

Data File : VV011386.D
Acq On : 11 Jun 2019 10:14
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00545

Quant Time: Jun 12 02:29:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 12 02:23:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	148881	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	144073	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	64379	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	44122	3.91	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.20%
7) Chloroethane-d5	1.55	69	40202	4.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.80%
11) 1,1-Dichloroethene-d2	2.12	63	100145	4.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.80%
20) 2-Butanone-d5	3.94	46	150357	59.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.40%
24) Chloroform-d	4.40	84	99380	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
26) 1,2-Dichloroethane-d4	5.08	65	56900	5.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.00%
32) Benzene-d6	5.09	84	187882	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
36) 1,2-Dichloropropane-d6	6.11	67	58806	4.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.60%
41) Toluene-d8	7.36	98	176495	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.20%
43) trans-1,3-Dichloropropene-	7.66	79	19722	3.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.00%
46) 2-Hexanone-d5	8.13	63	114673	53.63	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.26%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	47607	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	62669	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	67300	4.583	ug/L 98
3) Chloromethane	1.25	50	64049	4.512	ug/L 99
5) Vinyl chloride	1.32	62	67003	4.892	ug/L 98
6) Bromomethane	1.51	94	27123	3.806	ug/L 98
8) Chloroethane	1.57	64	41632	4.756	ug/L 96
9) Trichlorofluoromethane	1.75	101	90688	4.823	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	48499	5.025	ug/L 96
12) 1,1-Dichloroethene	2.13	96	43905	4.681	ug/L 95
13) Acetone	2.19	43	99596	58.487	ug/L 98
14) Carbon disulfide	2.30	76	115037	4.043	ug/L 99
15) Methyl Acetate	2.46	43	24377	5.390	ug/L 96
16) Methylene chloride	2.52	84	49882	5.161	ug/L 97
17) Methyl tert-butyl Ether	2.81	73	126577	5.055	ug/L 98
18) trans-1,2-Dichloroethene	2.78	96	48829	4.649	ug/L 96
19) 1,1-Dichloroethane	3.22	63	97215	4.693	ug/L 99
21) 2-Butanone	4.03	43	149596	57.044	ug/L 96
22) cis-1,2-Dichloroethene	3.96	96	54167	4.657	ug/L 96

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00545

Quant Time: Jun 12 02:29:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 12 02:23:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	20507	4.599	ug/L	91
25) Chloroform	4.42	83	96206	4.497	ug/L	98
27) 1,2-Dichloroethane	5.18	62	65723	5.027	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	79705	4.338	ug/L	99
30) Cyclohexane	4.71	56	86020	4.222	ug/L	96
31) Carbon tetrachloride	4.87	117	65434	4.260	ug/L	98
33) Benzene	5.14	78	208787	4.554	ug/L	100
34) Trichloroethene	5.96	95	54242	4.580	ug/L	99
35) Methylcyclohexane	6.17	83	83706	4.274	ug/L	99
37) 1,2-Dichloropropane	6.22	63	51977	4.555	ug/L	100
38) Bromodichloromethane	6.55	83	59642	4.228	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	68640	4.112	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	378268	52.059	ug/L	99
42) Toluene	7.43	91	226458	4.635	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	52567	4.142	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	34643	4.743	ug/L	94
47) Tetrachloroethene	8.02	164	39384	4.601	ug/L	97
48) 2-Hexanone	8.18	43	274323	54.133	ug/L	98
49) Dibromochloromethane	8.29	129	34851	4.201	ug/L	100
50) 1,2-Dibromoethane	8.40	107	31148	4.486	ug/L	96
51) Chlorobenzene	8.92	112	139918	4.696	ug/L	99
52) Ethylbenzene	9.05	91	250721	4.620	ug/L	99
53) m,p-xylene	9.18	106	92606	4.615	ug/L	100
54) o-xylene	9.59	106	91761	4.659	ug/L	98
55) Styrene	9.60	104	150821	4.702	ug/L	95
56) Isopropylbenzene	9.97	105	245104	4.624	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	45010	5.083	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	33037	4.964	ug/L	99
61) Bromoform	9.77	173	16136	4.172	ug/L	94
62) 1,3-Dichlorobenzene	11.23	146	99798	4.688	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	98482	4.766	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	96721	4.915	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	5826	4.132	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	71964	4.699	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	53556	4.606	ug/L	96
69) Naphthalene	13.55	128	89277	4.691	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	49767	4.773	ug/L	97

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

Data File : VV011386.D

Acq On : 11 Jun 2019 10:14

Operator : SY/MD

Sample : VSTDCCC005

Misc : 25ML/MSV0A V/WATER

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00545

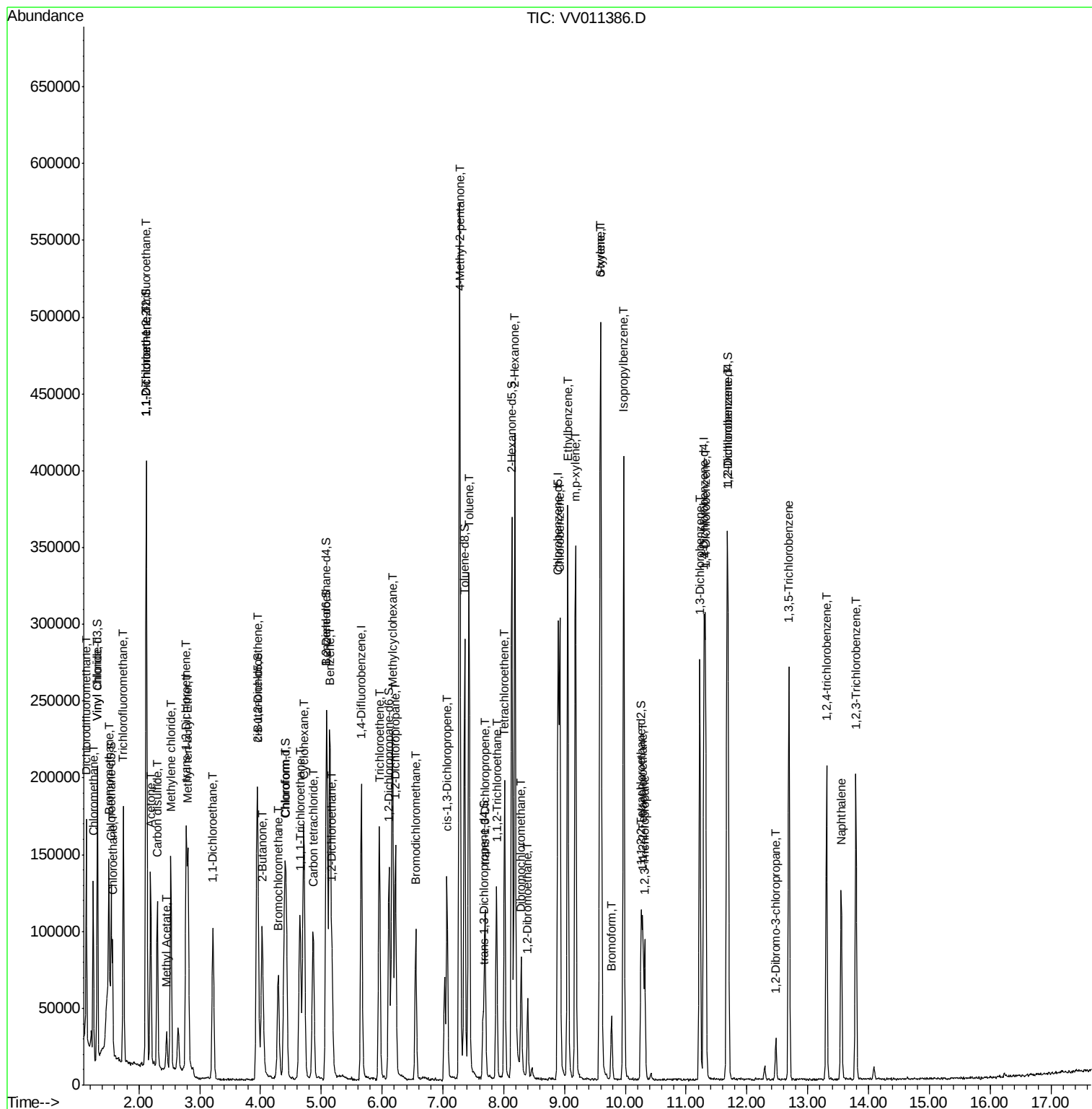
Quant Time: Jun 12 02:29:30 2019

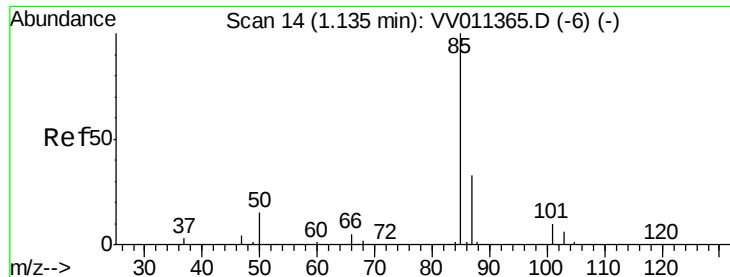
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR060419WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Jun 12 02:23:01 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.583 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

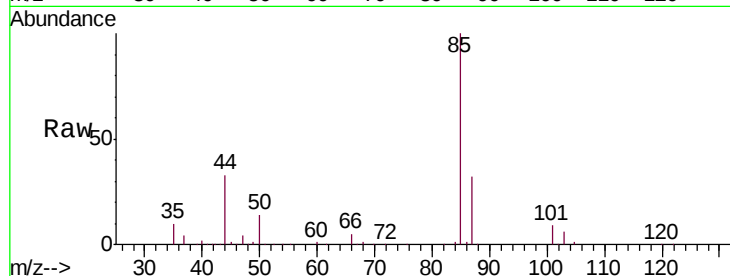
VSTD00545

Tgt Ion: 85.00 Resp: 67300

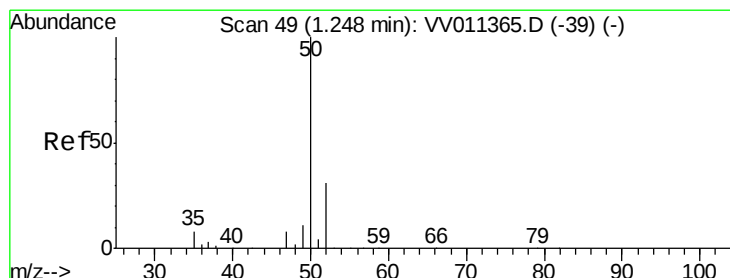
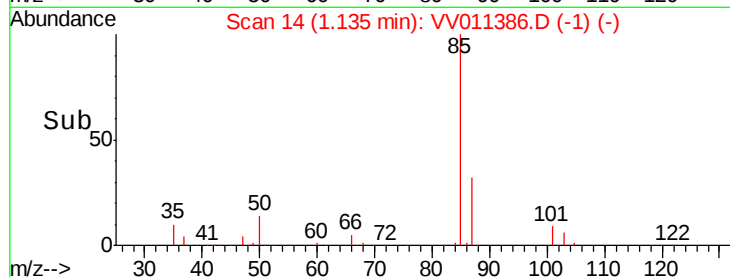
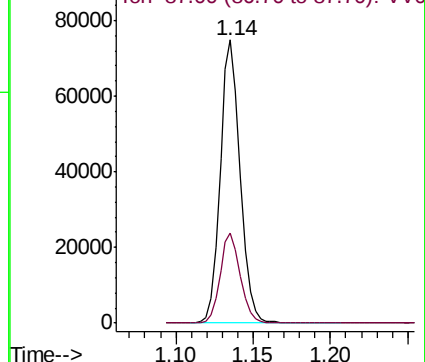
Ion Ratio Lower Upper

85 100

87 32.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV011386.D (-1) (-)



#3

Chloromethane

Concen: 4.512 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011386.D

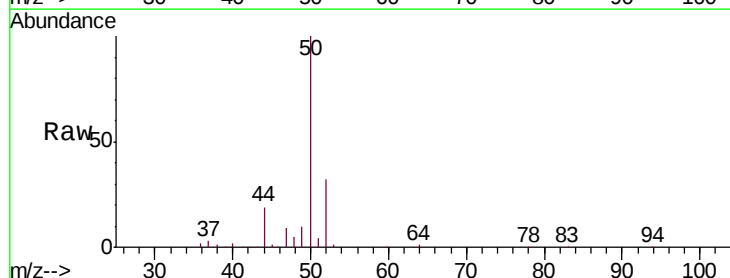
Acq: 11 Jun 2019 10:14

Tgt Ion: 50.00 Resp: 64049

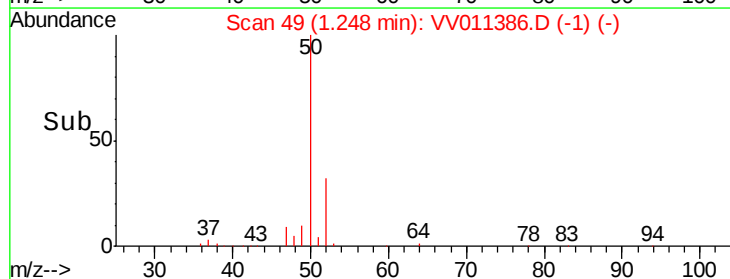
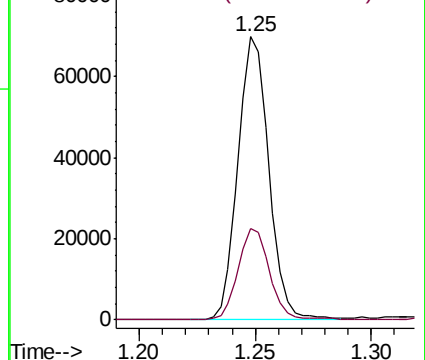
Ion Ratio Lower Upper

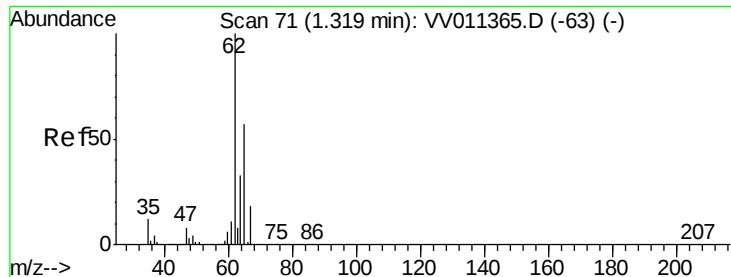
50 100

52 32.4 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VV011386.D (-1) (-)





#5

Vinyl chloride

Concen: 4.892 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

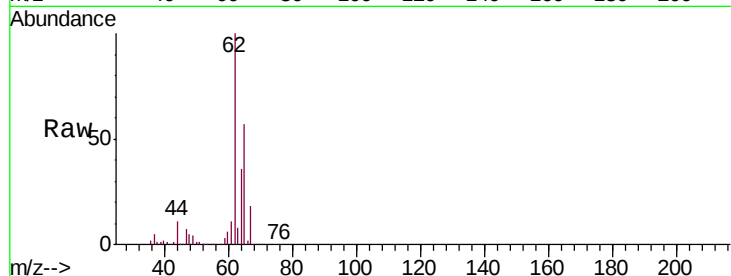
VSTD00545

Tgt Ion: 62 Resp: 67003

Ion Ratio Lower Upper

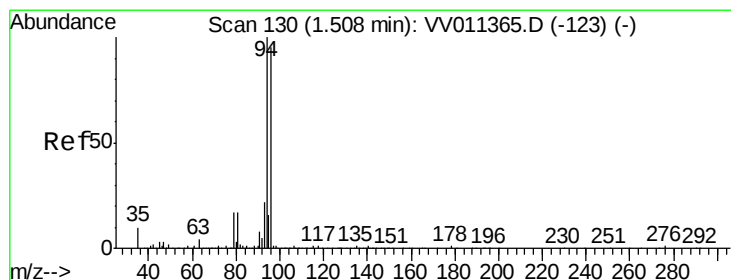
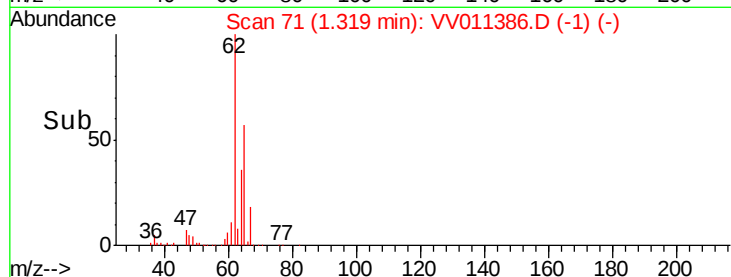
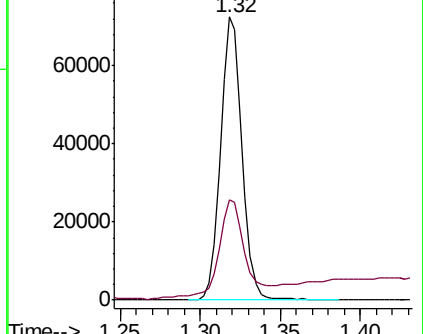
62 100

64 35.6 25.9 48.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 3.806 ug/L

RT: 1.51 min Scan# 129

Delta R.T. -0.00 min

Lab File: VV011386.D

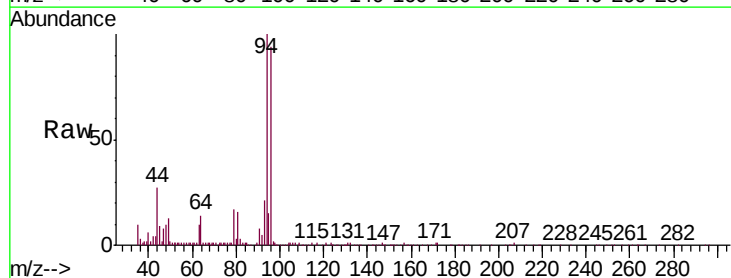
Acq: 11 Jun 2019 10:14

Tgt Ion: 94 Resp: 27123

Ion Ratio Lower Upper

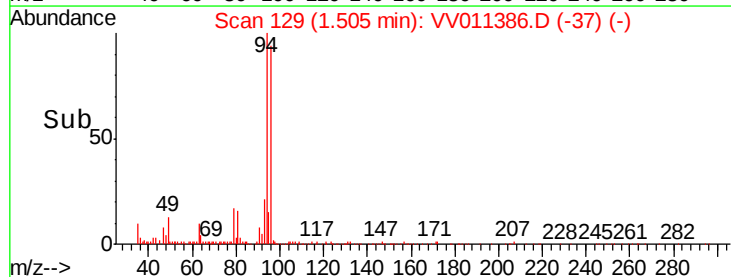
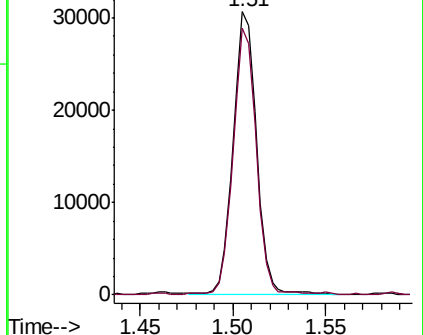
94 100

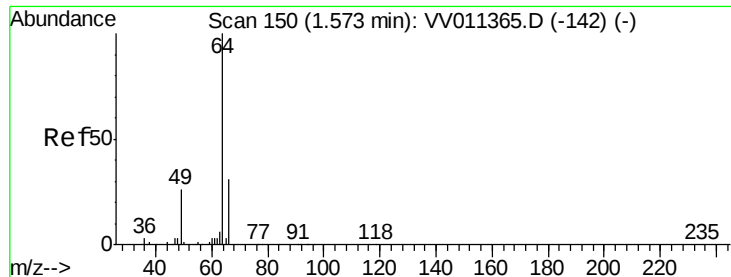
96 94.1 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.756 ug/L

RT: 1.57 min Scan# 148

Delta R.T. -0.01 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

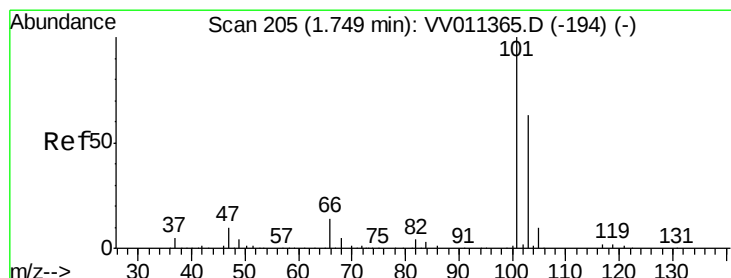
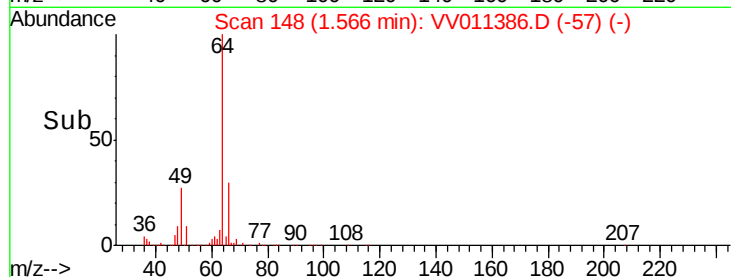
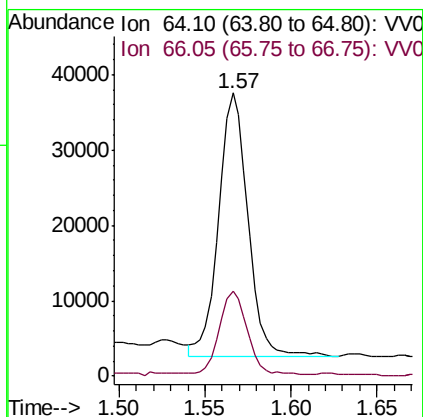
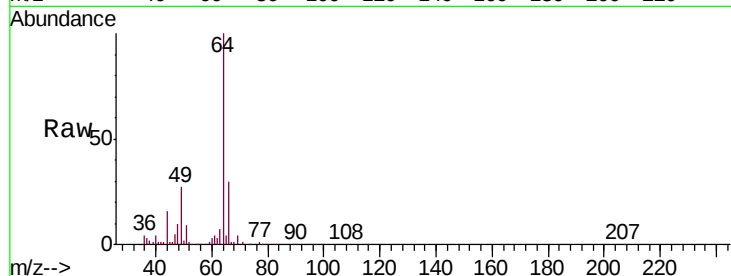
VSTD00545

Tgt Ion: 64 Resp: 41632

Ion Ratio Lower Upper

64 100

66 29.9 19.4 36.0



#9

Trichlorofluoromethane

Concen: 4.823 ug/L

RT: 1.75 min Scan# 204

Delta R.T. -0.00 min

Lab File: VV011386.D

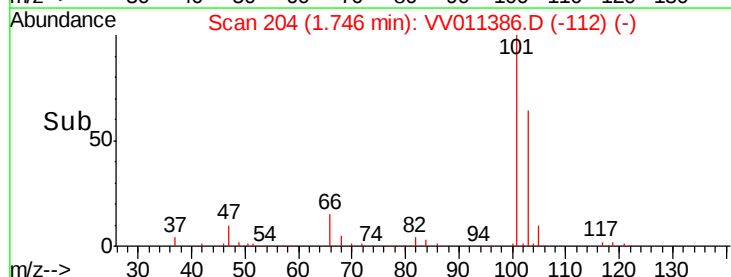
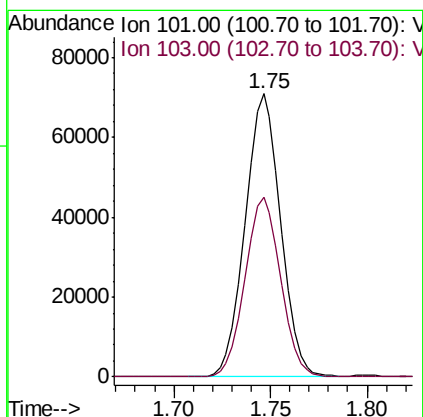
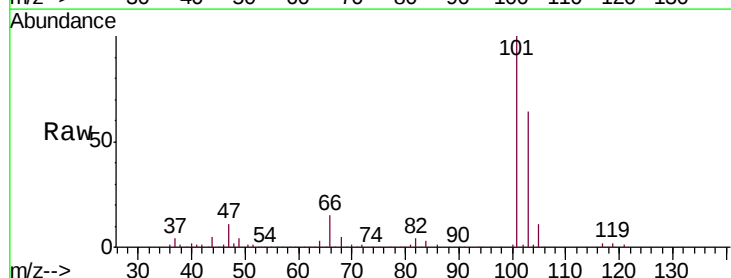
Acq: 11 Jun 2019 10:14

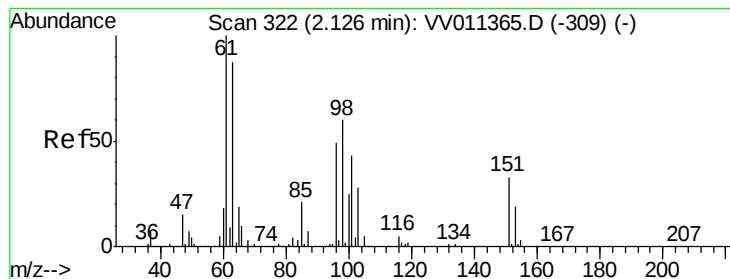
Tgt Ion: 101 Resp: 90688

Ion Ratio Lower Upper

101 100

103 63.6 50.8 76.2





#10

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

Concen: 5.025 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD00545

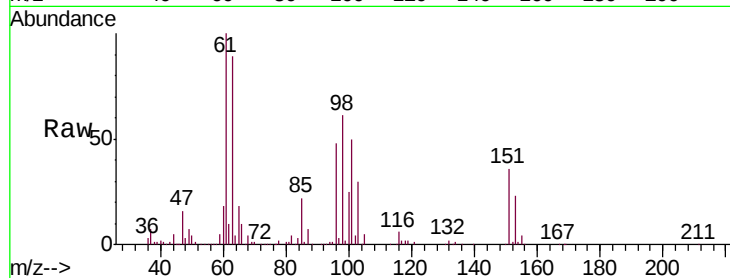
Tgt Ion: 101 Resp: 48499

Ion Ratio Lower Upper

101 100

85 48.0 35.5 53.3

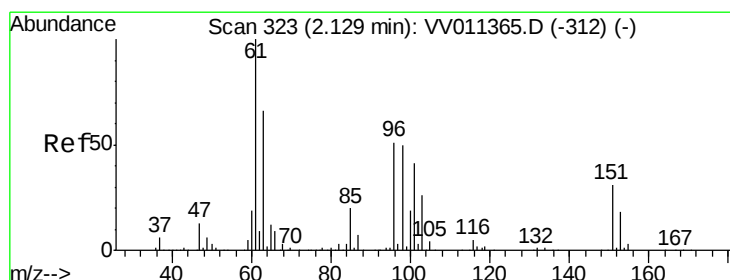
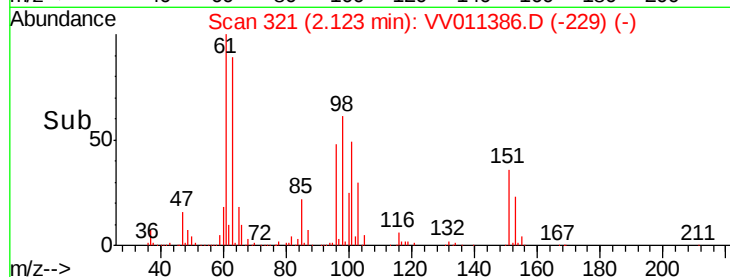
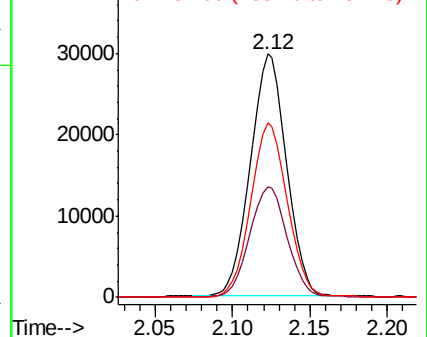
151 73.5 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.681 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

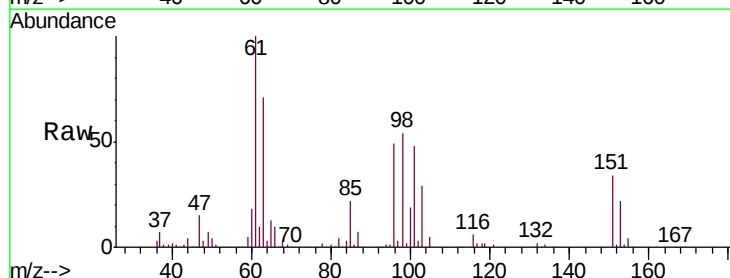
Tgt Ion: 96 Resp: 43905

Ion Ratio Lower Upper

96 100

61 203.0 139.8 259.6

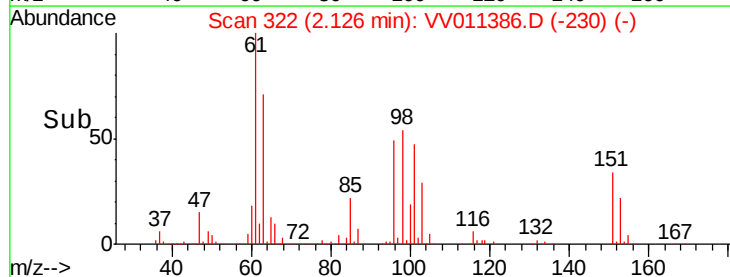
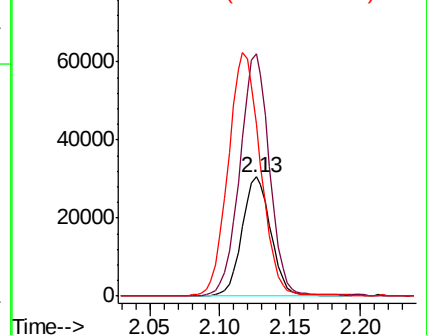
63 144.5 94.3 175.1

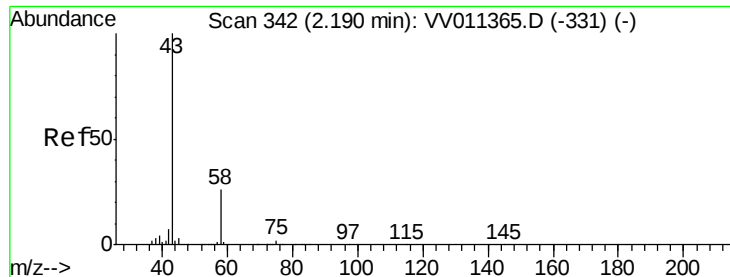


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 58.487 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

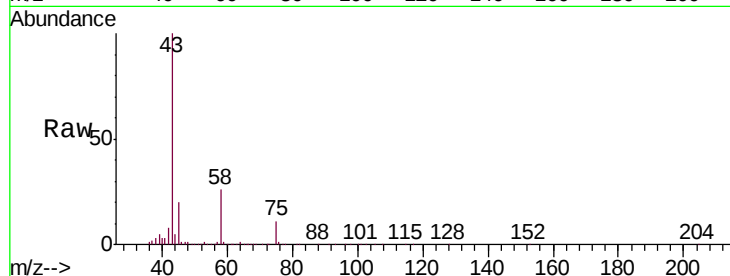
VSTD00545

Tgt Ion: 43 Resp: 99596

Ion Ratio Lower Upper

43 100

58 26.7 0.0 55.2



Abundance Ion 43.05 (42.75 to 43.75): VV011386.D (-249) (-)

Ion 58.05 (57.75 to 58.75): VV011386.D (-249) (-)

2.19

60000

40000

20000

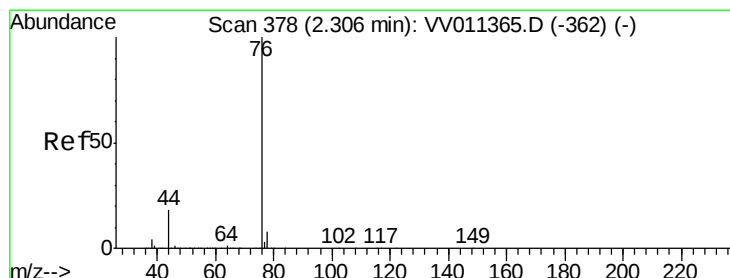
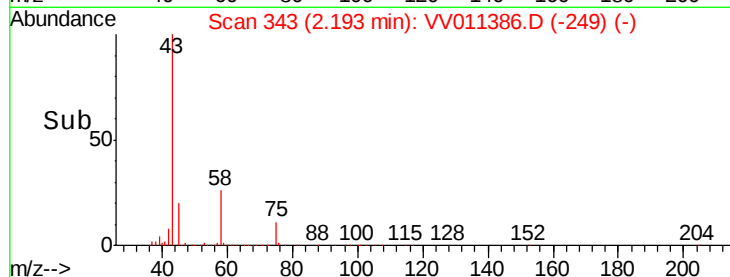
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Time-->

2.15

2.20

2.25



#14

Carbon disulfide

Concen: 4.043 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.00 min

Lab File: VV011386.D

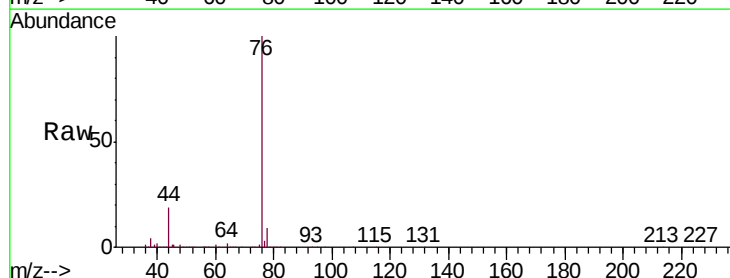
Acq: 11 Jun 2019 10:14

Tgt Ion: 76 Resp: 115037

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV011386.D (-285) (-)

Ion 78.00 (77.70 to 78.70): VV011386.D (-285) (-)

2.30

80000

60000

40000

20000

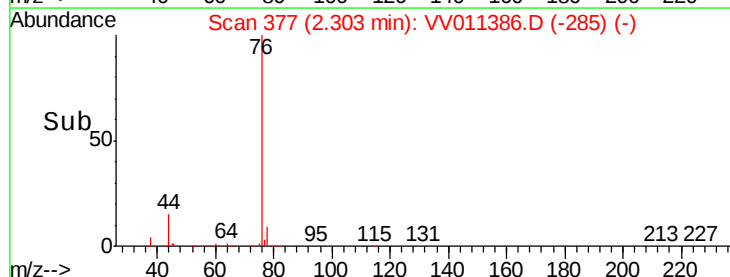
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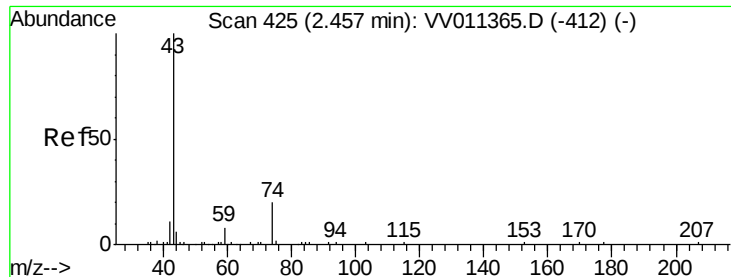
Time-->

2.25

2.30

2.35

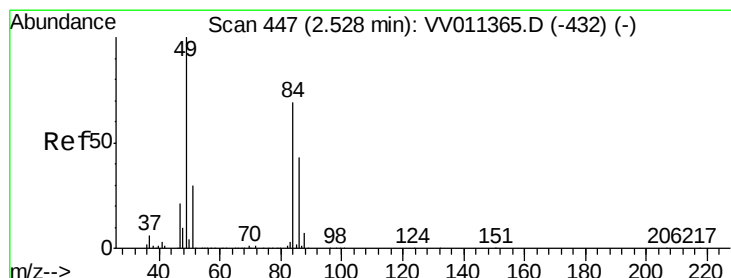
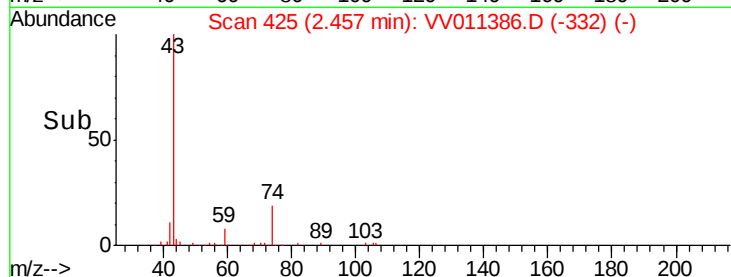
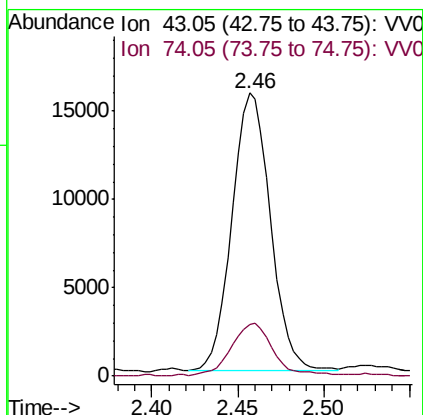
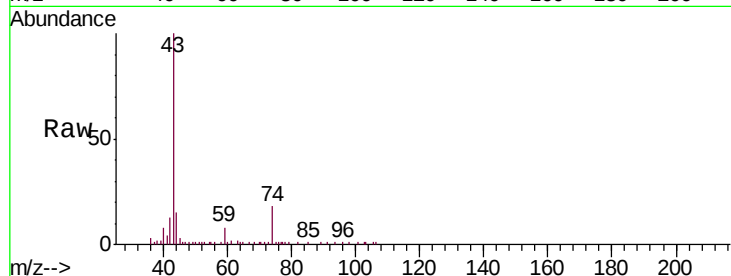




#15
Methyl Acetate
Concen: 5.390 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

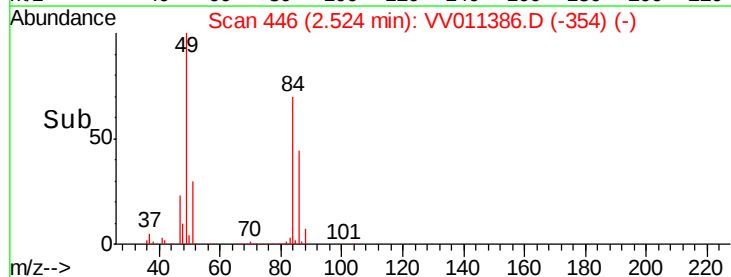
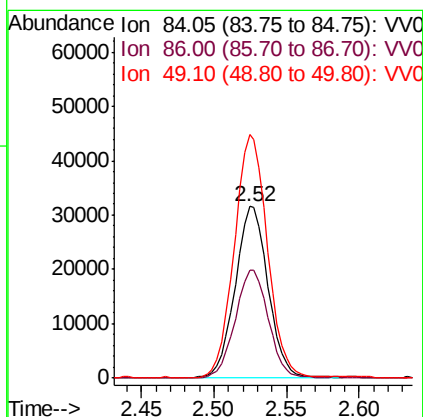
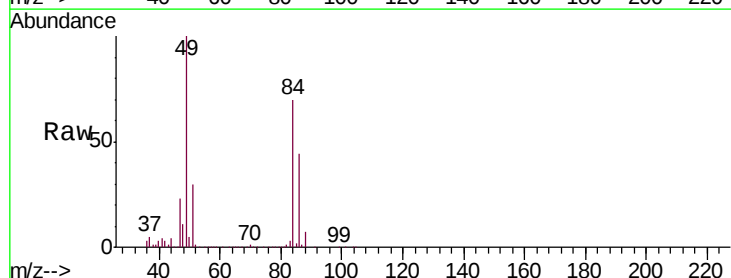
Instrument :
MSVOA_V
ClientSampleId :
VSTD00545

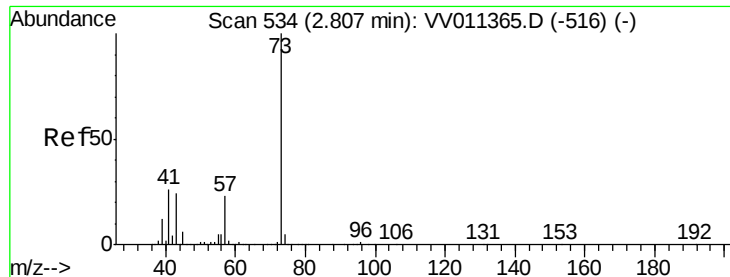
Tgt Ion: 43 Resp: 24377
Ion Ratio Lower Upper
43 100
74 21.1 18.5 27.7



#16
Methylene chloride
Concen: 5.161 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

Tgt Ion: 84 Resp: 49882
Ion Ratio Lower Upper
84 100
86 62.7 44.9 83.3
49 142.1 102.1 189.5

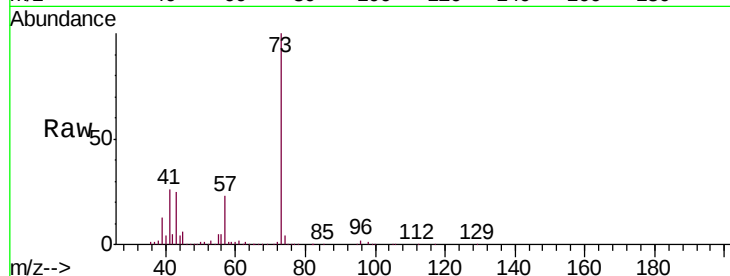




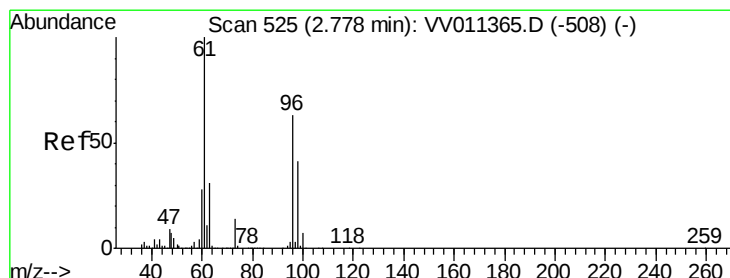
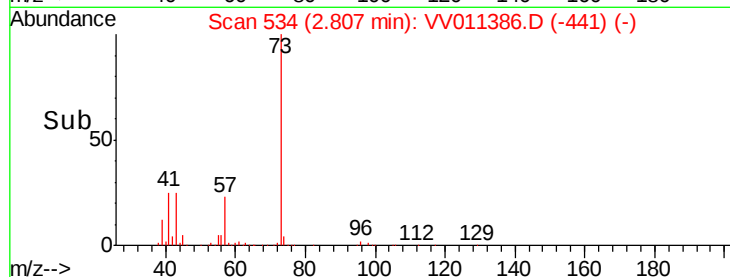
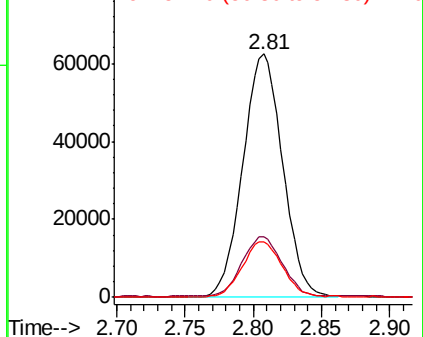
#17
Methyl tert-butyl Ether
Concen: 5.055 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

Instrument :
MSVOA_V
ClientSampleId :
VSTD00545

Tgt Ion: 73 Resp: 126577
Ion Ratio Lower Upper
73 100
43 24.4 18.7 28.1
57 23.2 18.1 27.1

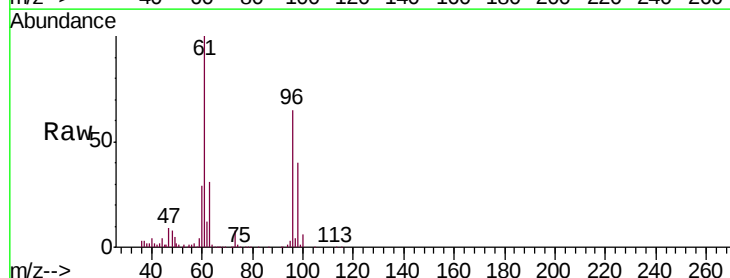


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

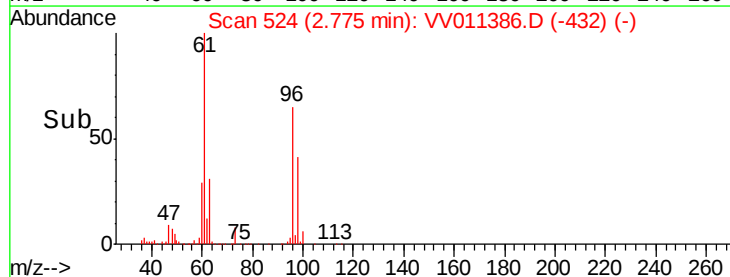
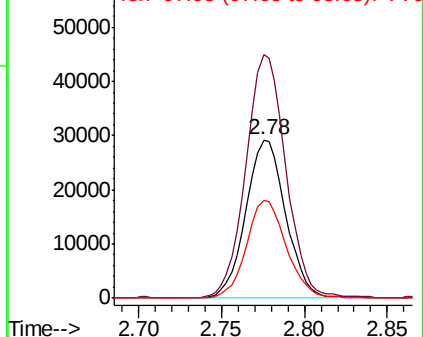


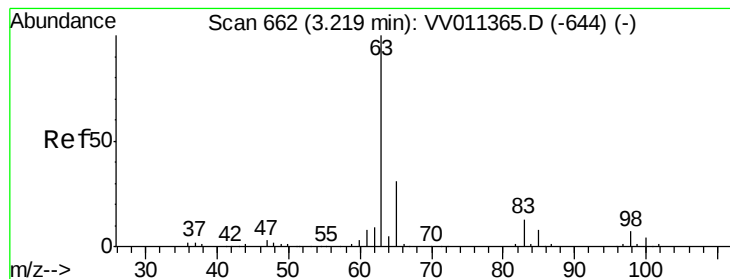
#18
trans-1,2-Dichloroethene
Concen: 4.649 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

Tgt Ion: 96 Resp: 48829
Ion Ratio Lower Upper
96 100
61 154.1 104.0 193.2
98 62.2 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 4.693 ug/L

RT: 3.22 min Scan# 662

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD00545

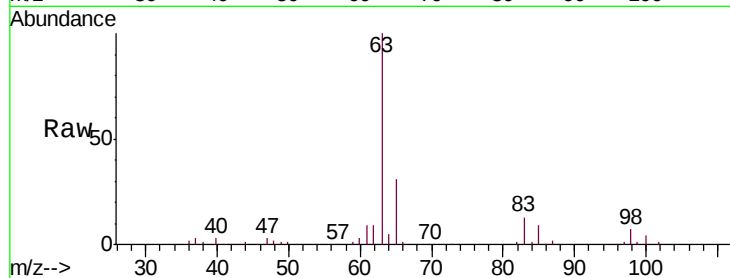
Tgt Ion: 63 Resp: 97215

Ion Ratio Lower Upper

63 100

65 30.8 22.1 41.1

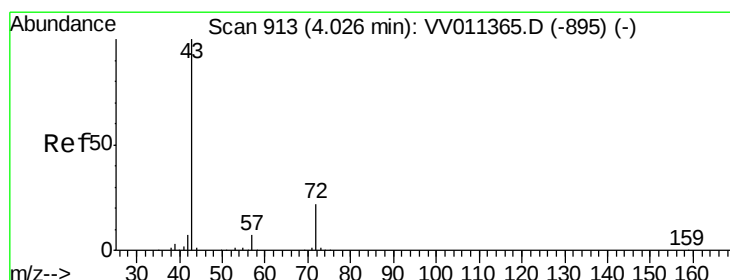
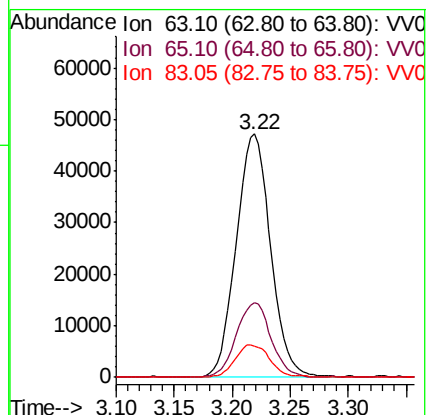
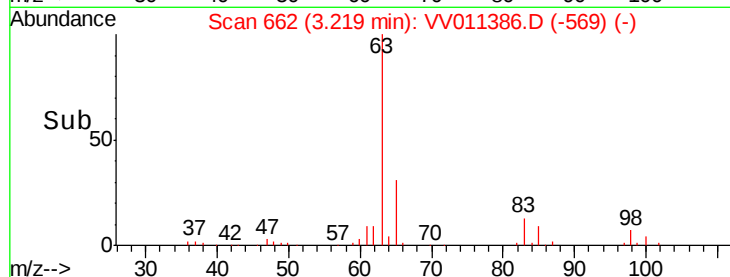
83 12.7 9.2 17.0



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 57.044 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.00 min

Lab File: VV011386.D

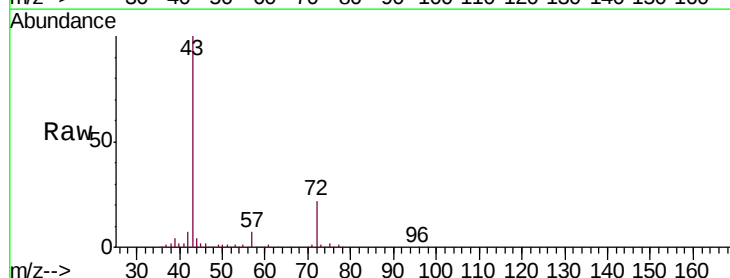
Acq: 11 Jun 2019 10:14

Tgt Ion: 43 Resp: 149596

Ion Ratio Lower Upper

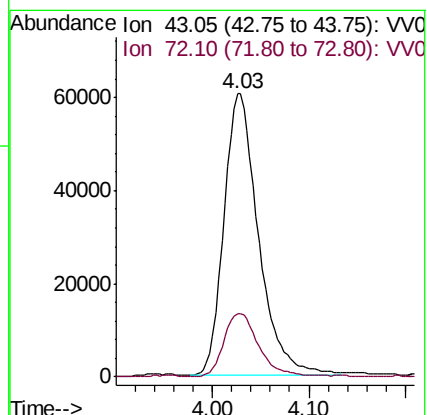
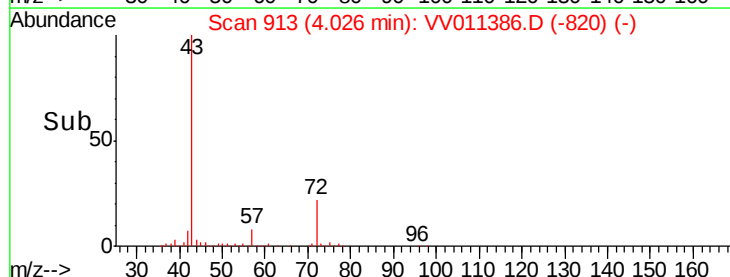
43 100

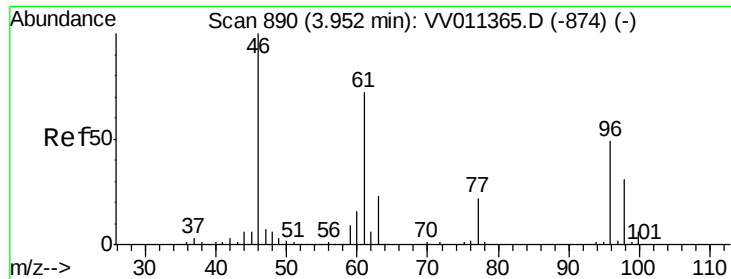
72 23.2 12.7 38.1



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 72.10 (71.80 to 72.80): VV0



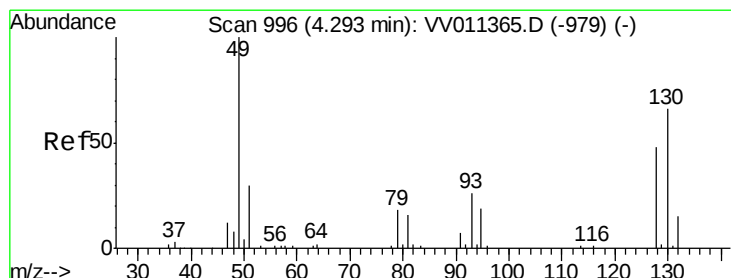
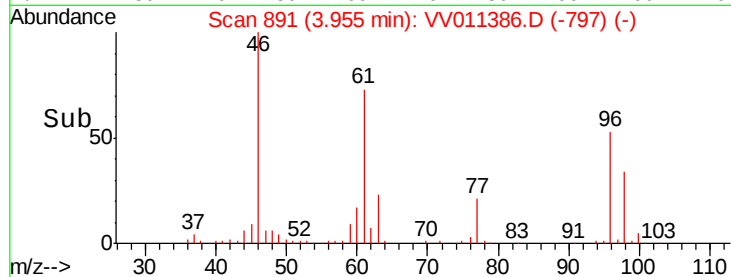
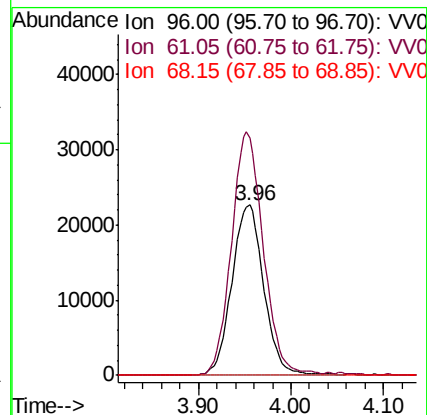
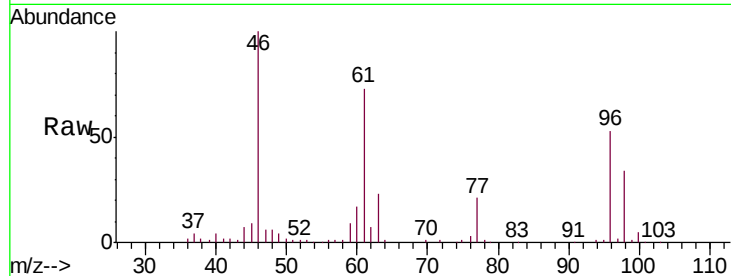


#22

cis-1,2-Dichloroethene
Concen: 4.657 ug/L
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

Instrument :
MSVOA_V
ClientSampleId :
VSTD00545

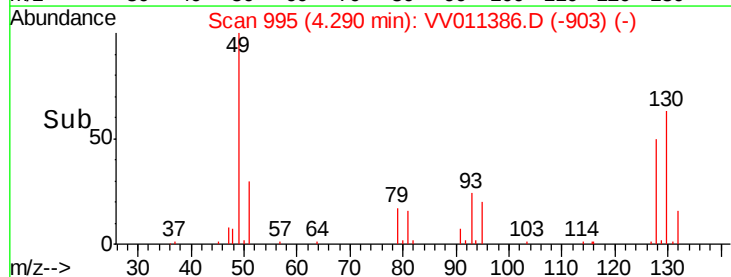
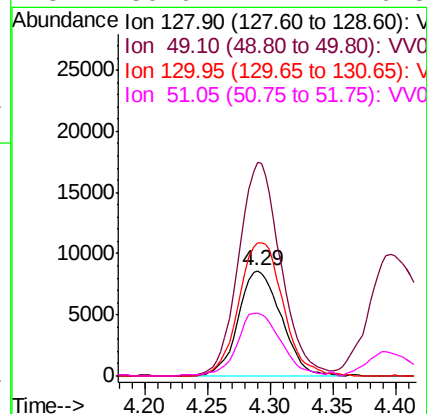
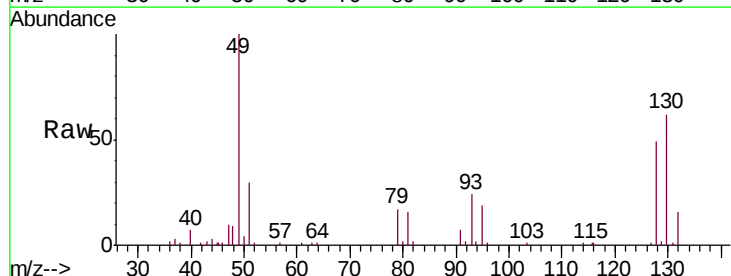
Tgt Ion: 96 Resp: 54167
Ion Ratio Lower Upper
96 100
61 139.3 100.8 187.2
68 0.0 0.0 0.0

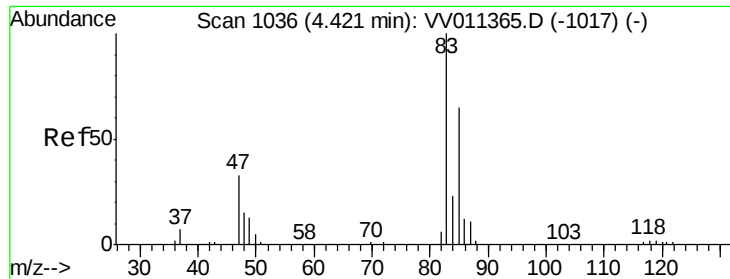


#23

Bromochloromethane
Concen: 4.599 ug/L
RT: 4.29 min Scan# 995
Delta R.T. -0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

Tgt Ion: 128 Resp: 20507
Ion Ratio Lower Upper
128 100
49 202.5 128.9 239.5
130 126.0 82.5 153.1
51 59.9 47.2 70.8

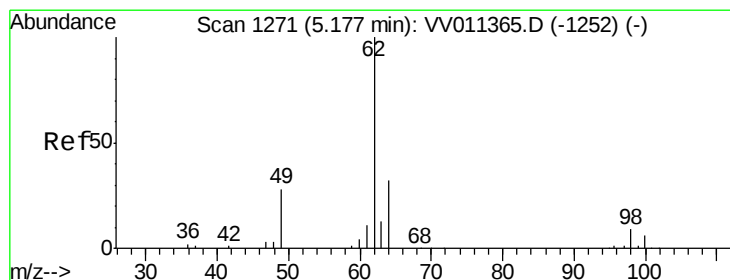
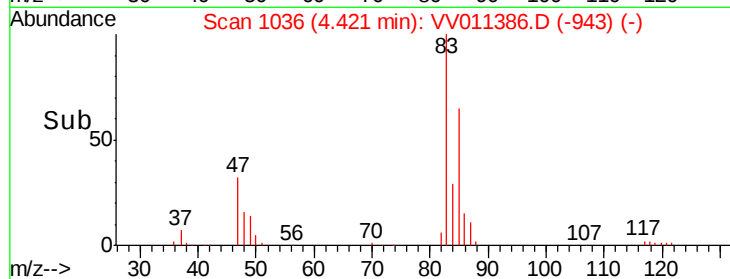
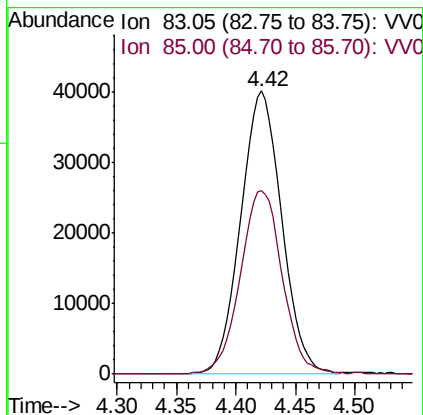
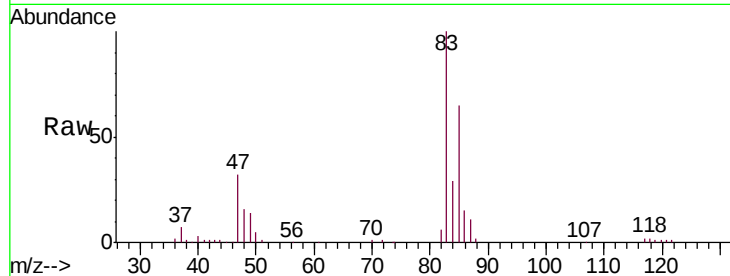




#25
Chloroform
Concen: 4.497 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

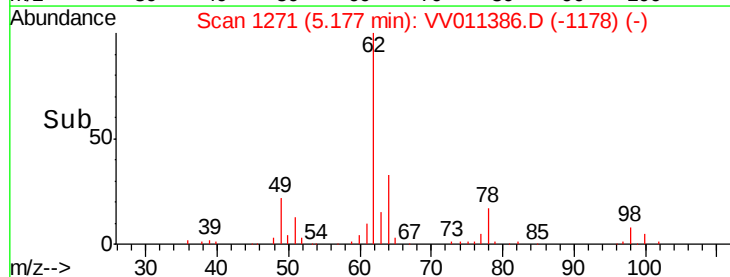
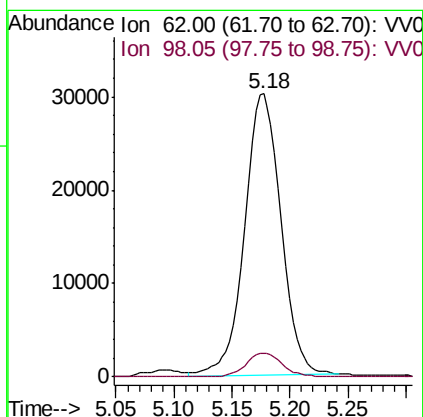
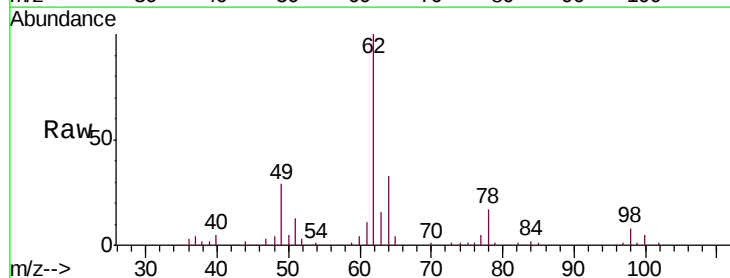
Instrument :
MSVOA_V
ClientSampled :
VSTD00545

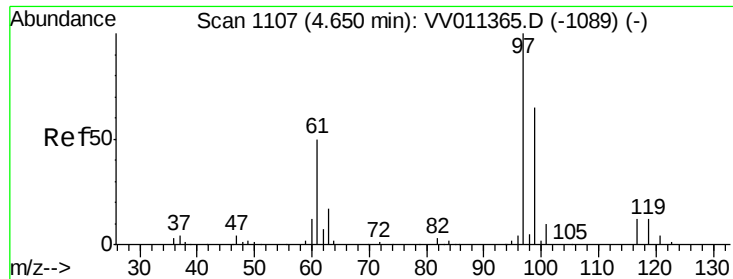
Tgt Ion: 83 Resp: 96206
Ion Ratio Lower Upper
83 100
85 64.8 44.1 81.9



#27
1,2-Dichloroethane
Concen: 5.027 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

Tgt Ion: 62 Resp: 65723
Ion Ratio Lower Upper
62 100
98 8.2 6.9 10.3

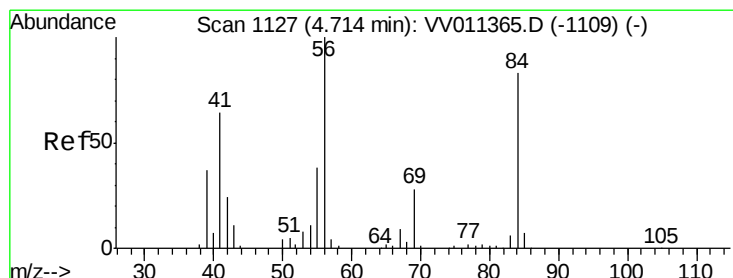
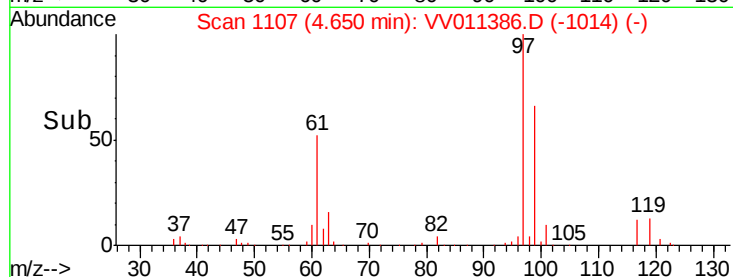
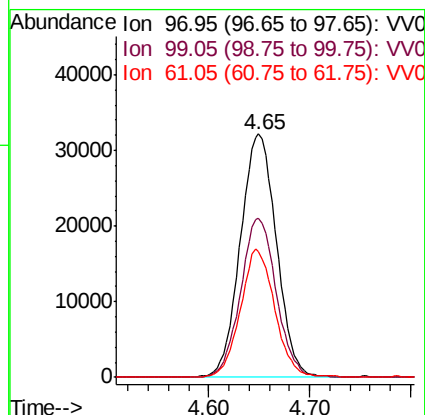
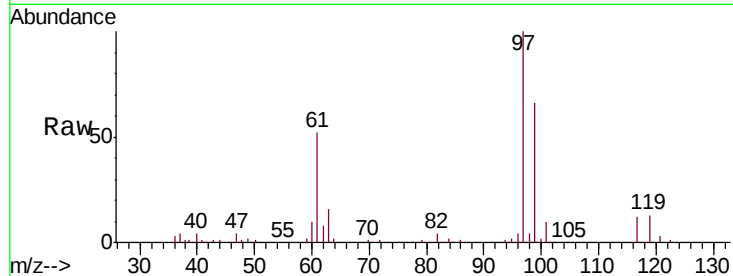




#29
 1,1,1-Trichloroethane
 Concen: 4.338 ug/L
 RT: 4.65 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

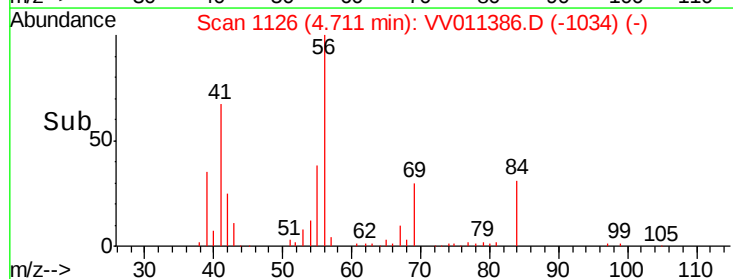
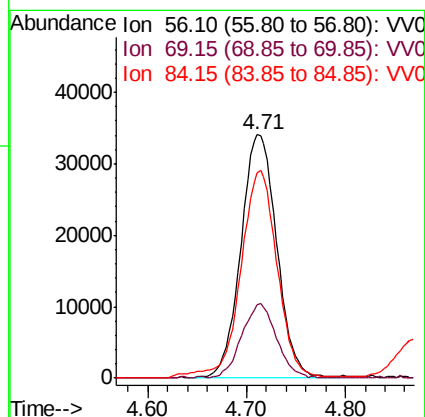
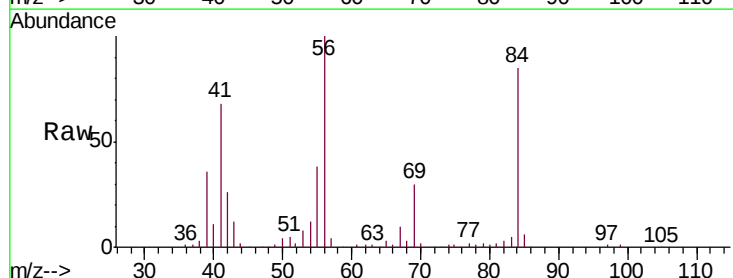
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00545

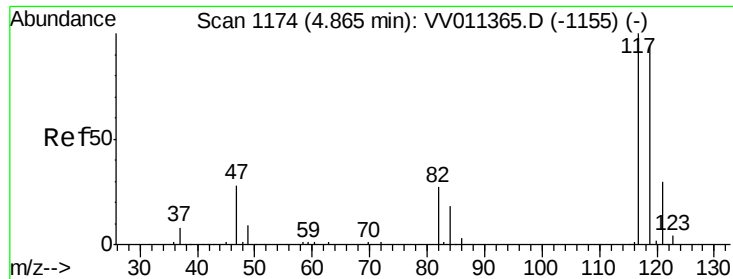
Tgt Ion: 97 Resp: 79705
 Ion Ratio Lower Upper
 97 100
 99 64.6 50.8 76.2
 61 49.3 38.9 58.3



#30
 Cyclohexane
 Concen: 4.222 ug/L
 RT: 4.71 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Tgt Ion: 56 Resp: 86020
 Ion Ratio Lower Upper
 56 100
 69 29.5 24.1 36.1
 84 87.1 66.4 99.6





#31

Carbon tetrachloride

Concen: 4.260 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

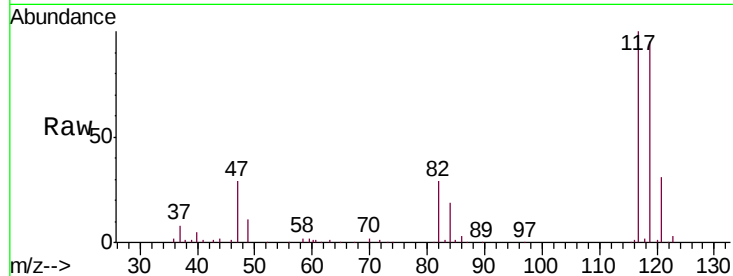
VSTD00545

Tgt Ion:117 Resp: 65434

Ion Ratio Lower Upper

117 100

119 95.4 77.9 116.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

30000

25000

20000

15000

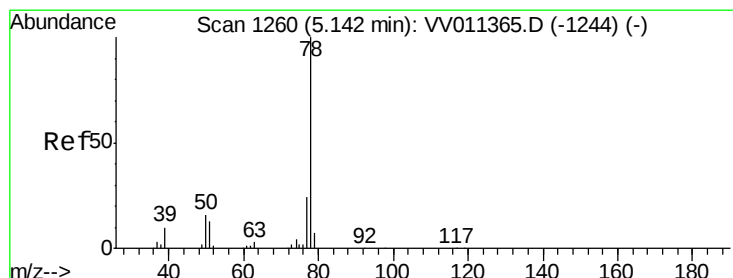
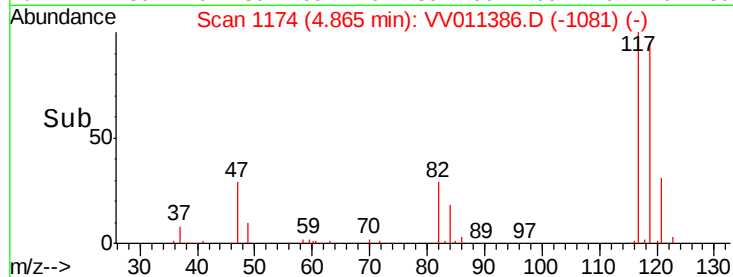
10000

5000

0

Time-->

4.75 4.80 4.85 4.90 4.95



#33

Benzene

Concen: 4.554 ug/L

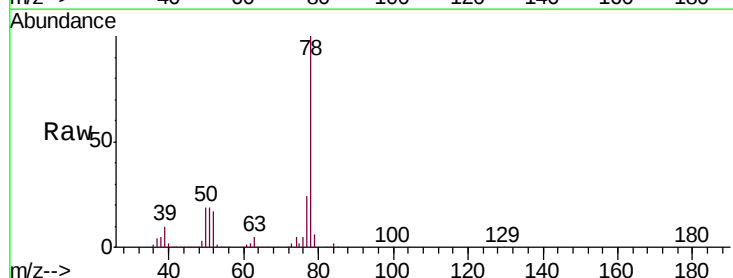
RT: 5.14 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Tgt Ion: 78 Resp: 208787



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14

100000

80000

60000

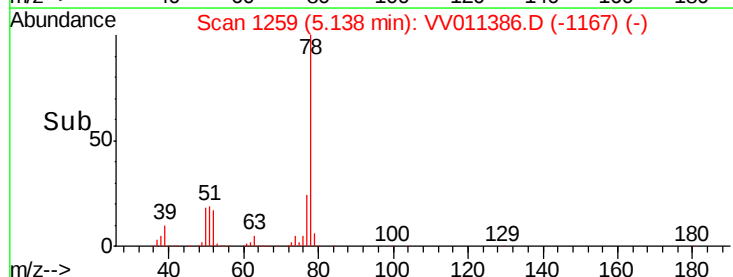
40000

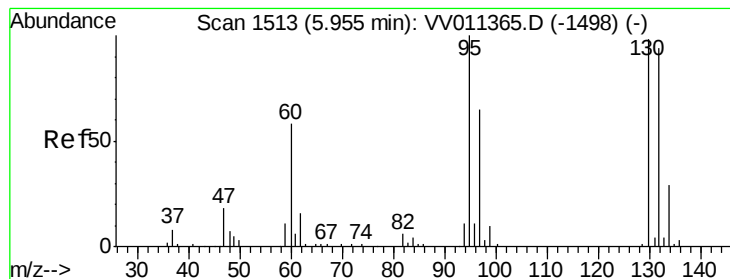
20000

0

Time-->

5.00 5.10 5.20





#34

Trichloroethene

Concen: 4.580 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD00545

Tgt Ion: 95 Resp: 54242

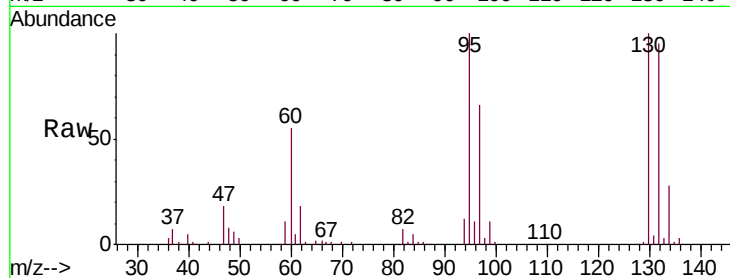
Ion Ratio Lower Upper

95 100

97 65.8 45.8 85.2

132 95.2 66.4 123.2

130 99.6 68.3 126.8

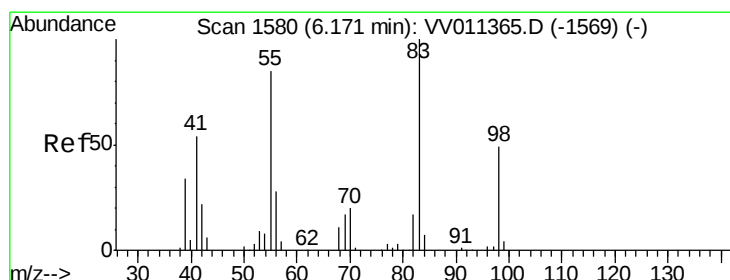
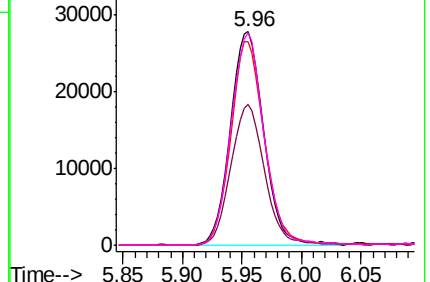
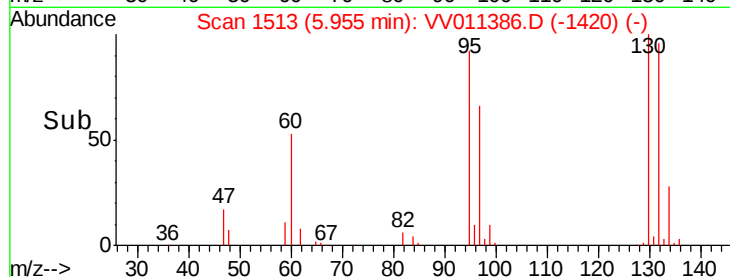


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 4.274 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

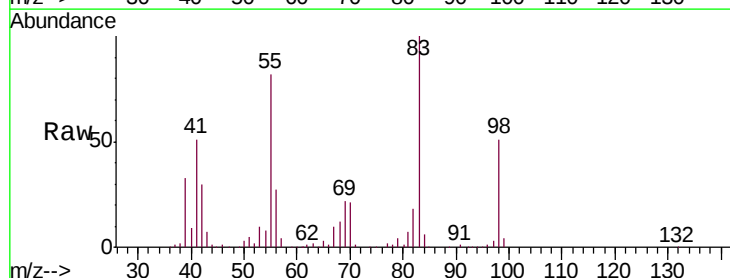
Tgt Ion: 83 Resp: 83706

Ion Ratio Lower Upper

83 100

55 83.2 67.0 100.6

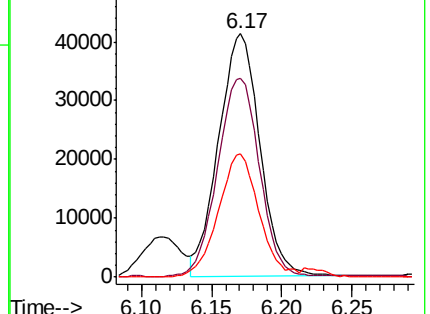
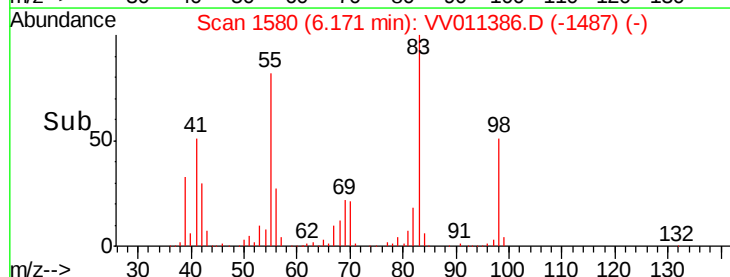
98 50.2 40.0 60.0

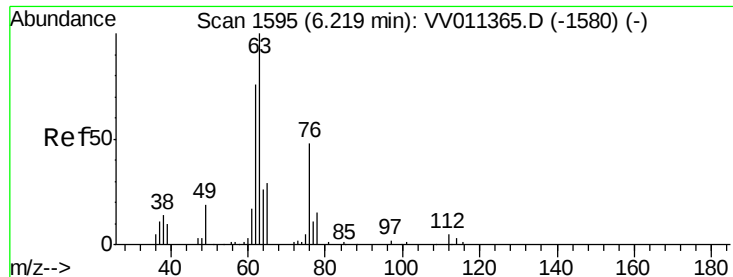


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

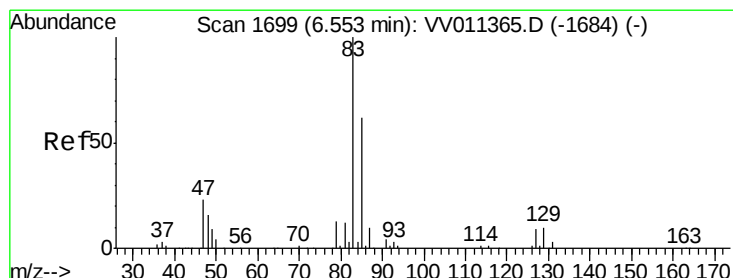
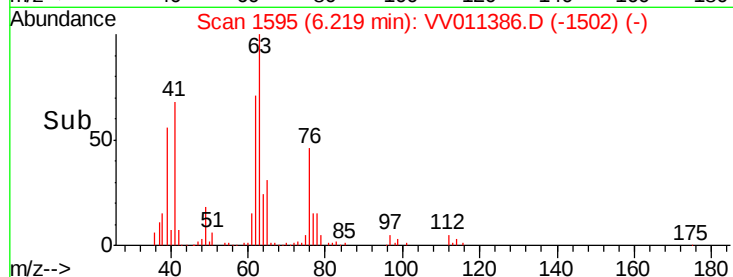
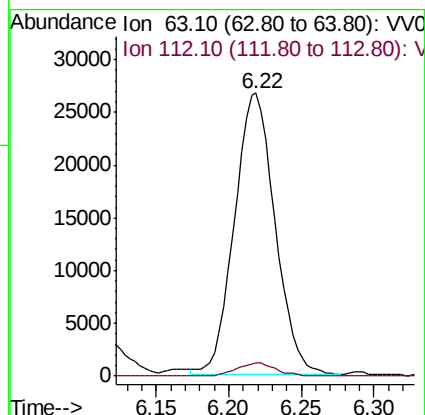
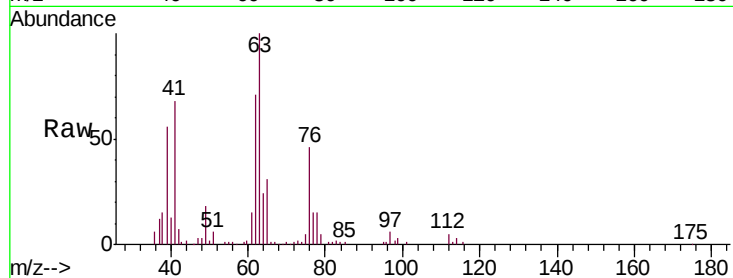




#37
 1,2-Dichloropropane
 Concen: 4.555 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

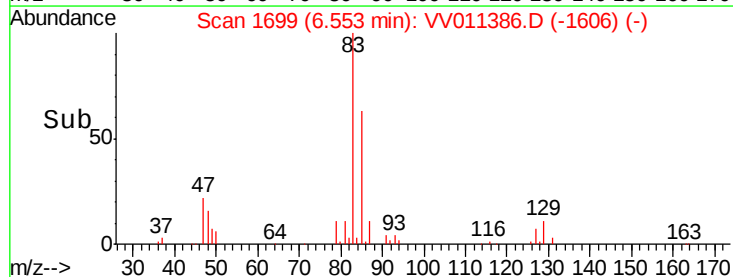
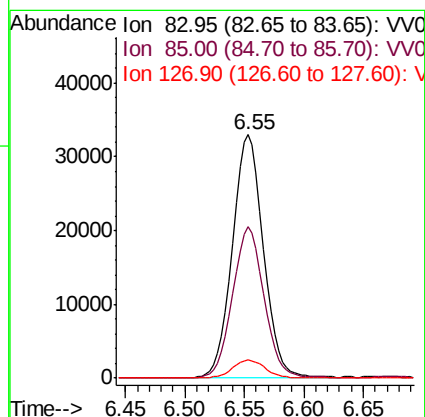
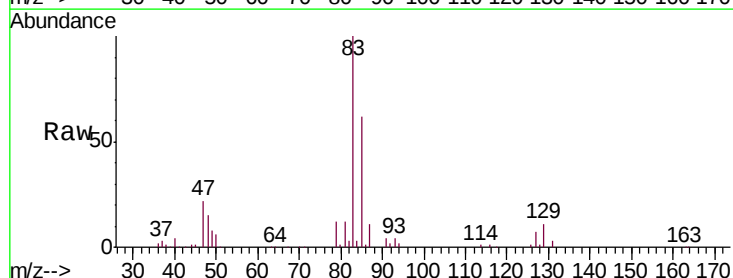
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00545

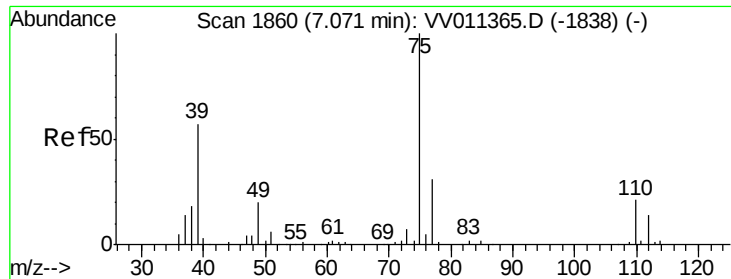
Tgt Ion: 63 Resp: 51977
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.6 5.4



#38
 Bromodichloromethane
 Concen: 4.228 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Tgt Ion: 83 Resp: 59642
 Ion Ratio Lower Upper
 83 100
 85 62.0 44.5 82.7
 127 7.3 7.0 10.4

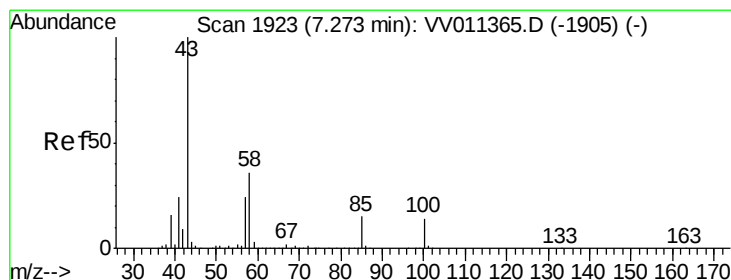
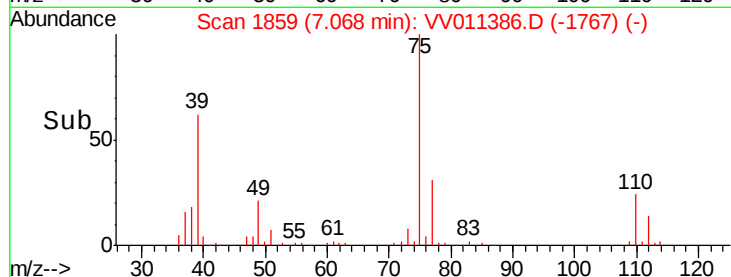
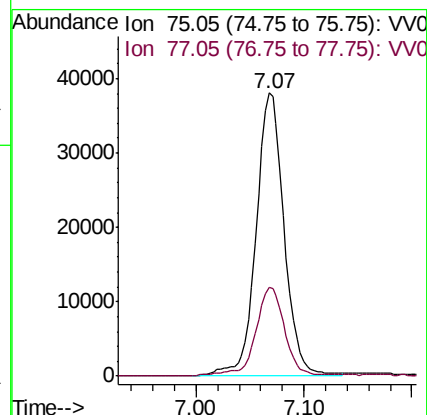
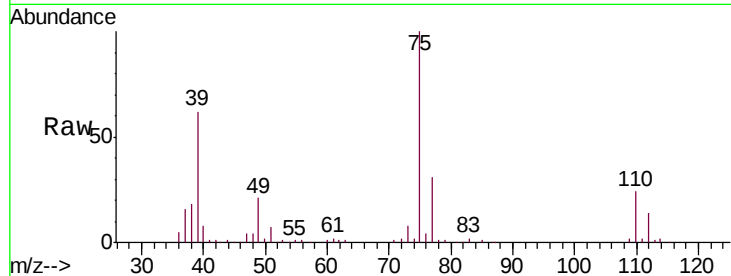




#39
 cis-1,3-Dichloropropene
 Concen: 4.112 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

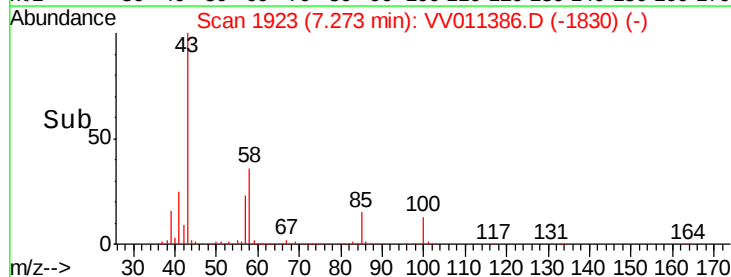
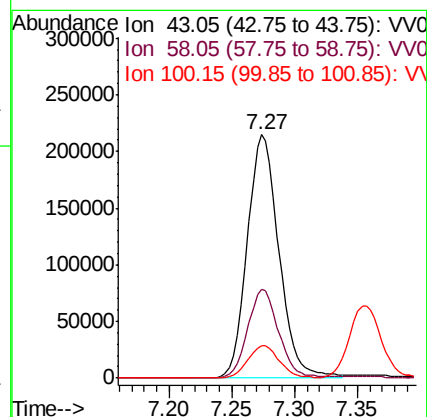
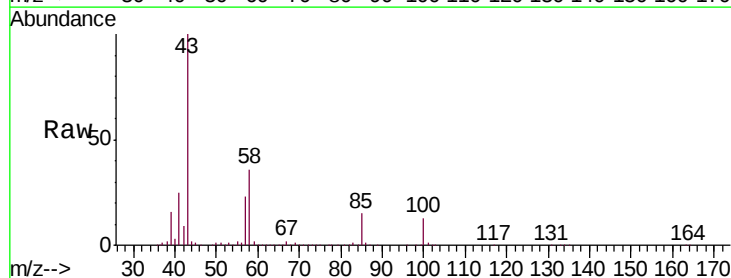
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00545

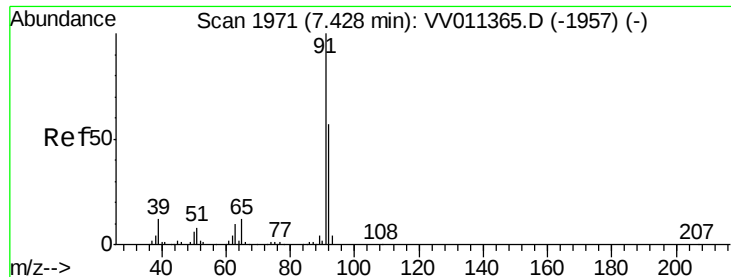
Tgt Ion: 75 Resp: 68640
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 52.059 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Tgt Ion: 43 Resp: 378268
 Ion Ratio Lower Upper
 43 100
 58 35.8 29.3 43.9
 100 13.3 10.6 16.0





#42

Toluene

Concen: 4.635 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

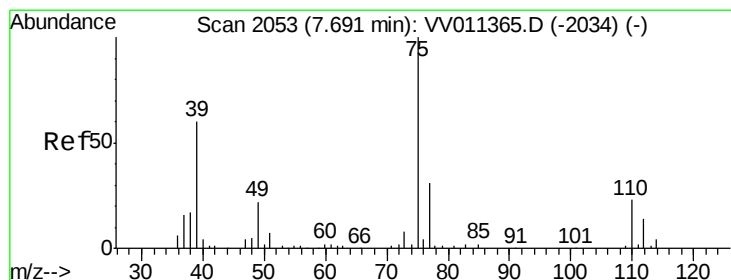
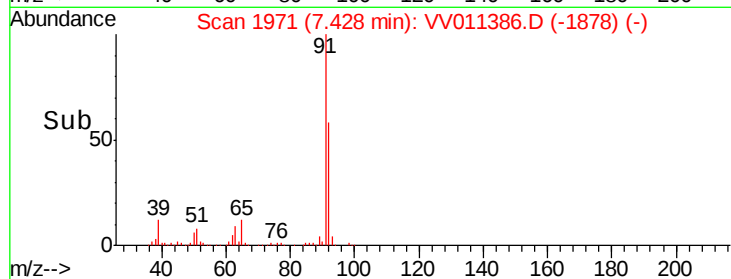
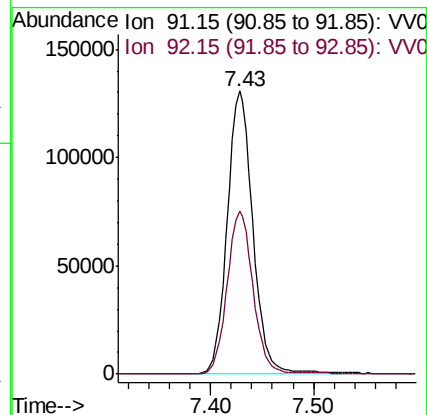
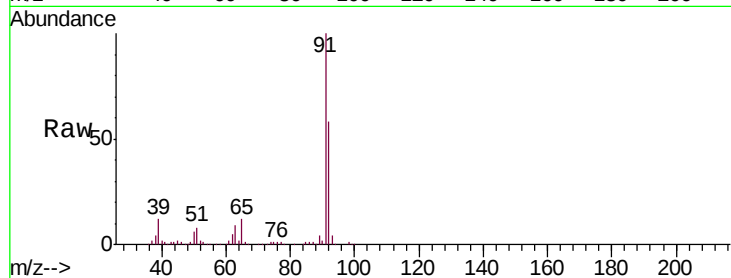
VSTD00545

Tgt Ion: 91 Resp: 226458

Ion Ratio Lower Upper

91 100

92 57.6 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 4.142 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011386.D

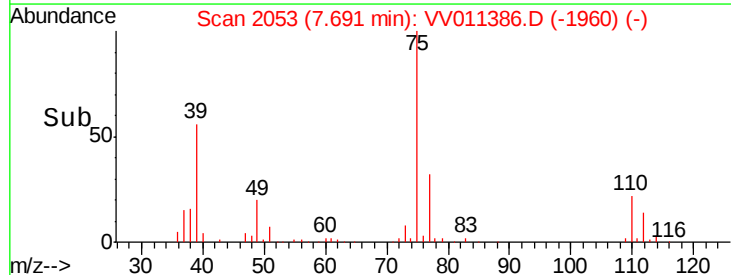
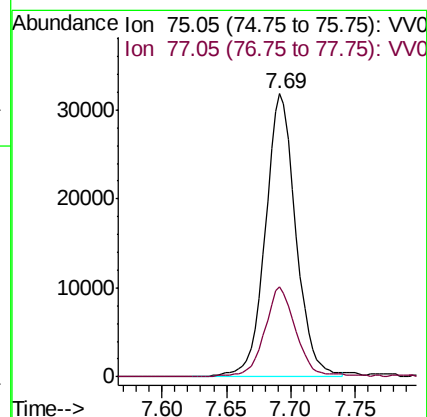
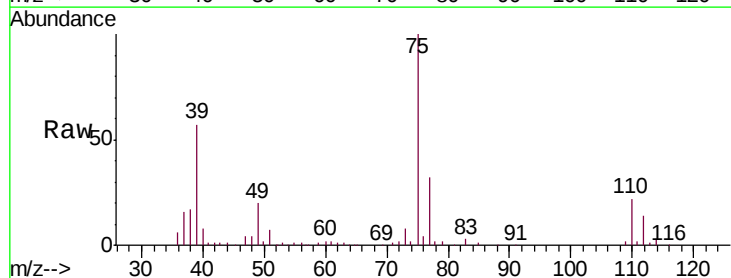
Acq: 11 Jun 2019 10:14

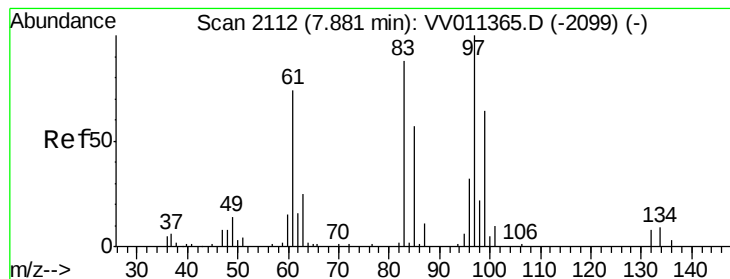
Tgt Ion: 75 Resp: 52567

Ion Ratio Lower Upper

75 100

77 31.9 23.1 42.9





#45

1,1,2-Trichloroethane

Concen: 4.743 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD00545

Tgt Ion: 97 Resp: 34643

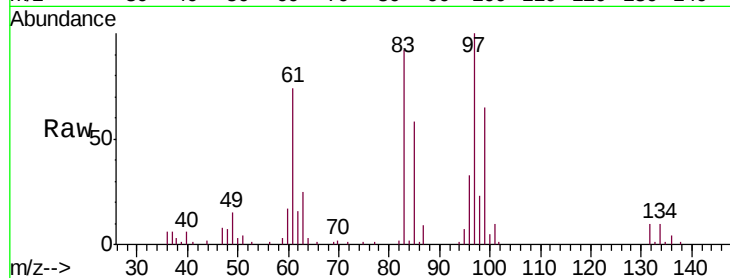
Ion Ratio Lower Upper

97 100

99 65.5 42.1 78.3

83 92.5 59.4 110.2

85 58.0 39.7 73.7



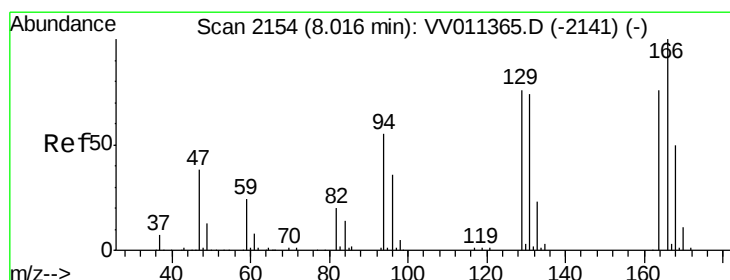
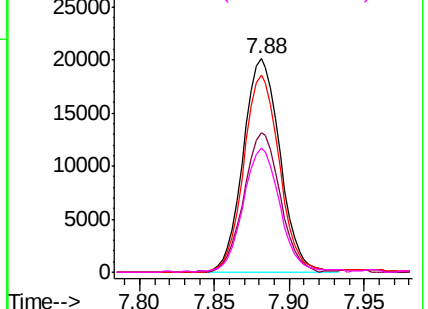
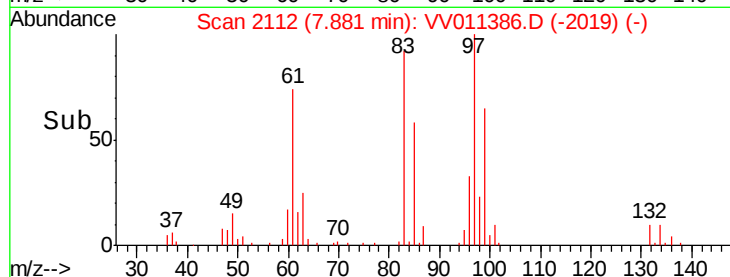
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 4.601 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Tgt Ion: 164 Resp: 39384

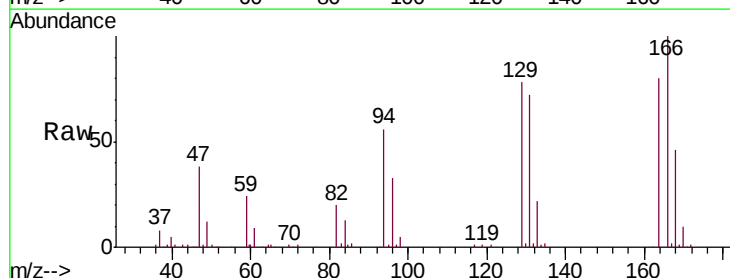
Ion Ratio Lower Upper

164 100

129 98.1 69.9 129.9

131 90.7 66.8 124.2

166 125.6 90.2 167.6



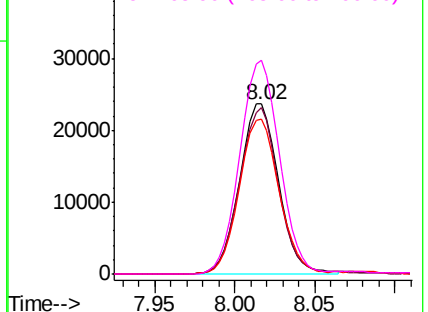
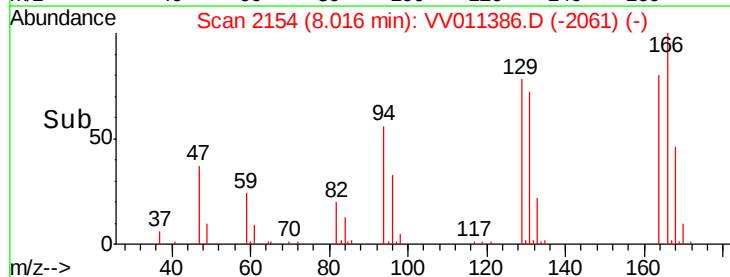
Abundance

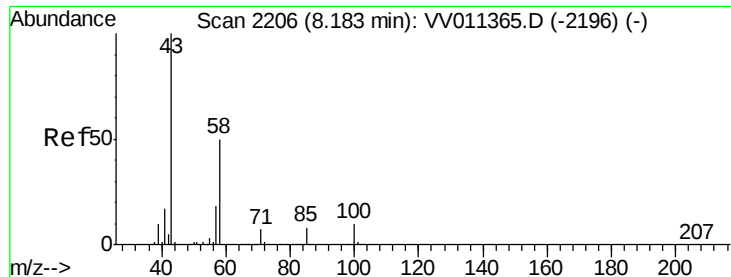
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

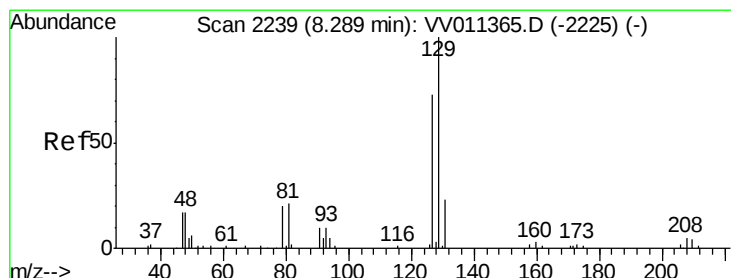
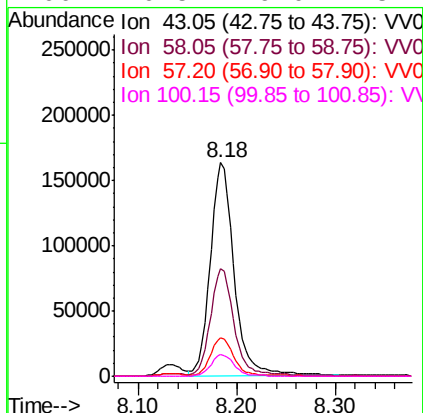
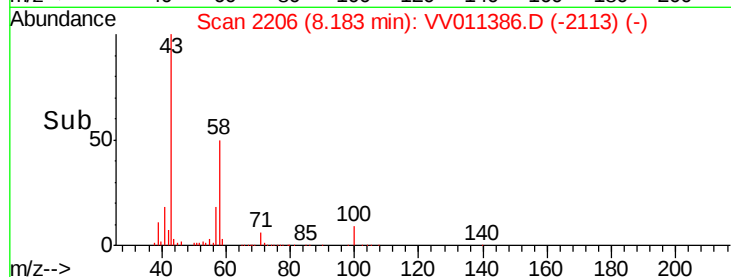
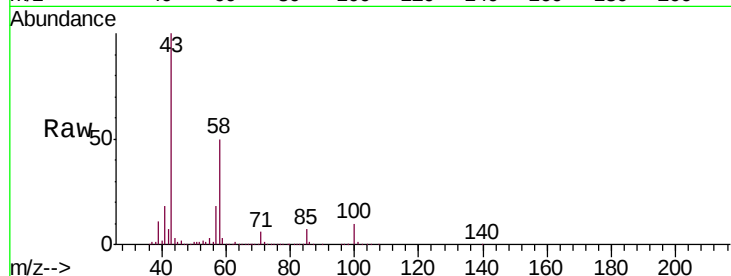




#48
2-Hexanone
Concen: 54.133 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

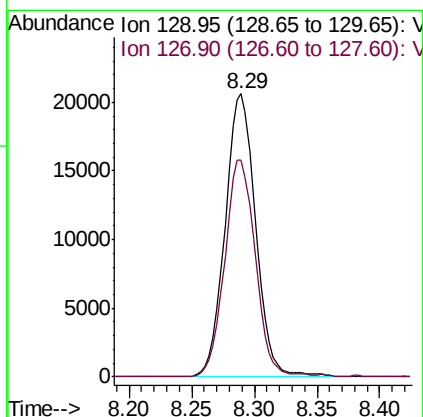
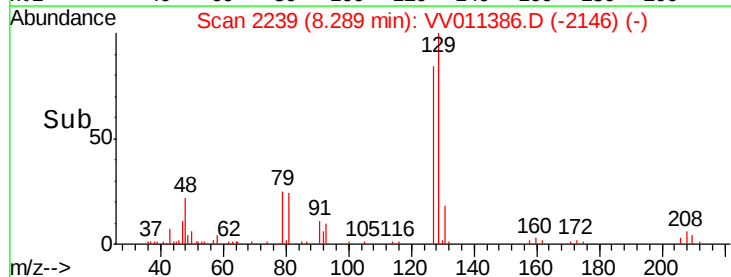
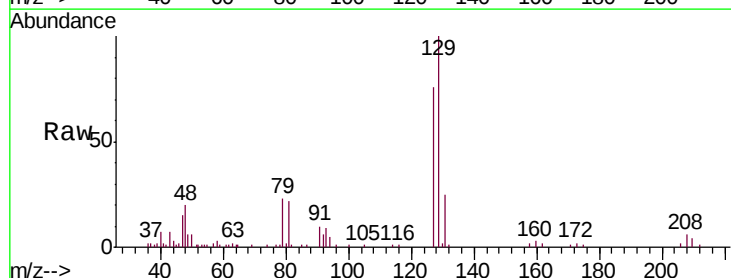
Instrument :
MSVOA_V
ClientSampleId :
VSTD00545

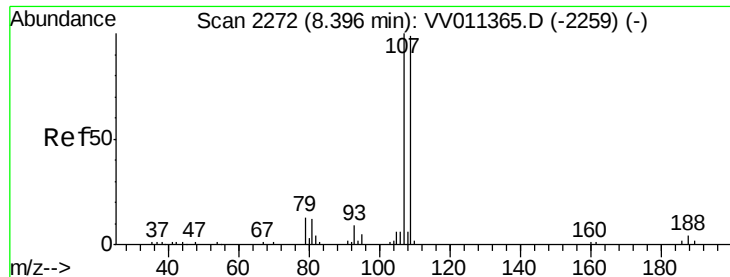
Tgt Ion: 43 Resp: 274323
Ion Ratio Lower Upper
43 100
58 50.4 41.4 62.0
57 17.0 15.0 22.4
100 10.5 9.0 13.4



#49
Dibromochloromethane
Concen: 4.201 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011386.D
Acq: 11 Jun 2019 10:14

Tgt Ion: 129 Resp: 34851
Ion Ratio Lower Upper
129 100
127 76.4 53.7 99.7

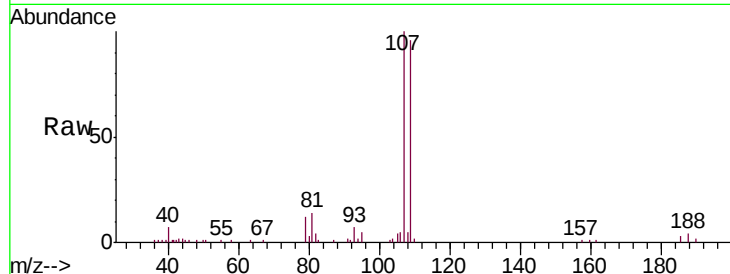




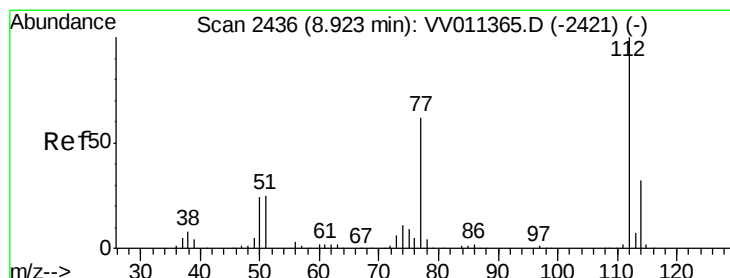
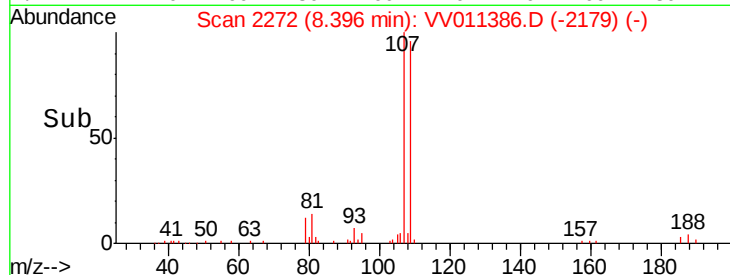
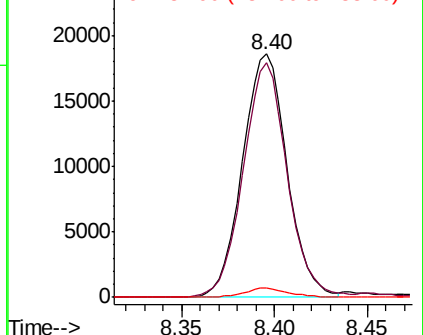
#50
 1,2-Dibromoethane
 Concen: 4.486 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00545

Tgt Ion:107 Resp: 31148
 Ion Ratio Lower Upper
 107 100
 109 96.2 64.5 119.9
 188 3.7 2.7 4.1

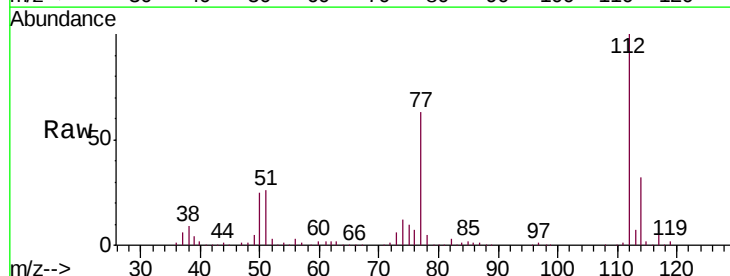


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

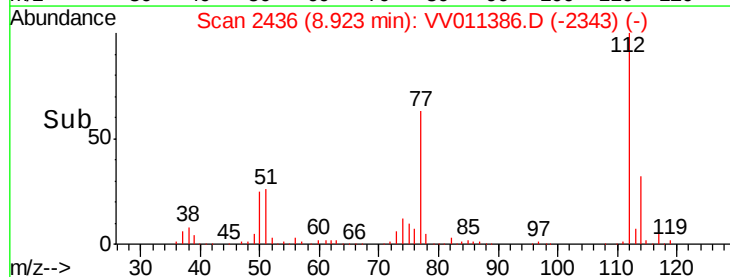
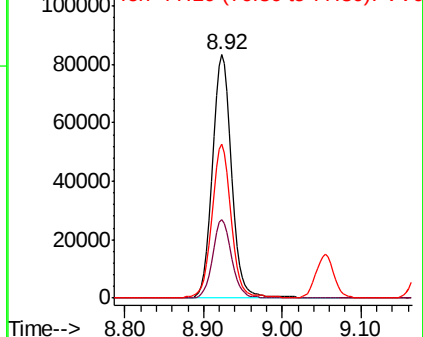


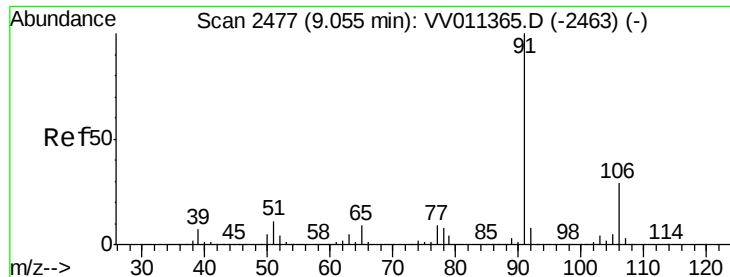
#51
 Chlorobenzene
 Concen: 4.696 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Tgt Ion:112 Resp: 139918
 Ion Ratio Lower Upper
 112 100
 114 32.3 22.6 42.0
 77 63.2 50.1 75.1



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.620 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

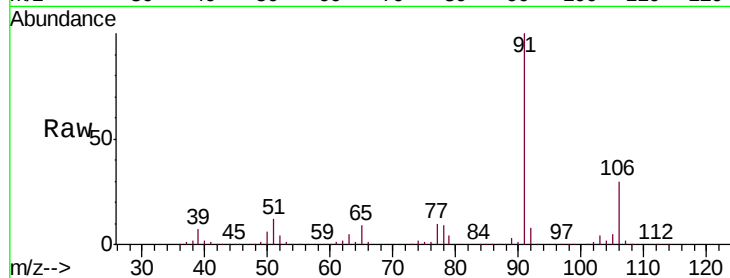
VSTD00545

Tgt Ion: 91 Resp: 250721

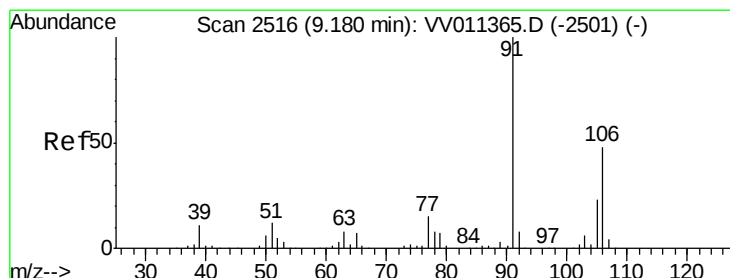
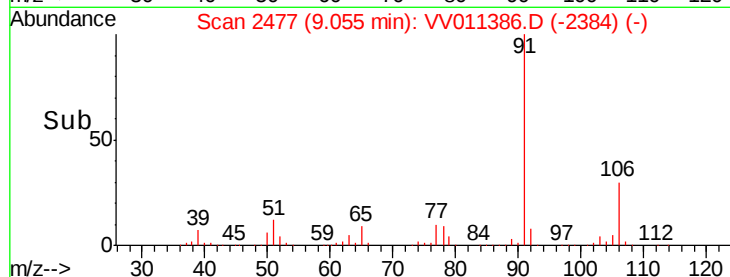
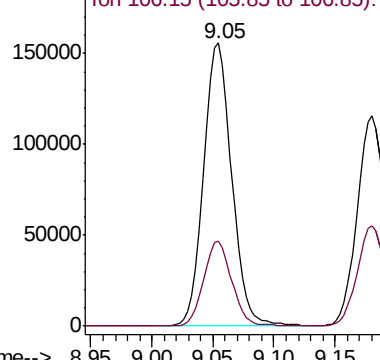
Ion Ratio Lower Upper

91 100

106 30.2 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VV011386.D (-2463) (-)



#53

m,p-xylene

Concen: 4.615 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV011386.D

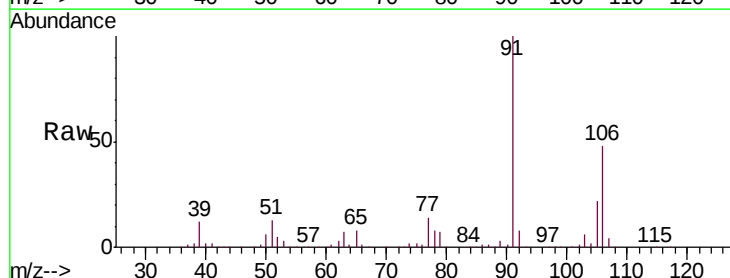
Acq: 11 Jun 2019 10:14

Tgt Ion: 106 Resp: 92606

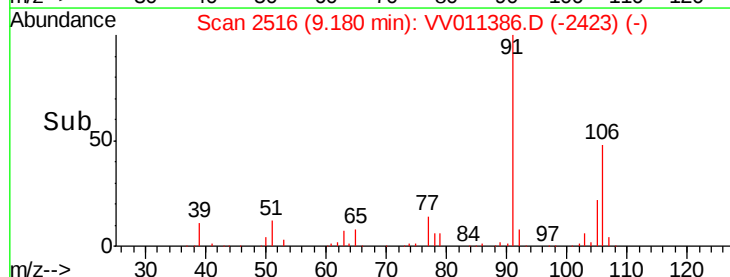
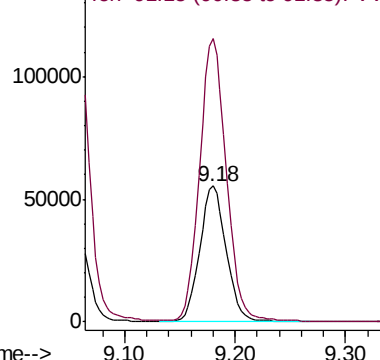
Ion Ratio Lower Upper

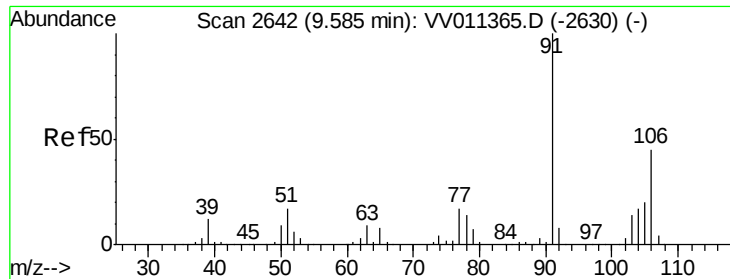
106 100

91 208.1 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): VV011386.D (-2501) (-)





#54

o-xylene

Concen: 4.659 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

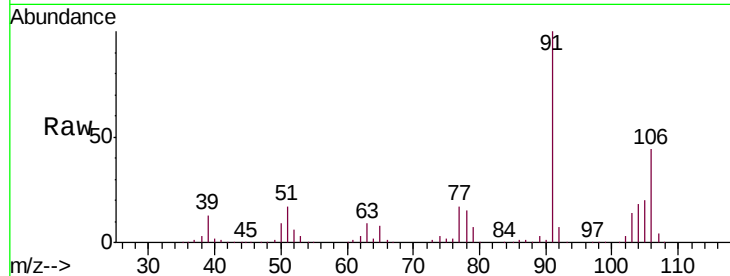
VSTD00545

Tgt Ion:106 Resp: 91761

Ion Ratio Lower Upper

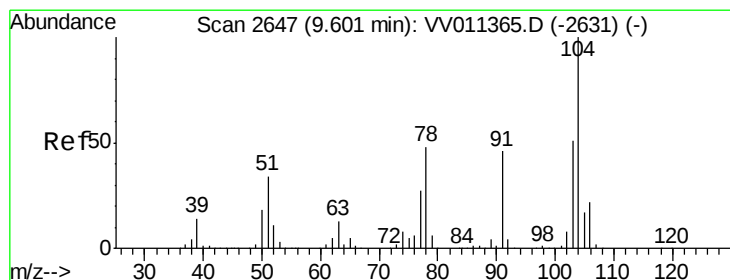
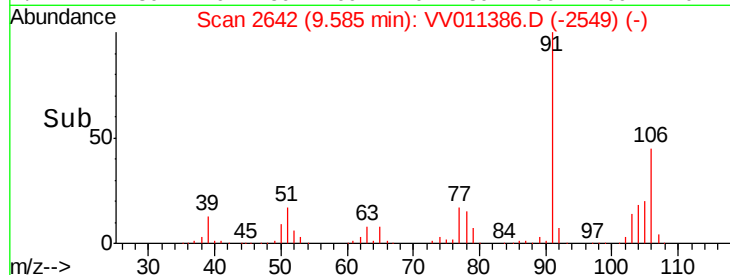
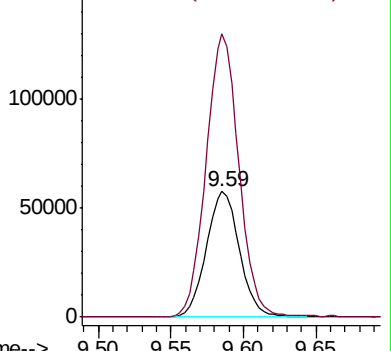
106 100

91 224.9 155.4 288.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.702 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV011386.D

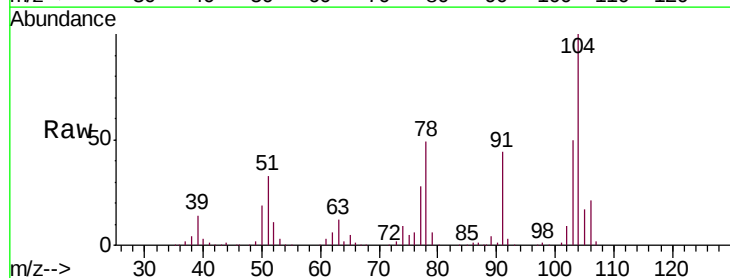
Acq: 11 Jun 2019 10:14

Tgt Ion:104 Resp: 150821

Ion Ratio Lower Upper

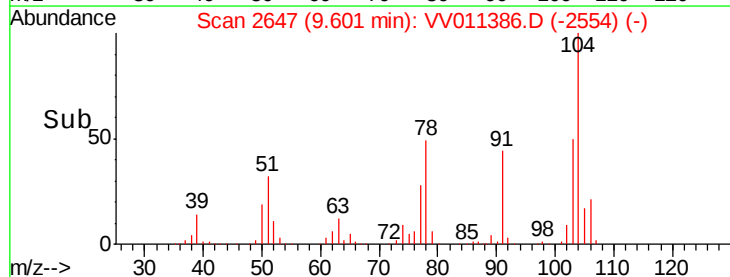
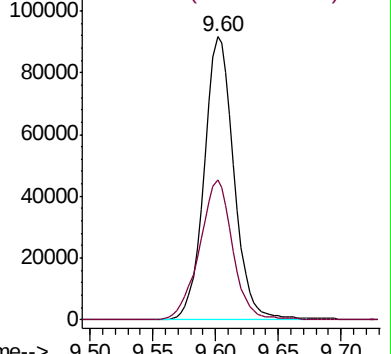
104 100

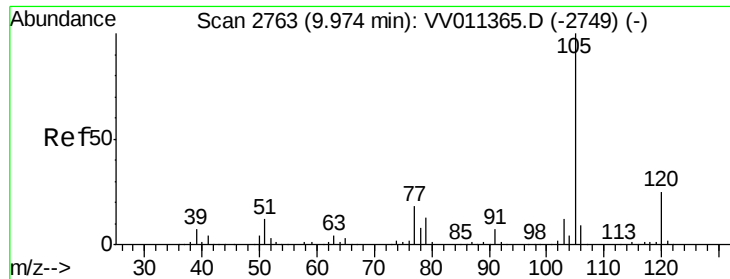
78 49.4 32.4 60.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.624 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD00545

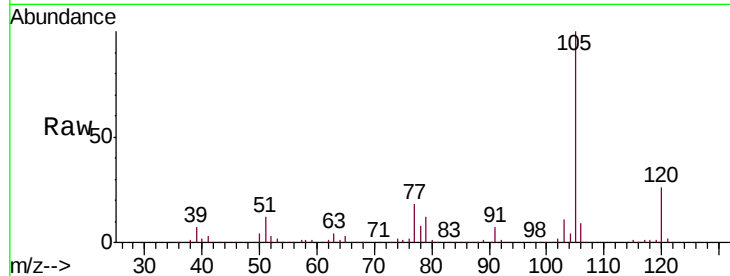
Tgt Ion: 105 Resp: 245104

Ion Ratio Lower Upper

105 100

120 25.9 20.9 31.3

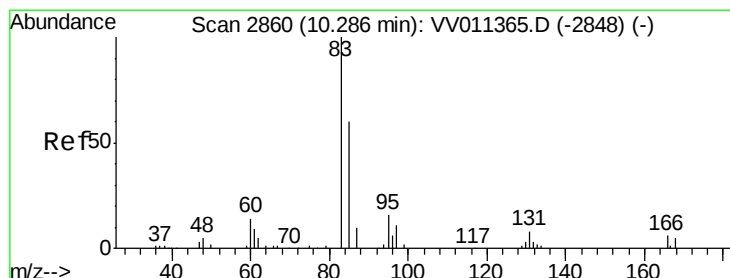
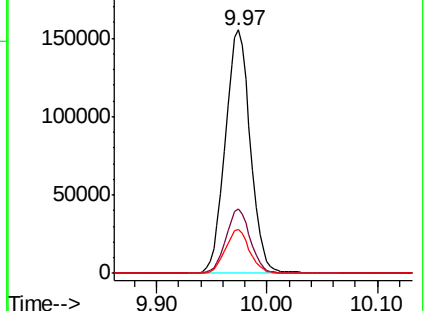
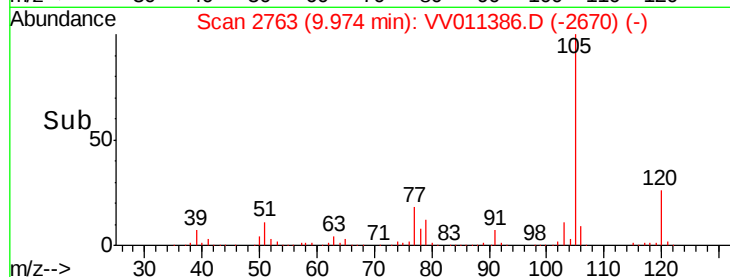
77 17.4 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.083 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

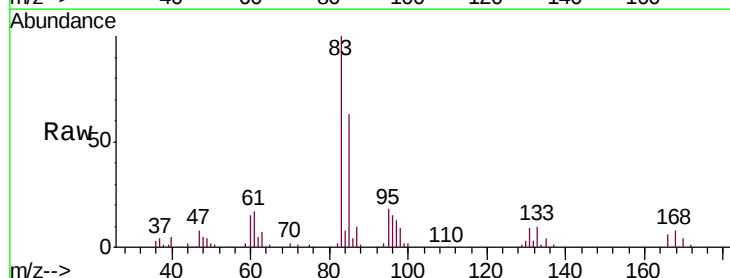
Tgt Ion: 83 Resp: 45010

Ion Ratio Lower Upper

83 100

85 62.9 43.5 80.9

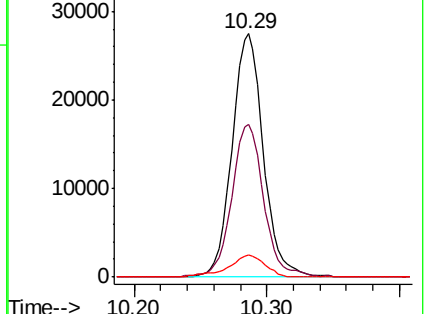
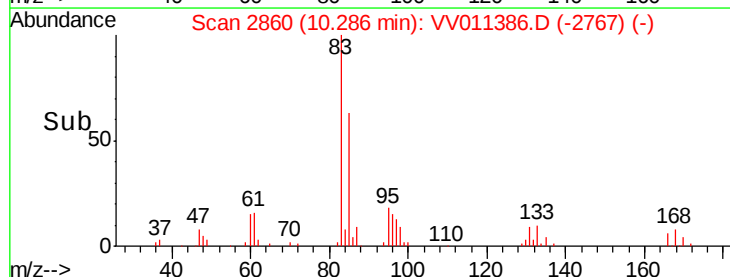
131 9.0 7.5 11.3

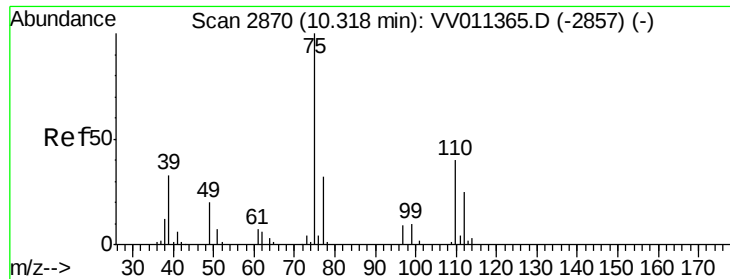


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.964 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

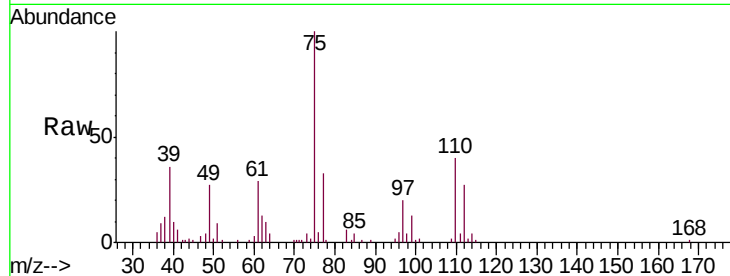
VSTD00545

Tgt Ion: 75 Resp: 33037

Ion Ratio Lower Upper

75 100

77 33.0 26.7 40.1



Abundance Ion 75.00 (74.70 to 75.70): VV011386.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV011386.D (-2857) (-)

10.32

20000

15000

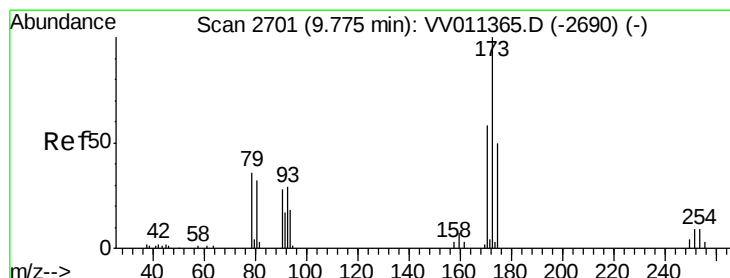
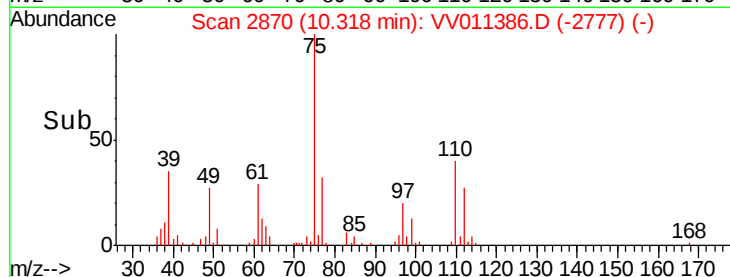
10000

5000

0

Time-->

10.25 10.30 10.35 10.40



#61

Bromoform

Concen: 4.172 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

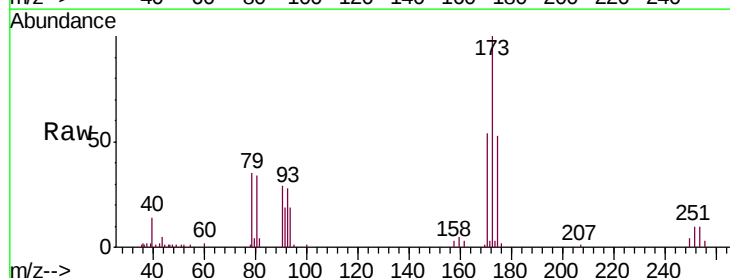
Tgt Ion: 173 Resp: 16136

Ion Ratio Lower Upper

173 100

175 50.4 37.0 55.4

254 9.3 6.9 10.3



Abundance Ion 172.90 (172.60 to 173.60): VV011386.D (-2690) (-)

Ion 174.90 (174.60 to 175.60): VV011386.D (-2690) (-)

Ion 253.75 (253.45 to 254.45): VV011386.D (-2690) (-)

9.77

12000

10000

8000

6000

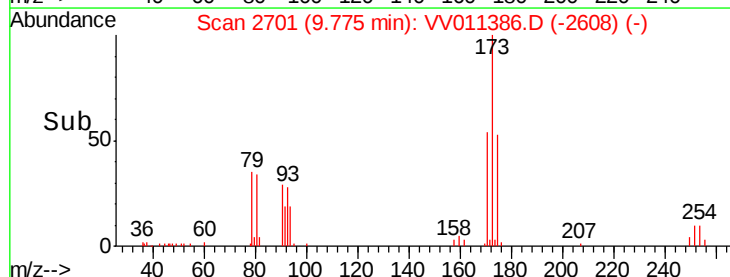
4000

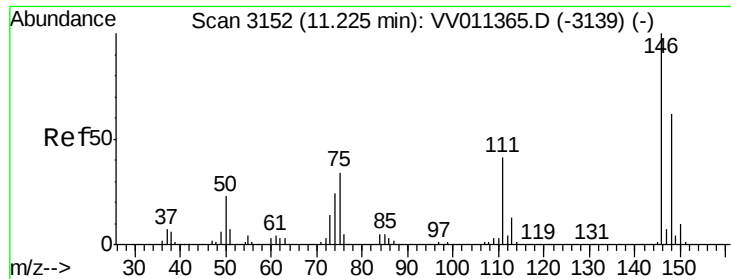
2000

0

Time-->

9.70 9.75 9.80





#62

1,3-Dichlorobenzene

Concen: 4.688 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD00545

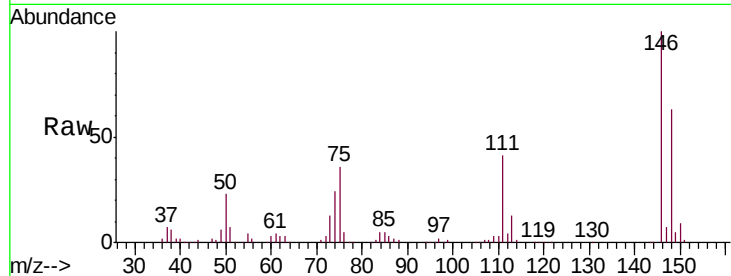
Tgt Ion:146 Resp: 99798

Ion Ratio Lower Upper

146 100

111 40.7 29.0 53.9

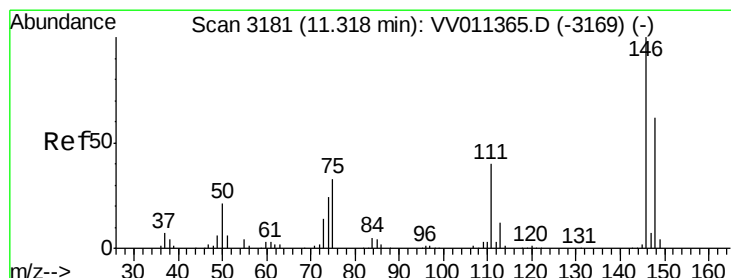
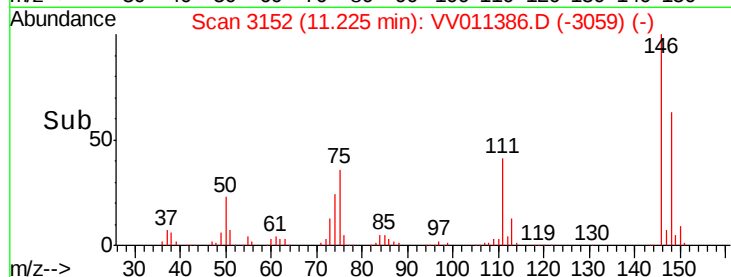
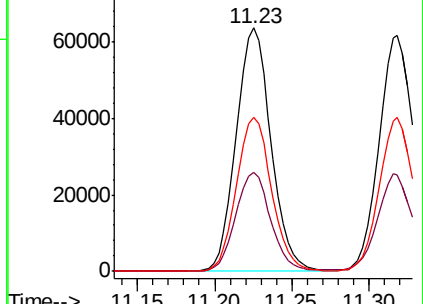
148 63.3 44.0 81.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.766 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

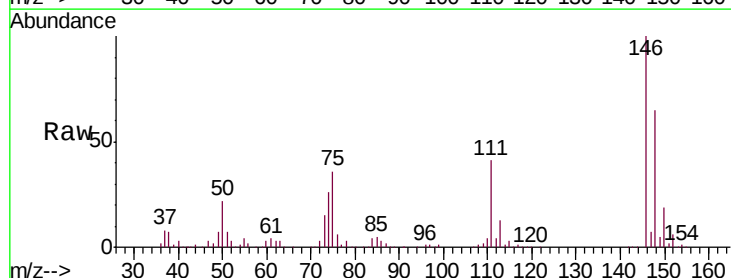
Tgt Ion:146 Resp: 98482

Ion Ratio Lower Upper

146 100

111 40.7 28.3 52.5

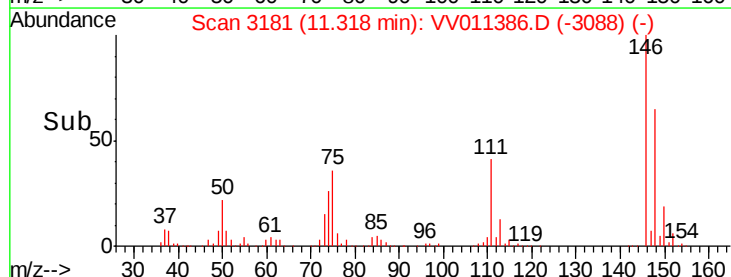
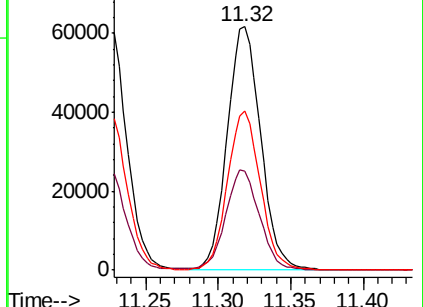
148 65.1 44.6 82.8

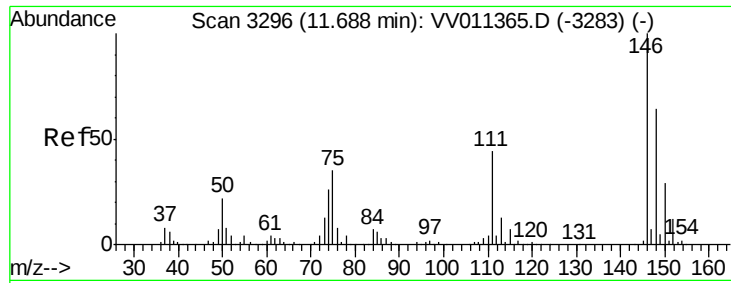


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

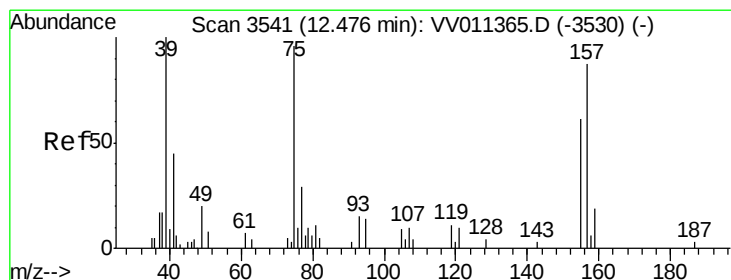
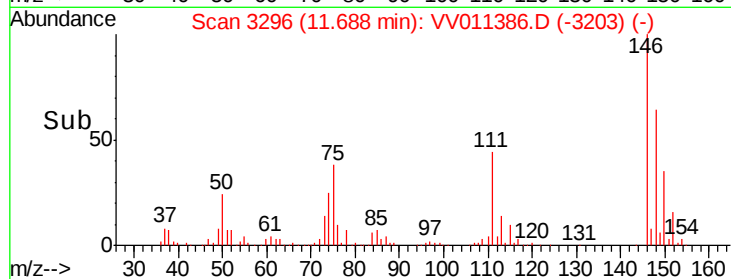
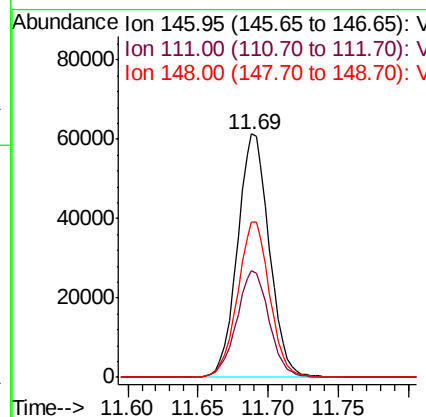
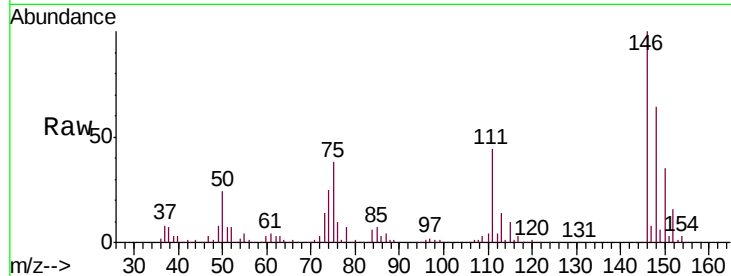




#65
 1,2-Dichlorobenzene
 Concen: 4.915 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

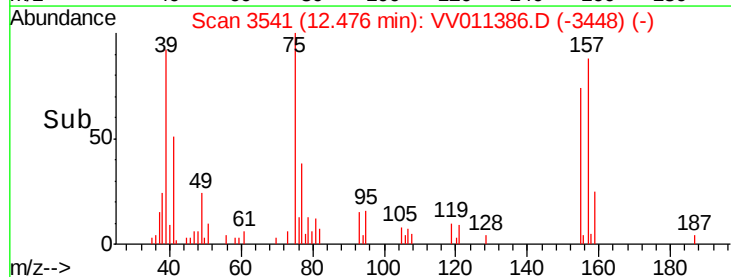
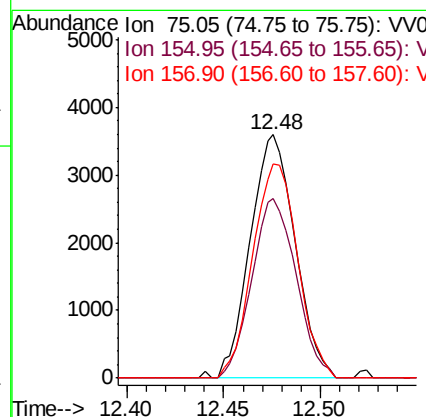
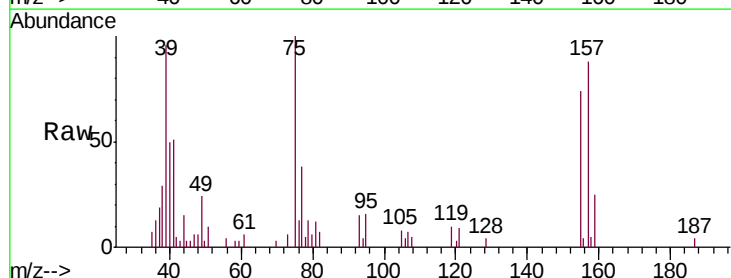
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00545

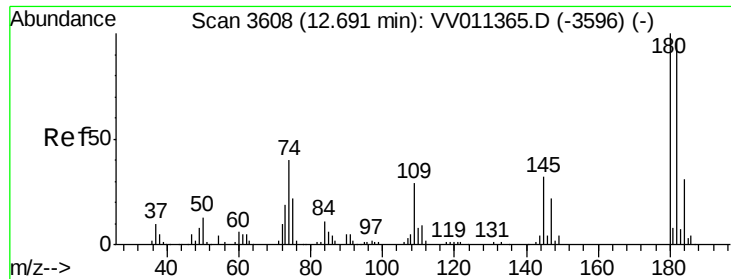
Tgt Ion: 146 Resp: 96721
 Ion Ratio Lower Upper
 146 100
 111 43.8 33.9 50.9
 148 63.8 50.3 75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.132 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Tgt Ion: 75 Resp: 5826
 Ion Ratio Lower Upper
 75 100
 155 73.9 64.4 96.6
 157 87.9 66.7 100.1

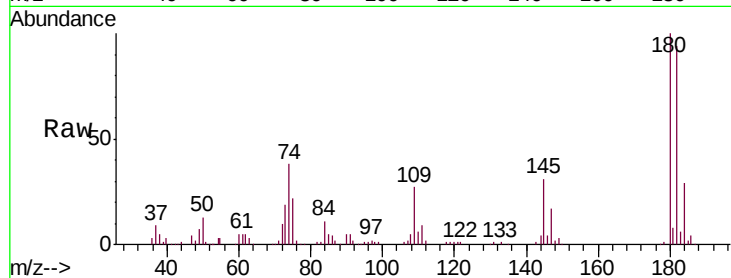




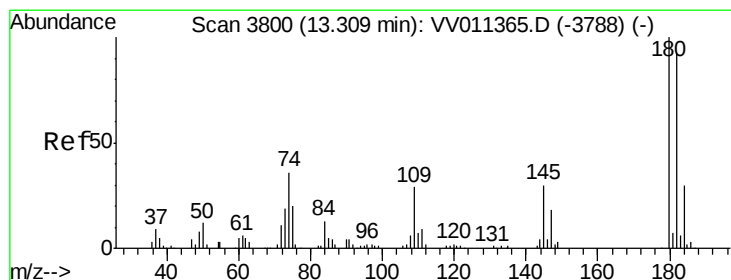
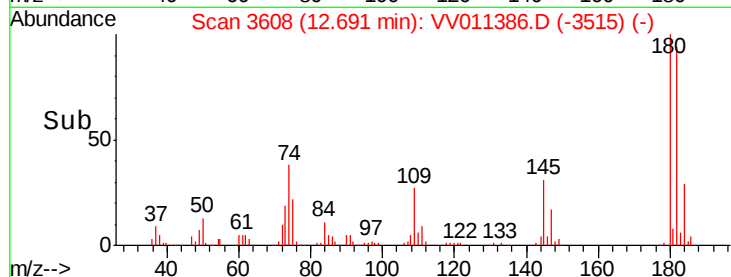
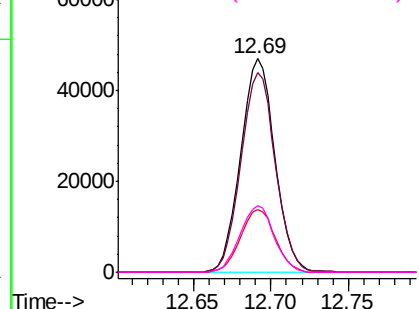
#67
 1,3,5-Trichlorobenzene
 Concen: 4.699 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00545

Tgt Ion:180 Resp: 71964
 Ion Ratio Lower Upper
 180 100
 182 94.4 76.7 115.1
 184 29.7 23.8 35.8
 145 31.2 24.2 36.2

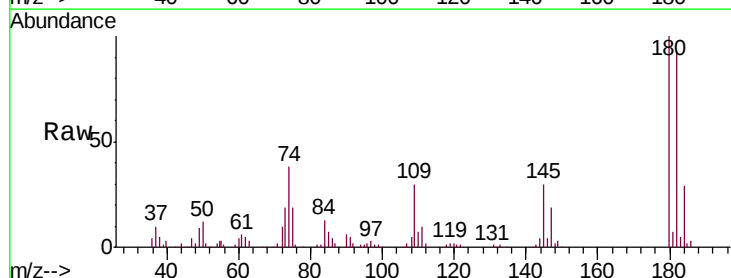


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

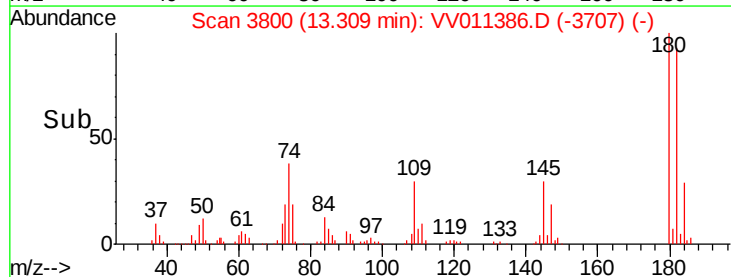
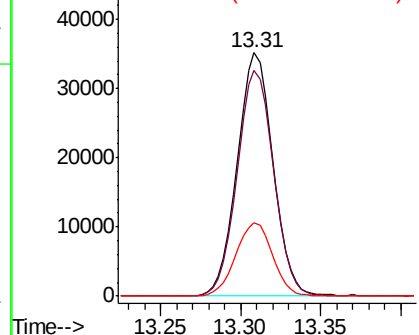


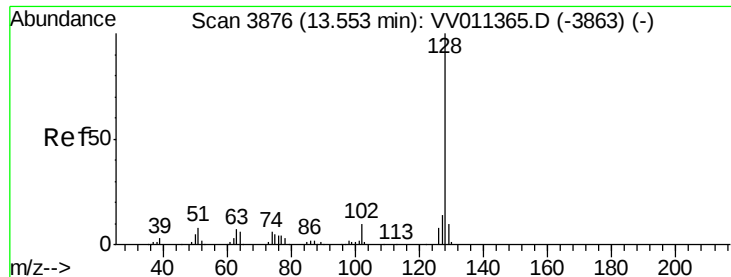
#68
 1,2,4-trichlorobenzene
 Concen: 4.606 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011386.D
 Acq: 11 Jun 2019 10:14

Tgt Ion:180 Resp: 53556
 Ion Ratio Lower Upper
 180 100
 182 94.1 78.8 118.2
 145 30.9 26.3 39.5



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.691 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD00545

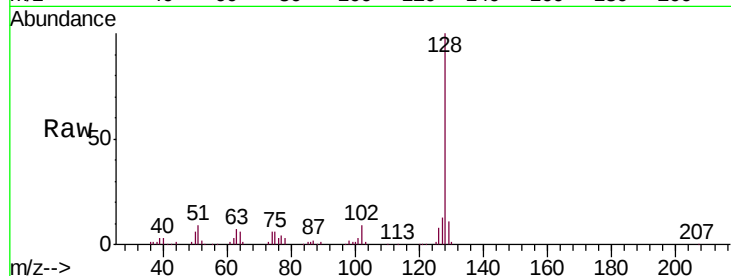
Tgt Ion:128 Resp: 89277

Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

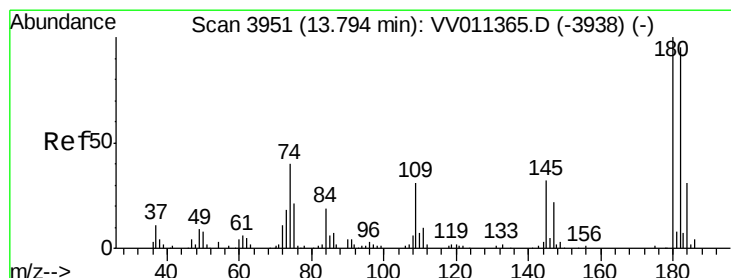
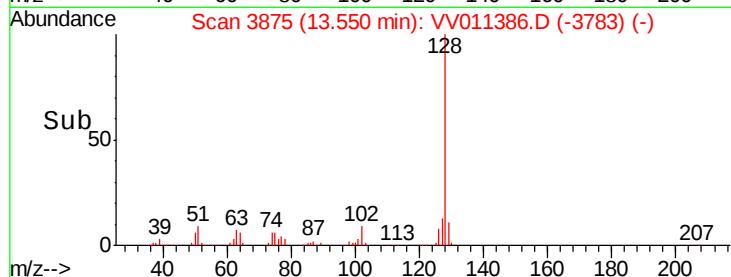
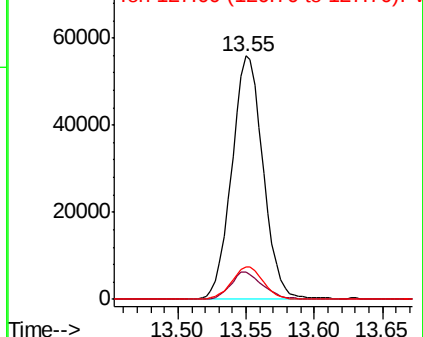
127 13.4 10.5 15.7



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: 4.773 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011386.D

Acq: 11 Jun 2019 10:14

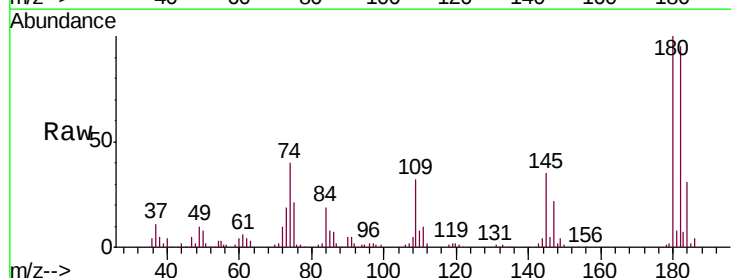
Tgt Ion:180 Resp: 49767

Ion Ratio Lower Upper

180 100

182 95.0 78.6 117.8

145 35.2 26.9 40.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

