

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021319\
 Data File : VV009289.D
 Acq On : 13 Feb 2019 12:02
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC025

Quant Time: Feb 15 15:15:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM021319S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 13 15:25:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	297410	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	292300	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	141850	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	111020	23.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.96%
7) Chloroethane-d5	1.57	69	87431	24.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.36%
10) 1,1-Dichloroethene-d2	2.13	63	226981	24.22	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.88%
20) 2-Butanone-d5	4.25	46	166	0.09	ug/L	0.31
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.18%#
24) Chloroform-d	4.40	84	204602	23.81	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.24%
26) 1,2-Dichloroethane-d4	5.08	65	123937	24.16	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.64%
29) Benzene-d6	5.10	84	419155	25.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	101.00%
33) 1,2-Dichloropropane-d6	6.12	67	128083	23.94	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.76%
37) Toluene-d8	7.36	98	390081	25.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.52%
38) trans-1,3-Dichloropropene-	7.66	79	58242	24.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.40%
39) 2-Hexanone-d5	8.13	63	47670	37.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	75.94%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	113363	22.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	88.04%
61) 1,2-Dichlorobenzene-d4	11.67	152	135613	23.66	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.64%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	110430	23.000	ug/L 99
3) Chloromethane	1.25	50	125776	23.080	ug/L 99
5) Vinyl chloride	1.32	62	125333	24.871	ug/L 100
6) Bromomethane	1.52	94	69428	30.619	ug/L 98
8) Chloroethane	1.59	64	75427	23.721	ug/L 99
9) Trichlorofluoromethane	1.77	101	184124	25.237	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	103129	25.456	ug/L 99
12) 1,1-Dichloroethene	2.14	96	91354	24.797	ug/L 91
13) Acetone	2.19	43	109809	41.007	ug/L 99
14) Carbon disulfide	2.32	76	353072	24.978	ug/L 100
15) Methyl Acetate	2.46	43	64504	17.925	ug/L 100
16) Methylene chloride	2.53	84	125696	20.602	ug/L 99
17) Methyl tert-butyl Ether	2.80	73	258207	24.036	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	109198	25.386	ug/L 98
19) 1,1-Dichloroethane	3.23	63	210194	25.434	ug/L 98
21) 2-Butanone	4.01	43	106825	40.980	ug/L 98
22) cis-1,2-Dichloroethene	3.96	96	115442	25.327	ug/L 98

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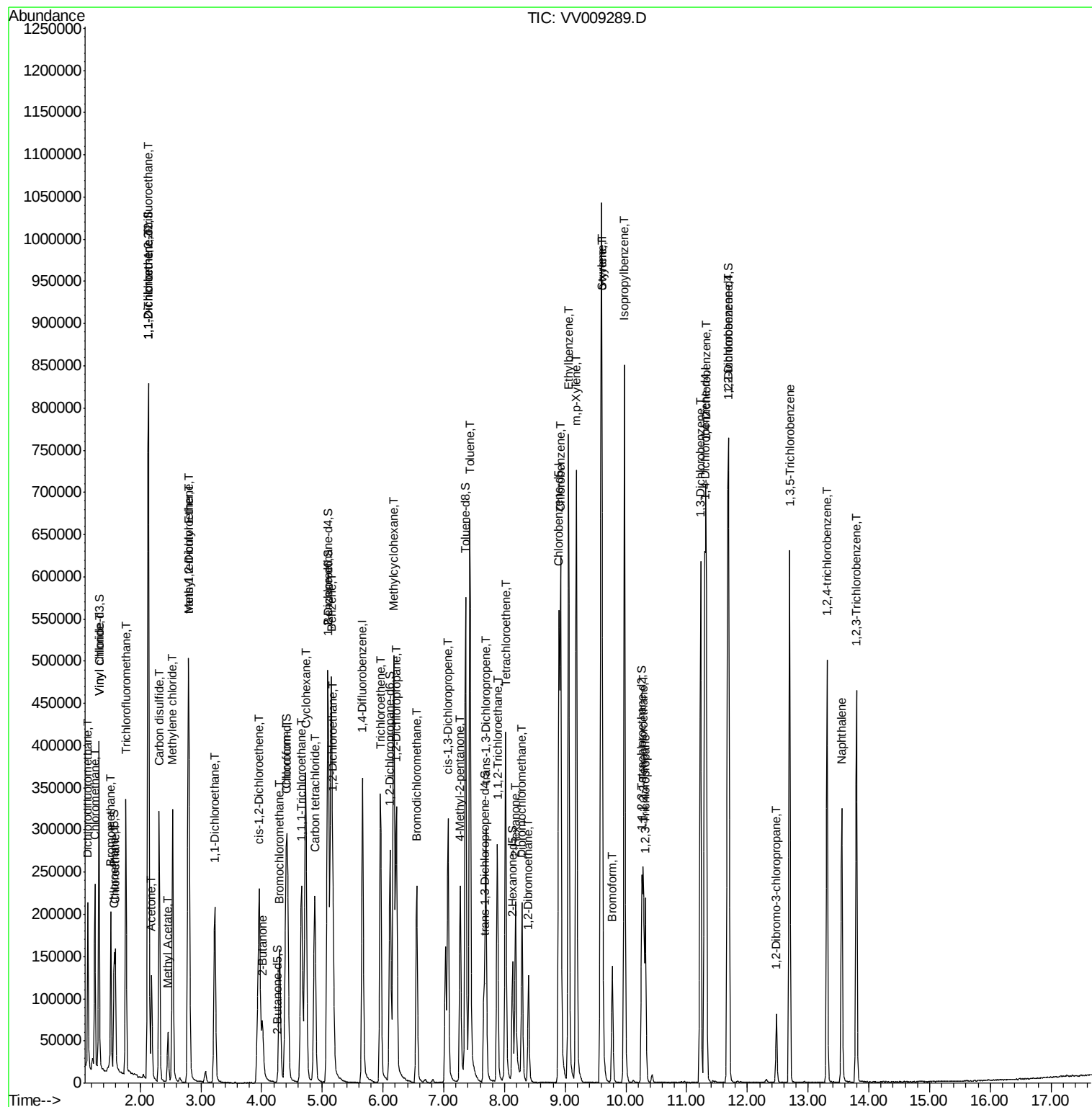
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	49622	24.185	ug/L	95
25) Chloroform	4.42	83	219047	26.391	ug/L	100
27) 1,2-Dichloroethane	5.18	62	151882	24.542	ug/L	99
30) Cyclohexane	4.72	56	197346	25.127	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	183507	25.567	ug/L	99
32) Carbon tetrachloride	4.87	117	161739	25.585	ug/L	99
34) Benzene	5.15	78	448433	25.619	ug/L	100
35) Trichloroethene	5.96	95	119700	25.688	ug/L	98
36) Methylcyclohexane	6.18	83	202137	26.635	ug/L	97
40) 1,2-Dichloropropane	6.22	63	118761	25.037	ug/L	100
41) Bromodichloromethane	6.55	83	152911	25.630	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	168426	24.350	ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	169090	39.147	ug/L	98
44) Toluene	7.43	91	486946	26.209	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	157678	26.592	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	87699	24.161	ug/L	98
47) Tetrachloroethene	8.02	164	91523	24.981	ug/L	98
49) 2-Hexanone	8.18	43	145625	40.915	ug/L	99
50) Dibromochloromethane	8.29	129	102819	24.482	ug/L	98
51) 1,2-Dibromoethane	8.40	107	82878	23.231	ug/L	99
52) Chlorobenzene	8.93	112	302812	25.363	ug/L	98
53) Ethylbenzene	9.05	91	547662	26.468	ug/L	99
54) m,p-Xylene	9.18	106	204648	26.885	ug/L	97
55) o-xylene	9.59	106	193091	26.991	ug/L	95
56) Styrene	9.60	104	333354	27.198	ug/L	99
57) Isopropylbenzene	9.97	105	533950	26.803	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	113577	21.674	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	86669	21.289	ug/L	99
62) Bromoform	9.77	173	59114	23.279	ug/L	97
63) 1,3-Dichlorobenzene	11.23	146	233944	25.299	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	242372	25.598	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	219908	24.644	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	20077	19.342	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	175863	25.365	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	136211	24.740	ug/L	97
69) Naphthalene	13.55	128	245369	20.989	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	125971	23.924	ug/L	99

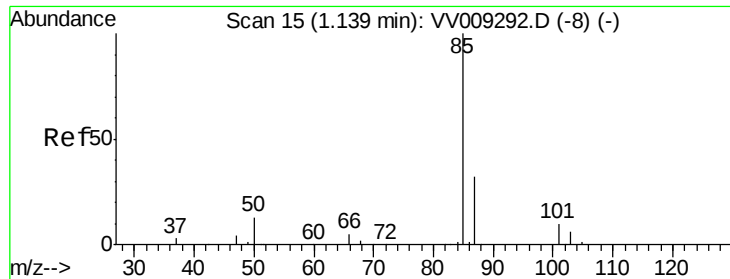
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.000 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

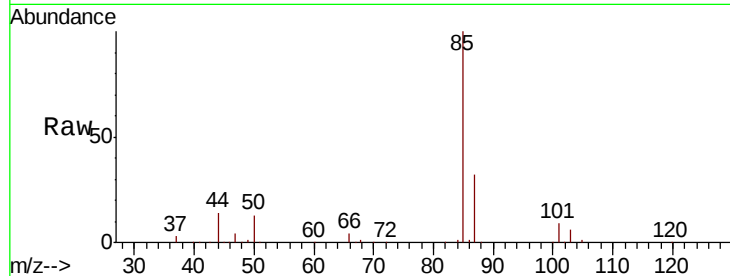
VSTDCCC025

Tot Ion: 85 Resp: 110430

Ion Ratio Lower Upper

85 100

87 31.4 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV009289.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009289.D (-8) (-)

1.14

120000

100000

80000

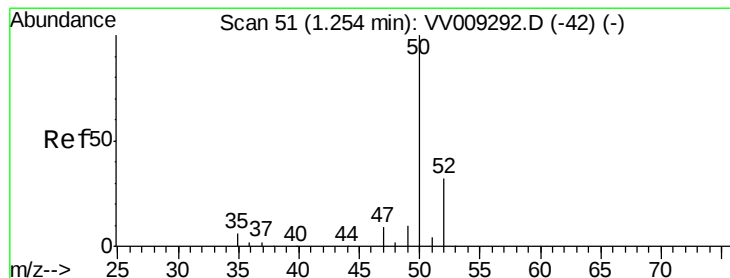
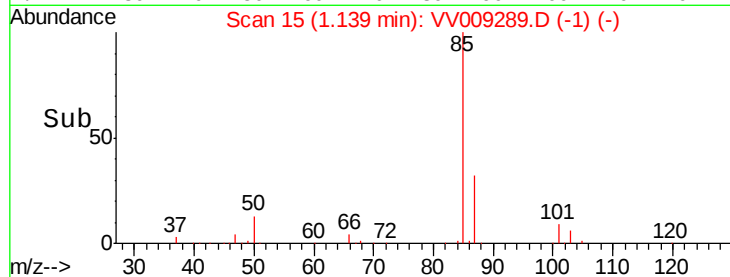
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 23.080 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV009289.D

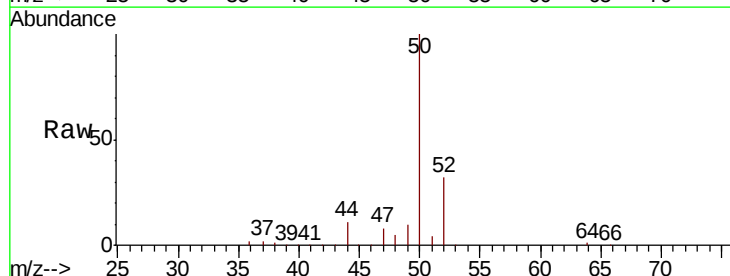
Acq: 13 Feb 2019 12:02

Tgt Ion: 50 Resp: 125776

Ion Ratio Lower Upper

50 100

52 32.5 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV009289.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV009289.D (-42) (-)

1.25

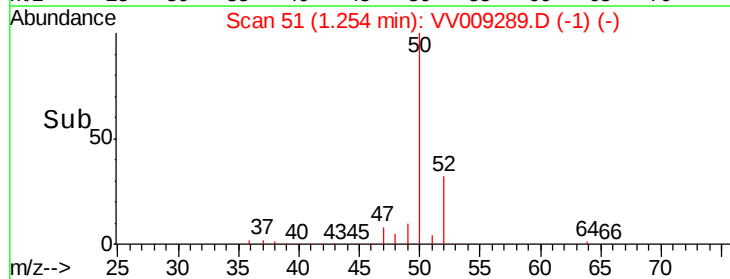
150000

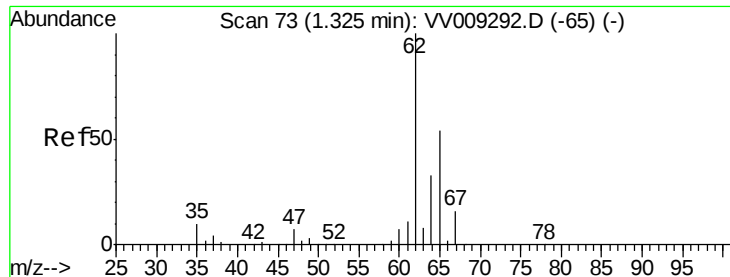
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 24.871 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

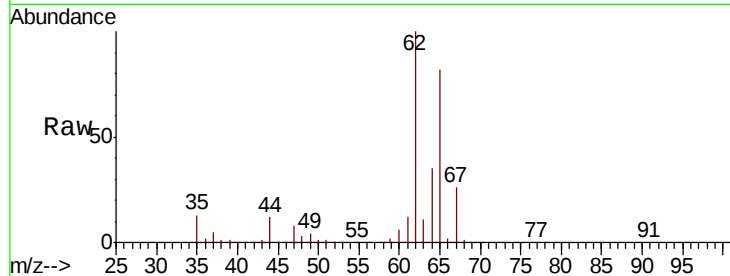
VSTDCCC025

Tot Ion: 62 Resp: 125333

Ion Ratio Lower Upper

62 100

64 34.5 24.2 45.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

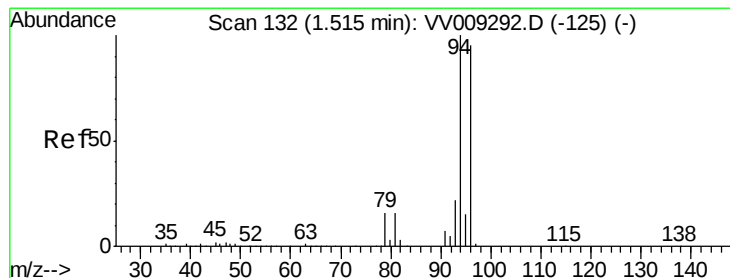
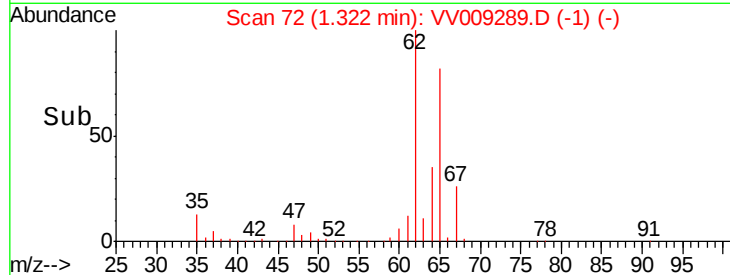
100000

50000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 30.619 ug/L

RT: 1.52 min Scan# 133

Delta R.T. 0.00 min

Lab File: VV009289.D

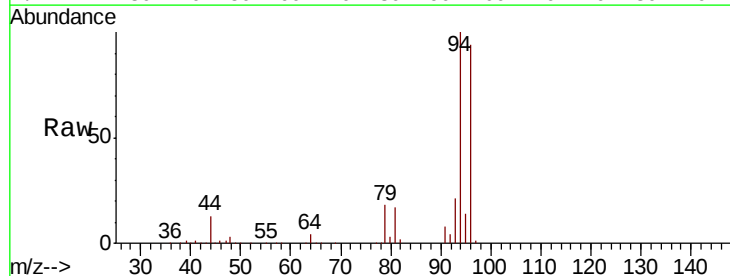
Acq: 13 Feb 2019 12:02

Tgt Ion: 94 Resp: 69428

Ion Ratio Lower Upper

94 100

96 93.6 9.6 182.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.52

60000

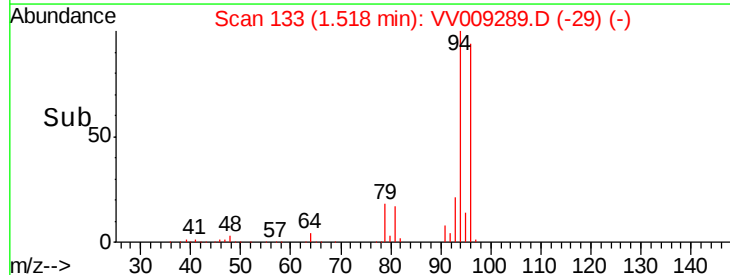
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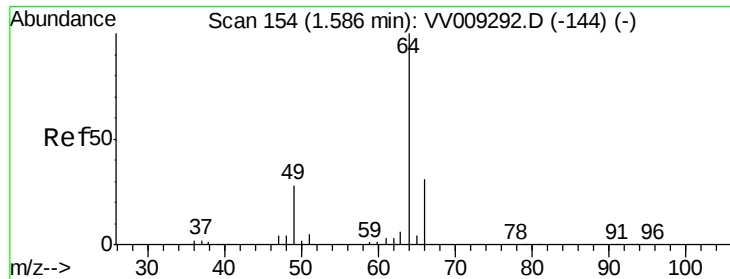
20000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 23.721 ug/L

RT: 1.59 min Scan# 155

Delta R.T. 0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

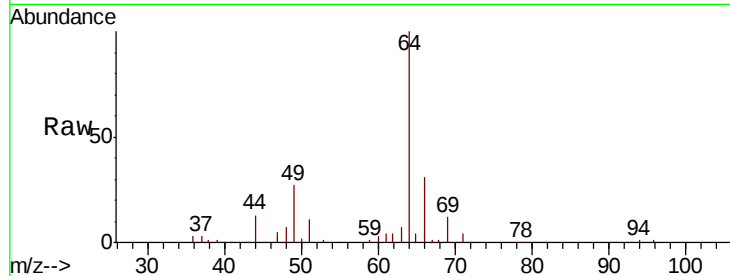
VSTDCCC025

Tot Ion: 64 Resp: 75427

Ion Ratio Lower Upper

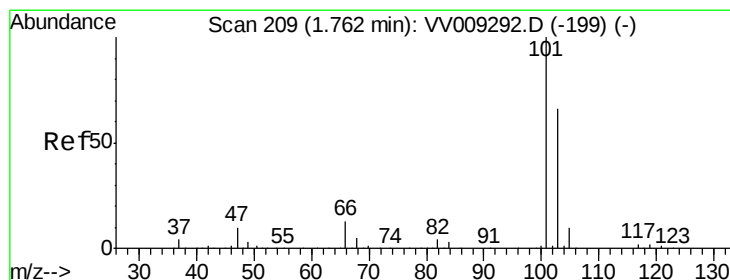
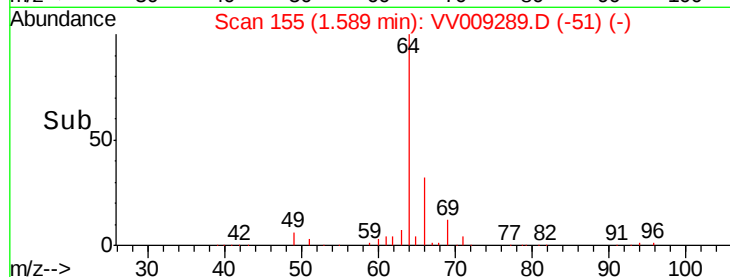
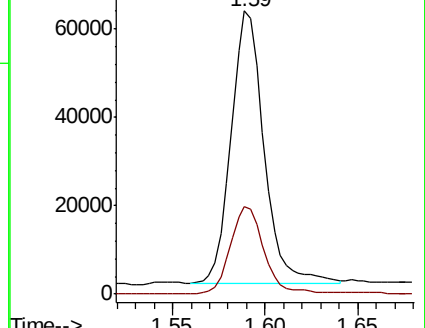
64 100

66 30.9 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VV009289.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV009289.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 25.237 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009289.D

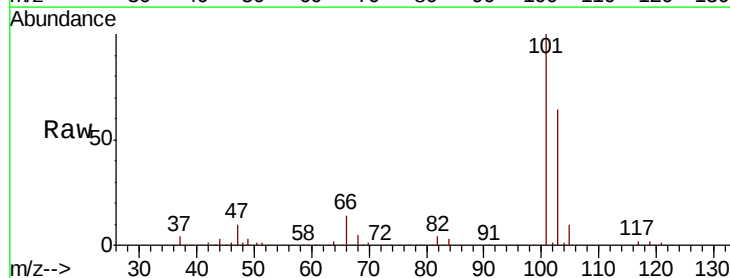
Acq: 13 Feb 2019 12:02

Tgt Ion: 101 Resp: 184124

Ion Ratio Lower Upper

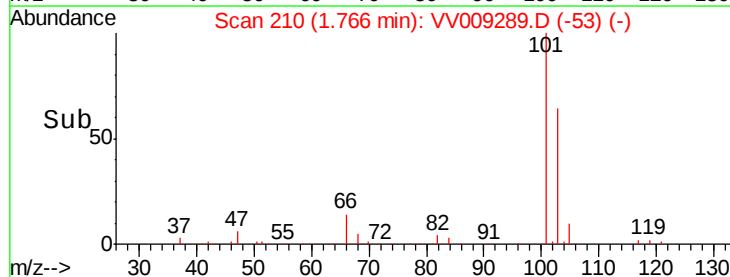
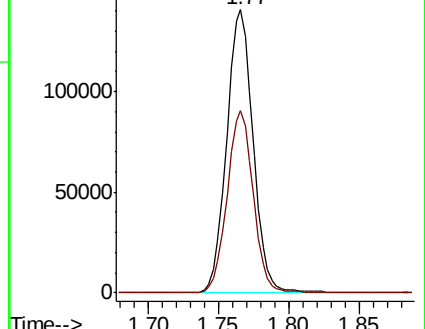
101 100

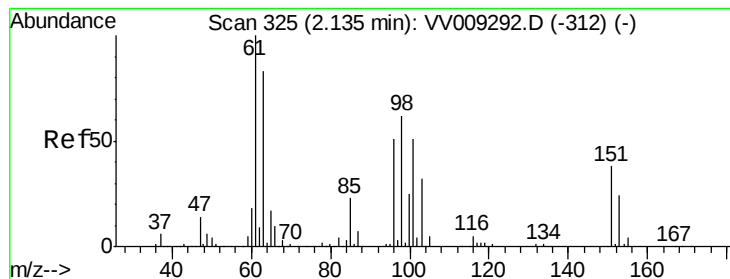
103 63.6 45.8 85.2



Abundance Ion 101.00 (100.70 to 101.70): VV009289.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009289.D (-199) (-)





#11

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

Concen: 25.456 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

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VSTDCCC025

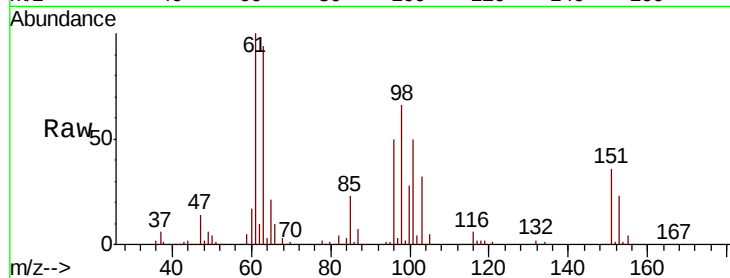
Tot Ion:101 Resp: 103129

Ion Ratio Lower Upper

101 100

85 46.5 36.2 54.2

151 74.2 59.9 89.9

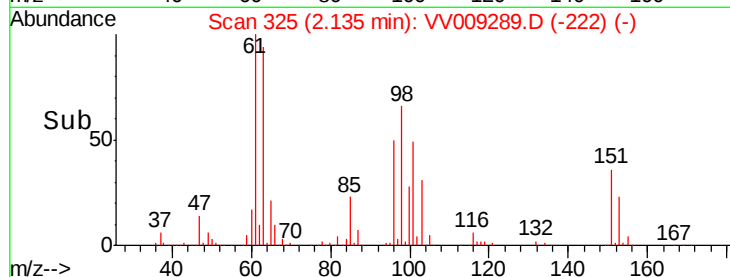


Abundance Ion 101.00 (100.70 to 101.70): VV009292.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV009292.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV009292.D (-312) (-)

Time-->



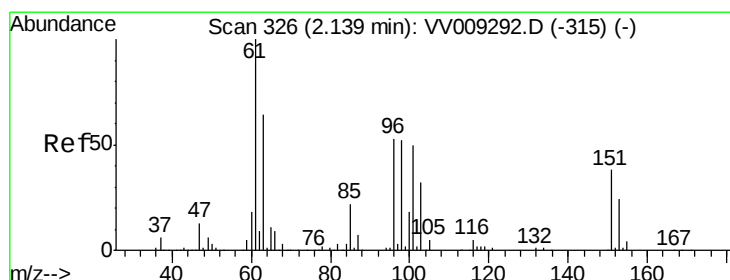
Abundance

Ion 101.00 (100.70 to 101.70): VV009289.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009289.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009289.D (-222) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 24.797 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

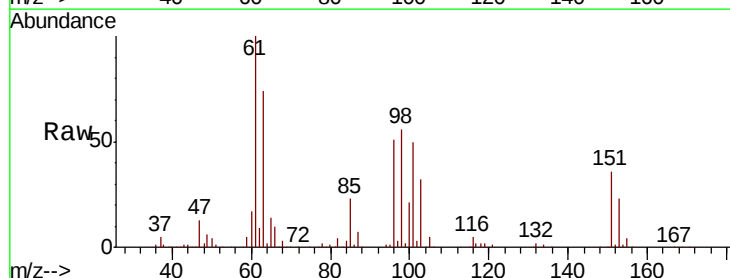
Tgt Ion: 96 Resp: 91354

Ion Ratio Lower Upper

96 100

61 195.3 131.8 244.8

63 145.0 88.8 165.0

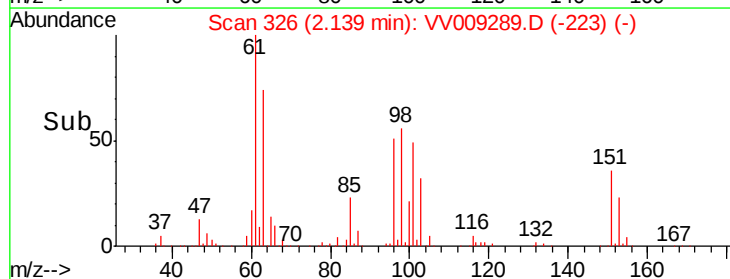


Abundance Ion 96.00 (95.70 to 96.70): VV009292.D (-315) (-)

Ion 61.00 (60.70 to 61.70): VV009292.D (-315) (-)

Ion 63.00 (62.70 to 63.70): VV009292.D (-315) (-)

Time-->



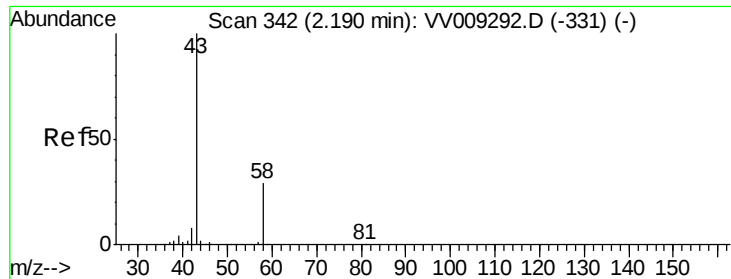
Abundance

Ion 96.00 (95.70 to 96.70): VV009289.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009289.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009289.D (-223) (-)

Time-->



#13

Acetone

Concen: 41.007 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

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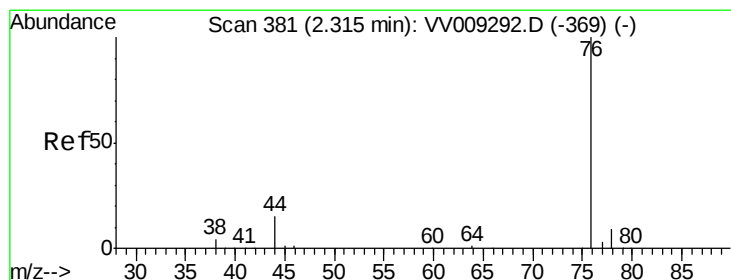
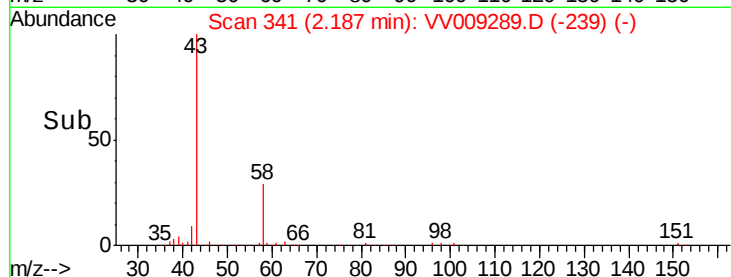
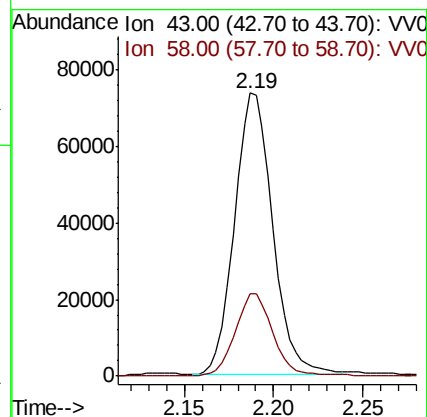
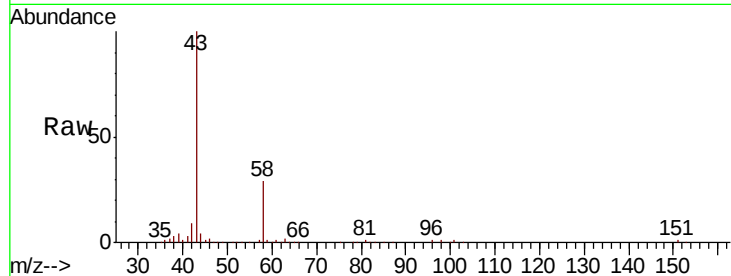
VSTDCCC025

Tot Ion: 43 Resp: 109809

Ion Ratio Lower Upper

43 100

58 29.0 0.0 57.2



#14

Carbon disulfide

Concen: 24.978 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009289.D

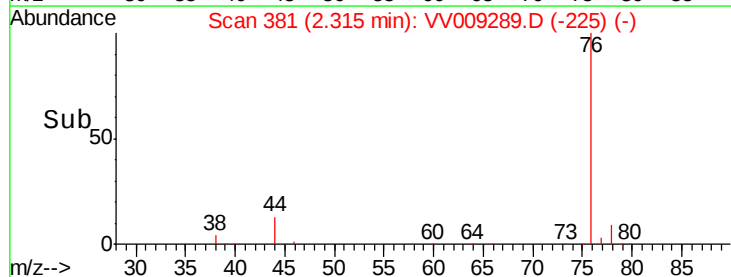
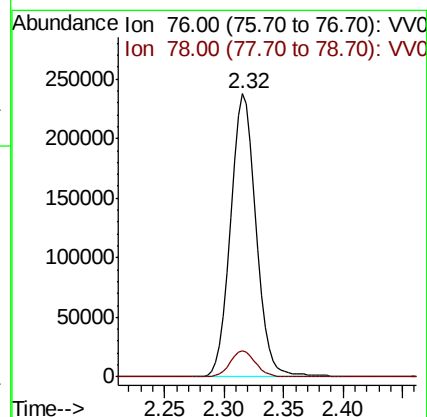
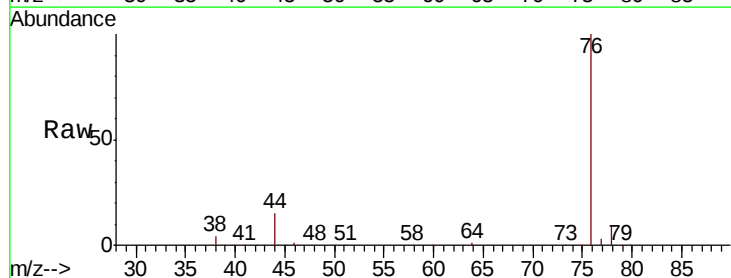
Acq: 13 Feb 2019 12:02

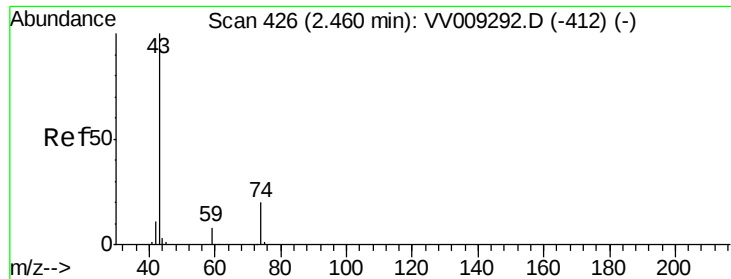
Tgt Ion: 76 Resp: 353072

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

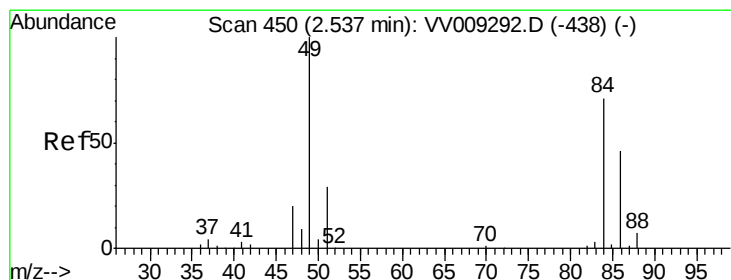
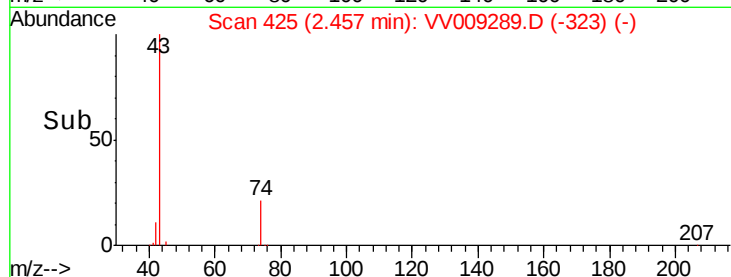
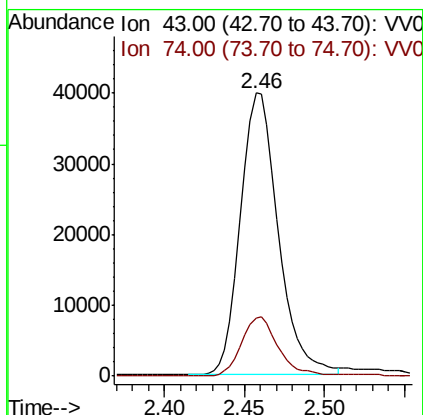
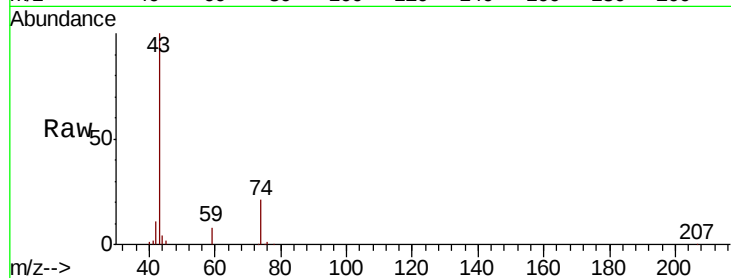




#15
Methyl Acetate
Concen: 17.925 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

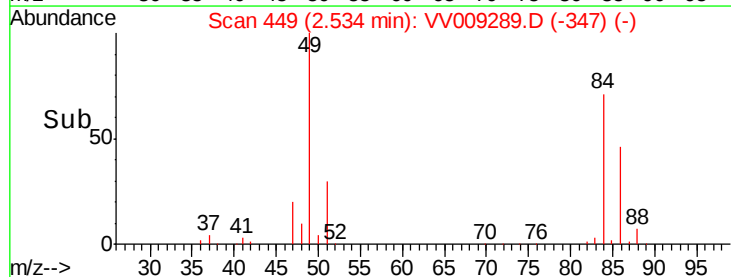
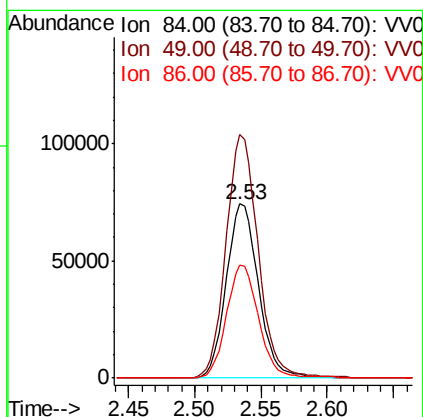
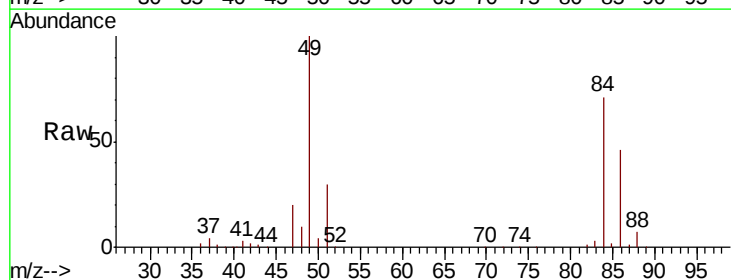
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

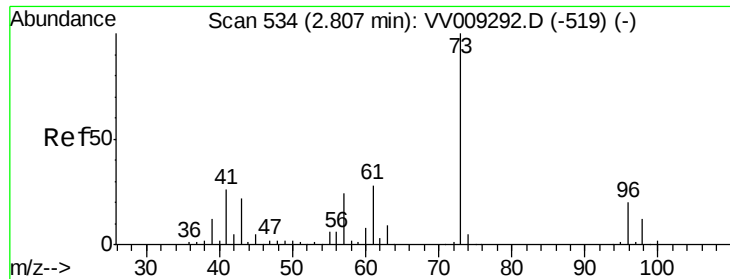
Tot Ion: 43 Resp: 64504
Ion Ratio Lower Upper
43 100
74 20.6 16.3 24.5



#16
Methylene chloride
Concen: 20.602 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Tgt Ion: 84 Resp: 125696
Ion Ratio Lower Upper
84 100
49 139.9 98.4 182.8
86 64.7 45.1 83.7

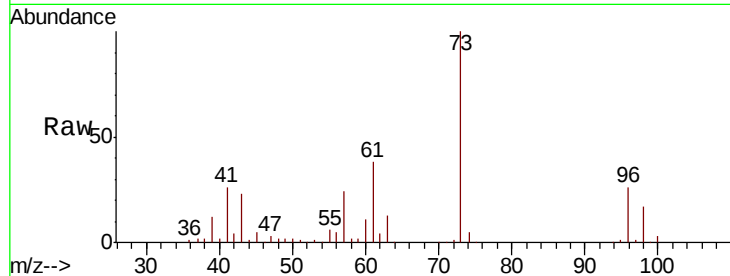




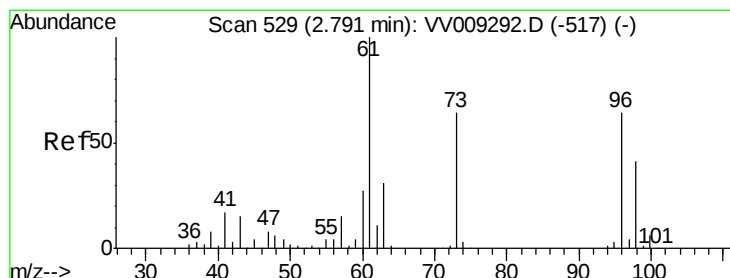
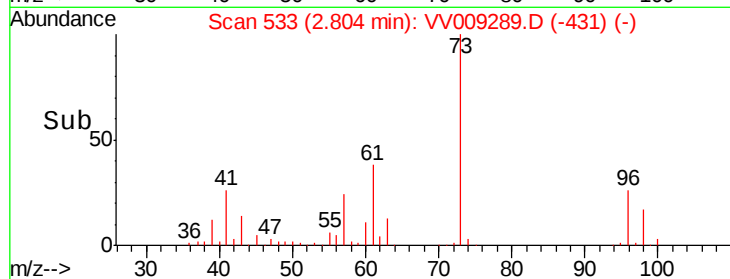
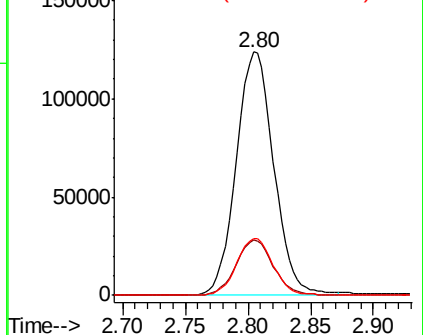
#17
Methvl tert-butvl Ether
Concen: 24.036 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

Tot Ion: 73 Resp: 258207
Ion Ratio Lower Upper
73 100
43 22.2 18.2 27.4
57 22.8 19.0 28.4

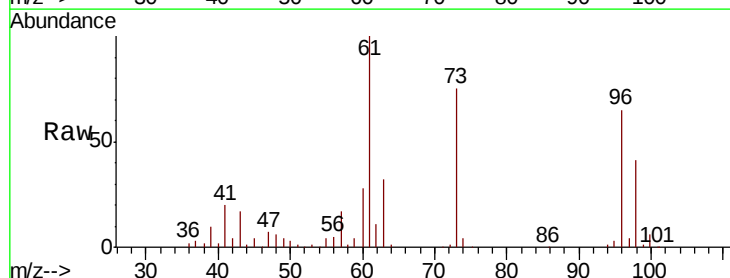


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

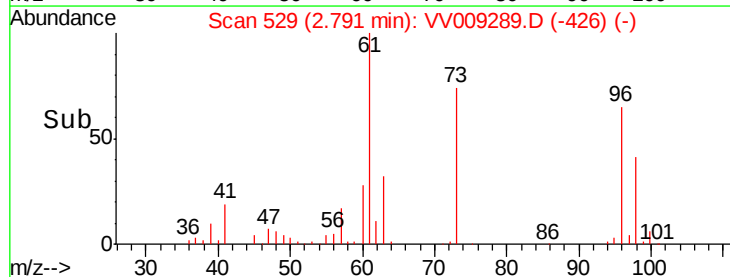
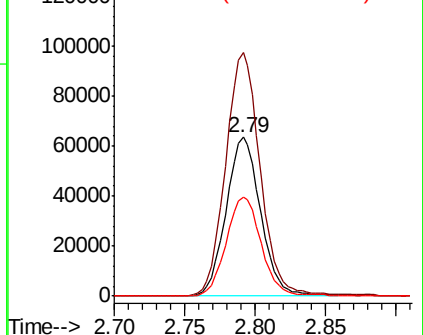


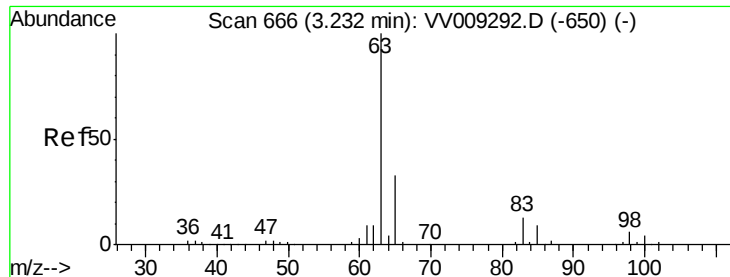
#18
trans-1,2-Dichloroethene
Concen: 25.386 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Tgt Ion: 96 Resp: 109198
Ion Ratio Lower Upper
96 100
61 153.3 109.0 202.4
98 62.6 44.3 82.3



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

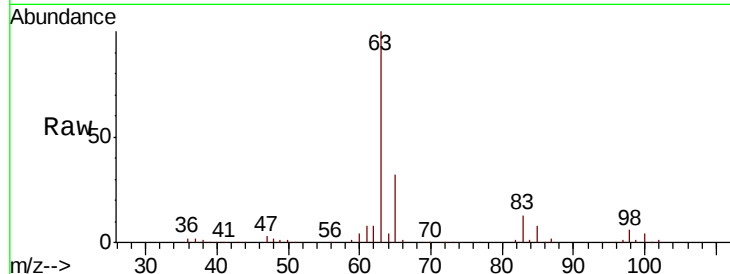




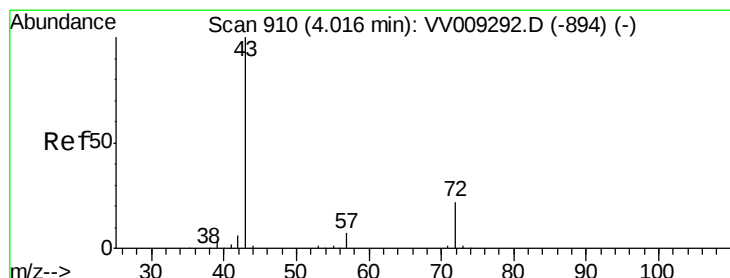
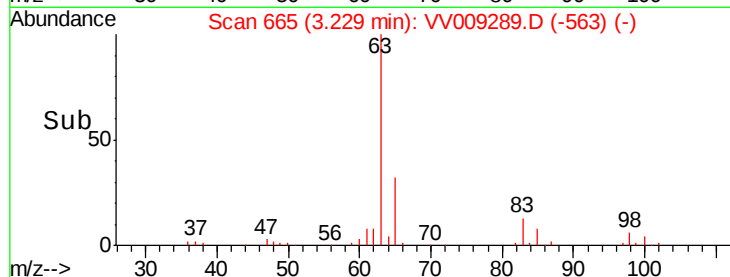
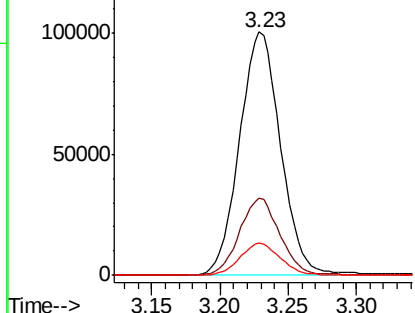
#19
 1,1-Dichloroethane
 Concen: 25.434 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC025

Tot Ion: 63 Resp: 210194
 Ion Ratio Lower Upper
 63 100
 65 32.0 23.3 43.3
 83 13.1 9.1 16.9

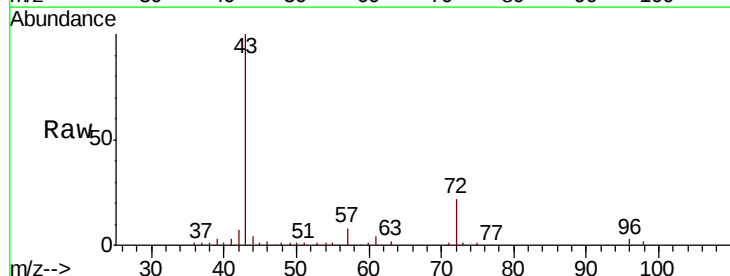


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

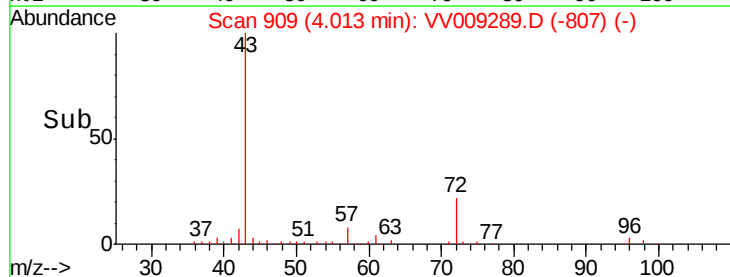
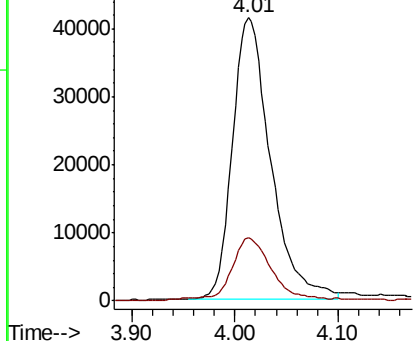


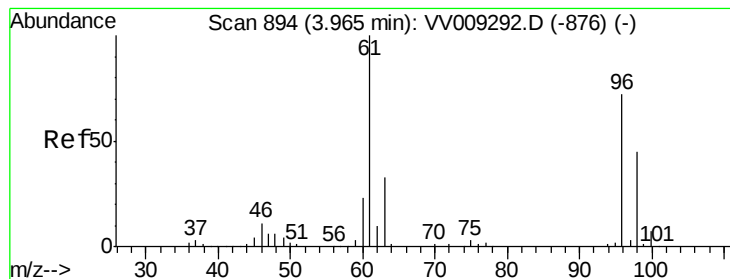
#21
 2-Butanone
 Concen: 40.980 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

Tgt Ion: 43 Resp: 106825
 Ion Ratio Lower Upper
 43 100
 72 21.5 11.3 33.8



Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0



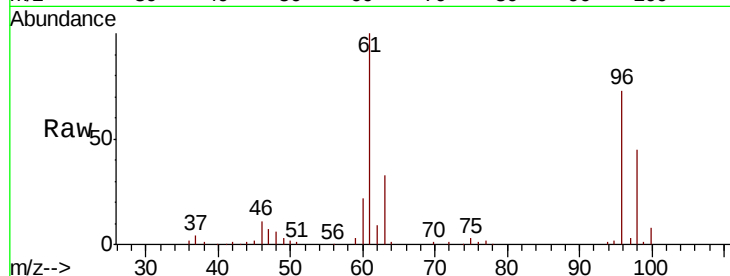


#22

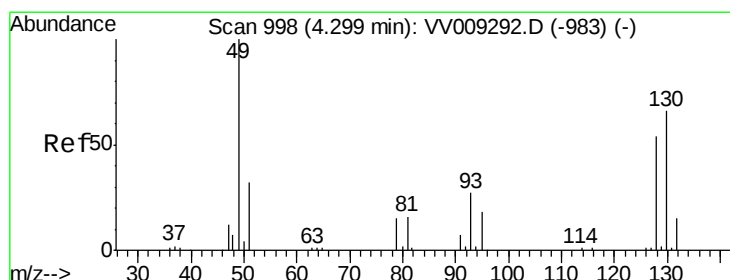
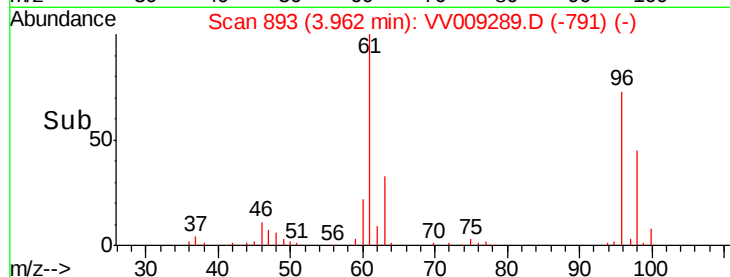
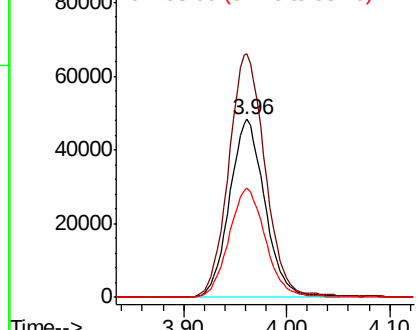
cis-1,2-Dichloroethene
Concen: 25.327 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

Tot Ion: 96 Resp: 115442
Ion Ratio Lower Upper
96 100
61 136.7 96.9 179.9
98 61.2 44.0 81.8



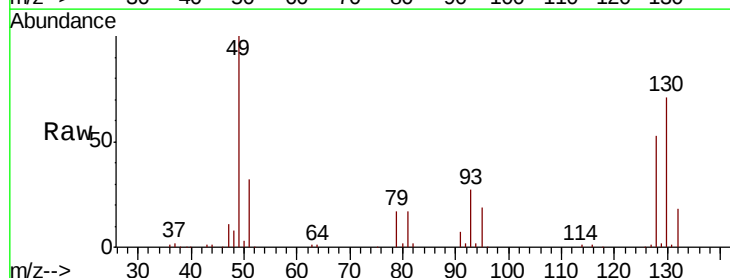
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



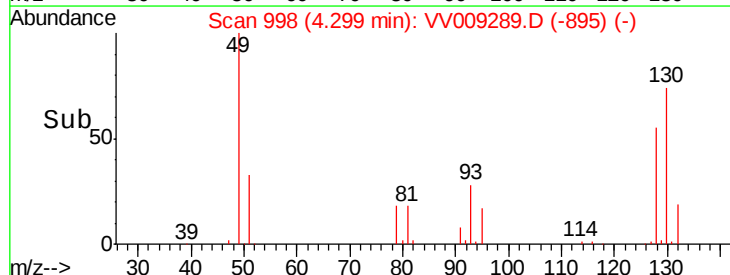
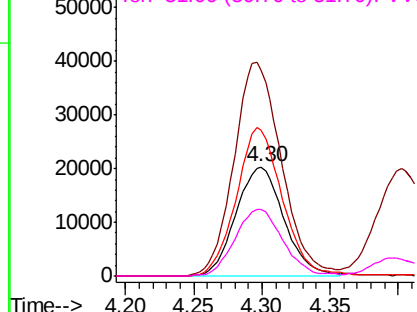
#23

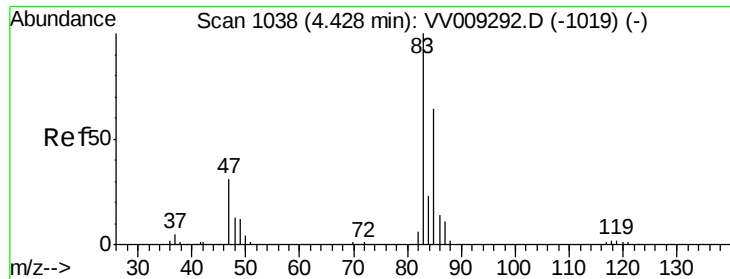
Bromochloromethane
Concen: 24.185 ug/L
RT: 4.30 min Scan# 998
Delta R.T. 0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Tgt Ion: 128 Resp: 49622
Ion Ratio Lower Upper
128 100
49 189.6 130.6 242.6
130 134.1 85.9 159.5
51 61.1 47.2 70.8



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





#25

Chloroform

Concen: 26.391 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

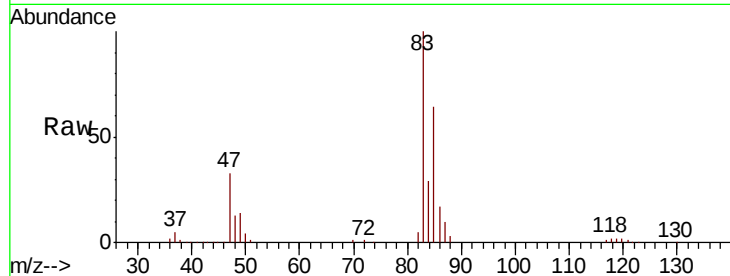
VSTDCCC025

Tot Ion: 83 Resp: 219047

Ion Ratio Lower Upper

83 100

85 65.4 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VV009292.D (-1019) (-)

Ion 85.00 (84.70 to 85.70): VV009292.D (-1019) (-)

4.42

80000

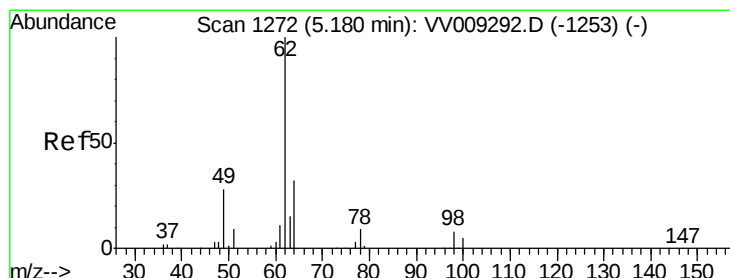
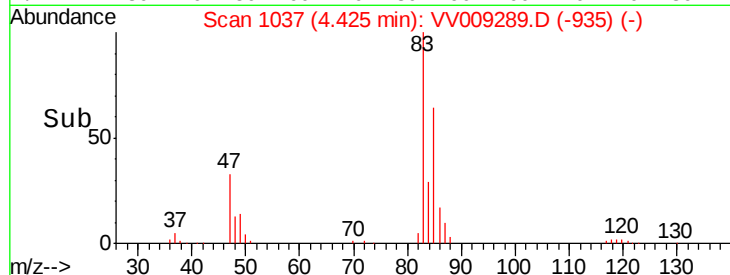
60000

40000

20000

0

Time-->



#27

1,2-Dichloroethane

Concen: 24.542 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV009289.D

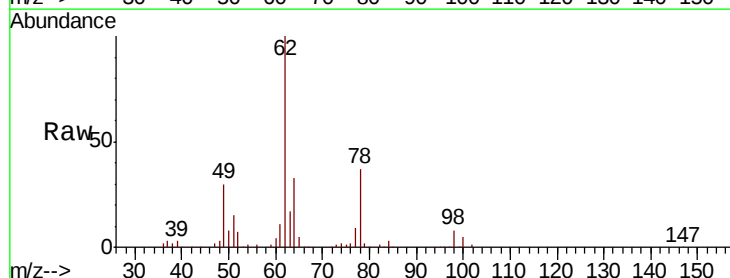
Acq: 13 Feb 2019 12:02

Tgt Ion: 62 Resp: 151882

Ion Ratio Lower Upper

62 100

98 7.5 6.2 9.4



Abundance Ion 62.00 (61.70 to 62.70): VV009292.D (-1253) (-)

Ion 98.00 (97.70 to 98.70): VV009292.D (-1253) (-)

5.18

80000

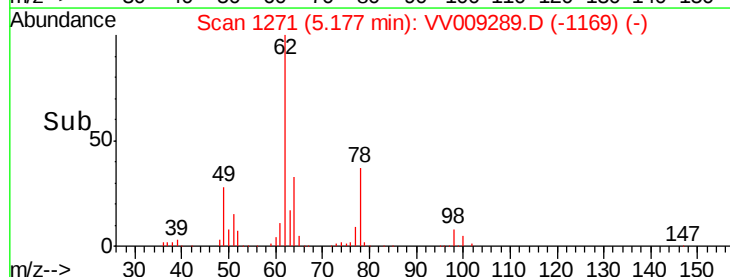
60000

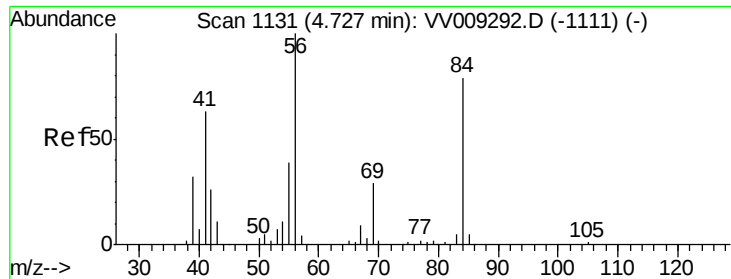
40000

20000

0

Time-->

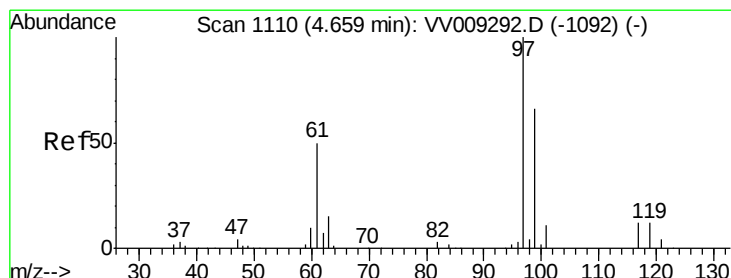
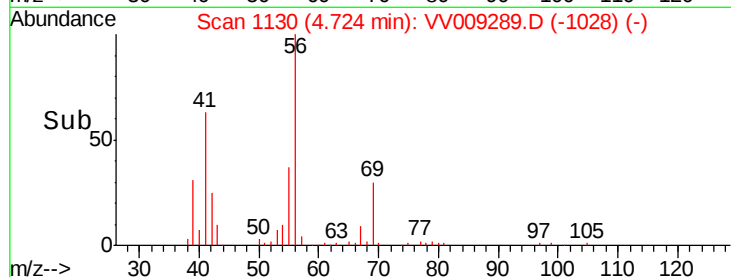
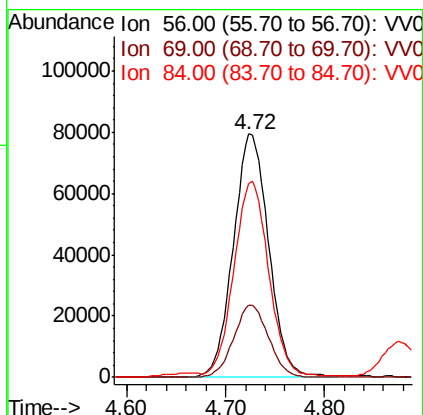
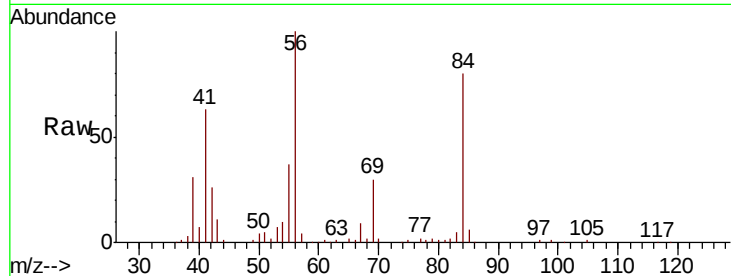




#30
Cvclohexane
Concen: 25.127 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

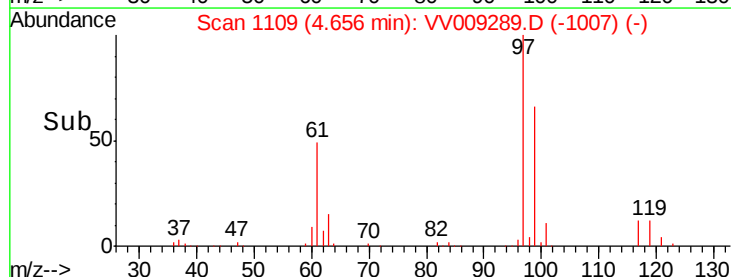
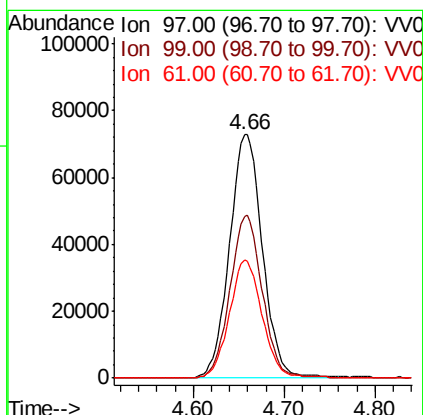
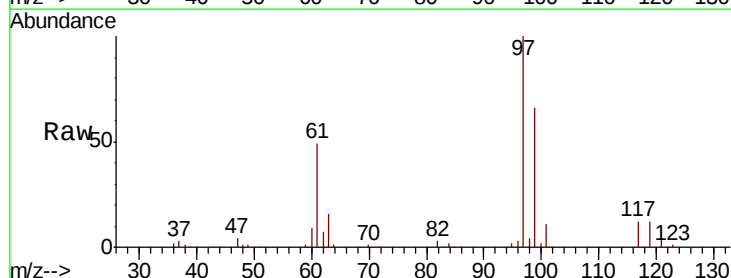
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

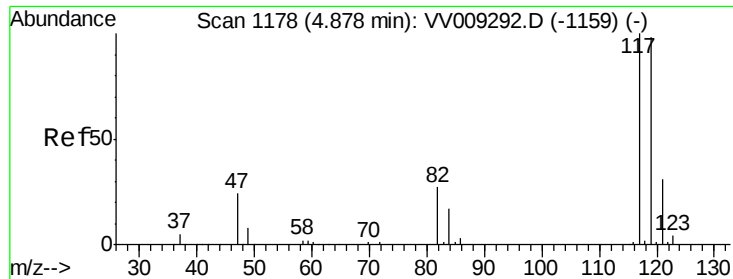
Tot Ion: 56 Resp: 197346
Ion Ratio Lower Upper
56 100
69 29.2 23.5 35.3
84 78.2 62.2 93.2



#31
1,1,1-Trichloroethane
Concen: 25.567 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Tgt Ion: 97 Resp: 183507
Ion Ratio Lower Upper
97 100
99 65.4 51.7 77.5
61 48.6 39.4 59.2





#32

Carbon tetrachloride

Concen: 25.585 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

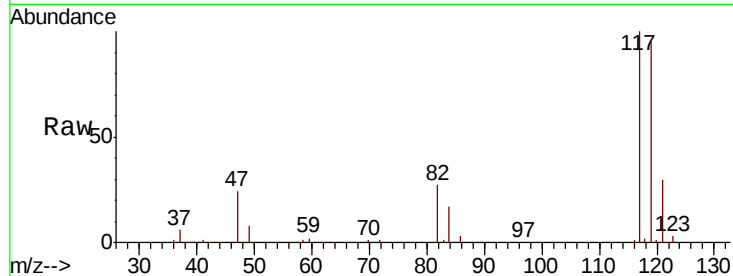
VSTDCCC025

Tot Ion:117 Resp: 161739

Ion Ratio Lower Upper

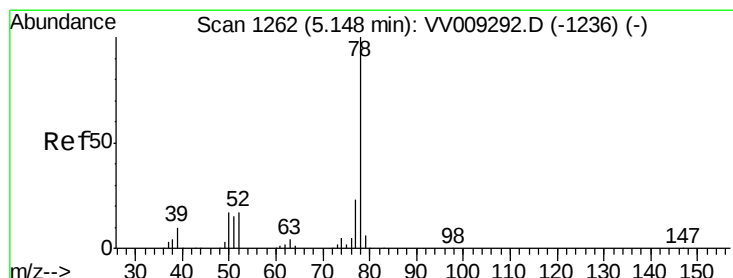
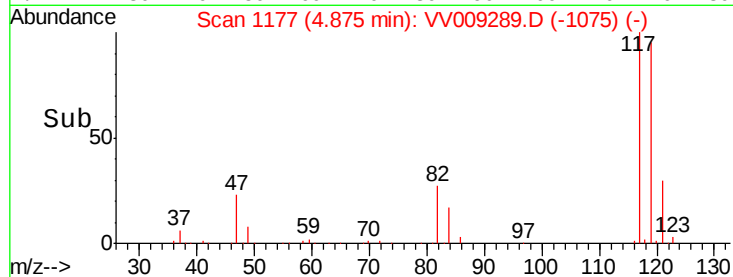
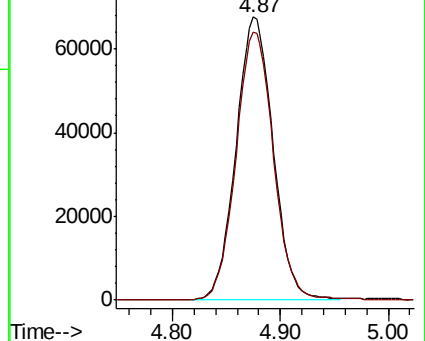
117 100

119 95.4 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.619 ug/L

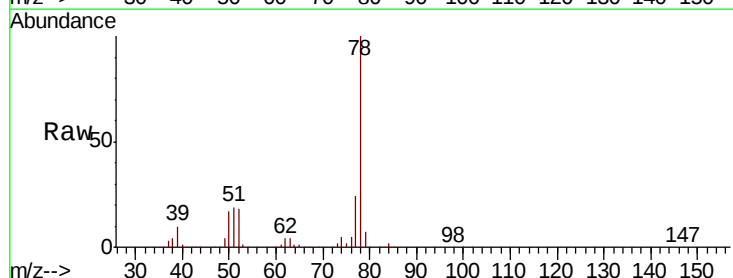
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

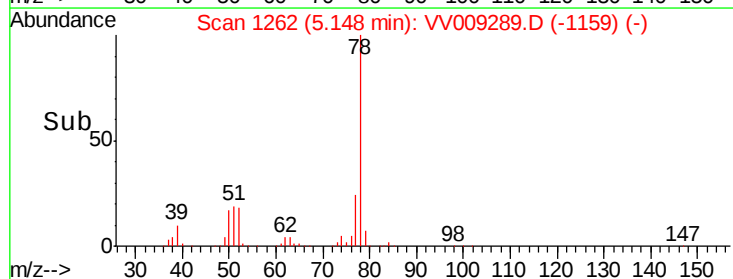
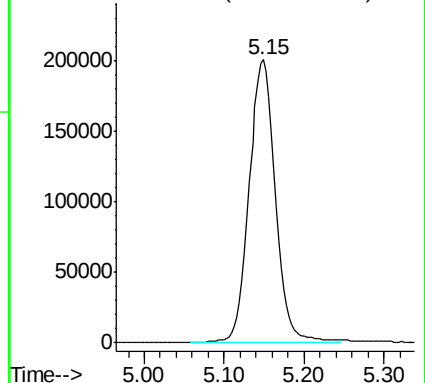
Lab File: VV009289.D

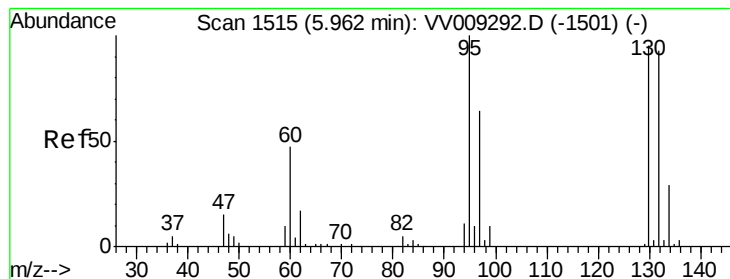
Acq: 13 Feb 2019 12:02

Tgt Ion: 78 Resp: 448433



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 25.688 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC025

Tot Ion: 95 Resp: 119700

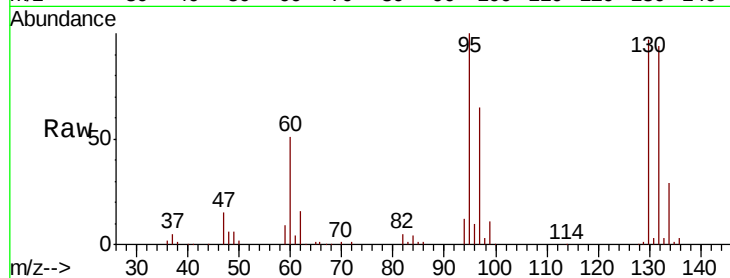
Ion Ratio Lower Upper

95 100

97 65.1 44.4 82.5

132 91.4 65.9 122.5

130 95.7 65.8 122.2

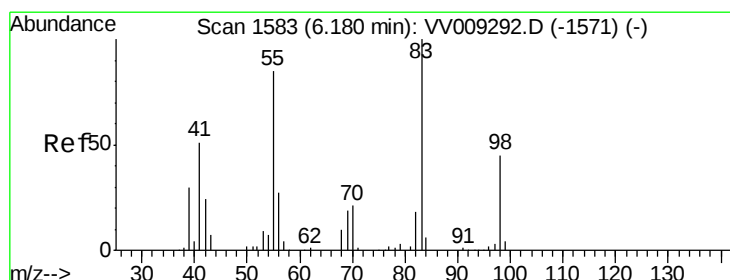
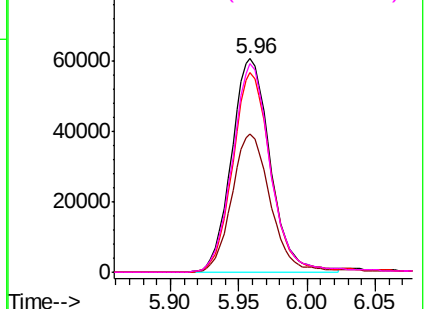
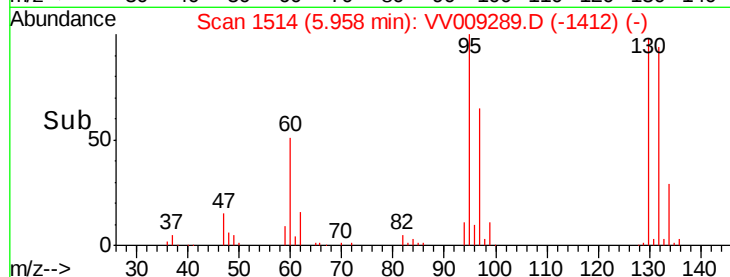


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 26.635 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

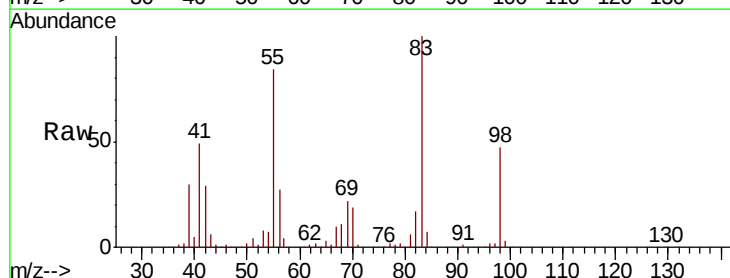
Tgt Ion: 83 Resp: 202137

Ion Ratio Lower Upper

83 100

55 84.2 70.6 105.8

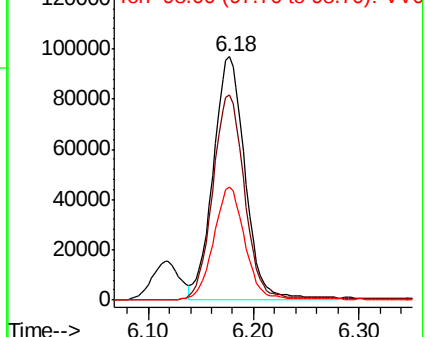
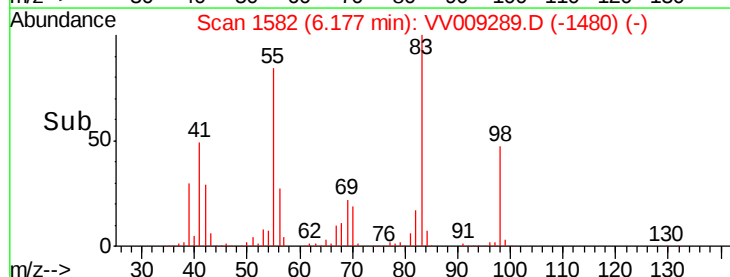
98 45.0 36.7 55.1

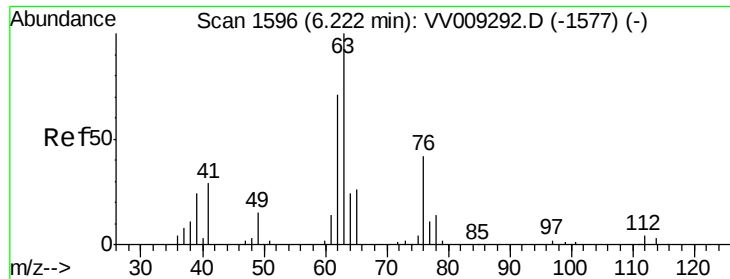


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 25.037 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

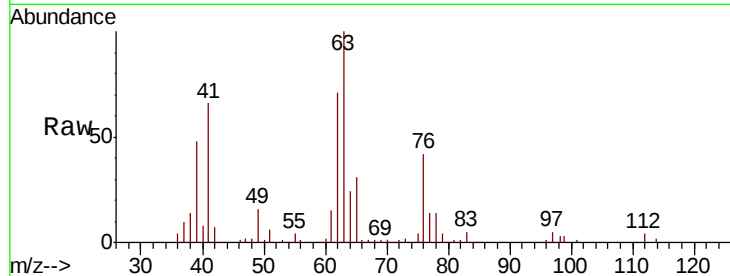
VSTDCCC025

Tot Ion: 63 Resp: 118761

Ion Ratio Lower Upper

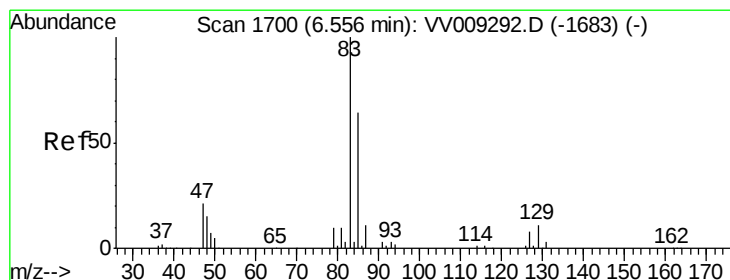
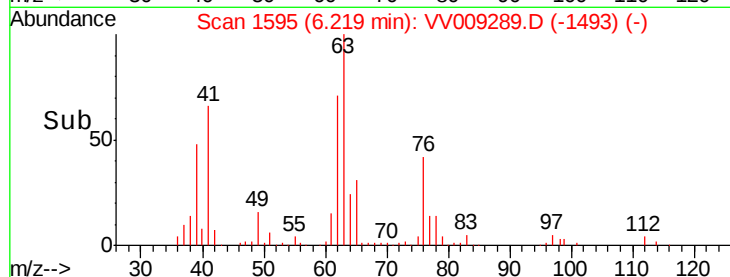
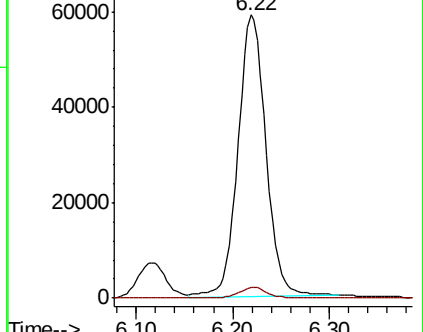
63 100

112 3.7 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VV009292.D (-1577) (-)

Ion 112.00 (111.70 to 112.70): VV009292.D (-1577) (-)



#41

Bromodichloromethane

Concen: 25.630 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

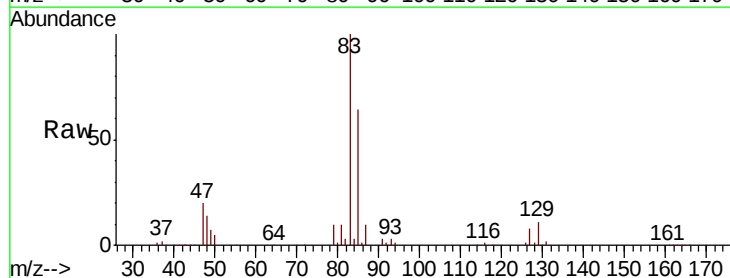
Tgt Ion: 83 Resp: 152911

Ion Ratio Lower Upper

83 100

85 63.5 45.0 83.6

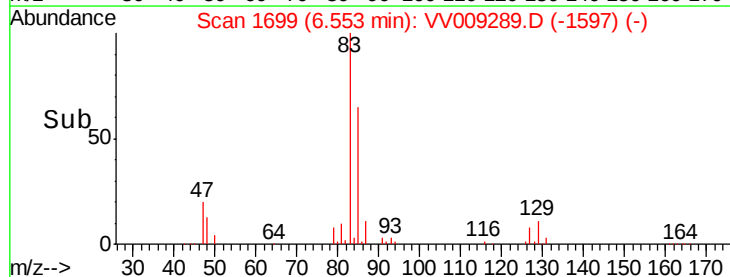
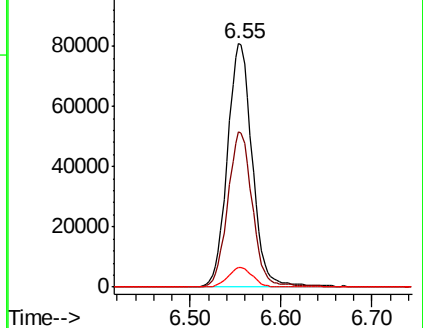
127 8.2 6.4 9.6

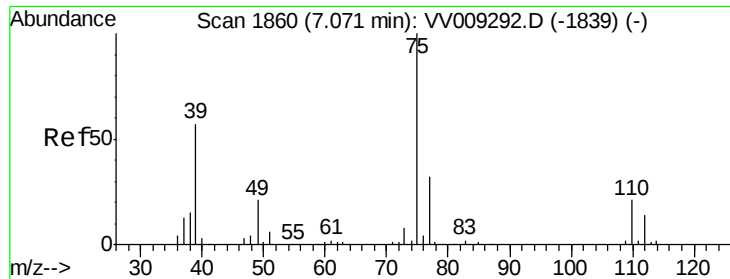


Abundance Ion 83.00 (82.70 to 83.70): VV009292.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV009292.D (-1683) (-)

Ion 127.00 (126.70 to 127.70): VV009292.D (-1683) (-)

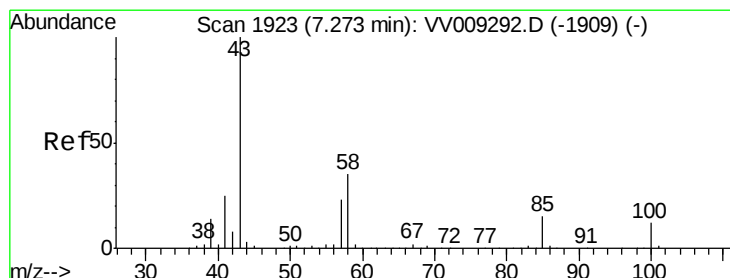
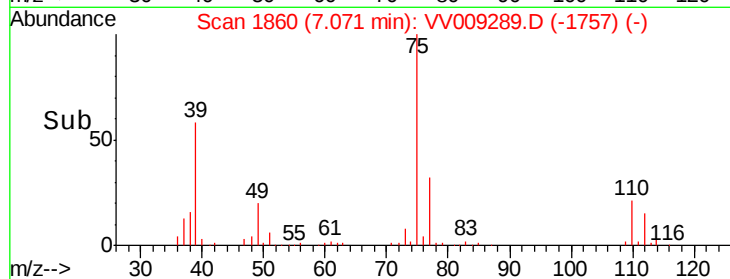
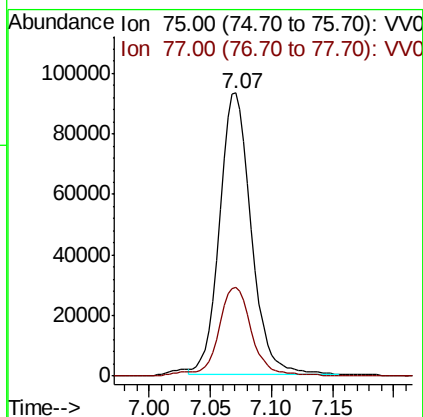
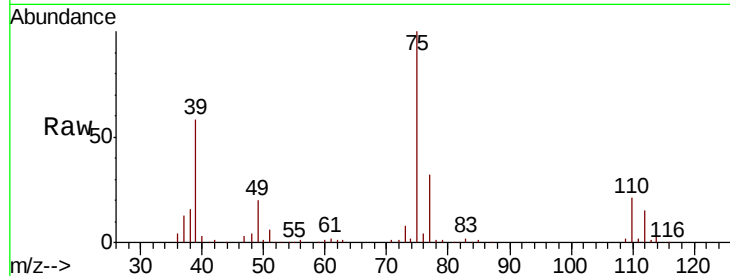




#42
 cis-1,3-Dichloropropene
 Concen: 24.350 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

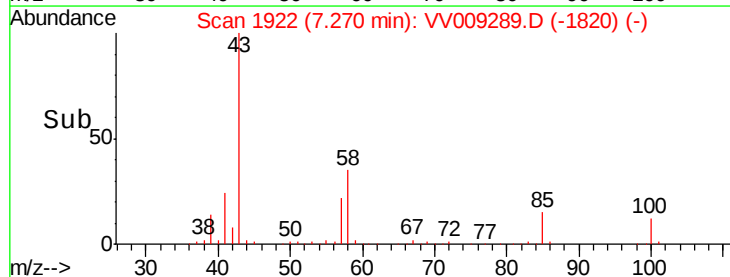
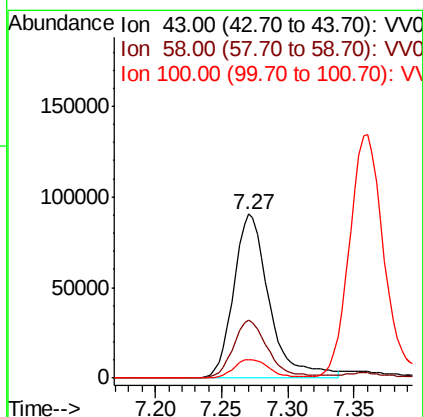
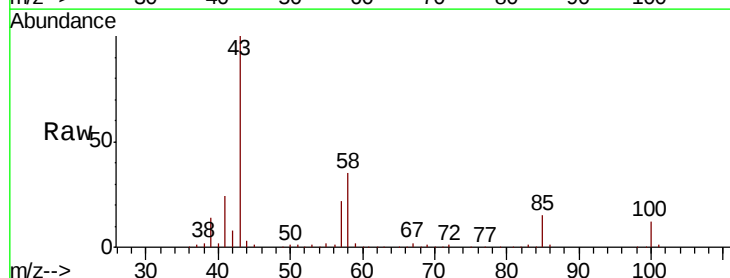
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC025

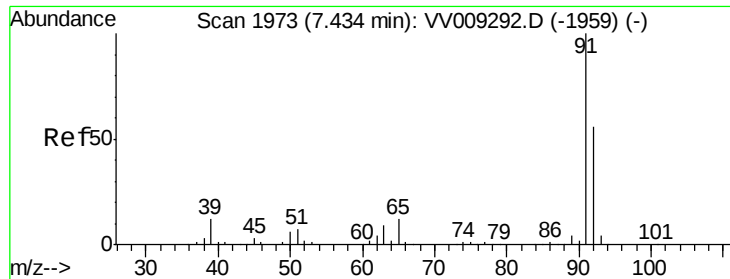
Tot Ion: 75 Resp: 168426
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.2 41.2



#43
 4-Methyl-2-pentanone
 Concen: 39.147 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

Tgt Ion: 43 Resp: 169090
 Ion Ratio Lower Upper
 43 100
 58 33.9 28.4 42.6
 100 11.5 9.6 14.4





#44

Toluene

Concen: 26.209 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

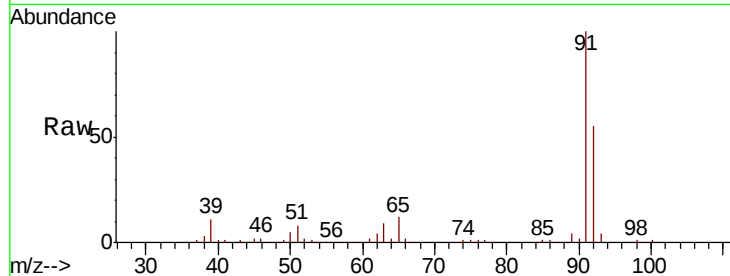
VSTDCCC025

Tot Ion: 91 Resp: 486946

Ion Ratio Lower Upper

91 100

92 55.3 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VV009289.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009289.D (-1959) (-)

7.43

250000

200000

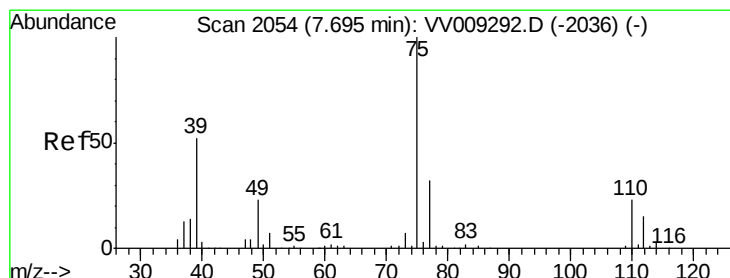
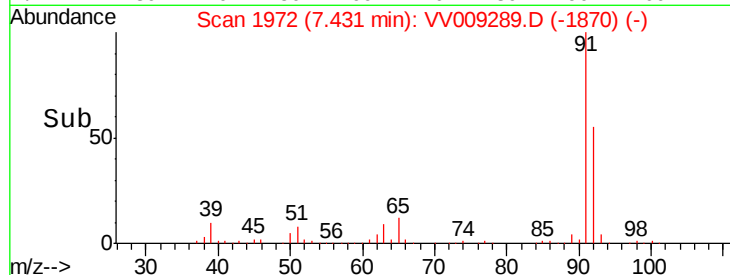
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.592 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009289.D

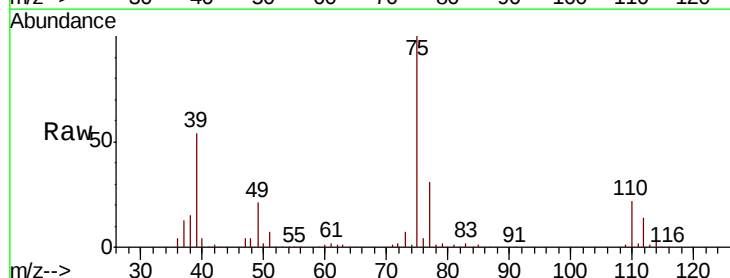
Acq: 13 Feb 2019 12:02

Tgt Ion: 75 Resp: 157678

Ion Ratio Lower Upper

75 100

77 30.6 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV009289.D (-1951) (-)

Ion 77.00 (76.70 to 77.70): VV009289.D (-1951) (-)

7.69

100000

80000

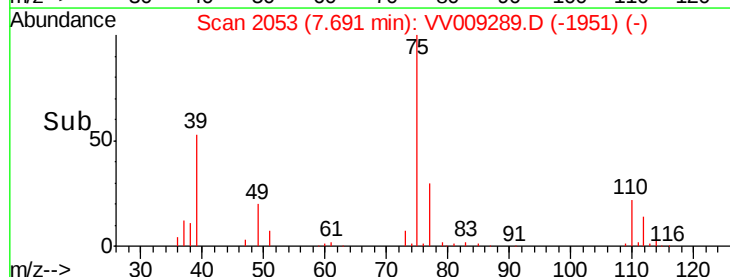
60000

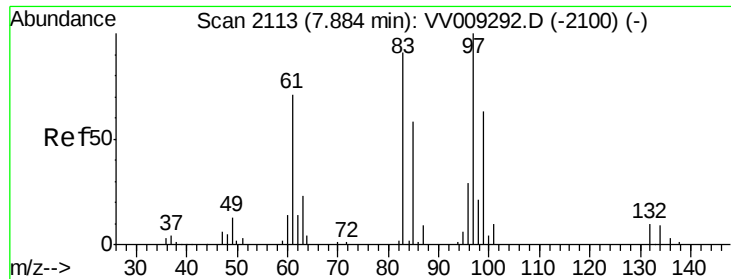
40000

20000

0

Time-->

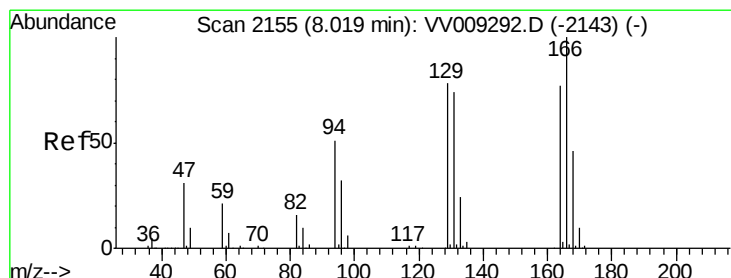
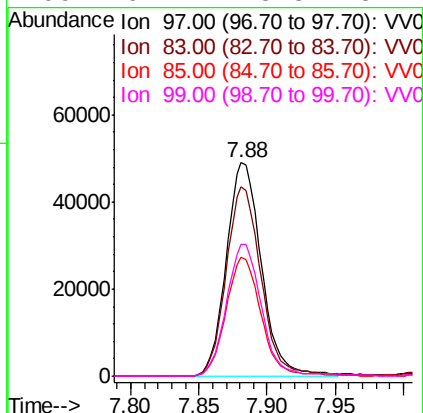
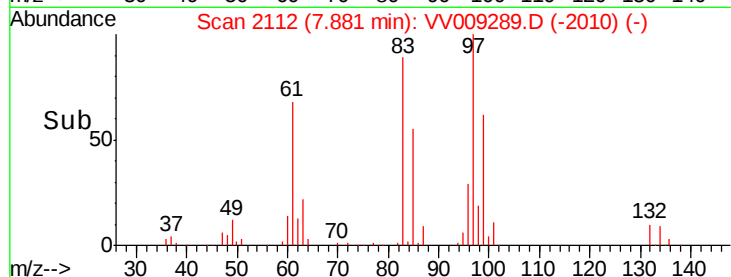
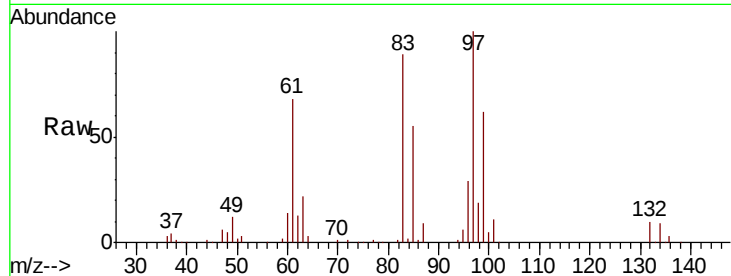




#46
1,1,2-Trichloroethane
Concen: 24.161 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

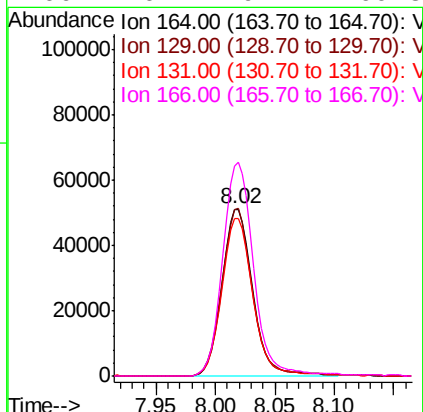
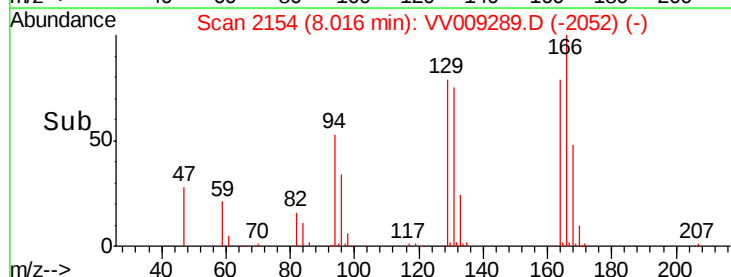
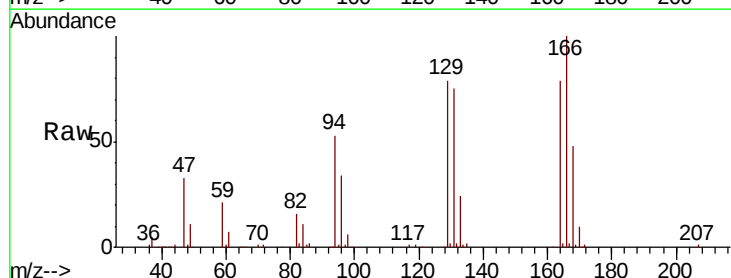
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

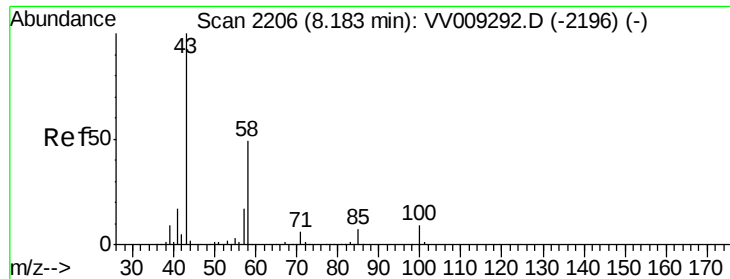
Tot Ion:	97	Resp:	87699
Ion	Ratio	Lower	Upper
97	100		
83	88.9	63.4	117.8
85	55.5	40.7	75.7
99	61.7	43.8	81.4



#47
Tetrachloroethene
Concen: 24.981 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Tgt Ion:	164	Resp:	91523
Ion	Ratio	Lower	Upper
164	100		
129	100.0	71.1	132.1
131	94.5	67.4	125.2
166	126.4	91.4	169.8

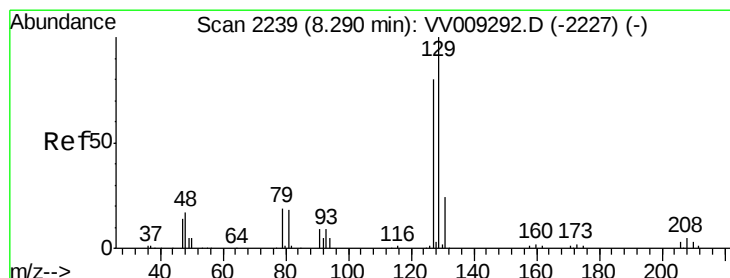
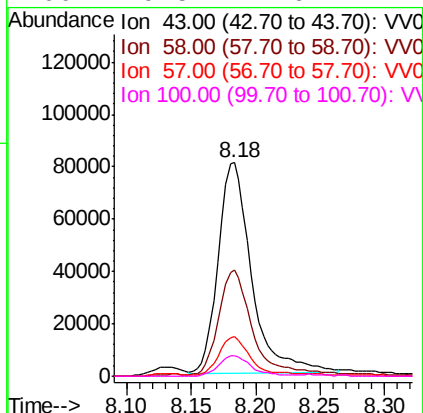
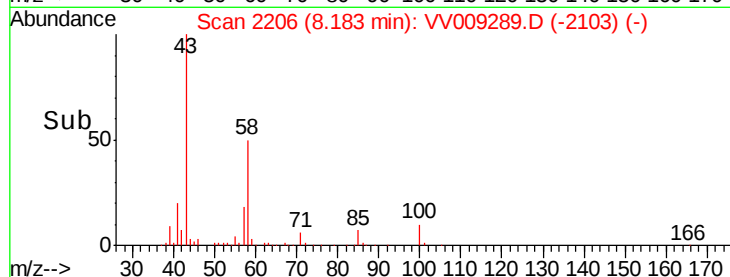
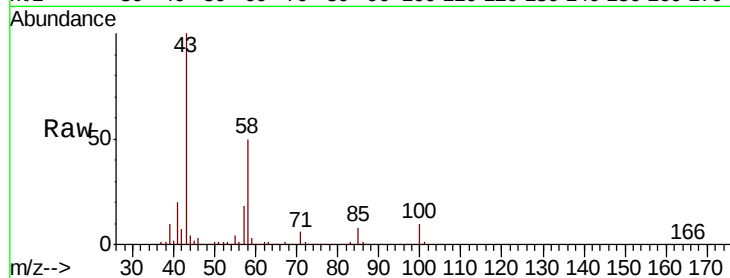




#49
2-Hexanone
Concen: 40.915 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

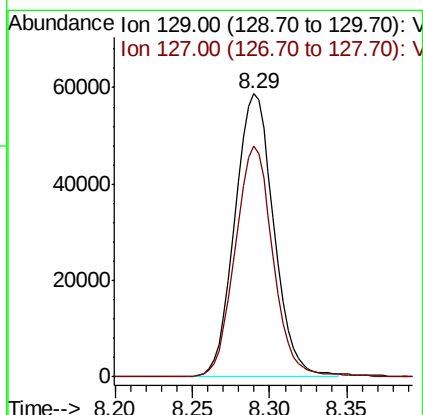
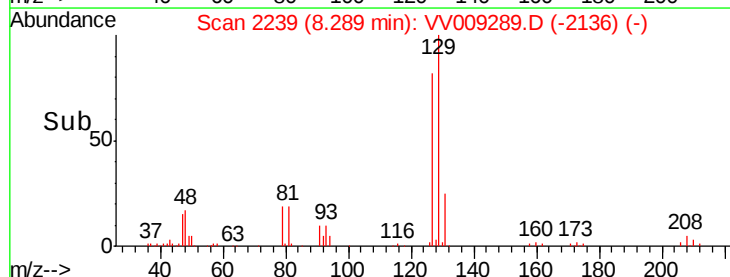
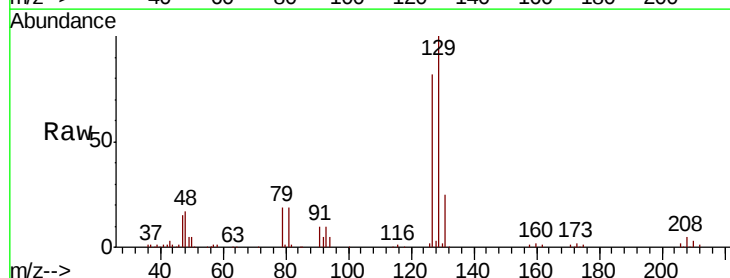
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

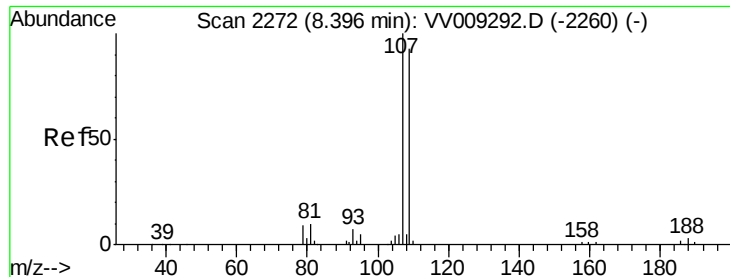
Tot Ion:	43	Resp:	145625
Ion	Ratio	Lower	Upper
43	100		
58	50.4	40.6	61.0
57	16.0	14.1	21.1
100	9.5	7.6	11.4



#50
Dibromochloromethane
Concen: 24.482 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Tgt Ion:	129	Resp:	102819
Ion	Ratio	Lower	Upper
129	100		
127	81.6	56.2	104.4

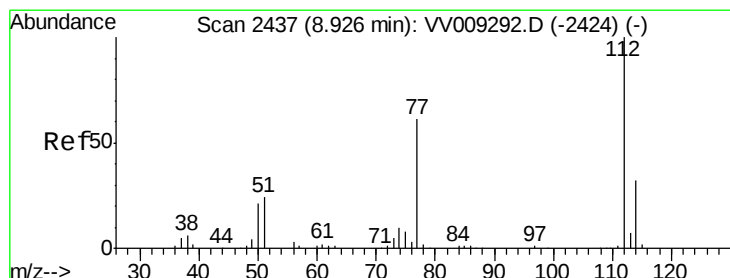
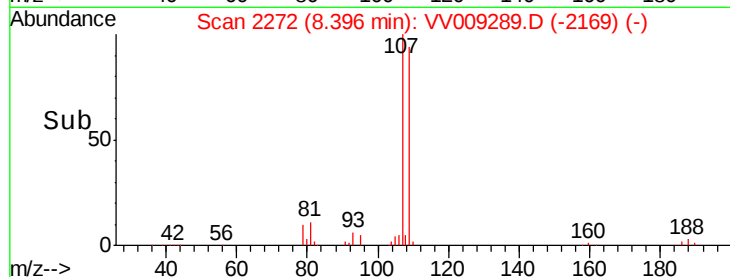
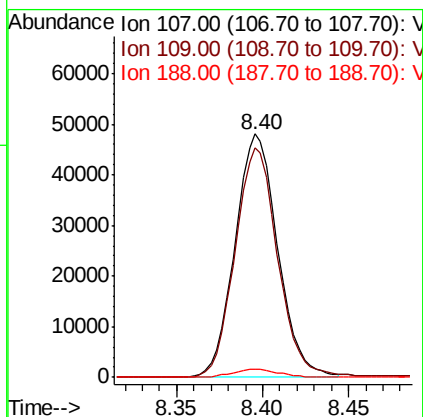
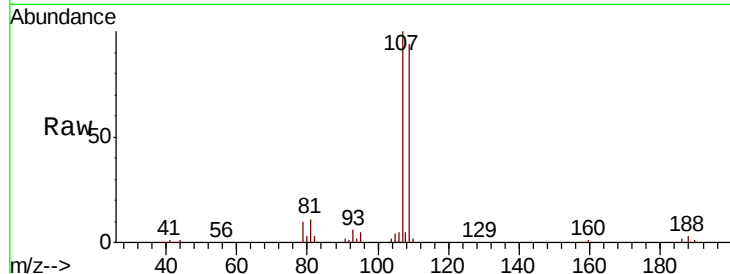




#51
 1,2-Dibromoethane
 Concen: 23.231 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

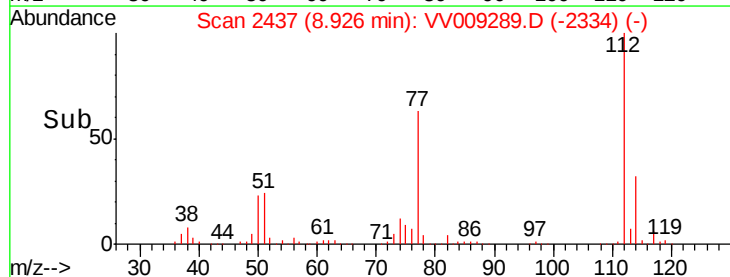
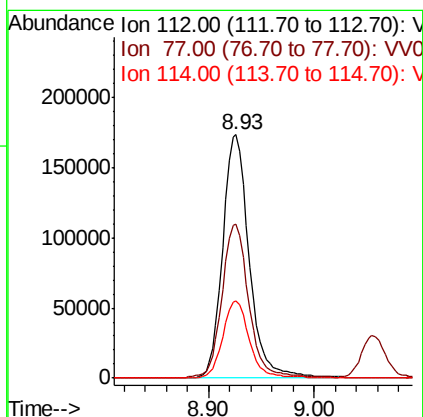
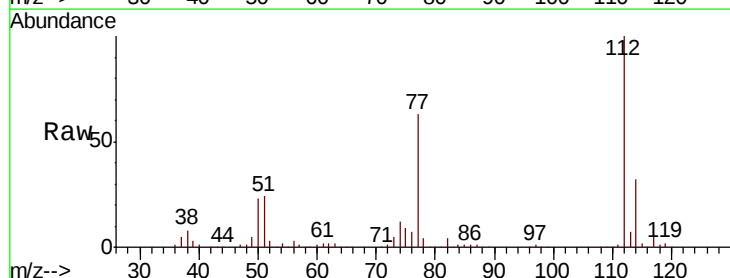
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC025

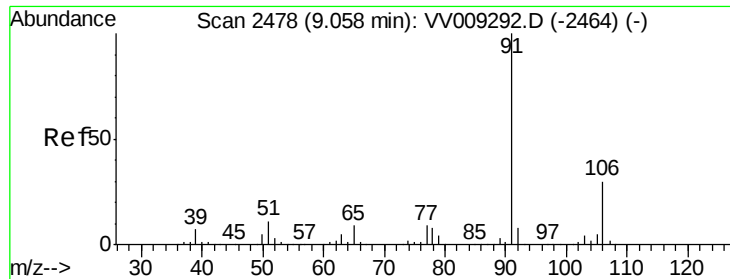
Tot Ion:107 Resp: 82878
 Ion Ratio Lower Upper
 107 100
 109 94.1 65.2 121.2
 188 3.4 2.8 4.2



#52
 Chlorobenzene
 Concen: 25.363 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

Tgt Ion:112 Resp: 302812
 Ion Ratio Lower Upper
 112 100
 77 63.1 48.9 73.3
 114 31.9 22.0 41.0

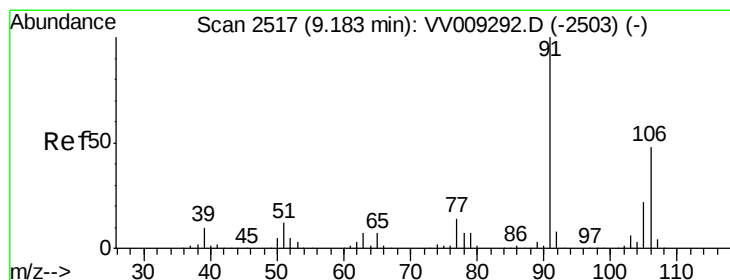
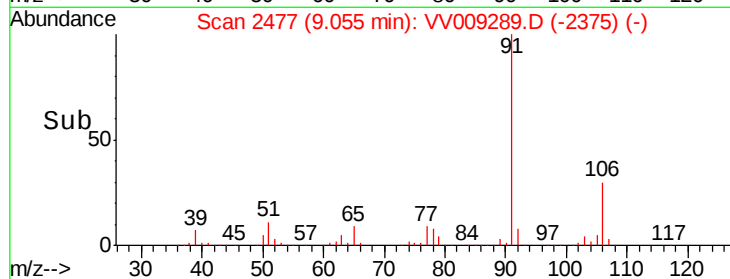
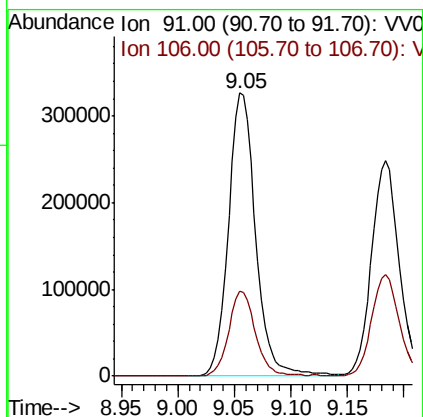
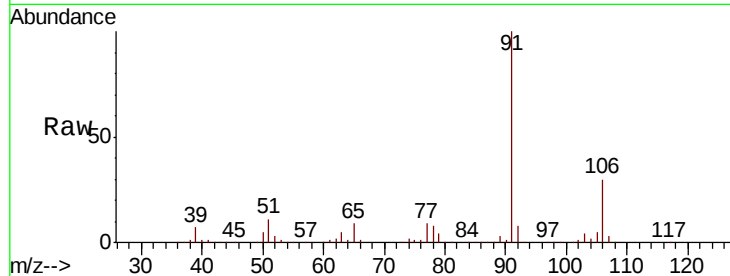




#53
Ethylbenzene
Concen: 26.468 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

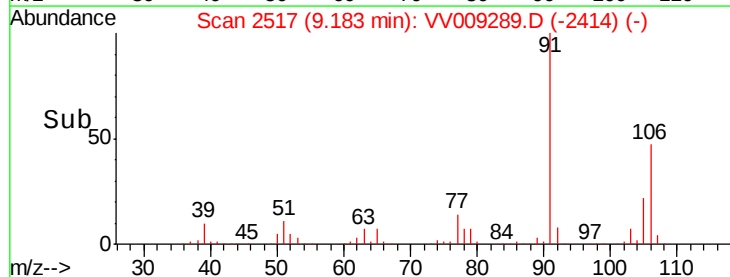
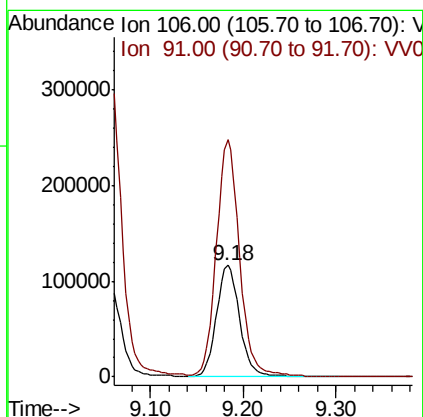
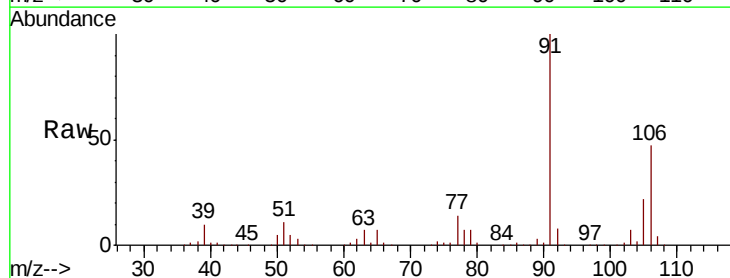
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

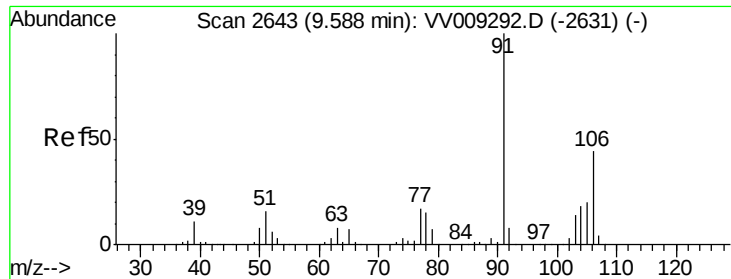
Tot Ion: 91 Resp: 547662
Ion Ratio Lower Upper
91 100
106 30.2 20.7 38.5



#54
m,p-Xylene
Concen: 26.885 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV009289.D
Acq: 13 Feb 2019 12:02

Tgt Ion: 106 Resp: 204648
Ion Ratio Lower Upper
106 100
91 212.4 145.3 269.9





#55

o-xylene

Concen: 26.991 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

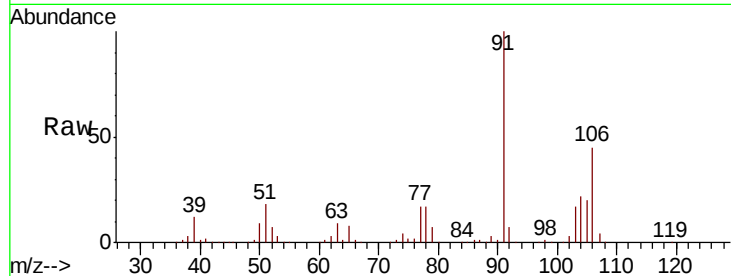
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC025

Tot Ion:106 Resp: 193091

Ion Ratio Lower Upper

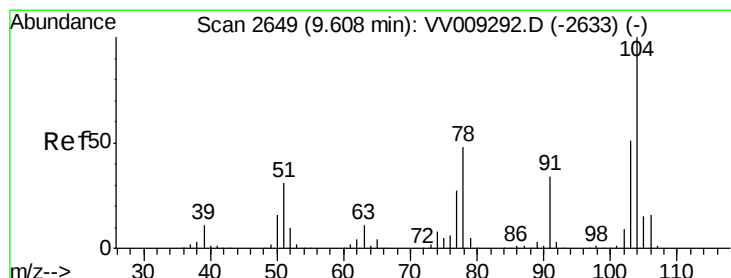
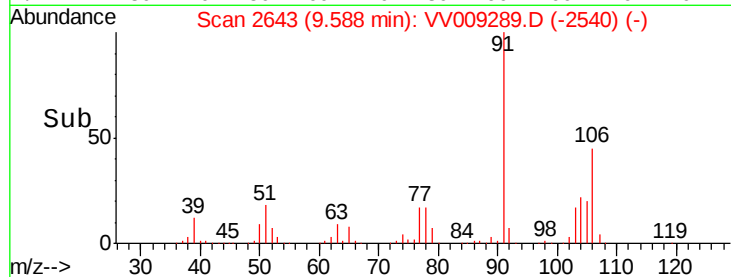
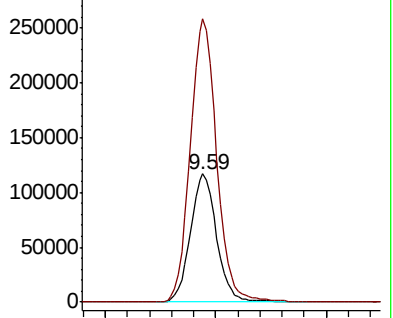
106 100

91 220.5 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 27.198 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009289.D

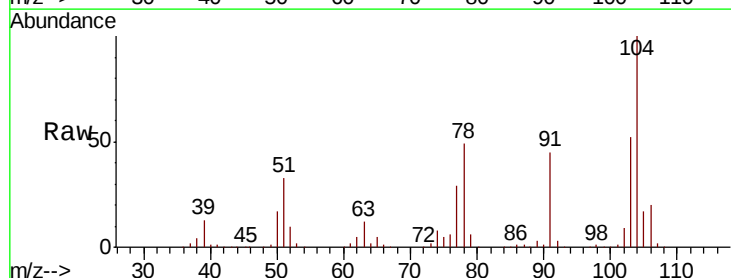
Acq: 13 Feb 2019 12:02

Tgt Ion:104 Resp: 333354

Ion Ratio Lower Upper

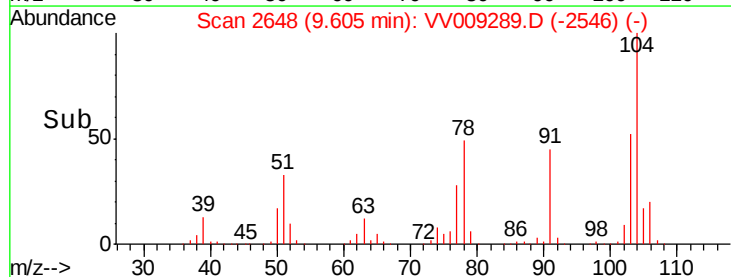
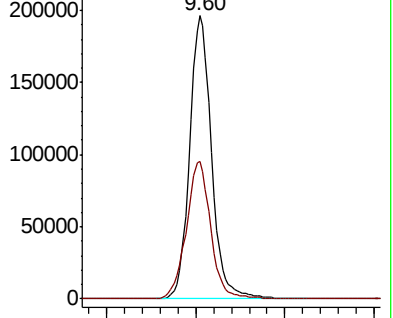
104 100

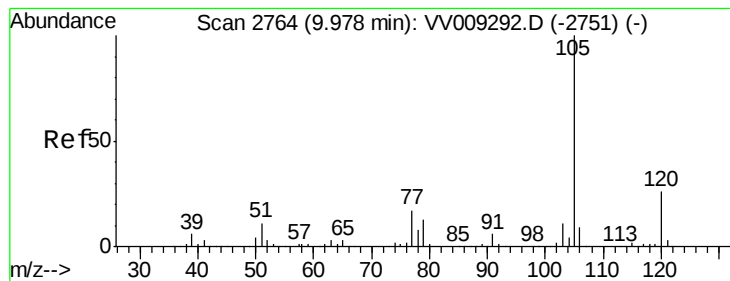
78 48.6 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.803 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC025

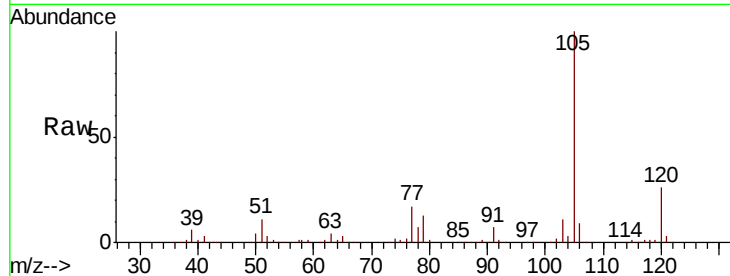
Tot Ion:105 Resp: 533950

Ion Ratio Lower Upper

105 100

120 25.8 21.1 31.7

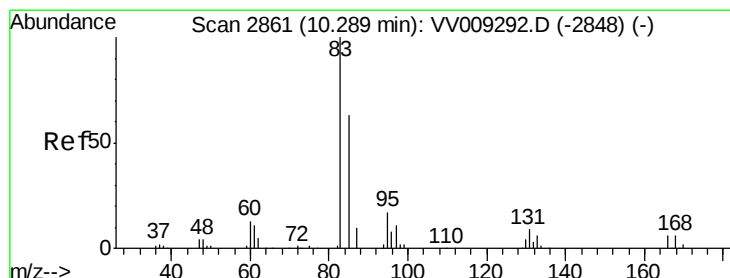
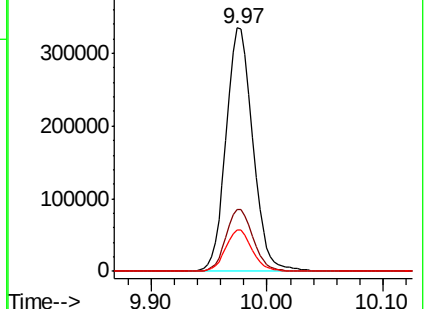
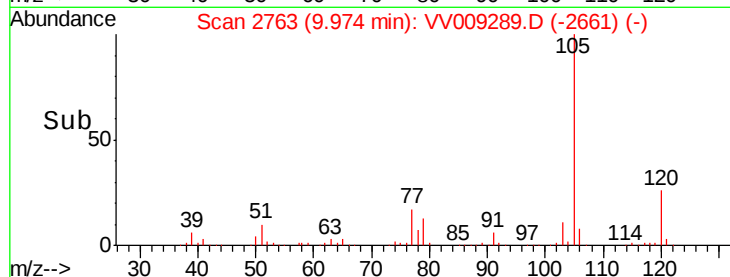
77 16.9 13.8 20.8



Abundance Ion 105.00 (104.70 to 105.70): VV009289.D (-2751) (-)

Ion 120.00 (119.70 to 120.70): VV009289.D (-2751) (-)

Ion 77.00 (76.70 to 77.70): VV009289.D (-2751) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 21.674 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

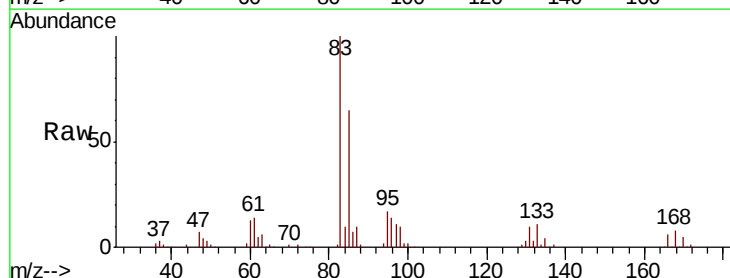
Tgt Ion: 83 Resp: 113577

Ion Ratio Lower Upper

83 100

85 65.2 44.7 82.9

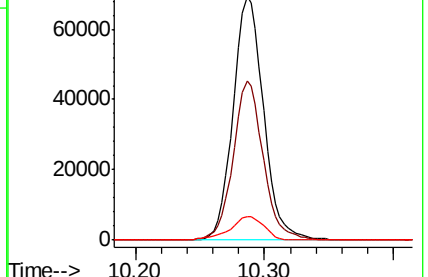
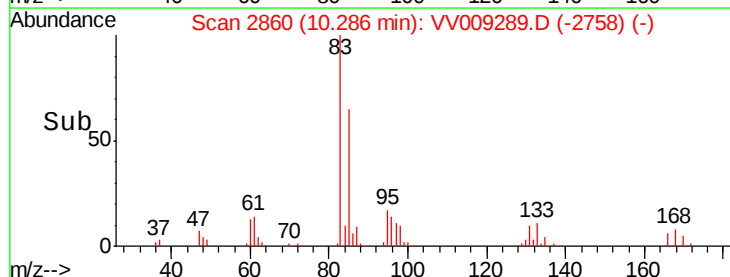
131 9.8 7.8 11.6

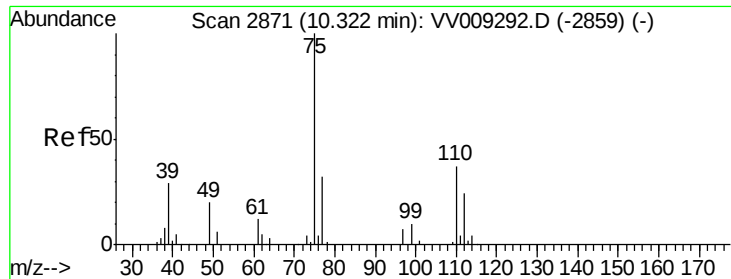


Abundance Ion 83.00 (82.70 to 83.70): VV009289.D (-2758) (-)

Ion 85.00 (84.70 to 85.70): VV009289.D (-2758) (-)

Ion 131.00 (130.70 to 131.70): VV009289.D (-2758) (-)

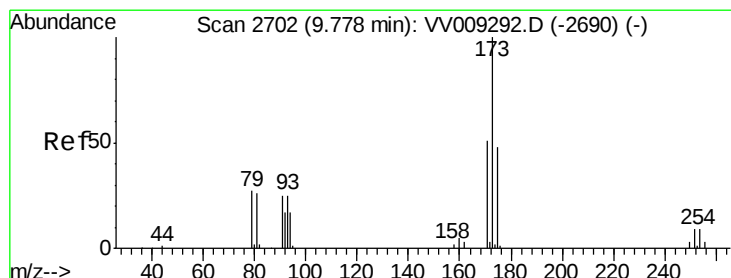
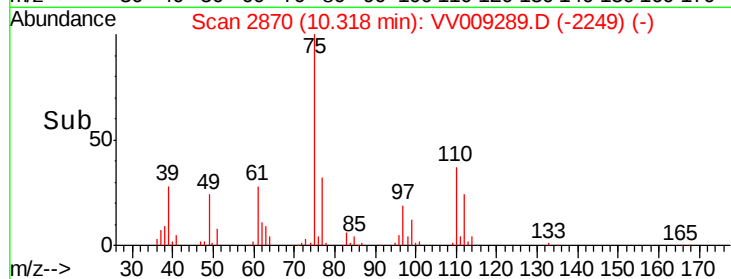
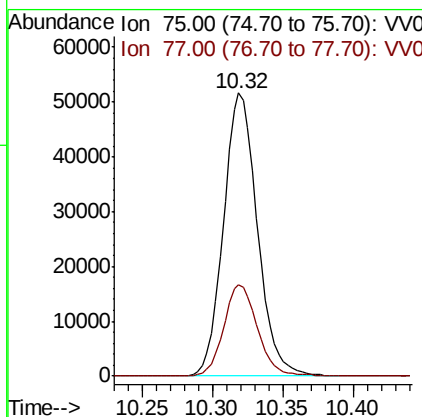
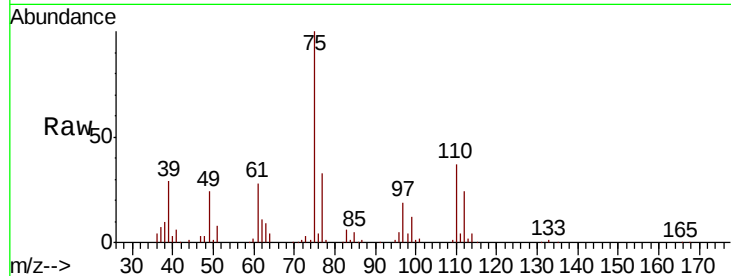




#59
 1,2,3-Trichloropropane
 Concen: 21.289 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

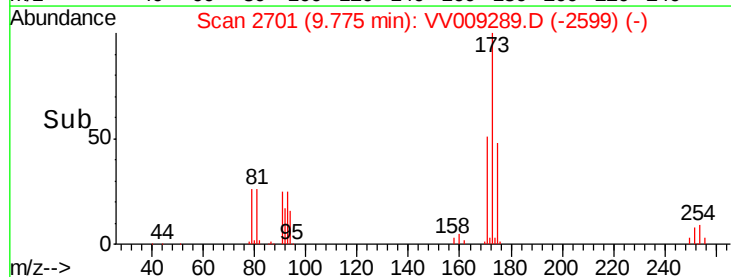
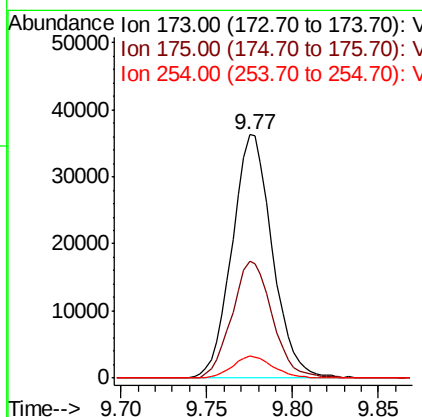
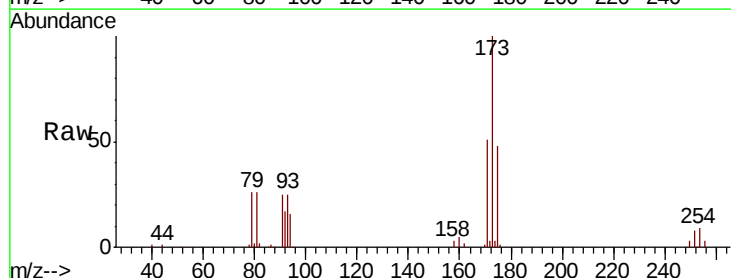
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC025

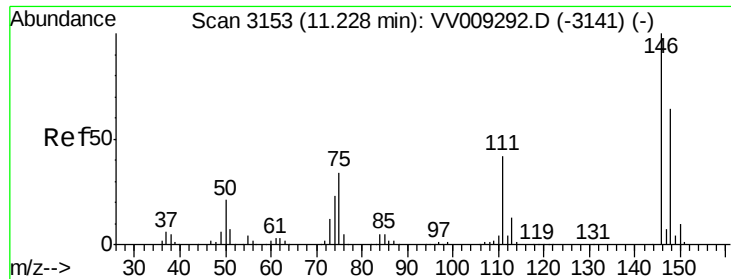
Tot Ion: 75 Resp: 86669
 Ion Ratio Lower Upper
 75 100
 77 32.1 26.2 39.2



#62
 Bromoform
 Concen: 23.279 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

Tgt Ion: 173 Resp: 59114
 Ion Ratio Lower Upper
 173 100
 175 48.0 39.9 59.9
 254 9.1 6.9 10.3

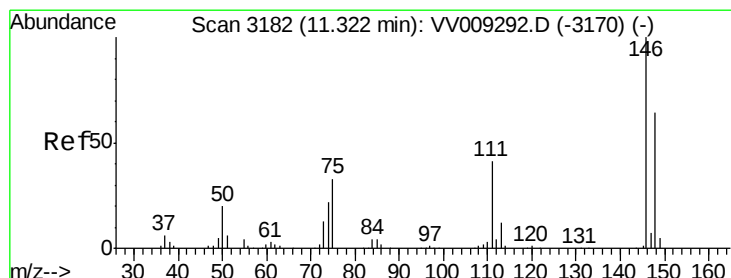
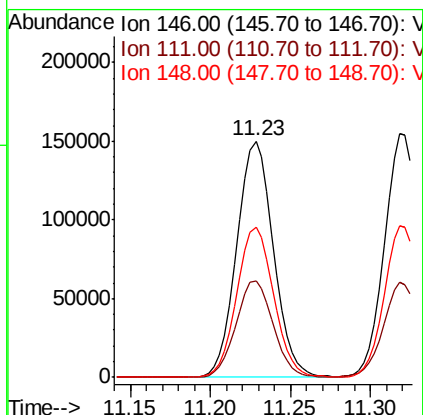
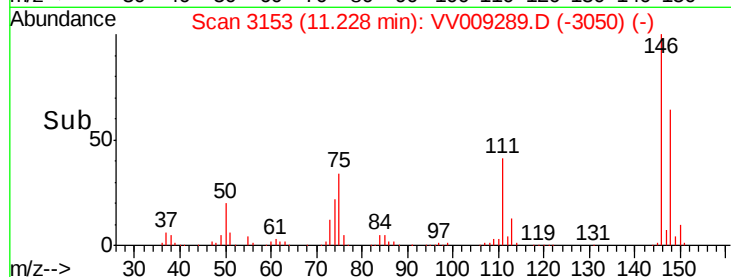
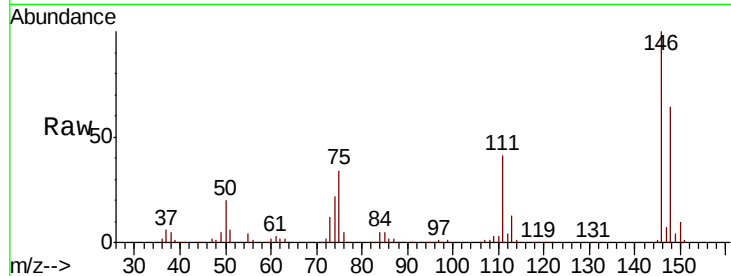




#63
 1,3-Dichlorobenzene
 Concen: 25.299 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

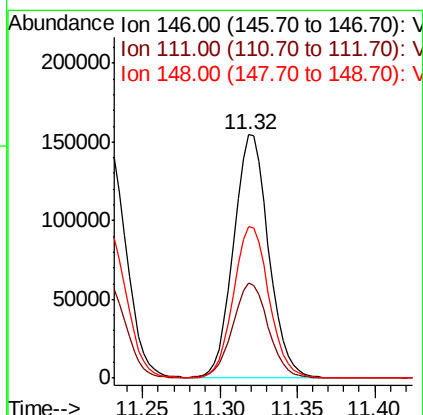
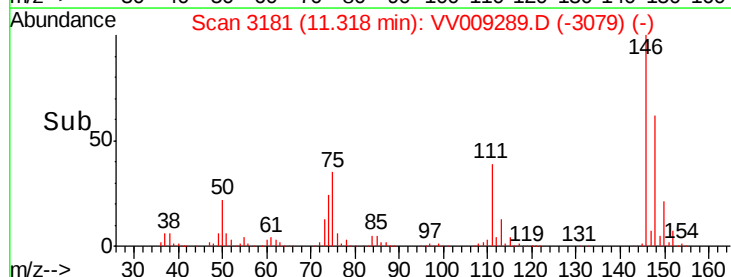
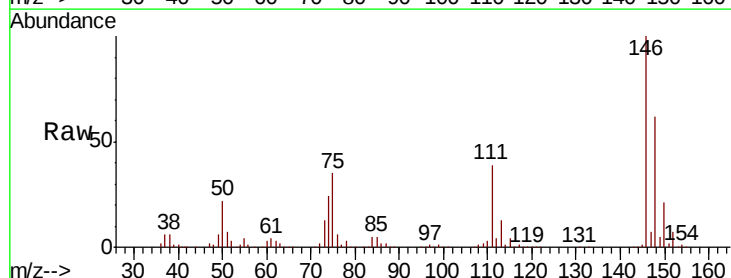
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC025

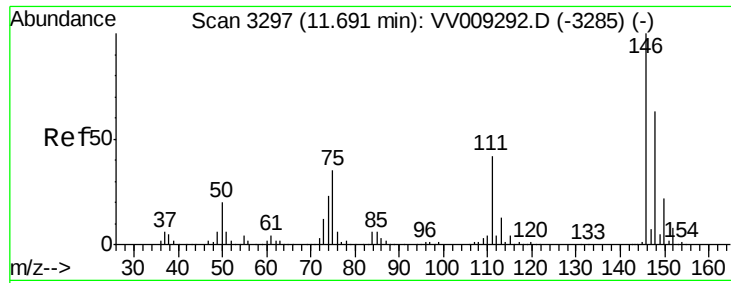
Tot Ion:146 Resp: 233944
 Ion Ratio Lower Upper
 146 100
 111 41.0 29.5 54.7
 148 63.8 44.5 82.7



#64
 1,4-Dichlorobenzene
 Concen: 25.598 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

Tgt Ion:146 Resp: 242372
 Ion Ratio Lower Upper
 146 100
 111 38.9 28.6 53.0
 148 62.4 45.1 83.7





#65

1,2-Dichlorobenzene

Concen: 24.644 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC025

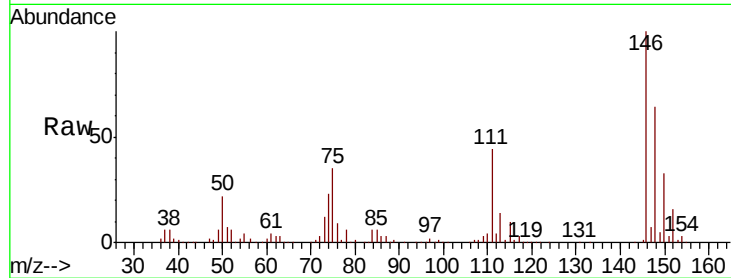
Tot Ion:146 Resp: 219908

Ion Ratio Lower Upper

146 100

111 43.8 33.8 50.8

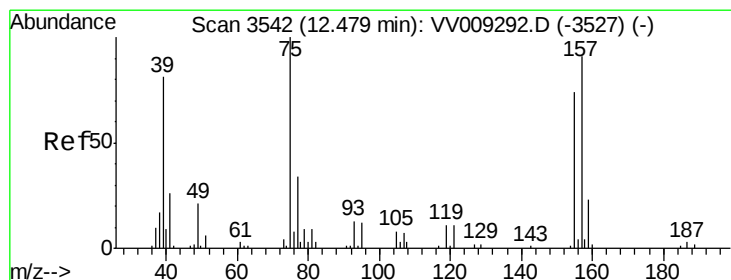
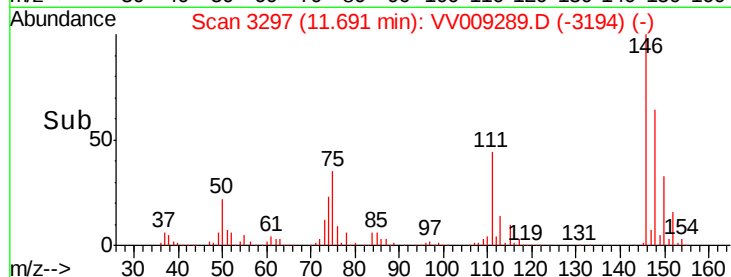
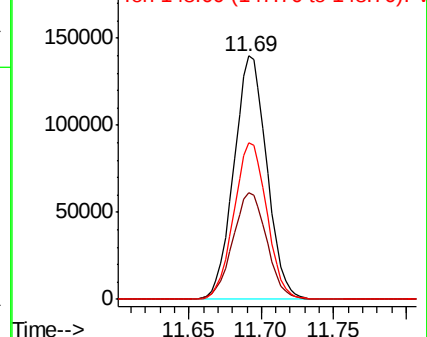
148 64.3 50.1 75.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.342 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

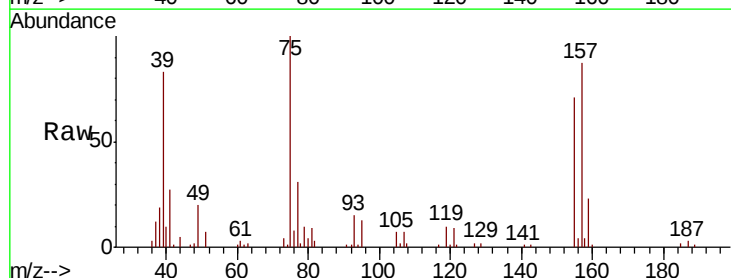
Tgt Ion: 75 Resp: 20077

Ion Ratio Lower Upper

75 100

157 86.9 72.6 109.0

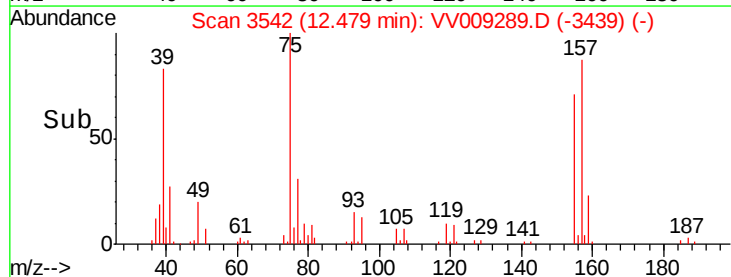
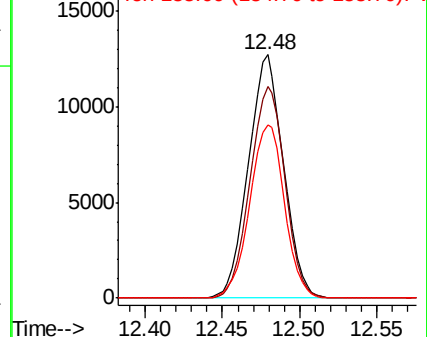
155 71.2 59.0 88.6

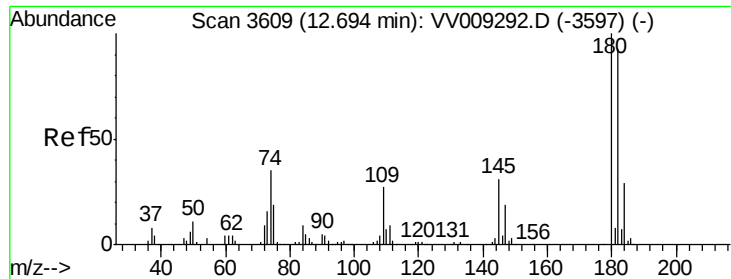


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

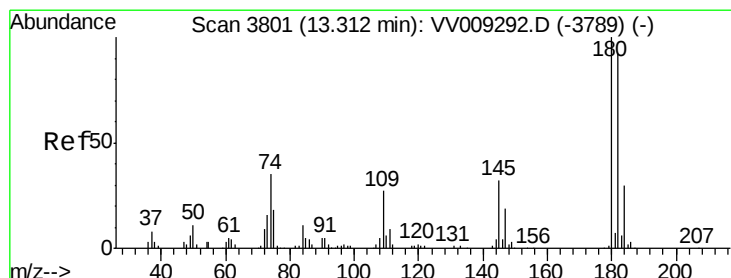
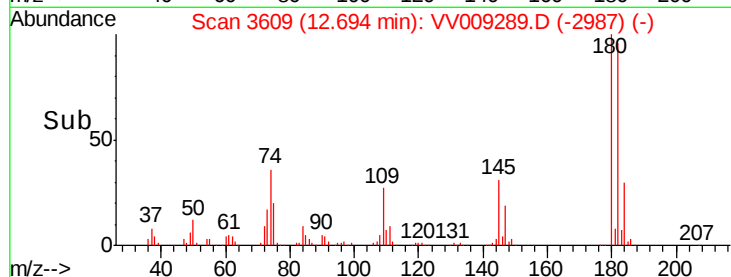
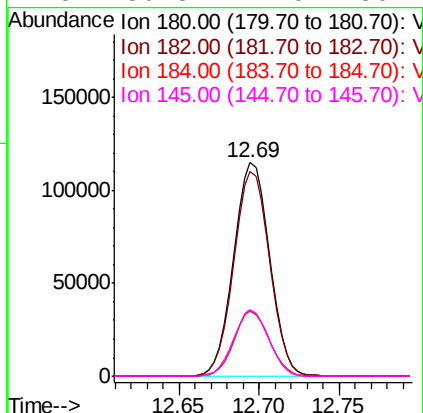
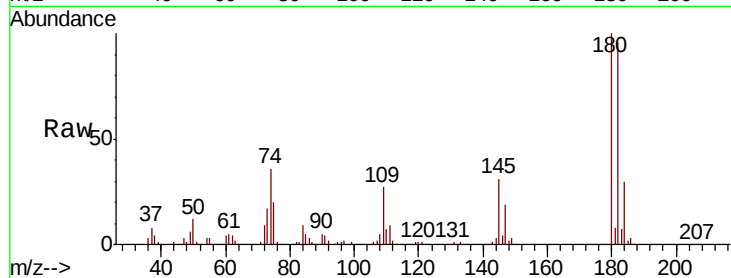




#67
 1,3,5-Trichlorobenzene
 Concen: 25.365 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

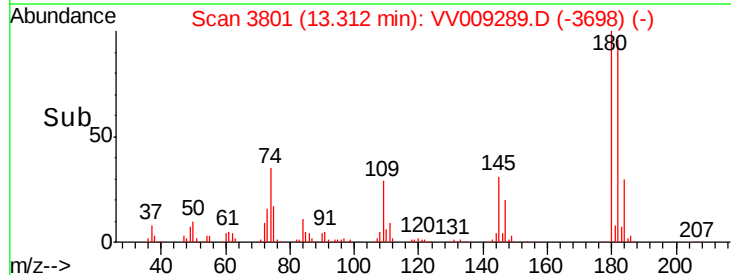
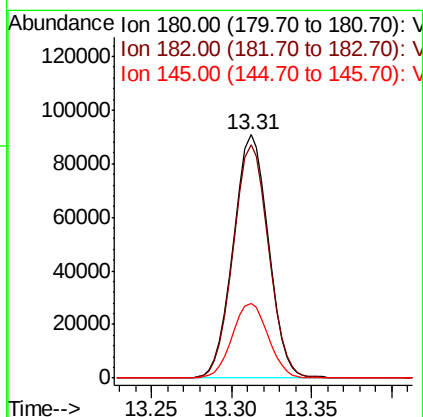
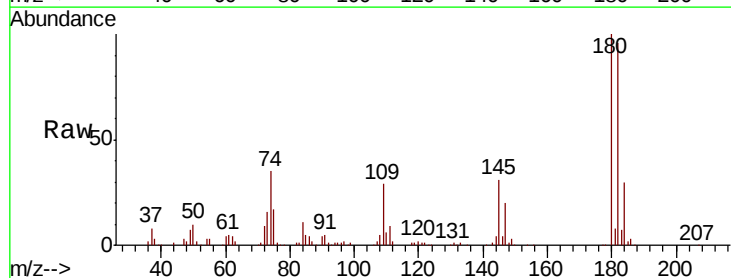
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC025

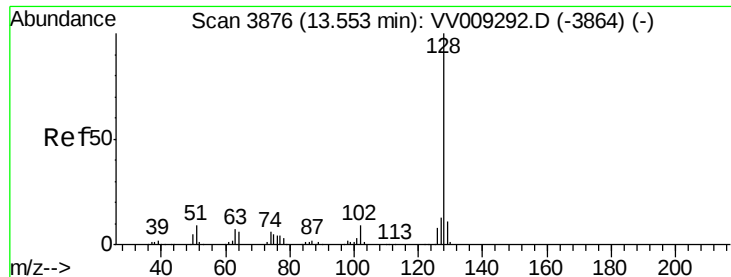
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.5	113.3
184	30.0	23.8	35.6
145	30.3	24.5	36.7



#68
 1,2,4-trichlorobenzene
 Concen: 24.740 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009289.D
 Acq: 13 Feb 2019 12:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	74.1	111.1
145	31.5	25.4	38.2





#69

Naphthalene

Concen: 20.989 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC025

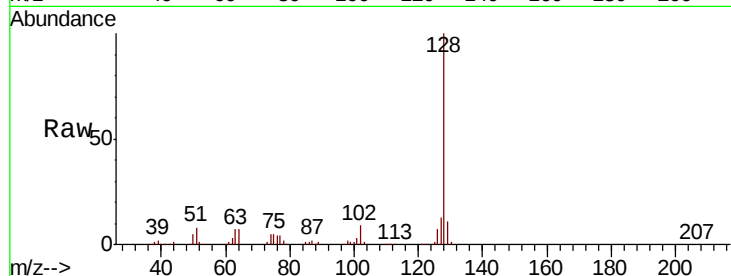
Tot Ion:128 Resp: 245369

Ion Ratio Lower Upper

128 100

129 10.5 8.8 13.2

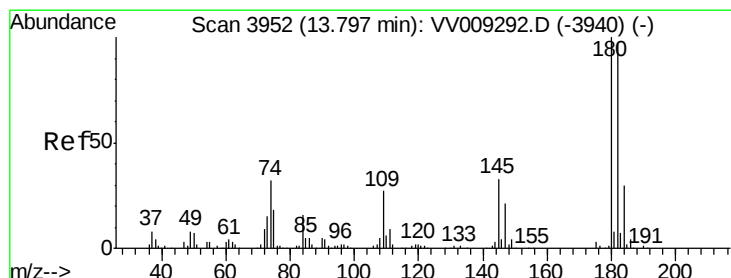
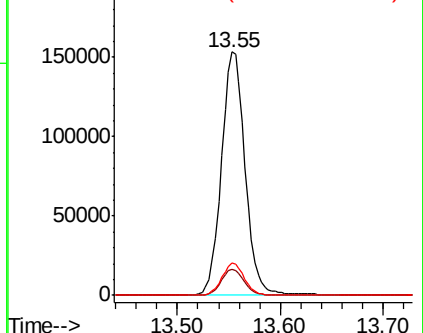
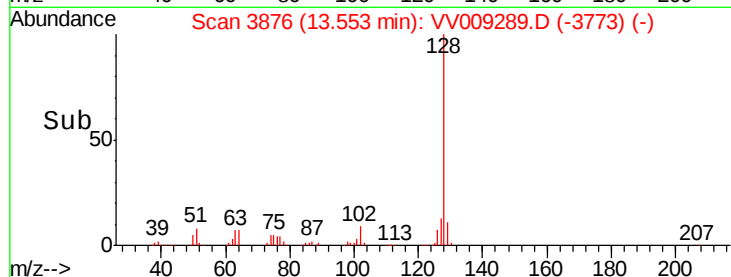
127 12.7 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 23.924 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009289.D

Acq: 13 Feb 2019 12:02

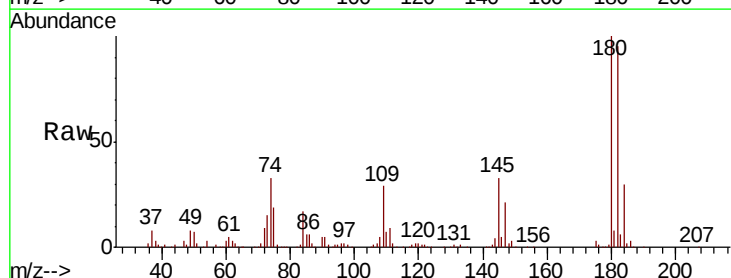
Tgt Ion:180 Resp: 125971

Ion Ratio Lower Upper

180 100

182 96.2 77.7 116.5

145 32.9 26.9 40.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

