

Data File : VV010316.D
Acq On : 13 Apr 2019 04:59
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Quant Time: Apr 13 05:56:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Sat Apr 13 05:50:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	288203	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	275062	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	134874	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	69398	20.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.68%
7) Chloroethane-d5	1.56	69	69852	24.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.00%
10) 1,1-Dichloroethene-d2	2.12	63	158970	18.83	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.32%
20) 2-Butanone-d5	3.92	46	57708	68.74	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	137.48%#
24) Chloroform-d	4.39	84	179071	27.21	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	108.84%
26) 1,2-Dichloroethane-d4	5.07	65	108280	28.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	115.56%
29) Benzene-d6	5.09	84	341263	25.73	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.92%
33) 1,2-Dichloropropane-d6	6.11	67	107346	27.21	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	108.84%
37) Toluene-d8	7.36	98	321462	24.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.40%
38) trans-1,3-Dichloropropene-	7.66	79	43106	26.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.84%
39) 2-Hexanone-d5	8.13	63	40910	60.04	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	120.08%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	101610	28.70	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	114.80%
61) 1,2-Dichlorobenzene-d4	11.67	152	125277	25.15	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.13	85	99985	21.649 ug/L	100
3) Chloromethane	1.24	50	92720	24.466 ug/L	97
5) Vinyl chloride	1.32	62	96123	23.587 ug/L	100
6) Bromomethane	1.51	94	76061	23.028 ug/L	99
8) Chloroethane	1.58	64	67537	26.577 ug/L	99
9) Trichlorofluoromethane	1.75	101	198024	23.992 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	87575	19.820 ug/L	97
12) 1,1-Dichloroethene	2.13	96	80859	21.265 ug/L	95
13) Acetone	2.18	43	44591	49.710 ug/L	95
14) Carbon disulfide	2.31	76	216936	23.625 ug/L	100
15) Methyl Acetate	2.45	43	50528	31.627 ug/L	97
16) Methylene chloride	2.53	84	115271	20.423 ug/L	97
17) Methyl tert-butyl Ether	2.80	73	246197	29.922 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	95670	26.480 ug/L	91
19) 1,1-Dichloroethane	3.22	63	165530	27.852 ug/L	99
21) 2-Butanone	4.01	43	61858	60.460 ug/L	99
22) cis-1,2-Dichloroethene	3.95	96	110120	28.012 ug/L	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	56857	29.372	ug/L	98
25) Chloroform	4.42	83	199369	28.242	ug/L	98
27) 1,2-Dichloroethane	5.17	62	138132	30.574	ug/L	100
30) Cyclohexane	4.72	56	114138	22.158	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	153341	26.651	ug/L	99
32) Carbon tetrachloride	4.87	117	135175	25.212	ug/L	98
34) Benzene	5.14	78	379288	27.203	ug/L	100
35) Trichloroethene	5.96	95	105543	26.198	ug/L	97
36) Methylcyclohexane	6.17	83	140109	23.274	ug/L	100
40) 1,2-Dichloropropane	6.22	63	99736	29.233	ug/L	98
41) Bromodichloromethane	6.55	83	135125	29.724	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	146524	28.340	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	140037	63.418	ug/L	99
44) Toluene	7.43	91	420126	26.802	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	124335	28.654	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	89218	30.828	ug/L	97
47) Tetrachloroethene	8.02	164	86966	24.351	ug/L	99
49) 2-Hexanone	8.18	43	90989	62.672	ug/L	97
50) Dibromochloromethane	8.29	129	107018	30.229	ug/L	95
51) 1,2-Dibromoethane	8.40	107	89037	30.164	ug/L	97
52) Chlorobenzene	8.92	112	288188	26.348	ug/L	98
53) Ethylbenzene	9.05	91	444673	25.726	ug/L	99
54) m,p-Xylene	9.18	106	169904	24.917	ug/L	97
55) o-xylene	9.59	106	172976	25.474	ug/L	93
56) Styrene	9.60	104	293382	27.136	ug/L	99
57) Isopropylbenzene	9.97	105	422356	24.473	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	103343	28.891	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	75835	28.807	ug/L	100
62) Bromoform	9.77	173	60920	31.123	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	211992	25.350	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	222053	26.094	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	213974	26.805	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	13550	30.005	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	152273	24.573	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	106585	25.102	ug/L	96
69) Naphthalene	13.55	128	166080	28.783	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	108593	27.577	ug/L	99

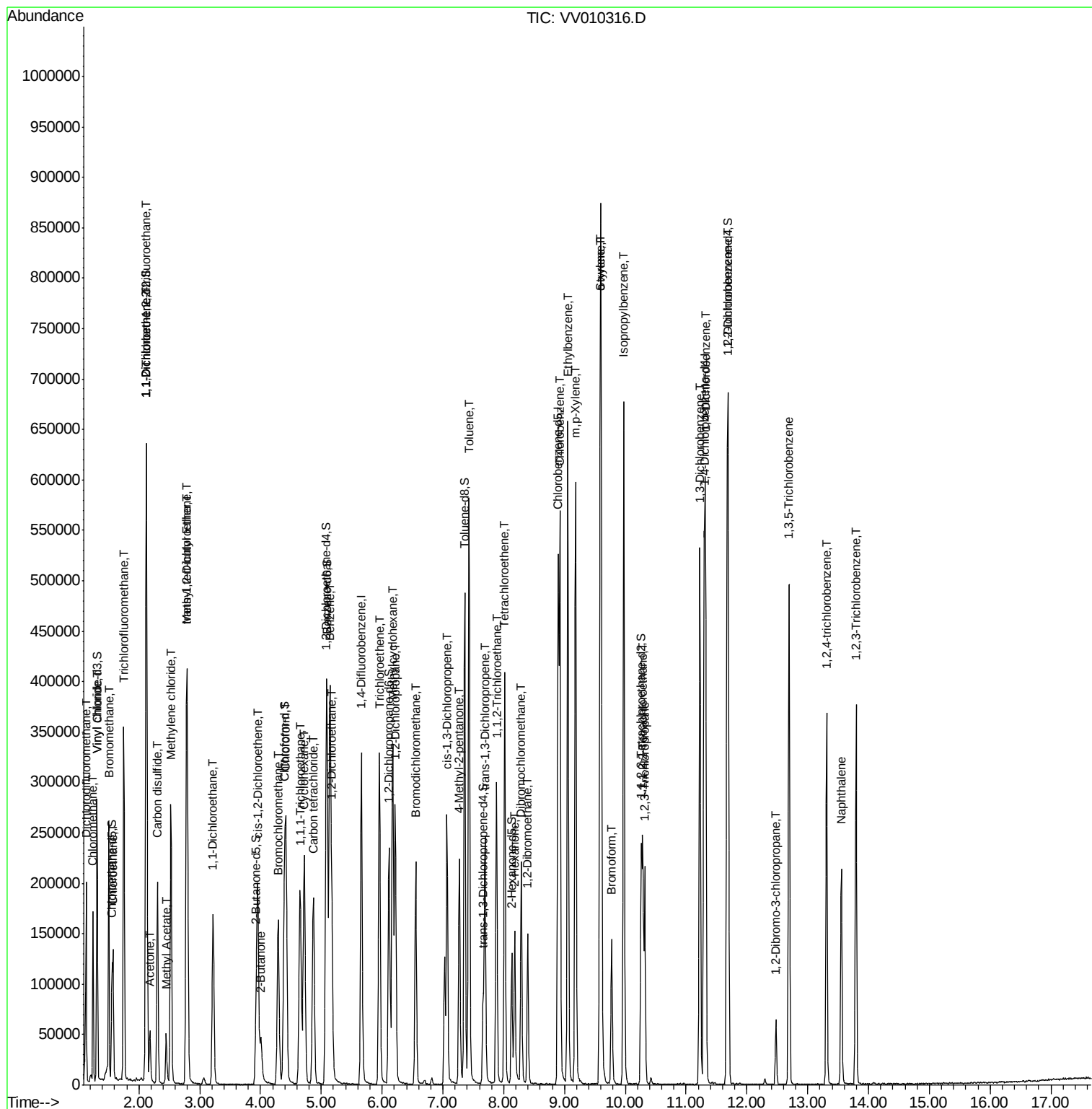
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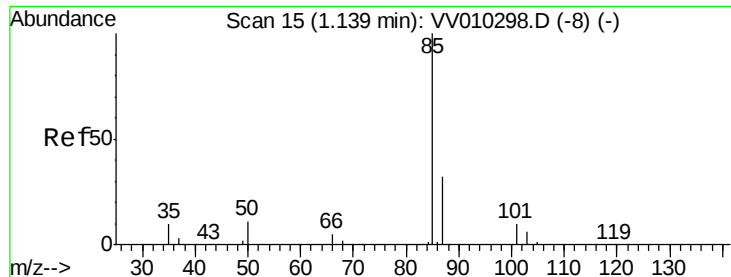
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#2

Dichlorodifluoromethane

Concen: 21.649 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

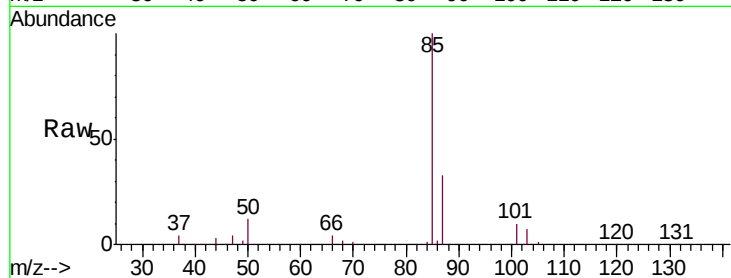
VSTD02569

Tgt Ion: 85 Resp: 99985

Ion Ratio Lower Upper

85 100

87 33.1 23.3 43.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

120000

100000

80000

60000

40000

20000

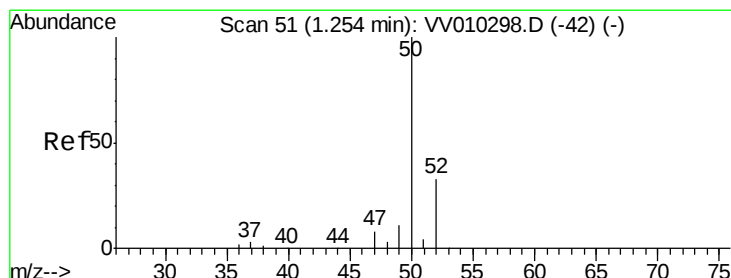
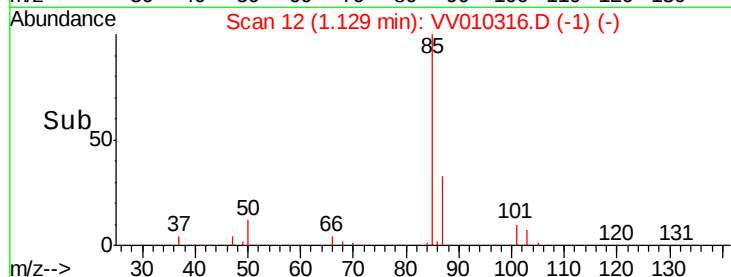
0

1.10

1.13

1.15

Time-->



#3

Chloromethane

Concen: 24.466 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV010316.D

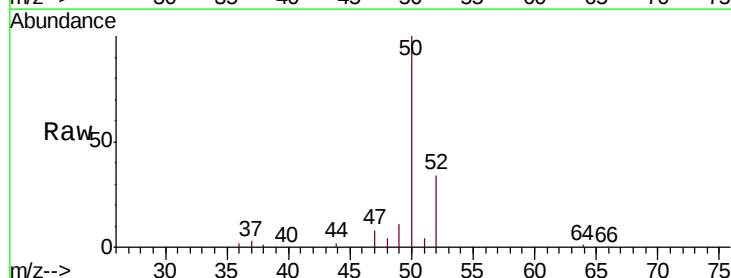
Acq: 13 Apr 2019 04:59

Tgt Ion: 50 Resp: 92720

Ion Ratio Lower Upper

50 100

52 33.9 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

120000

100000

80000

60000

40000

20000

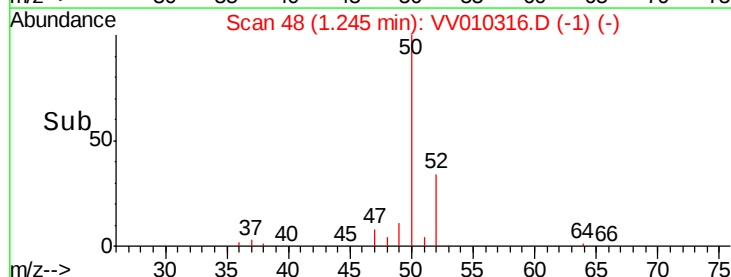
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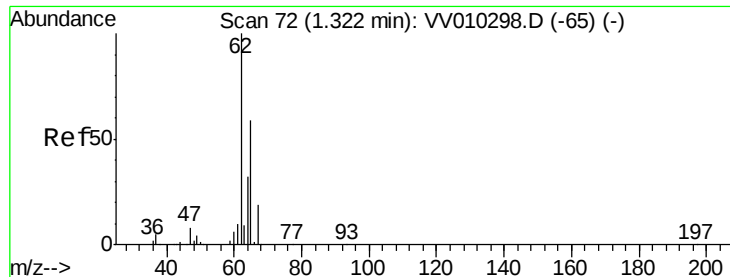
1.20

1.24

1.30

Time-->





#5

Vinyl chloride

Concen: 23.587 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

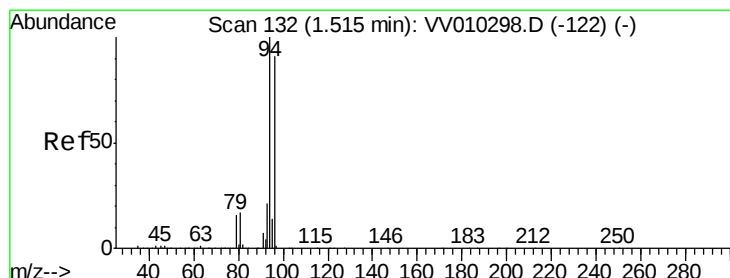
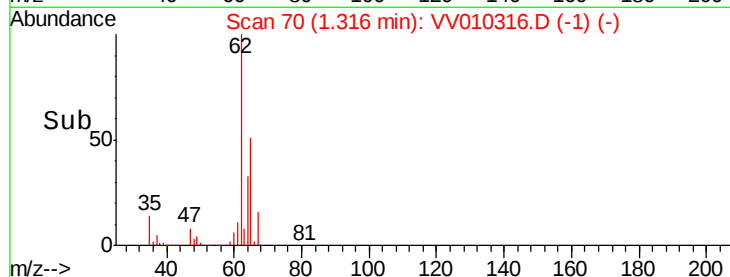
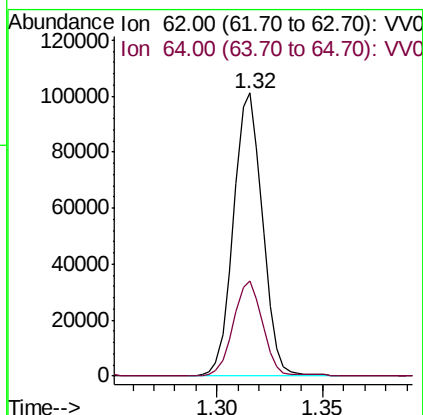
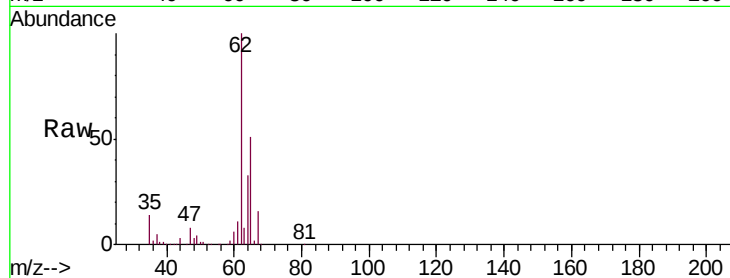
VSTD02569

Tgt Ion: 62 Resp: 96123

Ion Ratio Lower Upper

62 100

64 33.5 23.4 43.4



#6

Bromomethane

Concen: 23.028 ug/L

RT: 1.51 min Scan# 129

Delta R.T. -0.01 min

Lab File: VV010316.D

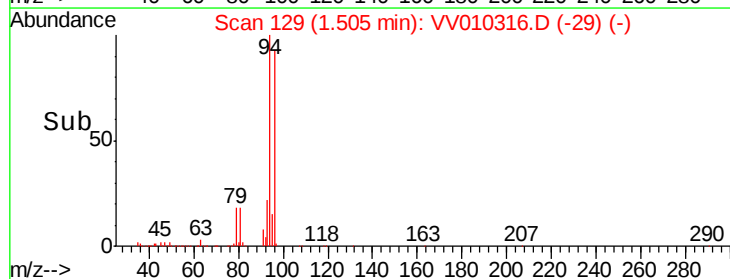
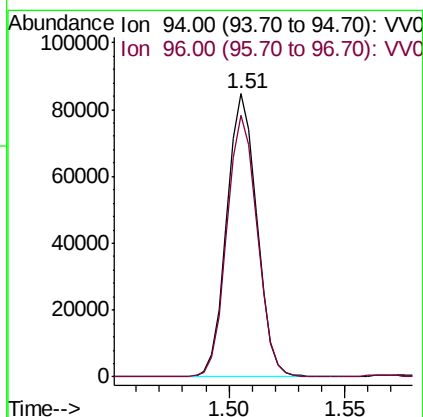
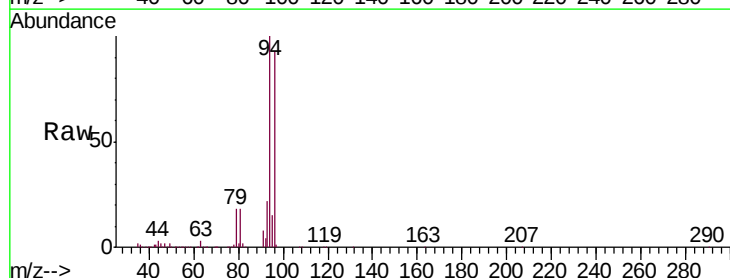
Acq: 13 Apr 2019 04:59

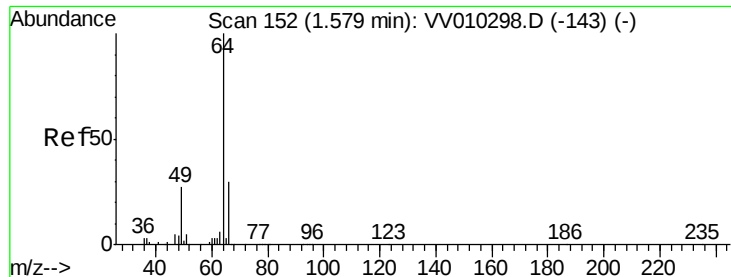
Tgt Ion: 94 Resp: 76061

Ion Ratio Lower Upper

94 100

96 93.5 9.4 179.0





#8

Chloroethane

Concen: 26.577 ug/L

RT: 1.58 min Scan# 151

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

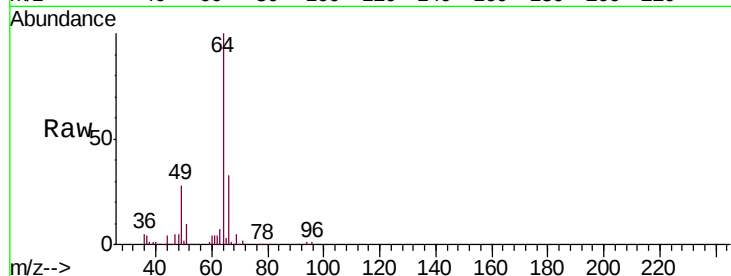
VSTD02569

Tgt Ion: 64 Resp: 67537

Ion Ratio Lower Upper

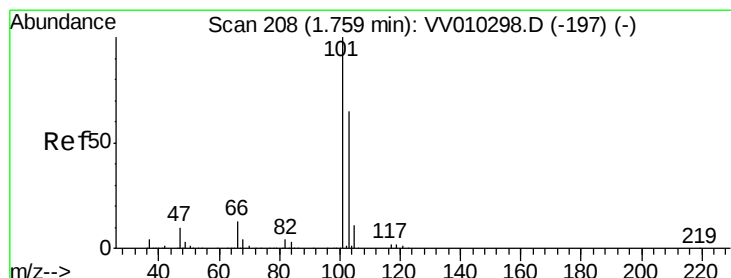
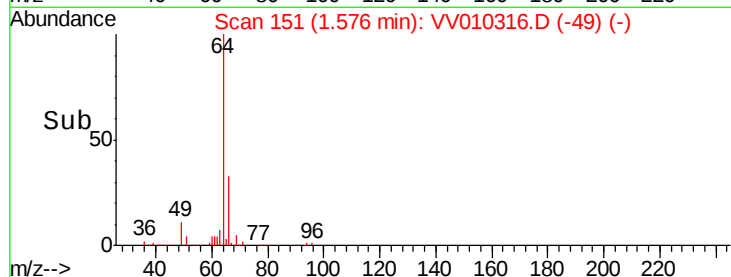
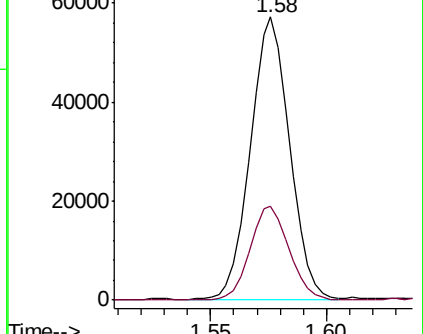
64 100

66 33.1 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV010298.D (-143) (-)

Ion 66.00 (65.70 to 66.70): VV010298.D (-143) (-)



#9

Trichlorofluoromethane

Concen: 23.992 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.01 min

Lab File: VV010316.D

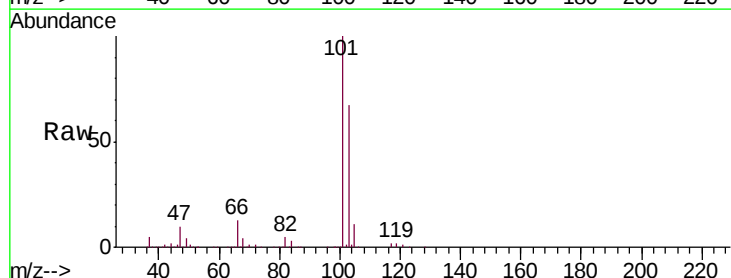
Acq: 13 Apr 2019 04:59

Tgt Ion: 101 Resp: 198024

Ion Ratio Lower Upper

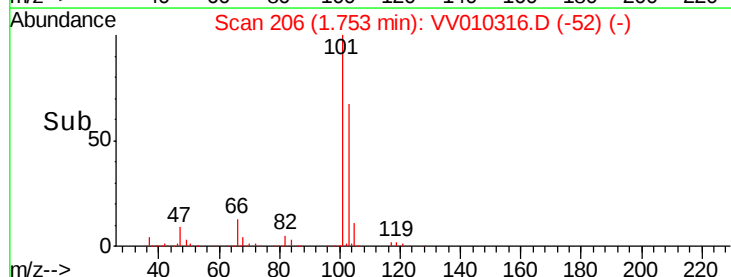
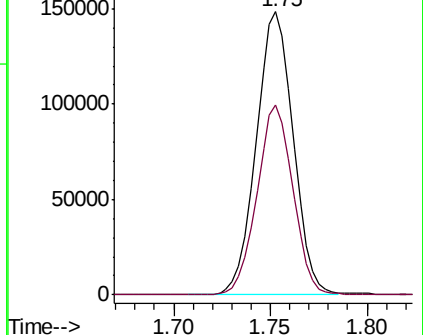
101 100

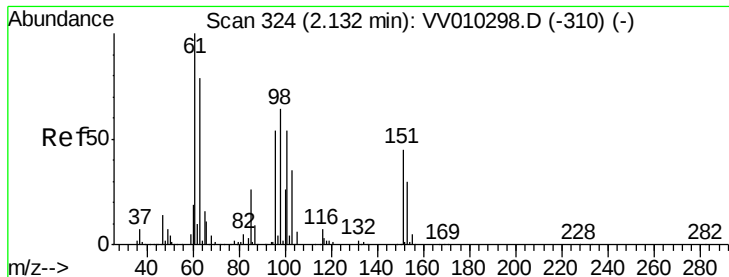
103 65.2 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV010298.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV010298.D (-197) (-)





#11

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

Concen: 19.820 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

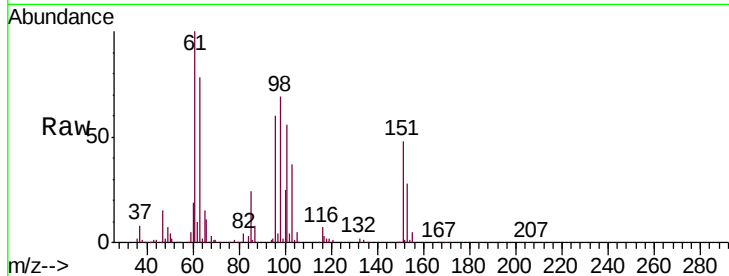
Tgt Ion:101 Resp: 87575

Ion Ratio Lower Upper

101 100

85 43.3 36.7 55.1

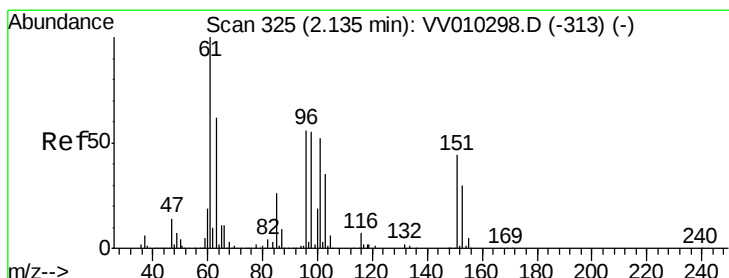
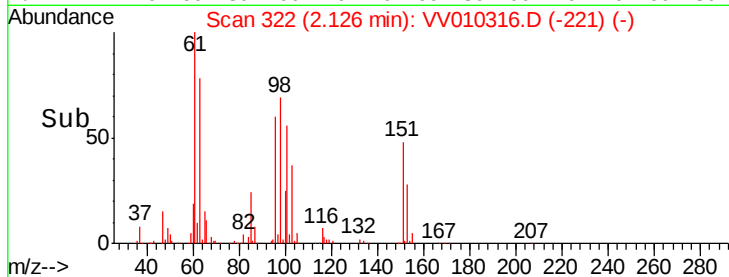
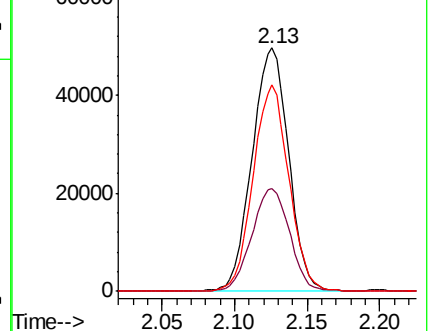
151 83.0 68.1 102.1



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: 21.265 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

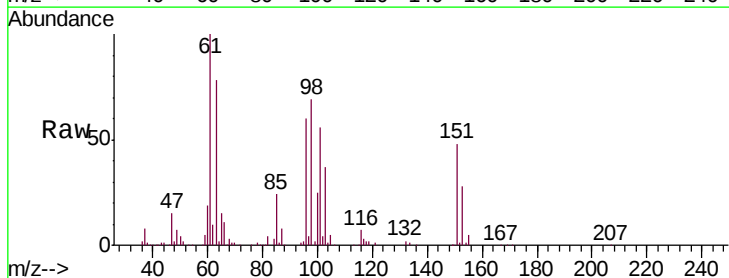
Tgt Ion: 96 Resp: 80859

Ion Ratio Lower Upper

96 100

61 166.3 125.3 232.7

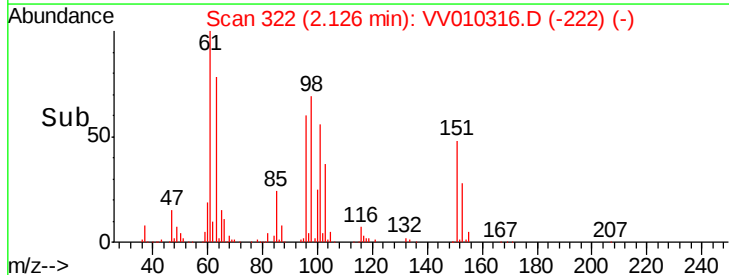
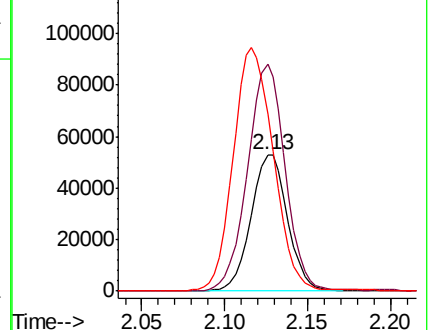
63 129.9 91.3 169.6

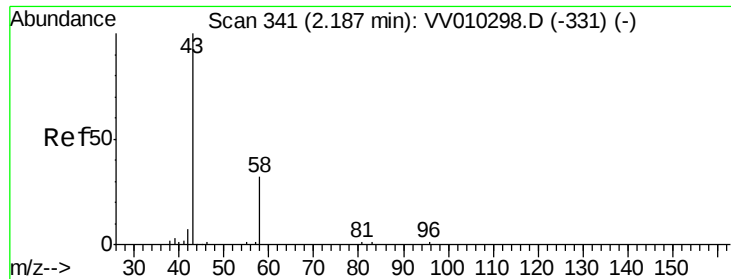


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 49.710 ug/L

RT: 2.18 min Scan# 339

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

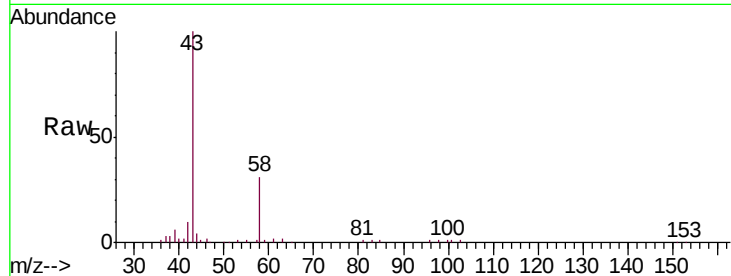
VSTD02569

Tgt Ion: 43 Resp: 44591

Ion Ratio Lower Upper

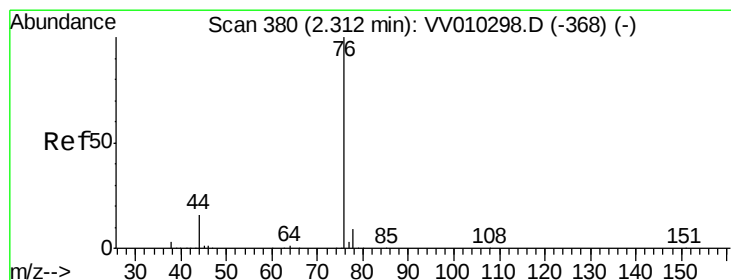
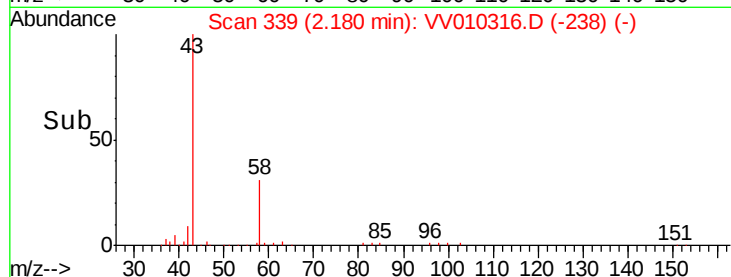
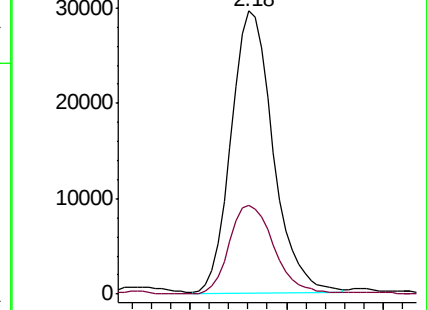
43 100

58 33.7 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV010298.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV010298.D (-331) (-)



#14

Carbon disulfide

Concen: 23.625 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV010316.D

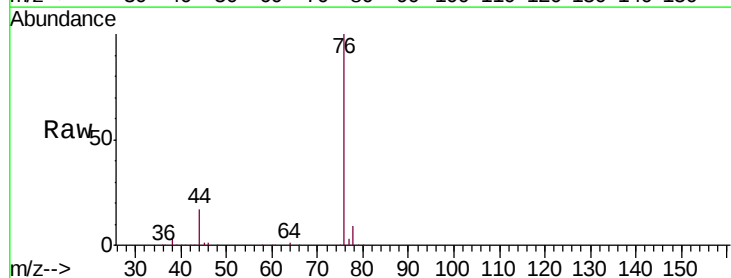
Acq: 13 Apr 2019 04:59

Tgt Ion: 76 Resp: 216936

Ion Ratio Lower Upper

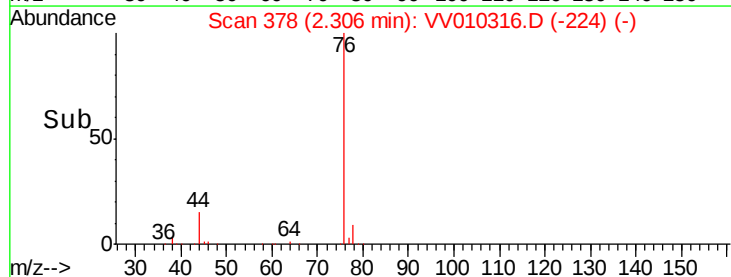
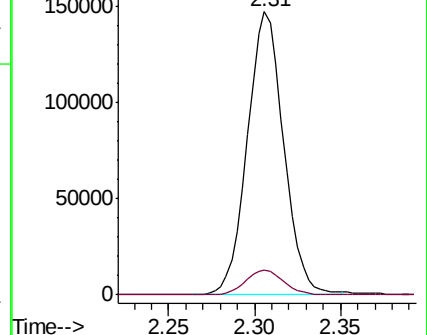
76 100

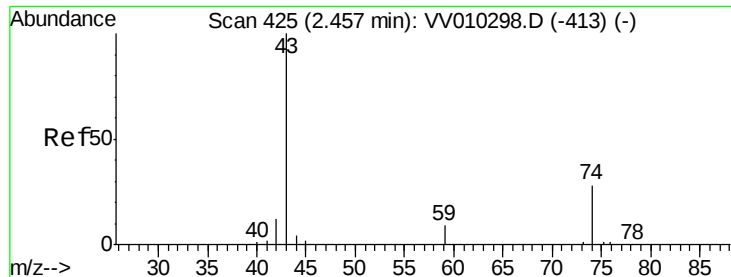
78 8.7 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VV010298.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV010298.D (-368) (-)

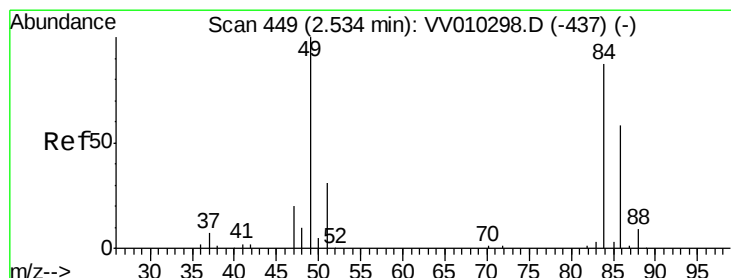
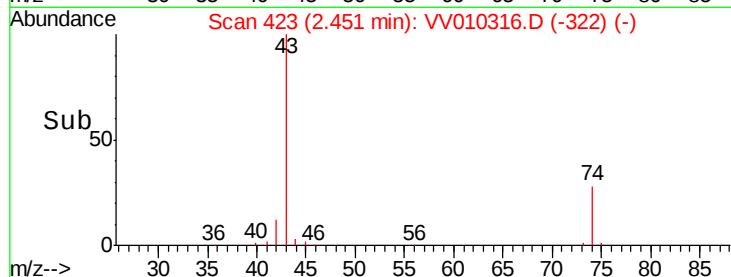
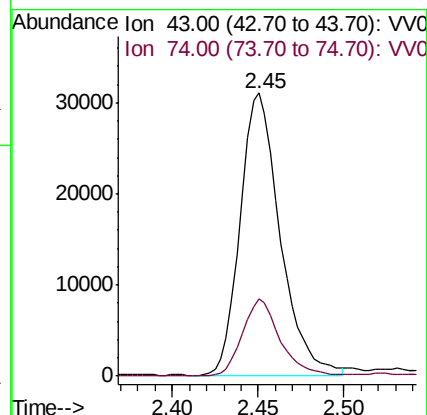
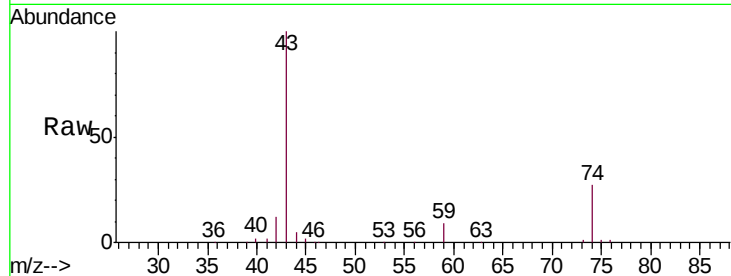




#15
Methyl Acetate
Concen: 31.627 ug/L
RT: 2.45 min Scan# 423
Delta R.T. -0.01 min
Lab File: VV010316.D
Acq: 13 Apr 2019 04:59

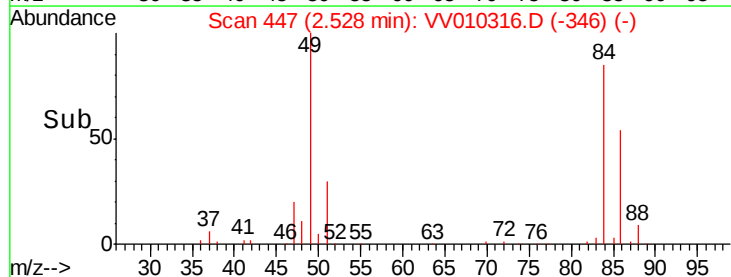
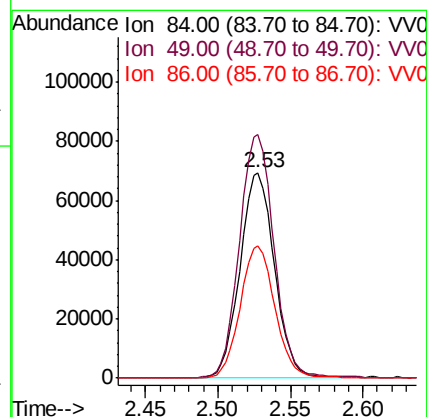
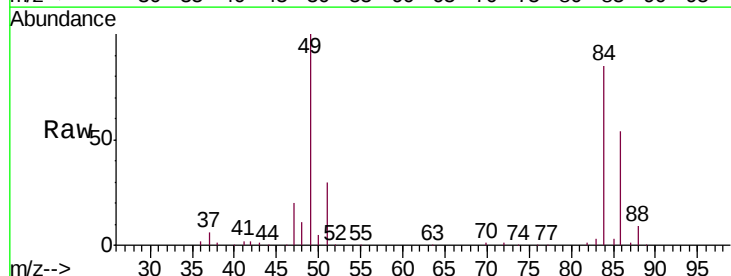
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

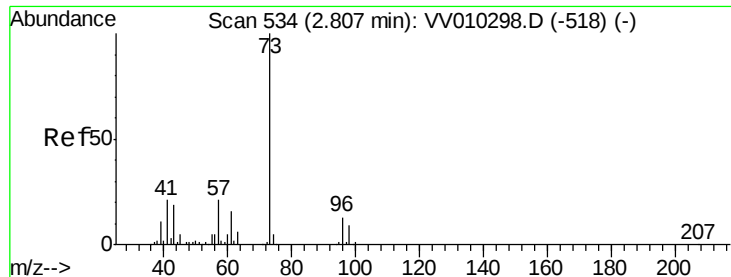
Tgt Ion: 43 Resp: 50528
Ion Ratio Lower Upper
43 100
74 25.6 19.3 28.9



#16
Methylene chloride
Concen: 20.423 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.01 min
Lab File: VV010316.D
Acq: 13 Apr 2019 04:59

Tgt Ion: 84 Resp: 115271
Ion Ratio Lower Upper
84 100
49 118.3 79.9 148.5
86 64.4 44.5 82.7





#17

Methyl tert-butyl Ether

Concen: 29.922 ug/L

RT: 2.80 min Scan# 531

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

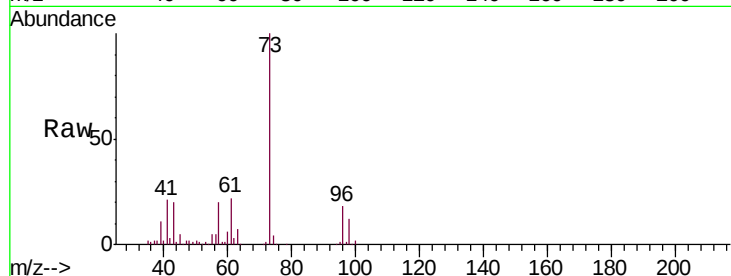
Tgt Ion: 73 Resp: 246197

Ion Ratio Lower Upper

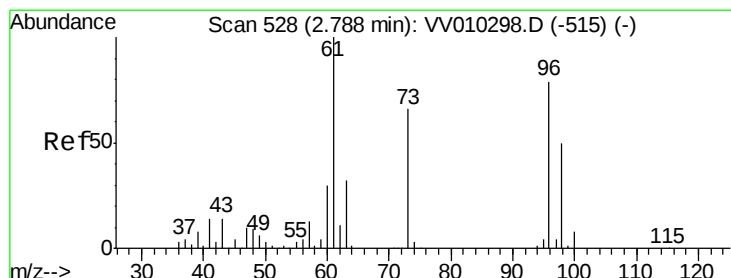
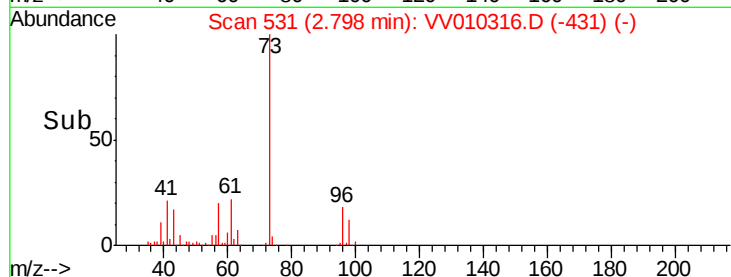
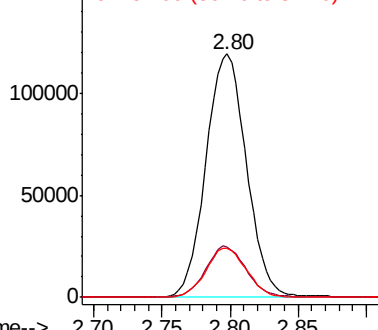
73 100

43 21.0 16.0 24.0

57 20.3 16.6 24.8



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: 26.480 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

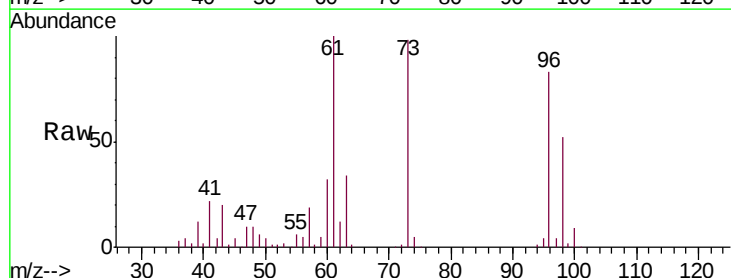
Tgt Ion: 96 Resp: 95670

Ion Ratio Lower Upper

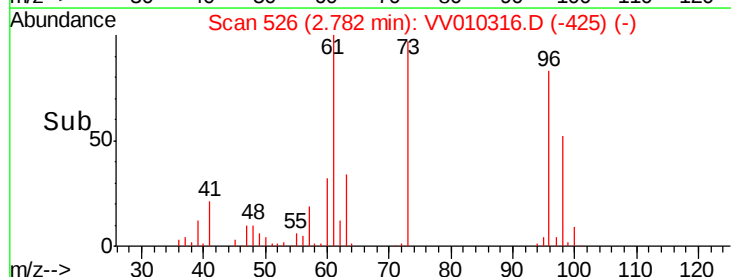
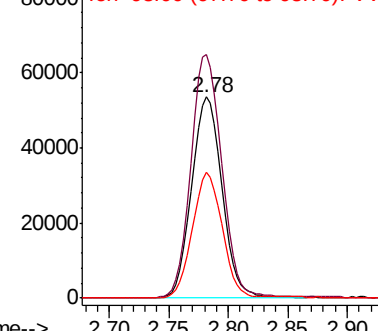
96 100

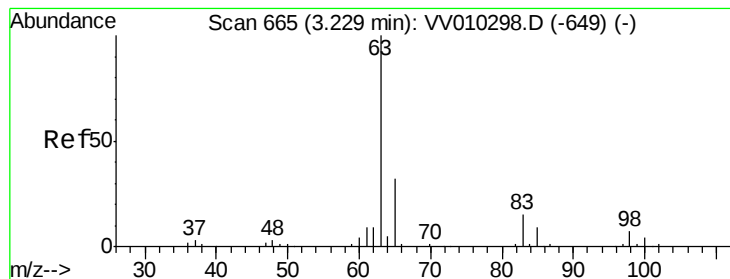
61 121.0 92.5 171.9

98 62.6 47.9 89.1



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: 27.852 ug/L

RT: 3.22 min Scan# 662

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

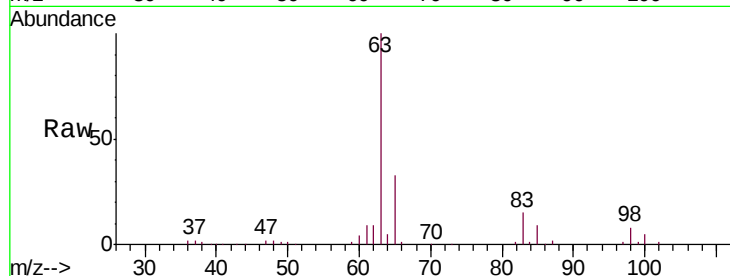
Tgt Ion: 63 Resp: 165530

Ion Ratio Lower Upper

63 100

65 33.2 23.8 44.2

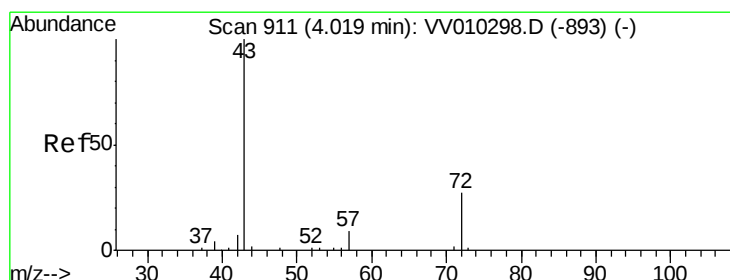
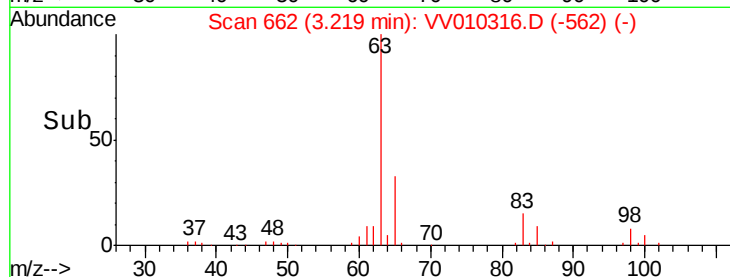
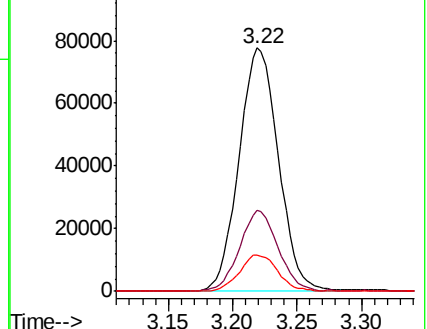
83 14.8 10.8 20.0



Abundance Ion 63.00 (62.70 to 63.70): VV010298.D (-649) (-)

Ion 65.00 (64.70 to 65.70): VV010298.D (-649) (-)

Ion 83.00 (82.70 to 83.70): VV010298.D (-649) (-)



#21

2-Butanone

Concen: 60.460 ug/L

RT: 4.01 min Scan# 907

Delta R.T. -0.01 min

Lab File: VV010316.D

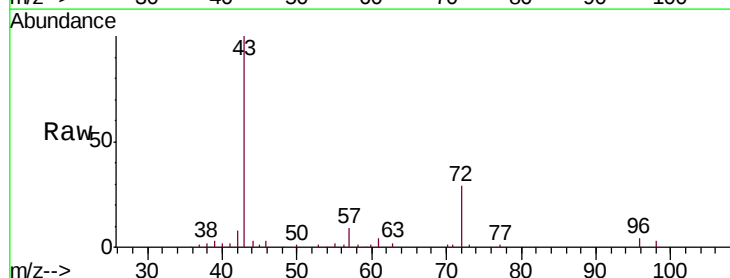
Acq: 13 Apr 2019 04:59

Tgt Ion: 43 Resp: 61858

Ion Ratio Lower Upper

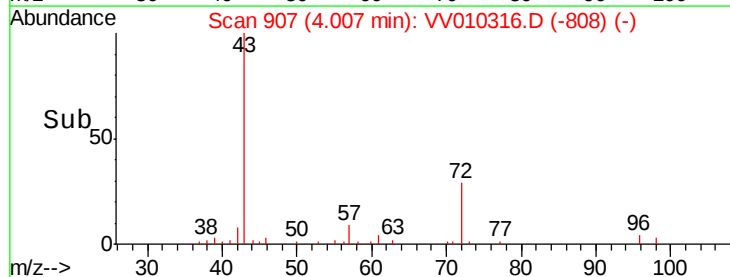
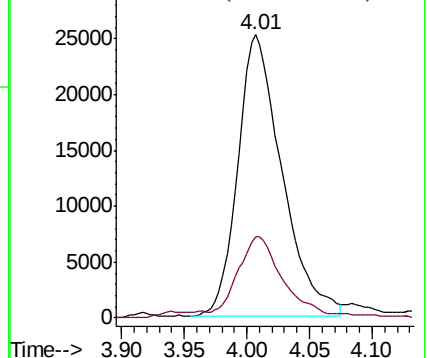
43 100

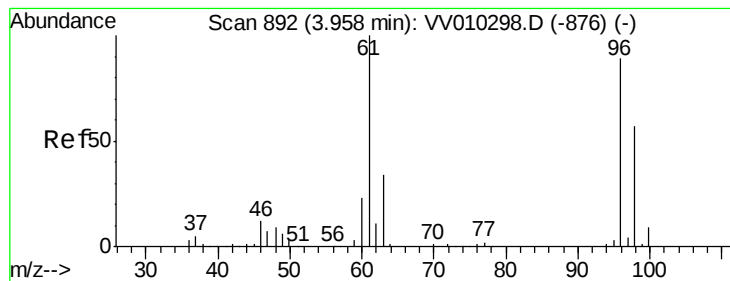
72 26.2 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VV010298.D (-893) (-)

Ion 72.00 (71.70 to 72.70): VV010298.D (-893) (-)



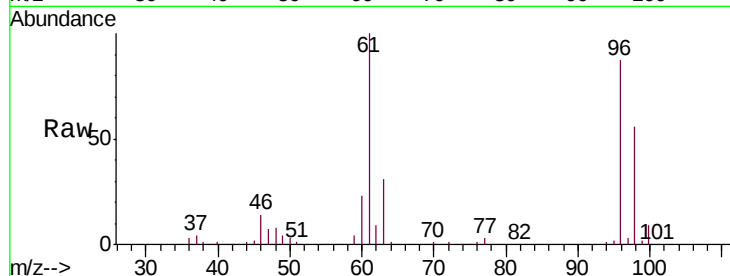


#22

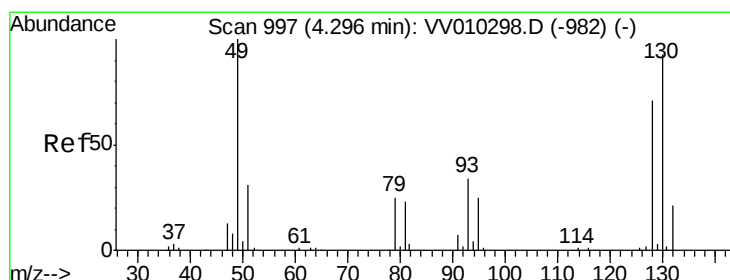
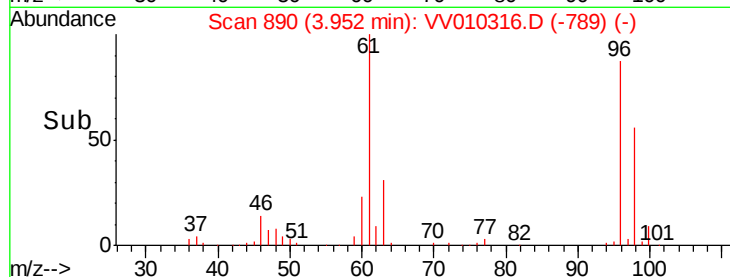
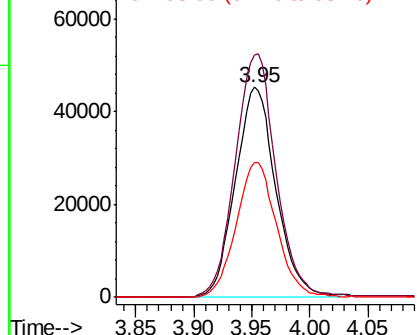
cis-1,2-Dichloroethene
 Concen: 28.012 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. -0.01 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion: 96 Resp: 110120
 Ion Ratio Lower Upper
 96 100
 61 115.6 84.9 157.7
 98 64.4 47.0 87.4



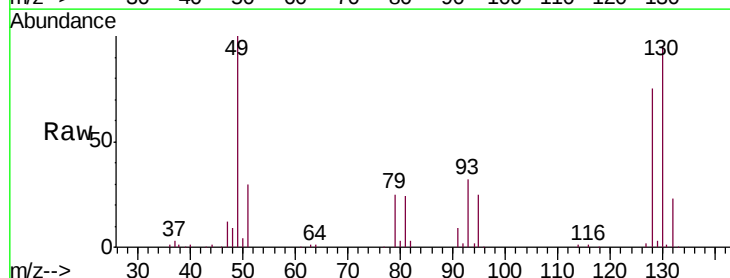
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



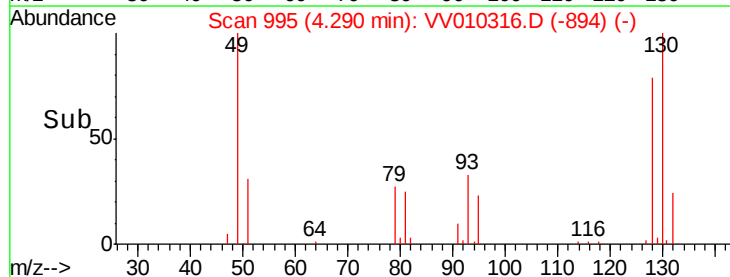
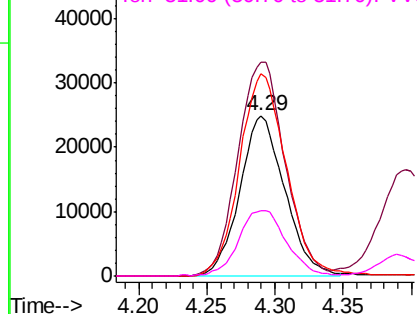
#23

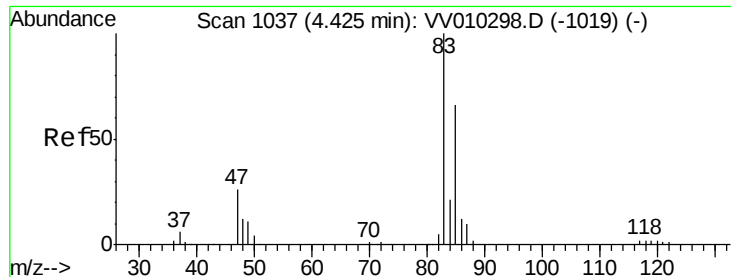
Bromochloromethane
 Concen: 29.372 ug/L
 RT: 4.29 min Scan# 995
 Delta R.T. -0.01 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Tgt Ion: 128 Resp: 56857
 Ion Ratio Lower Upper
 128 100
 49 132.9 93.4 173.4
 130 126.2 84.5 156.9
 51 40.3 32.5 48.7



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

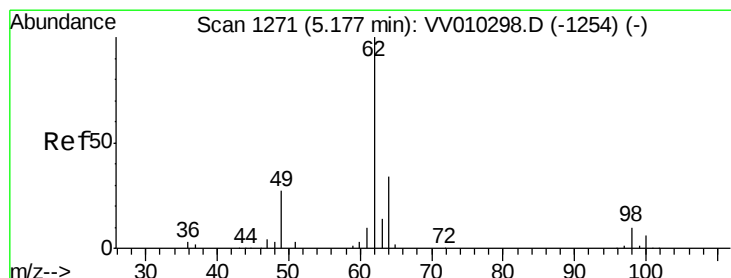
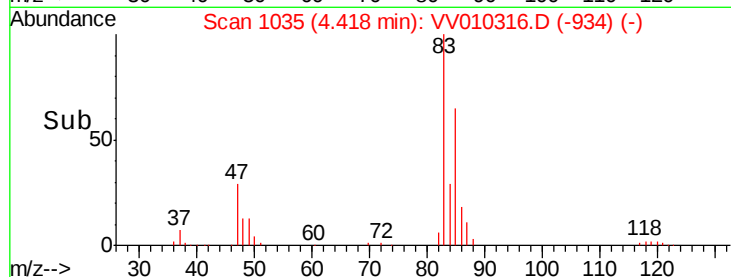
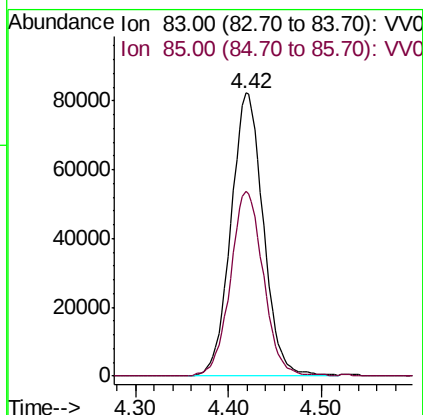
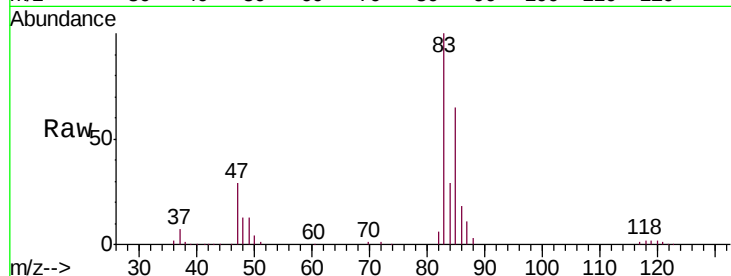




#25
Chloroform
Concen: 28.242 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.01 min
Lab File: VV010316.D
Acq: 13 Apr 2019 04:59

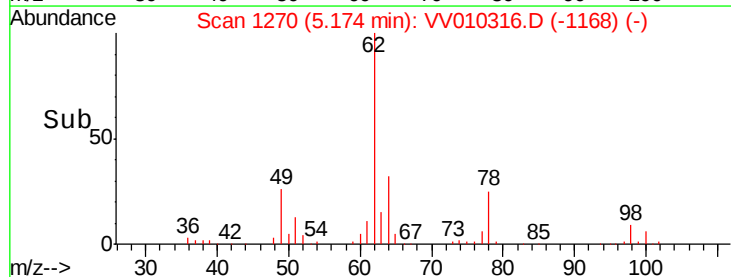
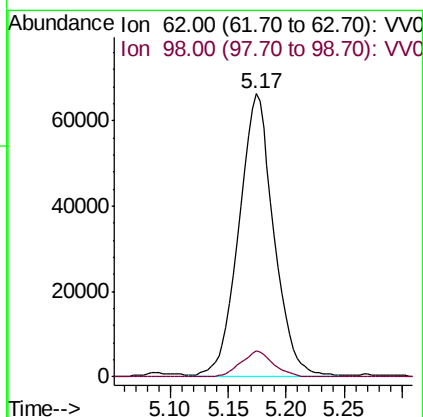
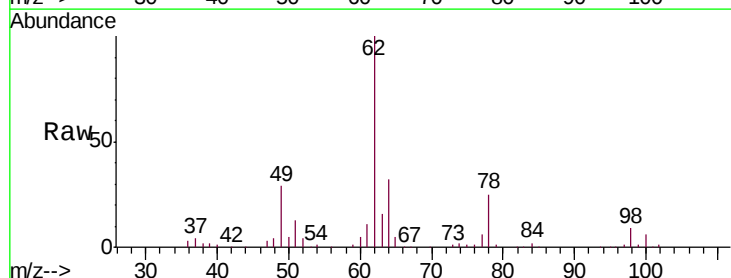
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

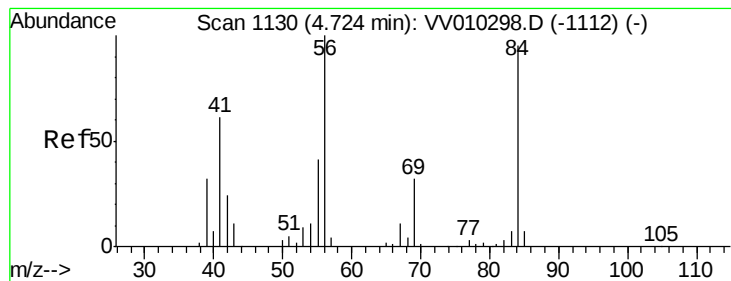
Tgt Ion: 83 Resp: 199369
Ion Ratio Lower Upper
83 100
85 66.2 45.4 84.2



#27
1,2-Dichloroethane
Concen: 30.574 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV010316.D
Acq: 13 Apr 2019 04:59

Tgt Ion: 62 Resp: 138132
Ion Ratio Lower Upper
62 100
98 9.2 7.4 11.2





#30

Cyclohexane

Concen: 22.158 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

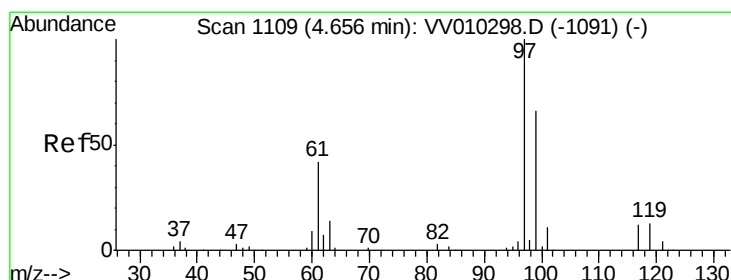
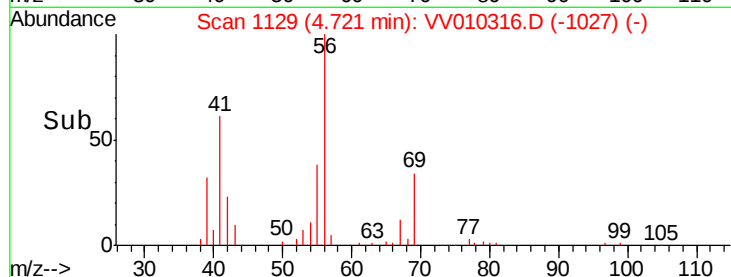
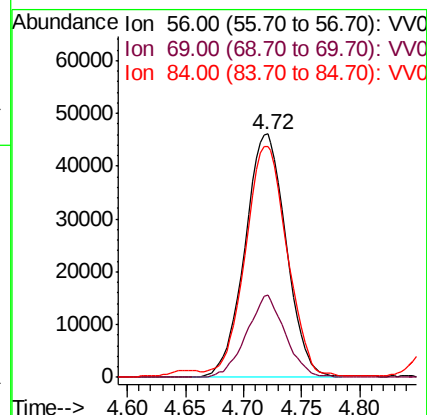
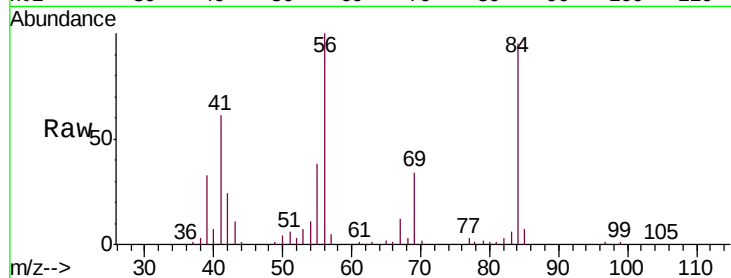
Tgt Ion: 56 Resp: 114138

Ion Ratio Lower Upper

56 100

69 31.5 25.7 38.5

84 96.3 77.5 116.3



#31

1,1,1-Trichloroethane

Concen: 26.651 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

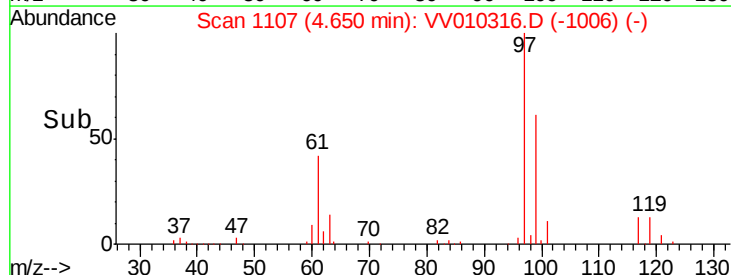
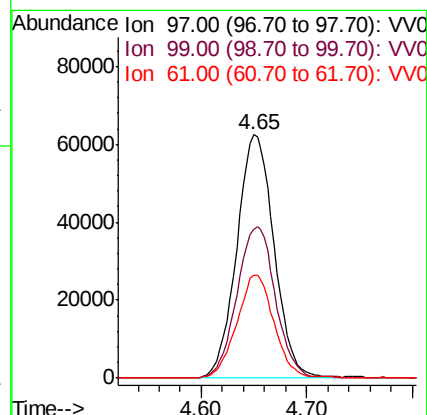
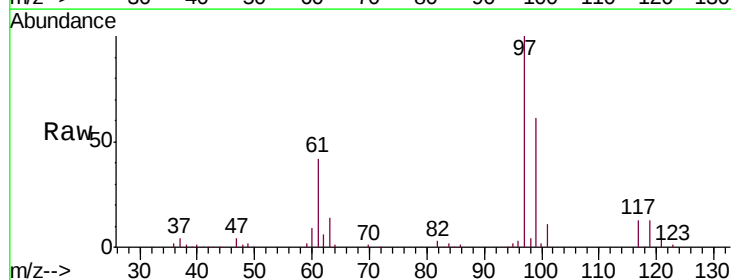
Tgt Ion: 97 Resp: 153341

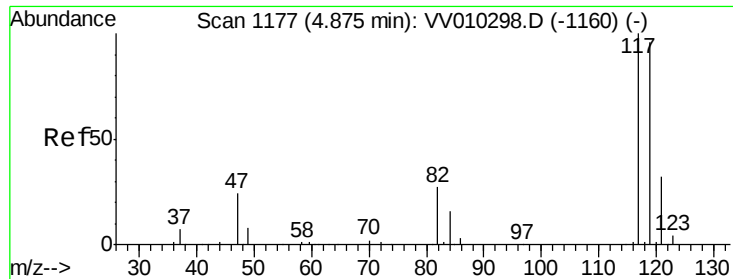
Ion Ratio Lower Upper

97 100

99 64.1 52.2 78.2

61 42.3 33.4 50.0





#32

Carbon tetrachloride

Concen: 25.212 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.01 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

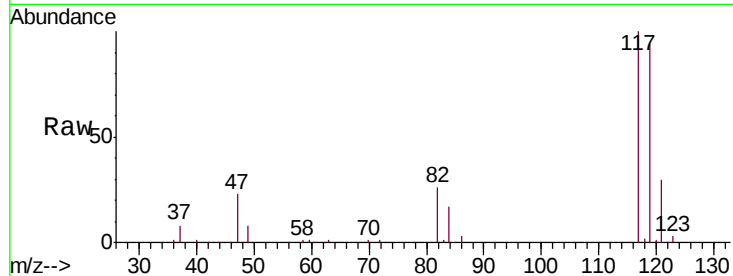
VSTD02569

Tgt Ion:117 Resp: 135175

Ion Ratio Lower Upper

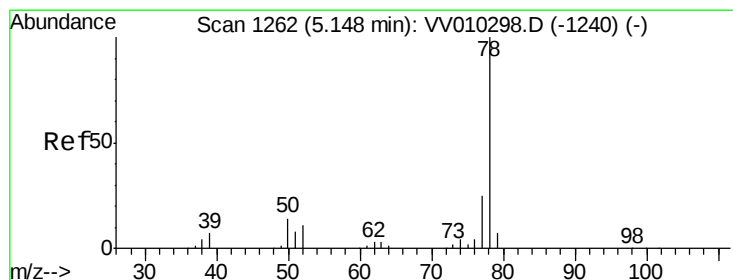
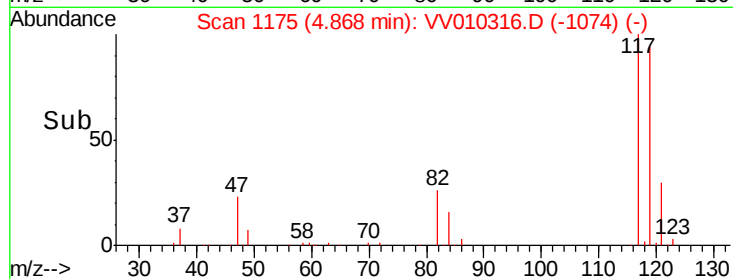
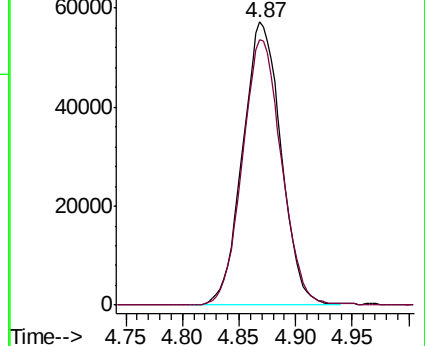
117 100

119 95.2 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.203 ug/L

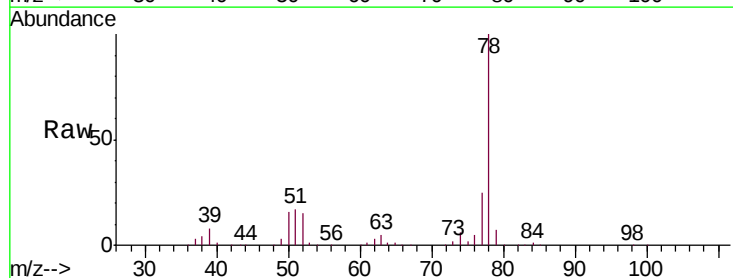
RT: 5.14 min Scan# 1260

Delta R.T. -0.01 min

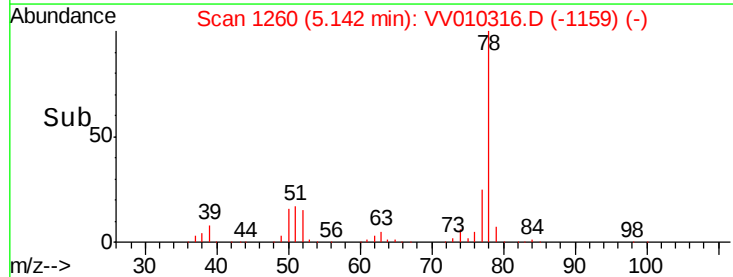
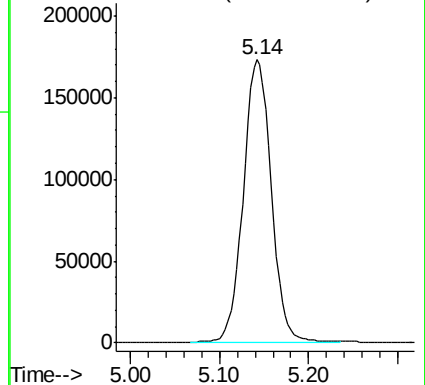
Lab File: VV010316.D

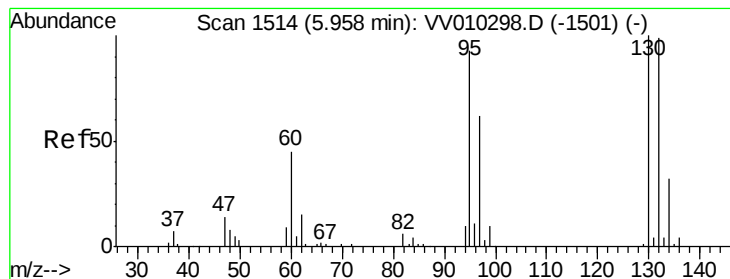
Acq: 13 Apr 2019 04:59

Tgt Ion: 78 Resp: 379288



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 26.198 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

Tgt Ion: 95 Resp: 105543

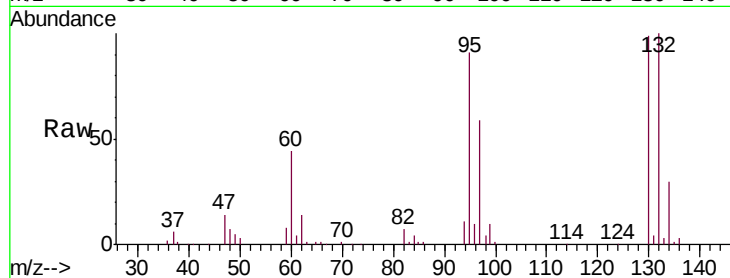
Ion Ratio Lower Upper

95 100

97 64.4 44.3 82.3

132 107.1 71.3 132.3

130 107.7 73.4 136.4

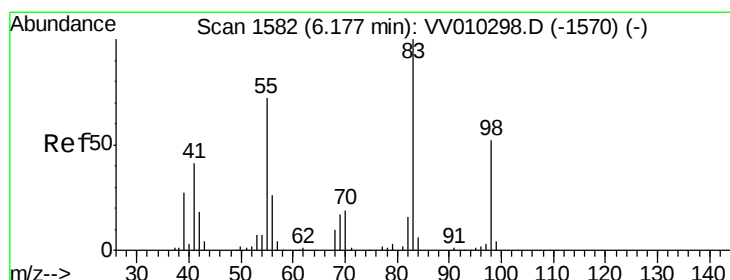
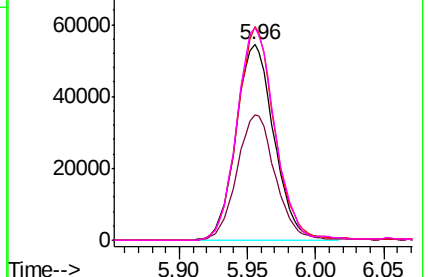
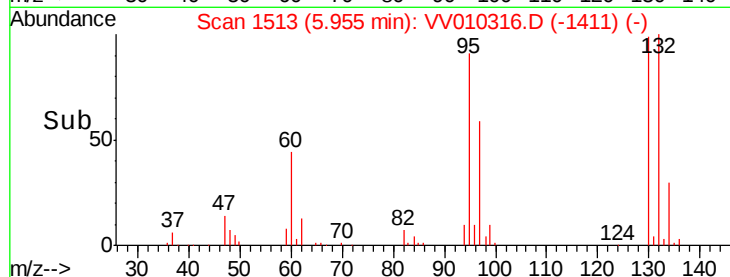


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 23.274 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

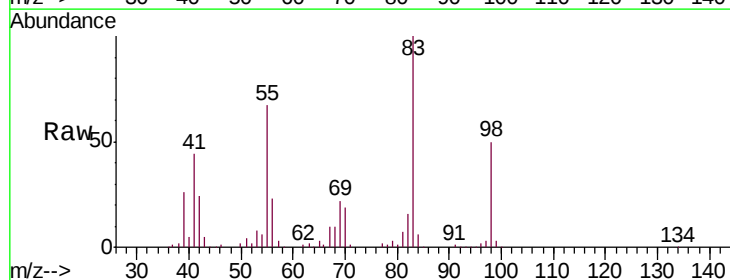
Tgt Ion: 83 Resp: 140109

Ion Ratio Lower Upper

83 100

55 69.6 55.7 83.5

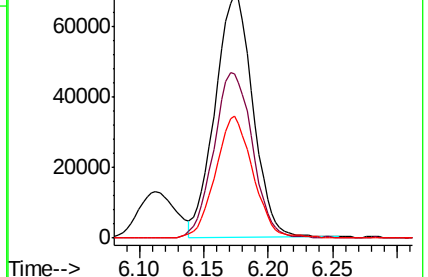
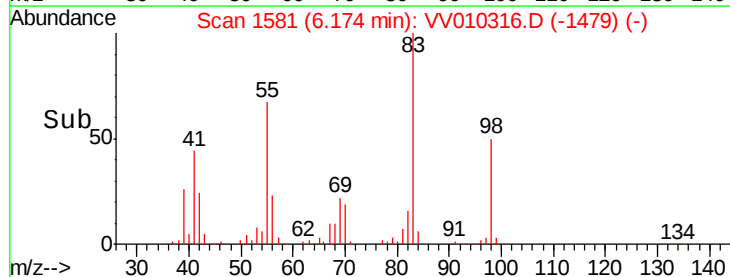
98 49.3 39.4 59.2

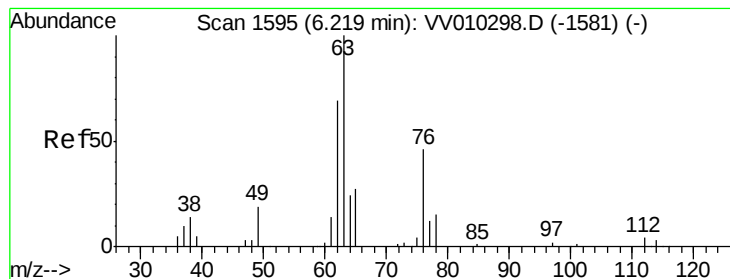


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 29.233 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

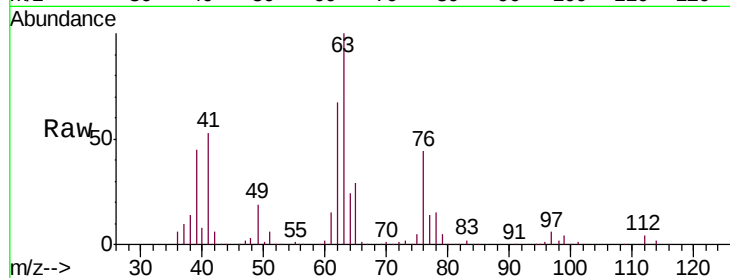
VSTD02569

Tgt Ion: 63 Resp: 99736

Ion Ratio Lower Upper

63 100

112 4.5 4.0 6.0

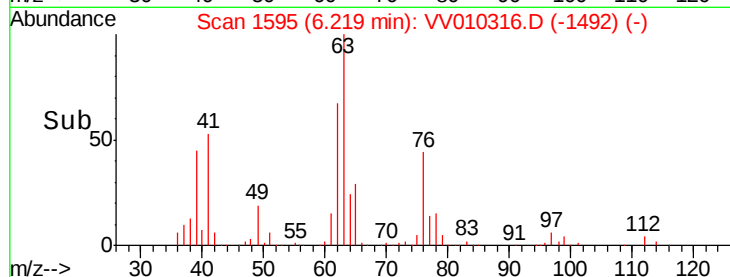


Abundance Ion 63.00 (62.70 to 63.70): VV010298.D (-1581) (-)

Ion 112.00 (111.70 to 112.70): VV010298.D (-1581) (-)

6.22

Time-->

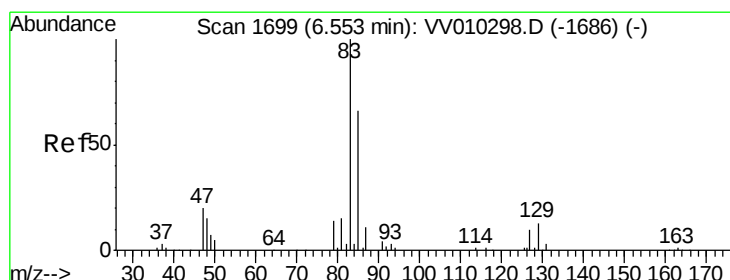


Abundance Ion 63.00 (62.70 to 63.70): VV010316.D (-1492) (-)

Ion 112.00 (111.70 to 112.70): VV010316.D (-1492) (-)

6.22

Time-->



#41

Bromodichloromethane

Concen: 29.724 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

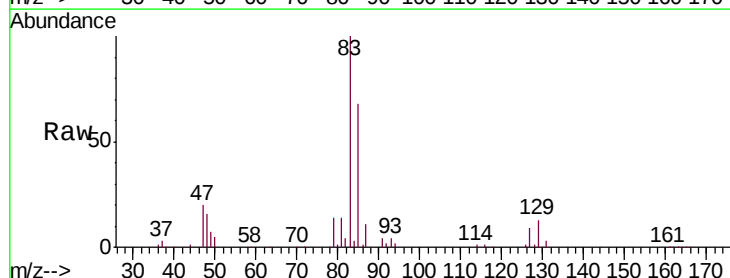
Tgt Ion: 83 Resp: 135125

Ion Ratio Lower Upper

83 100

85 68.2 45.7 84.9

127 9.2 8.2 12.2



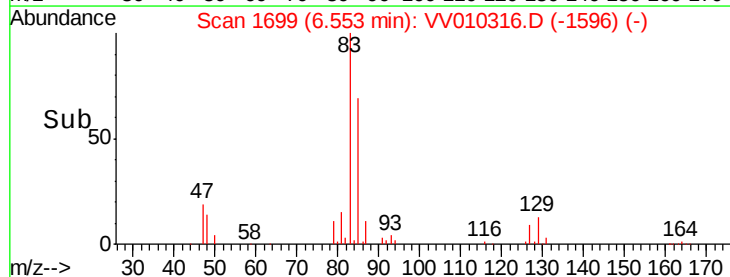
Abundance Ion 83.00 (82.70 to 83.70): VV010298.D (-1686) (-)

Ion 85.00 (84.70 to 85.70): VV010298.D (-1686) (-)

Ion 127.00 (126.70 to 127.70): VV010298.D (-1686) (-)

6.55

Time-->



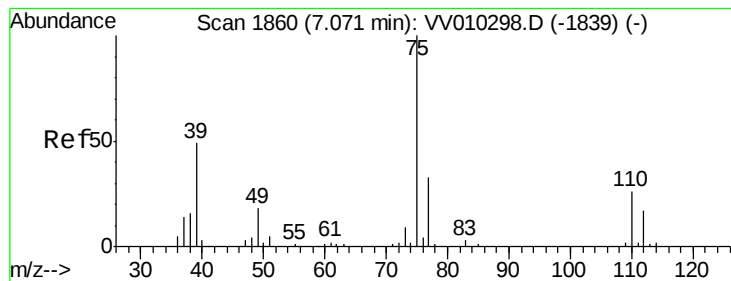
Abundance Ion 83.00 (82.70 to 83.70): VV010316.D (-1596) (-)

Ion 85.00 (84.70 to 85.70): VV010316.D (-1596) (-)

Ion 127.00 (126.70 to 127.70): VV010316.D (-1596) (-)

6.55

Time-->

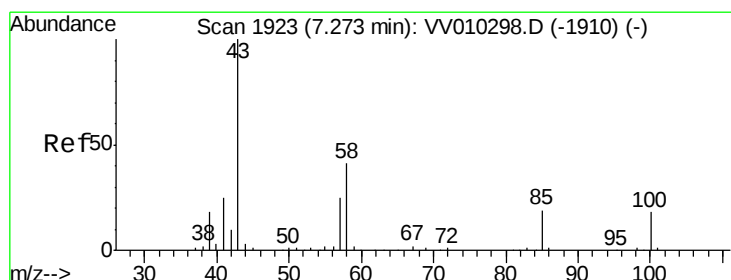
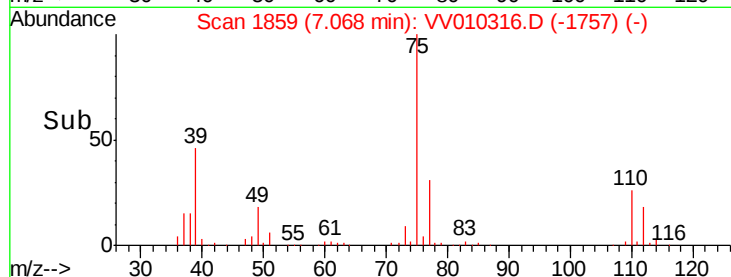
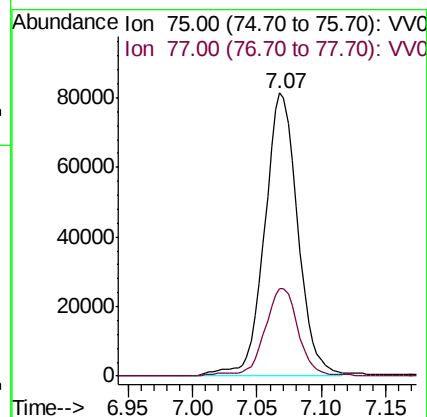
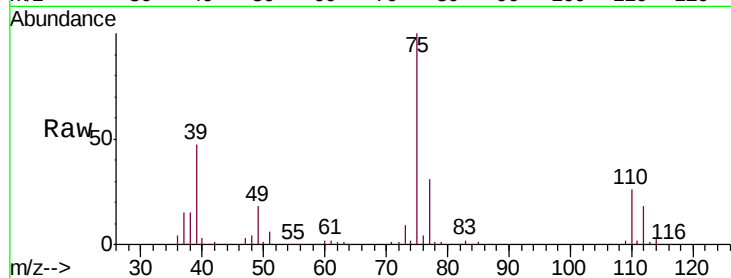


#42

cis-1,3-Dichloropropene
 Concen: 28.340 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

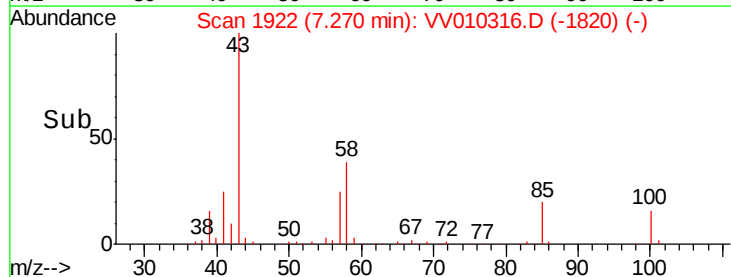
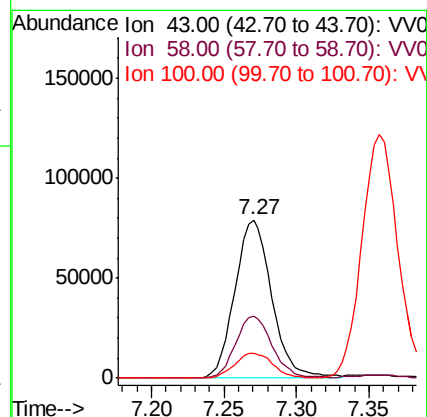
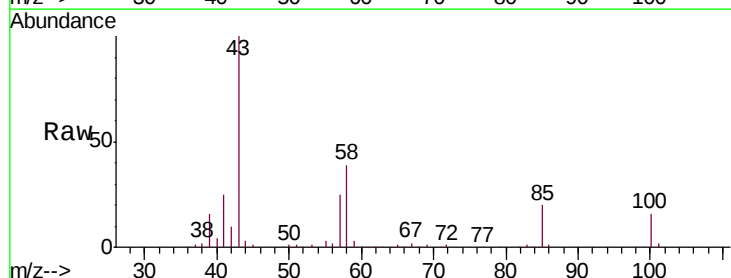
Tgt Ion: 75 Resp: 146524
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.9 40.7

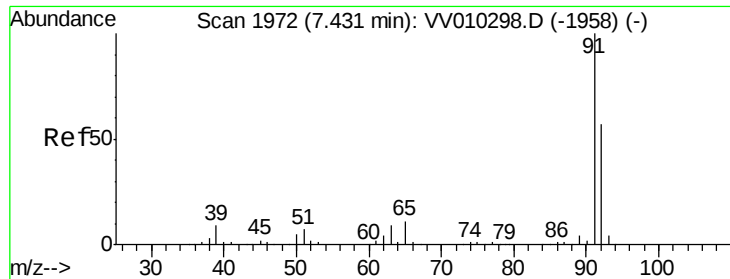


#43

4-Methyl-2-pentanone
 Concen: 63.418 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Tgt Ion: 43 Resp: 140037
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.4 45.6
 100 16.3 13.5 20.3





#44

Toluene

Concen: 26.802 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

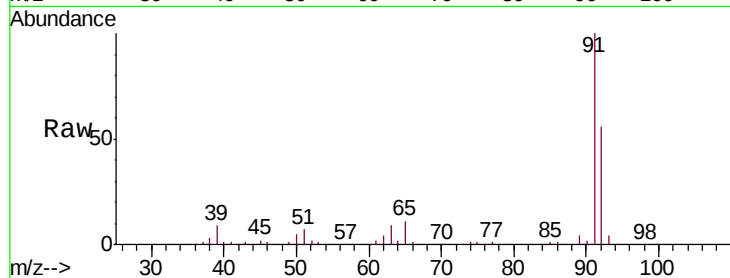
VSTD02569

Tgt Ion: 91 Resp: 420126

Ion Ratio Lower Upper

91 100

92 56.4 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV010298.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV010298.D (-1958) (-)

7.43

250000

200000

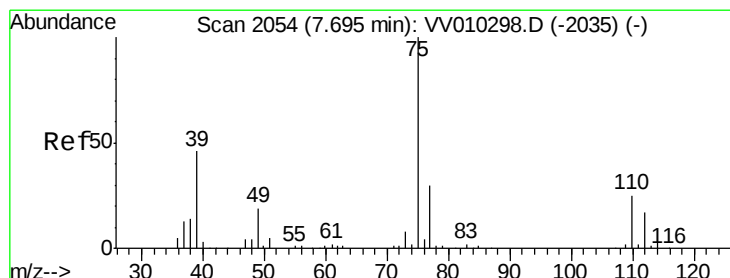
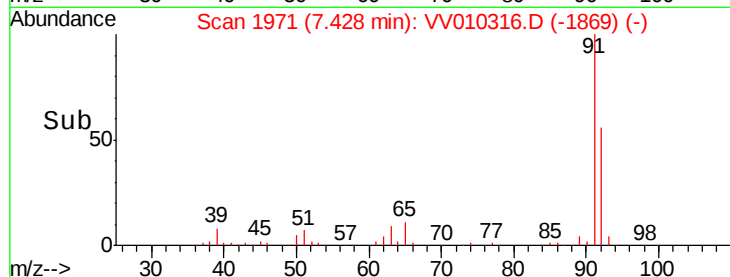
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 28.654 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010316.D

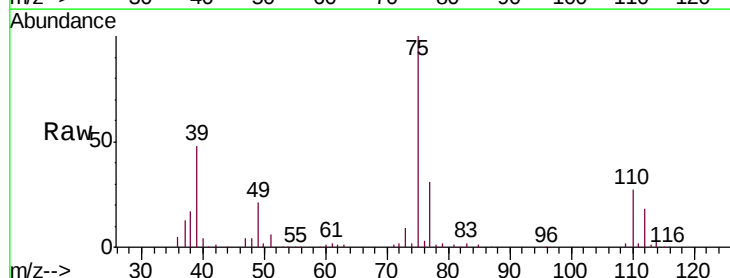
Acq: 13 Apr 2019 04:59

Tgt Ion: 75 Resp: 124335

Ion Ratio Lower Upper

75 100

77 30.9 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VV010298.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV010298.D (-2035) (-)

7.69

80000

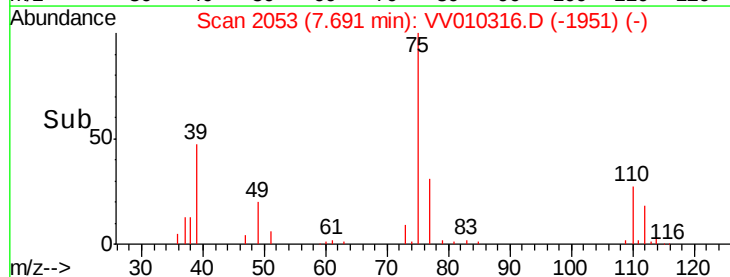
60000

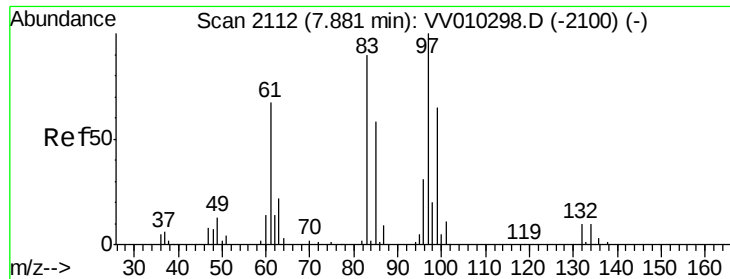
40000

20000

0

Time-->

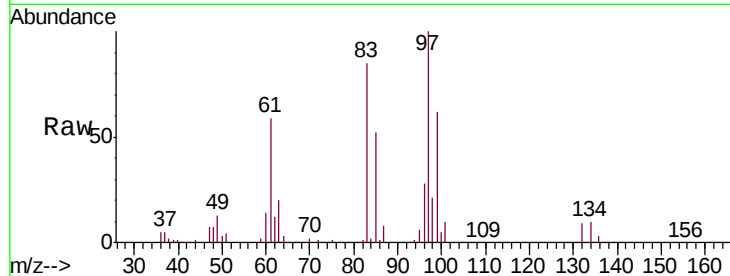




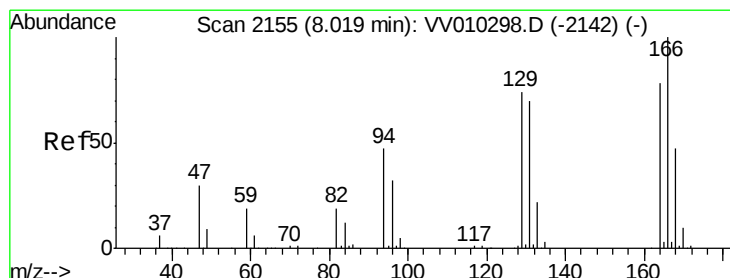
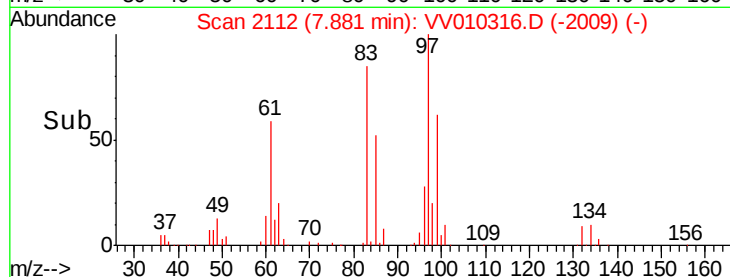
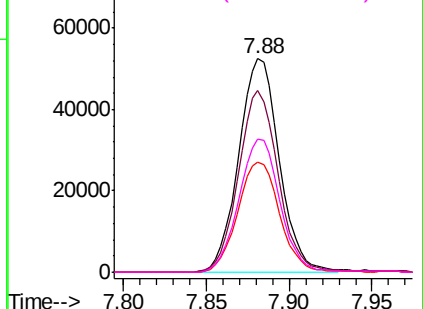
#46
 1,1,2-Trichloroethane
 Concen: 30.828 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion: 97 Resp: 89218
 Ion Ratio Lower Upper
 97 100
 83 84.9 60.5 112.5
 85 51.8 38.8 72.0
 99 62.1 45.6 84.6

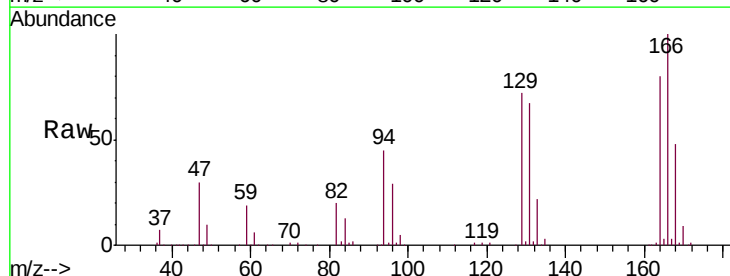


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0

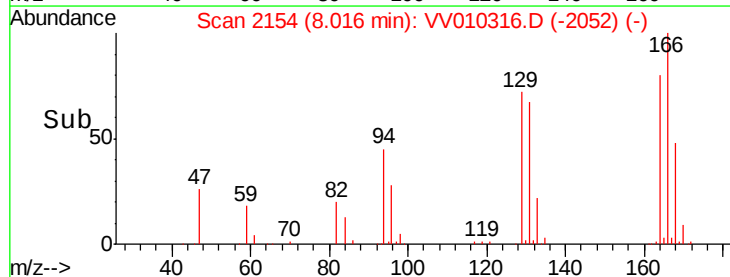
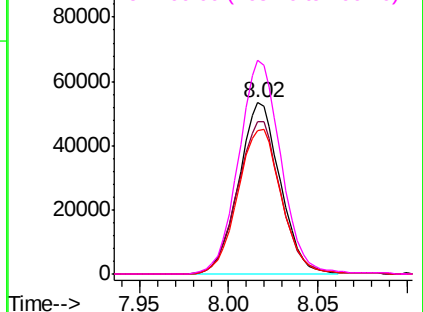


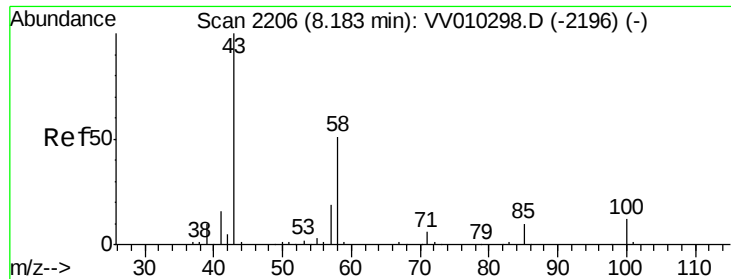
#47
 Tetrachloroethene
 Concen: 24.351 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Tgt Ion: 164 Resp: 86966
 Ion Ratio Lower Upper
 164 100
 129 89.2 62.6 116.2
 131 84.0 60.0 111.4
 166 124.6 87.4 162.2



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

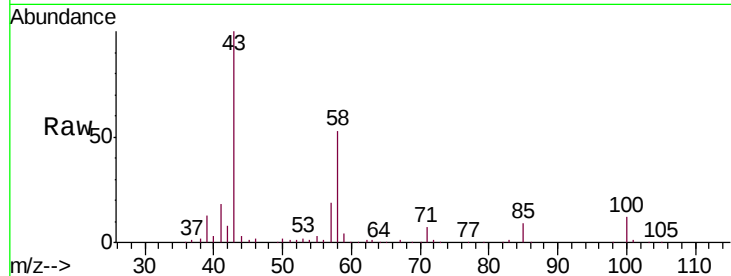




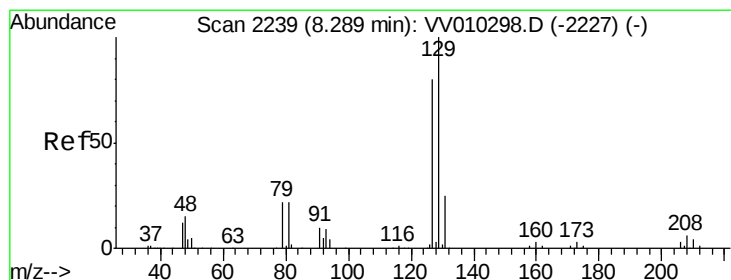
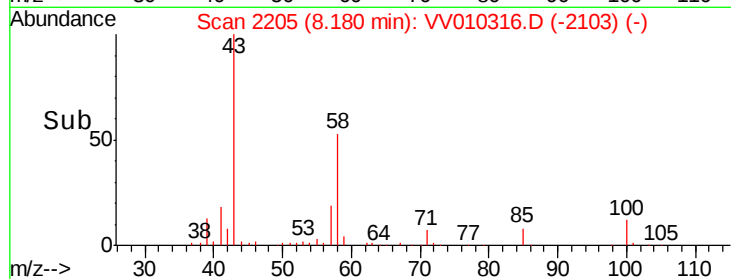
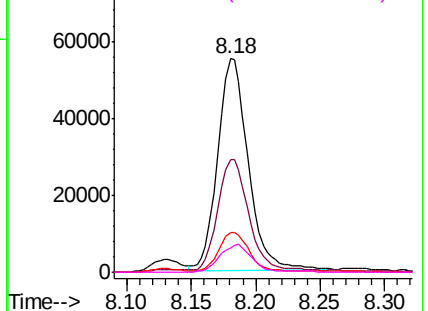
#49
2-Hexanone
Concen: 62.672 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV010316.D
Acq: 13 Apr 2019 04:59

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Tgt Ion: 43 Resp: 90989
Ion Ratio Lower Upper
43 100
58 55.2 42.8 64.2
57 18.1 16.2 24.4
100 13.5 11.1 16.7

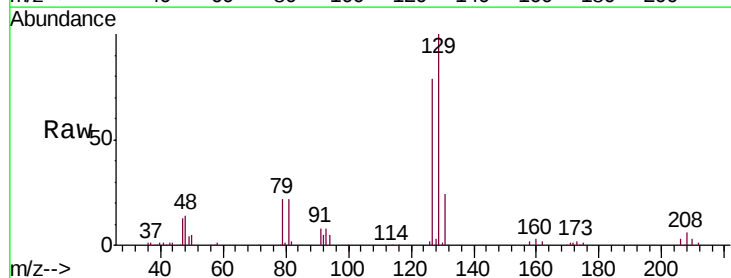


Abundance Ion 43.00 (42.70 to 43.70): VV010316.D (-2103) (-)
Ion 58.00 (57.70 to 58.70): VV010316.D (-2103) (-)
Ion 57.00 (56.70 to 57.70): VV010316.D (-2103) (-)
Ion 100.00 (99.70 to 100.70): VV010316.D (-2103) (-)

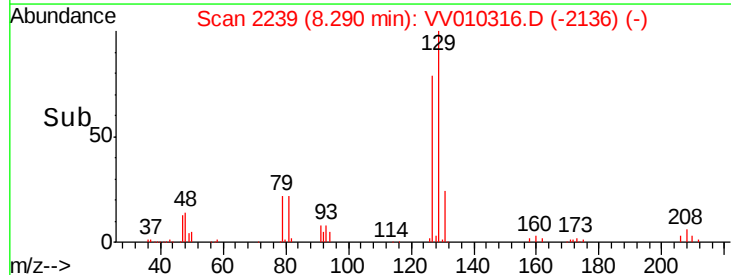
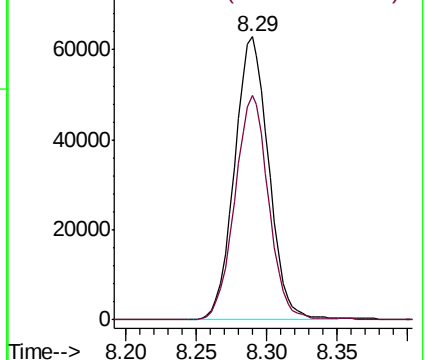


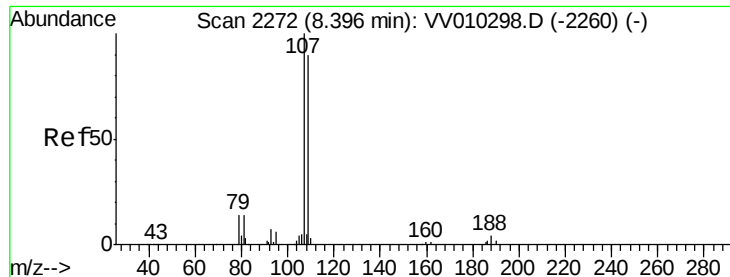
#50
Dibromochloromethane
Concen: 30.229 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010316.D
Acq: 13 Apr 2019 04:59

Tgt Ion: 129 Resp: 107018
Ion Ratio Lower Upper
129 100
127 79.5 52.8 98.2



Abundance Ion 129.00 (128.70 to 129.70): VV010316.D (-2136) (-)
Ion 127.00 (126.70 to 127.70): VV010316.D (-2136) (-)





#51

1,2-Dibromoethane

Concen: 30.164 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

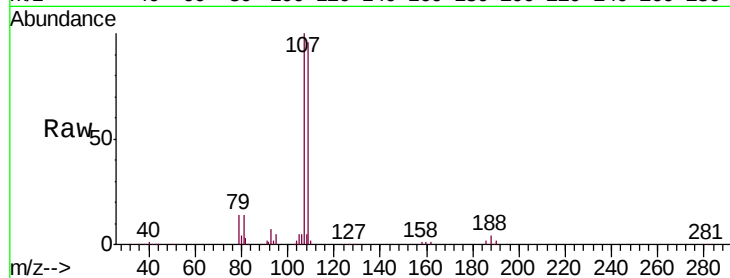
Tgt Ion:107 Resp: 89037

Ion Ratio Lower Upper

107 100

109 96.3 65.2 121.0

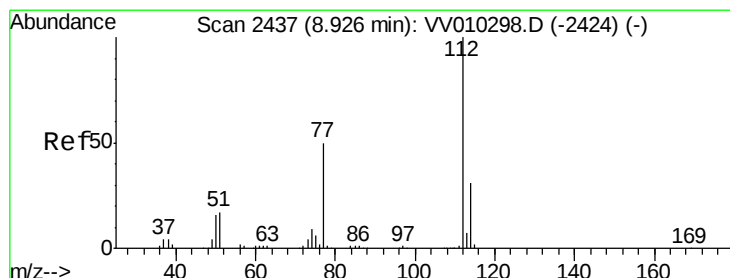
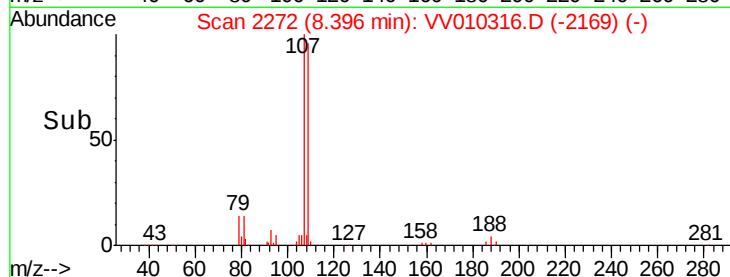
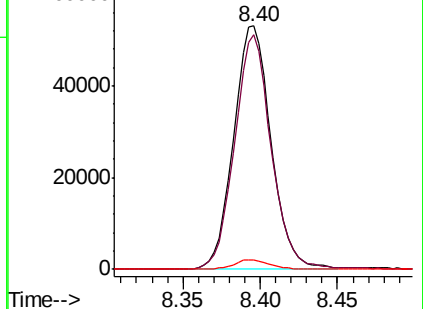
188 3.7 2.7 4.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 26.348 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

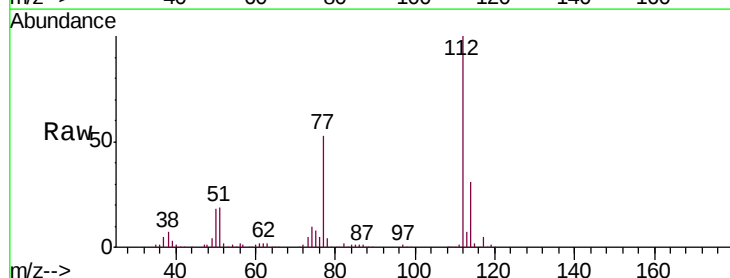
Tgt Ion:112 Resp: 288188

Ion Ratio Lower Upper

112 100

77 53.0 42.2 63.2

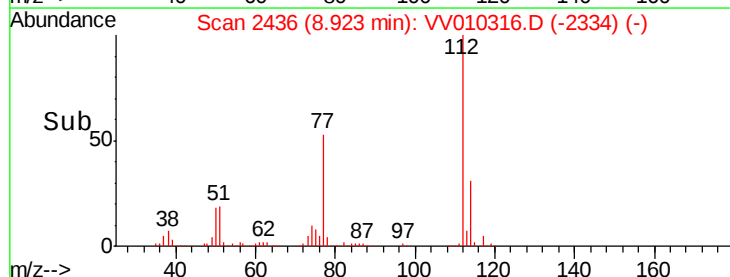
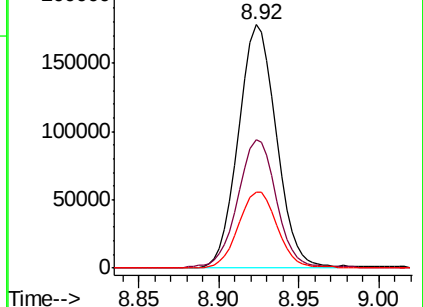
114 31.4 23.4 43.4

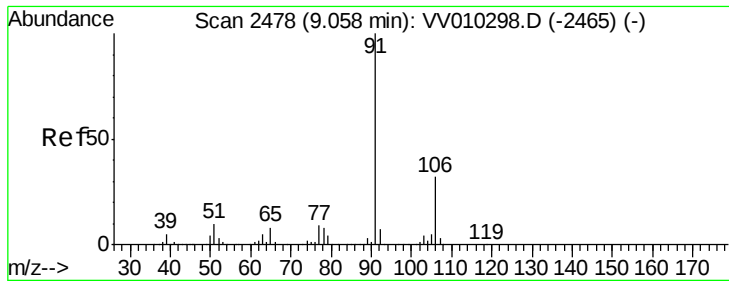


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 25.726 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

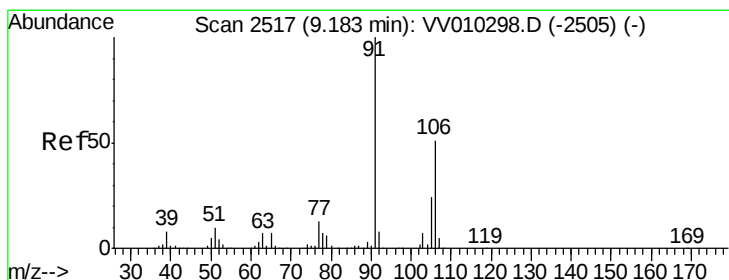
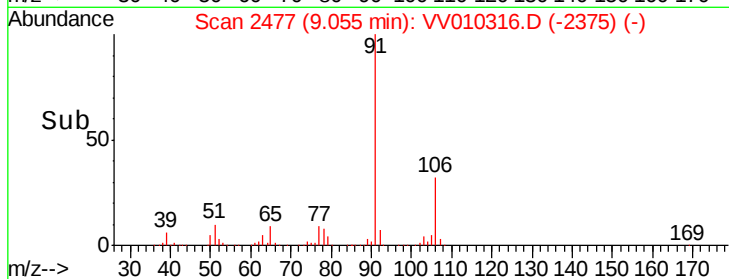
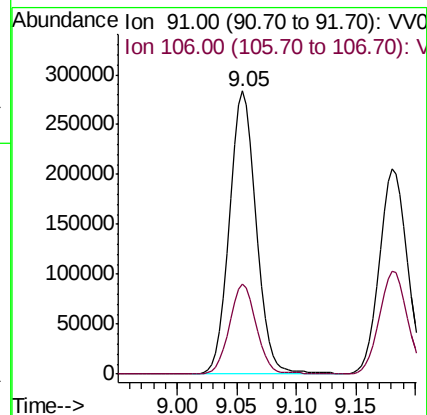
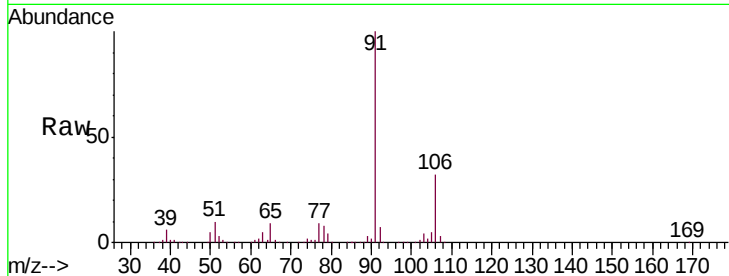
VSTD02569

Tgt Ion: 91 Resp: 444673

Ion Ratio Lower Upper

91 100

106 31.9 22.5 41.9



#54

m,p-Xylene

Concen: 24.917 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010316.D

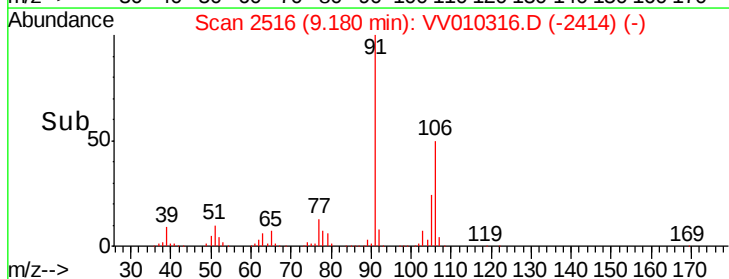
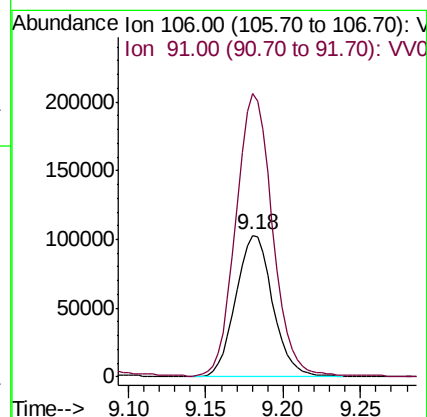
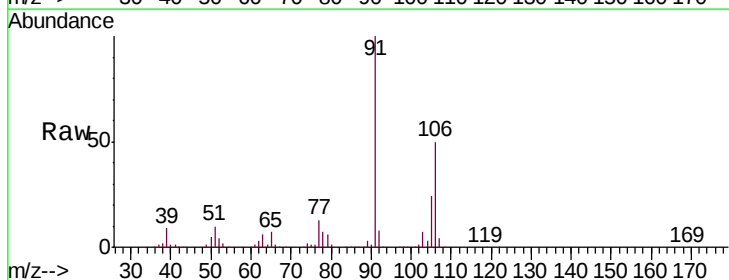
Acq: 13 Apr 2019 04:59

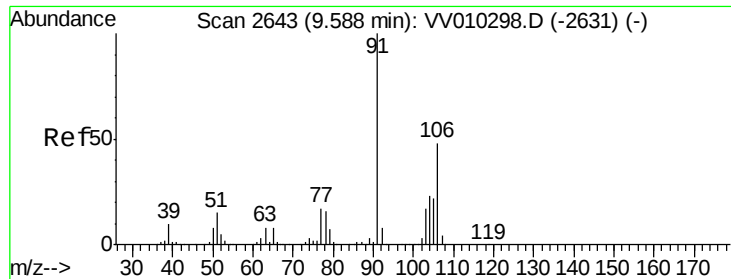
Tgt Ion: 106 Resp: 169904

Ion Ratio Lower Upper

106 100

91 199.5 136.6 253.6





#55

o-xylene

Concen: 25.474 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

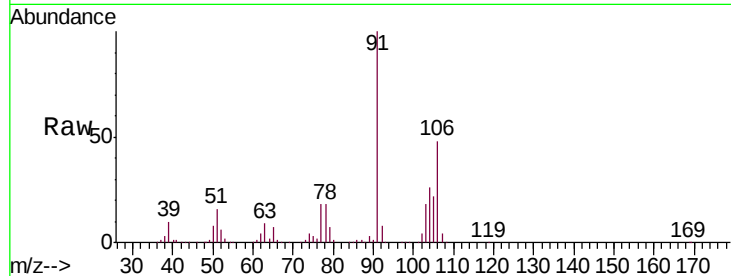
VSTD02569

Tgt Ion:106 Resp: 172976

Ion Ratio Lower Upper

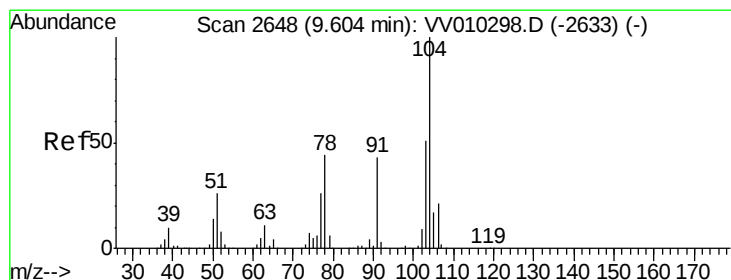
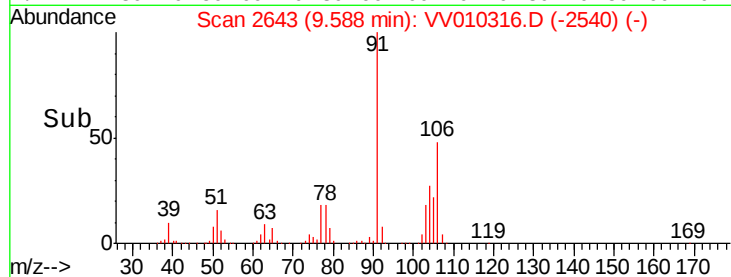
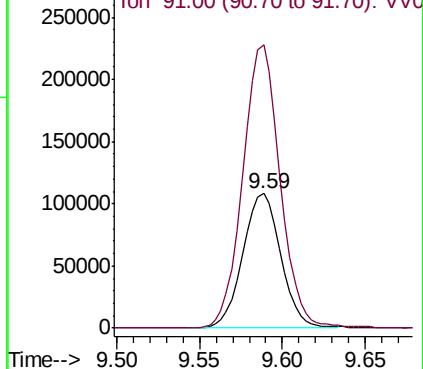
106 100

91 209.9 139.4 259.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 27.136 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010316.D

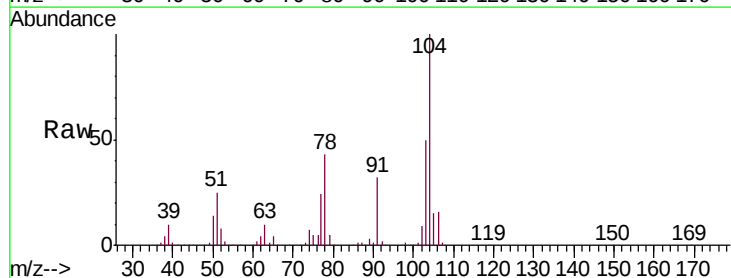
Acq: 13 Apr 2019 04:59

Tgt Ion:104 Resp: 293382

Ion Ratio Lower Upper

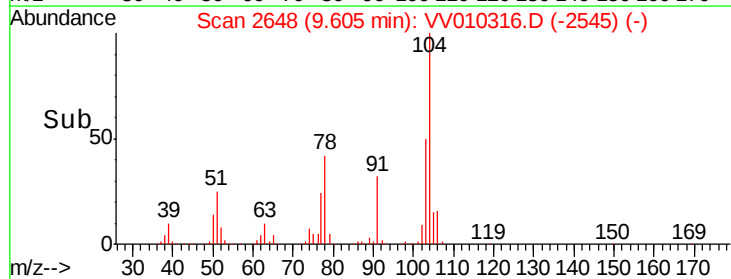
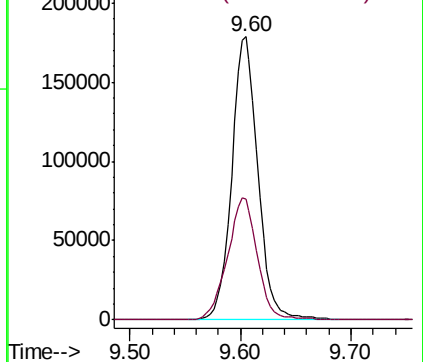
104 100

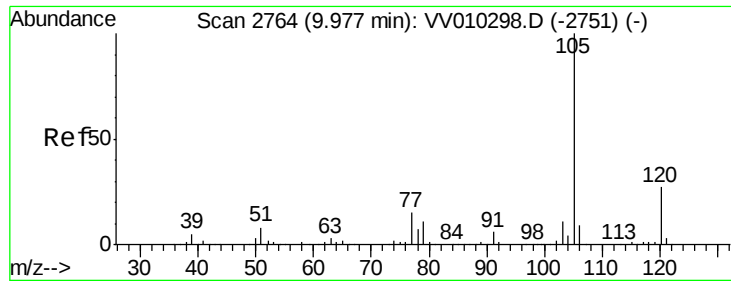
78 42.6 30.3 56.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 24.473 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

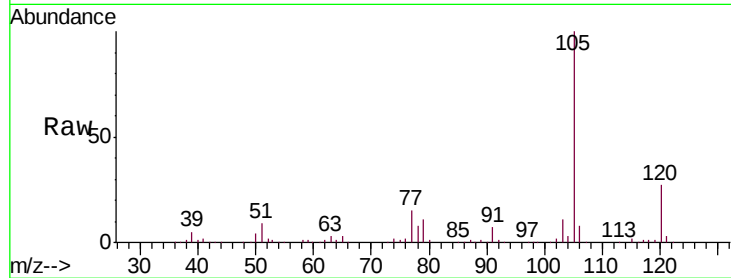
Tgt Ion: 105 Resp: 422356

Ion Ratio Lower Upper

105 100

120 27.5 22.2 33.2

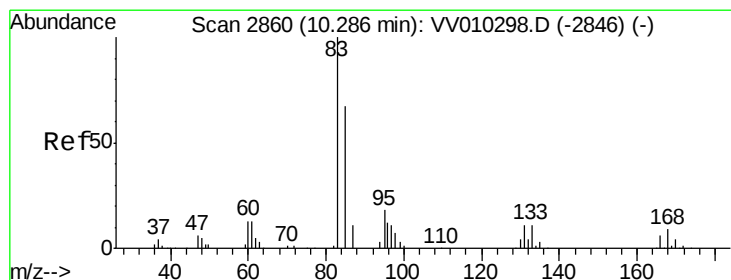
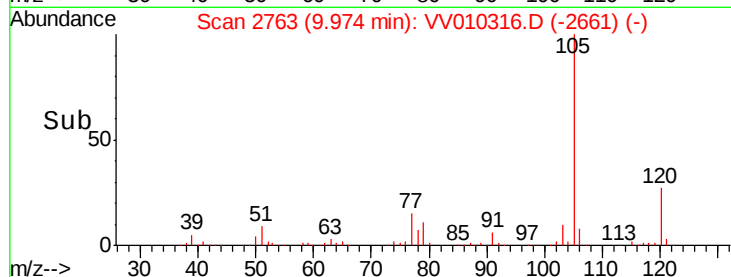
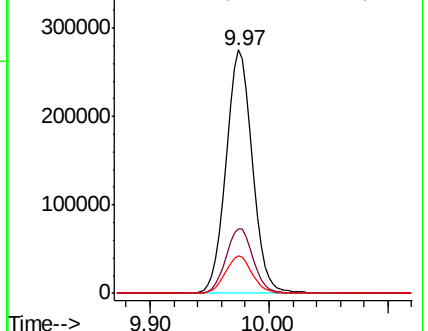
77 15.6 12.2 18.4



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: 28.891 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

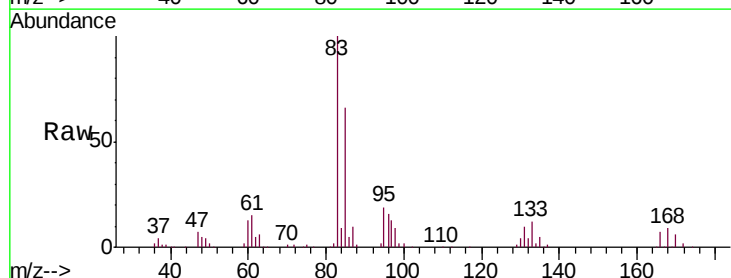
Tgt Ion: 83 Resp: 103343

Ion Ratio Lower Upper

83 100

85 65.6 44.9 83.5

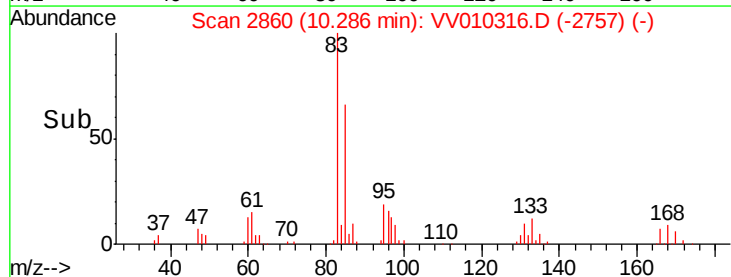
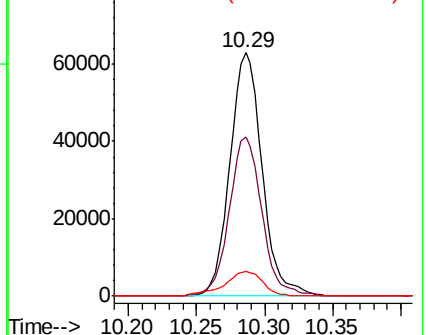
131 9.9 9.2 13.8

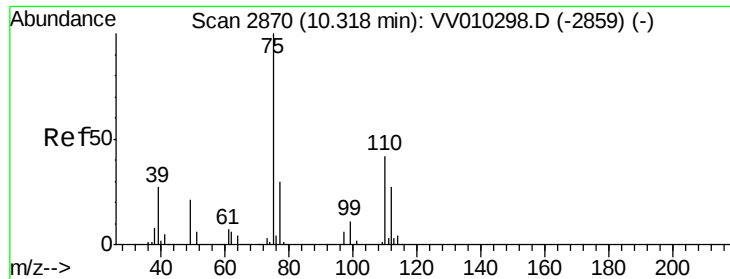


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 28.807 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

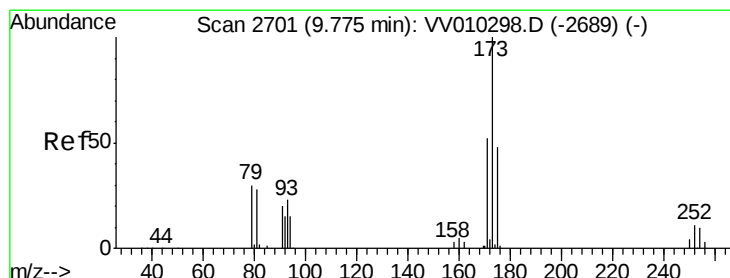
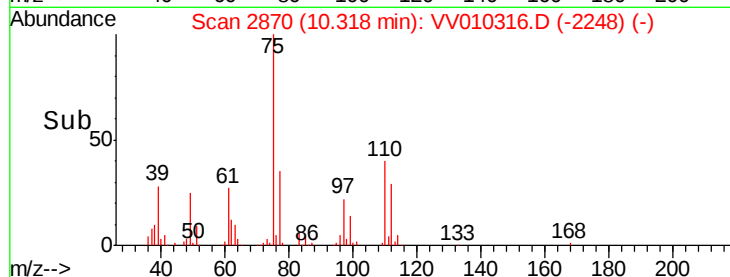
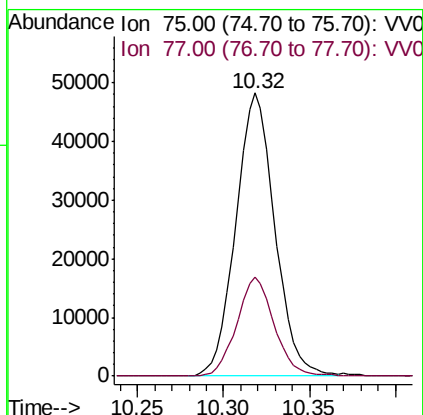
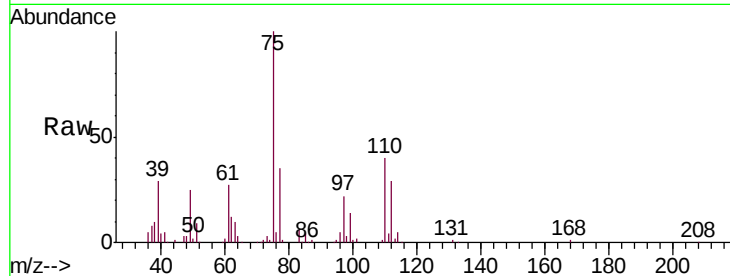
VSTD02569

Tgt Ion: 75 Resp: 75835

Ion Ratio Lower Upper

75 100

77 33.5 26.9 40.3



#62

Bromoform

Concen: 31.123 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

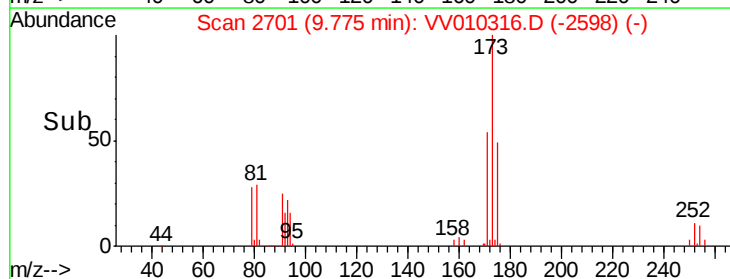
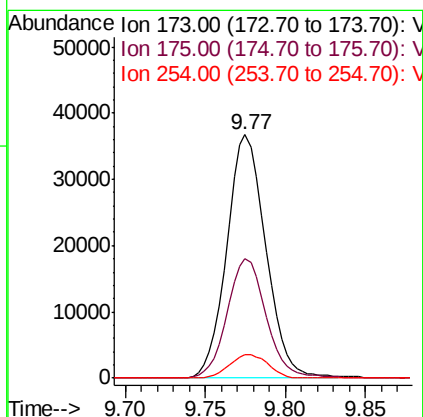
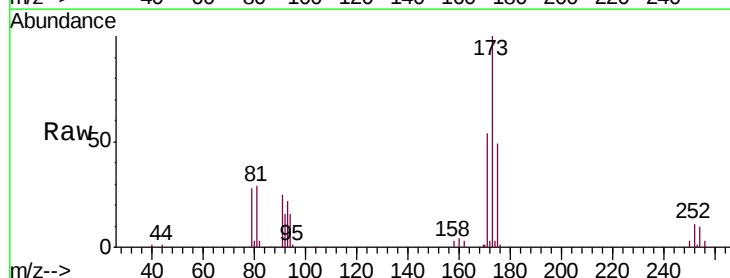
Tgt Ion: 173 Resp: 60920

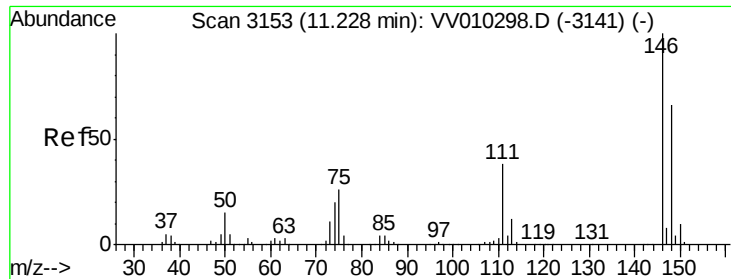
Ion Ratio Lower Upper

173 100

175 49.2 40.3 60.5

254 9.4 8.0 12.0

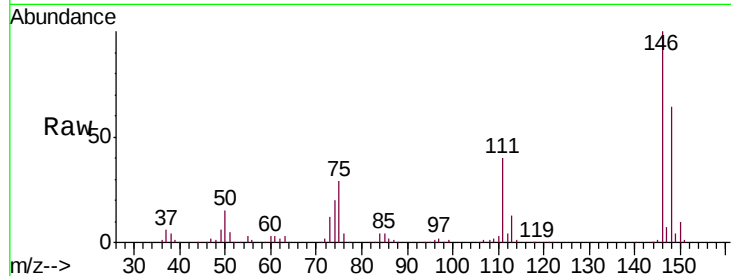




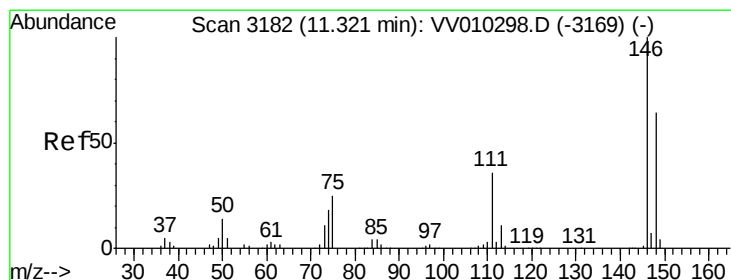
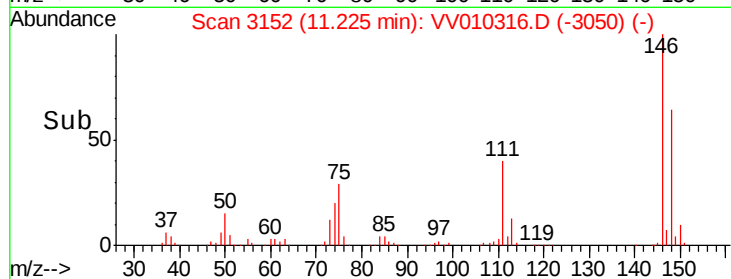
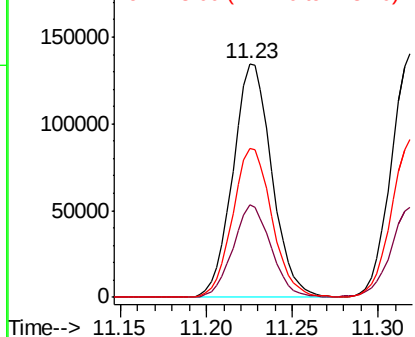
#63
 1,3-Dichlorobenzene
 Concen: 25.350 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion:146 Resp: 211992
 Ion Ratio Lower Upper
 146 100
 111 39.6 26.2 48.8
 148 63.8 43.2 80.2

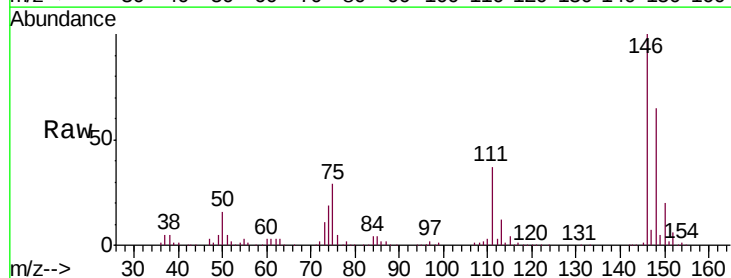


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

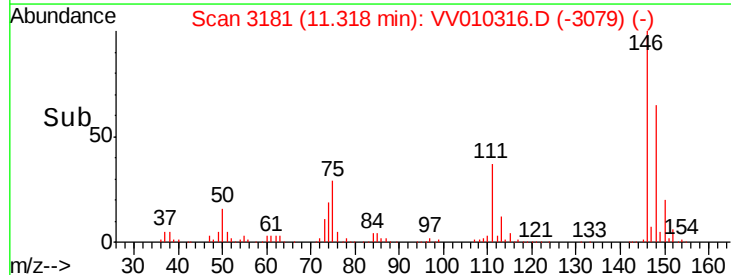
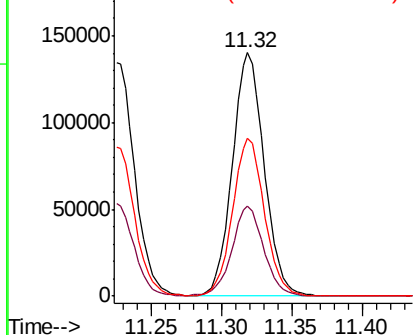


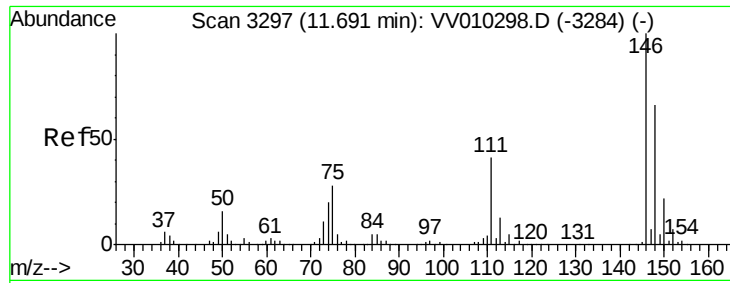
#64
 1,4-Dichlorobenzene
 Concen: 26.094 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Tgt Ion:146 Resp: 222053
 Ion Ratio Lower Upper
 146 100
 111 36.8 26.5 49.3
 148 64.8 45.3 84.1



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

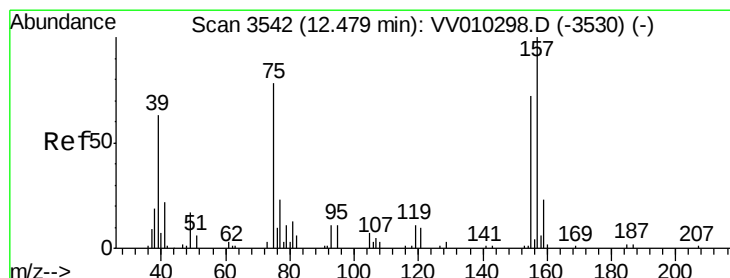
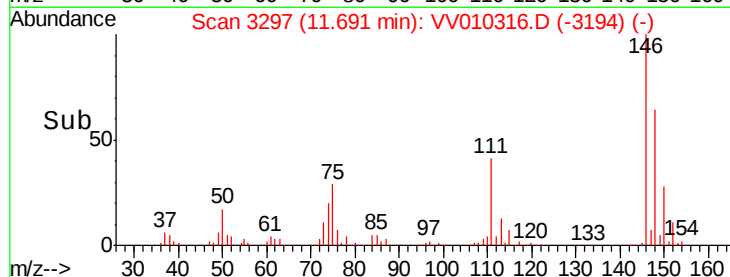
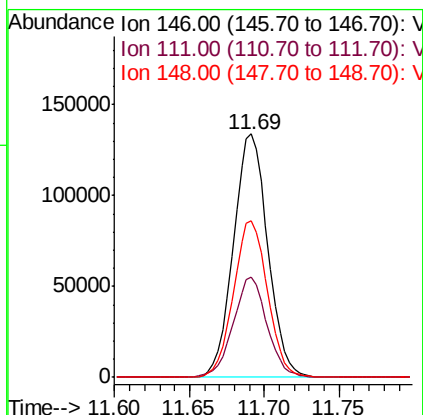
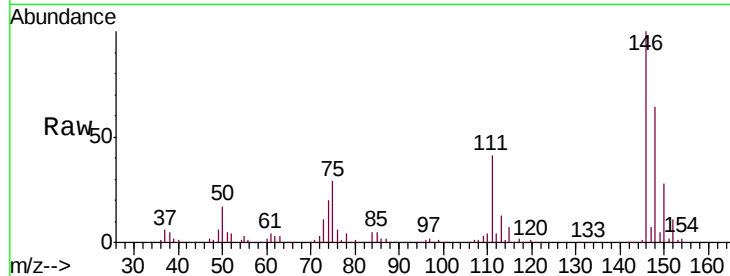




#65
 1,2-Dichlorobenzene
 Concen: 26.805 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

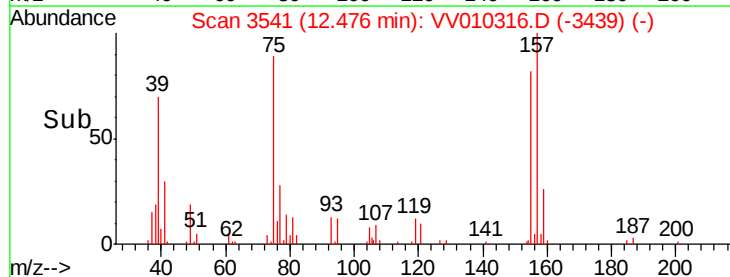
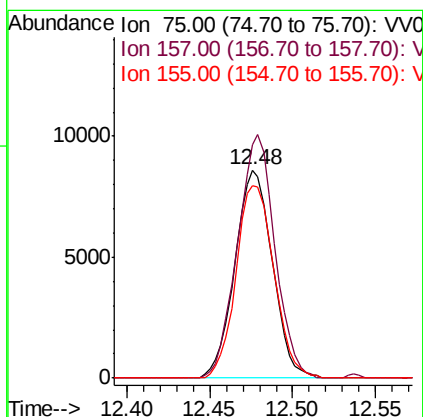
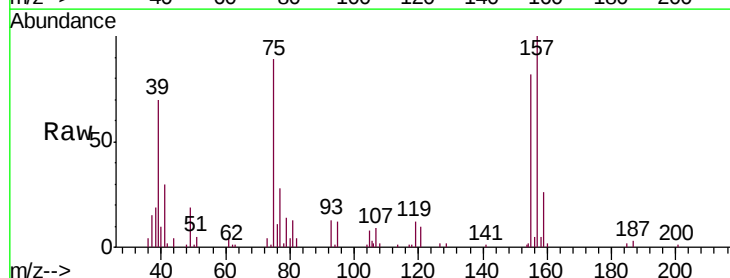
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

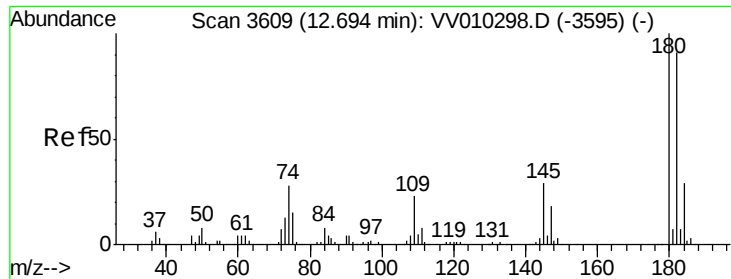
Tgt Ion: 146 Resp: 213974
 Ion Ratio Lower Upper
 146 100
 111 41.4 32.5 48.7
 148 64.2 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 30.005 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Tgt Ion: 75 Resp: 13550
 Ion Ratio Lower Upper
 75 100
 157 111.7 97.4 146.2
 155 92.2 72.5 108.7

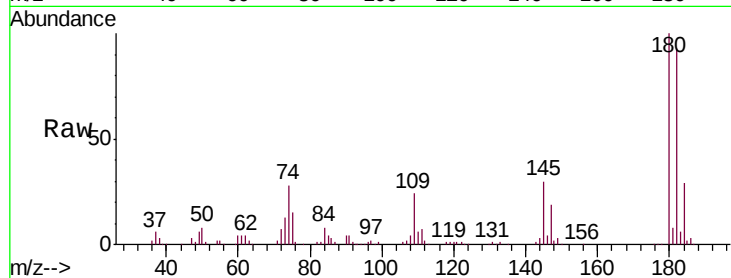




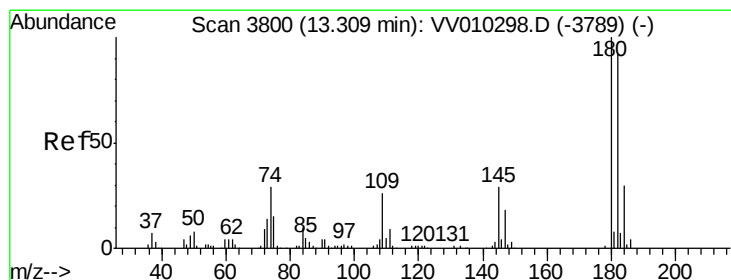
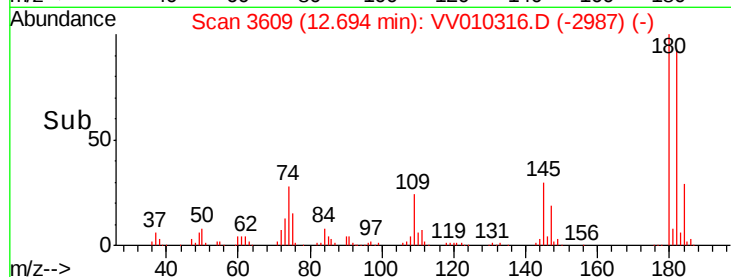
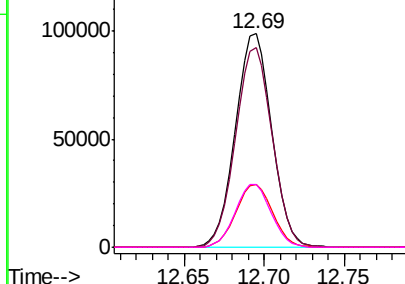
#67
 1,3,5-Trichlorobenzene
 Concen: 24.573 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion:180 Resp: 152273
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.5 113.3
 184 29.7 23.8 35.8
 145 29.2 22.9 34.3

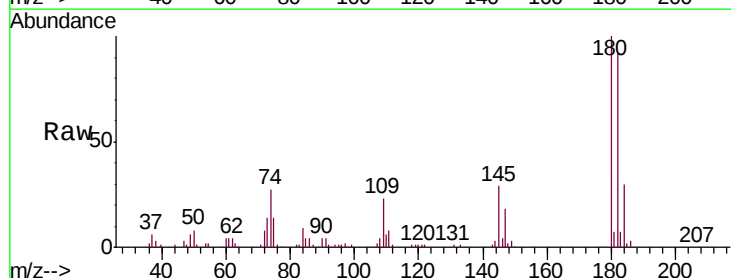


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

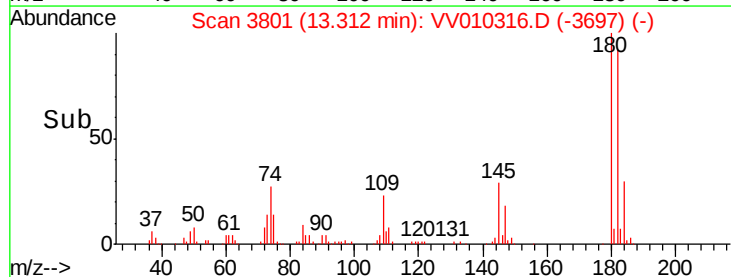
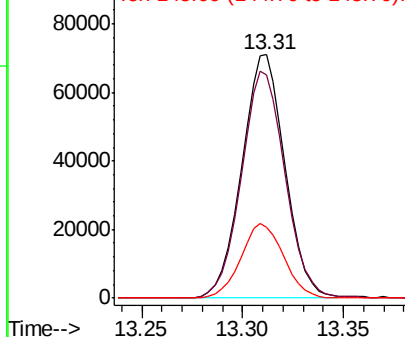


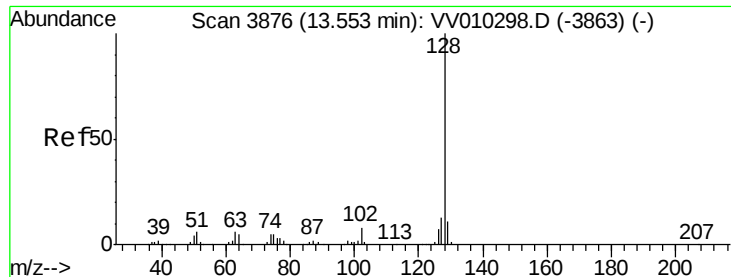
#68
 1,2,4-trichlorobenzene
 Concen: 25.102 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010316.D
 Acq: 13 Apr 2019 04:59

Tgt Ion:180 Resp: 106585
 Ion Ratio Lower Upper
 180 100
 182 94.1 78.8 118.2
 145 30.2 24.5 36.7



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: 28.783 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

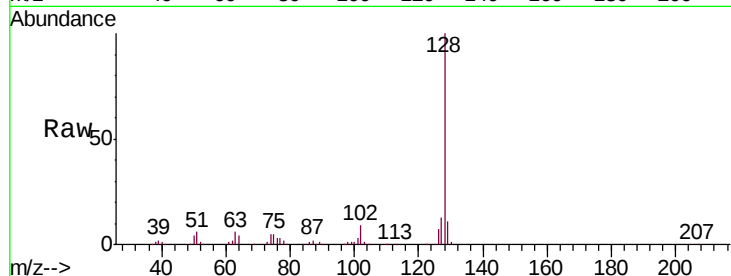
Tgt Ion:128 Resp: 166080

Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.4

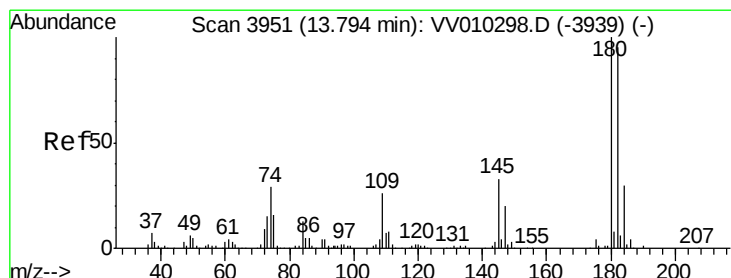
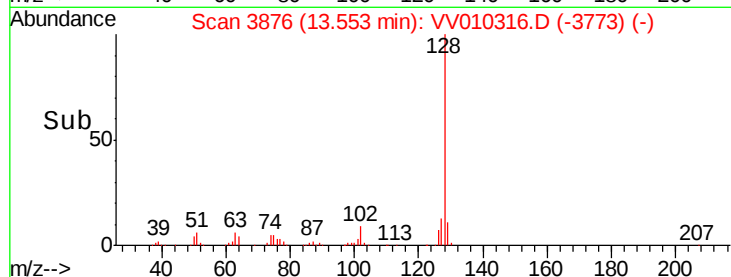
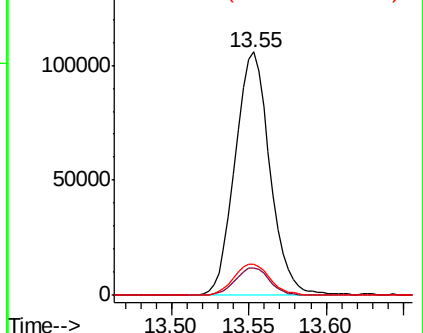
127 13.6 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.577 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010316.D

Acq: 13 Apr 2019 04:59

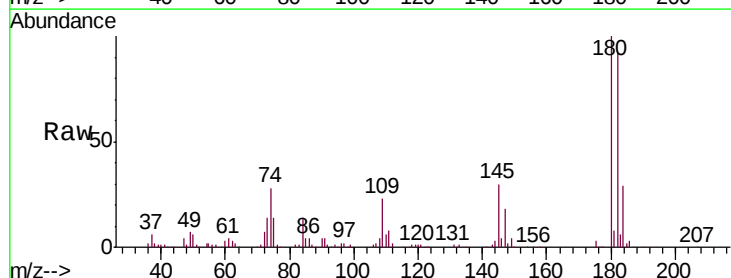
Tgt Ion:180 Resp: 108593

Ion Ratio Lower Upper

180 100

182 94.6 76.2 114.4

145 31.7 24.9 37.3



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

