

Data File : VV010416.D
Acq On : 22 Apr 2019 15:38
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Quant Time: Apr 23 06:55:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM042219S.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 22 15:14:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	498545	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	494462	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	264522	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	137475	20.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.04%
7) Chloroethane-d5	1.57	69	113109	21.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.68%
10) 1,1-Dichloroethene-d2	2.13	63	269958	21.05	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.20%
20) 2-Butanone-d5	3.93	46	83956	52.27	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.54%
24) Chloroform-d	4.40	84	287072	23.56	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.24%
26) 1,2-Dichloroethane-d4	5.08	65	179017	23.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.80%
29) Benzene-d6	5.10	84	539282	23.62	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.48%
33) 1,2-Dichloropropane-d6	6.12	67	163433	24.27	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.08%
37) Toluene-d8	7.36	98	542279	23.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.24%
38) trans-1,3-Dichloropropene-	7.66	79	85240	25.70	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.80%
39) 2-Hexanone-d5	8.13	63	70728	52.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.74%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	164203	25.03	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.12%
61) 1,2-Dichlorobenzene-d4	11.67	152	244105	24.28	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.12%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	175580	23.091 ug/L	98
3) Chloromethane	1.25	50	156204	24.759 ug/L	96
5) Vinyl chloride	1.33	62	165402	22.188 ug/L	99
6) Bromomethane	1.52	94	102312	26.329 ug/L	99
8) Chloroethane	1.59	64	97174	23.186 ug/L	99
9) Trichlorofluoromethane	1.77	101	282237	22.163 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	157208	22.048 ug/L	100
12) 1,1-Dichloroethene	2.14	96	140876	22.440 ug/L	89
13) Acetone	2.19	43	72186	41.935 ug/L	99
14) Carbon disulfide	2.32	76	310164	22.108 ug/L	98
15) Methyl Acetate	2.46	43	64909	25.333 ug/L	98
16) Methylene chloride	2.53	84	150747	20.619 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	372259	25.014 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	130266	23.461 ug/L	99
19) 1,1-Dichloroethane	3.23	63	240963	24.284 ug/L	99
21) 2-Butanone	4.02	43	92247	50.281 ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	152934	24.432 ug/L	99

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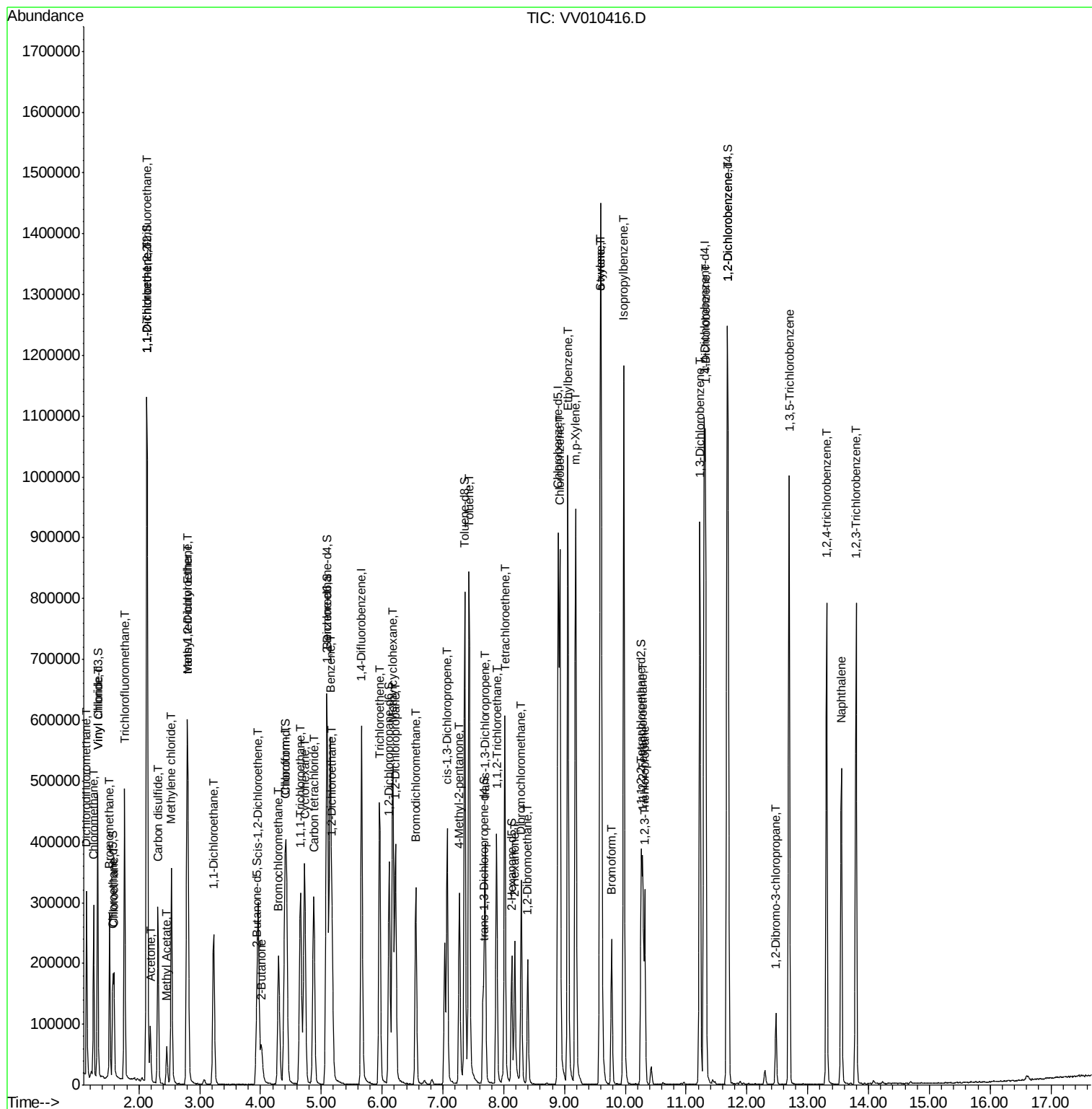
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	74376	24.628	ug/L	91
25) Chloroform	4.43	83	292683	24.549	ug/L	99
27) 1,2-Dichloroethane	5.18	62	211098	25.243	ug/L	99
30) Cyclohexane	4.73	56	195649	22.334	ug/L	97
31) 1,1,1-Trichloroethane	4.66	97	252171	23.862	ug/L	98
32) Carbon tetrachloride	4.87	117	232291	23.190	ug/L	99
34) Benzene	5.15	78	524674	24.006	ug/L	100
35) Trichloroethene	5.96	95	155821	23.509	ug/L	98
36) Methylcyclohexane	6.17	83	222876	22.508	ug/L	99
40) 1,2-Dichloropropane	6.22	63	141918	26.384	ug/L #	94
41) Bromodichloromethane	6.55	83	209226	25.219	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	232681	26.195	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	209671	52.488	ug/L	100
44) Toluene	7.43	91	615029	23.286	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	212529	26.205	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	124047	25.713	ug/L	98
47) Tetrachloroethene	8.02	164	134866	22.924	ug/L	98
49) 2-Hexanone	8.18	43	147067	51.857	ug/L	93
50) Dibromochloromethane	8.29	129	167030	25.683	ug/L	96
51) 1,2-Dibromoethane	8.40	107	126137	24.919	ug/L	96
52) Chlorobenzene	8.92	112	443895	23.972	ug/L	98
53) Ethylbenzene	9.05	91	736300	23.843	ug/L	99
54) m,p-Xylene	9.18	106	281830	23.280	ug/L	100
55) o-xylene	9.59	106	288764	23.946	ug/L	97
56) Styrene	9.60	104	487227	24.489	ug/L	99
57) Isopropylbenzene	9.97	105	777016	23.850	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	162797	26.049	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	121606	26.262	ug/L	98
62) Bromoform	9.77	173	100743	25.430	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	383385	24.783	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	385576	24.347	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	371983	24.744	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	28303	28.407	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	302644	24.482	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	236435	25.354	ug/L	99
69) Naphthalene	13.55	128	397389	26.514	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	223844	25.934	ug/L	99

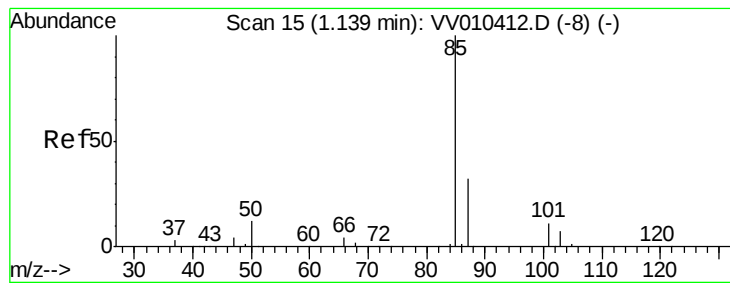
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.091 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

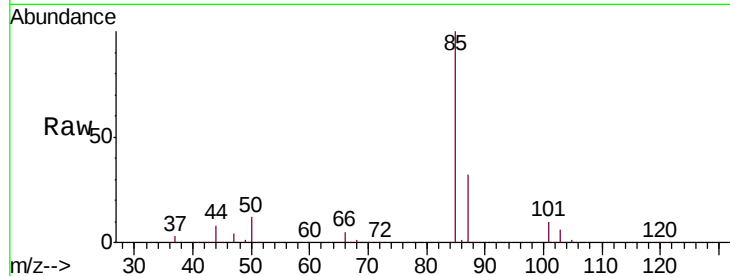
VSTD02577

Tgt Ion: 85 Resp: 175580

Ion Ratio Lower Upper

85 100

87 31.8 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV010416.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010416.D (-8) (-)

1.14

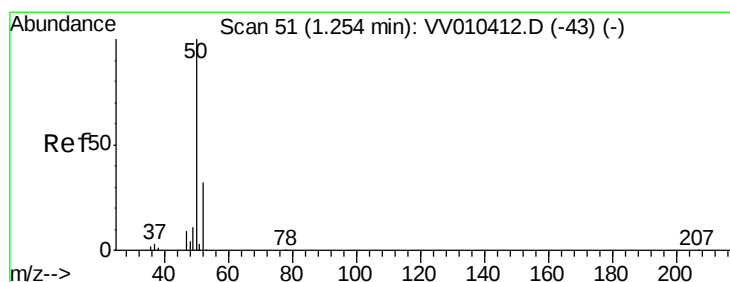
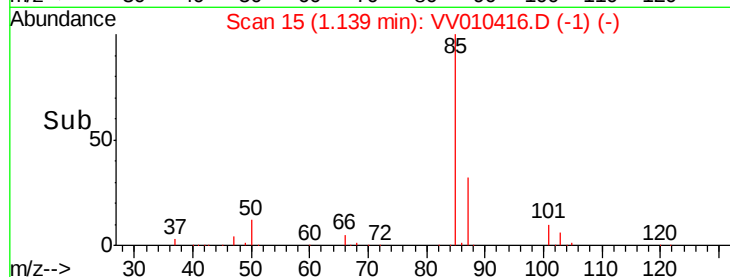
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 24.759 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV010416.D

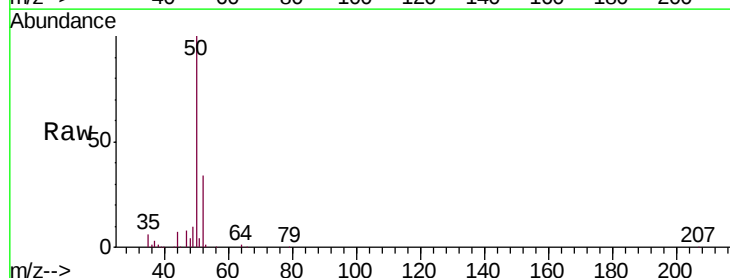
Acq: 22 Apr 2019 15:38

Tgt Ion: 50 Resp: 156204

Ion Ratio Lower Upper

50 100

52 34.1 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV010416.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV010416.D (-43) (-)

1.25

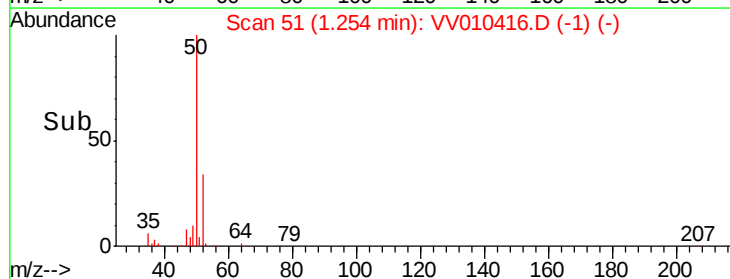
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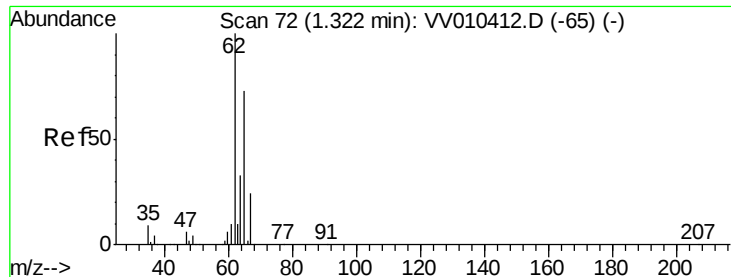
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 22.188 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

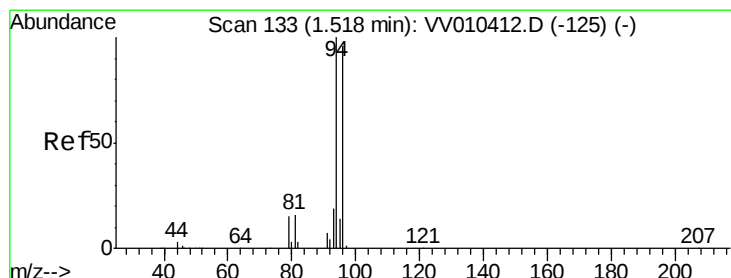
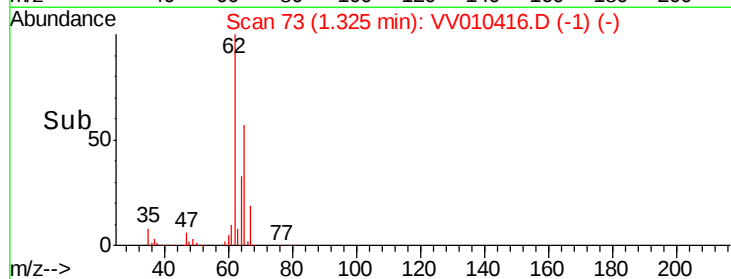
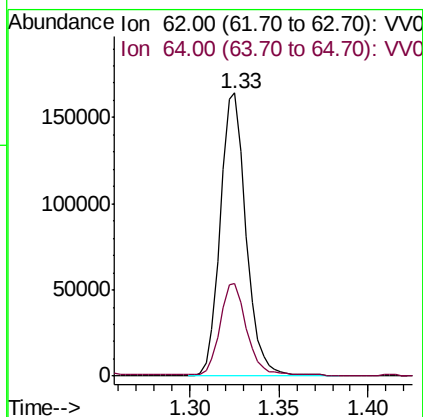
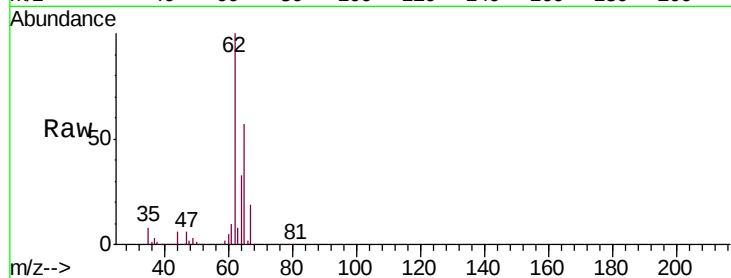
VSTD02577

Tgt Ion: 62 Resp: 165402

Ion Ratio Lower Upper

62 100

64 33.0 23.4 43.6



#6

Bromomethane

Concen: 26.329 ug/L

RT: 1.52 min Scan# 133

Delta R.T. -0.00 min

Lab File: VV010416.D

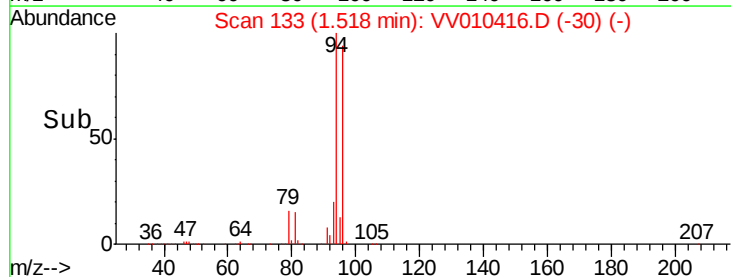
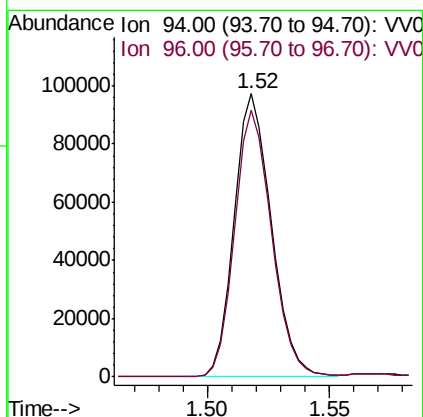
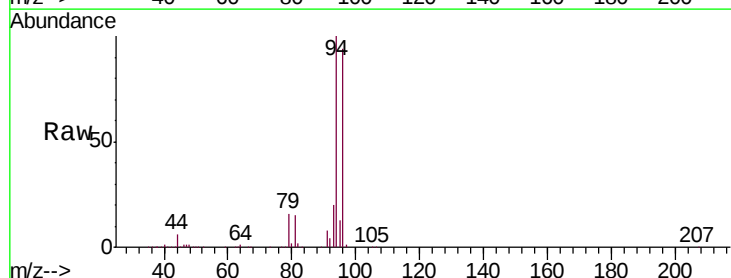
Acq: 22 Apr 2019 15:38

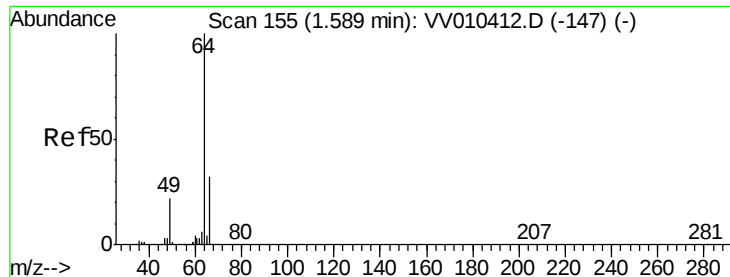
Tgt Ion: 94 Resp: 102312

Ion Ratio Lower Upper

94 100

96 94.0 9.5 180.3

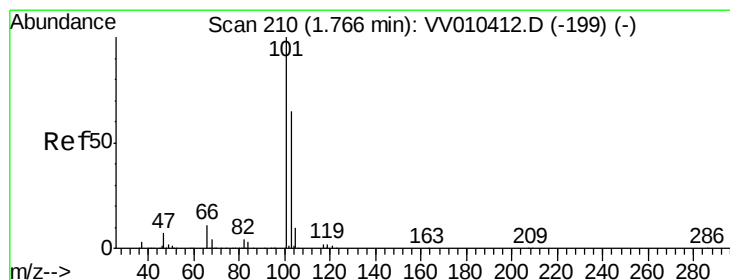
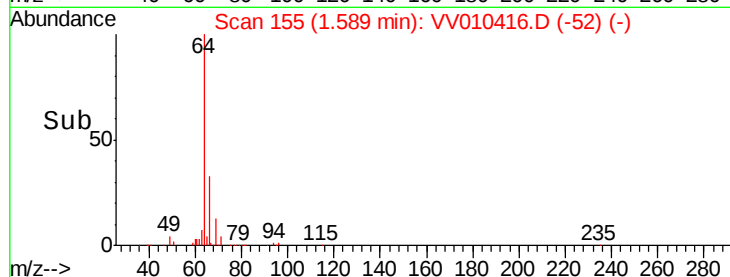
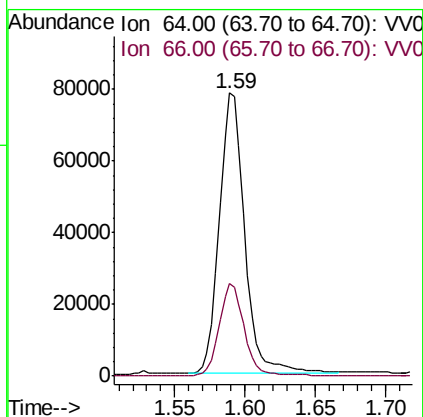
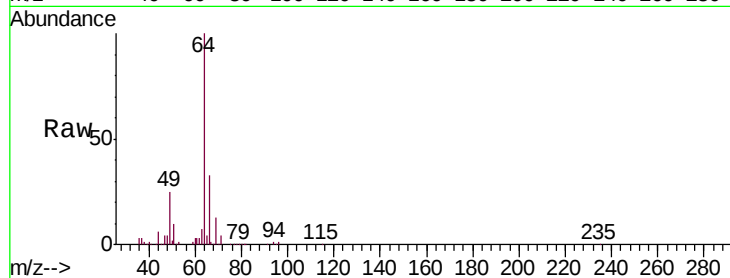




#8
Chloroethane
Concen: 23.186 ug/L
RT: 1.59 min Scan# 155
Delta R.T. -0.00 min
Lab File: VV010416.D
Acq: 22 Apr 2019 15:38

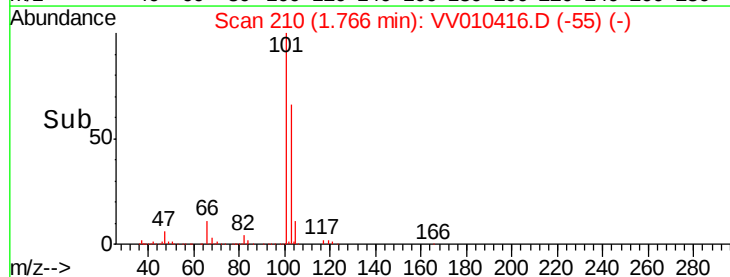
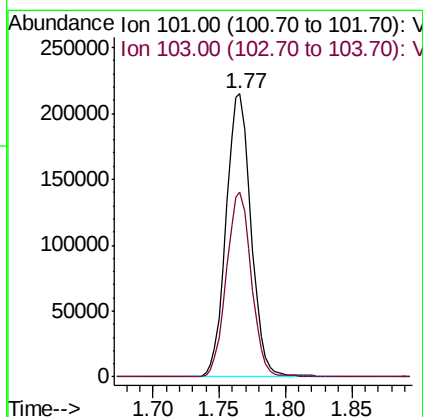
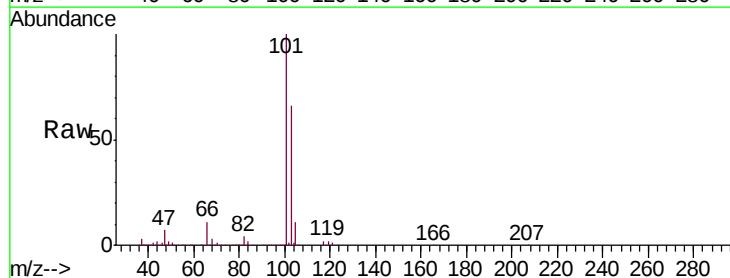
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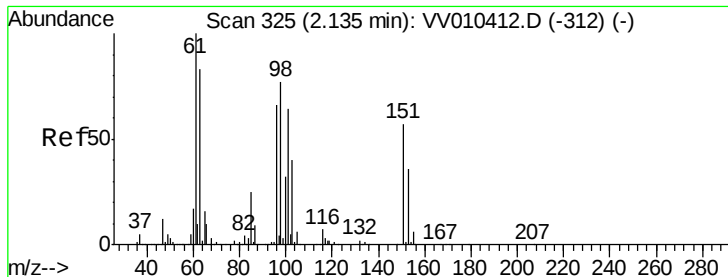
Tgt Ion: 64 Resp: 97174
Ion Ratio Lower Upper
64 100
66 32.6 22.5 41.7



#9
Trichlorofluoromethane
Concen: 22.163 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV010416.D
Acq: 22 Apr 2019 15:38

Tgt Ion: 101 Resp: 282237
Ion Ratio Lower Upper
101 100
103 65.4 45.4 84.2





#11

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

Concen: 22.048 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

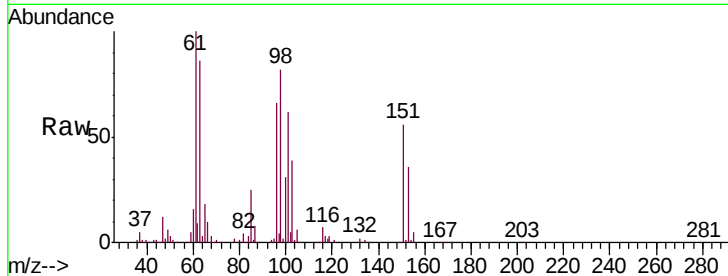
Tgt Ion:101 Resp: 157208

Ion Ratio Lower Upper

101 100

85 40.2 31.8 47.6

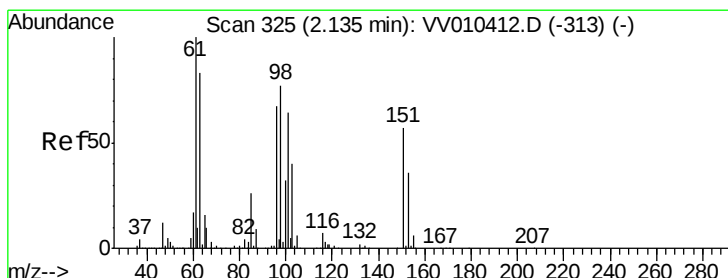
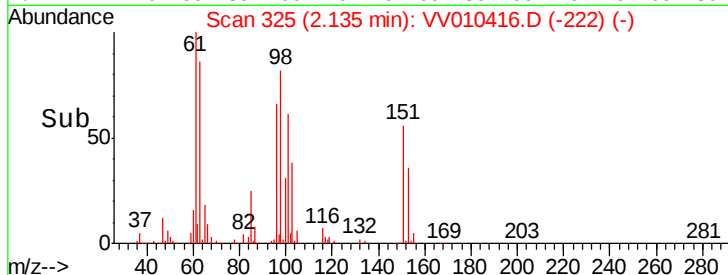
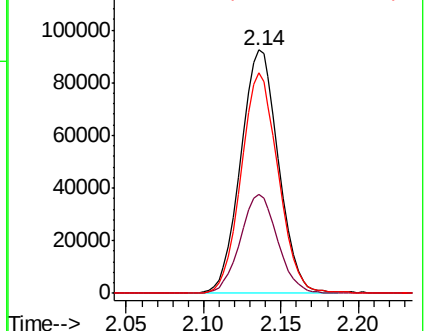
151 88.7 70.9 106.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 22.440 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

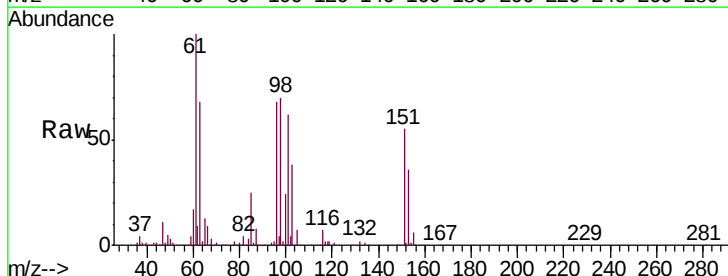
Tgt Ion: 96 Resp: 140876

Ion Ratio Lower Upper

96 100

61 148.0 105.3 195.5

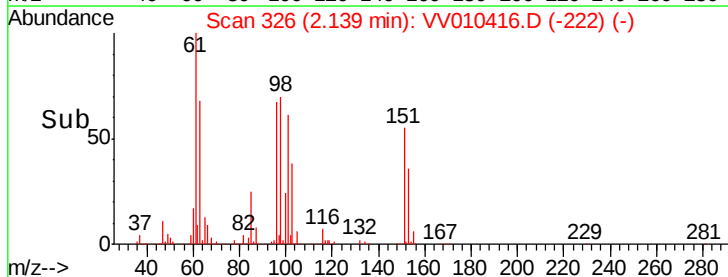
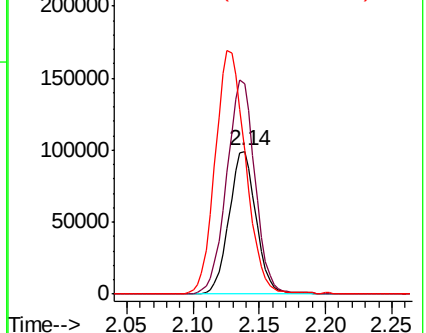
63 101.1 87.8 163.2

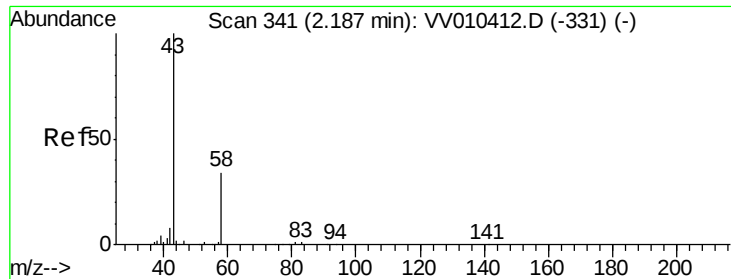


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 41.935 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

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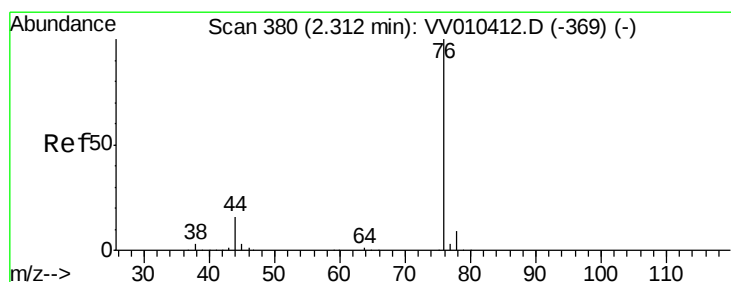
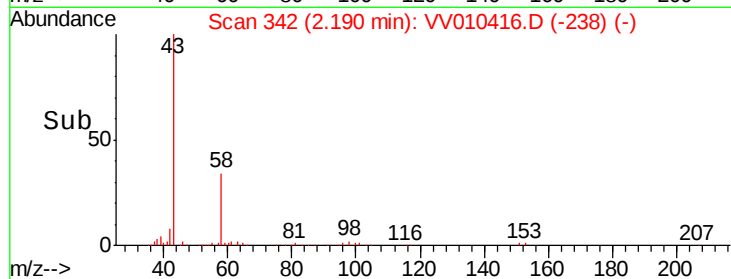
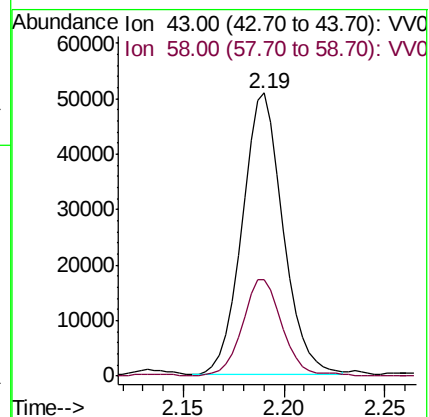
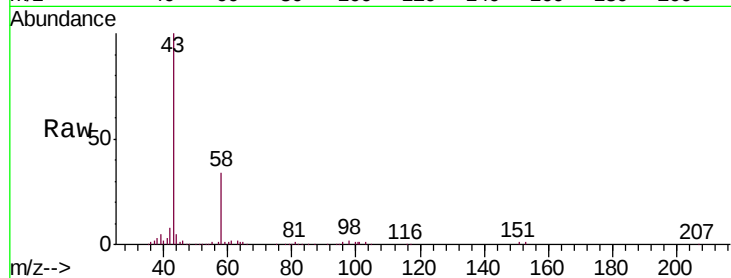
VSTD02577

Tgt Ion: 43 Resp: 72186

Ion Ratio Lower Upper

43 100

58 33.9 0.0 66.4



#14

Carbon disulfide

Concen: 22.108 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV010416.D

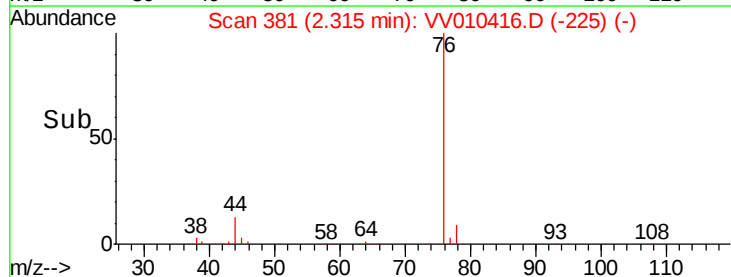
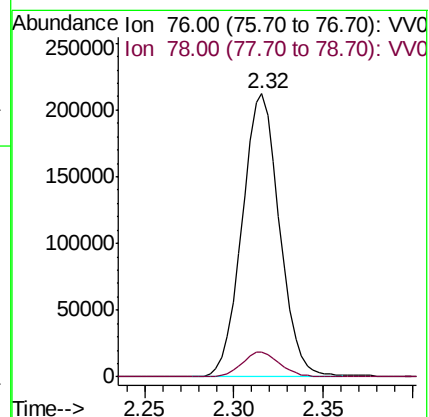
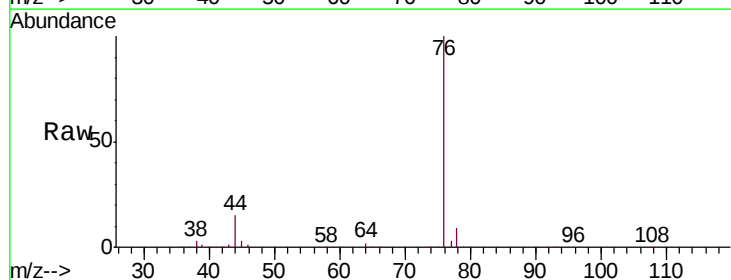
Acq: 22 Apr 2019 15:38

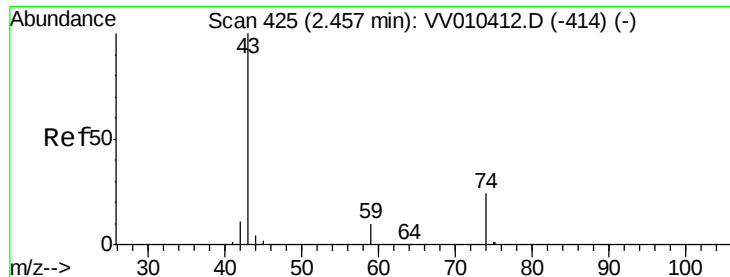
Tgt Ion: 76 Resp: 310164

Ion Ratio Lower Upper

76 100

78 8.7 7.5 11.3





#15

Methyl Acetate

Concen: 25.333 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

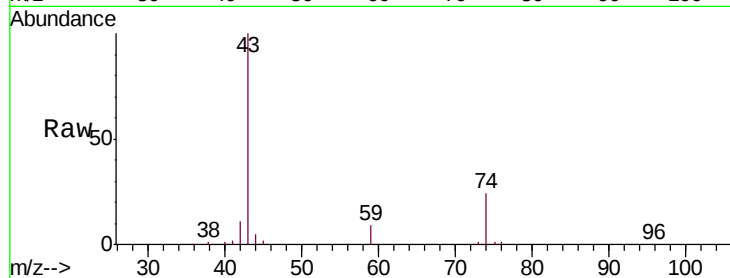
VSTD02577

Tgt Ion: 43 Resp: 64909

Ion Ratio Lower Upper

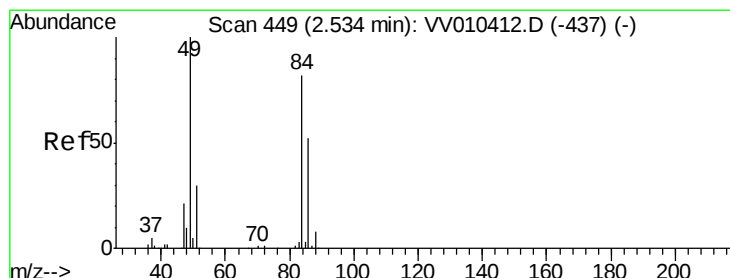
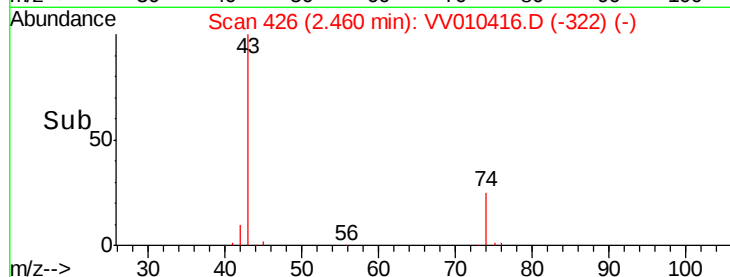
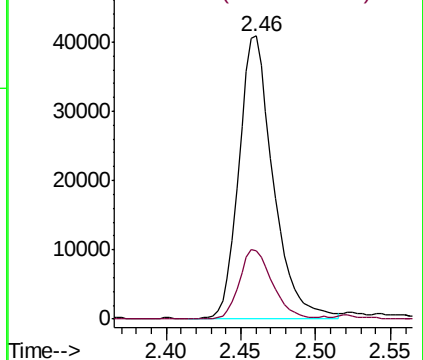
43 100

74 23.9 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VV010416.D (-322) (-)

Ion 74.00 (73.70 to 74.70): VV010416.D (-322) (-)



#16

Methylene chloride

Concen: 20.619 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

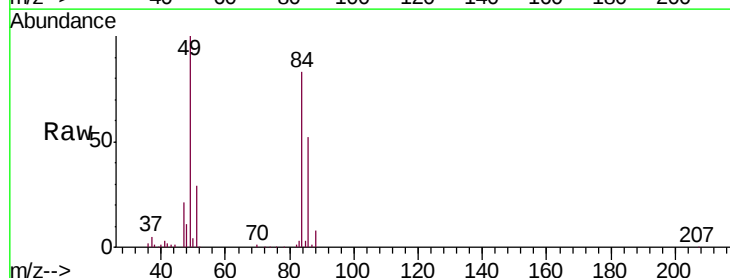
Tgt Ion: 84 Resp: 150747

Ion Ratio Lower Upper

84 100

49 120.2 85.0 158.0

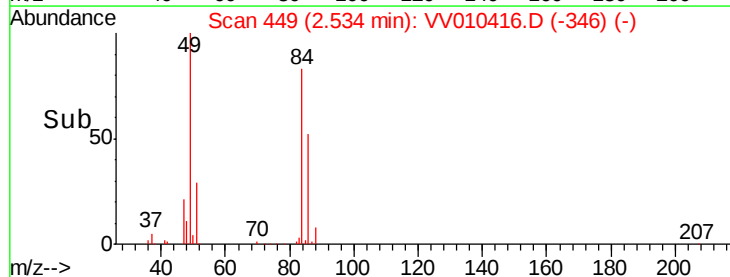
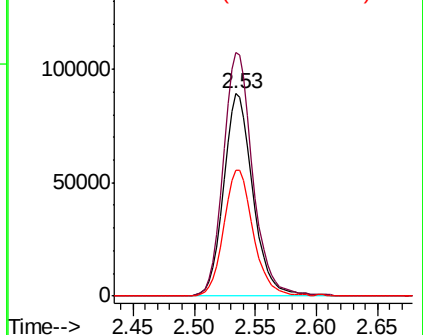
86 62.2 43.9 81.5

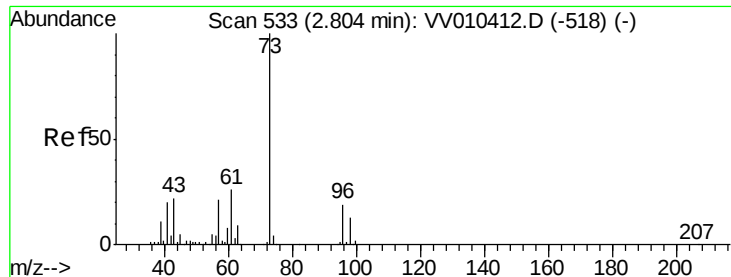


Abundance Ion 84.00 (83.70 to 84.70): VV010416.D (-346) (-)

Ion 49.00 (48.70 to 49.70): VV010416.D (-346) (-)

Ion 86.00 (85.70 to 86.70): VV010416.D (-346) (-)





#17

Methyl tert-butyl Ether

Concen: 25.014 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

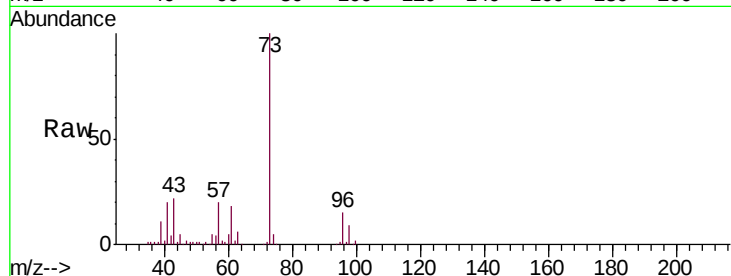
Tgt Ion: 73 Resp: 372259

Ion Ratio Lower Upper

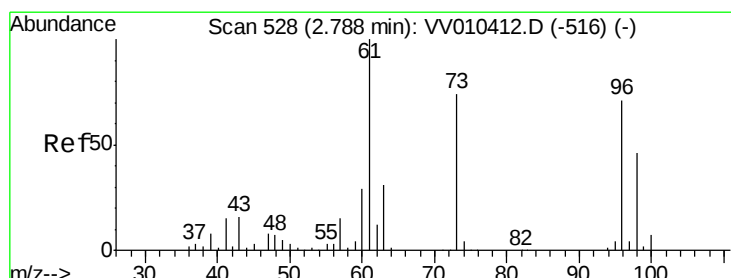
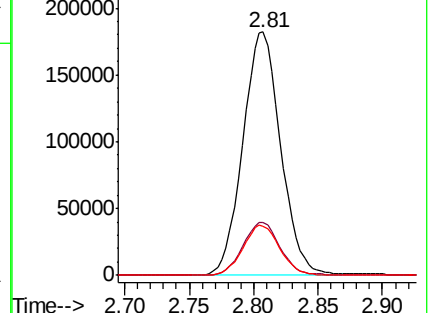
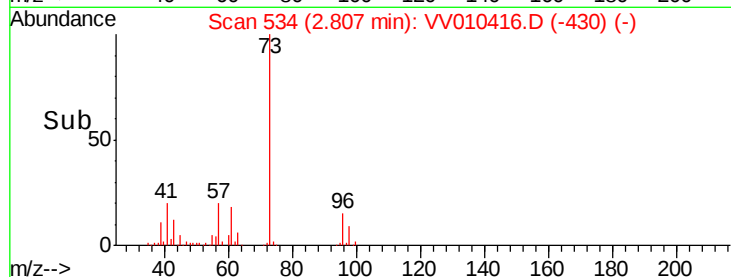
73 100

43 21.6 16.8 25.2

57 20.2 16.1 24.1



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0



#18

trans-1,2-Dichloroethene

Concen: 23.461 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

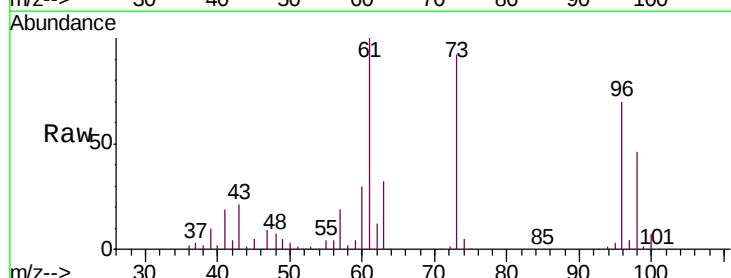
Tgt Ion: 96 Resp: 130266

Ion Ratio Lower Upper

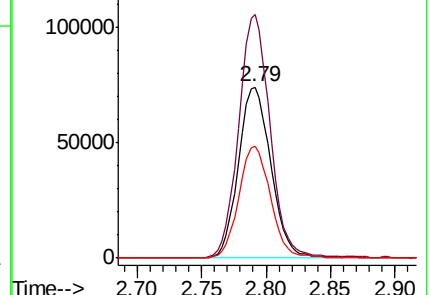
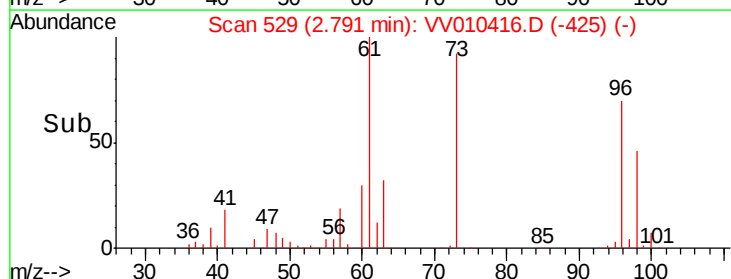
96 100

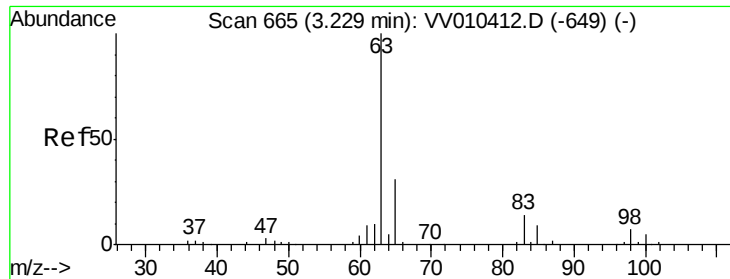
61 142.4 98.6 183.0

98 65.3 45.7 84.9



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

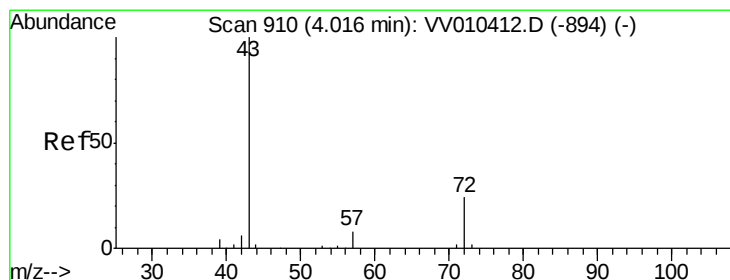
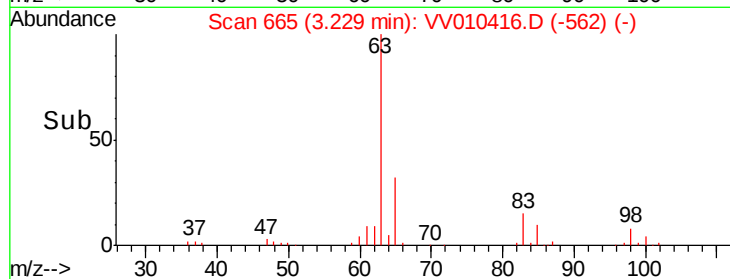
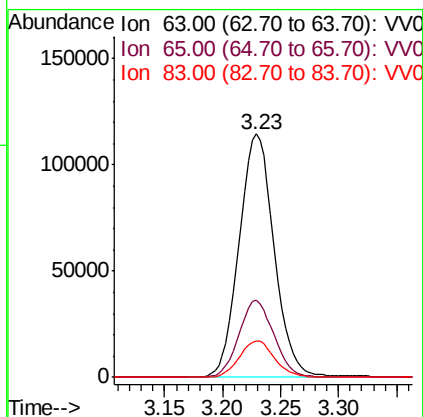
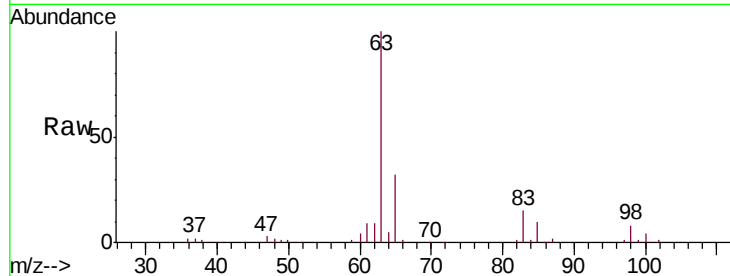




#19
 1,1-Dichloroethane
 Concen: 24.284 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

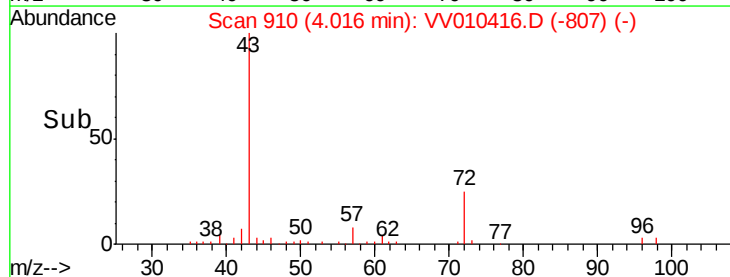
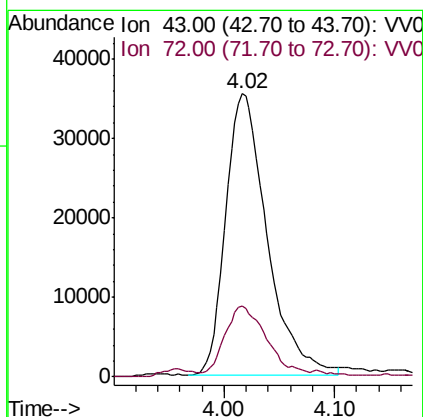
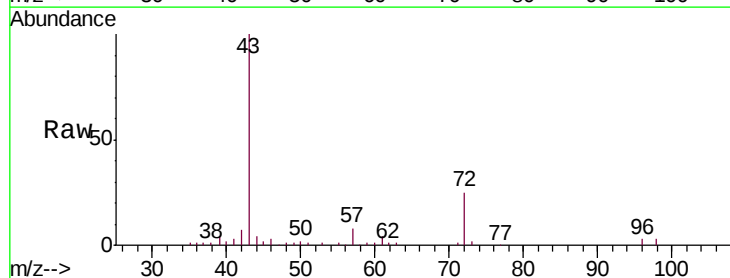
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

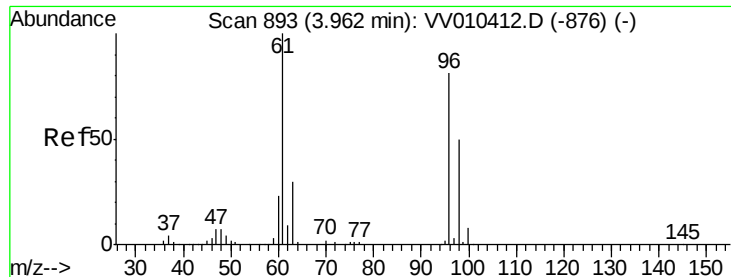
Tgt Ion: 63 Resp: 240963
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.0 41.0
 83 15.1 9.8 18.2



#21
 2-Butanone
 Concen: 50.281 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion: 43 Resp: 92247
 Ion Ratio Lower Upper
 43 100
 72 21.9 12.2 36.4



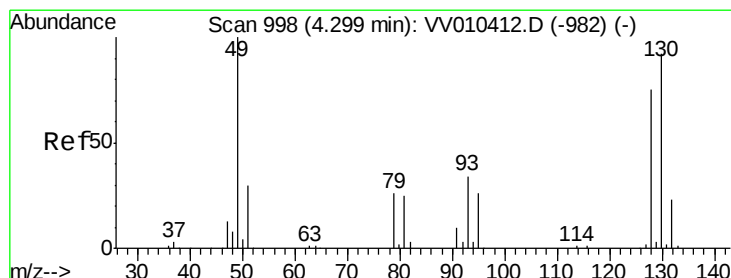
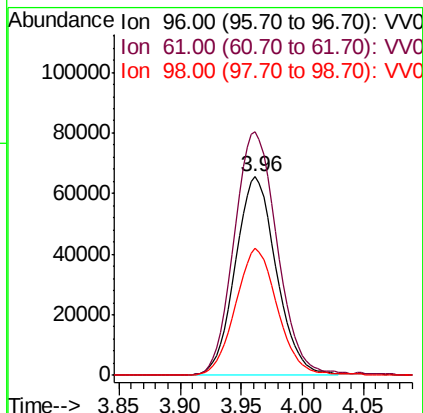
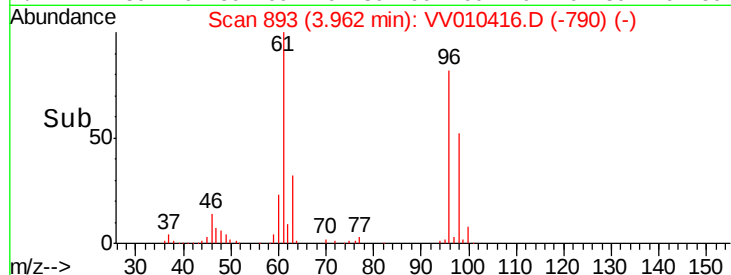
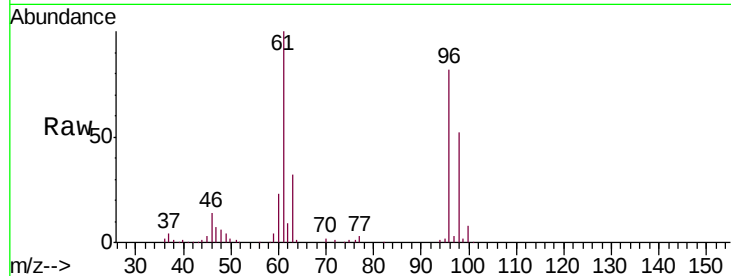


#22

cis-1,2-Dichloroethene
 Concen: 24.432 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

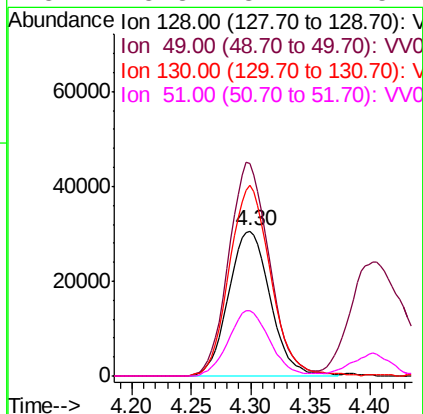
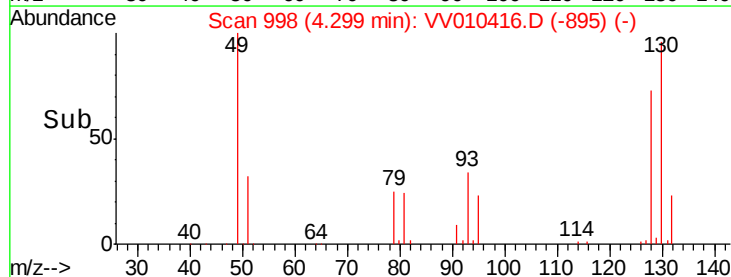
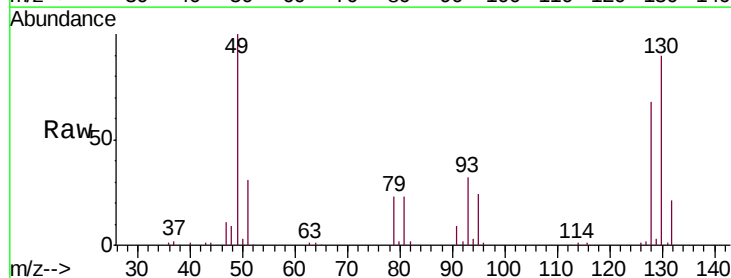
Tgt Ion: 96 Resp: 152934
 Ion Ratio Lower Upper
 96 100
 61 122.6 86.7 161.1
 98 63.7 43.5 80.7

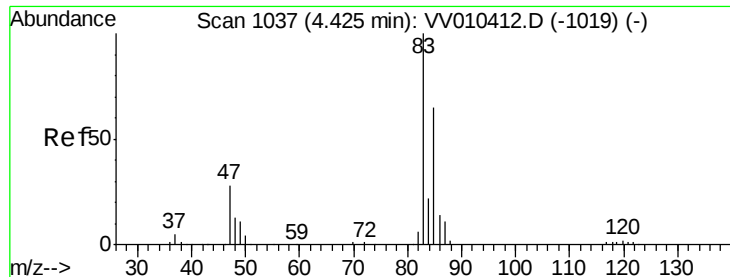


#23

Bromochloromethane
 Concen: 24.628 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion: 128 Resp: 74376
 Ion Ratio Lower Upper
 128 100
 49 146.8 93.7 174.1
 130 131.4 85.9 159.5
 51 45.3 32.2 48.4





#25

Chloroform

Concen: 24.549 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

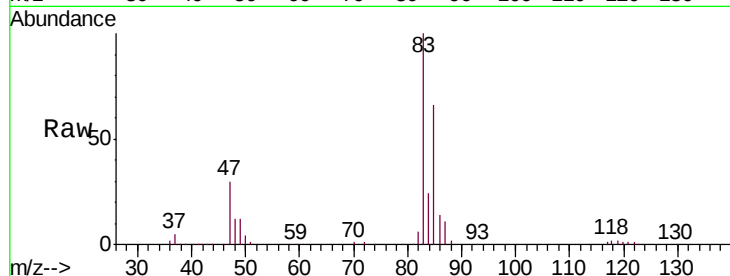
VSTD02577

Tgt Ion: 83 Resp: 292683

Ion Ratio Lower Upper

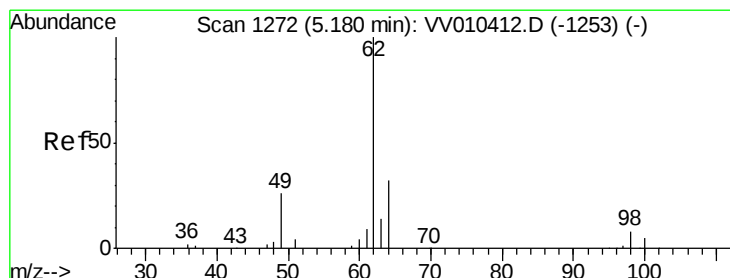
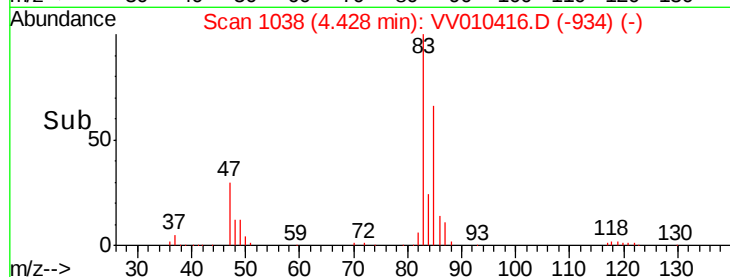
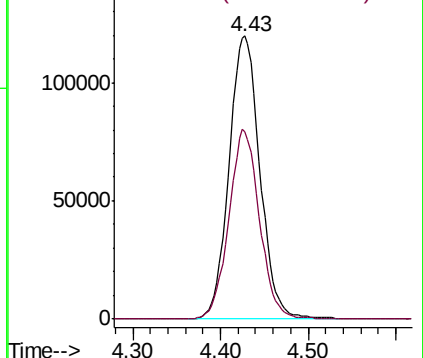
83 100

85 66.5 46.1 85.5



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 25.243 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VV010416.D

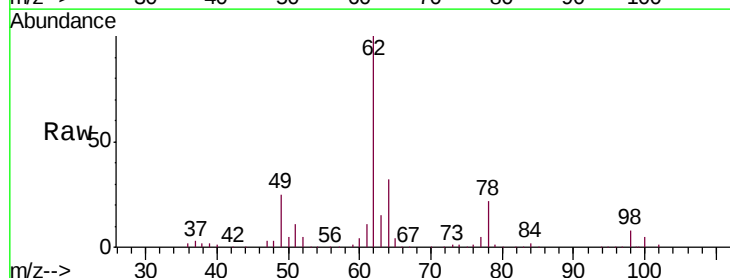
Acq: 22 Apr 2019 15:38

Tgt Ion: 62 Resp: 211098

Ion Ratio Lower Upper

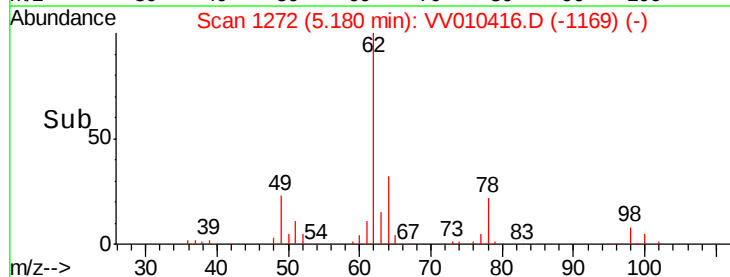
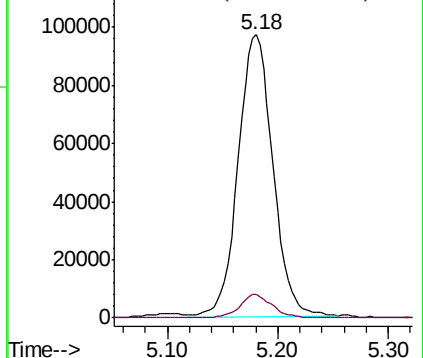
62 100

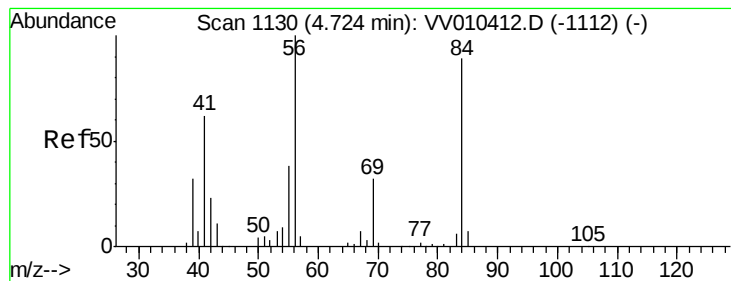
98 8.3 6.4 9.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#30

Cyclohexane

Concen: 22.334 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

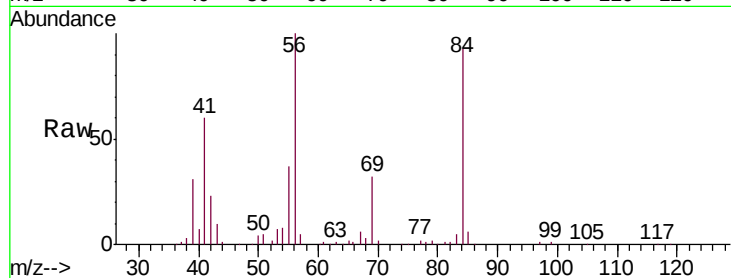
Tgt Ion: 56 Resp: 195649

Ion Ratio Lower Upper

56 100

69 31.6 25.9 38.9

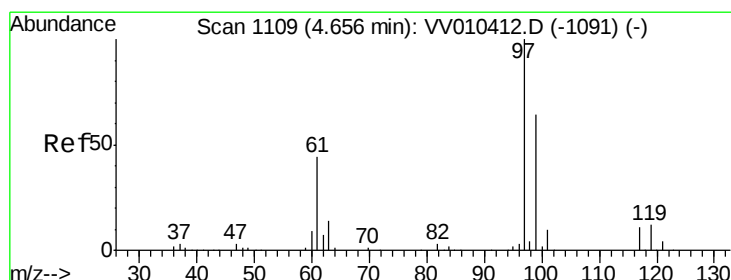
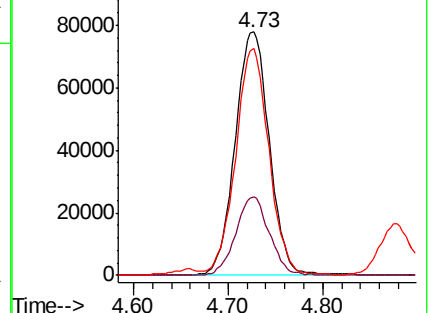
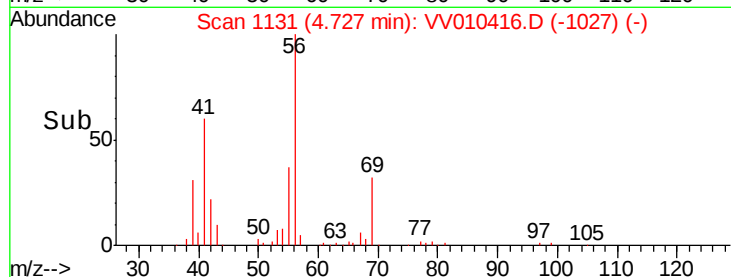
84 89.3 74.2 111.4



Abundance Ion 56.00 (55.70 to 56.70): VV010416.D (-1027) (-)

Ion 69.00 (68.70 to 69.70): VV010416.D (-1027) (-)

Ion 84.00 (83.70 to 84.70): VV010416.D (-1027) (-)



#31

1,1,1-Trichloroethane

Concen: 23.862 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

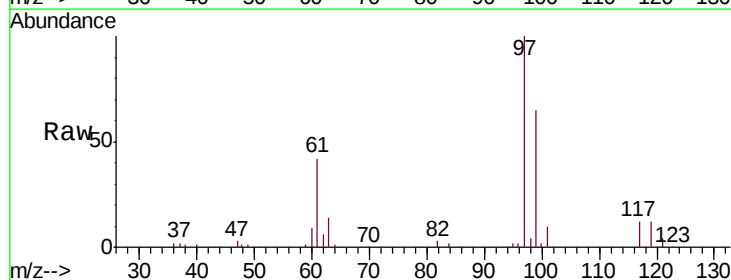
Tgt Ion: 97 Resp: 252171

Ion Ratio Lower Upper

97 100

99 64.9 50.7 76.1

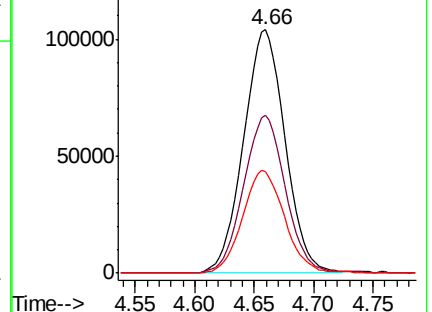
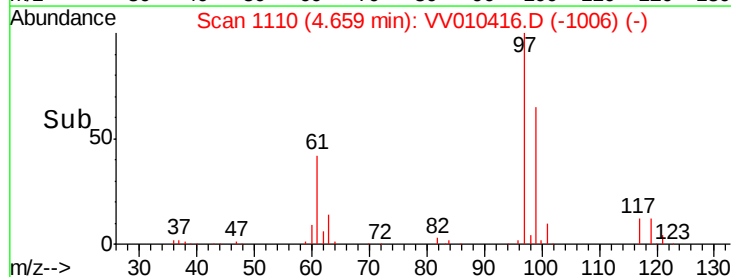
61 42.4 34.5 51.7

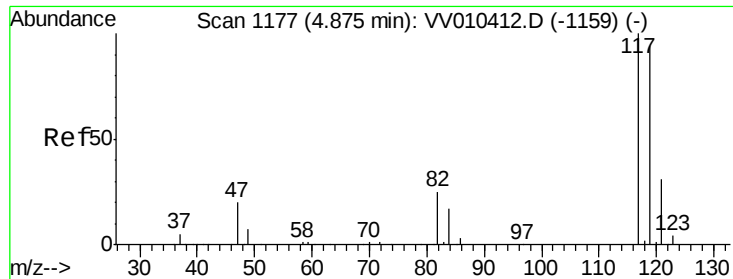


Abundance Ion 97.00 (96.70 to 97.70): VV010416.D (-1006) (-)

Ion 99.00 (98.70 to 99.70): VV010416.D (-1006) (-)

Ion 61.00 (60.70 to 61.70): VV010416.D (-1006) (-)





#32

Carbon tetrachloride

Concen: 23.190 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

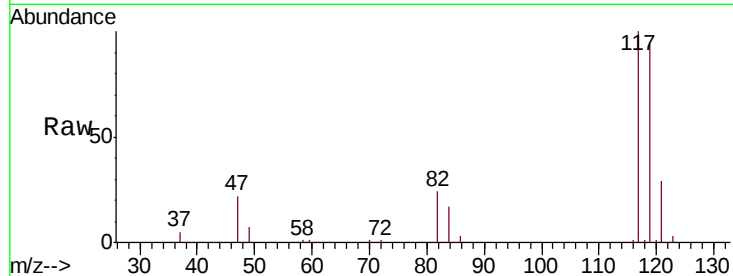
VSTD02577

Tgt Ion:117 Resp: 232291

Ion Ratio Lower Upper

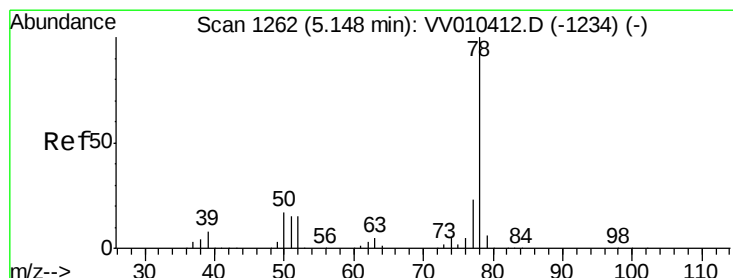
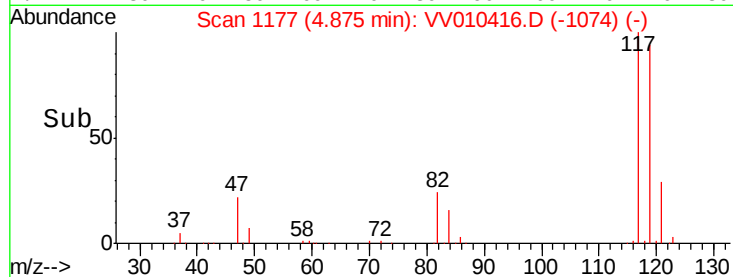
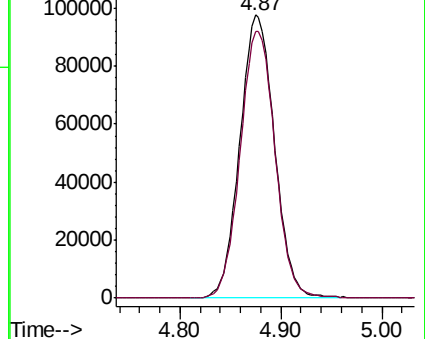
117 100

119 94.8 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.006 ug/L

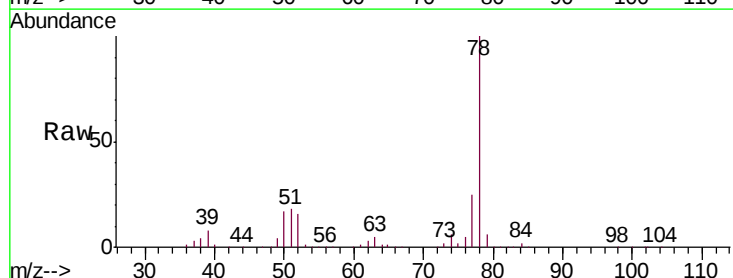
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

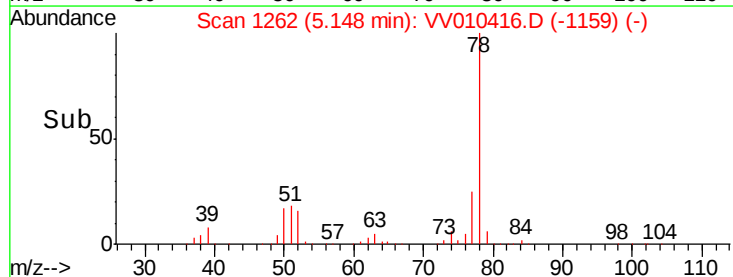
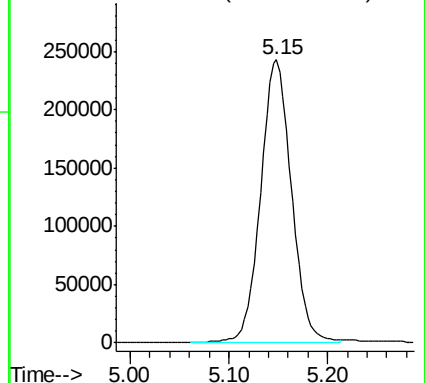
Lab File: VV010416.D

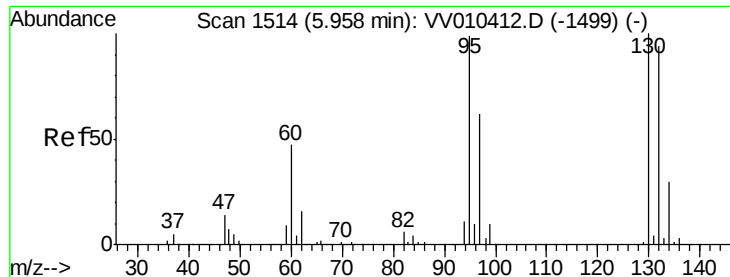
Acq: 22 Apr 2019 15:38

Tgt Ion: 78 Resp: 524674



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 23.509 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

Tgt Ion: 95 Resp: 155821

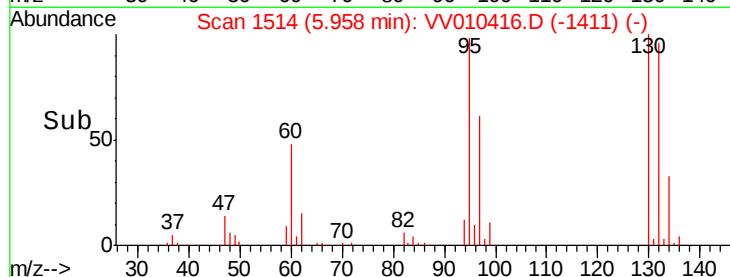
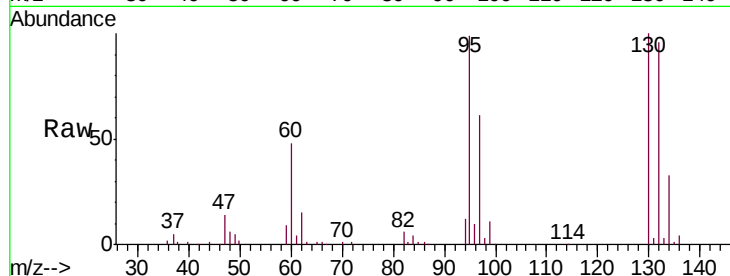
Ion Ratio Lower Upper

95 100

97 66.0 44.4 82.4

132 100.5 69.0 128.1

130 103.7 71.5 132.7



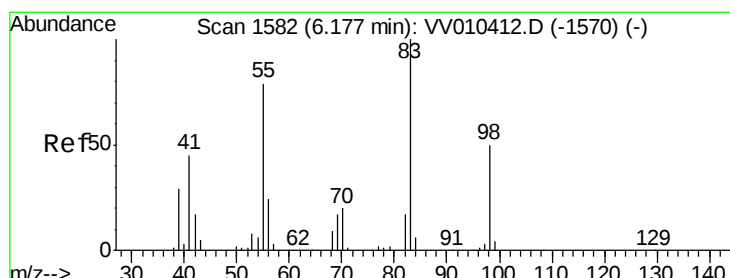
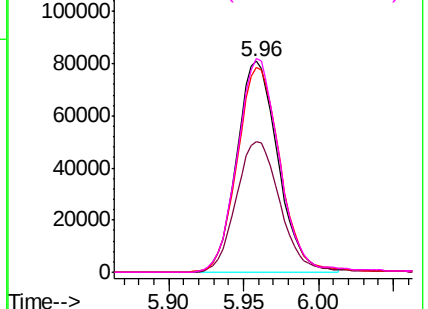
Abundance

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): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 22.508 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

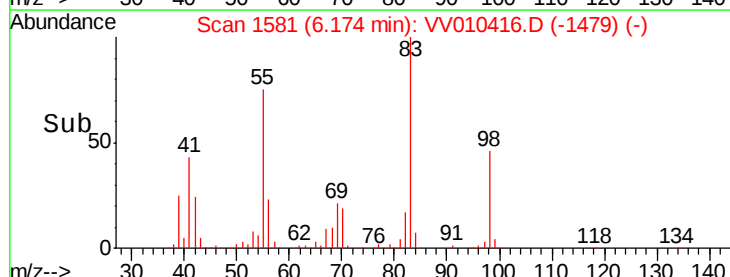
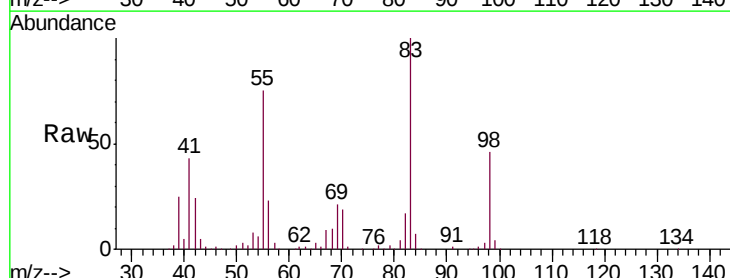
Tgt Ion: 83 Resp: 222876

Ion Ratio Lower Upper

83 100

55 74.7 59.6 89.4

98 48.9 38.0 57.0

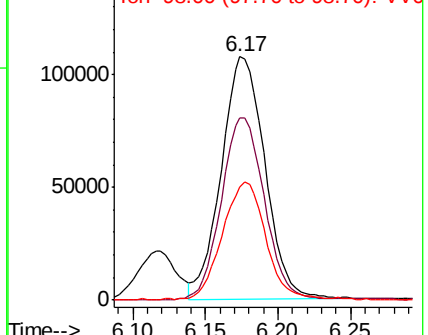


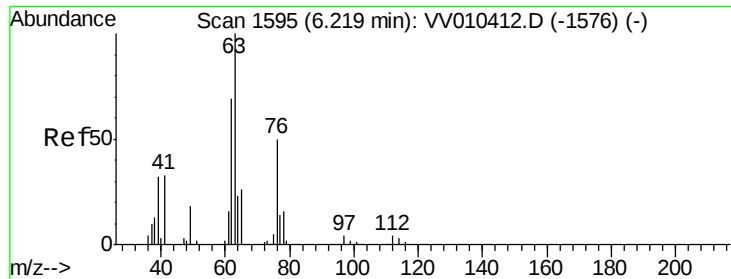
Abundance

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

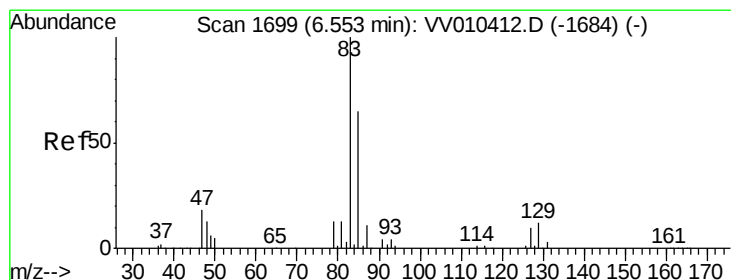
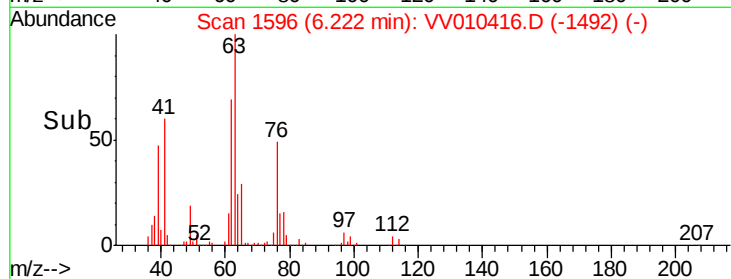
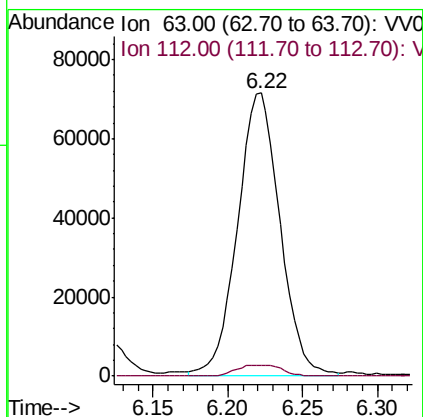
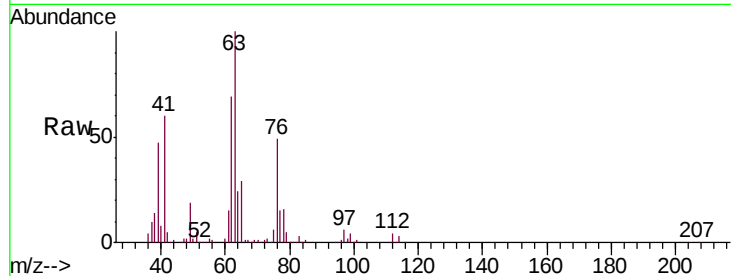




#40
 1,2-Dichloropropane
 Concen: 26.384 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

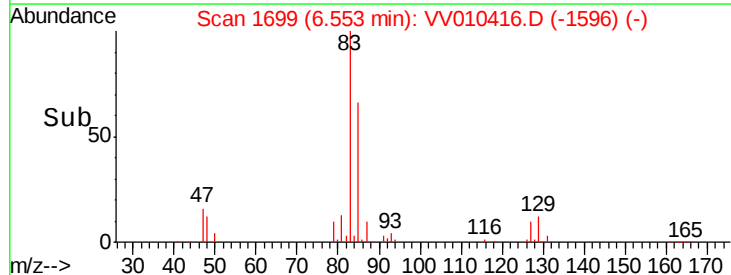
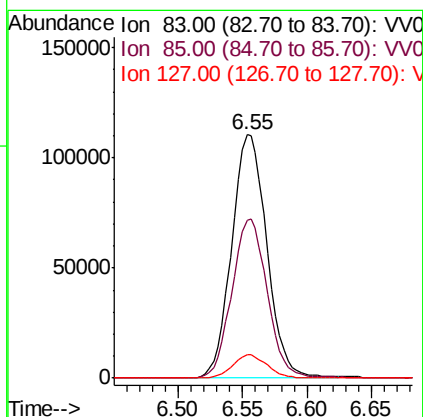
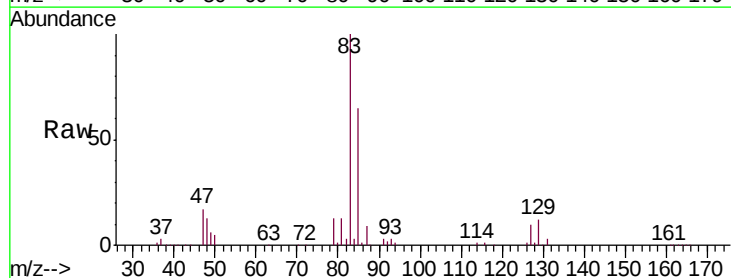
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

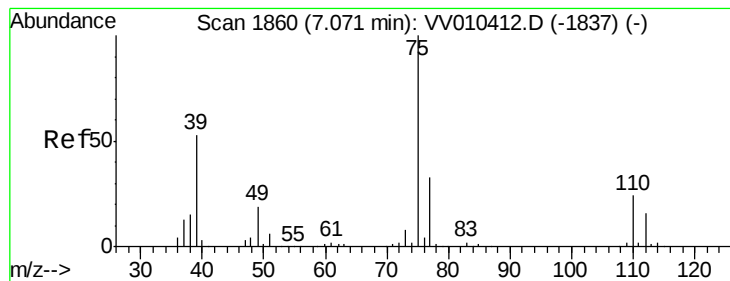
Tgt Ion: 63 Resp: 141918
 Ion Ratio Lower Upper
 63 100
 112 2.4 3.5 5.3#



#41
 Bromodichloromethane
 Concen: 25.219 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion: 83 Resp: 209226
 Ion Ratio Lower Upper
 83 100
 85 64.6 45.1 83.9
 127 9.5 8.2 12.4



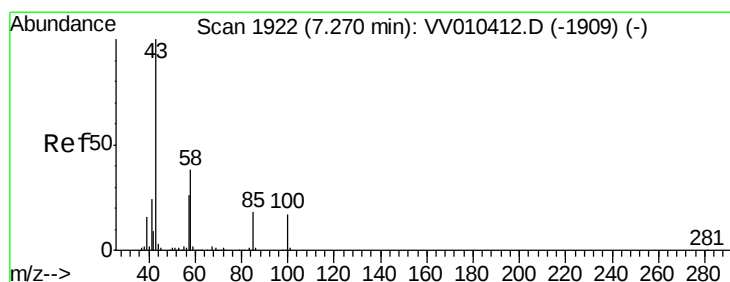
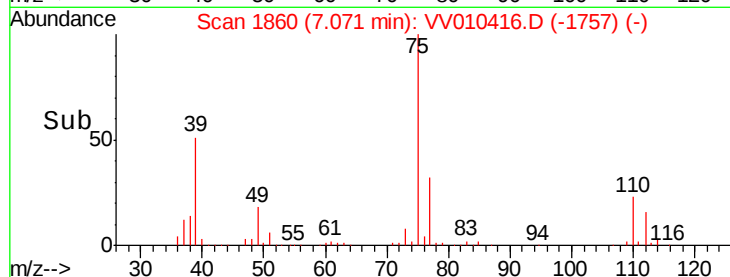
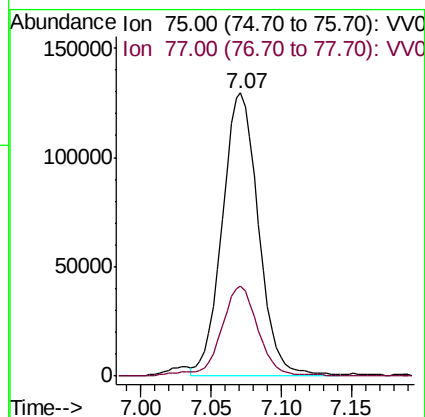
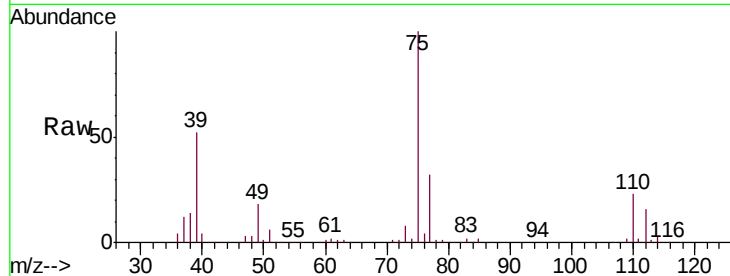


#42

cis-1,3-Dichloropropene
 Concen: 26.195 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02577

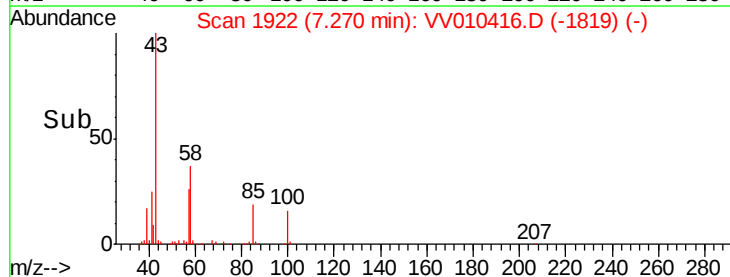
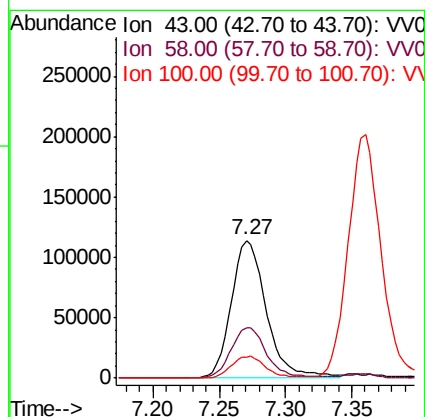
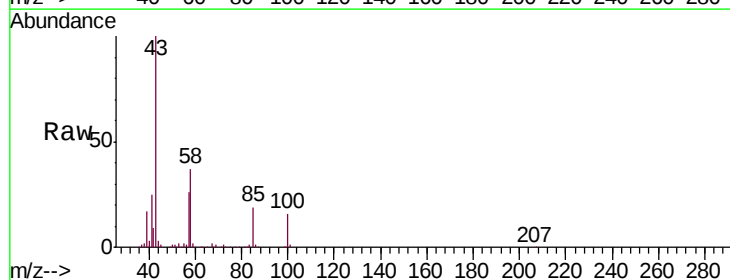
Tgt Ion: 75 Resp: 232681
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.9 42.5

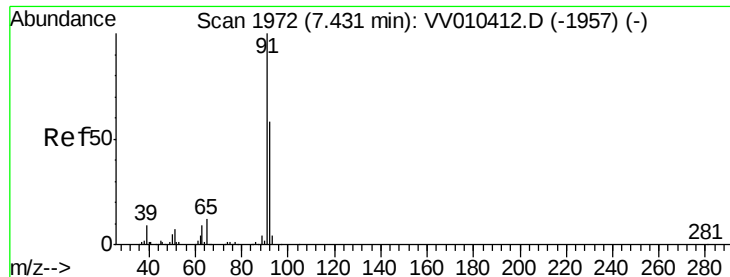


#43

4-Methyl-2-pentanone
 Concen: 52.488 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion: 43 Resp: 209671
 Ion Ratio Lower Upper
 43 100
 58 37.6 30.2 45.2
 100 15.7 12.9 19.3





#44

Toluene

Concen: 23.286 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

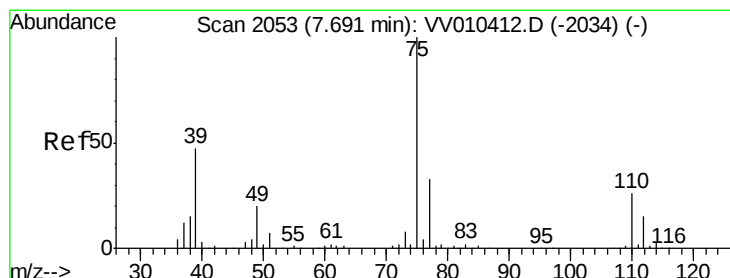
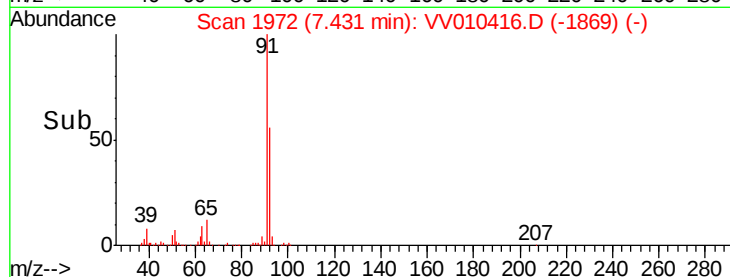
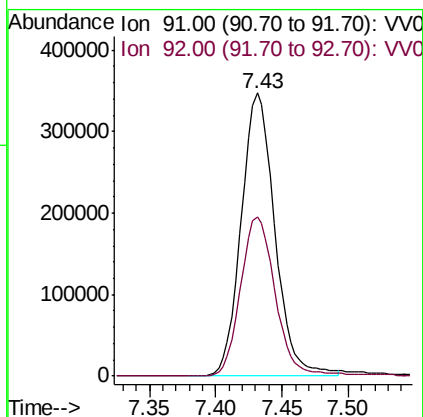
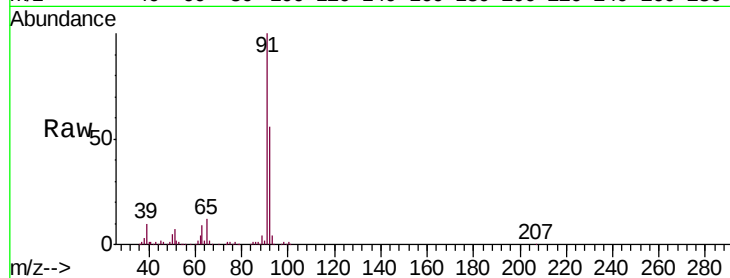
VSTD02577

Tgt Ion: 91 Resp: 615029

Ion Ratio Lower Upper

91 100

92 56.4 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 26.205 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV010416.D

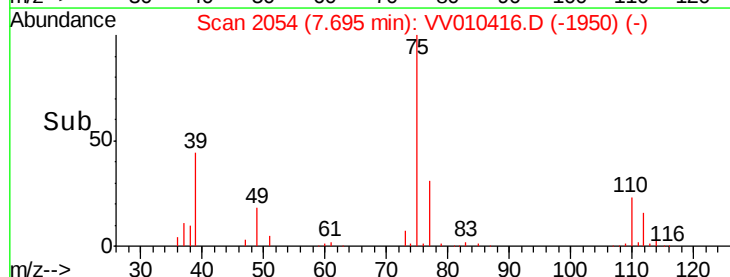
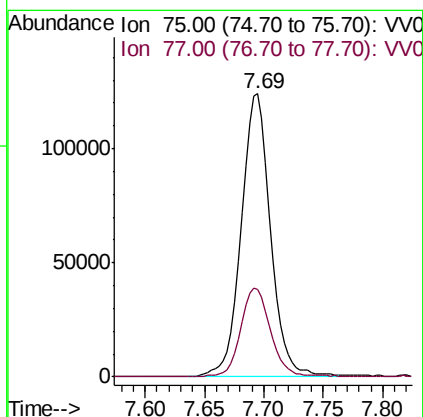
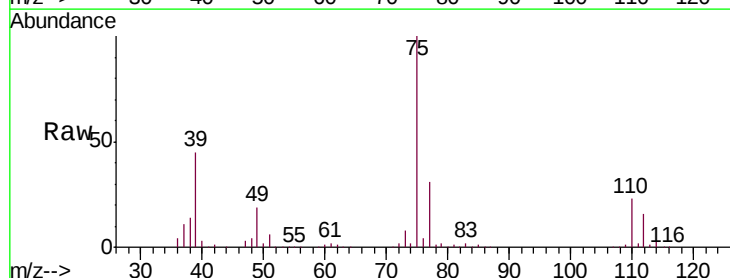
Acq: 22 Apr 2019 15:38

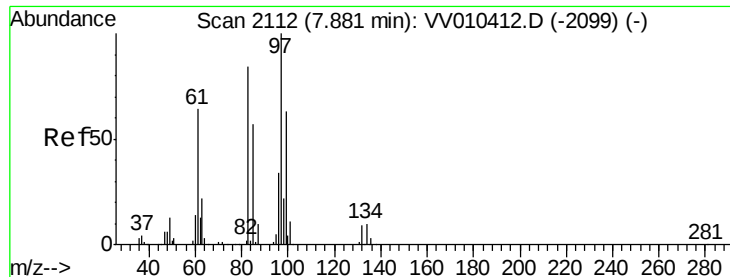
Tgt Ion: 75 Resp: 212529

Ion Ratio Lower Upper

75 100

77 31.1 23.1 42.9

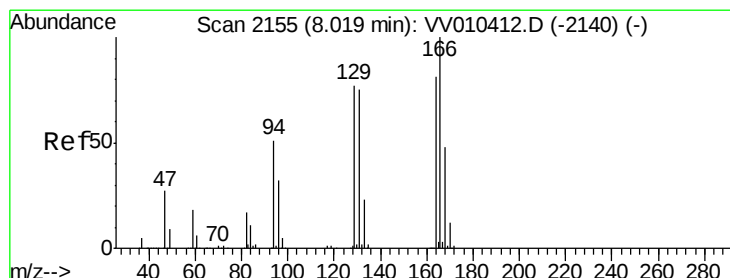
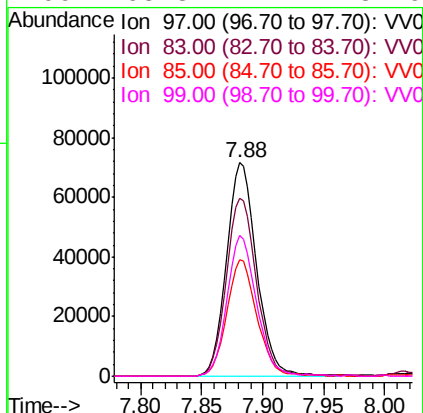
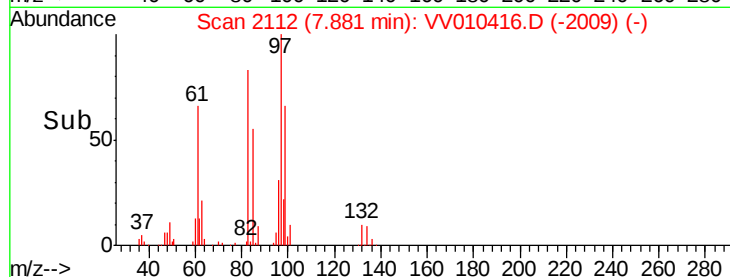
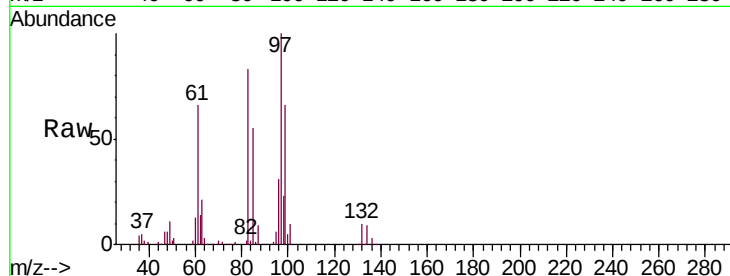




#46
 1,1,2-Trichloroethane
 Concen: 25.713 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

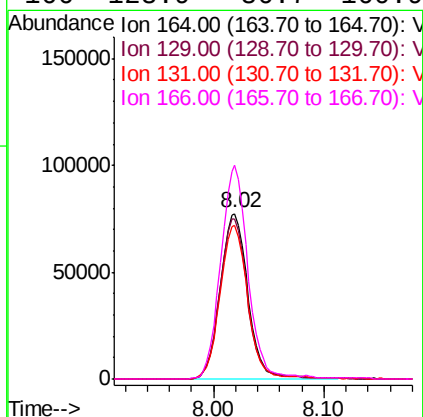
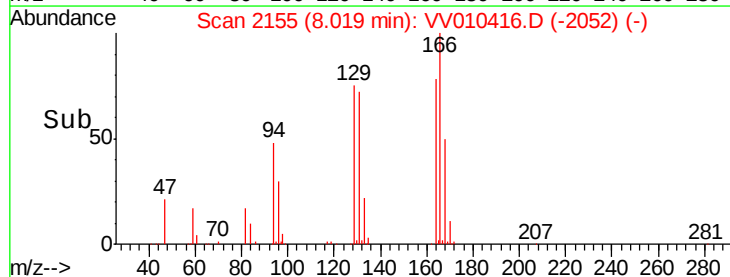
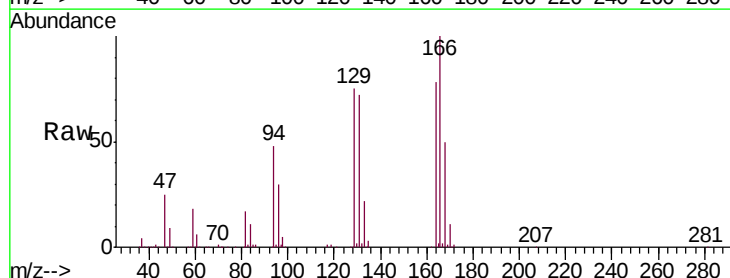
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02577

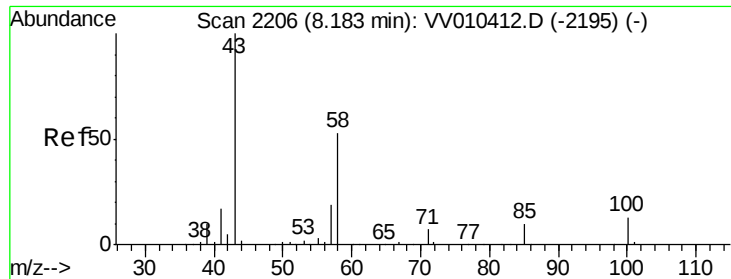
Tgt Ion:	97	Resp:	124047
Ion	Ratio	Lower	Upper
97	100		
83	83.4	58.9	109.3
85	54.7	40.2	74.6
99	65.8	44.1	81.9



#47
 Tetrachloroethene
 Concen: 22.924 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion:	164	Resp:	134866
Ion	Ratio	Lower	Upper
164	100		
129	96.3	67.1	124.5
131	92.4	64.6	120.0
166	128.9	86.7	160.9

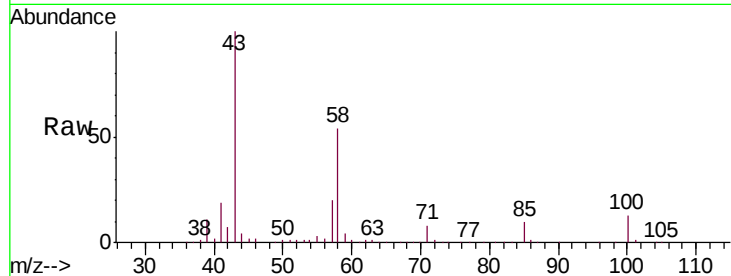




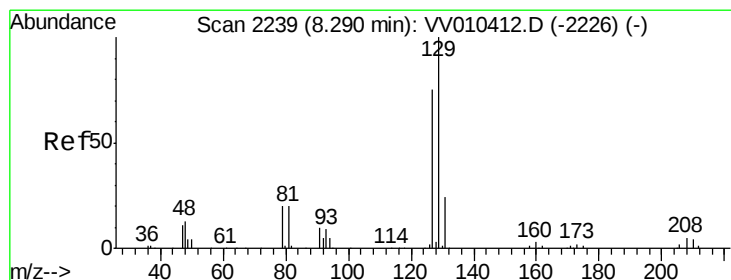
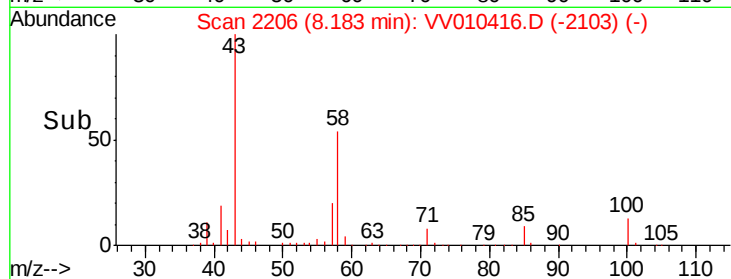
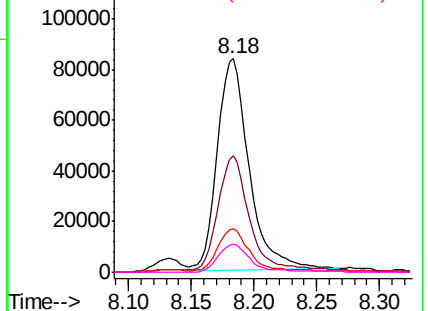
#49
2-Hexanone
Concen: 51.857 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV010416.D
Acq: 22 Apr 2019 15:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tgt Ion: 43 Resp: 147067
Ion Ratio Lower Upper
43 100
58 53.7 37.6 56.4
57 19.1 15.8 23.8
100 12.6 9.2 13.8

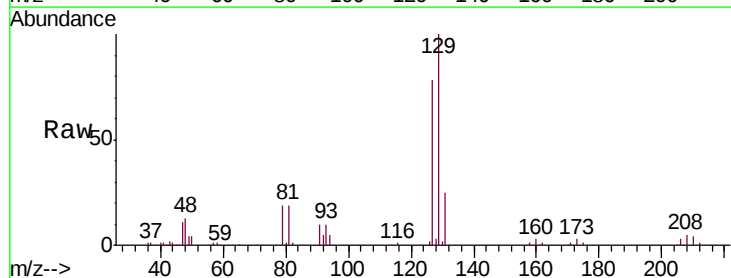


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

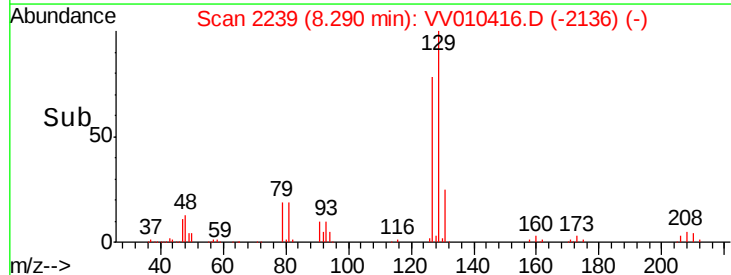
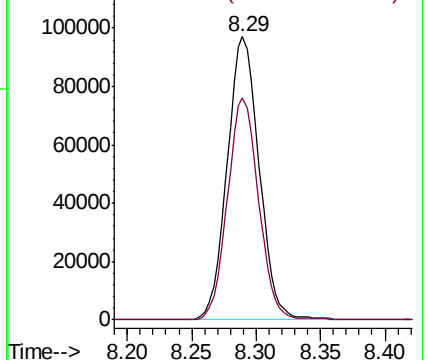


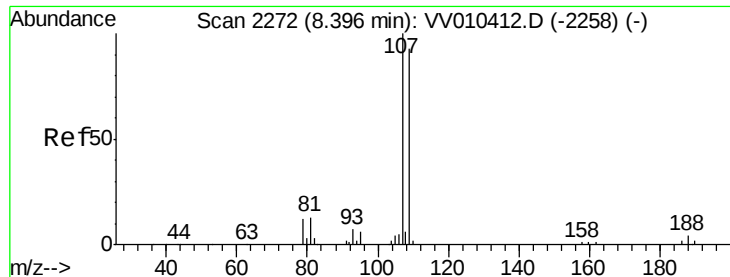
#50
Dibromochloromethane
Concen: 25.683 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010416.D
Acq: 22 Apr 2019 15:38

Tgt Ion: 129 Resp: 167030
Ion Ratio Lower Upper
129 100
127 78.4 52.4 97.4



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





#51

1,2-Dibromoethane

Concen: 24.919 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

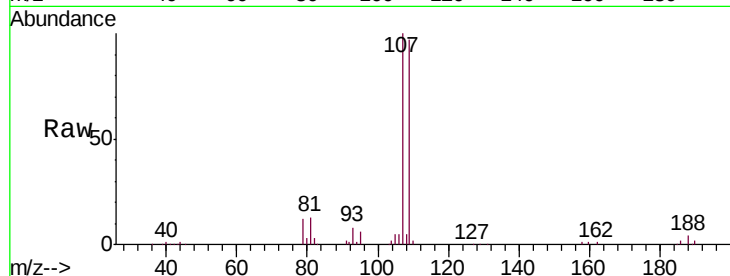
Instrument :

MSVOA_V

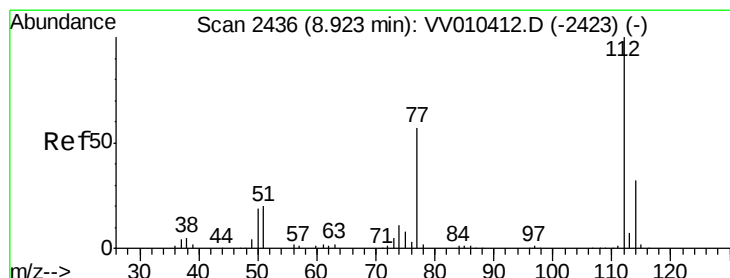
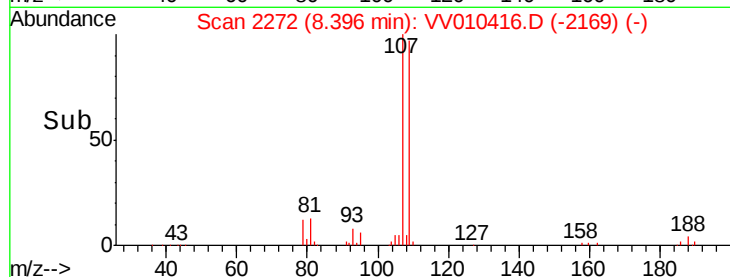
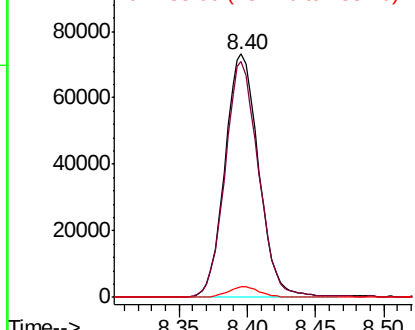
ClientSampleId :

VSTD02577

Tgt Ion:	107	Resp:	126137
Ion	Ratio	Lower	Upper
107	100		
109	97.0	64.9	120.5
188	4.1	3.0	4.6



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: 23.972 ug/L

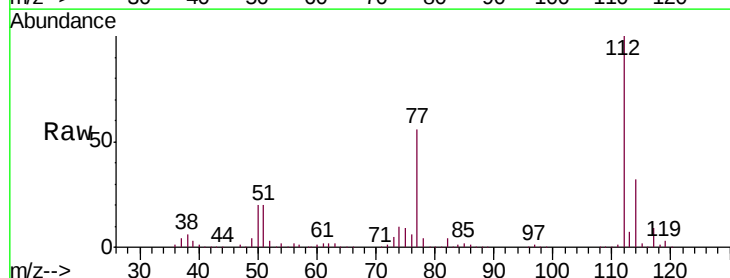
RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

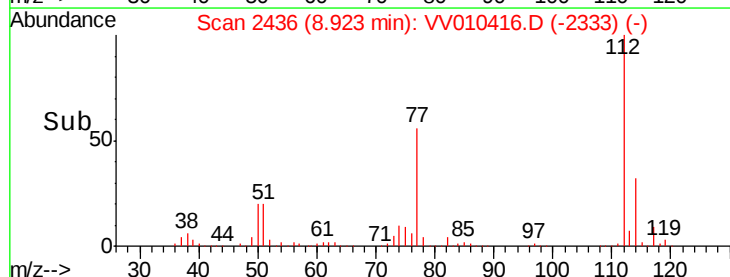
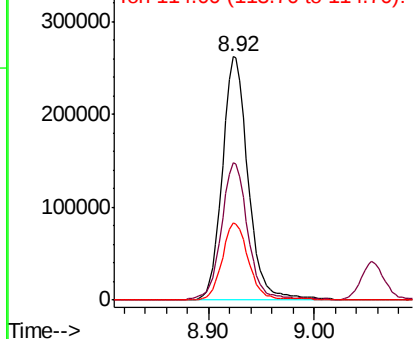
Lab File: VV010416.D

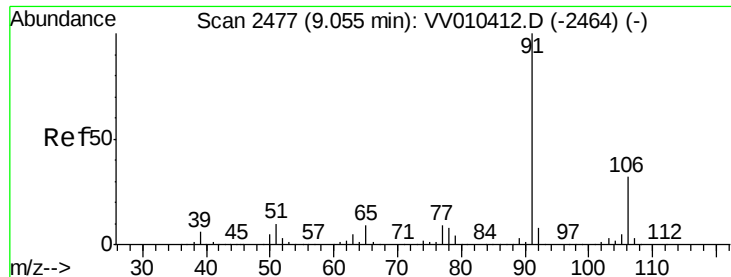
Acq: 22 Apr 2019 15:38

Tgt Ion:	112	Resp:	443895
Ion	Ratio	Lower	Upper
112	100		
77	56.2	46.2	69.2
114	31.5	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





#53

Ethylbenzene

Concen: 23.843 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

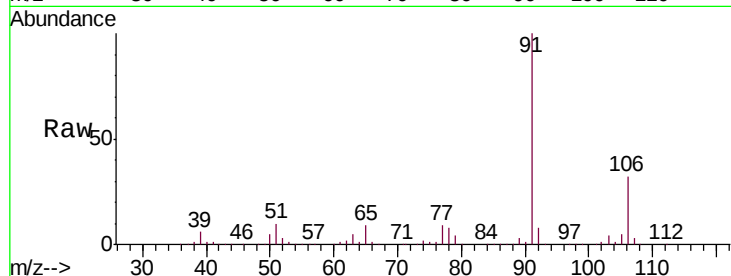
VSTD02577

Tgt Ion: 91 Resp: 736300

Ion Ratio Lower Upper

91 100

106 31.8 22.5 41.9



Abundance Ion 91.00 (90.70 to 91.70): VV010416.D (-2374) (-)

Ion 106.00 (105.70 to 106.70): VV010416.D (-2374) (-)

9.05

400000

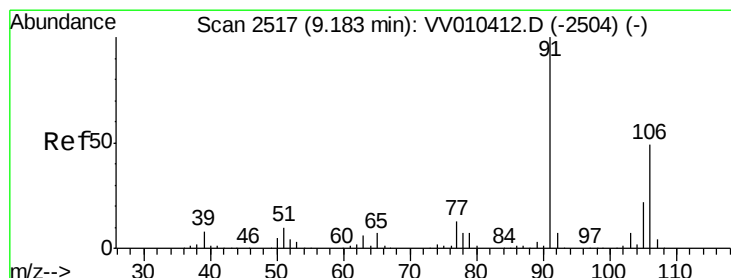
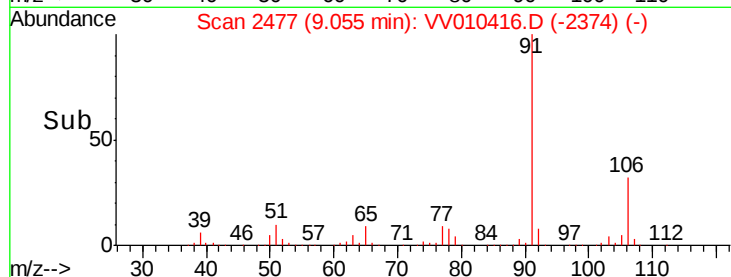
300000

200000

100000

0

Time-->



#54

m,p-Xylene

Concen: 23.280 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV010416.D

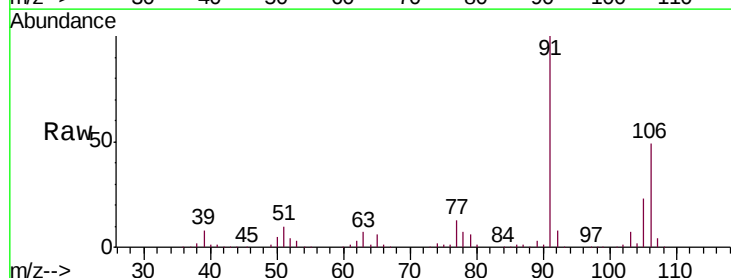
Acq: 22 Apr 2019 15:38

Tgt Ion: 106 Resp: 281830

Ion Ratio Lower Upper

106 100

91 203.5 142.5 264.7



Abundance Ion 106.00 (105.70 to 106.70): VV010416.D (-2414) (-)

Ion 91.00 (90.70 to 91.70): VV010416.D (-2414) (-)

9.18

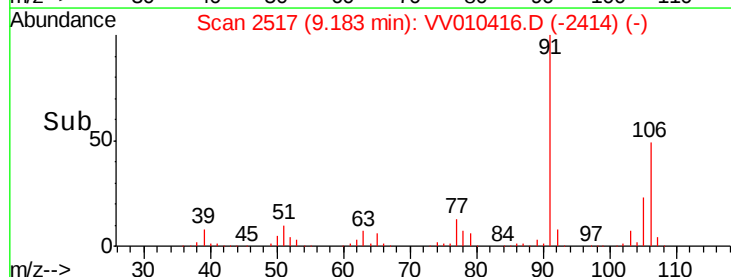
300000

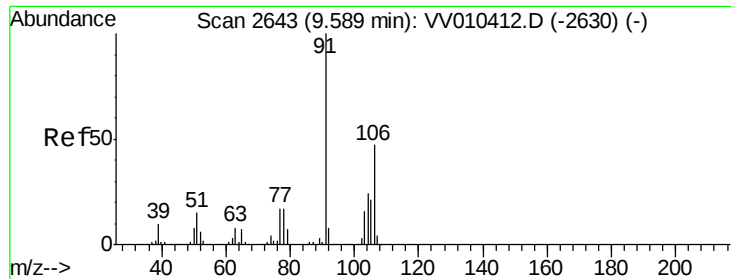
200000

100000

0

Time-->





#55

o-xylene

Concen: 23.946 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

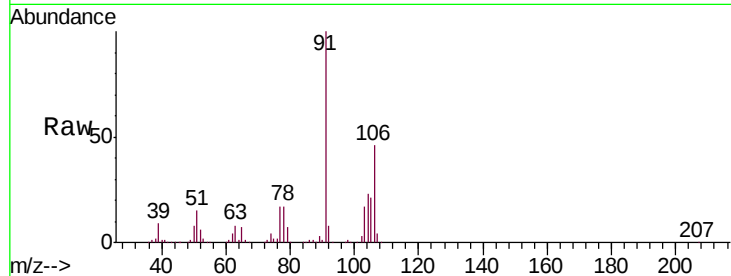
VSTD02577

Tgt Ion:106 Resp: 288764

Ion Ratio Lower Upper

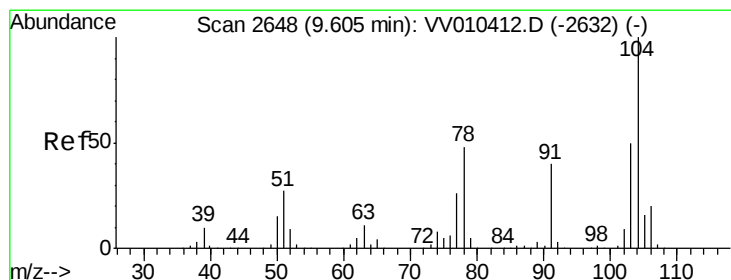
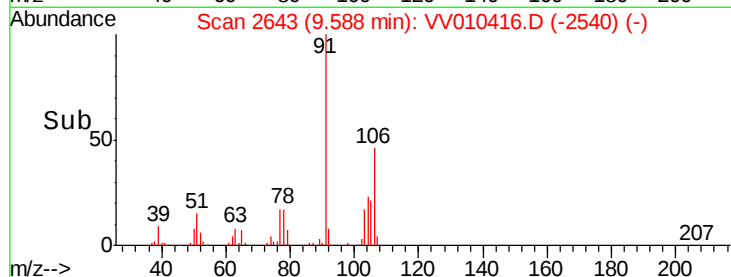
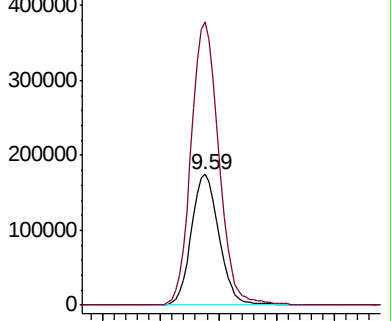
106 100

91 216.8 148.5 275.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.489 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV010416.D

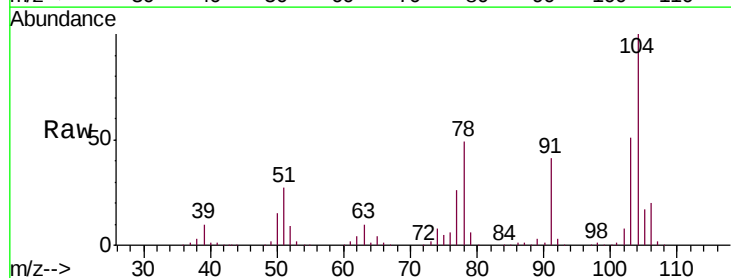
Acq: 22 Apr 2019 15:38

Tgt Ion:104 Resp: 487227

Ion Ratio Lower Upper

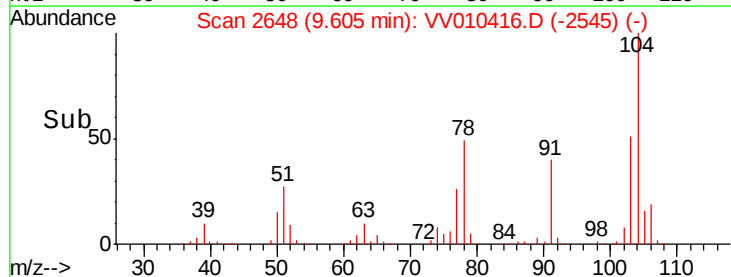
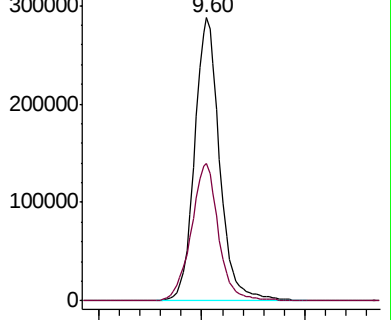
104 100

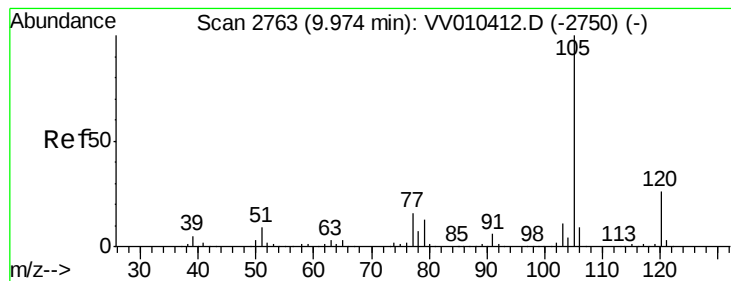
78 48.5 33.3 61.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.850 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

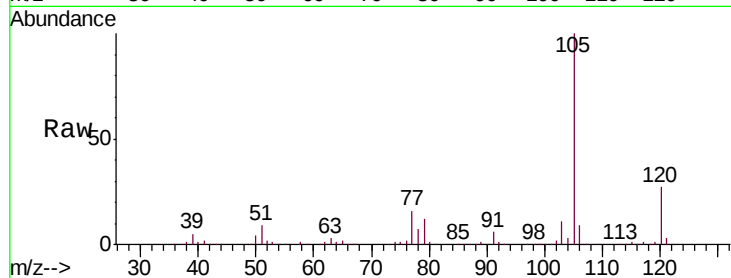
Tgt Ion: 105 Resp: 777016

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.0

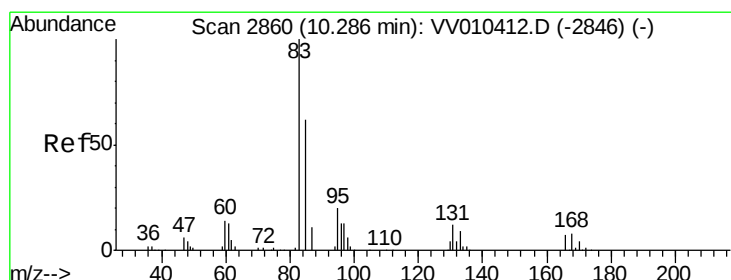
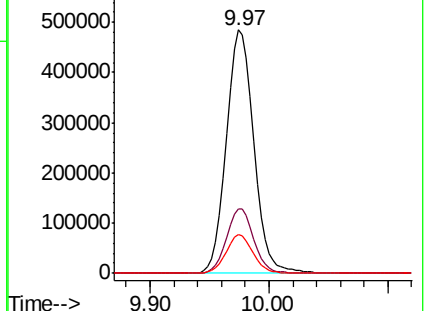
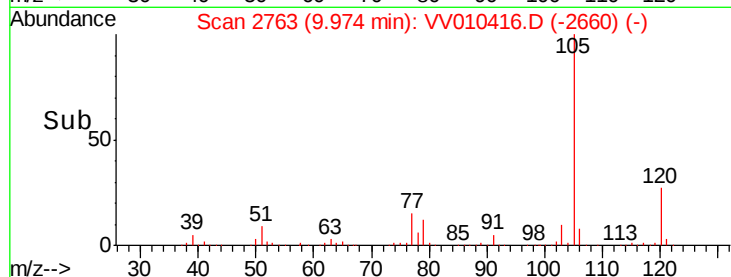
77 15.8 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 26.049 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

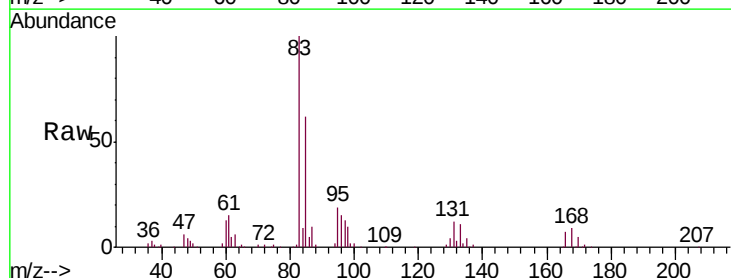
Tgt Ion: 83 Resp: 162797

Ion Ratio Lower Upper

83 100

85 62.4 43.6 81.0

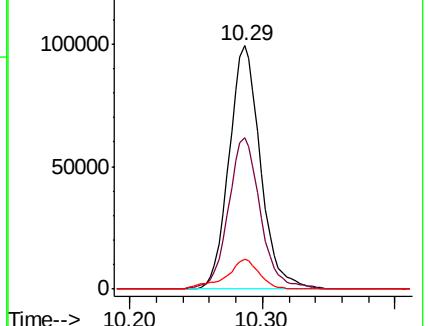
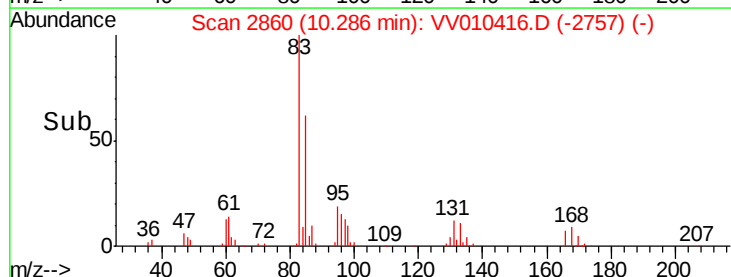
131 12.2 9.8 14.6

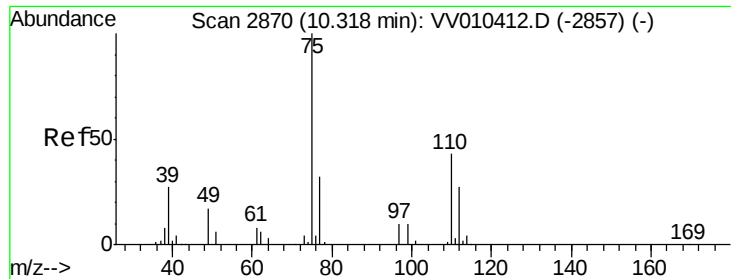


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

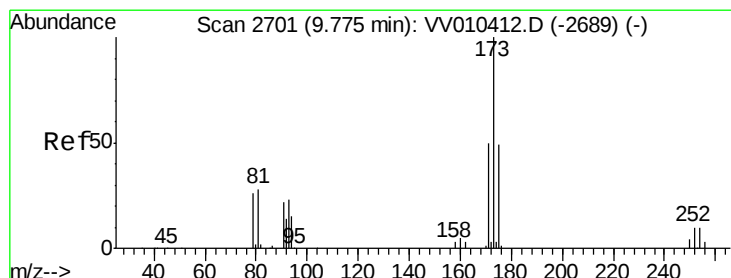
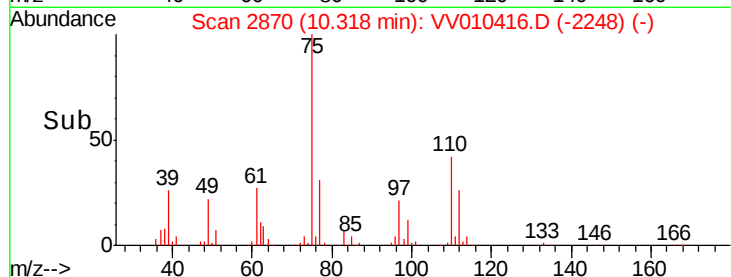
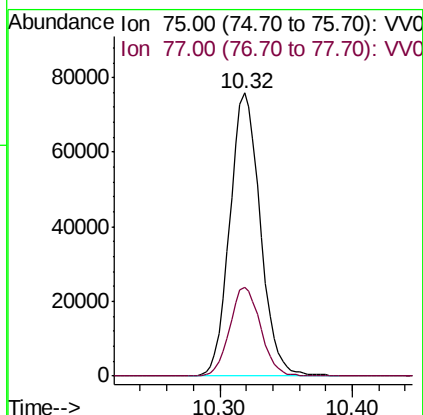
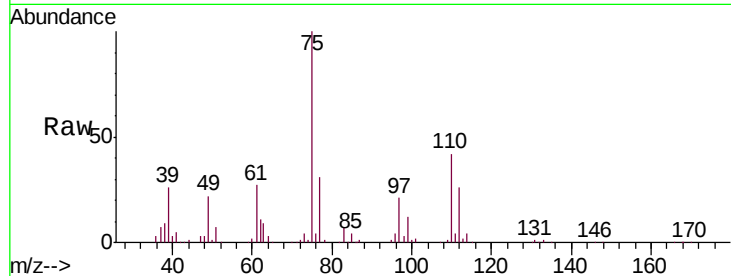




#59
 1,2,3-Trichloropropane
 Concen: 26.262 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

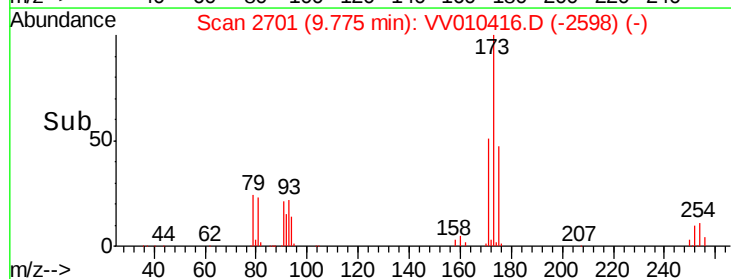
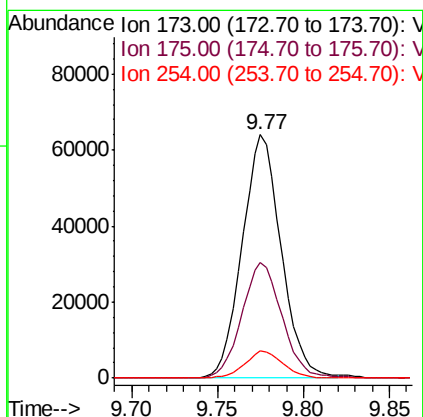
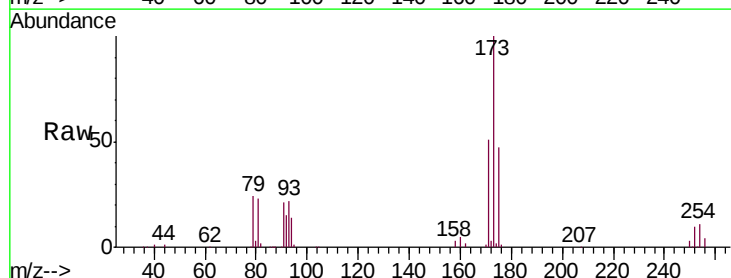
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

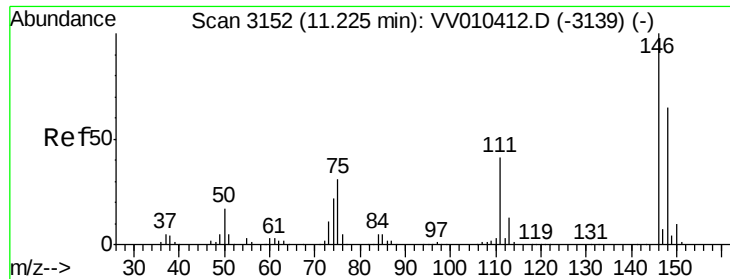
Tgt Ion: 75 Resp: 121606
 Ion Ratio Lower Upper
 75 100
 77 31.8 26.2 39.2



#62
 Bromoform
 Concen: 25.430 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion: 173 Resp: 100743
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.3 58.9
 254 10.8 8.2 12.4

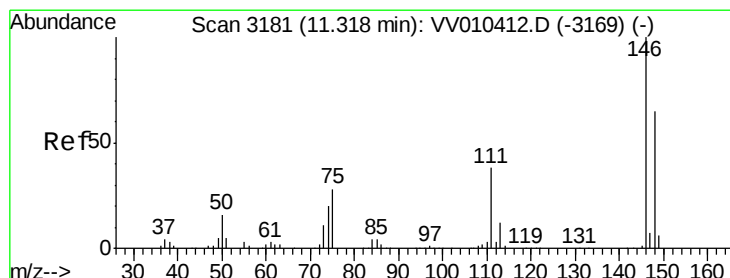
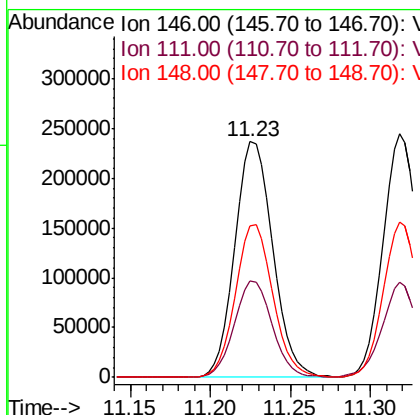
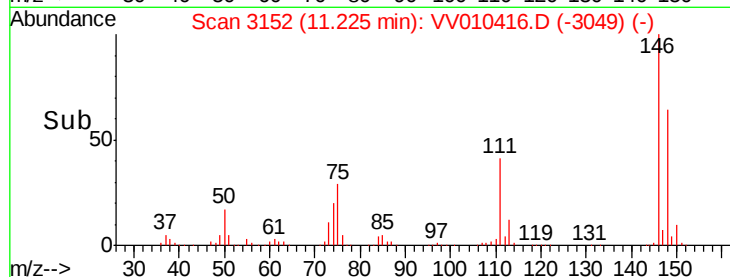
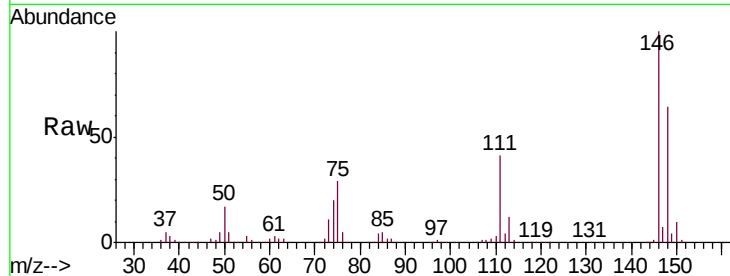




#63
 1,3-Dichlorobenzene
 Concen: 24.783 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

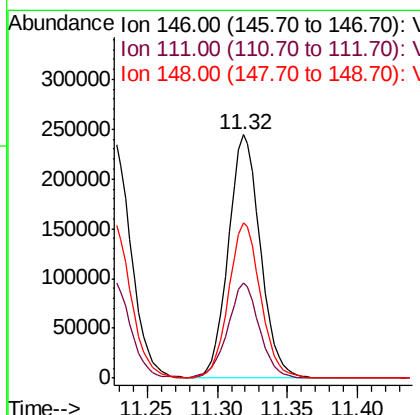
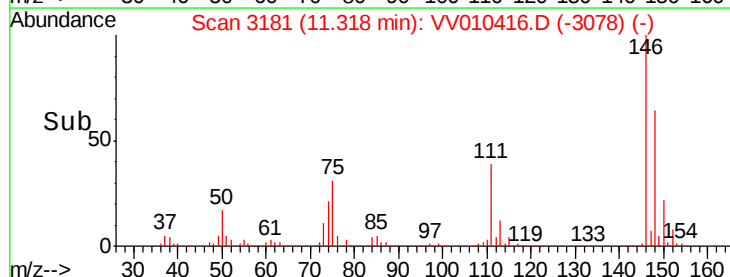
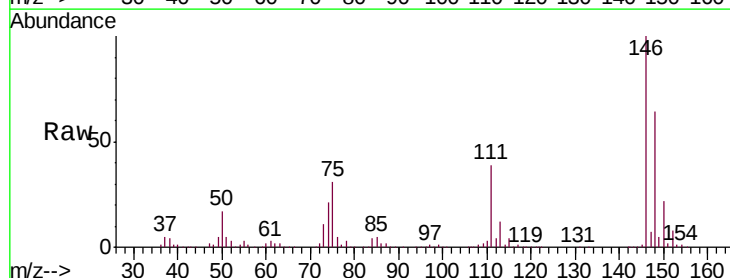
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

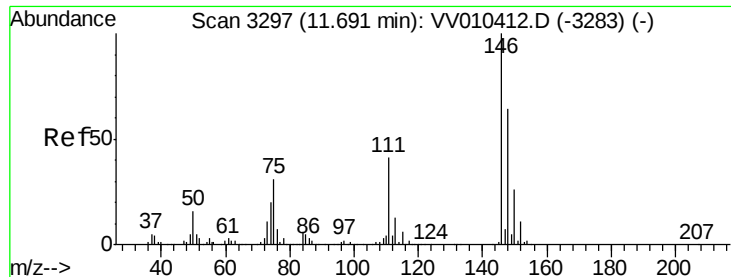
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	28.8	53.4
148	64.3	45.6	84.6



#64
 1,4-Dichlorobenzene
 Concen: 24.347 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	26.9	49.9
148	63.7	45.6	84.6





#65

1,2-Dichlorobenzene

Concen: 24.744 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

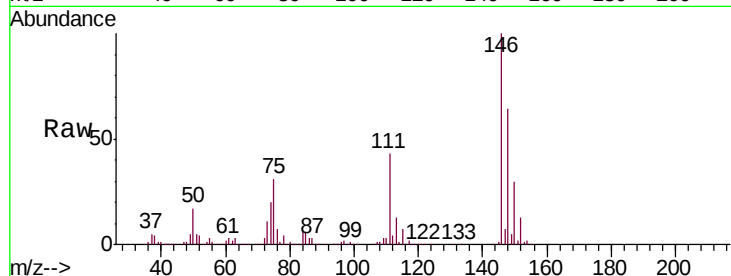
Tgt Ion:146 Resp: 371983

Ion Ratio Lower Upper

146 100

111 42.5 32.9 49.3

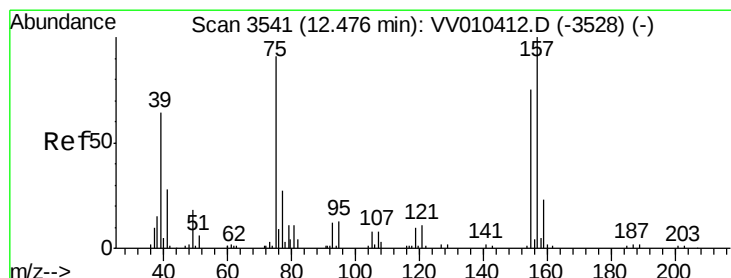
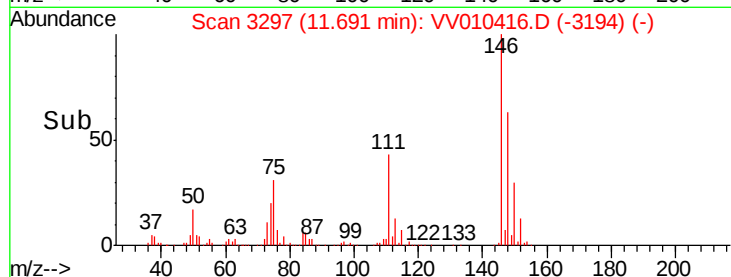
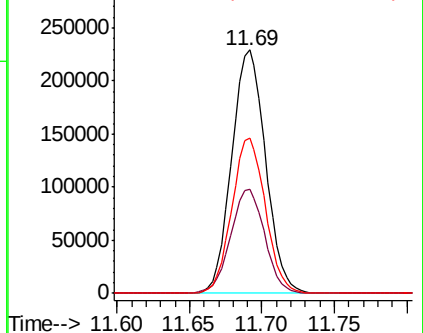
148 63.6 51.4 77.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 28.407 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

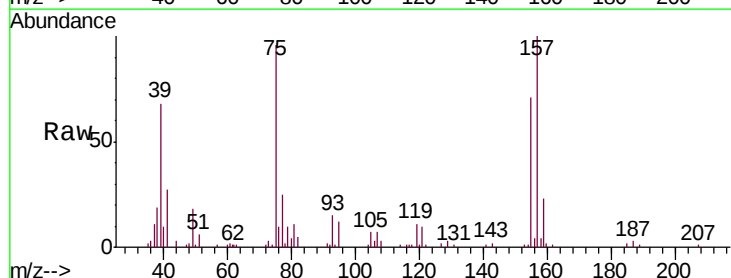
Tgt Ion: 75 Resp: 28303

Ion Ratio Lower Upper

75 100

157 103.9 88.2 132.2

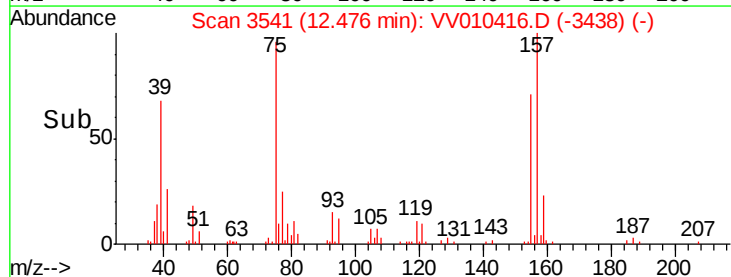
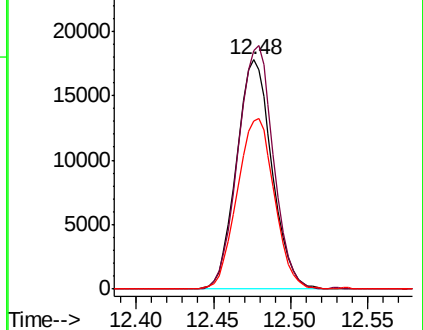
155 73.6 66.4 99.6

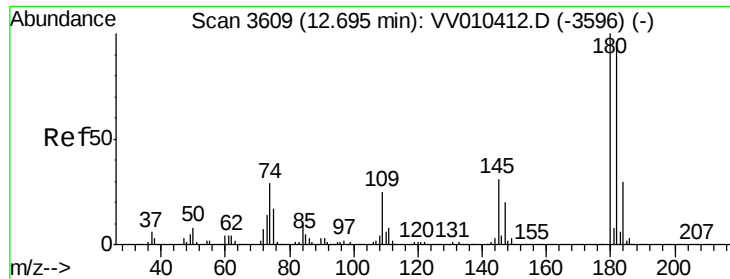


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

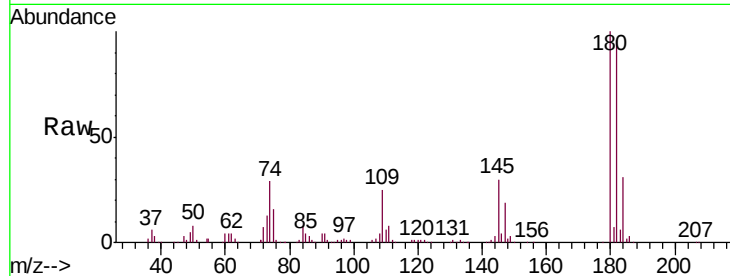




#67
 1,3,5-Trichlorobenzene
 Concen: 24.482 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.2
184	30.3	24.1	36.1
145	30.3	24.5	36.7



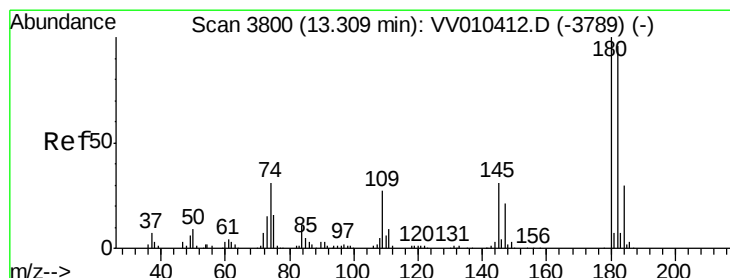
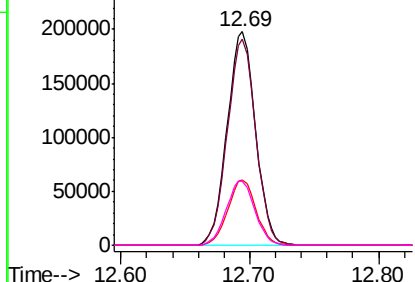
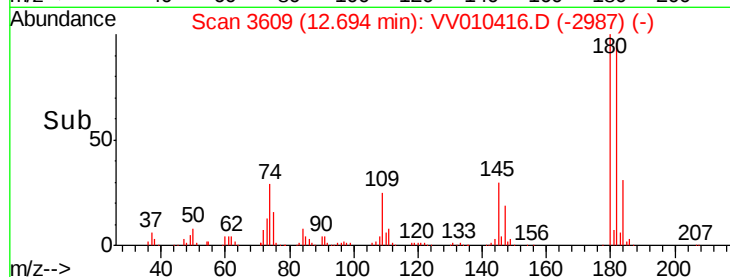
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

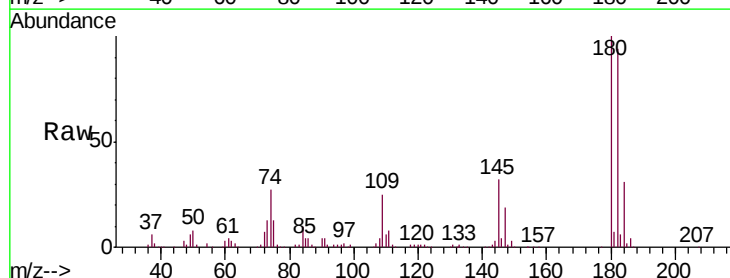
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.354 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010416.D
 Acq: 22 Apr 2019 15:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.3	114.5
145	31.3	25.1	37.7

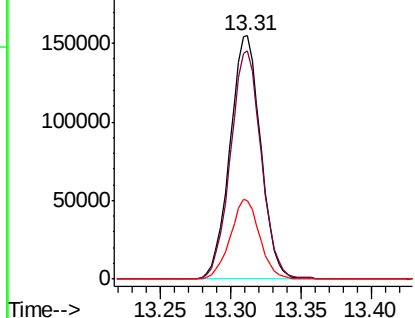
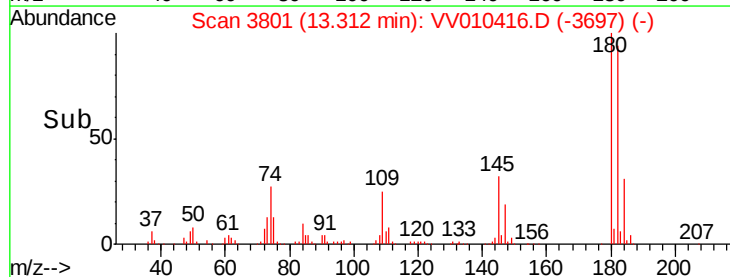


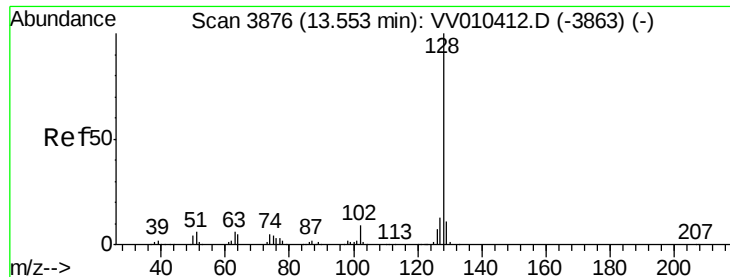
Abundance

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: 26.514 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

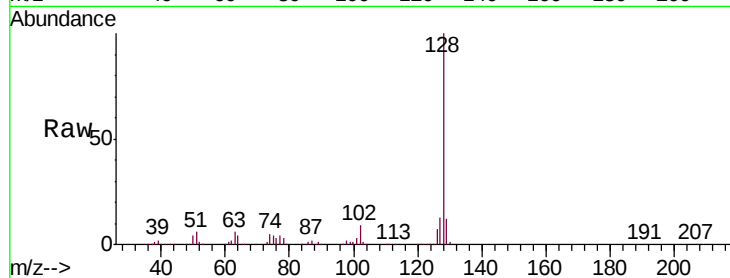
Tgt Ion:128 Resp: 397389

Ion Ratio Lower Upper

128 100

129 11.1 8.4 12.6

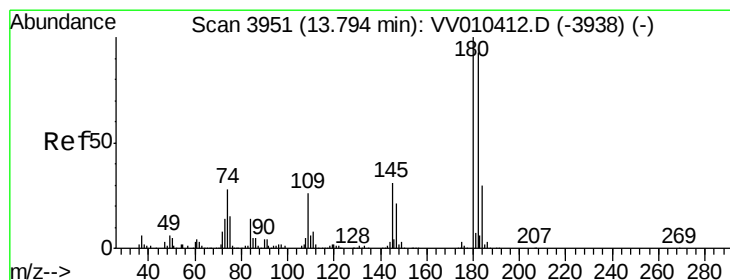
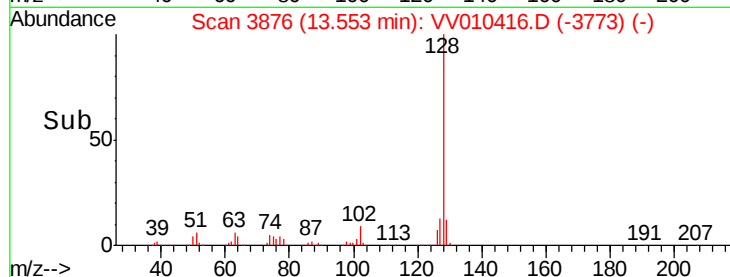
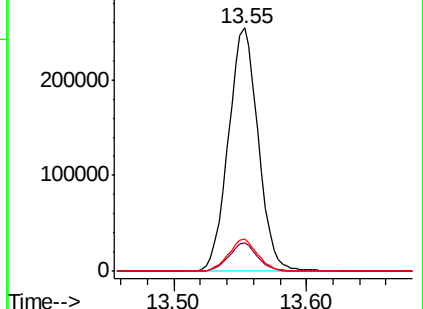
127 13.0 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.934 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV010416.D

Acq: 22 Apr 2019 15:38

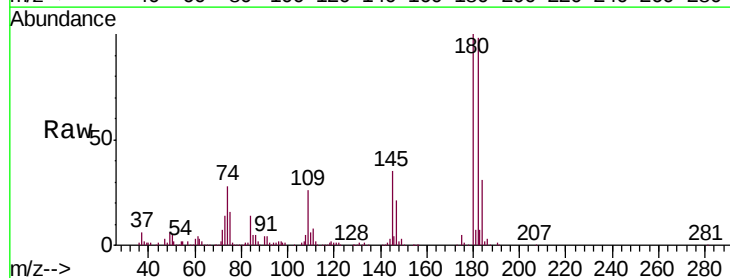
Tgt Ion:180 Resp: 223844

Ion Ratio Lower Upper

180 100

182 95.9 76.6 114.8

145 34.0 25.8 38.8



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

