

Data File : VV009026.D
Acq On : 18 Dec 2018 20:57
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02565

Quant Time: Dec 19 06:23:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 19 06:18:48 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	259224	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	239227	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	110000	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	58663	21.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.48%
7) Chloroethane-d5	1.58	69	54504	27.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.00%
10) 1,1-Dichloroethene-d2	2.13	63	158712	23.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.64%
20) 2-Butanone-d5	3.94	46	46317	47.42	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.84%
24) Chloroform-d	4.40	84	153011	24.55	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.08	65	87978	25.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.48%
29) Benzene-d6	5.10	84	302798	22.66	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.64%
33) 1,2-Dichloropropane-d6	6.12	67	89853	24.02	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.08%
37) Toluene-d8	7.36	98	280125	22.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.64%
38) trans-1,3-Dichloropropene-	7.66	79	41012	24.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.80%
39) 2-Hexanone-d5	8.13	63	29236	42.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	85.32%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	74286	23.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.68%
61) 1,2-Dichlorobenzene-d4	11.67	152	95108	23.04	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	83787	19.718	ug/L 100
3) Chloromethane	1.25	50	66075	22.629	ug/L 99
5) Vinyl chloride	1.32	62	70655	21.675	ug/L 100
6) Bromomethane	1.53	94	44853	28.619	ug/L 100
8) Chloroethane	1.60	64	54035	29.597	ug/L 100
9) Trichlorofluoromethane	1.77	101	146455	26.231	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	88393	23.083	ug/L 99
12) 1,1-Dichloroethene	2.14	96	76707	22.955	ug/L 97
13) Acetone	2.20	43	54819	38.097	ug/L 99
14) Carbon disulfide	2.32	76	231750	21.598	ug/L 100
15) Methyl Acetate	2.46	43	42048	23.045	ug/L 99
16) Methylene chloride	2.53	84	89073	20.405	ug/L 97
17) Methyl tert-butyl Ether	2.80	73	194066	25.563	ug/L 97
18) trans-1,2-Dichloroethene	2.79	96	83772	23.200	ug/L 99
19) 1,1-Dichloroethane	3.23	63	141905	24.243	ug/L 99
21) 2-Butanone	4.02	43	63007	46.719	ug/L 93
22) cis-1,2-Dichloroethene	3.96	96	92747	24.634	ug/L 97

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Quant Title : VOC Analysis
QLast Update : Wed Dec 19 06:18:48 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	45171	25.456	ug/L	97
25) Chloroform	4.43	83	157516	25.074	ug/L	99
27) 1,2-Dichloroethane	5.18	62	108291	25.306	ug/L	100
30) Cyclohexane	4.73	56	124654	20.693	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	135649	21.993	ug/L	100
32) Carbon tetrachloride	4.88	117	121101	21.506	ug/L	98
34) Benzene	5.15	78	324494	22.640	ug/L	100
35) Trichloroethene	5.96	95	97968	22.672	ug/L	99
36) Methylcyclohexane	6.18	83	144666	20.992	ug/L	98
40) 1,2-Dichloropropane	6.22	63	80497	23.401	ug/L	100
41) Bromodichloromethane	6.56	83	111620	24.619	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	128374	25.490	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	95328	41.001	ug/L	100
44) Toluene	7.43	91	347954	23.149	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	108479	24.709	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	68642	23.949	ug/L	98
47) Tetrachloroethene	8.02	164	75526	21.493	ug/L	98
49) 2-Hexanone	8.19	43	78207	40.659	ug/L	98
50) Dibromochloromethane	8.29	129	84729	25.789	ug/L	100
51) 1,2-Dibromoethane	8.40	107	69642	24.196	ug/L	98
52) Chlorobenzene	8.93	112	232877	23.794	ug/L	99
53) Ethylbenzene	9.06	91	378438	23.208	ug/L	98
54) m,p-Xylene	9.18	106	146599	23.743	ug/L	98
55) o-xylene	9.59	106	138715	24.181	ug/L	96
56) Styrene	9.60	104	228142	24.653	ug/L	97
57) Isopropylbenzene	9.98	105	368493	23.634	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	73009	23.562	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	62029	23.136	ug/L	99
62) Bromoform	9.78	173	48649	24.495	ug/L	97
63) 1,3-Dichlorobenzene	11.23	146	166062	23.428	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	169876	23.290	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	154736	23.680	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	11814	22.068	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	110906	21.663	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	83180	23.187	ug/L	99
69) Naphthalene	13.55	128	144554	23.395	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	76465	23.074	ug/L	99

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

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ClientSampleId :
VSTD02565

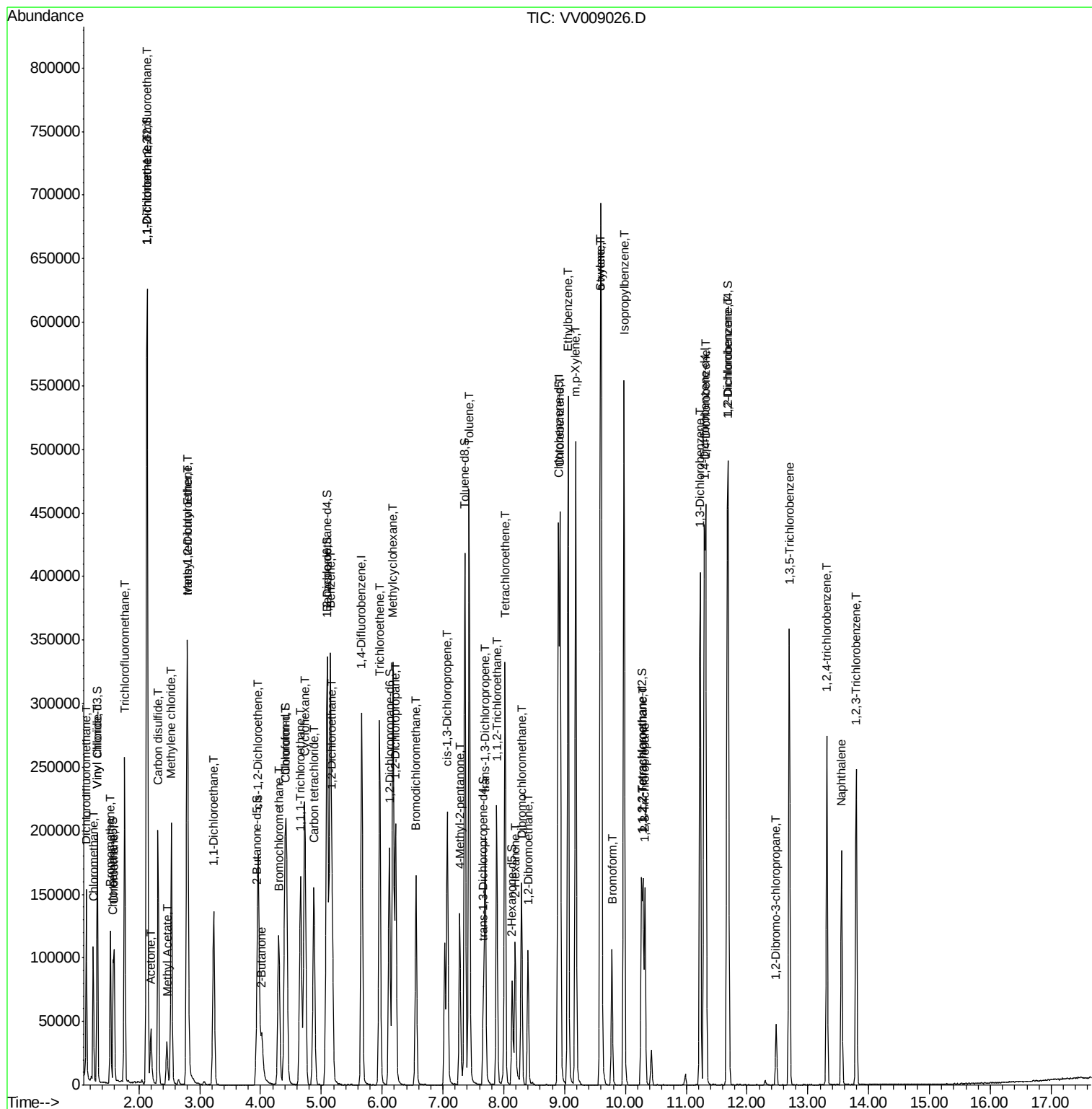
Quant Time: Dec 19 06:23:53 2018

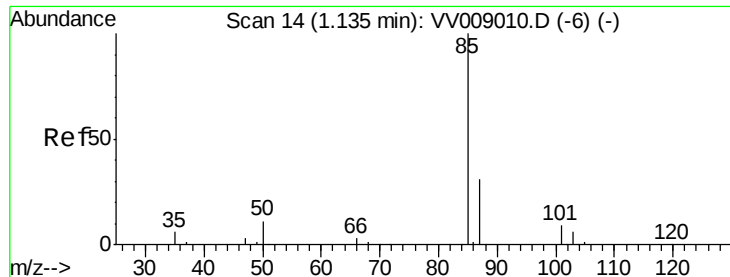
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM120618S.M

Quant Title : VOC Analysis

QLast Update : Wed Dec 19 06:18:48 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 19.718 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

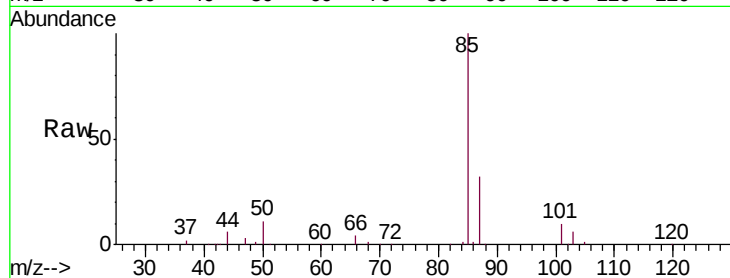
VSTD02565

Tgt Ion: 85 Resp: 83787

Ion Ratio Lower Upper

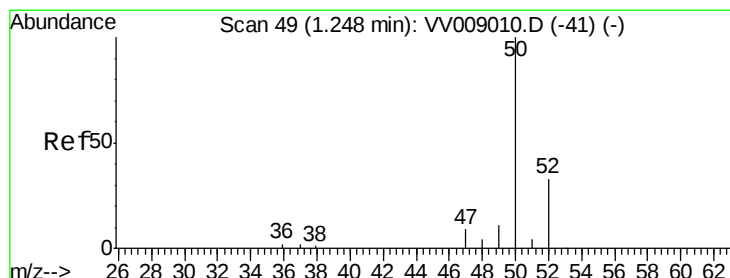
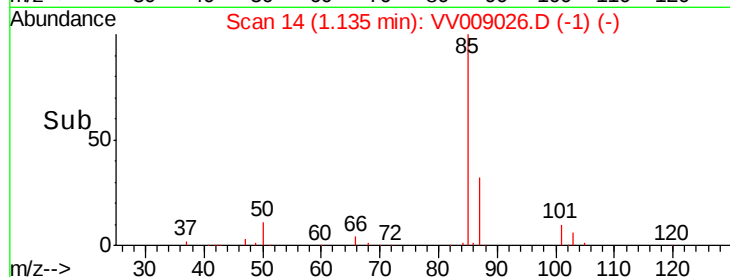
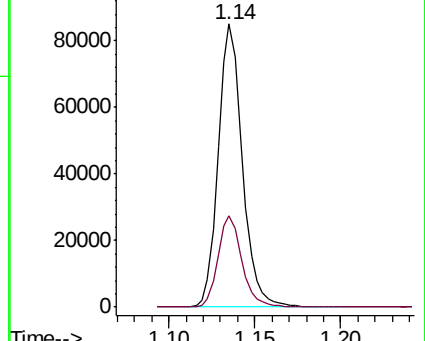
85 100

87 31.8 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009010.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV009010.D (-6) (-)



#3

Chloromethane

Concen: 22.629 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV009026.D

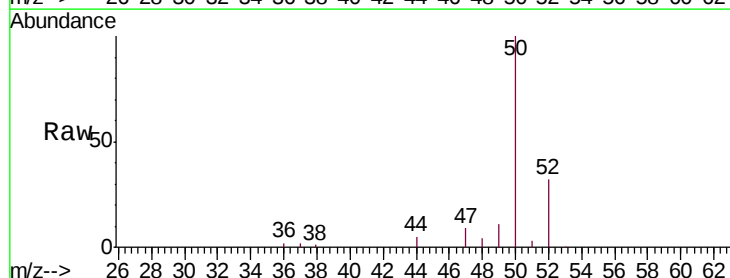
Acq: 18 Dec 2018 20:57

Tgt Ion: 50 Resp: 66075

Ion Ratio Lower Upper

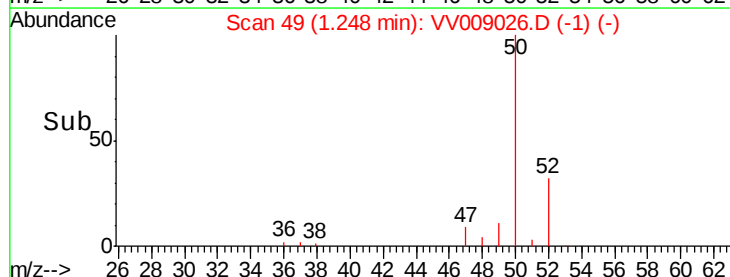
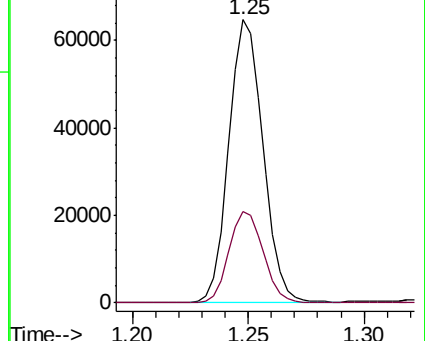
50 100

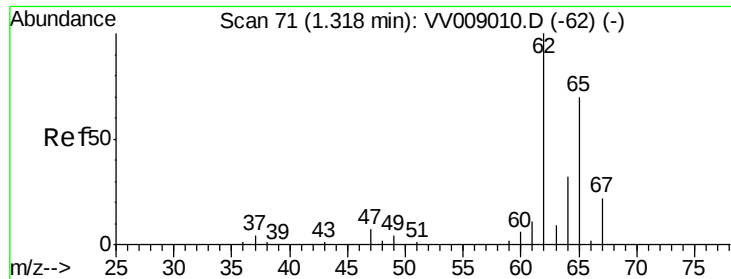
52 32.4 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV009010.D (-41) (-)

Ion 52.00 (51.70 to 52.70): VV009010.D (-41) (-)





#5

Vinyl chloride

Concen: 21.675 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

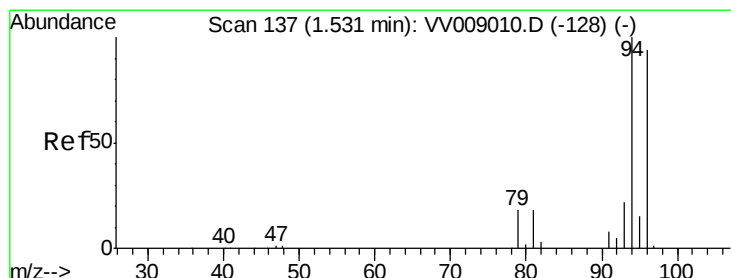
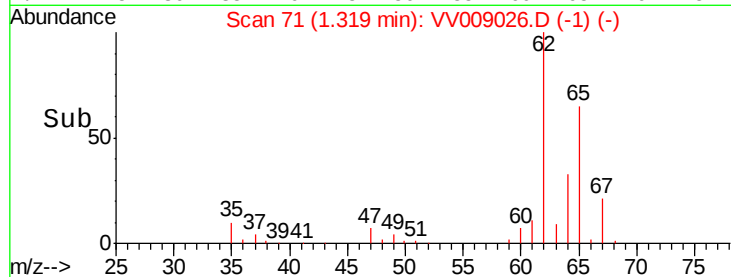
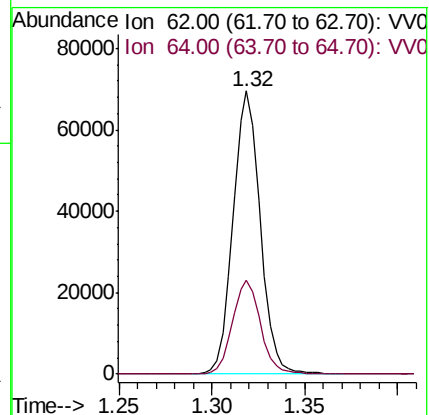
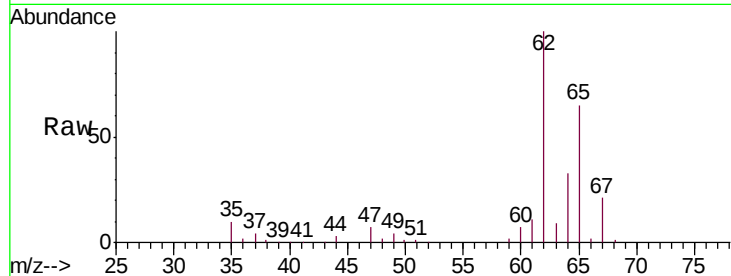
Instrument :
MSVOA_V
ClientSampleId :
VSTD02565

Tgt Ion: 62 Resp: 70655

Ion Ratio Lower Upper

62 100

64 33.3 23.3 43.3



#6

Bromomethane

Concen: 28.619 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV009026.D

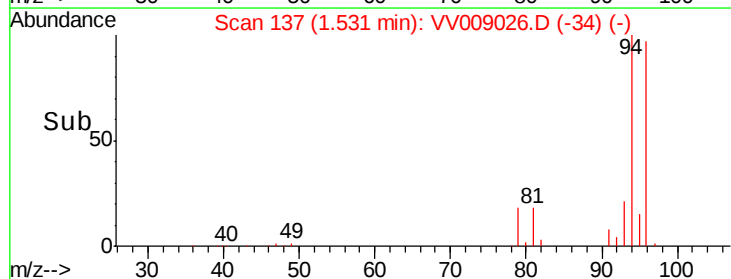
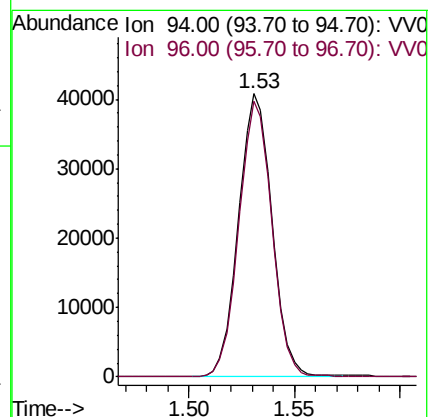
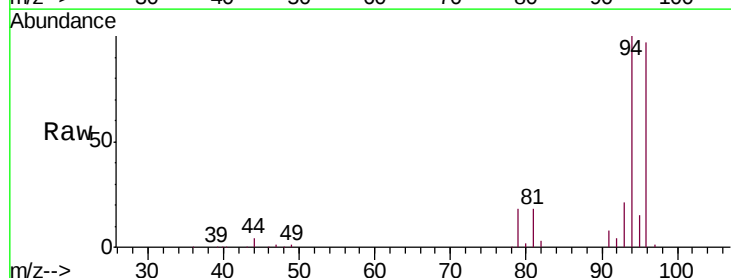
Acq: 18 Dec 2018 20:57

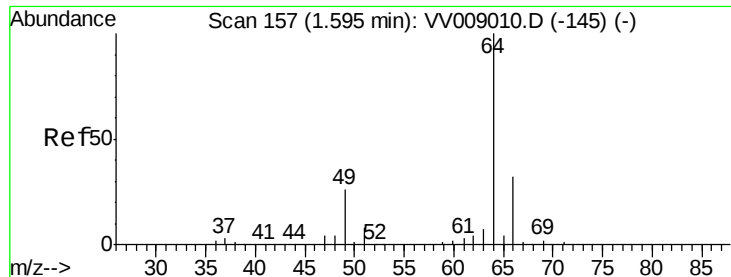
Tgt Ion: 94 Resp: 44853

Ion Ratio Lower Upper

94 100

96 95.6 9.5 180.9





#8

Chloroethane

Concen: 29.597 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

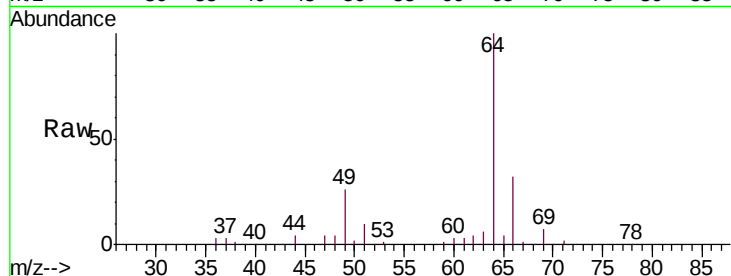
VSTD02565

Tgt Ion: 64 Resp: 54035

Ion Ratio Lower Upper

64 100

66 31.6 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV009010.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV009010.D (-145) (-)

1.60

50000

40000

30000

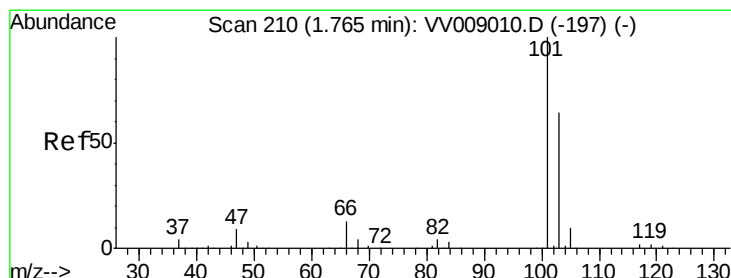
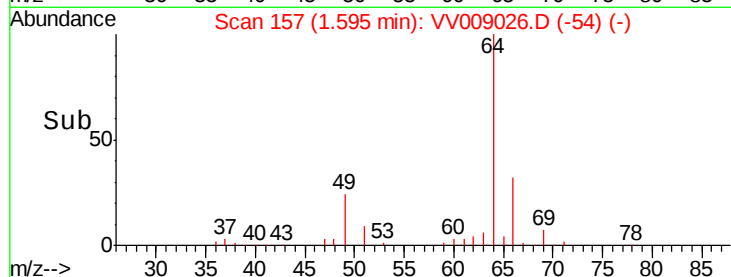
20000

10000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 26.231 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009026.D

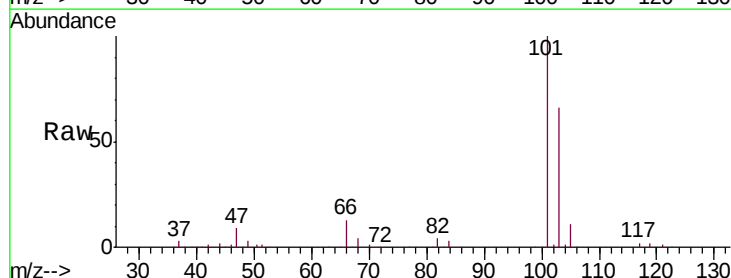
Acq: 18 Dec 2018 20:57

Tgt Ion: 101 Resp: 146455

Ion Ratio Lower Upper

101 100

103 64.9 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV009010.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV009010.D (-197) (-)

1.77

120000

100000

80000

60000

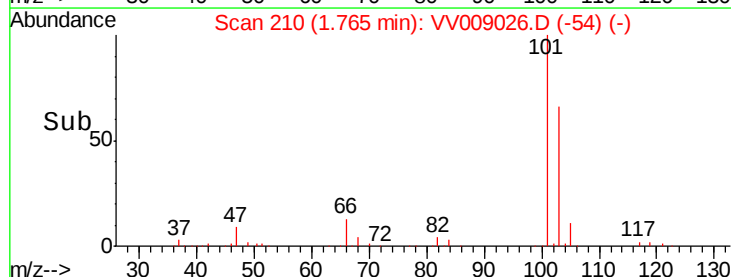
40000

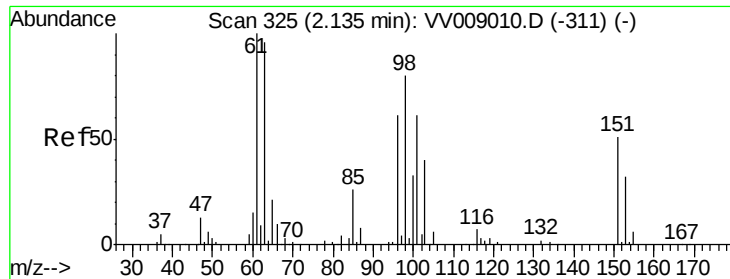
20000

0

1.70 1.75 1.80

Time-->





#11

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

Concen: 23.083 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

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ClientSampleId :

VSTD02565

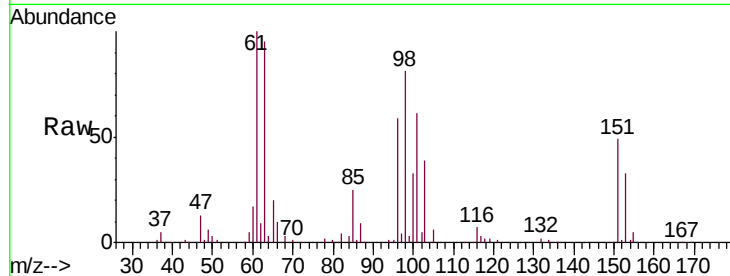
Tgt Ion:101 Resp: 88393

Ion Ratio Lower Upper

101 100

85 41.2 32.5 48.7

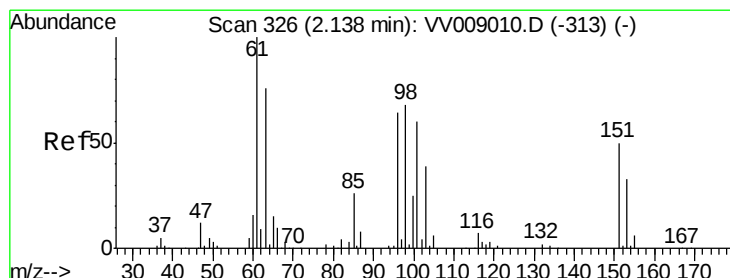
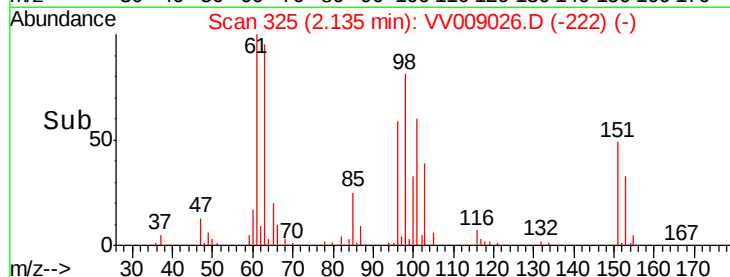
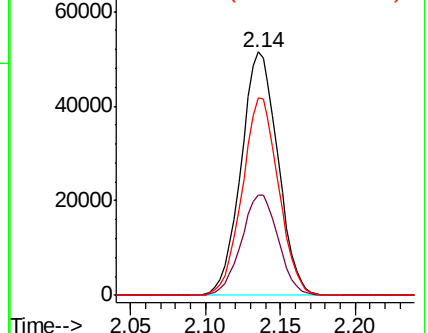
151 79.6 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV009026.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009026.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009026.D (-222) (-)



#12

1,1-Dichloroethene

Concen: 22.955 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

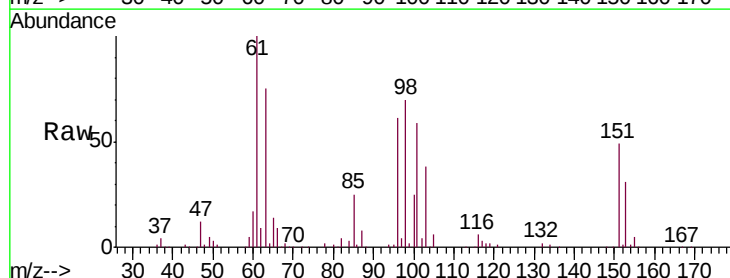
Tgt Ion: 96 Resp: 76707

Ion Ratio Lower Upper

96 100

61 164.5 114.0 211.6

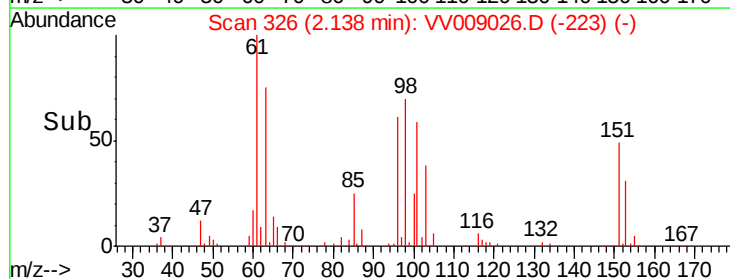
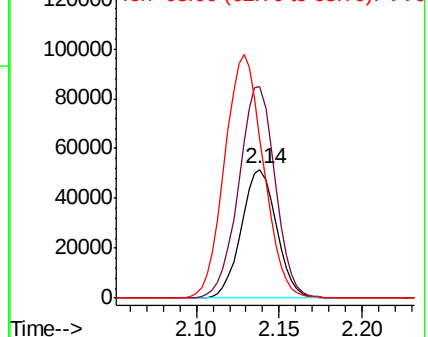
63 123.6 82.4 153.0

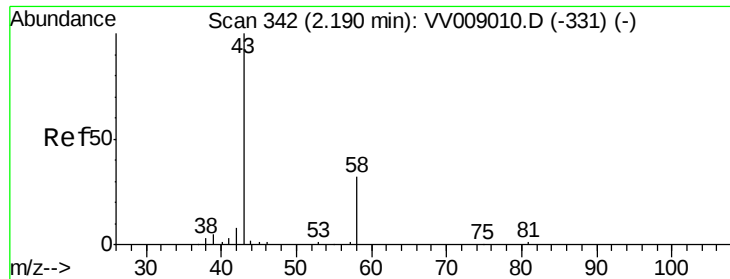


Abundance Ion 96.00 (95.70 to 96.70): VV009026.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009026.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009026.D (-223) (-)





#13

Acetone

Concen: 38.097 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

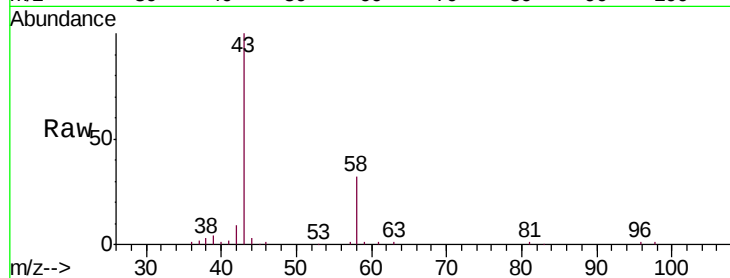
VSTD02565

Tgt Ion: 43 Resp: 54819

Ion Ratio Lower Upper

43 100

58 32.3 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VV009010.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009010.D (-331) (-)

2.20

30000

25000

20000

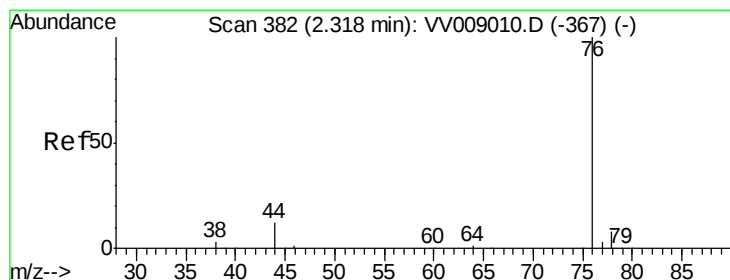
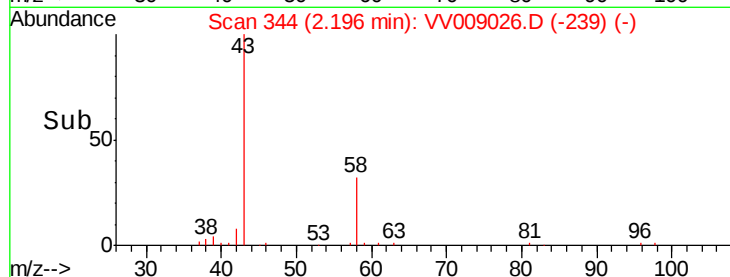
15000

10000

5000

0

Time--> 2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 21.598 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009026.D

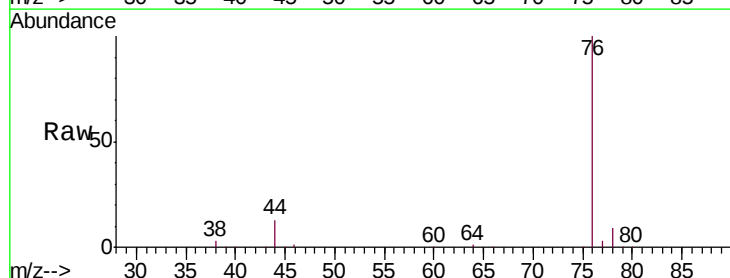
Acq: 18 Dec 2018 20:57

Tgt Ion: 76 Resp: 231750

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV009010.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV009010.D (-367) (-)

2.32

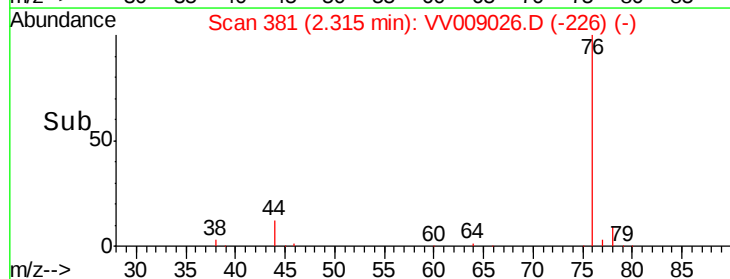
150000

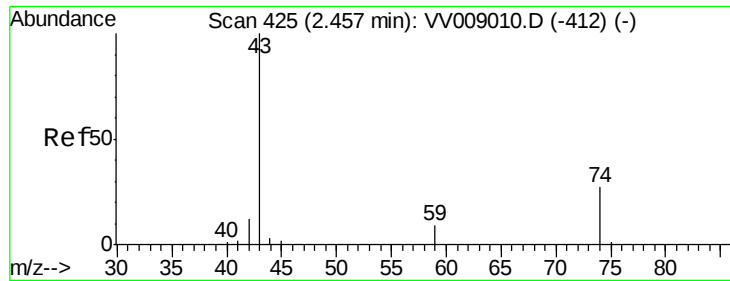
100000

50000

0

Time--> 2.25 2.30 2.35 2.40





#15

Methyl Acetate

Concen: 23.045 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

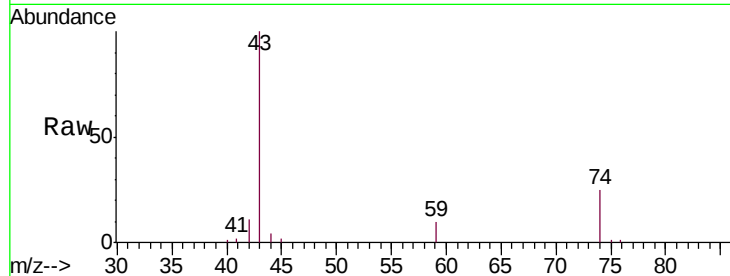
VSTD02565

Tgt Ion: 43 Resp: 42048

Ion Ratio Lower Upper

43 100

74 24.0 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VV009010.D (-412) (-)

Ion 74.00 (73.70 to 74.70): VV009010.D (-412) (-)

2.46

25000

20000

15000

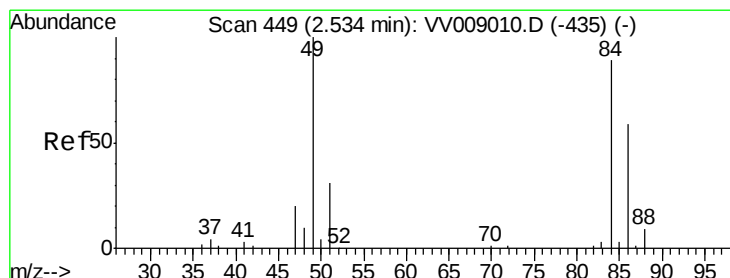
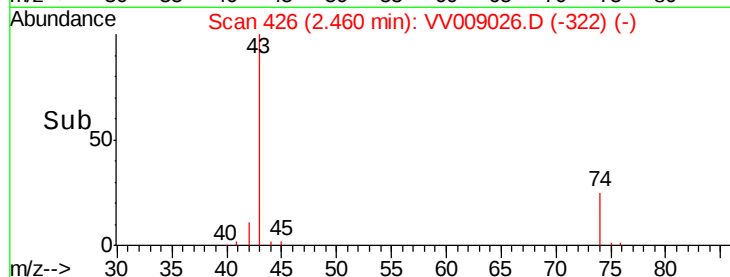
10000

5000

0

Time-->

2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 20.405 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

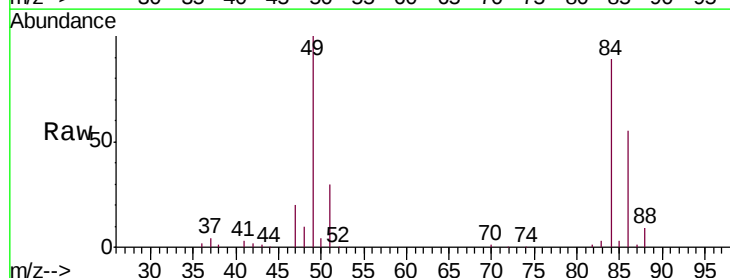
Tgt Ion: 84 Resp: 89073

Ion Ratio Lower Upper

84 100

49 112.3 80.5 149.5

86 62.3 45.5 84.5



Abundance Ion 84.00 (83.70 to 84.70): VV009010.D (-435) (-)

Ion 49.00 (48.70 to 49.70): VV009010.D (-435) (-)

Ion 86.00 (85.70 to 86.70): VV009010.D (-435) (-)

2.53

80000

60000

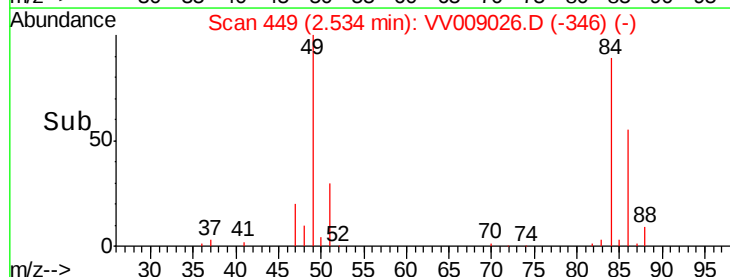
40000

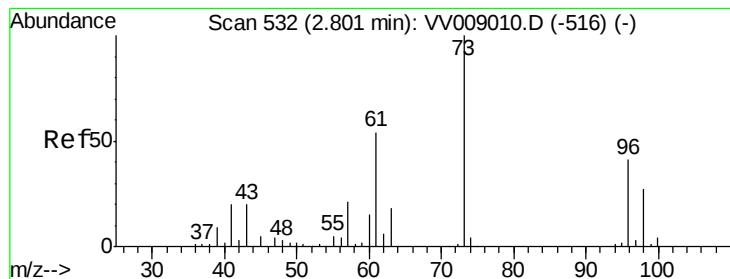
20000

0

Time-->

2.45 2.50 2.55 2.60



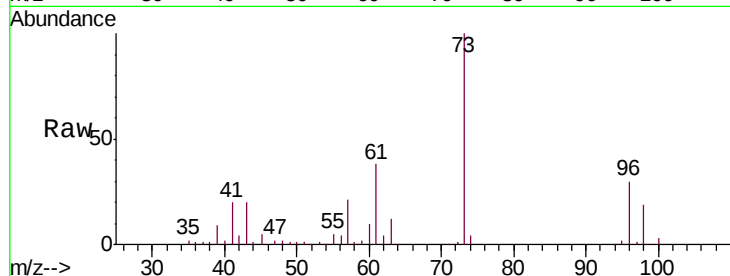


#17

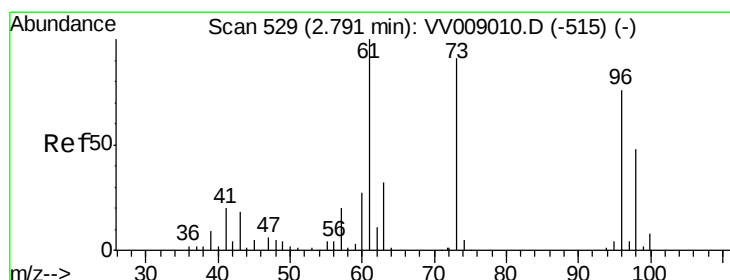
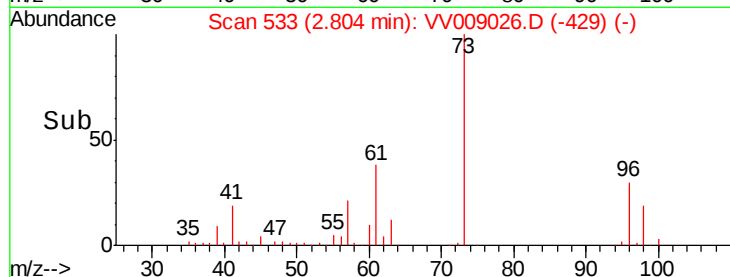
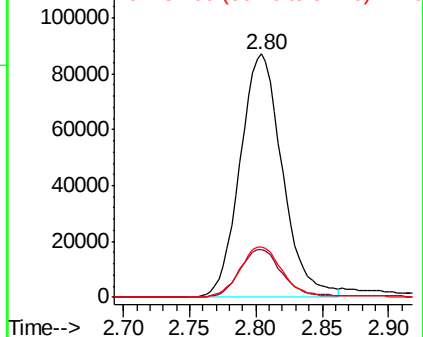
Methyl tert-butyl Ether
 Concen: 25.563 ug/L
 RT: 2.80 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02565

Tgt Ion: 73 Resp: 194066
 Ion Ratio Lower Upper
 73 100
 43 20.3 14.9 22.3
 57 20.8 16.0 24.0



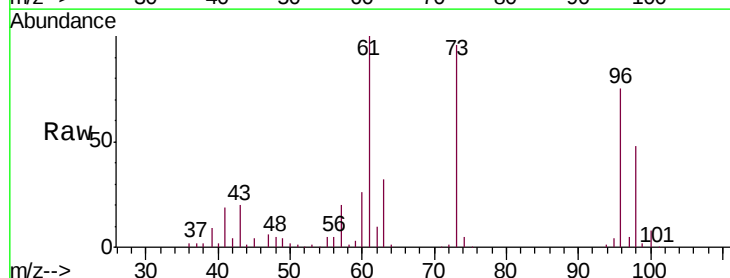
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



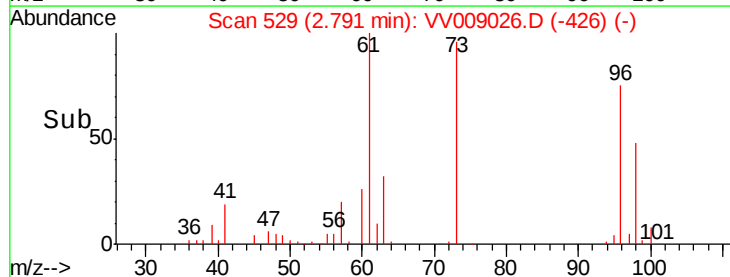
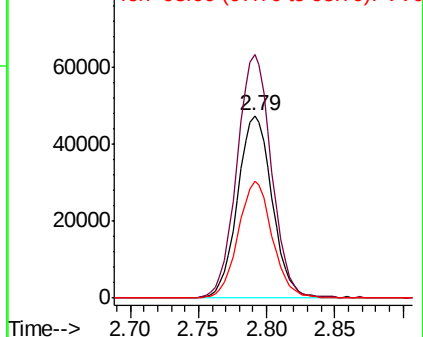
#18

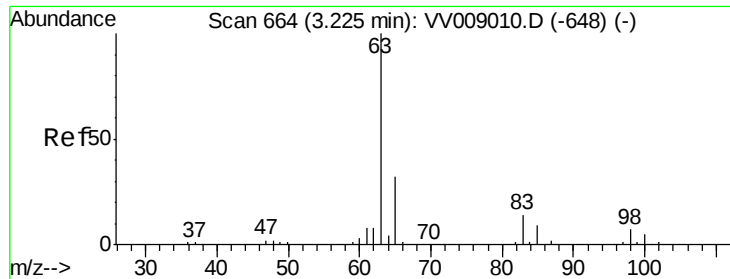
trans-1,2-Dichloroethene
 Concen: 23.200 ug/L
 RT: 2.79 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion: 96 Resp: 83772
 Ion Ratio Lower Upper
 96 100
 61 133.5 94.6 175.8
 98 63.9 45.3 84.1



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

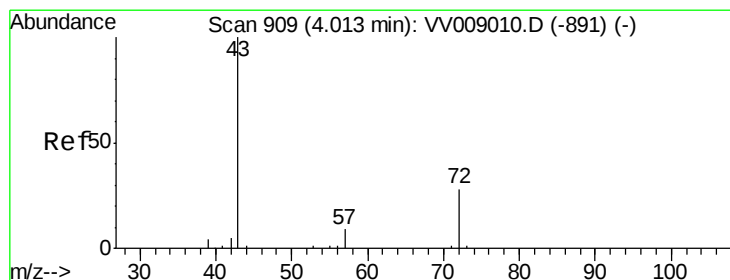
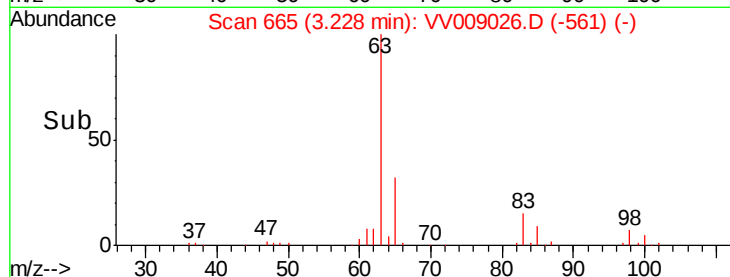
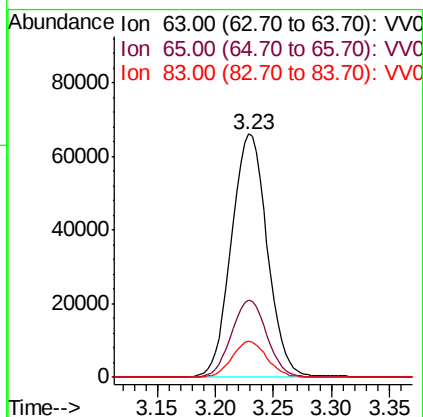
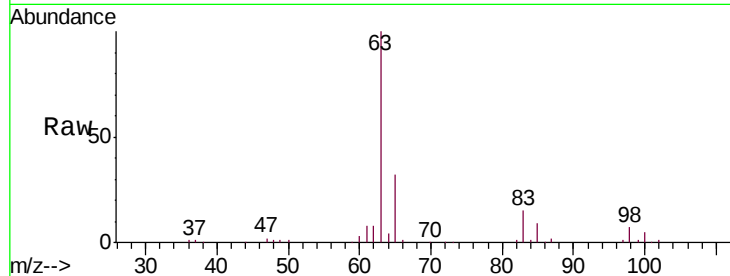




#19
 1,1-Dichloroethane
 Concen: 24.243 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

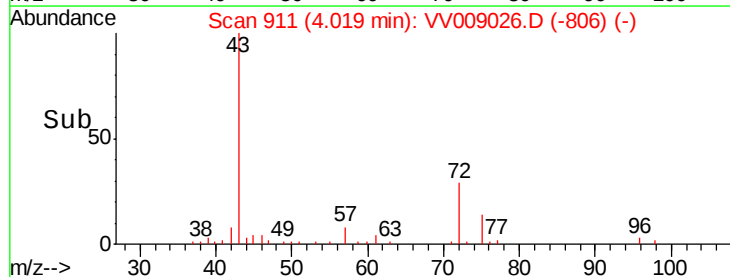
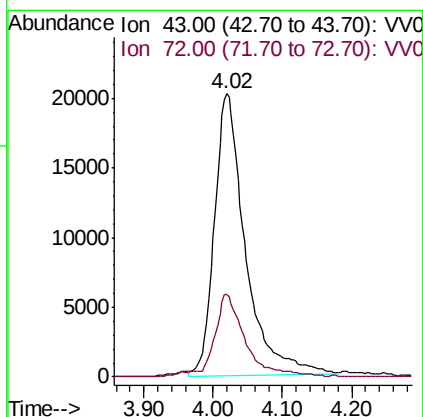
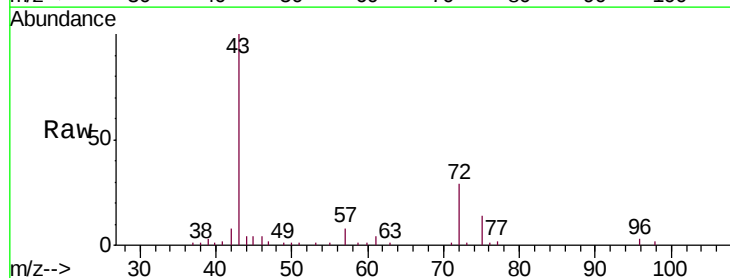
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02565

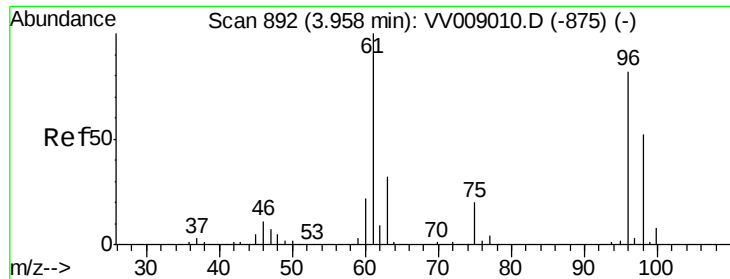
Tgt Ion: 63 Resp: 141905
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.7 42.1
 83 14.9 10.2 19.0



#21
 2-Butanone
 Concen: 46.719 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. 0.01 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion: 43 Resp: 63007
 Ion Ratio Lower Upper
 43 100
 72 23.6 13.7 41.1



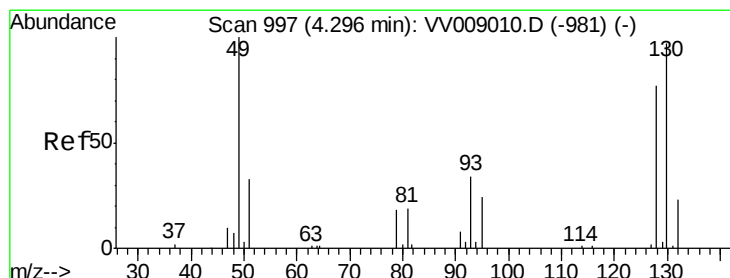
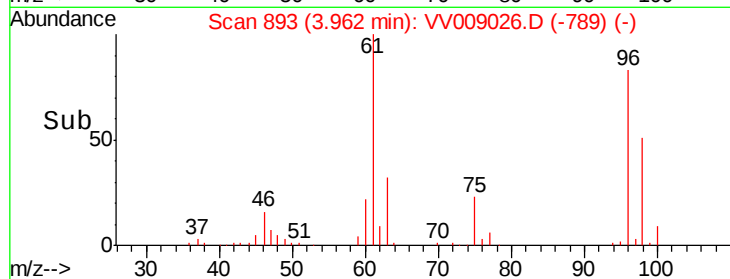
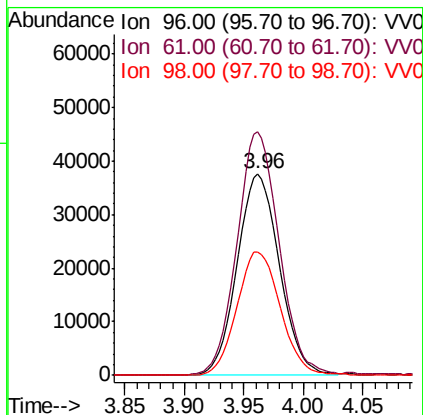
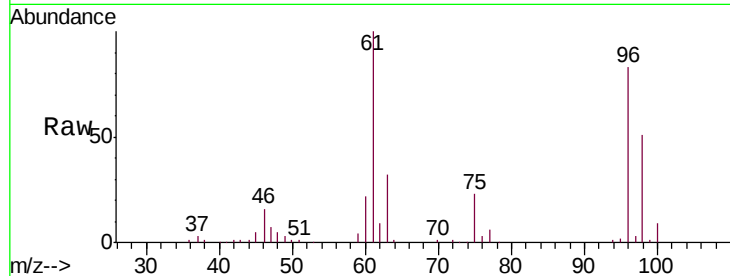


#22

cis-1,2-Dichloroethene
 Concen: 24.634 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02565

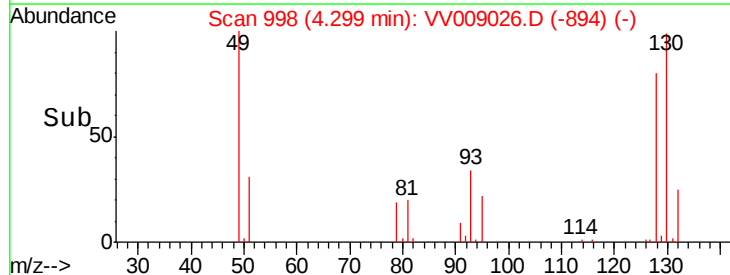
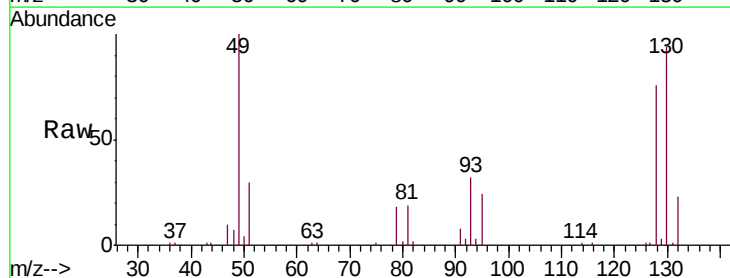
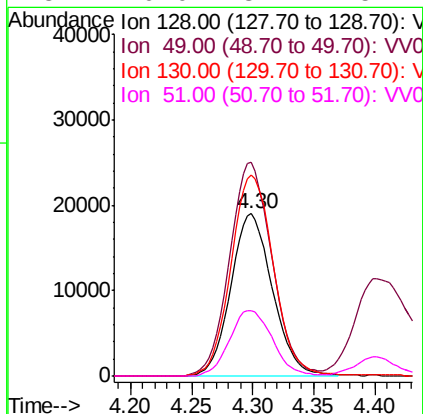
Tgt Ion: 96 Resp: 92747
 Ion Ratio Lower Upper
 96 100
 61 120.7 86.2 160.0
 98 61.3 45.6 84.6

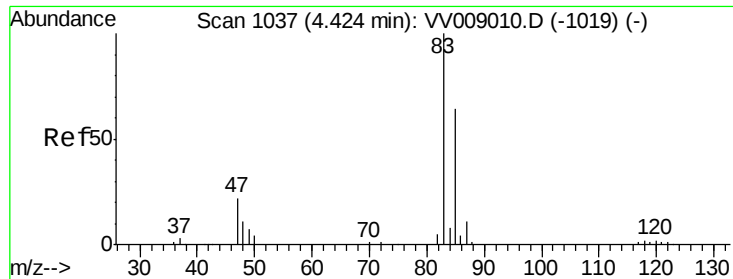


#23

Bromochloromethane
 Concen: 25.456 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion: 128 Resp: 45171
 Ion Ratio Lower Upper
 128 100
 49 131.6 93.8 174.2
 130 123.7 90.4 168.0
 51 40.0 34.2 51.4

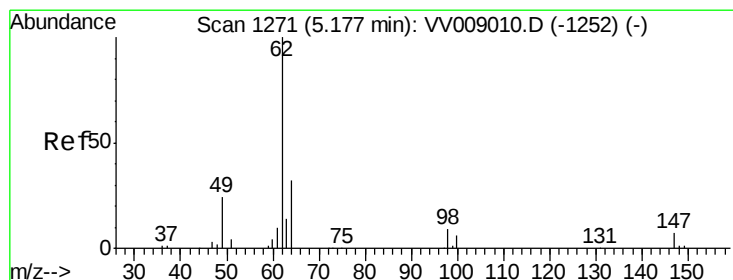
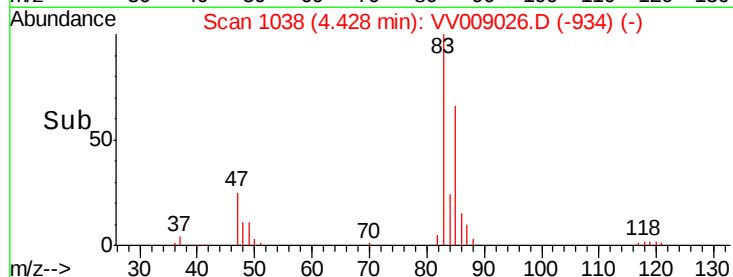
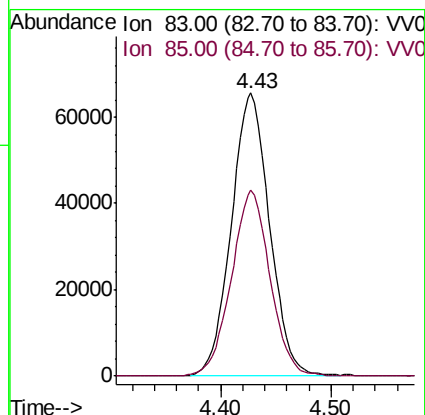
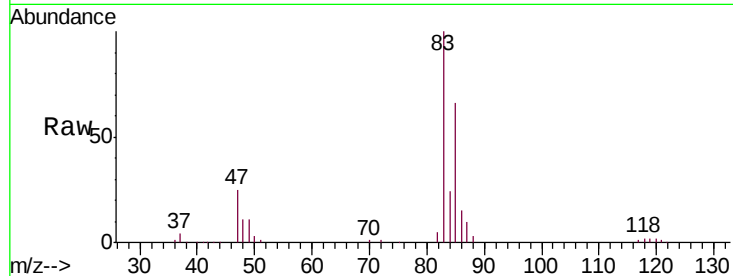




#25
Chloroform
Concen: 25.074 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV009026.D
Acq: 18 Dec 2018 20:57

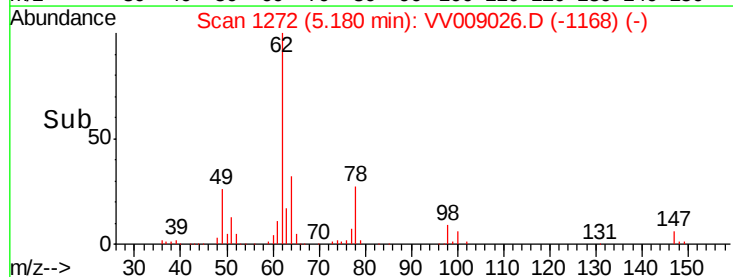
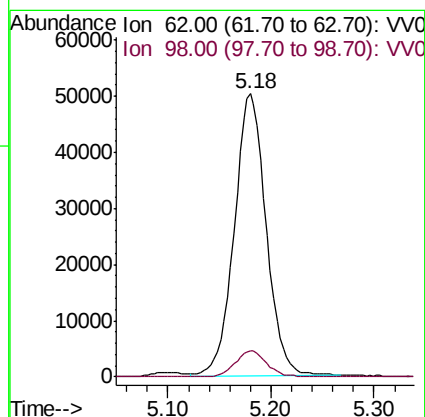
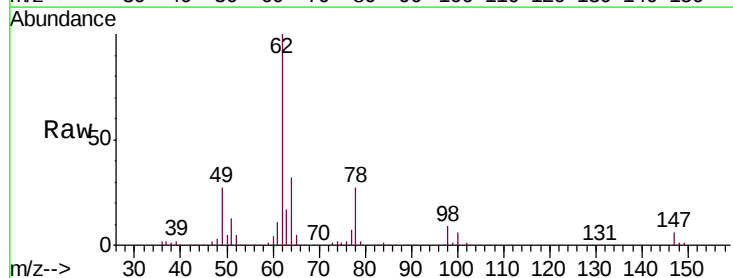
Instrument :
MSVOA_V
ClientSampleId :
VSTD02565

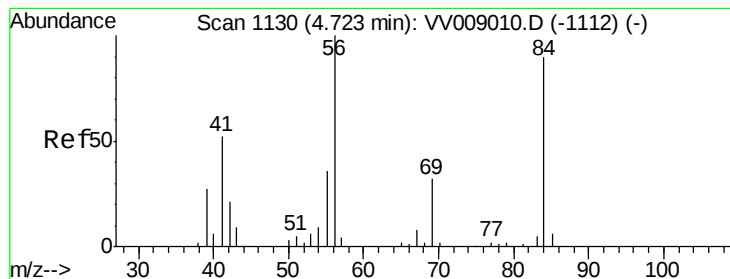
Tgt Ion: 83 Resp: 157516
Ion Ratio Lower Upper
83 100
85 66.4 45.6 84.8



#27
1,2-Dichloroethane
Concen: 25.306 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV009026.D
Acq: 18 Dec 2018 20:57

Tgt Ion: 62 Resp: 108291
Ion Ratio Lower Upper
62 100
98 9.3 7.4 11.0





#30

Cyclohexane

Concen: 20.693 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD02565

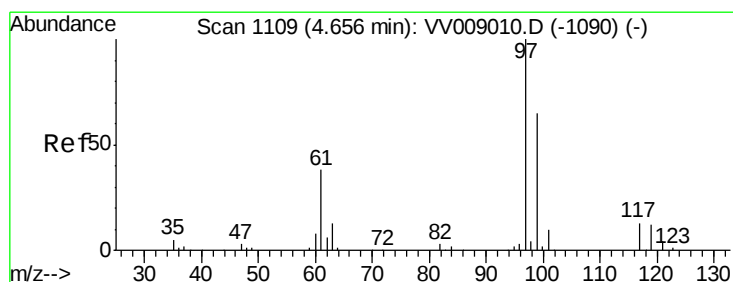
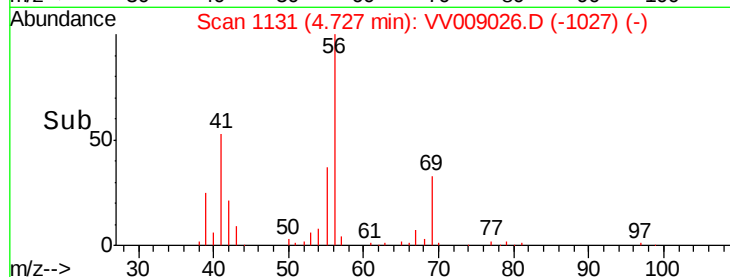
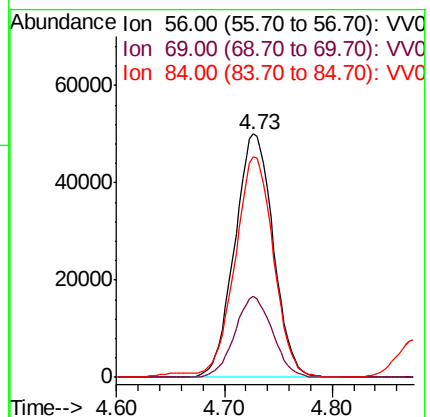
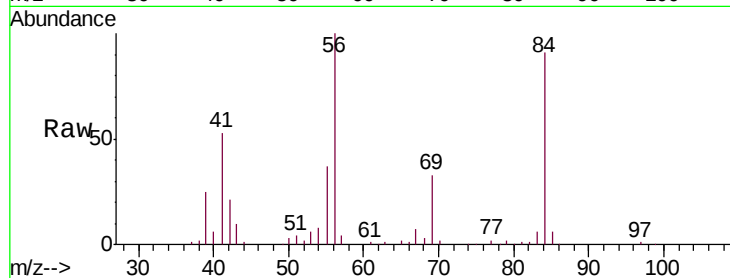
Tgt Ion: 56 Resp: 124654

Ion Ratio Lower Upper

56 100

69 32.4 25.8 38.8

84 90.0 73.0 109.6



#31

1,1,1-Trichloroethane

Concen: 21.993 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

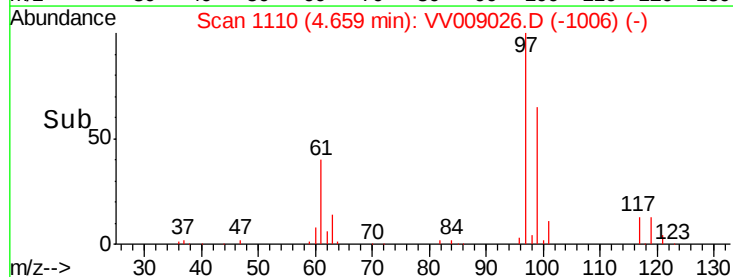
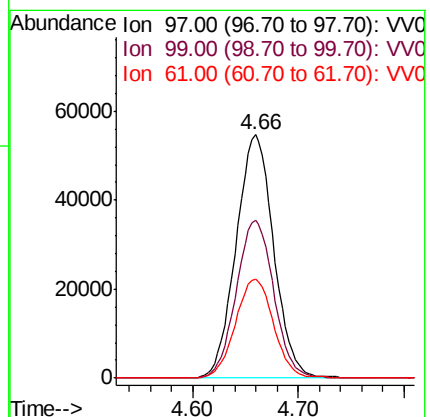
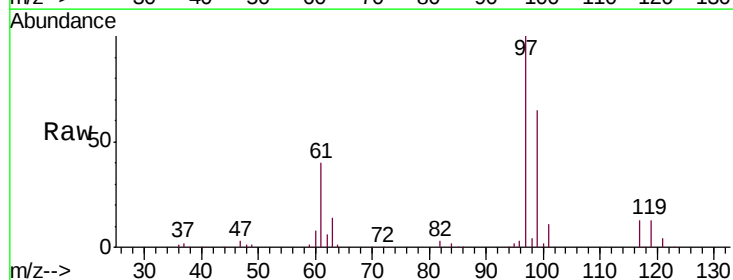
Tgt Ion: 97 Resp: 135649

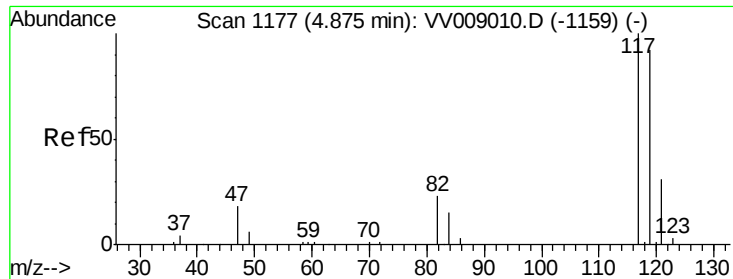
Ion Ratio Lower Upper

97 100

99 64.7 51.9 77.9

61 41.0 33.1 49.7





#32

Carbon tetrachloride

Concen: 21.506 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

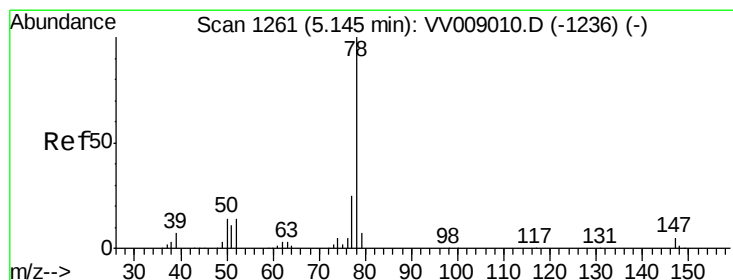
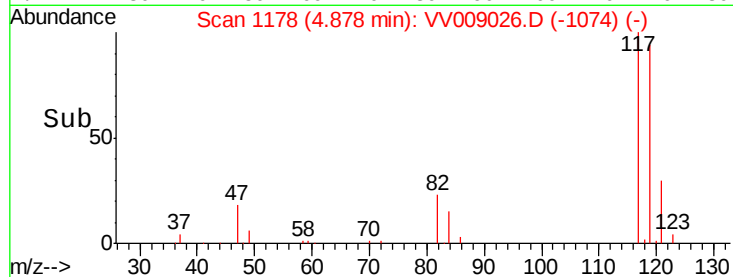
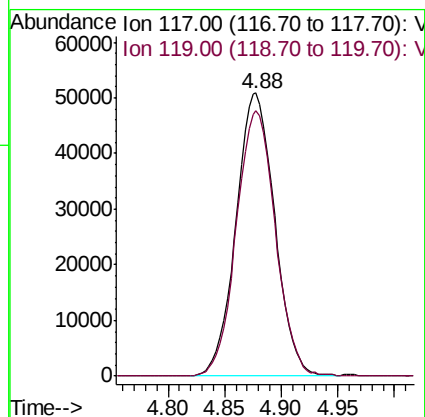
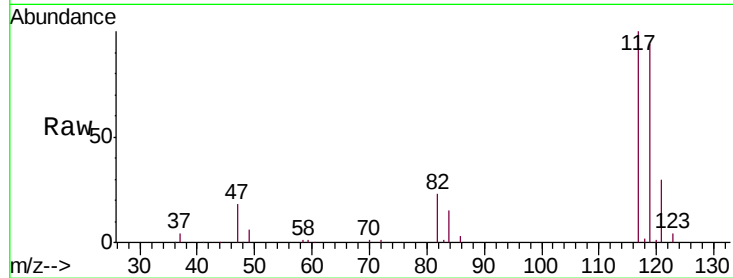
VSTD02565

Tgt Ion:117 Resp: 121101

Ion Ratio Lower Upper

117 100

119 94.6 77.1 115.7



#34

Benzene

Concen: 22.640 ug/L

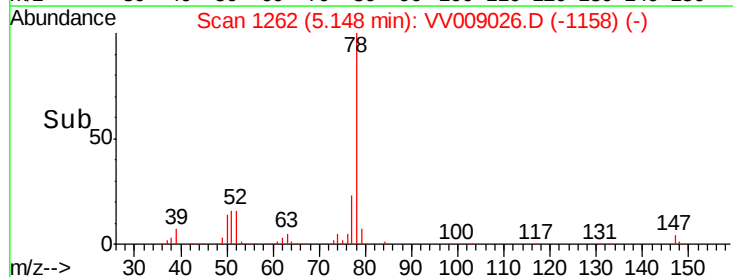
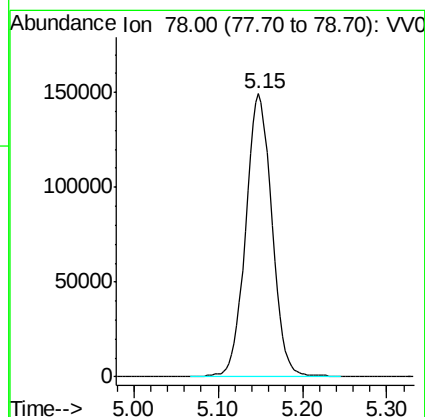
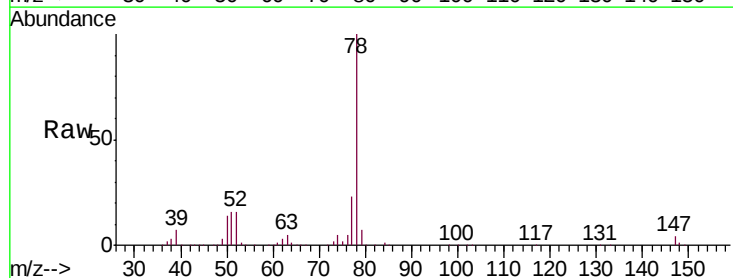
RT: 5.15 min Scan# 1262

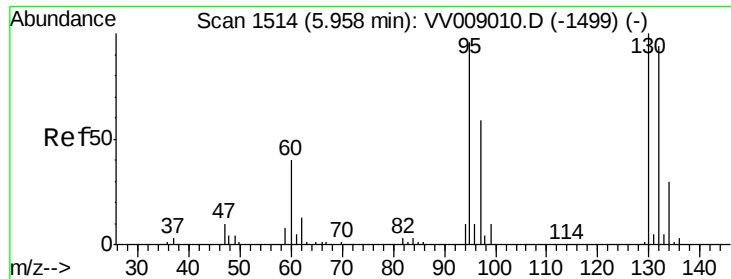
Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Tgt Ion: 78 Resp: 324494

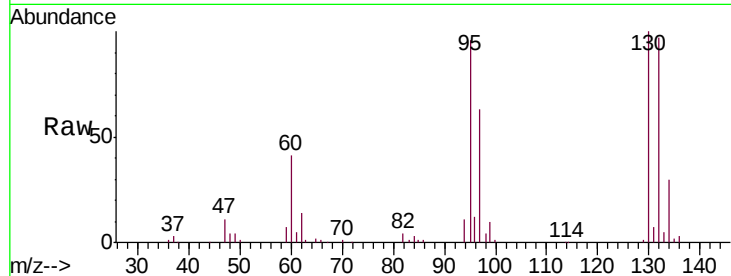




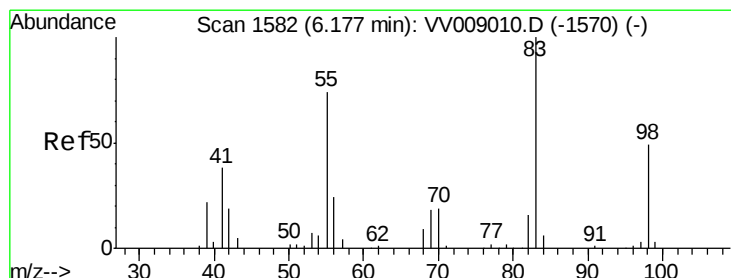
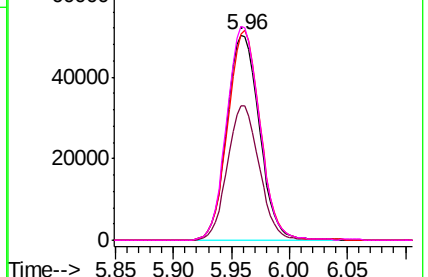
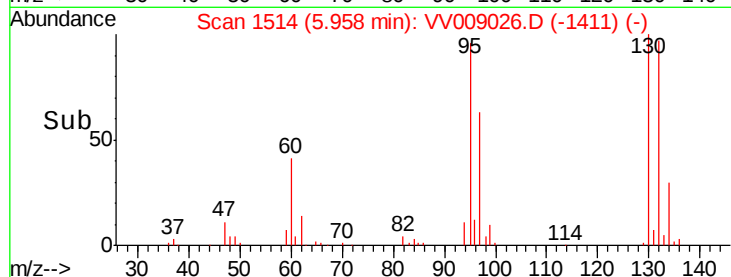
#35
 Trichloroethene
 Concen: 22.672 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02565

Tgt Ion: 95 Resp: 97968
 Ion Ratio Lower Upper
 95 100
 97 64.1 45.3 84.1
 132 100.9 70.0 130.0
 130 104.8 73.4 136.4

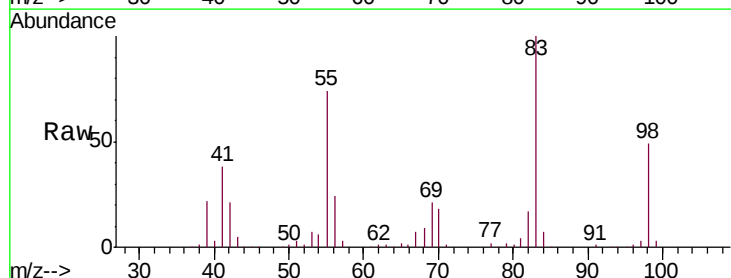


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

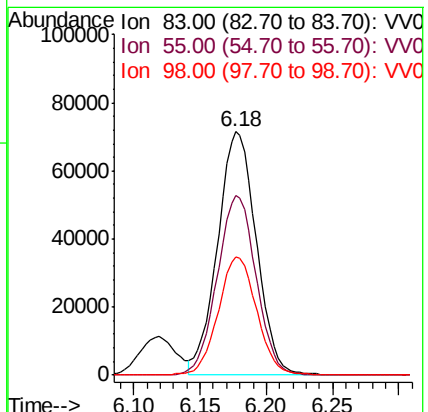
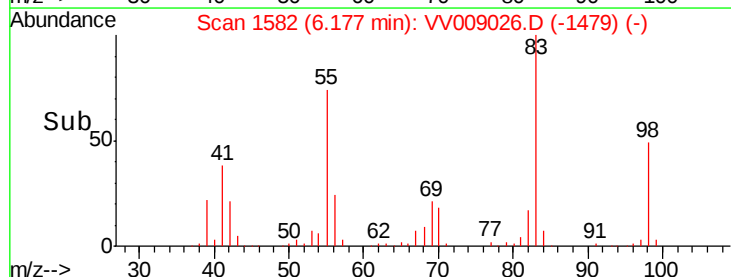


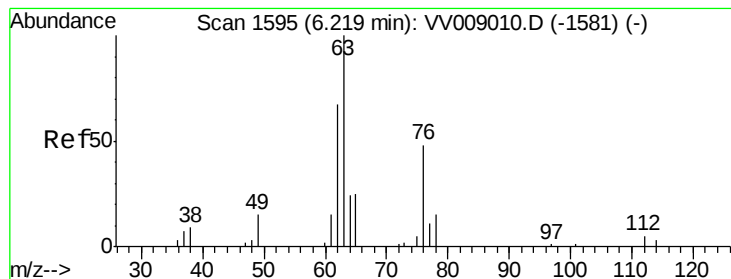
#36
 Methylcyclohexane
 Concen: 20.992 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion: 83 Resp: 144666
 Ion Ratio Lower Upper
 83 100
 55 74.3 58.2 87.2
 98 48.3 37.8 56.8



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: 23.401 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

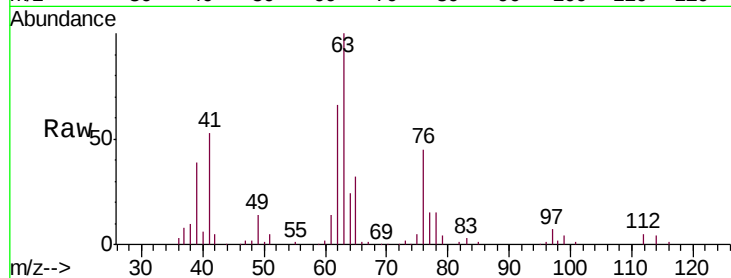
VSTD02565

Tgt Ion: 63 Resp: 80497

Ion Ratio Lower Upper

63 100

112 4.7 3.8 5.8



Abundance Ion 63.00 (62.70 to 63.70): VV009010.D (-1581) (-)

Ion 112.00 (111.70 to 112.70): VV009010.D (-1581) (-)

6.22

40000

30000

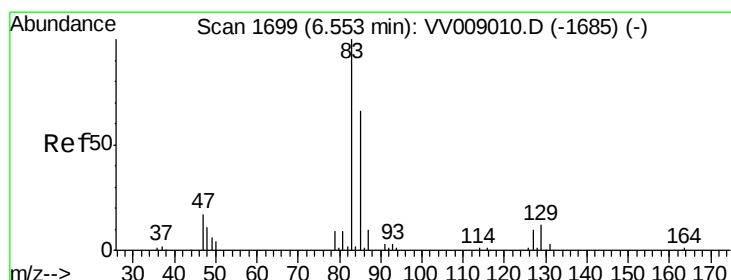
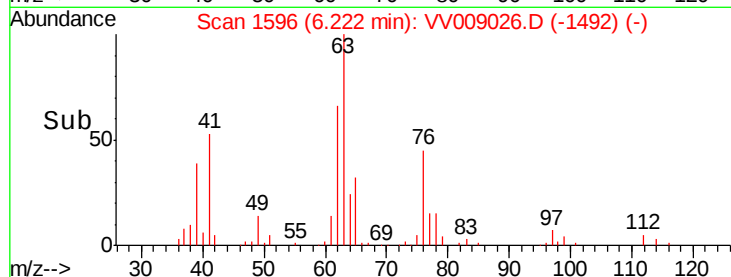
20000

10000

0

6.15 6.20 6.25 6.30

Time-->



#41

Bromodichloromethane

Concen: 24.619 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

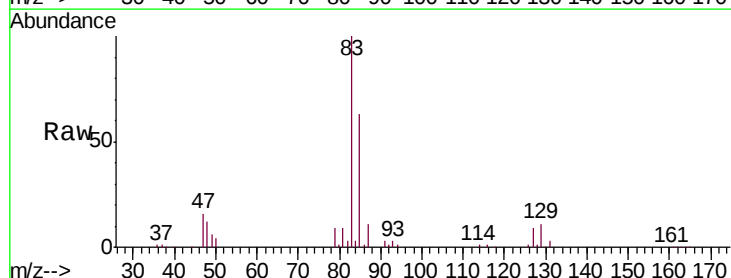
Tgt Ion: 83 Resp: 111620

Ion Ratio Lower Upper

83 100

85 63.1 45.3 84.1

127 9.1 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VV009010.D (-1685) (-)

Ion 85.00 (84.70 to 85.70): VV009010.D (-1685) (-)

Ion 127.00 (126.70 to 127.70): VV009010.D (-1685) (-)

6.56

80000

60000

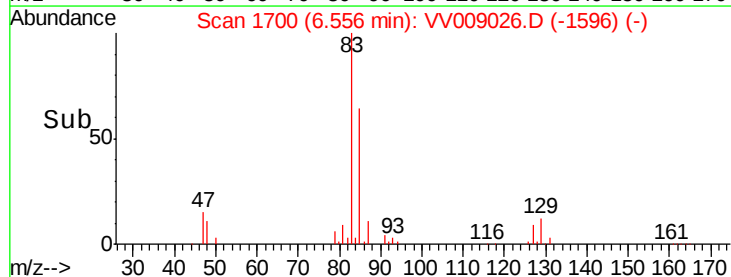
40000

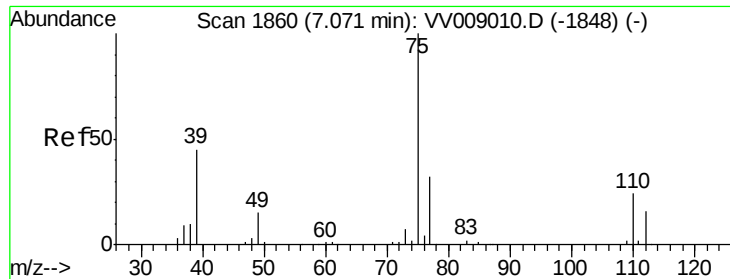
20000

0

6.50 6.55 6.60

Time-->



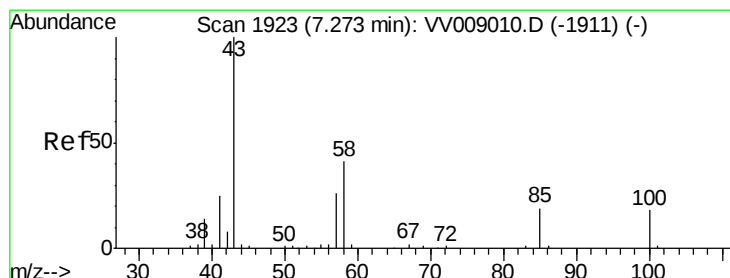
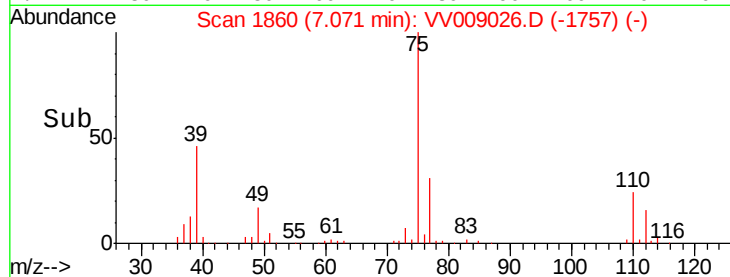
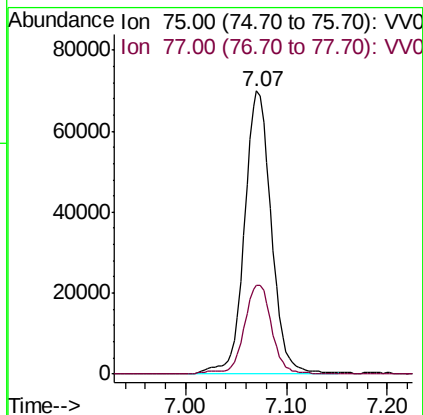
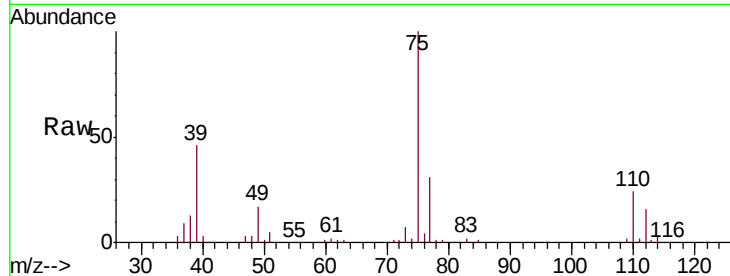


#42

cis-1,3-Dichloropropene
 Concen: 25.490 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02565

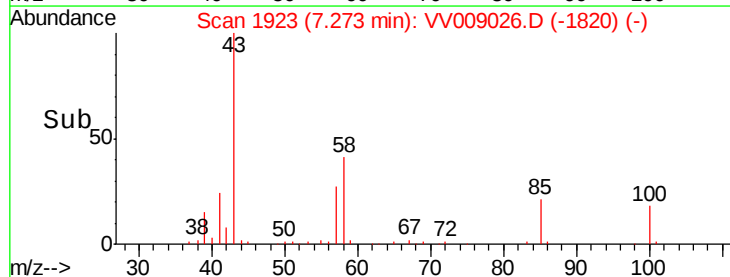
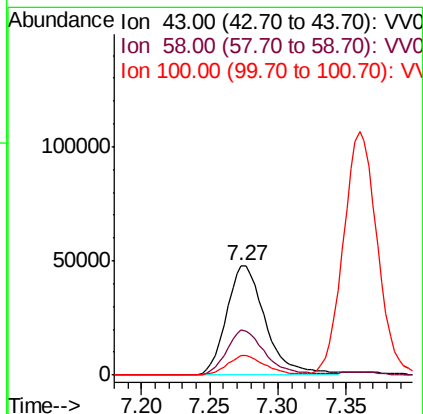
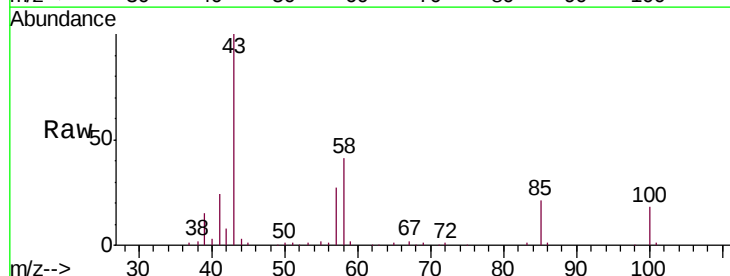
Tgt Ion: 75 Resp: 128374
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.3 39.6

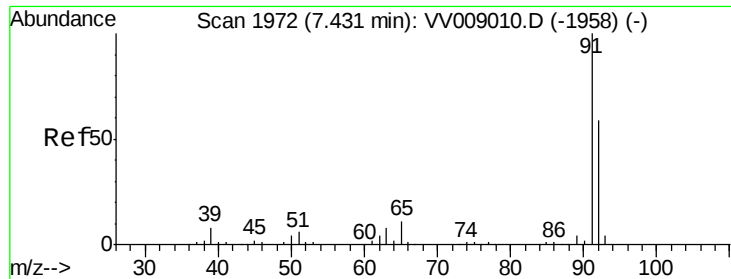


#43

4-Methyl-2-pentanone
 Concen: 41.001 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion: 43 Resp: 95328
 Ion Ratio Lower Upper
 43 100
 58 40.6 32.2 48.4
 100 17.3 13.8 20.8





#44

Toluene

Concen: 23.149 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

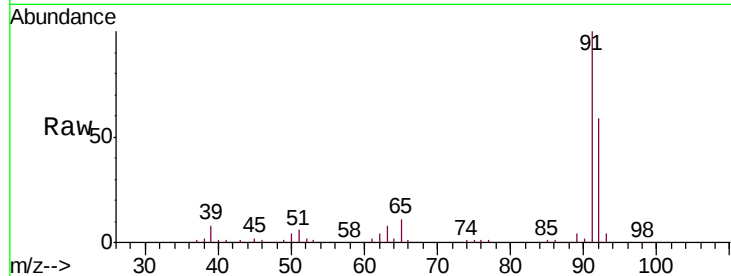
VSTD02565

Tgt Ion: 91 Resp: 347954

Ion Ratio Lower Upper

91 100

92 58.6 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV009010.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009010.D (-1958) (-)

7.43

200000

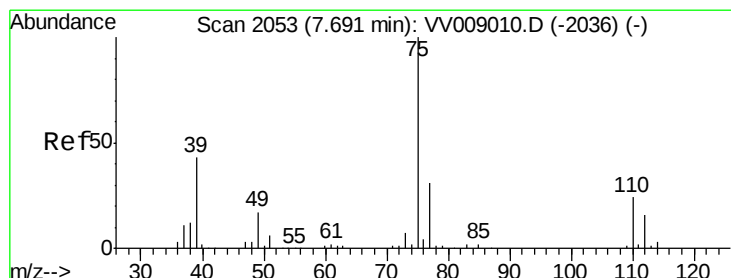
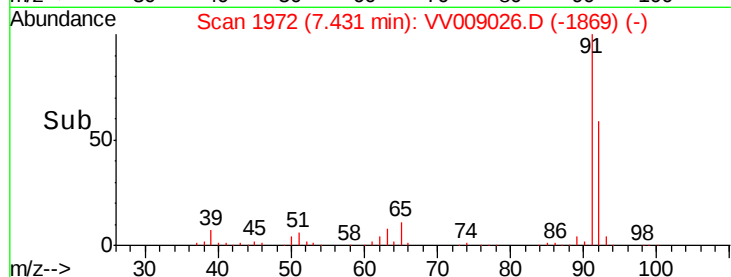
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.709 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009026.D

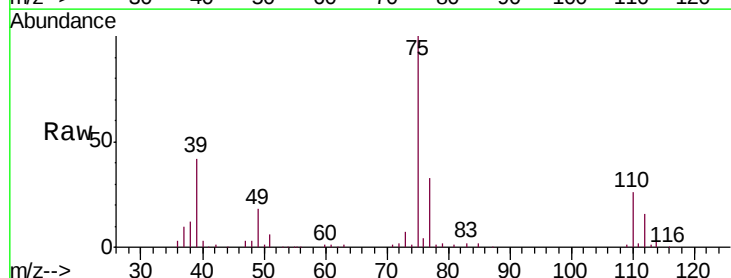
Acq: 18 Dec 2018 20:57

Tgt Ion: 75 Resp: 108479

Ion Ratio Lower Upper

75 100

77 32.6 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV009010.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV009010.D (-2036) (-)

7.69

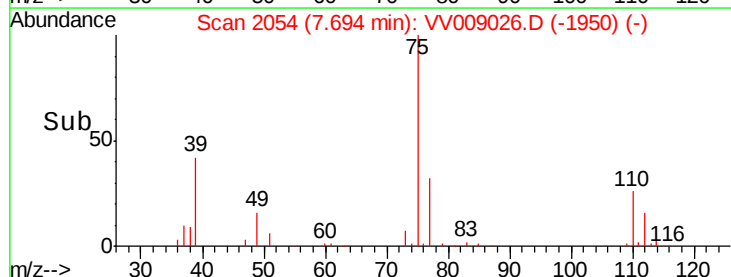
60000

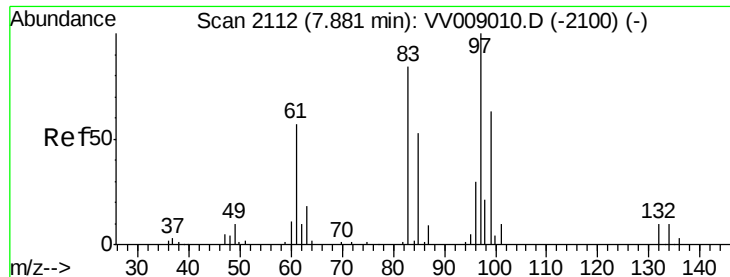
40000

20000

0

Time-->





#46

1,1,2-Trichloroethane

Concen: 23.949 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD02565

Tgt Ion: 97 Resp: 68642

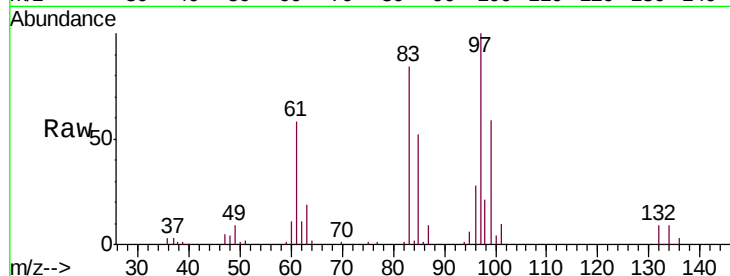
Ion Ratio Lower Upper

97 100

83 83.7 56.6 105.2

85 52.4 36.6 68.0

99 59.5 43.2 80.2

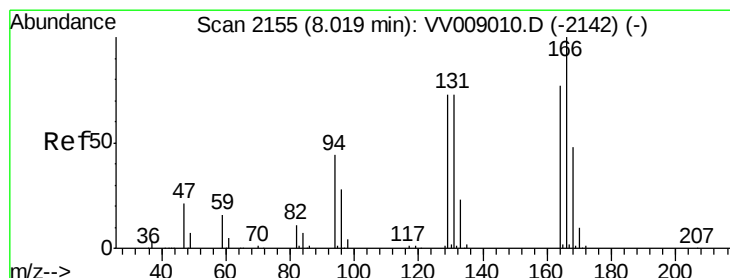
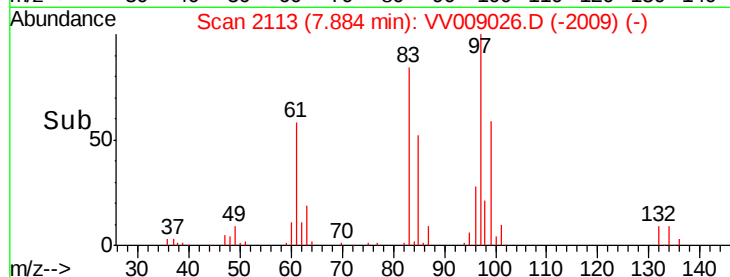
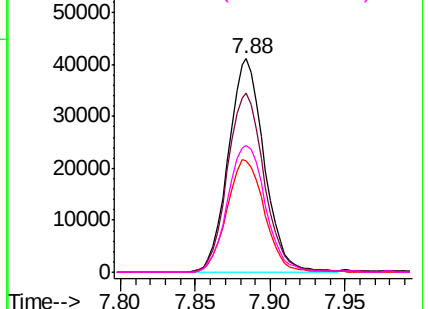


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 21.493 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Tgt Ion: 164 Resp: 75526

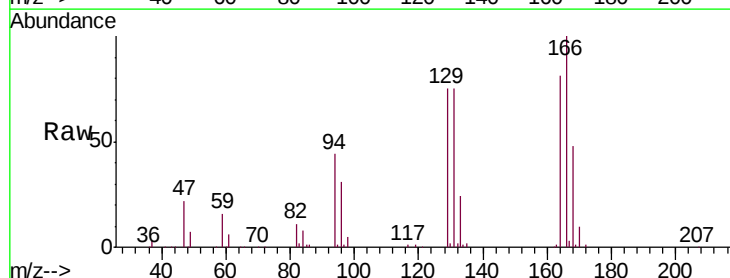
Ion Ratio Lower Upper

164 100

129 93.4 64.6 120.0

131 93.0 64.5 119.7

166 124.0 88.7 164.7

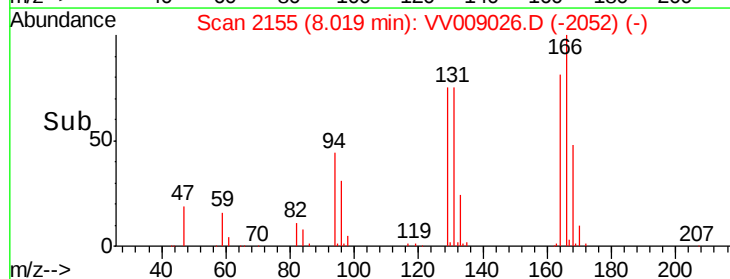
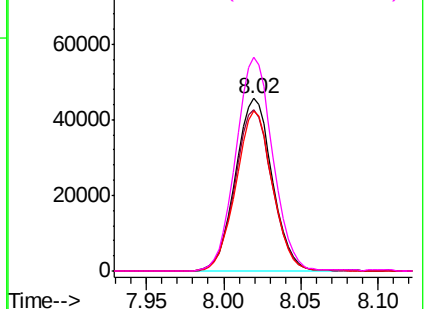


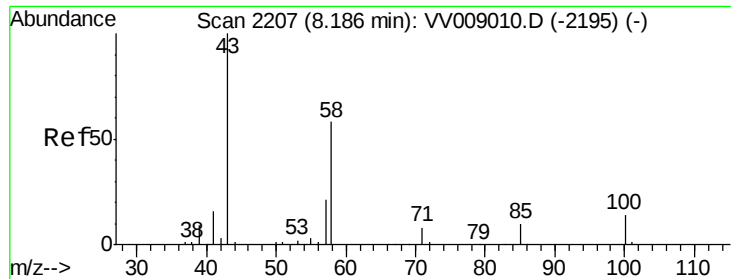
Abundance Ion 164.00 (163.70 to 164.70): V

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

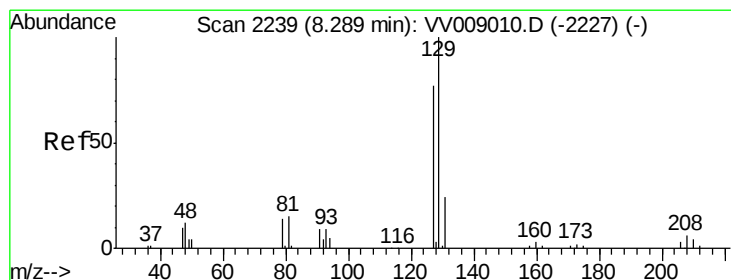
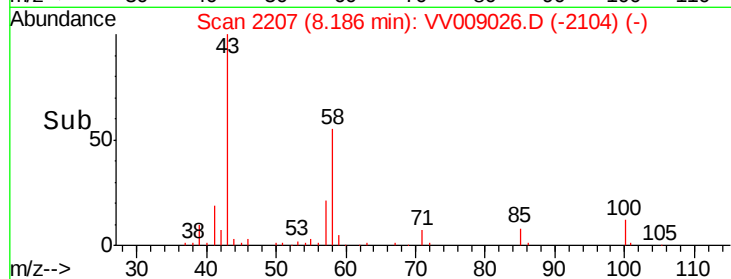
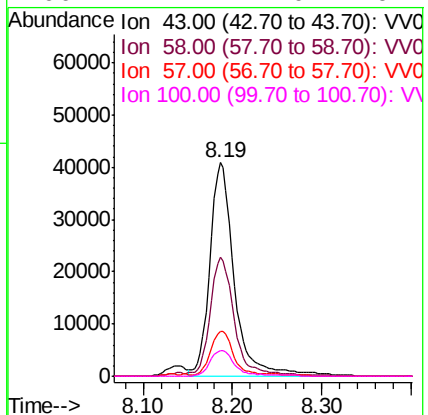
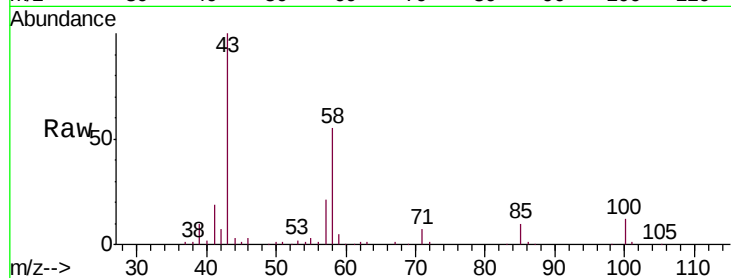




#49
2-Hexanone
Concen: 40.659 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009026.D
Acq: 18 Dec 2018 20:57

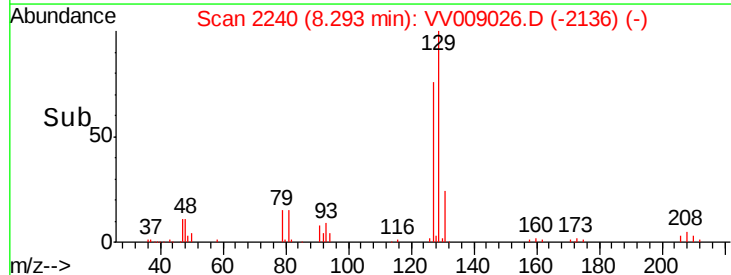
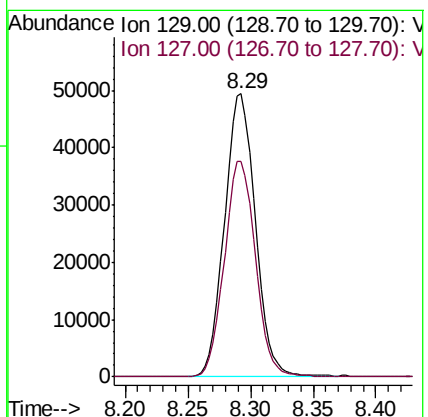
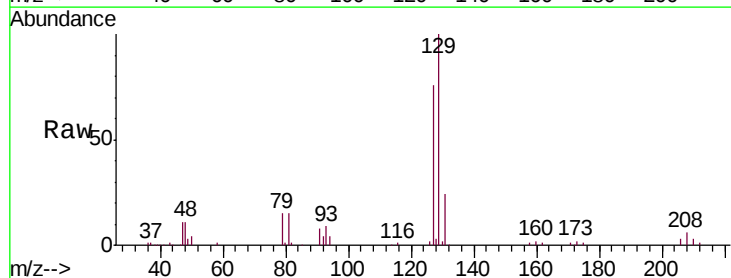
Instrument :
MSVOA_V
ClientSampleId :
VSTD02565

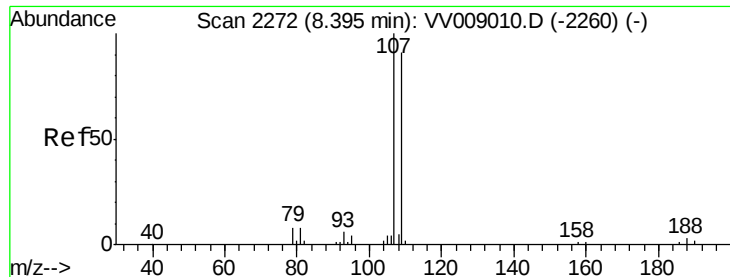
Tgt Ion: 43 Resp: 78207
Ion Ratio Lower Upper
43 100
58 53.1 43.9 65.9
57 19.6 15.7 23.5
100 11.7 11.0 16.4



#50
Dibromochloromethane
Concen: 25.789 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009026.D
Acq: 18 Dec 2018 20:57

Tgt Ion: 129 Resp: 84729
Ion Ratio Lower Upper
129 100
127 76.3 53.5 99.3

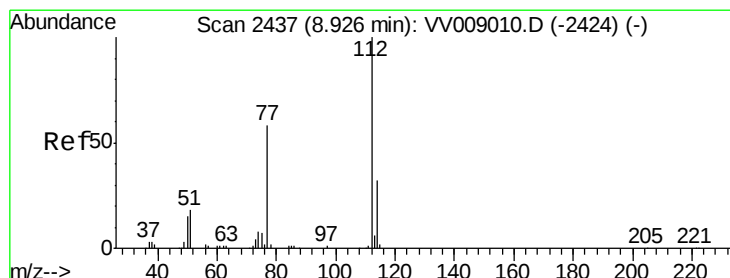
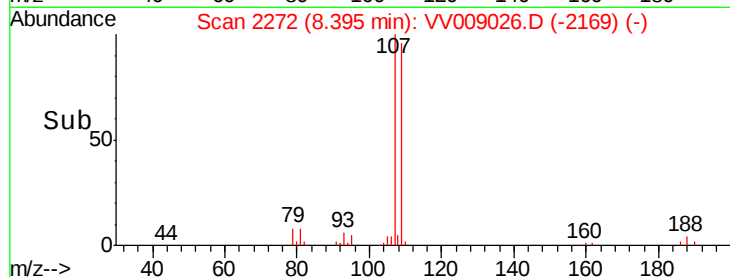
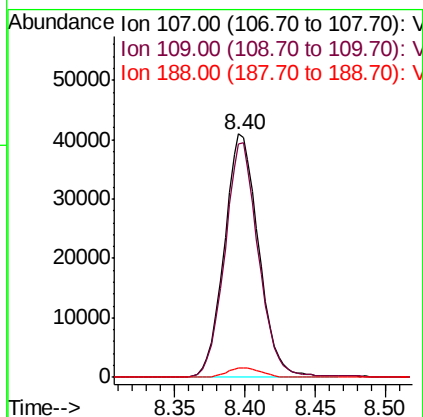
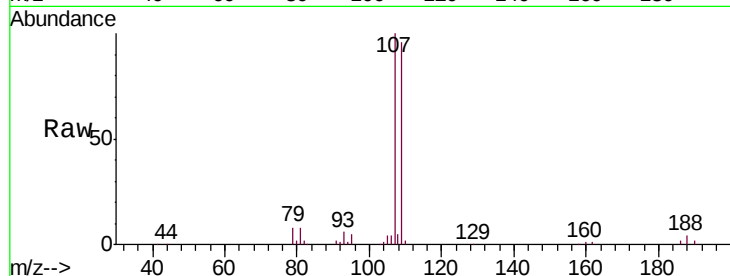




#51
 1,2-Dibromoethane
 Concen: 24.196 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

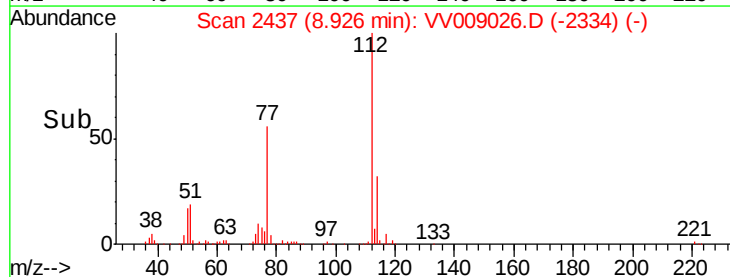
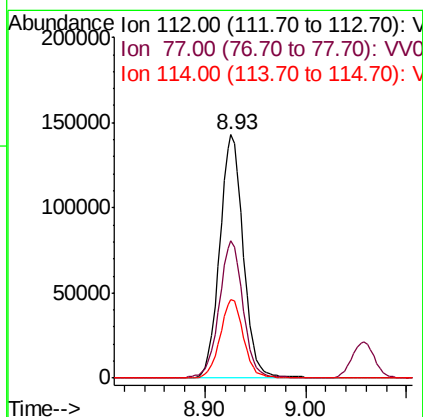
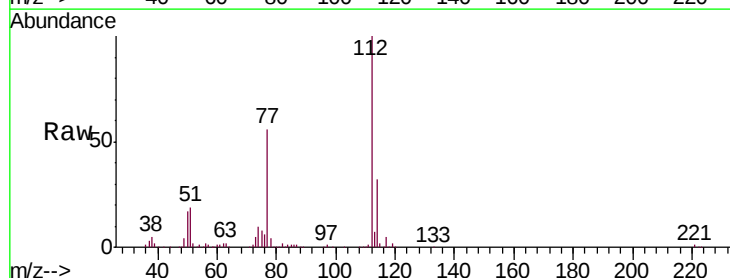
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02565

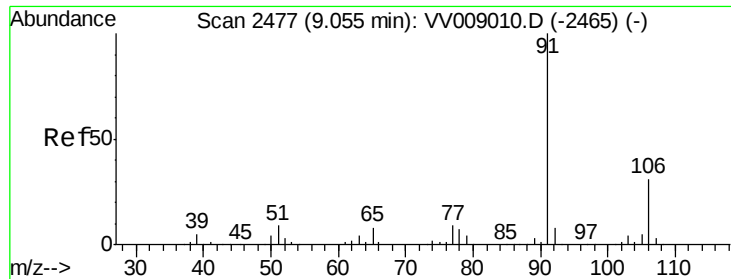
Tgt Ion:107 Resp: 69642
 Ion Ratio Lower Upper
 107 100
 109 96.1 65.8 122.2
 188 3.8 3.0 4.6



#52
 Chlorobenzene
 Concen: 23.794 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion:112 Resp: 232877
 Ion Ratio Lower Upper
 112 100
 77 56.2 44.6 66.8
 114 32.4 22.6 42.0





#53

Ethylbenzene

Concen: 23.208 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

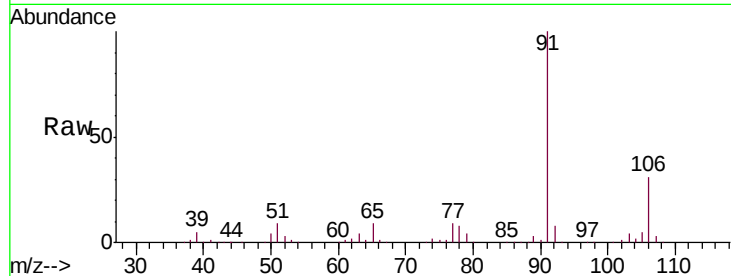
VSTD02565

Tgt Ion: 91 Resp: 378438

Ion Ratio Lower Upper

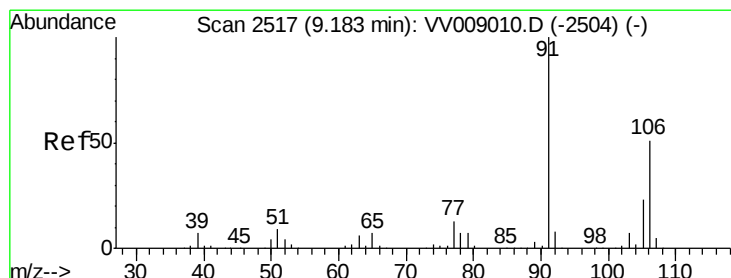
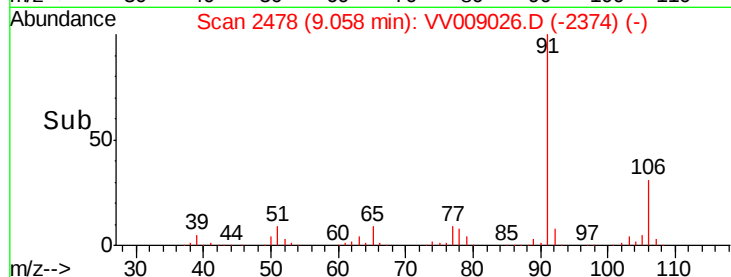
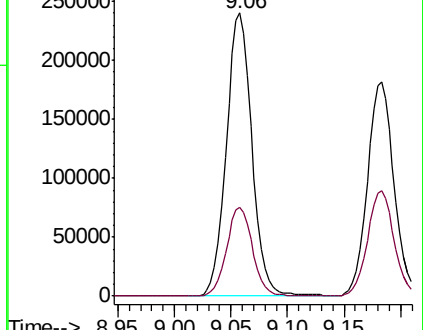
91 100

106 31.3 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV009010.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV009010.D (-2465) (-)



#54

m,p-Xylene

Concen: 23.743 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009026.D

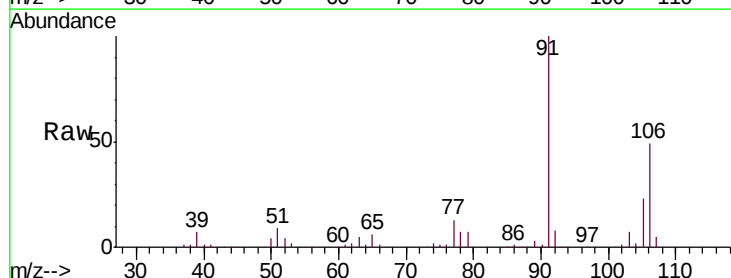
Acq: 18 Dec 2018 20:57

Tgt Ion: 106 Resp: 146599

Ion Ratio Lower Upper

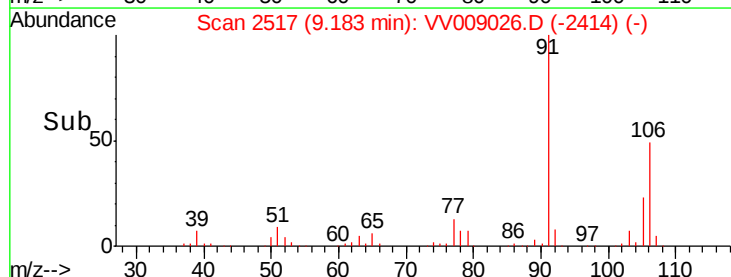
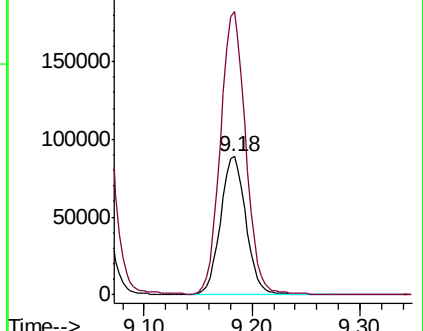
106 100

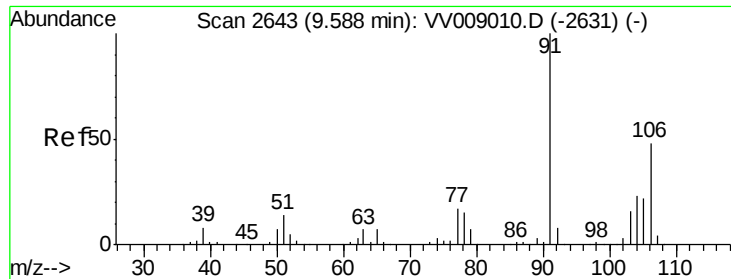
91 204.4 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VV009010.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV009010.D (-2504) (-)

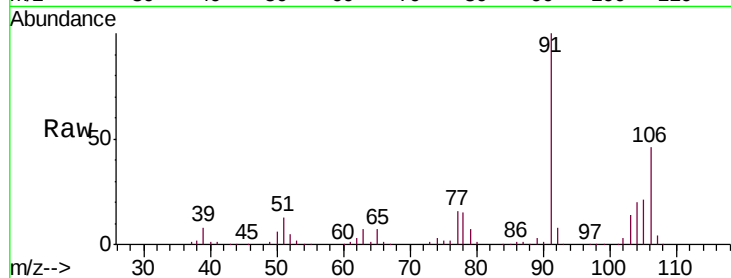




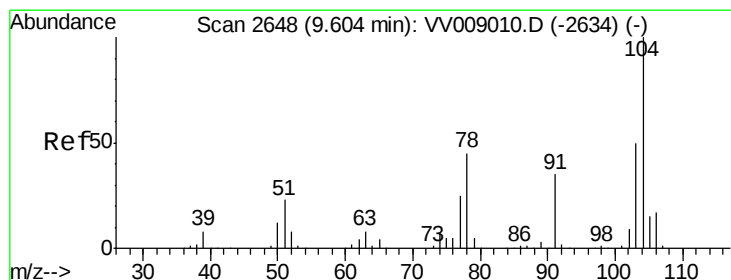
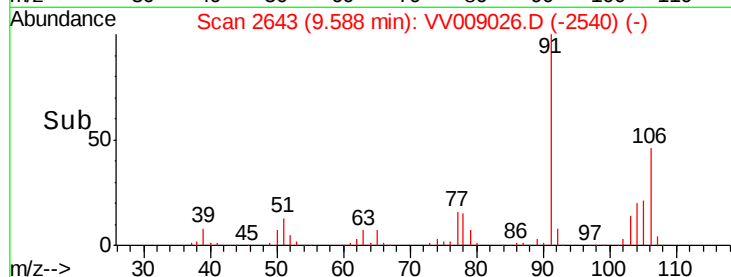
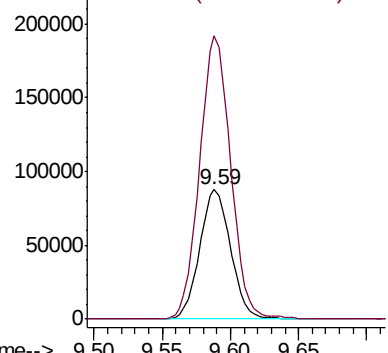
#55
o-xylene
Concen: 24.181 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009026.D
Acq: 18 Dec 2018 20:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD02565

Tgt Ion:106 Resp: 138715
Ion Ratio Lower Upper
106 100
91 218.6 148.3 275.5

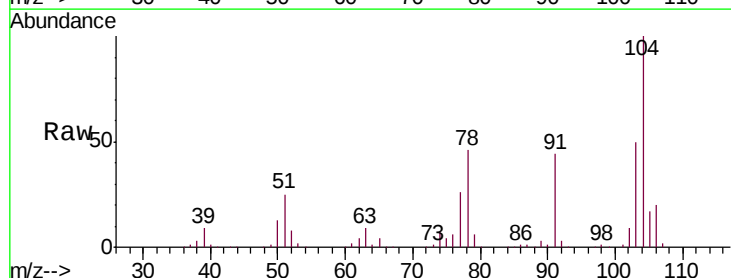


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

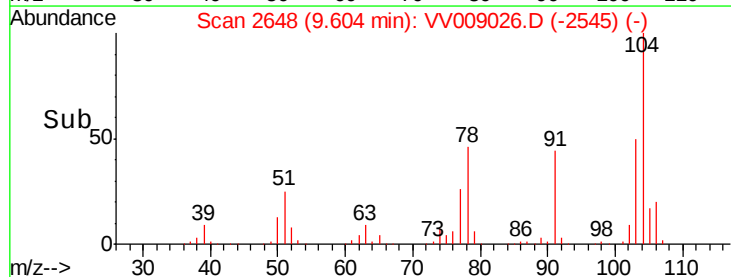
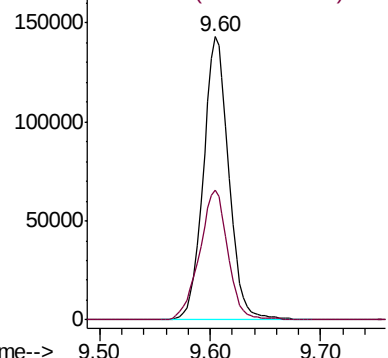


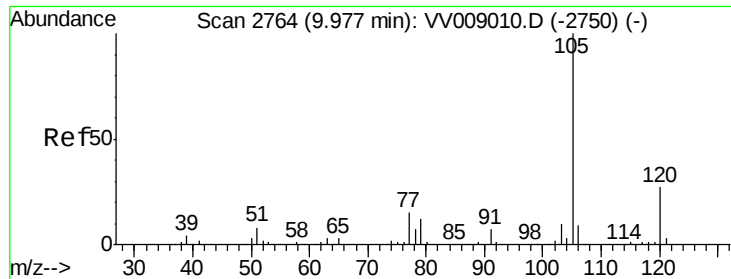
#56
Styrene
Concen: 24.653 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009026.D
Acq: 18 Dec 2018 20:57

Tgt Ion:104 Resp: 228142
Ion Ratio Lower Upper
104 100
78 45.7 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.634 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD02565

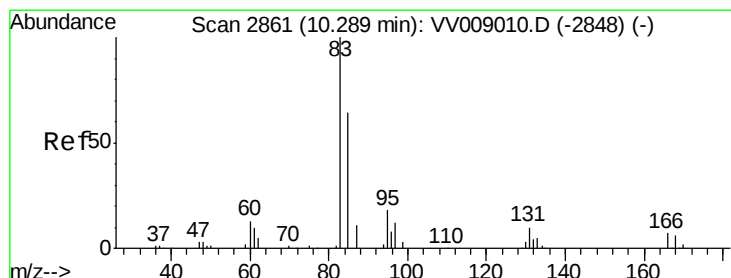
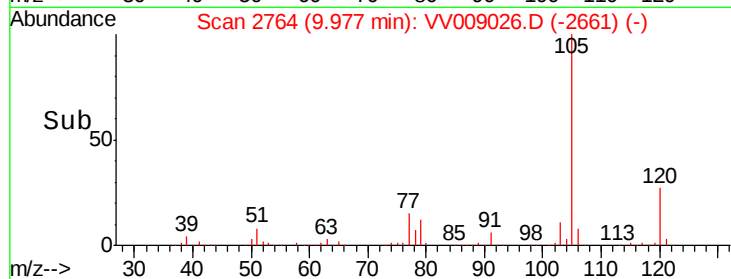
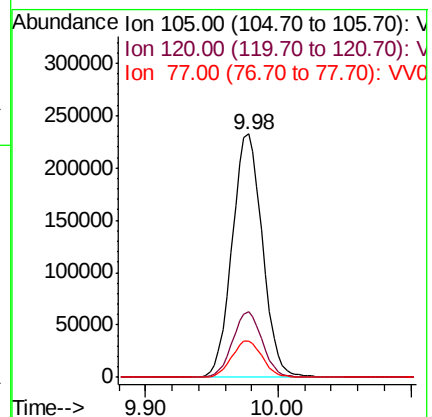
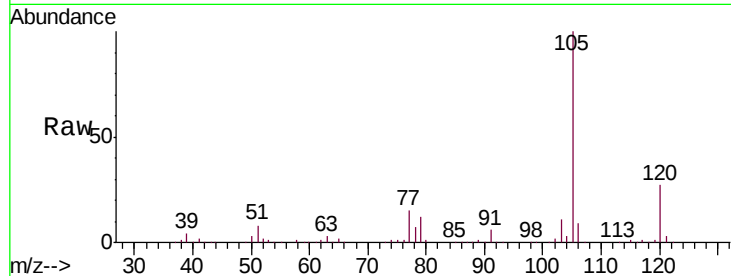
Tgt Ion:105 Resp: 368493

Ion Ratio Lower Upper

105 100

120 26.5 21.7 32.5

77 15.1 12.4 18.6



#58

1,1,2,2-Tetrachloroethane

Concen: 23.562 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

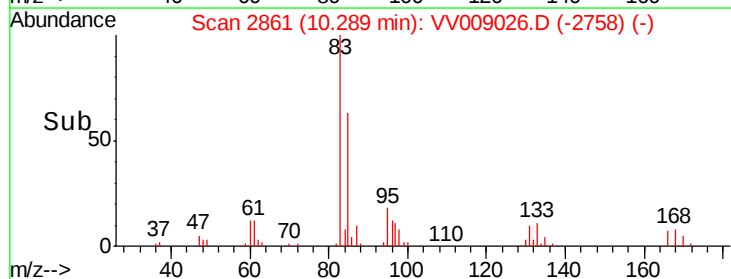
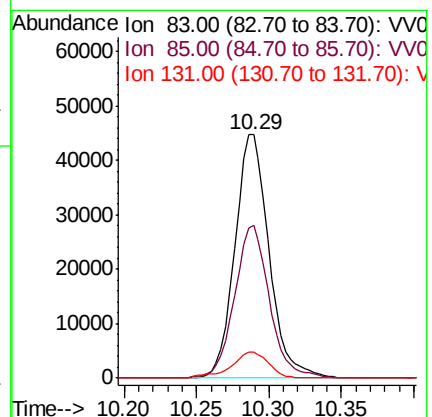
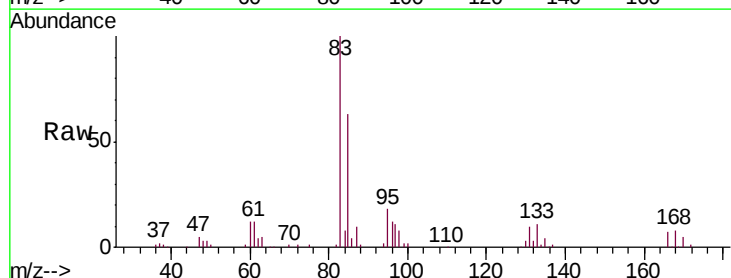
Tgt Ion: 83 Resp: 73009

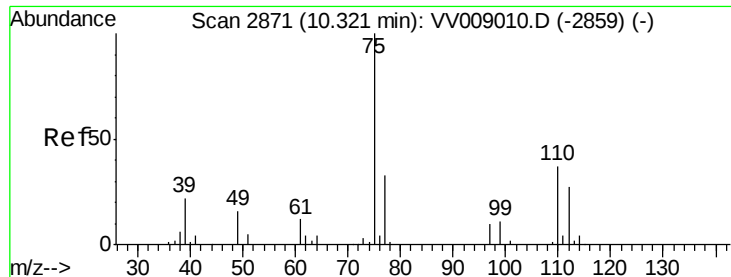
Ion Ratio Lower Upper

83 100

85 62.6 44.3 82.3

131 10.5 7.8 11.8





#59

1,2,3-Trichloropropane

Concen: 23.136 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

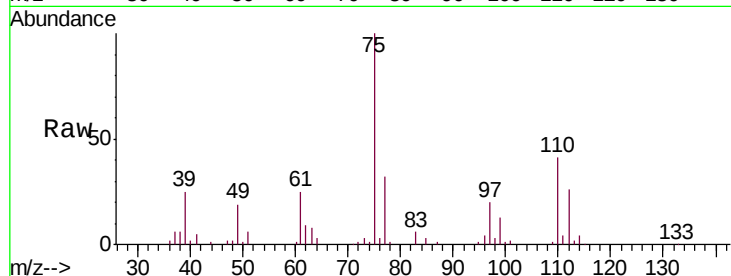
VSTD02565

Tgt Ion: 75 Resp: 62029

Ion Ratio Lower Upper

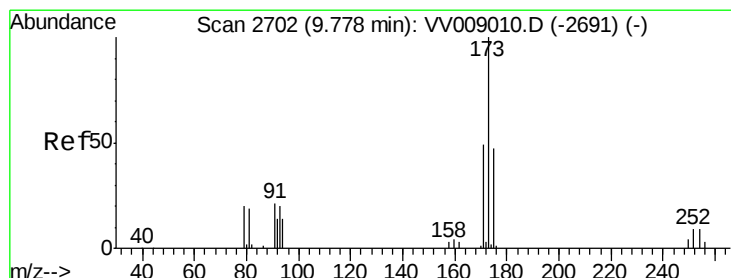
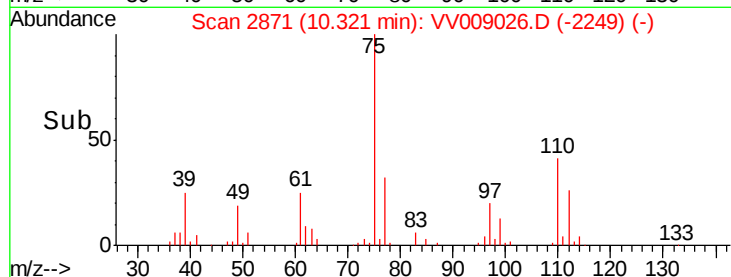
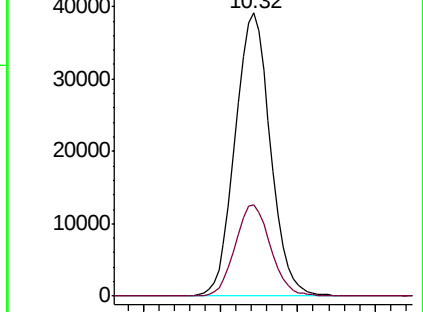
75 100

77 32.4 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VV009010.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009010.D (-2859) (-)



#62

Bromoform

Concen: 24.495 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

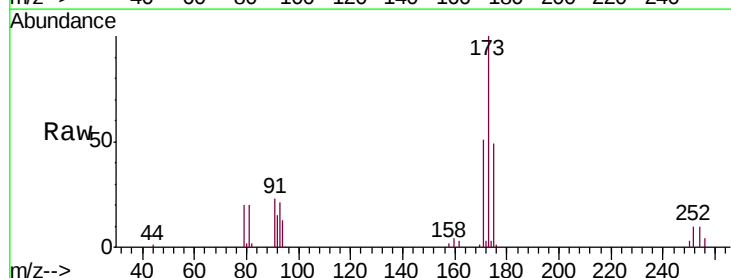
Tgt Ion: 173 Resp: 48649

Ion Ratio Lower Upper

173 100

175 49.5 37.7 56.5

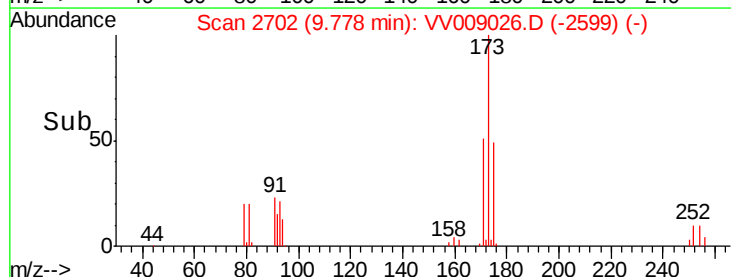
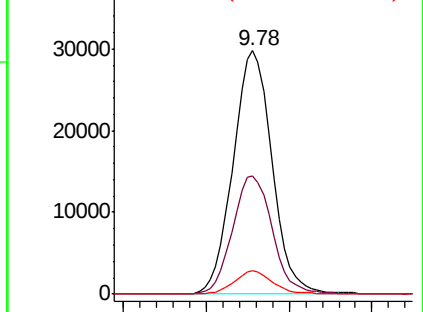
254 9.4 7.1 10.7

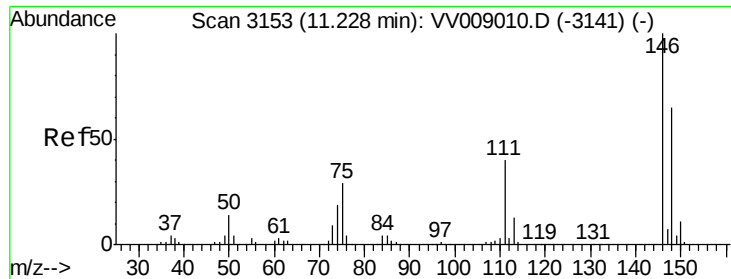


Abundance Ion 173.00 (172.70 to 173.70): VV009010.D (-2691) (-)

Ion 175.00 (174.70 to 175.70): VV009010.D (-2691) (-)

Ion 254.00 (253.70 to 254.70): VV009010.D (-2691) (-)





#63

1,3-Dichlorobenzene

Concen: 23.428 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleID :

VSTD02565

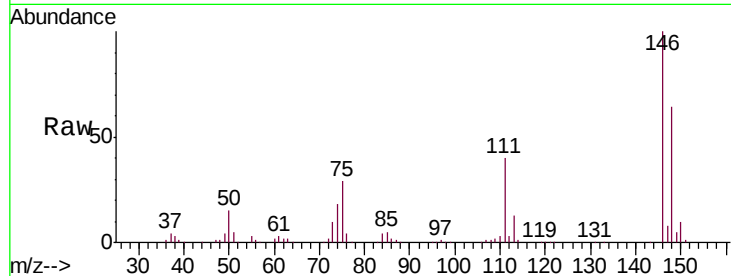
Tgt Ion:146 Resp: 166062

Ion Ratio Lower Upper

146 100

111 40.2 27.5 51.1

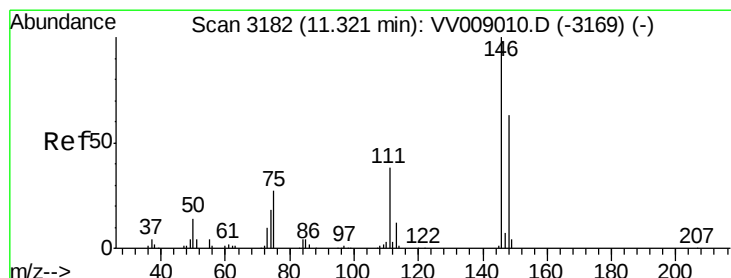
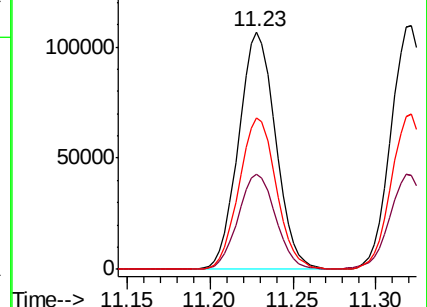
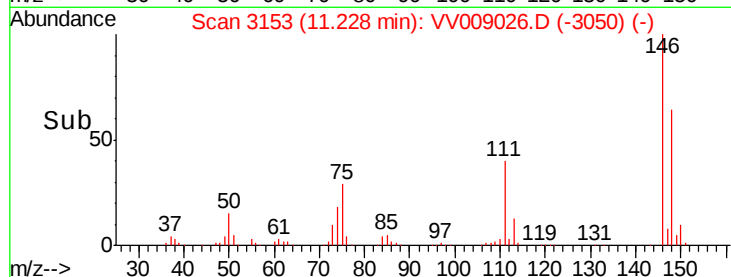
148 63.8 44.0 81.8



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: 23.290 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

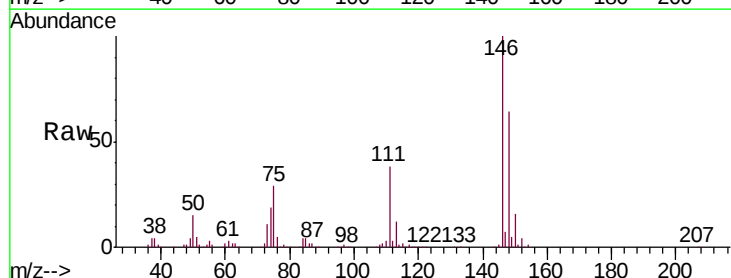
Tgt Ion:146 Resp: 169876

Ion Ratio Lower Upper

146 100

111 38.3 26.8 49.8

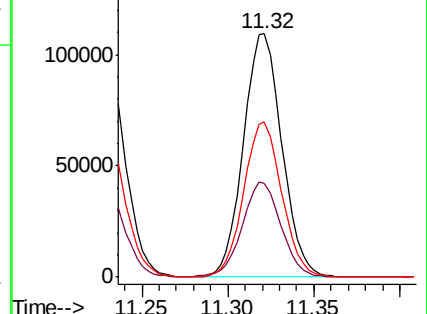
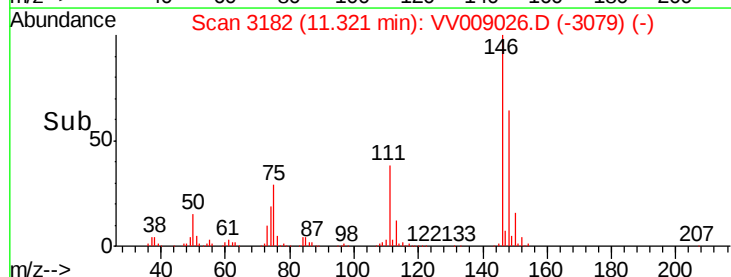
148 63.5 45.8 85.0

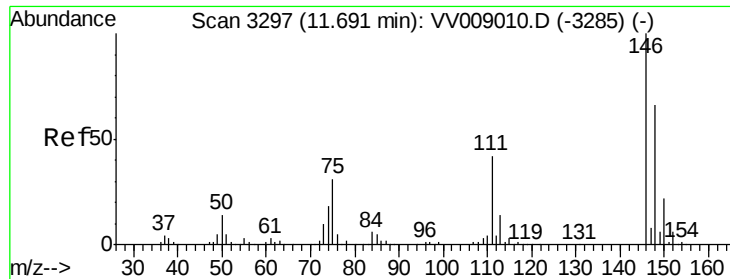


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

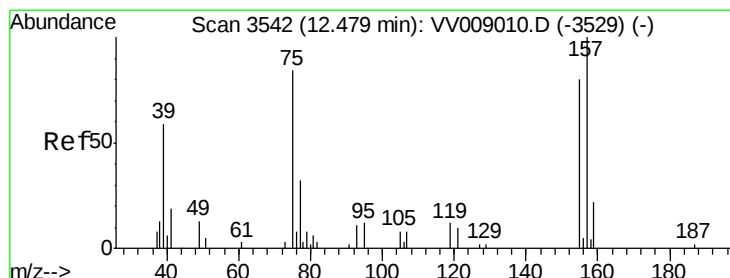
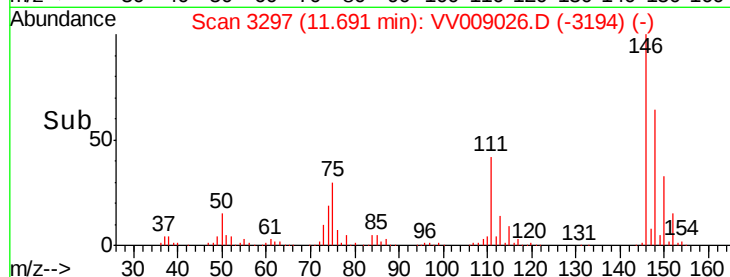
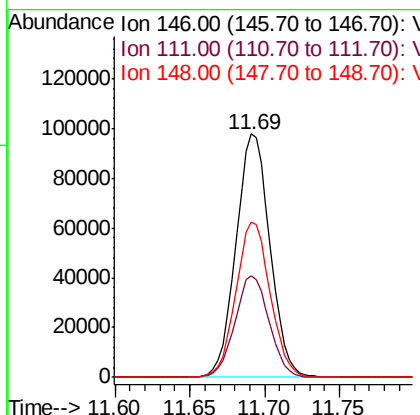
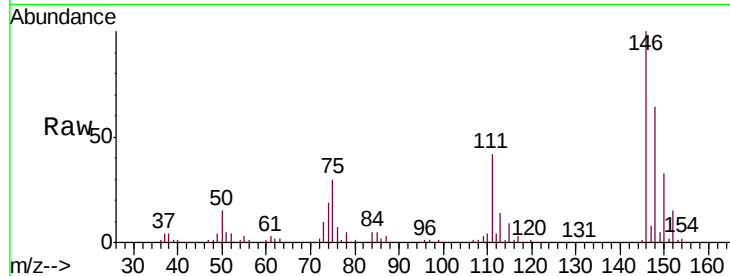




#65
 1,2-Dichlorobenzene
 Concen: 23.680 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

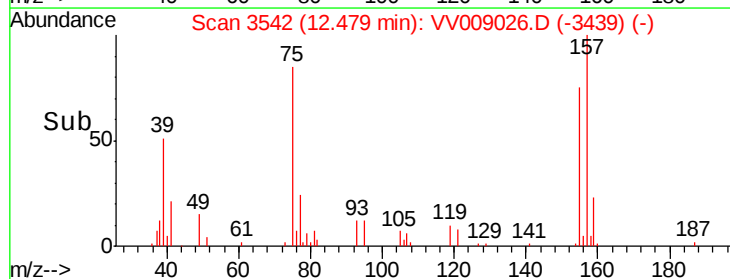
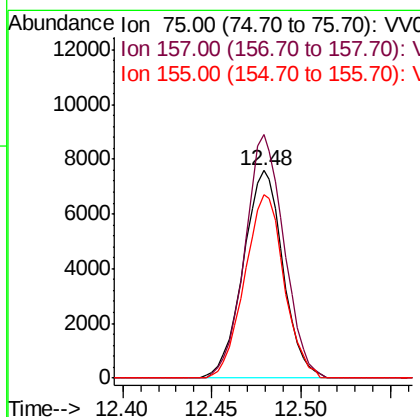
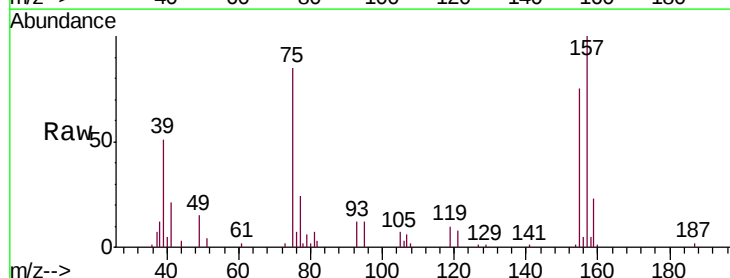
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02565

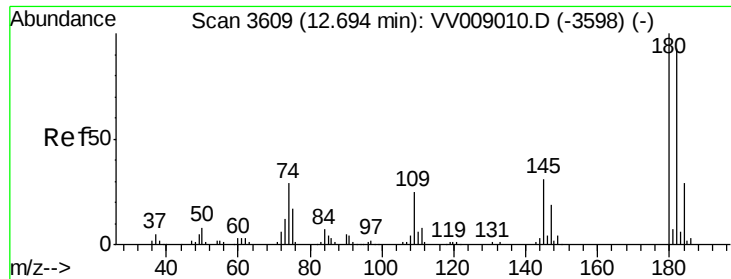
Tgt Ion: 146 Resp: 154736
 Ion Ratio Lower Upper
 146 100
 111 41.9 34.2 51.4
 148 64.0 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.068 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion: 75 Resp: 11814
 Ion Ratio Lower Upper
 75 100
 157 117.4 95.8 143.6
 155 88.5 71.4 107.2

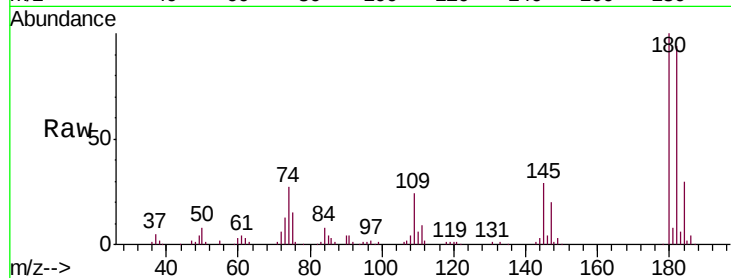




#67
 1,3,5-Trichlorobenzene
 Concen: 21.663 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02565

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.9	113.9
184	30.6	23.8	35.6
145	29.8	24.2	36.4



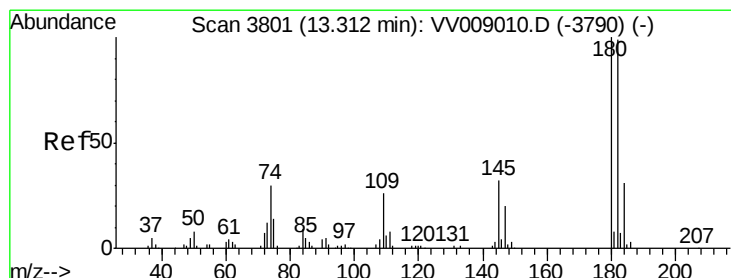
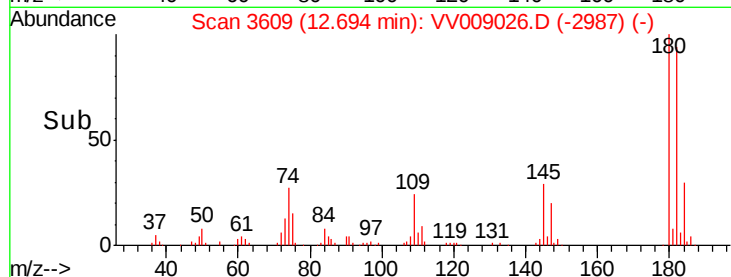
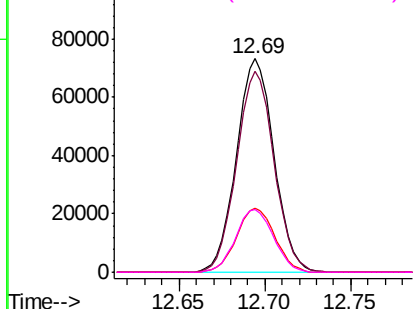
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

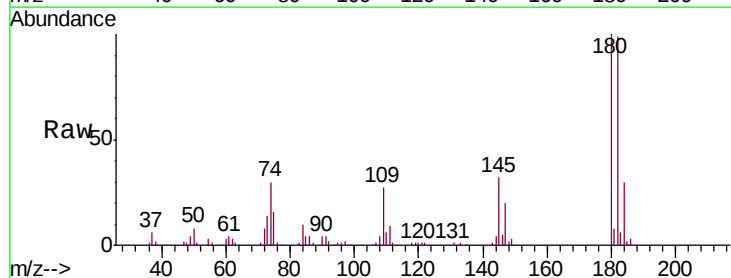
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 23.187 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009026.D
 Acq: 18 Dec 2018 20:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.4	116.0
145	31.3	25.6	38.4

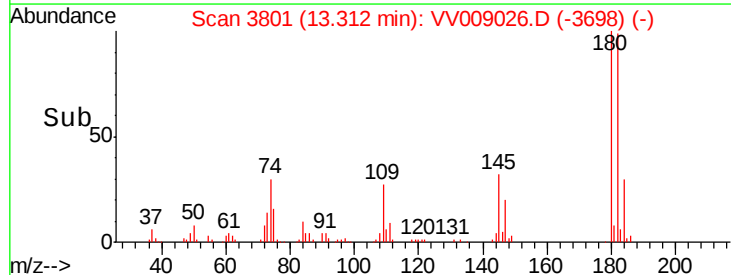
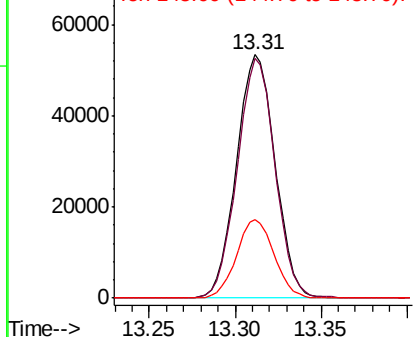


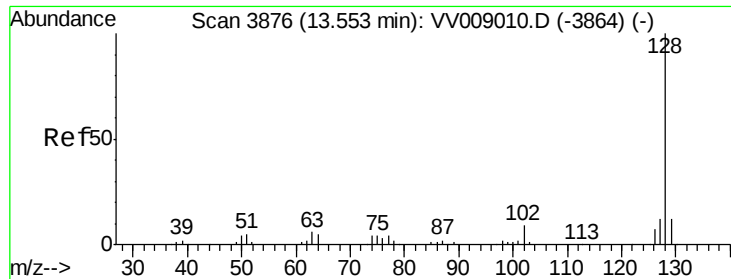
Abundance

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: 23.395 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD02565

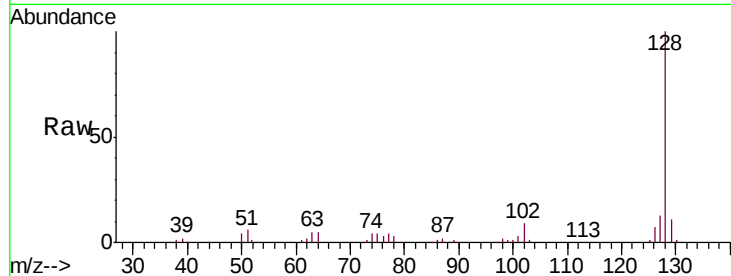
Tgt Ion:128 Resp: 144554

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

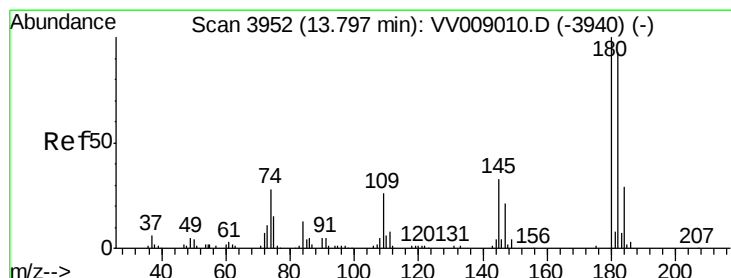
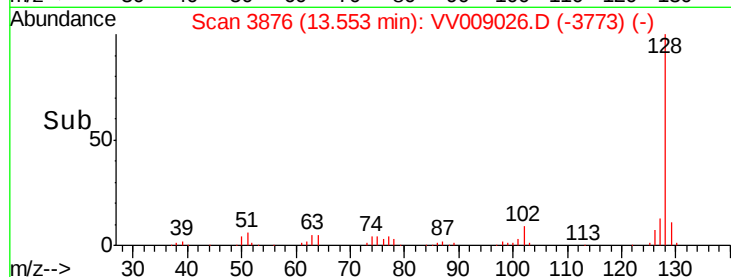
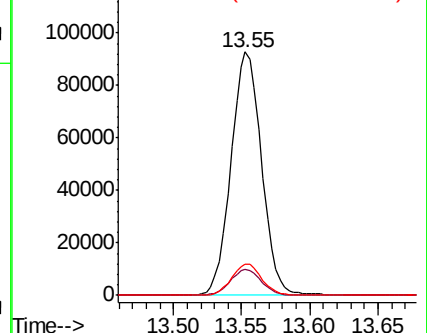
127 12.7 10.0 15.0



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: 23.074 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009026.D

Acq: 18 Dec 2018 20:57

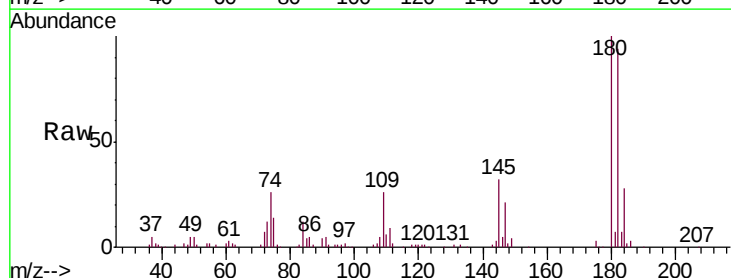
Tgt Ion:180 Resp: 76465

Ion Ratio Lower Upper

180 100

182 93.6 76.1 114.1

145 32.7 26.7 40.1



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

