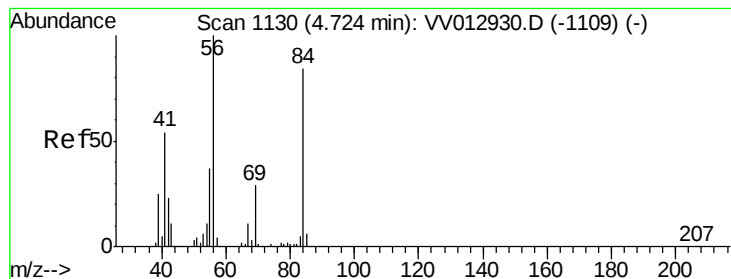
Tgt Ion: 83 Resp: 491080
Ion Ratio Lower Upper
83 100
85 65.4 45.8 85.0



#27
1,2-Dichloroethane
Concen: 25.366 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

Tgt Ion: 62 Resp: 356482
Ion Ratio Lower Upper
62 100
98 10.4 8.2 12.4





#30

Cyclohexane

Concen: 25.089 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

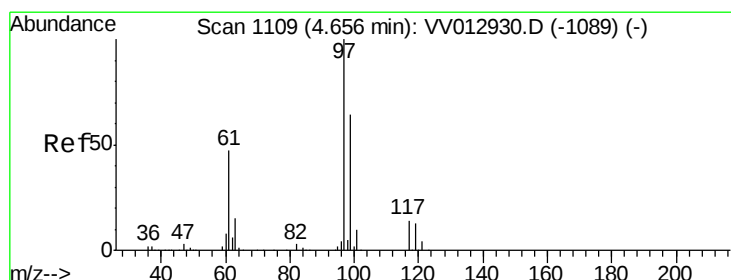
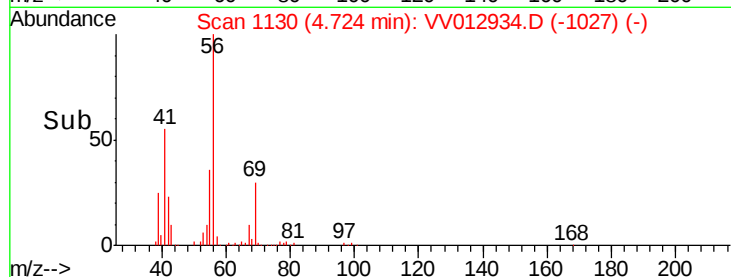
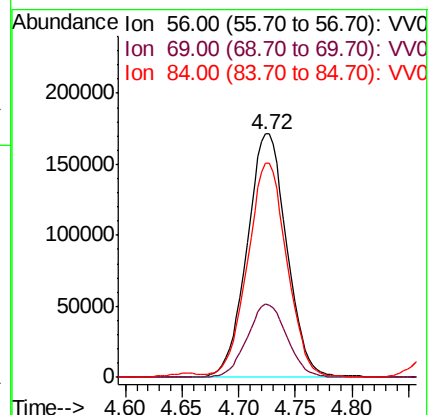
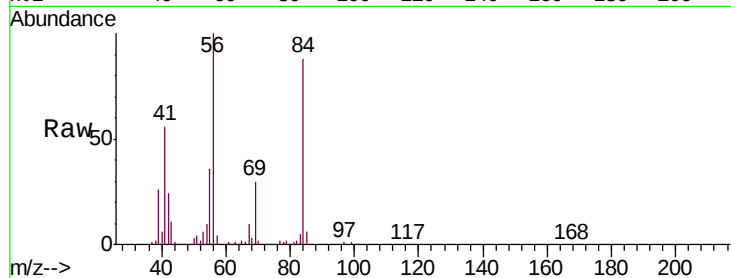
Tgt Ion: 56 Resp: 418652

Ion Ratio Lower Upper

56 100

69 30.3 23.8 35.8

84 86.6 68.4 102.6



#31

1,1,1-Trichloroethane

Concen: 24.429 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

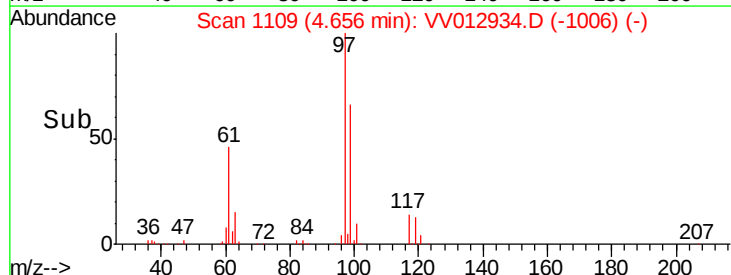
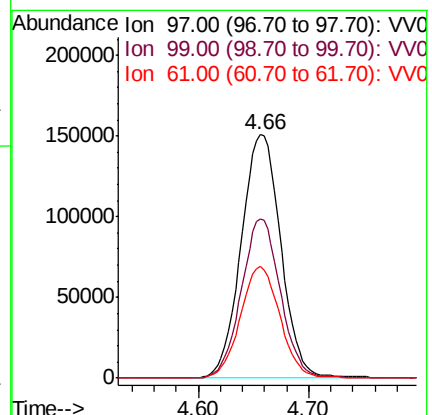
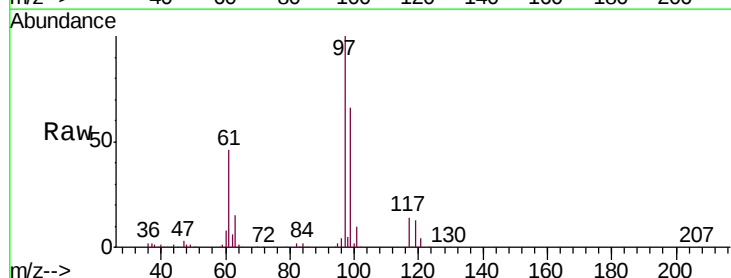
Tgt Ion: 97 Resp: 376058

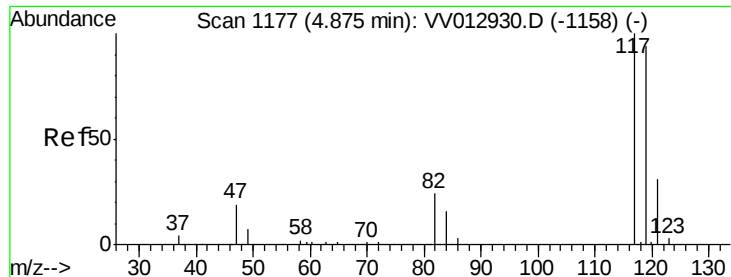
Ion Ratio Lower Upper

97 100

99 64.2 51.7 77.5

61 45.6 37.8 56.8



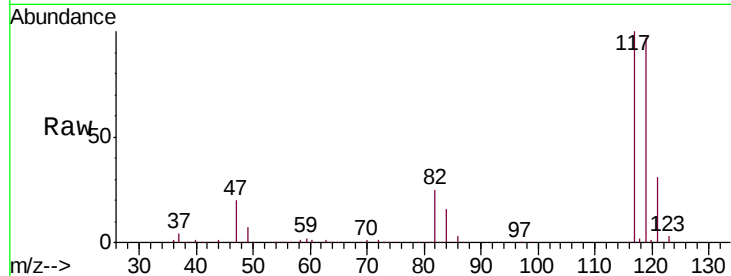


#32

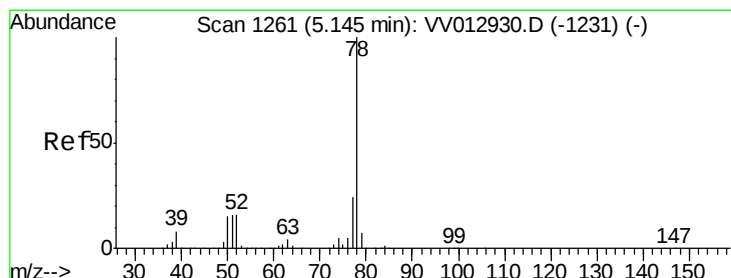
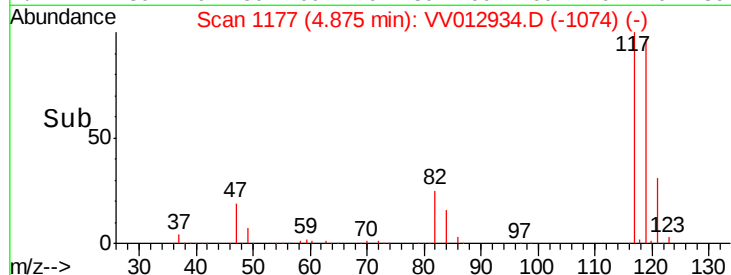
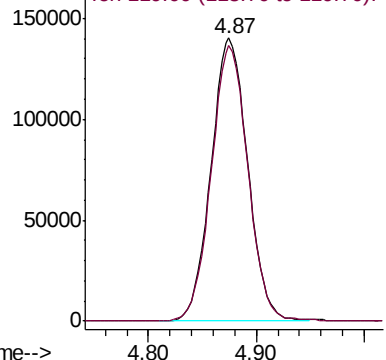
Carbon tetrachloride
Concen: 23.759 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

Tgt Ion:117 Resp: 331624
Ion Ratio Lower Upper
117 100
119 97.2 76.0 114.0



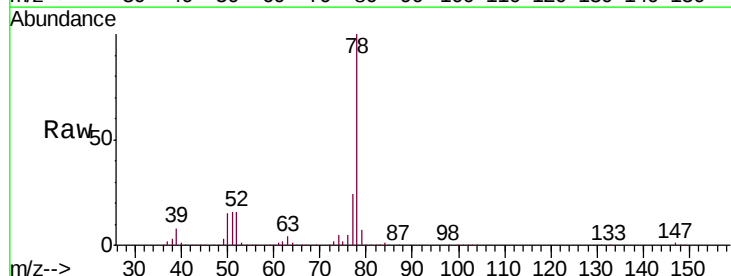
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



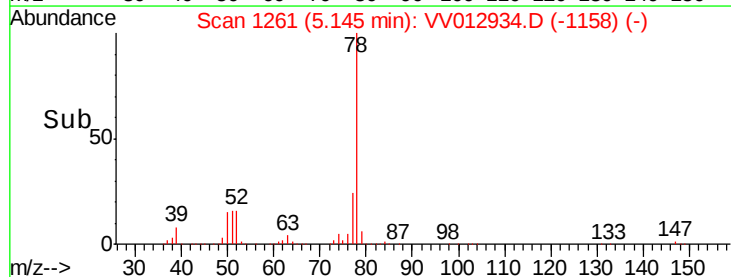
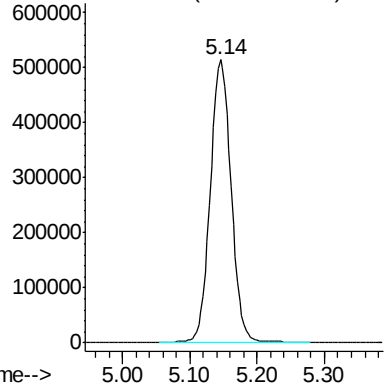
#34

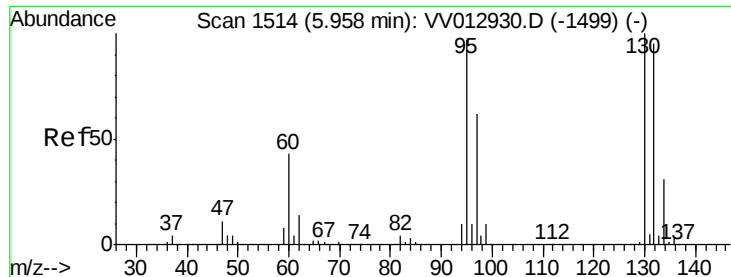
Benzene
Concen: 25.698 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

Tgt Ion: 78 Resp: 1112590



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.069 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

Tgt Ion: 95 Resp: 290292

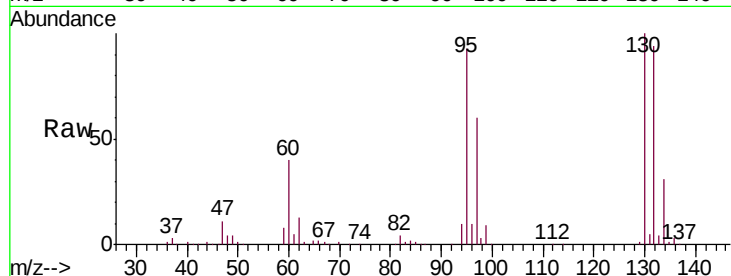
Ion Ratio Lower Upper

95 100

97 64.8 44.7 82.9

132 101.6 70.1 130.1

130 105.2 73.3 136.1

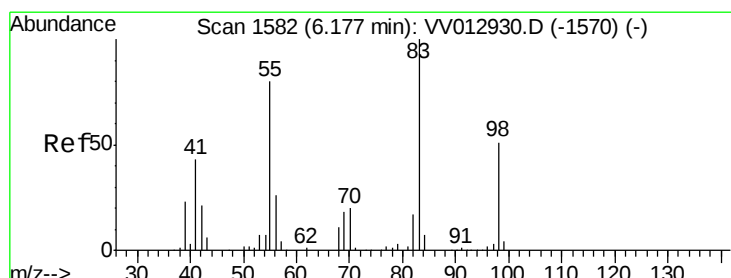
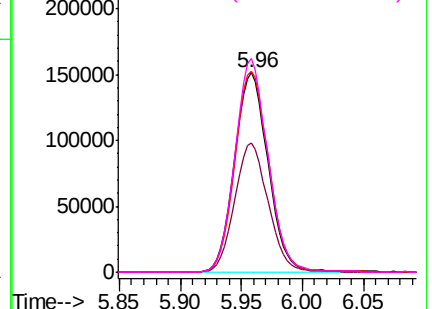
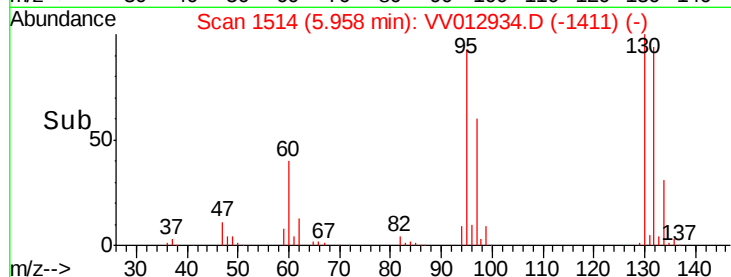


Abundance Ion 95.00 (94.70 to 95.70): VV012934.D (-1499) (-)

Ion 97.00 (96.70 to 97.70): VV012934.D (-1499) (-)

Ion 132.00 (131.70 to 132.70): VV012934.D (-1499) (-)

Ion 130.00 (129.70 to 130.70): VV012934.D (-1499) (-)



#36

Methylcyclohexane

Concen: 24.657 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

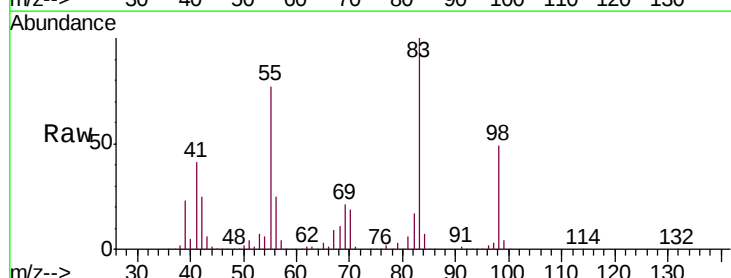
Tgt Ion: 83 Resp: 456530

Ion Ratio Lower Upper

83 100

55 77.7 61.8 92.8

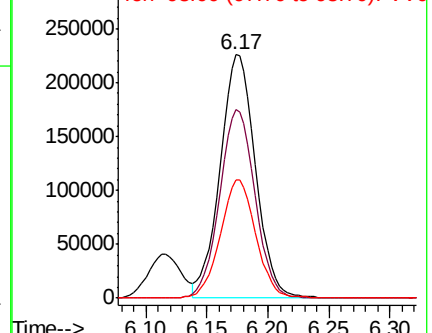
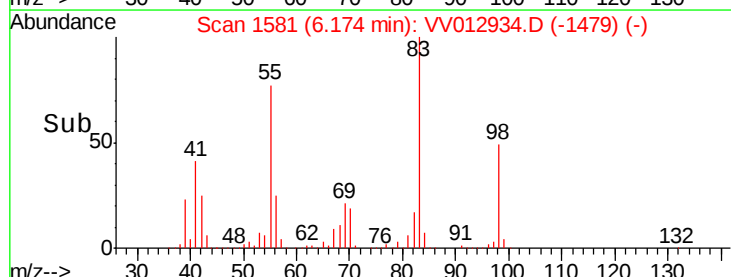
98 49.3 39.3 58.9

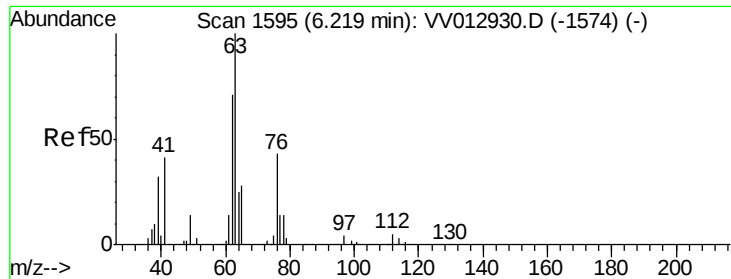


Abundance Ion 83.00 (82.70 to 83.70): VV012934.D (-1479) (-)

Ion 55.00 (54.70 to 55.70): VV012934.D (-1479) (-)

Ion 98.00 (97.70 to 98.70): VV012934.D (-1479) (-)

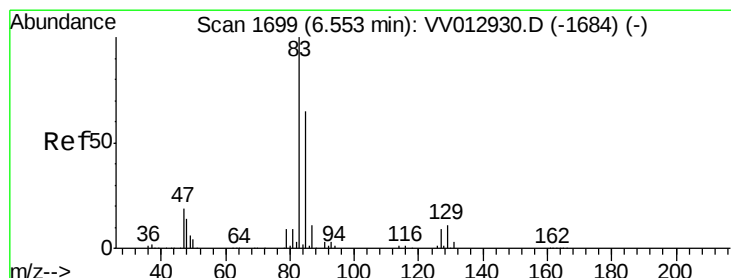
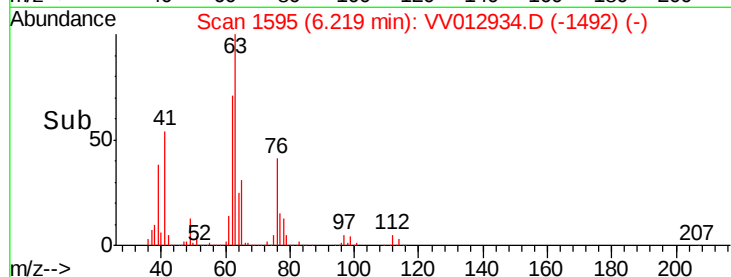
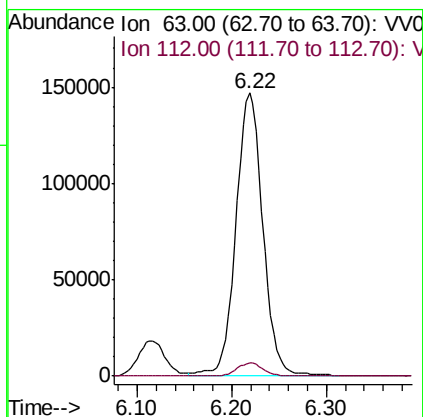
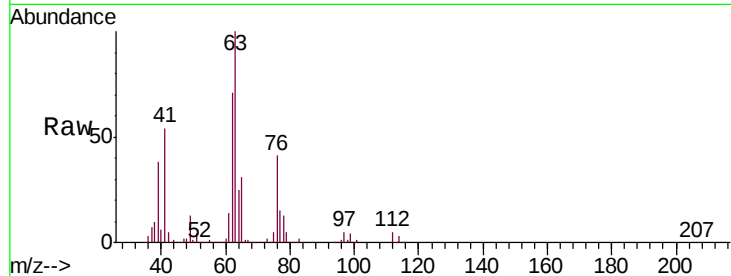




#40
 1,2-Dichloropropane
 Concen: 25.619 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

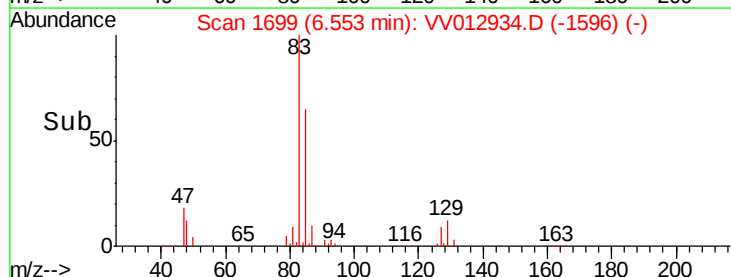
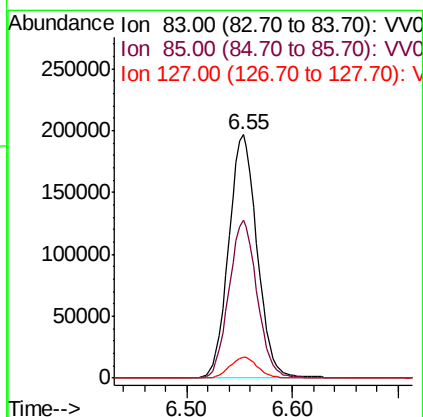
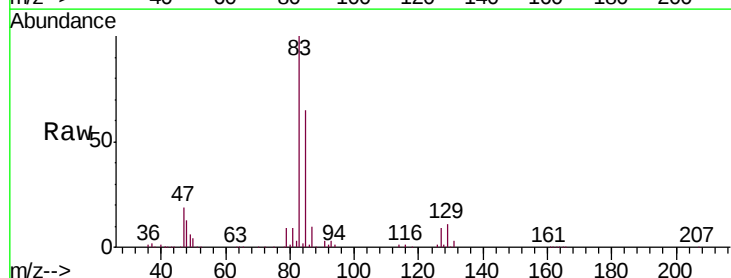
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

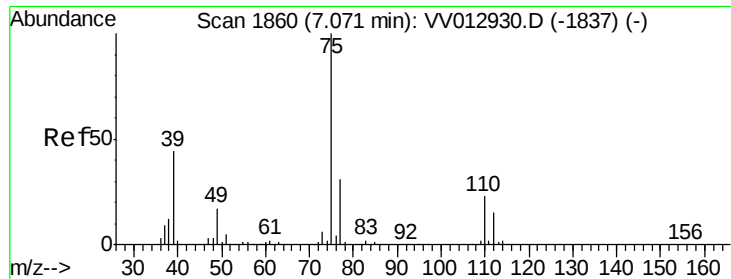
Tgt Ion: 63 Resp: 288445
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.6



#41
 Bromodichloromethane
 Concen: 25.390 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

Tgt Ion: 83 Resp: 366157
 Ion Ratio Lower Upper
 83 100
 85 64.8 45.3 84.1
 127 8.5 7.2 10.8





#42

cis-1,3-Dichloropropene

Concen: 26.432 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampled :

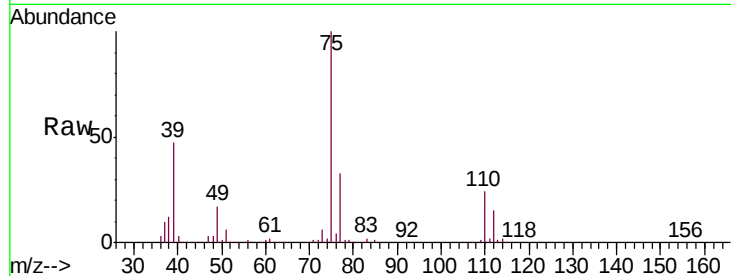
VSTD02567

Tgt Ion: 75 Resp: 437284

Ion Ratio Lower Upper

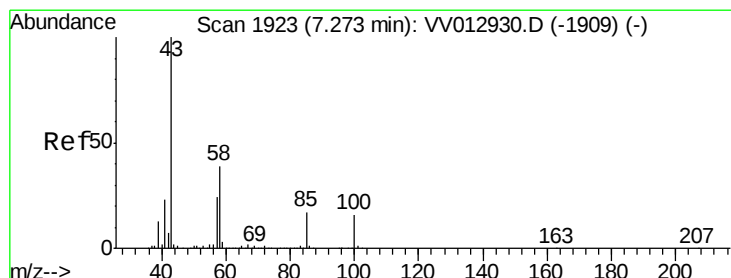
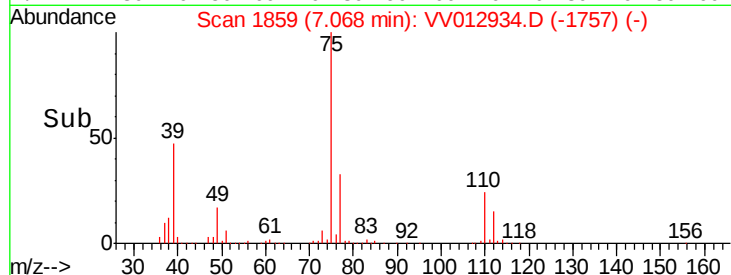
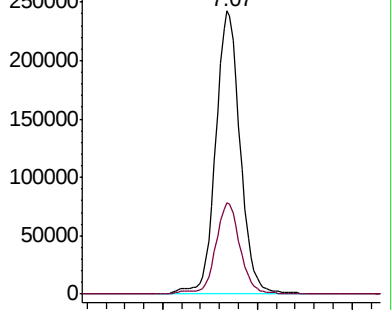
75 100

77 32.5 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV012930.D (-1837) (-)

Ion 77.00 (76.70 to 77.70): VV012930.D (-1837) (-)



#43

4-Methyl-2-pentanone

Concen: 57.572 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. -0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

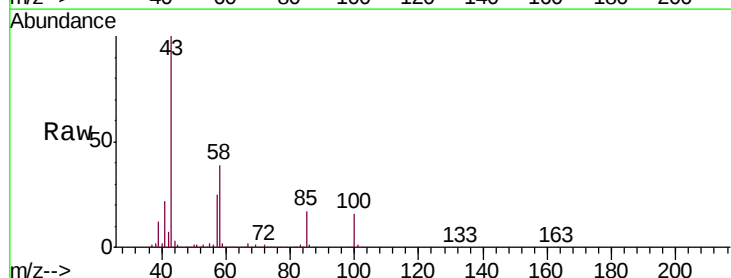
Tgt Ion: 43 Resp: 532554

Ion Ratio Lower Upper

43 100

58 38.9 31.2 46.8

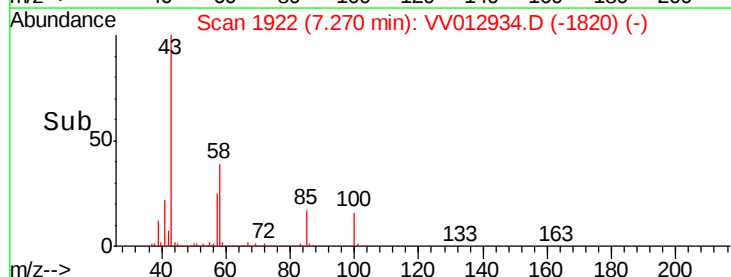
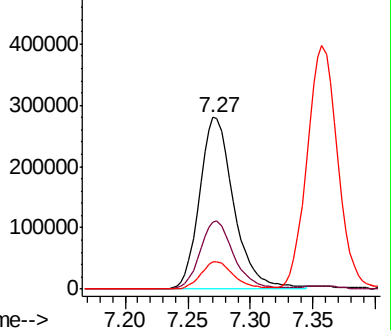
100 15.4 12.2 18.2

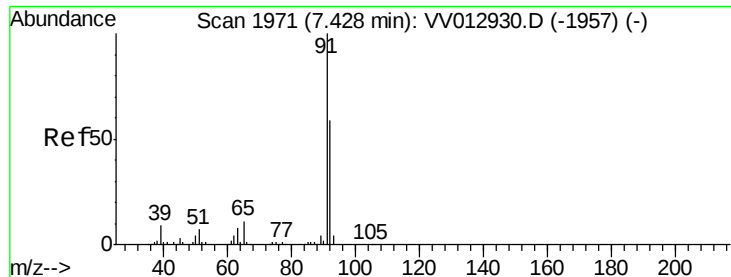


Abundance Ion 43.00 (42.70 to 43.70): VV012930.D (-1909) (-)

Ion 58.00 (57.70 to 58.70): VV012930.D (-1909) (-)

Ion 100.00 (99.70 to 100.70): VV012930.D (-1909) (-)





#44

Toluene

Concen: 25.976 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

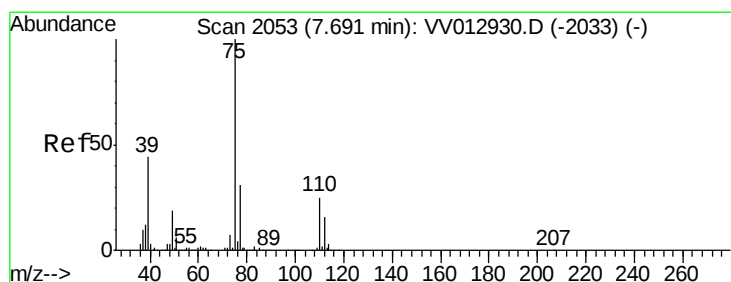
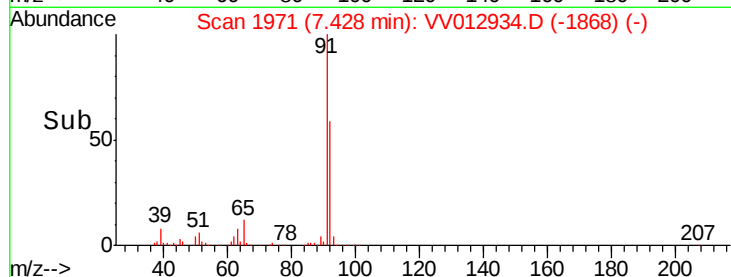
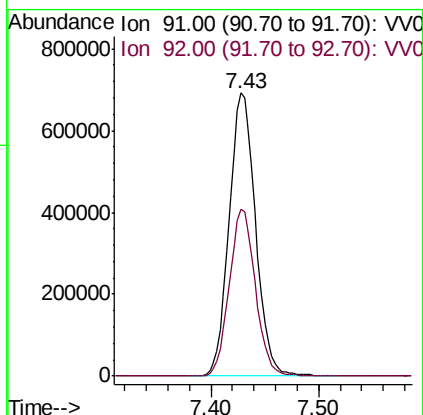
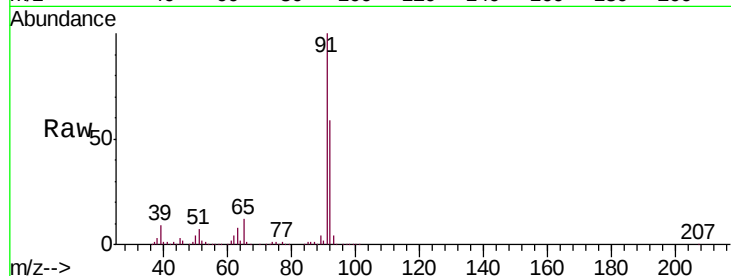
VSTD02567

Tgt Ion: 91 Resp: 1186117

Ion Ratio Lower Upper

91 100

92 59.1 41.3 76.7



#45

trans-1,3-Dichloropropene

Concen: 26.094 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012934.D

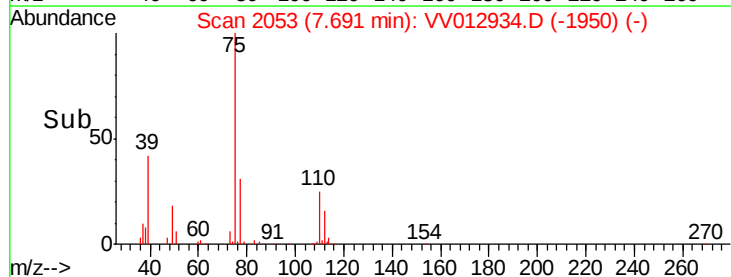
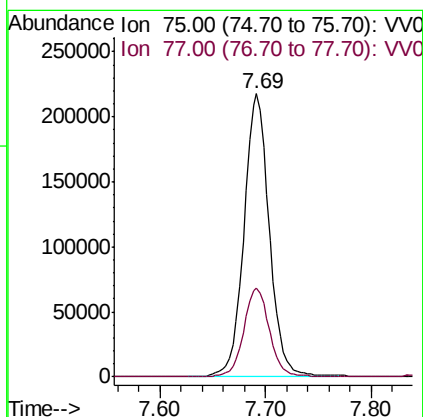
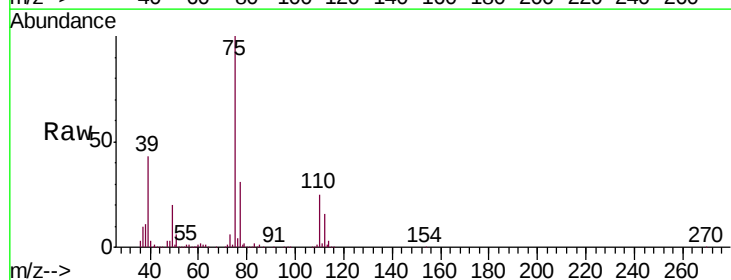
Acq: 23 Sep 2019 13:07

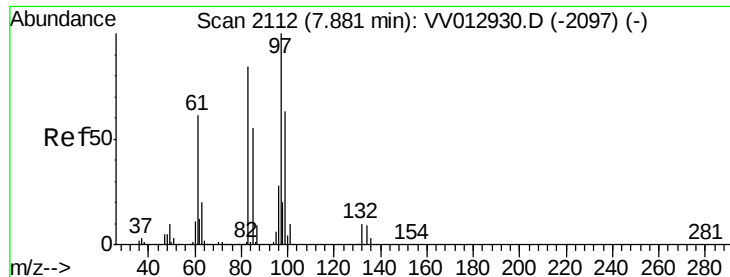
Tgt Ion: 75 Resp: 363326

Ion Ratio Lower Upper

75 100

77 31.4 22.0 40.8





#46

1,1,2-Trichloroethane

Concen: 25.707 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

Tgt Ion: 97 Resp: 245719

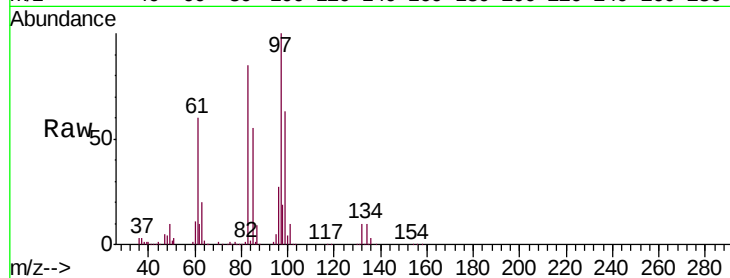
Ion Ratio Lower Upper

97 100

83 84.7 58.9 109.5

85 55.3 38.4 71.2

99 63.0 43.8 81.4

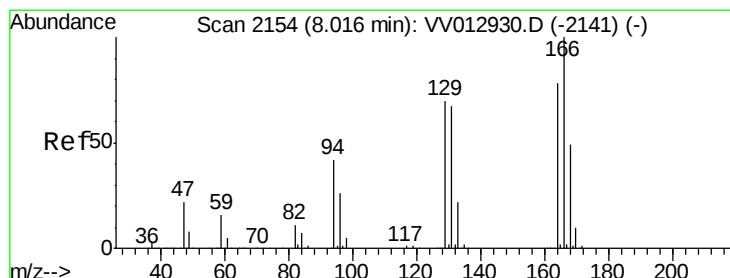
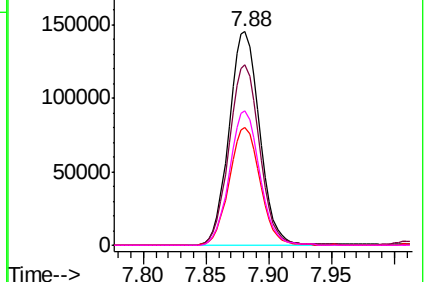
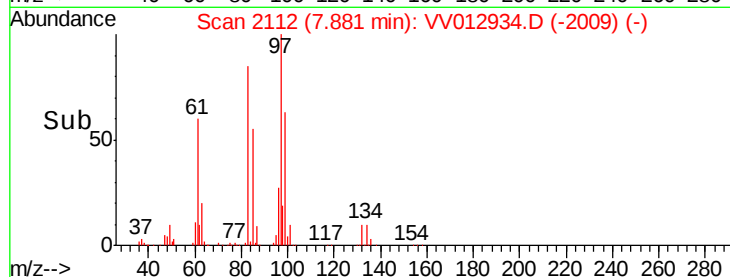


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 24.013 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Tgt Ion: 164 Resp: 235384

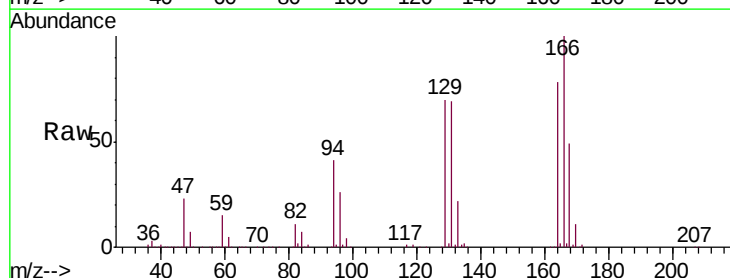
Ion Ratio Lower Upper

164 100

129 89.9 62.8 116.6

131 89.0 60.2 111.8

166 128.7 89.4 166.0

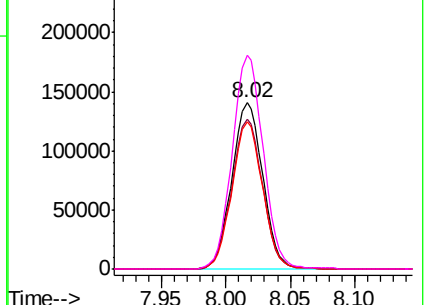
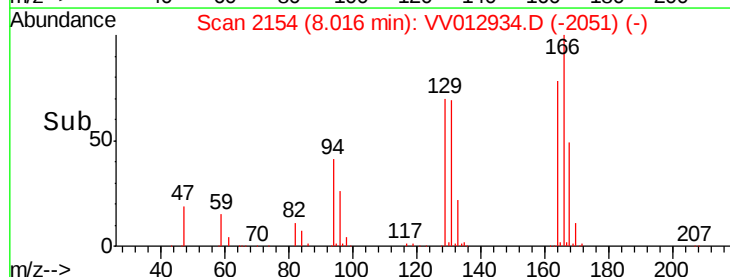


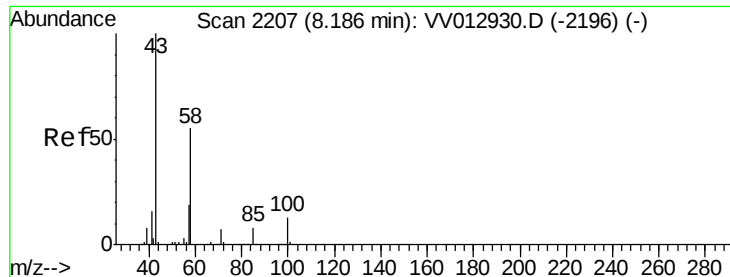
Abundance Ion 164.00 (163.70 to 164.70): V

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

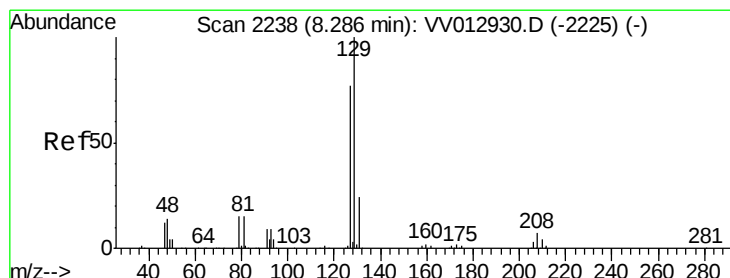
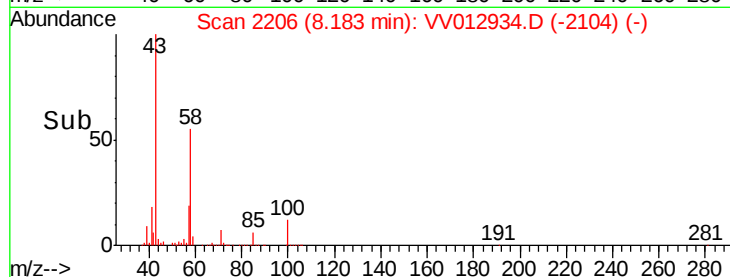
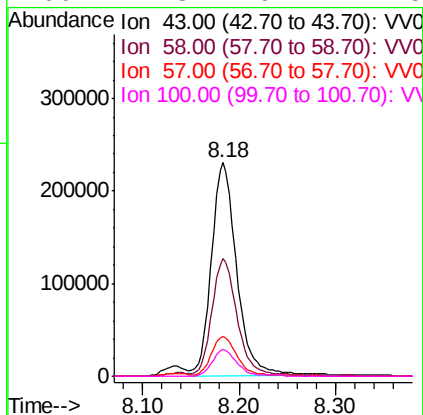
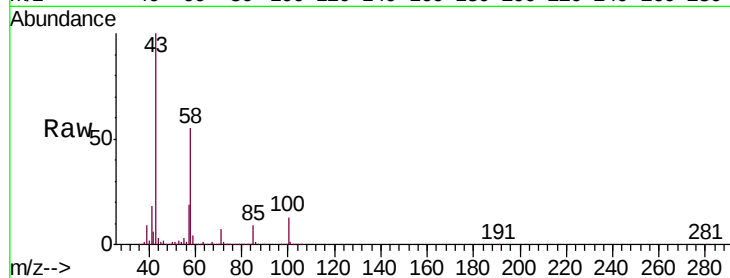




#49
2-Hexanone
Concen: 59.652 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

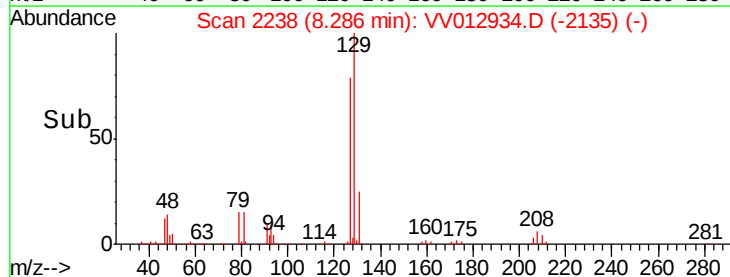
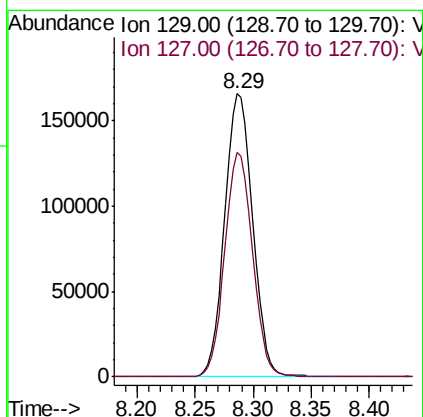
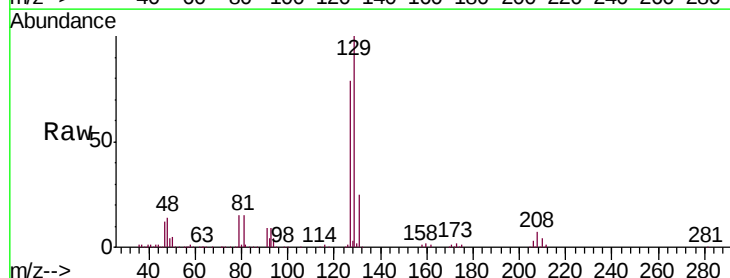
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

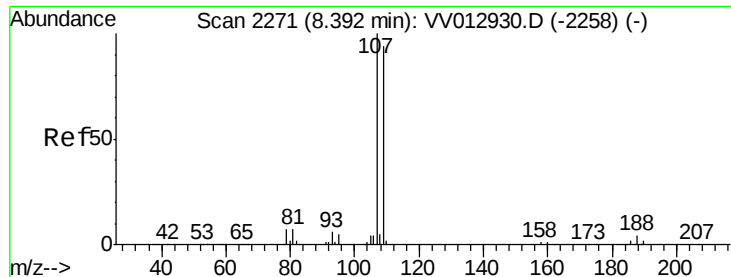
Tgt Ion: 43 Resp: 415935
Ion Ratio Lower Upper
43 100
58 54.4 46.5 69.7
57 19.0 15.5 23.3
100 12.3 9.7 14.5



#50
Dibromochloromethane
Concen: 25.224 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

Tgt Ion: 129 Resp: 277113
Ion Ratio Lower Upper
129 100
127 79.5 53.7 99.7





#51

1,2-Dibromoethane

Concen: 26.378 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

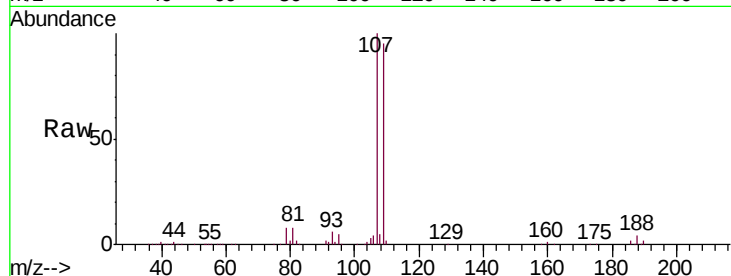
Tgt Ion:107 Resp: 247073

Ion Ratio Lower Upper

107 100

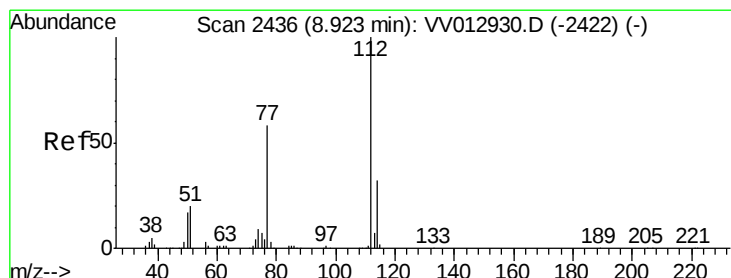
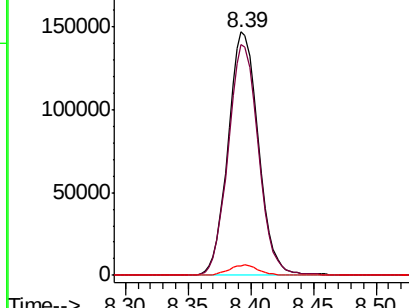
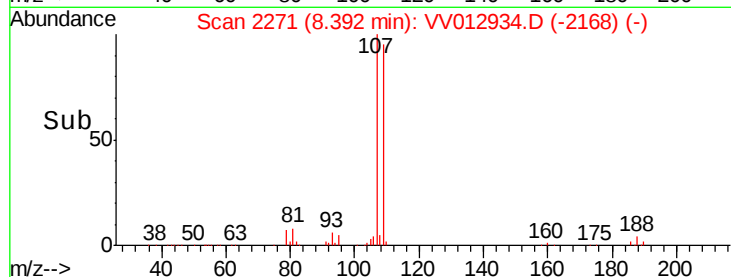
109 94.6 66.1 122.8

188 4.1 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

8.39



#52

Chlorobenzene

Concen: 24.939 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

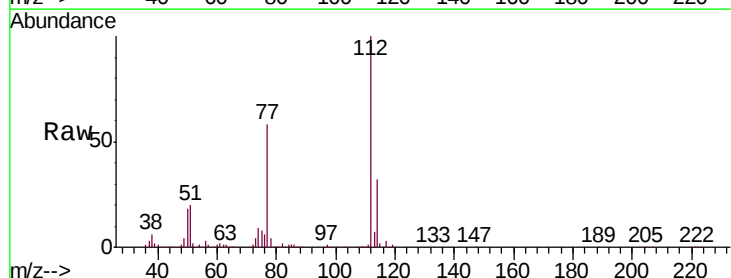
Tgt Ion:112 Resp: 785853

Ion Ratio Lower Upper

112 100

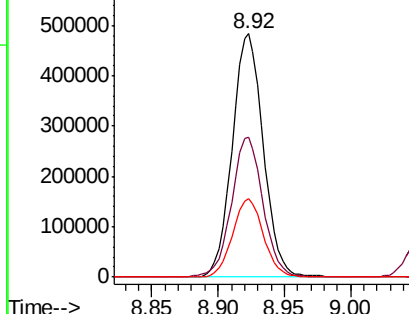
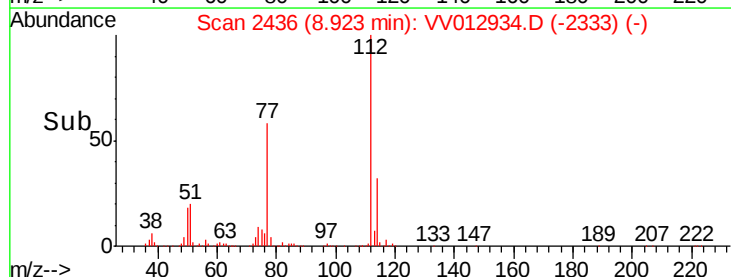
77 57.5 46.3 69.5

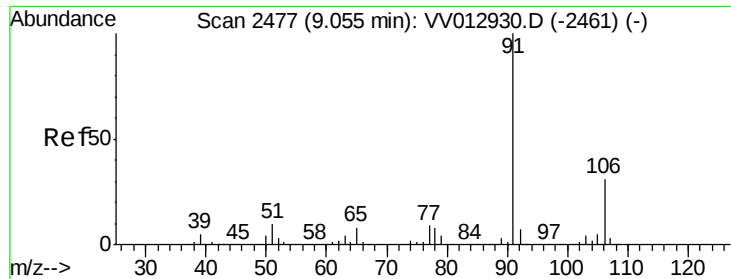
114 32.3 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V

8.92

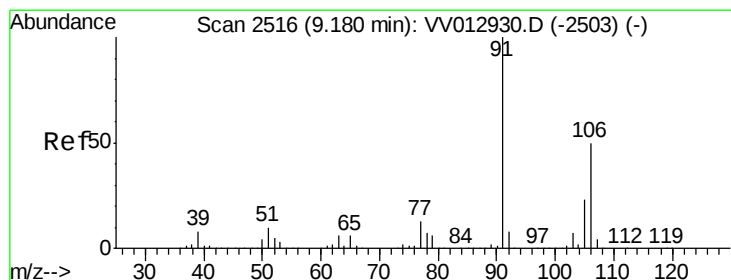
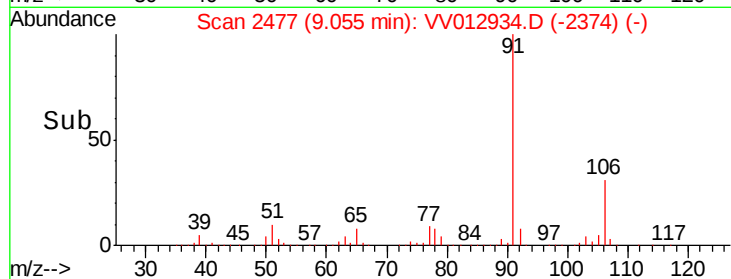
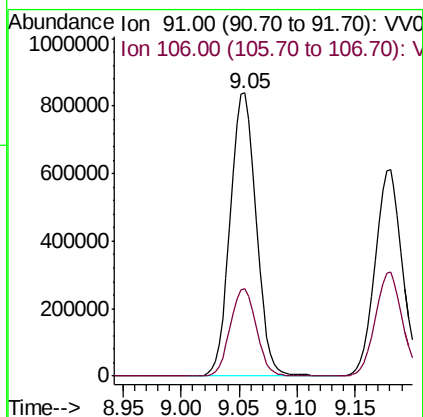
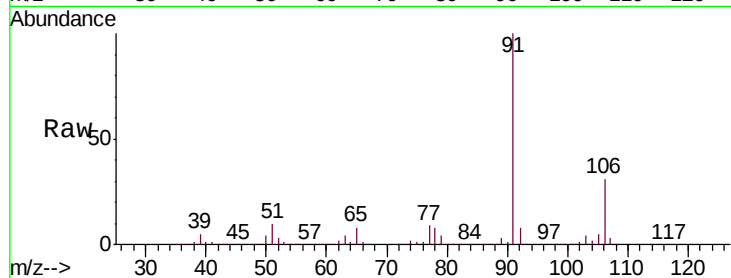




#53
Ethylbenzene
Concen: 25.926 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

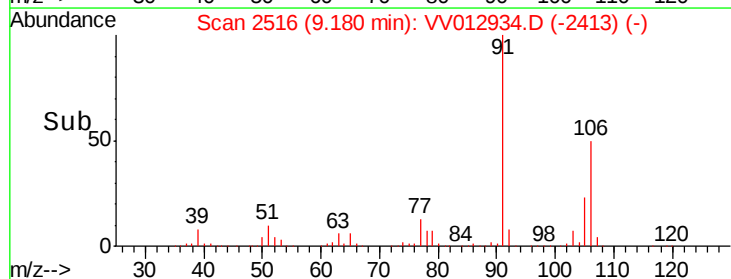
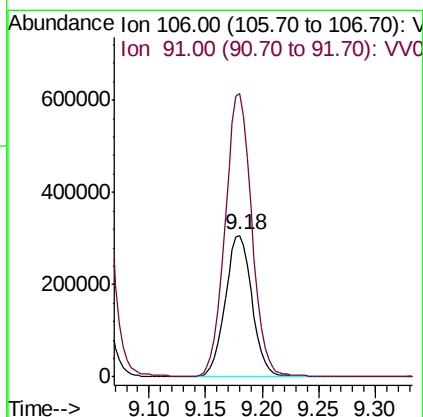
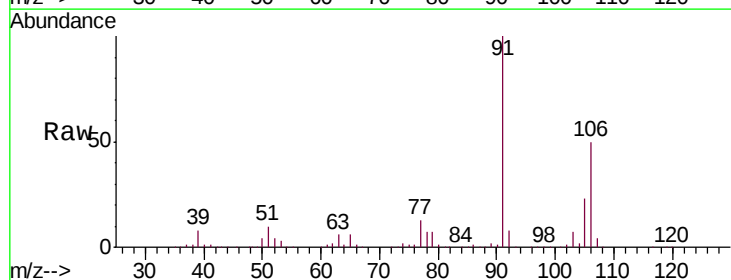
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

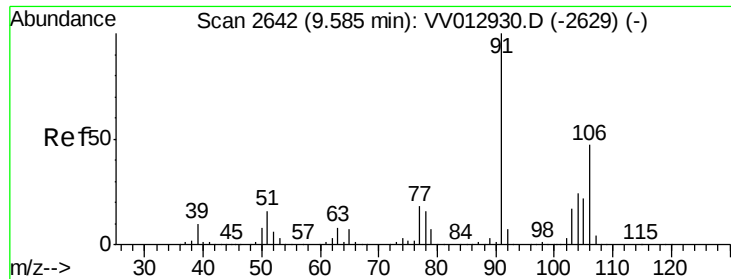
Tgt Ion: 91 Resp: 1303475
Ion Ratio Lower Upper
91 100
106 31.0 21.8 40.4



#54
m,p-Xylene
Concen: 26.405 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV012934.D
Acq: 23 Sep 2019 13:07

Tgt Ion: 106 Resp: 504687
Ion Ratio Lower Upper
106 100
91 199.6 140.1 260.3





#55

o-xylene

Concen: 26.507 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

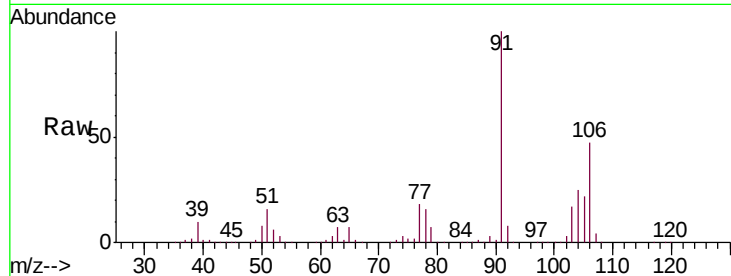
VSTD02567

Tgt Ion:106 Resp: 482728

Ion Ratio Lower Upper

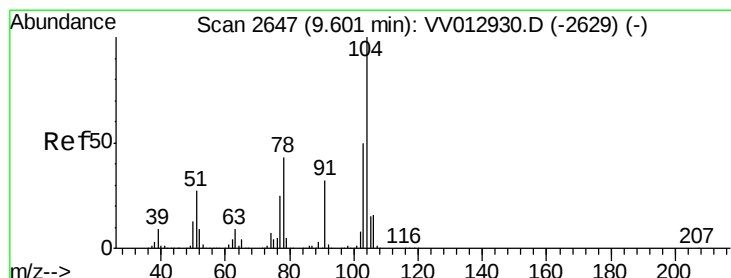
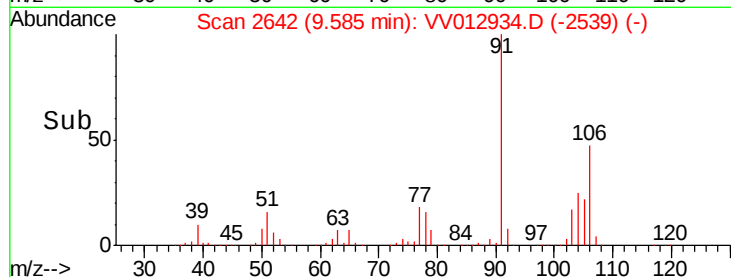
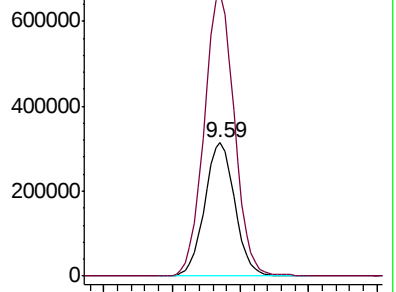
106 100

91 212.1 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 27.429 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012934.D

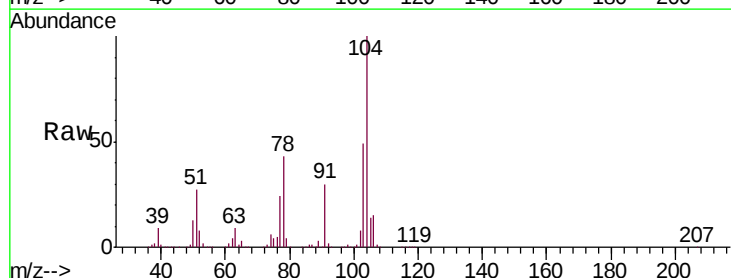
Acq: 23 Sep 2019 13:07

Tgt Ion:104 Resp: 878927

Ion Ratio Lower Upper

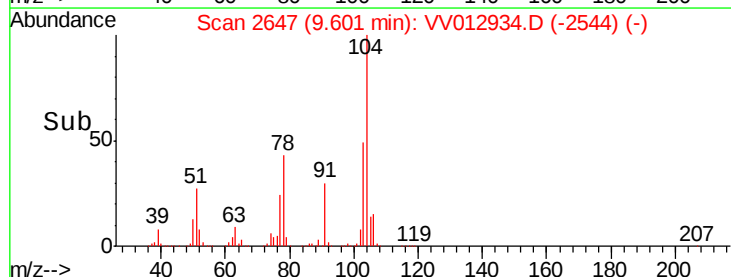
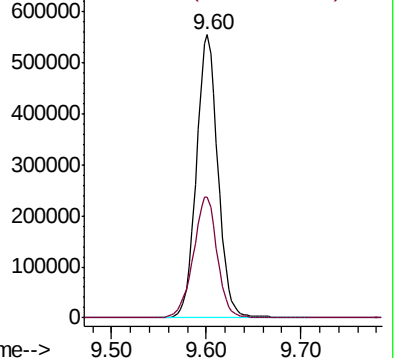
104 100

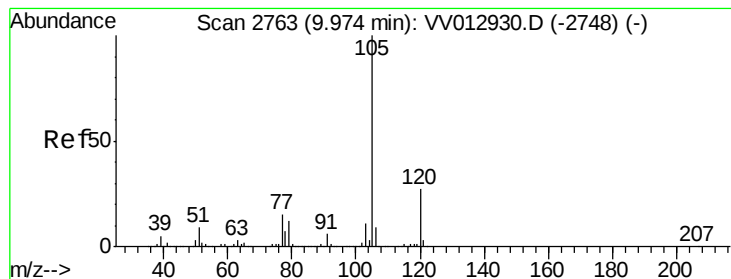
78 42.8 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.318 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

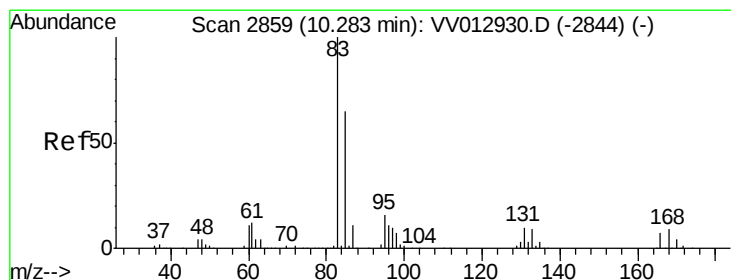
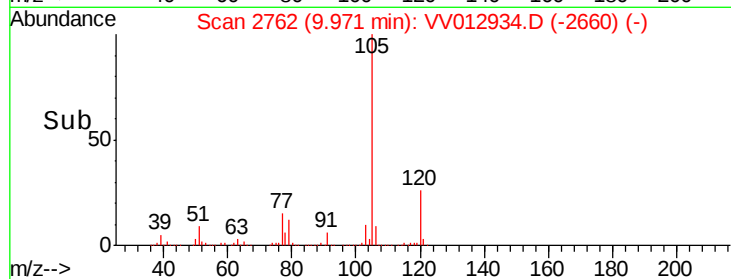
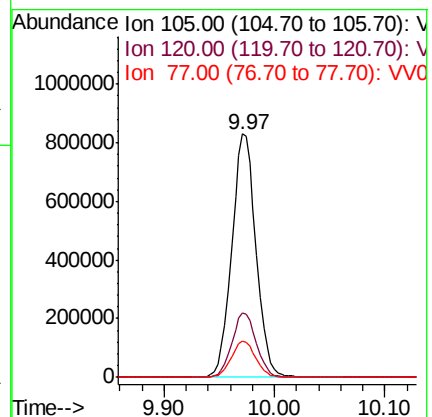
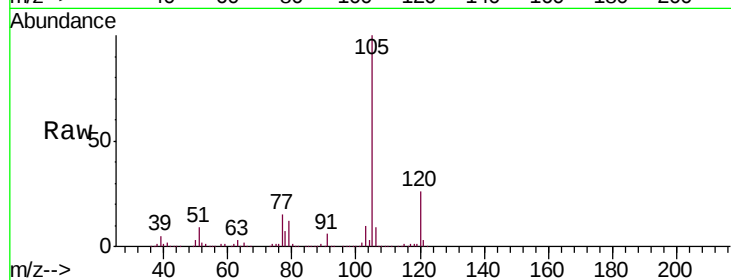
Tgt Ion:105 Resp: 1259592

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

77 15.0 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 26.233 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

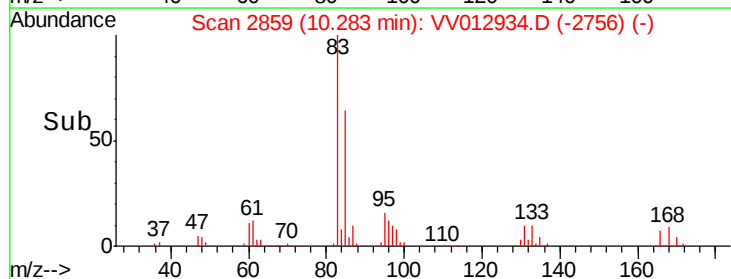
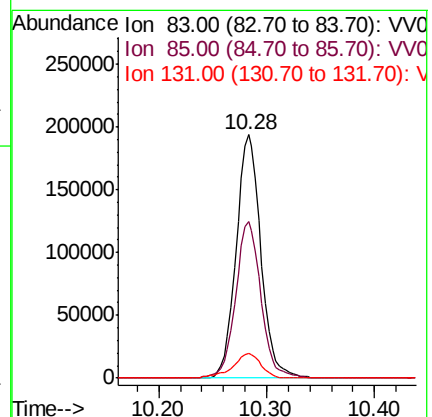
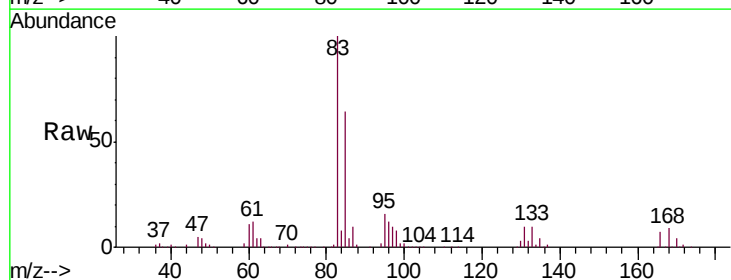
Tgt Ion: 83 Resp: 310170

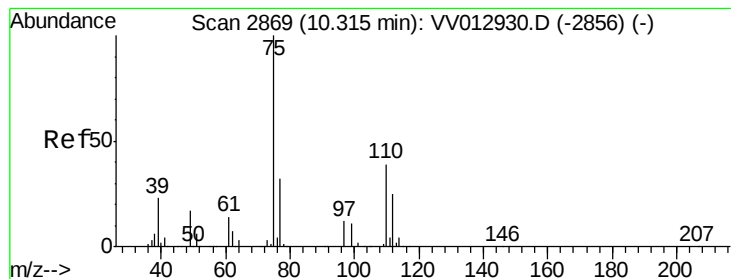
Ion Ratio Lower Upper

83 100

85 64.5 45.4 84.2

131 10.1 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 26.329 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

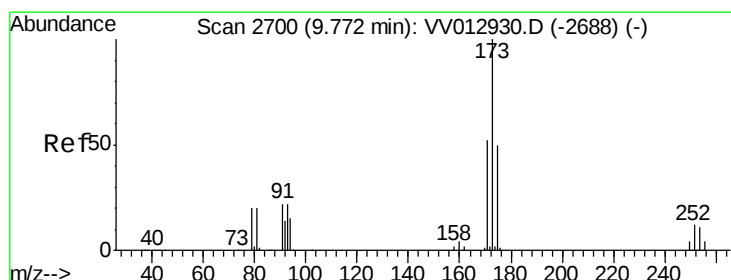
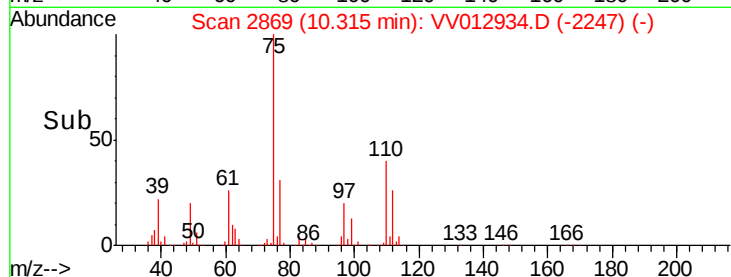
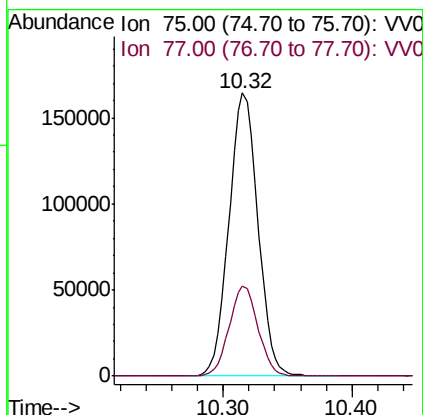
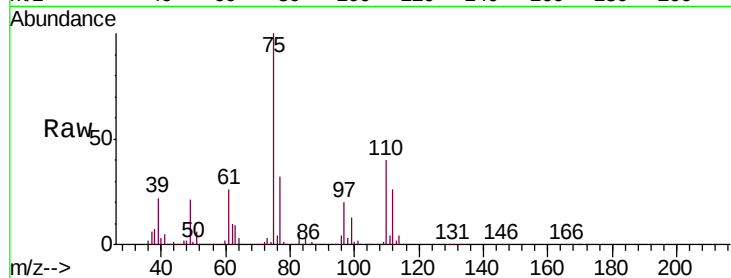
VSTD02567

Tgt Ion: 75 Resp: 256940

Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0



#62

Bromoform

Concen: 25.481 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

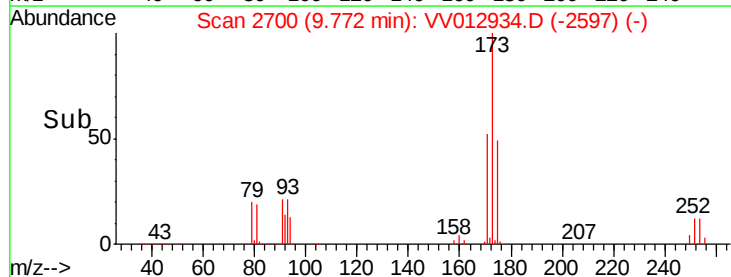
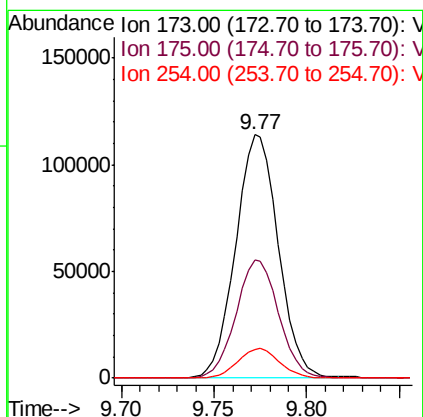
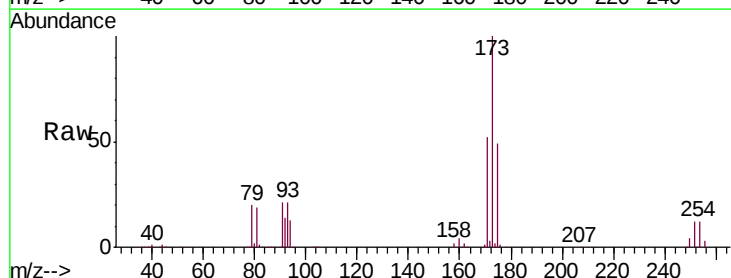
Tgt Ion: 173 Resp: 182938

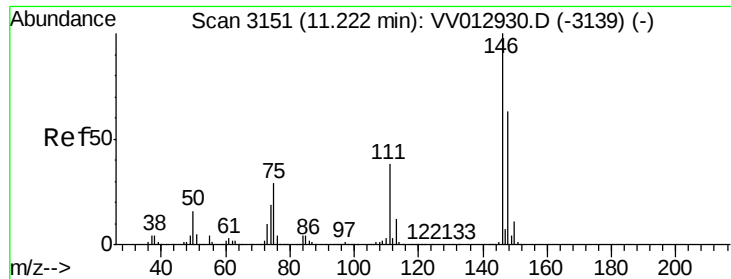
Ion Ratio Lower Upper

173 100

175 48.6 39.5 59.3

254 11.8 9.1 13.7

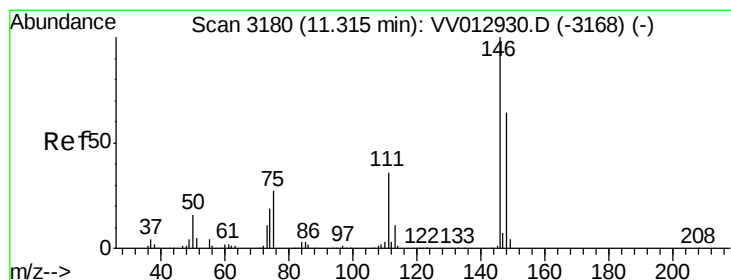
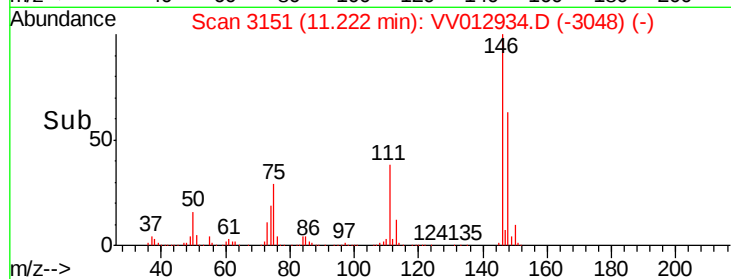
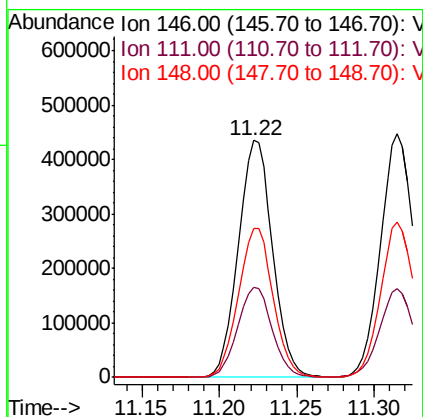
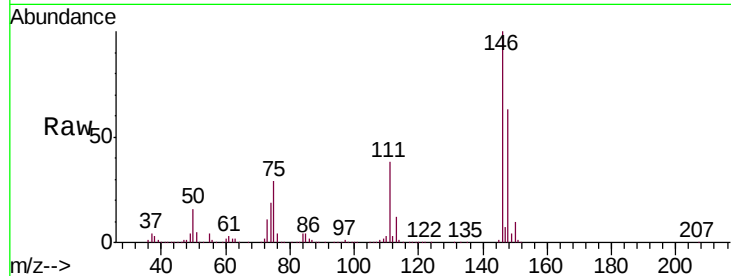




#63
 1,3-Dichlorobenzene
 Concen: 25.700 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

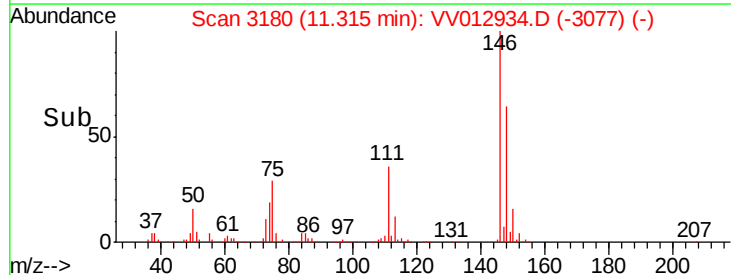
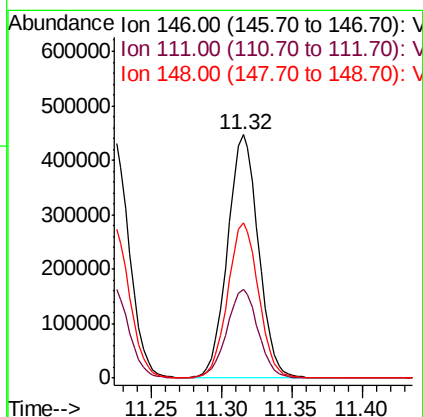
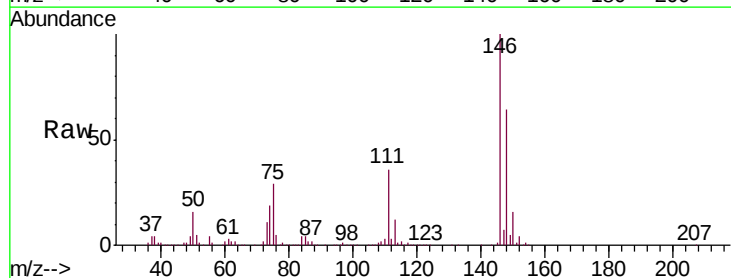
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

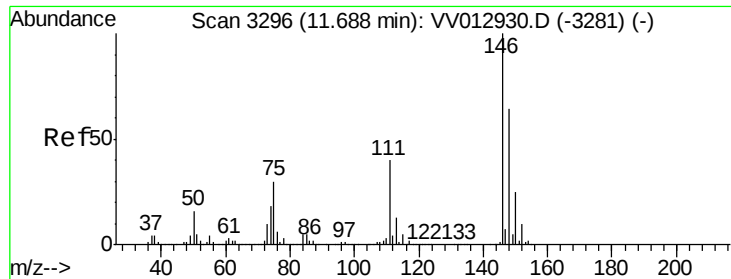
Tgt Ion:146 Resp: 669270
 Ion Ratio Lower Upper
 146 100
 111 38.2 26.7 49.7
 148 62.9 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 24.938 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

Tgt Ion:146 Resp: 681596
 Ion Ratio Lower Upper
 146 100
 111 36.5 25.5 47.3
 148 63.7 45.1 83.9

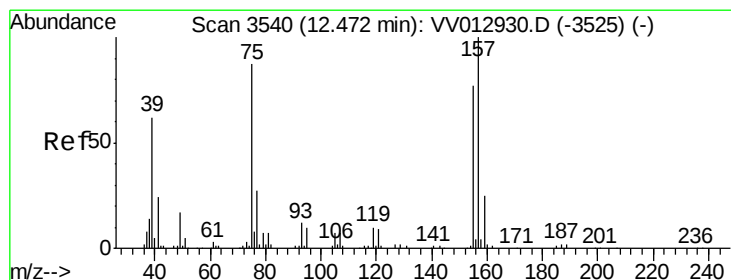
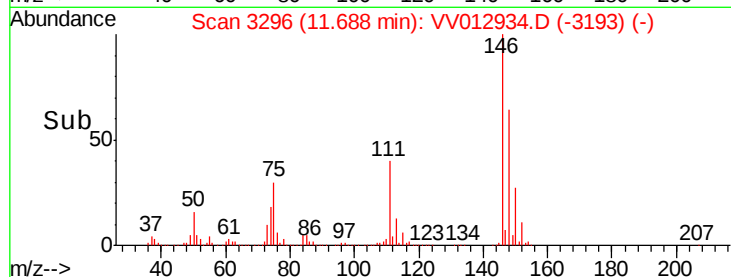
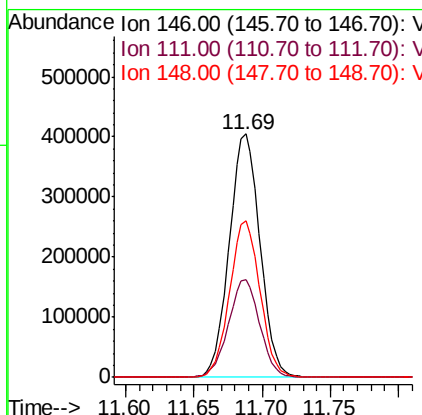
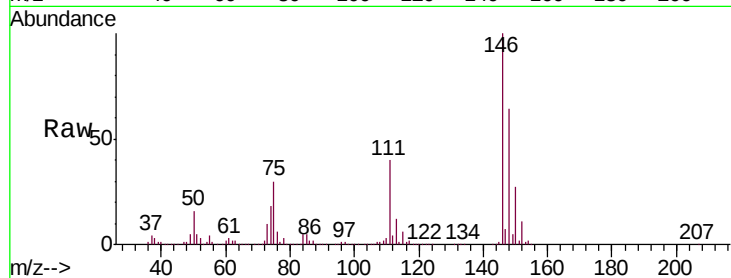




#65
 1,2-Dichlorobenzene
 Concen: 25.493 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

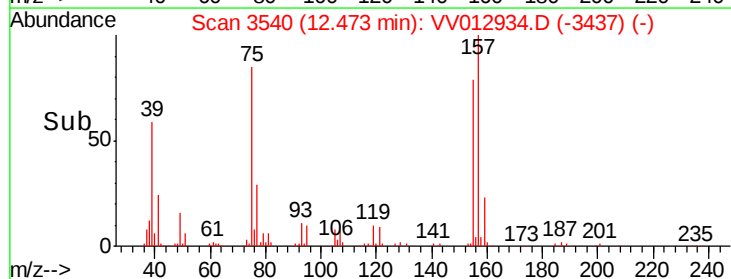
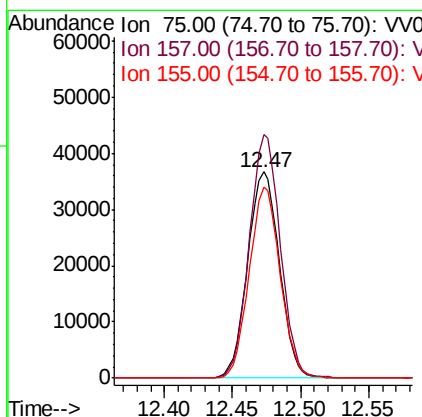
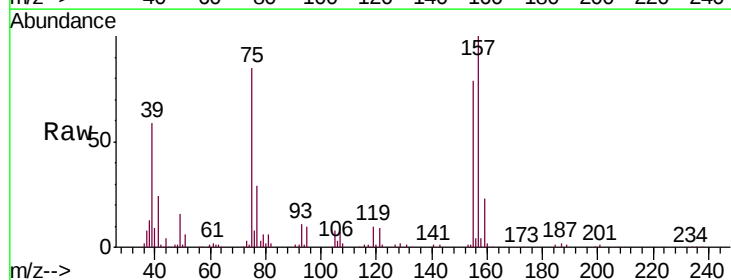
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

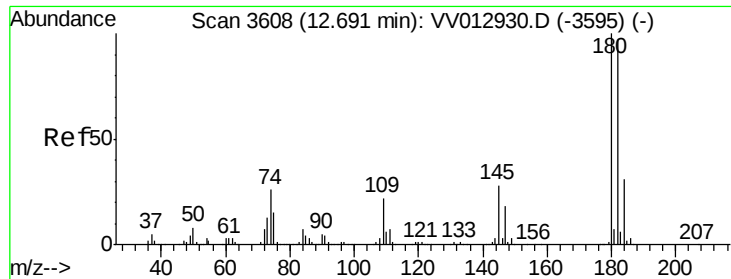
Tgt Ion:146 Resp: 633240
 Ion Ratio Lower Upper
 146 100
 111 40.1 31.9 47.9
 148 64.1 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 27.024 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV012934.D
 Acq: 23 Sep 2019 13:07

Tgt Ion: 75 Resp: 59515
 Ion Ratio Lower Upper
 75 100
 157 118.1 91.7 137.5
 155 92.8 70.8 106.2





#67

1,3,5-Trichlorobenzene

Concen: 25.577 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

Tgt Ion:180 Resp: 521028

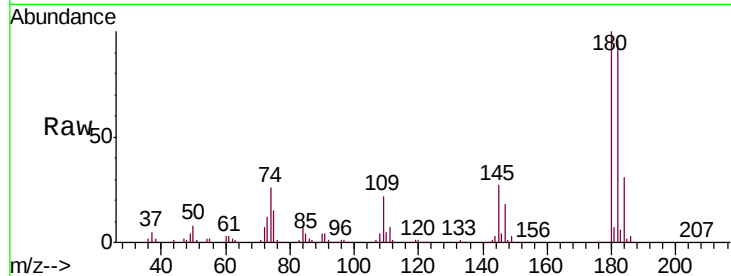
Ion Ratio Lower Upper

180 100

182 96.2 76.4 114.6

184 30.8 24.6 37.0

145 27.8 22.2 33.4

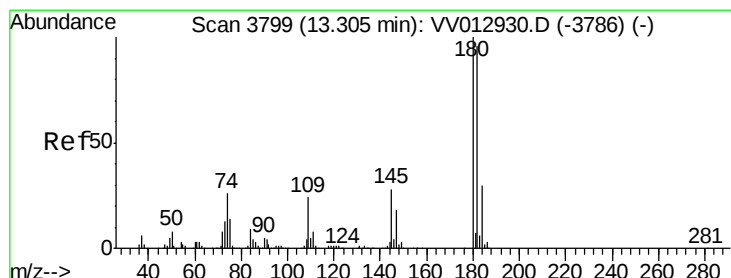
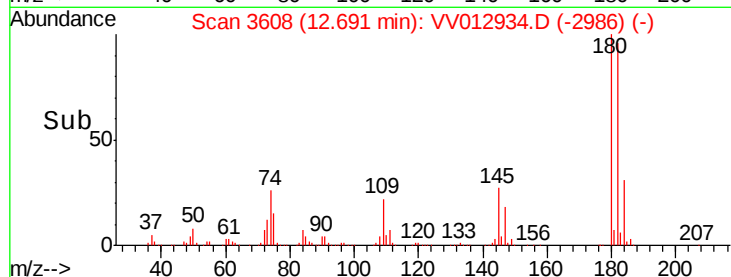
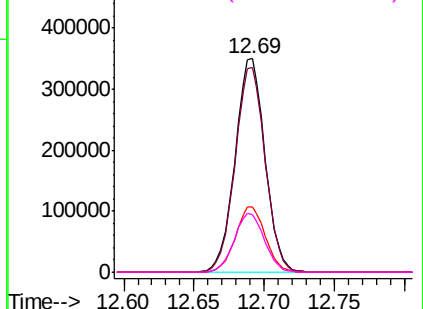


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 26.748 ug/L

RT: 13.31 min Scan# 3799

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

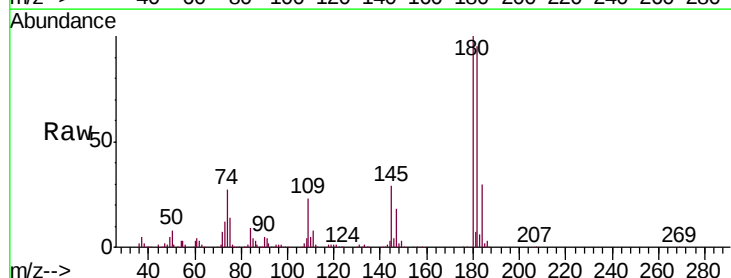
Tgt Ion:180 Resp: 476478

Ion Ratio Lower Upper

180 100

182 95.2 76.8 115.2

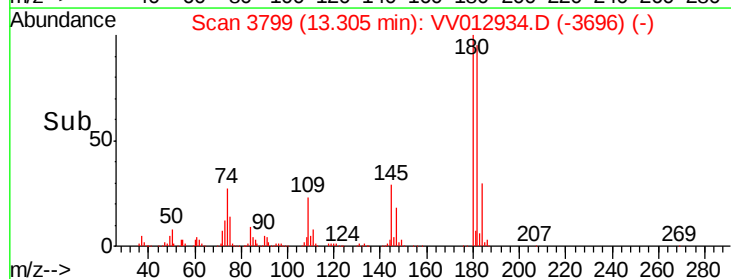
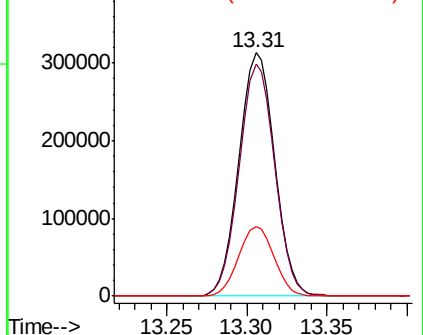
145 28.4 22.6 34.0

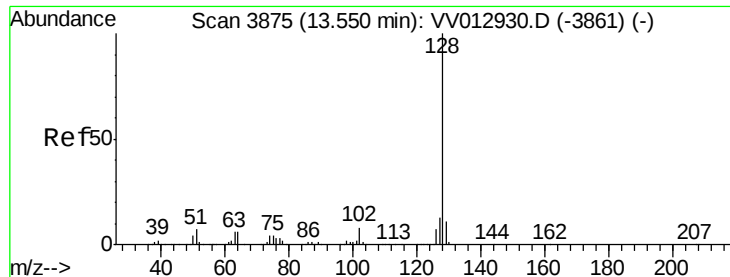


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 29.624 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

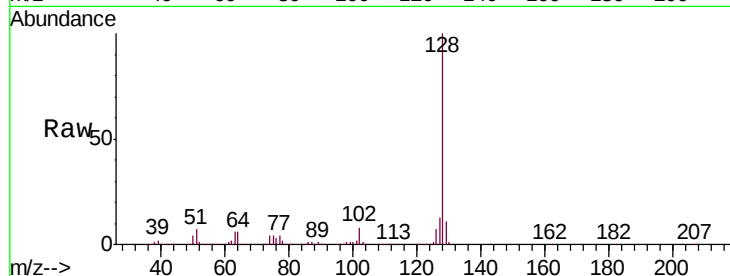
Tgt Ion:128 Resp: 1061397

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

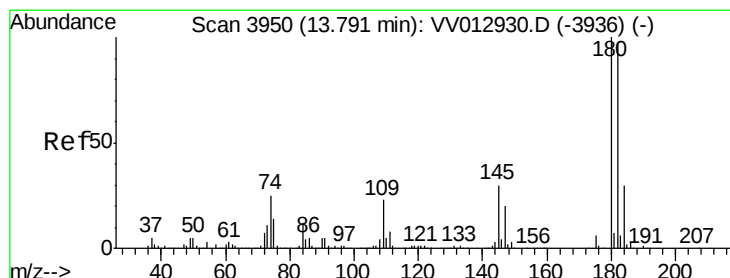
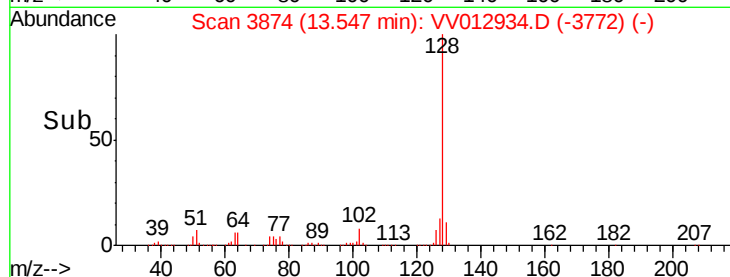
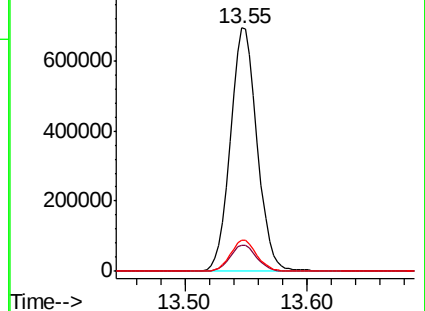
127 12.7 10.2 15.2



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: 27.191 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012934.D

Acq: 23 Sep 2019 13:07

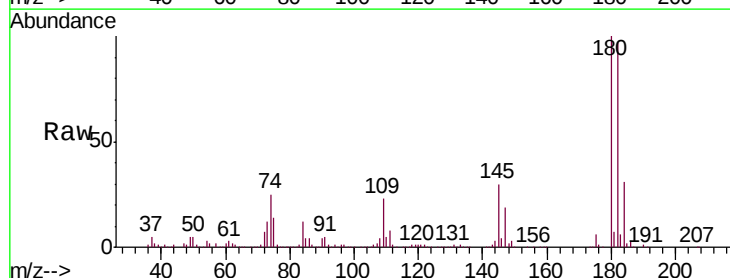
Tgt Ion:180 Resp: 465695

Ion Ratio Lower Upper

180 100

182 95.5 77.4 116.2

145 30.0 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

