

Data File : VV010626.D
Acq On : 02 May 2019 12:23
Operator : SY/MD
Sample : VSTD02562
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Quant Time: May 02 12:43:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050219S.M
Quant Title : VOC Analysis
QLast Update : Thu May 02 10:30:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	159115	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	162537	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	80161	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	47437	21.64	ug/L	0.00
7) Chloroethane-d5	1.57	69	35388	20.75	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	85790	20.96	ug/L	0.00
20) 2-Butanone-d5	3.93	46	32550	63.50	ug/L	0.00
24) Chloroform-d	4.40	84	106334	27.35	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	62666	26.27	ug/L	0.00
29) Benzene-d6	5.10	84	224029	29.85	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	68374	30.89	ug/L	0.00
37) Toluene-d8	7.36	98	221148	28.61	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	29486	27.05	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	24711	56.20	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	60005	27.82	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	84299	27.67	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	51745	21.322	ug/L	100
3) Chloromethane	1.25	50	47104	23.393	ug/L	97
5) Vinyl chloride	1.32	62	43053	18.096	ug/L	100
6) Bromomethane	1.52	94	26849	21.648	ug/L	99
8) Chloroethane	1.59	64	24319	18.181	ug/L	100
9) Trichlorofluoromethane	1.76	101	76967	18.937	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	38948	17.115	ug/L	96
12) 1,1-Dichloroethene	2.14	96	34438	17.188	ug/L	92
13) Acetone	2.19	43	20469	37.257	ug/L	93
14) Carbon disulfide	2.31	76	110923	24.772	ug/L	99
15) Methyl Acetate	2.46	43	22947	28.061	ug/L	99
16) Methylene chloride	2.53	84	48655	20.851	ug/L	97
17) Methyl tert-butyl Ether	2.80	73	108622	22.869	ug/L	96
18) trans-1,2-Dichloroethene	2.79	96	44004	24.831	ug/L	97
19) 1,1-Dichloroethane	3.23	63	83078	26.234	ug/L	100
21) 2-Butanone	4.02	43	29669	50.669	ug/L	92
22) cis-1,2-Dichloroethene	3.96	96	49413	24.733	ug/L	97
23) Bromochloromethane	4.30	128	23658	24.545	ug/L	89
25) Chloroform	4.42	83	94765	24.905	ug/L	99
27) 1,2-Dichloroethane	5.18	62	59777	22.397	ug/L	99
30) Cyclohexane	4.72	56	65282	22.670	ug/L	97
31) 1,1,1-Trichloroethane	4.66	97	75270	21.667	ug/L	99
32) Carbon tetrachloride	4.87	117	66490	20.193	ug/L	100
34) Benzene	5.14	78	180025	25.057	ug/L	100
35) Trichloroethene	5.96	95	50349	23.109	ug/L	99
36) Methylcyclohexane	6.17	83	71514	21.971	ug/L	98
40) 1,2-Dichloropropane	6.22	63	46862	26.504	ug/L	99
41) Bromodichloromethane	6.55	83	63950	23.449	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	67895	23.253	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	66586	50.709	ug/L	98

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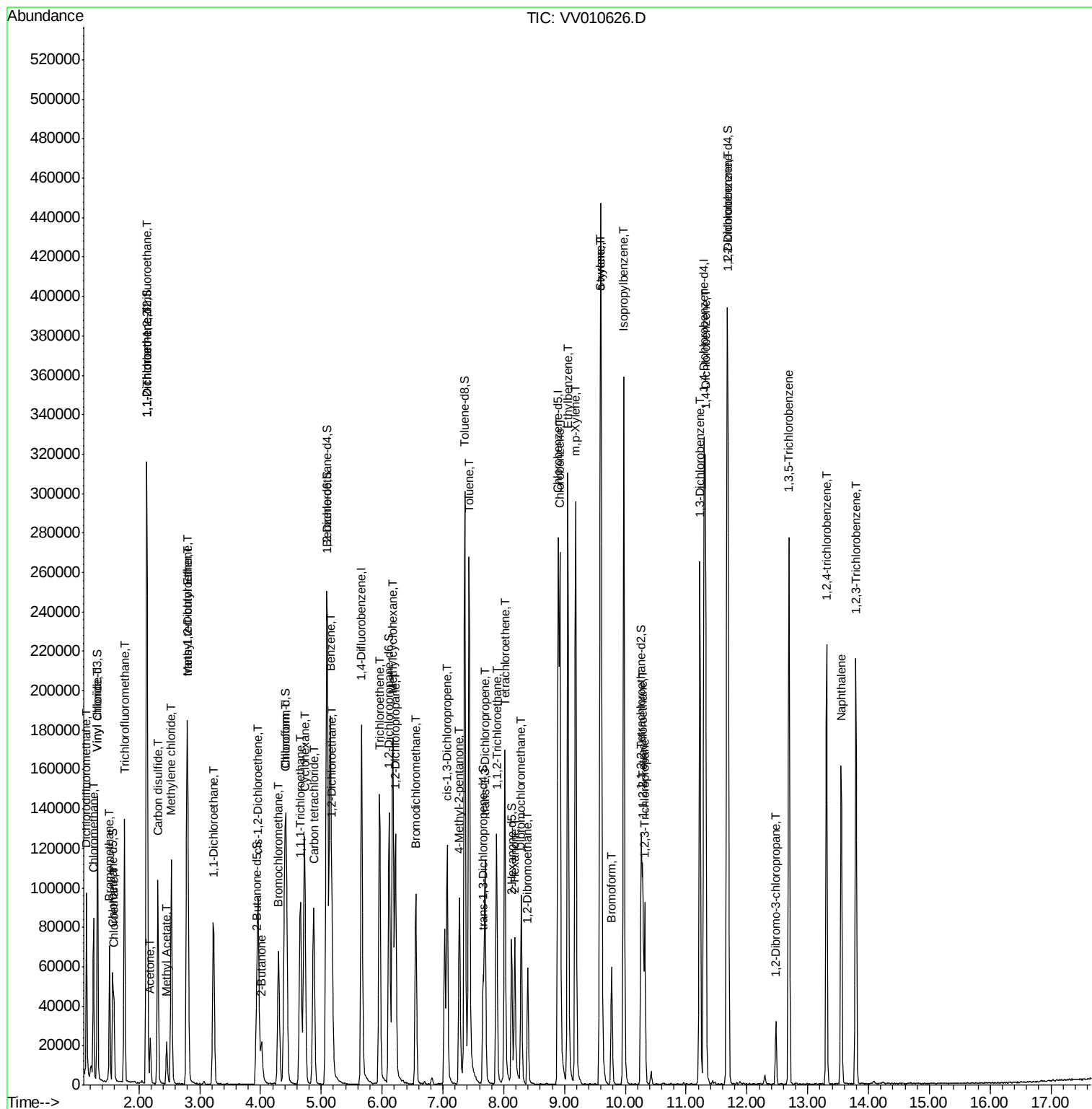
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	203662	23.458	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	61342	23.009	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	38922	24.544	ug/L	98
47) Tetrachloroethene	8.02	164	38056	19.678	ug/L	99
49) 2-Hexanone	8.18	43	47108	50.532	ug/L	93
50) Dibromochloromethane	8.29	129	48931	22.889	ug/L	98
51) 1,2-Dibromoethane	8.40	107	37685	22.649	ug/L	94
52) Chlorobenzene	8.93	112	140827	23.136	ug/L	98
53) Ethylbenzene	9.05	91	229690	22.627	ug/L	99
54) m,p-Xylene	9.18	106	90431	22.725	ug/L	98
55) o-xylene	9.59	106	87508	22.076	ug/L	99
56) Styrene	9.60	104	151615	23.183	ug/L	94
57) Isopropylbenzene	9.97	105	230843	21.556	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	48860	23.783	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	36804	24.180	ug/L	99
62) Bromoform	9.77	173	26578	22.138	ug/L #	97
63) 1,3-Dichlorobenzene	11.23	146	108347	23.112	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	112894	23.524	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	110802	24.322	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	7658	25.363	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	82410	21.998	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	64599	22.859	ug/L	99
69) Naphthalene	13.55	128	123949	27.290	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	60632	23.180	ug/L	96

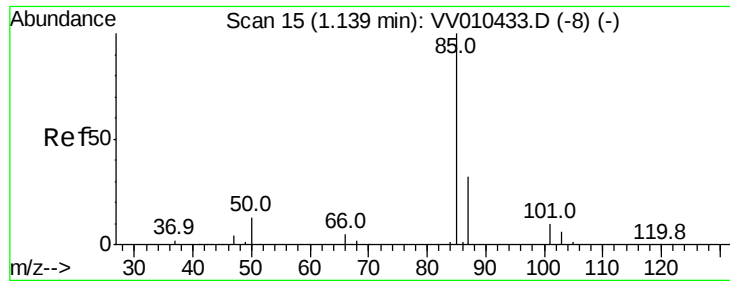
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.322 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

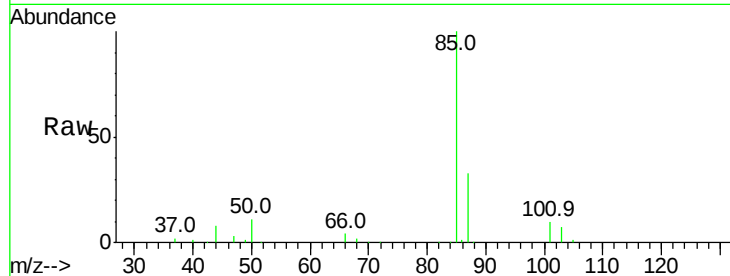
VSTD02562

Tgt Ion: 85 Resp: 51745

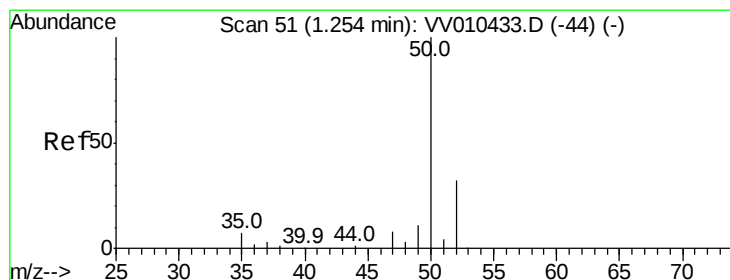
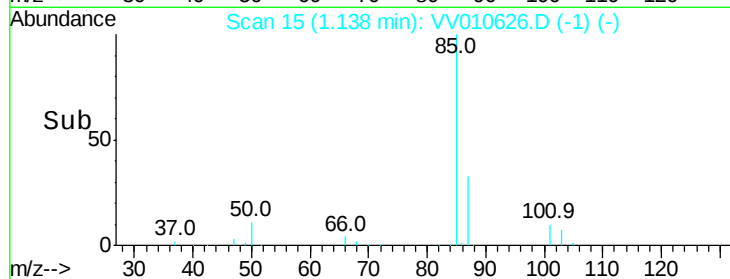
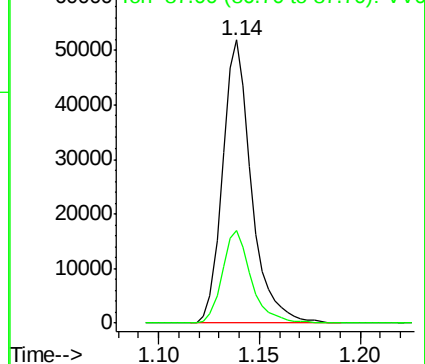
Ion Ratio Lower Upper

85 100

87 32.9 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV010626.D (-1) (-)



#3

Chloromethane

Concen: 23.393 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010626.D

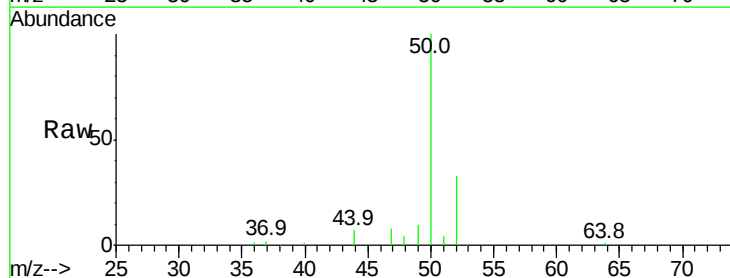
Acq: 02 May 2019 12:23

Tgt Ion: 50 Resp: 47104

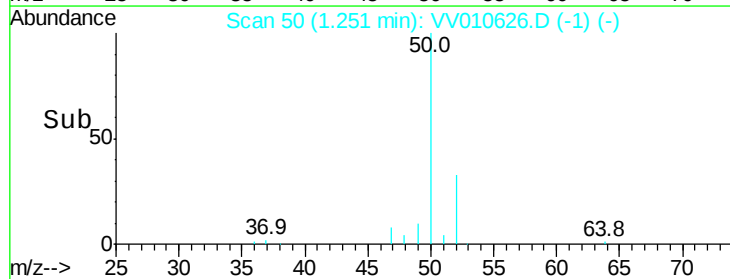
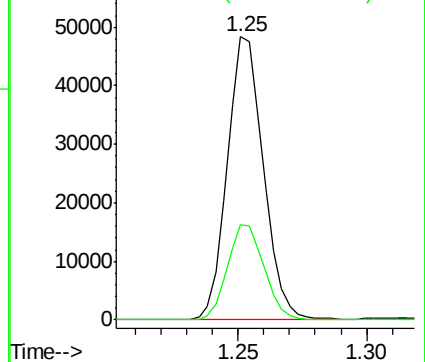
Ion Ratio Lower Upper

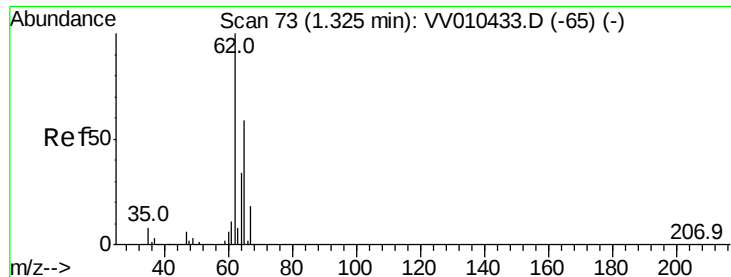
50 100

52 33.4 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV010626.D (-1) (-)





#5

Vinyl chloride

Concen: 18.096 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

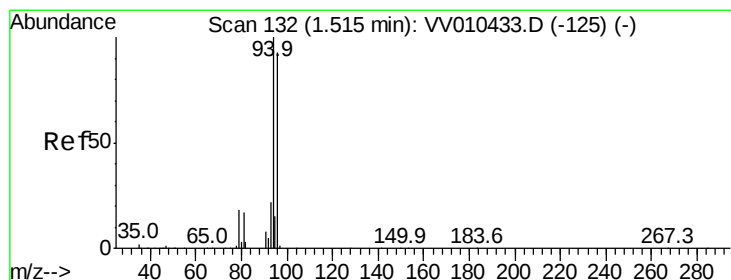
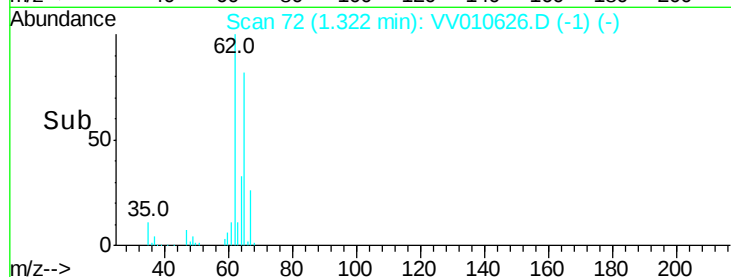
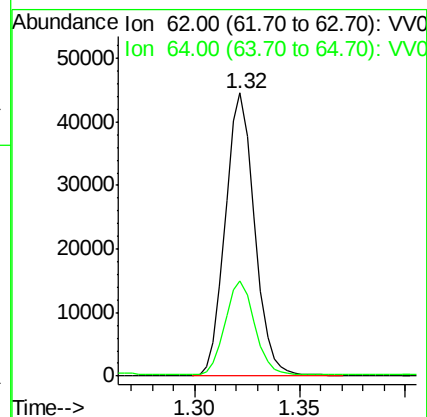
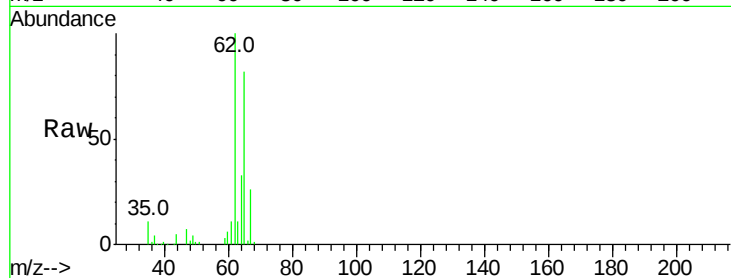
VSTD02562

Tgt Ion: 62 Resp: 43053

Ion Ratio Lower Upper

62 100

64 33.5 23.4 43.6



#6

Bromomethane

Concen: 21.648 ug/L

RT: 1.52 min Scan# 133

Delta R.T. 0.00 min

Lab File: VV010626.D

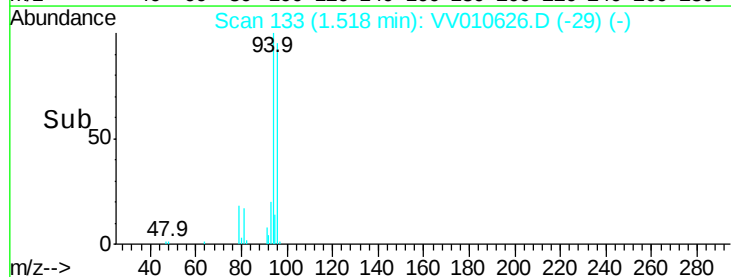
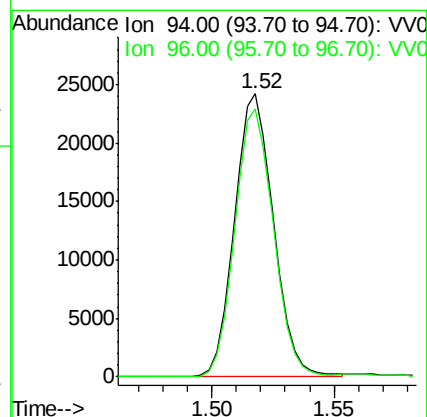
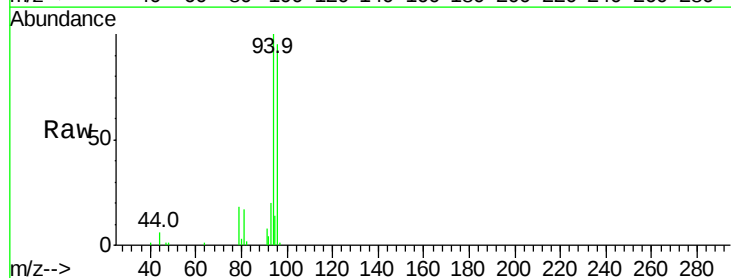
Acq: 02 May 2019 12:23

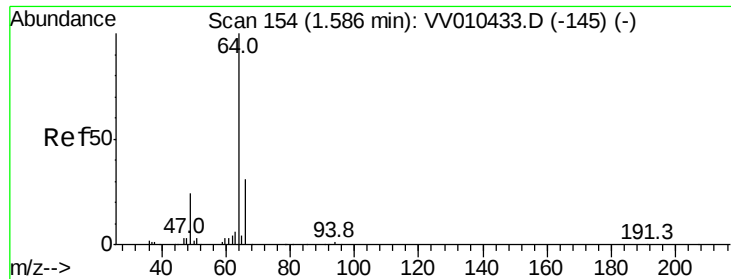
Tgt Ion: 94 Resp: 26849

Ion Ratio Lower Upper

94 100

96 94.0 9.5 180.3





#8

Chloroethane

Concen: 18.181 ug/L

RT: 1.59 min Scan# 155

Delta R.T. 0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

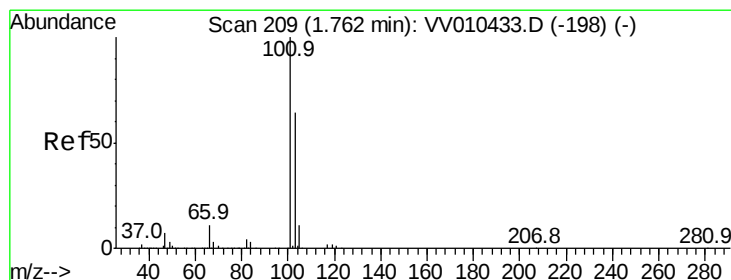
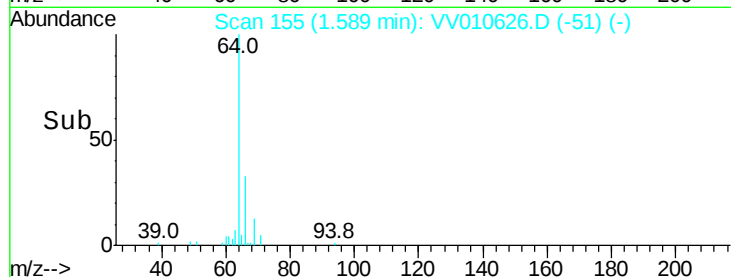
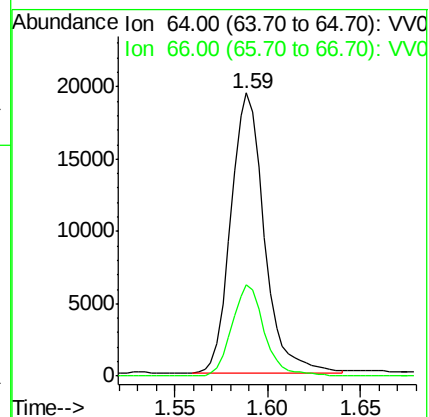
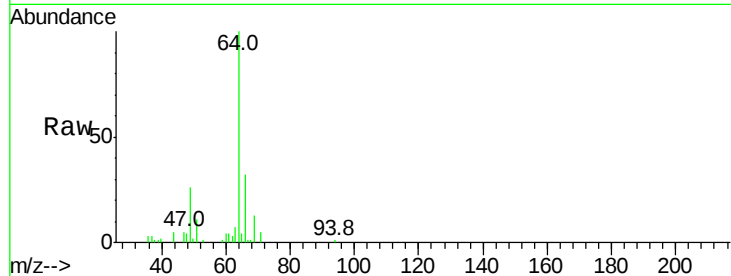
VSTD02562

Tgt Ion: 64 Resp: 24319

Ion Ratio Lower Upper

64 100

66 32.1 22.5 41.7



#9

Trichlorofluoromethane

Concen: 18.937 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV010626.D

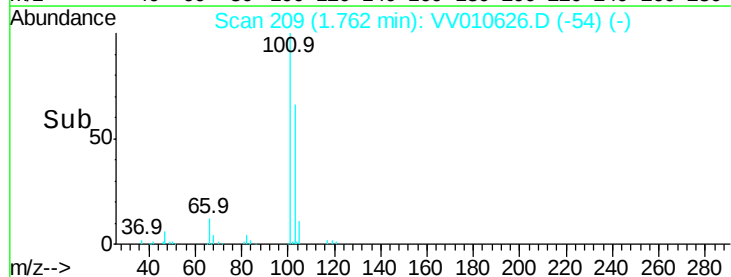
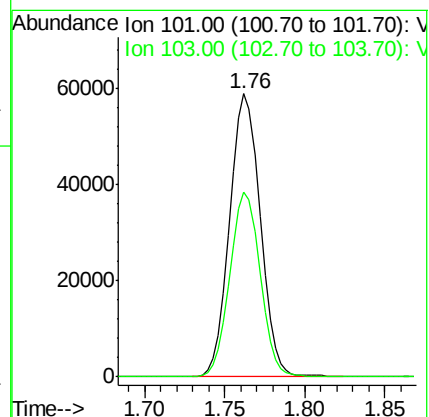
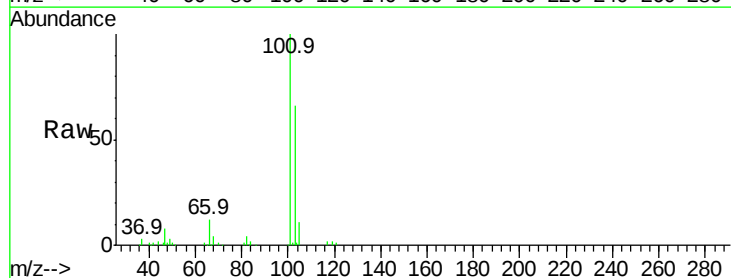
Acq: 02 May 2019 12:23

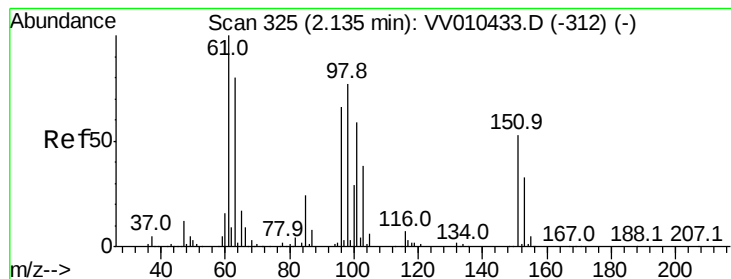
Tgt Ion: 101 Resp: 76967

Ion Ratio Lower Upper

101 100

103 64.5 45.4 84.2





#11

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

Concen: 17.115 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

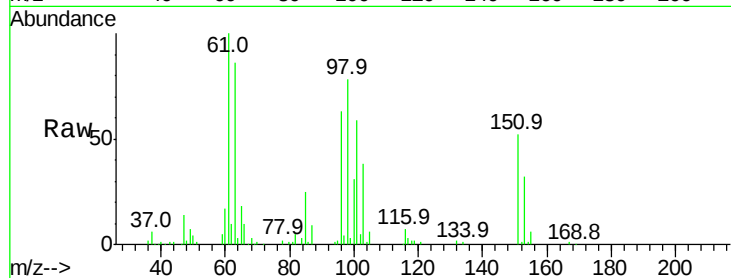
Tgt Ion:101 Resp: 38948

Ion Ratio Lower Upper

101 100

85 43.2 31.8 47.6

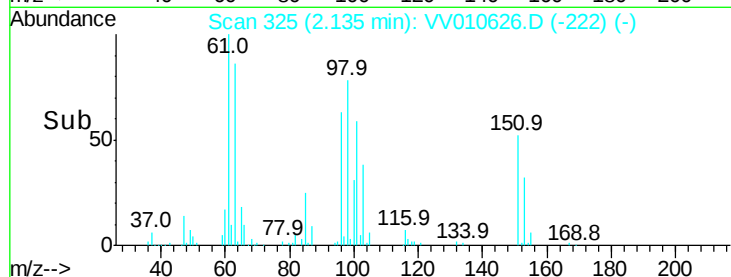
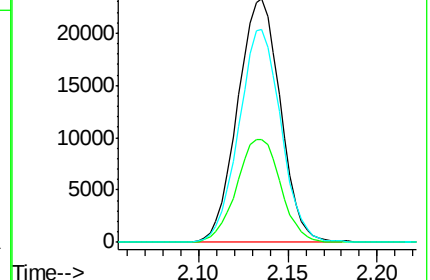
151 85.8 70.9 106.3



Abundance Ion 101.00 (100.70 to 101.70): VV010433.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV010433.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV010433.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 17.188 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

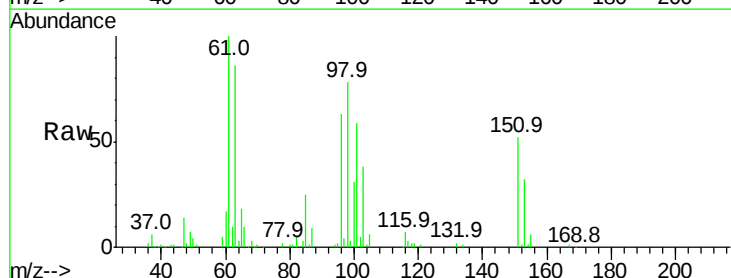
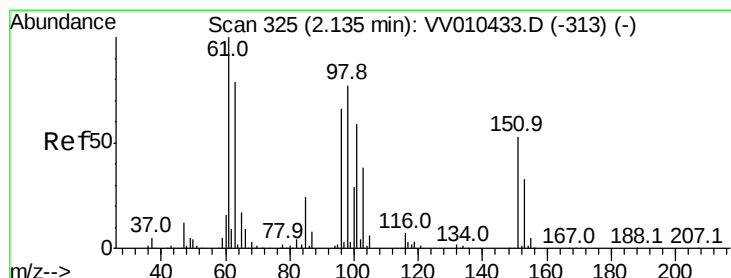
Tgt Ion: 96 Resp: 34438

Ion Ratio Lower Upper

96 100

61 158.7 105.3 195.5

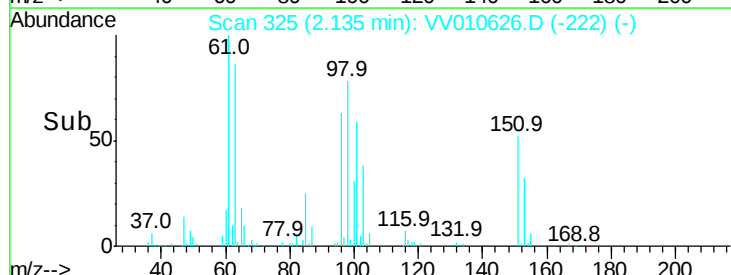
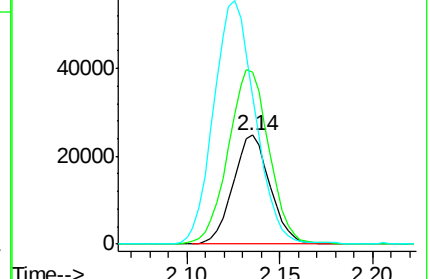
63 136.0 87.8 163.2

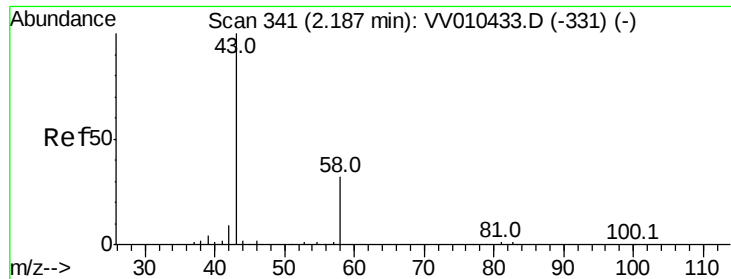


Abundance Ion 96.00 (95.70 to 96.70): VV010433.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV010433.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV010433.D (-313) (-)





#13

Acetone

Concen: 37.257 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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ClientSampleId :

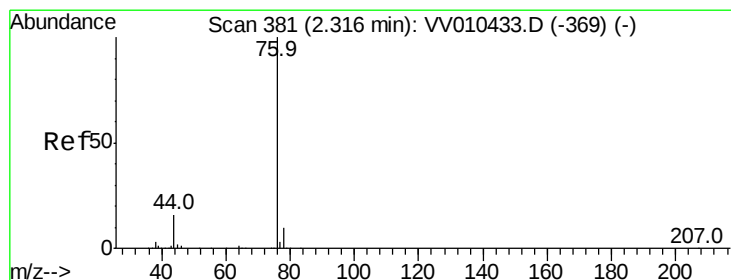
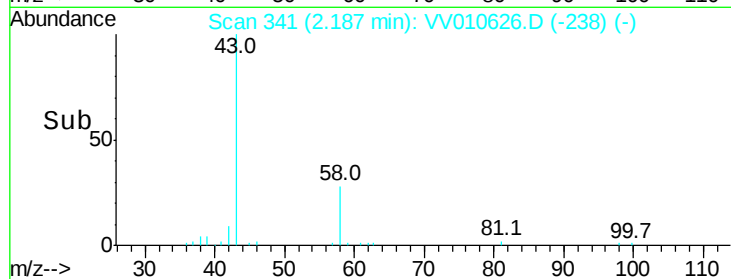
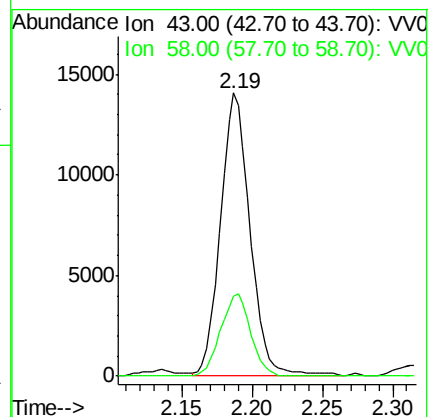
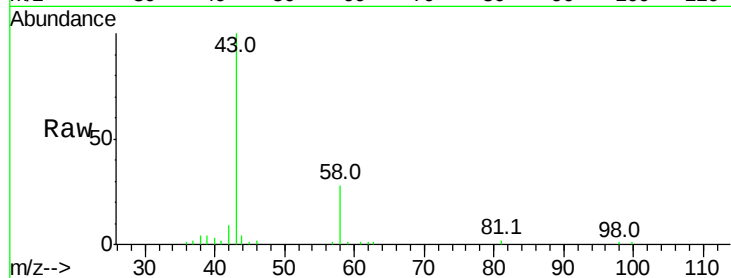
VSTD02562

Tgt Ion: 43 Resp: 20469

Ion Ratio Lower Upper

43 100

58 29.1 0.0 66.4



#14

Carbon disulfide

Concen: 24.772 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010626.D

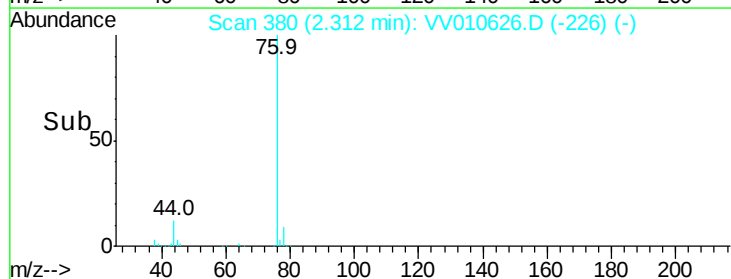
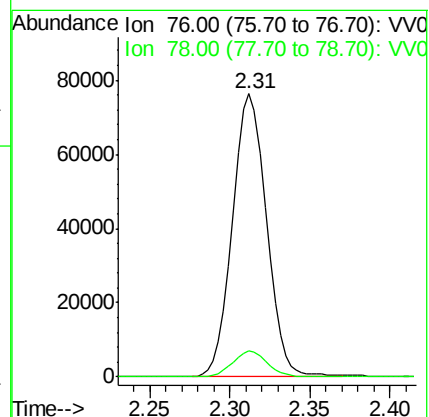
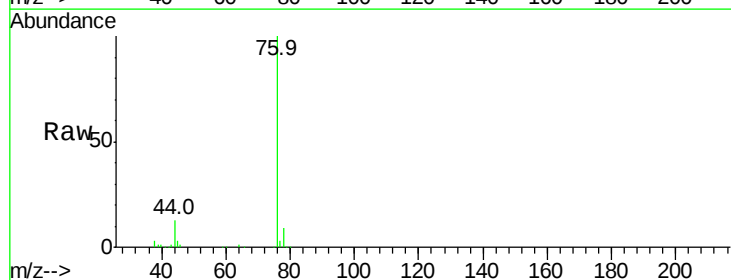
Acq: 02 May 2019 12:23

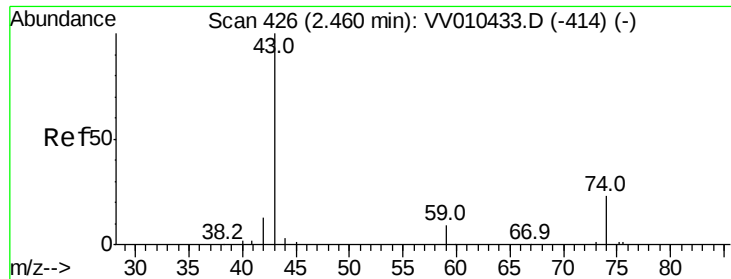
Tgt Ion: 76 Resp: 110923

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3





#15

Methyl Acetate

Concen: 28.061 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

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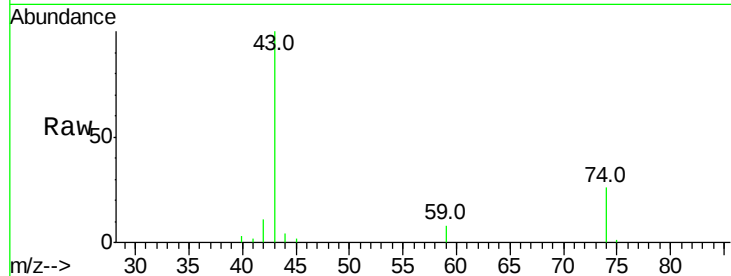
VSTD02562

Tgt Ion: 43 Resp: 22947

Ion Ratio Lower Upper

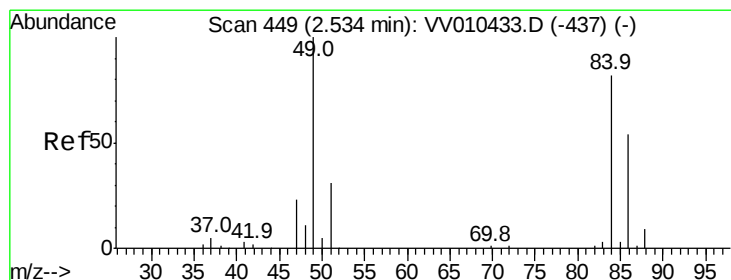
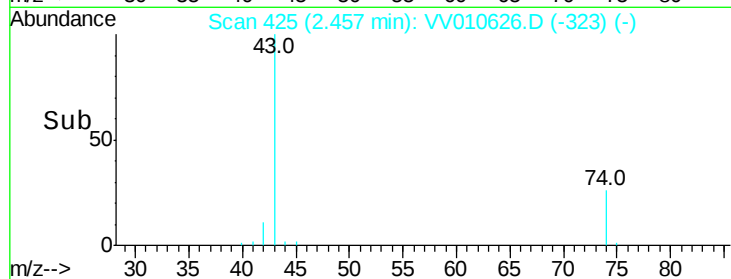
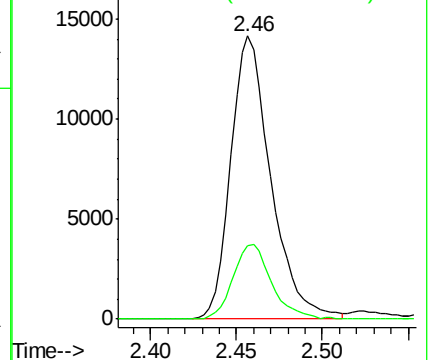
43 100

74 25.0 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 20.851 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

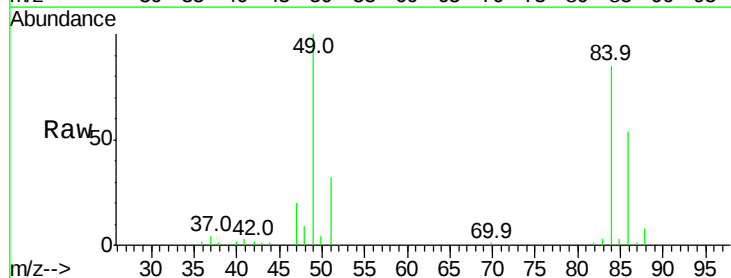
Tgt Ion: 84 Resp: 48655

Ion Ratio Lower Upper

84 100

49 117.0 85.0 158.0

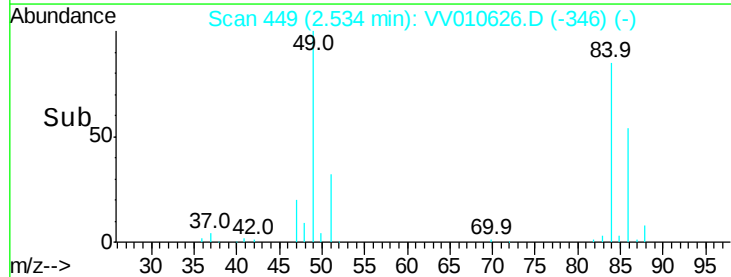
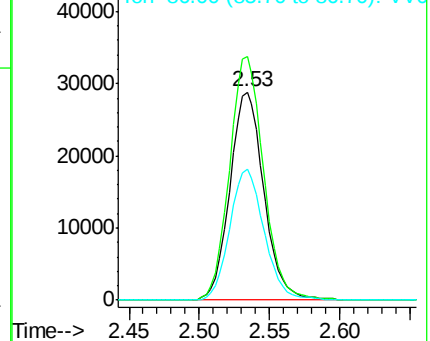
86 62.8 43.9 81.5

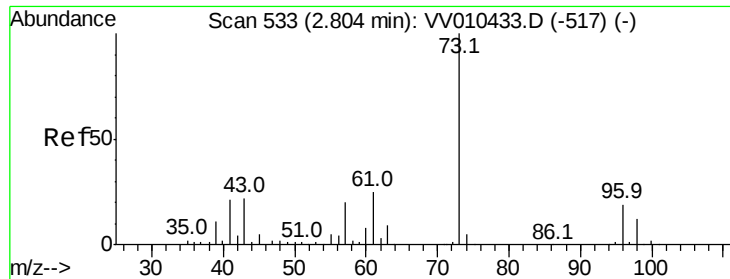


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0



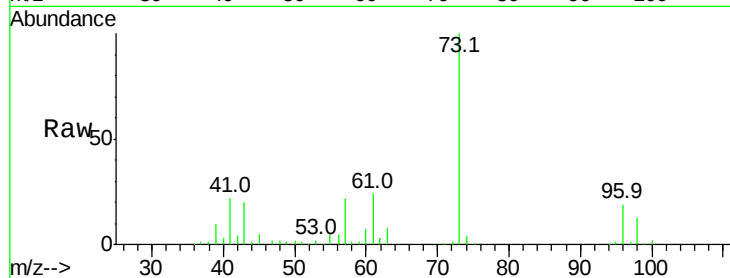


#17

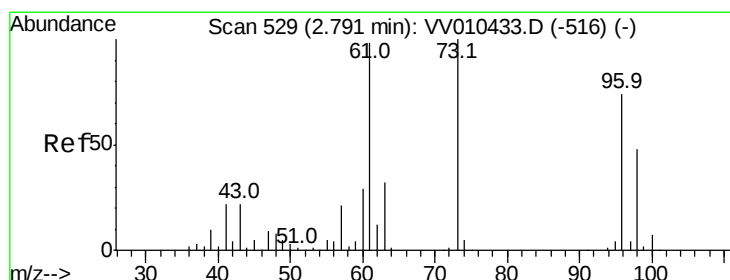
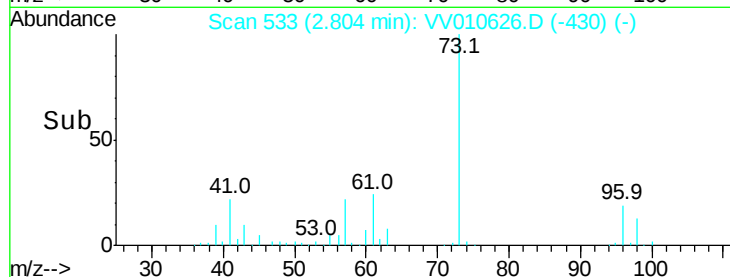
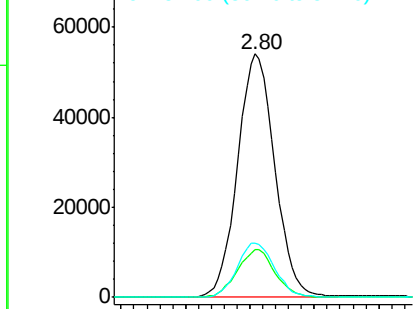
Methyl tert-butyl Ether
 Concen: 22.869 ug/L
 RT: 2.80 min Scan# 533
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion: 73 Resp: 108622
 Ion Ratio Lower Upper
 73 100
 43 19.9 16.8 25.2
 57 22.4 16.1 24.1



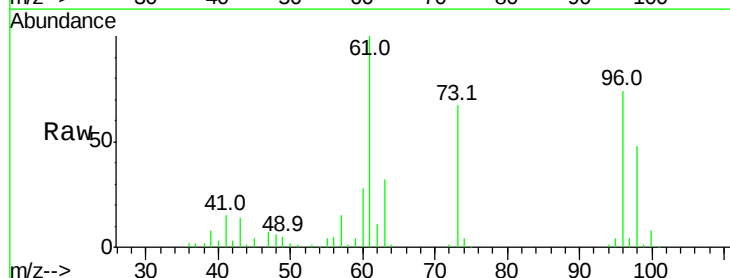
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



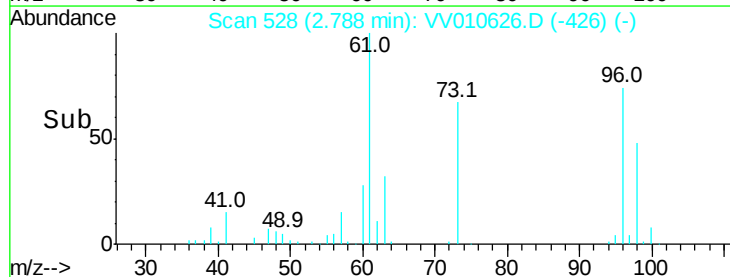
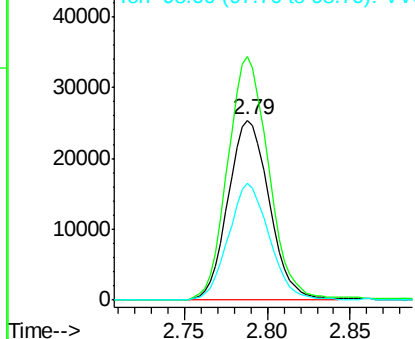
#18

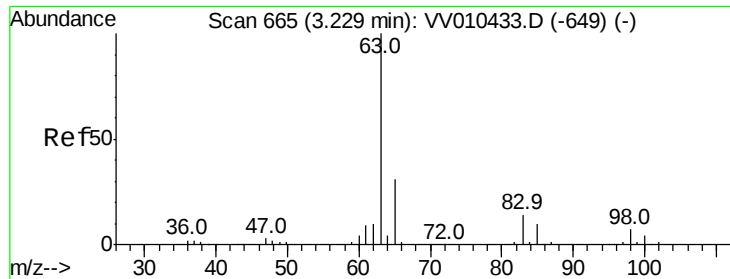
trans-1,2-Dichloroethene
 Concen: 24.831 ug/L
 RT: 2.79 min Scan# 528
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Tgt Ion: 96 Resp: 44004
 Ion Ratio Lower Upper
 96 100
 61 135.2 98.6 183.0
 98 64.6 45.7 84.9



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





#19

1,1-Dichloroethane

Concen: 26.234 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

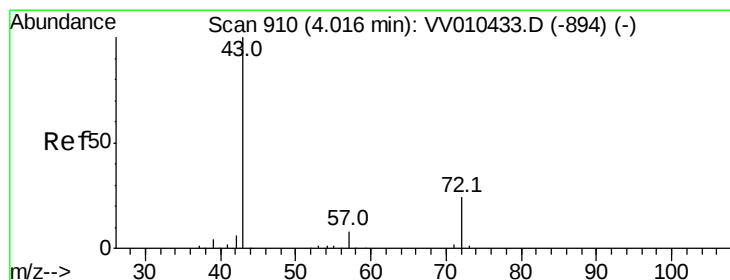
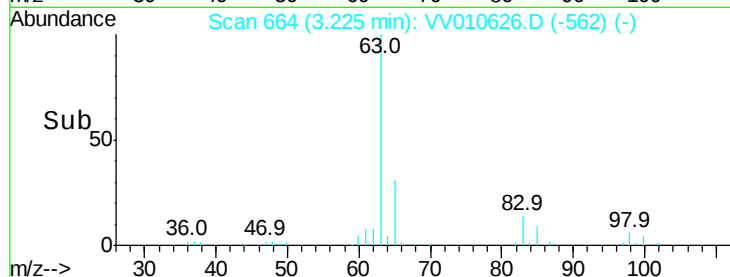
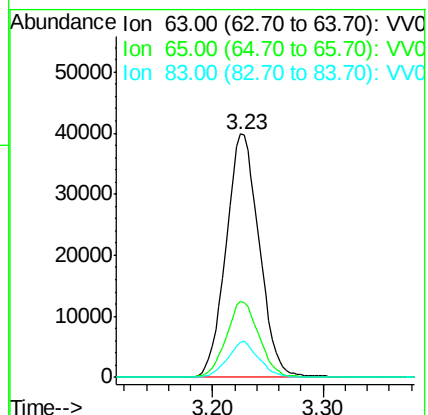
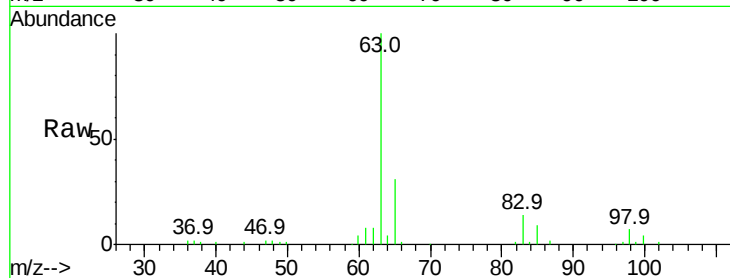
Tgt Ion: 63 Resp: 83078

Ion Ratio Lower Upper

63 100

65 31.4 22.0 41.0

83 14.3 9.8 18.2



#21

2-Butanone

Concen: 50.669 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.00 min

Lab File: VV010626.D

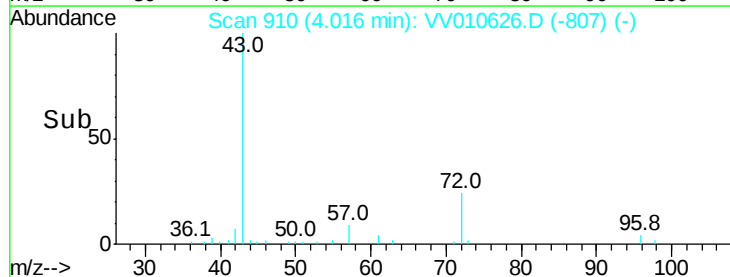
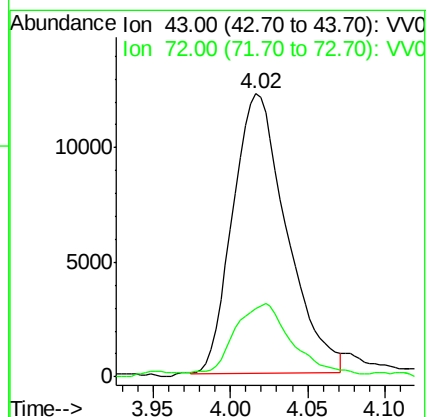
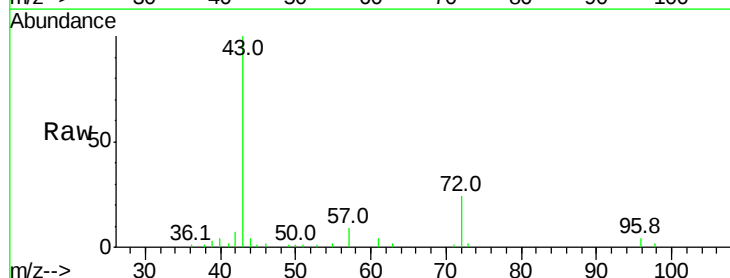
Acq: 02 May 2019 12:23

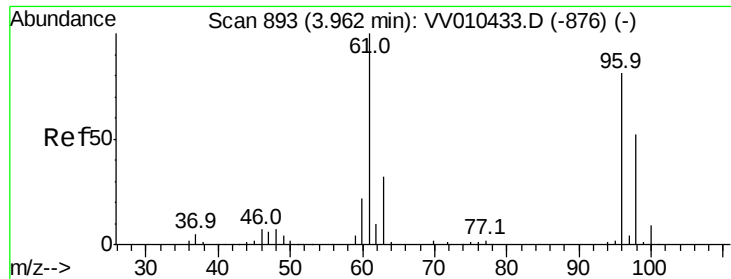
Tgt Ion: 43 Resp: 29669

Ion Ratio Lower Upper

43 100

72 28.4 12.2 36.4



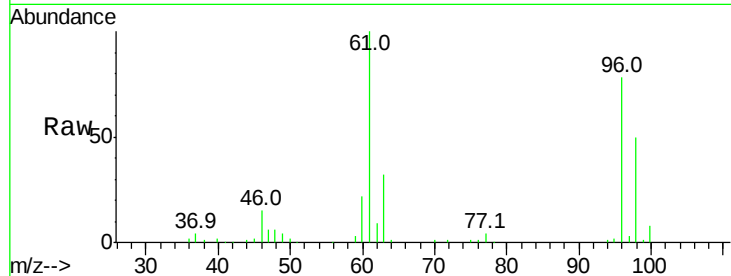


#22

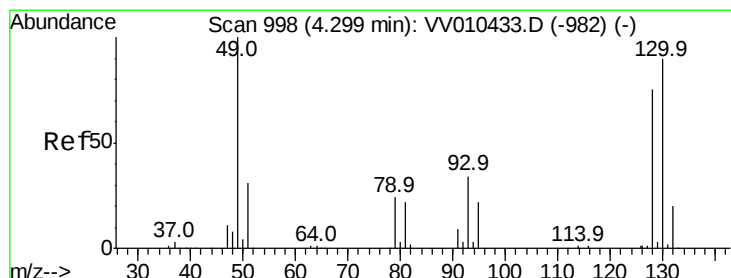
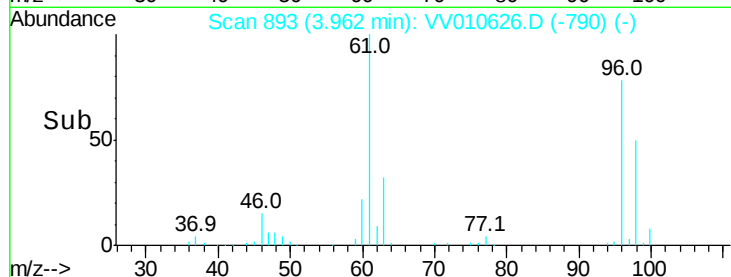
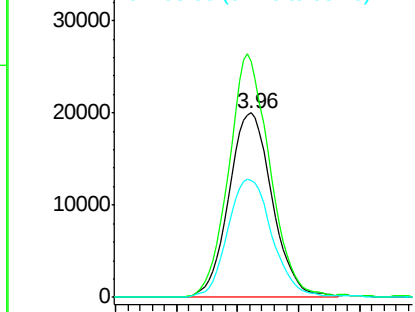
cis-1,2-Dichloroethene
Concen: 24.733 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV010626.D
Acq: 02 May 2019 12:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Tgt Ion: 96 Resp: 49413
Ion Ratio Lower Upper
96 100
61 128.0 86.7 161.1
98 63.6 43.5 80.7



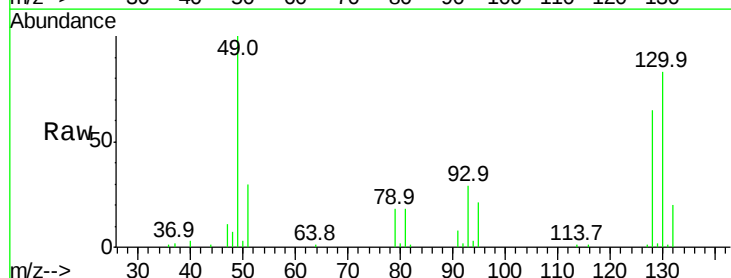
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



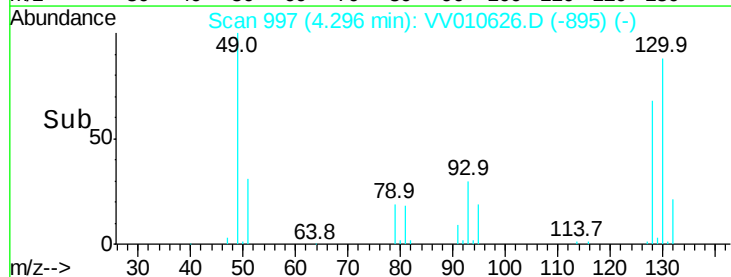
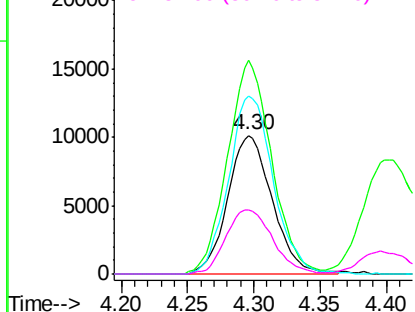
#23

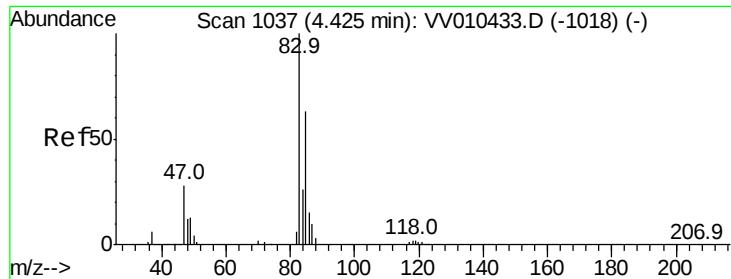
Bromochloromethane
Concen: 24.545 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV010626.D
Acq: 02 May 2019 12:23

Tgt Ion: 128 Resp: 23658
Ion Ratio Lower Upper
128 100
49 154.3 93.7 174.1
130 128.2 85.9 159.5
51 46.6 32.2 48.4



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: 24.905 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

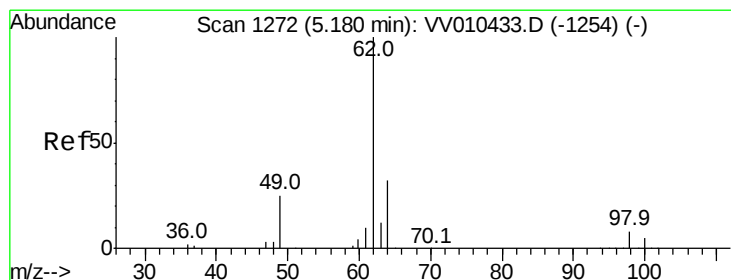
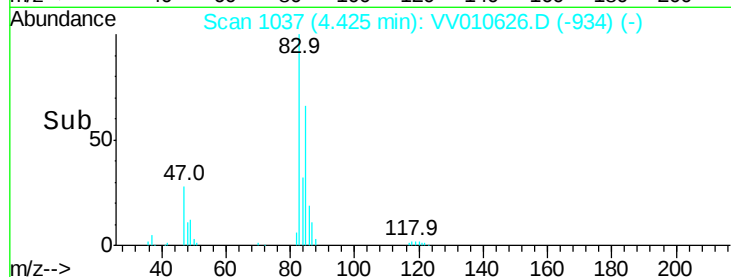
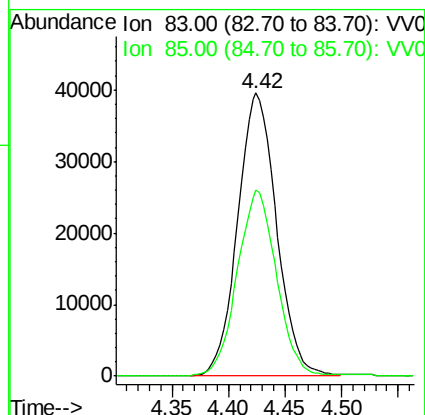
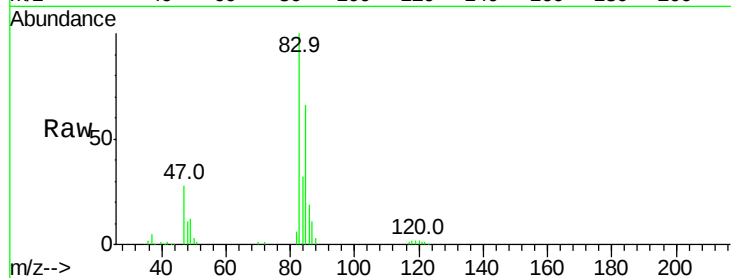
VSTD02562

Tgt Ion: 83 Resp: 94765

Ion Ratio Lower Upper

83 100

85 66.2 46.1 85.5



#27

1,2-Dichloroethane

Concen: 22.397 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV010626.D

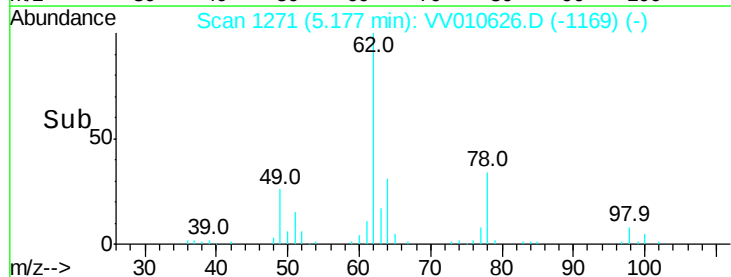
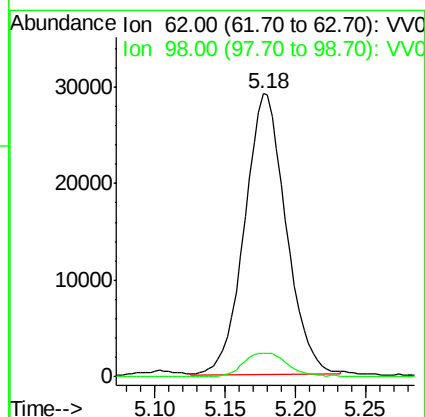
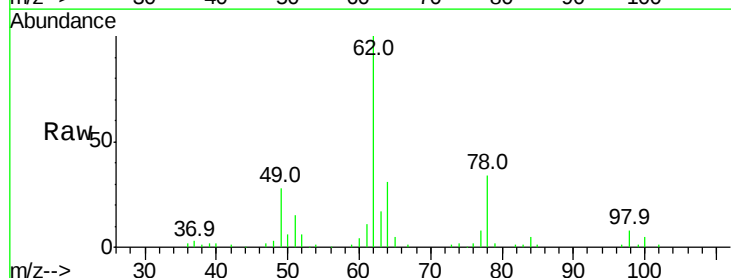
Acq: 02 May 2019 12:23

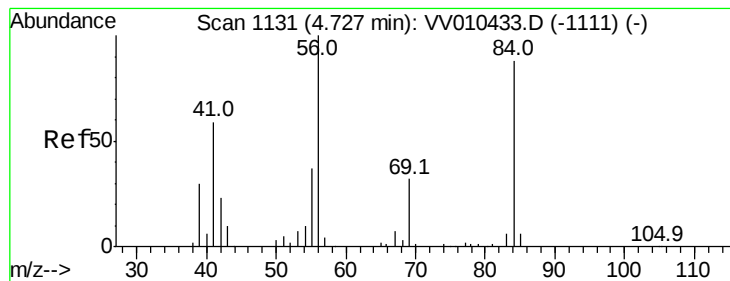
Tgt Ion: 62 Resp: 59777

Ion Ratio Lower Upper

62 100

98 8.3 6.4 9.6





#30

Cyclohexane

Concen: 22.670 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

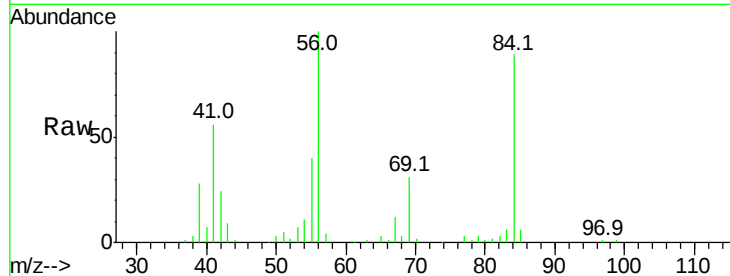
Tgt Ion: 56 Resp: 65282

Ion Ratio Lower Upper

56 100

69 31.3 25.9 38.9

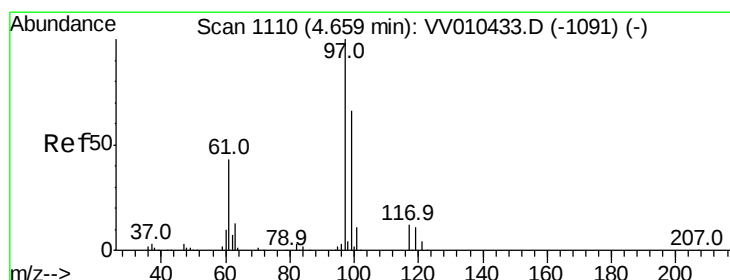
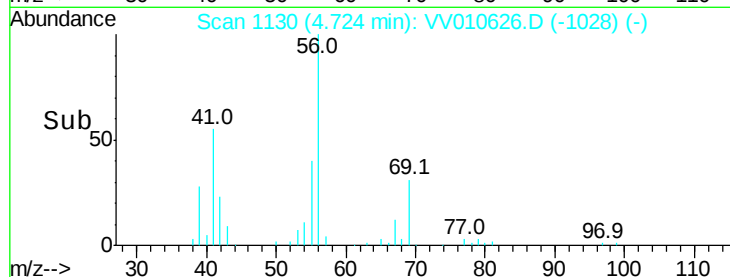
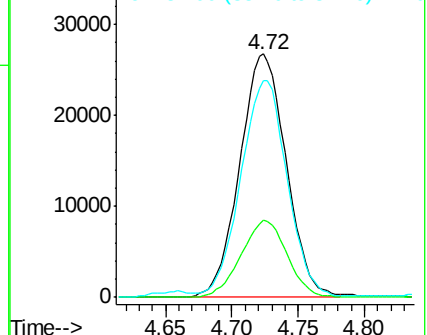
84 89.5 74.2 111.4



Abundance Ion 56.00 (55.70 to 56.70): VV010626.D (-1028) (-)

Ion 69.00 (68.70 to 69.70): VV010626.D (-1028) (-)

Ion 84.00 (83.70 to 84.70): VV010626.D (-1028) (-)



#31

1,1,1-Trichloroethane

Concen: 21.667 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

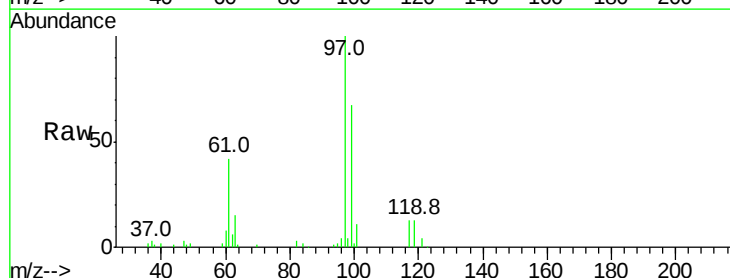
Tgt Ion: 97 Resp: 75270

Ion Ratio Lower Upper

97 100

99 62.9 50.7 76.1

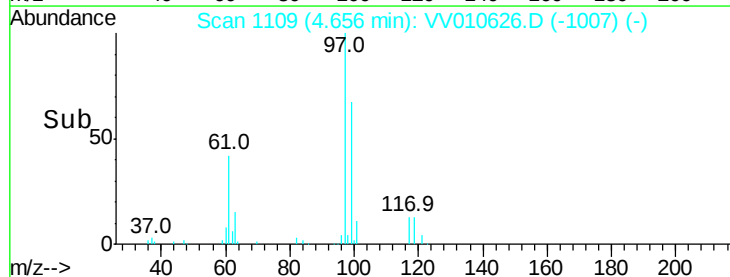
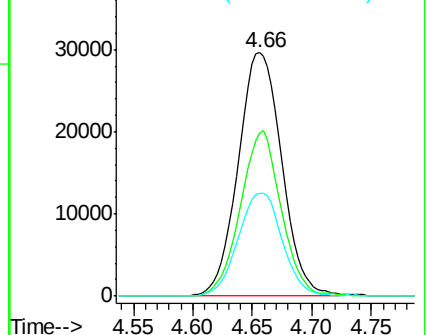
61 42.6 34.5 51.7

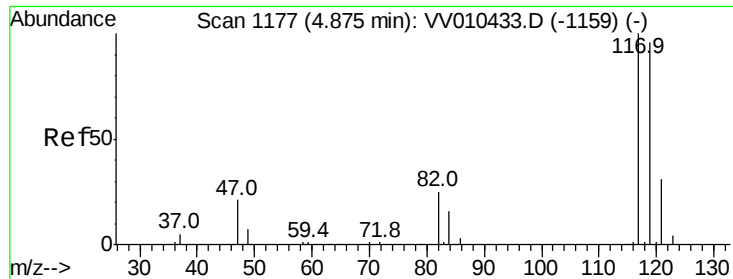


Abundance Ion 97.00 (96.70 to 97.70): VV010626.D (-1007) (-)

Ion 99.00 (98.70 to 99.70): VV010626.D (-1007) (-)

Ion 61.00 (60.70 to 61.70): VV010626.D (-1007) (-)





#32

Carbon tetrachloride

Concen: 20.193 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

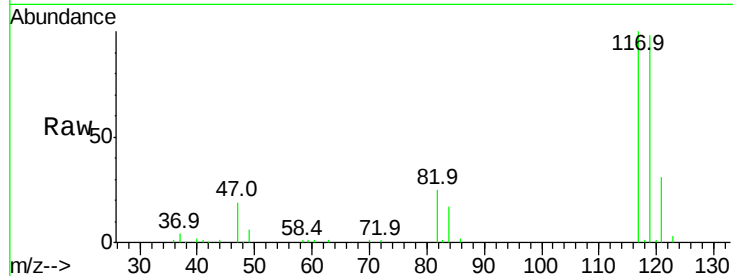
VSTD02562

Tgt Ion:117 Resp: 66490

Ion Ratio Lower Upper

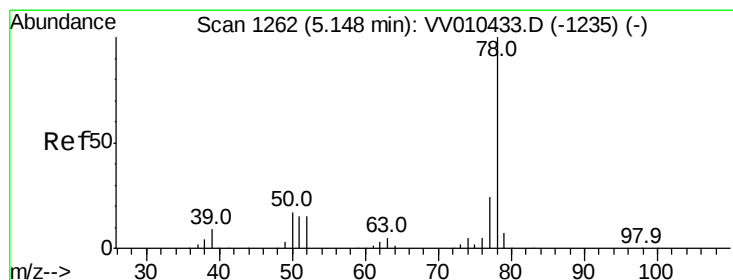
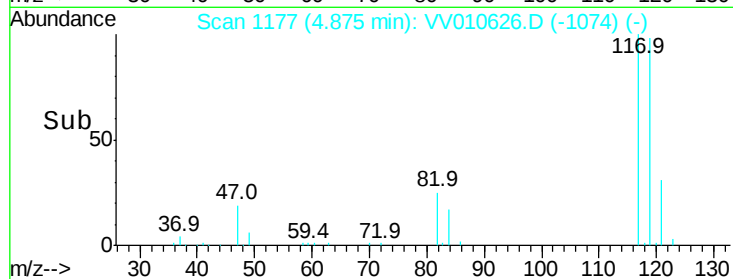
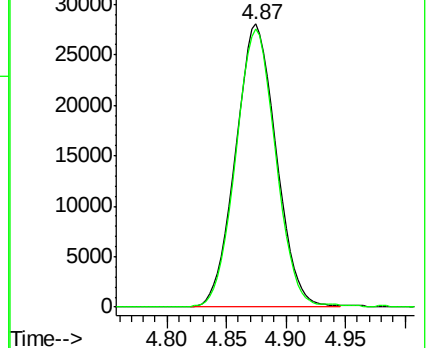
117 100

119 96.0 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.057 ug/L

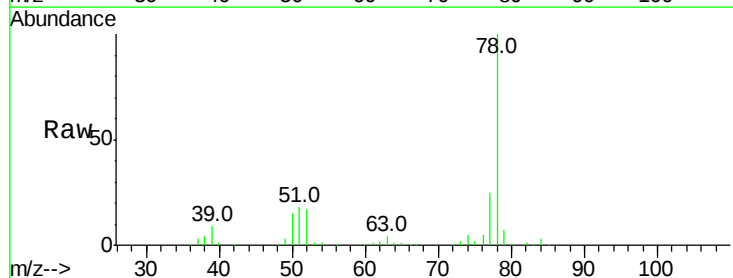
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

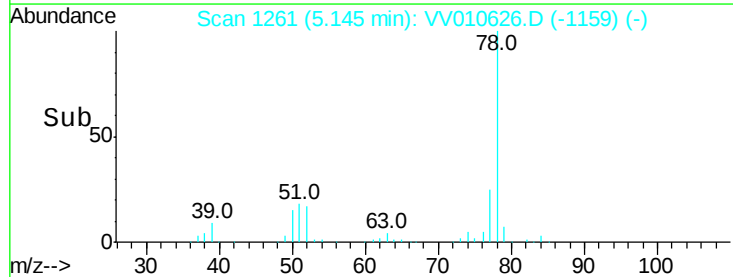
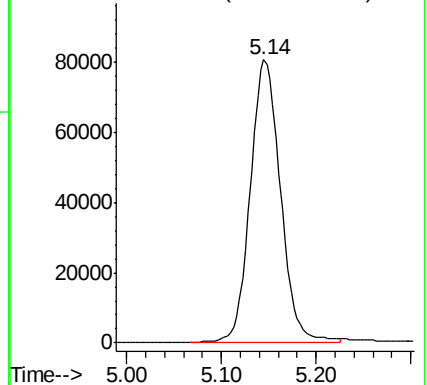
Lab File: VV010626.D

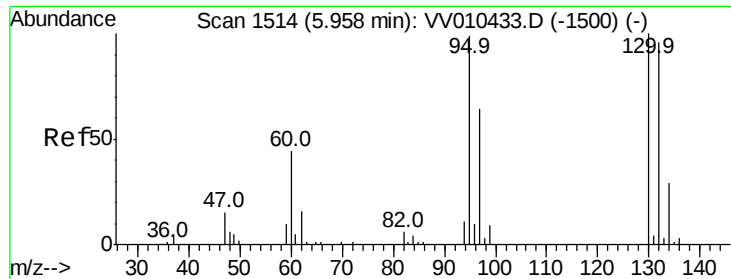
Acq: 02 May 2019 12:23

Tgt Ion: 78 Resp: 180025



Abundance Ion 78.00 (77.70 to 78.70): VV0

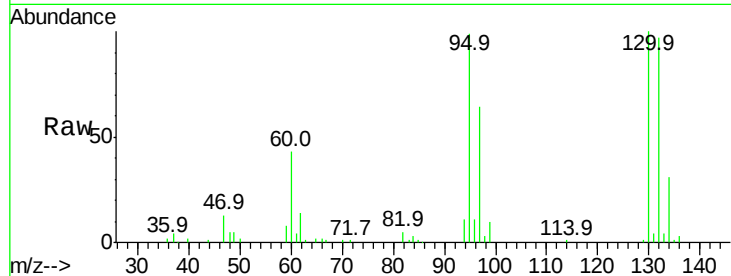




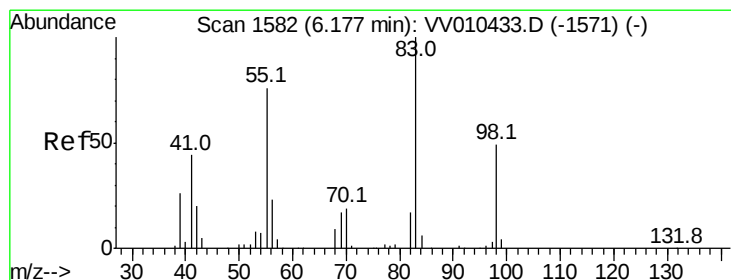
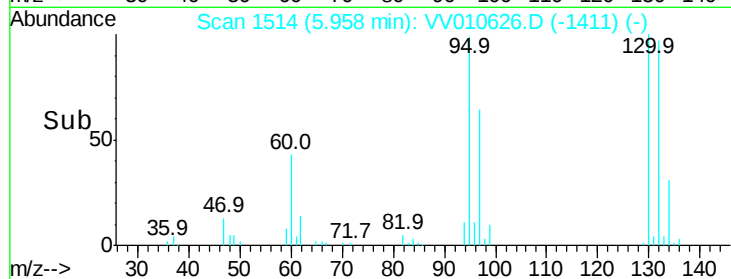
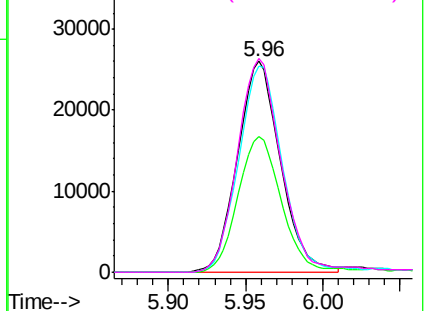
#35
 Trichloroethene
 Concen: 23.109 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion: 95 Resp: 50349
 Ion Ratio Lower Upper
 95 100
 97 64.3 44.4 82.4
 132 99.9 69.0 128.1
 130 101.8 71.5 132.7

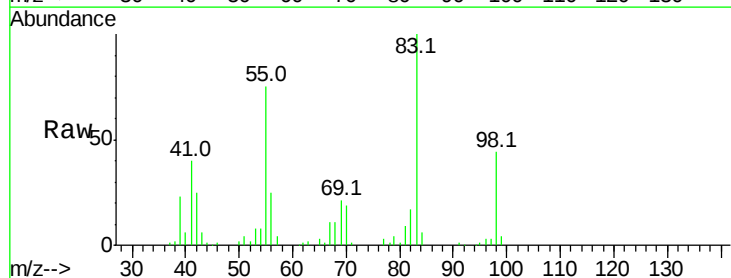


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

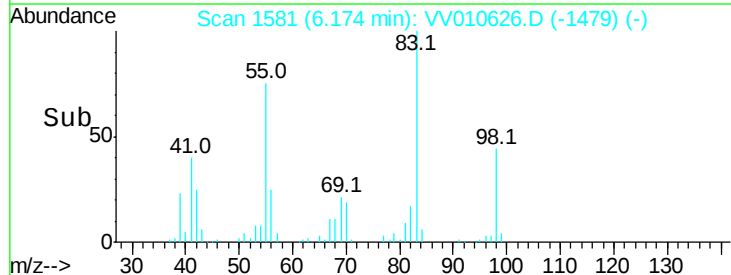
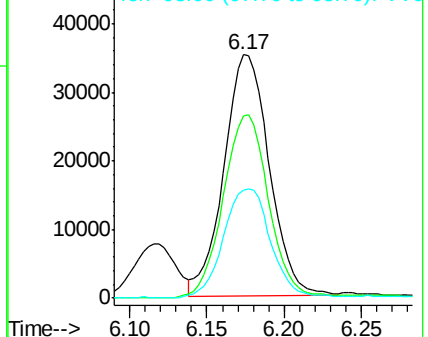


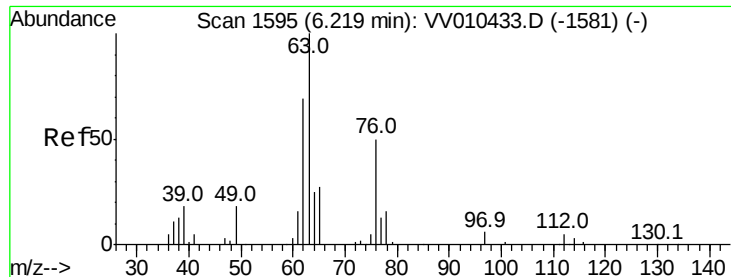
#36
 Methylcyclohexane
 Concen: 21.971 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Tgt Ion: 83 Resp: 71514
 Ion Ratio Lower Upper
 83 100
 55 76.7 59.6 89.4
 98 46.8 38.0 57.0



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: 26.504 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

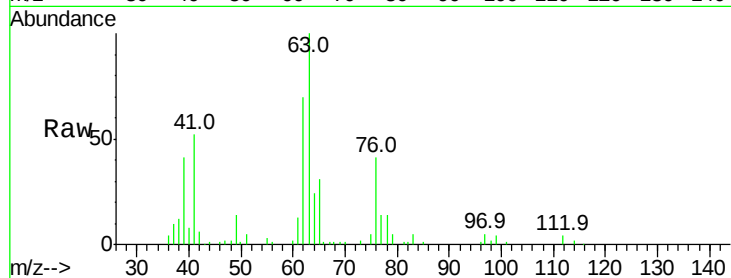
VSTD02562

Tgt Ion: 63 Resp: 46862

Ion Ratio Lower Upper

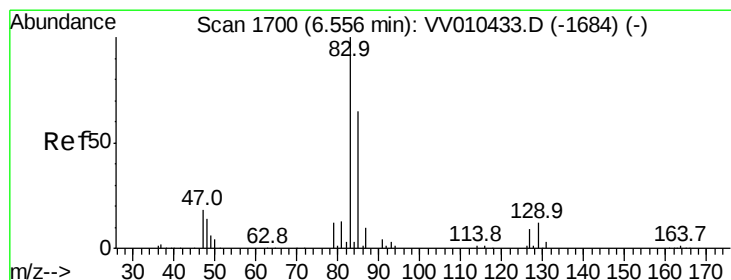
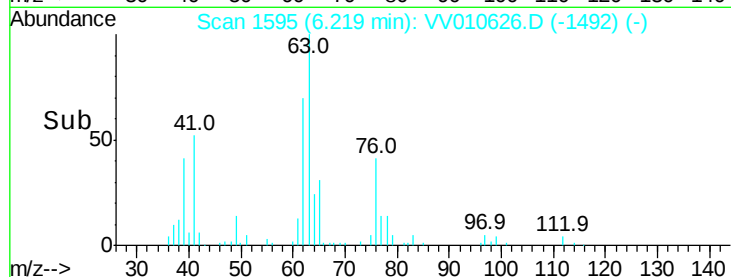
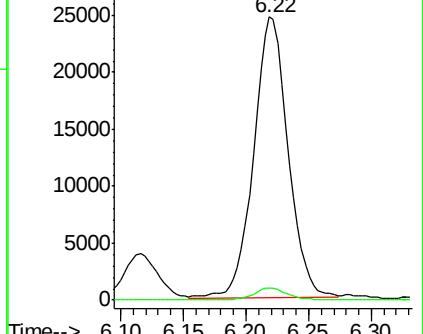
63 100

112 4.2 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VV010626.D (-1597) (-)

Ion 112.00 (111.70 to 112.70): VV010626.D (-1597) (-)



#41

Bromodichloromethane

Concen: 23.449 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

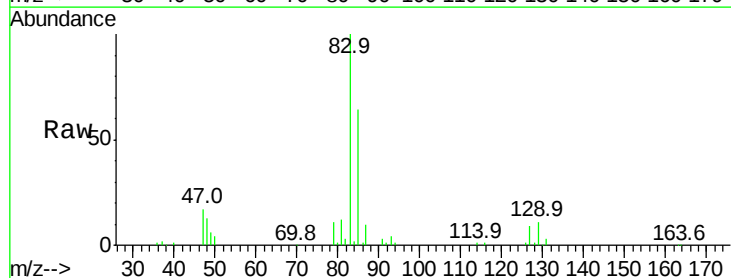
Tgt Ion: 83 Resp: 63950

Ion Ratio Lower Upper

83 100

85 64.5 45.1 83.9

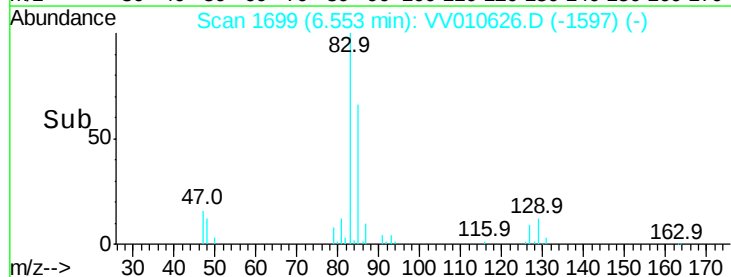
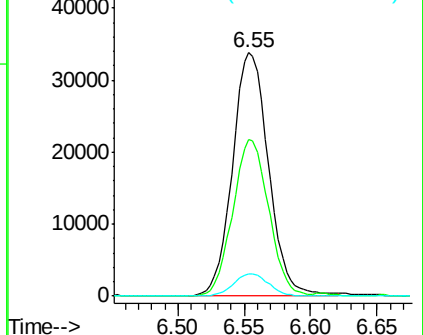
127 9.0 8.2 12.4

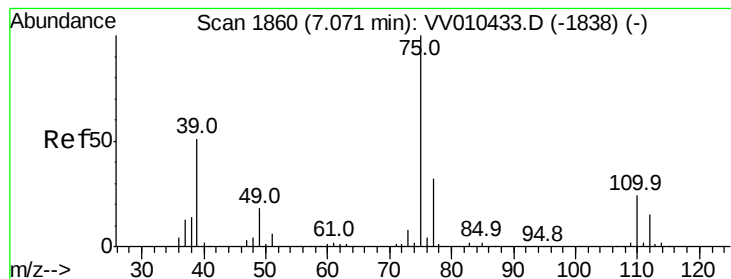


Abundance Ion 83.00 (82.70 to 83.70): VV010626.D (-1697) (-)

Ion 85.00 (84.70 to 85.70): VV010626.D (-1697) (-)

Ion 127.00 (126.70 to 127.70): VV010626.D (-1697) (-)





#42

cis-1,3-Dichloropropene

Concen: 23.253 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

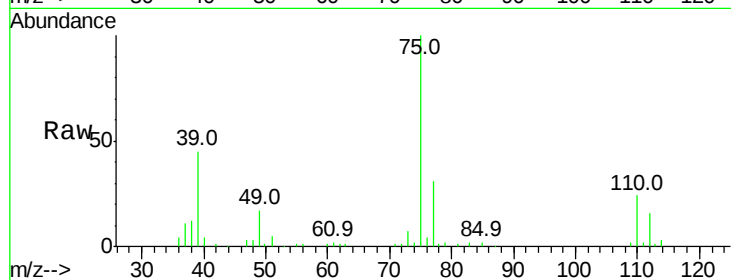
VSTD02562

Tgt Ion: 75 Resp: 67895

Ion Ratio Lower Upper

75 100

77 31.1 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VV010433.D (-1838) (-)

Ion 77.00 (76.70 to 77.70): VV010433.D (-1838) (-)

7.07

40000

30000

20000

10000

0

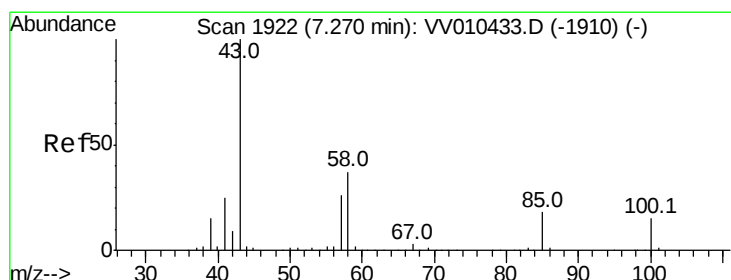
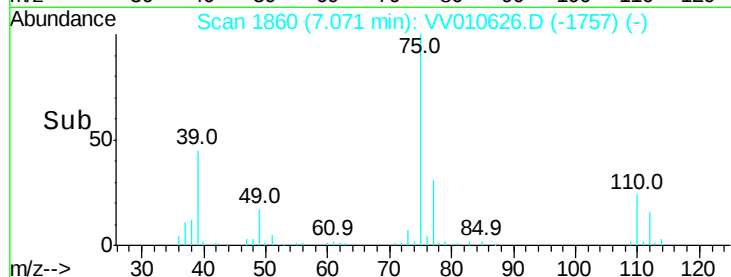
Time-->

7.00

7.05

7.10

7.15



#43

4-Methyl-2-pentanone

Concen: 50.709 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

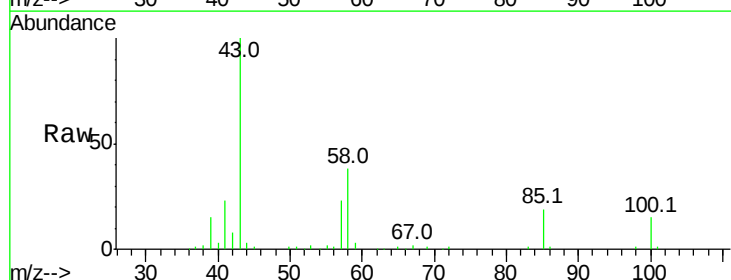
Tgt Ion: 43 Resp: 66586

Ion Ratio Lower Upper

43 100

58 37.0 30.2 45.2

100 14.0 12.9 19.3



Abundance Ion 43.00 (42.70 to 43.70): VV010433.D (-1910) (-)

Ion 58.00 (57.70 to 58.70): VV010433.D (-1910) (-)

Ion 100.00 (99.70 to 100.70): VV010433.D (-1910) (-)

7.27

100000

80000

60000

40000

20000

0

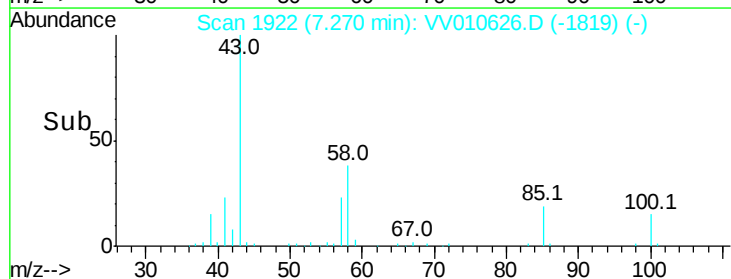
Time-->

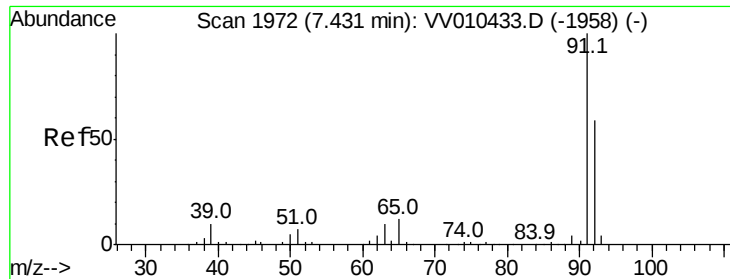
7.20

7.25

7.30

7.35





#44

Toluene

Concen: 23.458 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

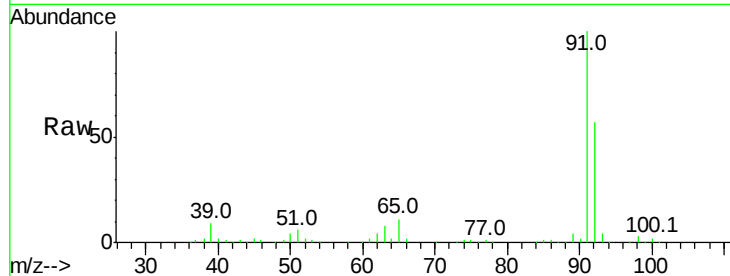
VSTD02562

Tgt Ion: 91 Resp: 203662

Ion Ratio Lower Upper

91 100

92 57.3 40.5 75.1



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

120000

100000

80000

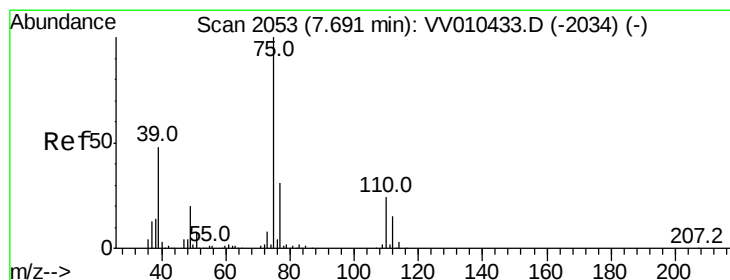
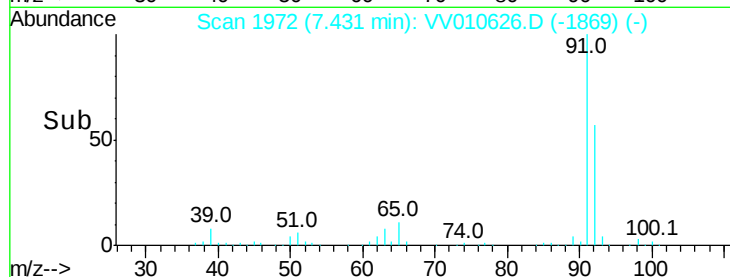
60000

40000

20000

0

Time--> 7.35 7.40 7.45 7.50 7.55



#45

trans-1,3-Dichloropropene

Concen: 23.009 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010626.D

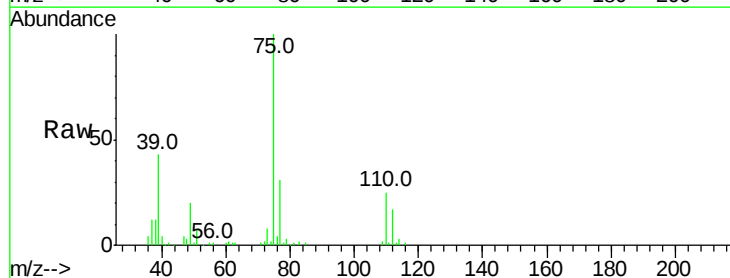
Acq: 02 May 2019 12:23

Tgt Ion: 75 Resp: 61342

Ion Ratio Lower Upper

75 100

77 31.2 23.1 42.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

40000

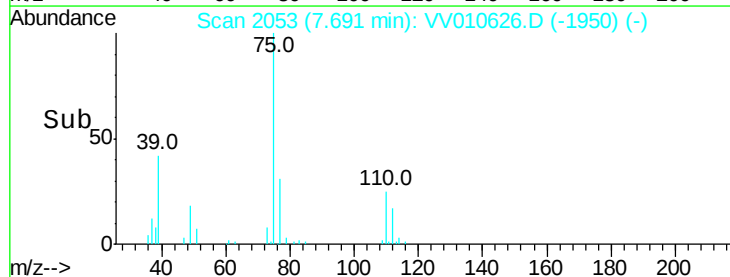
30000

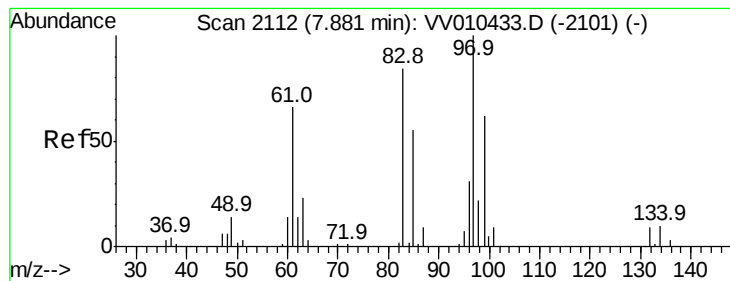
20000

10000

0

Time--> 7.60 7.65 7.70 7.75





#46

1,1,2-Trichloroethane

Concen: 24.544 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

Tgt Ion: 97 Resp: 38922

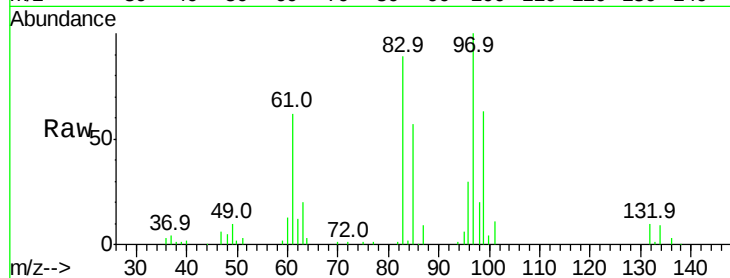
Ion Ratio Lower Upper

97 100

83 88.7 58.9 109.3

85 56.9 40.2 74.6

99 63.1 44.1 81.9

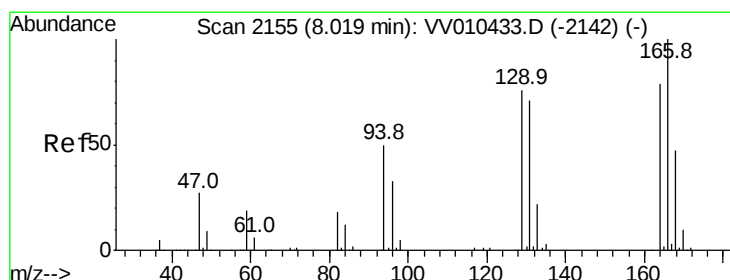
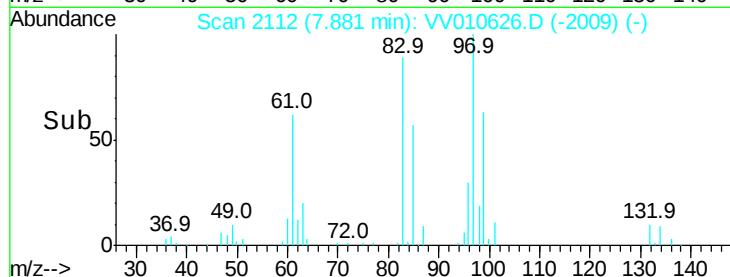
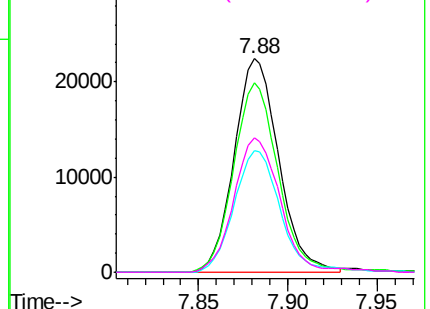


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 19.678 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Tgt Ion: 164 Resp: 38056

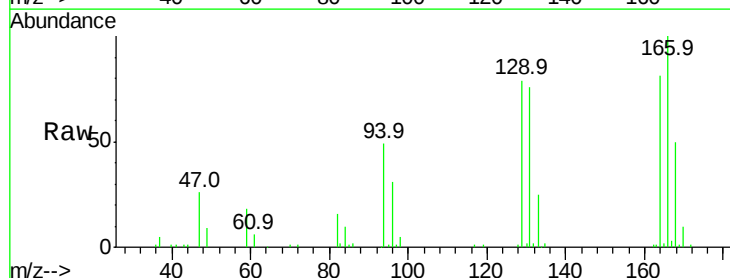
Ion Ratio Lower Upper

164 100

129 96.5 67.1 124.5

131 93.0 64.6 120.0

166 122.8 86.7 160.9

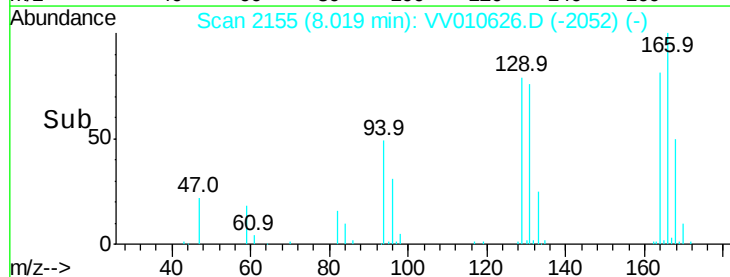
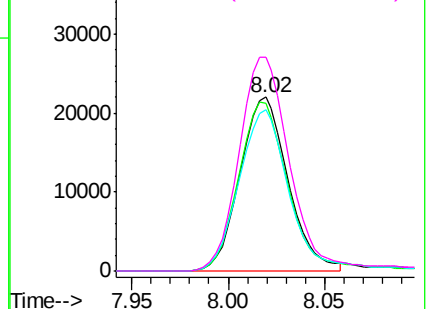


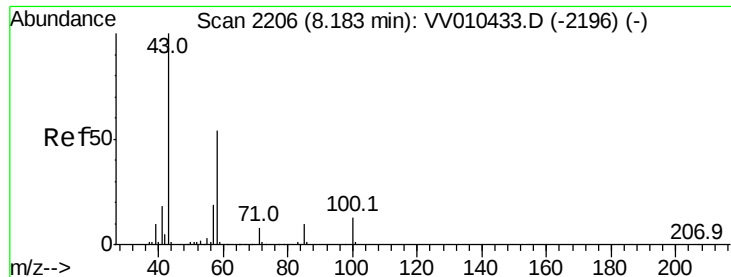
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

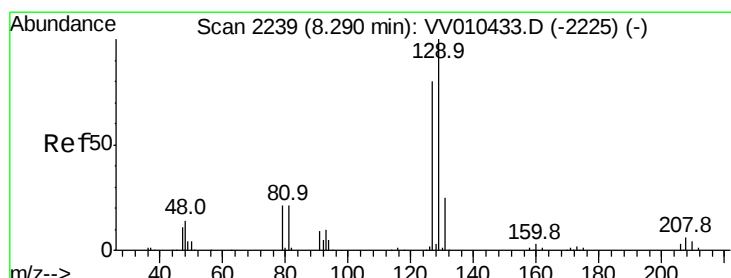
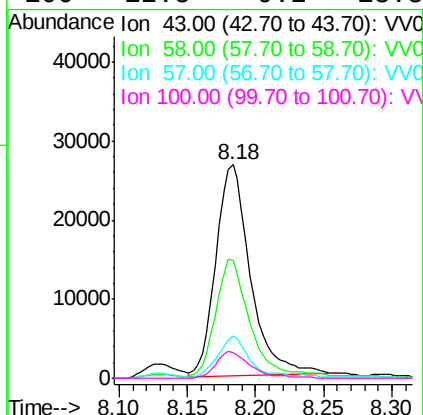
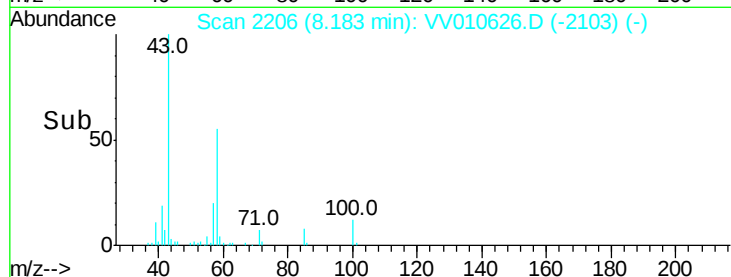
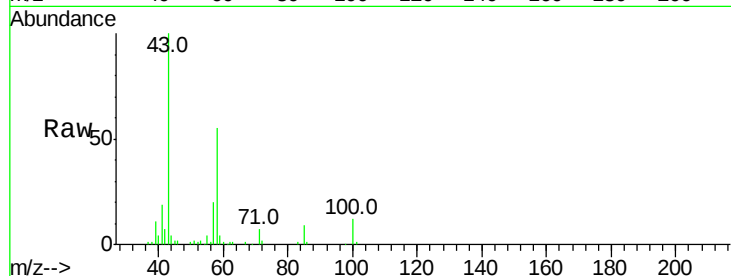




#49
2-Hexanone
Concen: 50.532 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV010626.D
Acq: 02 May 2019 12:23

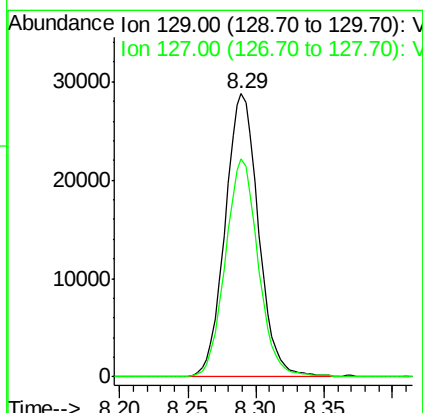
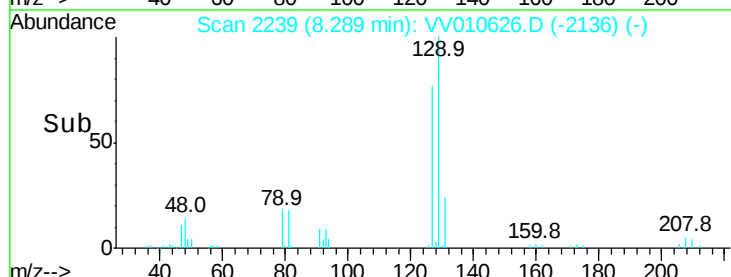
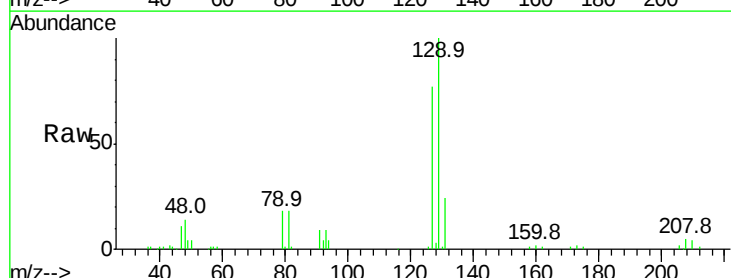
Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

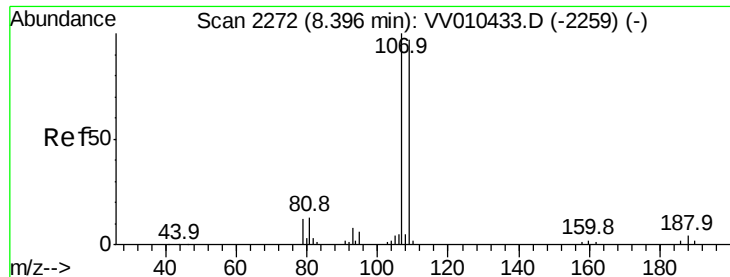
Tgt Ion: 43 Resp: 47108
Ion Ratio Lower Upper
43 100
58 53.1 37.6 56.4
57 18.0 15.8 23.8
100 12.5 9.2 13.8



#50
Dibromochloromethane
Concen: 22.889 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010626.D
Acq: 02 May 2019 12:23

Tgt Ion: 129 Resp: 48931
Ion Ratio Lower Upper
129 100
127 77.0 52.4 97.4

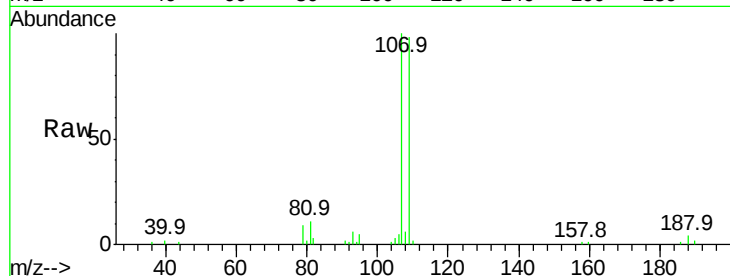




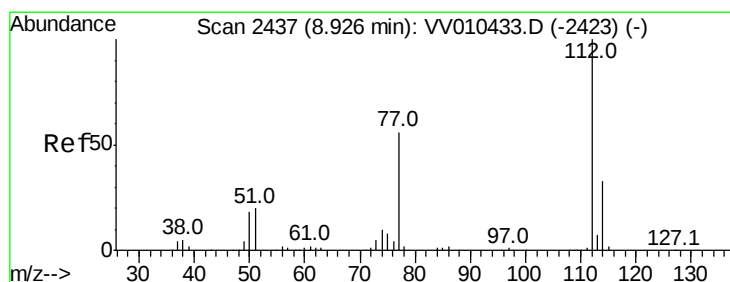
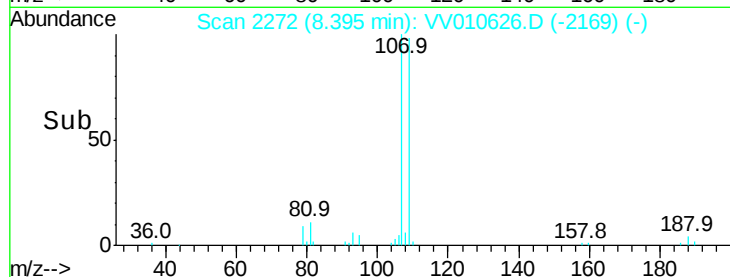
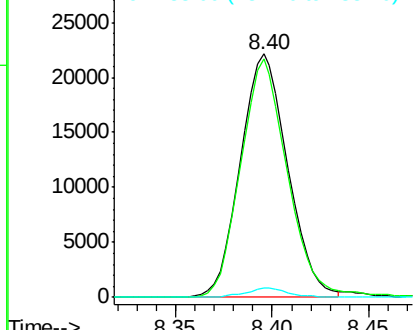
#51
 1,2-Dibromoethane
 Concen: 22.649 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion:107 Resp: 37685
 Ion Ratio Lower Upper
 107 100
 109 98.2 64.9 120.5
 188 3.7 3.0 4.6

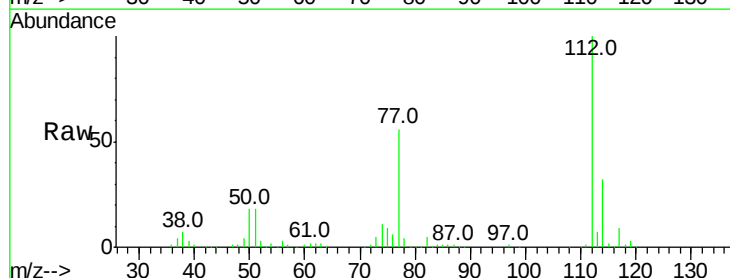


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

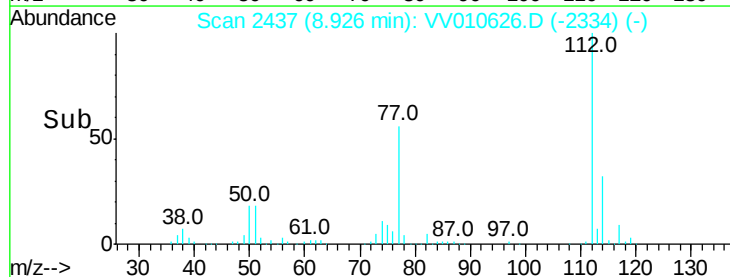
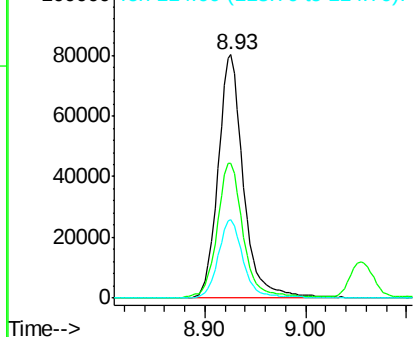


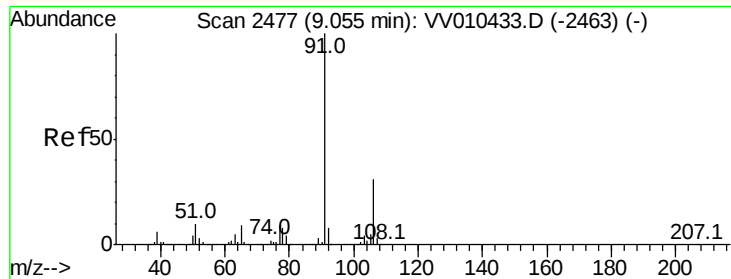
#52
 Chlorobenzene
 Concen: 23.136 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Tgt Ion:112 Resp: 140827
 Ion Ratio Lower Upper
 112 100
 77 55.6 46.2 69.2
 114 32.1 22.5 41.7



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: 22.627 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

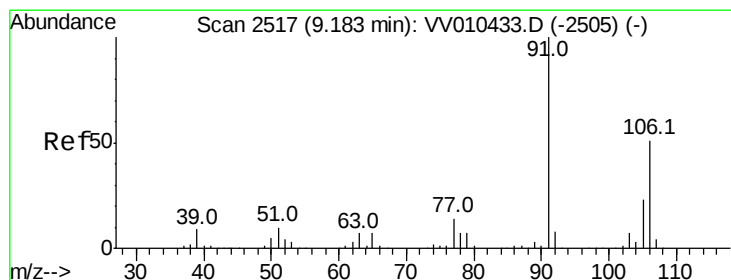
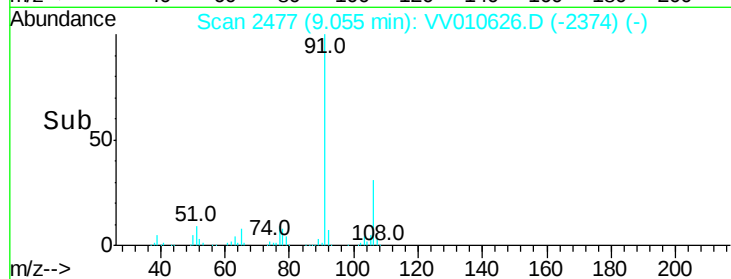
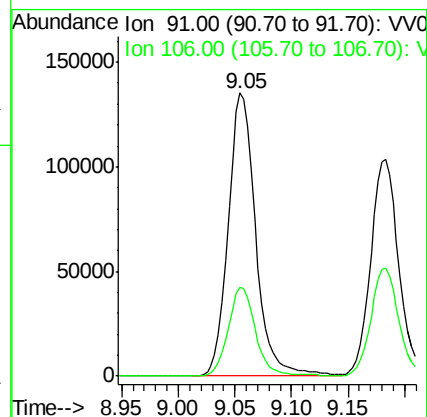
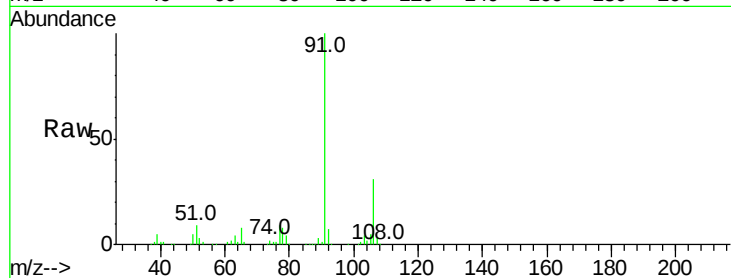
VSTD02562

Tgt Ion: 91 Resp: 229690

Ion Ratio Lower Upper

91 100

106 31.5 22.5 41.9



#54

m,p-Xylene

Concen: 22.725 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV010626.D

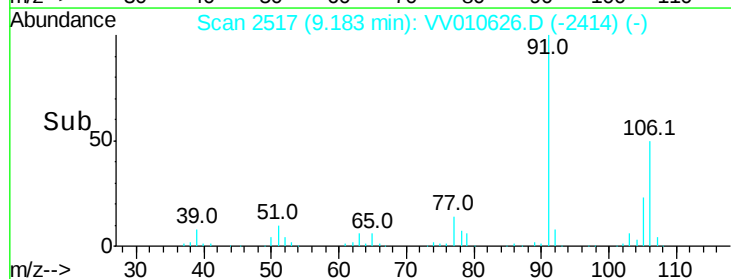
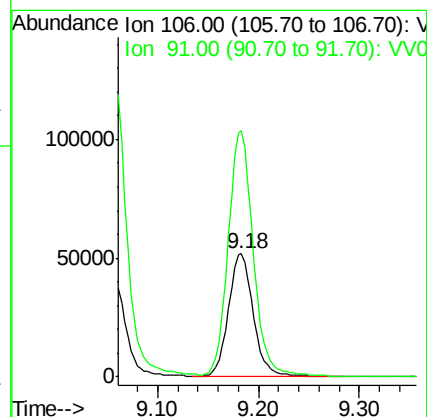
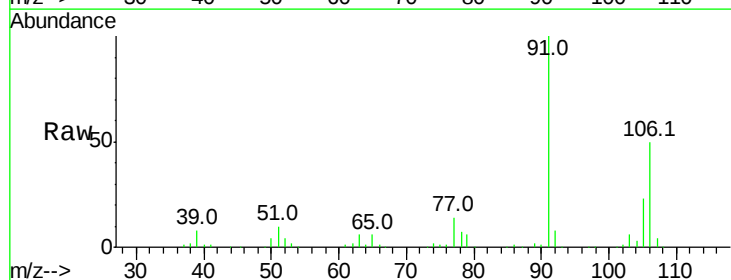
Acq: 02 May 2019 12:23

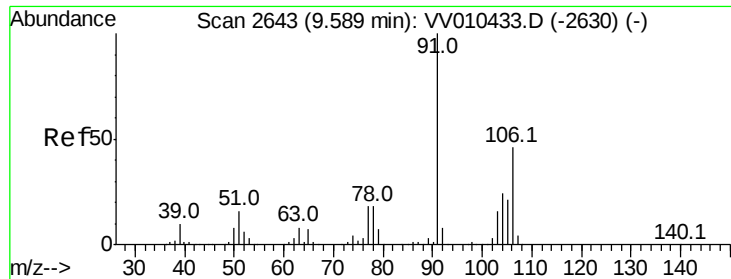
Tgt Ion: 106 Resp: 90431

Ion Ratio Lower Upper

106 100

91 200.6 142.5 264.7

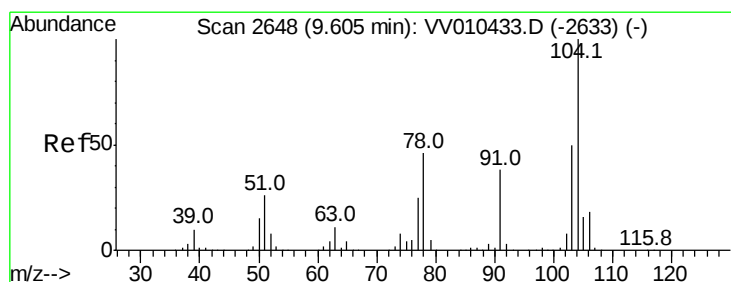
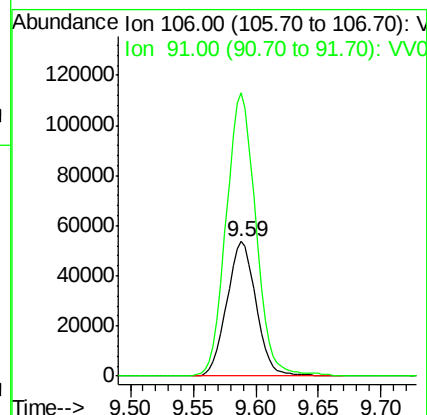
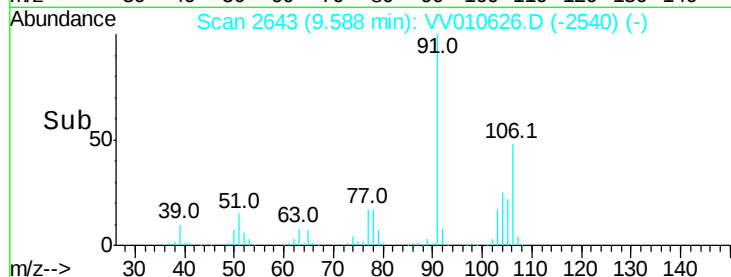
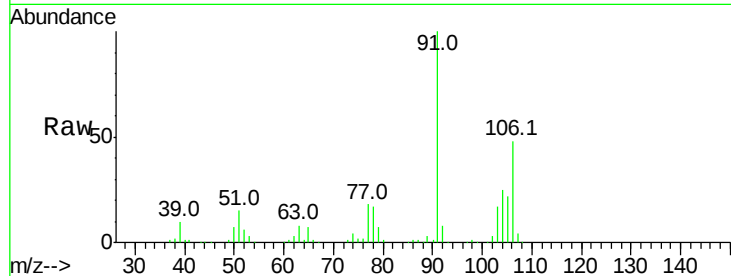




#55
o-xylene
Concen: 22.076 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV010626.D
Acq: 02 May 2019 12:23

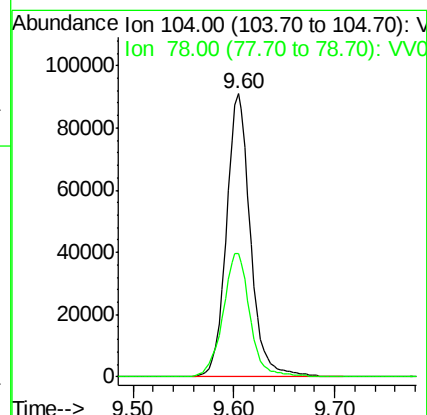
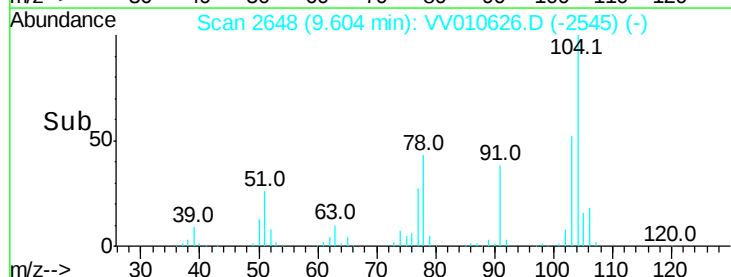
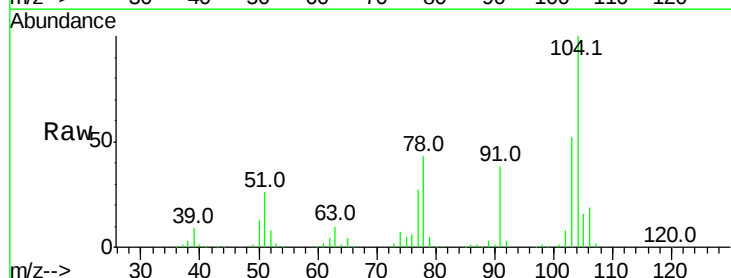
Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

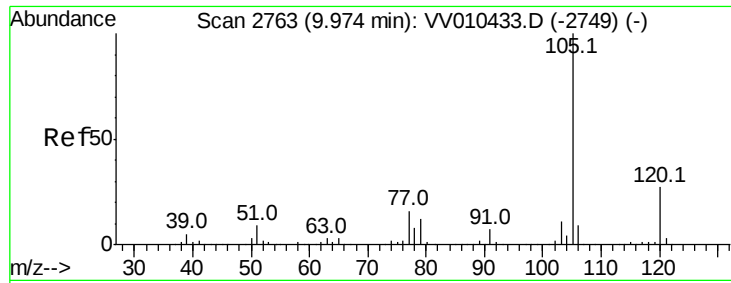
Tgt Ion:106 Resp: 87508
Ion Ratio Lower Upper
106 100
91 210.4 148.5 275.9



#56
Styrene
Concen: 23.183 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV010626.D
Acq: 02 May 2019 12:23

Tgt Ion:104 Resp: 151615
Ion Ratio Lower Upper
104 100
78 43.5 33.3 61.9





#57

Isopropylbenzene

Concen: 21.556 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

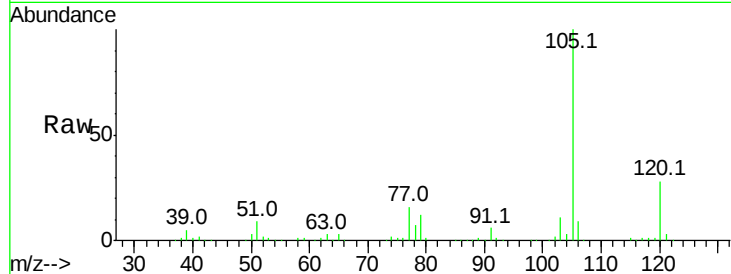
Tgt Ion:105 Resp: 230843

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.0

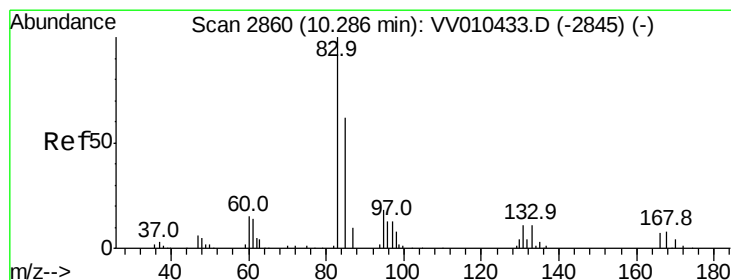
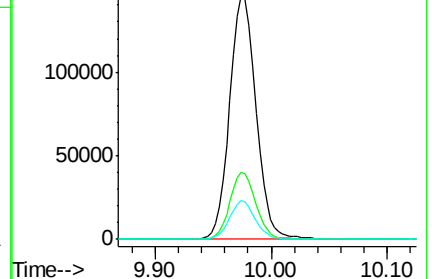
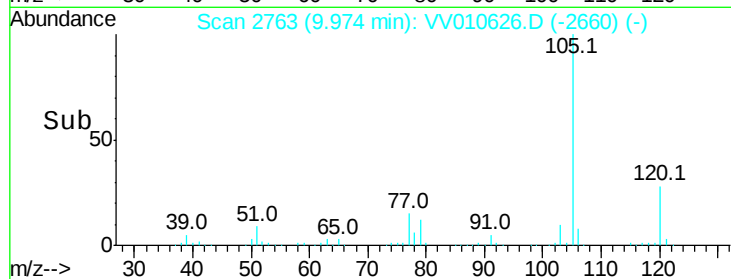
77 15.4 12.9 19.3



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: 23.783 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

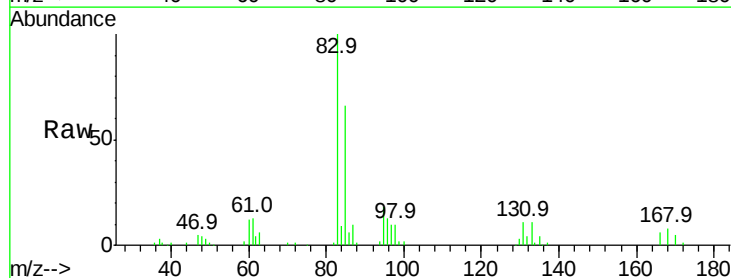
Tgt Ion: 83 Resp: 48860

Ion Ratio Lower Upper

83 100

85 66.4 43.6 81.0

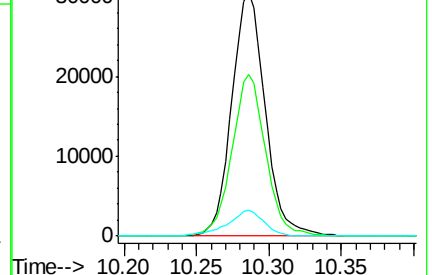
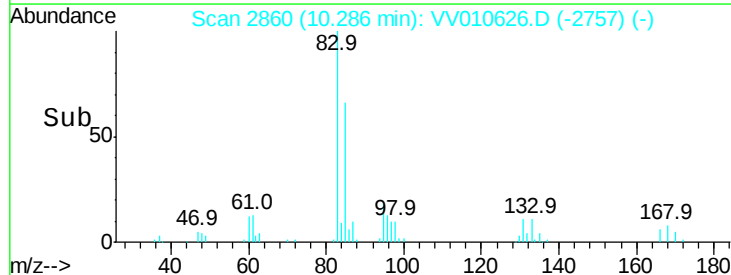
131 10.5 9.8 14.6

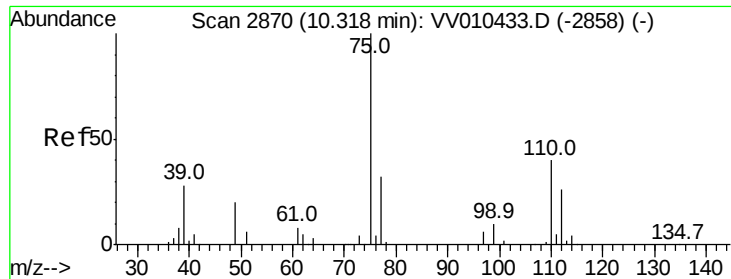


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

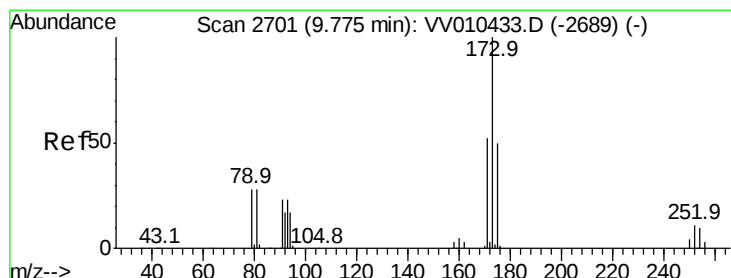
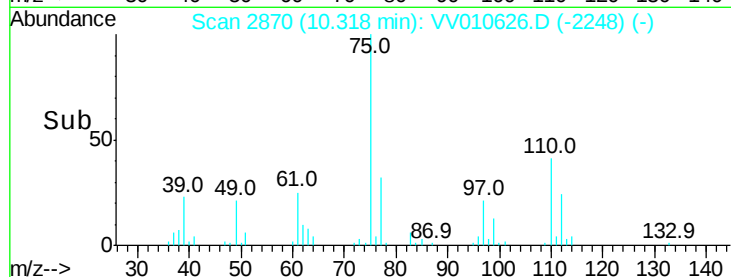
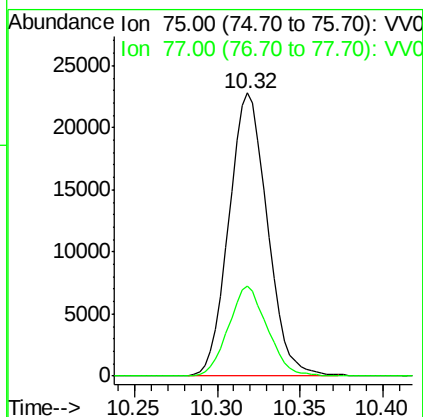
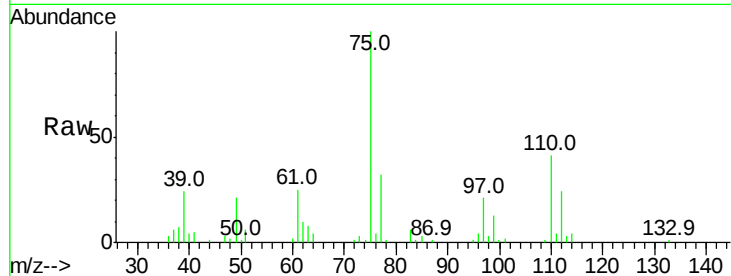




#59
 1,2,3-Trichloropropane
 Concen: 24.180 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

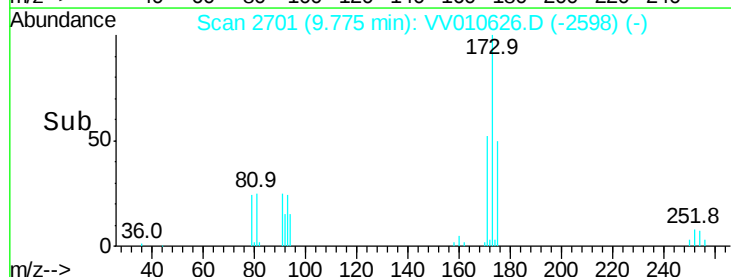
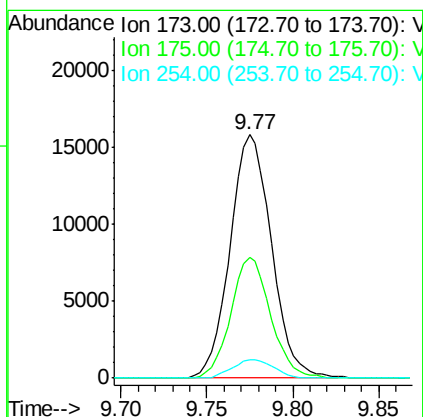
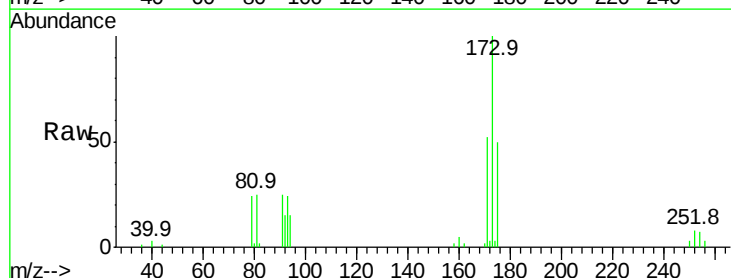
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

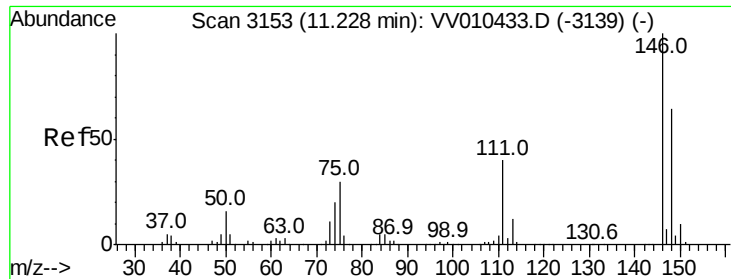
Tgt Ion: 75 Resp: 36804
 Ion Ratio Lower Upper
 75 100
 77 32.0 26.2 39.2



#62
 Bromoform
 Concen: 22.138 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Tgt Ion: 173 Resp: 26578
 Ion Ratio Lower Upper
 173 100
 175 47.4 39.3 58.9
 254 7.4 8.2 12.4#





#63

1,3-Dichlorobenzene

Concen: 23.112 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

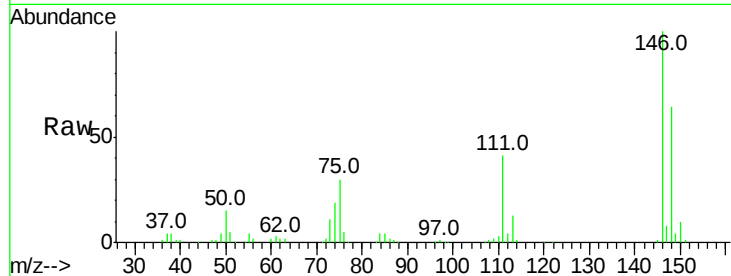
Tgt Ion:146 Resp: 108347

Ion Ratio Lower Upper

146 100

111 40.5 28.8 53.4

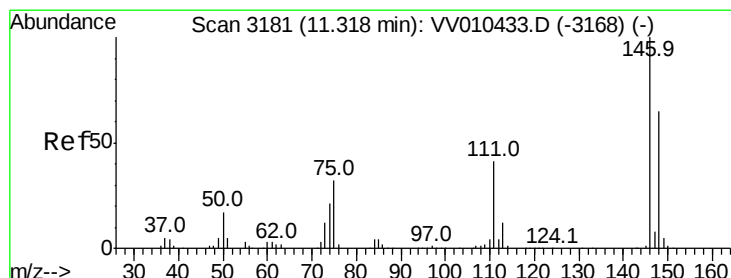
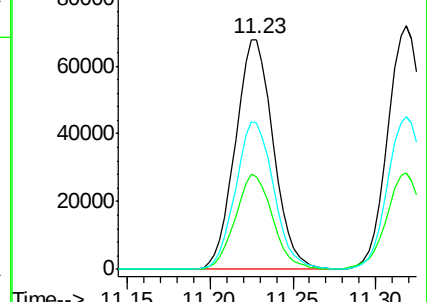
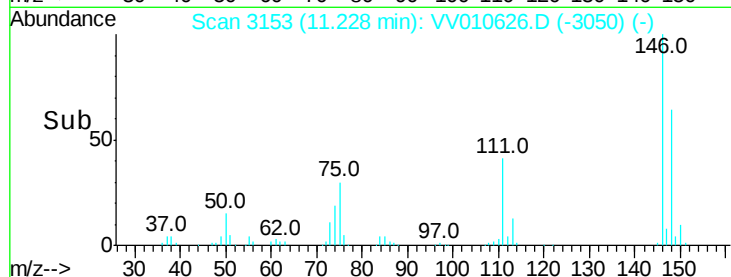
148 63.5 45.6 84.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 23.524 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

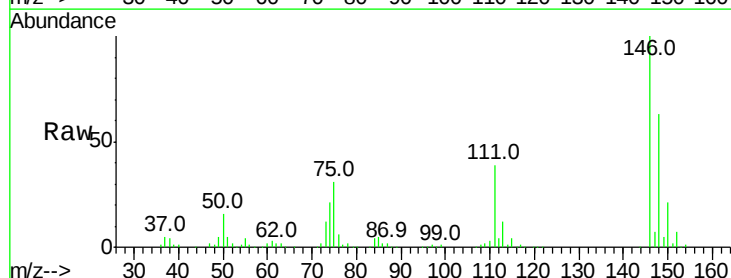
Tgt Ion:146 Resp: 112894

Ion Ratio Lower Upper

146 100

111 39.5 26.9 49.9

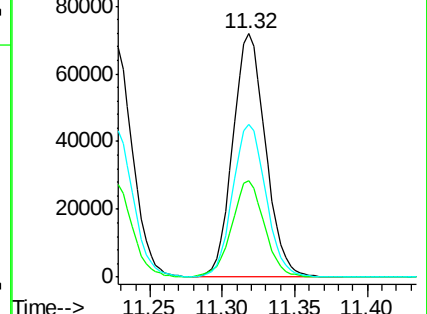
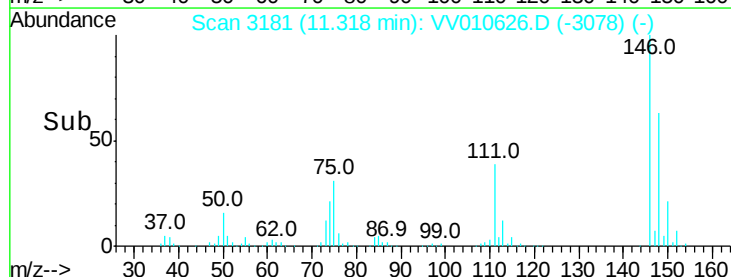
148 62.9 45.6 84.6

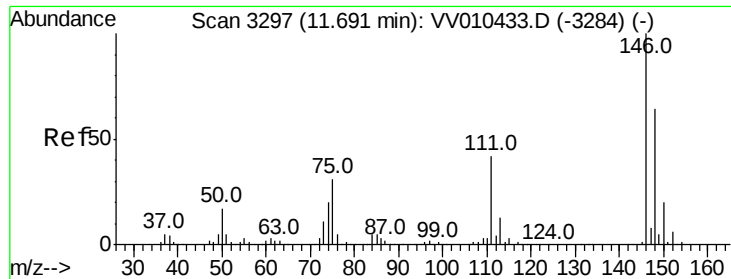


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 24.322 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

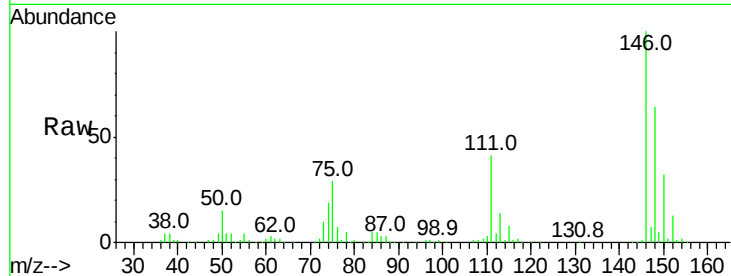
Tgt Ion:146 Resp: 110802

Ion Ratio Lower Upper

146 100

111 40.9 32.9 49.3

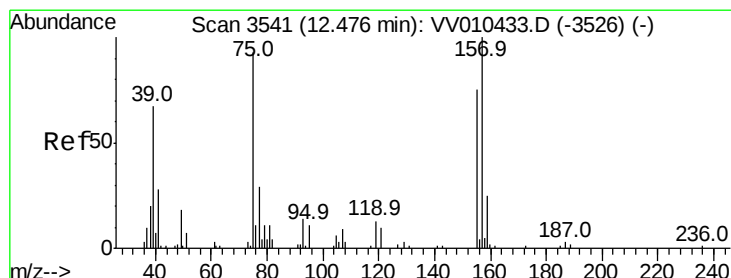
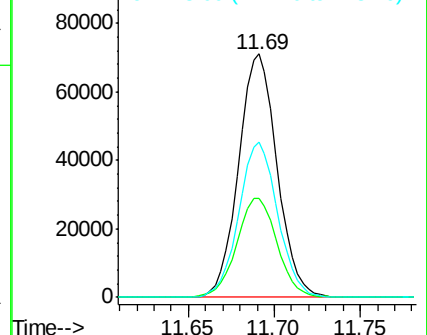
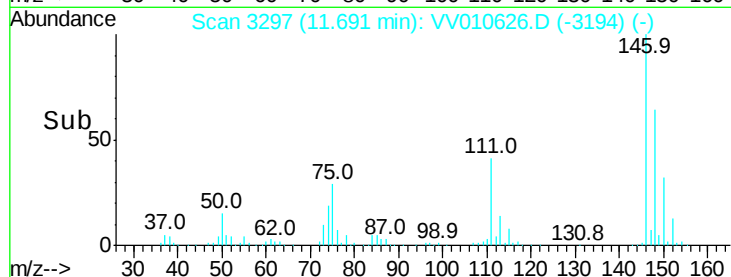
148 63.8 51.4 77.2



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: 25.363 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

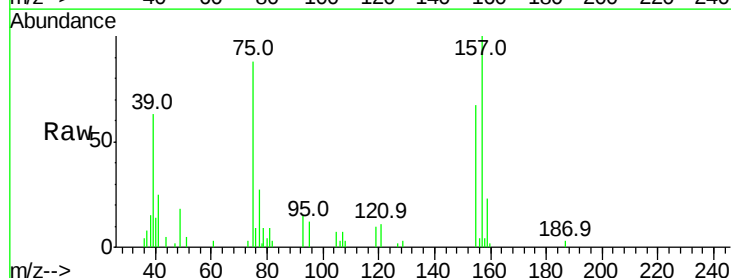
Tgt Ion: 75 Resp: 7658

Ion Ratio Lower Upper

75 100

157 113.9 88.2 132.2

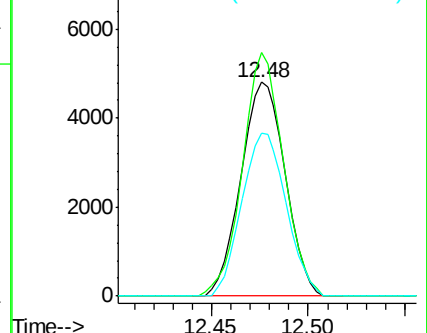
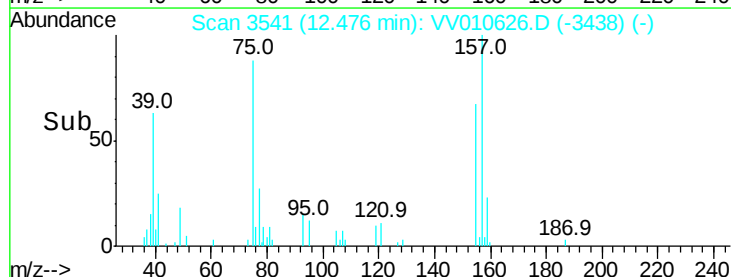
155 76.3 66.4 99.6

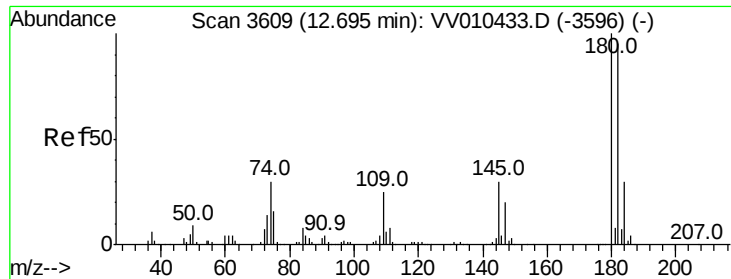


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

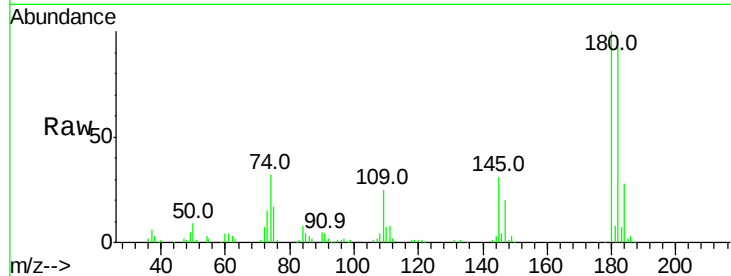




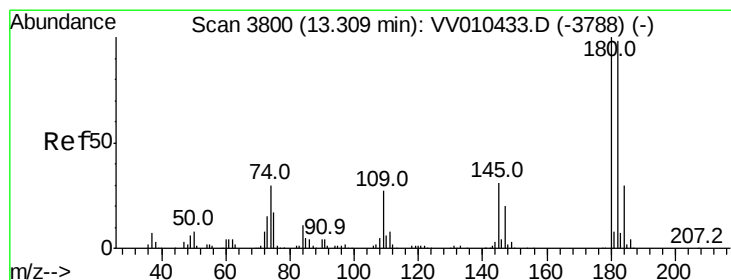
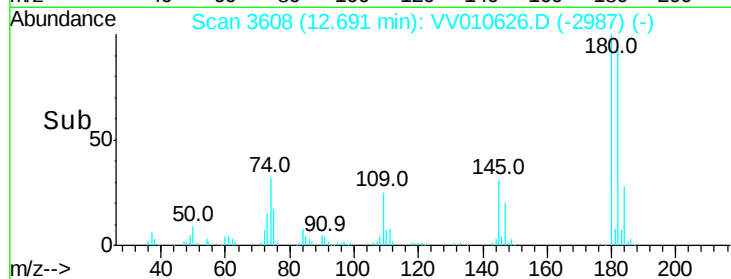
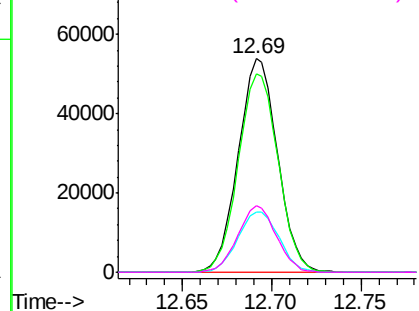
#67
 1,3,5-Trichlorobenzene
 Concen: 21.998 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion:180 Resp: 82410
 Ion Ratio Lower Upper
 180 100
 182 94.0 76.2 114.2
 184 29.7 24.1 36.1
 145 30.6 24.5 36.7

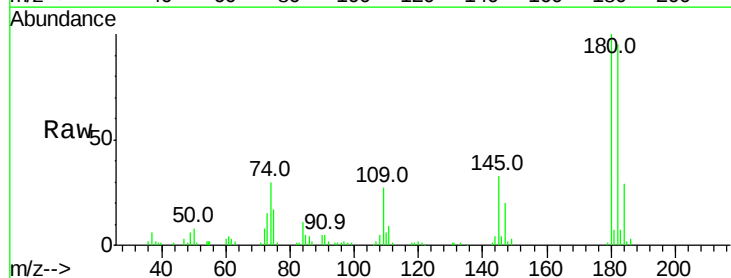


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

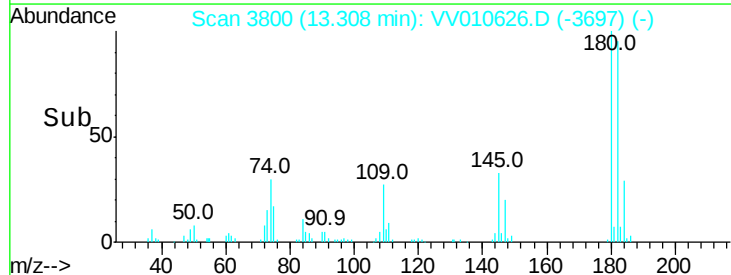
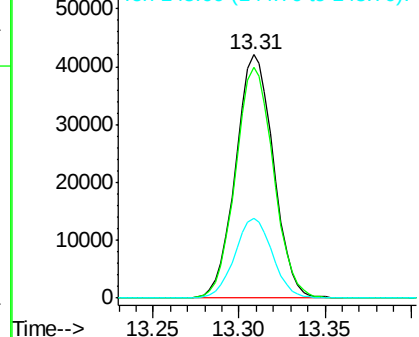


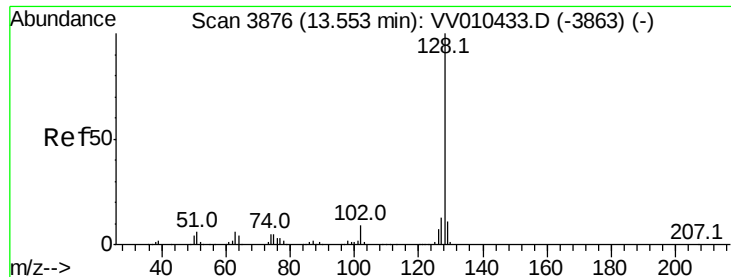
#68
 1,2,4-trichlorobenzene
 Concen: 22.859 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010626.D
 Acq: 02 May 2019 12:23

Tgt Ion:180 Resp: 64599
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.3 114.5
 145 32.5 25.1 37.7



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: 27.290 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

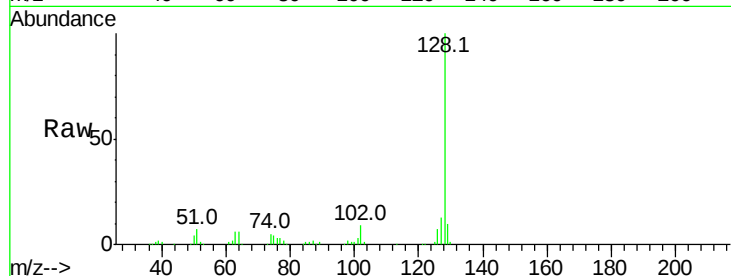
Tgt Ion:128 Resp: 123949

Ion Ratio Lower Upper

128 100

129 10.8 8.4 12.6

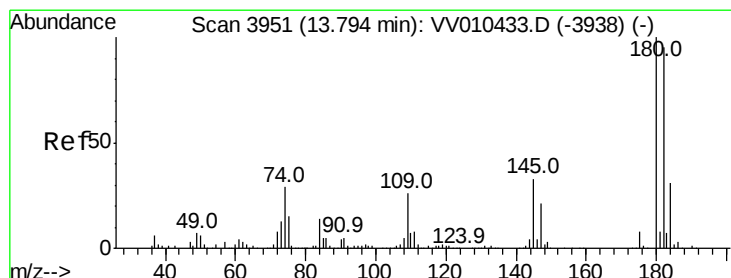
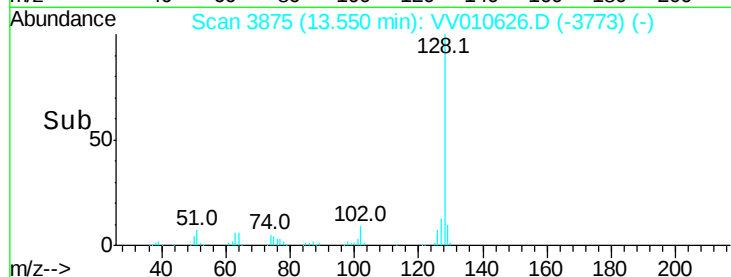
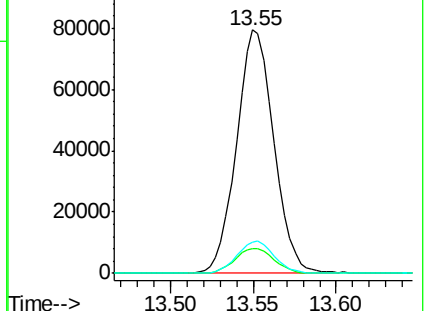
127 13.2 10.2 15.2



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: 23.180 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV010626.D

Acq: 02 May 2019 12:23

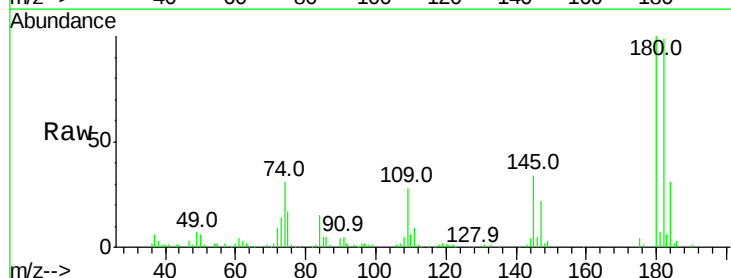
Tgt Ion:180 Resp: 60632

Ion Ratio Lower Upper

180 100

182 98.8 76.6 114.8

145 35.3 25.8 38.8



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

