

Data File : VV010804.D
Acq On : 10 May 2019 09:19
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02593

Quant Time: May 10 22:55:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis
QLast Update : Fri May 10 07:54:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	92592	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	94962	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	45541	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	38477	26.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	107.00%
7) Chloroethane-d5	1.57	69	33045	27.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.68%
10) 1,1-Dichloroethene-d2	2.13	63	84259	27.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	108.04%
20) 2-Butanone-d5	3.93	46	20997	48.65	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.30%
24) Chloroform-d	4.40	84	71856	28.46	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	113.84%
26) 1,2-Dichloroethane-d4	5.08	65	43605	27.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	110.64%
29) Benzene-d6	5.10	84	142788	28.57	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	114.28%
33) 1,2-Dichloropropane-d6	6.12	67	44868	28.17	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	112.68%
37) Toluene-d8	7.36	98	134987	28.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.80%
38) trans-1,3-Dichloropropene-	7.66	79	18874	25.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.96%
39) 2-Hexanone-d5	8.13	63	15112	45.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.68%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	37923	25.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.36%
61) 1,2-Dichlorobenzene-d4	11.67	152	49323	27.96	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	111.84%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	30319	23.643 ug/L	98
3) Chloromethane	1.25	50	34239	21.948 ug/L	98
5) Vinyl chloride	1.32	62	42357	23.384 ug/L	97
6) Bromomethane	1.51	94	23488	26.738 ug/L	100
8) Chloroethane	1.59	64	27292	24.193 ug/L	100
9) Trichlorofluoromethane	1.76	101	67438	24.732 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	40464	25.993 ug/L	99
12) 1,1-Dichloroethene	2.14	96	37334	25.612 ug/L	96
13) Acetone	2.19	43	25067	37.512 ug/L	99
14) Carbon disulfide	2.31	76	85530	23.877 ug/L	99
15) Methyl Acetate	2.46	43	16001	20.044 ug/L	96
16) Methylene chloride	2.53	84	33980	23.735 ug/L	95
17) Methyl tert-butyl Ether	2.80	73	82013	22.469 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	32626	24.761 ug/L	96
19) 1,1-Dichloroethane	3.23	63	64723	25.444 ug/L	99
21) 2-Butanone	4.01	43	23737	37.480 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	35912	23.859 ug/L	96

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QLast Update : Fri May 10 07:54:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	15850	23.426	ug/L	95
25) Chloroform	4.42	83	72197	25.763	ug/L	98
27) 1,2-Dichloroethane	5.18	62	48961	23.903	ug/L	98
30) Cyclohexane	4.72	56	57657	24.209	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	58661	24.775	ug/L	99
32) Carbon tetrachloride	4.87	117	52146	25.283	ug/L	100
34) Benzene	5.14	78	139452	25.016	ug/L	100
35) Trichloroethene	5.96	95	38473	24.638	ug/L	98
36) Methylcyclohexane	6.17	83	60540	24.190	ug/L	99
40) 1,2-Dichloropropane	6.22	63	37657	25.393	ug/L	99
41) Bromodichloromethane	6.55	83	49384	24.236	ug/L	97
42) cis-1,3-Dichloropropene	7.07	75	55458	23.644	ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	47400	37.972	ug/L	98
44) Toluene	7.43	91	158588	25.048	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	46614	23.601	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	27820	22.836	ug/L	95
47) Tetrachloroethene	8.02	164	26759	23.662	ug/L	88
49) 2-Hexanone	8.18	43	35766	37.686	ug/L	99
50) Dibromochloromethane	8.29	129	32872	23.464	ug/L	94
51) 1,2-Dibromoethane	8.40	107	25896	22.008	ug/L	95
52) Chlorobenzene	8.92	112	101330	24.497	ug/L	98
53) Ethylbenzene	9.05	91	183359	24.977	ug/L	99
54) m,p-Xylene	9.18	106	68649	25.029	ug/L	98
55) o-xylene	9.59	106	67726	24.895	ug/L	94
56) Styrene	9.60	104	114341	24.850	ug/L	99
57) Isopropylbenzene	9.97	105	182593	25.156	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	34526	21.631	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	26321	21.129	ug/L	98
62) Bromoform	9.77	173	15757	20.319	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	77809	24.545	ug/L	96
64) 1,4-Dichlorobenzene	11.32	146	78207	24.152	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	73509	23.875	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	5296	18.537	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	55593	24.345	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	42406	24.001	ug/L	97
69) Naphthalene	13.55	128	75490	19.961	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	39429	23.790	ug/L	98

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

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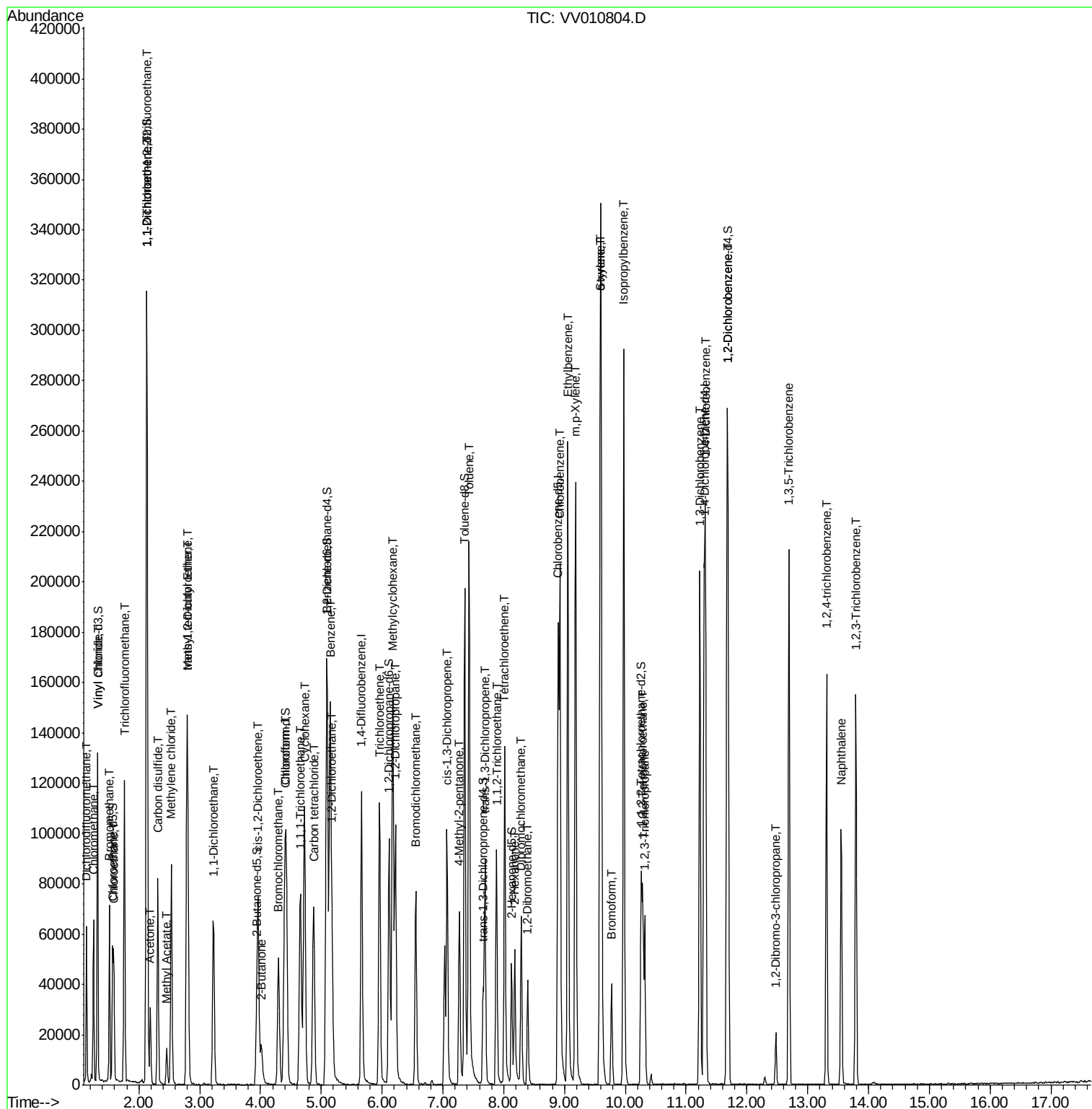
Quant Time: May 10 22:55:12 2019

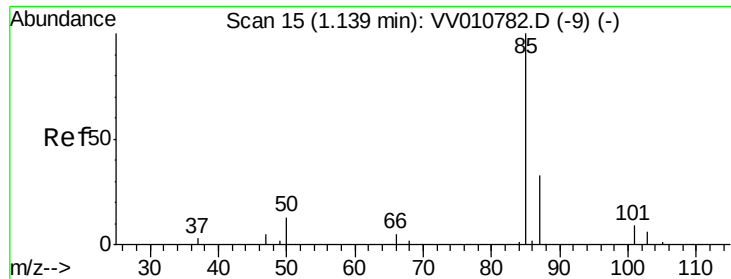
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM050719S.M

Quant Title : VOC Analysis

QLast Update : Fri May 10 07:54:34 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.643 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

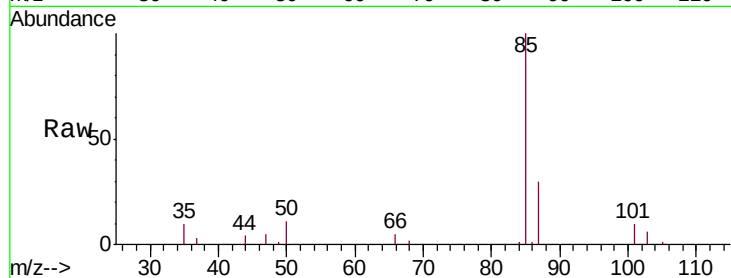
VSTD02593

Tgt Ion: 85 Resp: 30319

Ion Ratio Lower Upper

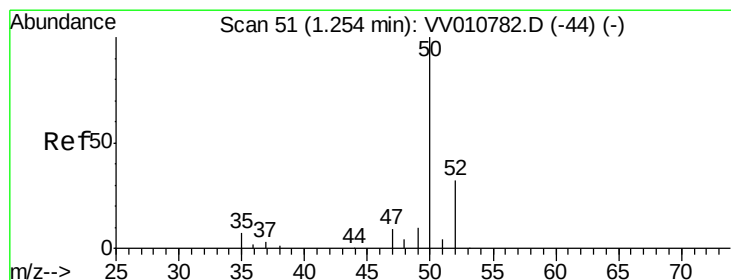
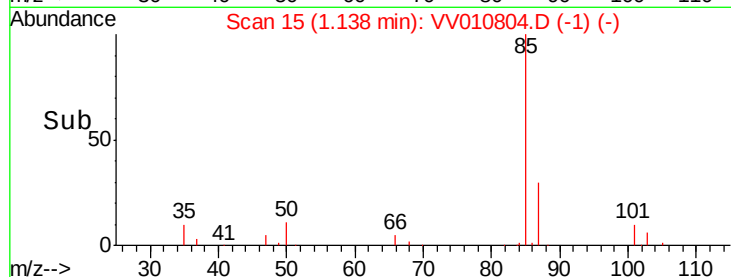
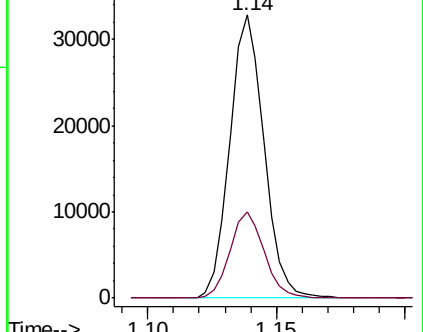
85 100

87 30.4 21.9 40.7



Abundance Ion 85.00 (84.70 to 85.70): VV010782.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV010782.D (-9) (-)



#3

Chloromethane

Concen: 21.948 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV010804.D

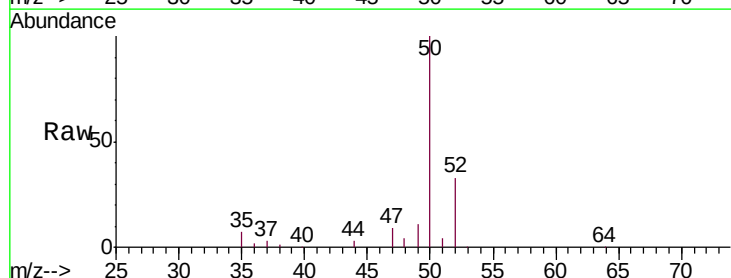
Acq: 10 May 2019 09:19

Tgt Ion: 50 Resp: 34239

Ion Ratio Lower Upper

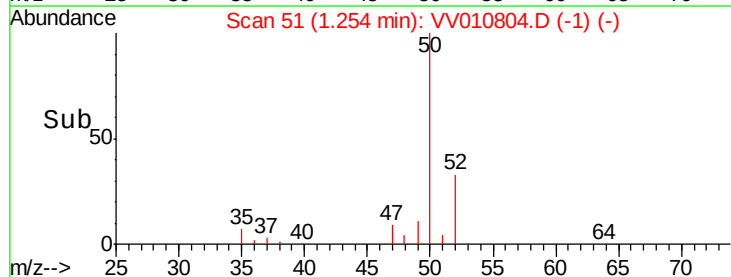
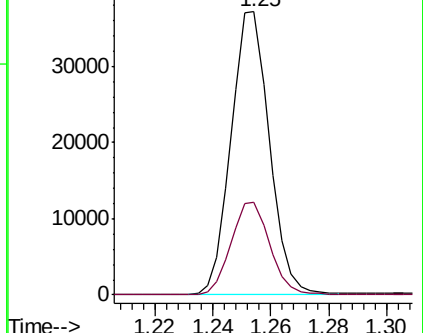
50 100

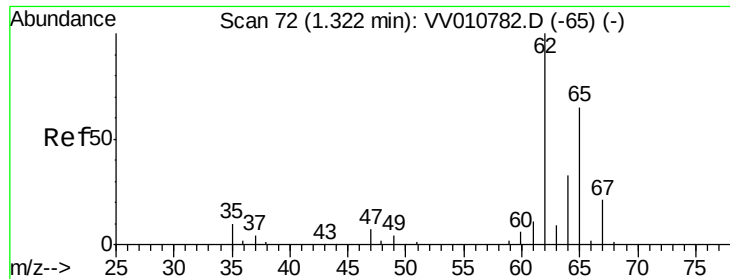
52 32.5 23.7 43.9



Abundance Ion 50.00 (49.70 to 50.70): VV010782.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV010782.D (-44) (-)





#5

Vinyl chloride

Concen: 23.384 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

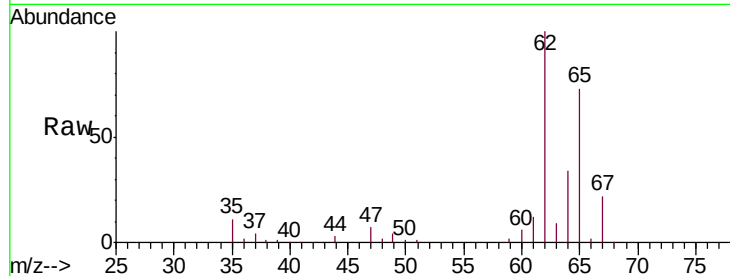
VSTD02593

Tgt Ion: 62 Resp: 42357

Ion Ratio Lower Upper

62 100

64 34.3 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

40000

30000

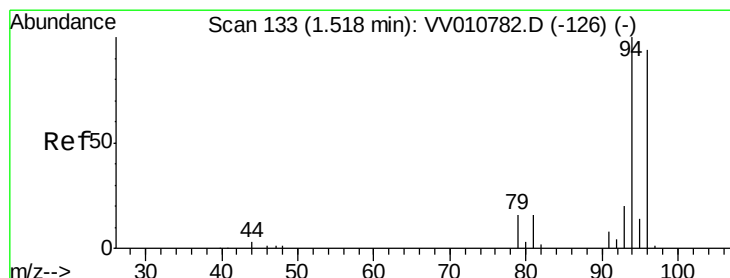
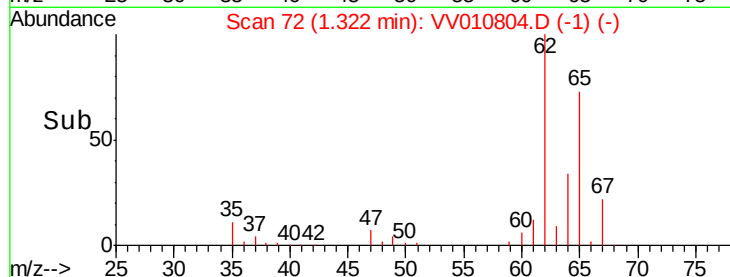
20000

10000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 26.738 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV010804.D

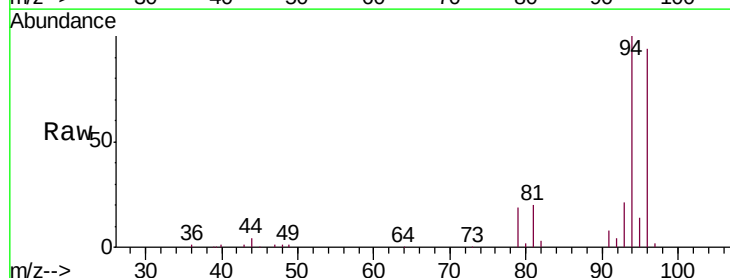
Acq: 10 May 2019 09:19

Tgt Ion: 94 Resp: 23488

Ion Ratio Lower Upper

94 100

96 93.7 9.4 179.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

25000

20000

15000

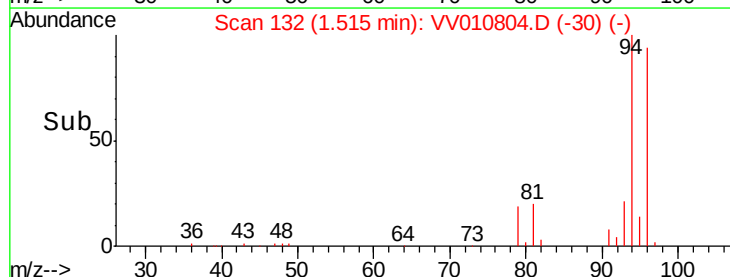
10000

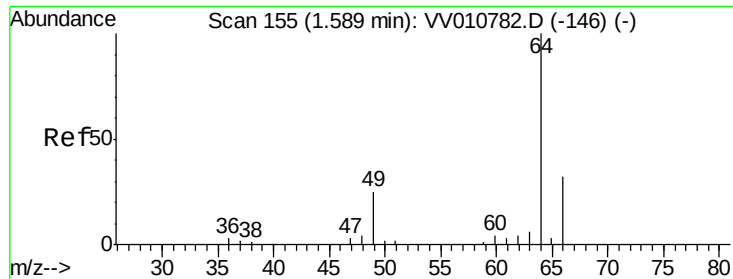
5000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 24.193 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

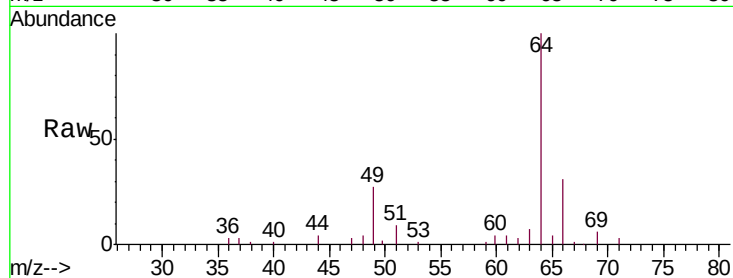
VSTD02593

Tgt Ion: 64 Resp: 27292

Ion Ratio Lower Upper

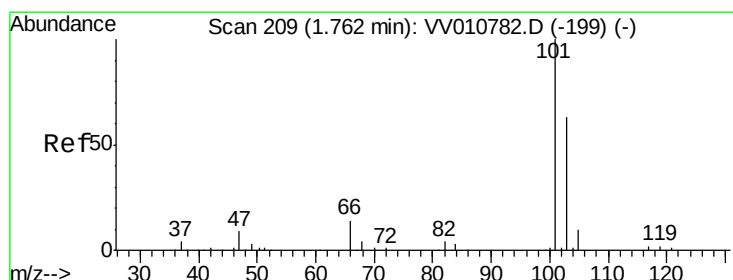
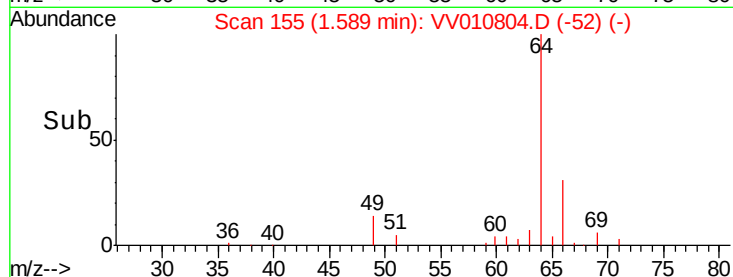
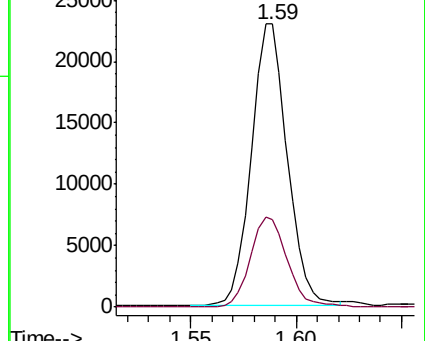
64 100

66 30.8 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VV010782.D (-146) (-)

Ion 66.00 (65.70 to 66.70): VV010782.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 24.732 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV010804.D

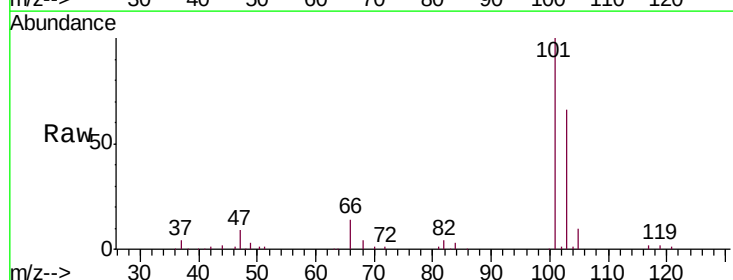
Acq: 10 May 2019 09:19

Tgt Ion: 101 Resp: 67438

Ion Ratio Lower Upper

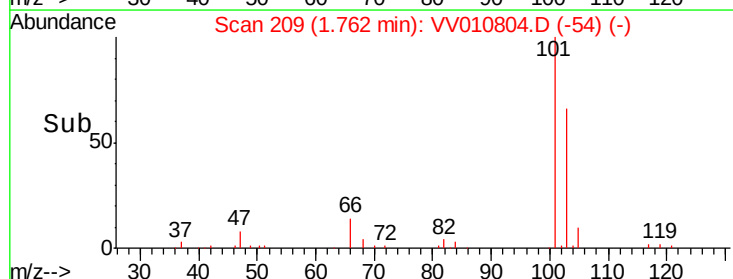
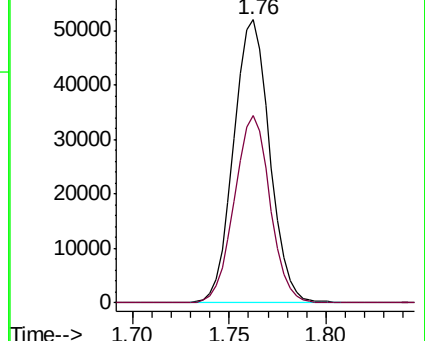
101 100

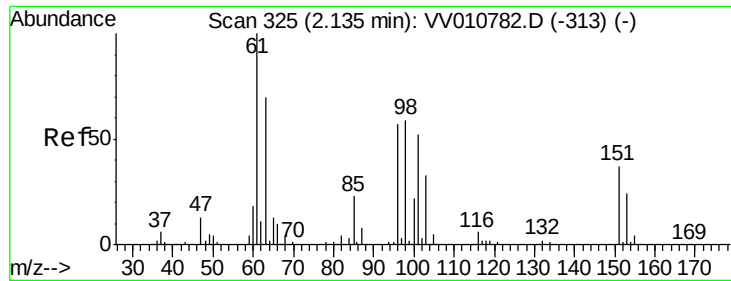
103 65.3 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV010782.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV010782.D (-199) (-)





#11

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

Concen: 25.993 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

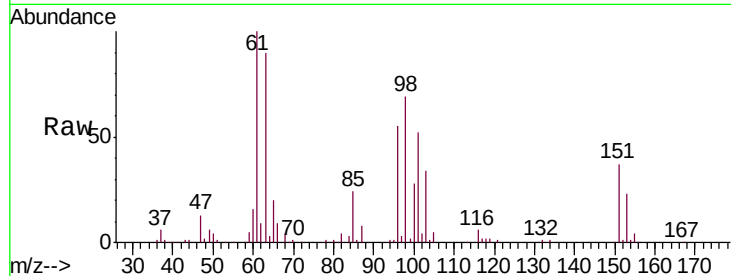
Tgt Ion: 101 Resp: 40464

Ion Ratio Lower Upper

101 100

85 46.2 36.0 54.0

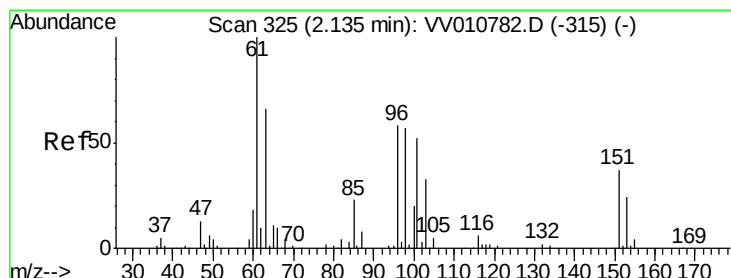
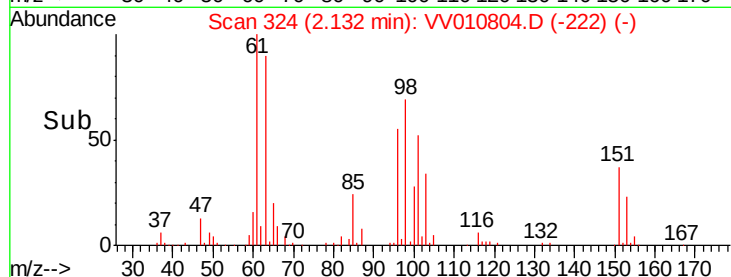
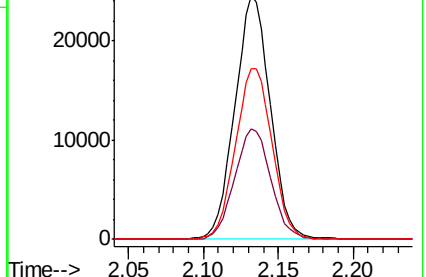
151 72.0 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): VV010782.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV010782.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV010782.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 25.612 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

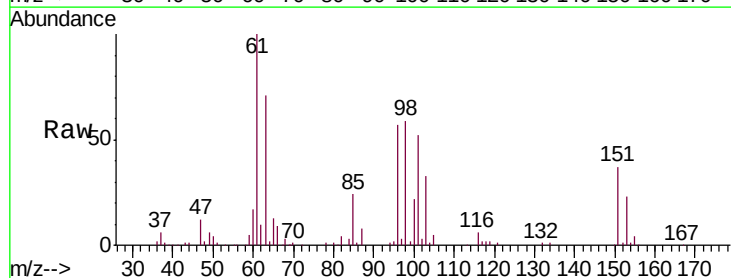
Tgt Ion: 96 Resp: 37334

Ion Ratio Lower Upper

96 100

61 175.0 120.3 223.3

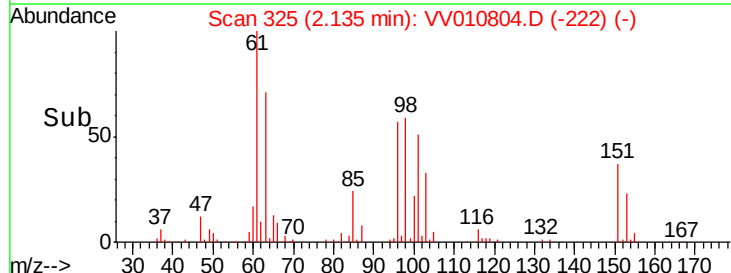
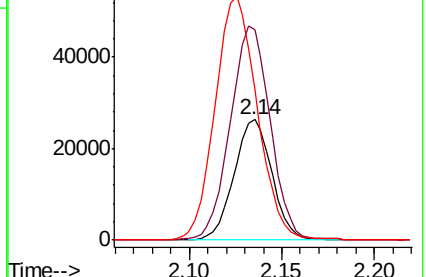
63 125.0 82.9 153.9

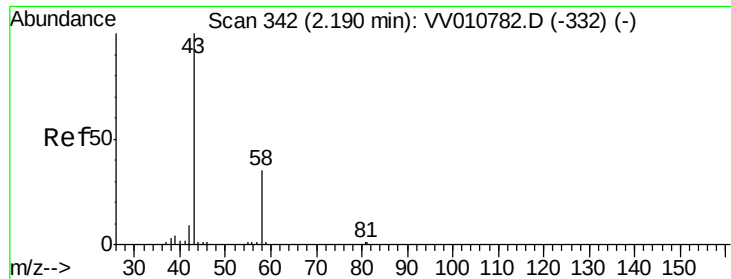


Abundance Ion 96.00 (95.70 to 96.70): VV010782.D (-315) (-)

Ion 61.00 (60.70 to 61.70): VV010782.D (-315) (-)

Ion 63.00 (62.70 to 63.70): VV010782.D (-315) (-)





#13

Acetone

Concen: 37.512 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

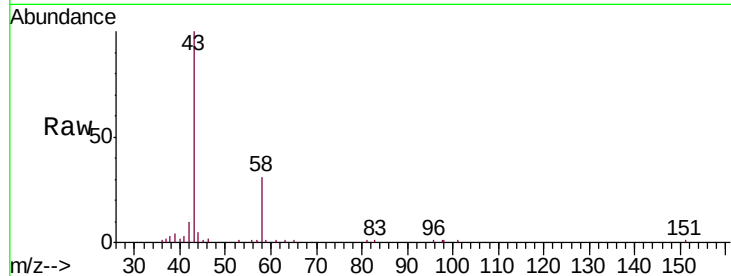
VSTD02593

Tgt Ion: 43 Resp: 25067

Ion Ratio Lower Upper

43 100

58 32.1 0.0 63.4



Abundance Ion 43.00 (42.70 to 43.70): VV010782.D (-332) (-)

Ion 58.00 (57.70 to 58.70): VV010782.D (-332) (-)

20000

15000

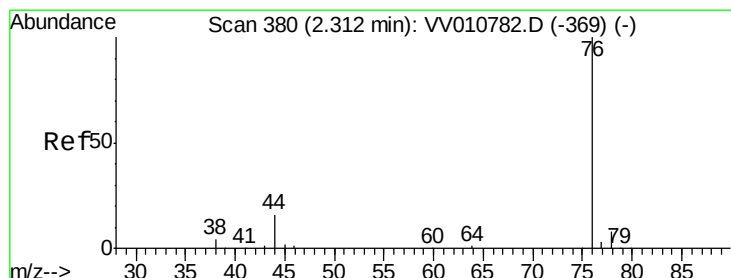
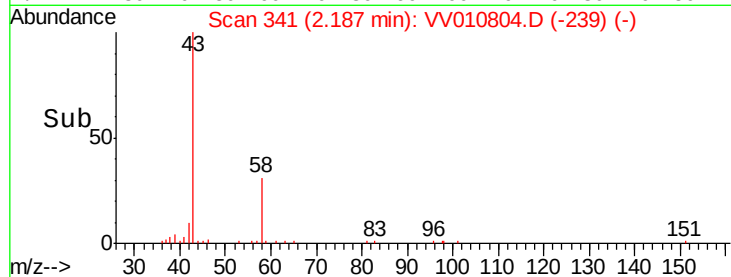
10000

5000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 23.877 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010804.D

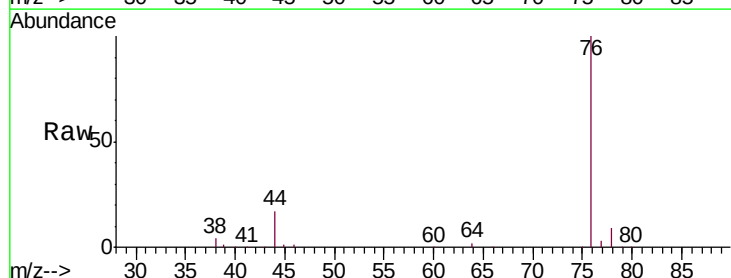
Acq: 10 May 2019 09:19

Tgt Ion: 76 Resp: 85530

Ion Ratio Lower Upper

76 100

78 9.4 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VV010782.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV010782.D (-369) (-)

60000

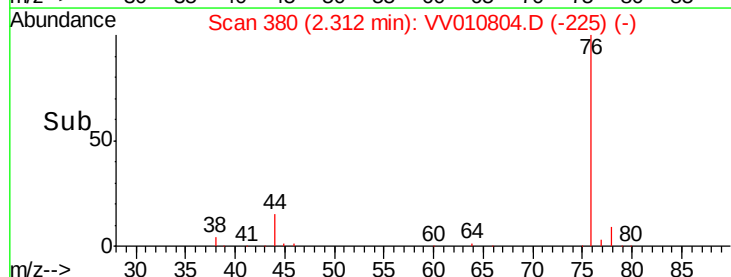
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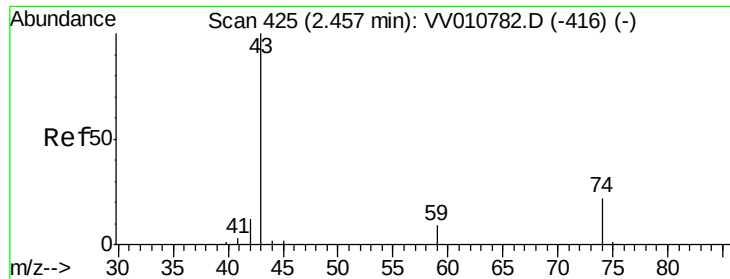
20000

0

2.25 2.30 2.35

Time-->

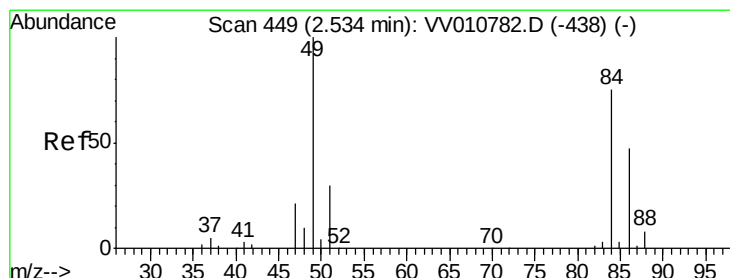
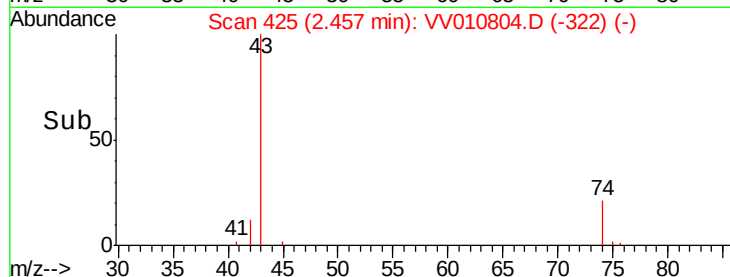
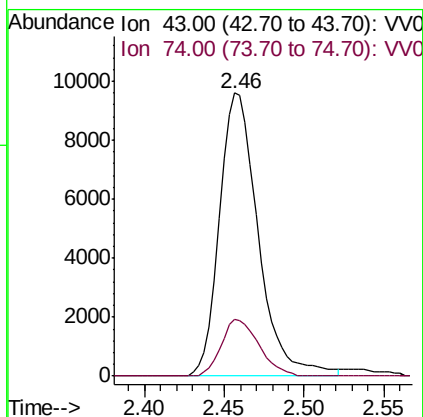
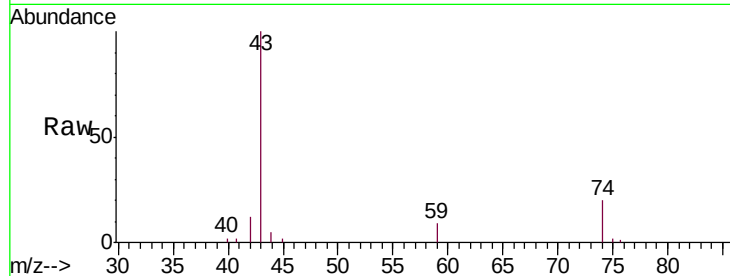




#15
Methyl Acetate
Concen: 20.044 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

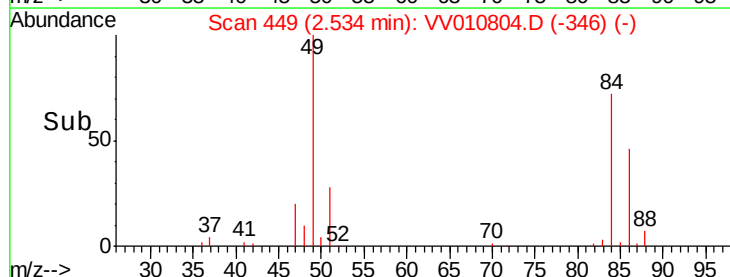
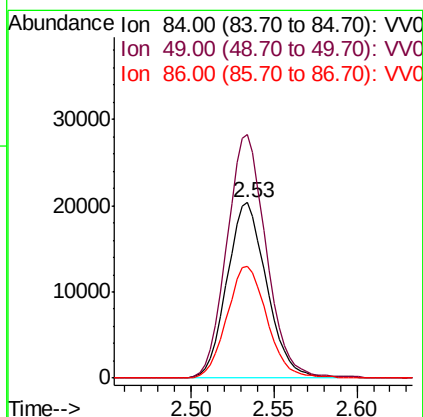
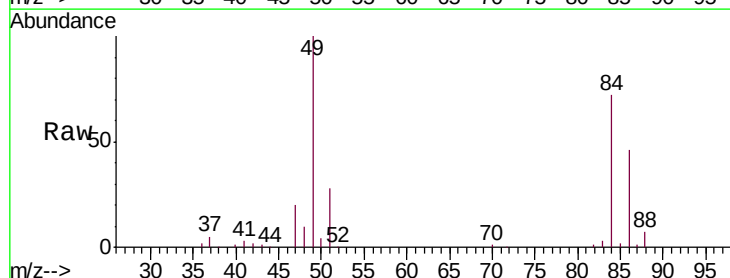
Instrument :
MSVOA_V
ClientSampled :
VSTD02593

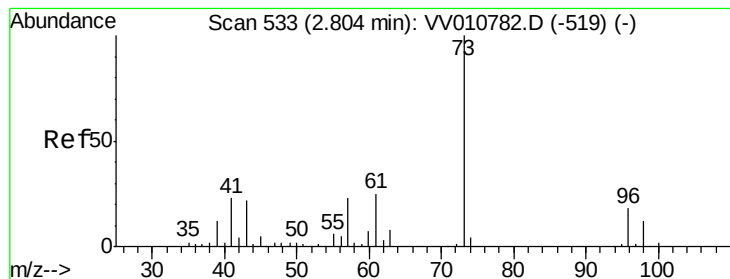
Tgt Ion: 43 Resp: 16001
Ion Ratio Lower Upper
43 100
74 19.3 17.0 25.4



#16
Methylene chloride
Concen: 23.735 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Tgt Ion: 84 Resp: 33980
Ion Ratio Lower Upper
84 100
49 138.8 92.9 172.5
86 63.9 46.5 86.5





#17

Methyl tert-butyl Ether

Concen: 22.469 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

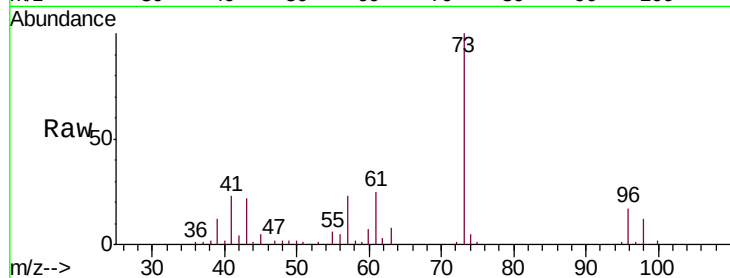
Tgt Ion: 73 Resp: 82013

Ion Ratio Lower Upper

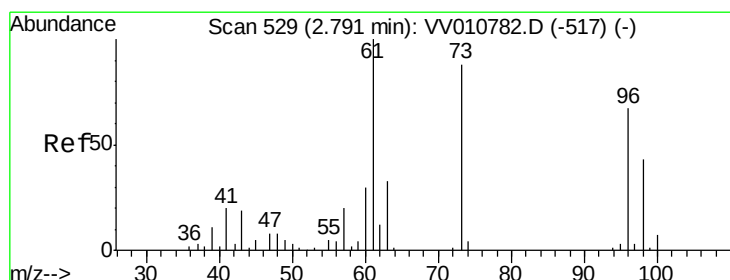
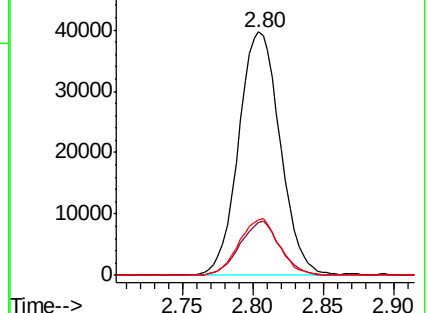
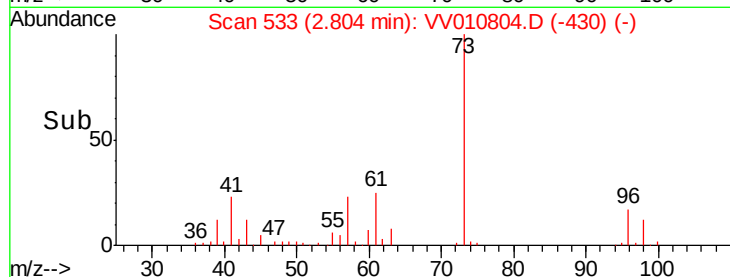
73 100

43 21.5 16.6 25.0

57 22.6 17.4 26.2



Abundance Ion 73.00 (72.70 to 73.70): VV010804.D (-430) (-)



#18

trans-1,2-Dichloroethene

Concen: 24.761 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

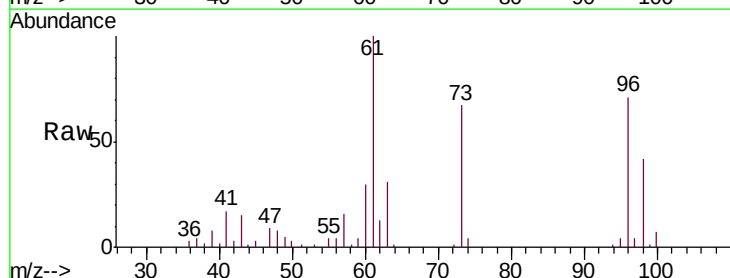
Tgt Ion: 96 Resp: 32626

Ion Ratio Lower Upper

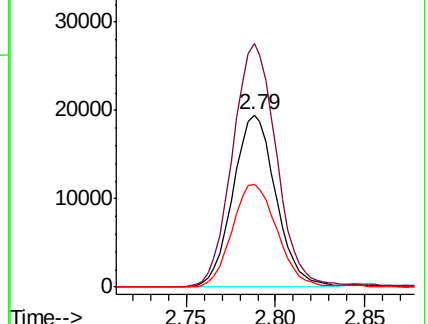
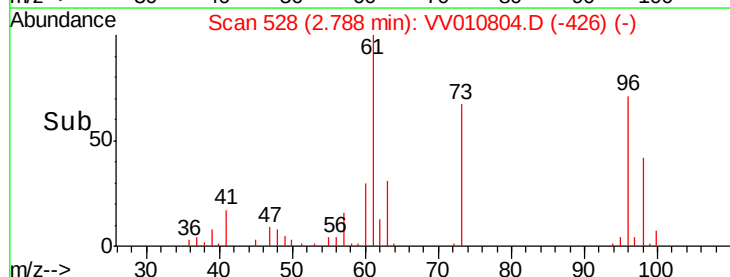
96 100

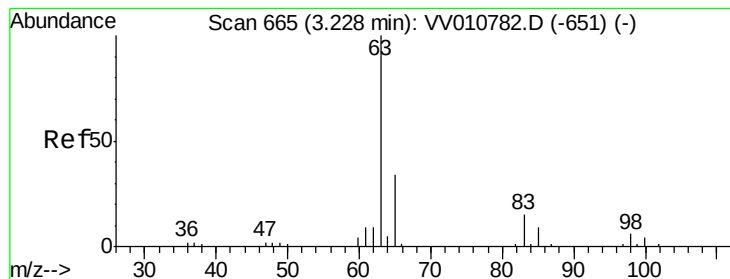
61 141.4 102.8 190.8

98 59.9 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VV010804.D (-426) (-)





#19

1,1-Dichloroethane

Concen: 25.444 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

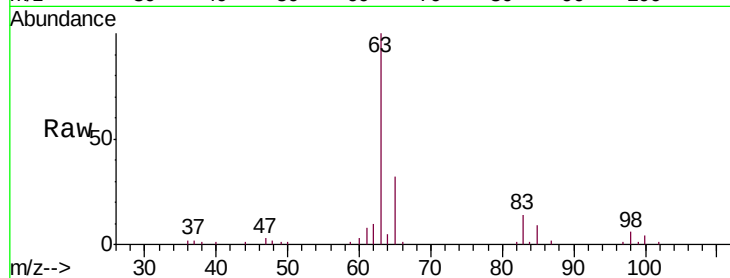
Tgt Ion: 63 Resp: 64723

Ion Ratio Lower Upper

63 100

65 31.6 22.5 41.7

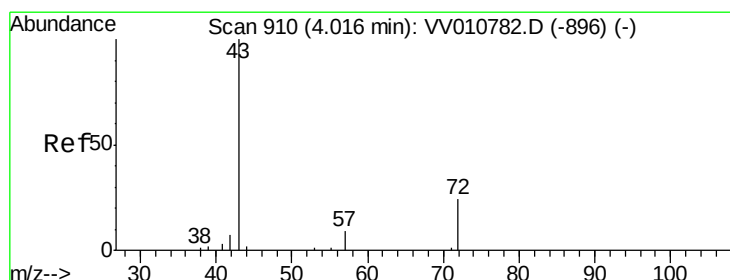
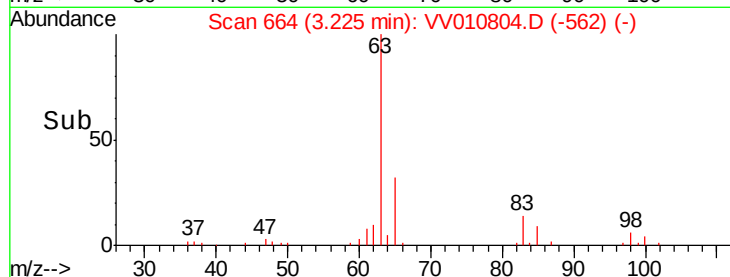
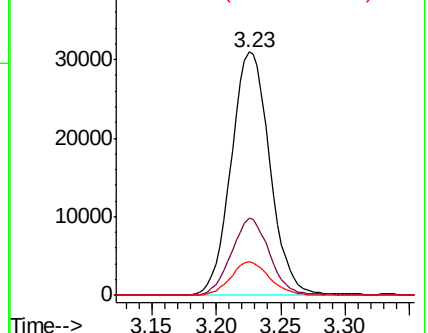
83 13.6 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV010782.D (-651) (-)

Ion 65.00 (64.70 to 65.70): VV010782.D (-651) (-)

Ion 83.00 (82.70 to 83.70): VV010782.D (-651) (-)



#21

2-Butanone

Concen: 37.480 ug/L

RT: 4.01 min Scan# 909

Delta R.T. -0.00 min

Lab File: VV010804.D

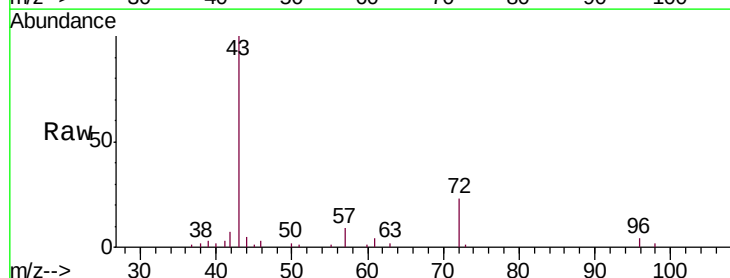
Acq: 10 May 2019 09:19

Tgt Ion: 43 Resp: 23737

Ion Ratio Lower Upper

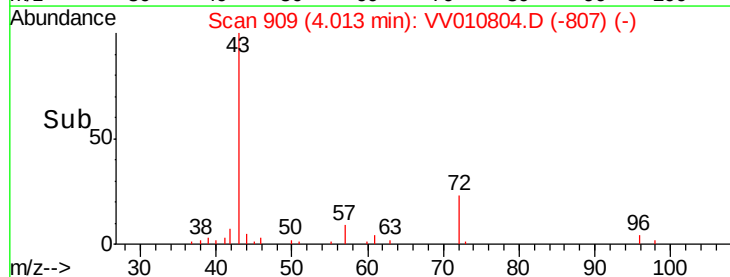
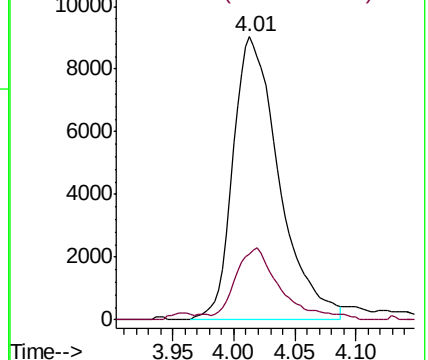
43 100

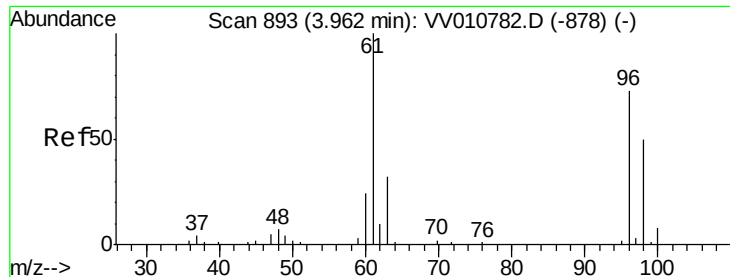
72 20.7 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VV010782.D (-896) (-)

Ion 72.00 (71.70 to 72.70): VV010782.D (-896) (-)



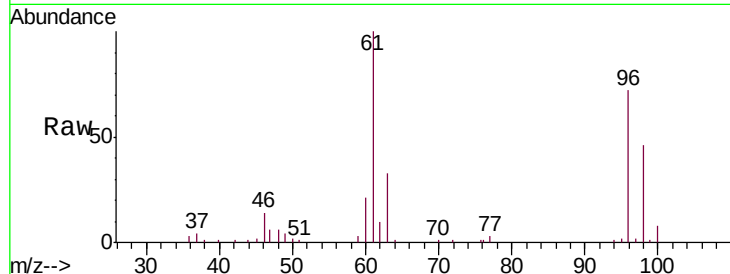


#22

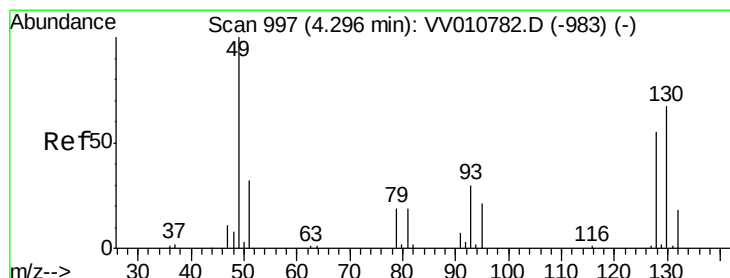
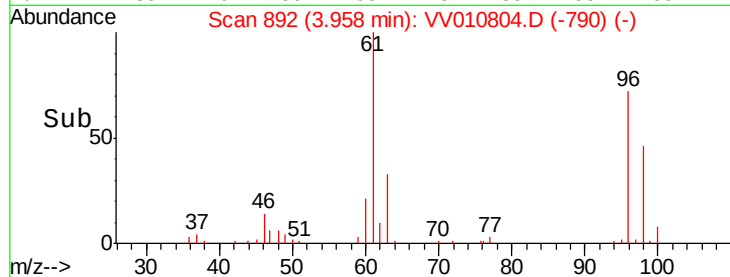
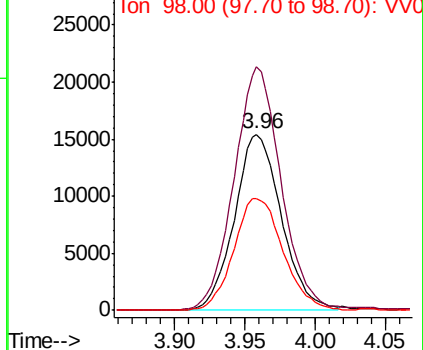
cis-1,2-Dichloroethene
Concen: 23.859 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Instrument :
MSVOA_V
ClientSampled :
VSTD02593

Tgt Ion: 96 Resp: 35912
Ion Ratio Lower Upper
96 100
61 138.5 93.9 174.5
98 63.3 46.5 86.5



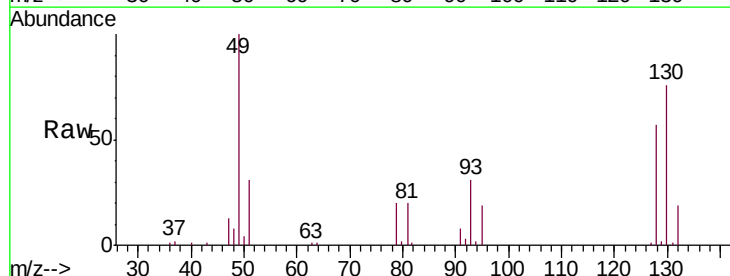
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



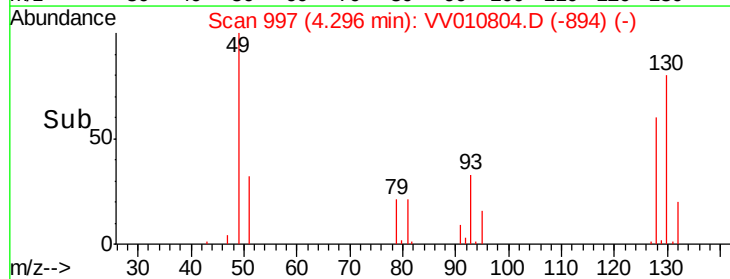
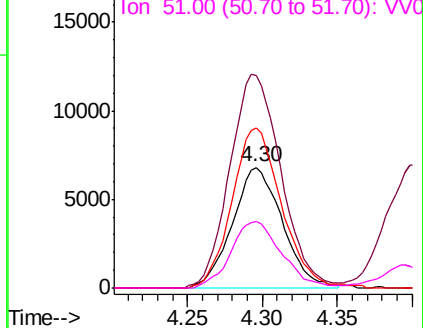
#23

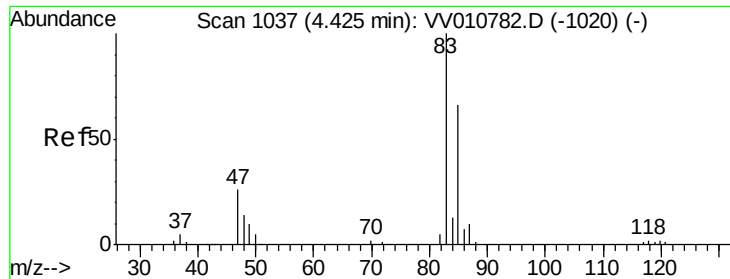
Bromochloromethane
Concen: 23.426 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Tgt Ion: 128 Resp: 15850
Ion Ratio Lower Upper
128 100
49 176.0 122.6 227.8
130 133.3 84.0 156.0
51 54.9 45.0 67.4



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

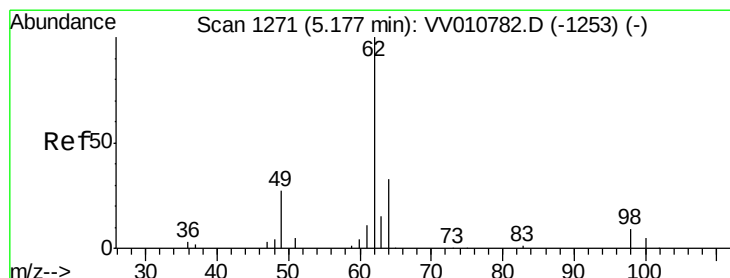
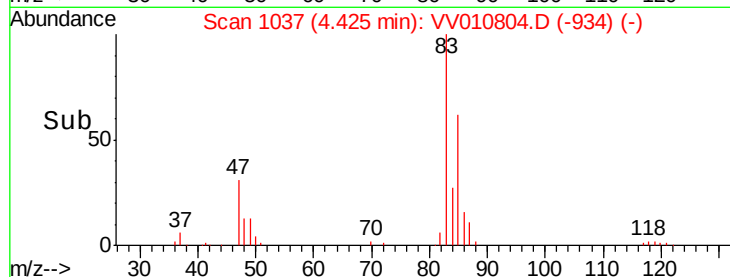
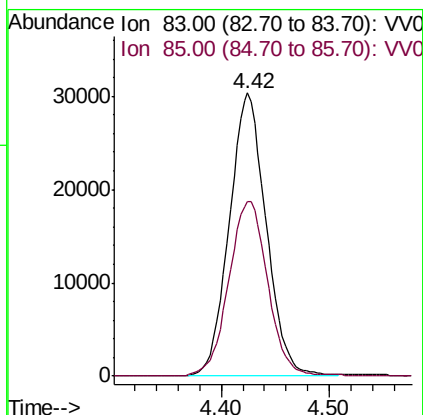
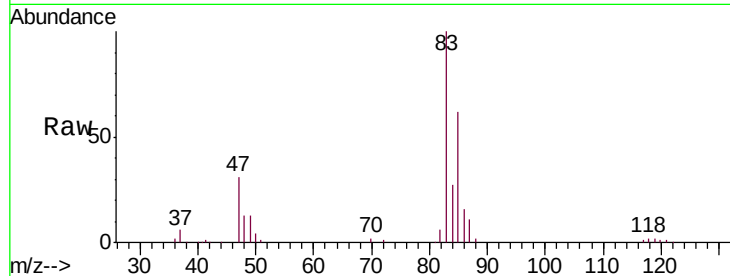




#25
Chloroform
Concen: 25.763 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

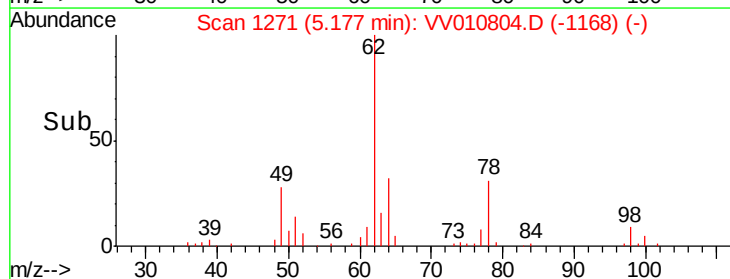
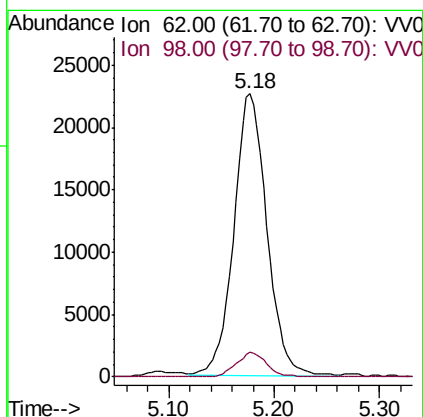
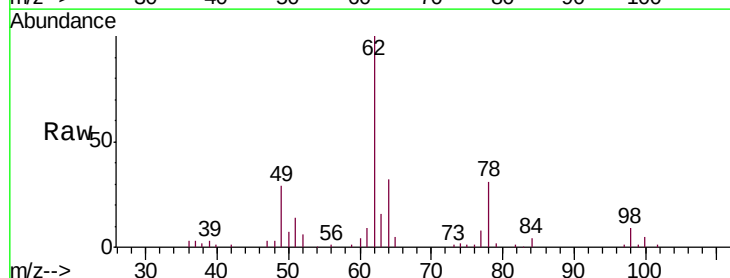
Instrument :
MSVOA_V
ClientSampleId :
VSTD02593

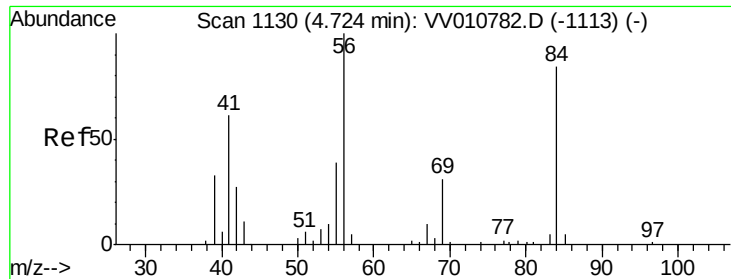
Tgt Ion: 83 Resp: 72197
Ion Ratio Lower Upper
83 100
85 65.1 44.6 82.8



#27
1,2-Dichloroethane
Concen: 23.903 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Tgt Ion: 62 Resp: 48961
Ion Ratio Lower Upper
62 100
98 8.6 6.3 9.5

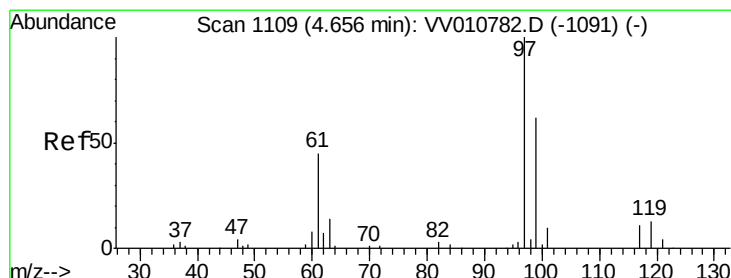
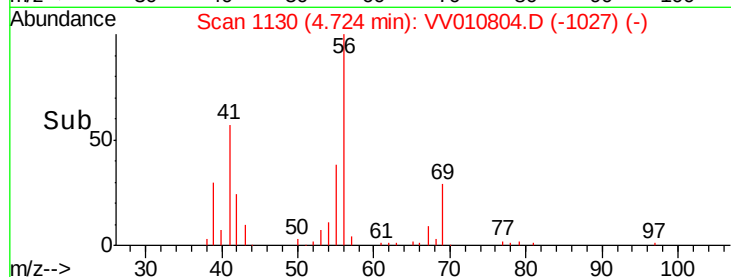
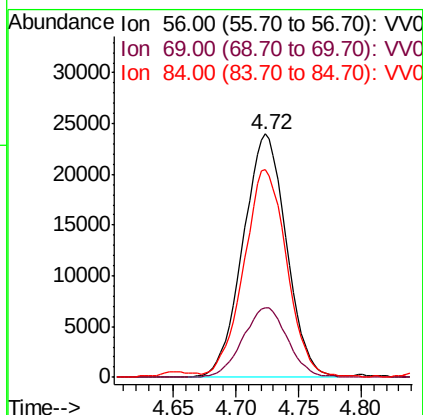
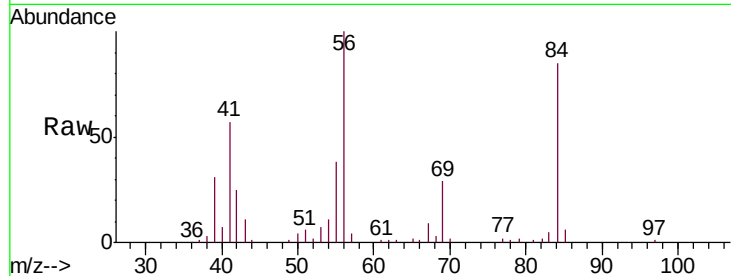




#30
Cyclohexane
Concen: 24.209 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

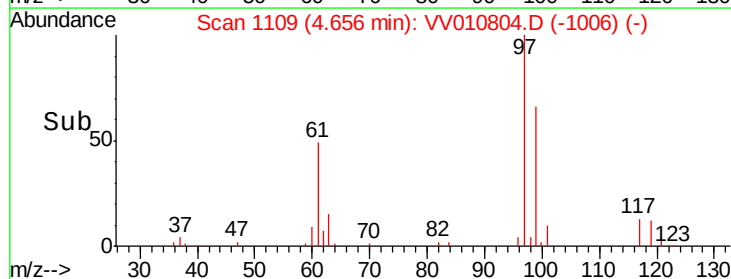
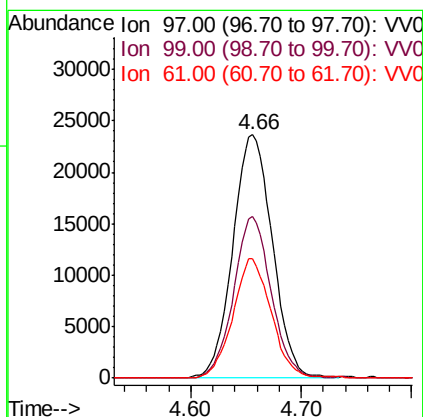
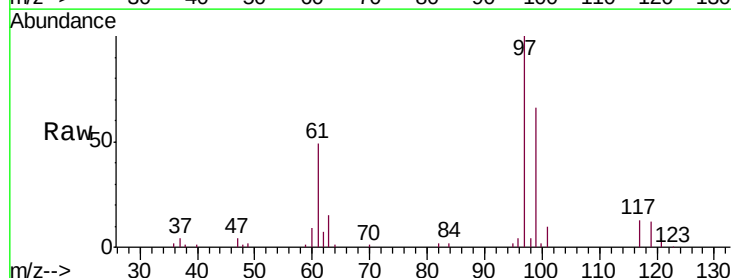
Instrument :
MSVOA_V
ClientSampleId :
VSTD02593

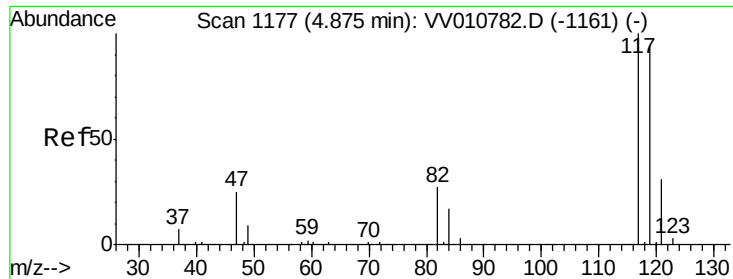
Tgt Ion: 56 Resp: 57657
Ion Ratio Lower Upper
56 100
69 29.3 24.2 36.4
84 85.0 66.5 99.7



#31
1,1,1-Trichloroethane
Concen: 24.775 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Tgt Ion: 97 Resp: 58661
Ion Ratio Lower Upper
97 100
99 63.0 50.2 75.2
61 47.2 36.7 55.1





#32

Carbon tetrachloride

Concen: 25.283 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

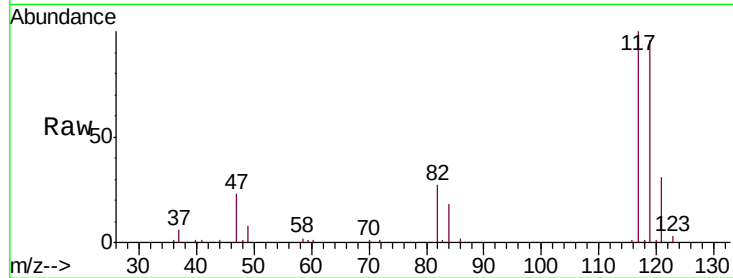
VSTD02593

Tgt Ion:117 Resp: 52146

Ion Ratio Lower Upper

117 100

119 93.8 74.9 112.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

25000

20000

15000

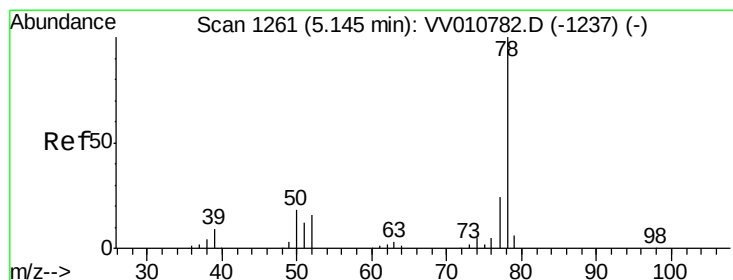
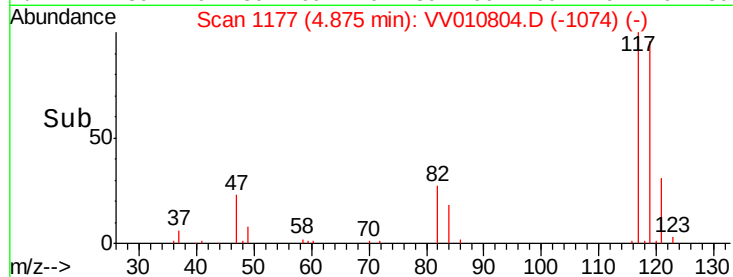
10000

5000

0

4.80 4.85 4.90 4.95

Time-->



#34

Benzene

Concen: 25.016 ug/L

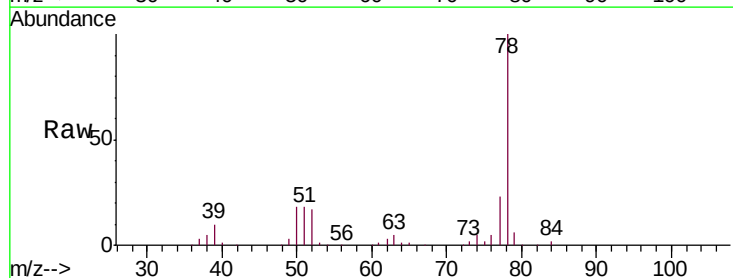
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Tgt Ion: 78 Resp: 139452



Abundance Ion 78.00 (77.70 to 78.70): VV0

60000

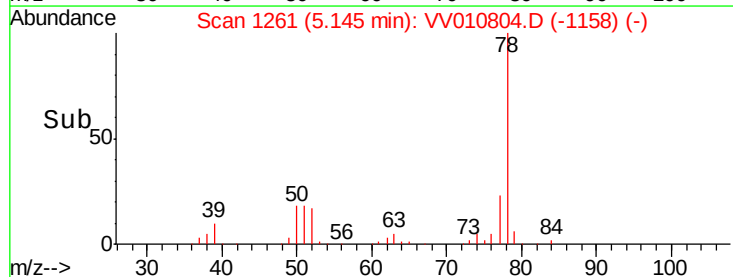
40000

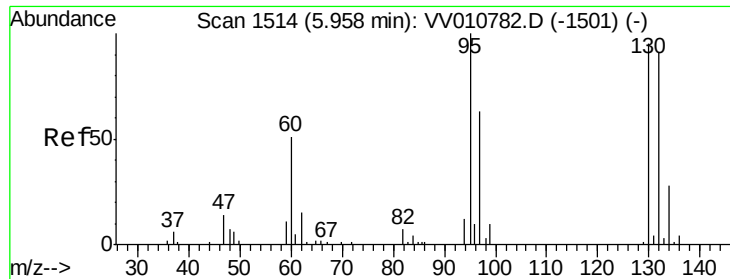
20000

0

5.05 5.10 5.15 5.20 5.25

Time-->





#35

Trichloroethene

Concen: 24.638 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

Tgt Ion: 95 Resp: 38473

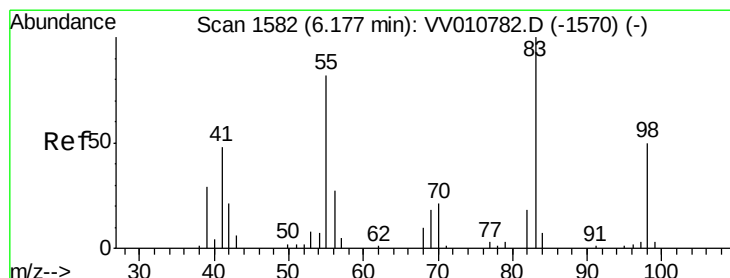
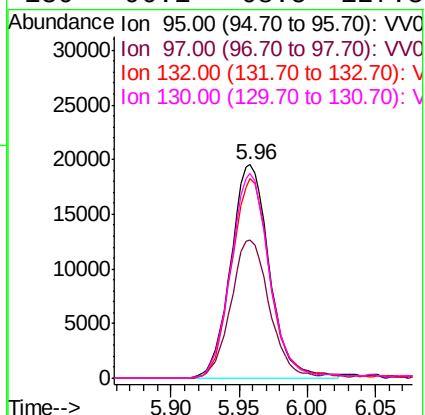
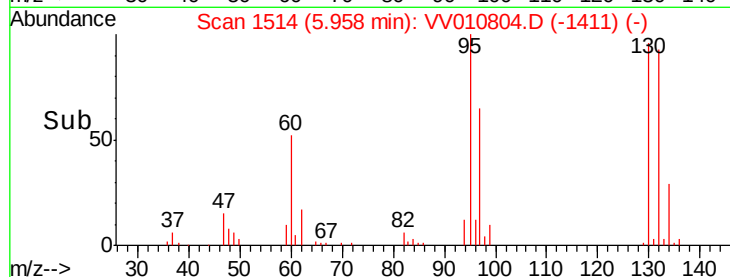
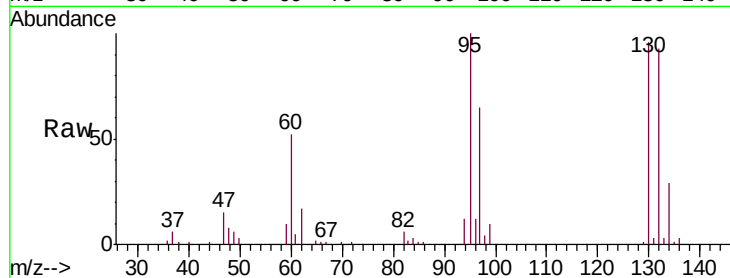
Ion Ratio Lower Upper

95 100

97 64.5 44.3 82.3

132 92.6 62.4 115.8

130 96.1 68.5 127.3



#36

Methylcyclohexane

Concen: 24.190 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

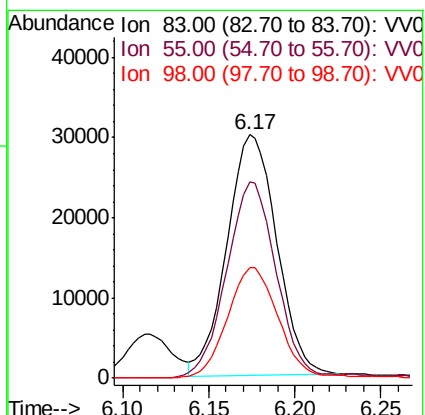
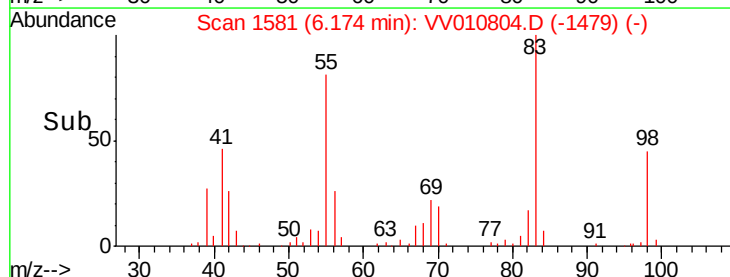
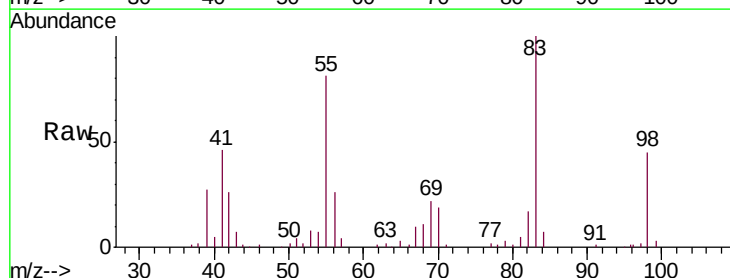
Tgt Ion: 83 Resp: 60540

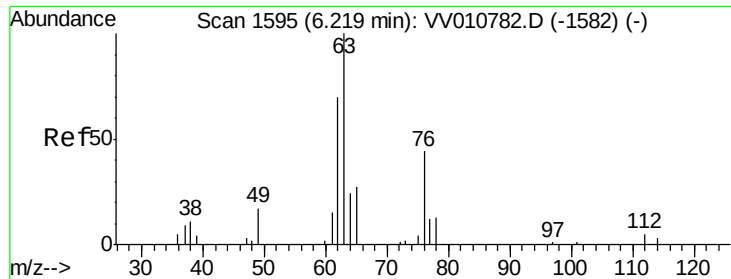
Ion Ratio Lower Upper

83 100

55 81.3 64.6 96.8

98 46.2 37.7 56.5

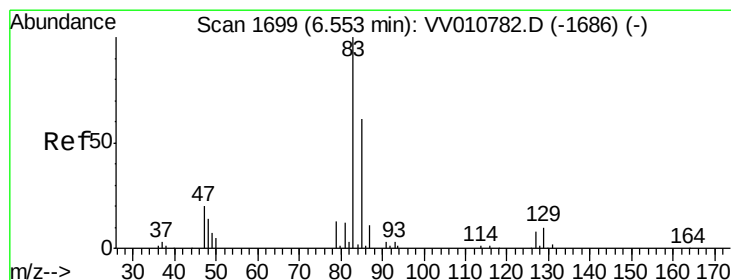
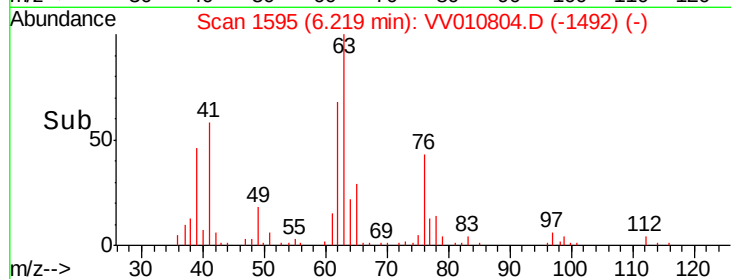
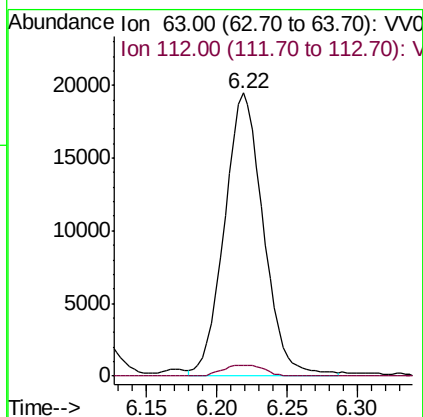
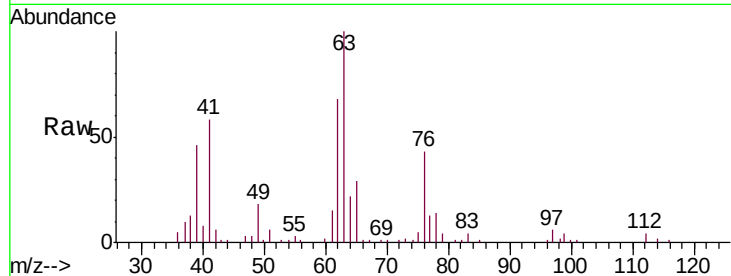




#40
 1,2-Dichloropropane
 Concen: 25.393 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

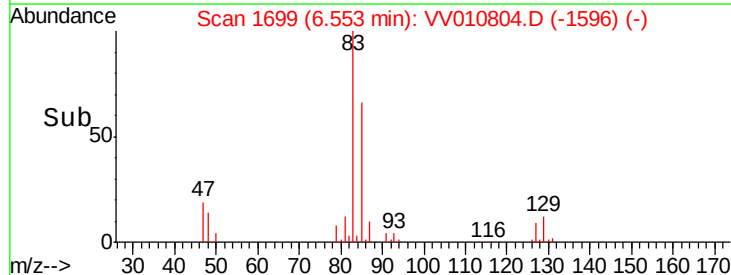
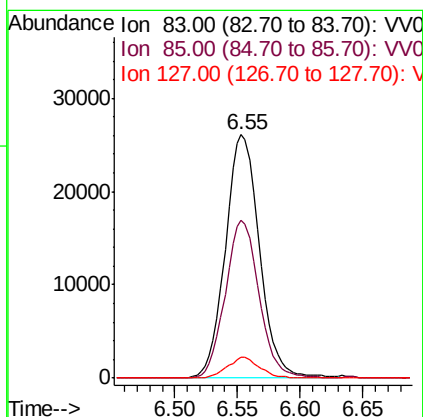
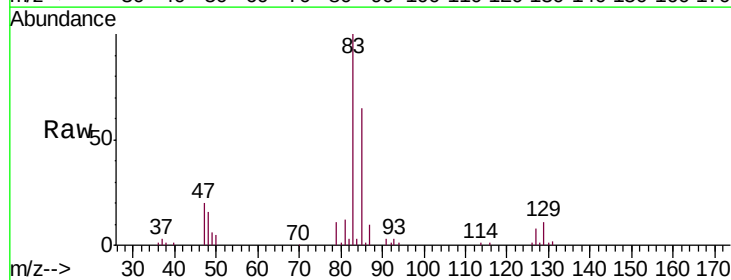
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02593

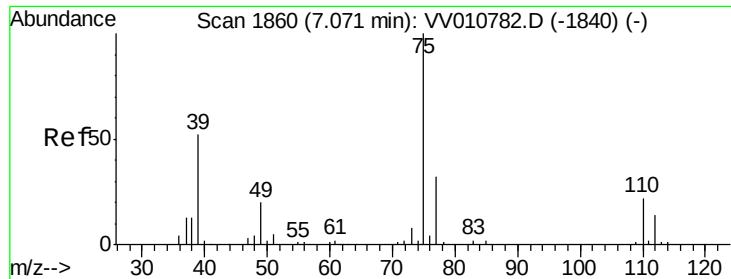
Tgt Ion: 63 Resp: 37657
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.4 5.2



#41
 Bromodichloromethane
 Concen: 24.236 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

Tgt Ion: 83 Resp: 49384
 Ion Ratio Lower Upper
 83 100
 85 64.7 43.5 80.7
 127 8.4 6.2 9.4



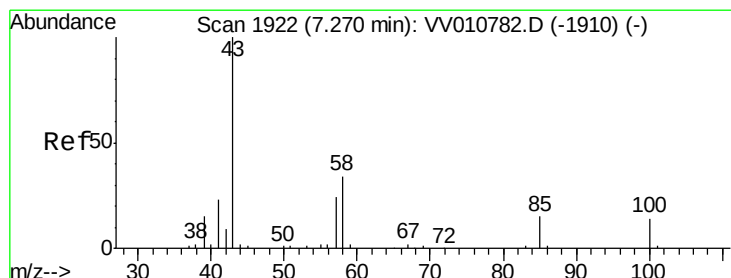
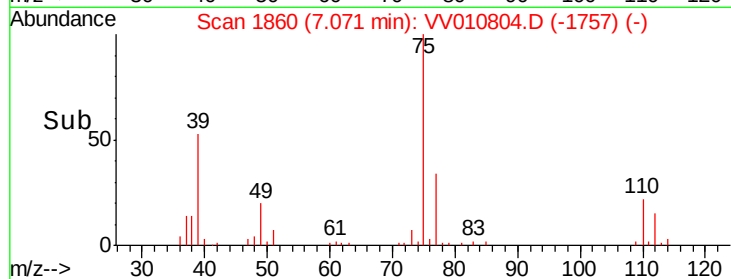
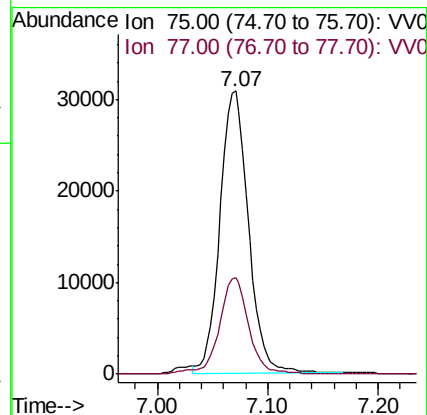
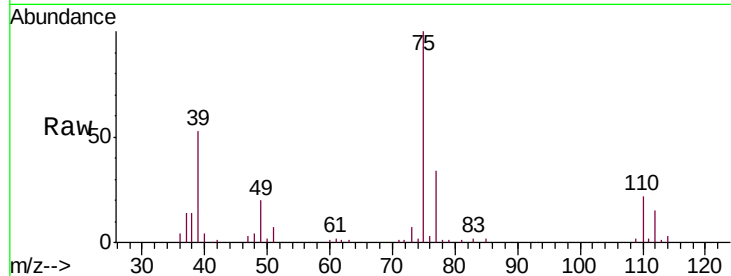


#42

cis-1,3-Dichloropropene
Concen: 23.644 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Instrument :
MSVOA_V
ClientSampleId :
VSTD02593

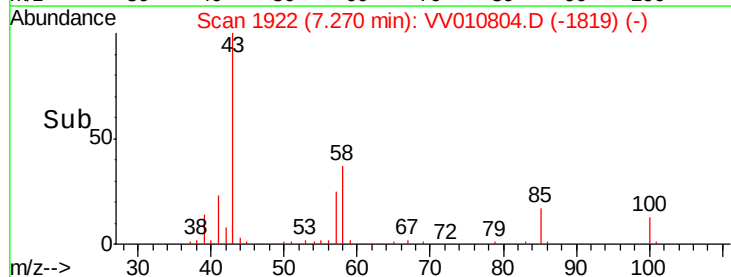
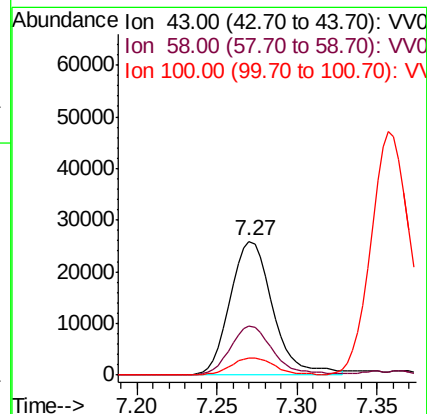
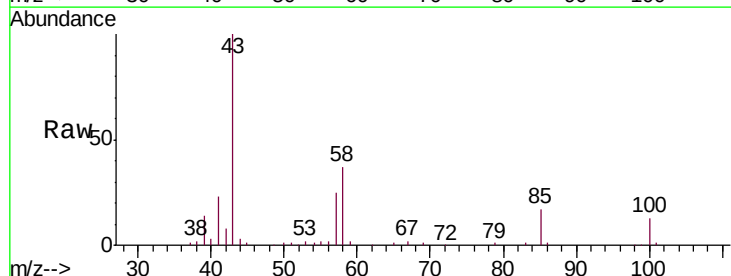
Tgt Ion: 75 Resp: 55458
Ion Ratio Lower Upper
75 100
77 34.0 22.3 41.3

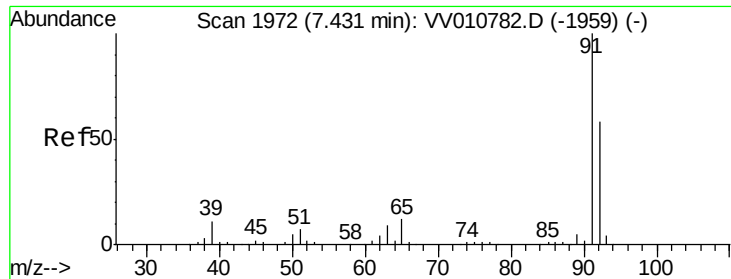


#43

4-Methyl-2-pentanone
Concen: 37.972 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Tgt Ion: 43 Resp: 47400
Ion Ratio Lower Upper
43 100
58 36.6 28.1 42.1
100 13.0 11.0 16.6





#44

Toluene

Concen: 25.048 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

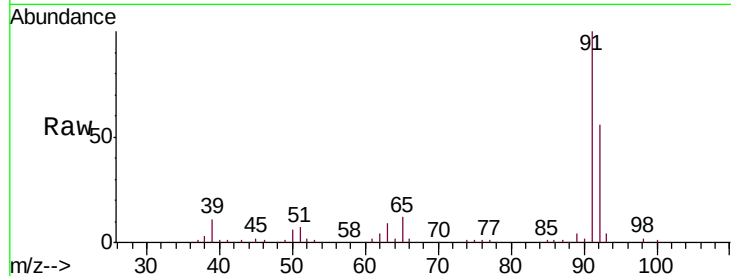
VSTD02593

Tgt Ion: 91 Resp: 158588

Ion Ratio Lower Upper

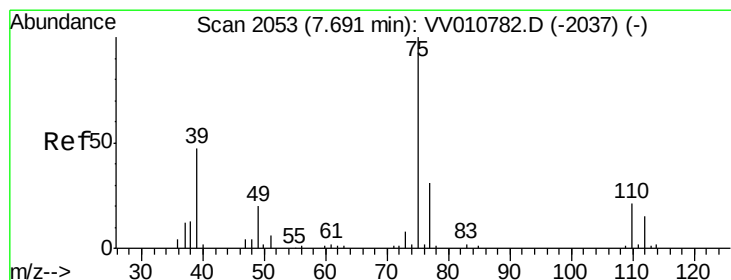
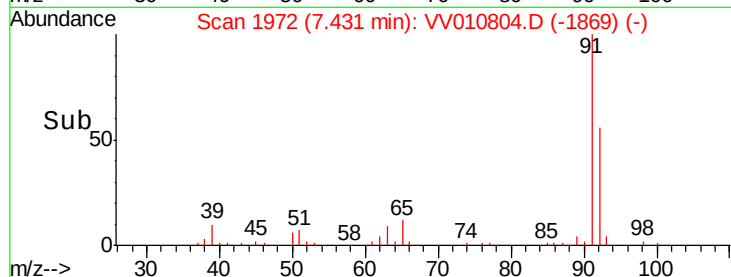
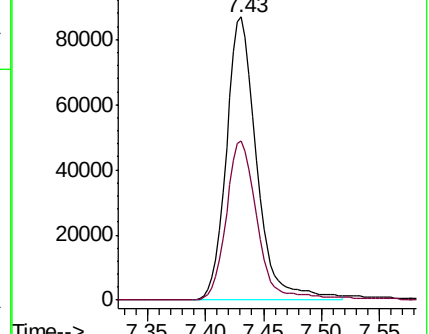
91 100

92 56.1 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV010782.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV010782.D (-1959) (-)



#45

trans-1,3-Dichloropropene

Concen: 23.601 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010804.D

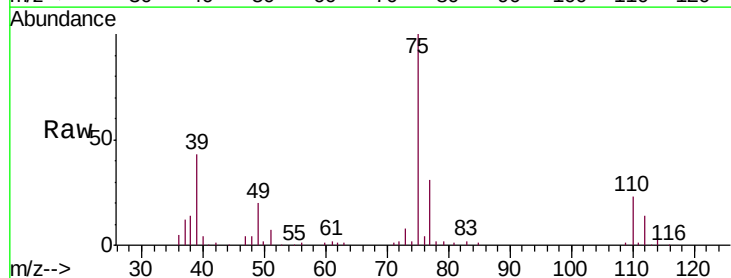
Acq: 10 May 2019 09:19

Tgt Ion: 75 Resp: 46614

Ion Ratio Lower Upper

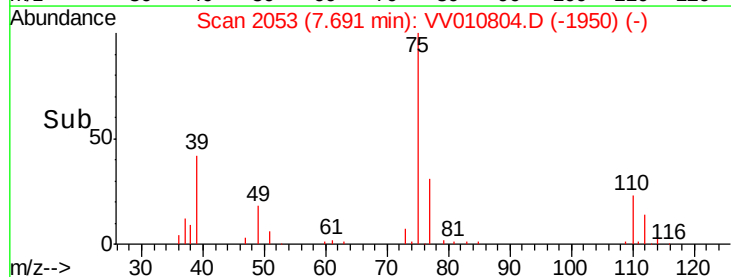
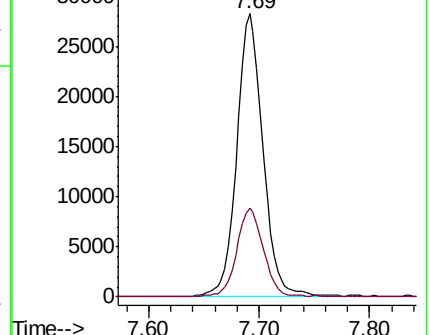
75 100

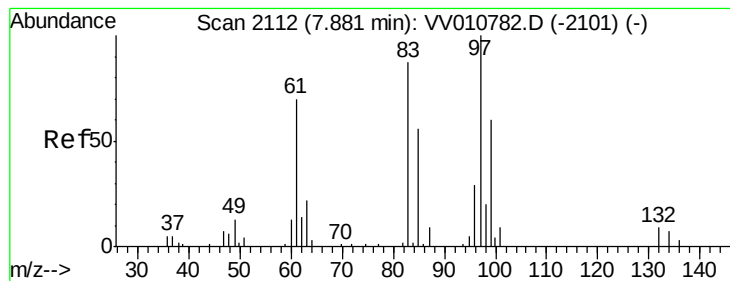
77 31.4 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VV010782.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV010782.D (-2037) (-)





#46

1,1,2-Trichloroethane

Concen: 22.836 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

Tgt Ion: 97 Resp: 27820

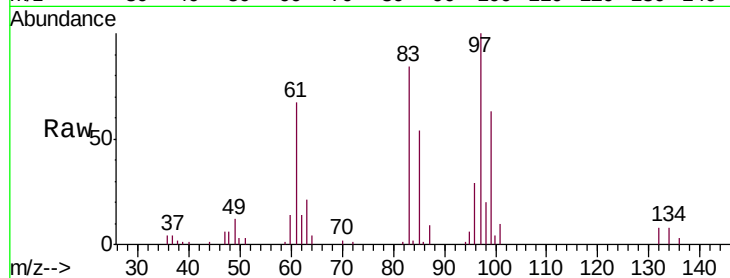
Ion Ratio Lower Upper

97 100

83 84.1 62.8 116.6

85 53.9 40.2 74.6

99 63.0 42.6 79.0

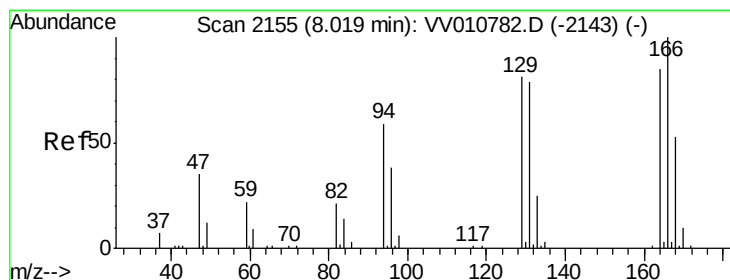
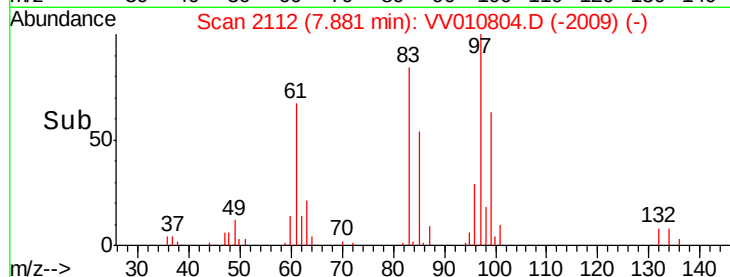
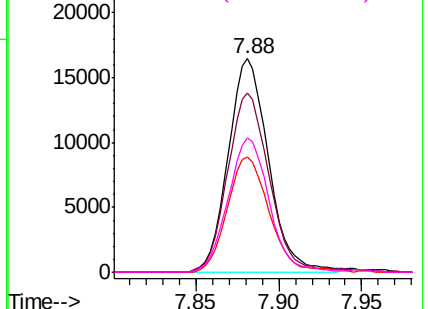


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 23.662 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Tgt Ion: 164 Resp: 26759

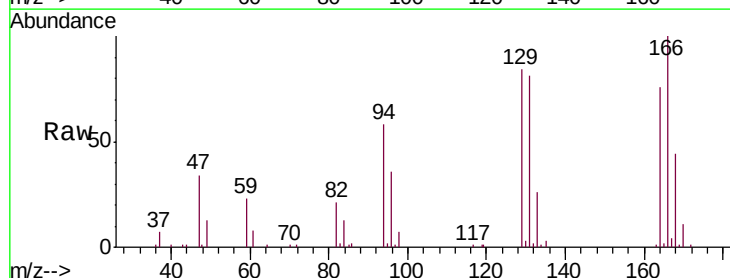
Ion Ratio Lower Upper

164 100

129 110.2 69.3 128.7

131 106.8 67.3 125.1

166 131.5 81.1 150.7

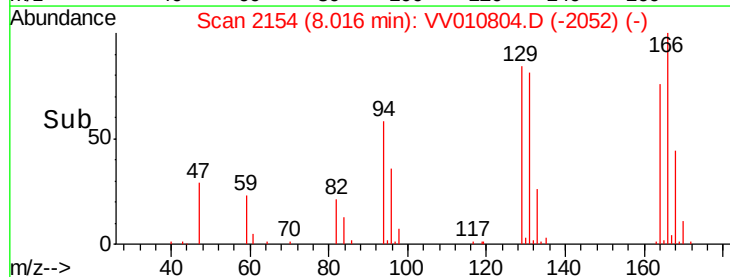
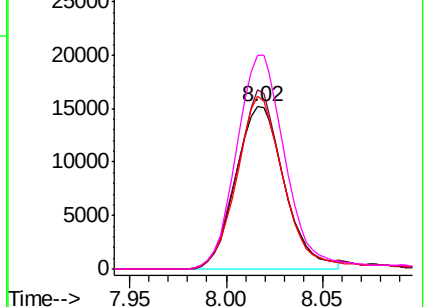


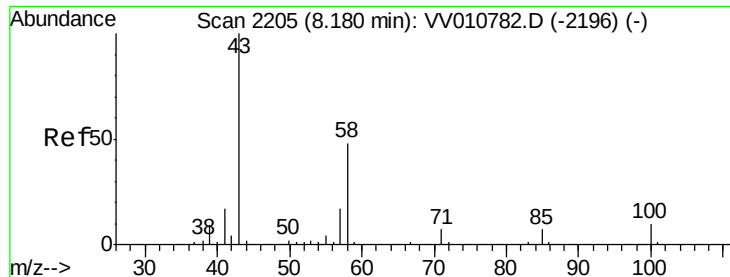
Abundance Ion 164.00 (163.70 to 164.70): V

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

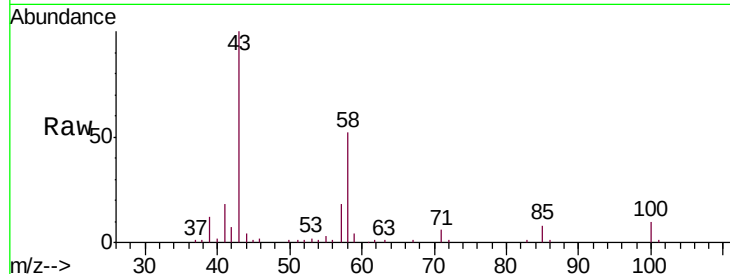




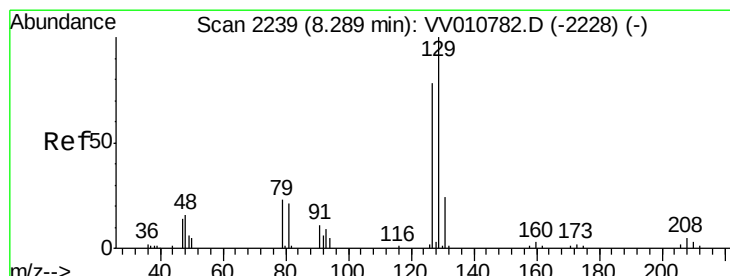
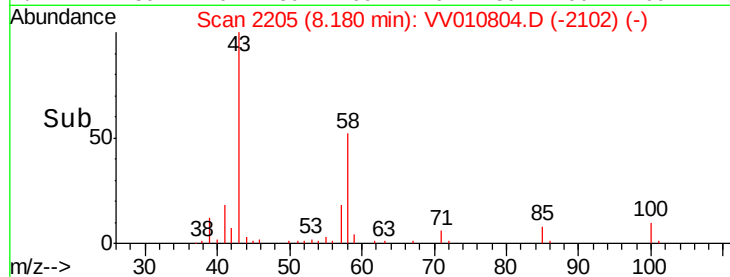
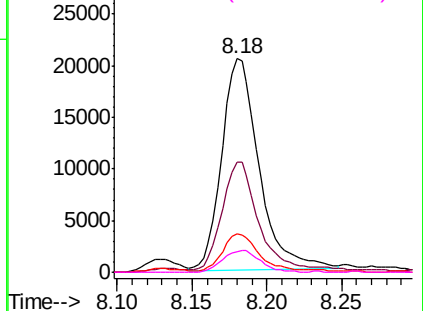
#49
2-Hexanone
Concen: 37.686 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Instrument :
MSVOA_V
ClientSampleId :
VSTD02593

Tgt Ion:	43	Resp:	35766
Ion	Ratio	Lower	Upper
43	100		
58	49.0	39.4	59.0
57	16.6	14.2	21.4
100	10.3	8.2	12.2

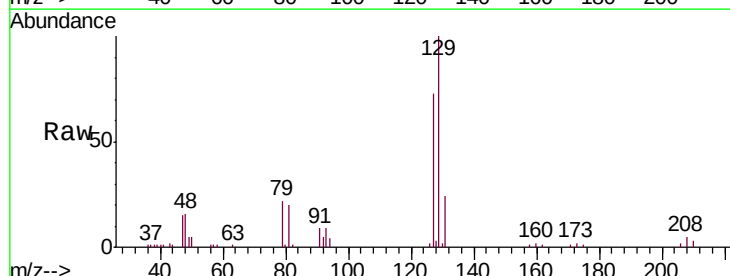


Abundance Ion 43.00 (42.70 to 43.70): VV010804.D (-2102) (-)
Ion 58.00 (57.70 to 58.70): VV010804.D (-2102) (-)
Ion 57.00 (56.70 to 57.70): VV010804.D (-2102) (-)
Ion 100.00 (99.70 to 100.70): VV010804.D (-2102) (-)

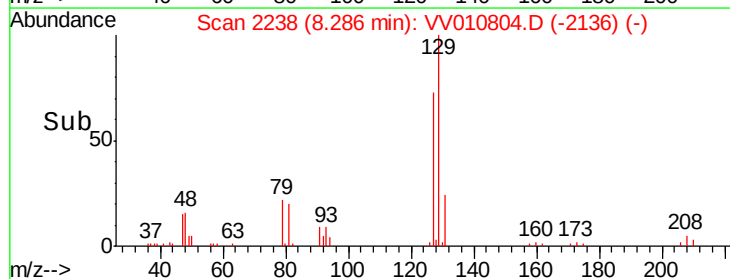
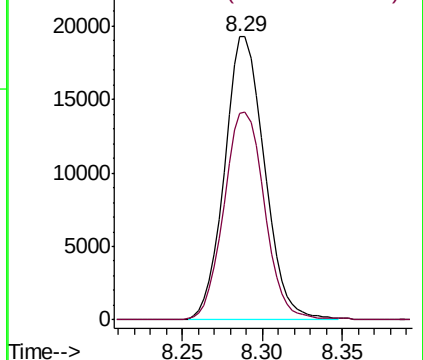


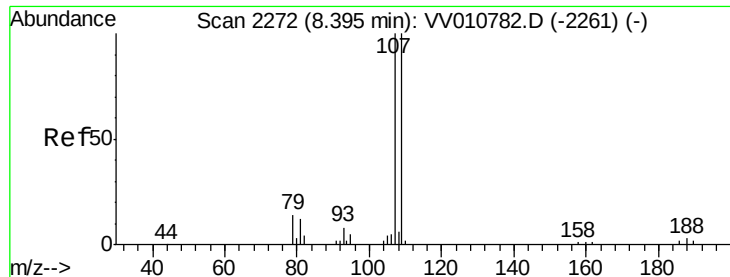
#50
Dibromochloromethane
Concen: 23.464 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV010804.D
Acq: 10 May 2019 09:19

Tgt Ion:	129	Resp:	32872
Ion	Ratio	Lower	Upper
129	100		
127	73.0	54.5	101.1



Abundance Ion 129.00 (128.70 to 129.70): VV010804.D (-2136) (-)
Ion 127.00 (126.70 to 127.70): VV010804.D (-2136) (-)





#51

1,2-Dibromoethane

Concen: 22.008 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

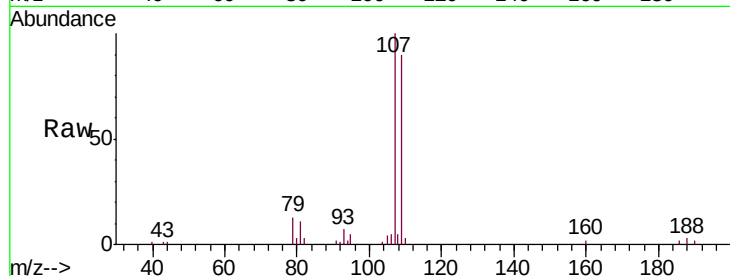
Tgt Ion:107 Resp: 25896

Ion Ratio Lower Upper

107 100

109 90.1 66.6 123.6

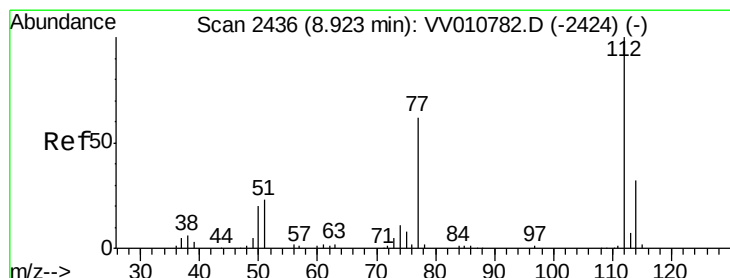
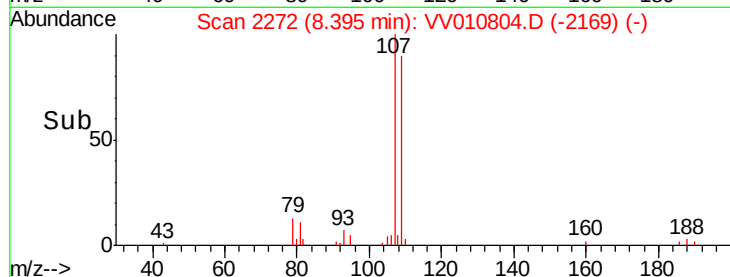
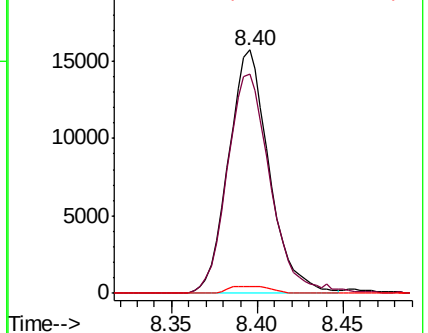
188 2.7 2.7 4.1



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: 24.497 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

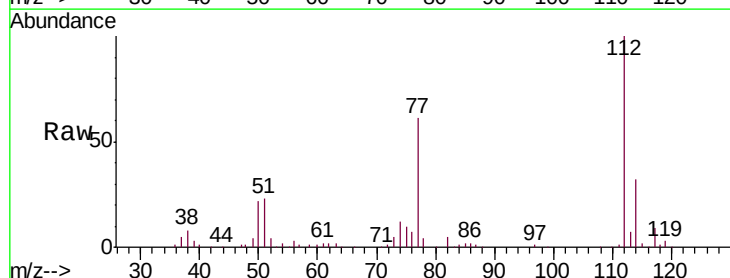
Tgt Ion:112 Resp: 101330

Ion Ratio Lower Upper

112 100

77 61.3 47.7 71.5

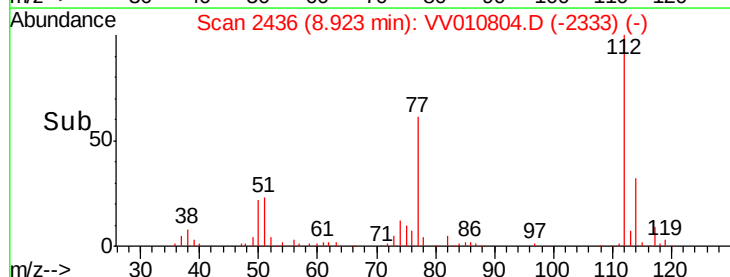
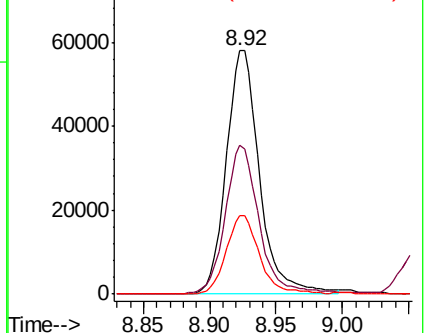
114 32.2 22.1 41.1

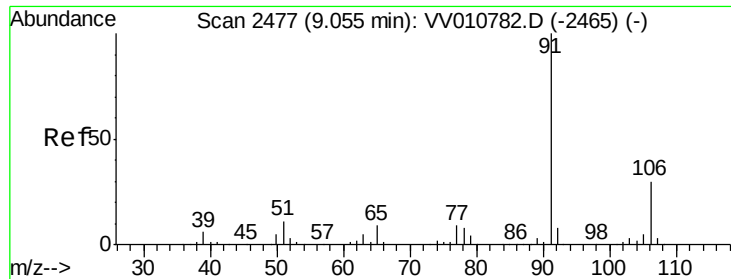


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.977 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

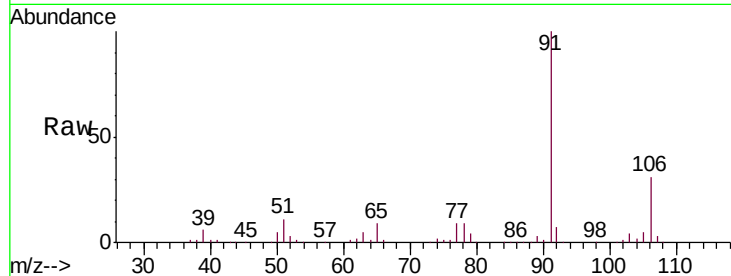
VSTD02593

Tgt Ion: 91 Resp: 183359

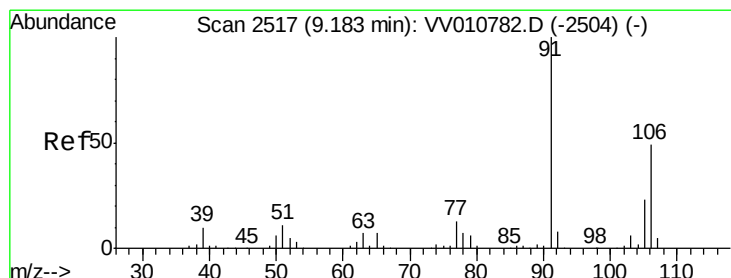
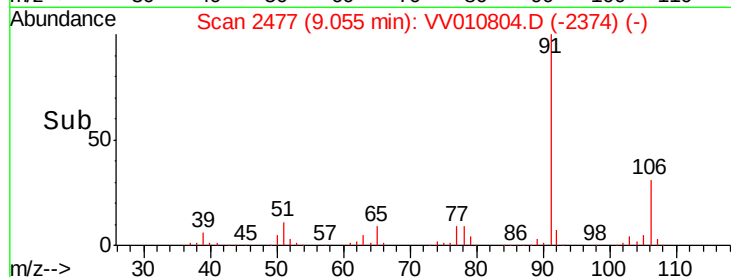
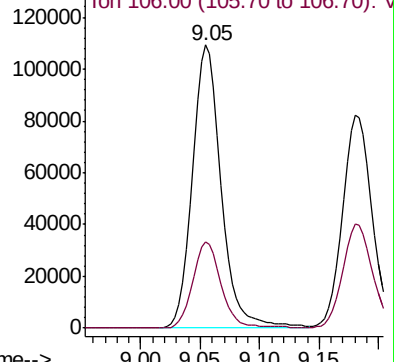
Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV010782.D (-2465) (-)



#54

m,p-Xylene

Concen: 25.029 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010804.D

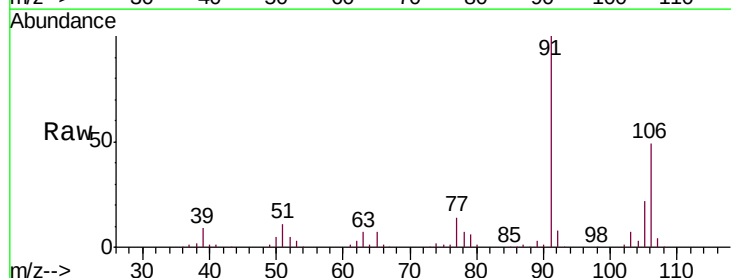
Acq: 10 May 2019 09:19

Tgt Ion: 106 Resp: 68649

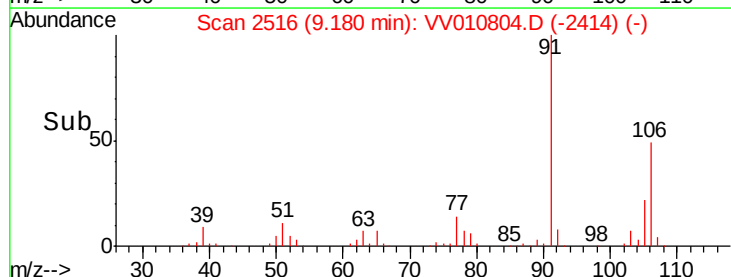
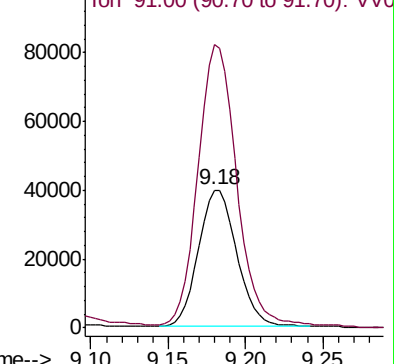
Ion Ratio Lower Upper

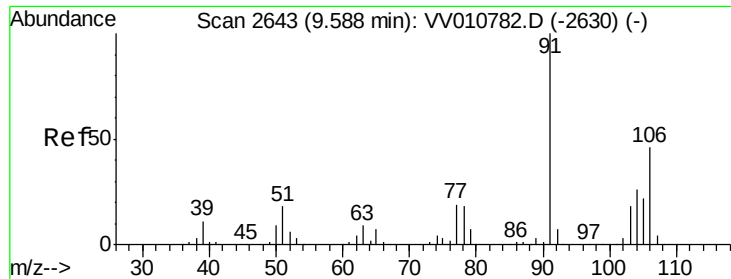
106 100

91 205.3 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): VV010782.D (-2504) (-)





#55

o-xylene

Concen: 24.895 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

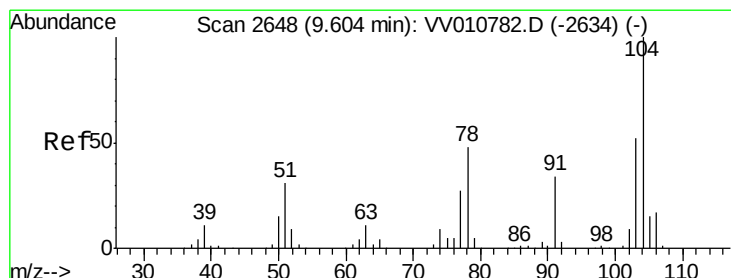
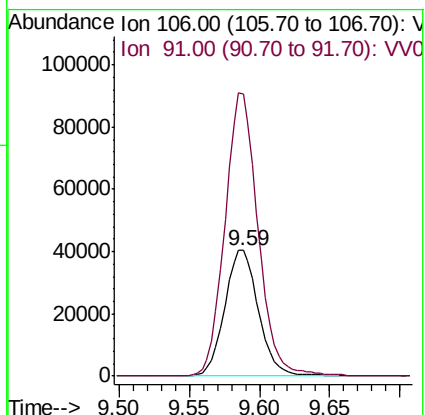
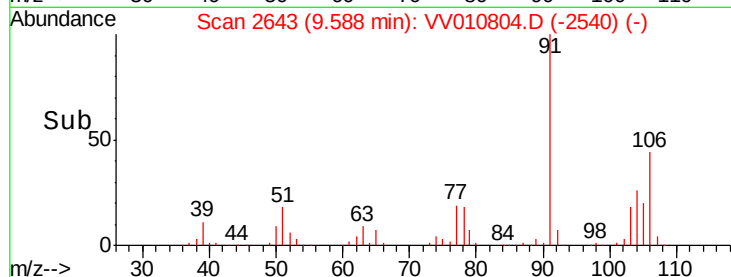
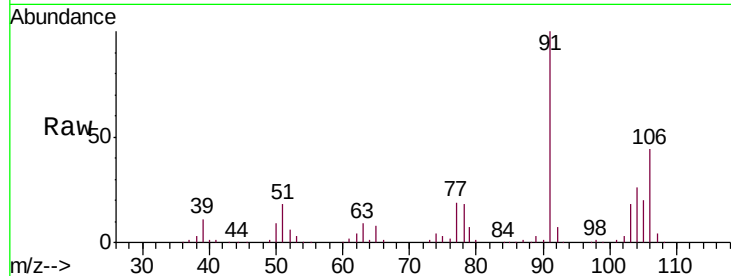
VSTD02593

Tgt Ion:106 Resp: 67726

Ion Ratio Lower Upper

106 100

91 224.9 151.0 280.4



#56

Styrene

Concen: 24.850 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV010804.D

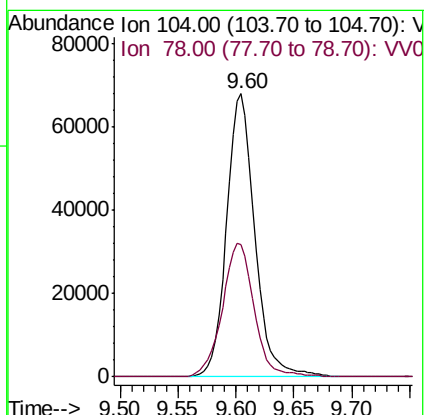
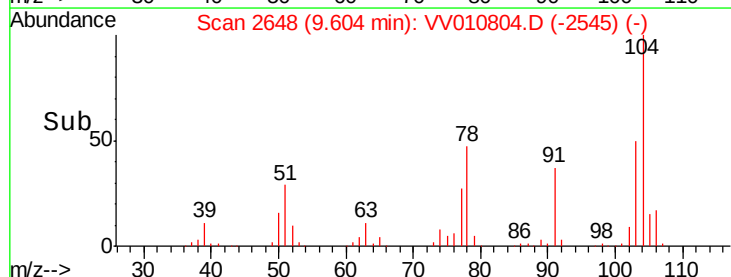
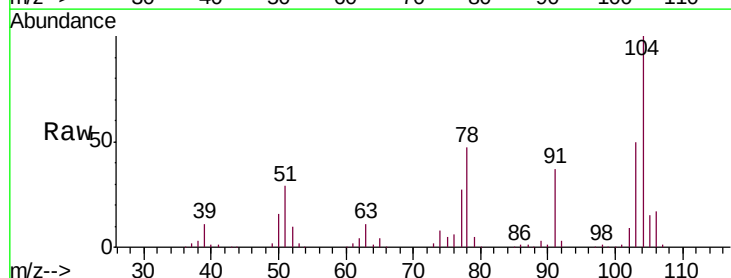
Acq: 10 May 2019 09:19

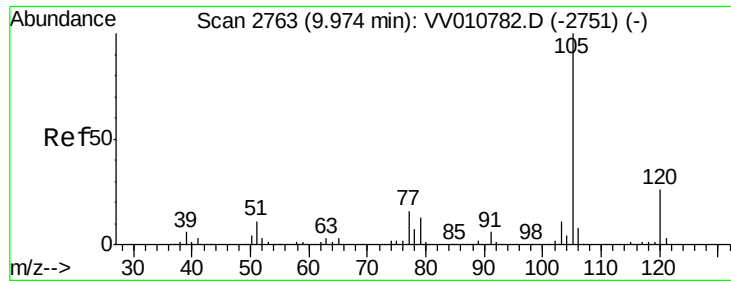
Tgt Ion:104 Resp: 114341

Ion Ratio Lower Upper

104 100

78 46.9 32.2 59.8





#57

Isopropylbenzene

Concen: 25.156 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

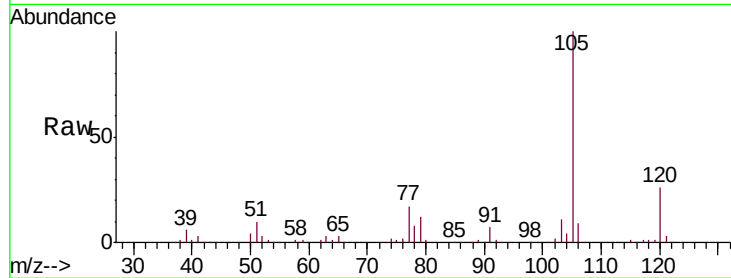
Tgt Ion: 105 Resp: 182593

Ion Ratio Lower Upper

105 100

120 26.0 20.9 31.3

77 17.0 12.8 19.2

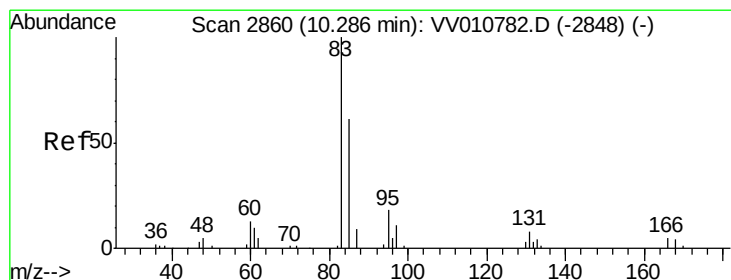
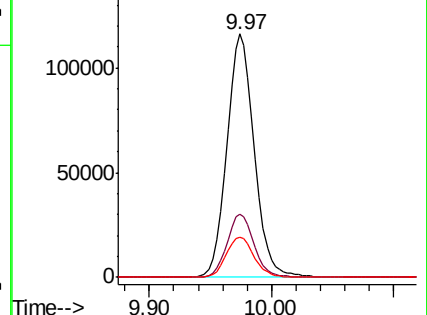
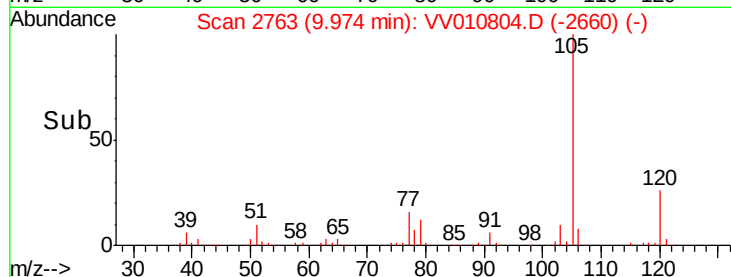


Abundance

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: 21.631 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

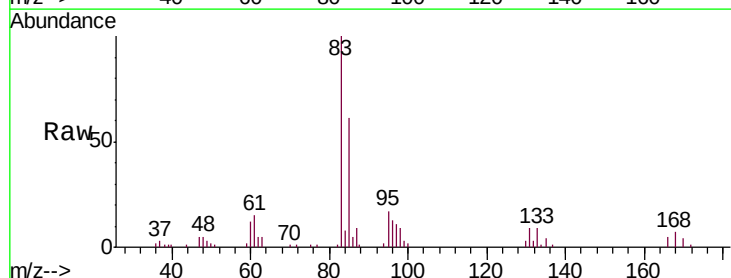
Tgt Ion: 83 Resp: 34526

Ion Ratio Lower Upper

83 100

85 60.8 44.6 82.8

131 9.4 7.9 11.9

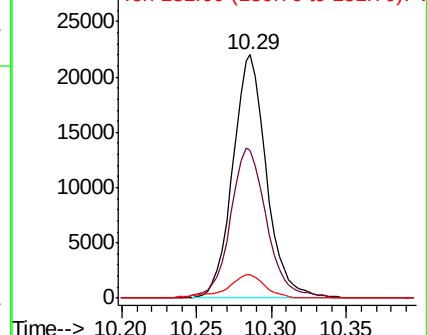
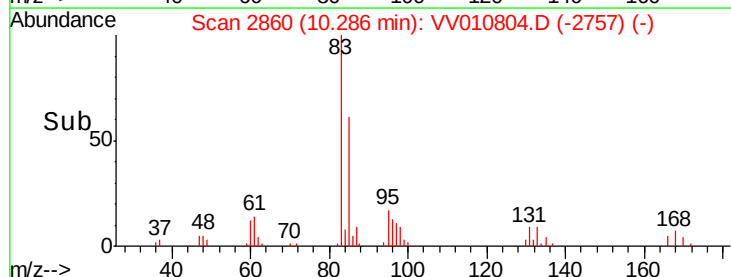


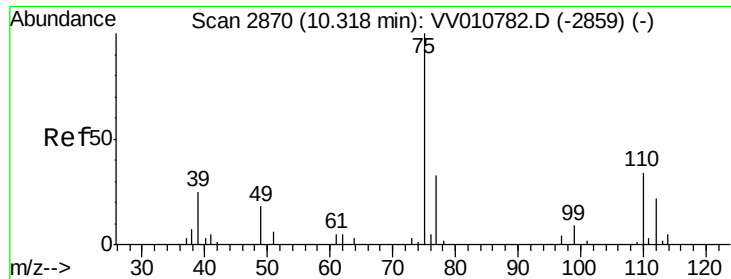
Abundance

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

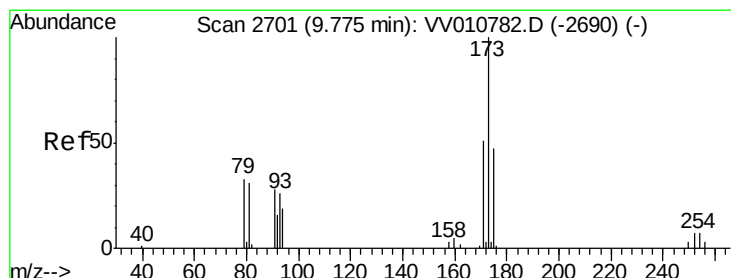
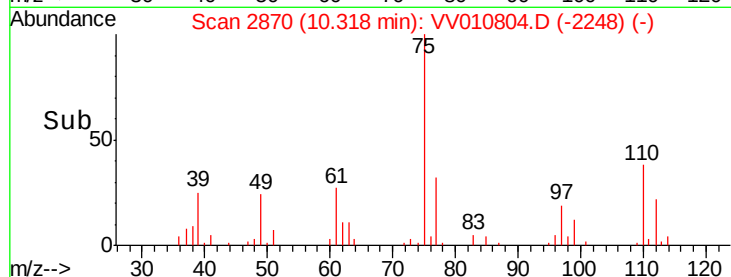
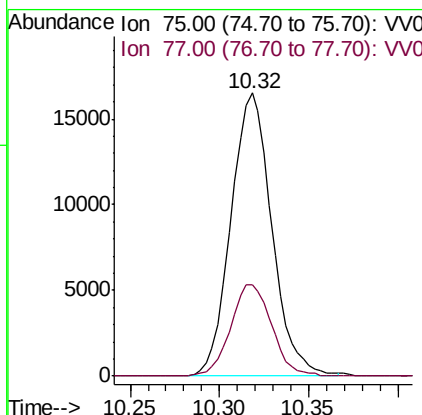
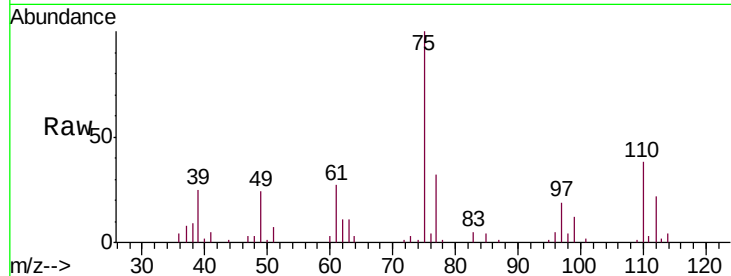




#59
 1,2,3-Trichloropropane
 Concen: 21.129 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

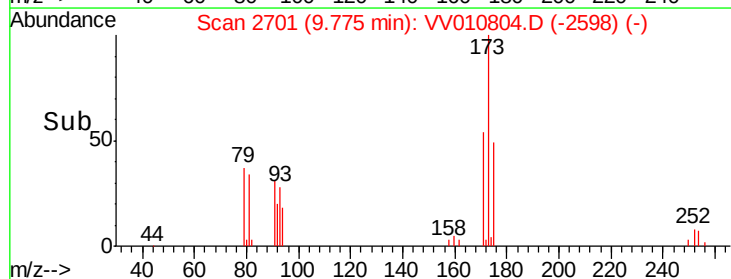
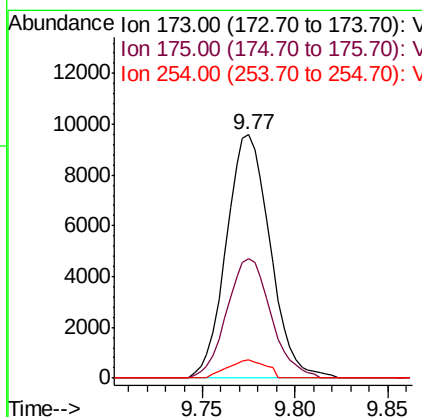
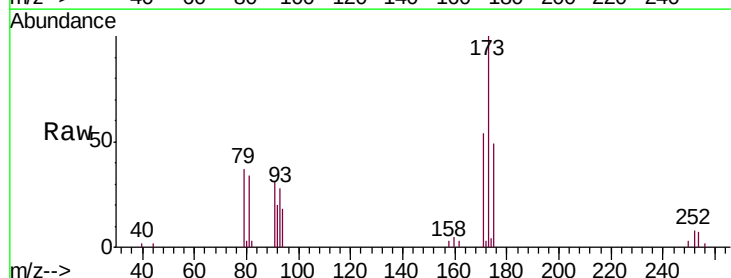
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02593

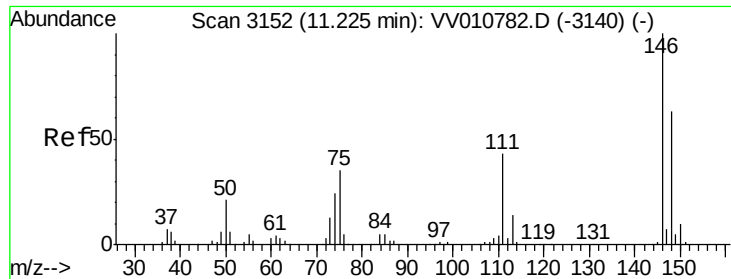
Tgt Ion: 75 Resp: 26321
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.0 37.6



#62
 Bromoform
 Concen: 20.319 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

Tgt Ion: 173 Resp: 15757
 Ion Ratio Lower Upper
 173 100
 175 49.6 38.6 58.0
 254 6.6 6.5 9.7

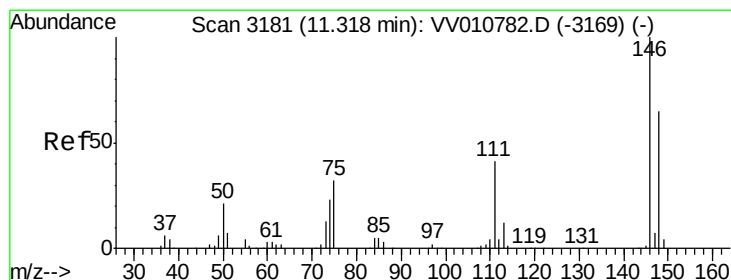
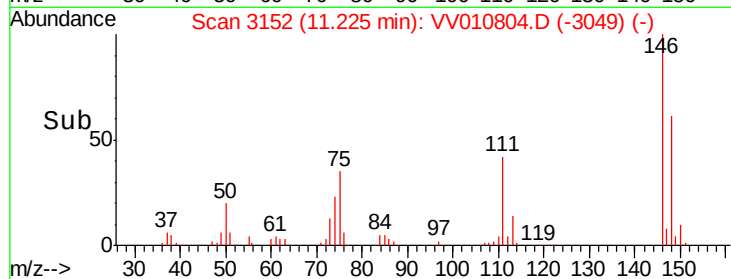
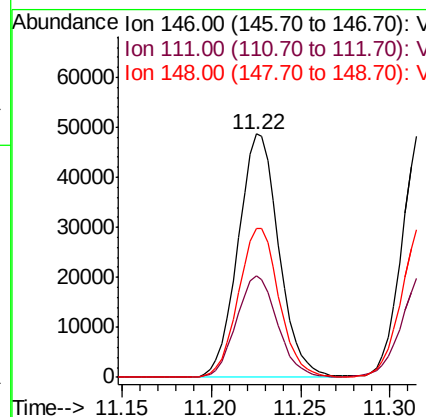
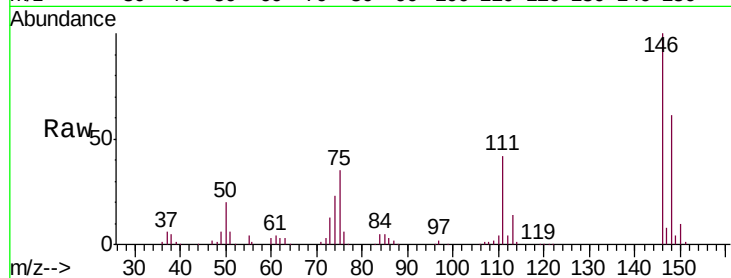




#63
 1,3-Dichlorobenzene
 Concen: 24.545 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

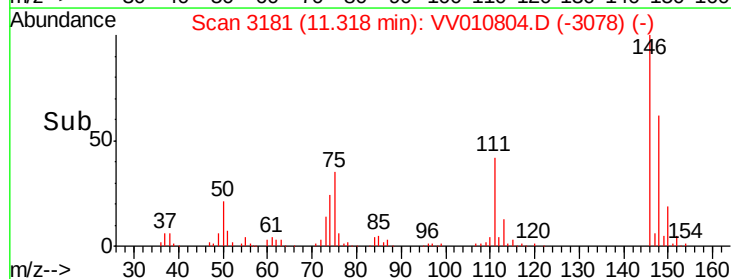
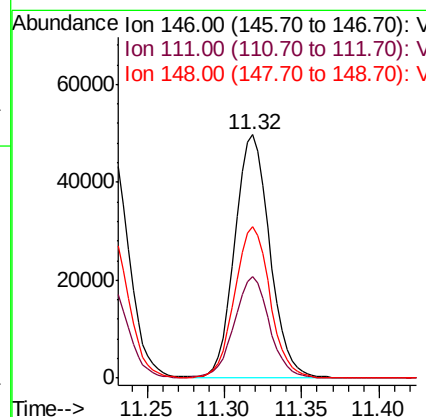
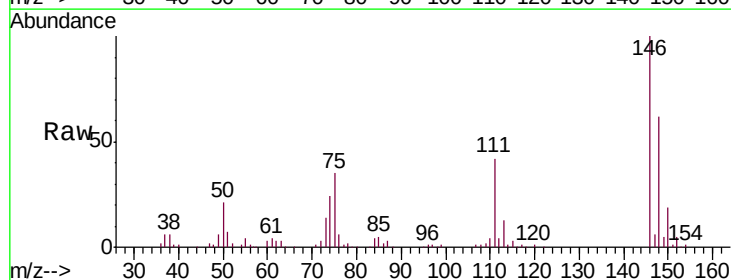
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02593

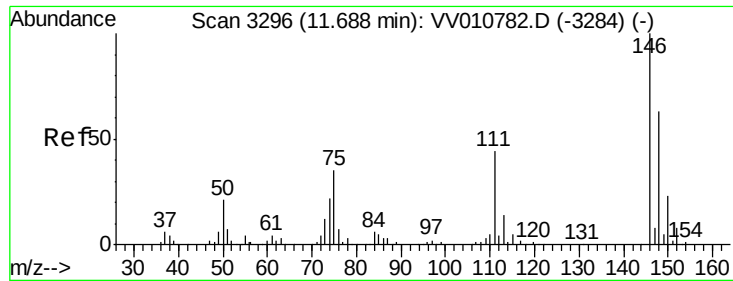
Tgt Ion:146 Resp: 77809
 Ion Ratio Lower Upper
 146 100
 111 41.8 30.6 56.8
 148 61.1 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 24.152 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

Tgt Ion:146 Resp: 78207
 Ion Ratio Lower Upper
 146 100
 111 41.5 27.4 50.8
 148 62.0 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 23.875 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

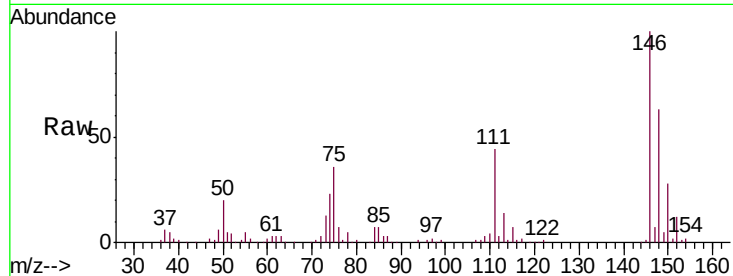
Tgt Ion:146 Resp: 73509

Ion Ratio Lower Upper

146 100

111 43.6 37.0 55.4

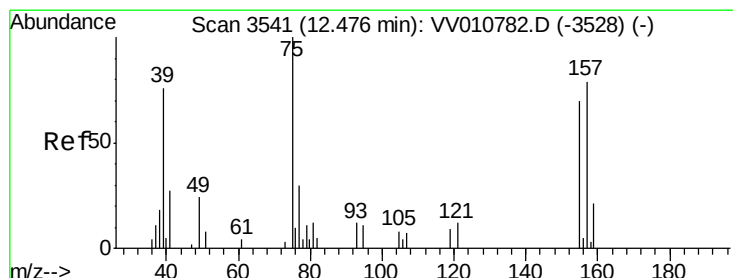
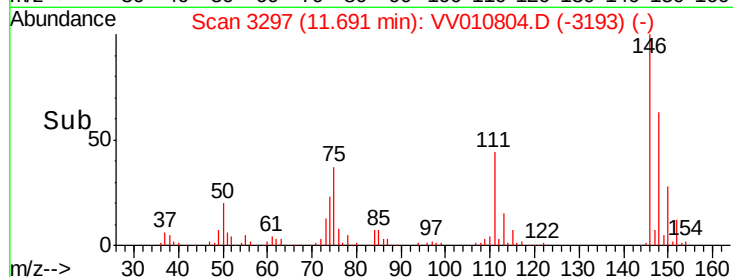
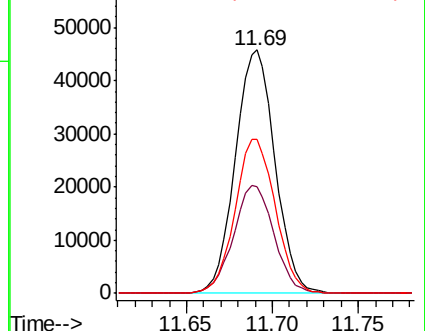
148 63.1 51.3 76.9



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: 18.537 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

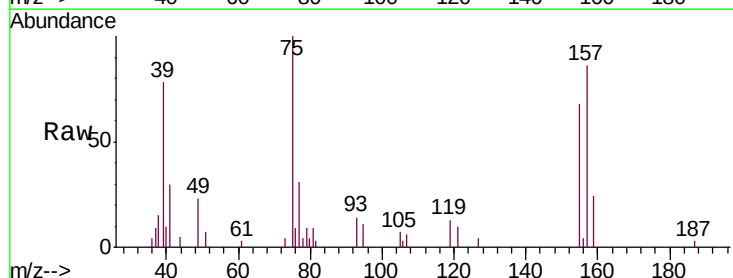
Tgt Ion: 75 Resp: 5296

Ion Ratio Lower Upper

75 100

157 86.0 76.9 115.3

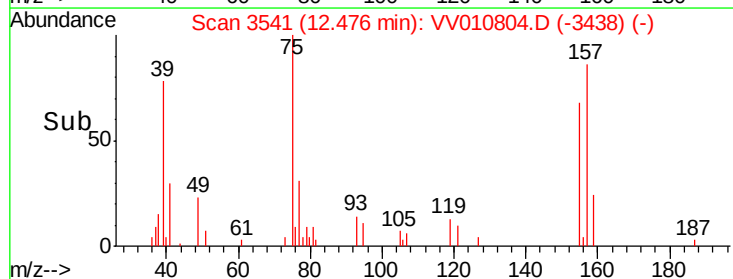
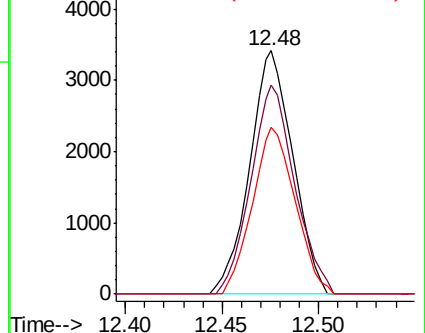
155 68.3 57.9 86.9

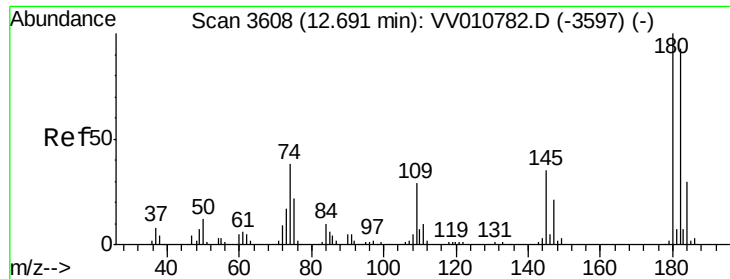


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

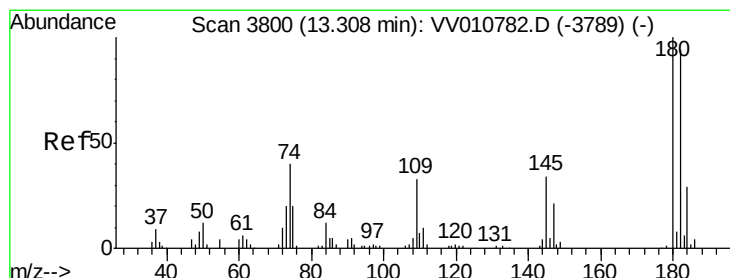
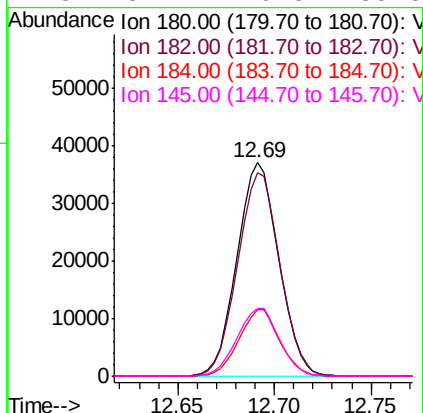
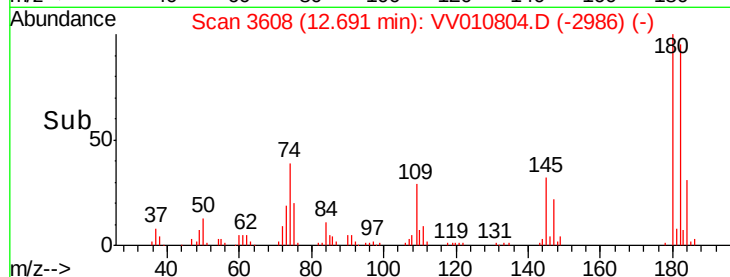
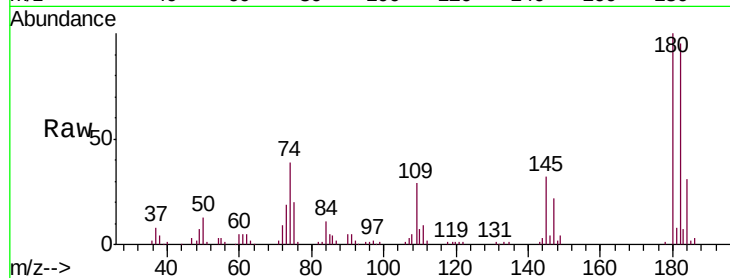




#67
 1,3,5-Trichlorobenzene
 Concen: 24.345 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

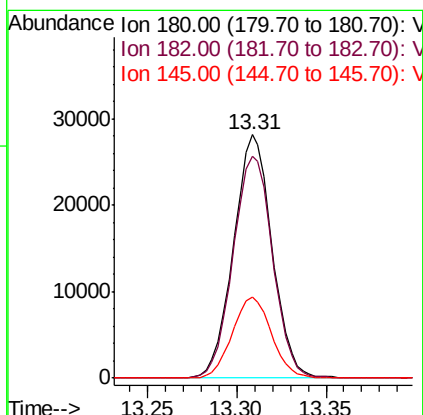
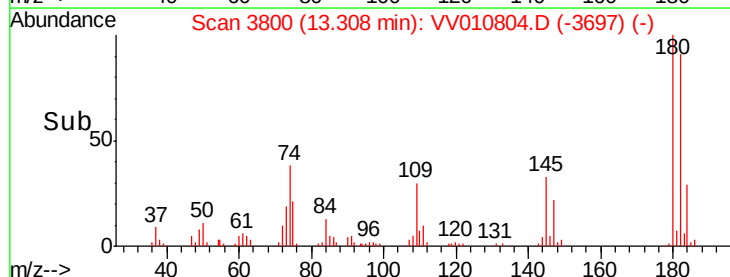
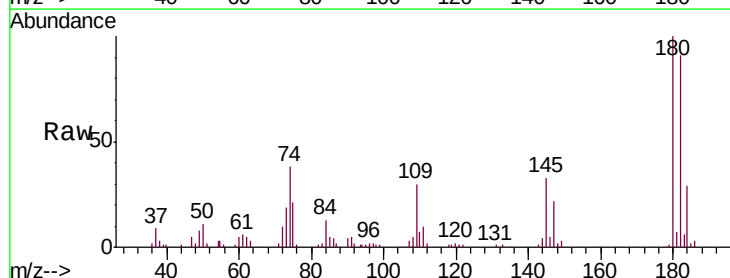
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02593

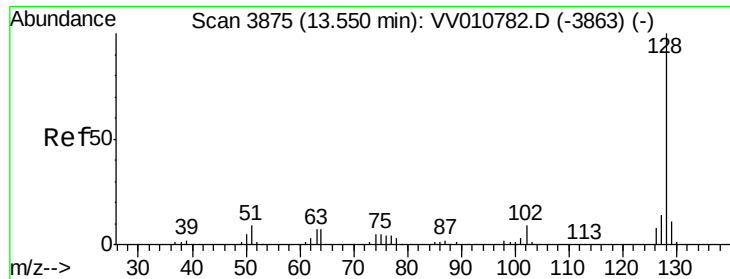
Tgt Ion:180 Resp: 55593
 Ion Ratio Lower Upper
 180 100
 182 96.5 74.7 112.1
 184 30.4 23.7 35.5
 145 32.4 26.0 39.0



#68
 1,2,4-trichlorobenzene
 Concen: 24.001 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010804.D
 Acq: 10 May 2019 09:19

Tgt Ion:180 Resp: 42406
 Ion Ratio Lower Upper
 180 100
 182 93.6 77.1 115.7
 145 33.7 28.3 42.5





#69

Naphthalene

Concen: 19.961 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

Instrument :

MSVOA_V

ClientSampleId :

VSTD02593

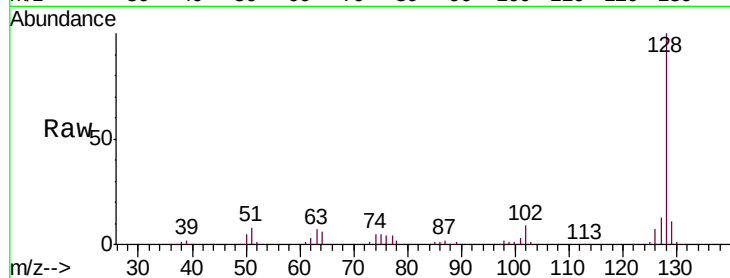
Tgt Ion:128 Resp: 75490

Ion Ratio Lower Upper

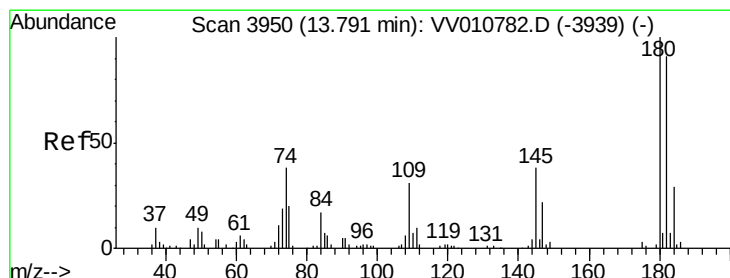
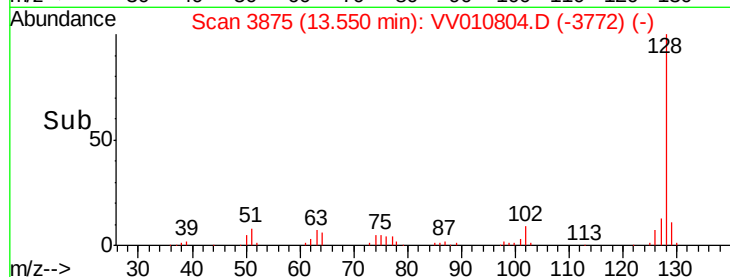
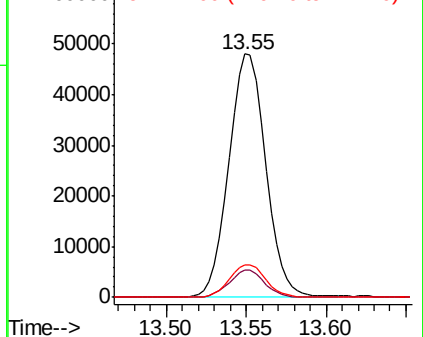
128 100

129 10.7 8.3 12.5

127 13.1 10.8 16.2



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: 23.790 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV010804.D

Acq: 10 May 2019 09:19

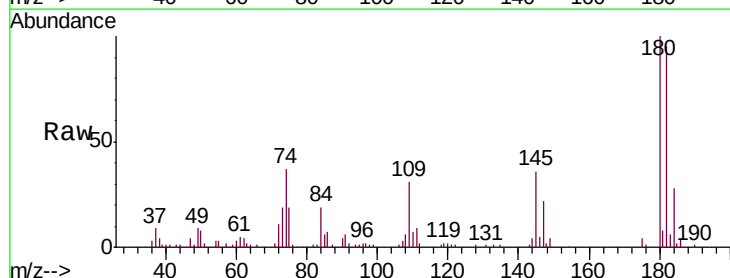
Tgt Ion:180 Resp: 39429

Ion Ratio Lower Upper

180 100

182 95.1 74.3 111.5

145 34.9 28.5 42.7



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

