

Data File : VV013065.D
Acq On : 09 Oct 2019 09:27
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

Quant Time: Oct 10 07:42:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Wed Oct 09 18:05:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	748053	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	727585	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	390802	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	256008	22.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.24%
7) Chloroethane-d5	1.58	69	218494	23.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.12%
10) 1,1-Dichloroethene-d2	2.13	63	484321	25.09	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.36%
20) 2-Butanone-d5	3.96	46	187079	46.68	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.36%
24) Chloroform-d	4.40	84	507662	24.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.08	65	277558	23.24	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.96%
29) Benzene-d6	5.09	84	1066157	26.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.00%
33) 1,2-Dichloropropane-d6	6.11	67	320752	25.19	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.76%
37) Toluene-d8	7.35	98	1002448	27.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	108.72%
38) trans-1,3-Dichloropropene-	7.66	79	134072	24.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.48%
39) 2-Hexanone-d5	8.13	63	127146	49.62	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.24%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	285283	23.59	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.36%
61) 1,2-Dichlorobenzene-d4	11.67	152	382556	25.20	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	232522	28.225 ug/L	99
3) Chloromethane	1.25	50	281082	26.127 ug/L	99
5) Vinyl chloride	1.32	62	293704	27.651 ug/L	100
6) Bromomethane	1.54	94	180884	27.280 ug/L	98
8) Chloroethane	1.60	64	186095	28.511 ug/L	96
9) Trichlorofluoromethane	1.77	101	386609	26.912 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	243989	26.573 ug/L	98
12) 1,1-Dichloroethene	2.14	96	233717	27.639 ug/L	98
13) Acetone	2.22	43	204619	48.038 ug/L	100
14) Carbon disulfide	2.32	76	686462	25.414 ug/L	100
15) Methyl Acetate	2.47	43	153647	23.257 ug/L	98
16) Methylene chloride	2.53	84	291748	26.093 ug/L	97
17) Methyl tert-butyl Ether	2.80	73	640246	25.804 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	269760	26.951 ug/L	98
19) 1,1-Dichloroethane	3.23	63	498461	27.289 ug/L	99
21) 2-Butanone	4.04	43	224047	45.197 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	294298	26.865 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Wed Oct 09 18:05:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	140309	25.931	ug/L	98
25) Chloroform	4.42	83	512863	26.779	ug/L	100
27) 1,2-Dichloroethane	5.18	62	342615	25.311	ug/L	100
30) Cyclohexane	4.72	56	426487	27.322	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	413635	28.725	ug/L	99
32) Carbon tetrachloride	4.87	117	367902	28.176	ug/L	98
34) Benzene	5.14	78	1138214	28.104	ug/L	100
35) Trichloroethene	5.96	95	301509	26.724	ug/L	98
36) Methylcyclohexane	6.17	83	466390	26.928	ug/L	99
40) 1,2-Dichloropropane	6.22	63	285565	27.114	ug/L	100
41) Bromodichloromethane	6.55	83	366685	27.182	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	426898	27.585	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	434962	50.267	ug/L	99
44) Toluene	7.43	91	1239432	29.016	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	357455	27.444	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	232201	25.969	ug/L	100
47) Tetrachloroethene	8.02	164	252023	27.484	ug/L	99
49) 2-Hexanone	8.18	43	326325	50.030	ug/L	98
50) Dibromochloromethane	8.29	129	273529	26.616	ug/L	98
51) 1,2-Dibromoethane	8.39	107	227425	25.956	ug/L	99
52) Chlorobenzene	8.92	112	806891	27.374	ug/L	99
53) Ethylbenzene	9.05	91	1360111	28.919	ug/L	100
54) m,p-Xylene	9.18	106	524967	29.361	ug/L	99
55) o-xylene	9.58	106	500437	29.375	ug/L	99
56) Styrene	9.60	104	885535	29.543	ug/L	98
57) Isopropylbenzene	9.97	105	1340400	29.939	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	281864	25.484	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	222732	24.399	ug/L	100
62) Bromoform	9.77	173	175013	26.391	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	664237	27.613	ug/L	99
64) 1,4-Dichlorobenzene	11.31	146	680019	26.935	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	622477	27.129	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	46635	22.924	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	516881	27.469	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	442751	26.907	ug/L	99
69) Naphthalene	13.55	128	851400	25.726	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	421273	26.629	ug/L	98

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

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MSVOA_V
ClientSampleId :
VSTD02588

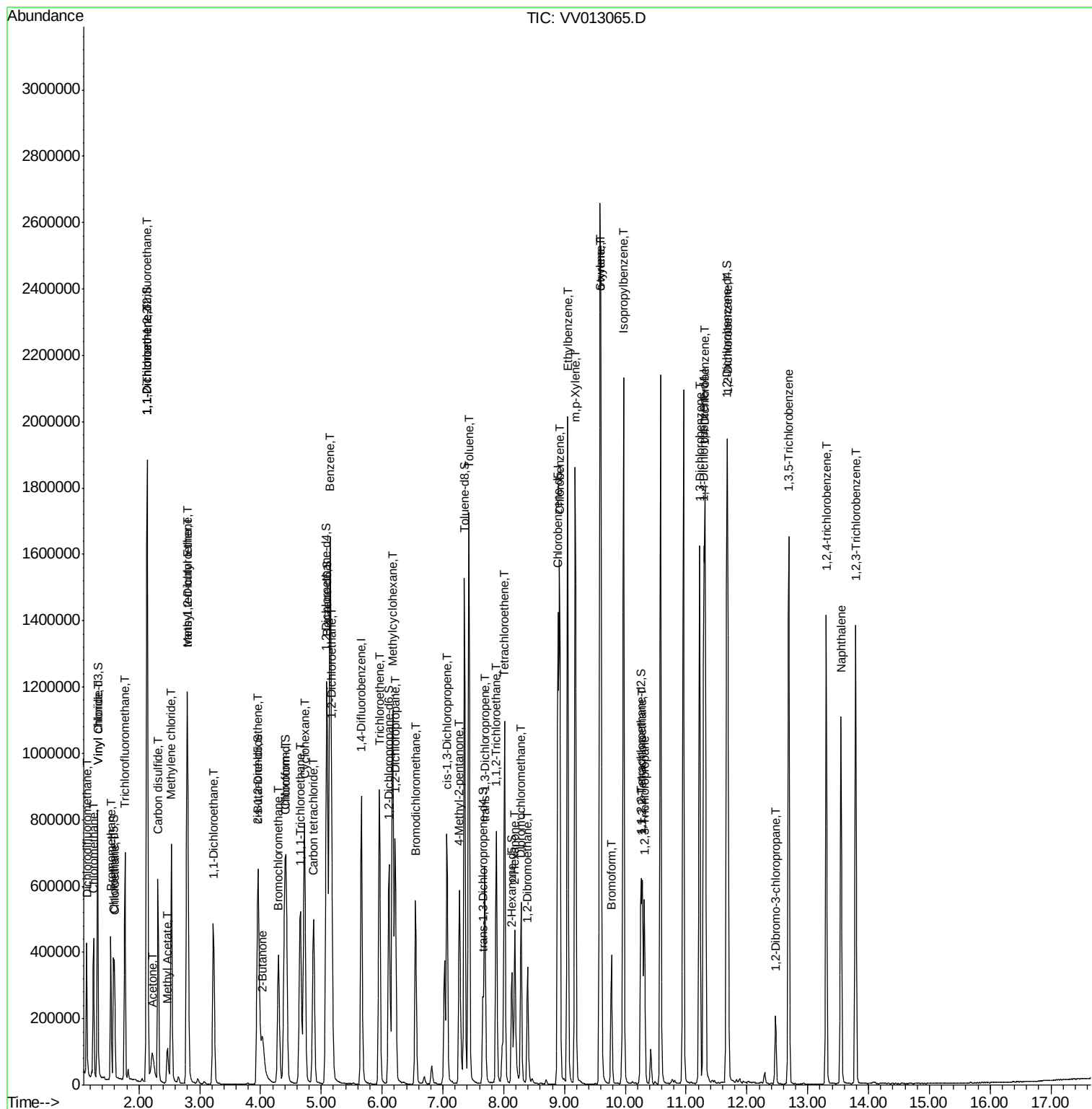
Quant Time: Oct 10 07:42:38 2019

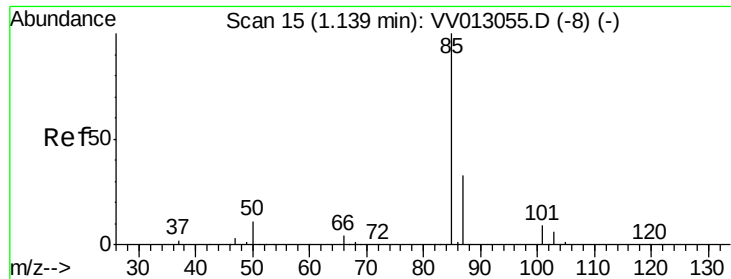
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM092319S.M

Quant Title : VOC Analysis

QLast Update : Wed Oct 09 18:05:19 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 28.225 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

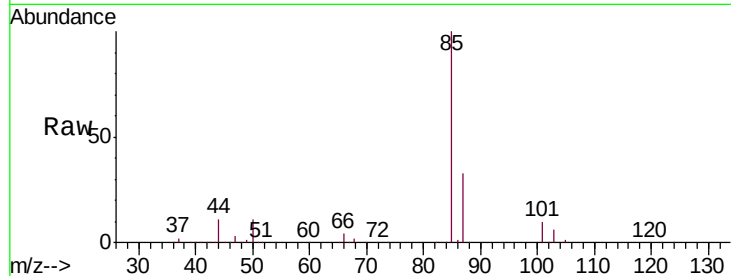
VSTD02588

Tgt Ion: 85 Resp: 232522

Ion Ratio Lower Upper

85 100

87 32.8 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV013055.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV013055.D (-8) (-)

1.14

250000

200000

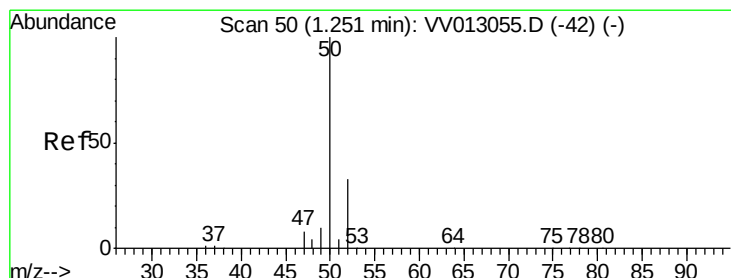
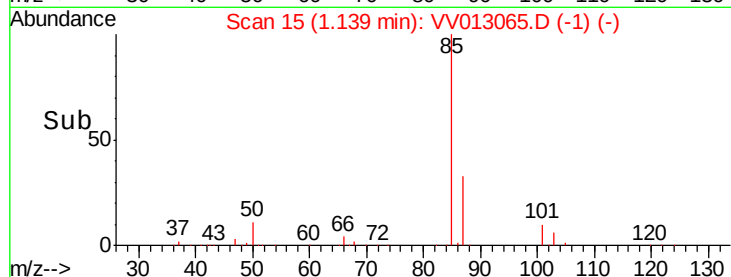
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 26.127 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013065.D

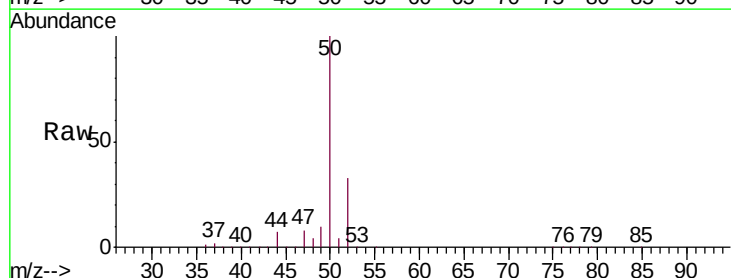
Acq: 09 Oct 2019 09:27

Tgt Ion: 50 Resp: 281082

Ion Ratio Lower Upper

50 100

52 32.7 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV013055.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV013055.D (-42) (-)

1.25

300000

250000

200000

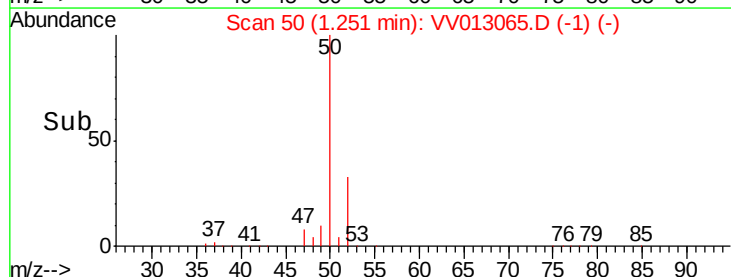
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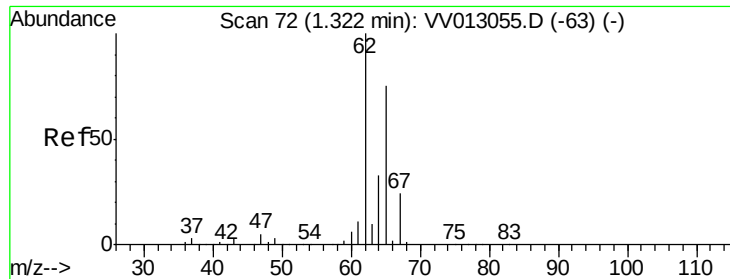
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 27.651 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

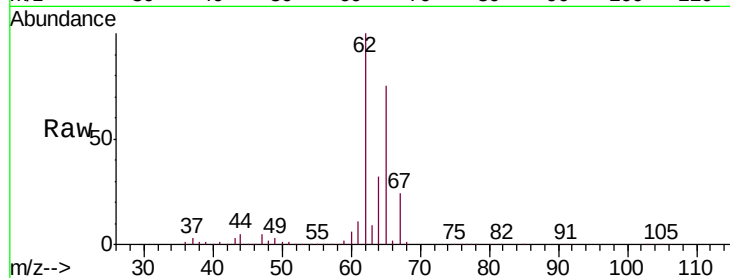
VSTD02588

Tgt Ion: 62 Resp: 293704

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

300000

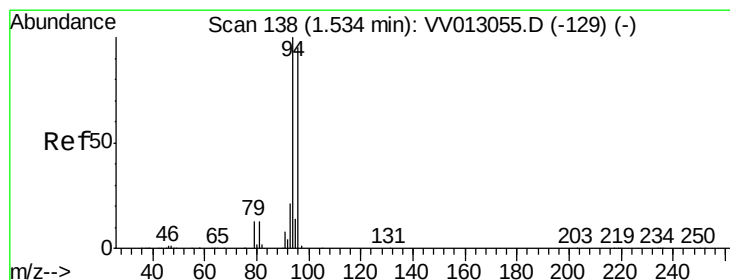
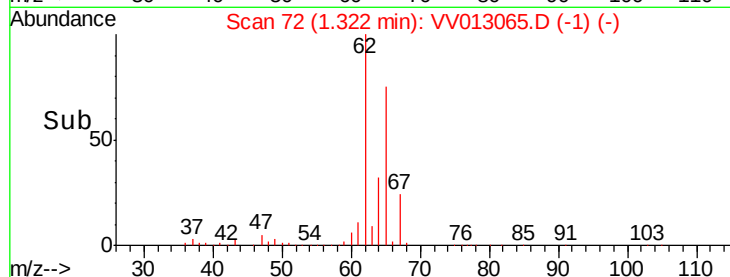
200000

100000

0

Time-->

1.30 1.32 1.34 1.36 1.38 1.40



#6

Bromomethane

Concen: 27.280 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV013065.D

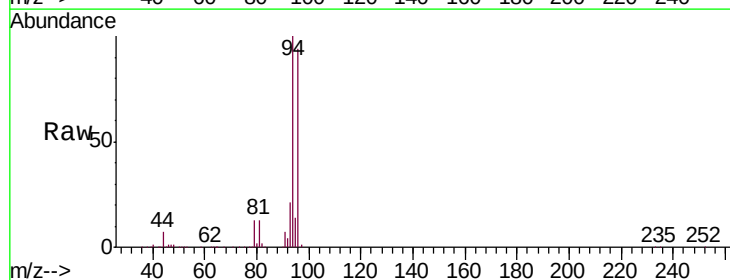
Acq: 09 Oct 2019 09:27

Tgt Ion: 94 Resp: 180884

Ion Ratio Lower Upper

94 100

96 95.2 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

150000

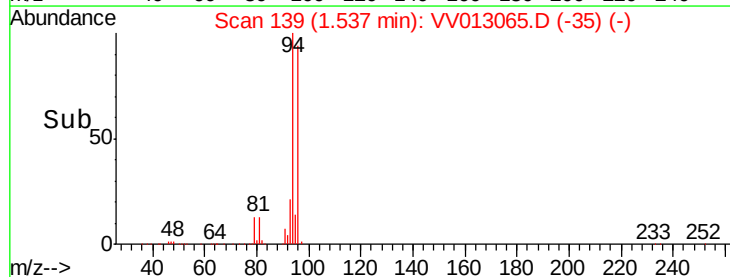
100000

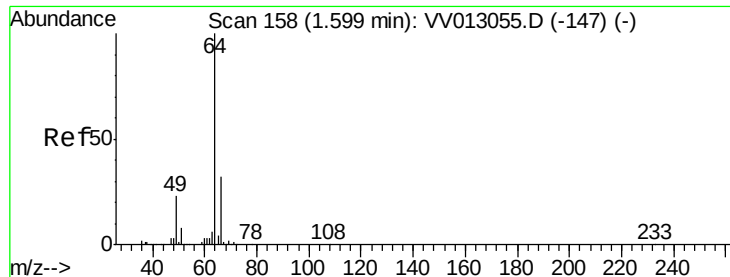
50000

0

Time-->

1.50 1.52 1.54 1.56 1.58 1.60

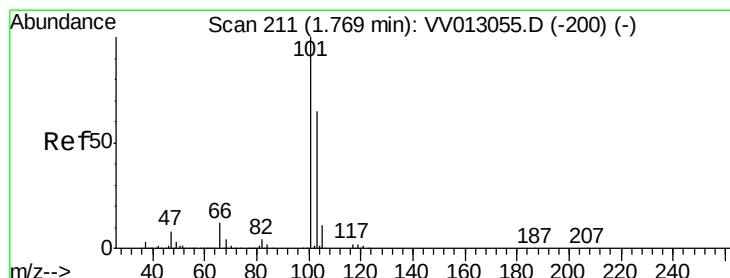
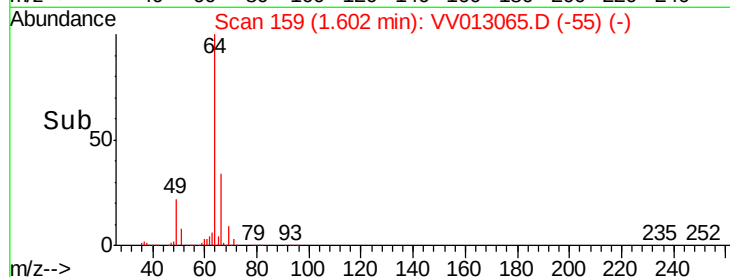
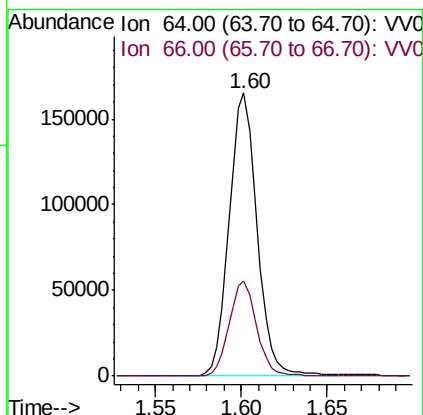
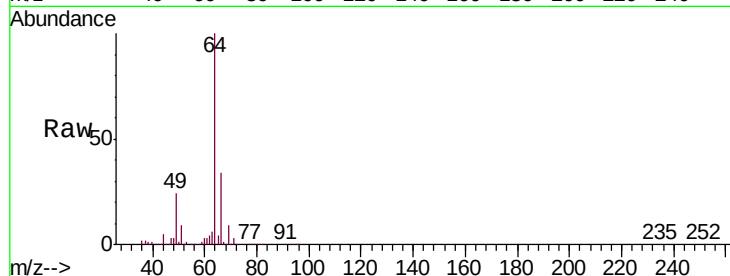




#8
Chloroethane
Concen: 28.511 ug/L
RT: 1.60 min Scan# 159
Delta R.T. 0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

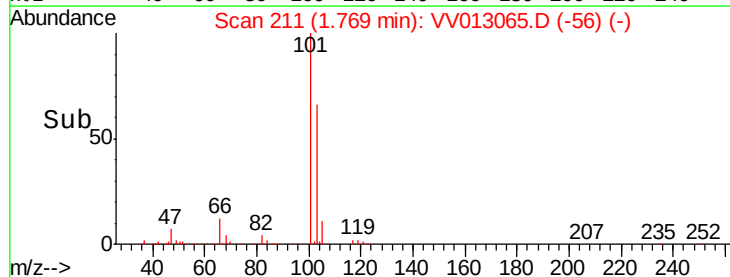
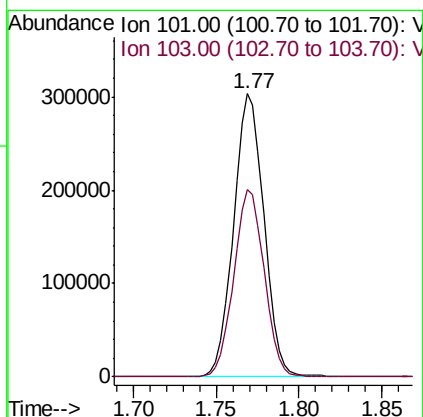
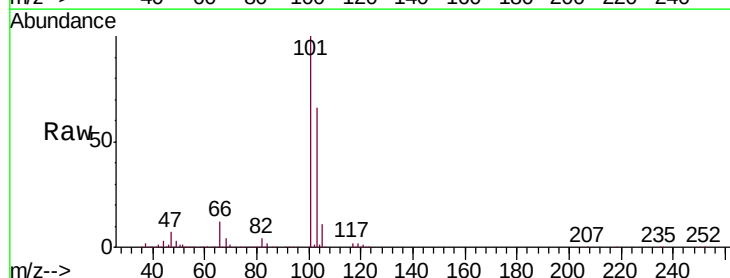
Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

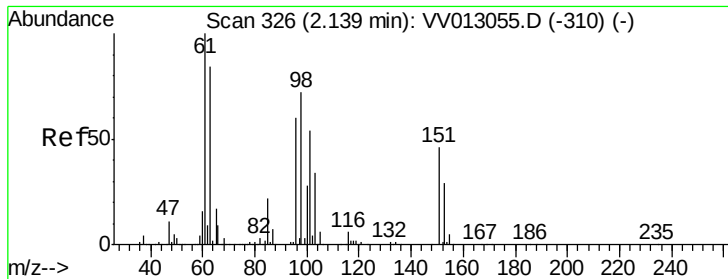
Tgt Ion: 64 Resp: 186095
Ion Ratio Lower Upper
64 100
66 33.7 22.2 41.2



#9
Trichlorofluoromethane
Concen: 26.912 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

Tgt Ion: 101 Resp: 386609
Ion Ratio Lower Upper
101 100
103 66.3 45.1 83.9





#11

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

Concen: 26.573 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02588

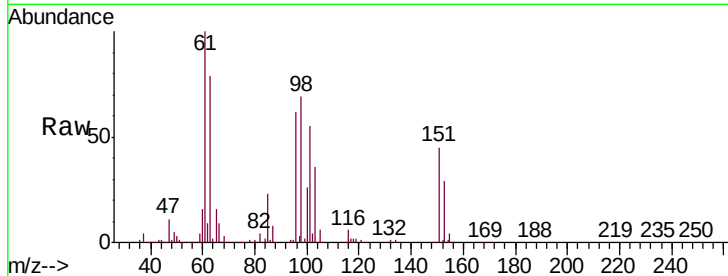
Tgt Ion: 101 Resp: 243989

Ion Ratio Lower Upper

101 100

85 41.3 32.6 49.0

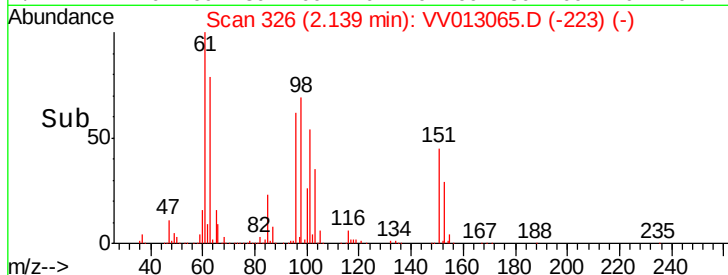
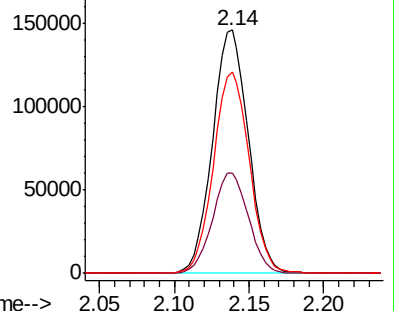
151 83.1 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV013055.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV013055.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV013055.D (-310) (-)



#12

1,1-Dichloroethene

Concen: 27.639 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

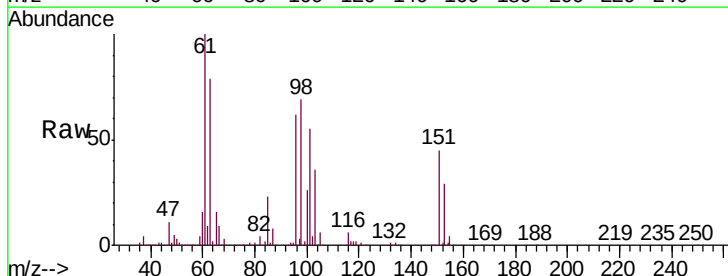
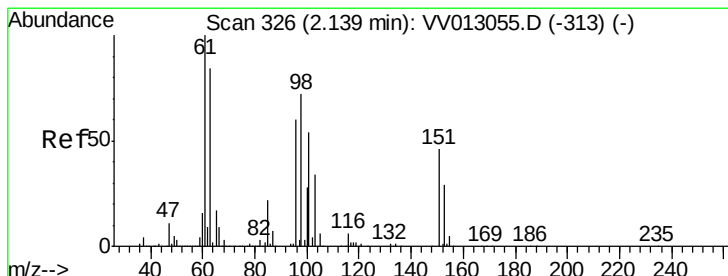
Tgt Ion: 96 Resp: 233717

Ion Ratio Lower Upper

96 100

61 162.4 117.2 217.8

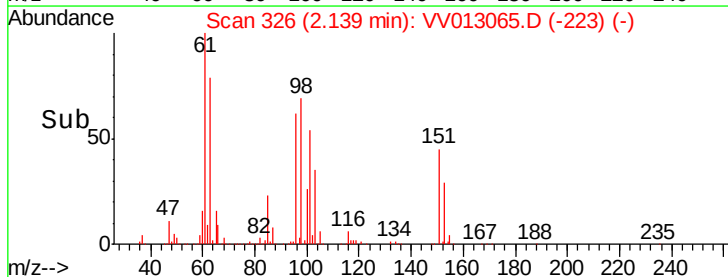
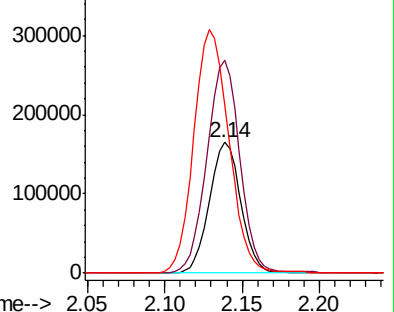
63 129.0 89.6 166.4

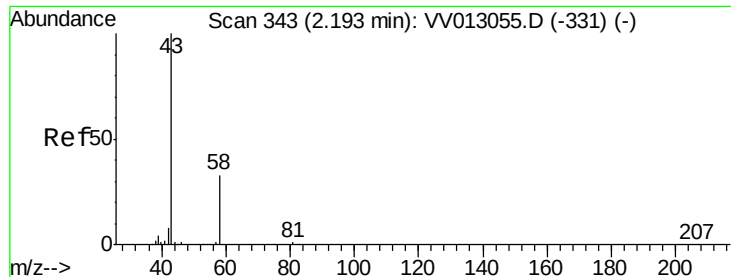


Abundance Ion 96.00 (95.70 to 96.70): VV013055.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV013055.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV013055.D (-313) (-)





#13

Acetone

Concen: 48.038 ug/L

RT: 2.22 min Scan# 352

Delta R.T. 0.03 min

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Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

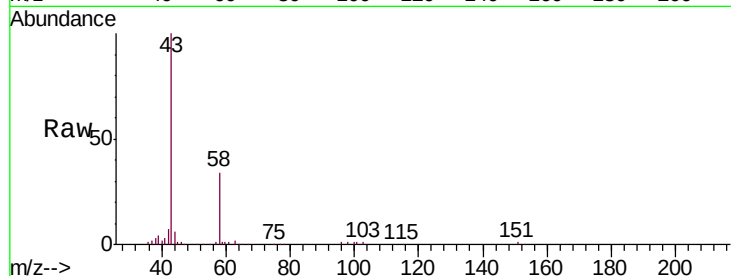
VSTD02588

Tgt Ion: 43 Resp: 204619

Ion Ratio Lower Upper

43 100

58 32.7 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VV013065.D (-352) (-)

Ion 58.00 (57.70 to 58.70): VV013065.D (-352) (-)

2.22

60000

50000

40000

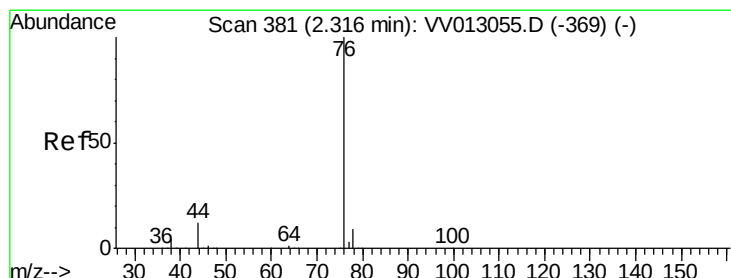
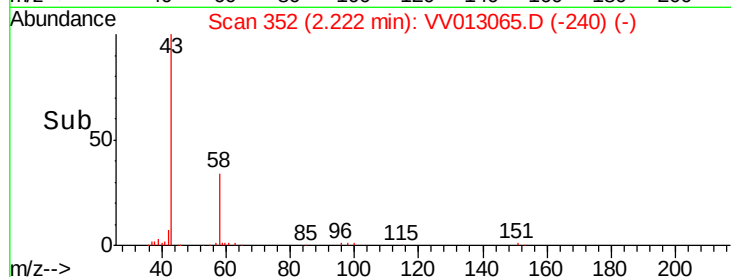
30000

20000

10000

0

Time--> 2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 25.414 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV013065.D

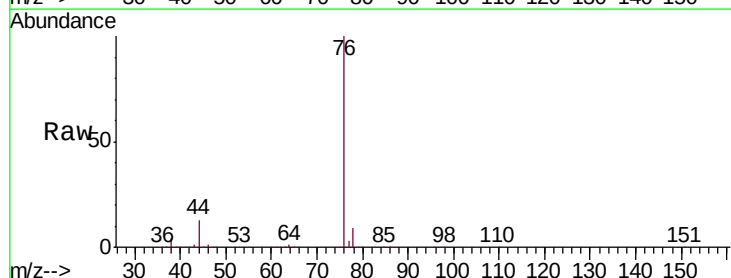
Acq: 09 Oct 2019 09:27

Tgt Ion: 76 Resp: 686462

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV013065.D (-381) (-)

Ion 78.00 (77.70 to 78.70): VV013065.D (-381) (-)

2.32

500000

400000

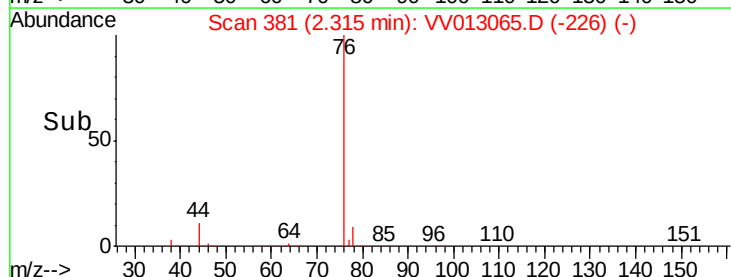
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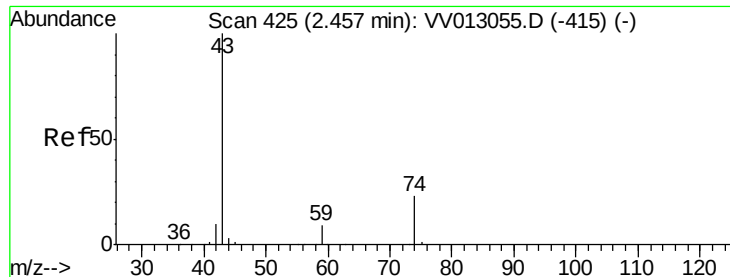
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100000

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Time--> 2.25 2.30 2.35 2.40

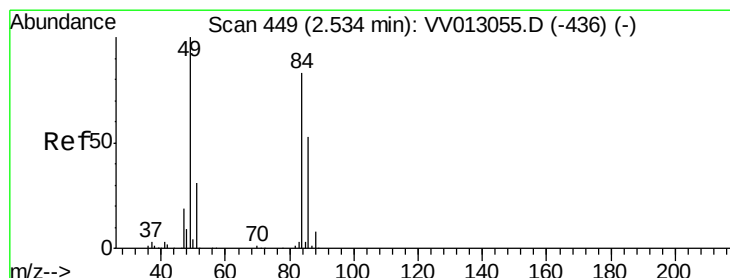
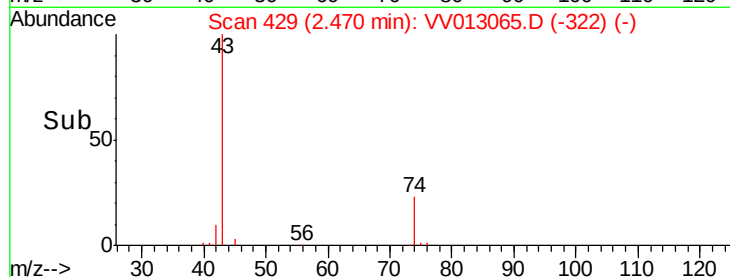
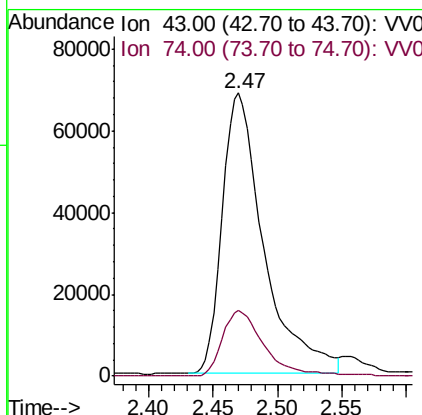
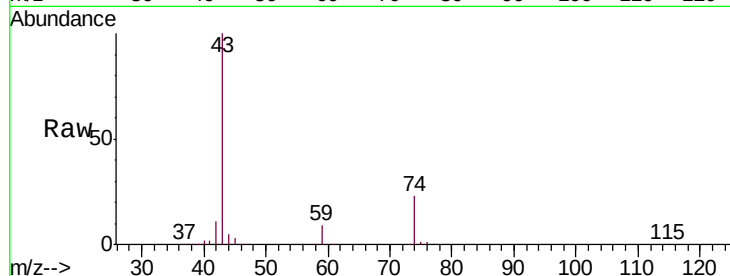




#15
Methyl Acetate
Concen: 23.257 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.01 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

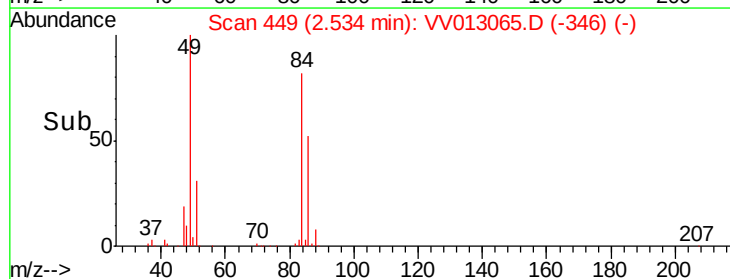
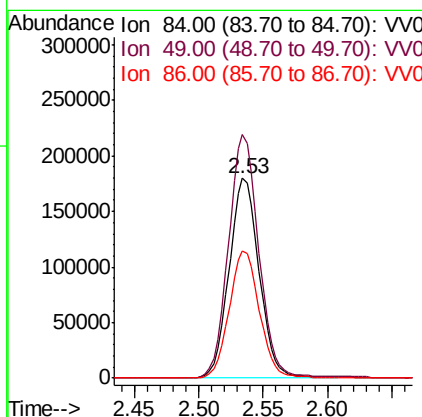
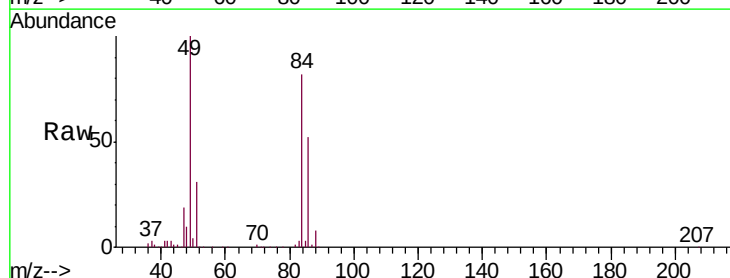
Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

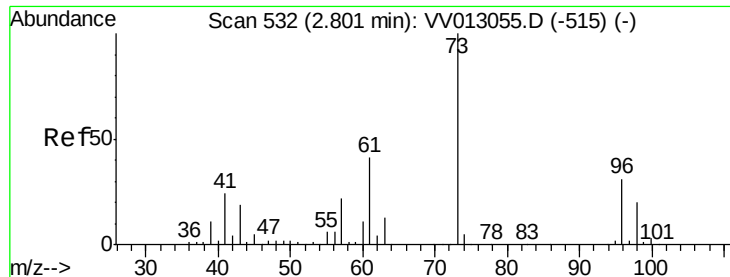
Tgt Ion: 43 Resp: 153647
Ion Ratio Lower Upper
43 100
74 22.7 18.8 28.2



#16
Methylene chloride
Concen: 26.093 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

Tgt Ion: 84 Resp: 291748
Ion Ratio Lower Upper
84 100
49 121.9 88.3 164.1
86 63.6 44.9 83.3

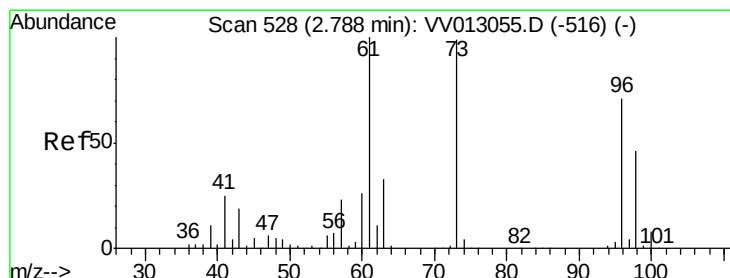
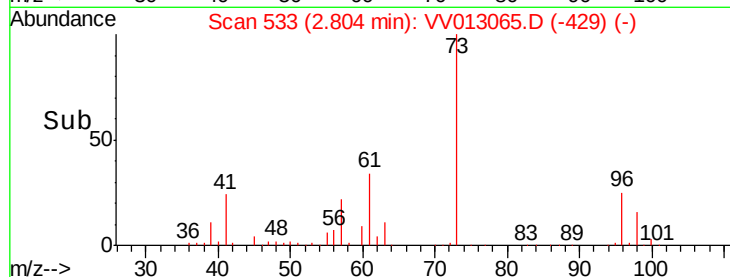
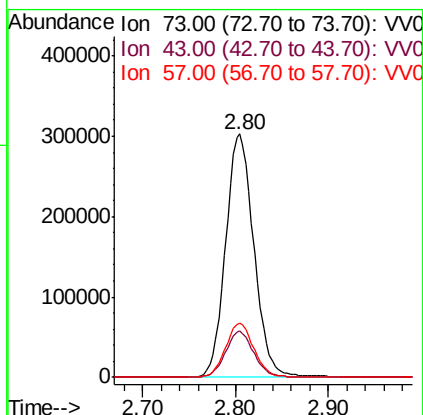
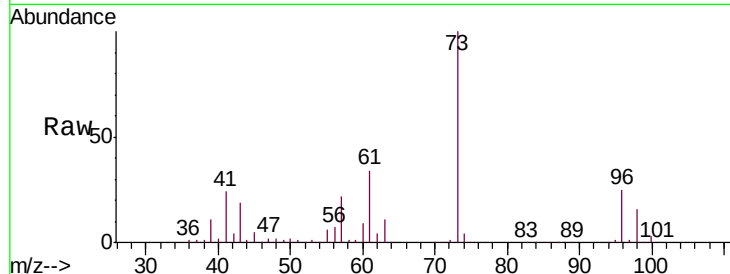




#17
Methyl tert-butyl Ether
Concen: 25.804 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

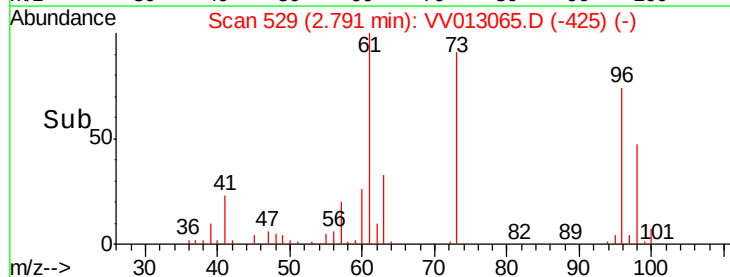
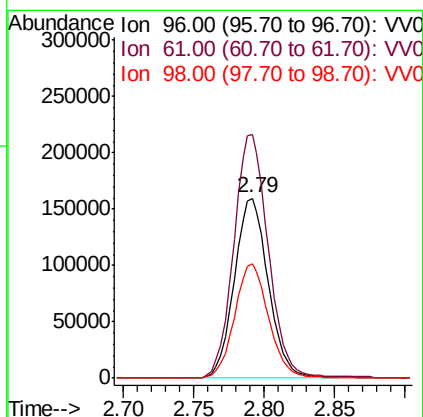
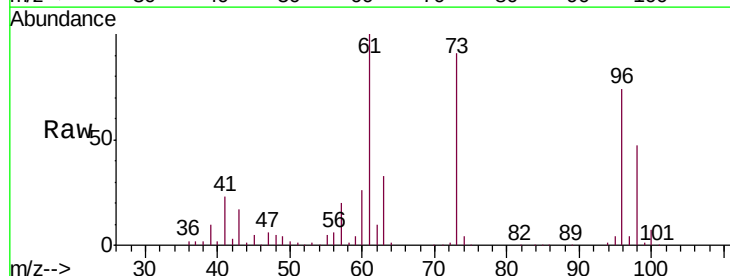
Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

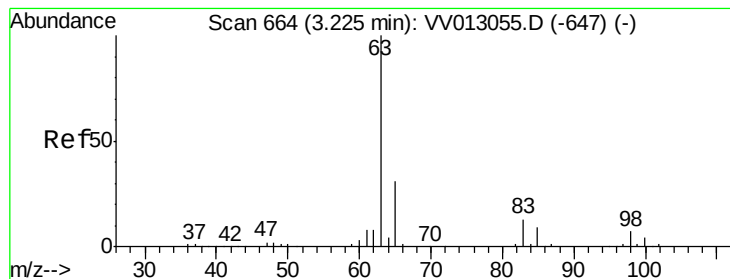
Tgt Ion: 73 Resp: 640246
Ion Ratio Lower Upper
73 100
43 18.7 15.0 22.6
57 22.2 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 26.951 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

Tgt Ion: 96 Resp: 269760
Ion Ratio Lower Upper
96 100
61 135.6 96.8 179.8
98 63.9 44.8 83.2





#19

1,1-Dichloroethane

Concen: 27.289 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02588

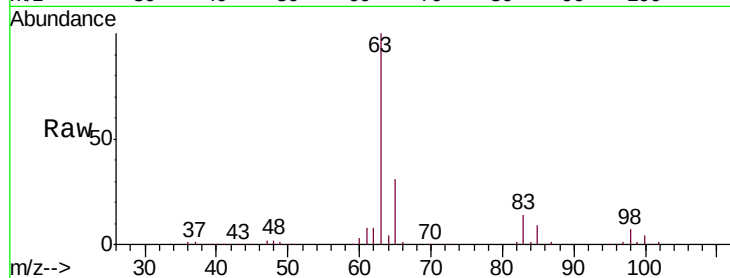
Tgt Ion: 63 Resp: 498461

Ion Ratio Lower Upper

63 100

65 31.2 22.0 41.0

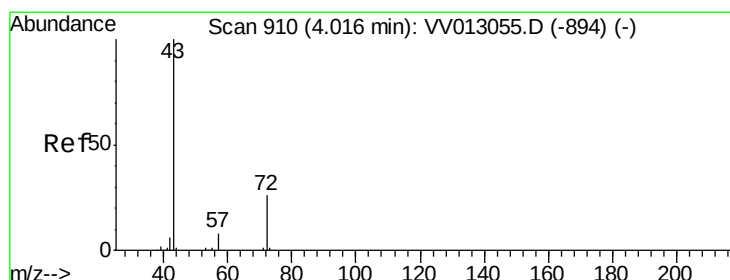
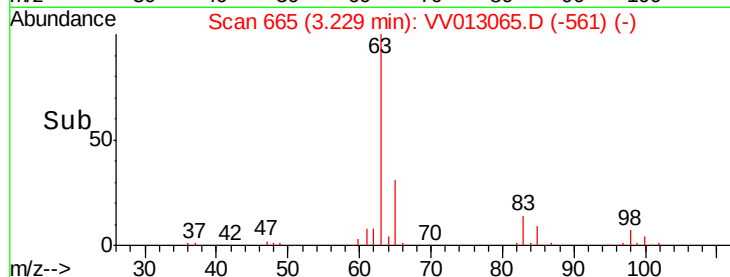
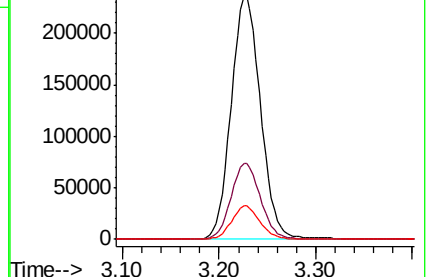
83 13.8 9.2 17.0



Abundance Ion 63.00 (62.70 to 63.70): VV013055.D (-647) (-)

Ion 65.00 (64.70 to 65.70): VV013055.D (-647) (-)

Ion 83.00 (82.70 to 83.70): VV013055.D (-647) (-)



#21

2-Butanone

Concen: 45.197 ug/L

RT: 4.04 min Scan# 916

Delta R.T. 0.02 min

Lab File: VV013065.D

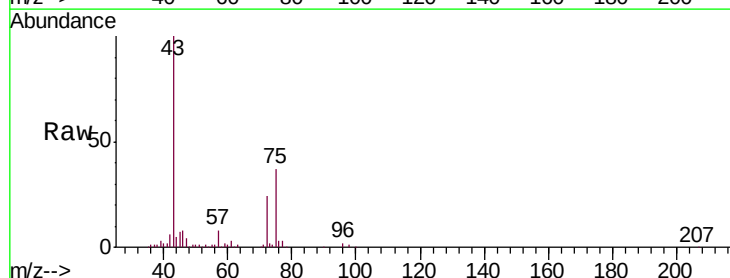
Acq: 09 Oct 2019 09:27

Tgt Ion: 43 Resp: 224047

Ion Ratio Lower Upper

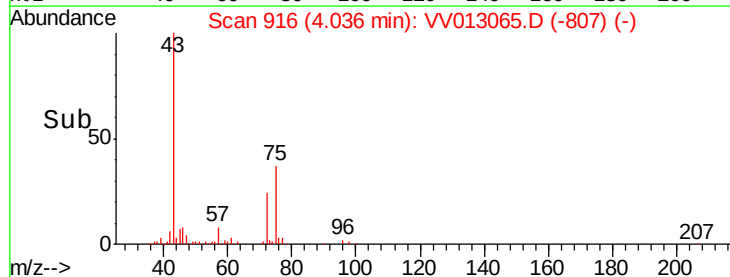
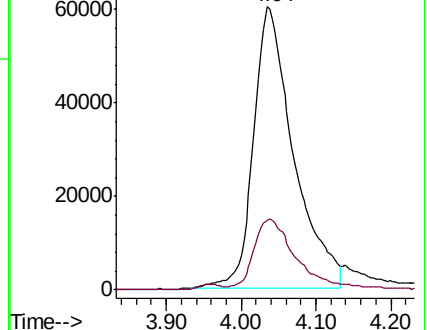
43 100

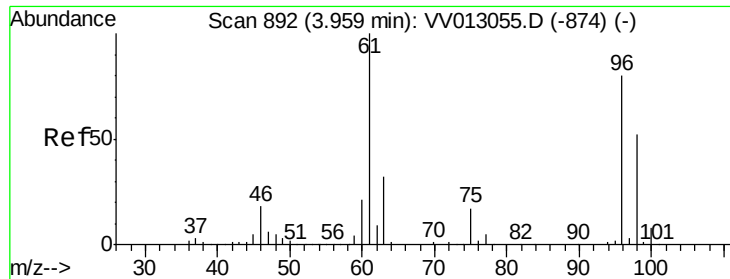
72 24.7 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VV013055.D (-894) (-)

Ion 72.00 (71.70 to 72.70): VV013055.D (-894) (-)



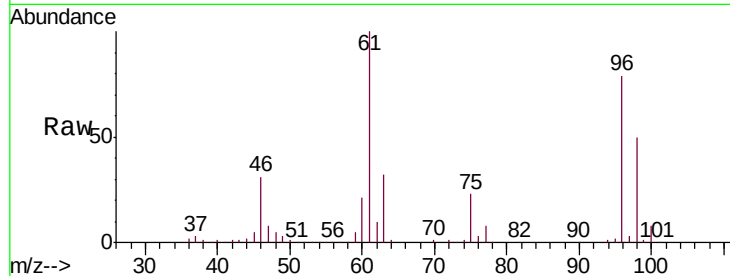


#22

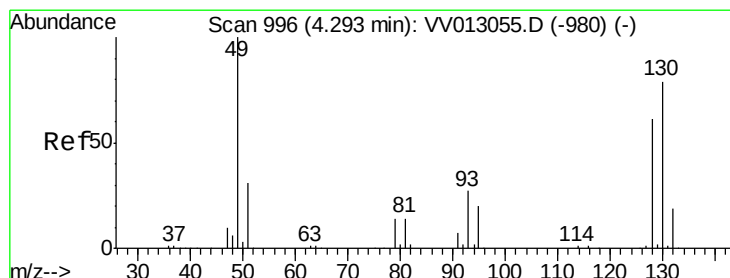
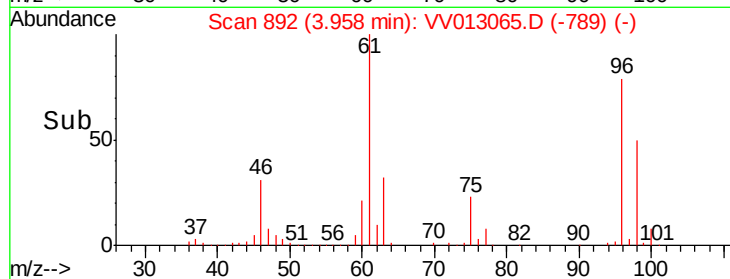
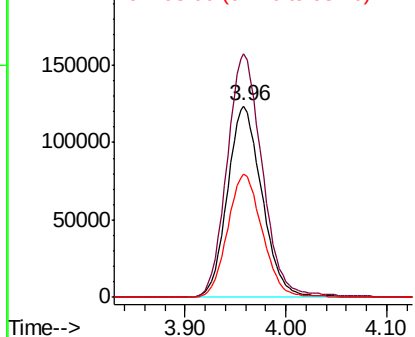
cis-1,2-Dichloroethene
Concen: 26.865 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

Tgt Ion: 96 Resp: 294298
Ion Ratio Lower Upper
96 100
61 127.0 90.9 168.7
98 64.1 45.6 84.6



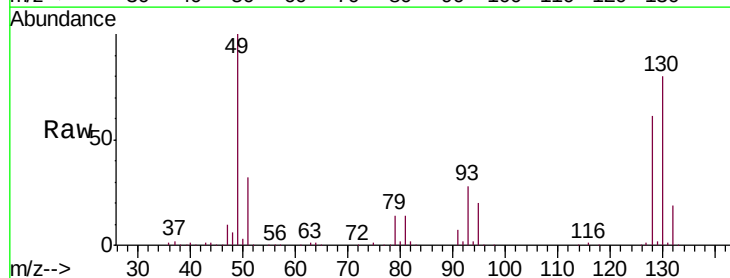
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



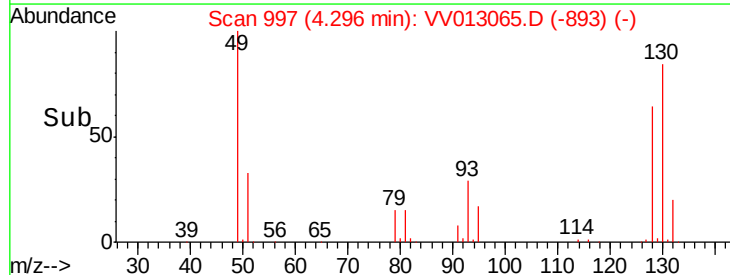
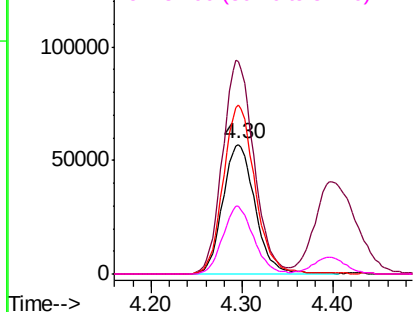
#23

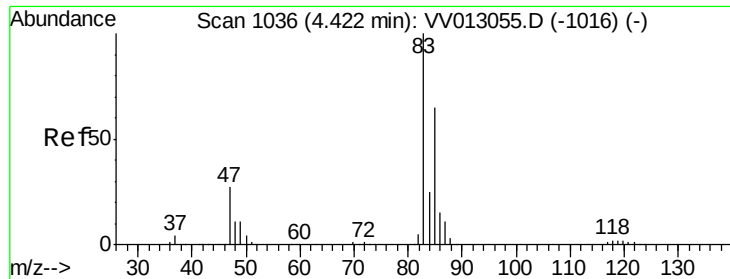
Bromochloromethane
Concen: 25.931 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

Tgt Ion: 128 Resp: 140309
Ion Ratio Lower Upper
128 100
49 164.2 114.4 212.6
130 130.8 88.5 164.4
51 52.0 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

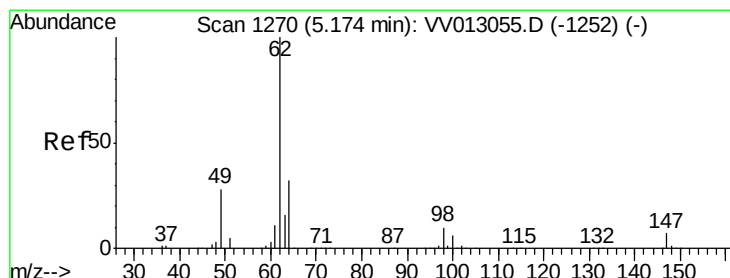
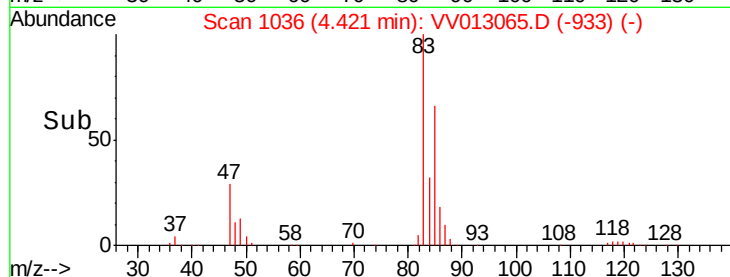
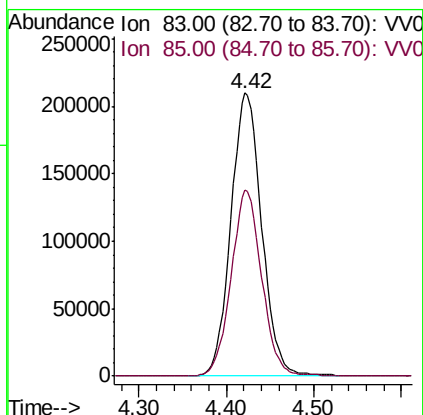
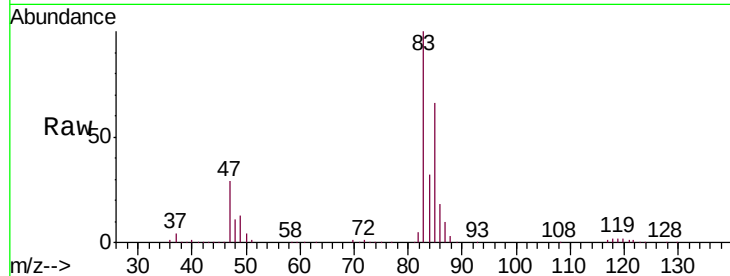




#25
Chloroform
Concen: 26.779 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

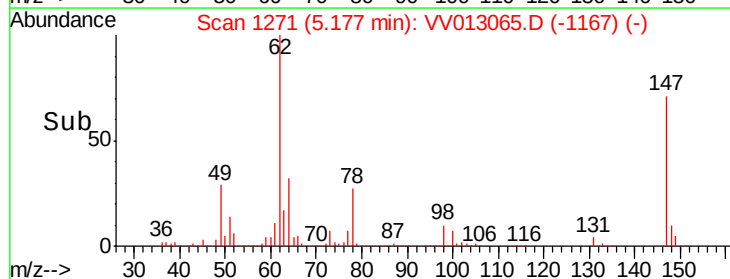
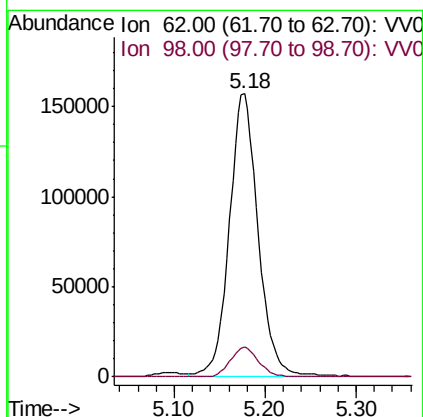
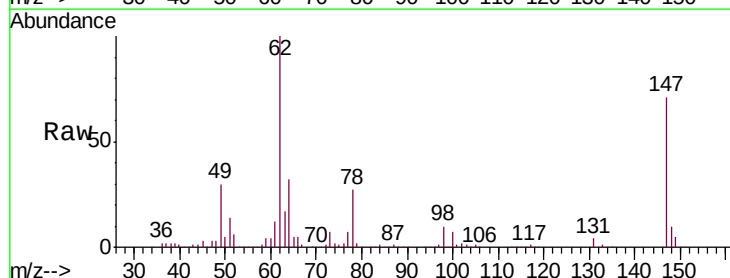
Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

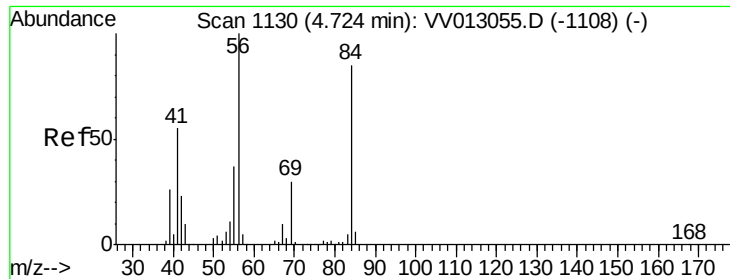
Tgt Ion: 83 Resp: 512863
Ion Ratio Lower Upper
83 100
85 65.1 45.8 85.0



#27
1,2-Dichloroethane
Concen: 25.311 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

Tgt Ion: 62 Resp: 342615
Ion Ratio Lower Upper
62 100
98 10.4 8.2 12.4

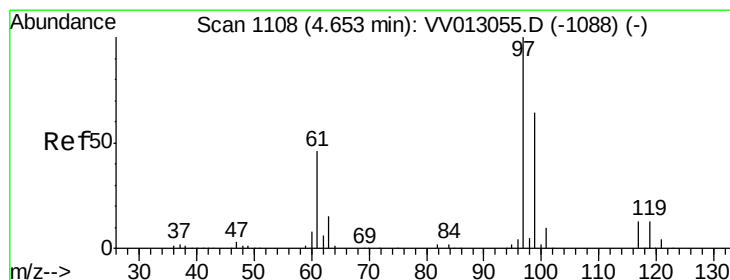
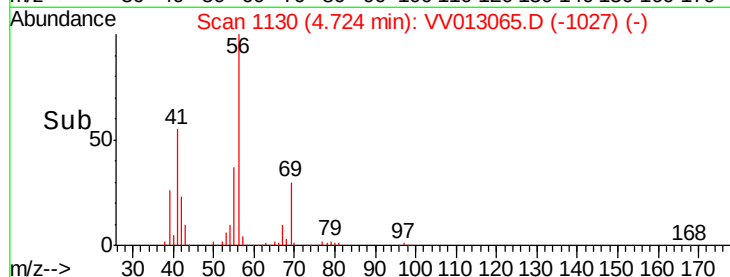
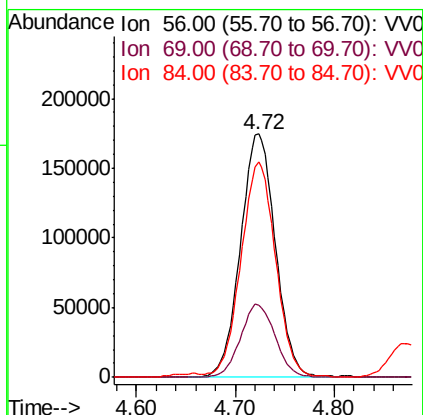
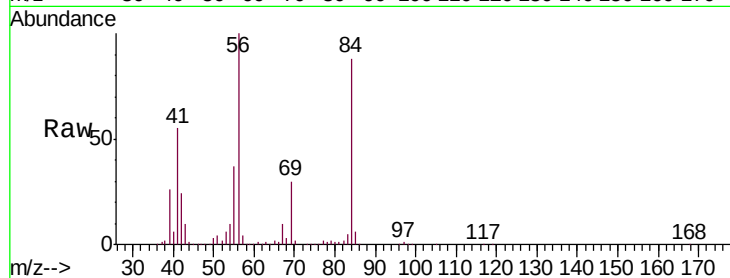




#30
Cyclohexane
Concen: 27.322 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

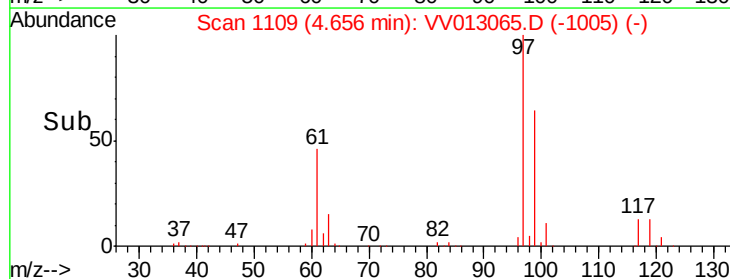
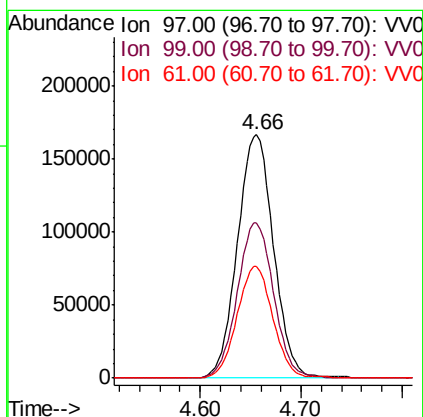
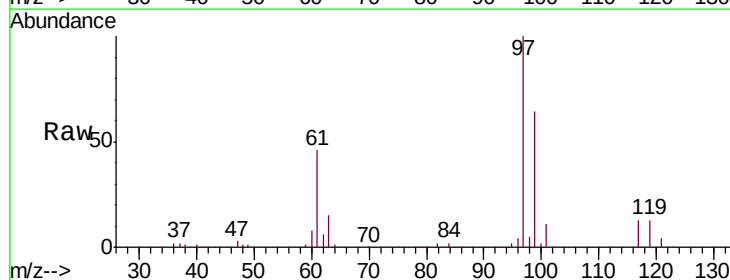
Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

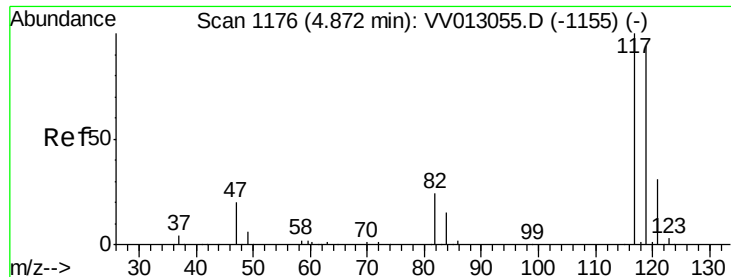
Tgt Ion: 56 Resp: 426487
Ion Ratio Lower Upper
56 100
69 30.1 23.8 35.8
84 87.1 68.4 102.6



#31
1,1,1-Trichloroethane
Concen: 28.725 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV013065.D
Acq: 09 Oct 2019 09:27

Tgt Ion: 97 Resp: 413635
Ion Ratio Lower Upper
97 100
99 64.3 51.7 77.5
61 45.4 37.8 56.8





#32

Carbon tetrachloride

Concen: 28.176 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

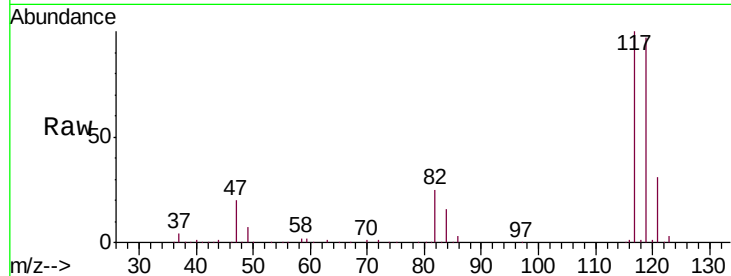
VSTD02588

Tgt Ion:117 Resp: 367902

Ion Ratio Lower Upper

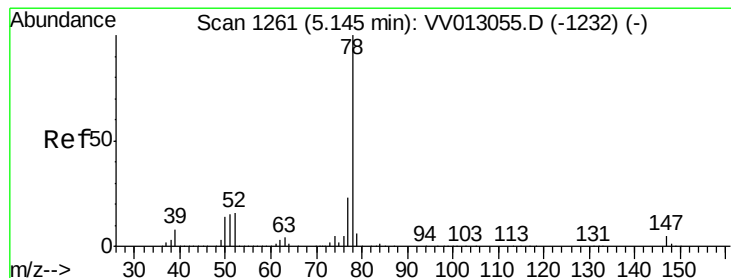
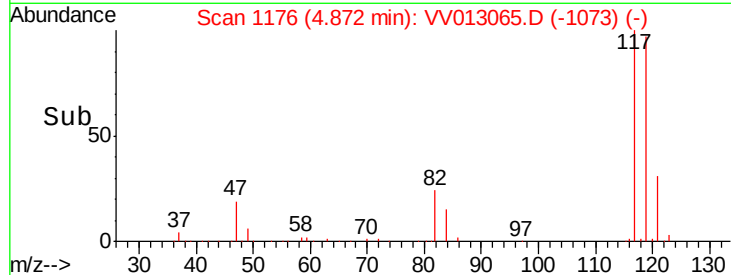
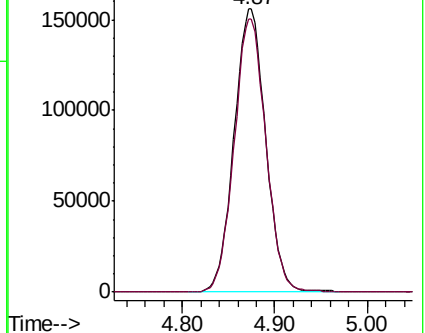
117 100

119 96.9 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: 28.104 ug/L

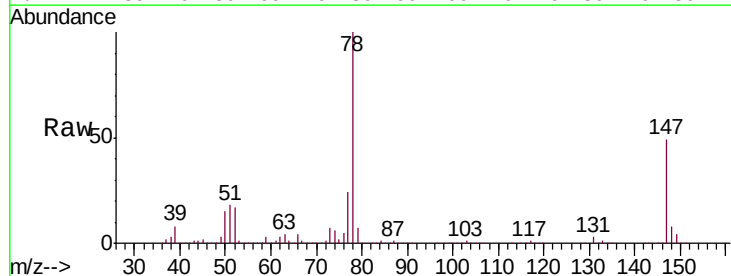
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

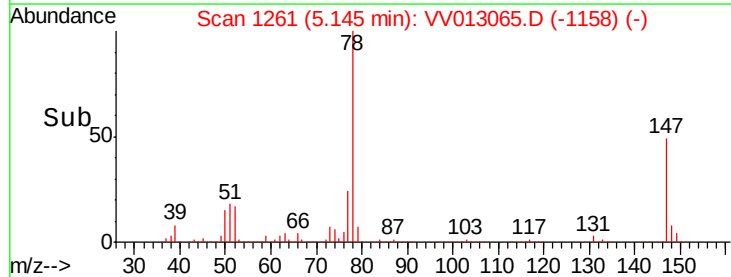
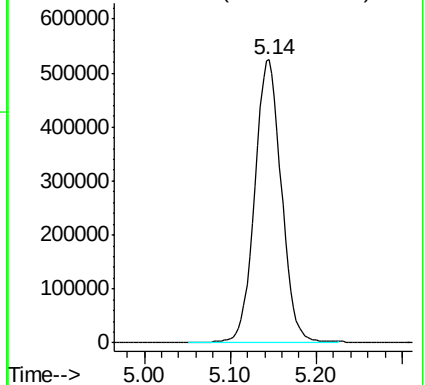
Lab File: VV013065.D

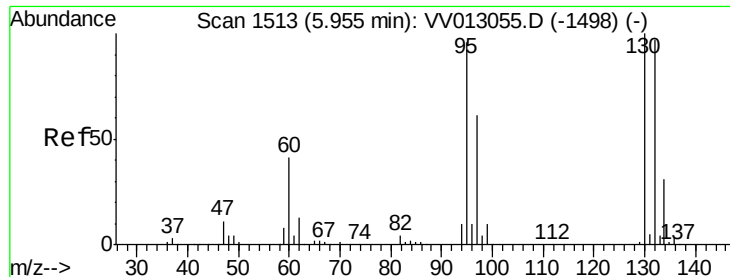
Acq: 09 Oct 2019 09:27

Tgt Ion: 78 Resp: 1138214



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 26.724 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02588

Tgt Ion: 95 Resp: 301509

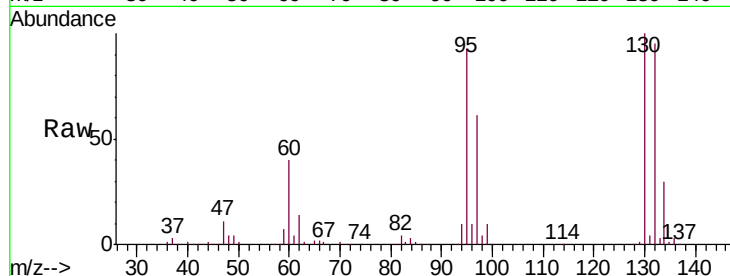
Ion Ratio Lower Upper

95 100

97 64.9 44.7 82.9

132 101.9 70.1 130.1

130 106.9 73.3 136.1

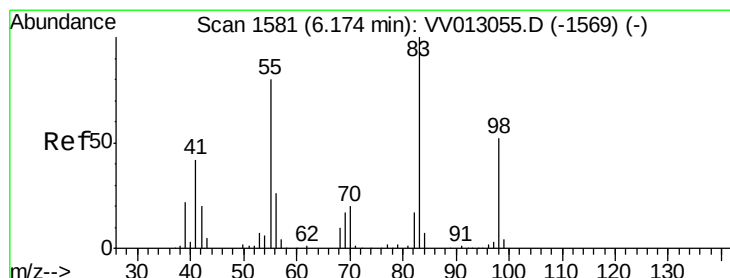
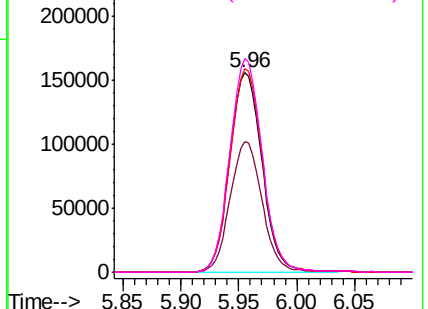
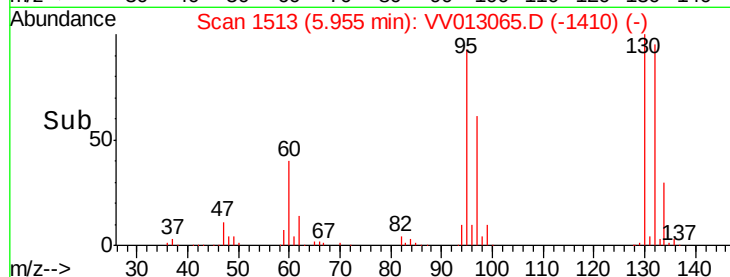


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 26.928 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

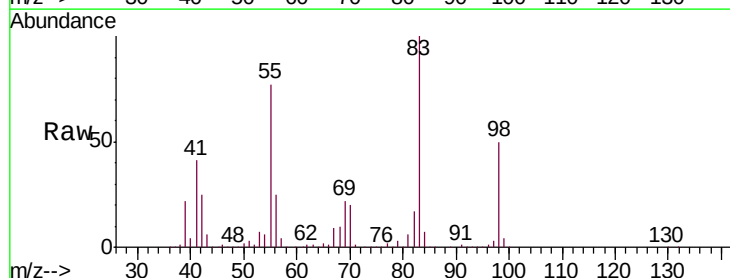
Tgt Ion: 83 Resp: 466390

Ion Ratio Lower Upper

83 100

55 77.0 61.8 92.8

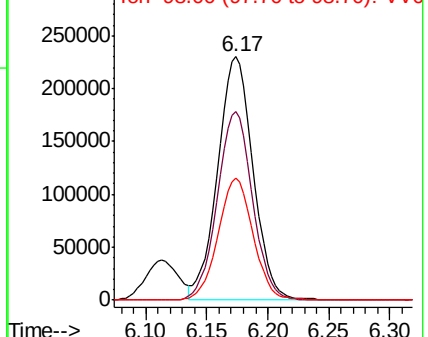
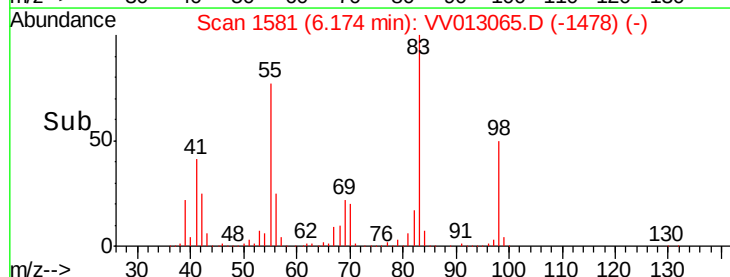
98 49.8 39.3 58.9

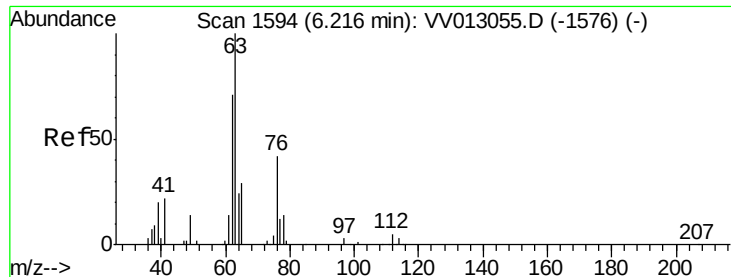


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 27.114 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

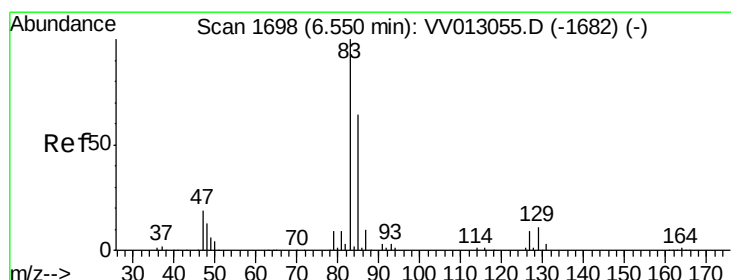
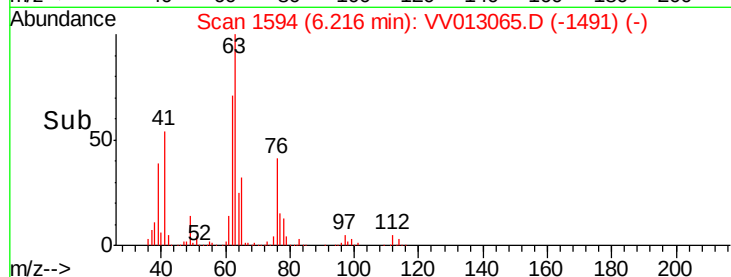
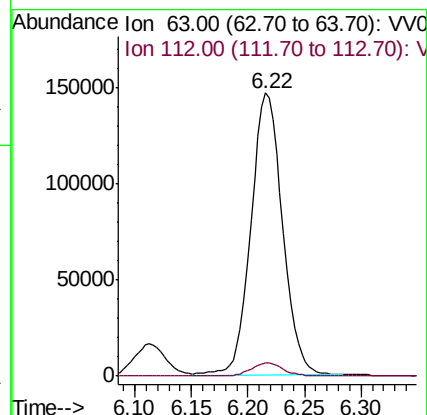
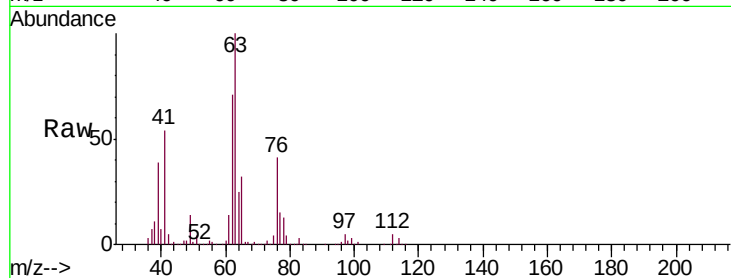
VSTD02588

Tgt Ion: 63 Resp: 285565

Ion Ratio Lower Upper

63 100

112 4.7 3.8 5.6



#41

Bromodichloromethane

Concen: 27.182 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

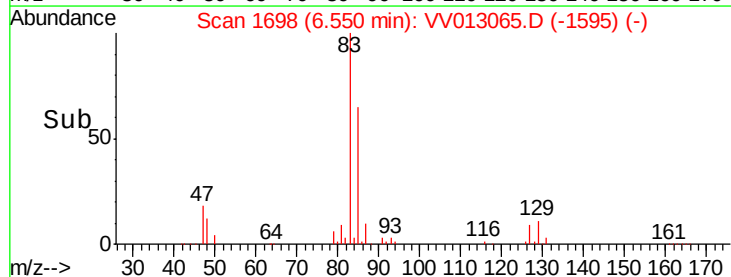
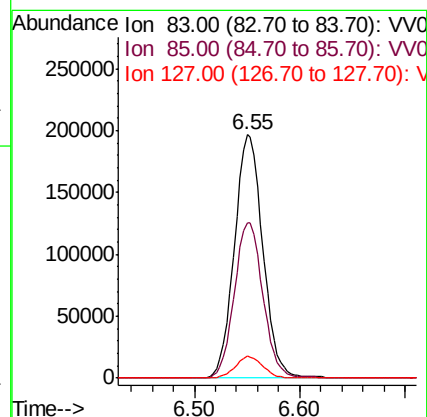
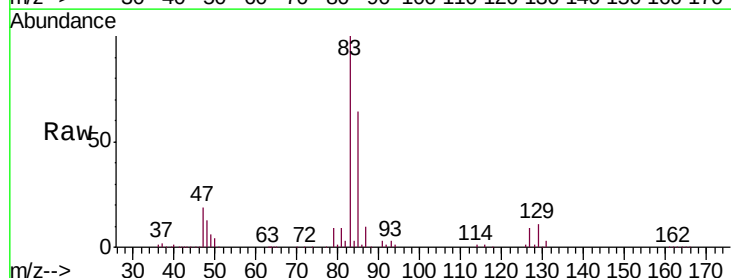
Tgt Ion: 83 Resp: 366685

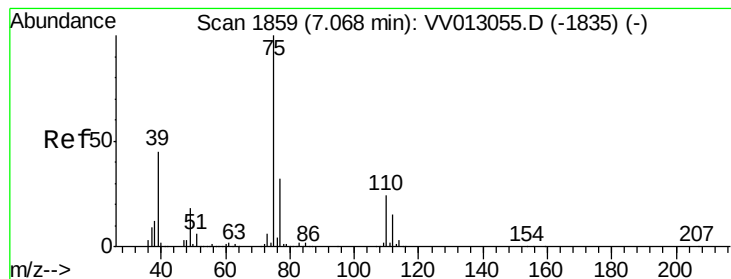
Ion Ratio Lower Upper

83 100

85 64.0 45.3 84.1

127 8.9 7.2 10.8





#42

cis-1,3-Dichloropropene

Concen: 27.585 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampled :

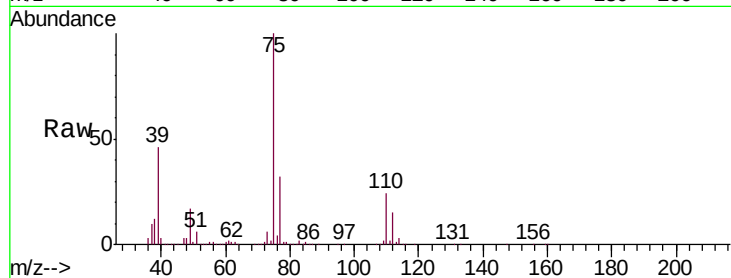
VSTD02588

Tgt Ion: 75 Resp: 426898

Ion Ratio Lower Upper

75 100

77 32.3 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV013055.D (-1835) (-)

Ion 77.00 (76.70 to 77.70): VV013055.D (-1835) (-)

7.07

250000

200000

150000

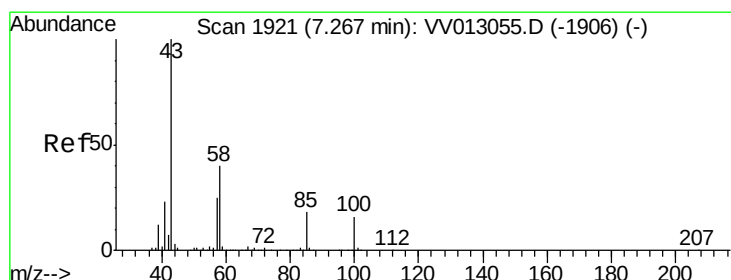
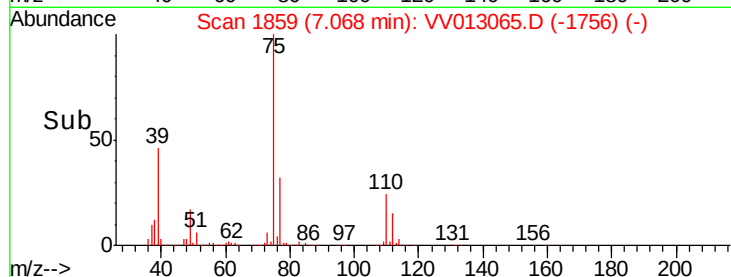
100000

50000

0

7.00 7.05 7.10 7.15

Time-->



#43

4-Methyl-2-pentanone

Concen: 50.267 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

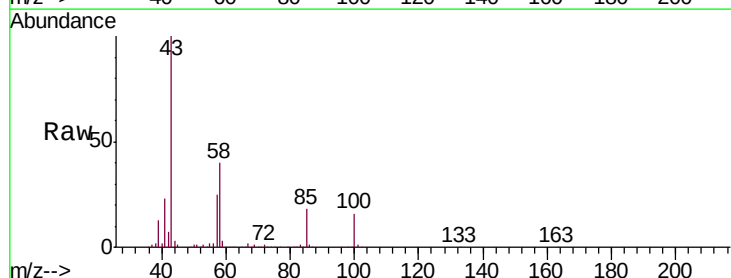
Tgt Ion: 43 Resp: 434962

Ion Ratio Lower Upper

43 100

58 38.3 31.2 46.8

100 15.6 12.2 18.2



Abundance Ion 43.00 (42.70 to 43.70): VV013055.D (-1906) (-)

Ion 58.00 (57.70 to 58.70): VV013055.D (-1906) (-)

Ion 100.00 (99.70 to 100.70): VV013055.D (-1906) (-)

7.27

500000

400000

300000

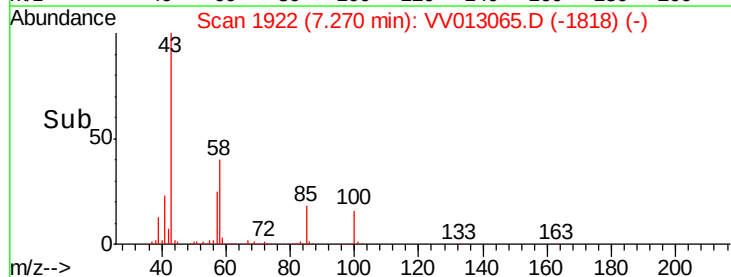
200000

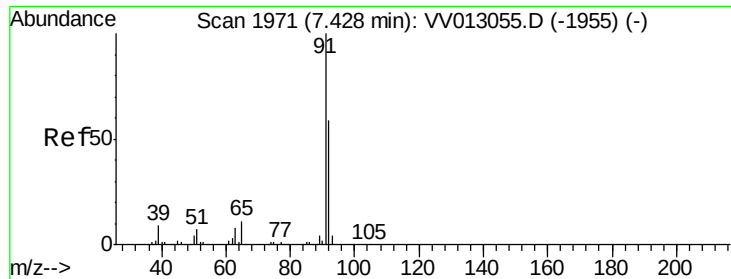
100000

0

7.20 7.30 7.40

Time-->





#44

Toluene

Concen: 29.016 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

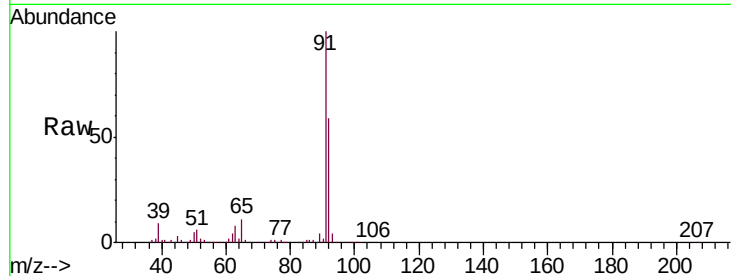
VSTD02588

Tgt Ion: 91 Resp: 1239432

Ion Ratio Lower Upper

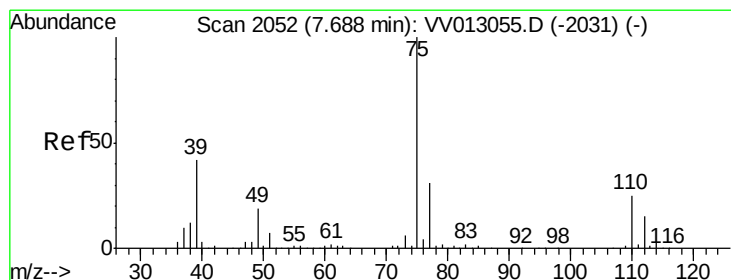
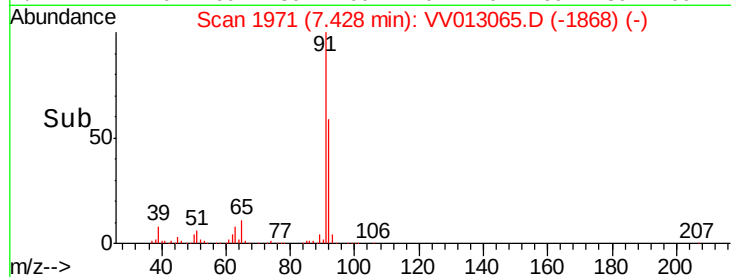
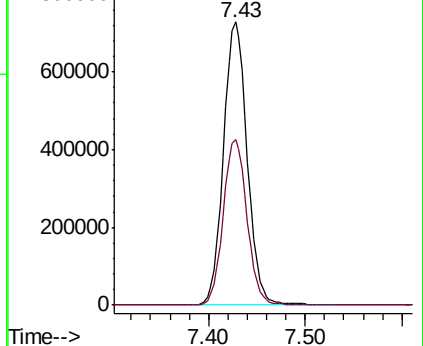
91 100

92 58.6 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: 27.444 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV013065.D

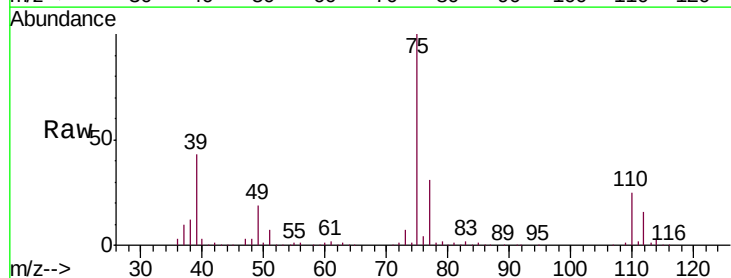
Acq: 09 Oct 2019 09:27

Tgt Ion: 75 Resp: 357455

Ion Ratio Lower Upper

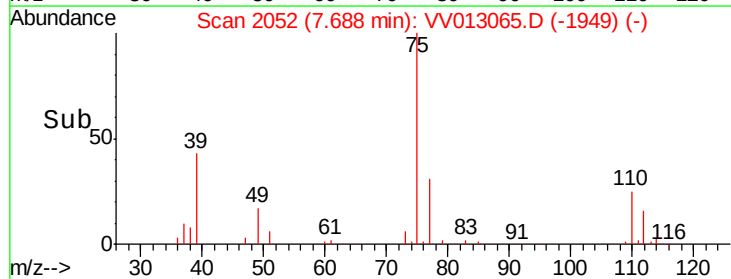
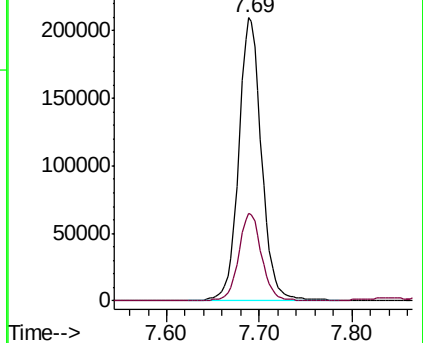
75 100

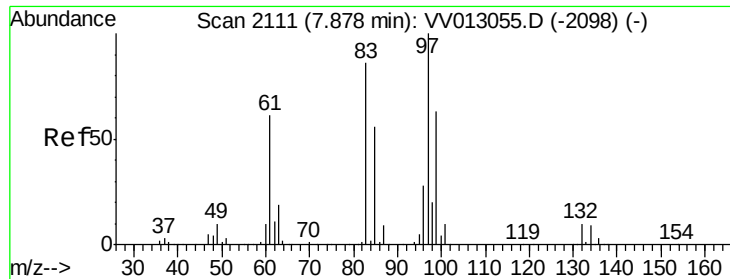
77 30.7 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

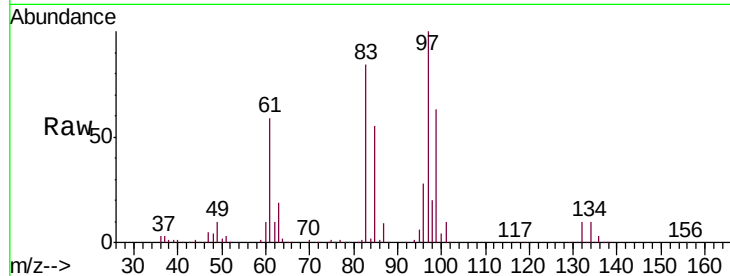




#46
 1,1,2-Trichloroethane
 Concen: 25.969 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02588

Tgt Ion:	97	Resp:	232201
Ion	Ratio	Lower	Upper
97	100		
83	83.7	58.9	109.5
85	54.6	38.4	71.2
99	62.6	43.8	81.4



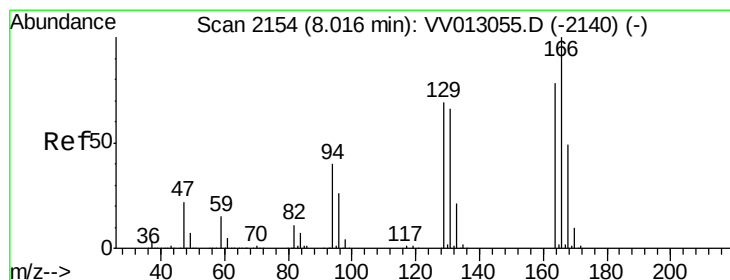
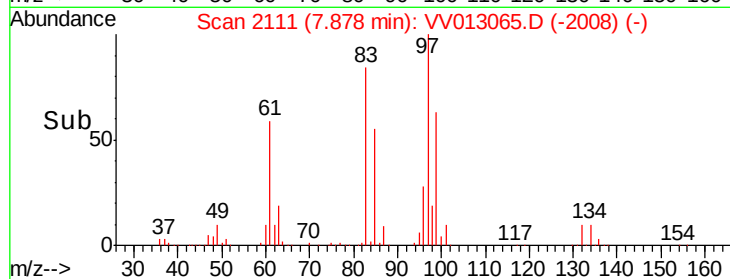
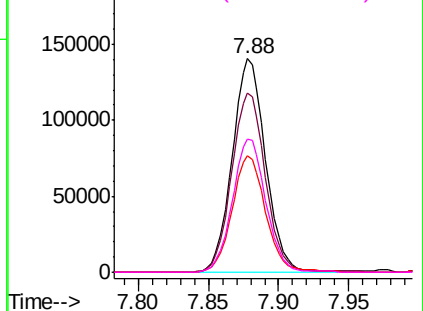
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

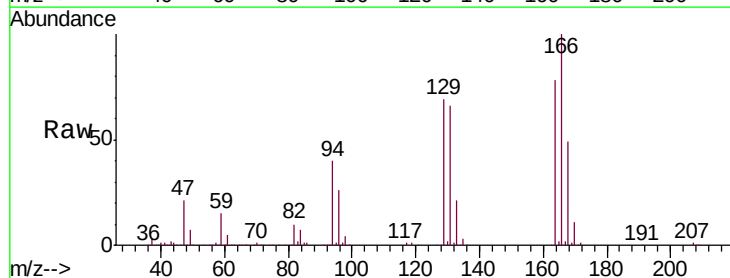
Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47
 Tetrachloroethene
 Concen: 27.484 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

Tgt Ion:	164	Resp:	252023
Ion	Ratio	Lower	Upper
164	100		
129	88.3	62.8	116.6
131	84.4	60.2	111.8
166	128.5	89.4	166.0



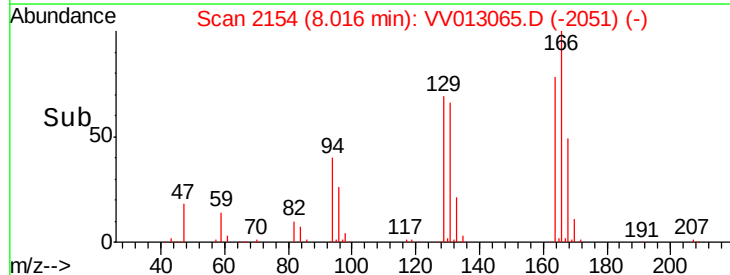
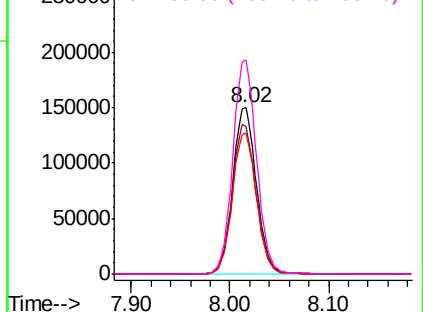
Abundance

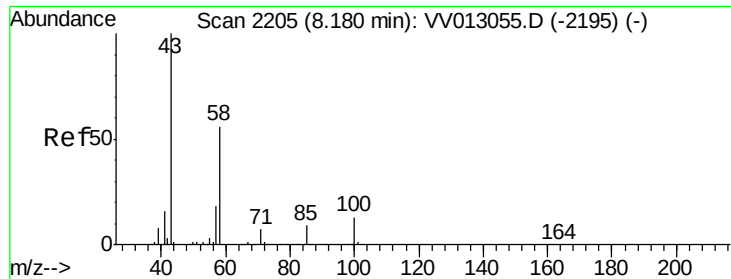
Ion 164.00 (163.70 to 164.70): V

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: 50.030 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02588

Tgt Ion: 43 Resp: 326325

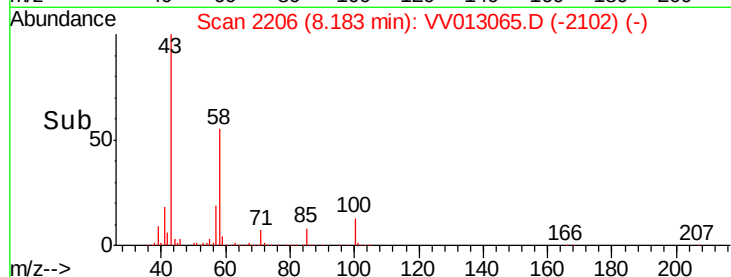
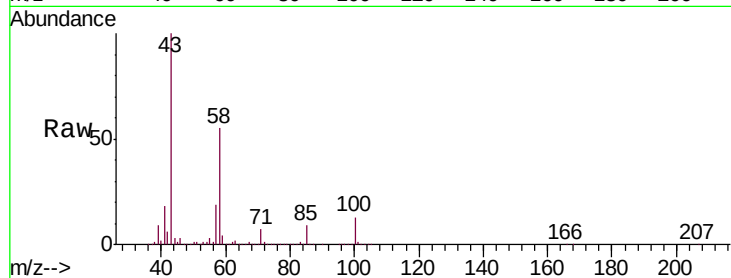
Ion Ratio Lower Upper

43 100

58 56.0 46.5 69.7

57 19.1 15.5 23.3

100 12.4 9.7 14.5

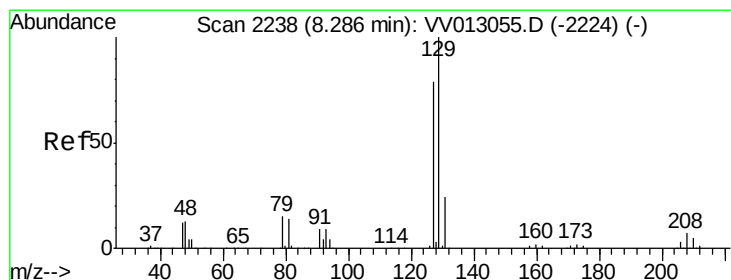
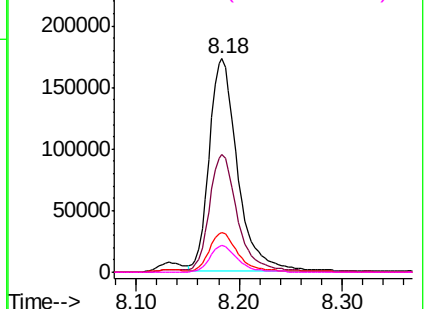


Abundance Ion 43.00 (42.70 to 43.70): VV013065.D (-2102) (-)

Ion 58.00 (57.70 to 58.70): VV013065.D (-2102) (-)

Ion 57.00 (56.70 to 57.70): VV013065.D (-2102) (-)

Ion 100.00 (99.70 to 100.70): VV013065.D (-2102) (-)



#50

Dibromochloromethane

Concen: 26.616 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. -0.00 min

Lab File: VV013065.D

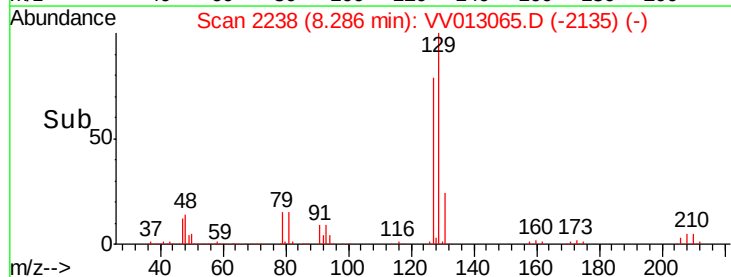
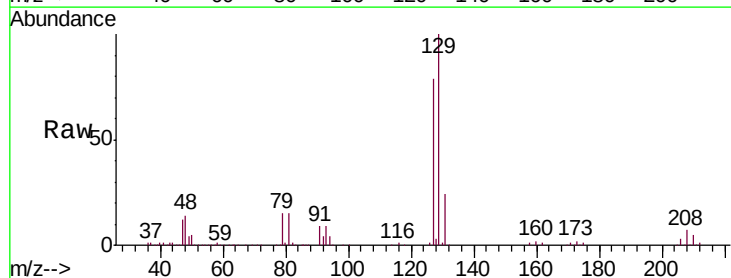
Acq: 09 Oct 2019 09:27

Tgt Ion: 129 Resp: 273529

Ion Ratio Lower Upper

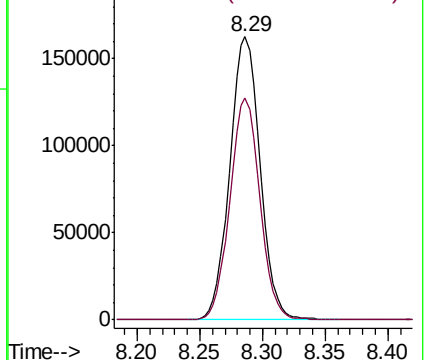
129 100

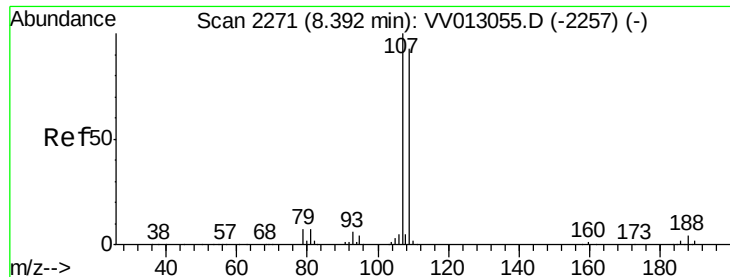
127 78.6 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): VV013065.D (-2135) (-)

Ion 127.00 (126.70 to 127.70): VV013065.D (-2135) (-)





#51

1,2-Dibromoethane

Concen: 25.956 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02588

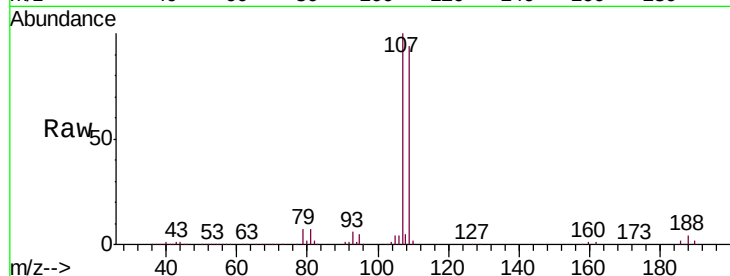
Tgt Ion:107 Resp: 227425

Ion Ratio Lower Upper

107 100

109 93.9 66.1 122.8

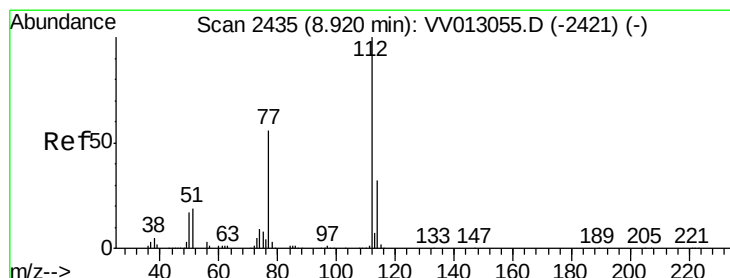
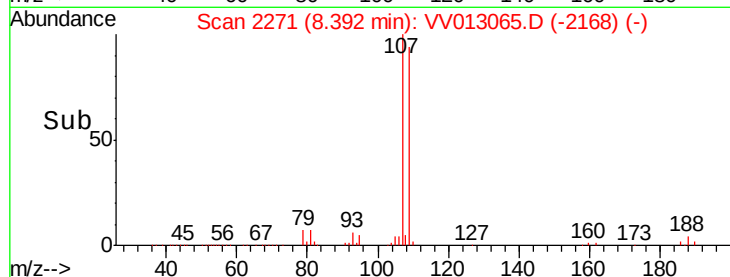
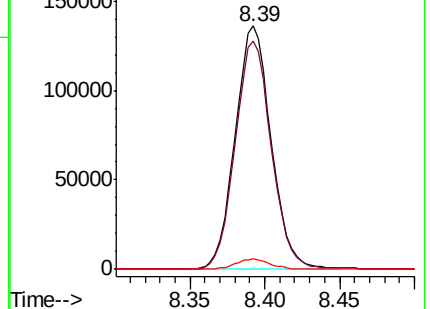
188 4.1 3.1 4.7



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



#52

Chlorobenzene

Concen: 27.374 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

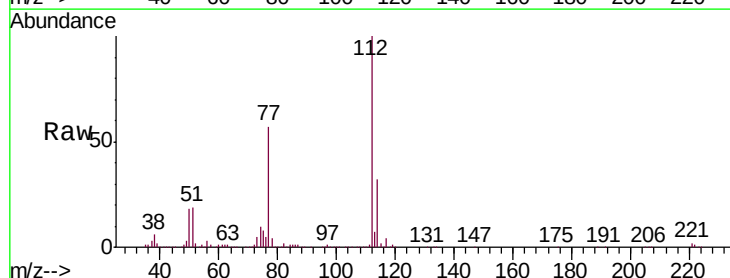
Tgt Ion:112 Resp: 806891

Ion Ratio Lower Upper

112 100

77 57.1 46.3 69.5

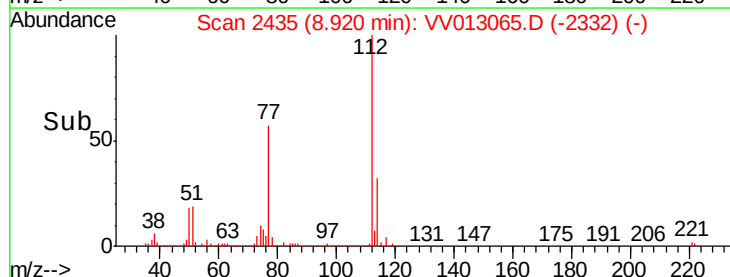
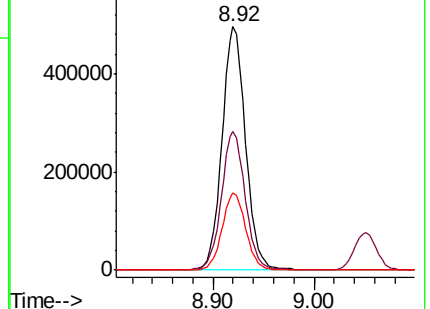
114 31.7 22.5 41.7

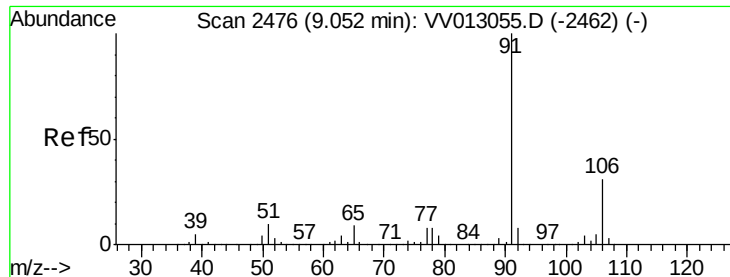


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 28.919 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

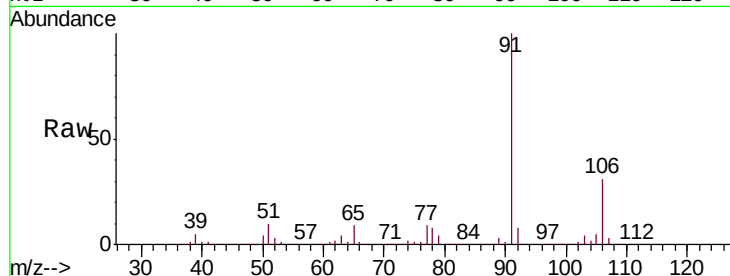
VSTD02588

Tgt Ion: 91 Resp: 1360111

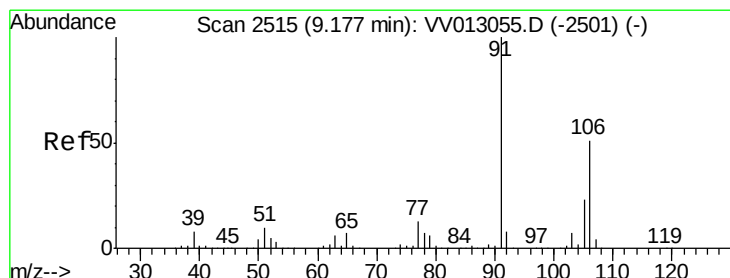
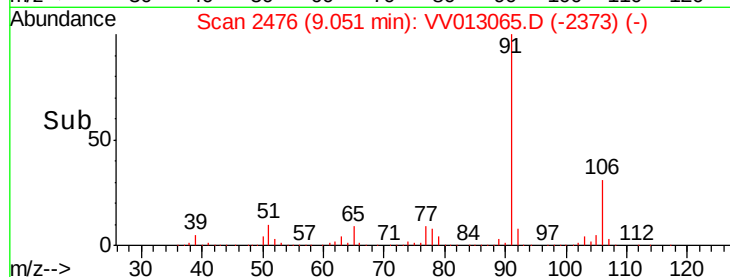
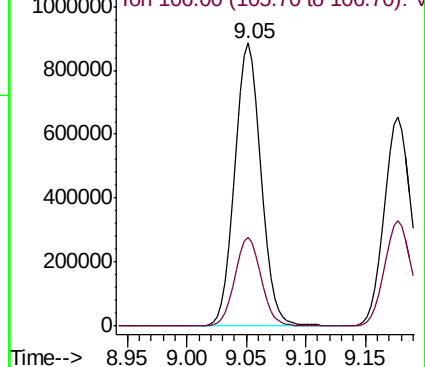
Ion Ratio Lower Upper

91 100

106 31.3 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV013055.D (-2462) (-)



#54

m,p-Xylene

Concen: 29.361 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013065.D

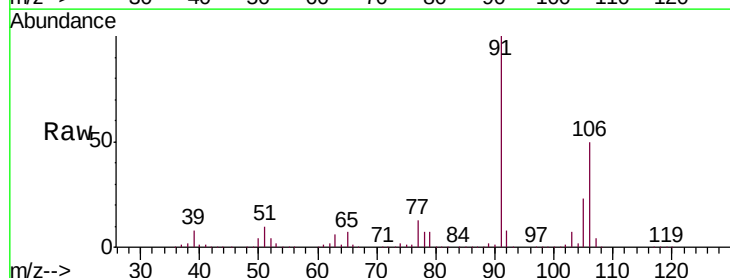
Acq: 09 Oct 2019 09:27

Tgt Ion: 106 Resp: 524967

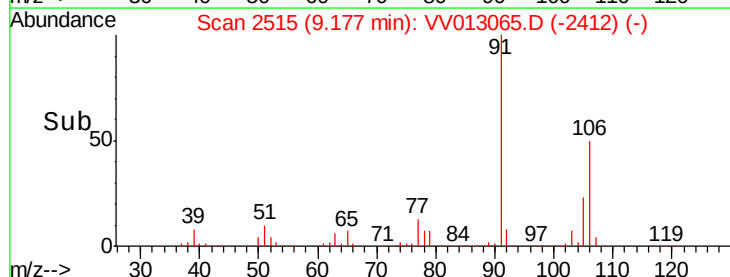
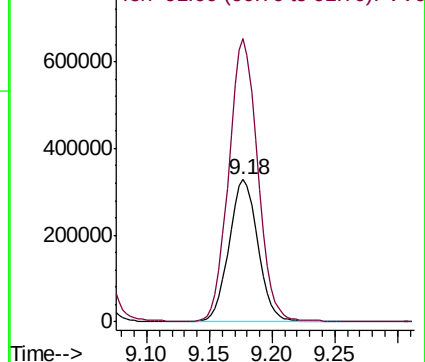
Ion Ratio Lower Upper

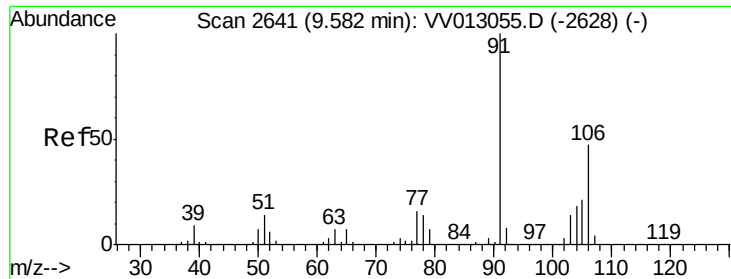
106 100

91 198.6 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): VV013055.D (-2501) (-)





#55

o-xylene

Concen: 29.375 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

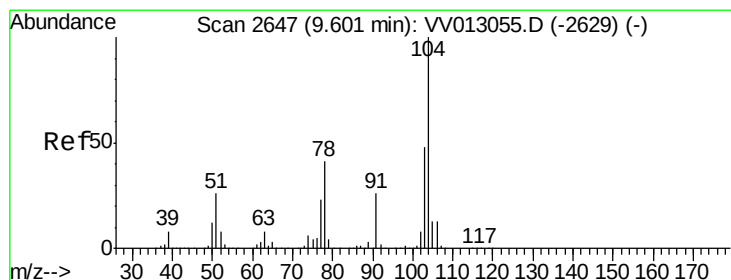
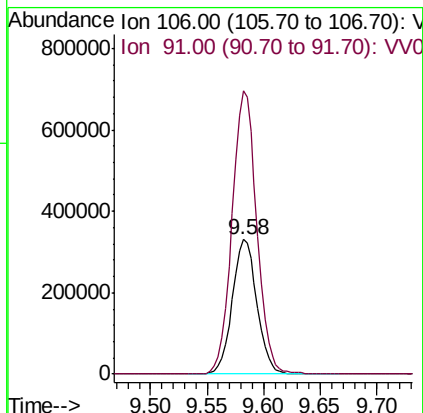
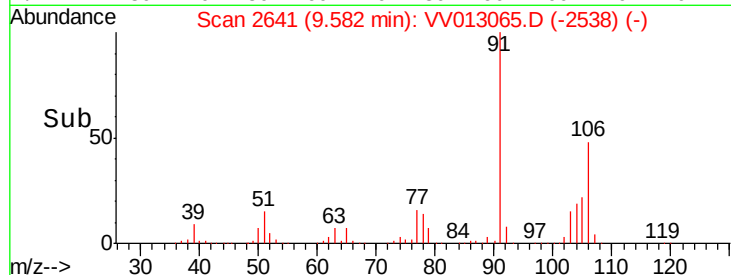
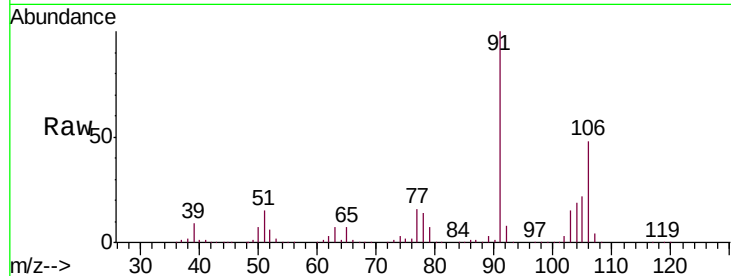
Instrument :
MSVOA_V
ClientSampleId :
VSTD02588

Tgt Ion:106 Resp: 500437

Ion Ratio Lower Upper

106 100

91 210.5 148.8 276.4



#56

Styrene

Concen: 29.543 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV013065.D

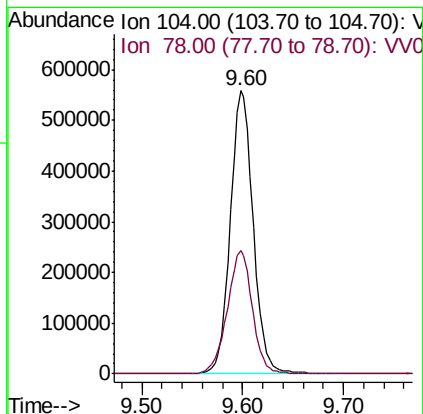
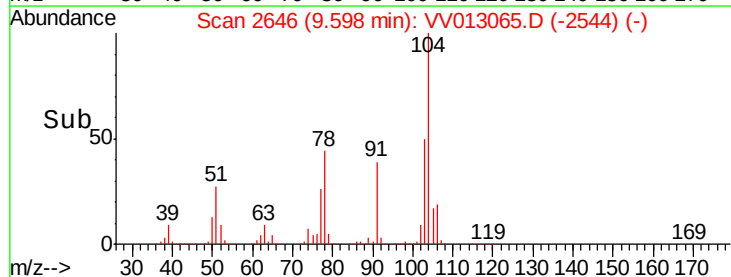
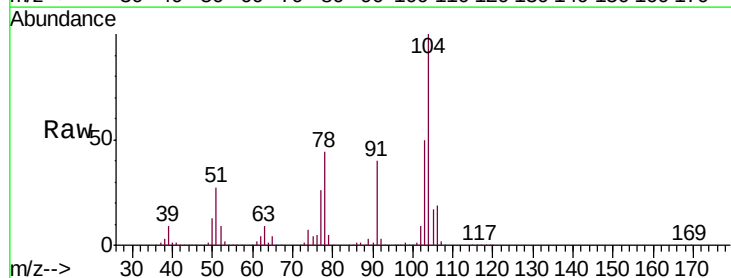
Acq: 09 Oct 2019 09:27

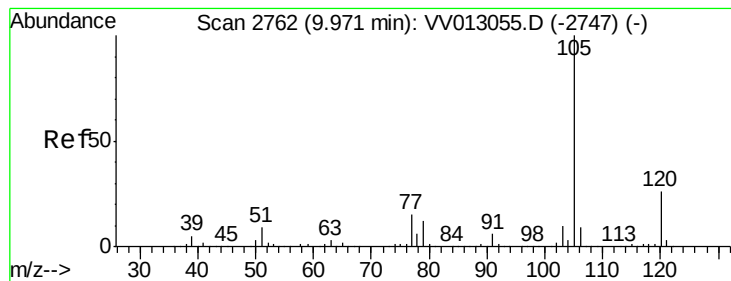
Tgt Ion:104 Resp: 885535

Ion Ratio Lower Upper

104 100

78 43.7 29.8 55.3





#57

Isopropylbenzene

Concen: 29.939 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02588

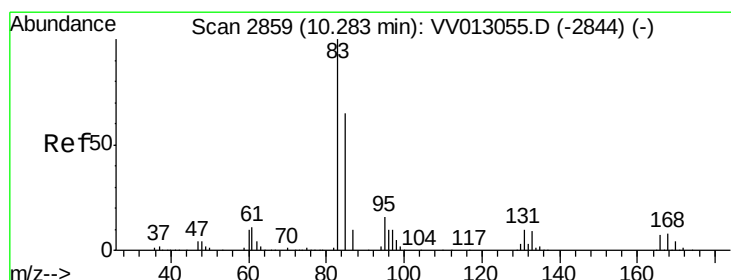
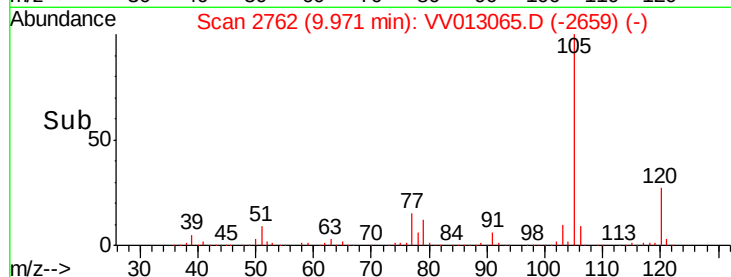
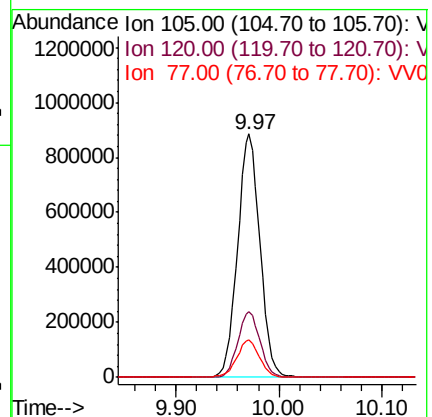
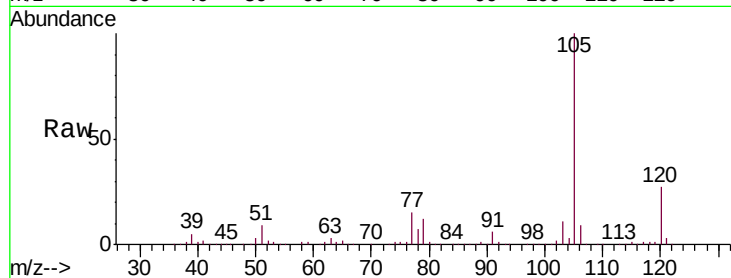
Tgt Ion: 105 Resp: 1340400

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

77 15.7 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 25.484 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

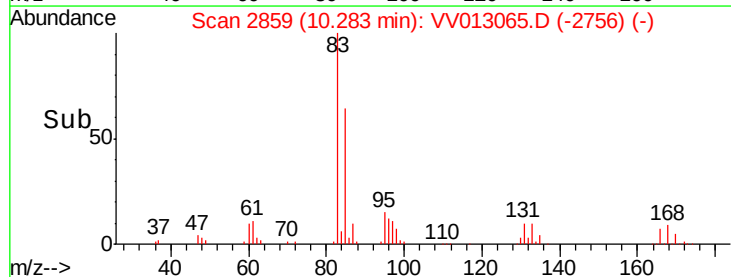
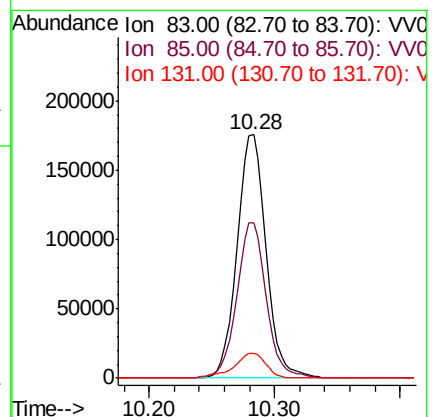
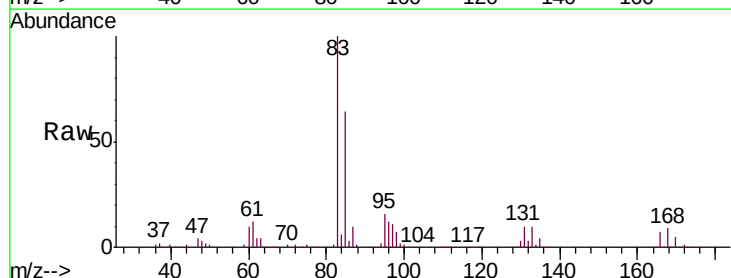
Tgt Ion: 83 Resp: 281864

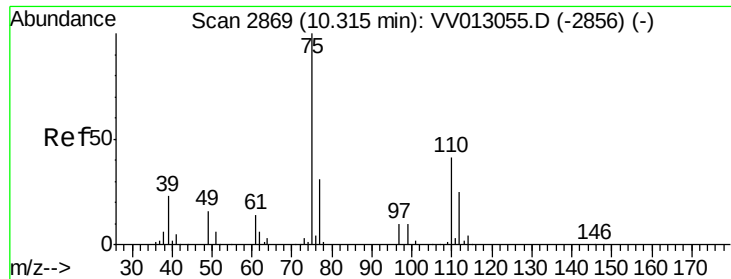
Ion Ratio Lower Upper

83 100

85 63.9 45.4 84.2

131 10.1 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 24.399 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

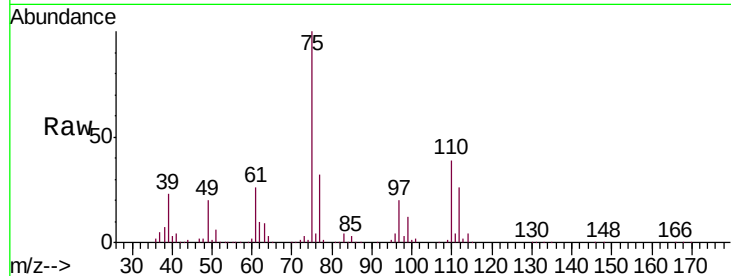
VSTD02588

Tgt Ion: 75 Resp: 222732

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV013055.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV013055.D (-2856) (-)

10.32

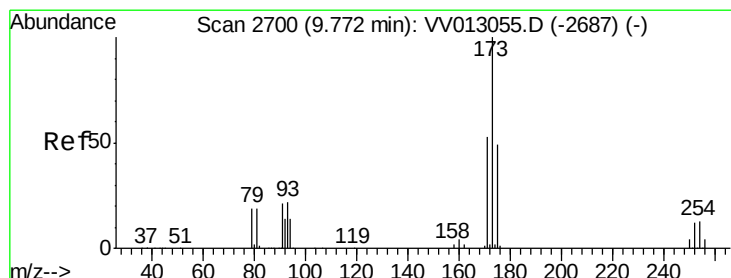
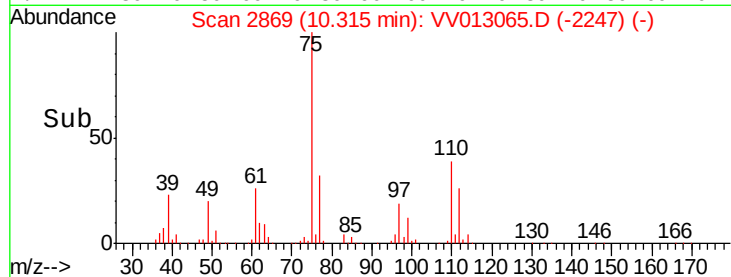
150000

100000

50000

0

Time--> 10.20 10.30 10.40



#62

Bromoform

Concen: 26.391 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

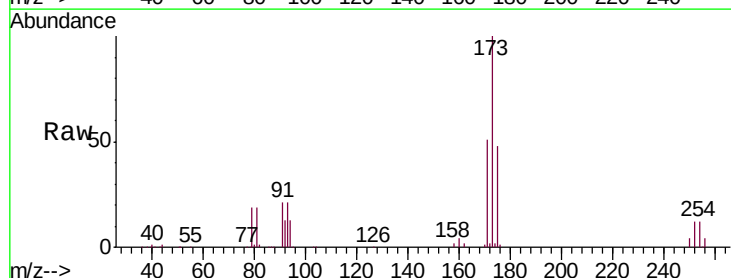
Tgt Ion: 173 Resp: 175013

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): VV013055.D (-2687) (-)

Ion 175.00 (174.70 to 175.70): VV013055.D (-2687) (-)

Ion 254.00 (253.70 to 254.70): VV013055.D (-2687) (-)

9.77

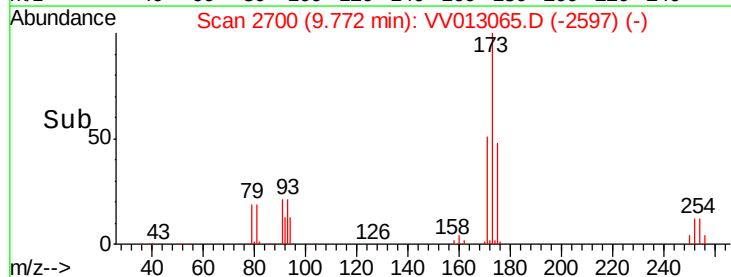
150000

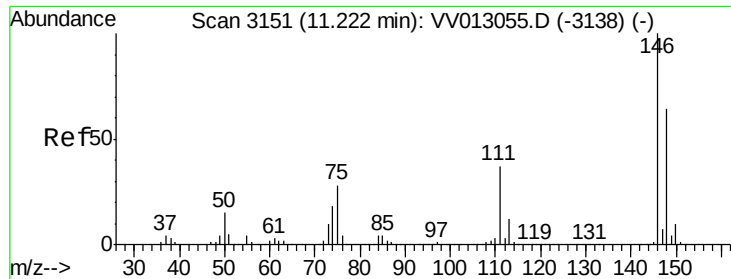
100000

50000

0

Time--> 9.70 9.75 9.80 9.85 9.90

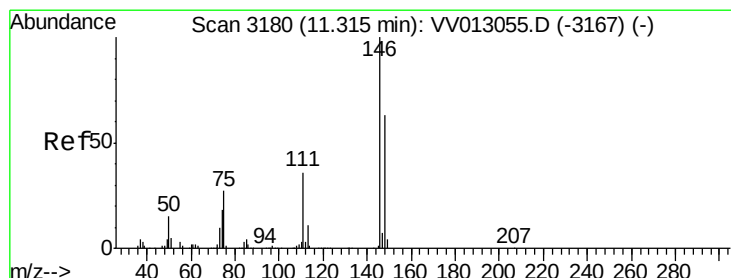
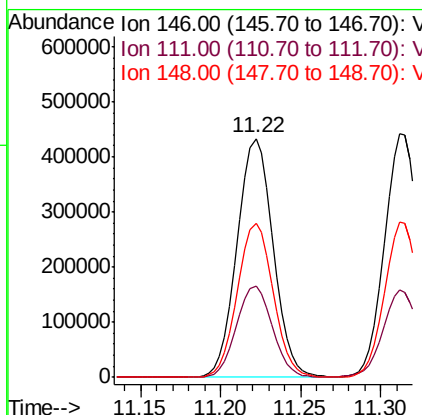
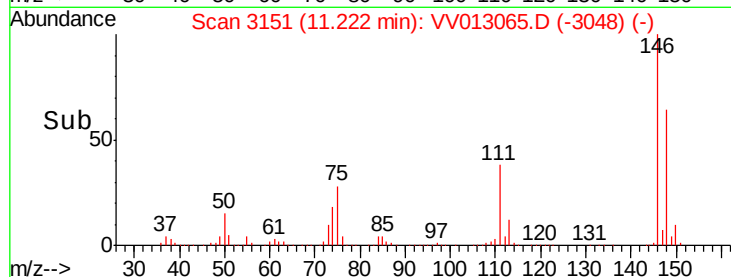
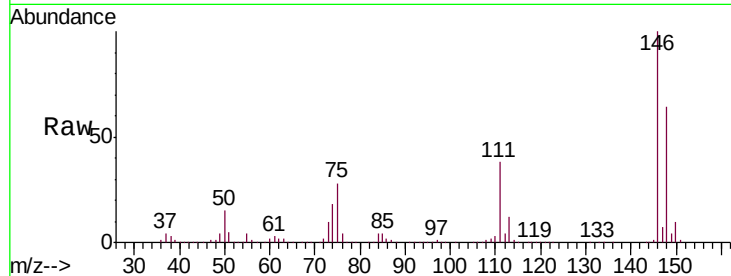




#63
 1,3-Dichlorobenzene
 Concen: 27.613 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

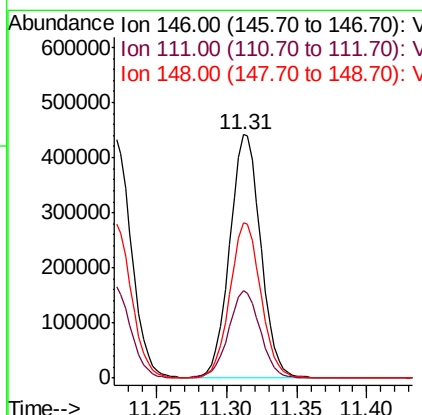
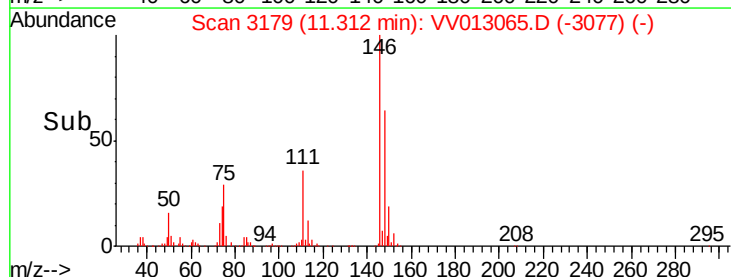
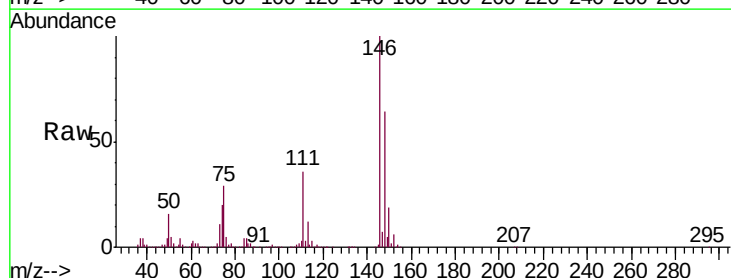
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02588

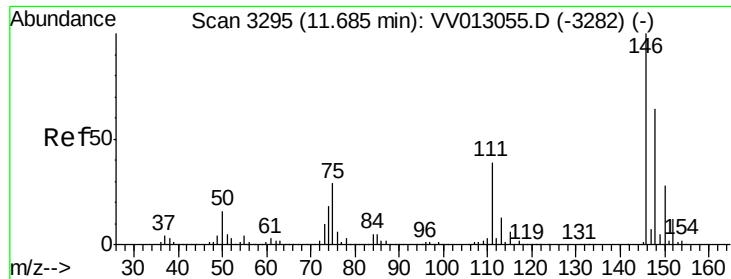
Tgt Ion:146 Resp: 664237
 Ion Ratio Lower Upper
 146 100
 111 38.2 26.7 49.7
 148 64.5 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 26.935 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

Tgt Ion:146 Resp: 680019
 Ion Ratio Lower Upper
 146 100
 111 35.7 25.5 47.3
 148 63.7 45.1 83.9

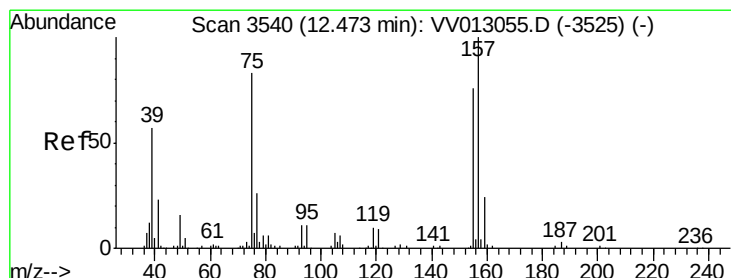
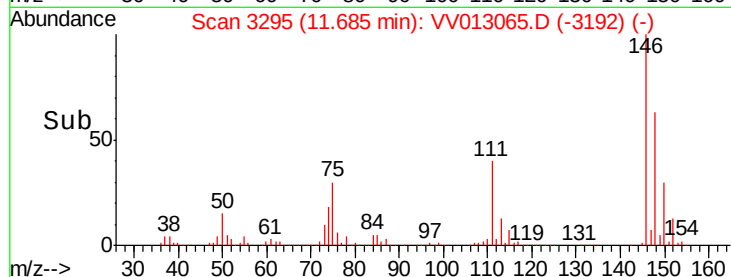
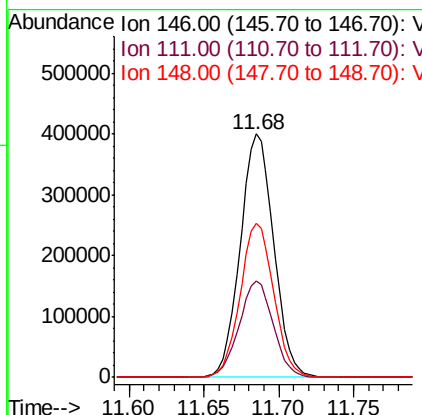
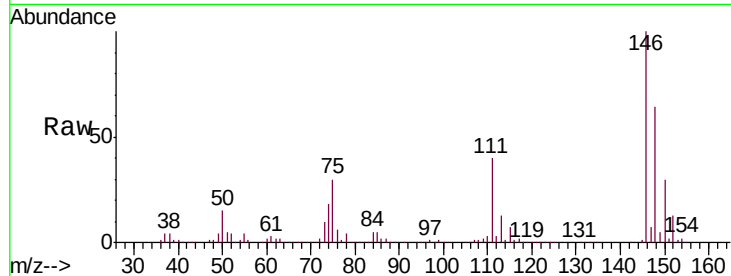




#65
 1,2-Dichlorobenzene
 Concen: 27.129 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

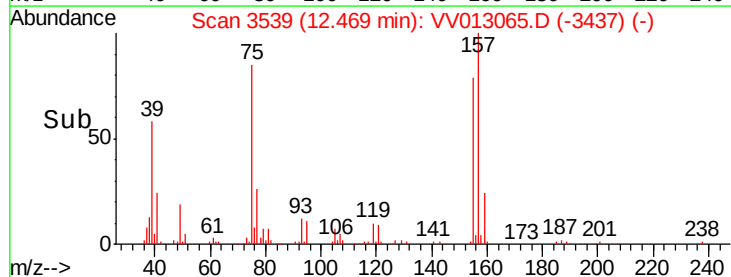
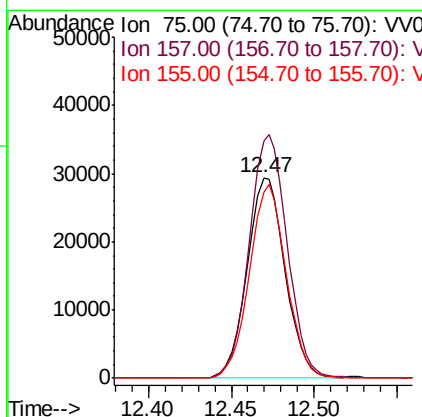
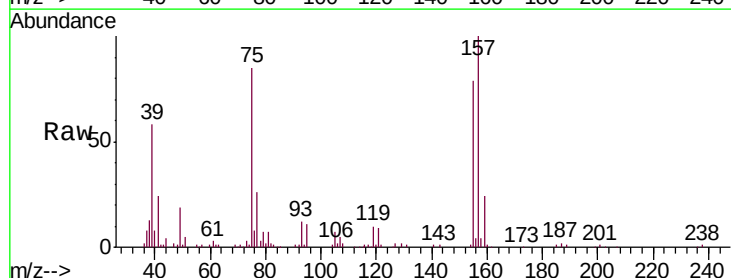
Instrument :
 MSVOA_V
 ClientSampleID :
 VSTD02588

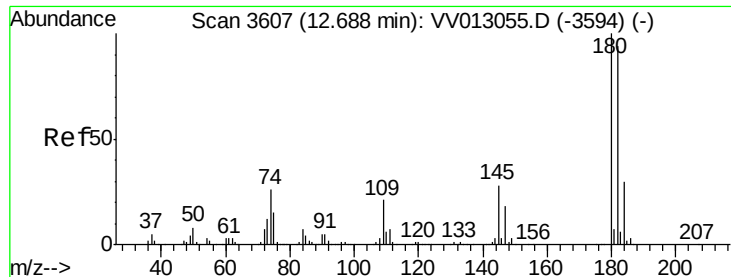
Tgt Ion: 146 Resp: 622477
 Ion Ratio Lower Upper
 146 100
 111 39.7 31.9 47.9
 148 63.5 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.924 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

Tgt Ion: 75 Resp: 46635
 Ion Ratio Lower Upper
 75 100
 157 118.2 91.7 137.5
 155 93.0 70.8 106.2

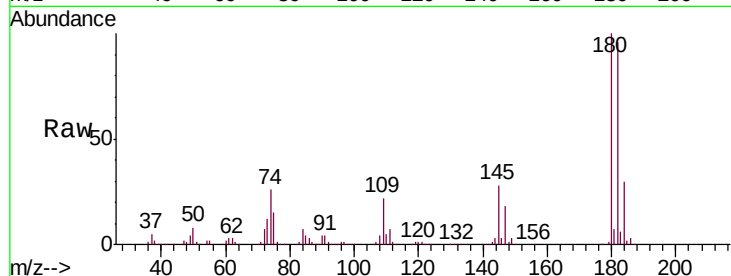




#67
 1,3,5-Trichlorobenzene
 Concen: 27.469 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02588

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.4	114.6
184	30.6	24.6	37.0
145	28.3	22.2	33.4



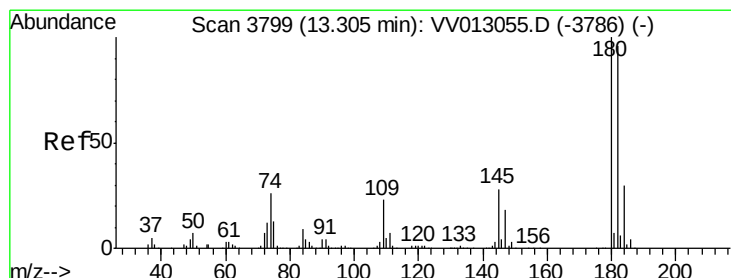
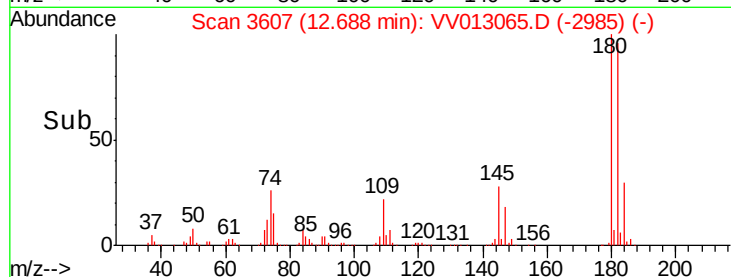
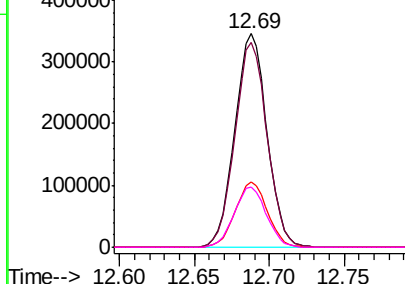
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

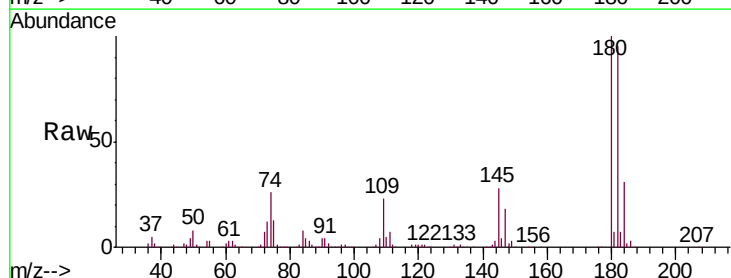
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 26.907 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013065.D
 Acq: 09 Oct 2019 09:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.8	115.2
145	27.9	22.6	34.0

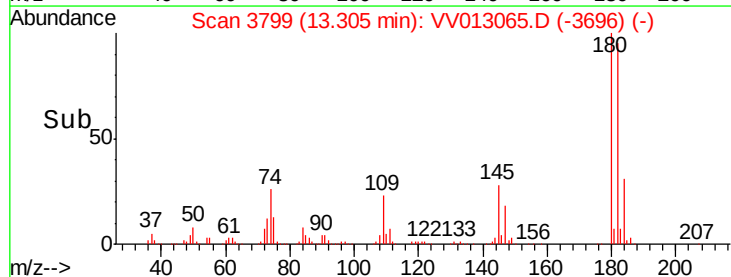
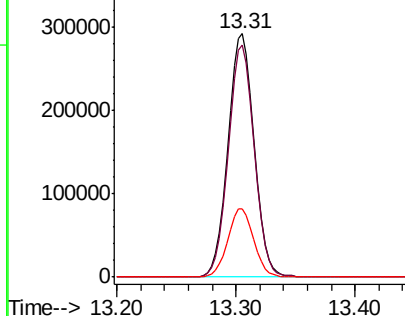


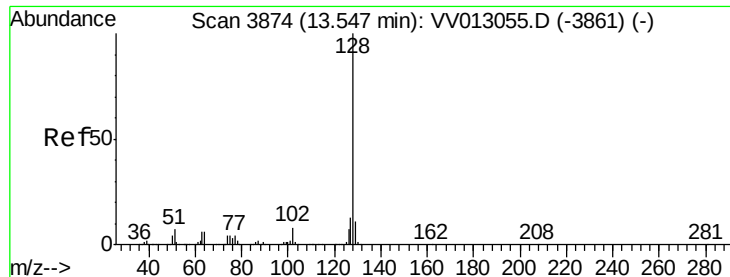
Abundance

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: 25.726 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02588

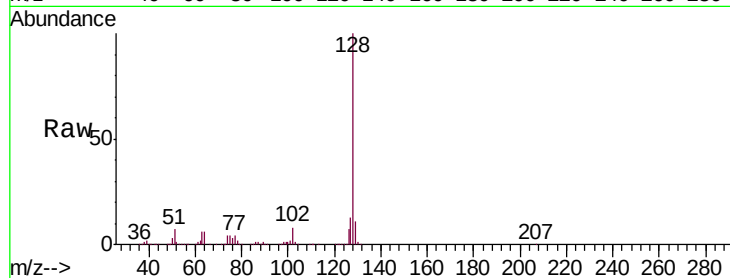
Tgt Ion:128 Resp: 851400

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

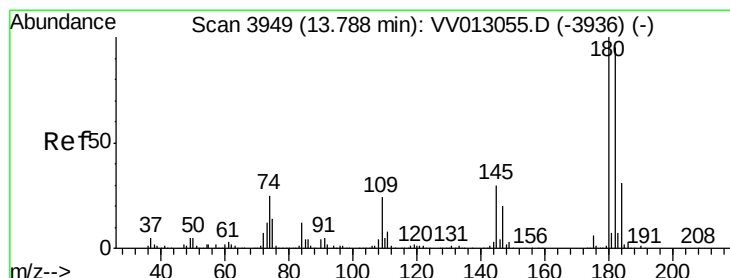
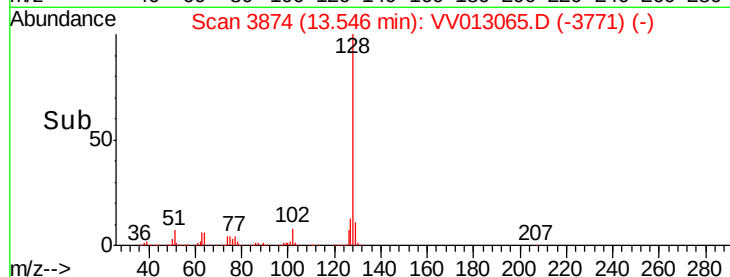
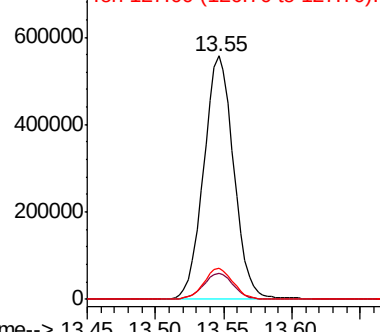
127 12.5 10.2 15.2



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: 26.629 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013065.D

Acq: 09 Oct 2019 09:27

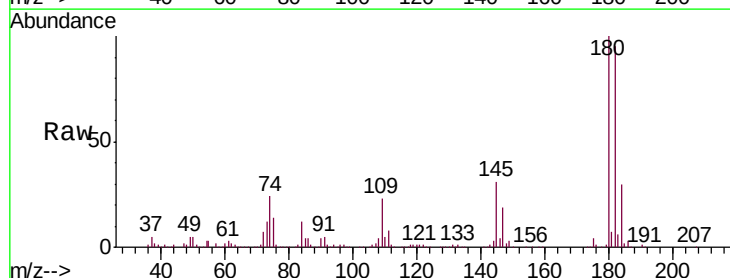
Tgt Ion:180 Resp: 421273

Ion Ratio Lower Upper

180 100

182 95.0 77.4 116.2

145 30.4 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

