

Data File : VV011063.D
Acq On : 28 May 2019 13:36
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02574

Quant Time: May 29 02:13:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis
QLast Update : Tue May 28 13:06:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	469771	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	451134	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	215785	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	156672	24.33	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.32%
7) Chloroethane-d5	1.57	69	115078	25.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.12%
10) 1,1-Dichloroethene-d2	2.13	63	300666	25.10	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.40%
20) 2-Butanone-d5	3.94	46	109820	49.47	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.94%
24) Chloroform-d	4.40	84	280847	24.65	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.08	65	177800	24.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.64%
29) Benzene-d6	5.10	84	649085	24.57	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.28%
33) 1,2-Dichloropropane-d6	6.12	67	205255	24.42	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.68%
37) Toluene-d8	7.36	98	615047	25.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.04%
38) trans-1,3-Dichloropropene-	7.66	79	96228	24.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.32%
39) 2-Hexanone-d5	8.13	63	89565	48.92	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.84%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	178708	24.73	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.92%
61) 1,2-Dichlorobenzene-d4	11.67	152	210348	24.65	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	213630	27.888 ug/L	99
3) Chloromethane	1.25	50	220471	29.178 ug/L	99
5) Vinyl chloride	1.32	62	195363	28.015 ug/L	99
6) Bromomethane	1.51	94	94531	31.454 ug/L	99
8) Chloroethane	1.59	64	106648	28.192 ug/L	100
9) Trichlorofluoromethane	1.76	101	259425	27.774 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	133224	26.579 ug/L	99
12) 1,1-Dichloroethene	2.14	96	124668	26.433 ug/L	99
13) Acetone	2.19	43	144735	57.554 ug/L	99
14) Carbon disulfide	2.31	76	426360	27.024 ug/L	100
15) Methyl Acetate	2.46	43	95428	26.290 ug/L #	100
16) Methylene chloride	2.53	84	175931	25.616 ug/L	100
17) Methyl tert-butyl Ether	2.81	73	450362	25.492 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	170632	26.448 ug/L	99
19) 1,1-Dichloroethane	3.23	63	328439	26.186 ug/L	99
21) 2-Butanone	4.02	43	175938	56.810 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	185089	25.471 ug/L	99

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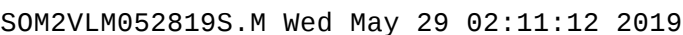
Instrument :
MSVOA_V
ClientSampleId :
VSTD02574

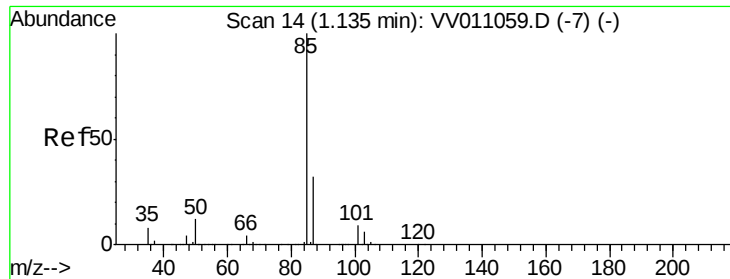
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Quant Title : VOC Analysis
QLast Update : Tue May 28 13:06:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	76254	24.773	ug/L	96
25) Chloroform	4.42	83	341683	25.797	ug/L	100
27) 1,2-Dichloroethane	5.18	62	226058	26.196	ug/L	99
30) Cyclohexane	4.72	56	339059	25.947	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	272718	26.550	ug/L	100
32) Carbon tetrachloride	4.87	117	232577	26.437	ug/L	100
34) Benzene	5.14	78	702895	25.766	ug/L	100
35) Trichloroethene	5.96	95	183600	25.769	ug/L	99
36) Methylcyclohexane	6.17	83	316494	25.744	ug/L	98
40) 1,2-Dichloropropane	6.22	63	184168	25.332	ug/L	100
41) Bromodichloromethane	6.55	83	236332	25.641	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	299926	25.821	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	317397	49.781	ug/L	99
44) Toluene	7.43	91	774598	26.115	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	254548	25.681	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	136846	25.397	ug/L	99
47) Tetrachloroethene	8.02	164	136938	26.650	ug/L	97
49) 2-Hexanone	8.18	43	266835	56.748	ug/L	97
50) Dibromochloromethane	8.29	129	159299	25.516	ug/L	98
51) 1,2-Dibromoethane	8.40	107	134483	26.082	ug/L	98
52) Chlorobenzene	8.92	112	482124	26.228	ug/L	99
53) Ethylbenzene	9.05	91	891828	26.374	ug/L	100
54) m,p-Xylene	9.18	106	332043	26.362	ug/L	99
55) o-xylene	9.59	106	321547	26.272	ug/L	98
56) Styrene	9.60	104	551437	26.573	ug/L	99
57) Isopropylbenzene	9.97	105	873284	26.735	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	182110	25.655	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	139010	25.625	ug/L	100
62) Bromoform	9.78	173	89956	24.781	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	374303	26.367	ug/L	100
64) 1,4-Dichlorobenzene	11.32	146	370598	26.233	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	345124	26.016	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	33446	24.699	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	279175	26.739	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	229521	27.633	ug/L	99
69) Naphthalene	13.55	128	492985	28.772	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	210070	27.637	ug/L	100

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

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#2

Dichlorodifluoromethane

Concen: 27.888 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

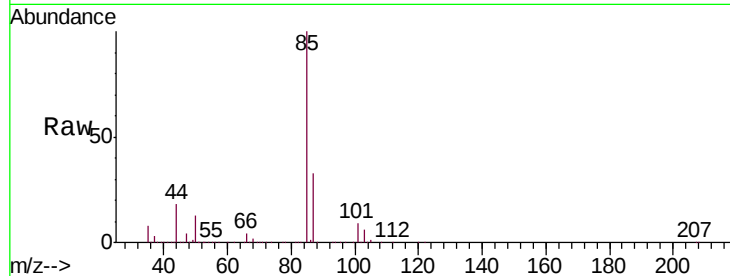
VSTD02574

Tgt Ion: 85 Resp: 213630

Ion Ratio Lower Upper

85 100

87 32.9 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VV011059.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV011059.D (-7) (-)

1.14

250000

200000

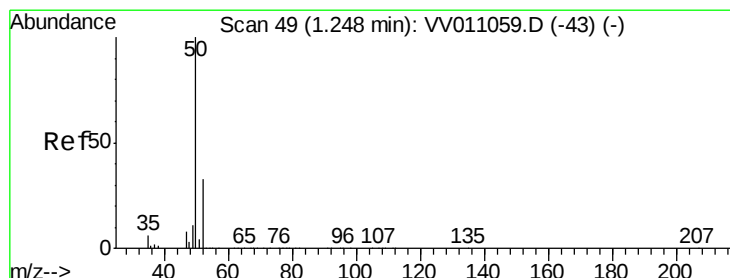
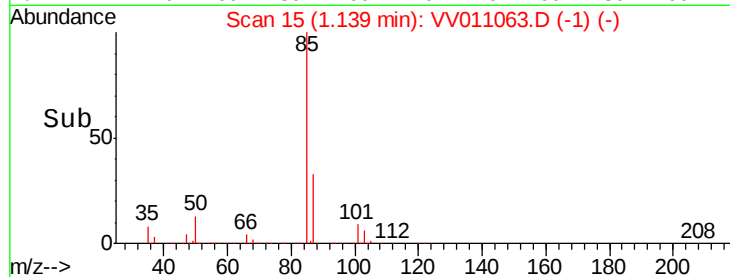
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 29.178 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV011063.D

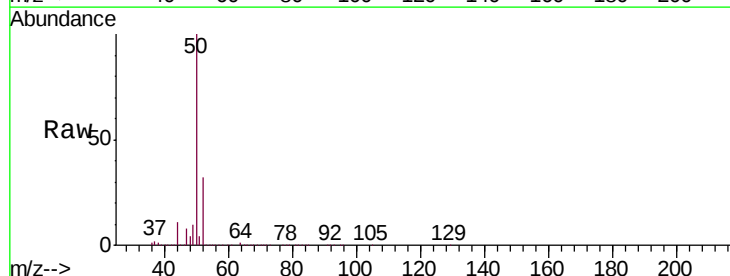
Acq: 28 May 2019 13:36

Tgt Ion: 50 Resp: 220471

Ion Ratio Lower Upper

50 100

52 32.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV011059.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV011059.D (-43) (-)

1.25

250000

200000

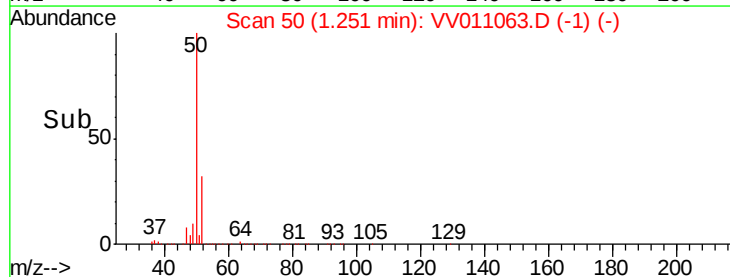
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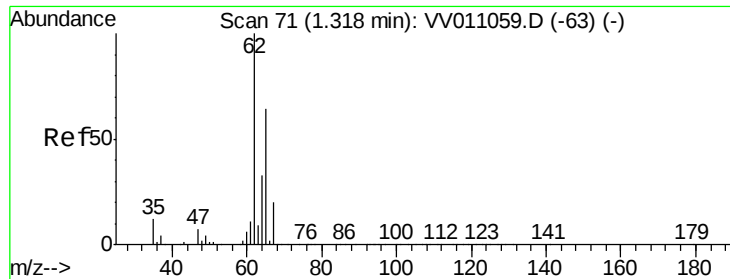
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 28.015 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

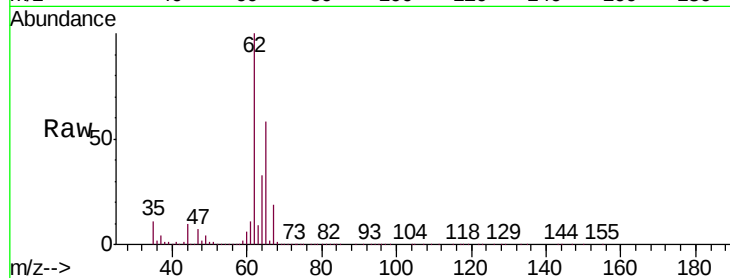
VSTD02574

Tgt Ion: 62 Resp: 195363

Ion Ratio Lower Upper

62 100

64 32.9 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VV011059.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV011059.D (-63) (-)

1.32

200000

150000

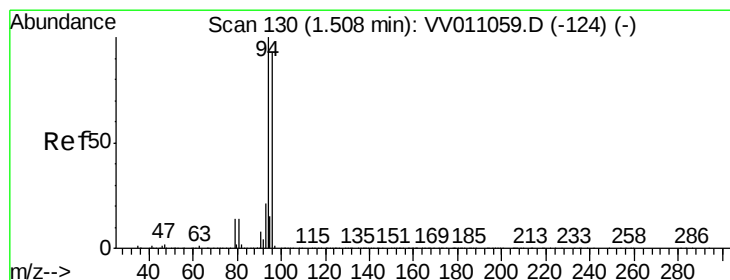
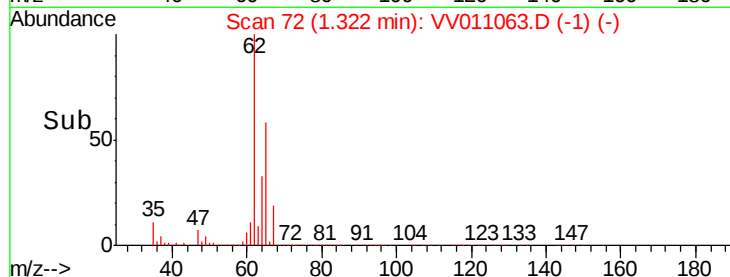
100000

50000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 31.454 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.01 min

Lab File: VV011063.D

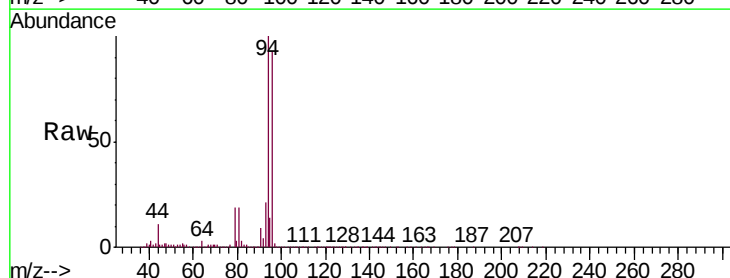
Acq: 28 May 2019 13:36

Tgt Ion: 94 Resp: 94531

Ion Ratio Lower Upper

94 100

96 93.8 9.5 179.7



Abundance Ion 94.00 (93.70 to 94.70): VV011059.D (-124) (-)

Ion 96.00 (95.70 to 96.70): VV011059.D (-124) (-)

1.51

100000

80000

60000

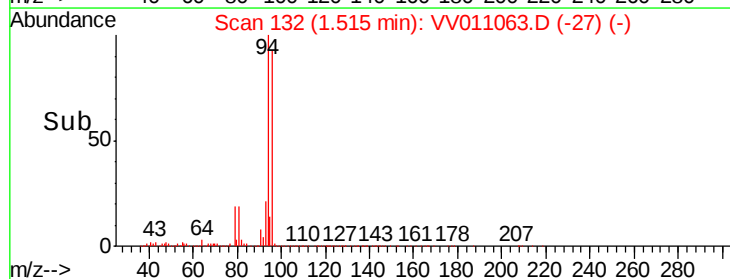
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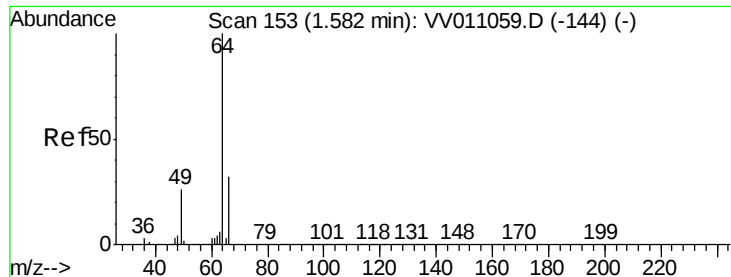
20000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 28.192 ug/L

RT: 1.59 min Scan# 154

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

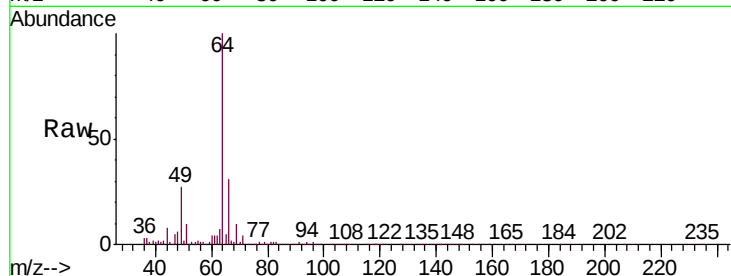
VSTD02574

Tgt Ion: 64 Resp: 106648

Ion Ratio Lower Upper

64 100

66 30.9 21.7 40.3



Abundance Ion 64.00 (63.70 to 64.70): VV011059.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV011059.D (-144) (-)

1.59

100000

80000

60000

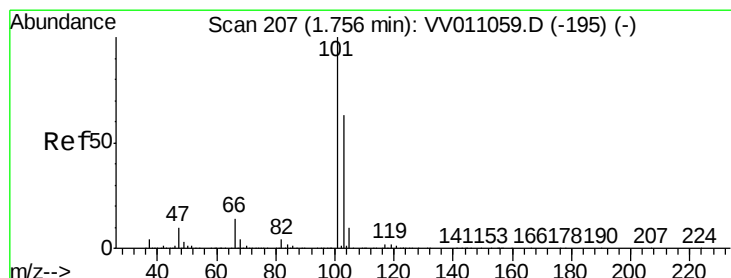
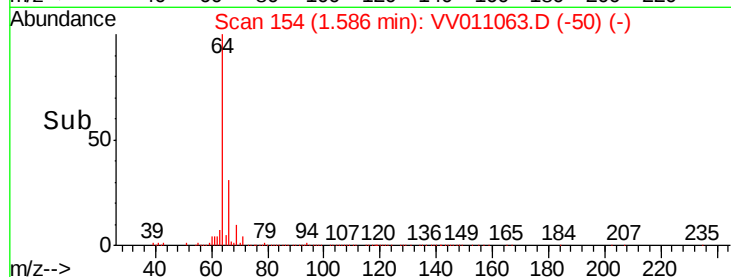
40000

20000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 27.774 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.01 min

Lab File: VV011063.D

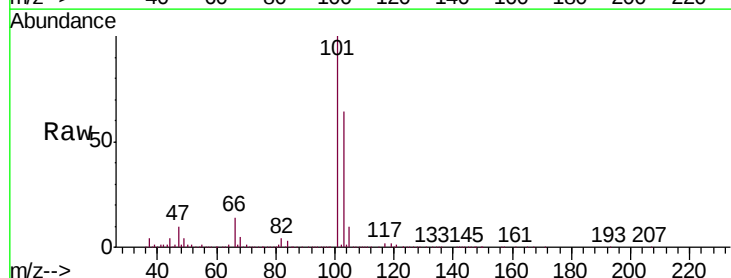
Acq: 28 May 2019 13:36

Tgt Ion: 101 Resp: 259425

Ion Ratio Lower Upper

101 100

103 63.6 44.4 82.4



Abundance Ion 101.00 (100.70 to 101.70): VV011059.D (-195) (-)

Ion 103.00 (102.70 to 103.70): VV011059.D (-195) (-)

1.76

200000

150000

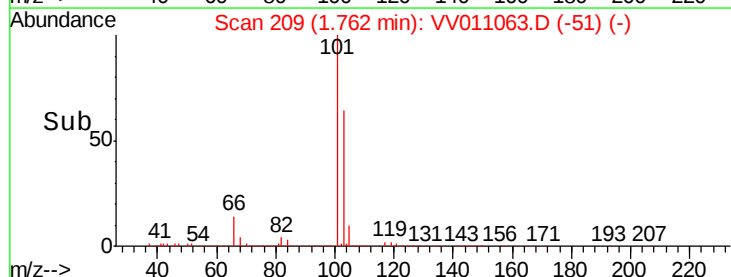
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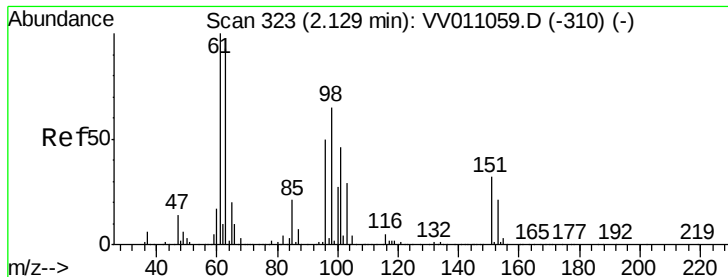
50000

0

1.70 1.75 1.80

Time-->





#11

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

Concen: 26.579 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

VSTD02574

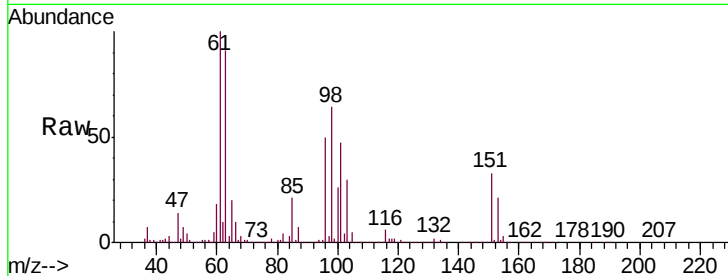
Tgt Ion: 101 Resp: 133224

Ion Ratio Lower Upper

101 100

85 45.0 36.1 54.1

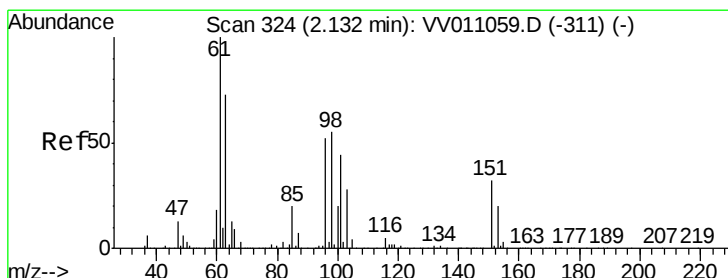
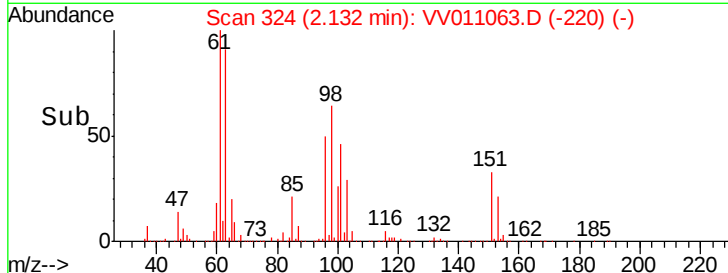
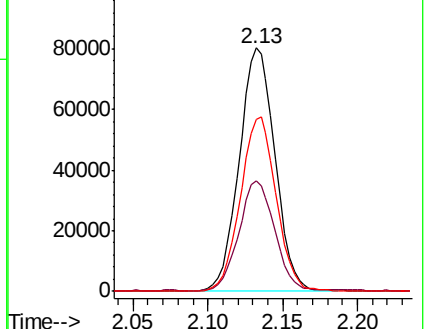
151 72.0 56.6 85.0



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: 26.433 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

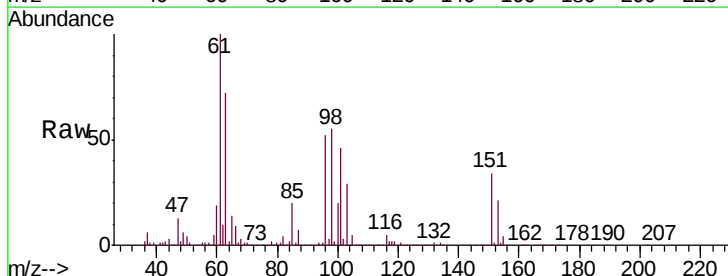
Tgt Ion: 96 Resp: 124668

Ion Ratio Lower Upper

96 100

61 191.1 134.1 249.1

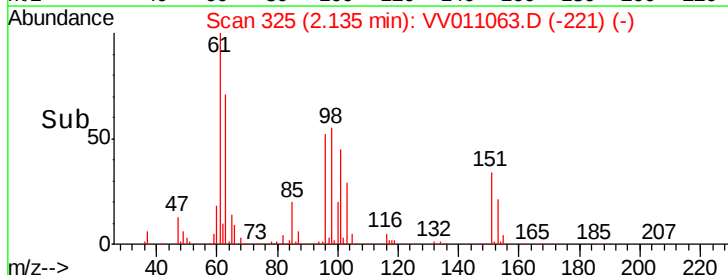
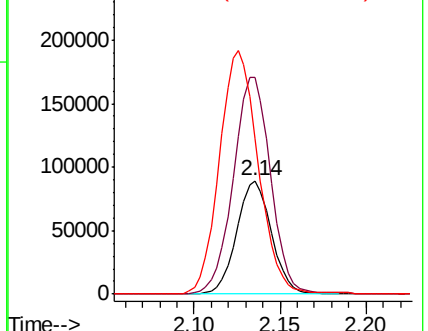
63 137.0 98.1 182.3

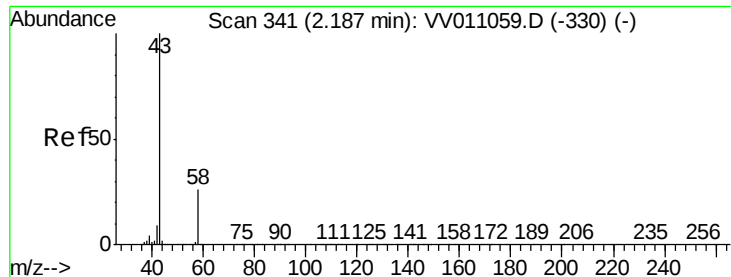


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 57.554 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

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ClientSampleId :

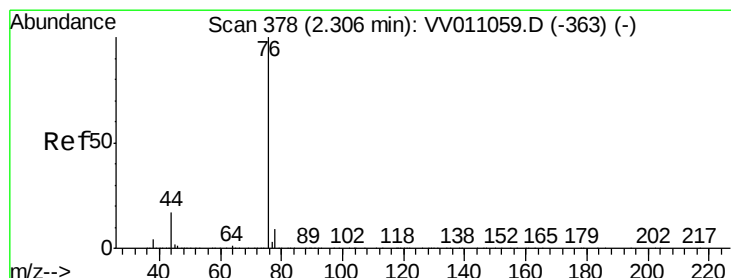
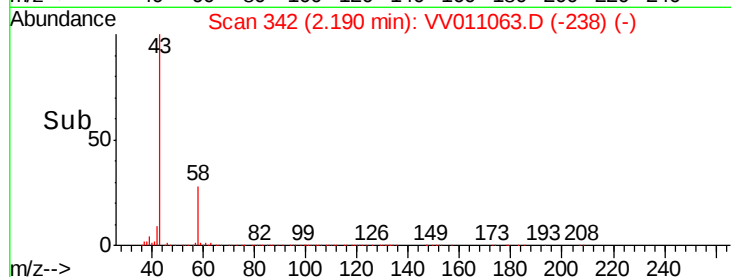
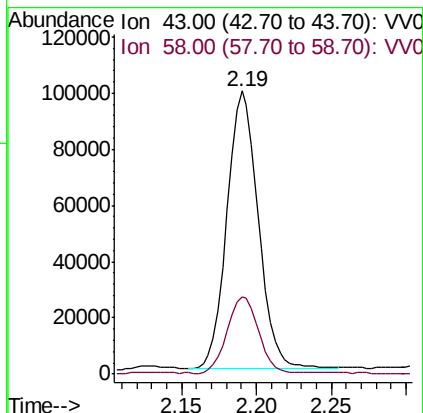
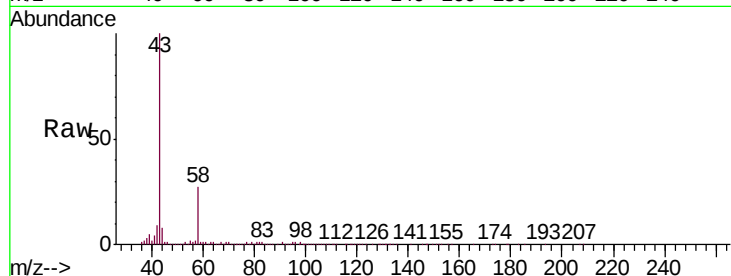
VSTD02574

Tgt Ion: 43 Resp: 144735

Ion Ratio Lower Upper

43 100

58 27.7 0.0 54.8



#14

Carbon disulfide

Concen: 27.024 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV011063.D

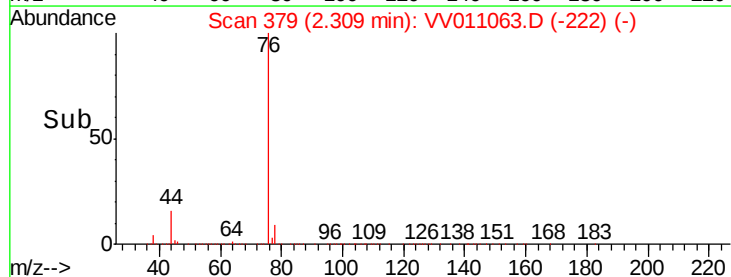
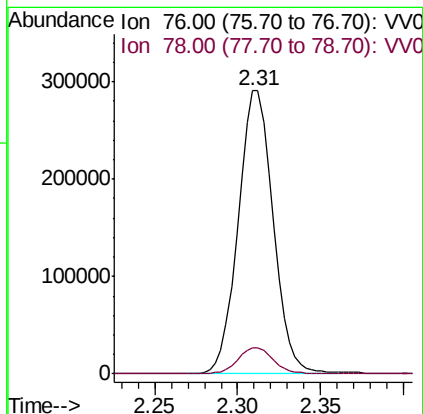
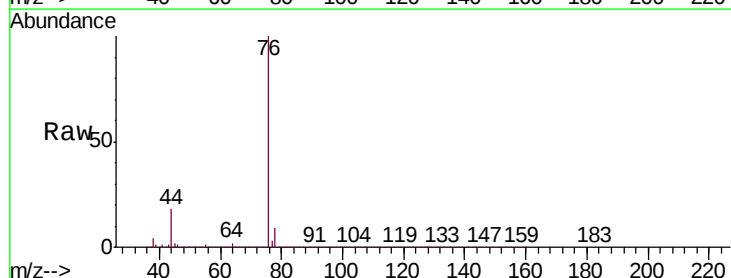
Acq: 28 May 2019 13:36

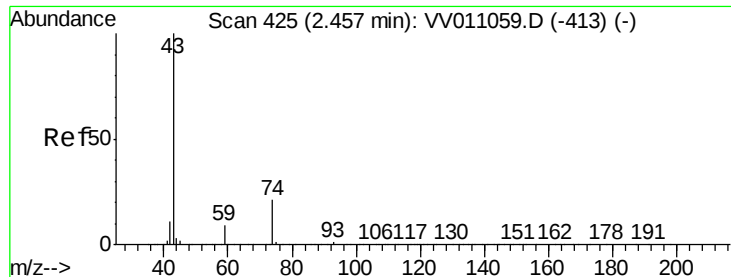
Tgt Ion: 76 Resp: 426360

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

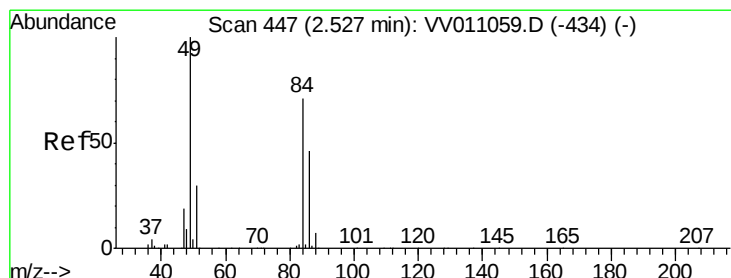
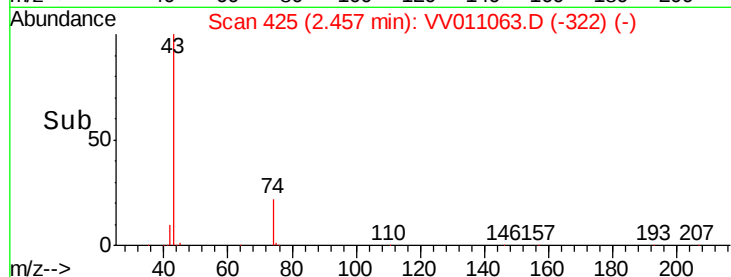
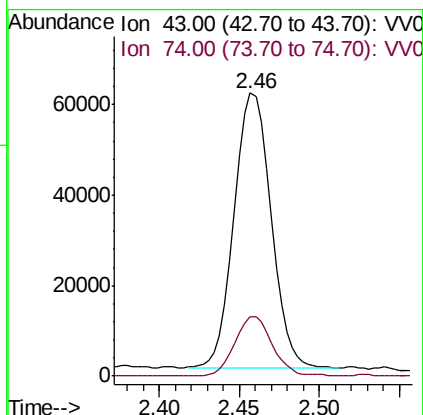
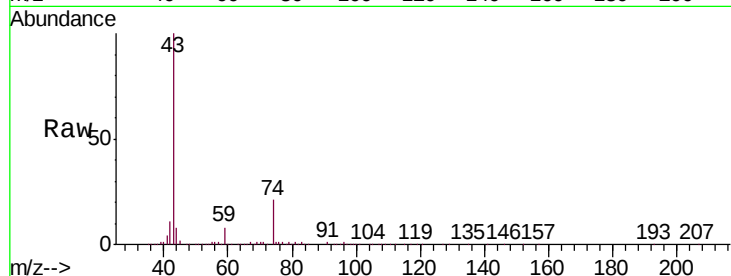




#15
Methyl Acetate
Concen: 26.290 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

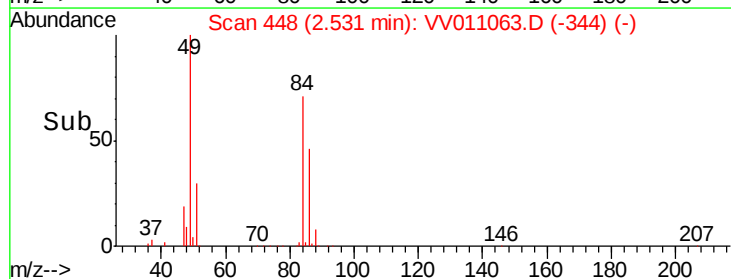
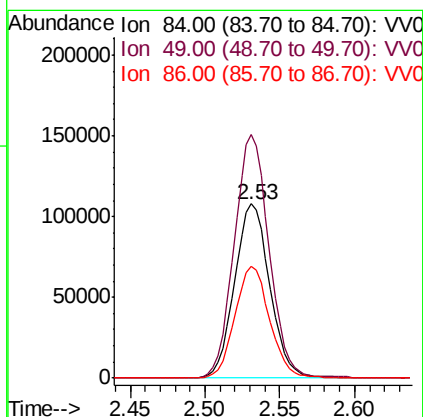
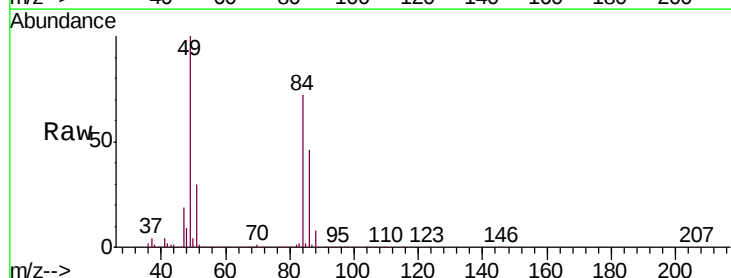
Instrument :
MSVOA_V
ClientSampleId :
VSTD02574

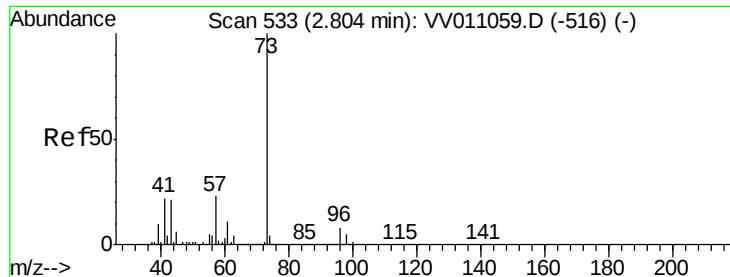
Tgt Ion: 43 Resp: 95428
Ion Ratio Lower Upper
43 100
74 22.0 0.0 0.0#



#16
Methylene chloride
Concen: 25.616 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Tgt Ion: 84 Resp: 175931
Ion Ratio Lower Upper
84 100
49 139.8 98.0 182.0
86 64.2 45.4 84.4





#17

Methyl tert-butyl Ether

Concen: 25.492 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

VSTD02574

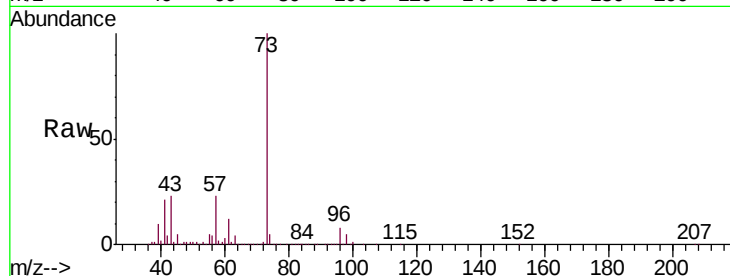
Tgt Ion: 73 Resp: 450362

Ion Ratio Lower Upper

73 100

43 22.0 17.2 25.8

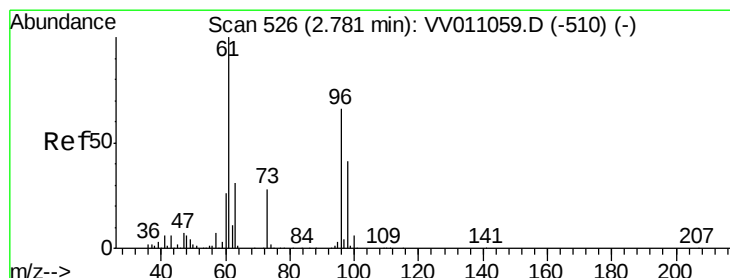
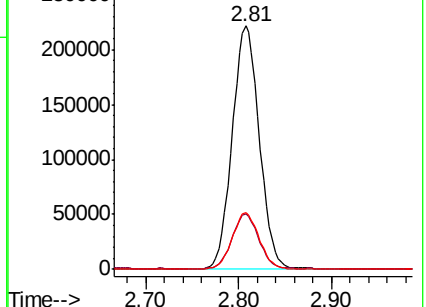
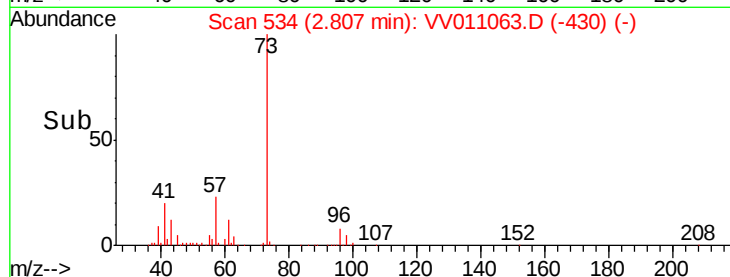
57 22.9 18.5 27.7



Abundance Ion 73.00 (72.70 to 73.70): VV011059.D (-516) (-)

Ion 43.00 (42.70 to 43.70): VV011059.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VV011059.D (-516) (-)



#18

trans-1,2-Dichloroethene

Concen: 26.448 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

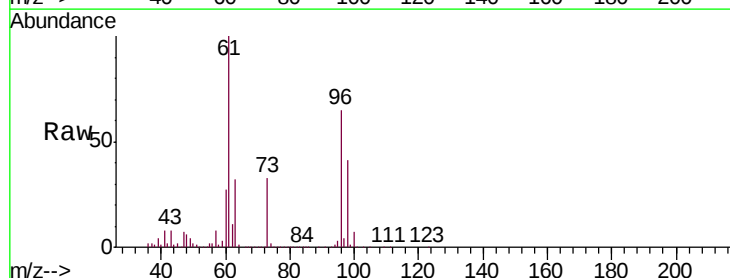
Tgt Ion: 96 Resp: 170632

Ion Ratio Lower Upper

96 100

61 153.3 106.5 197.9

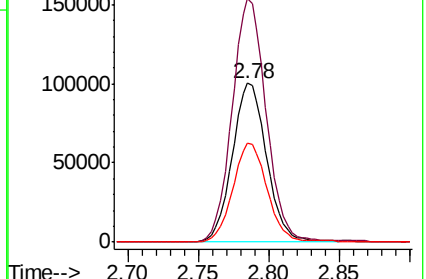
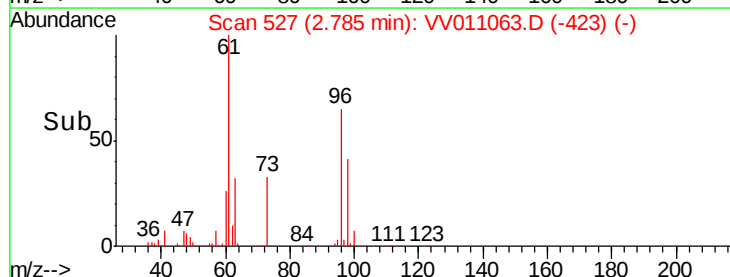
98 62.7 44.0 81.8

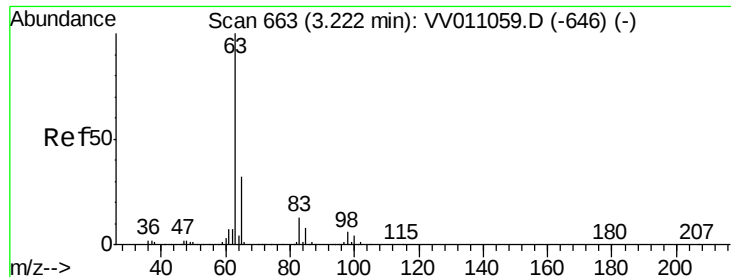


Abundance Ion 96.00 (95.70 to 96.70): VV011059.D (-510) (-)

Ion 61.00 (60.70 to 61.70): VV011059.D (-510) (-)

Ion 98.00 (97.70 to 98.70): VV011059.D (-510) (-)

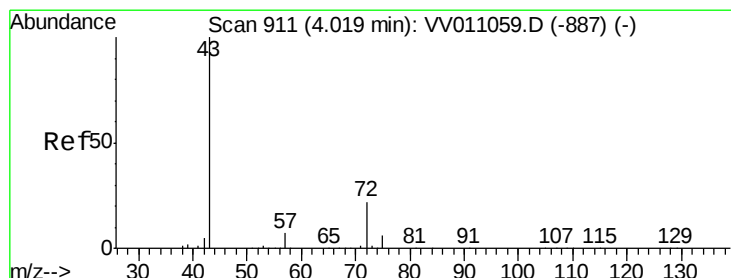
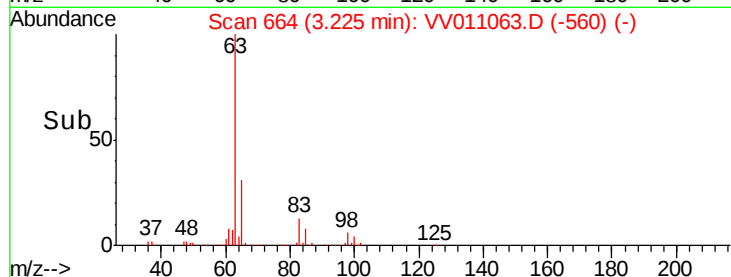
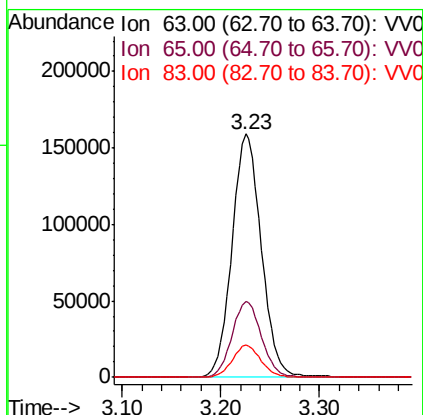
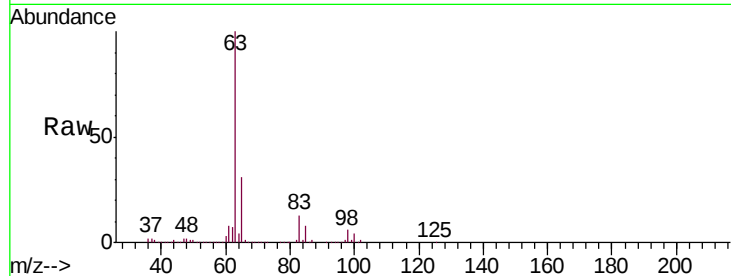




#19
 1,1-Dichloroethane
 Concen: 26.186 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

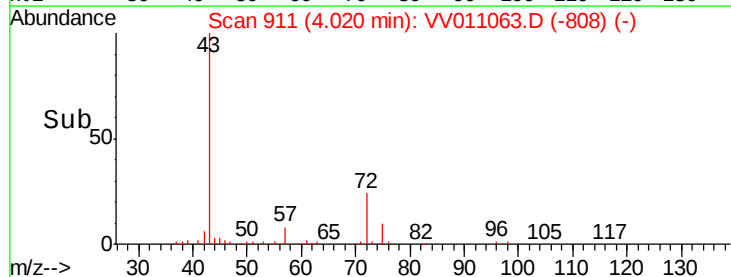
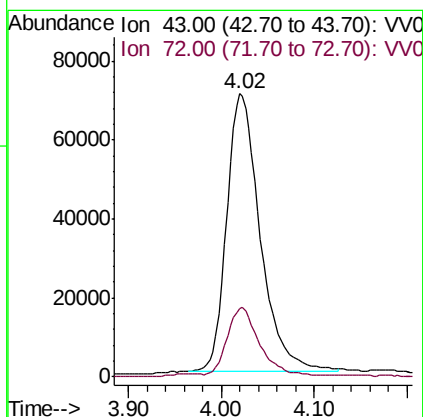
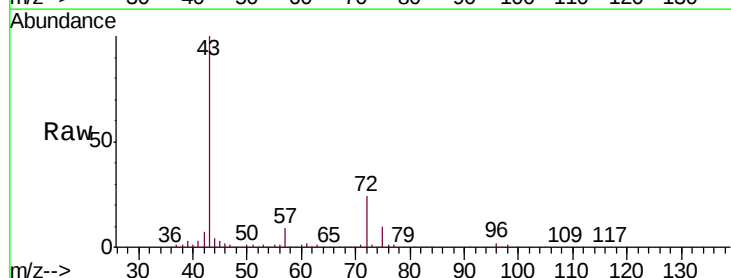
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02574

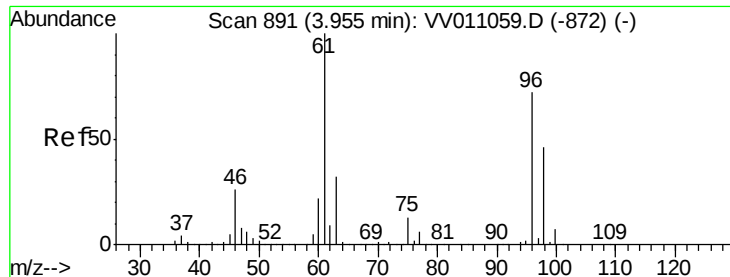
Tgt Ion: 63 Resp: 328439
 Ion Ratio Lower Upper
 63 100
 65 31.2 22.4 41.6
 83 13.1 9.2 17.2



#21
 2-Butanone
 Concen: 56.810 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Tgt Ion: 43 Resp: 175938
 Ion Ratio Lower Upper
 43 100
 72 22.4 10.7 31.9



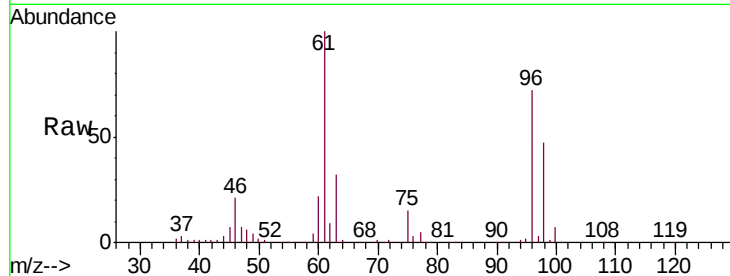


#22

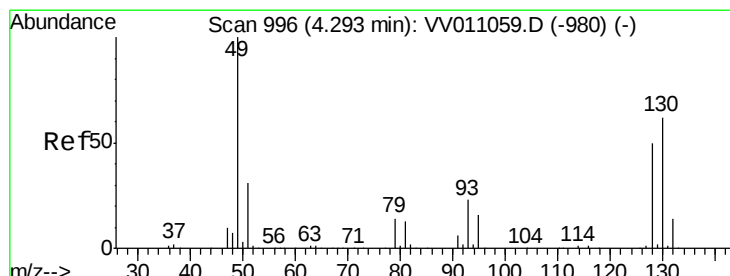
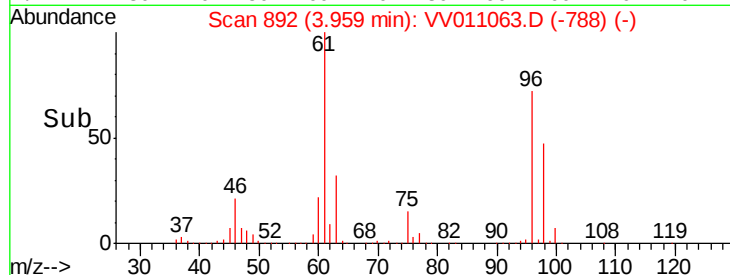
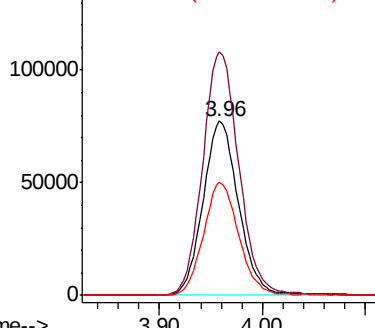
cis-1,2-Dichloroethene
Concen: 25.471 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Instrument :
MSVOA_V
ClientSampleId :
VSTD02574

Tgt Ion: 96 Resp: 185089
Ion Ratio Lower Upper
96 100
61 139.7 97.4 180.8
98 65.0 44.4 82.5



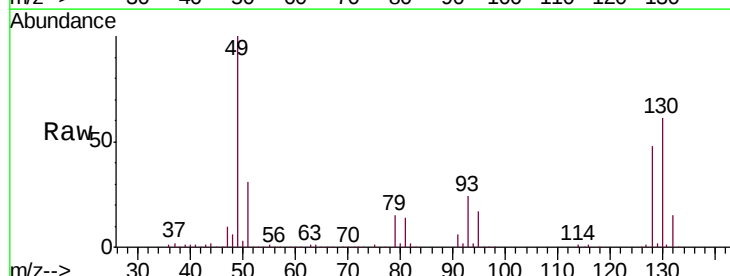
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



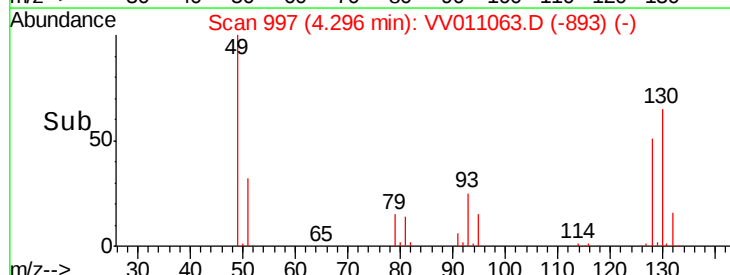
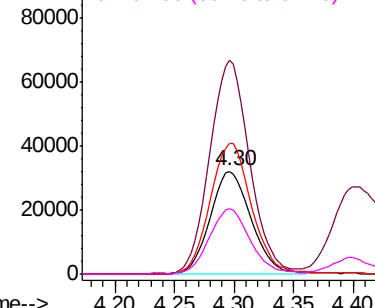
#23

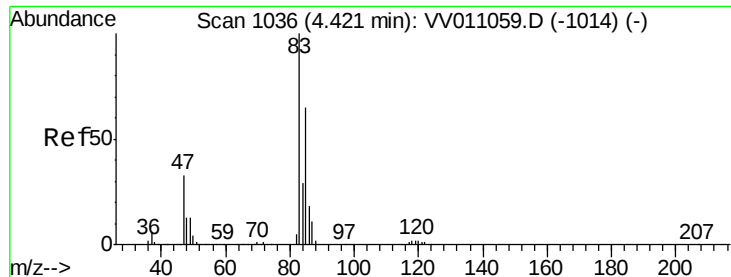
Bromochloromethane
Concen: 24.773 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Tgt Ion: 128 Resp: 76254
Ion Ratio Lower Upper
128 100
49 207.9 140.6 261.0
130 127.4 87.2 162.0
51 63.8 49.4 74.0



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





#25

Chloroform

Concen: 25.797 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

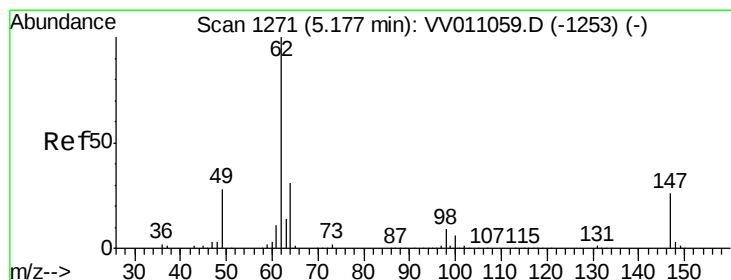
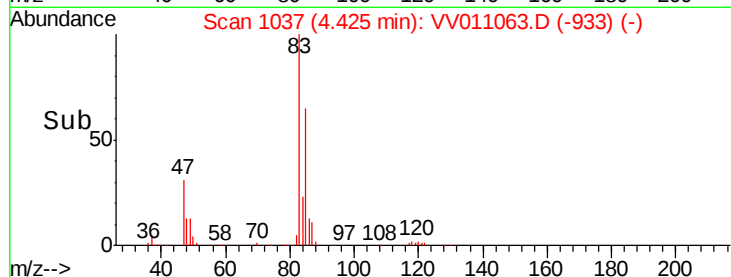
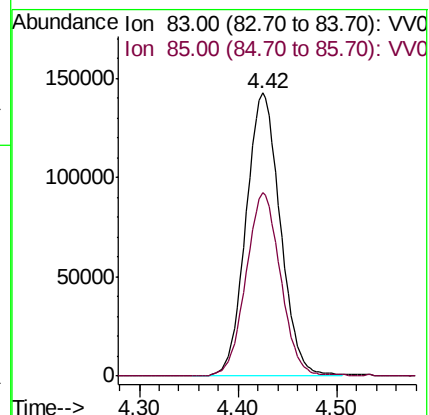
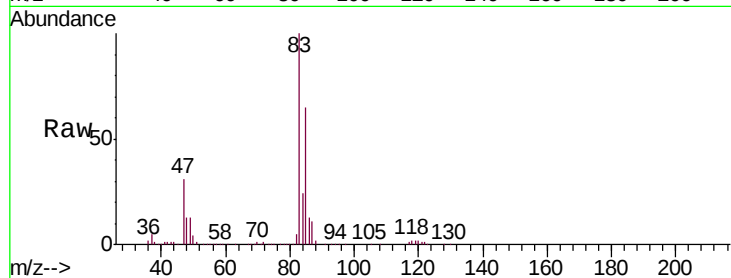
VSTD02574

Tgt Ion: 83 Resp: 341683

Ion Ratio Lower Upper

83 100

85 65.7 46.2 85.8



#27

1,2-Dichloroethane

Concen: 26.196 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV011063.D

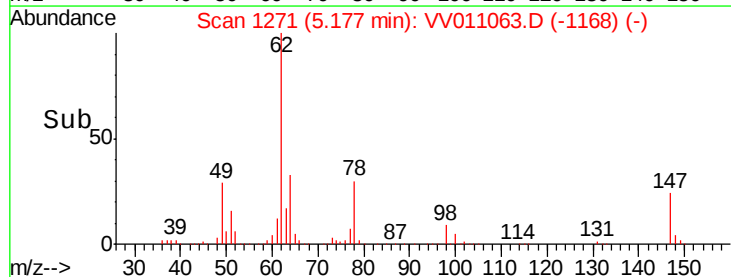
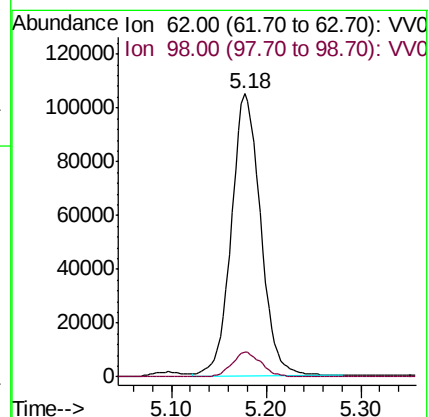
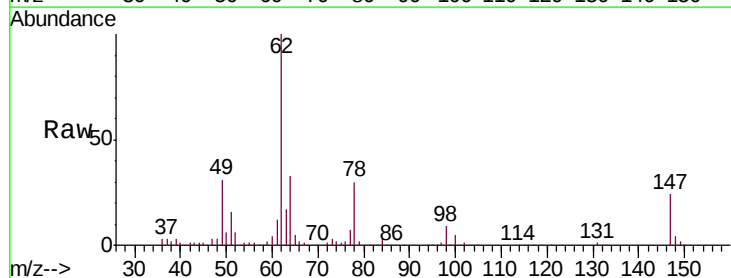
Acq: 28 May 2019 13:36

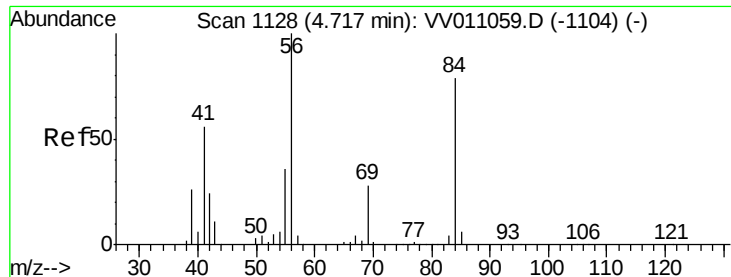
Tgt Ion: 62 Resp: 226058

Ion Ratio Lower Upper

62 100

98 8.8 7.4 11.0

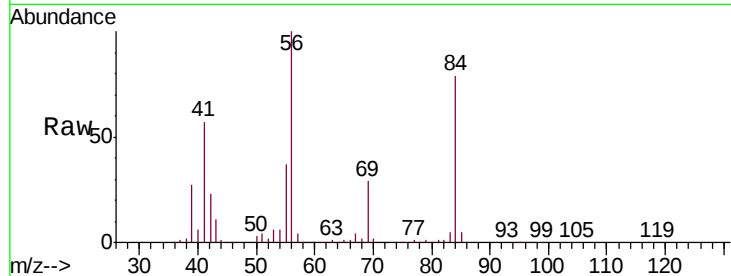




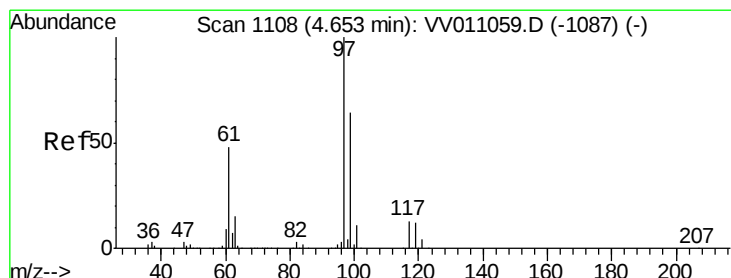
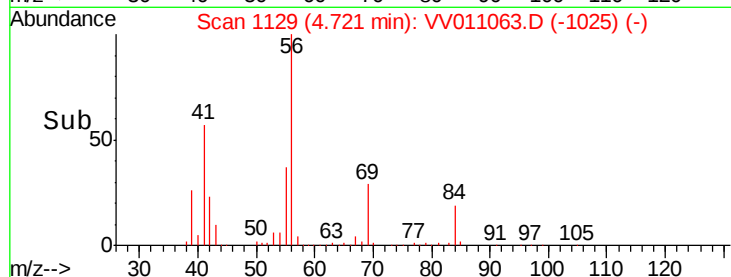
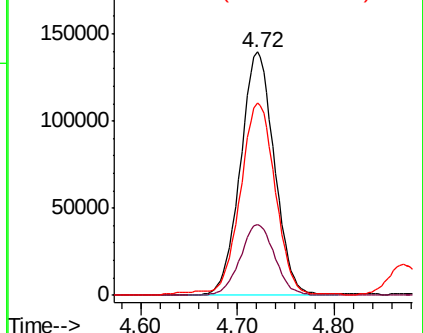
#30
Cyclohexane
Concen: 25.947 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Instrument :
MSVOA_V
ClientSampleId :
VSTD02574

Tgt Ion: 56 Resp: 339059
Ion Ratio Lower Upper
56 100
69 29.1 23.2 34.8
84 80.0 63.2 94.8

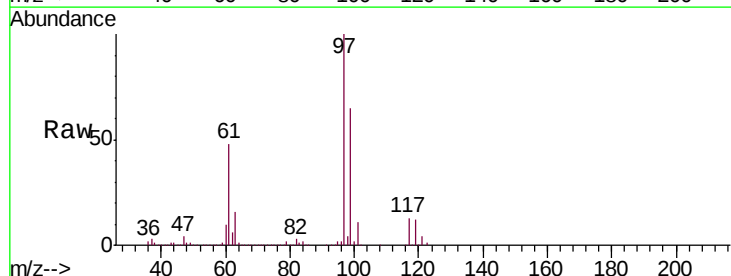


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

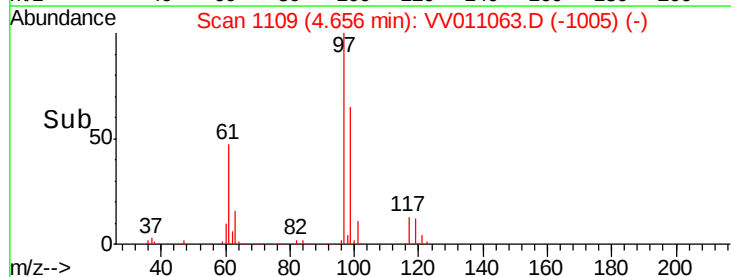
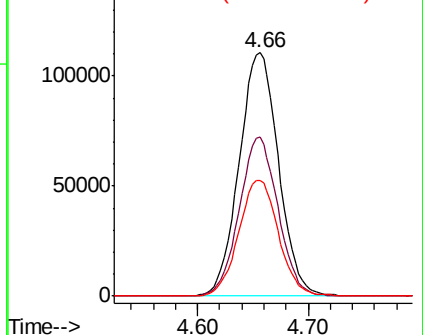


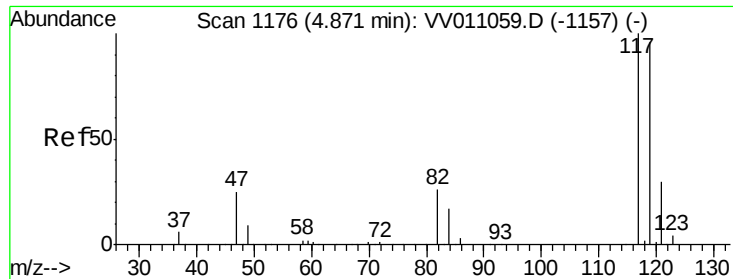
#31
1,1,1-Trichloroethane
Concen: 26.550 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Tgt Ion: 97 Resp: 272718
Ion Ratio Lower Upper
97 100
99 64.3 51.5 77.3
61 48.4 38.2 57.2



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 26.437 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

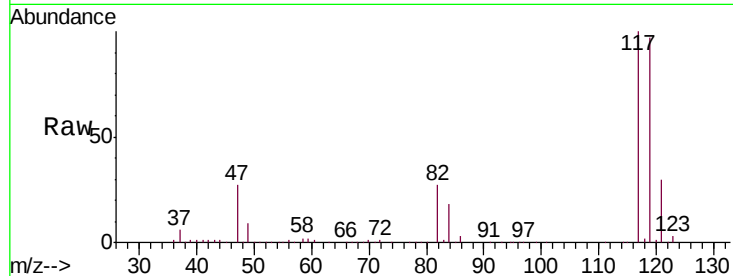
VSTD02574

Tgt Ion:117 Resp: 232577

Ion Ratio Lower Upper

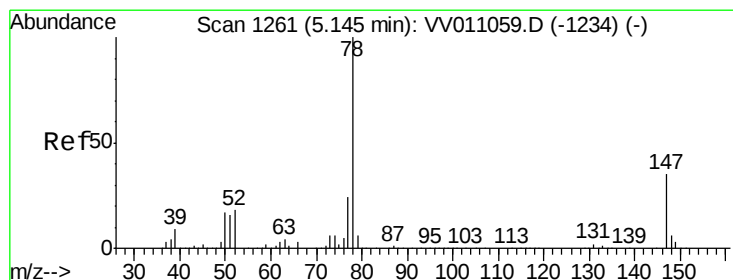
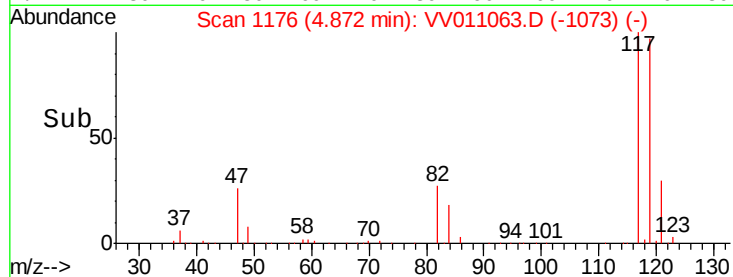
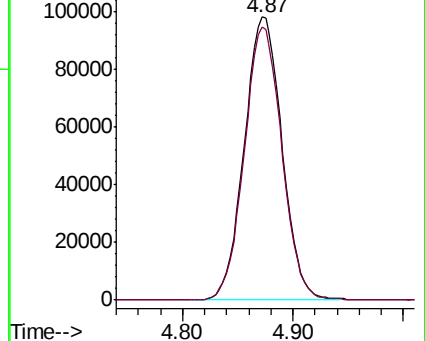
117 100

119 95.8 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.766 ug/L

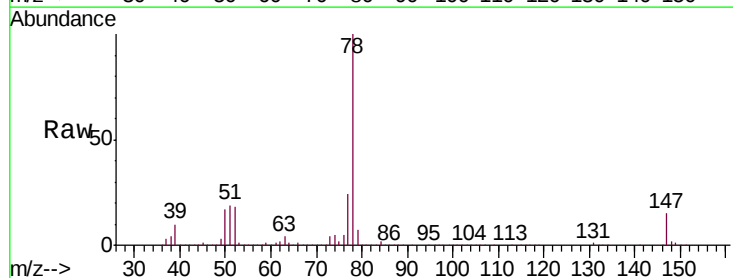
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

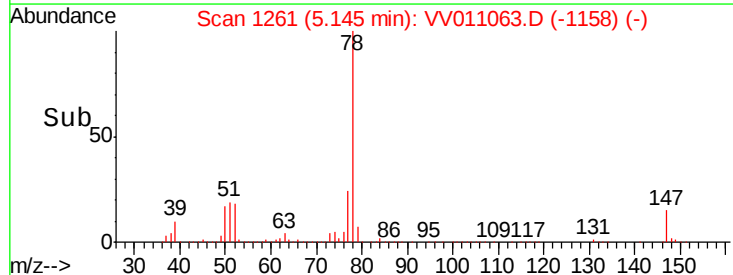
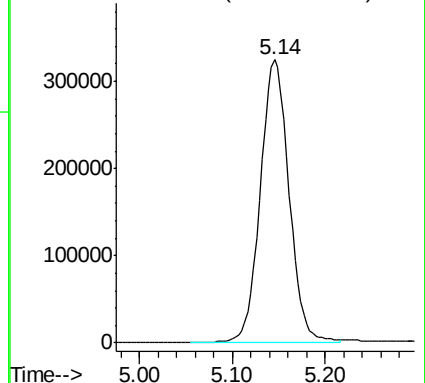
Lab File: VV011063.D

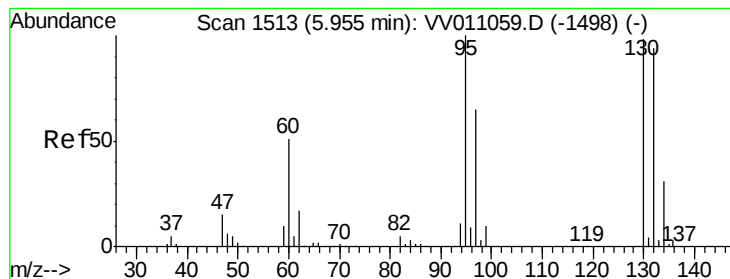
Acq: 28 May 2019 13:36

Tgt Ion: 78 Resp: 702895



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 25.769 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

VSTD02574

Tgt Ion: 95 Resp: 183600

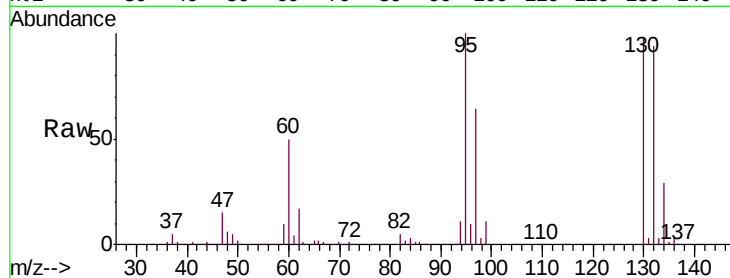
Ion Ratio Lower Upper

95 100

97 64.5 45.4 84.4

132 93.7 66.1 122.8

130 96.1 68.9 127.9

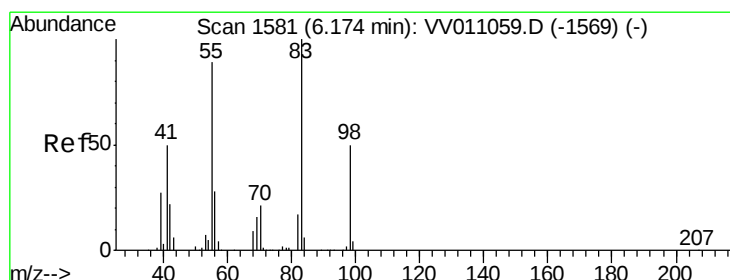
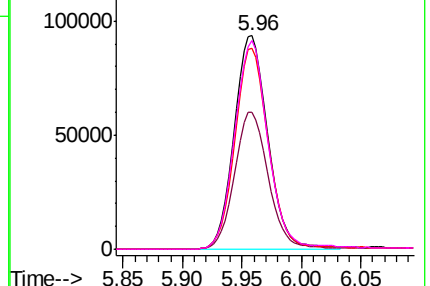
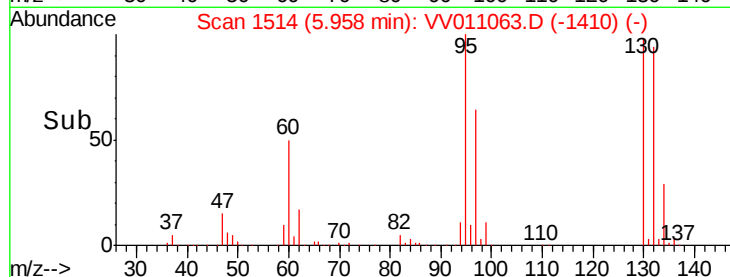


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 25.744 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

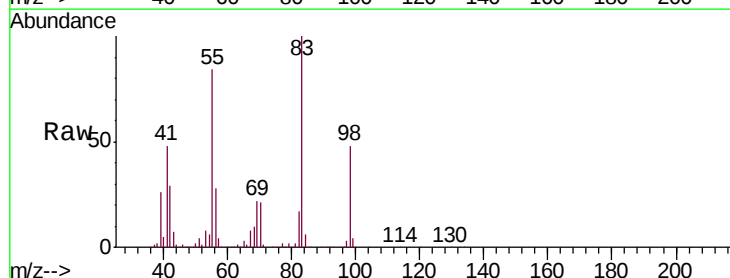
Tgt Ion: 83 Resp: 316494

Ion Ratio Lower Upper

83 100

55 86.1 69.9 104.9

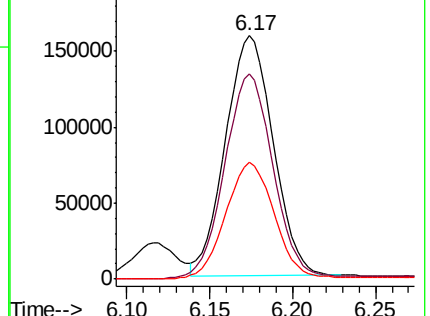
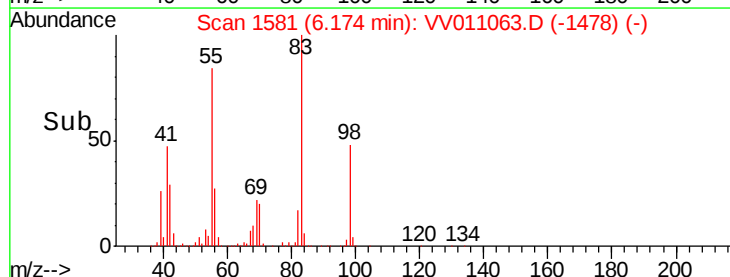
98 48.8 40.0 60.0

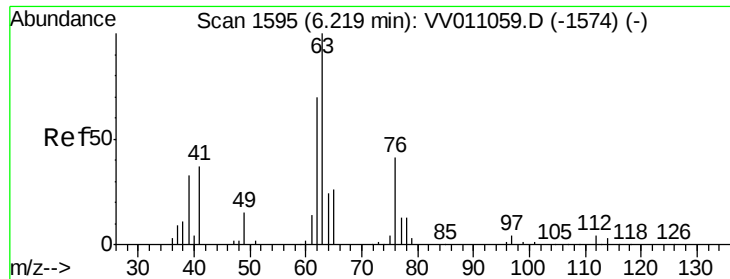


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

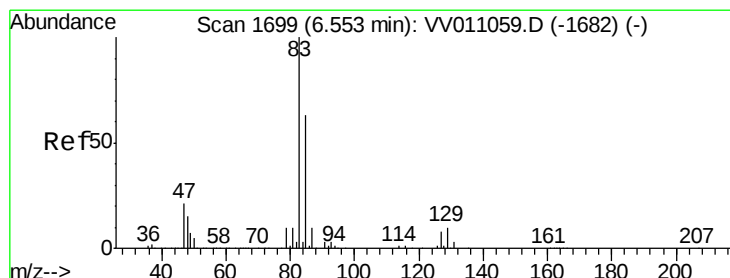
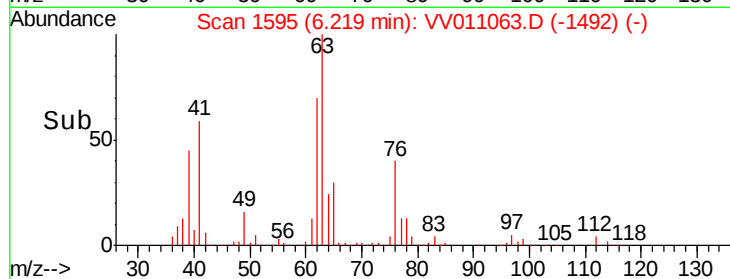
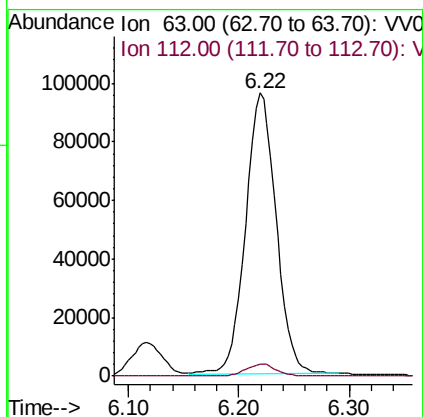
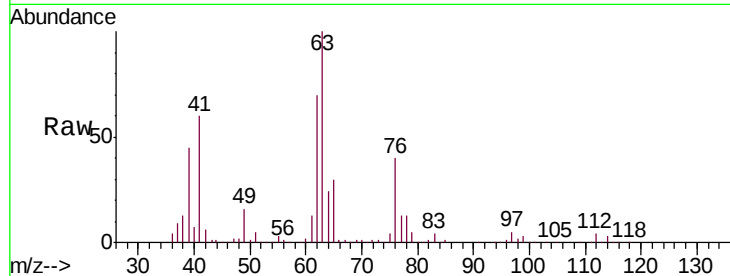




#40
 1,2-Dichloropropane
 Concen: 25.332 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

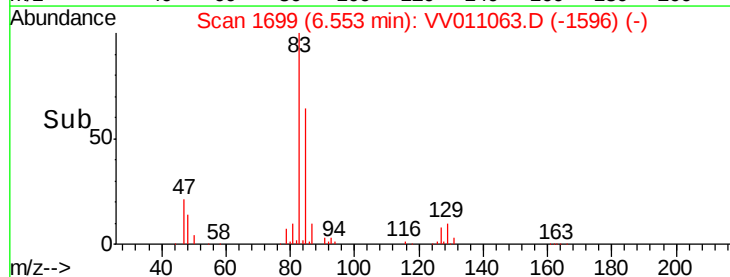
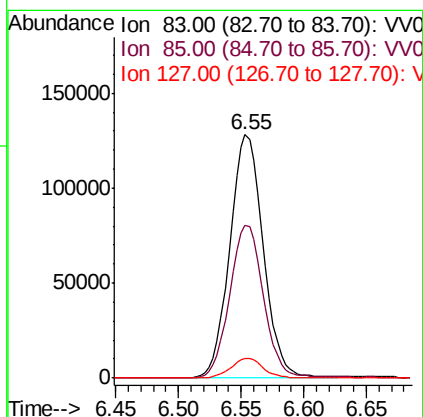
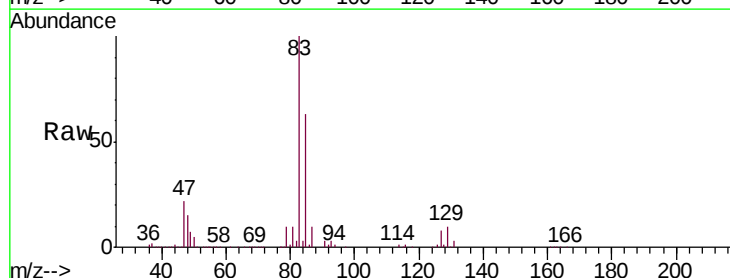
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02574

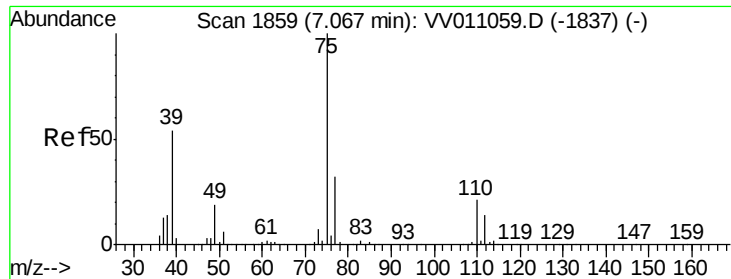
Tgt Ion: 63 Resp: 184168
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#41
 Bromodichloromethane
 Concen: 25.641 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Tgt Ion: 83 Resp: 236332
 Ion Ratio Lower Upper
 83 100
 85 62.9 44.4 82.4
 127 8.0 6.2 9.4



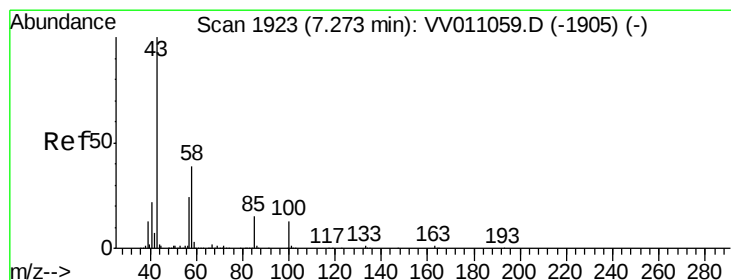
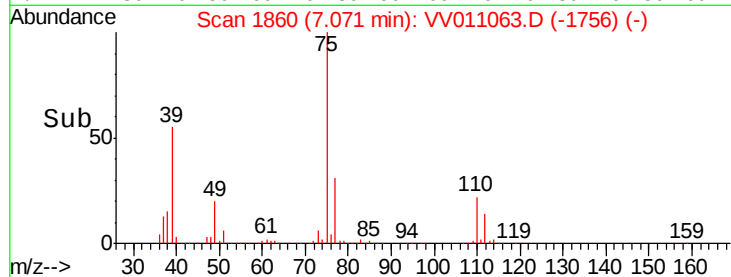
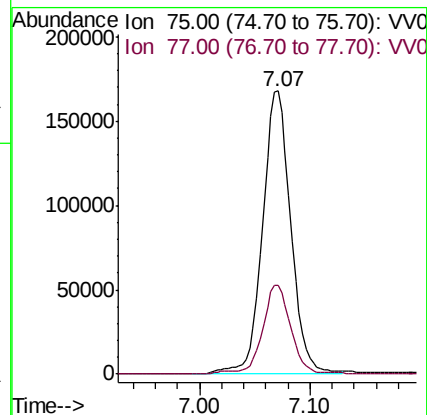
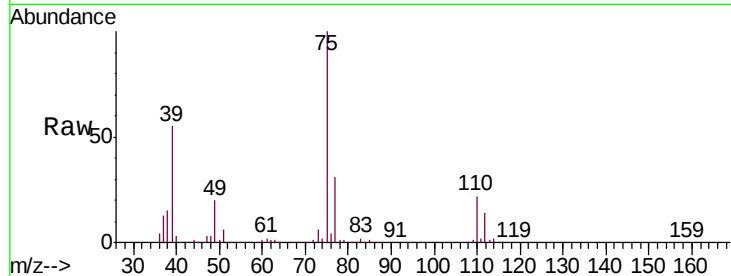


#42

cis-1,3-Dichloropropene
 Concen: 25.821 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02574

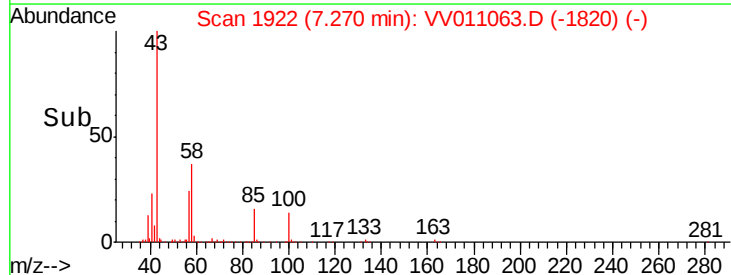
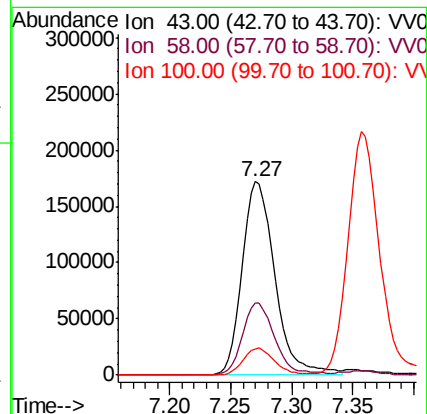
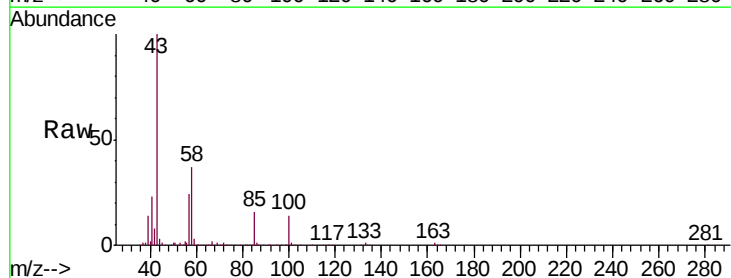
Tgt Ion: 75 Resp: 299926
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.5 41.7

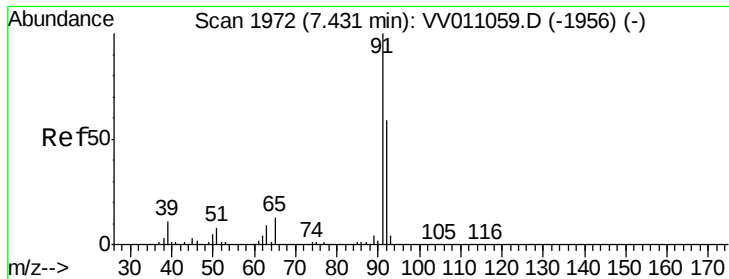


#43

4-Methyl-2-pentanone
 Concen: 49.781 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Tgt Ion: 43 Resp: 317397
 Ion Ratio Lower Upper
 43 100
 58 37.1 30.3 45.5
 100 13.4 10.6 15.8





#44

Toluene

Concen: 26.115 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

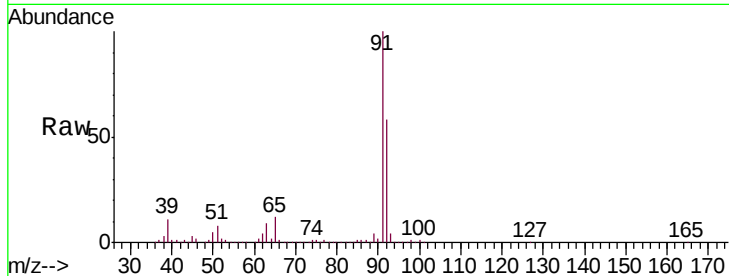
VSTD02574

Tgt Ion: 91 Resp: 774598

Ion Ratio Lower Upper

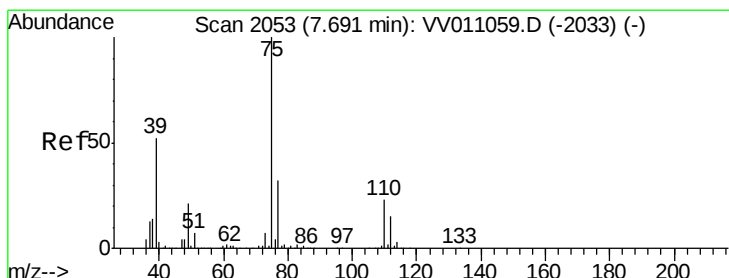
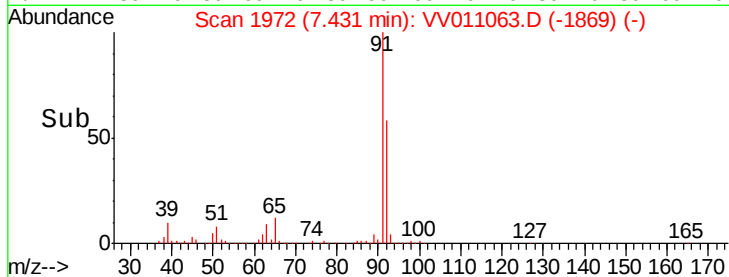
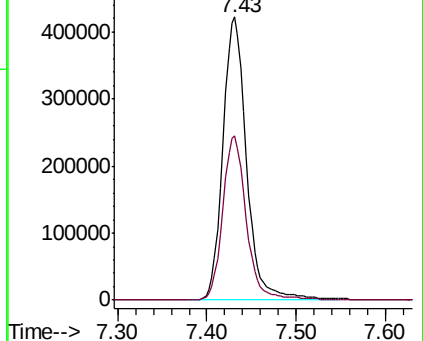
91 100

92 57.9 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV011059.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV011059.D (-1956) (-)



#45

trans-1,3-Dichloropropene

Concen: 25.681 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011063.D

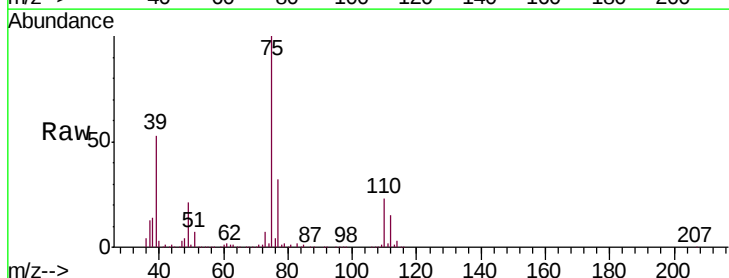
Acq: 28 May 2019 13:36

Tgt Ion: 75 Resp: 254548

Ion Ratio Lower Upper

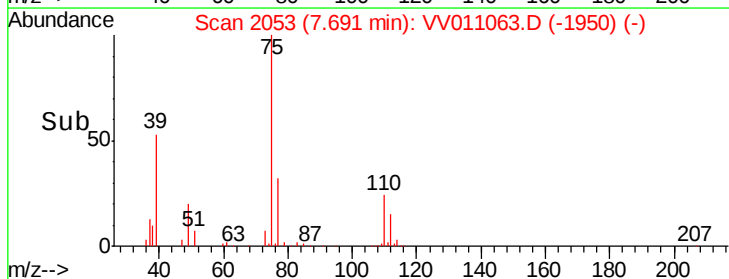
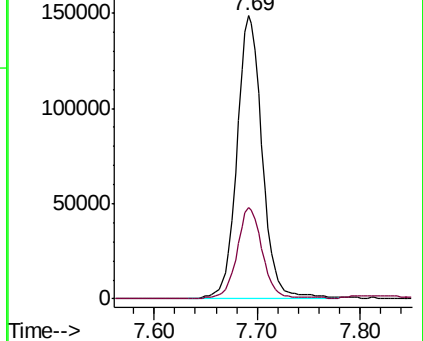
75 100

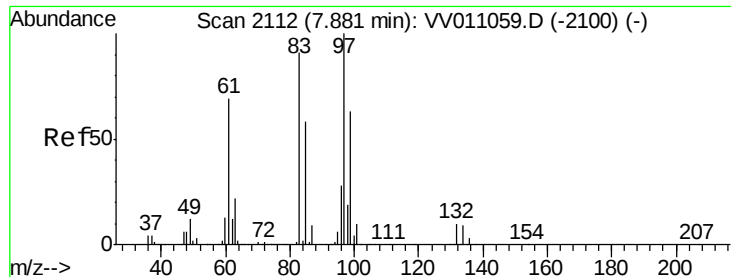
77 32.3 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV011059.D (-2033) (-)

Ion 77.00 (76.70 to 77.70): VV011059.D (-2033) (-)

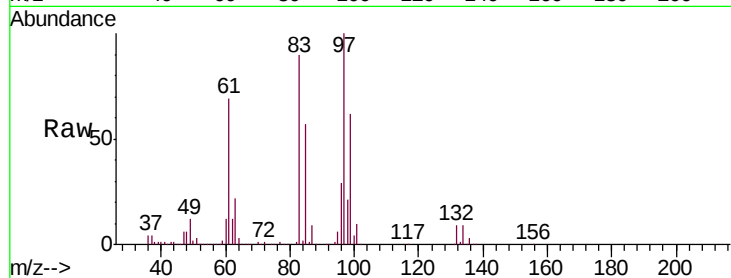




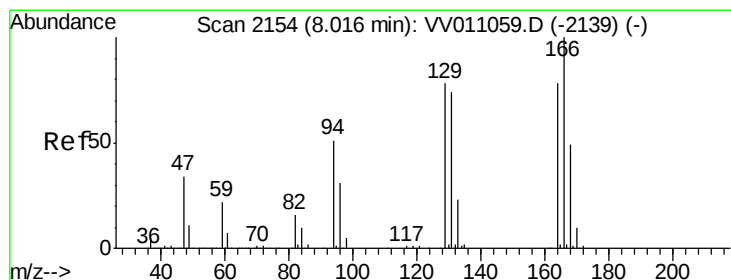
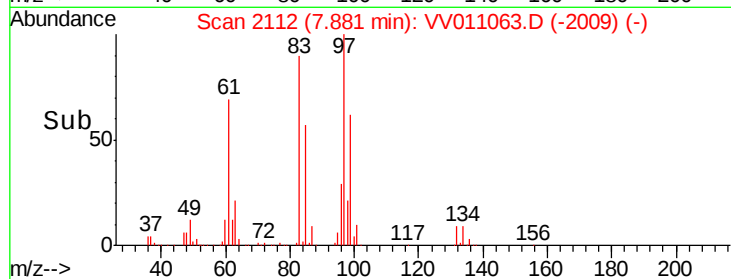
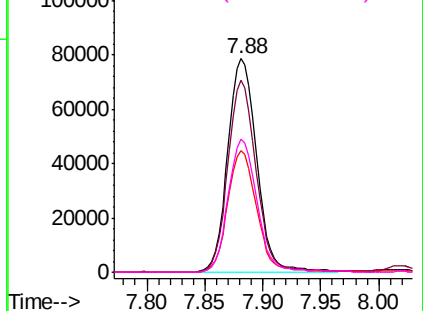
#46
 1,1,2-Trichloroethane
 Concen: 25.397 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02574

Tgt Ion:	97	Resp:	136846
Ion	Ratio	Lower	Upper
97	100		
83	89.9	63.5	117.9
85	57.0	40.3	74.9
99	62.2	44.4	82.5

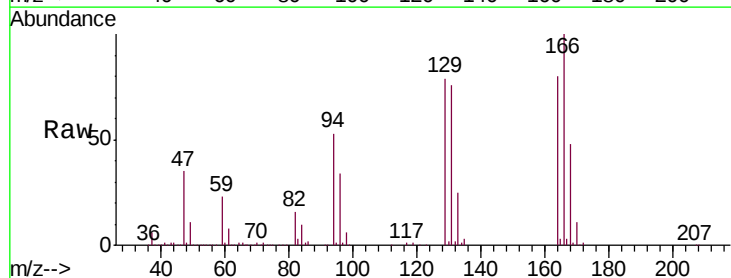


Abundance Ion 97.00 (96.70 to 97.70): VV011059.D (-2100) (-)

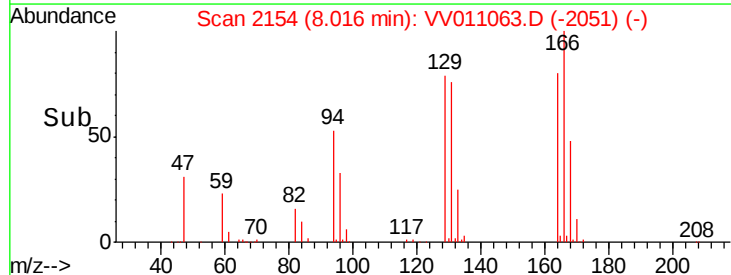
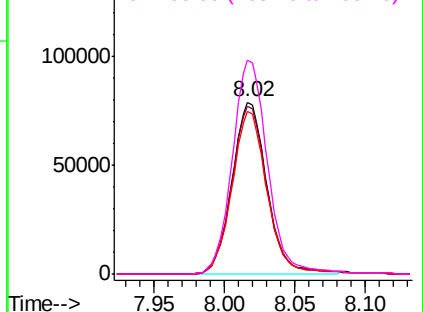


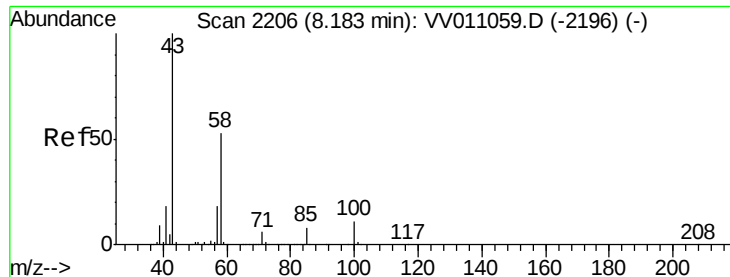
#47
 Tetrachloroethene
 Concen: 26.650 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Tgt Ion:	164	Resp:	136938
Ion	Ratio	Lower	Upper
164	100		
129	98.0	70.7	131.3
131	94.7	66.6	123.8
166	124.5	90.2	167.6



Abundance Ion 164.00 (163.70 to 164.70): VV011059.D (-2139) (-)

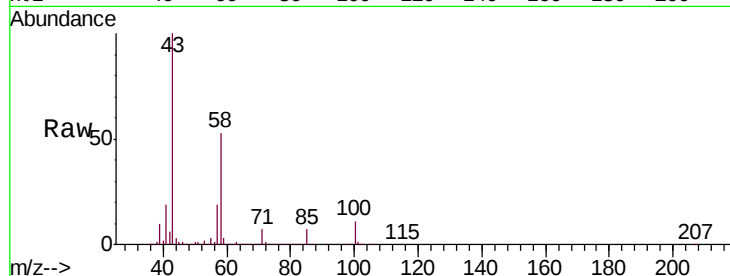




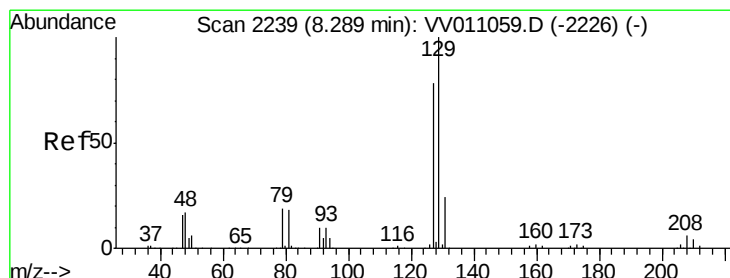
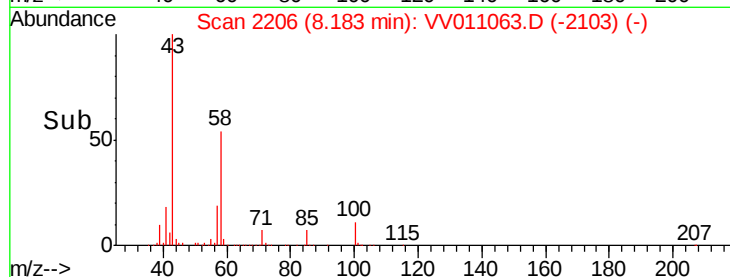
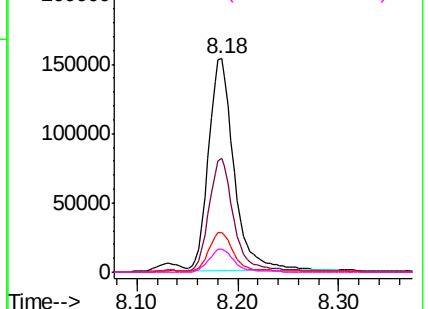
#49
2-Hexanone
Concen: 56.748 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Instrument :
MSVOA_V
ClientSampleId :
VSTD02574

Tgt Ion:	43	Resp:	266835
Ion	Ratio	Lower	Upper
43	100		
58	51.7	43.5	65.3
57	17.0	13.7	20.5
100	11.0	9.1	13.7

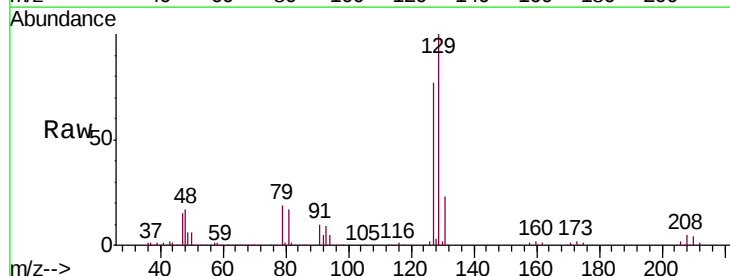


Abundance Ion 43.00 (42.70 to 43.70): VV011059.D (-2196) (-)
Ion 58.00 (57.70 to 58.70): VV011059.D (-2196) (-)
Ion 57.00 (56.70 to 57.70): VV011059.D (-2196) (-)
Ion 100.00 (99.70 to 100.70): VV011059.D (-2196) (-)

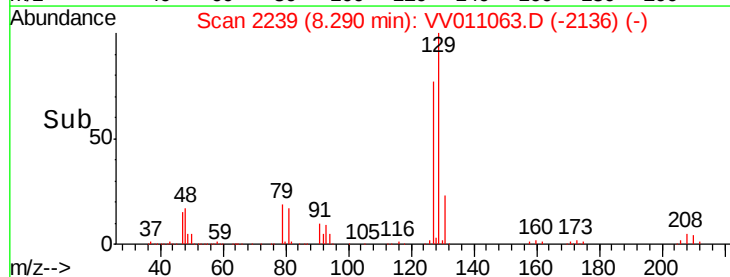
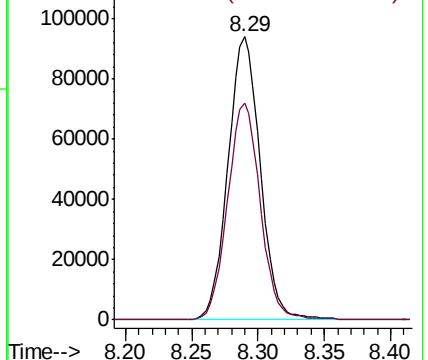


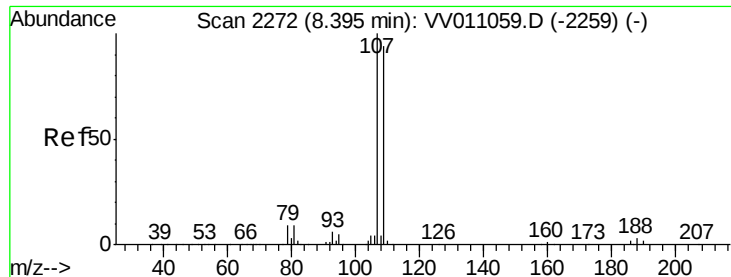
#50
Dibromochloromethane
Concen: 25.516 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Tgt Ion:	129	Resp:	159299
Ion	Ratio	Lower	Upper
129	100		
127	76.5	54.6	101.4



Abundance Ion 129.00 (128.70 to 129.70): VV011059.D (-2226) (-)
Ion 127.00 (126.70 to 127.70): VV011059.D (-2226) (-)

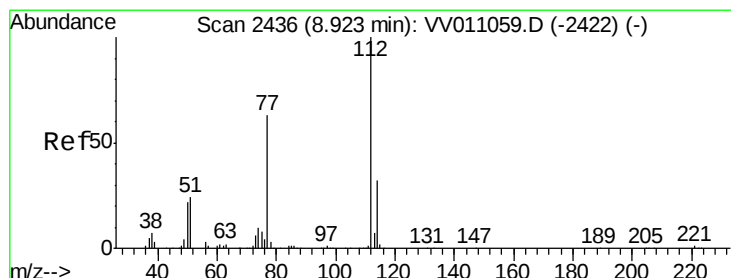
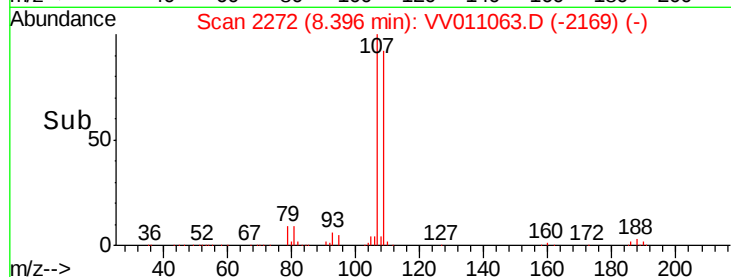
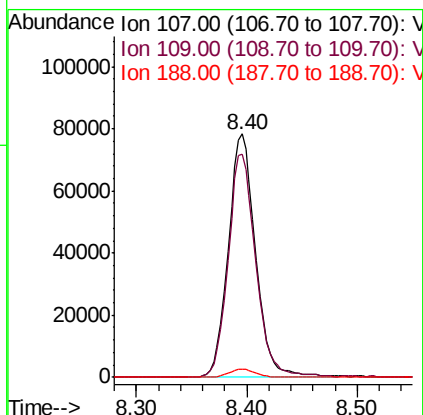
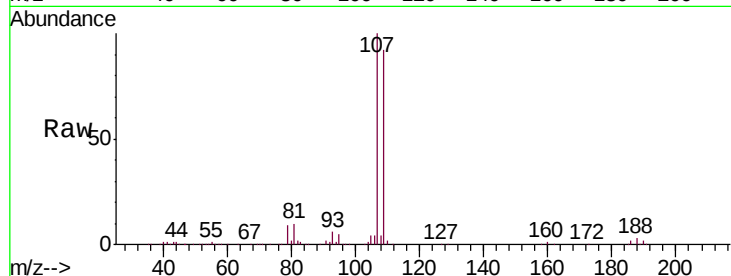




#51
 1,2-Dibromoethane
 Concen: 26.082 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

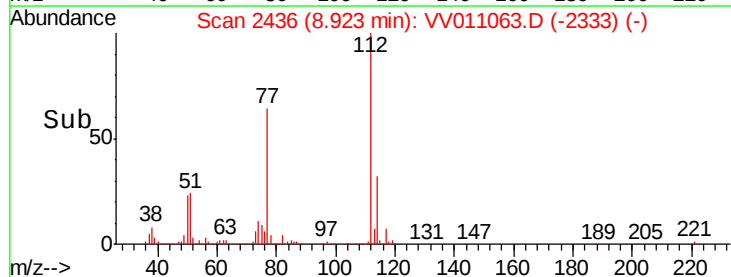
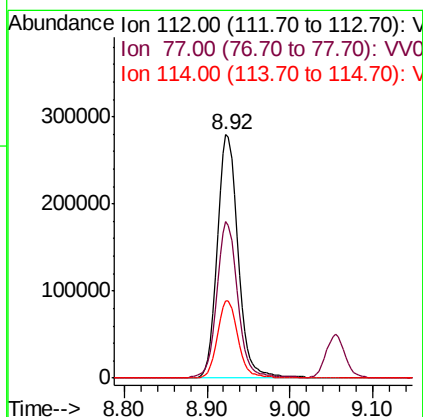
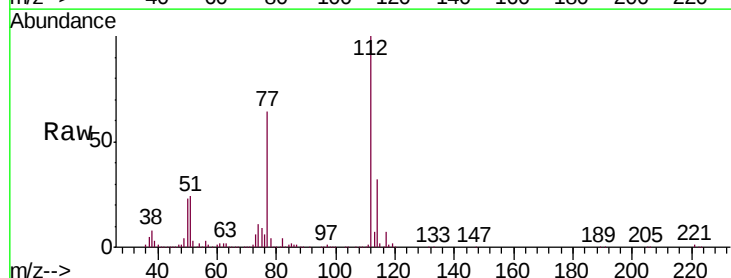
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02574

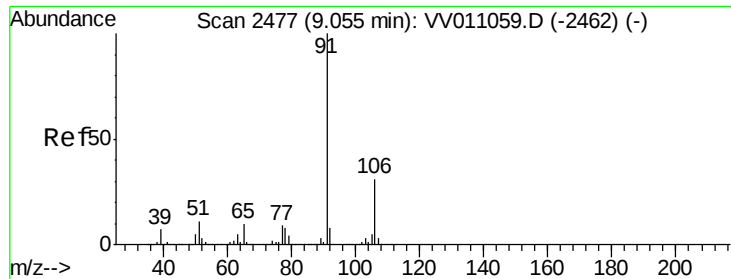
Tgt Ion:107 Resp: 134483
 Ion Ratio Lower Upper
 107 100
 109 91.5 65.7 122.1
 188 3.3 2.6 3.8



#52
 Chlorobenzene
 Concen: 26.228 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Tgt Ion:112 Resp: 482124
 Ion Ratio Lower Upper
 112 100
 77 64.1 50.8 76.2
 114 32.0 22.7 42.1

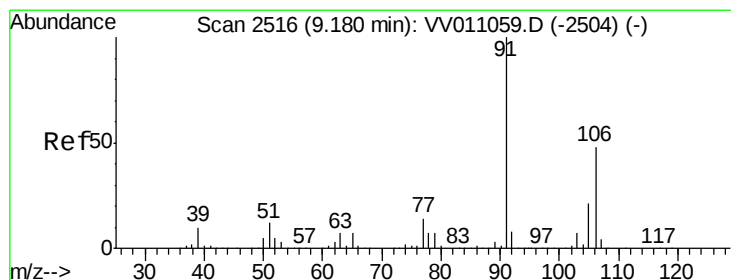
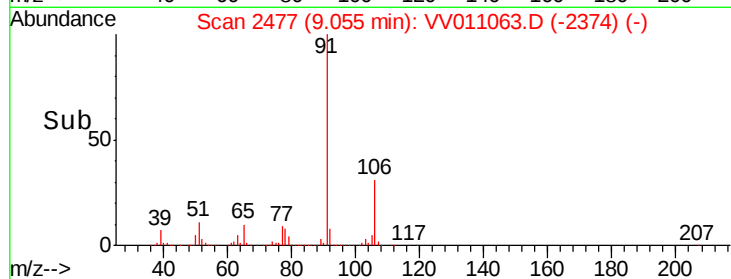
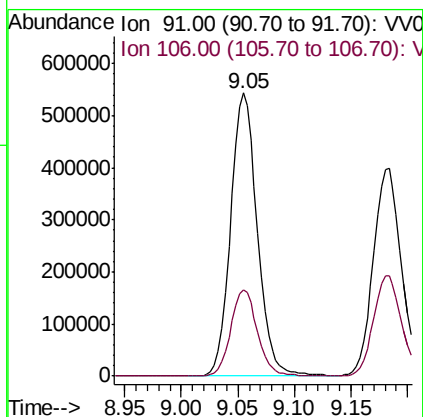
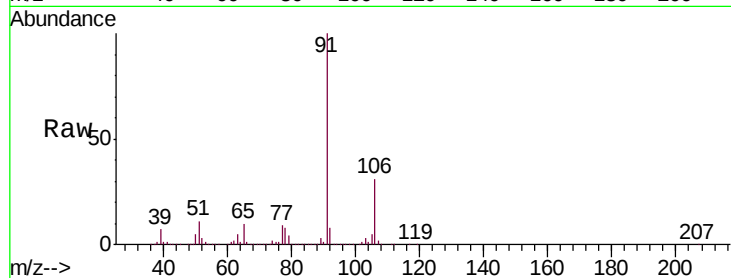




#53
Ethylbenzene
Concen: 26.374 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

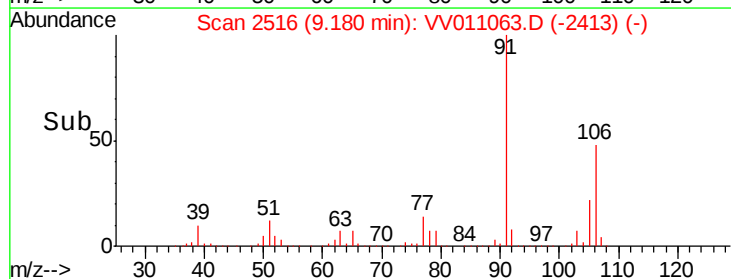
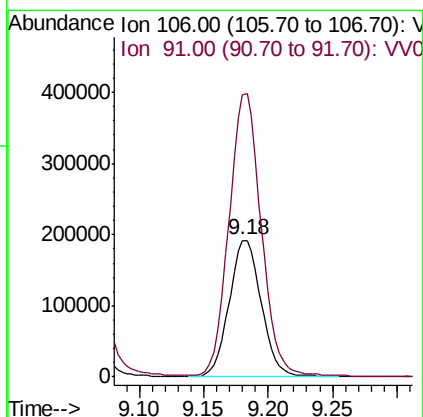
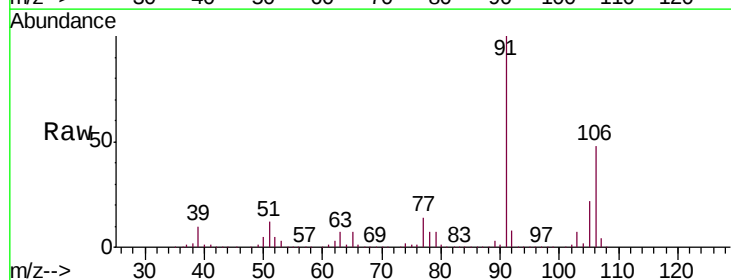
Instrument :
MSVOA_V
ClientSampleId :
VSTD02574

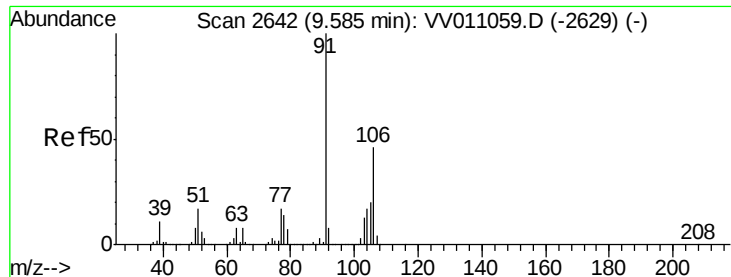
Tgt Ion: 91 Resp: 891828
Ion Ratio Lower Upper
91 100
106 30.6 21.3 39.6



#54
m,p-Xylene
Concen: 26.362 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV011063.D
Acq: 28 May 2019 13:36

Tgt Ion: 106 Resp: 332043
Ion Ratio Lower Upper
106 100
91 206.3 145.7 270.7





#55

o-xylene

Concen: 26.272 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

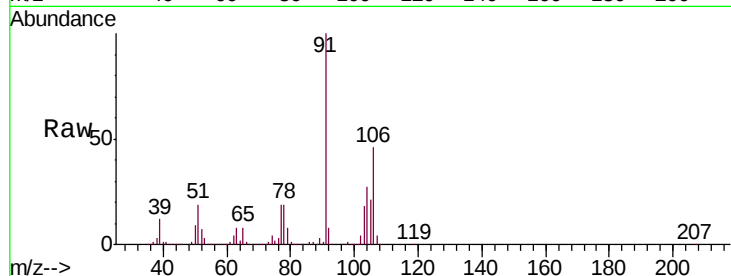
VSTD02574

Tgt Ion:106 Resp: 321547

Ion Ratio Lower Upper

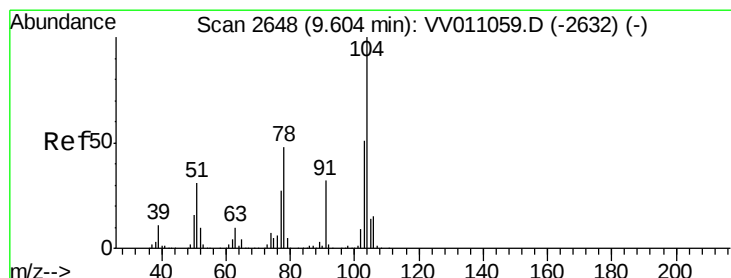
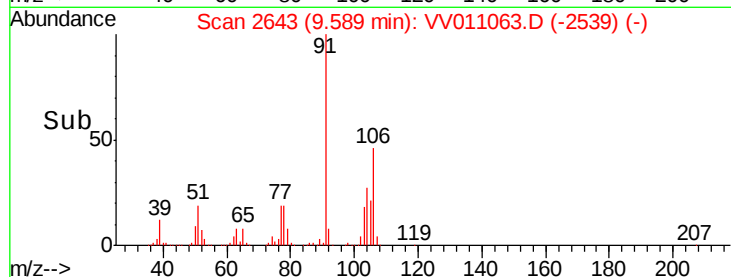
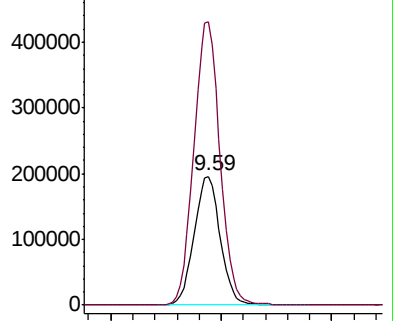
106 100

91 219.3 151.5 281.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 26.573 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011063.D

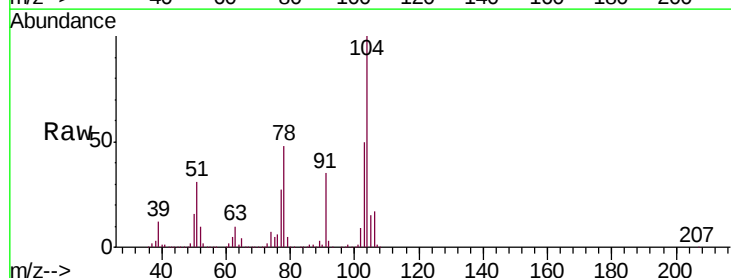
Acq: 28 May 2019 13:36

Tgt Ion:104 Resp: 551437

Ion Ratio Lower Upper

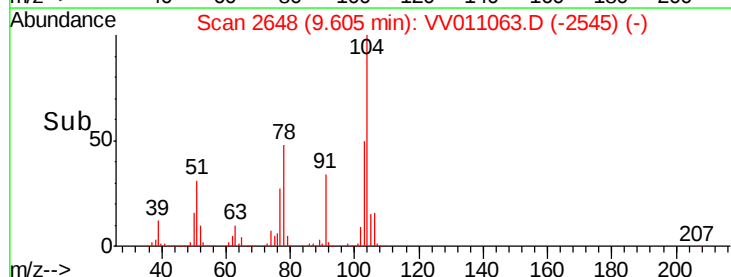
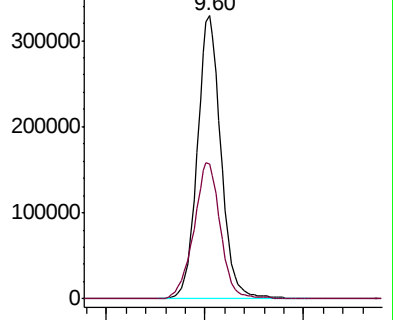
104 100

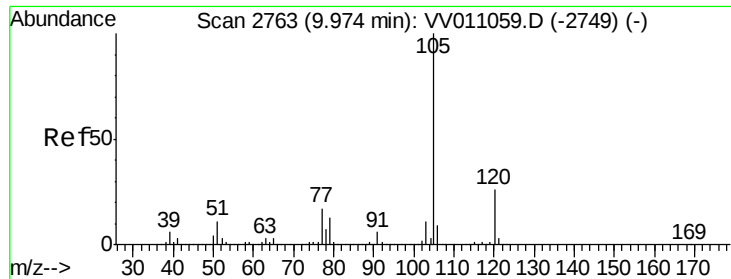
78 47.6 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.735 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

VSTD02574

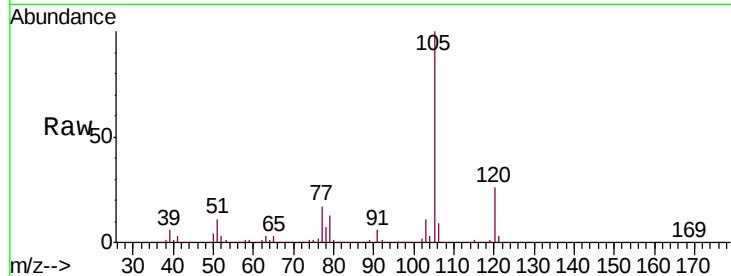
Tgt Ion:105 Resp: 873284

Ion Ratio Lower Upper

105 100

120 25.8 21.0 31.4

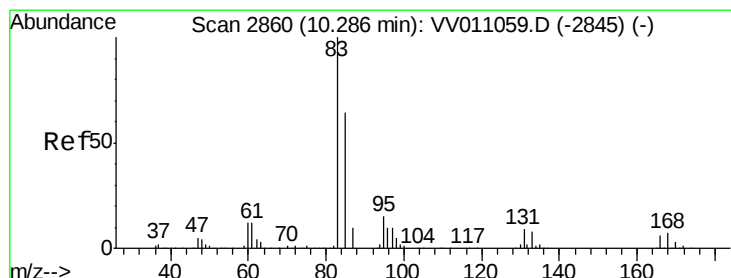
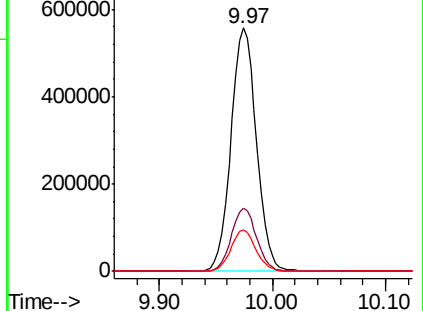
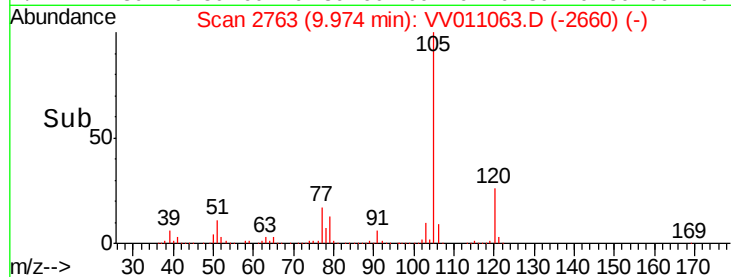
77 16.6 13.3 19.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 25.655 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

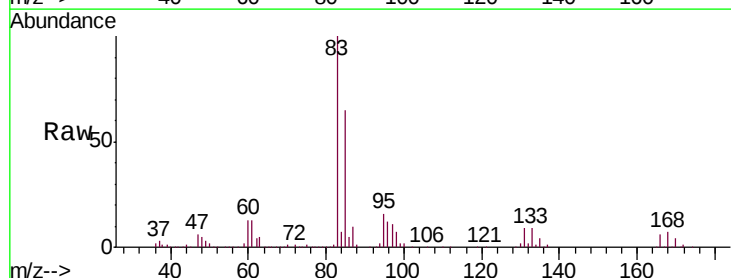
Tgt Ion: 83 Resp: 182110

Ion Ratio Lower Upper

83 100

85 64.6 44.7 82.9

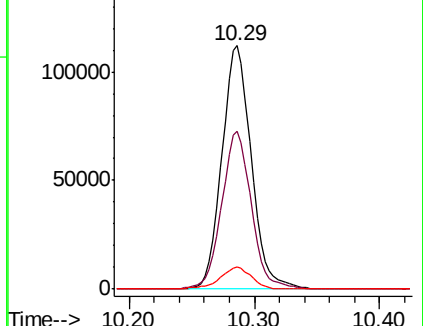
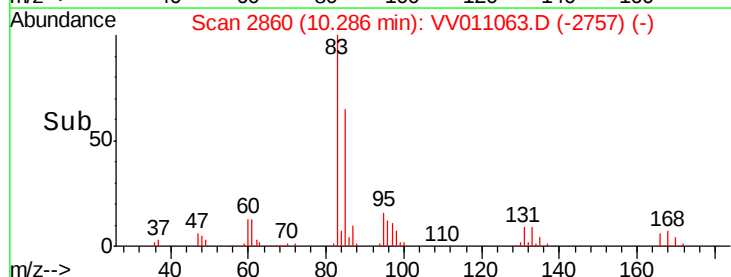
131 9.1 7.1 10.7

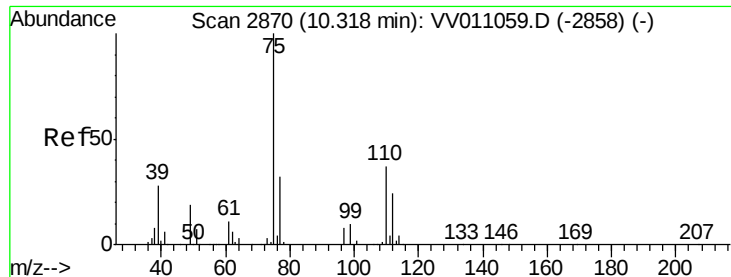


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.625 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

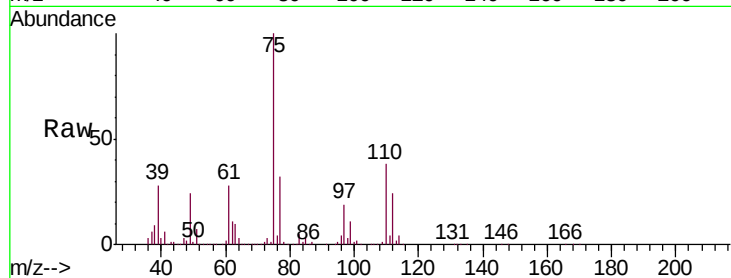
VSTD02574

Tgt Ion: 75 Resp: 139010

Ion Ratio Lower Upper

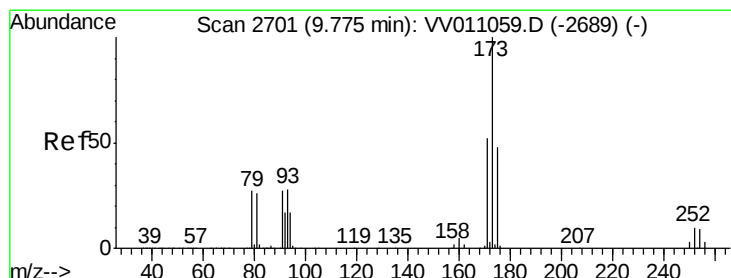
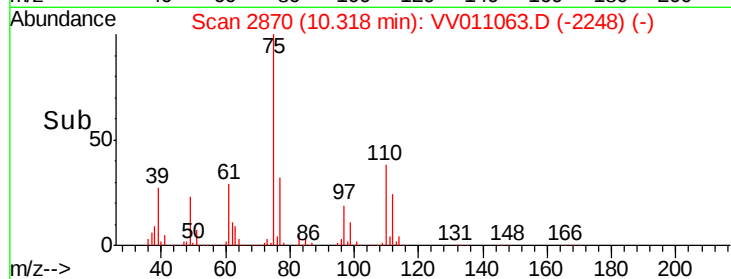
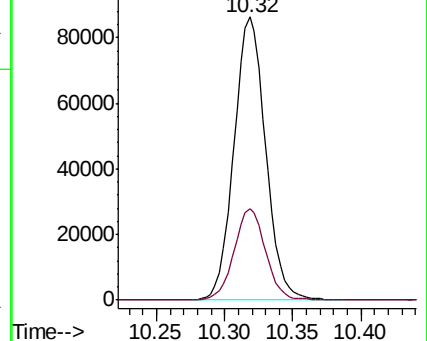
75 100

77 31.5 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV011059.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV011059.D (-2858) (-)



#62

Bromoform

Concen: 24.781 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

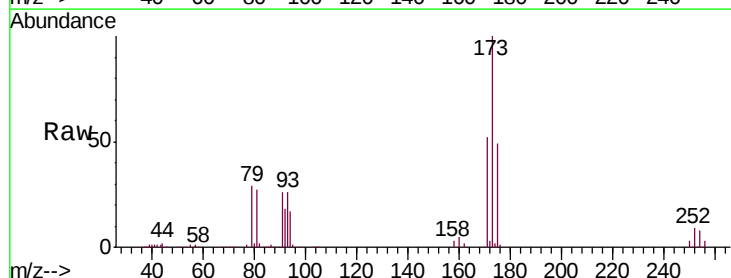
Tgt Ion: 173 Resp: 89956

Ion Ratio Lower Upper

173 100

175 48.9 39.0 58.4

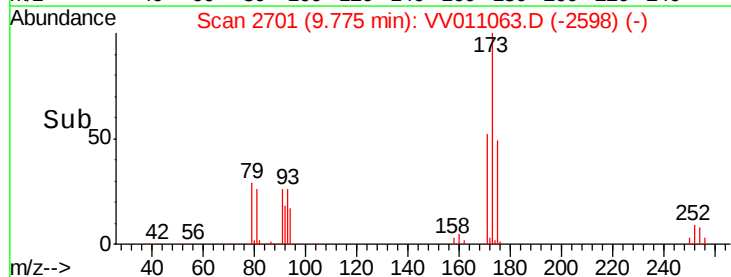
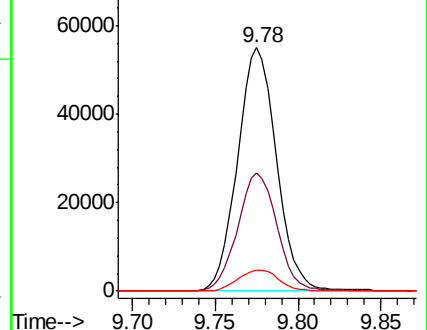
254 9.0 7.0 10.4

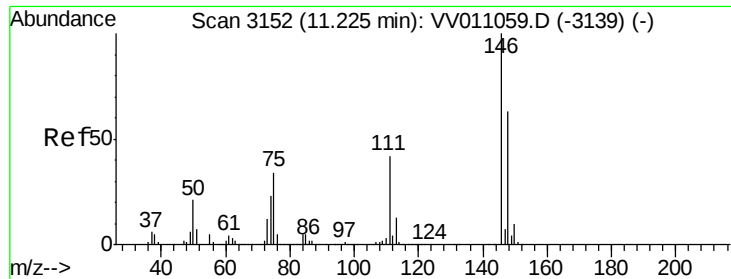


Abundance Ion 173.00 (172.70 to 173.70): VV011059.D (-2689) (-)

Ion 175.00 (174.70 to 175.70): VV011059.D (-2689) (-)

Ion 254.00 (253.70 to 254.70): VV011059.D (-2689) (-)

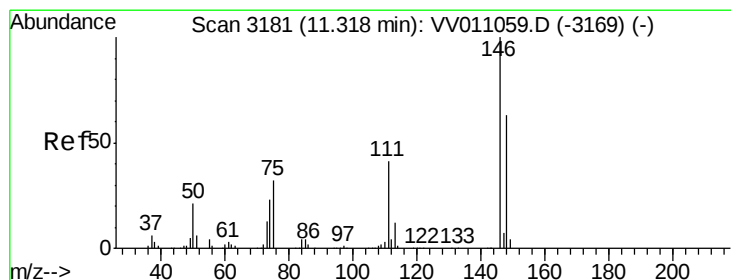
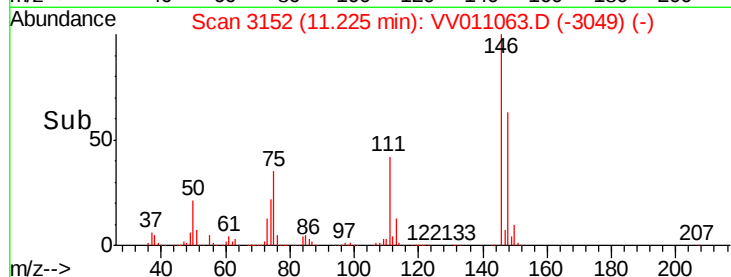
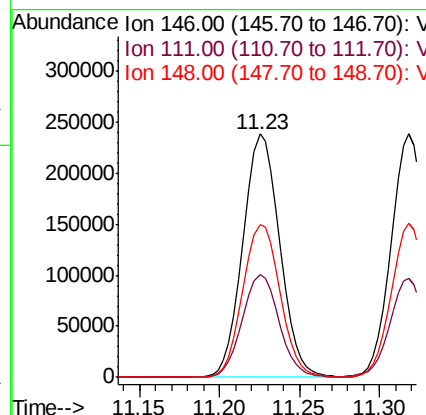
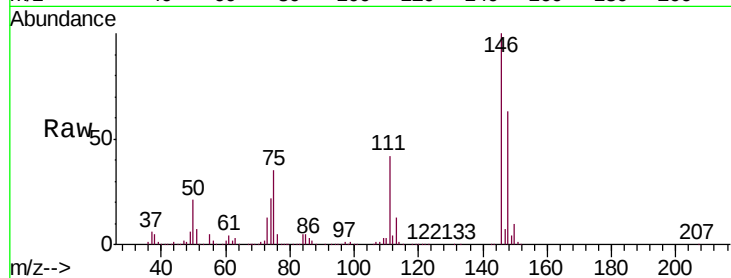




#63
 1,3-Dichlorobenzene
 Concen: 26.367 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

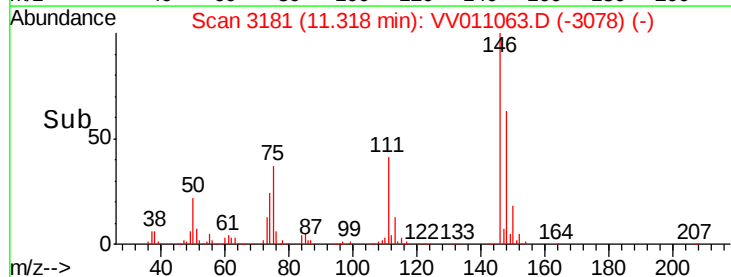
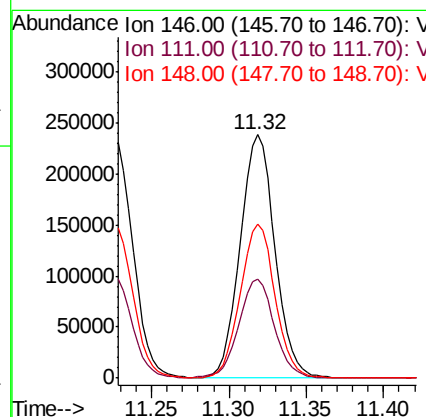
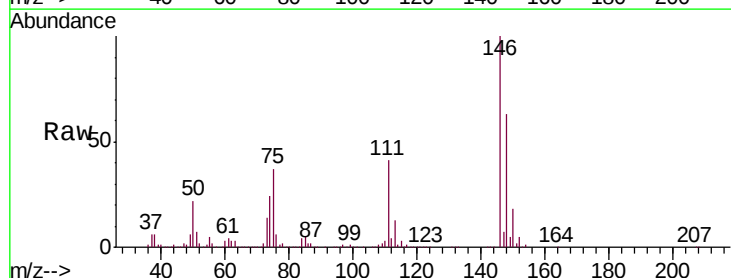
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02574

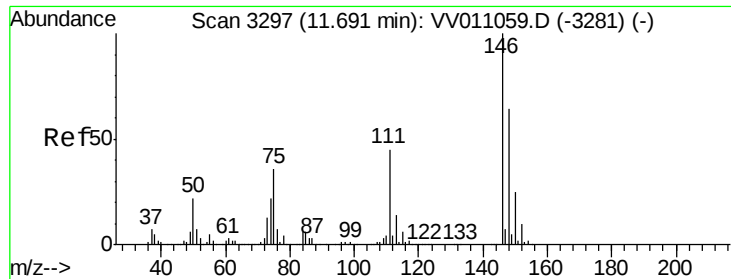
Tgt Ion:146 Resp: 374303
 Ion Ratio Lower Upper
 146 100
 111 42.2 29.6 55.0
 148 63.0 44.1 81.9



#64
 1,4-Dichlorobenzene
 Concen: 26.233 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Tgt Ion:146 Resp: 370598
 Ion Ratio Lower Upper
 146 100
 111 40.7 28.8 53.4
 148 63.3 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 26.016 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

VSTD02574

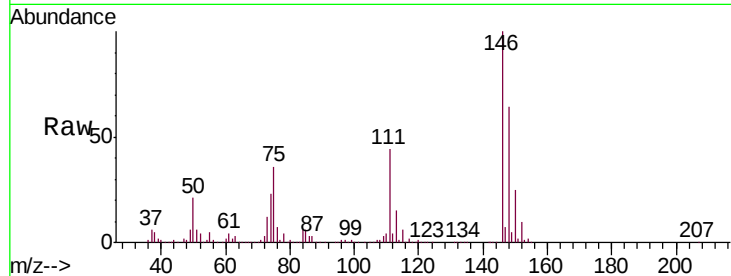
Tgt Ion:146 Resp: 345124

Ion Ratio Lower Upper

146 100

111 44.1 35.9 53.9

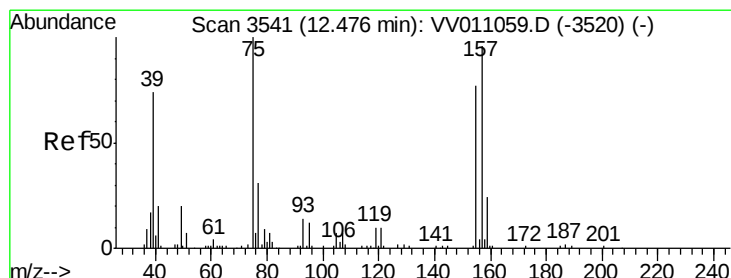
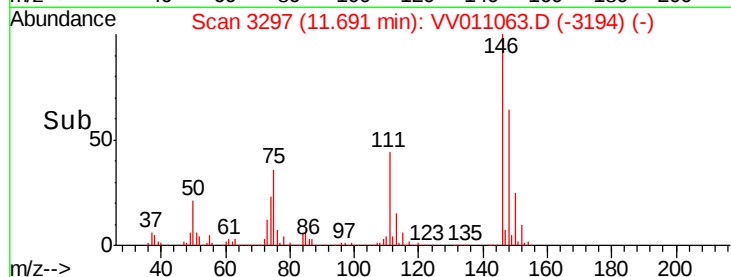
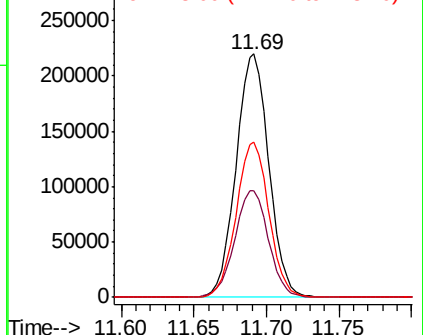
148 63.9 51.4 77.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 24.699 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

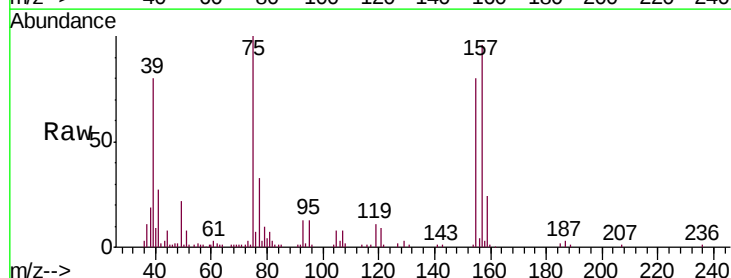
Tgt Ion: 75 Resp: 33446

Ion Ratio Lower Upper

75 100

157 96.5 76.7 115.1

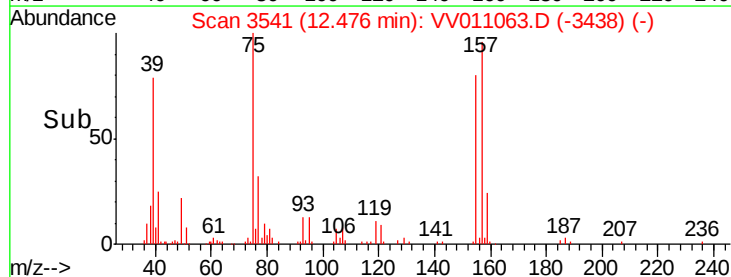
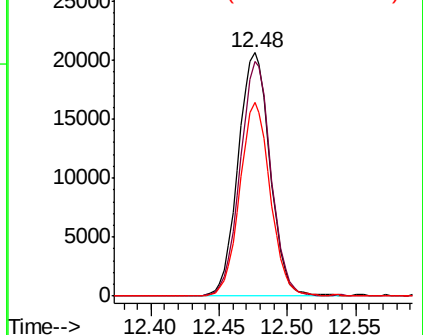
155 79.6 61.8 92.8

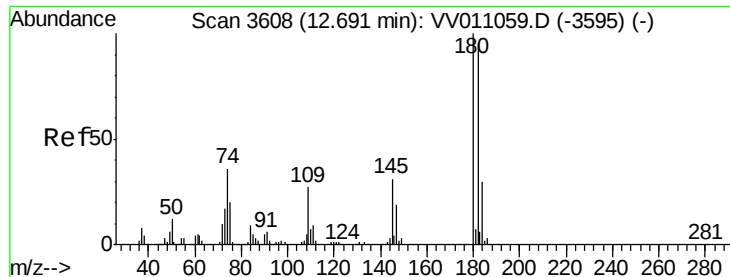


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

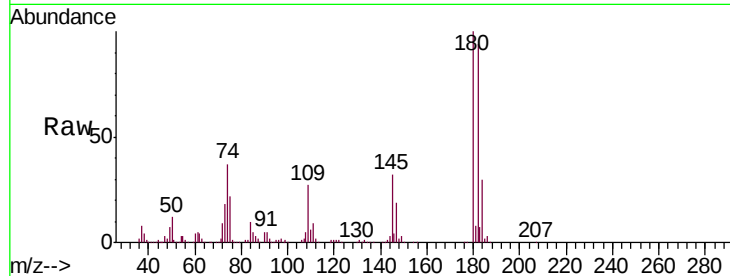




#67
 1,3,5-Trichlorobenzene
 Concen: 26.739 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02574

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.6	114.8
184	30.3	24.7	37.1
145	31.5	24.9	37.3



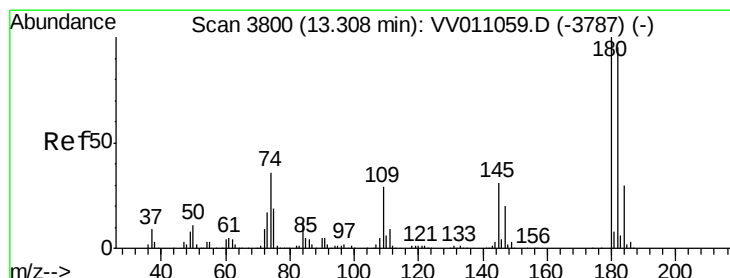
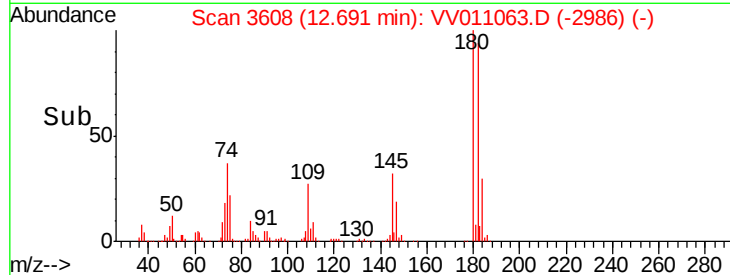
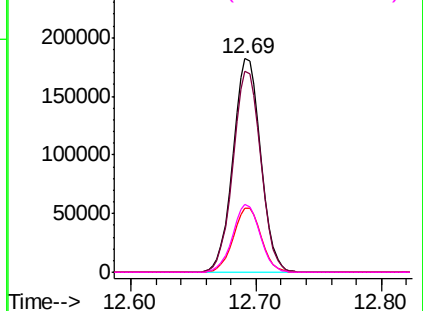
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

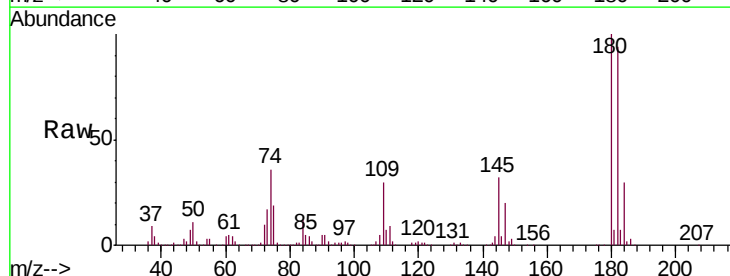
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 27.633 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011063.D
 Acq: 28 May 2019 13:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.8	115.2
145	31.4	25.4	38.0

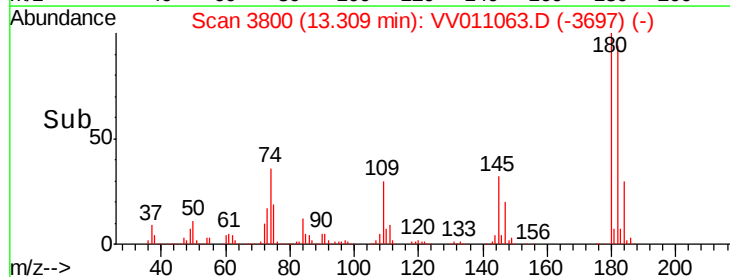
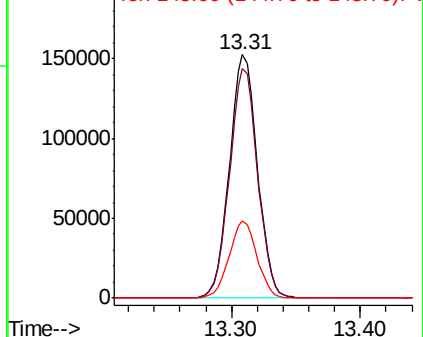


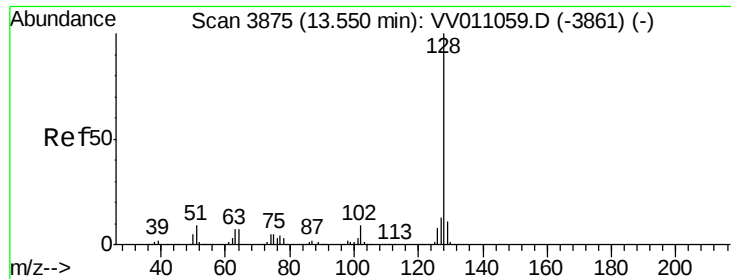
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.772 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

Instrument :

MSVOA_V

ClientSampleId :

VSTD02574

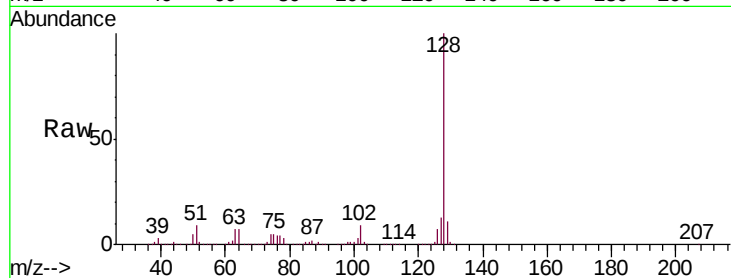
Tgt Ion:128 Resp: 492985

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

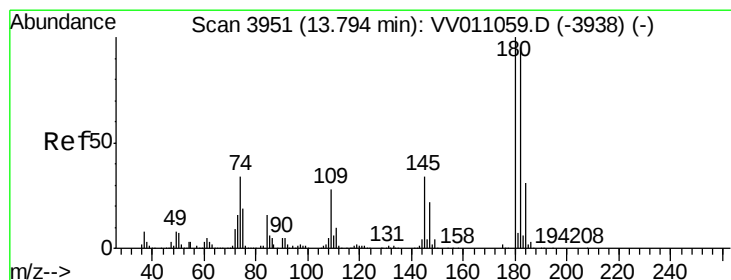
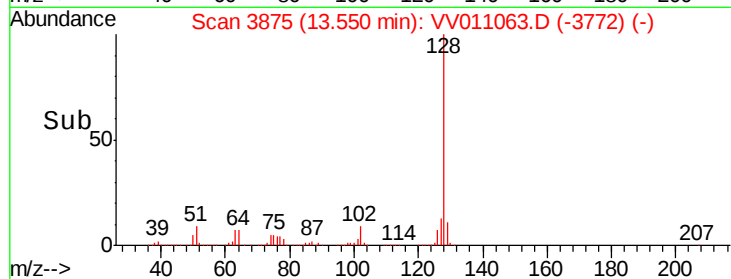
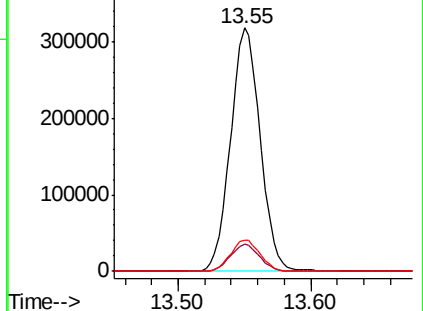
127 12.9 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.637 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011063.D

Acq: 28 May 2019 13:36

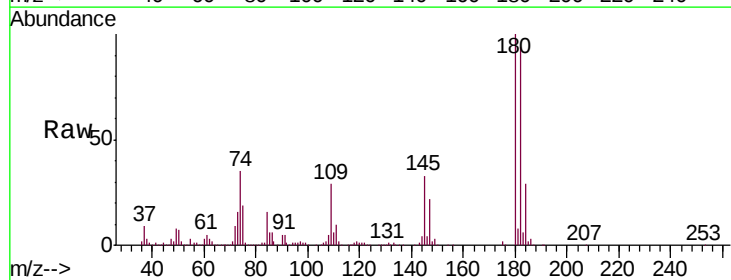
Tgt Ion:180 Resp: 210070

Ion Ratio Lower Upper

180 100

182 94.8 75.7 113.5

145 34.0 27.0 40.6



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

