

Data File : VV009633.D
Acq On : 13 Mar 2019 11:26
Operator : SY/MD
Sample : VSTD02580
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

Quant Time: Mar 13 11:58:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM031319S.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 13 10:39:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	160397	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	159912	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	74916	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	48526	25.13	ug/L	0.00
7) Chloroethane-d5	1.57	69	49105	17.59	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	134795	26.83	ug/L	0.00
20) 2-Butanone-d5	3.93	46	27462	41.74	ug/L	0.00
24) Chloroform-d	4.40	84	101212	26.49	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	58922	27.11	ug/L	0.00
29) Benzene-d6	5.10	84	204743	25.85	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	61375	26.26	ug/L	0.00
37) Toluene-d8	7.36	98	204399	26.47	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	28035	24.75	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	20837	38.20	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	57254	22.99	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	70089	25.63	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	61913	33.524 ug/L	97
3) Chloromethane	1.25	50	55548	28.221 ug/L	99
5) Vinyl chloride	1.32	62	58917	27.151 ug/L	100
6) Bromomethane	1.51	94	52747	19.526 ug/L	98
8) Chloroethane	1.59	64	42100	17.459 ug/L	97
9) Trichlorofluoromethane	1.76	101	126656	28.454 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	70205	28.167 ug/L	97
12) 1,1-Dichloroethene	2.14	96	61269	28.731 ug/L	92
13) Acetone	2.19	43	38830	58.046 ug/L	97
14) Carbon disulfide	2.31	76	152943	28.296 ug/L	99
15) Methyl Acetate	2.46	43	24390	22.515 ug/L	95
16) Methylene chloride	2.53	84	54920	26.090 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	131654	27.569 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	53675	28.021 ug/L	98
19) 1,1-Dichloroethane	3.23	63	95849	28.399 ug/L	98
21) 2-Butanone	4.01	43	43199	51.167 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	61466	28.424 ug/L	98
23) Bromochloromethane	4.30	128	28393	28.475 ug/L	95
25) Chloroform	4.42	83	112080	29.756 ug/L	98
27) 1,2-Dichloroethane	5.18	62	74248	28.383 ug/L	98
30) Cyclohexane	4.72	56	90523	26.673 ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	95856	26.814 ug/L	98
32) Carbon tetrachloride	4.87	117	80571	26.659 ug/L	100
34) Benzene	5.14	78	226583	27.422 ug/L	100
35) Trichloroethene	5.96	95	63103	26.574 ug/L	98
36) Methylcyclohexane	6.18	83	102457	26.486 ug/L	98
40) 1,2-Dichloropropane	6.22	63	55959	26.265 ug/L	99
41) Bromodichloromethane	6.55	83	79075	27.498 ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	86465	26.141 ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	74576	44.404 ug/L	98

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	259181	27.749	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	75201	26.033	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	46284	26.149	ug/L	99
47) Tetrachloroethene	8.02	164	49965	27.741	ug/L	95
49) 2-Hexanone	8.18	43	58066	45.722	ug/L	97
50) Dibromochloromethane	8.29	129	55006	25.669	ug/L	97
51) 1,2-Dibromoethane	8.40	107	47256	25.840	ug/L	96
52) Chlorobenzene	8.93	112	167409	27.041	ug/L	99
53) Ethylbenzene	9.05	91	293919	27.500	ug/L	95
54) m,p-Xylene	9.18	106	112230	27.744	ug/L	97
55) o-xylene	9.59	106	108814	27.896	ug/L	95
56) Styrene	9.60	104	181706	28.315	ug/L	99
57) Isopropylbenzene	9.98	105	288509	26.815	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	60956	24.389	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	43239	23.999	ug/L	99
62) Bromoform	9.77	173	29709	24.438	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	125885	26.901	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	125670	26.280	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	119052	27.280	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	8448	19.327	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	86917	25.894	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	62706	23.333	ug/L	99
69) Naphthalene	13.55	128	102933	18.184	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	57983	23.453	ug/L	97

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

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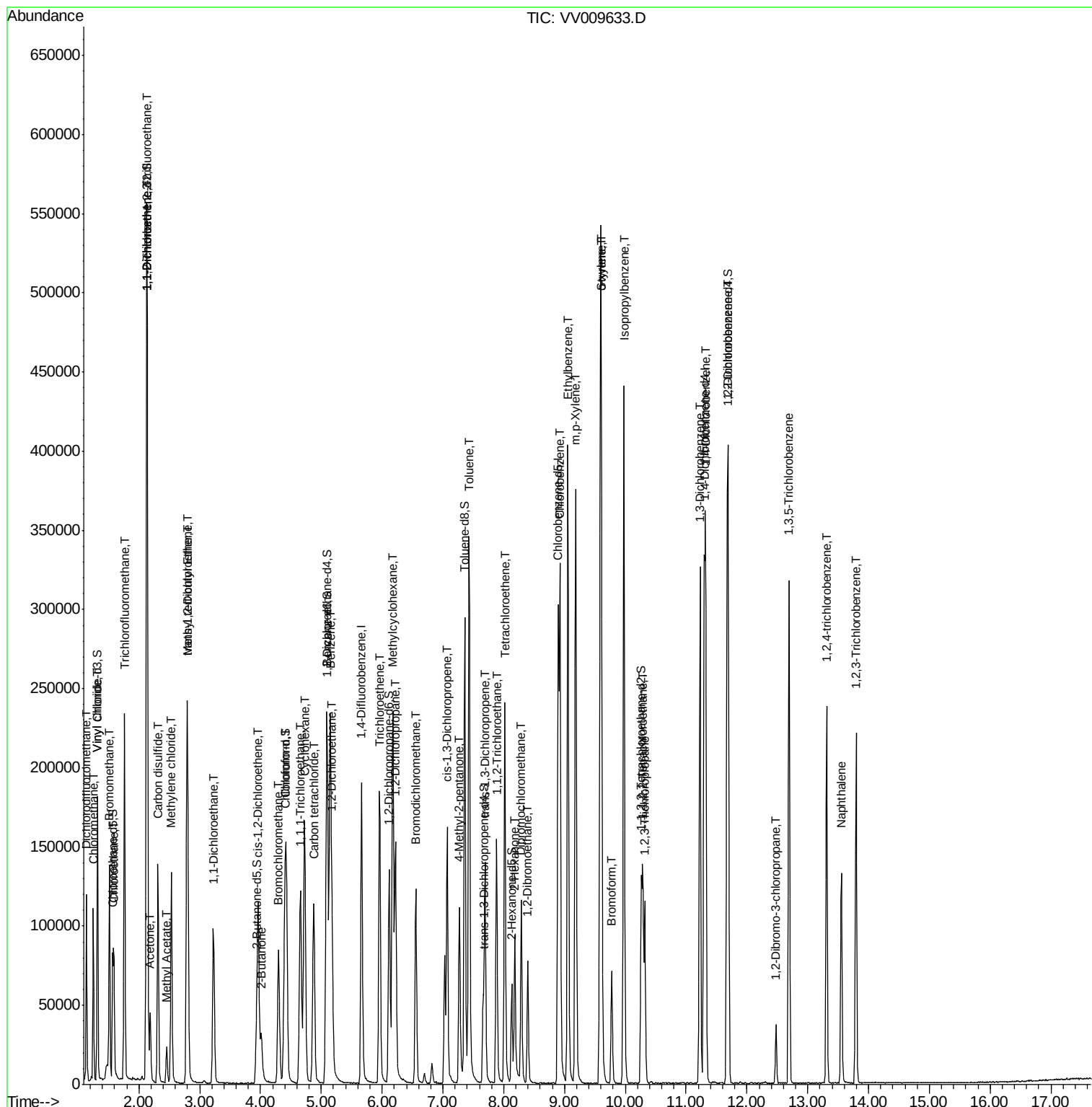
Quant Time: Mar 13 11:58:19 2019

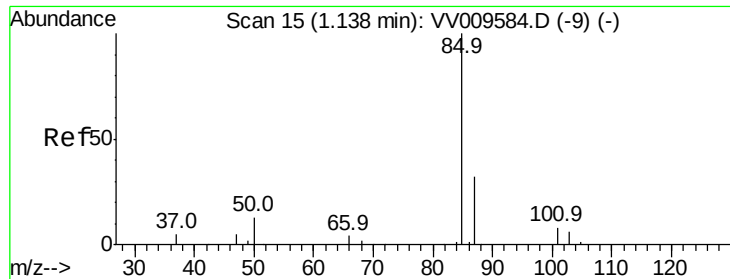
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM031319S.M

Quant Title : VOC Analysis

QLast Update : Wed Mar 13 10:39:08 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 33.524 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

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Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

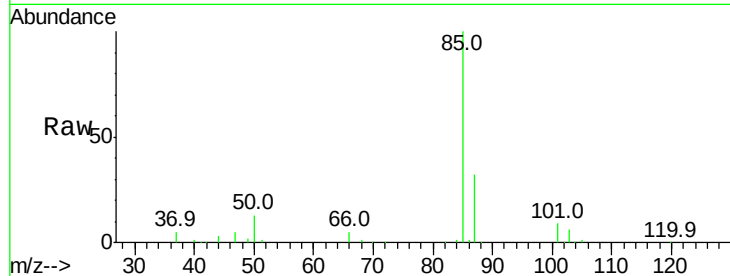
VSTD02580

Tgt Ion: 85 Resp: 61913

Ion Ratio Lower Upper

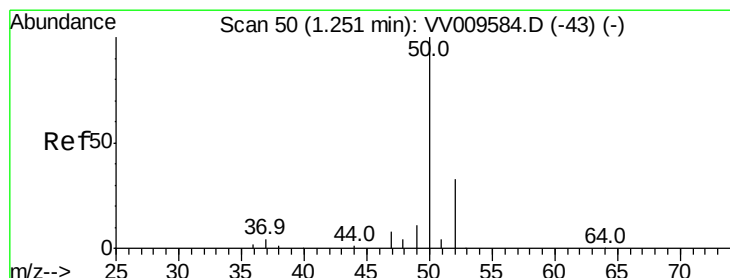
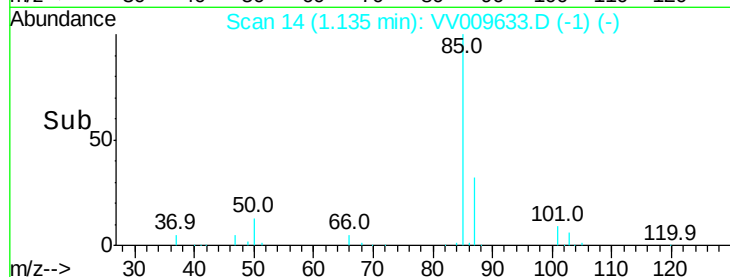
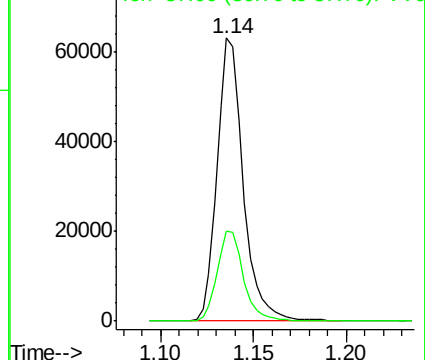
85 100

87 32.0 23.4 43.4



Abundance Ion 85.00 (84.70 to 85.70): VV009584.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV009584.D (-9) (-)



#3

Chloromethane

Concen: 28.221 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009633.D

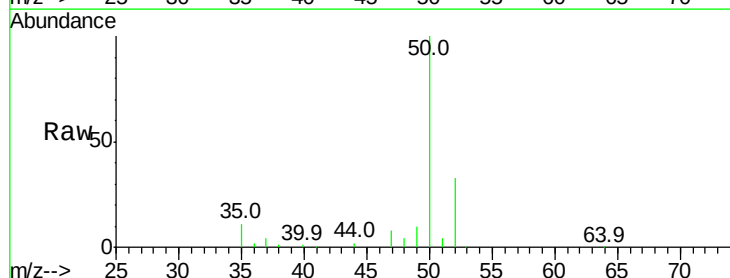
Acq: 13 Mar 2019 11:26

Tgt Ion: 50 Resp: 55548

Ion Ratio Lower Upper

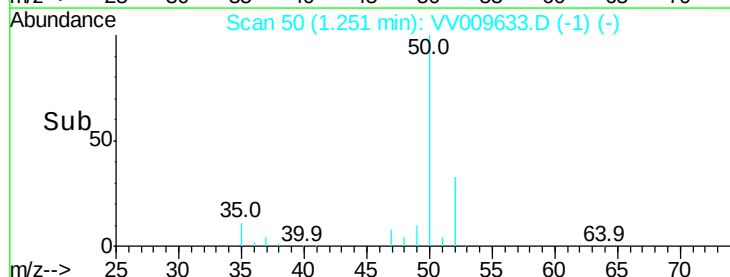
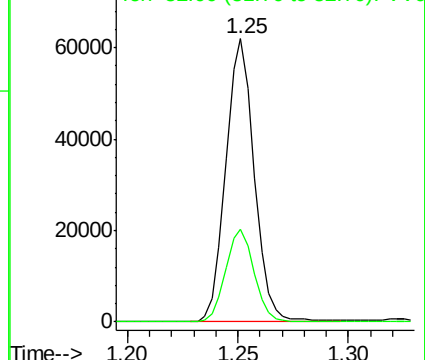
50 100

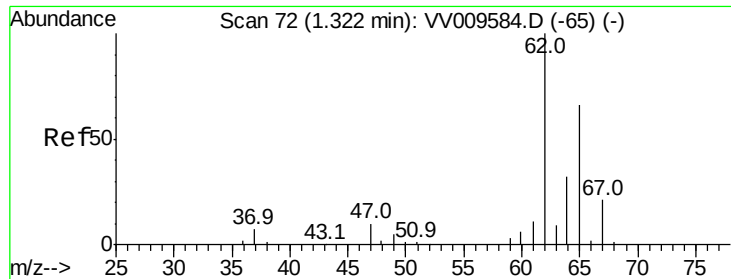
52 32.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV009584.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009584.D (-43) (-)





#5

Vinyl chloride

Concen: 27.151 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

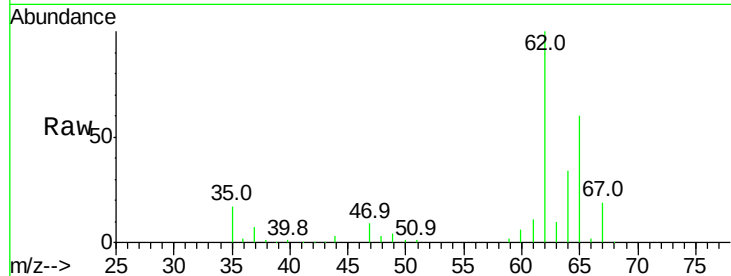
VSTD02580

Tgt Ion: 62 Resp: 58917

Ion Ratio Lower Upper

62 100

64 33.7 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VV009584.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009584.D (-65) (-)

1.32

60000

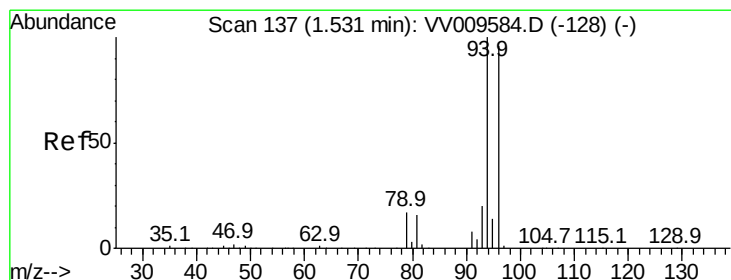
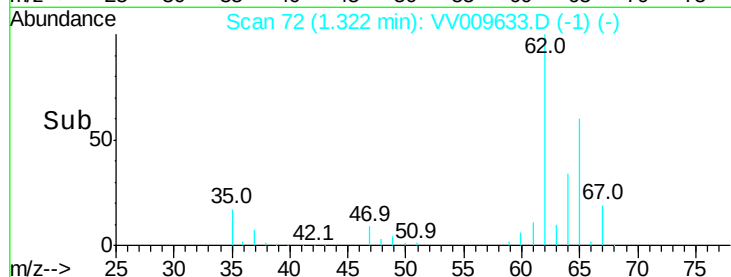
40000

20000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 19.526 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.02 min

Lab File: VV009633.D

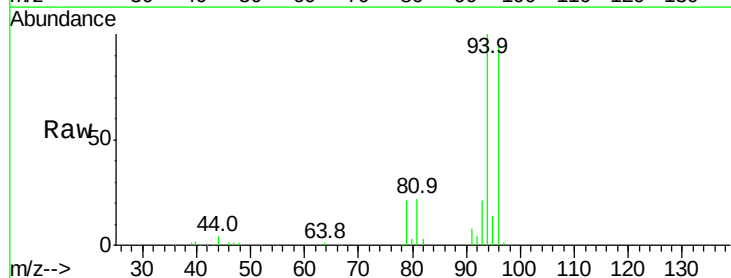
Acq: 13 Mar 2019 11:26

Tgt Ion: 94 Resp: 52747

Ion Ratio Lower Upper

94 100

96 93.8 9.5 181.4



Abundance Ion 94.00 (93.70 to 94.70): VV009584.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV009584.D (-128) (-)

1.51

50000

40000

30000

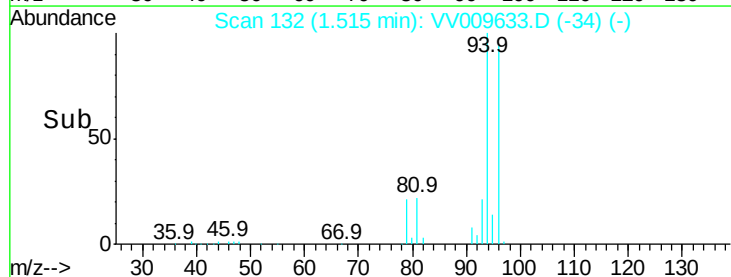
20000

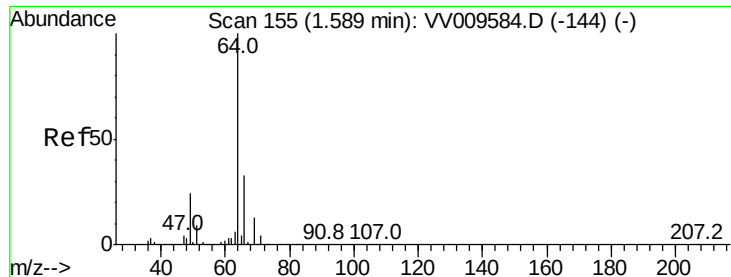
10000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 17.459 ug/L

RT: 1.59 min Scan# 155

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

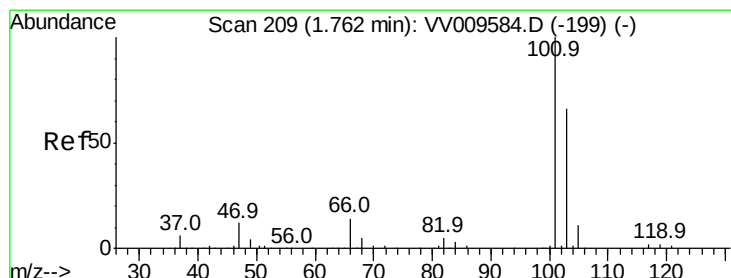
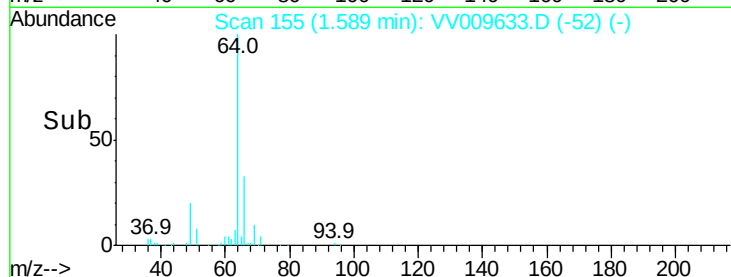
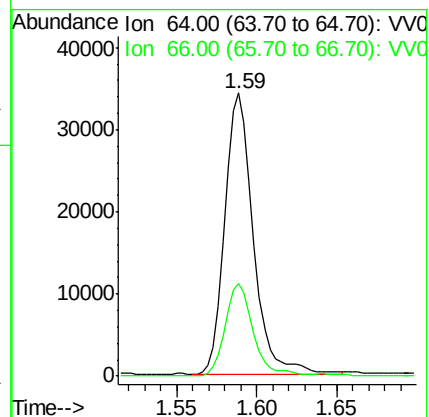
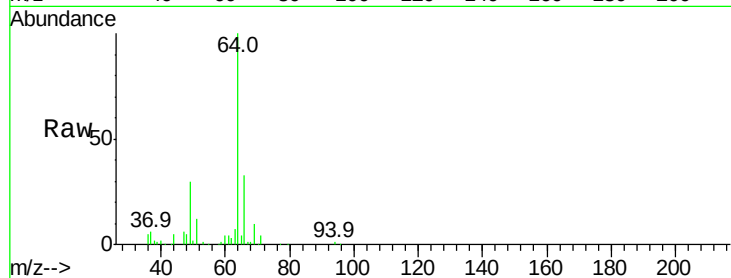
VSTD02580

Tgt Ion: 64 Resp: 42100

Ion Ratio Lower Upper

64 100

66 32.9 21.8 40.6



#9

Trichlorofluoromethane

Concen: 28.454 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV009633.D

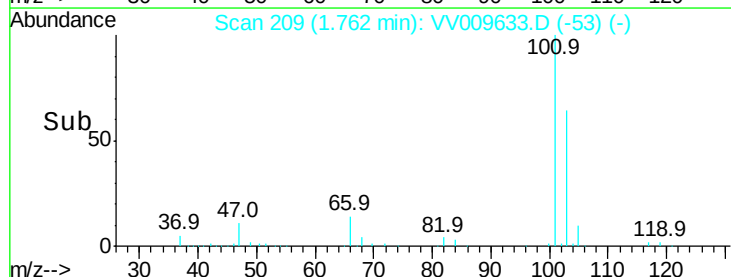
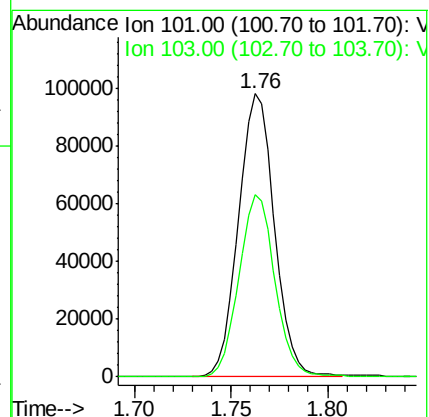
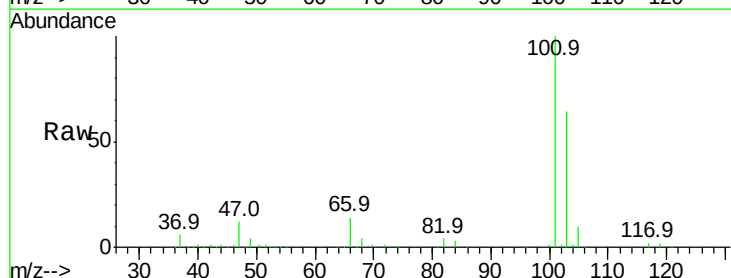
Acq: 13 Mar 2019 11:26

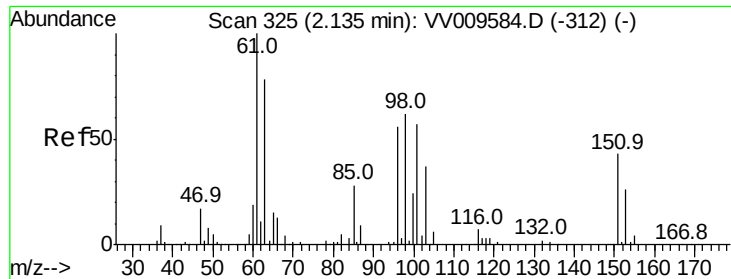
Tgt Ion: 101 Resp: 126656

Ion Ratio Lower Upper

101 100

103 64.8 44.7 83.1





#11

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

Concen: 28.167 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

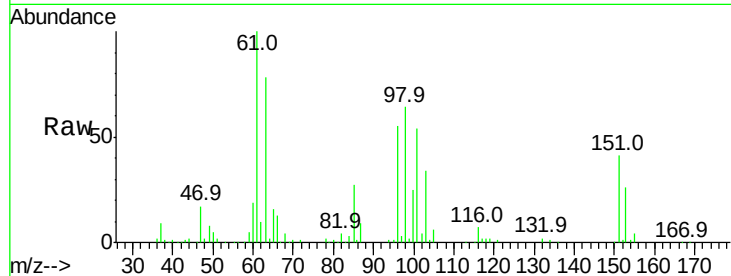
Tgt Ion:101 Resp: 70205

Ion Ratio Lower Upper

101 100

85 48.4 40.1 60.1

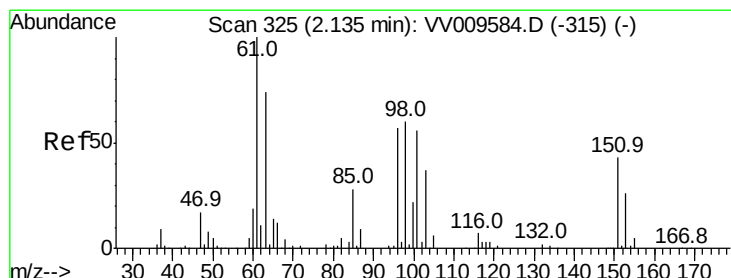
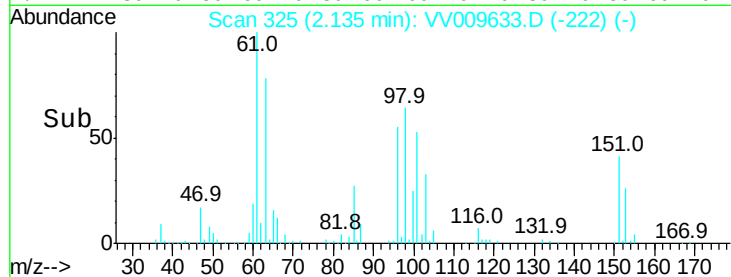
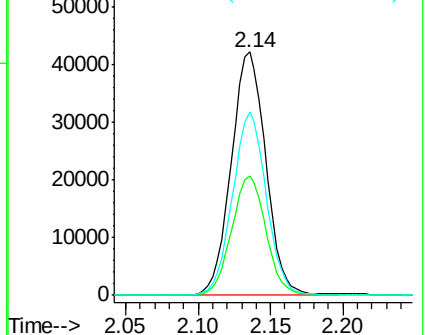
151 73.1 55.9 83.9



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: 28.731 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

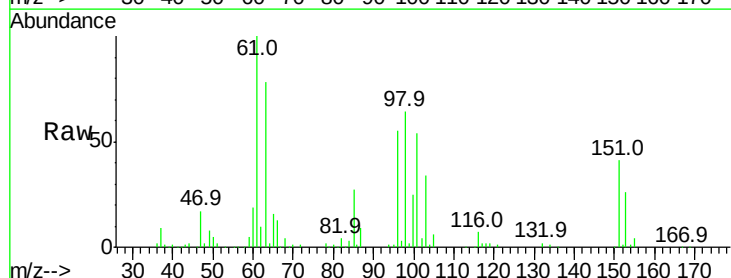
Tgt Ion: 96 Resp: 61269

Ion Ratio Lower Upper

96 100

61 183.5 136.9 254.3

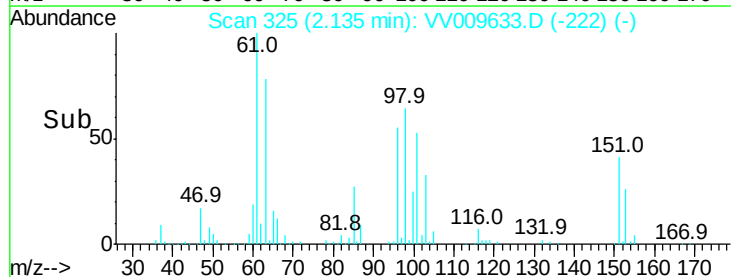
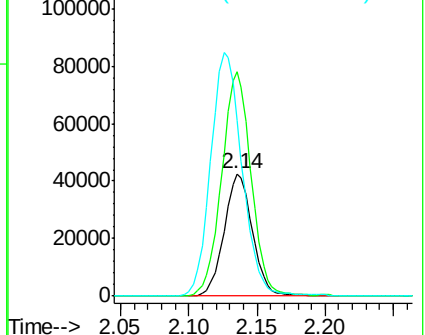
63 143.8 108.7 201.9

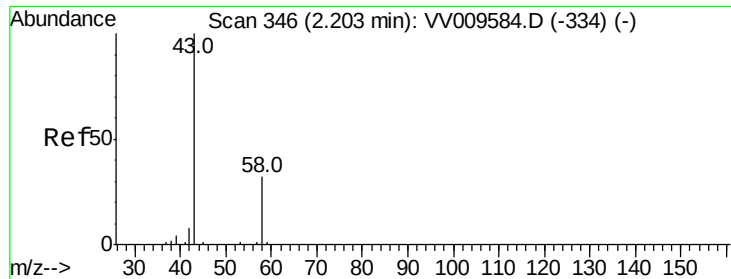


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 58.046 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.02 min

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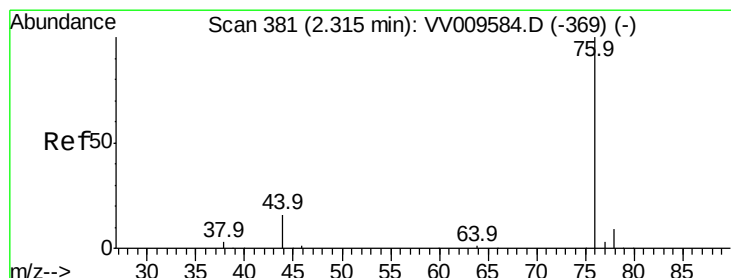
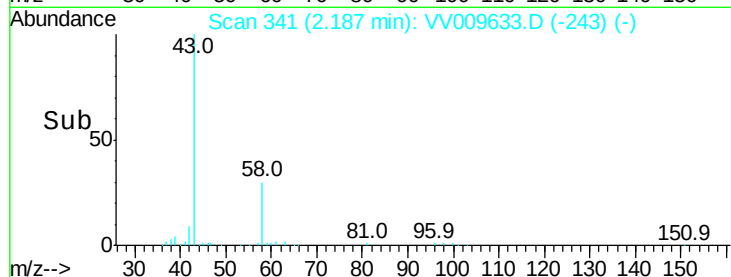
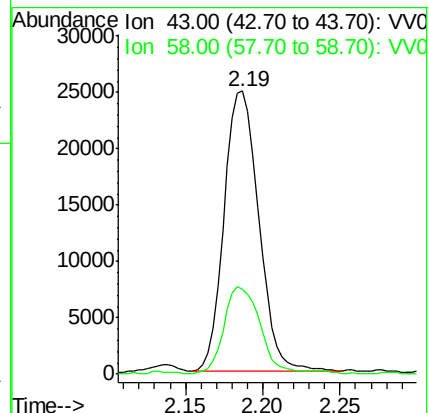
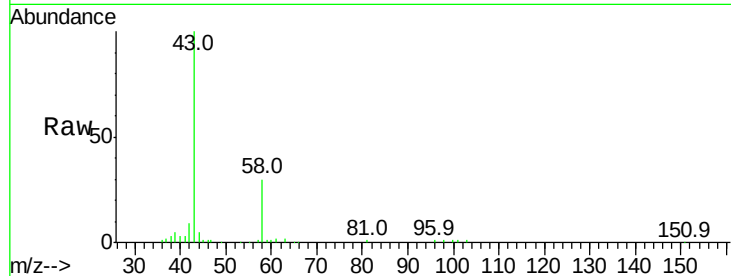
VSTD02580

Tgt Ion: 43 Resp: 38830

Ion Ratio Lower Upper

43 100

58 32.4 0.0 68.8



#14

Carbon disulfide

Concen: 28.296 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009633.D

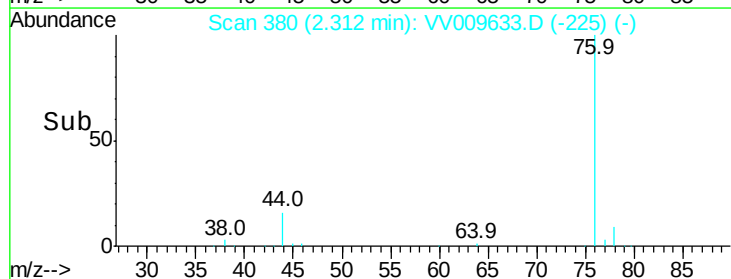
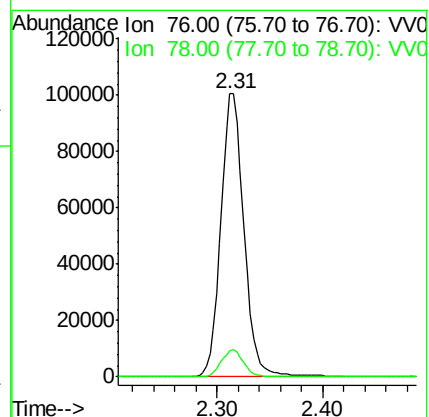
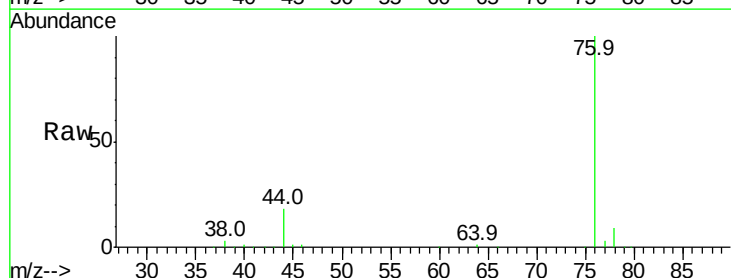
Acq: 13 Mar 2019 11:26

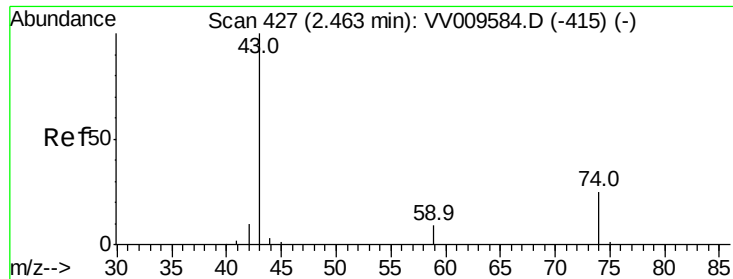
Tgt Ion: 76 Resp: 152943

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3

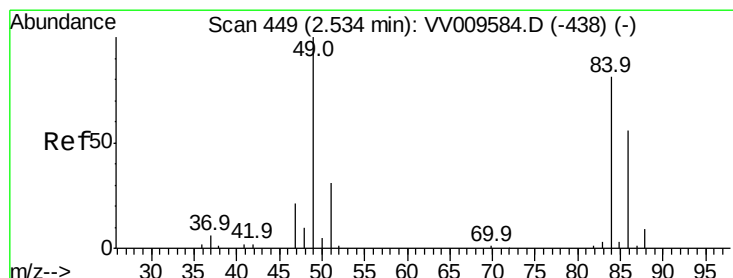
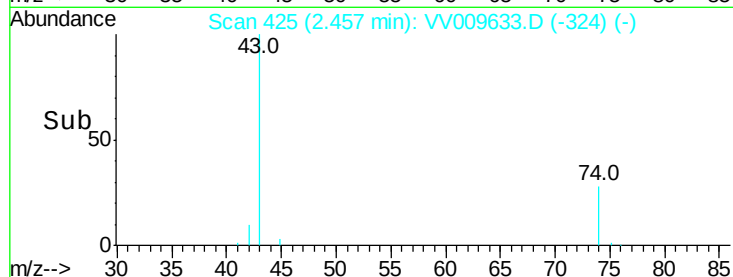
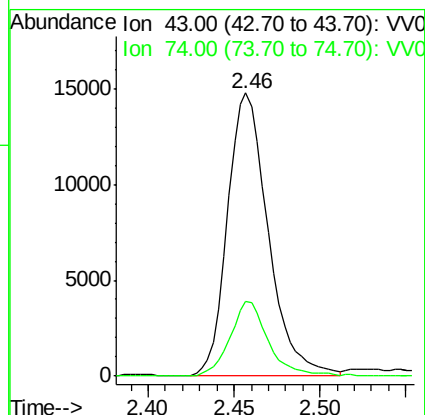
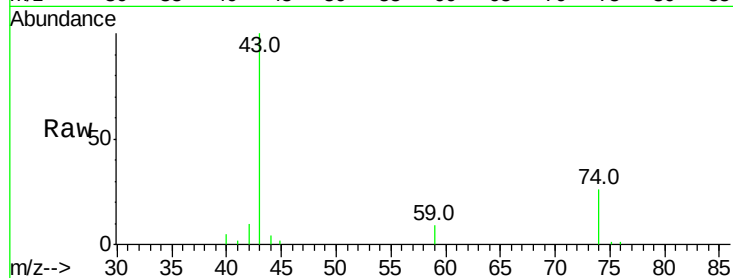




#15
Methyl Acetate
Concen: 22.515 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.01 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

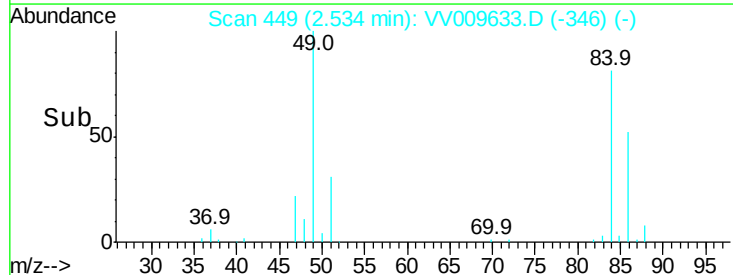
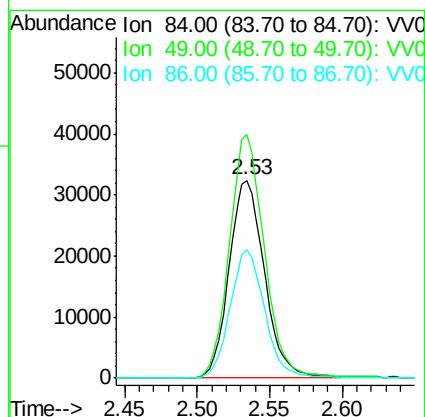
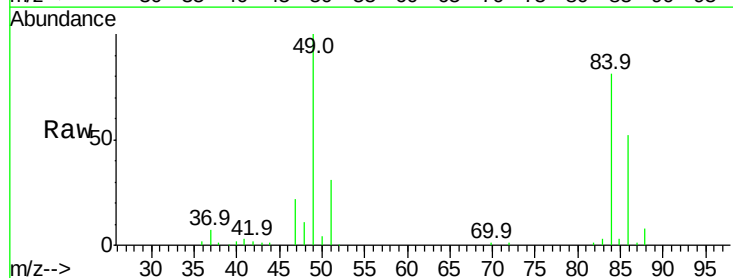
Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

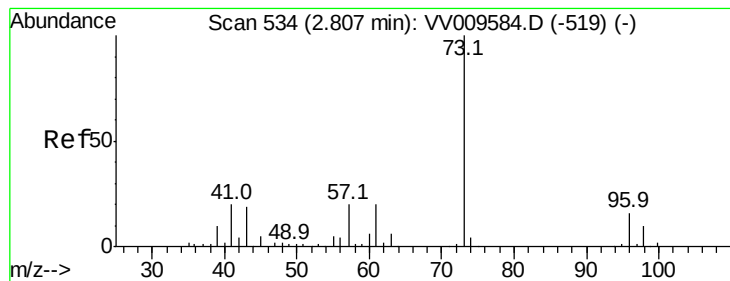
Tgt Ion: 43 Resp: 24390
Ion Ratio Lower Upper
43 100
74 24.7 21.8 32.8



#16
Methylene chloride
Concen: 26.090 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

Tgt Ion: 84 Resp: 54920
Ion Ratio Lower Upper
84 100
49 123.0 84.6 157.0
86 64.6 46.1 85.7





#17

Methyl tert-butyl Ether

Concen: 27.569 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

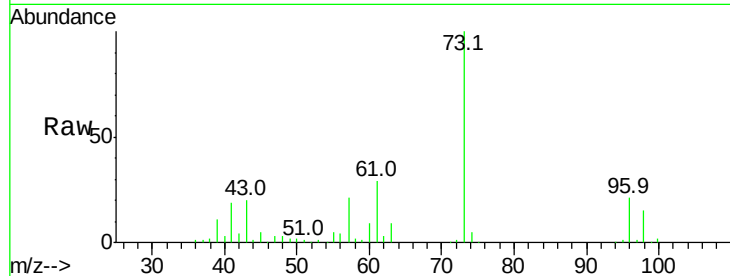
Tgt Ion: 73 Resp: 131654

Ion Ratio Lower Upper

73 100

43 20.4 15.0 22.4

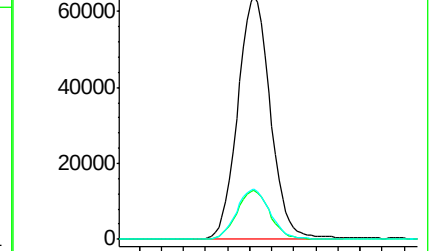
57 20.9 17.0 25.4



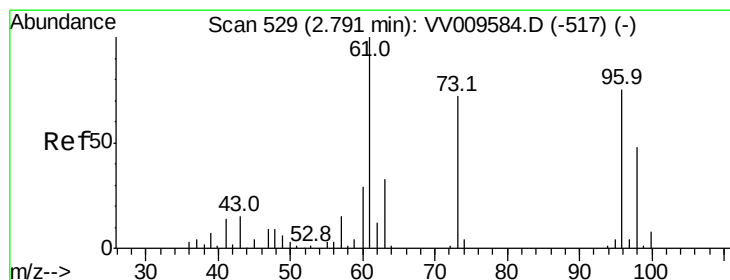
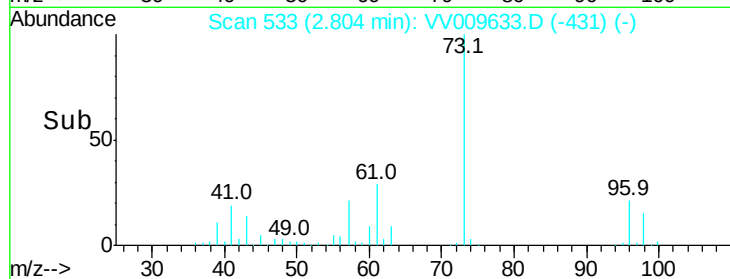
Abundance Ion 73.00 (72.70 to 73.70): VV009584.D (-519) (-)

Ion 43.00 (42.70 to 43.70): VV009584.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VV009584.D (-519) (-)



Time-->



#18

trans-1,2-Dichloroethene

Concen: 28.021 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

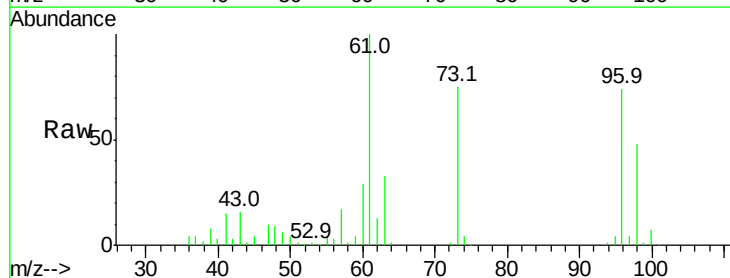
Tgt Ion: 96 Resp: 53675

Ion Ratio Lower Upper

96 100

61 134.8 95.6 177.6

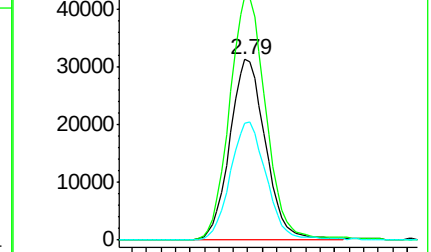
98 64.9 44.0 81.6



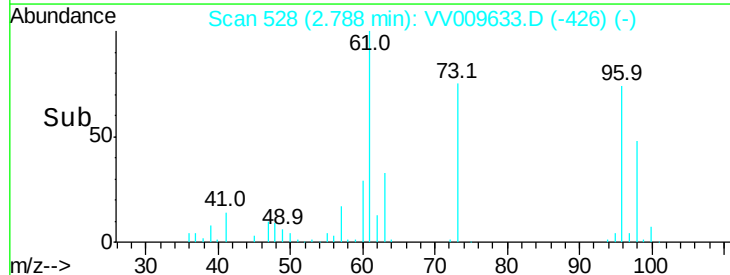
Abundance Ion 96.00 (95.70 to 96.70): VV009584.D (-517) (-)

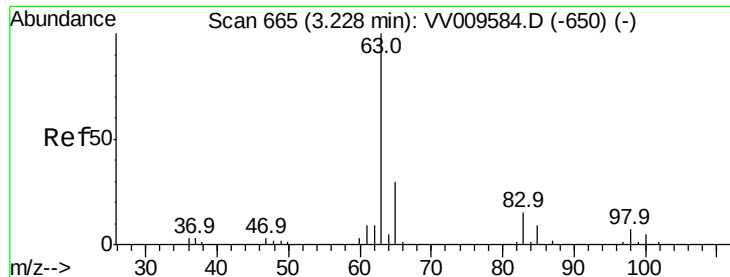
Ion 61.00 (60.70 to 61.70): VV009584.D (-517) (-)

Ion 98.00 (97.70 to 98.70): VV009584.D (-517) (-)



Time-->

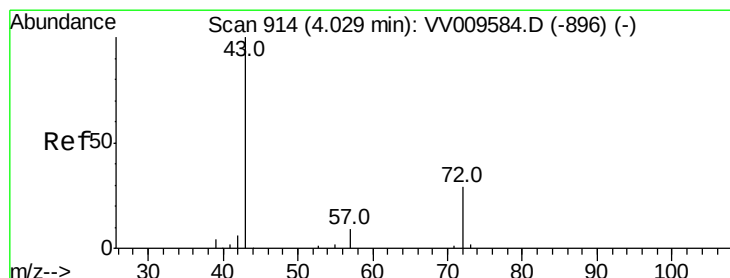
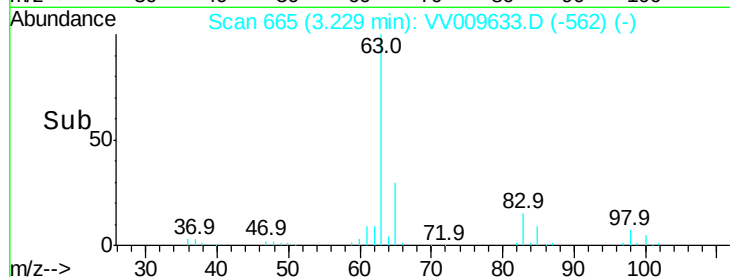
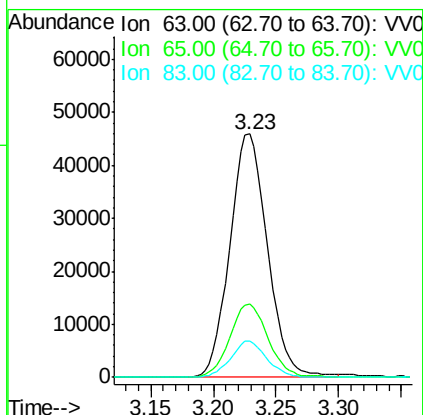
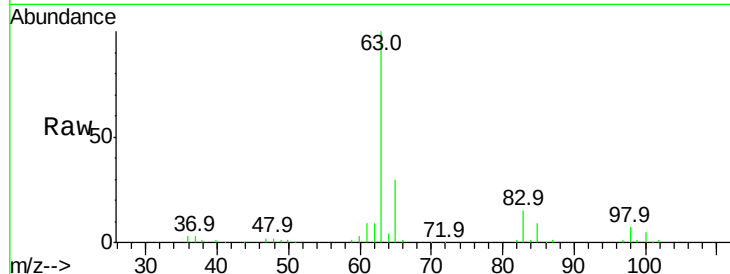




#19
 1,1-Dichloroethane
 Concen: 28.399 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

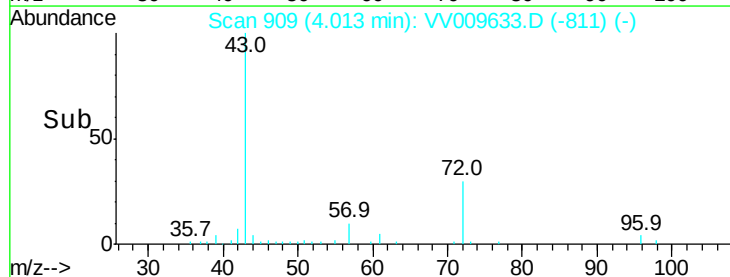
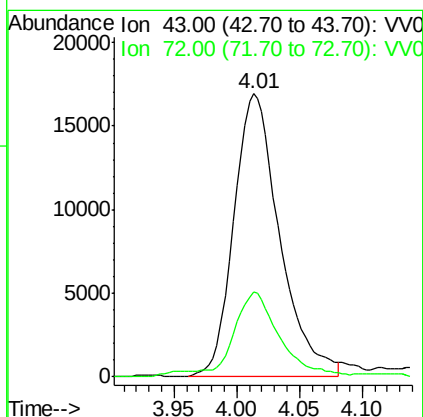
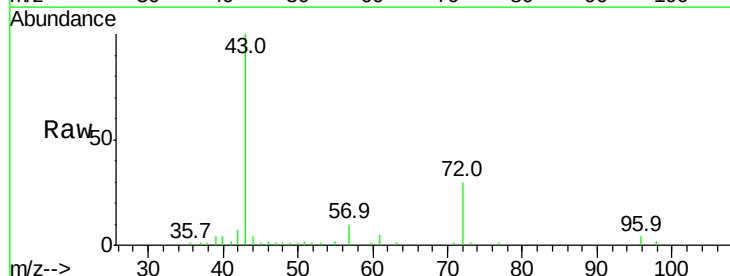
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

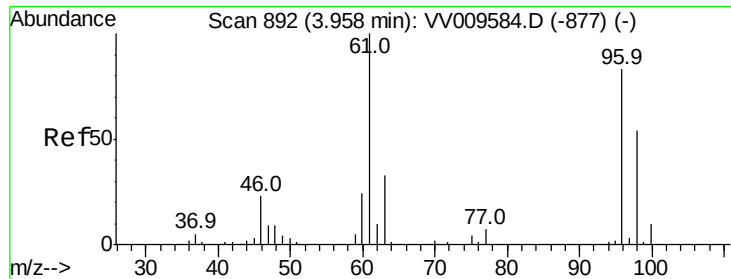
Tgt Ion: 63 Resp: 95849
 Ion Ratio Lower Upper
 63 100
 65 29.9 22.1 41.1
 83 14.9 10.2 19.0



#21
 2-Butanone
 Concen: 51.167 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.02 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Tgt Ion: 43 Resp: 43199
 Ion Ratio Lower Upper
 43 100
 72 29.0 13.7 41.0



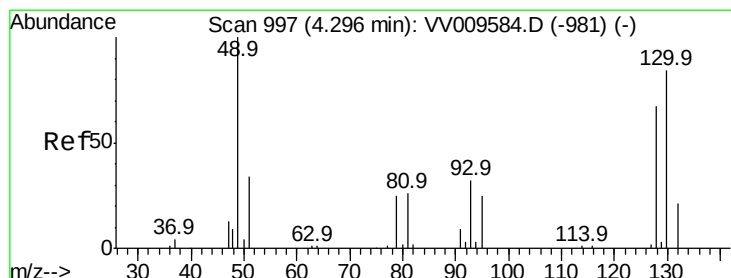
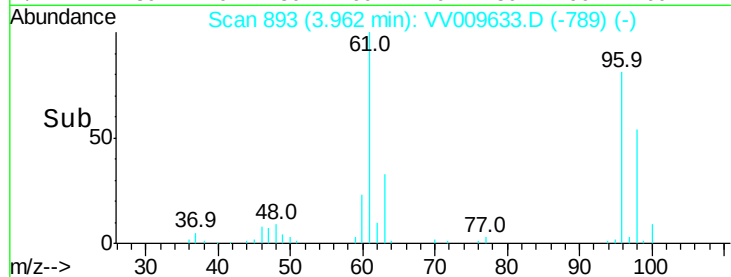
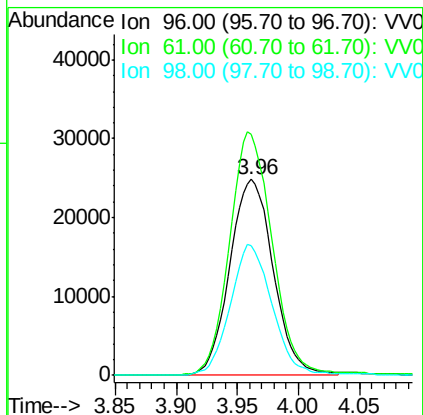
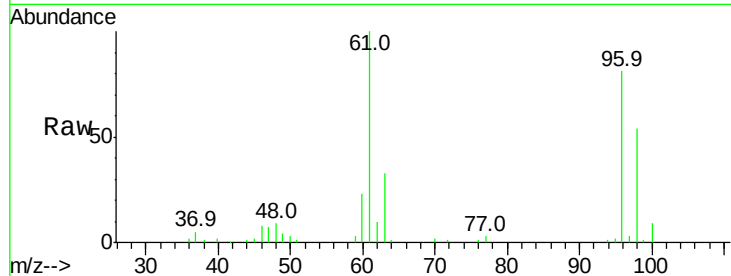


#22

cis-1,2-Dichloroethene
Concen: 28.424 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

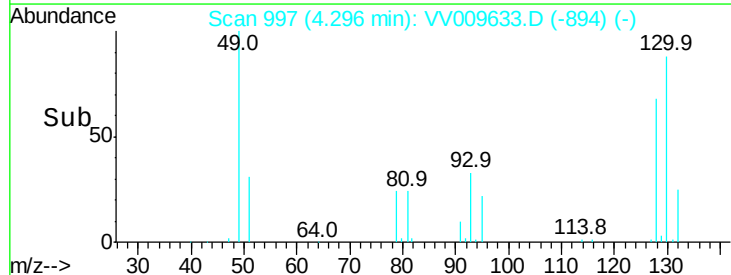
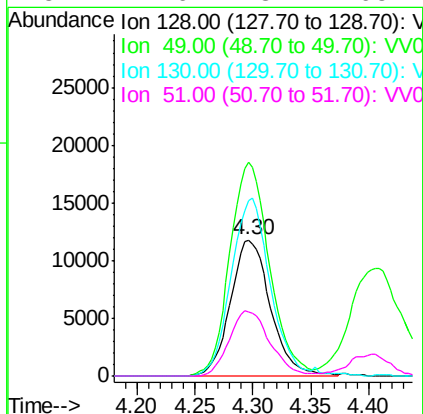
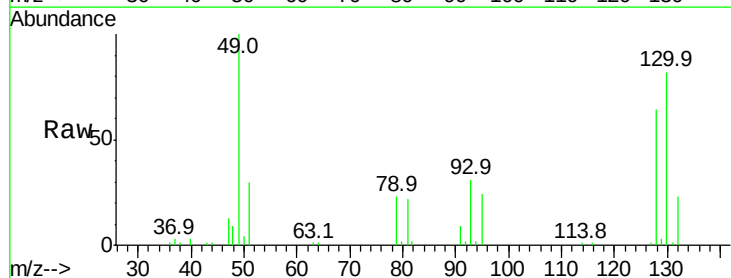
Tgt Ion: 96 Resp: 61466
Ion Ratio Lower Upper
96 100
61 123.1 87.2 161.9
98 66.4 44.6 82.8

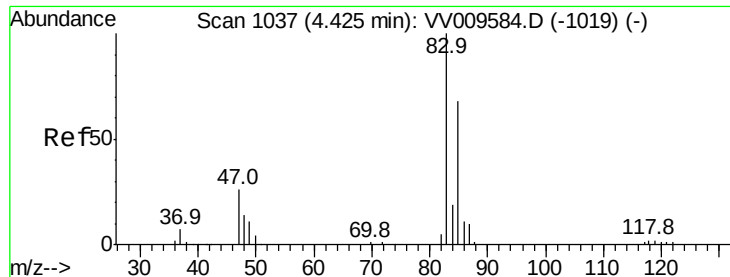


#23

Bromochloromethane
Concen: 28.475 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

Tgt Ion: 128 Resp: 28393
Ion Ratio Lower Upper
128 100
49 157.1 115.5 214.5
130 129.2 92.6 172.0
51 47.6 43.4 65.2

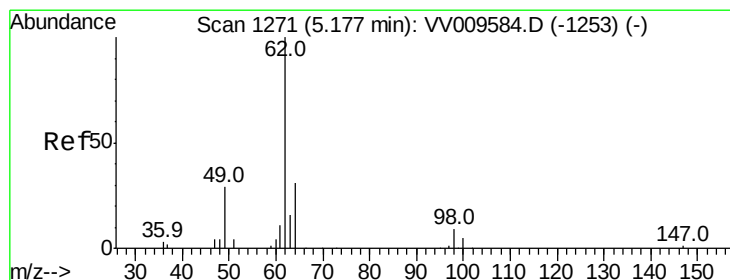
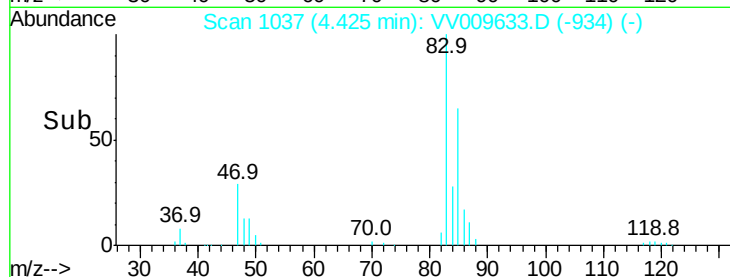
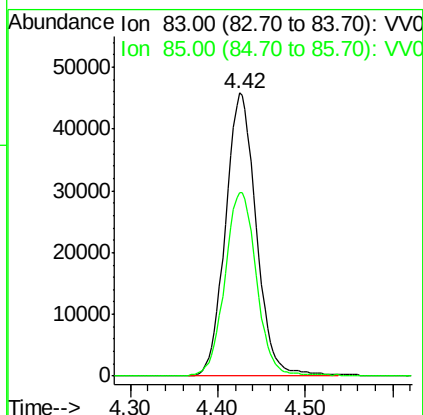
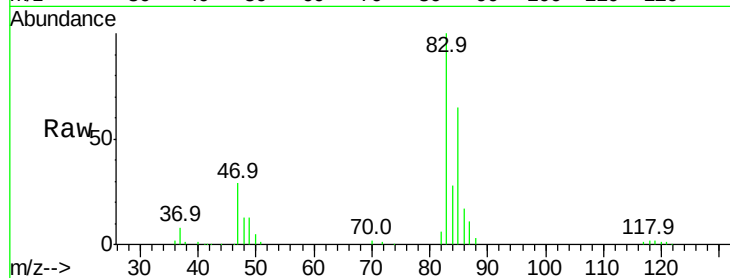




#25
Chloroform
Concen: 29.756 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

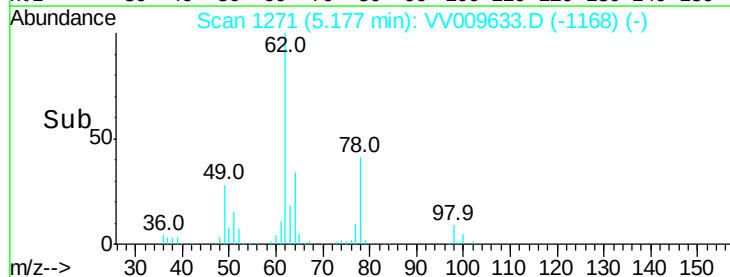
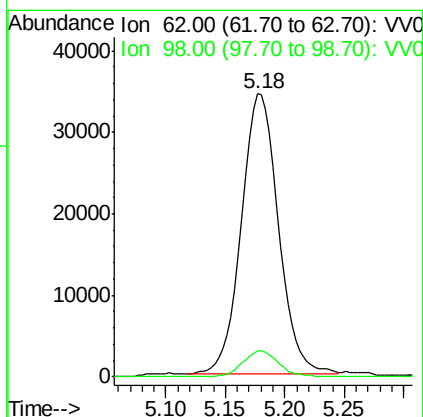
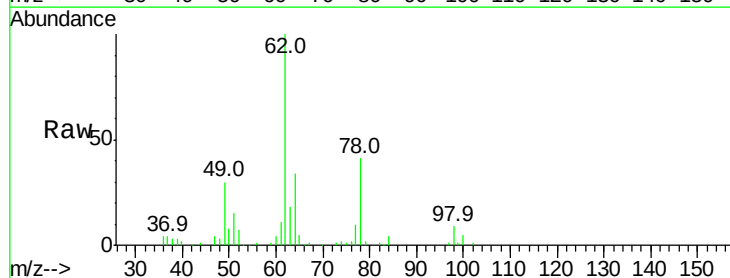
Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

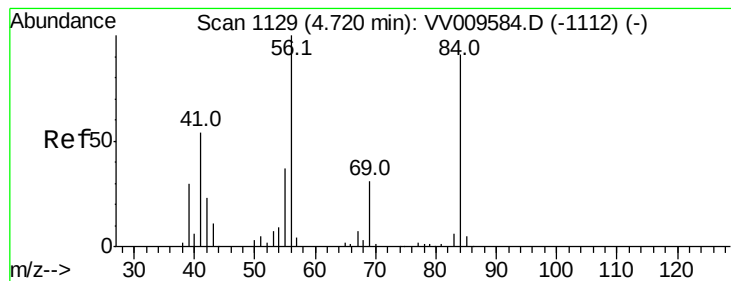
Tgt Ion: 83 Resp: 112080
Ion Ratio Lower Upper
83 100
85 66.3 45.4 84.2



#27
1,2-Dichloroethane
Concen: 28.383 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

Tgt Ion: 62 Resp: 74248
Ion Ratio Lower Upper
62 100
98 9.0 6.6 10.0





#30

Cyclohexane

Concen: 26.673 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

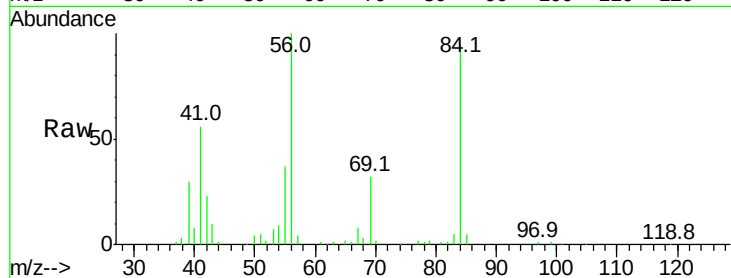
Tgt Ion: 56 Resp: 90523

Ion Ratio Lower Upper

56 100

69 31.7 24.9 37.3

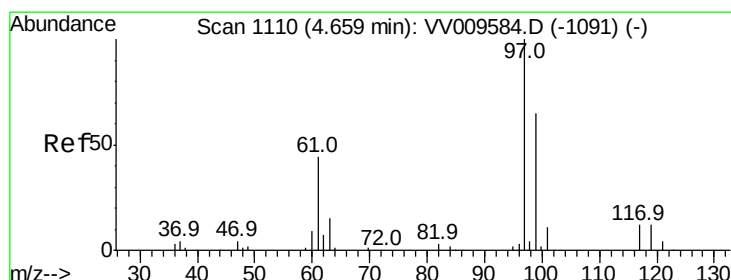
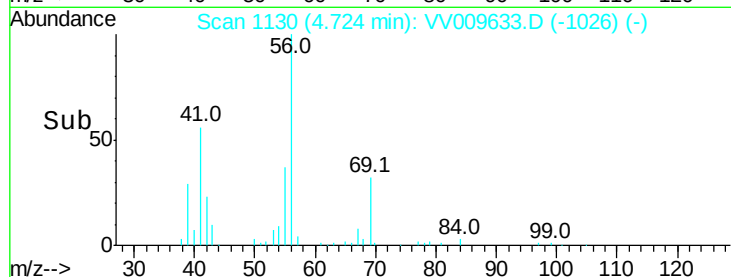
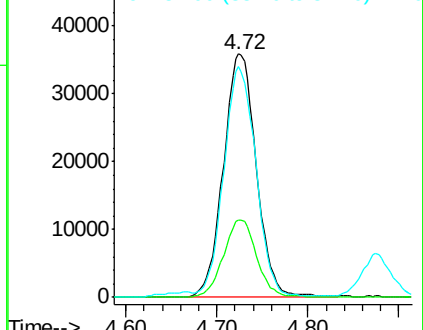
84 90.8 71.9 107.9



Abundance Ion 56.00 (55.70 to 56.70): VV009633.D (-1026) (-)

Ion 69.00 (68.70 to 69.70): VV009633.D (-1026) (-)

Ion 84.00 (83.70 to 84.70): VV009633.D (-1026) (-)



#31

1,1,1-Trichloroethane

Concen: 26.814 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

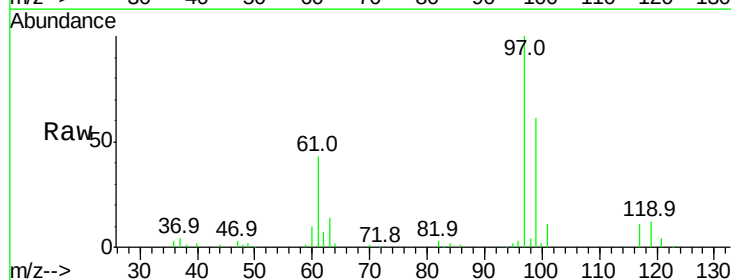
Tgt Ion: 97 Resp: 95856

Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.4

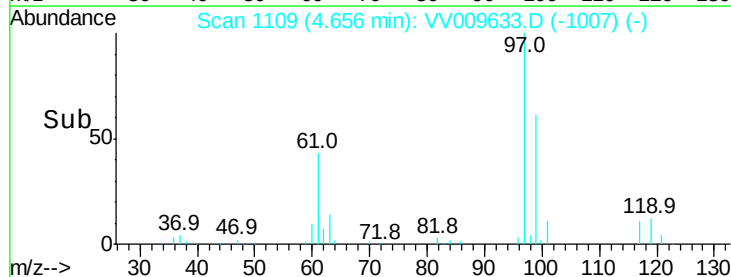
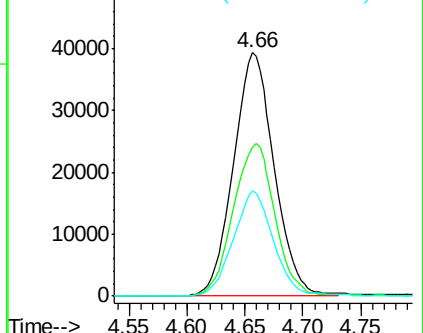
61 42.1 36.1 54.1

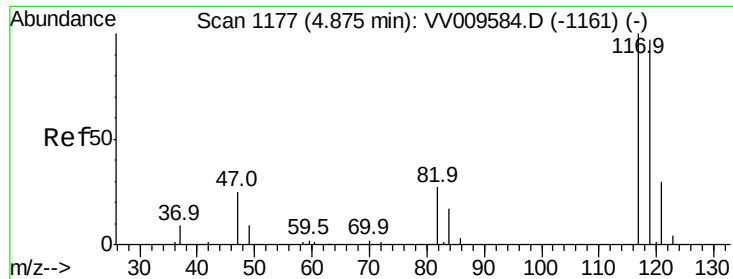


Abundance Ion 97.00 (96.70 to 97.70): VV009633.D (-1007) (-)

Ion 99.00 (98.70 to 99.70): VV009633.D (-1007) (-)

Ion 61.00 (60.70 to 61.70): VV009633.D (-1007) (-)





#32

Carbon tetrachloride

Concen: 26.659 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

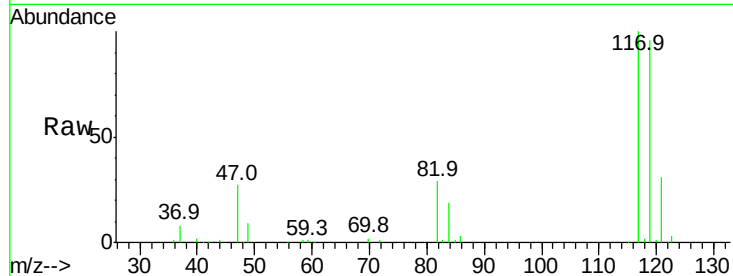
VSTD02580

Tgt Ion:117 Resp: 80571

Ion Ratio Lower Upper

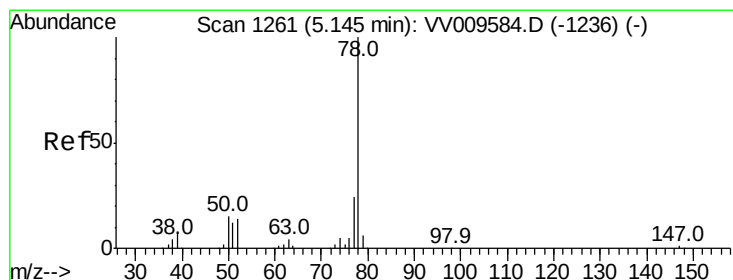
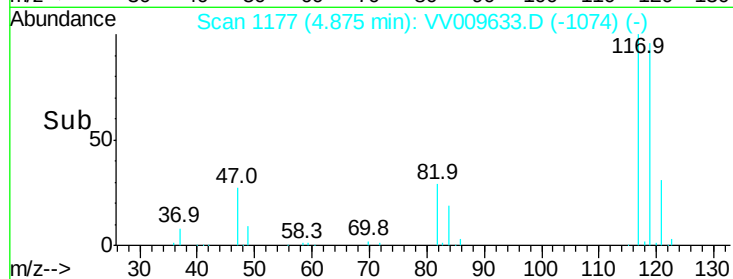
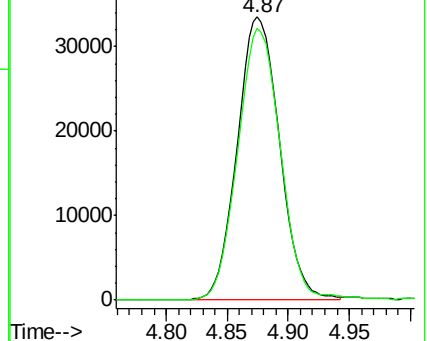
117 100

119 95.7 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.422 ug/L

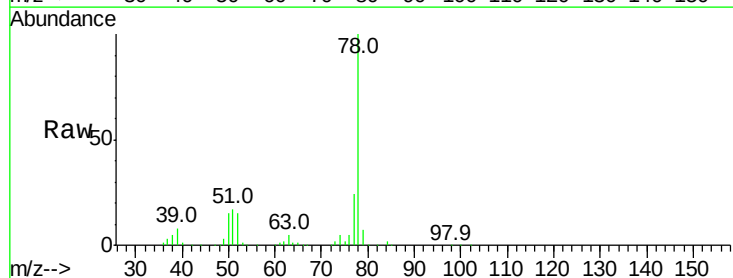
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

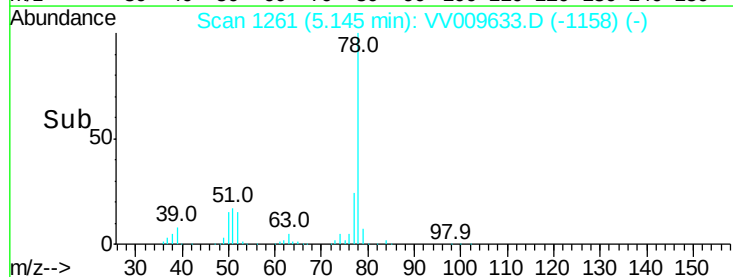
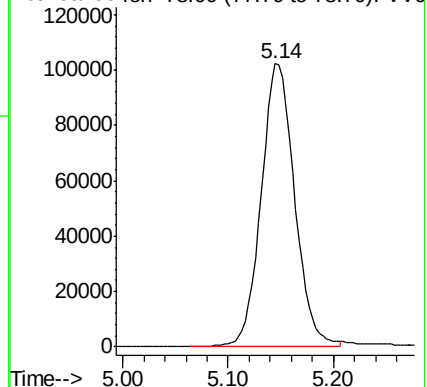
Lab File: VV009633.D

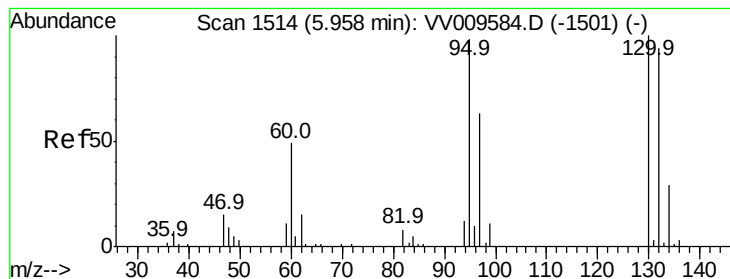
Acq: 13 Mar 2019 11:26

Tgt Ion: 78 Resp: 226583



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 26.574 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

Tgt Ion: 95 Resp: 63103

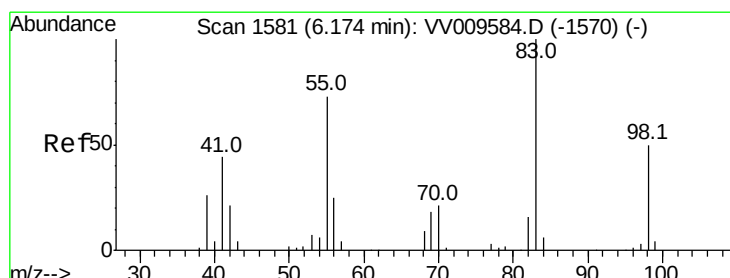
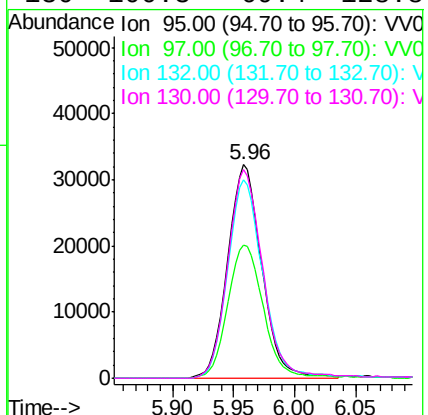
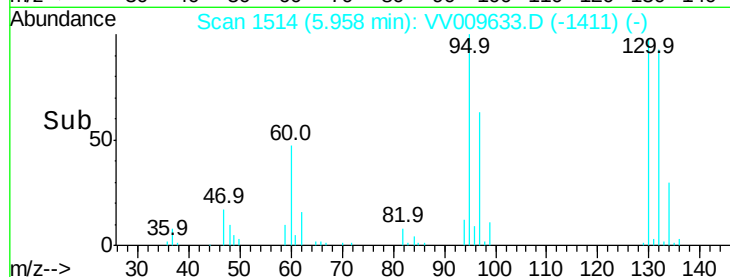
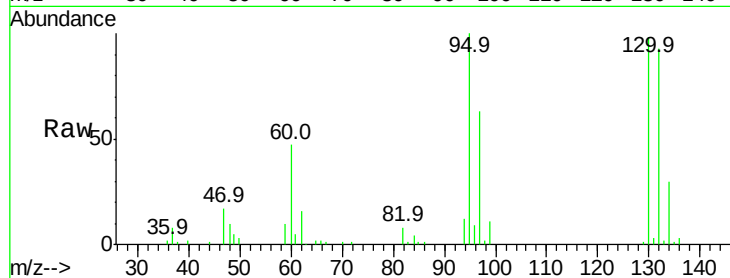
Ion Ratio Lower Upper

95 100

97 64.2 44.3 82.3

132 94.8 64.4 119.6

130 100.3 69.4 128.8



#36

Methylcyclohexane

Concen: 26.486 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

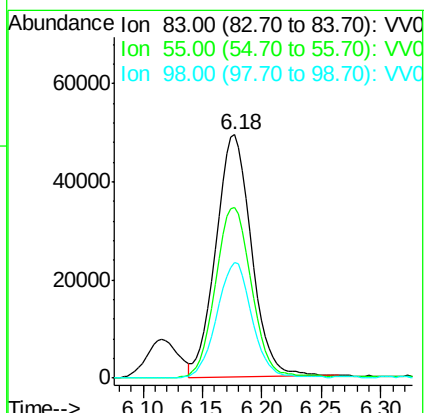
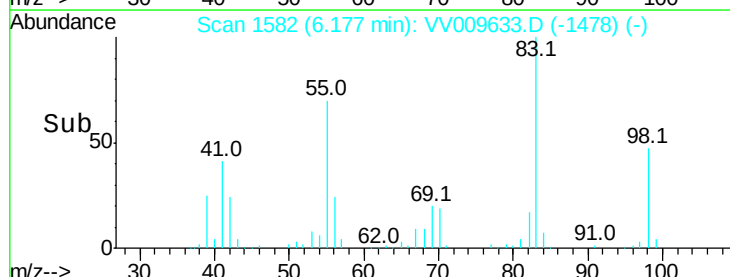
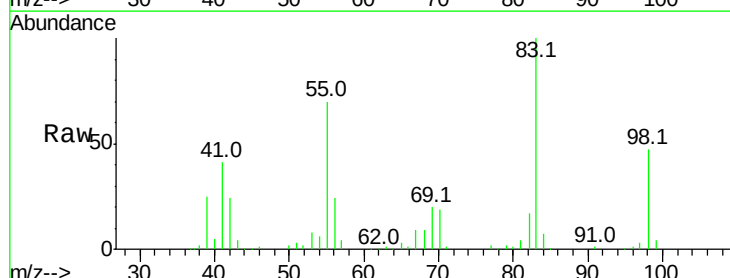
Tgt Ion: 83 Resp: 102457

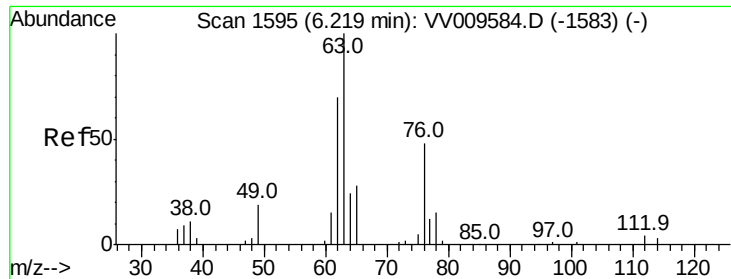
Ion Ratio Lower Upper

83 100

55 71.7 58.8 88.2

98 46.4 37.7 56.5

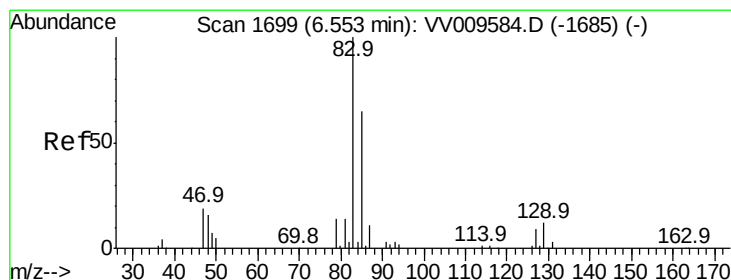
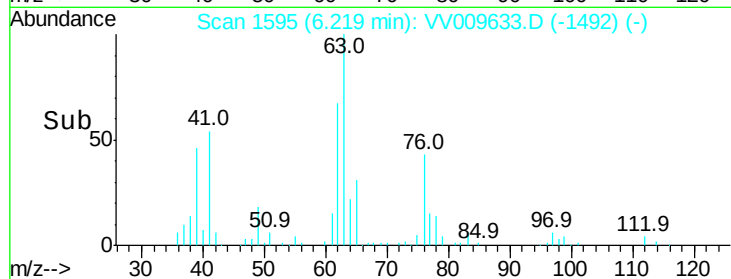
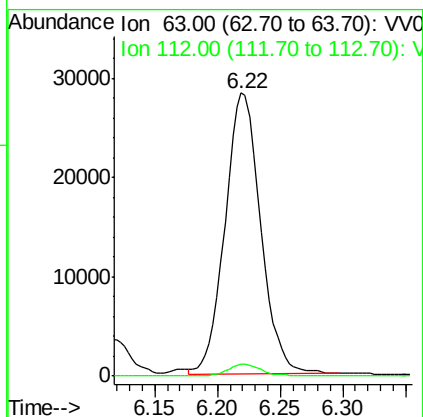
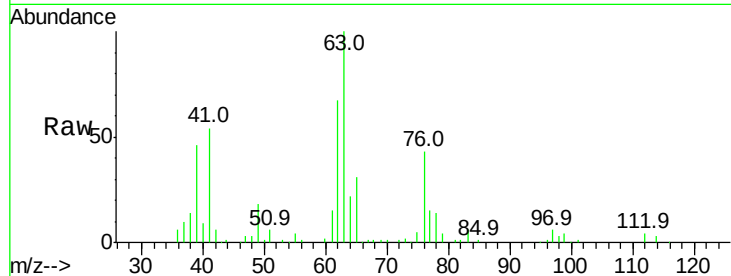




#40
 1,2-Dichloropropane
 Concen: 26.265 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

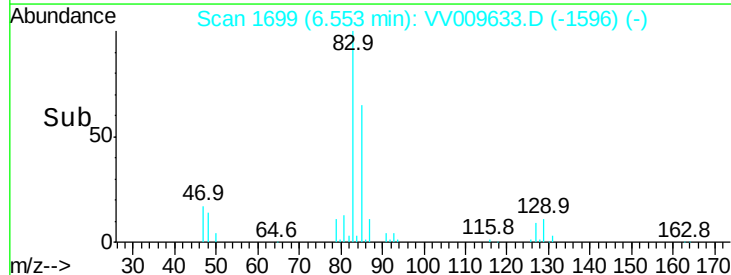
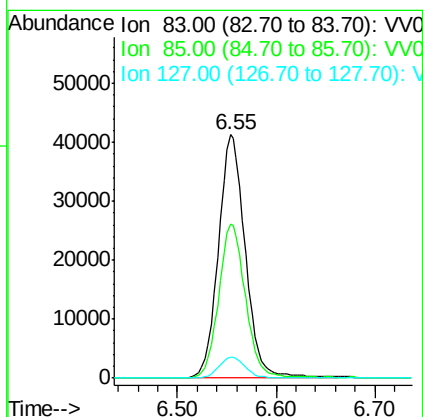
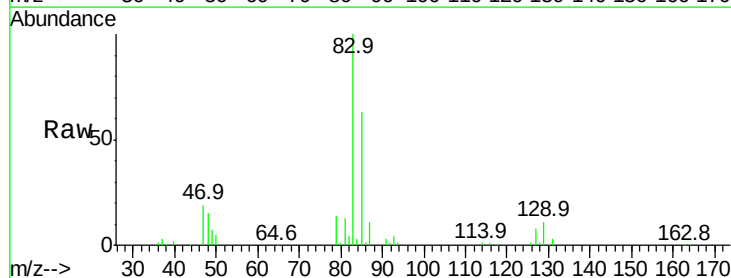
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

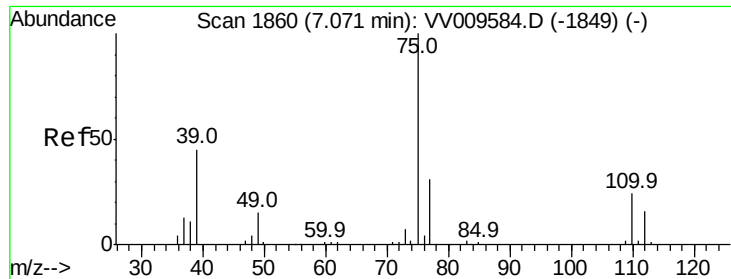
Tgt Ion: 63 Resp: 55959
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.4



#41
 Bromodichloromethane
 Concen: 27.498 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Tgt Ion: 83 Resp: 79075
 Ion Ratio Lower Upper
 83 100
 85 63.4 46.5 86.3
 127 8.4 7.2 10.8



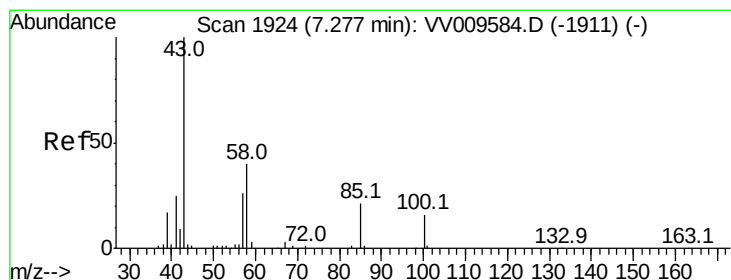
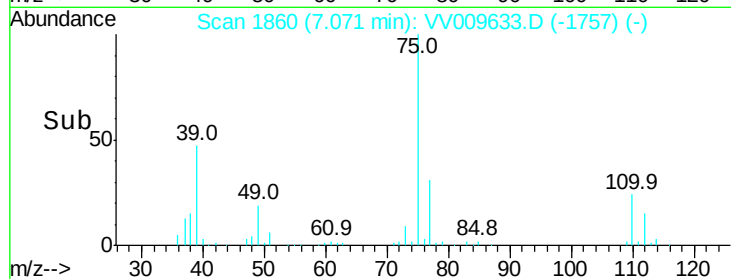
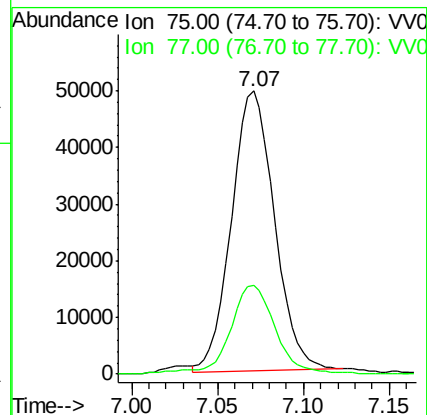
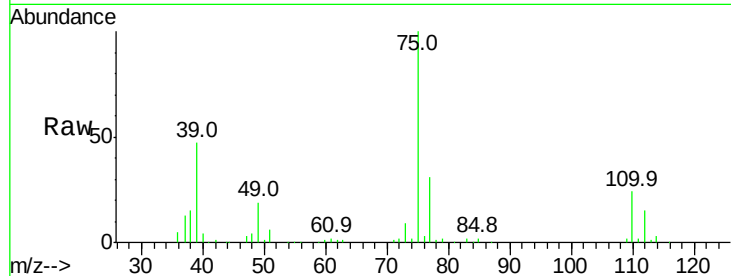


#42

cis-1,3-Dichloropropene
 Concen: 26.141 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02580

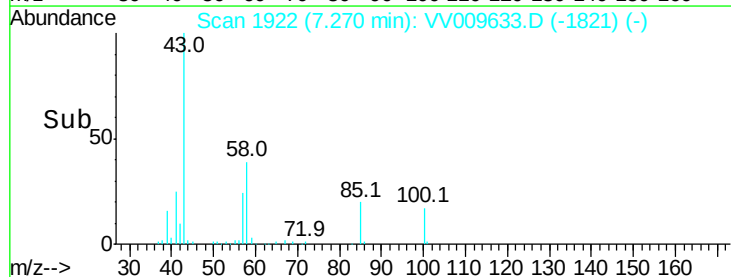
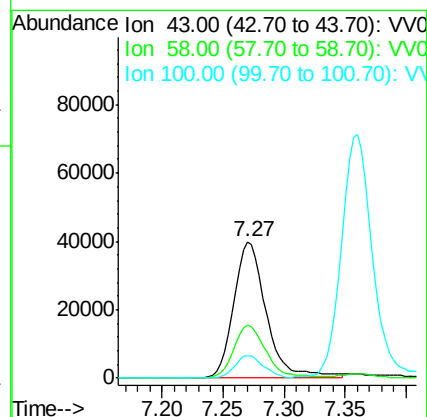
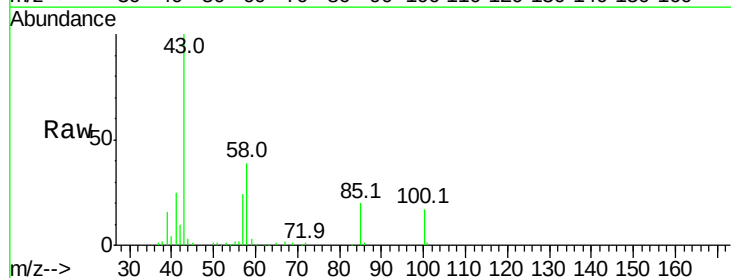
Tgt Ion: 75 Resp: 86465
 Ion Ratio Lower Upper
 75 100
 77 31.4 21.4 39.8

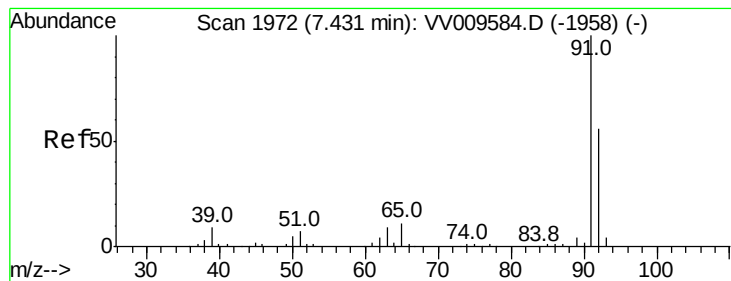


#43

4-Methyl-2-pentanone
 Concen: 44.404 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.01 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Tgt Ion: 43 Resp: 74576
 Ion Ratio Lower Upper
 43 100
 58 38.6 31.9 47.9
 100 14.7 12.8 19.2





#44

Toluene

Concen: 27.749 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

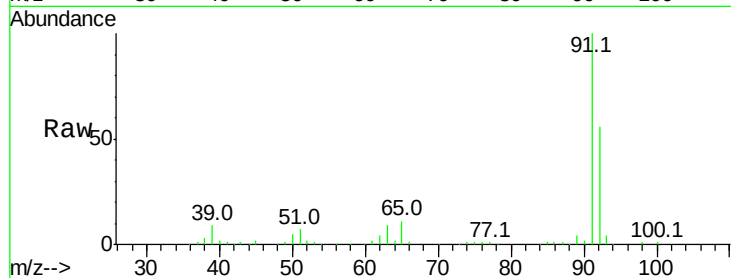
VSTD02580

Tgt Ion: 91 Resp: 259181

Ion Ratio Lower Upper

91 100

92 56.5 39.6 73.6



Abundance Ion 91.00 (90.70 to 91.70): VV009584.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009584.D (-1958) (-)

7.43

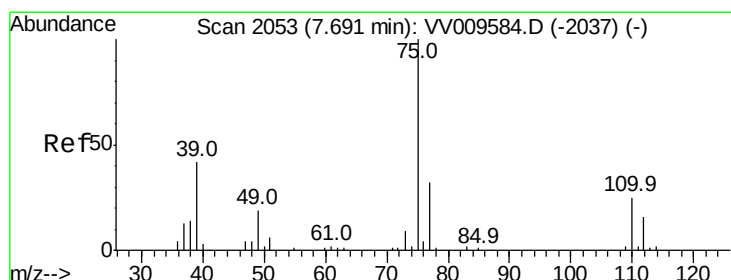
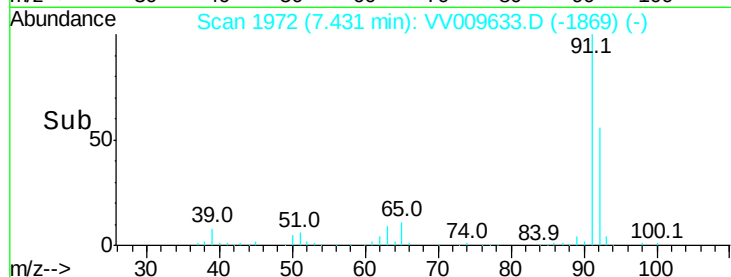
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.033 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009633.D

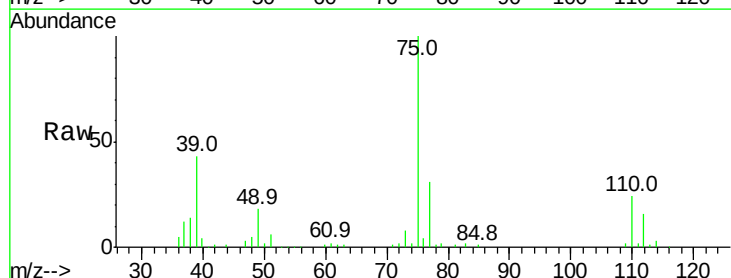
Acq: 13 Mar 2019 11:26

Tgt Ion: 75 Resp: 75201

Ion Ratio Lower Upper

75 100

77 31.4 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VV009584.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009584.D (-2037) (-)

7.69

50000

40000

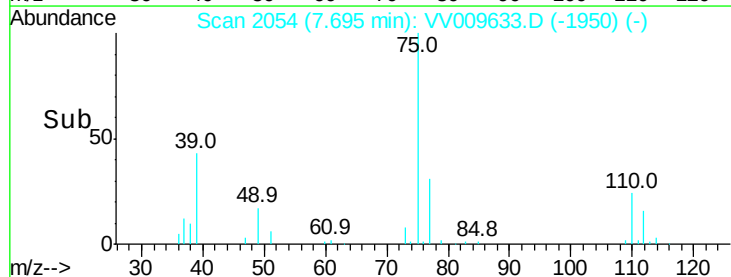
30000

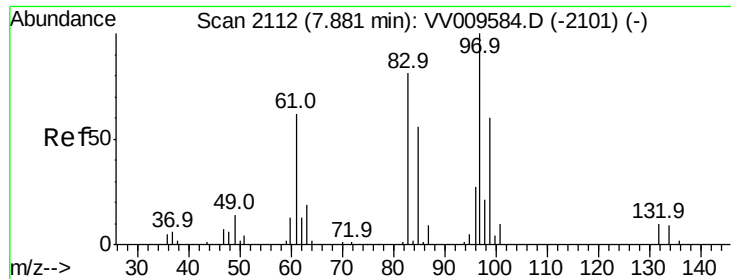
20000

10000

0

Time-->

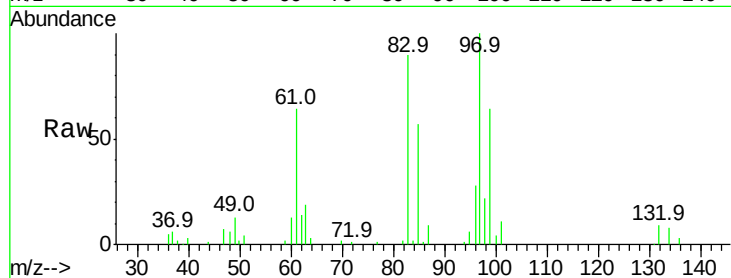




#46
 1,1,2-Trichloroethane
 Concen: 26.149 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

Tgt Ion:	97	Resp:	46284
Ion	Ratio	Lower	Upper
97	100		
83	89.8	63.8	118.6
85	57.1	39.5	73.4
99	64.1	45.9	85.3

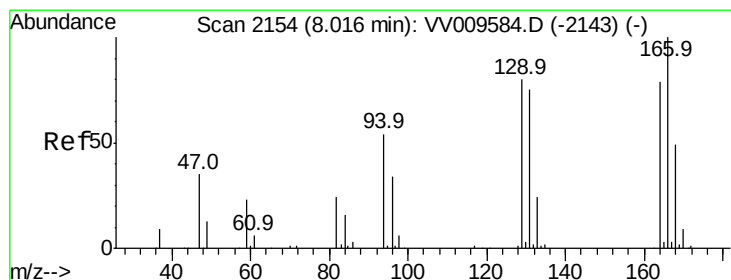
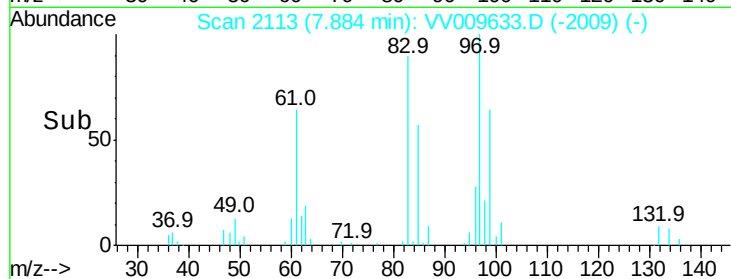
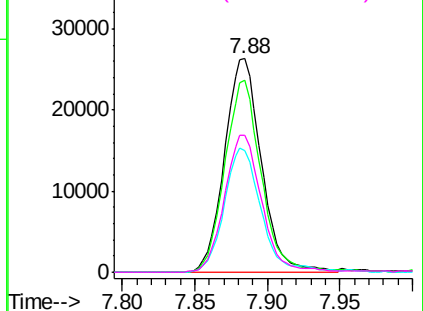


Abundance Ion 97.00 (96.70 to 97.70): VV009584.D (-2101) (-)

Ion 83.00 (82.70 to 83.70): VV009584.D (-2101) (-)

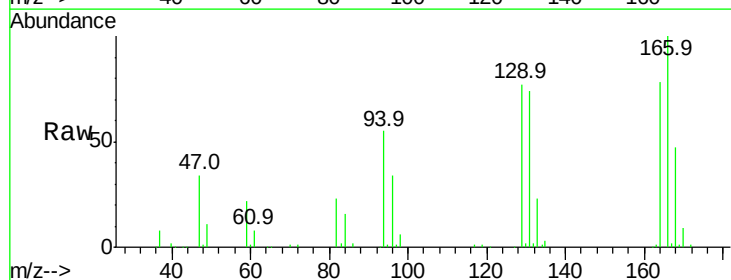
Ion 85.00 (84.70 to 85.70): VV009584.D (-2101) (-)

Ion 99.00 (98.70 to 99.70): VV009584.D (-2101) (-)



#47
 Tetrachloroethene
 Concen: 27.741 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Tgt Ion:	164	Resp:	49965
Ion	Ratio	Lower	Upper
164	100		
129	98.5	67.7	125.7
131	93.9	67.5	125.3
166	127.7	81.6	151.6

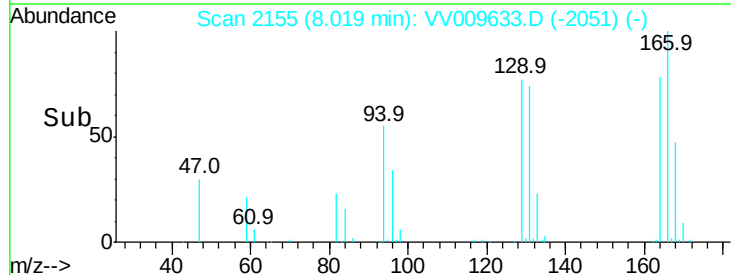
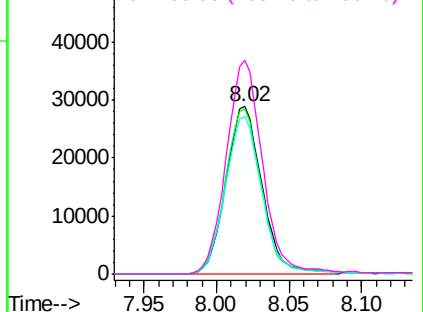


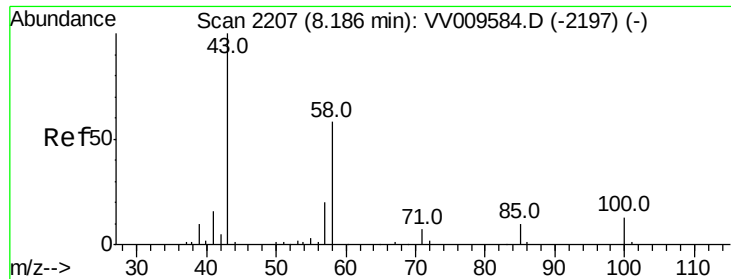
Abundance Ion 164.00 (163.70 to 164.70): VV009584.D (-2143) (-)

Ion 129.00 (128.70 to 129.70): VV009584.D (-2143) (-)

Ion 131.00 (130.70 to 131.70): VV009584.D (-2143) (-)

Ion 166.00 (165.70 to 166.70): VV009584.D (-2143) (-)

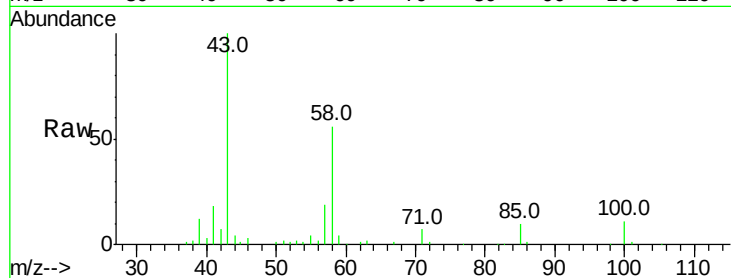




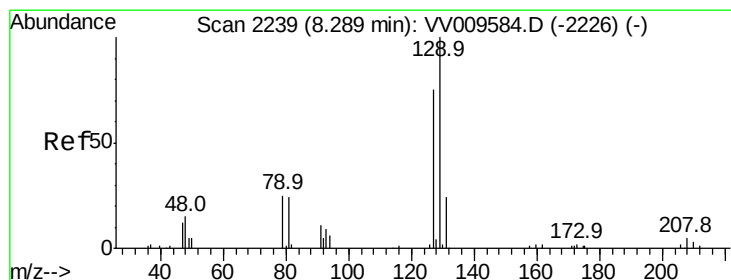
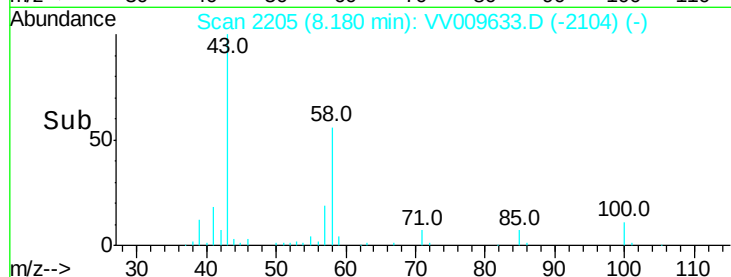
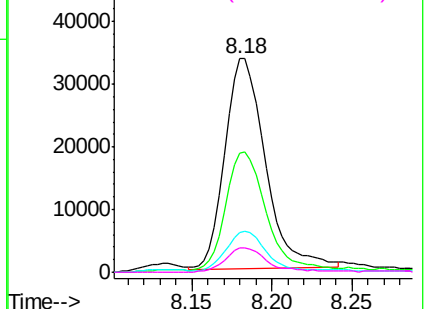
#49
2-Hexanone
Concen: 45.722 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.01 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

Tgt Ion:	43	Resp:	58066
Ion	Ratio	Lower	Upper
43	100		
58	56.1	46.3	69.5
57	18.1	15.8	23.6
100	11.6	10.0	15.0

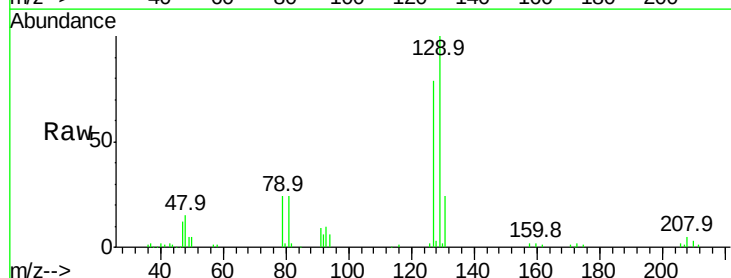


Abundance Ion 43.00 (42.70 to 43.70): VV009633.D (-2104) (-)

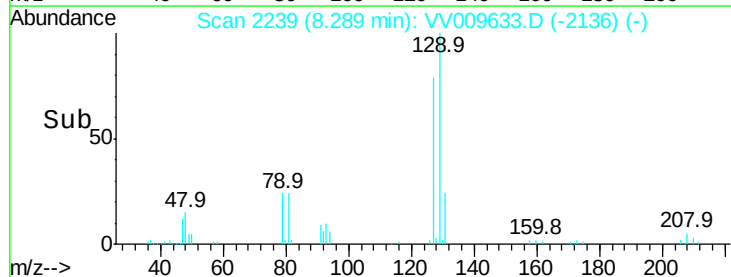
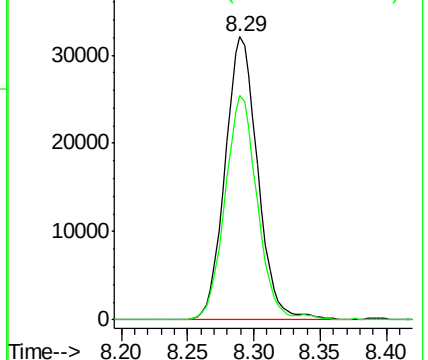


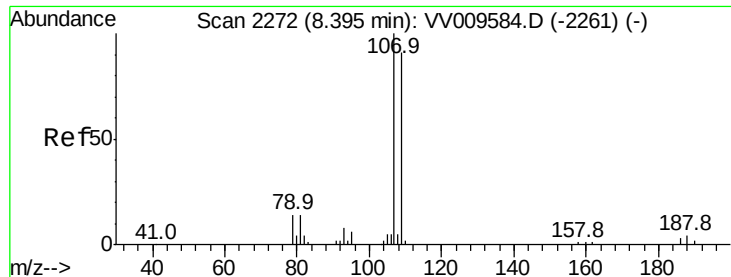
#50
Dibromochloromethane
Concen: 25.669 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

Tgt Ion:	129	Resp:	55006
Ion	Ratio	Lower	Upper
129	100		
127	79.1	53.7	99.7



Abundance Ion 129.00 (128.70 to 129.70): VV009633.D (-2136) (-)





#51

1,2-Dibromoethane

Concen: 25.840 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

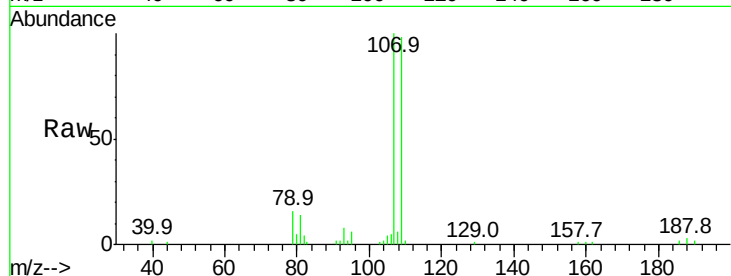
Tgt Ion:107 Resp: 47256

Ion Ratio Lower Upper

107 100

109 97.7 65.6 121.8

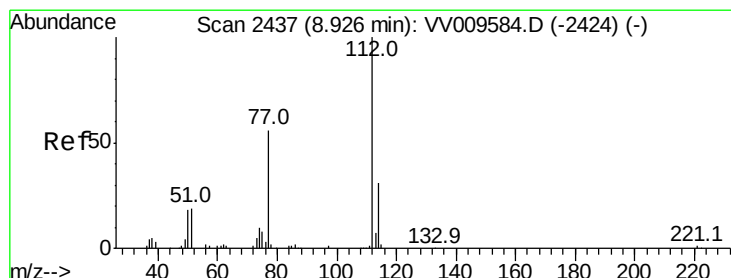
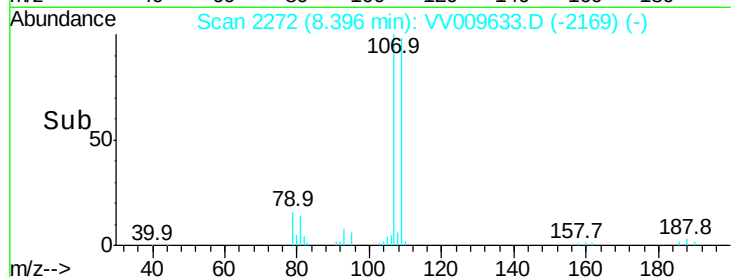
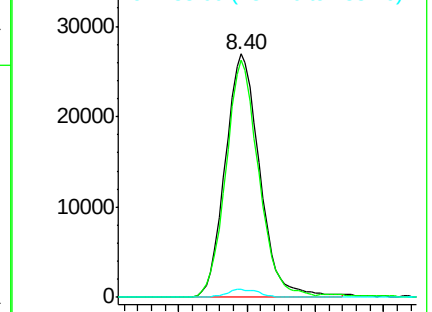
188 3.2 2.3 3.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 27.041 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

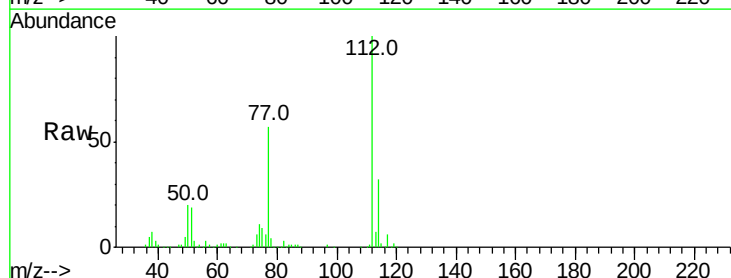
Tgt Ion:112 Resp: 167409

Ion Ratio Lower Upper

112 100

77 57.0 45.0 67.6

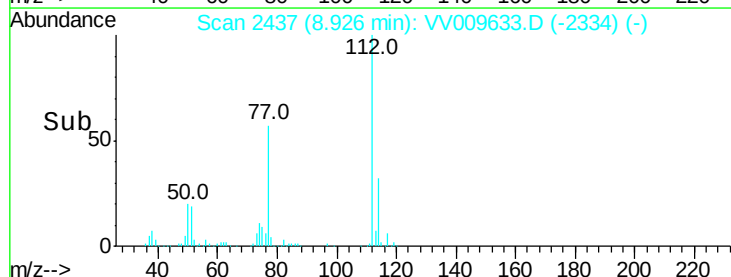
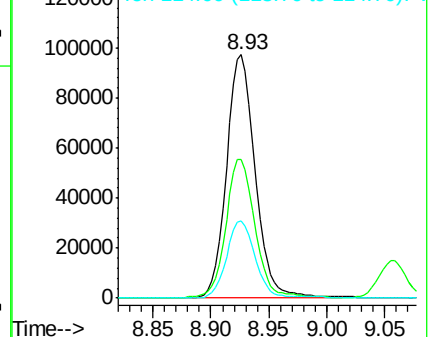
114 31.9 22.9 42.5

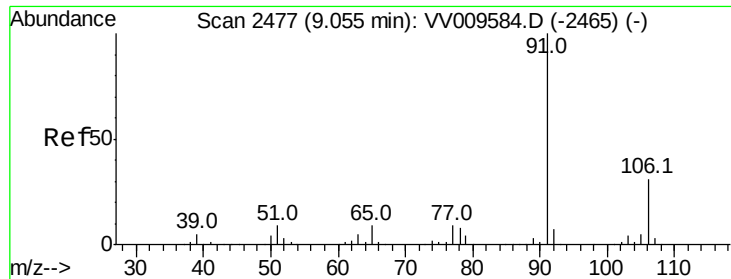


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

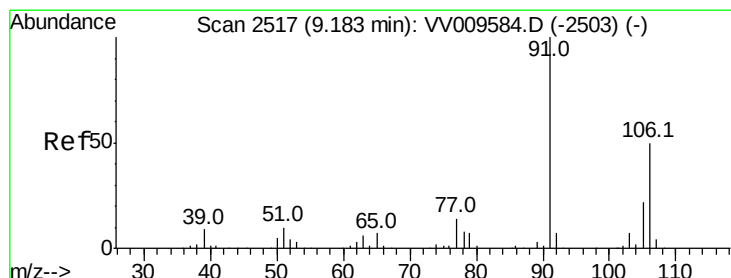
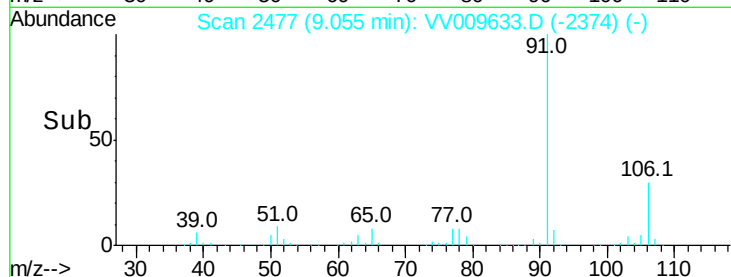
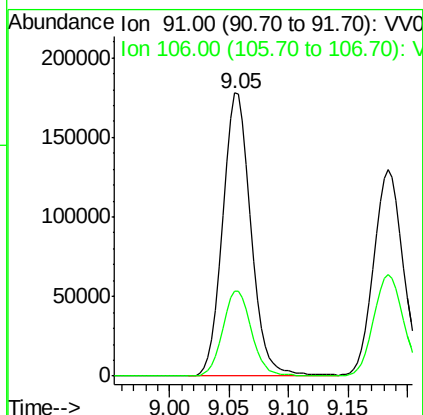
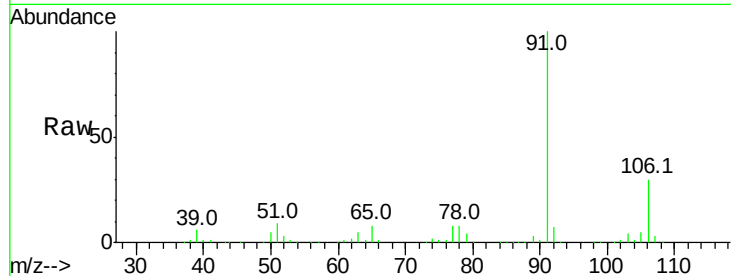




#53
Ethylbenzene
Concen: 27.500 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

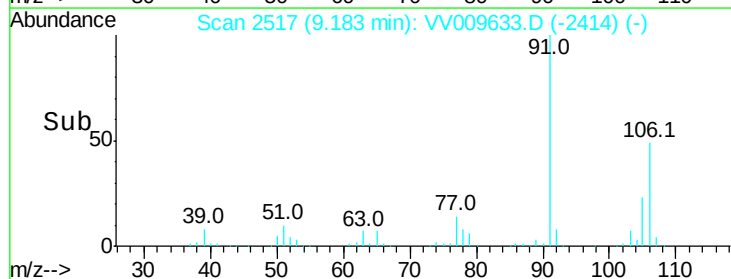
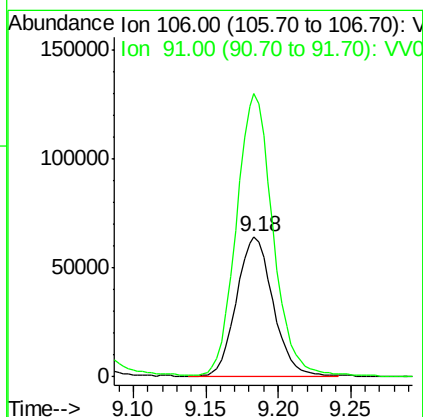
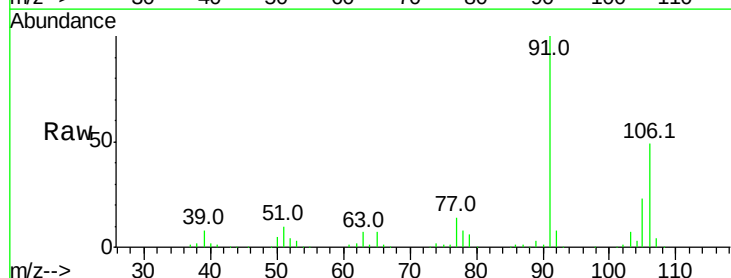
Instrument :
MSVOA_V
ClientSampleId :
VSTD02580

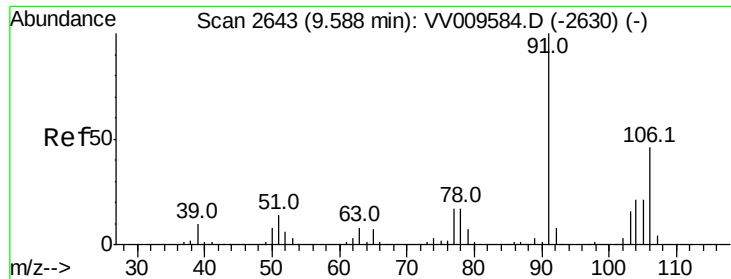
Tgt Ion: 91 Resp: 293919
Ion Ratio Lower Upper
91 100
106 30.1 23.0 42.6



#54
m,p-Xylene
Concen: 27.744 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV009633.D
Acq: 13 Mar 2019 11:26

Tgt Ion: 106 Resp: 112230
Ion Ratio Lower Upper
106 100
91 202.0 138.5 257.1





#55

o-xylene

Concen: 27.896 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

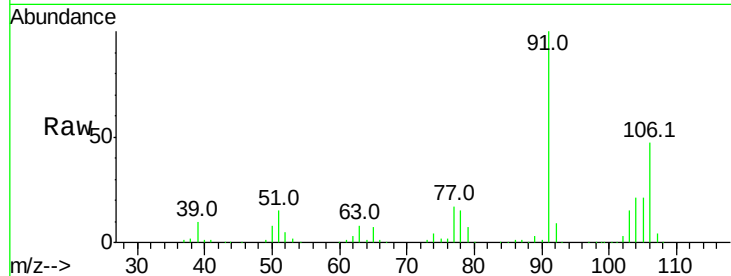
VSTD02580

Tgt Ion:106 Resp: 108814

Ion Ratio Lower Upper

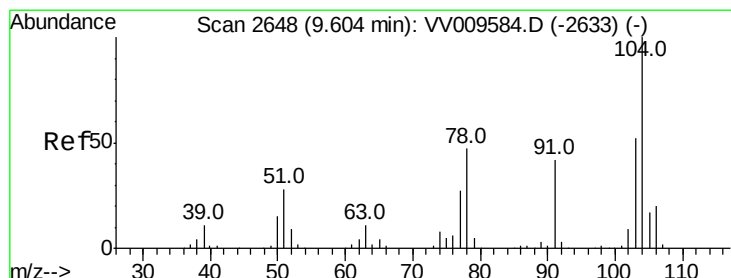
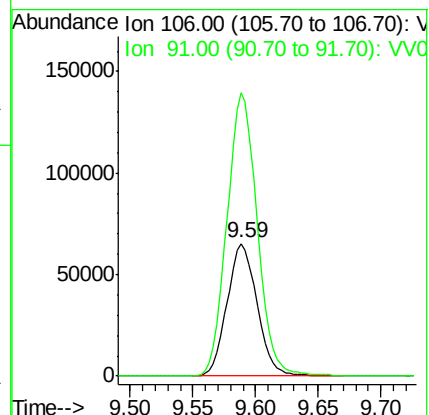
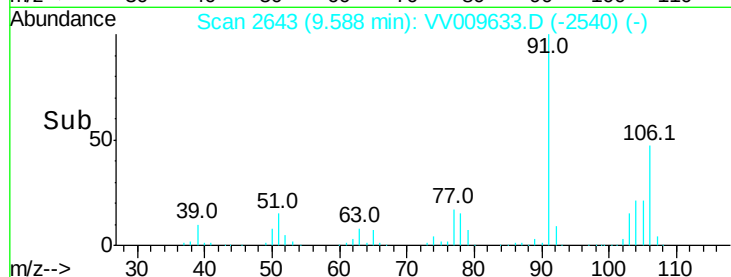
106 100

91 213.9 143.8 267.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 28.315 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009633.D

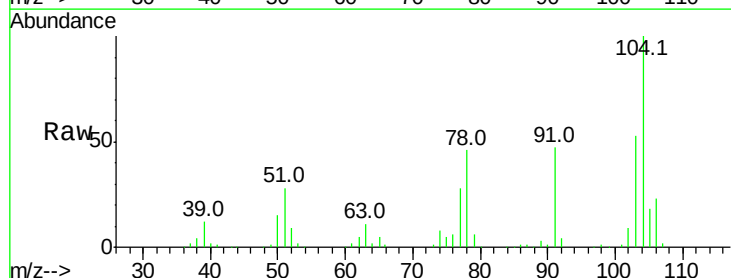
Acq: 13 Mar 2019 11:26

Tgt Ion:104 Resp: 181706

Ion Ratio Lower Upper

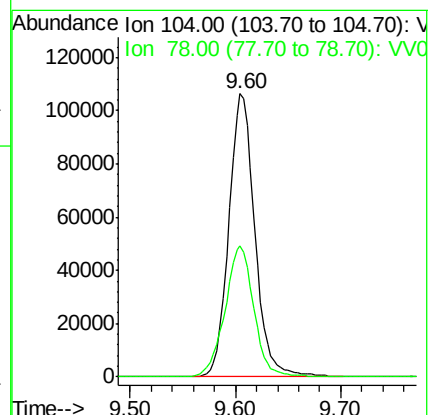
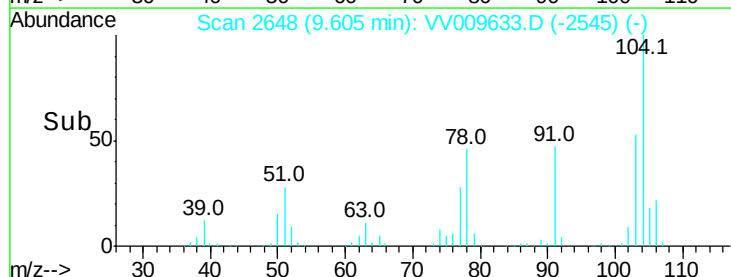
104 100

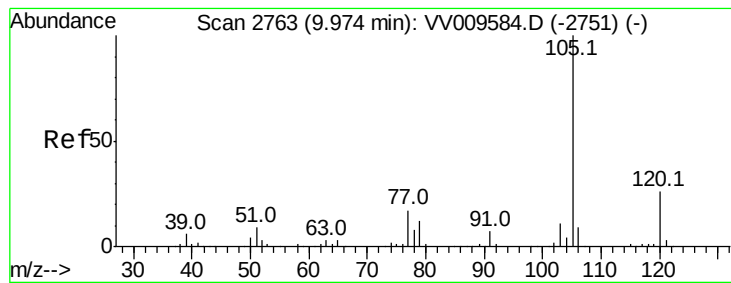
78 46.1 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.815 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

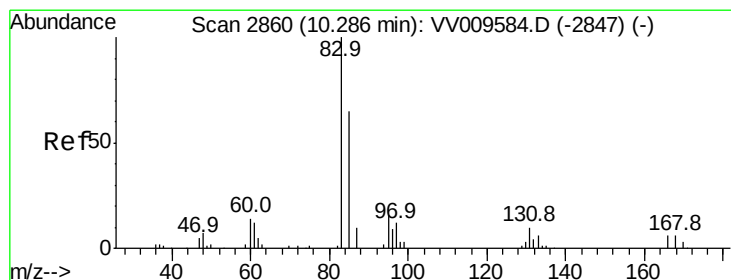
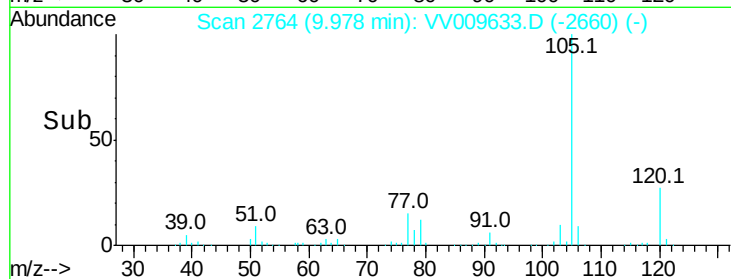
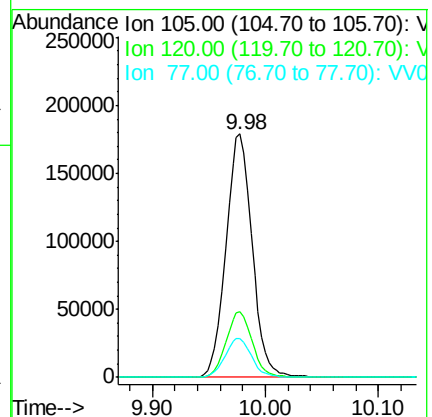
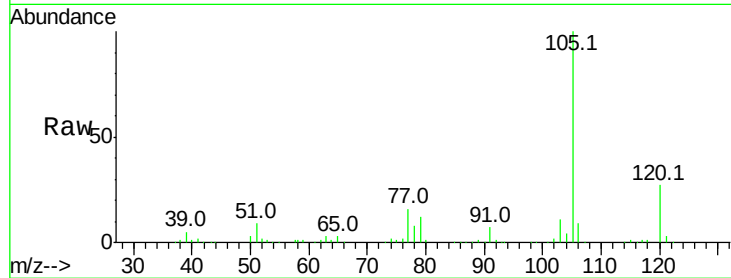
Tgt Ion:105 Resp: 288509

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.2

77 16.1 12.8 19.2



#58

1,1,2,2-Tetrachloroethane

Concen: 24.389 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

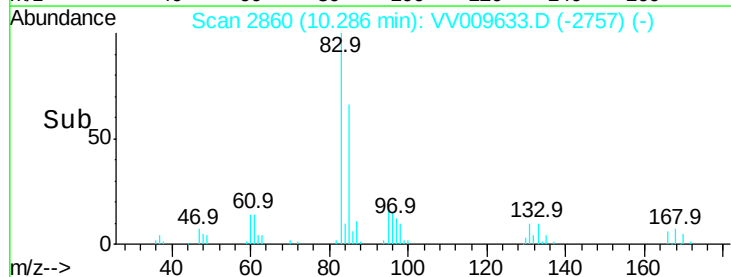
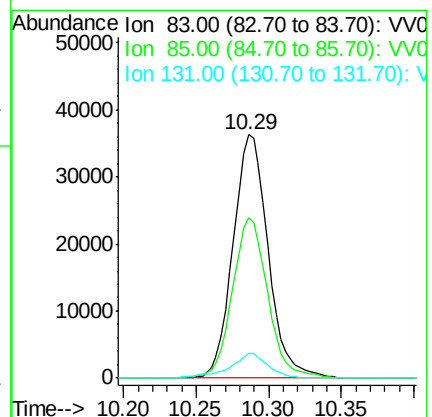
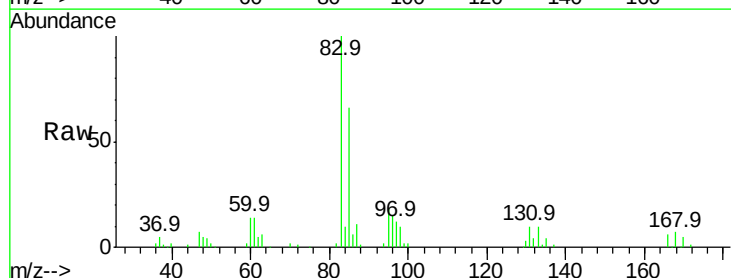
Tgt Ion: 83 Resp: 60956

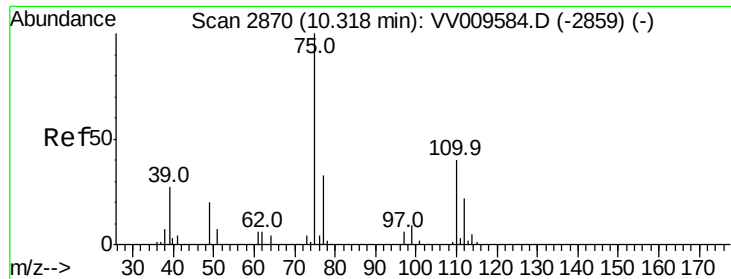
Ion Ratio Lower Upper

83 100

85 65.9 44.7 83.1

131 10.0 7.0 10.6

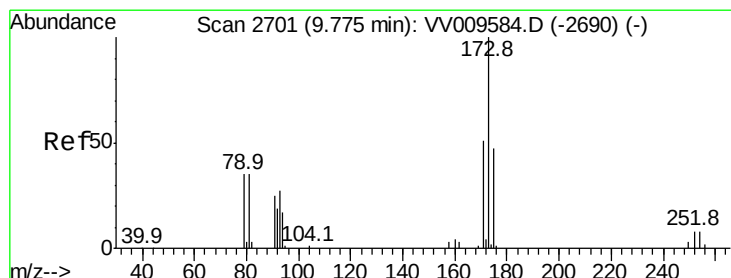
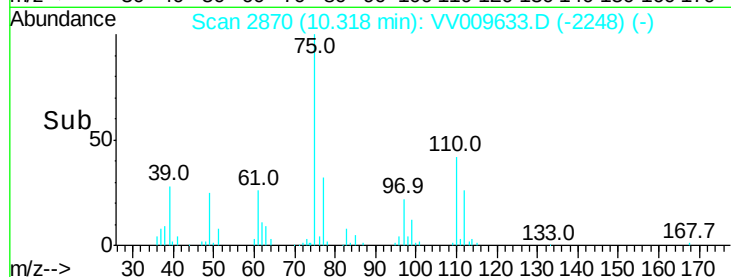
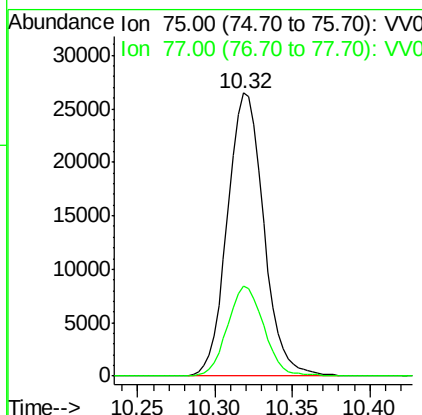
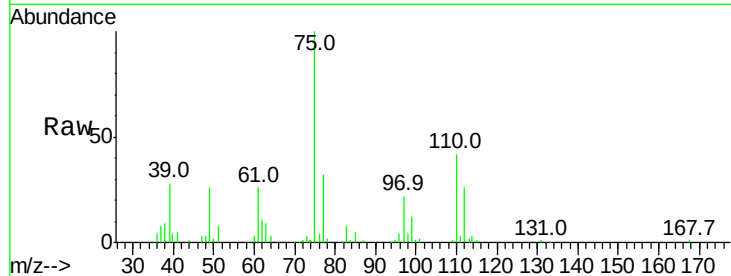




#59
 1,2,3-Trichloropropane
 Concen: 23.999 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

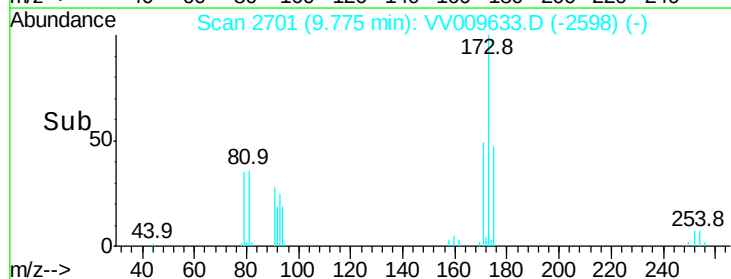
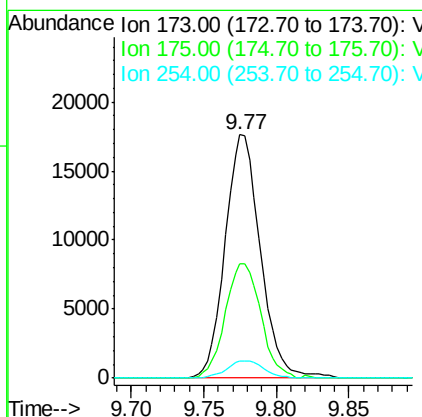
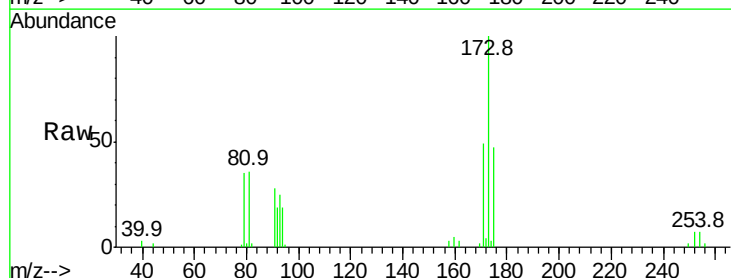
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

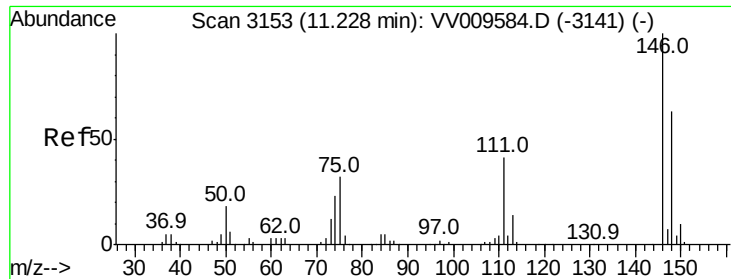
Tgt Ion: 75 Resp: 43239
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.9 38.9



#62
 Bromoform
 Concen: 24.438 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Tgt Ion: 173 Resp: 29709
 Ion Ratio Lower Upper
 173 100
 175 47.2 38.8 58.2
 254 7.6 5.8 8.8

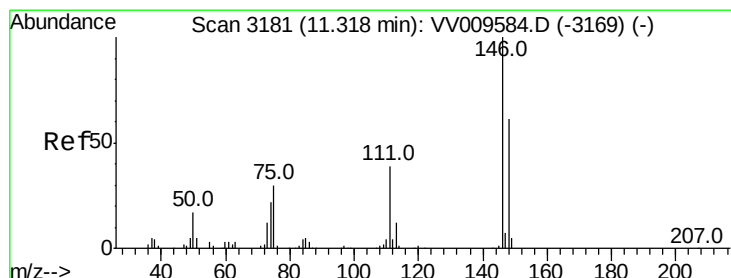
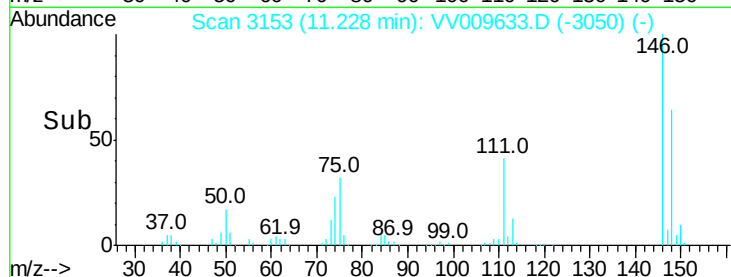
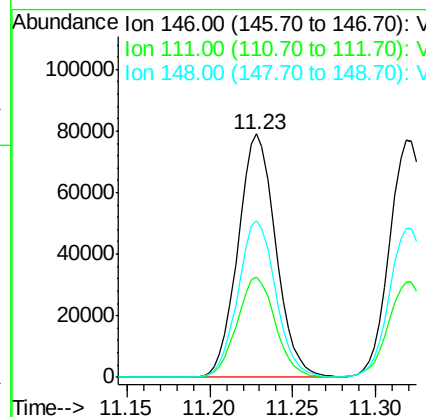
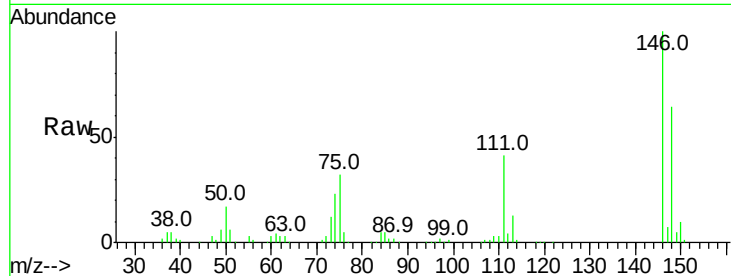




#63
 1,3-Dichlorobenzene
 Concen: 26.901 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

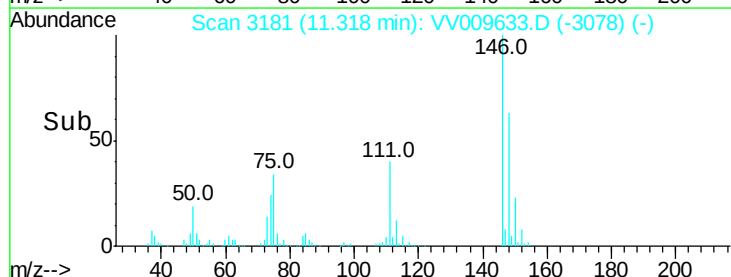
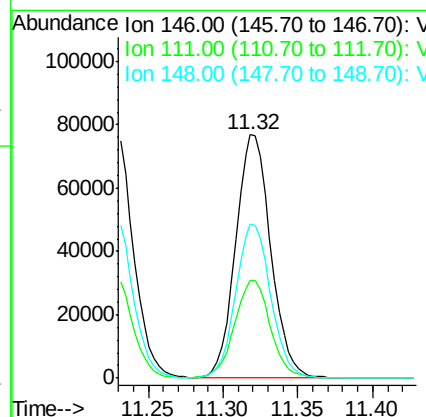
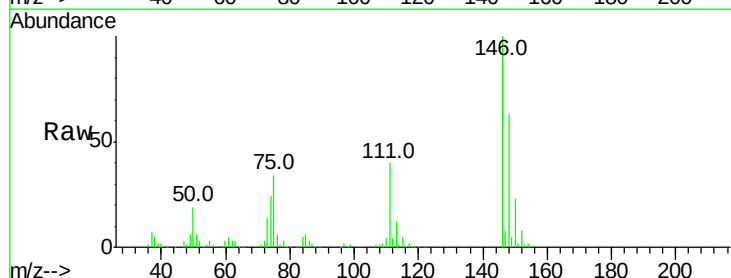
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

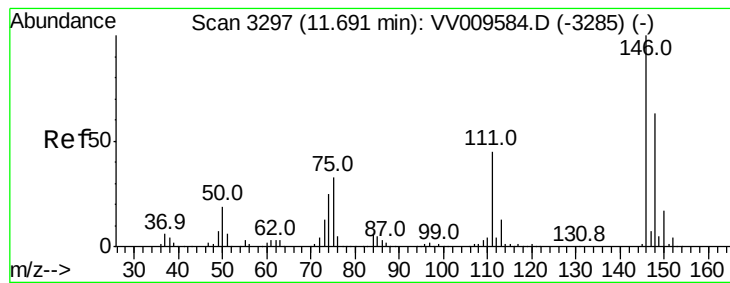
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	29.6	55.0
148	64.4	44.8	83.2



#64
 1,4-Dichlorobenzene
 Concen: 26.280 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	29.2	54.2
148	63.1	43.0	79.8





#65

1,2-Dichlorobenzene

Concen: 27.280 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

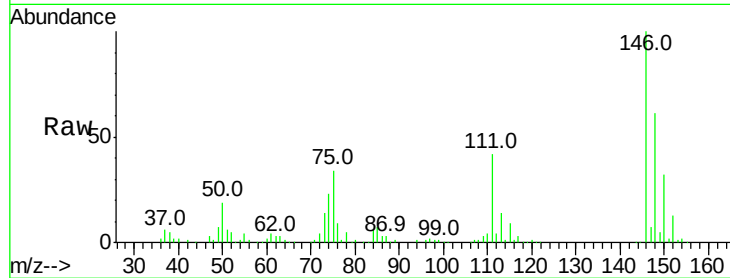
Tgt Ion:146 Resp: 119052

Ion Ratio Lower Upper

146 100

111 42.2 35.4 53.0

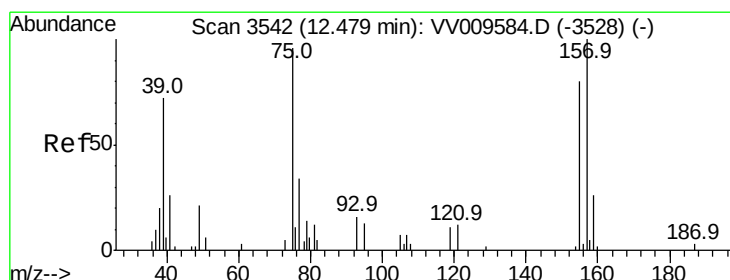
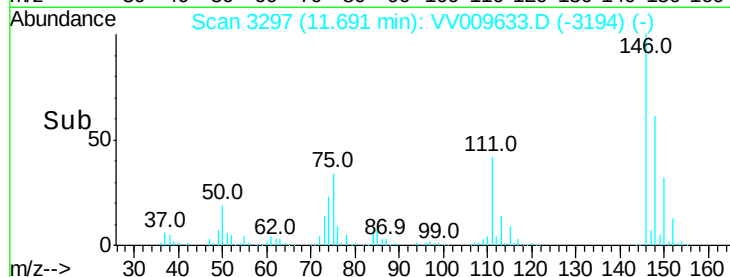
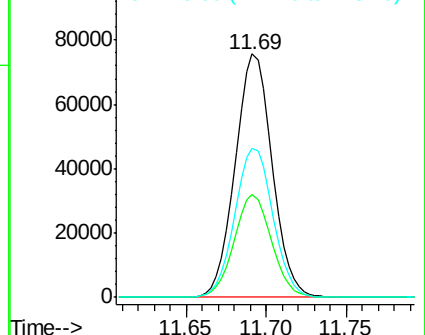
148 61.4 50.6 76.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.327 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

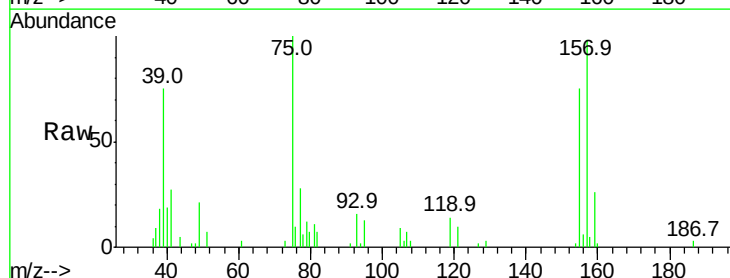
Tgt Ion: 75 Resp: 8448

Ion Ratio Lower Upper

75 100

157 98.3 81.0 121.4

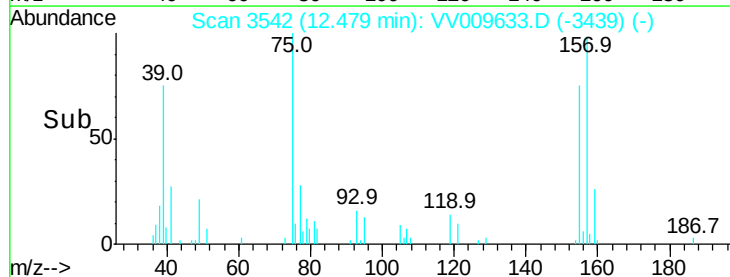
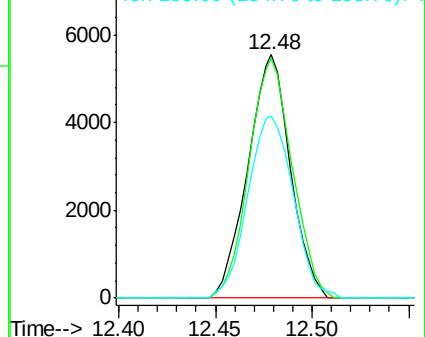
155 75.0 61.2 91.8

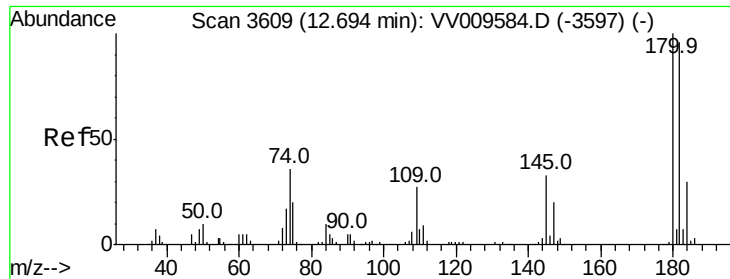


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

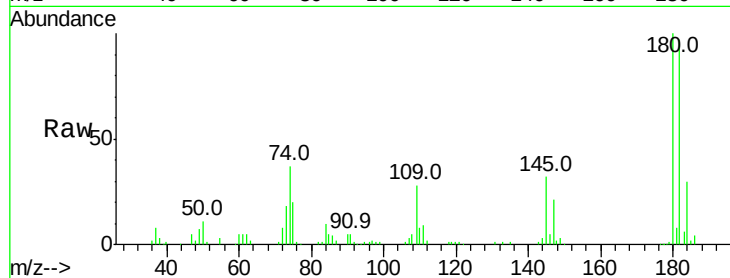




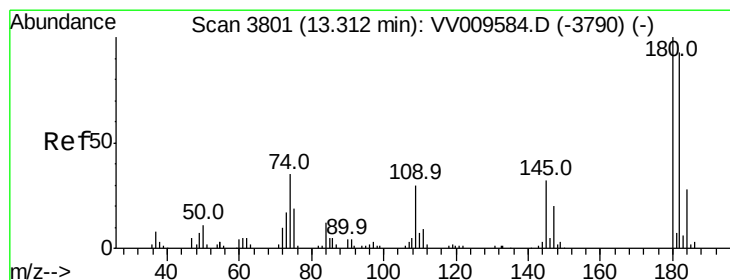
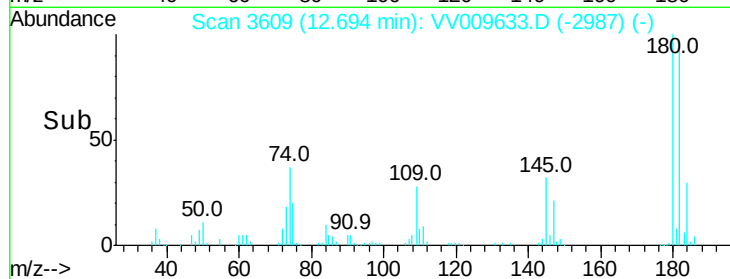
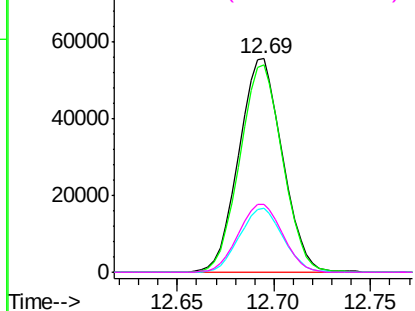
#67
 1,3,5-Trichlorobenzene
 Concen: 25.894 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02580

Tgt Ion:180 Resp: 86917
 Ion Ratio Lower Upper
 180 100
 182 95.4 75.4 113.2
 184 29.8 23.9 35.9
 145 32.3 26.0 39.0

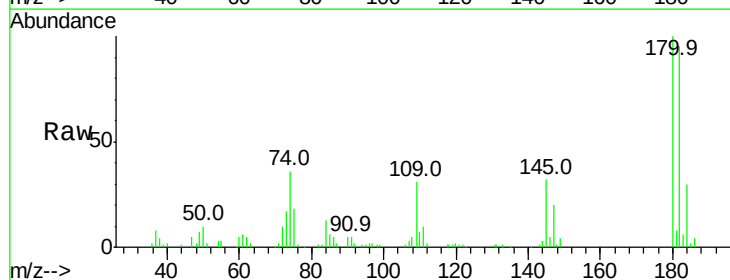


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

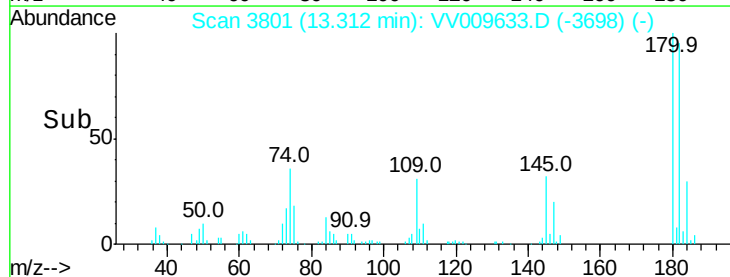
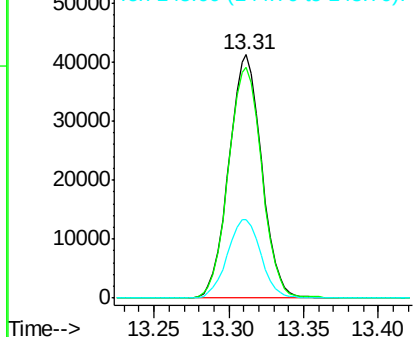


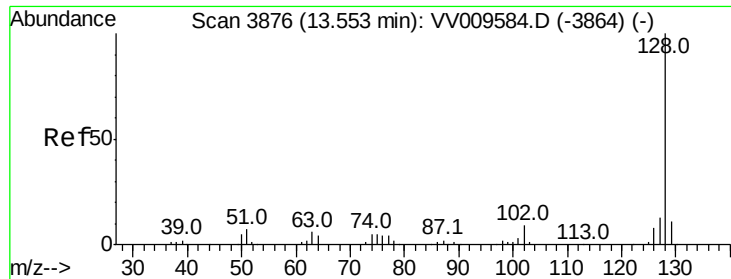
#68
 1,2,4-trichlorobenzene
 Concen: 23.333 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009633.D
 Acq: 13 Mar 2019 11:26

Tgt Ion:180 Resp: 62706
 Ion Ratio Lower Upper
 180 100
 182 96.7 75.9 113.9
 145 33.0 26.2 39.4



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





#69

Naphthalene

Concen: 18.184 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02580

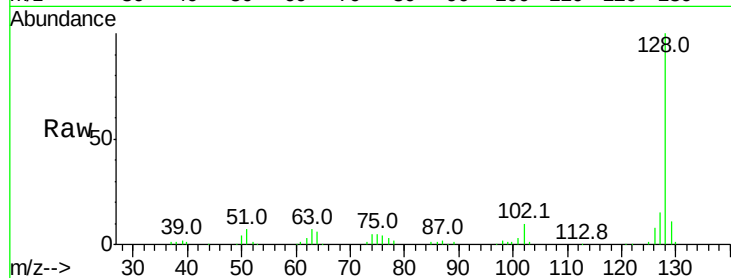
Tgt Ion:128 Resp: 102933

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

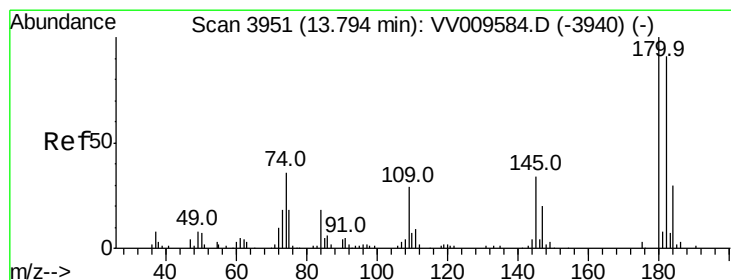
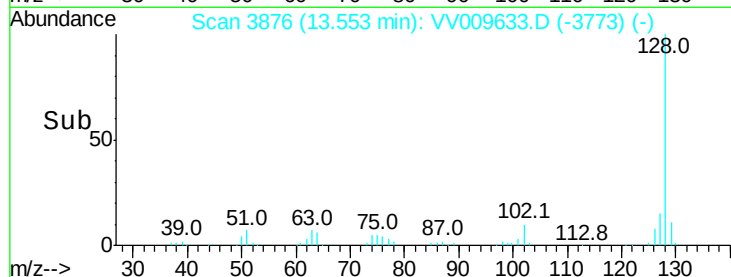
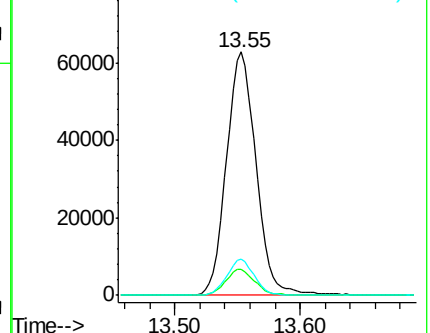
127 13.8 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 23.453 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009633.D

Acq: 13 Mar 2019 11:26

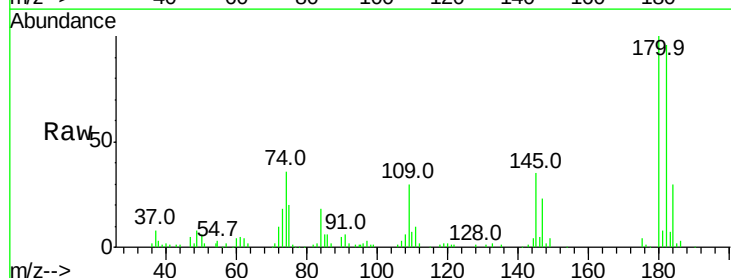
Tgt Ion:180 Resp: 57983

Ion Ratio Lower Upper

180 100

182 96.1 74.2 111.2

145 34.1 27.7 41.5



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

