

Data File : VV010932.D
Acq On : 16 May 2019 15:43
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

Quant Time: May 17 05:22:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Fri May 17 05:18:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	141112	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	141336	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	70165	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	44723	24.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.52%
7) Chloroethane-d5	1.56	69	31855	27.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	108.76%
10) 1,1-Dichloroethene-d2	2.12	63	85666	25.18	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.72%
20) 2-Butanone-d5	3.94	46	29926	52.91	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.82%
24) Chloroform-d	4.40	84	89844	22.05	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.20%
26) 1,2-Dichloroethane-d4	5.08	65	51605	22.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.12%
29) Benzene-d6	5.09	84	190595	24.36	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.44%
33) 1,2-Dichloropropane-d6	6.12	67	58716	23.52	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.08%
37) Toluene-d8	7.36	98	181405	24.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.52%
38) trans-1,3-Dichloropropene-	7.66	79	24501	22.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.00%
39) 2-Hexanone-d5	8.13	63	19969	42.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.44%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	58733	25.37	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.48%
61) 1,2-Dichlorobenzene-d4	11.67	152	67013	22.87	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.48%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	48068	30.704	ug/L 100
3) Chloromethane	1.25	50	45471	24.251	ug/L 99
5) Vinyl chloride	1.32	62	51031	25.280	ug/L 96
6) Bromomethane	1.51	94	13499	28.811	ug/L 97
8) Chloroethane	1.58	64	27541	26.379	ug/L 96
9) Trichlorofluoromethane	1.76	101	77511	26.824	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	46766	26.832	ug/L 99
12) 1,1-Dichloroethene	2.13	96	40765	25.069	ug/L 96
13) Acetone	2.19	43	29673	51.505	ug/L 95
14) Carbon disulfide	2.31	76	113693	23.212	ug/L 99
15) Methyl Acetate	2.46	43	23397	19.498	ug/L 94
16) Methylene chloride	2.53	84	48734	21.400	ug/L 98
17) Methyl tert-butyl Ether	2.81	73	121936	22.965	ug/L 99
18) trans-1,2-Dichloroethene	2.78	96	47373	24.456	ug/L 99
19) 1,1-Dichloroethane	3.22	63	89068	23.750	ug/L 100
21) 2-Butanone	4.02	43	36486	49.062	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	53260	23.495	ug/L 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	24683	23.375	ug/L	95
25) Chloroform	4.42	83	96433	23.705	ug/L	100
27) 1,2-Dichloroethane	5.18	62	60273	21.235	ug/L #	95
30) Cyclohexane	4.72	56	77598	28.557	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	79506	25.900	ug/L	98
32) Carbon tetrachloride	4.87	117	71539	27.310	ug/L	100
34) Benzene	5.14	78	200095	24.290	ug/L	100
35) Trichloroethene	5.96	95	53645	25.126	ug/L	98
36) Methylcyclohexane	6.17	83	85512	28.781	ug/L	99
40) 1,2-Dichloropropane	6.22	63	54262	24.184	ug/L	99
41) Bromodichloromethane	6.55	83	66465	23.102	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	78192	23.888	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	76733	48.426	ug/L	96
44) Toluene	7.43	91	228441	24.947	ug/L	96
45) trans-1,3-Dichloropropene	7.69	75	65392	23.637	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	42296	23.407	ug/L	90
47) Tetrachloroethene	8.02	164	41831	26.516	ug/L	94
49) 2-Hexanone	8.18	43	58424	49.924	ug/L	97
50) Dibromochloromethane	8.29	129	49187	24.472	ug/L	99
51) 1,2-Dibromoethane	8.40	107	41147	24.171	ug/L	96
52) Chlorobenzene	8.92	112	148770	23.855	ug/L	99
53) Ethylbenzene	9.05	91	257509	25.669	ug/L	98
54) m,p-Xylene	9.18	106	100631	25.460	ug/L	99
55) o-xylene	9.59	106	96498	24.850	ug/L	100
56) Styrene	9.60	104	168055	25.238	ug/L	99
57) Isopropylbenzene	9.97	105	259852	26.732	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	58758	24.622	ug/L	94
59) 1,2,3-Trichloropropane	10.32	75	41199	23.827	ug/L	99
62) Bromoform	9.77	173	27810	25.392	ug/L #	99
63) 1,3-Dichlorobenzene	11.22	146	115940	23.915	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	118389	23.573	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	111174	22.986	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	8830	24.377	ug/L	86
67) 1,3,5-Trichlorobenzene	12.69	180	86016	24.346	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	67707	23.733	ug/L	97
69) Naphthalene	13.55	128	140258	23.470	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	65239	24.027	ug/L	100

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

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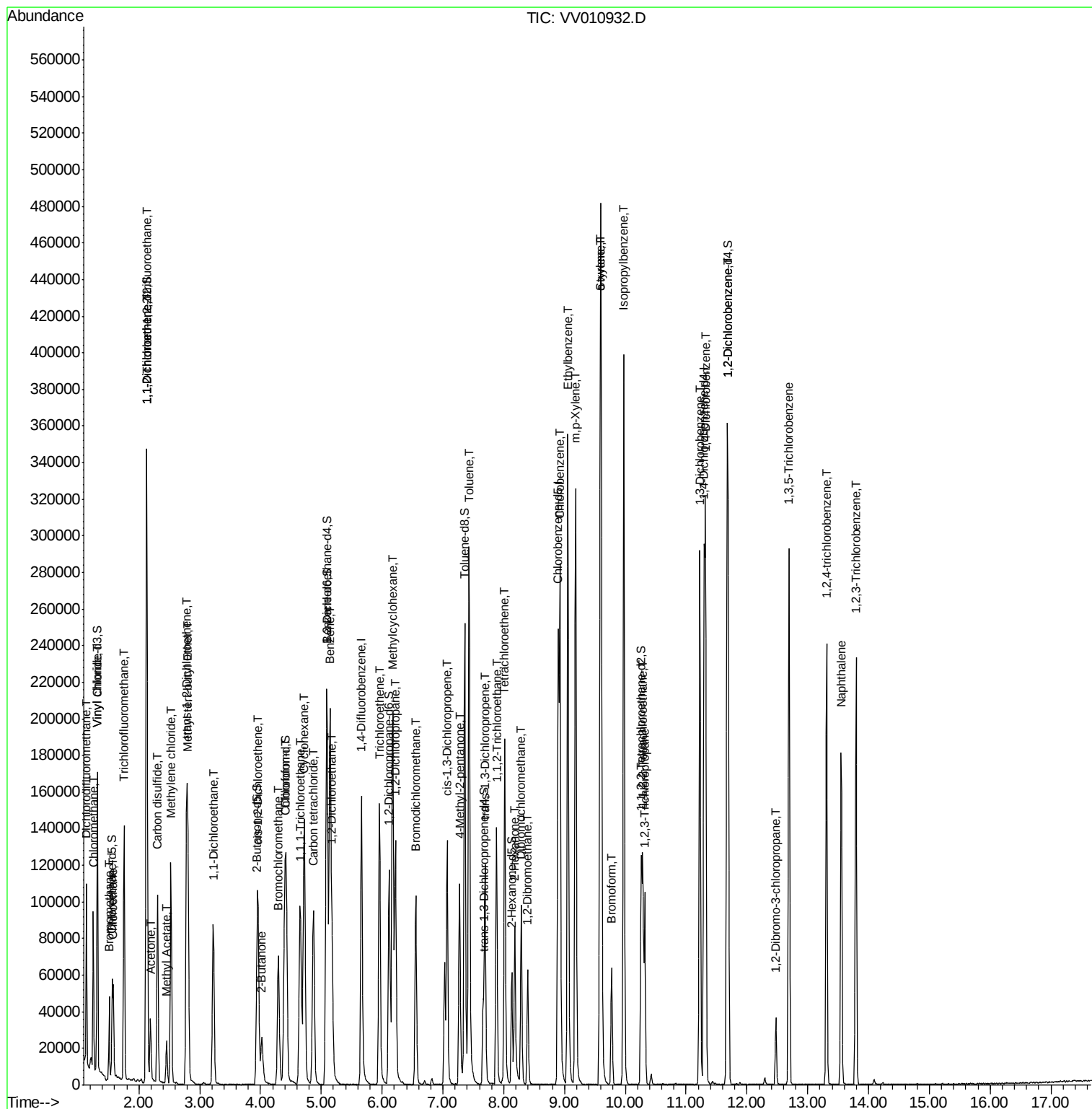
Quant Time: May 17 05:22:37 2019

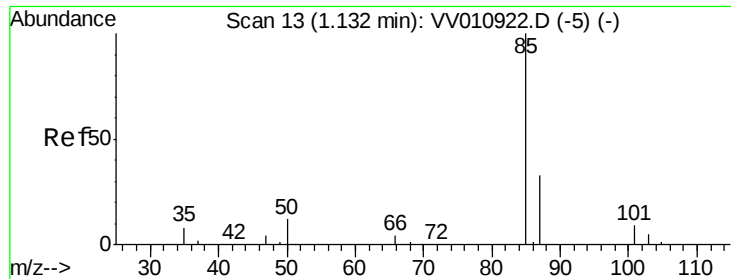
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM051319S.M

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 30.704 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

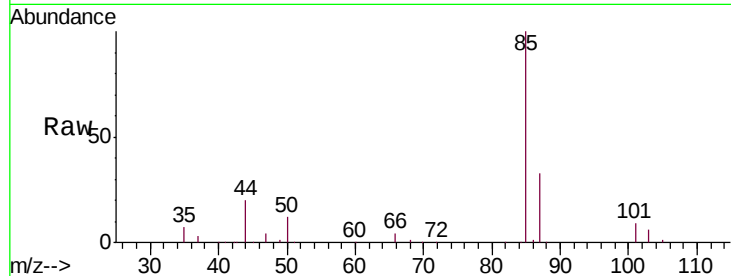
VSTD02563

Tgt Ion: 85 Resp: 48068

Ion Ratio Lower Upper

85 100

87 32.8 23.0 42.6



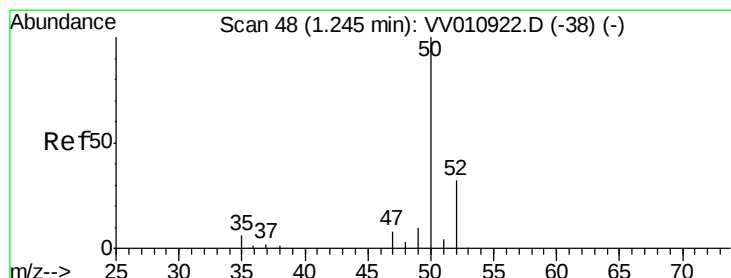
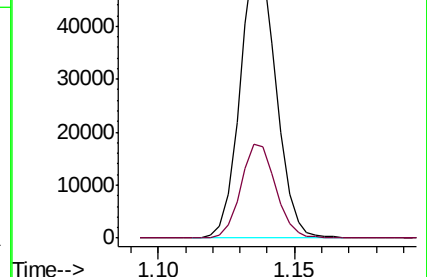
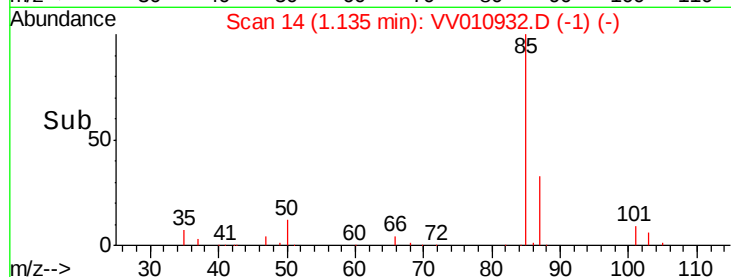
Abundance Ion 85.00 (84.70 to 85.70): VV010932.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV010932.D (-1) (-)

1.14

1.15

Time-->



#3

Chloromethane

Concen: 24.251 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.01 min

Lab File: VV010932.D

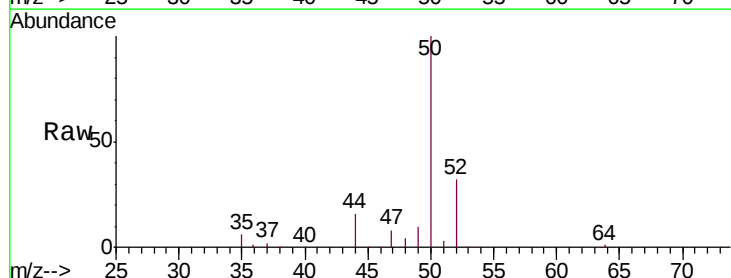
Acq: 16 May 2019 15:43

Tgt Ion: 50 Resp: 45471

Ion Ratio Lower Upper

50 100

52 31.8 22.5 41.7



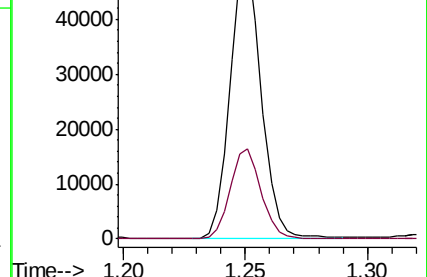
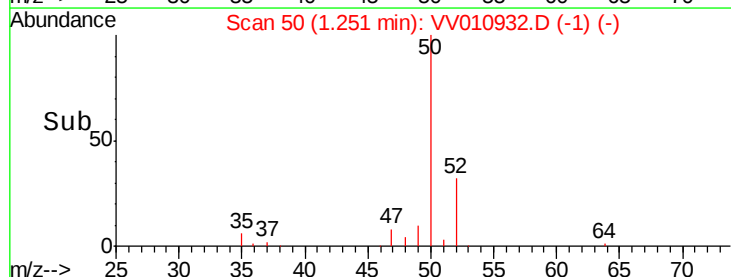
Abundance Ion 50.00 (49.70 to 50.70): VV010932.D (-1) (-)

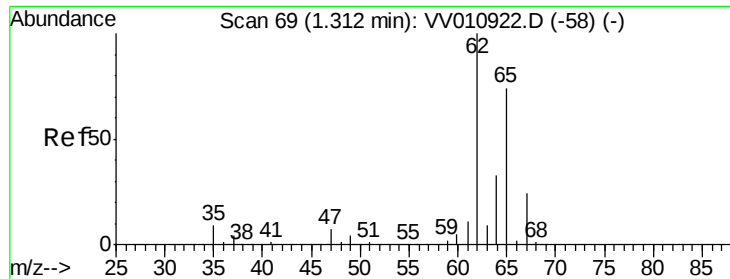
Ion 52.00 (51.70 to 52.70): VV010932.D (-1) (-)

1.25

1.30

Time-->





#5

Vinyl chloride

Concen: 25.280 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

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ClientSampleId :

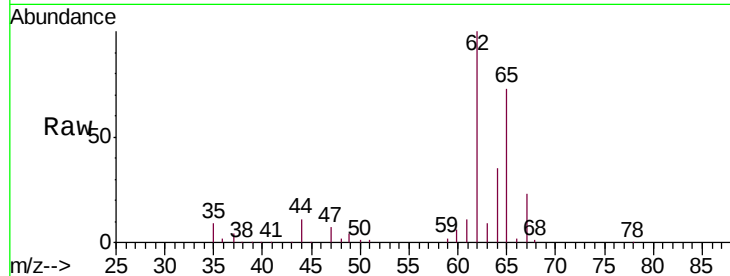
VSTD02563

Tgt Ion: 62 Resp: 51031

Ion Ratio Lower Upper

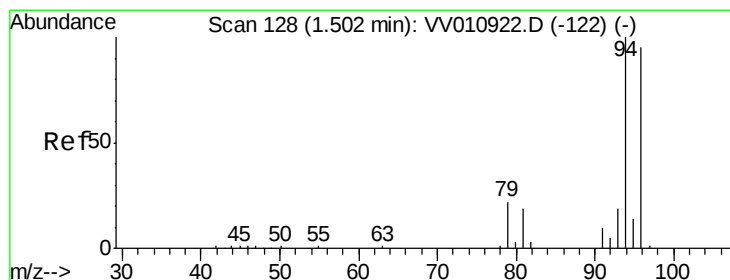
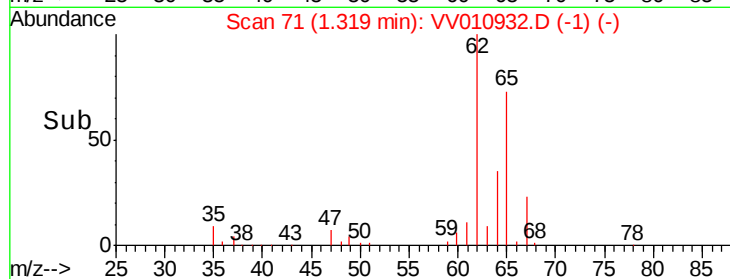
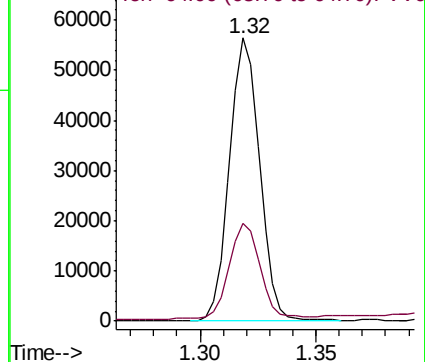
62 100

64 34.6 26.1 48.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 28.811 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.01 min

Lab File: VV010932.D

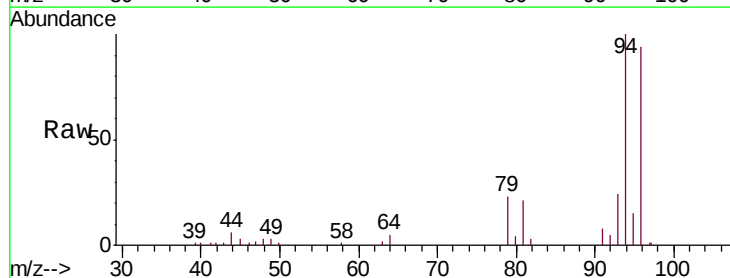
Acq: 16 May 2019 15:43

Tgt Ion: 94 Resp: 13499

Ion Ratio Lower Upper

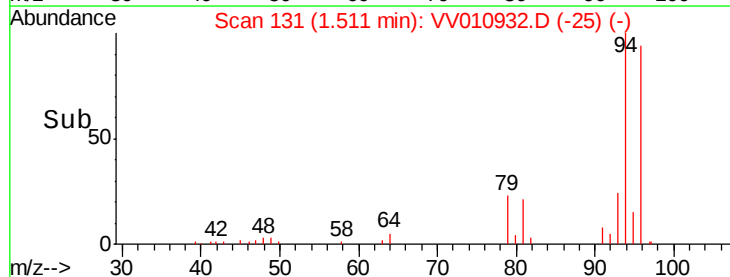
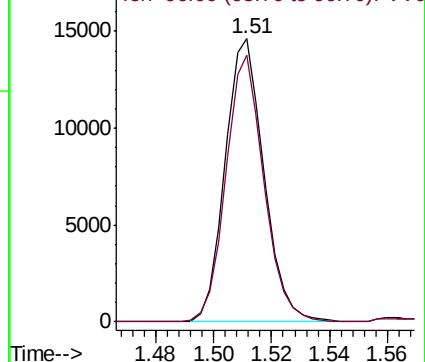
94 100

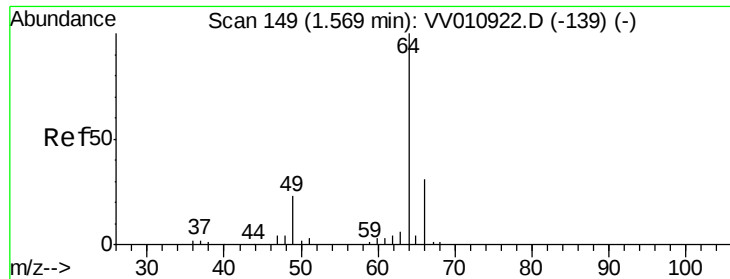
96 92.3 9.6 181.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 26.379 ug/L

RT: 1.58 min Scan# 152

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

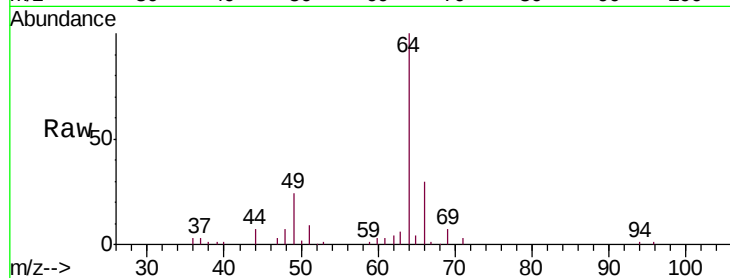
VSTD02563

Tgt Ion: 64 Resp: 27541

Ion Ratio Lower Upper

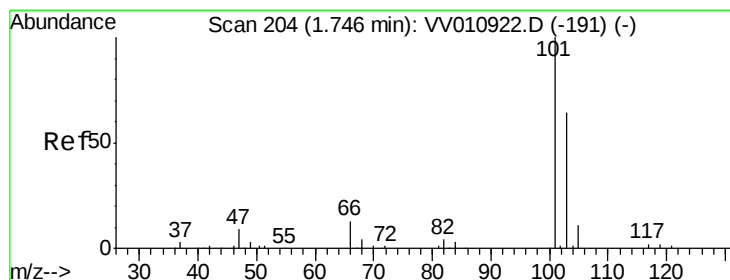
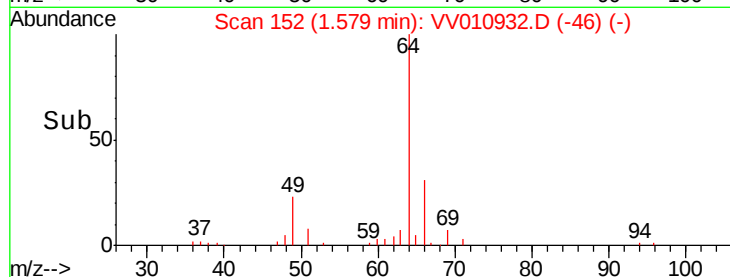
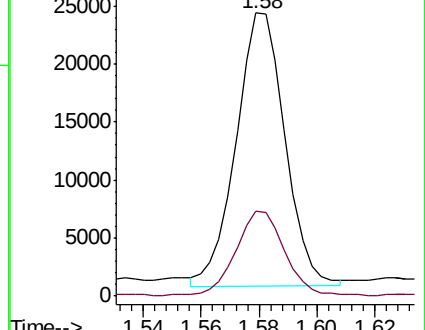
64 100

66 30.1 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV010932.D (-139) (-)

Ion 66.00 (65.70 to 66.70): VV010932.D (-139) (-)



#9

Trichlorofluoromethane

Concen: 26.824 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.01 min

Lab File: VV010932.D

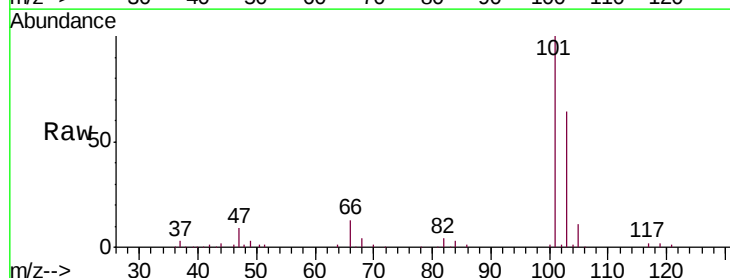
Acq: 16 May 2019 15:43

Tgt Ion: 101 Resp: 77511

Ion Ratio Lower Upper

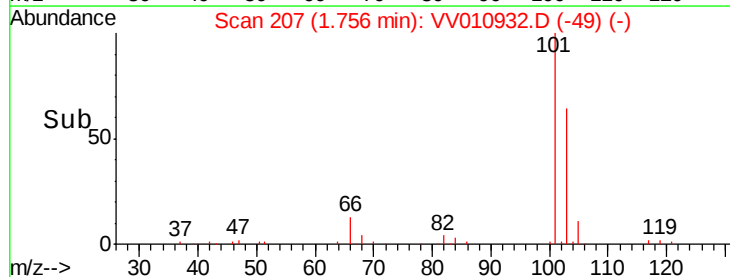
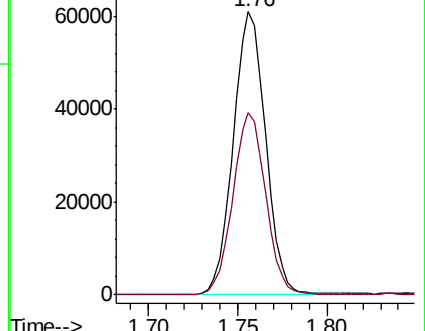
101 100

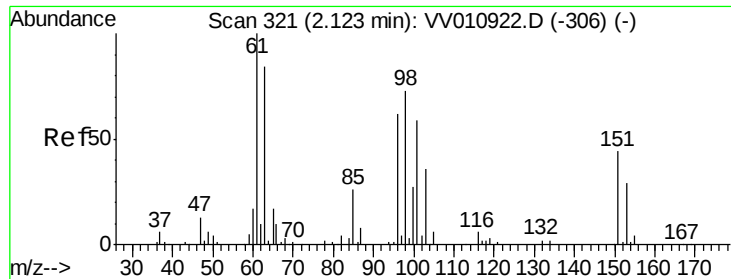
103 64.8 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): VV010932.D (-191) (-)

Ion 103.00 (102.70 to 103.70): VV010932.D (-191) (-)





#11

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

Concen: 26.832 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

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ClientSampleId :

VSTD02563

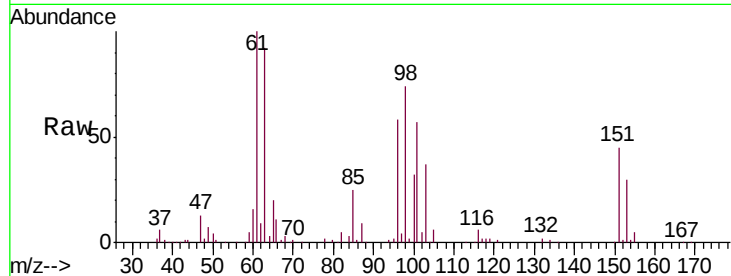
Tgt Ion: 101 Resp: 46766

Ion Ratio Lower Upper

101 100

85 44.0 35.7 53.5

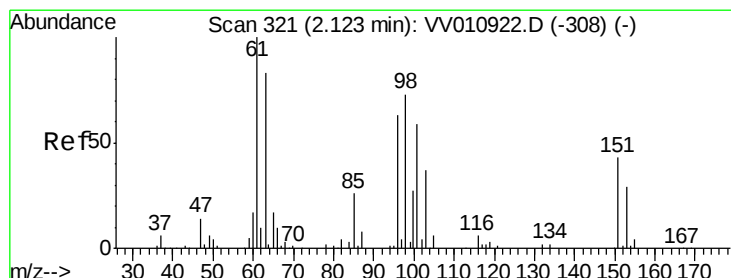
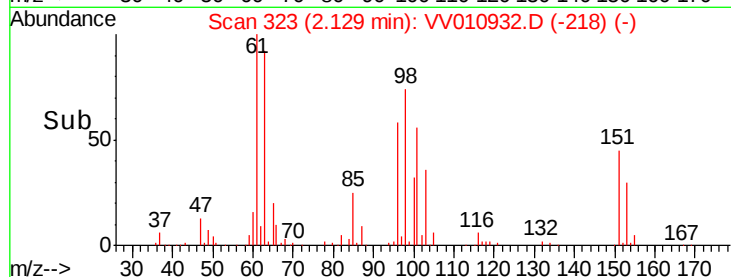
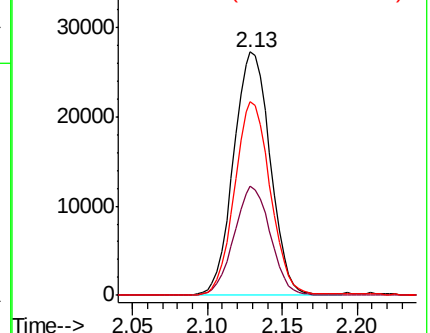
151 77.3 62.2 93.2



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: 25.069 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

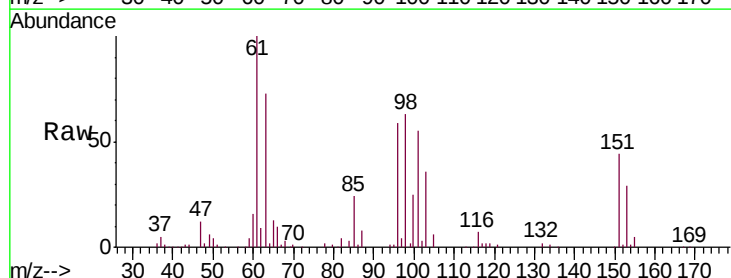
Tgt Ion: 96 Resp: 40765

Ion Ratio Lower Upper

96 100

61 170.5 117.5 218.3

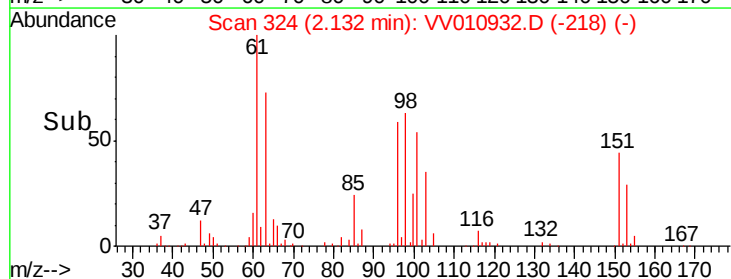
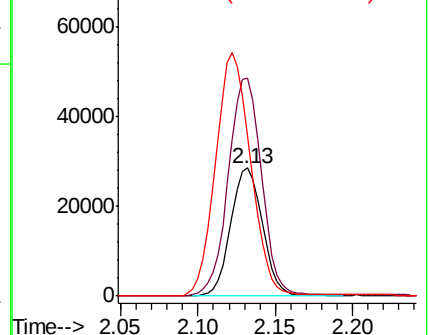
63 125.2 82.8 153.8

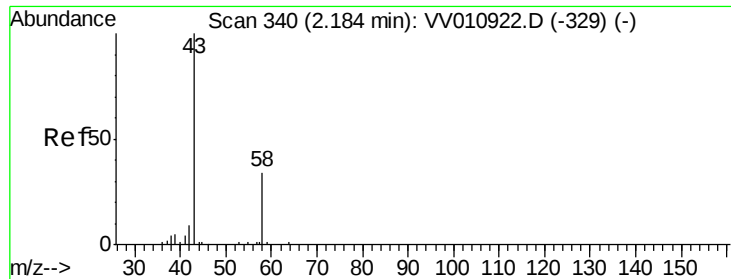


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 51.505 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

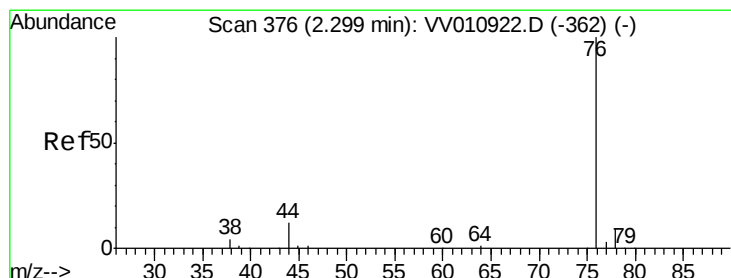
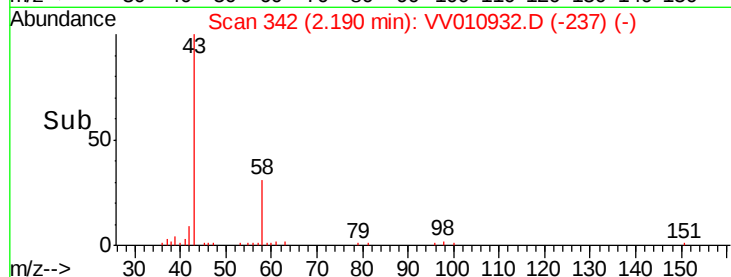
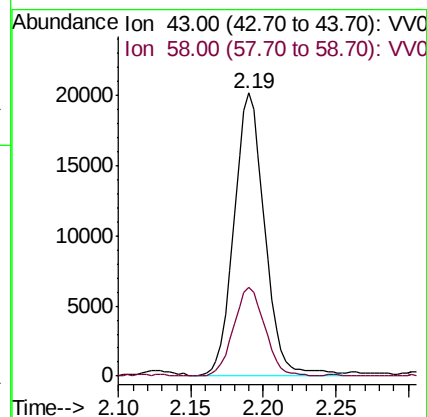
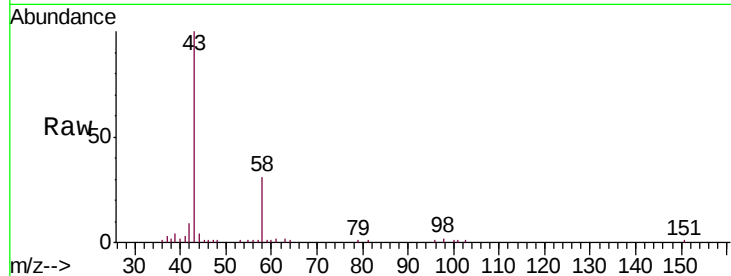
VSTD02563

Tgt Ion: 43 Resp: 29673

Ion Ratio Lower Upper

43 100

58 31.9 0.0 69.2



#14

Carbon disulfide

Concen: 23.212 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.01 min

Lab File: VV010932.D

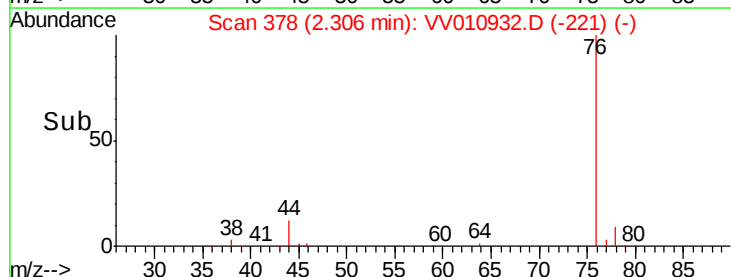
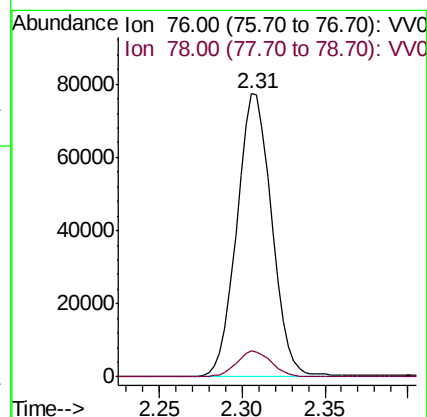
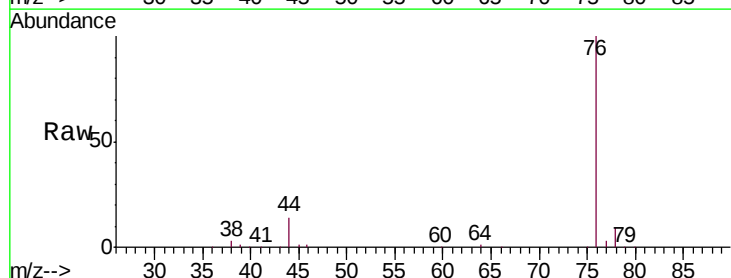
Acq: 16 May 2019 15:43

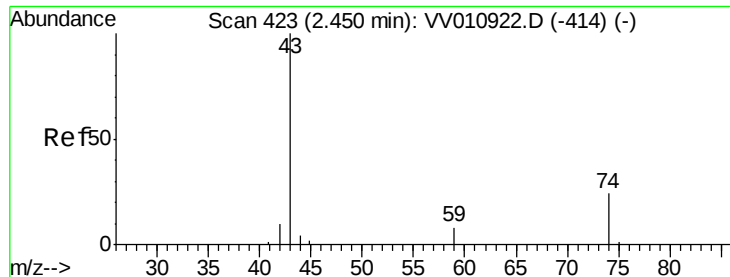
Tgt Ion: 76 Resp: 113693

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8





#15

Methyl Acetate

Concen: 19.498 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

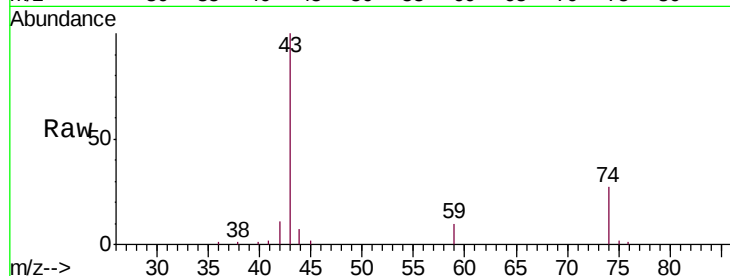
VSTD02563

Tgt Ion: 43 Resp: 23397

Ion Ratio Lower Upper

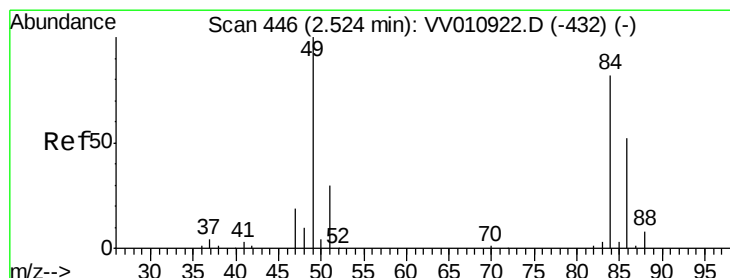
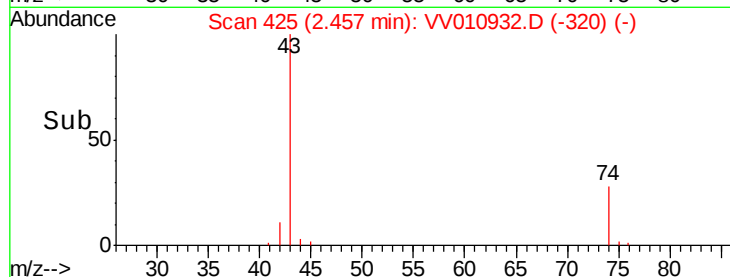
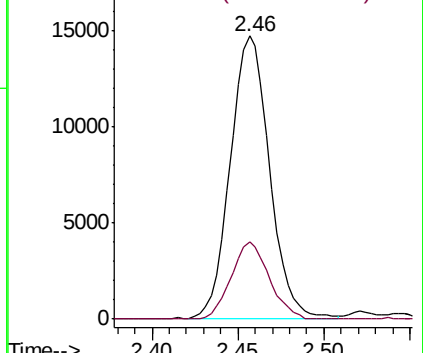
43 100

74 26.2 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VV010932.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV010932.D (-414) (-)



#16

Methylene chloride

Concen: 21.400 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

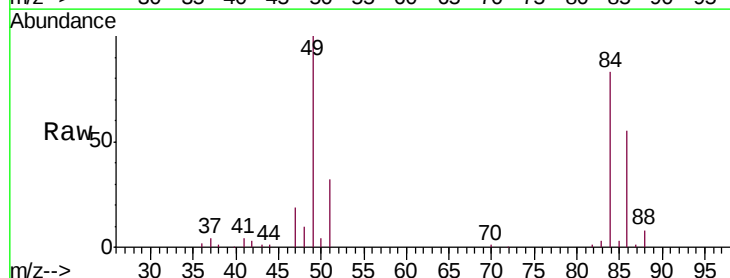
Tgt Ion: 84 Resp: 48734

Ion Ratio Lower Upper

84 100

49 119.8 85.8 159.3

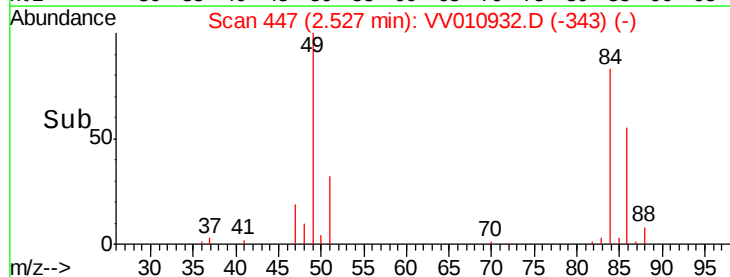
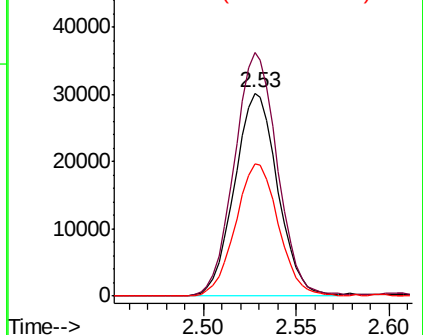
86 65.3 45.0 83.6

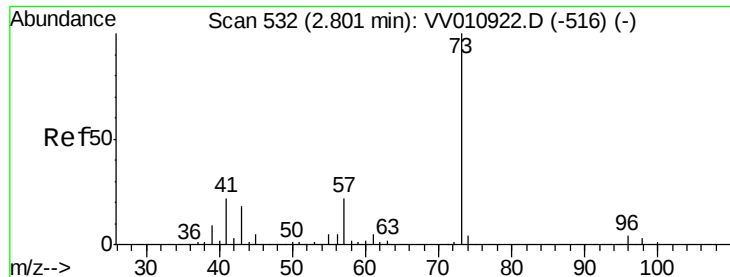


Abundance Ion 84.00 (83.70 to 84.70): VV010932.D (-432) (-)

Ion 49.00 (48.70 to 49.70): VV010932.D (-432) (-)

Ion 86.00 (85.70 to 86.70): VV010932.D (-432) (-)

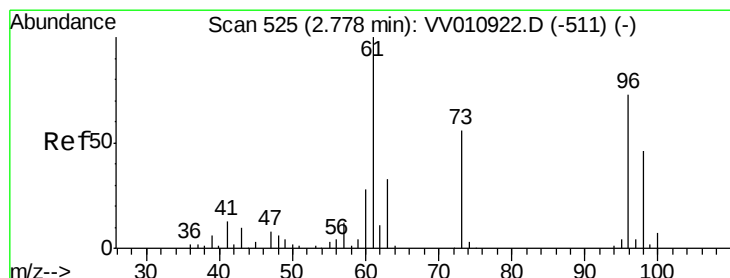
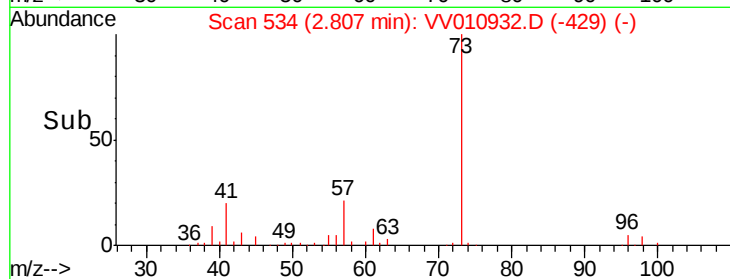
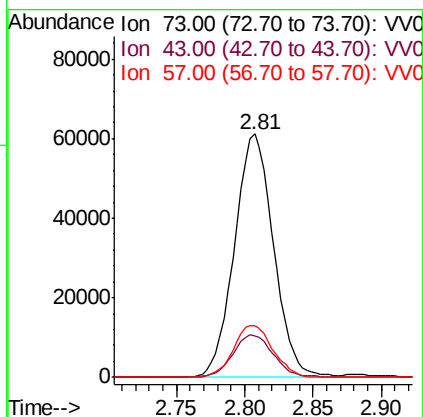
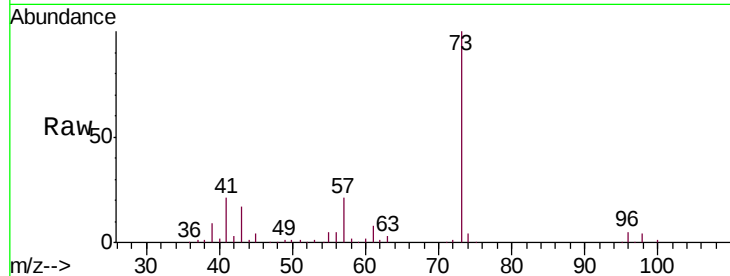




#17
Methyl tert-butyl Ether
Concen: 22.965 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.01 min
Lab File: VV010932.D
Acq: 16 May 2019 15:43

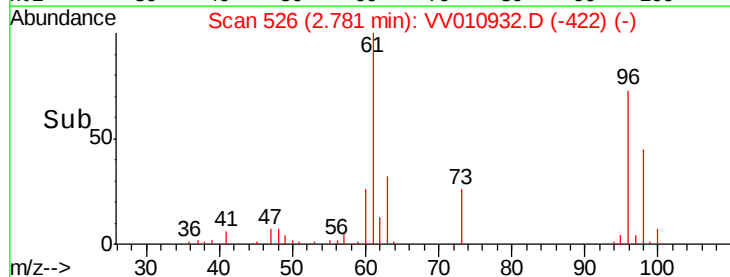
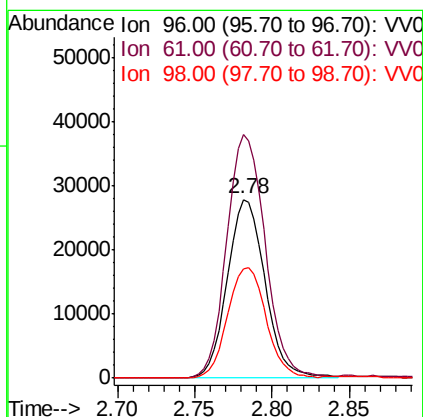
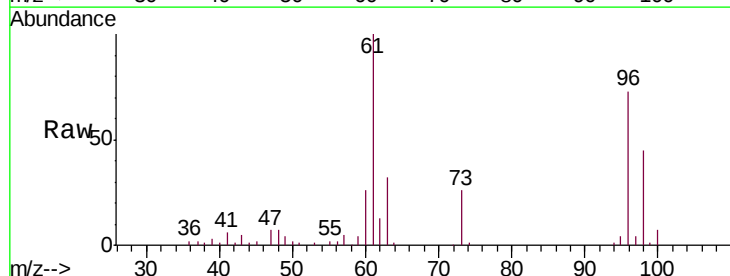
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

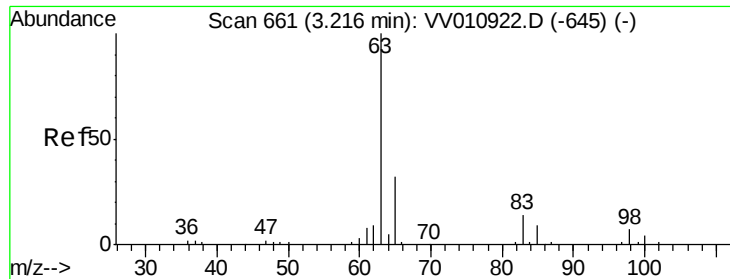
Tgt Ion: 73 Resp: 121936
Ion Ratio Lower Upper
73 100
43 18.1 15.3 22.9
57 21.8 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 24.456 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV010932.D
Acq: 16 May 2019 15:43

Tgt Ion: 96 Resp: 47373
Ion Ratio Lower Upper
96 100
61 136.5 95.0 176.4
98 61.2 43.3 80.3

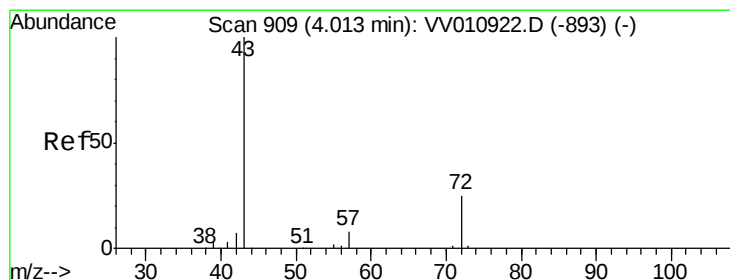
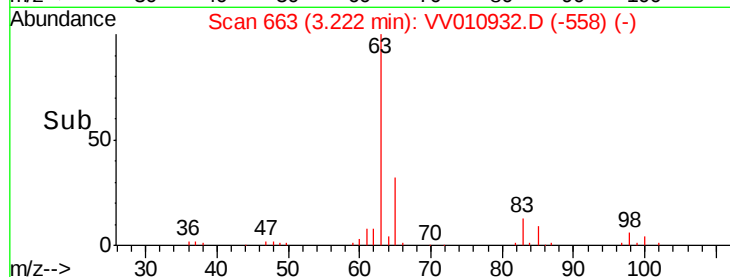
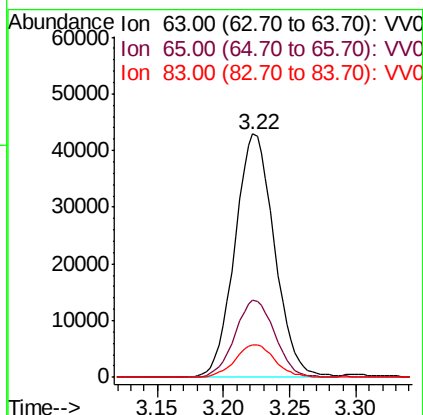
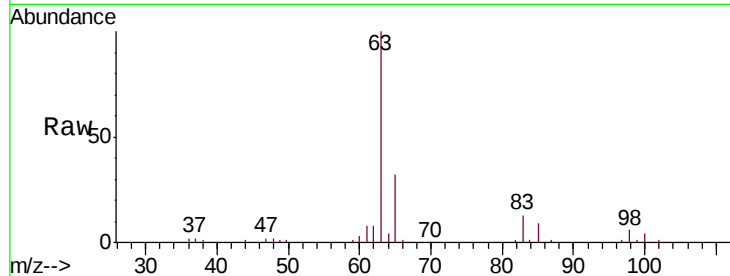




#19
 1,1-Dichloroethane
 Concen: 23.750 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. 0.01 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

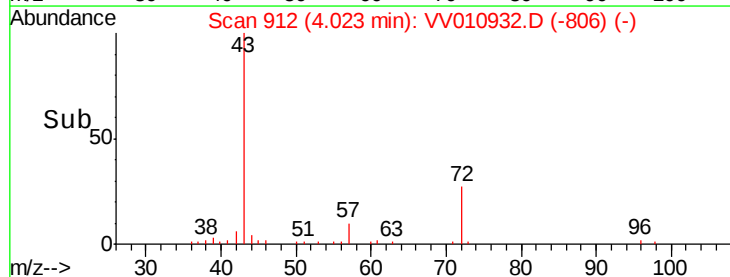
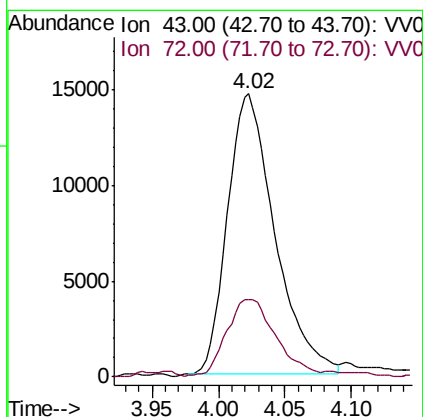
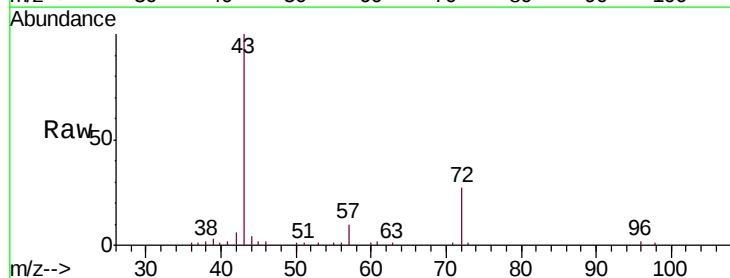
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

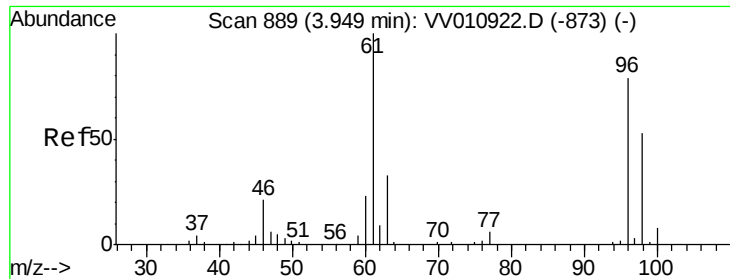
Tgt Ion: 63 Resp: 89068
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.1 41.1
 83 13.3 9.7 17.9



#21
 2-Butanone
 Concen: 49.062 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion: 43 Resp: 36486
 Ion Ratio Lower Upper
 43 100
 72 28.9 13.7 41.1



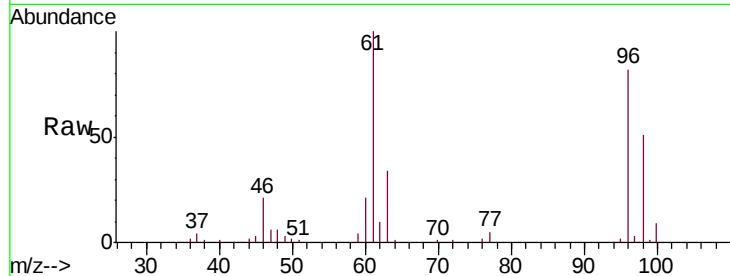


#22

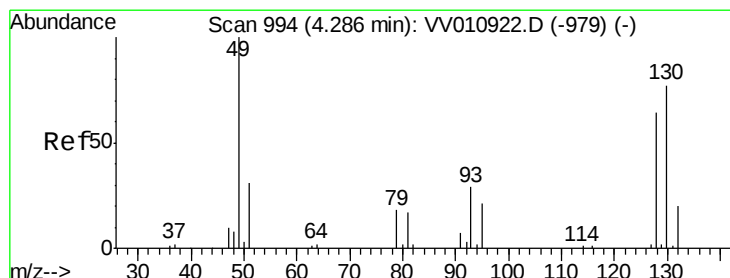
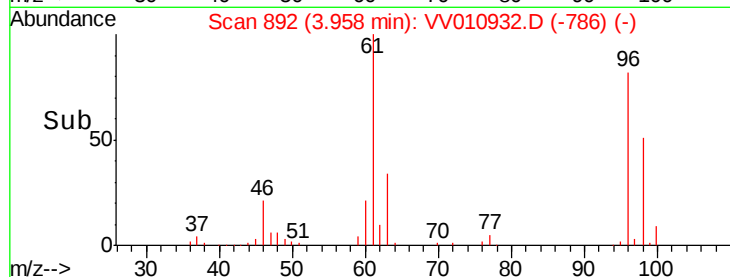
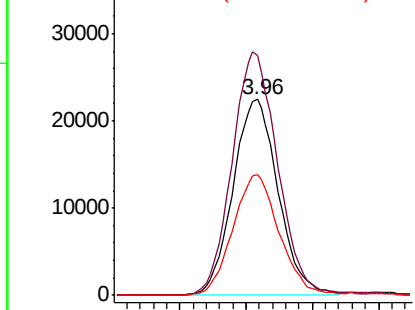
cis-1,2-Dichloroethene
 Concen: 23.495 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

Tgt Ion: 96 Resp: 53260
 Ion Ratio Lower Upper
 96 100
 61 122.0 90.2 167.6
 98 61.7 44.2 82.0



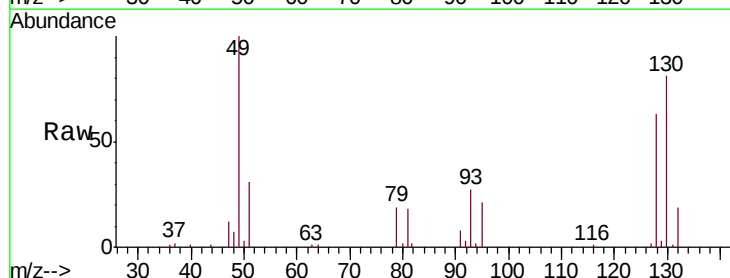
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



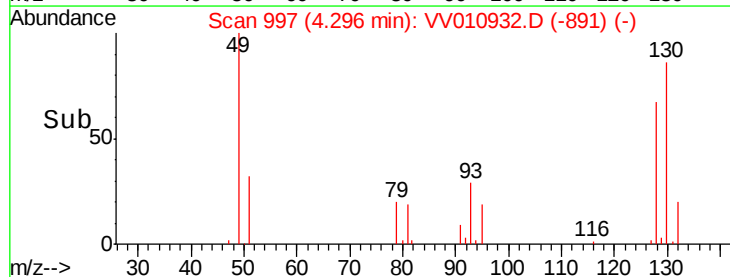
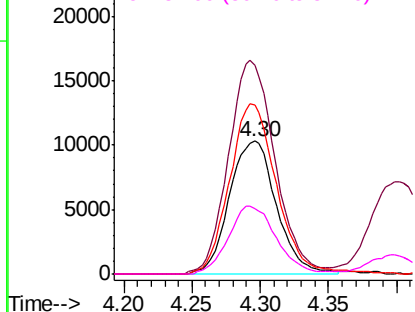
#23

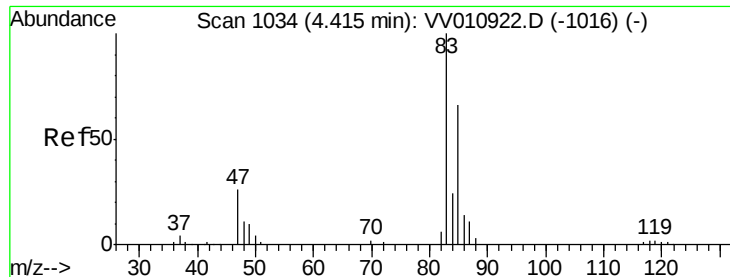
Bromochloromethane
 Concen: 23.375 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.01 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion: 128 Resp: 24683
 Ion Ratio Lower Upper
 128 100
 49 157.7 117.8 218.8
 130 128.0 88.4 164.2
 51 49.7 40.6 60.8



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

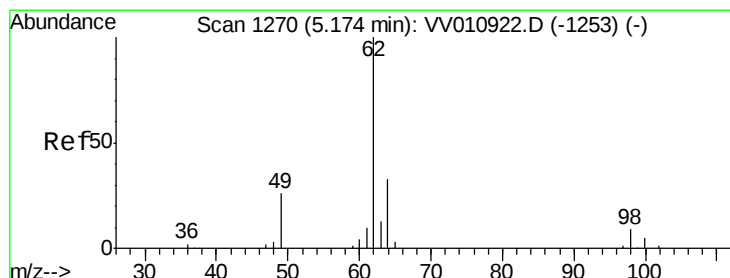
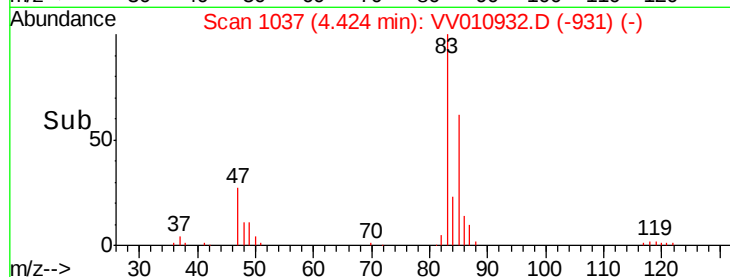
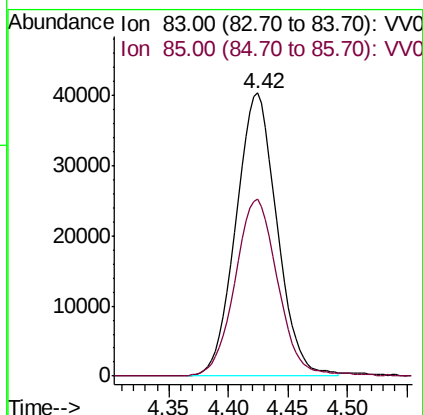
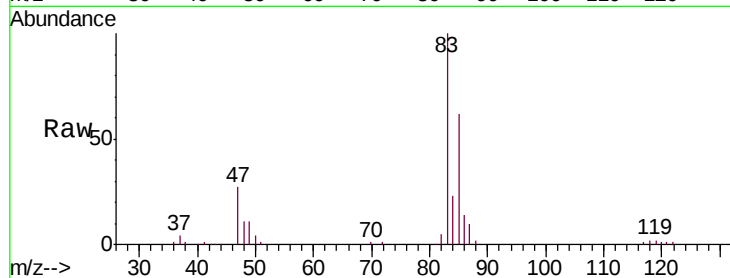




#25
Chloroform
Concen: 23.705 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VV010932.D
Acq: 16 May 2019 15:43

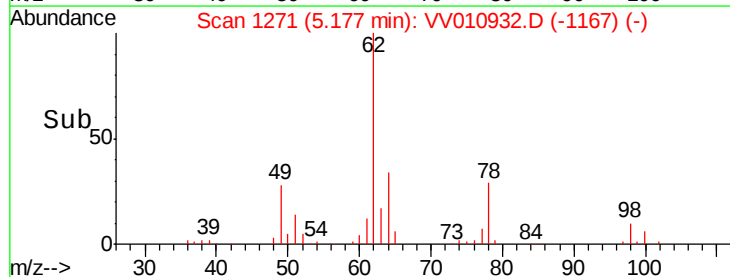
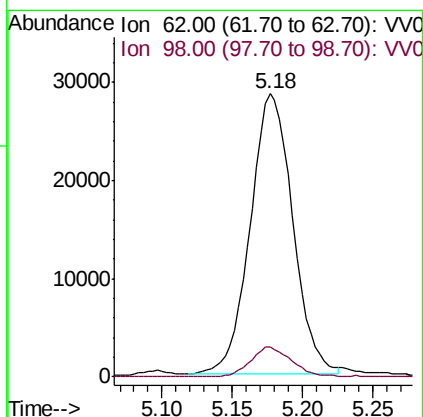
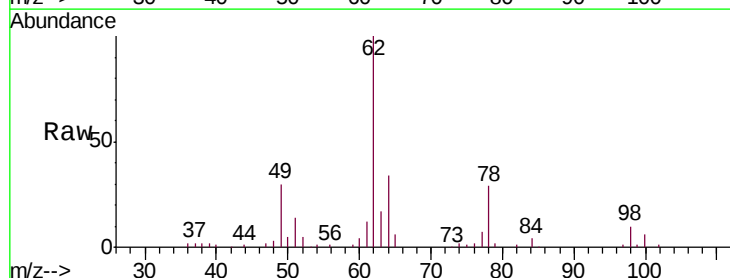
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

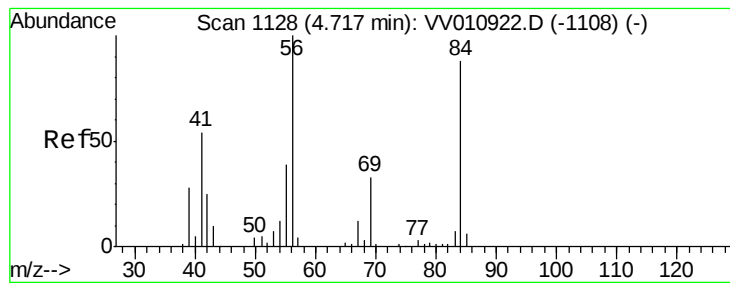
Tgt Ion: 83 Resp: 96433
Ion Ratio Lower Upper
83 100
85 64.8 45.3 84.1



#27
1,2-Dichloroethane
Concen: 21.235 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV010932.D
Acq: 16 May 2019 15:43

Tgt Ion: 62 Resp: 60273
Ion Ratio Lower Upper
62 100
98 10.5 7.0 10.4#





#30

Cyclohexane

Concen: 28.557 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

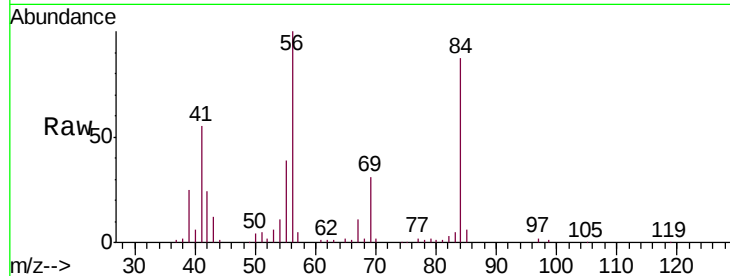
Tgt Ion: 56 Resp: 77598

Ion Ratio Lower Upper

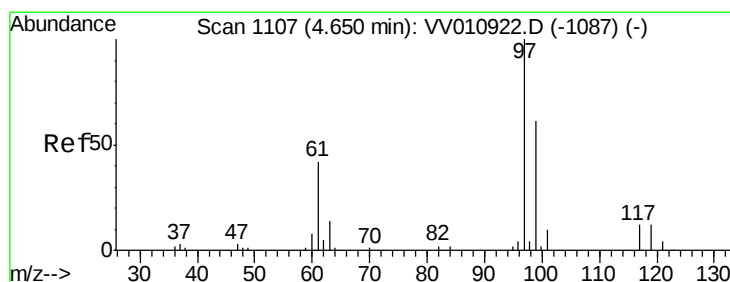
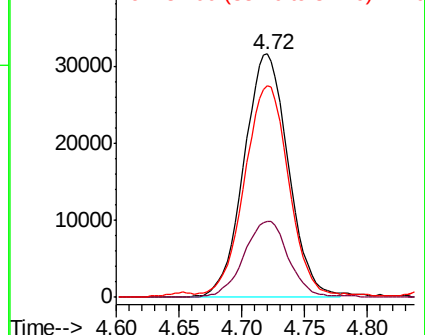
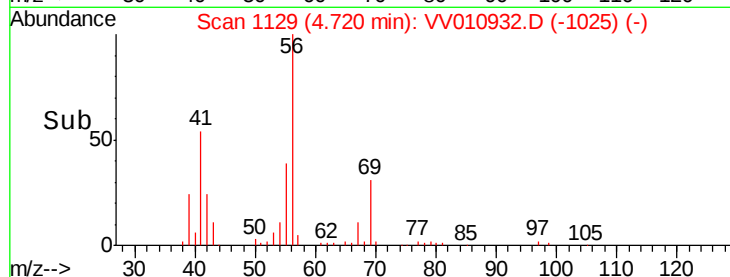
56 100

69 31.2 25.2 37.8

84 87.7 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VV010932.D (-1025) (-)



#31

1,1,1-Trichloroethane

Concen: 25.900 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

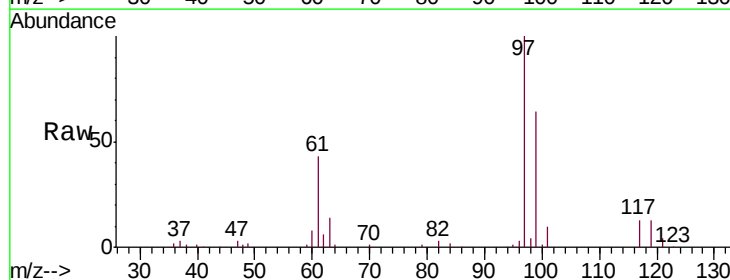
Tgt Ion: 97 Resp: 79506

Ion Ratio Lower Upper

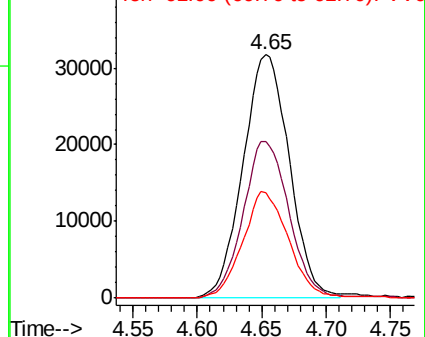
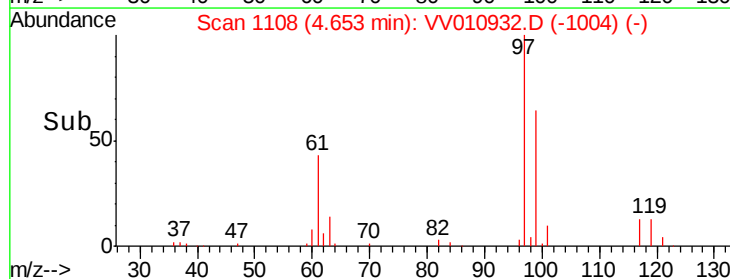
97 100

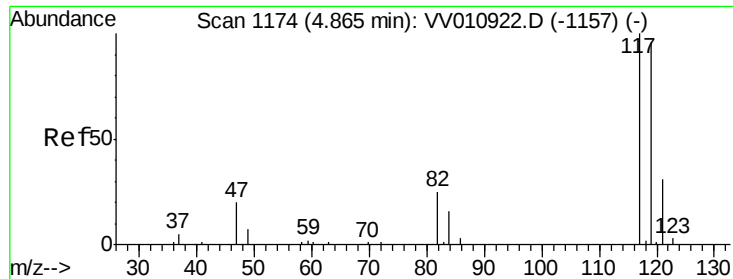
99 63.9 49.4 74.2

61 43.4 34.6 51.8



Abundance Ion 97.00 (96.70 to 97.70): VV010932.D (-1004) (-)





#32

Carbon tetrachloride

Concen: 27.310 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

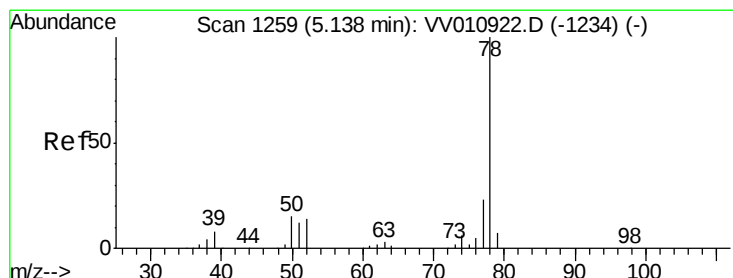
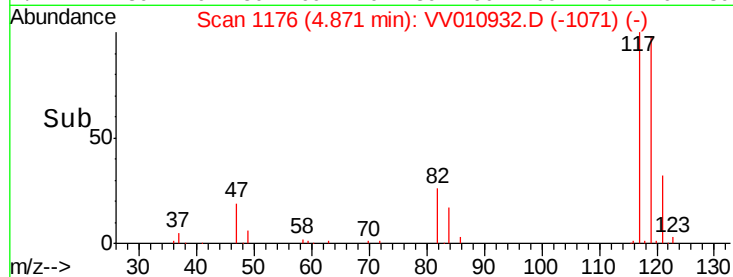
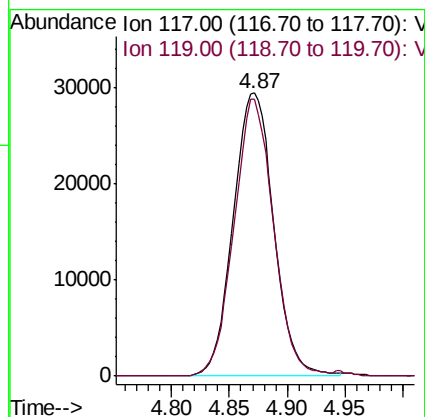
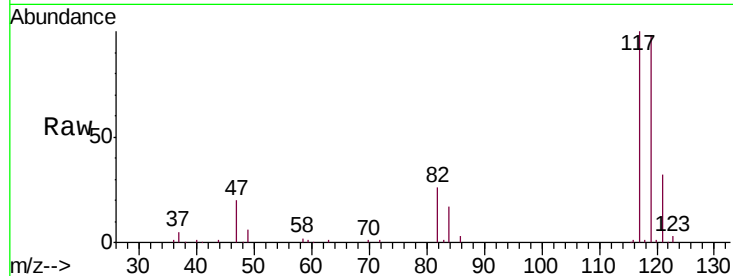
VSTD02563

Tgt Ion:117 Resp: 71539

Ion Ratio Lower Upper

117 100

119 95.2 76.5 114.7



#34

Benzene

Concen: 24.290 ug/L

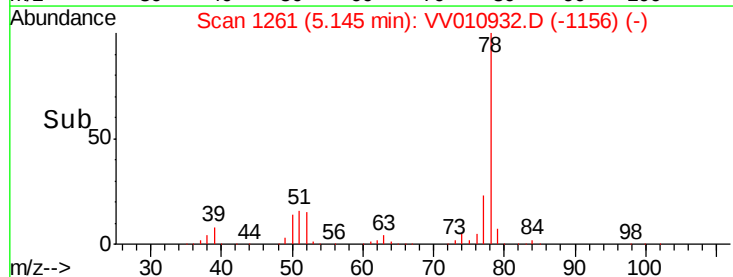
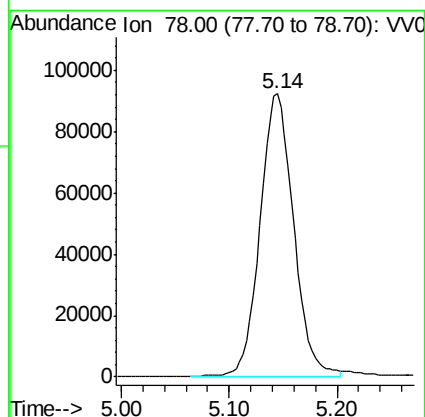
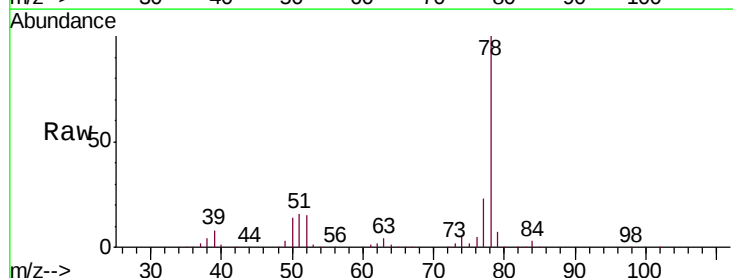
RT: 5.14 min Scan# 1261

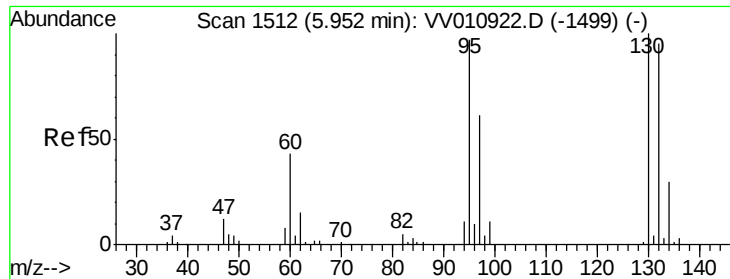
Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Tgt Ion: 78 Resp: 200095





#35

Trichloroethene

Concen: 25.126 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

Tgt Ion: 95 Resp: 53645

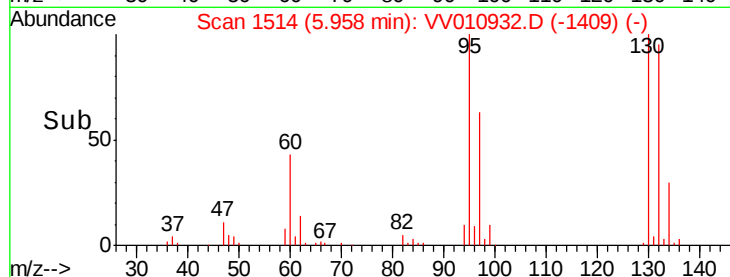
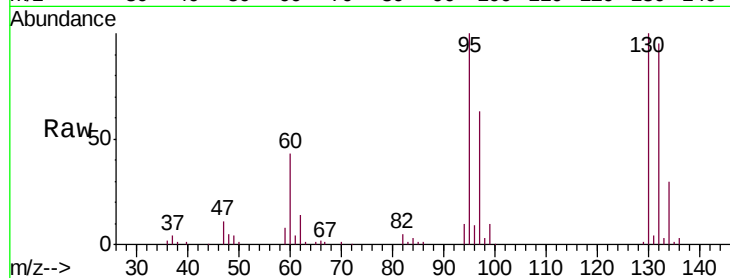
Ion Ratio Lower Upper

95 100

97 65.1 46.0 85.4

132 97.1 67.4 125.2

130 101.4 68.5 127.1

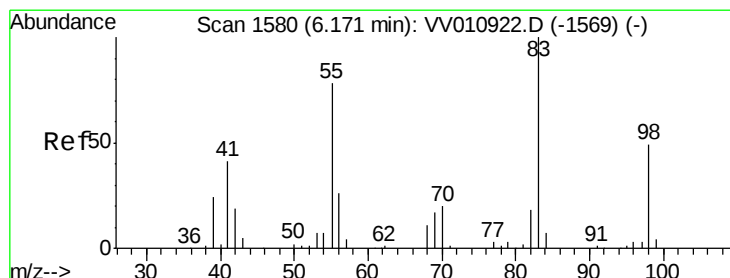
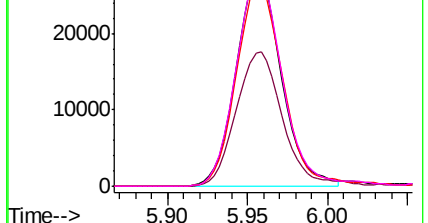


Abundance Ion 95.00 (94.70 to 95.70): VV010932.D (-1409) (-)

Ion 97.00 (96.70 to 97.70): VV010932.D (-1409) (-)

Ion 132.00 (131.70 to 132.70): VV010932.D (-1409) (-)

Ion 130.00 (129.70 to 130.70): VV010932.D (-1409) (-)



#36

Methylcyclohexane

Concen: 28.781 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

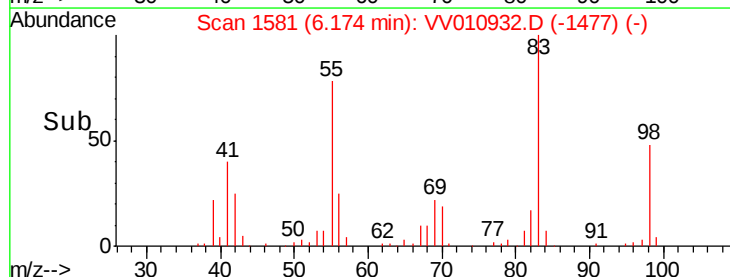
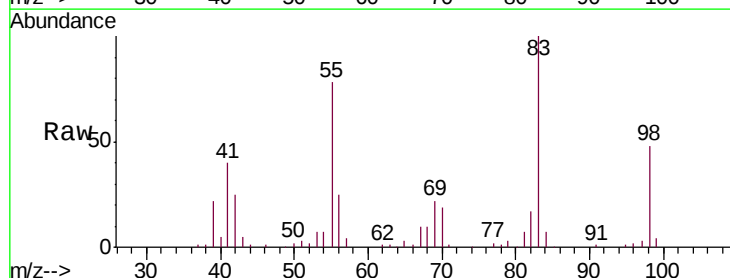
Tgt Ion: 83 Resp: 85512

Ion Ratio Lower Upper

83 100

55 77.4 61.0 91.4

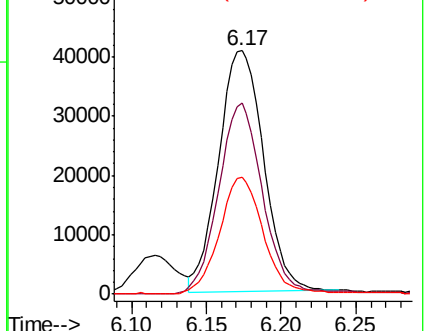
98 47.2 37.2 55.8

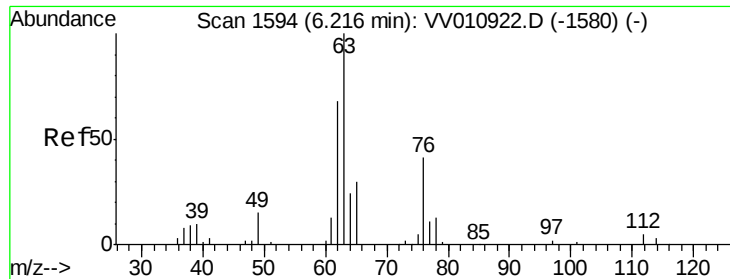


Abundance Ion 83.00 (82.70 to 83.70): VV010932.D (-1477) (-)

Ion 55.00 (54.70 to 55.70): VV010932.D (-1477) (-)

Ion 98.00 (97.70 to 98.70): VV010932.D (-1477) (-)

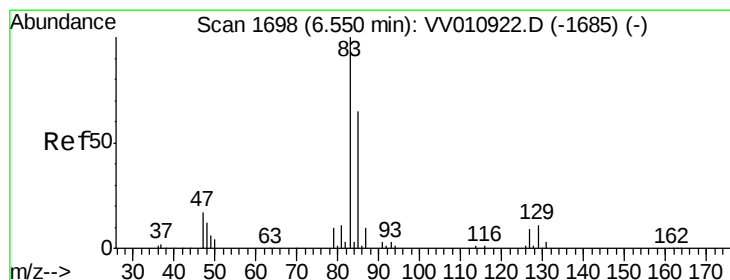
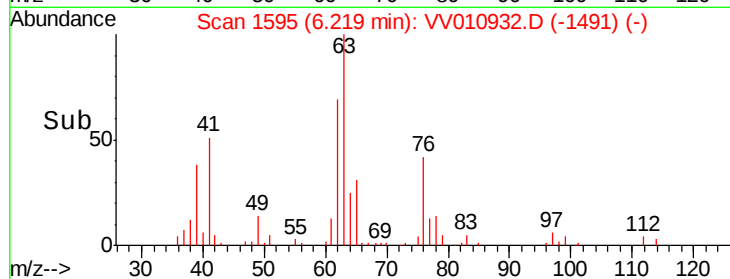
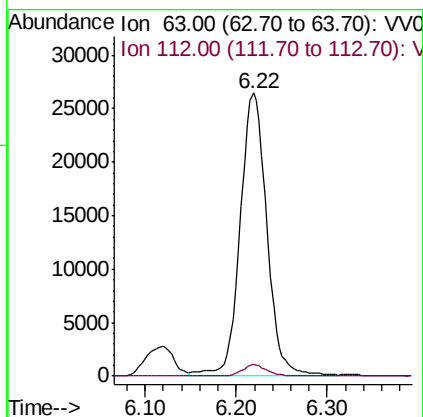
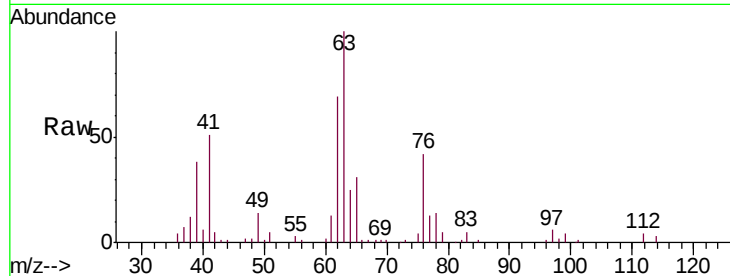




#40
 1,2-Dichloropropane
 Concen: 24.184 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

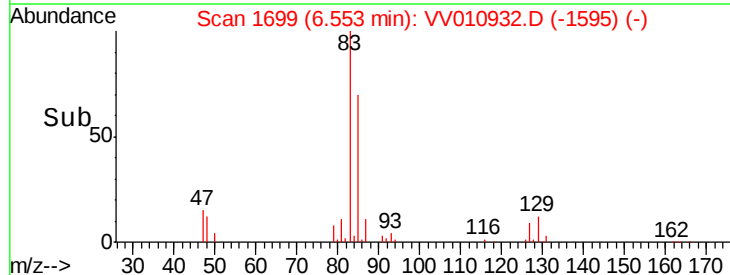
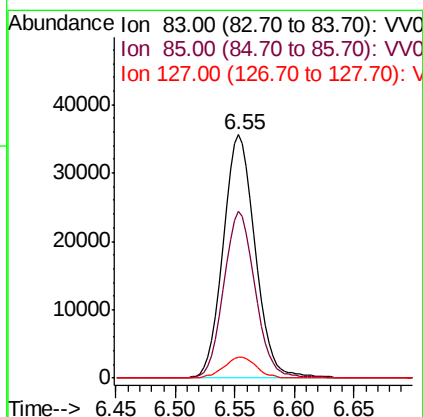
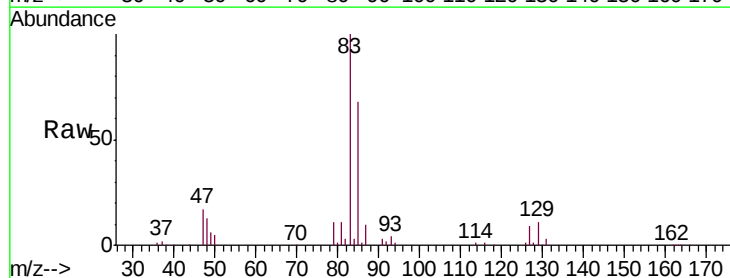
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

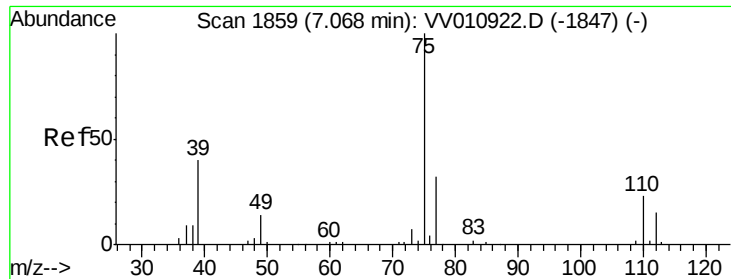
Tgt Ion: 63 Resp: 54262
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.2 4.8



#41
 Bromodichloromethane
 Concen: 23.102 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion: 83 Resp: 66465
 Ion Ratio Lower Upper
 83 100
 85 68.4 45.3 84.1
 127 8.6 7.4 11.2



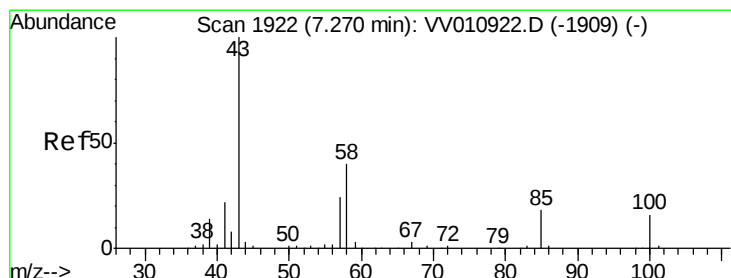
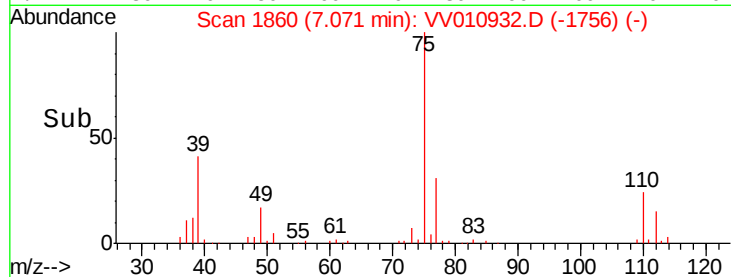
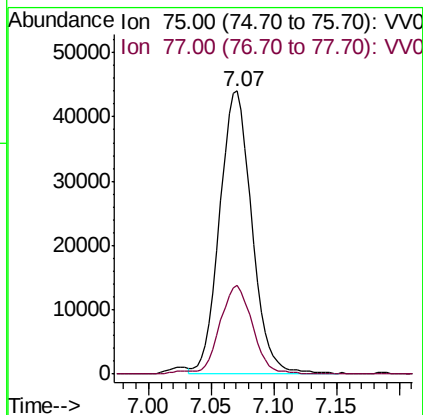
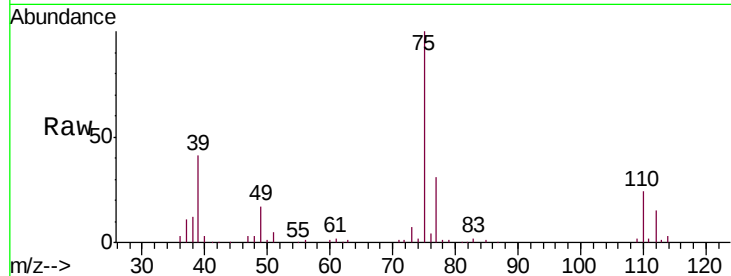


#42

cis-1,3-Dichloropropene
 Concen: 23.888 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

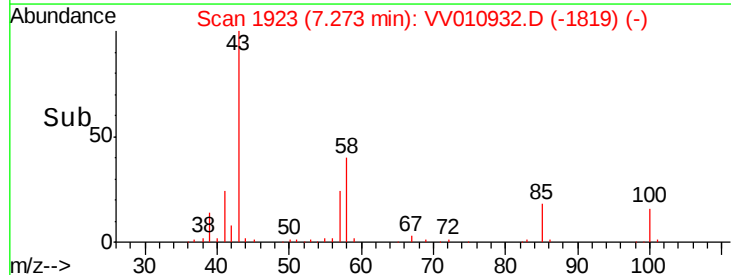
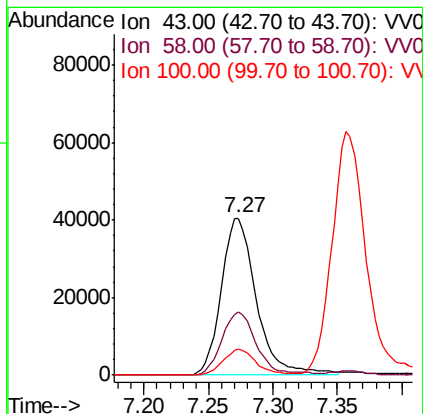
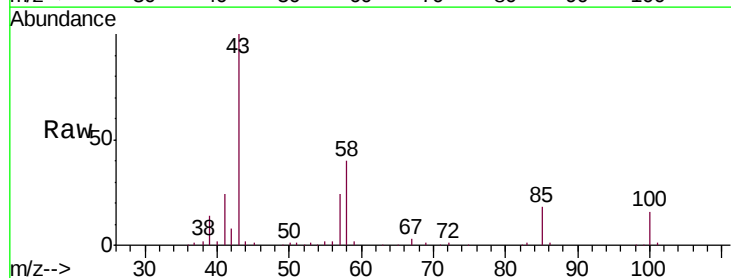
Tgt Ion: 75 Resp: 78192
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.5 39.9

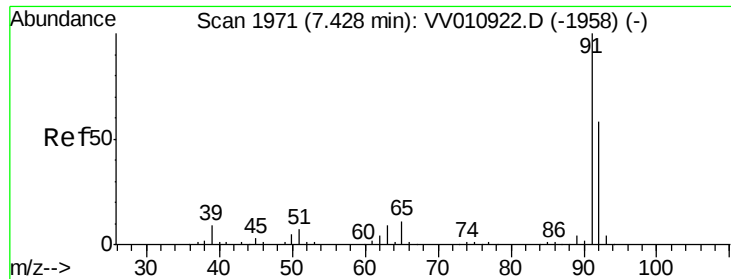


#43

4-Methyl-2-pentanone
 Concen: 48.426 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion: 43 Resp: 76733
 Ion Ratio Lower Upper
 43 100
 58 39.8 30.0 45.0
 100 15.7 11.2 16.8





#44

Toluene

Concen: 24.947 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

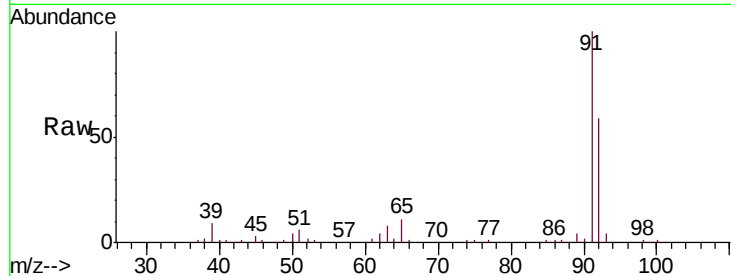
VSTD02563

Tgt Ion: 91 Resp: 228441

Ion Ratio Lower Upper

91 100

92 58.7 39.1 72.7



Abundance Ion 91.00 (90.70 to 91.70): VV010932.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV010932.D (-1958) (-)

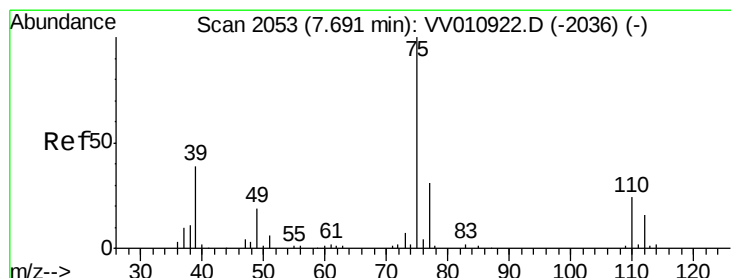
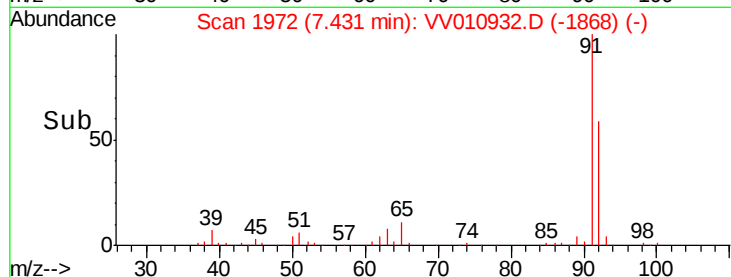
7.43

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 23.637 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010932.D

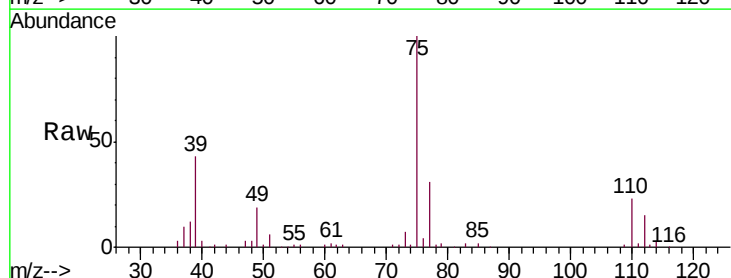
Acq: 16 May 2019 15:43

Tgt Ion: 75 Resp: 65392

Ion Ratio Lower Upper

75 100

77 31.2 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VV010932.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV010932.D (-1950) (-)

7.69

40000

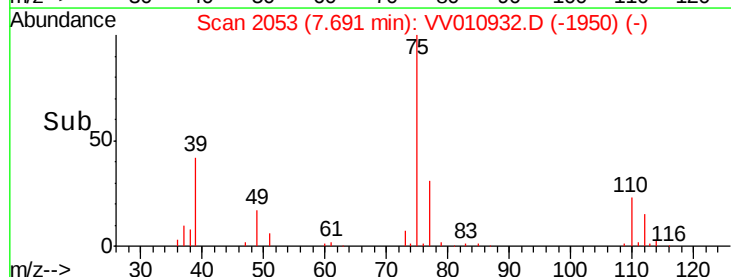
30000

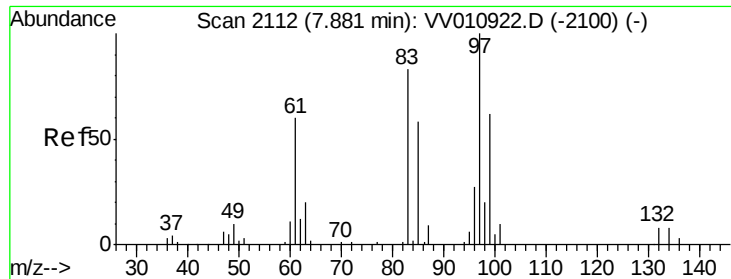
20000

10000

0

Time-->

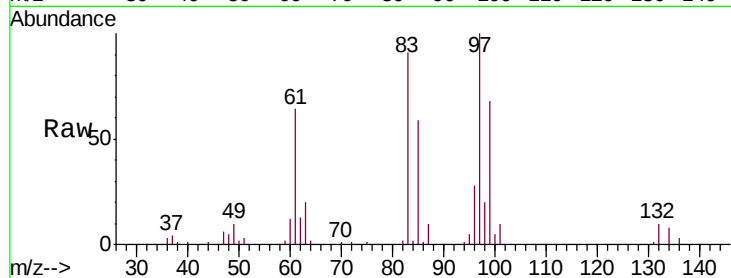




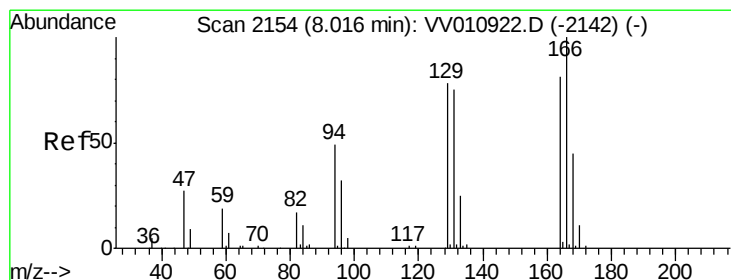
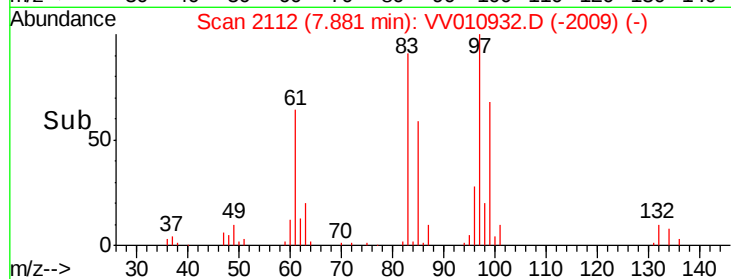
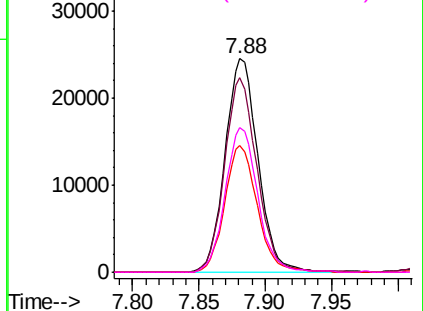
#46
 1,1,2-Trichloroethane
 Concen: 23.407 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

Tgt Ion:	97	Resp:	42296
Ion	Ratio	Lower	Upper
97	100		
83	91.0	57.2	106.2
85	59.1	37.4	69.4
99	67.7	42.0	78.0

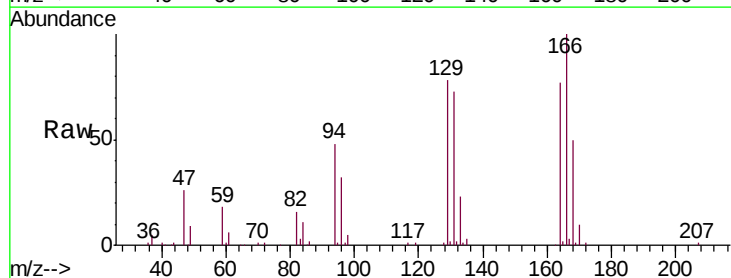


Abundance Ion 97.00 (96.70 to 97.70): VV010932.D (-2099) (-)

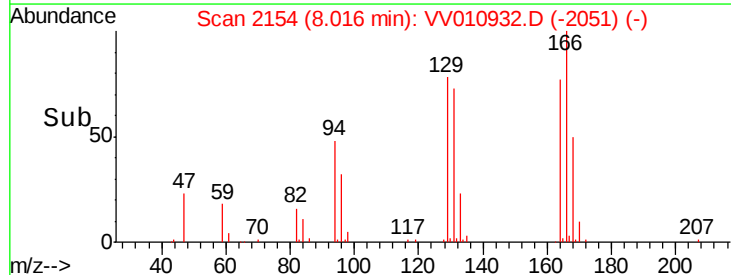
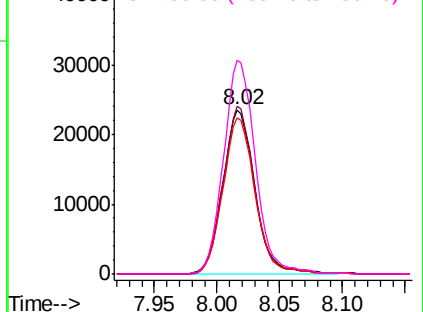


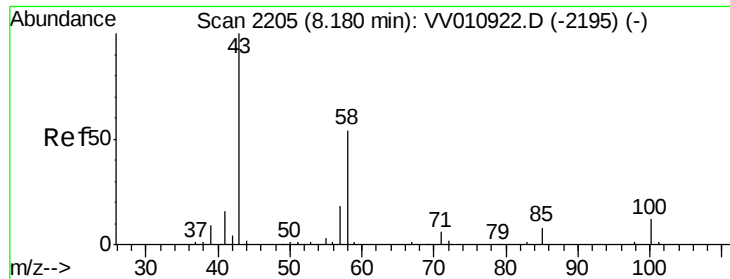
#47
 Tetrachloroethene
 Concen: 26.516 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion:	164	Resp:	41831
Ion	Ratio	Lower	Upper
164	100		
129	102.1	67.6	125.6
131	95.1	65.1	120.9
166	130.4	84.8	157.6



Abundance Ion 164.00 (163.70 to 164.70): VV010932.D (-2051) (-)

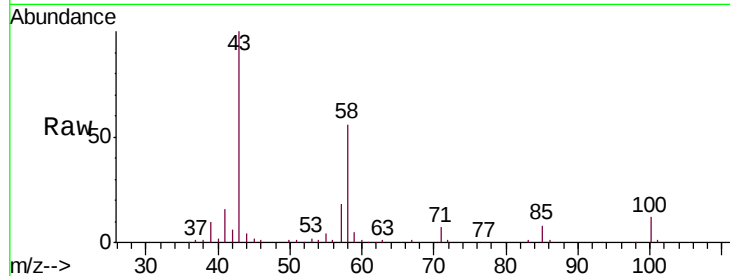




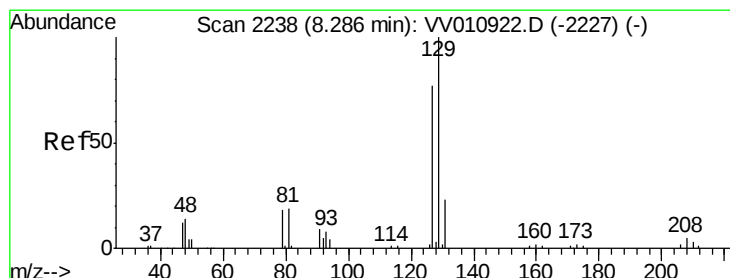
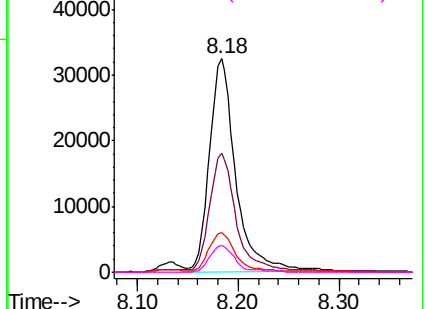
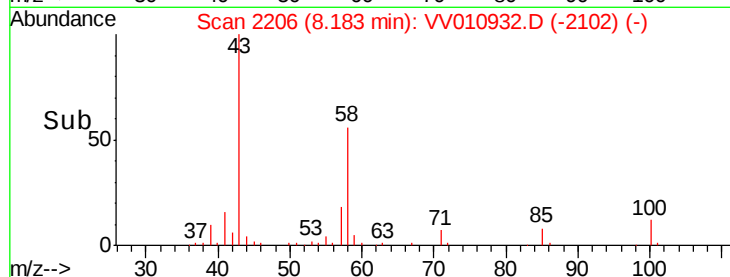
#49
2-Hexanone
Concen: 49.924 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010932.D
Acq: 16 May 2019 15:43

Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

Tgt Ion: 43 Resp: 58424
Ion Ratio Lower Upper
43 100
58 54.6 41.0 61.6
57 18.2 14.3 21.5
100 11.5 9.4 14.2

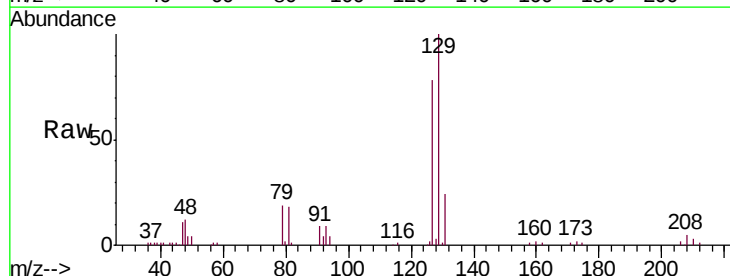


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

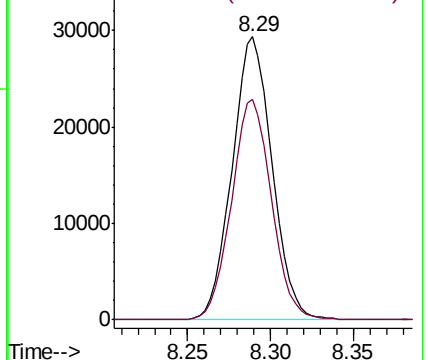
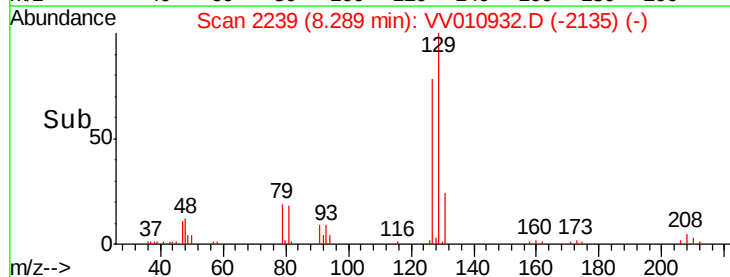


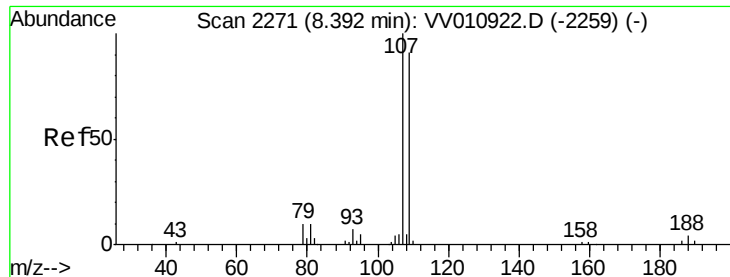
#50
Dibromochloromethane
Concen: 24.472 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010932.D
Acq: 16 May 2019 15:43

Tgt Ion: 129 Resp: 49187
Ion Ratio Lower Upper
129 100
127 77.8 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

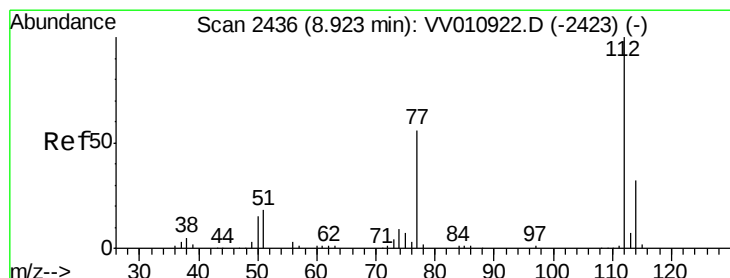
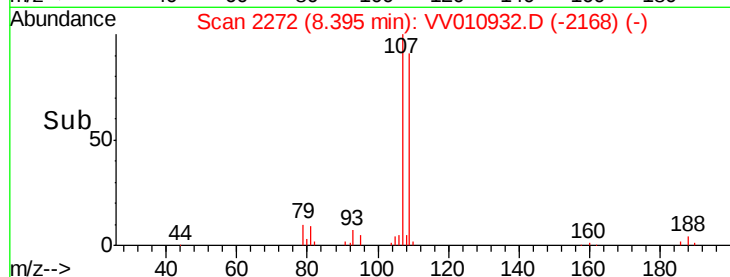
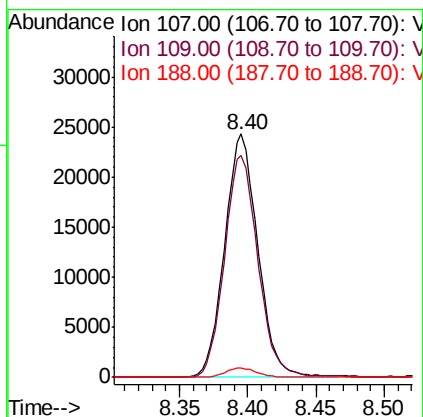
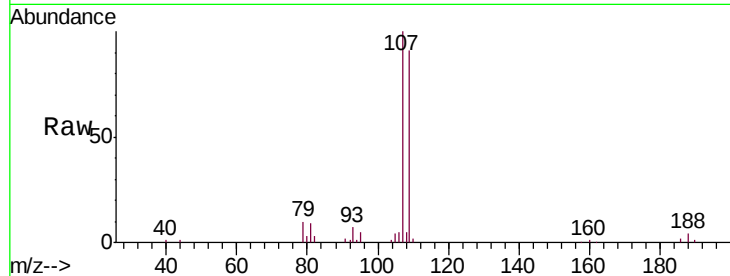




#51
 1,2-Dibromoethane
 Concen: 24.171 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

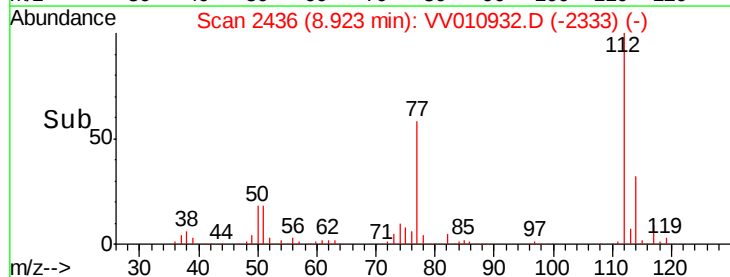
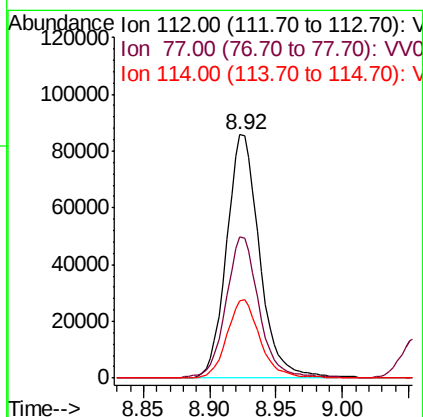
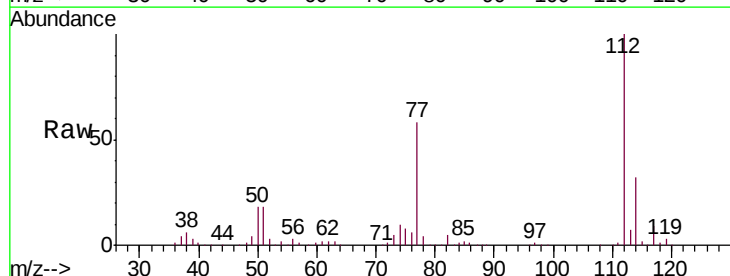
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

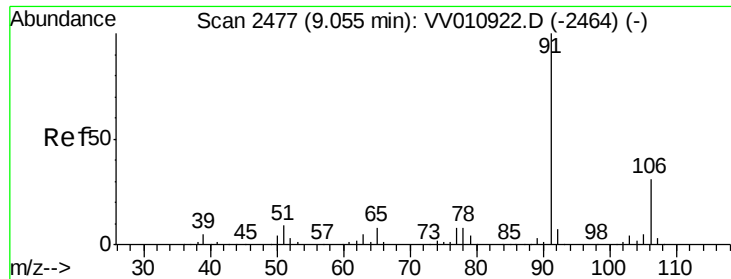
Tgt Ion:107 Resp: 41147
 Ion Ratio Lower Upper
 107 100
 109 91.3 66.7 123.9
 188 3.7 2.7 4.1



#52
 Chlorobenzene
 Concen: 23.855 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion:112 Resp: 148770
 Ion Ratio Lower Upper
 112 100
 77 58.1 45.4 68.0
 114 31.6 22.4 41.6





#53

Ethylbenzene

Concen: 25.669 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

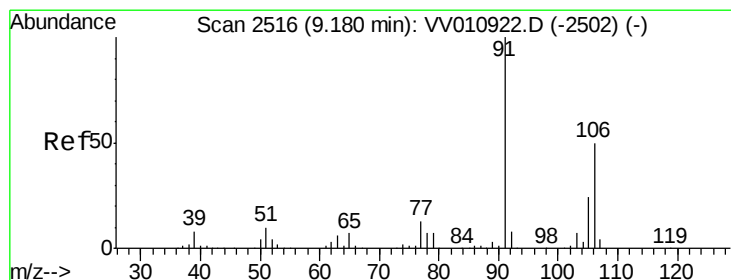
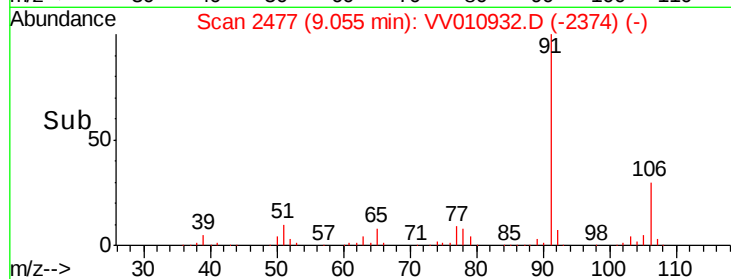
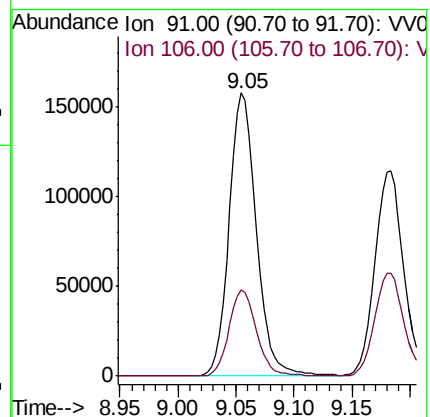
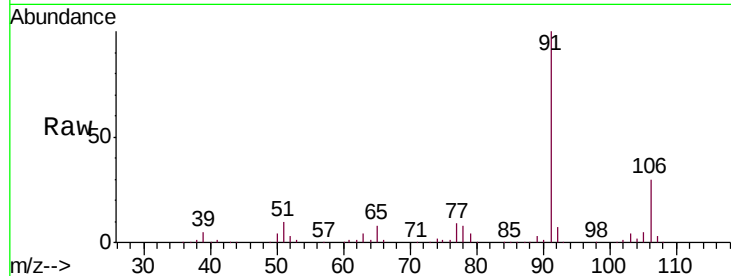
VSTD02563

Tgt Ion: 91 Resp: 257509

Ion Ratio Lower Upper

91 100

106 30.3 21.9 40.7



#54

m,p-Xylene

Concen: 25.460 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010932.D

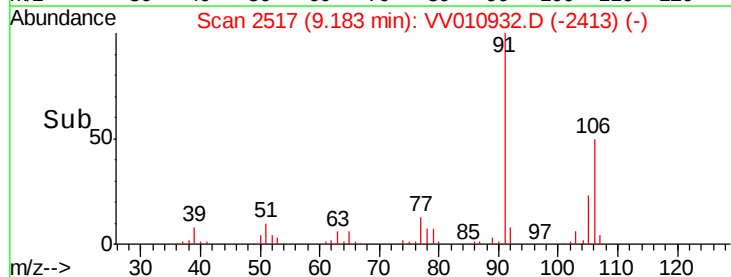
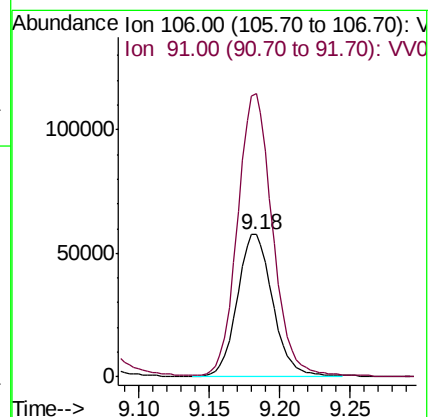
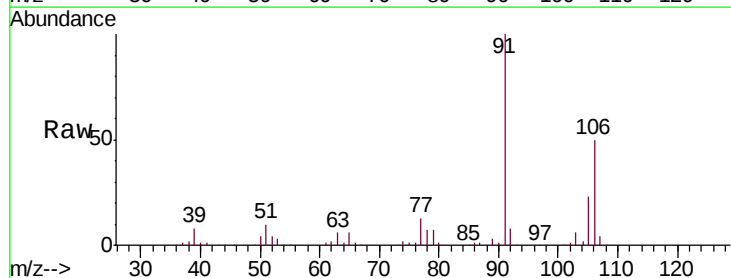
Acq: 16 May 2019 15:43

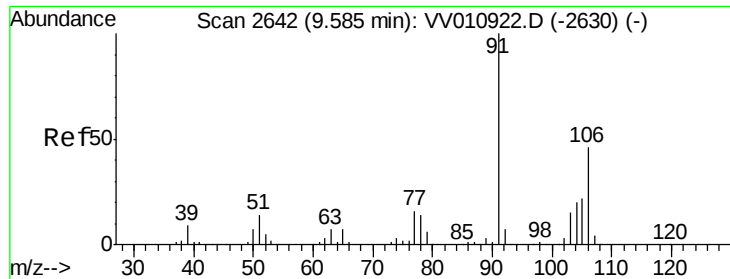
Tgt Ion: 106 Resp: 100631

Ion Ratio Lower Upper

106 100

91 199.0 140.6 261.0





#55

o-xylene

Concen: 24.850 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

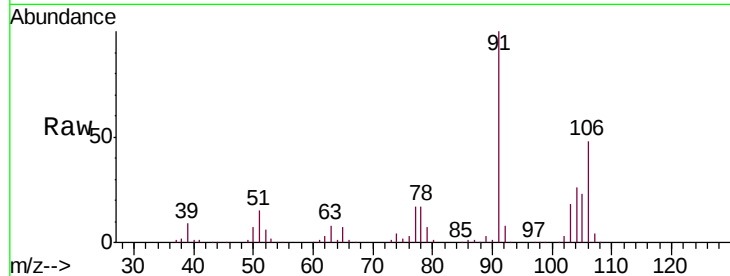
VSTD02563

Tgt Ion:106 Resp: 96498

Ion Ratio Lower Upper

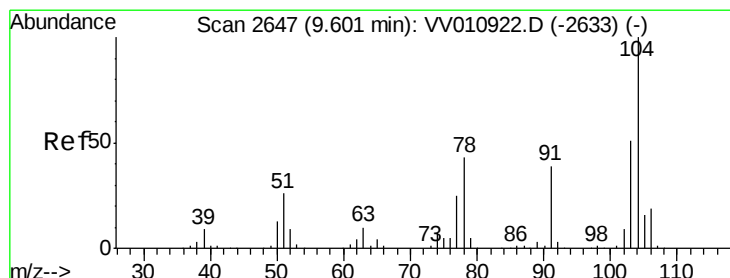
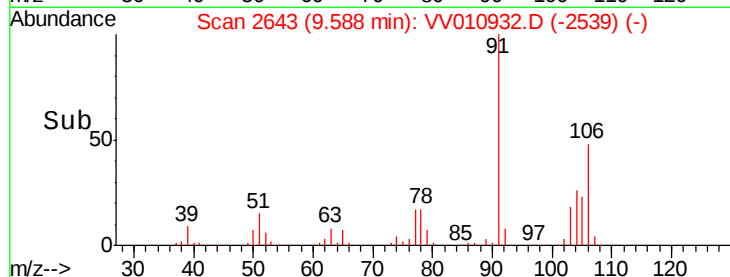
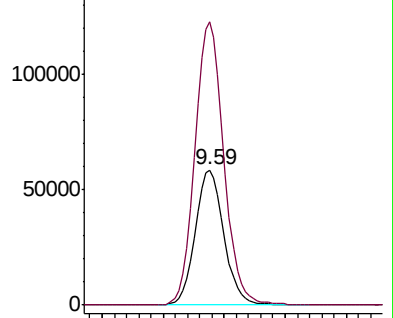
106 100

91 209.2 146.9 272.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 25.238 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010932.D

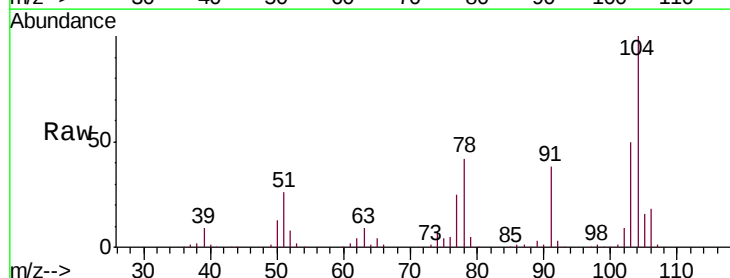
Acq: 16 May 2019 15:43

Tgt Ion:104 Resp: 168055

Ion Ratio Lower Upper

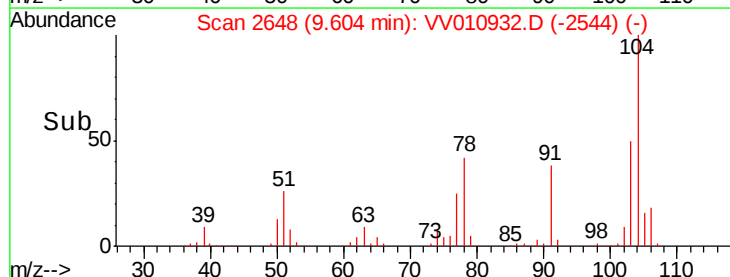
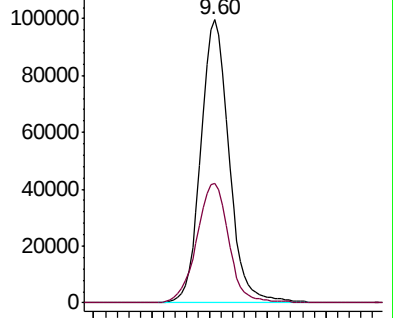
104 100

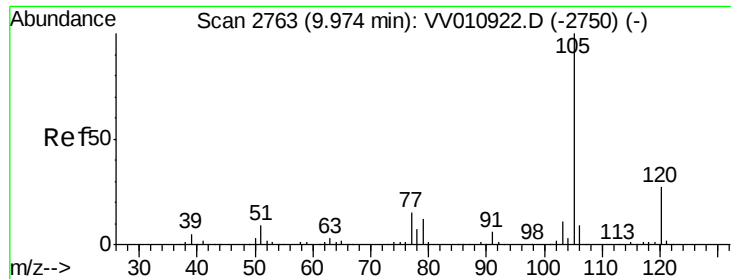
78 42.4 30.0 55.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.732 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

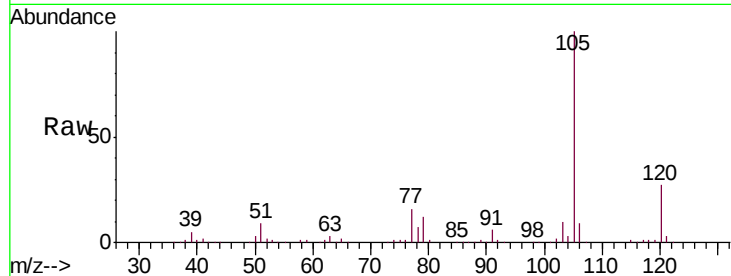
Tgt Ion: 105 Resp: 259852

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.4

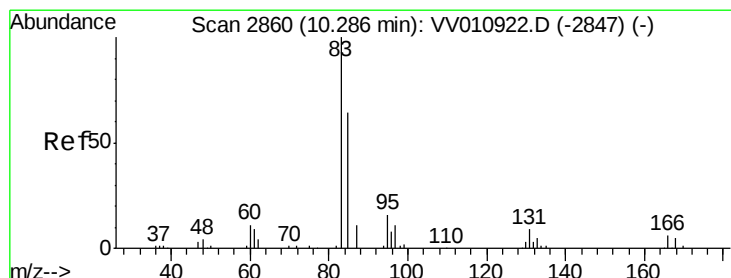
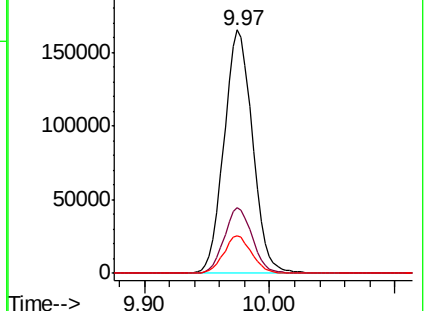
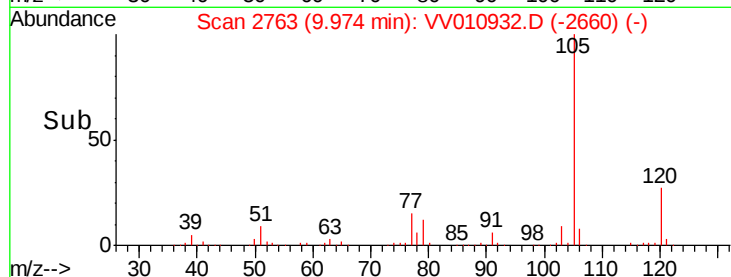
77 15.4 12.2 18.4



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: 24.622 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

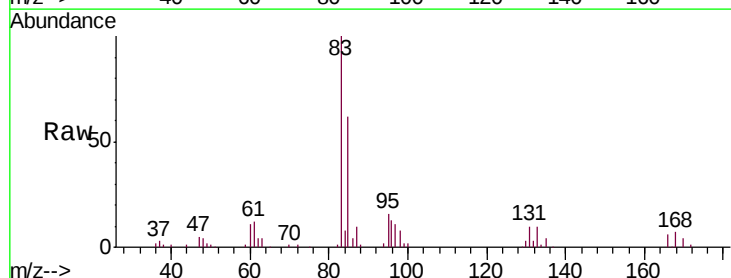
Tgt Ion: 83 Resp: 58758

Ion Ratio Lower Upper

83 100

85 61.7 46.7 86.7

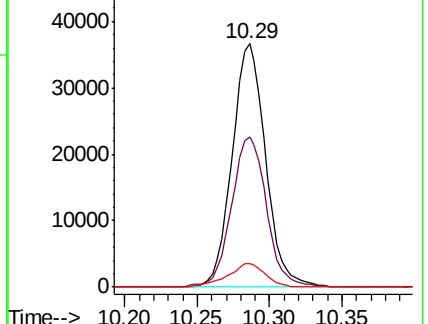
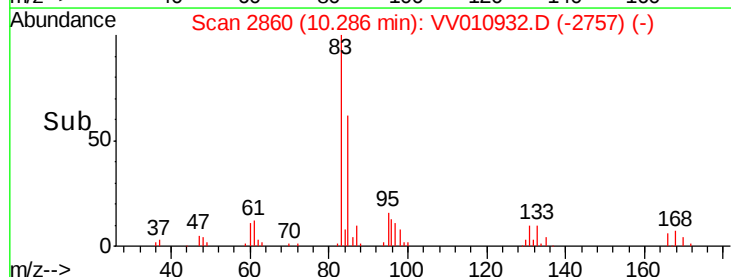
131 9.9 8.5 12.7

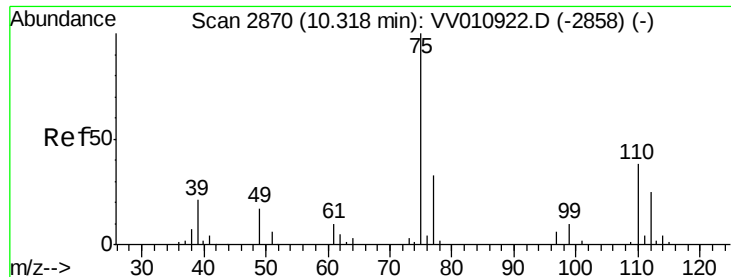


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

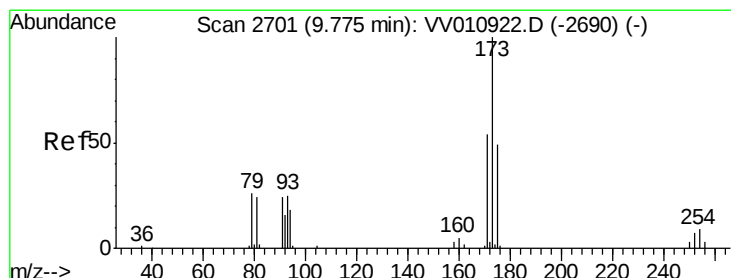
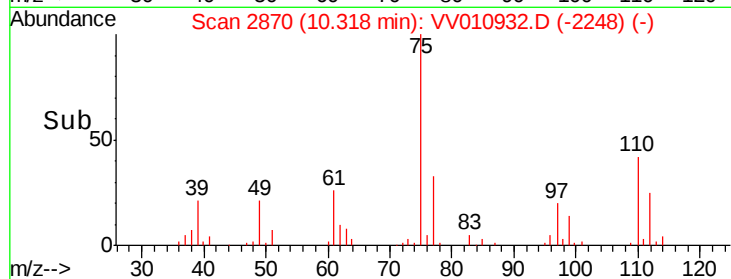
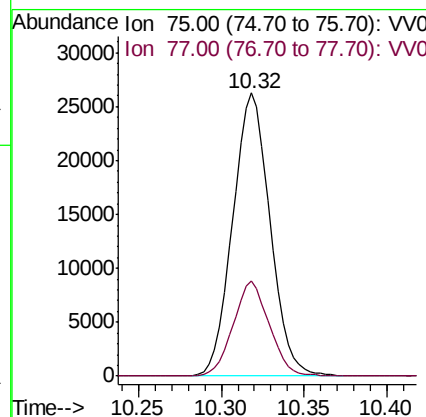
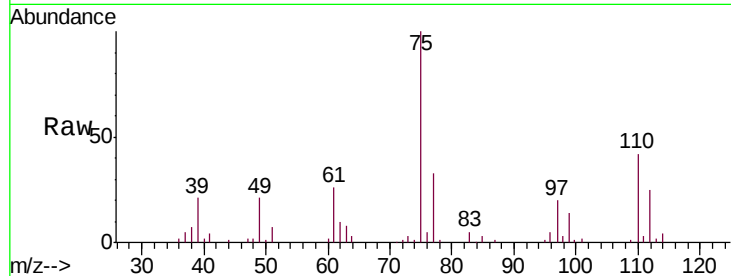




#59
 1,2,3-Trichloropropane
 Concen: 23.827 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

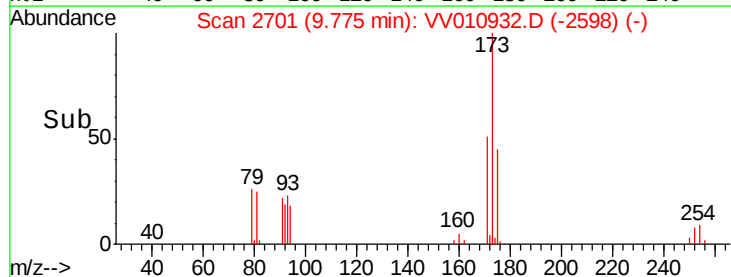
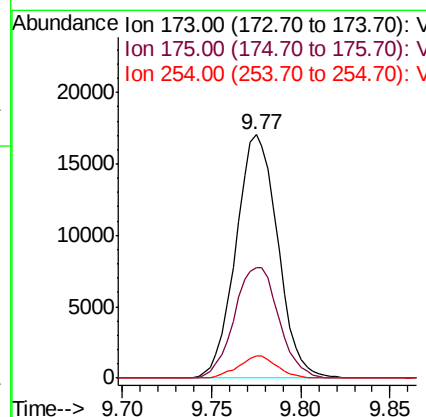
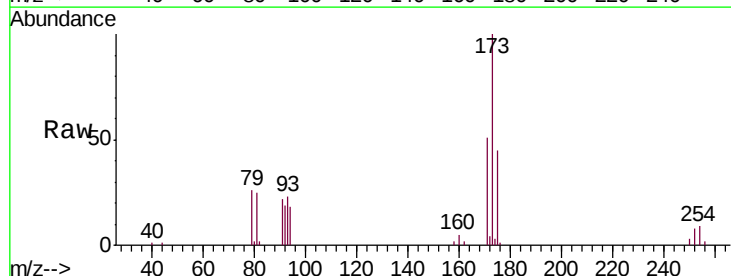
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

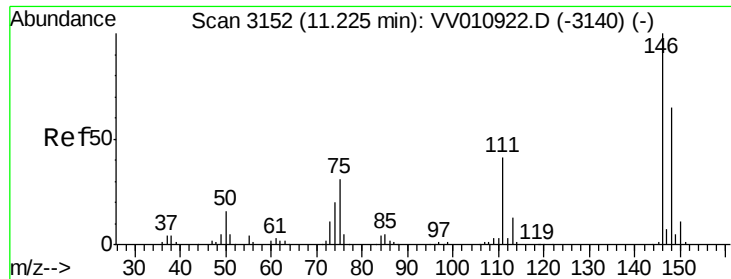
Tgt Ion: 75 Resp: 41199
 Ion Ratio Lower Upper
 75 100
 77 32.4 26.4 39.6



#62
 Bromoform
 Concen: 25.392 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion: 173 Resp: 27810
 Ion Ratio Lower Upper
 173 100
 175 48.2 38.1 57.1
 254 8.4 5.4 8.2#

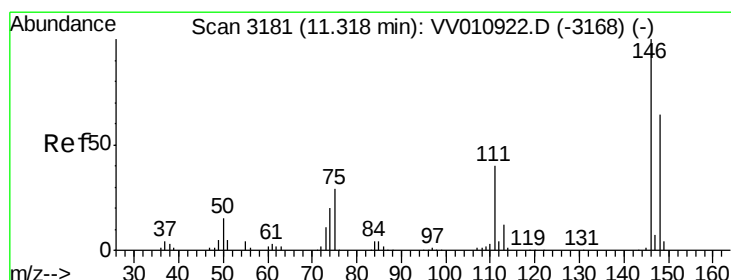
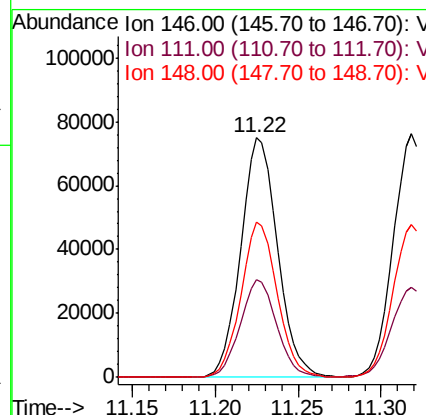
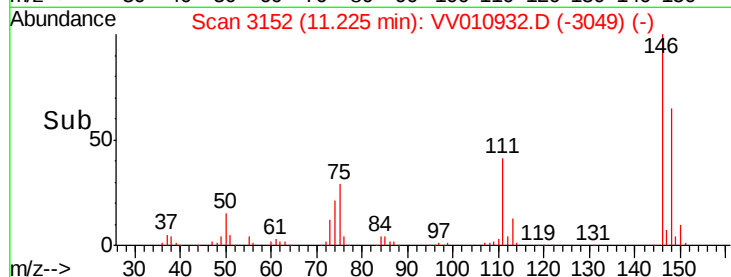
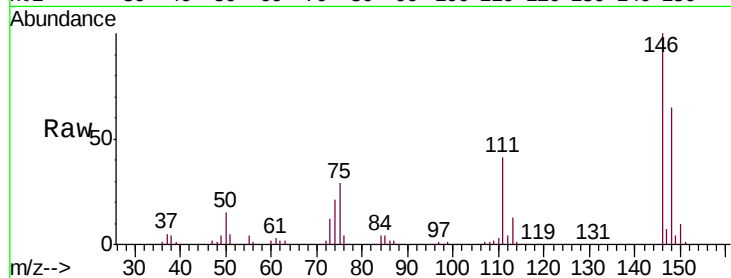




#63
 1,3-Dichlorobenzene
 Concen: 23.915 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

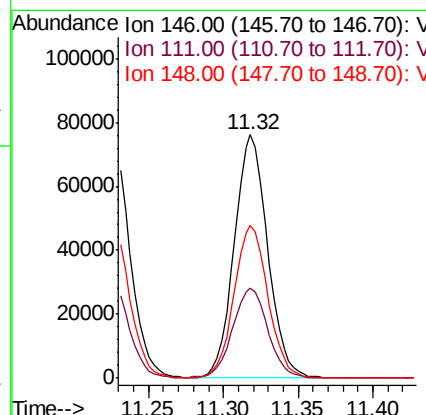
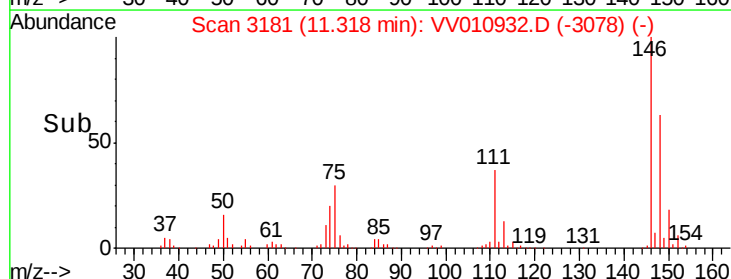
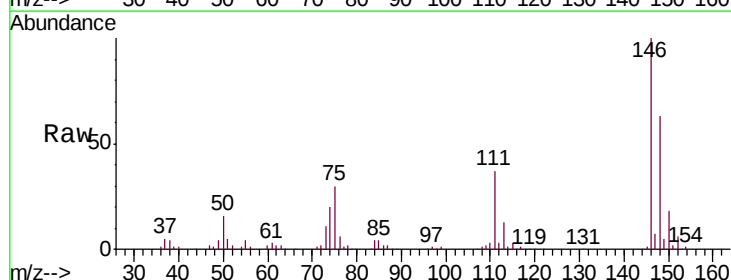
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

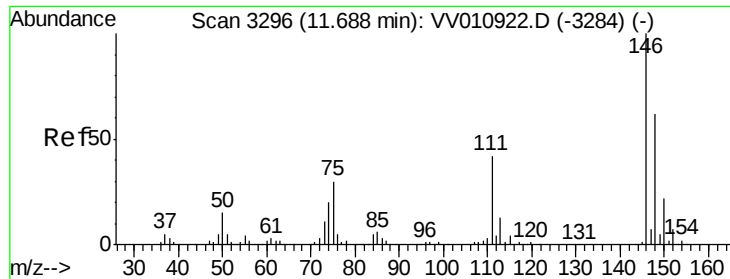
Tgt Ion:146 Resp: 115940
 Ion Ratio Lower Upper
 146 100
 111 40.8 28.1 52.1
 148 64.6 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 23.573 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion:146 Resp: 118389
 Ion Ratio Lower Upper
 146 100
 111 37.2 27.9 51.7
 148 62.9 45.9 85.3





#65

1,2-Dichlorobenzene

Concen: 22.986 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

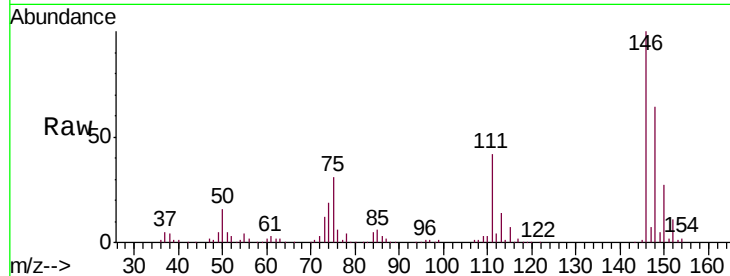
Tgt Ion:146 Resp: 111174

Ion Ratio Lower Upper

146 100

111 42.4 33.4 50.0

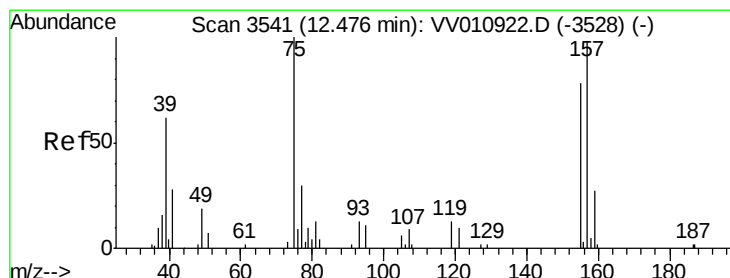
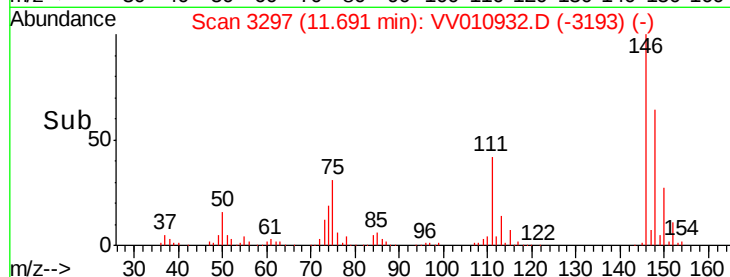
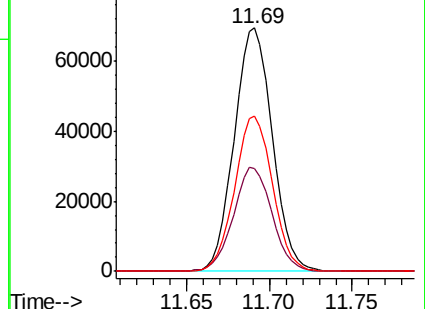
148 63.6 49.1 73.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 24.377 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

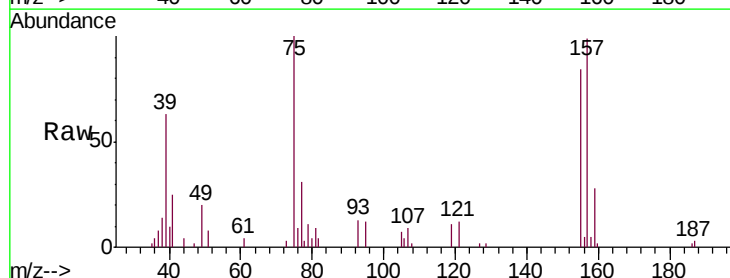
Tgt Ion: 75 Resp: 8830

Ion Ratio Lower Upper

75 100

157 99.5 97.6 146.4

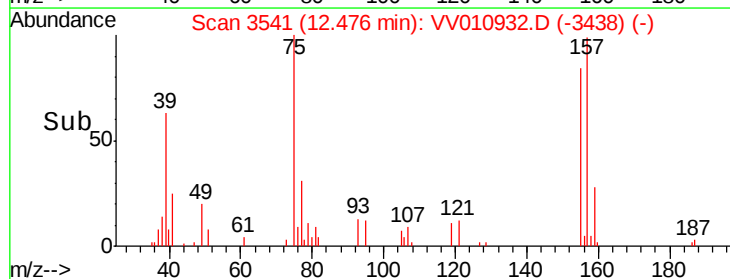
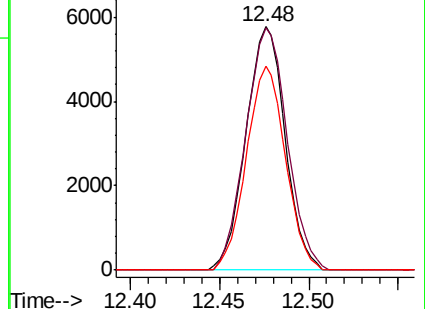
155 83.7 63.6 95.4

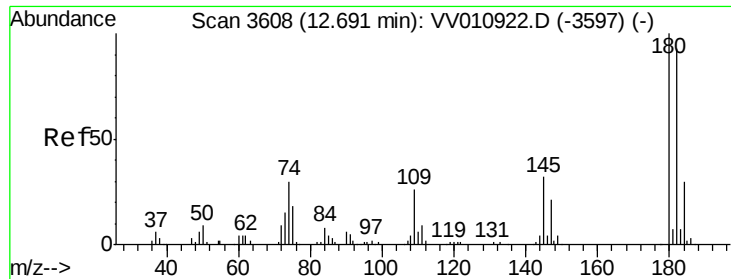


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

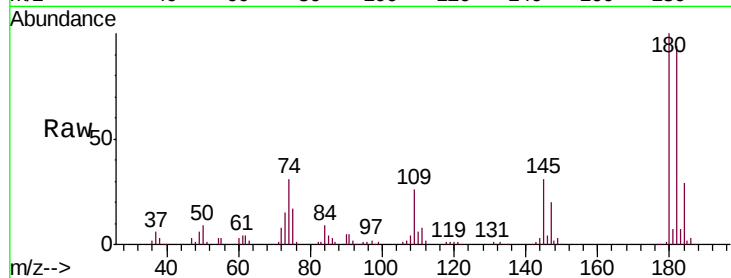




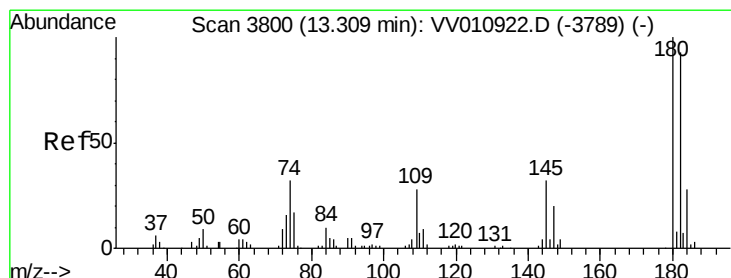
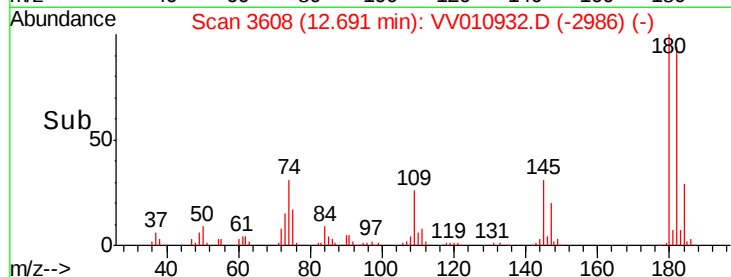
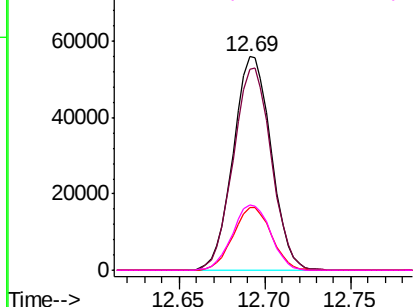
#67
 1,3,5-Trichlorobenzene
 Concen: 24.346 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

Tgt Ion:180 Resp: 86016
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.9 113.9
 184 29.7 24.1 36.1
 145 30.8 25.4 38.0

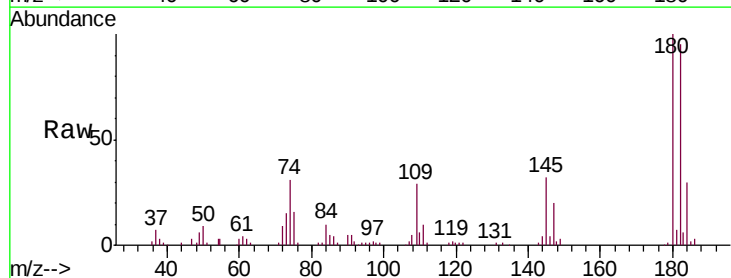


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

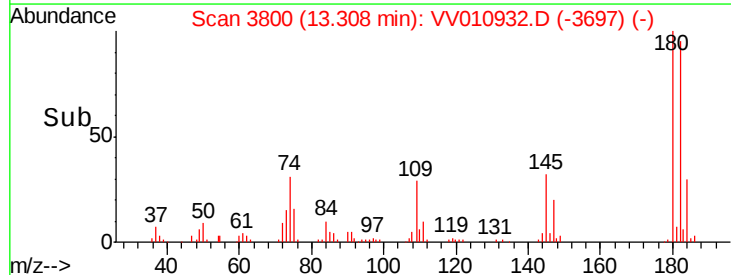
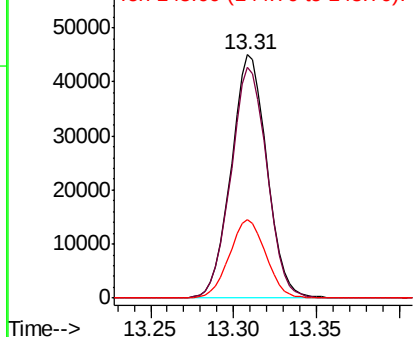


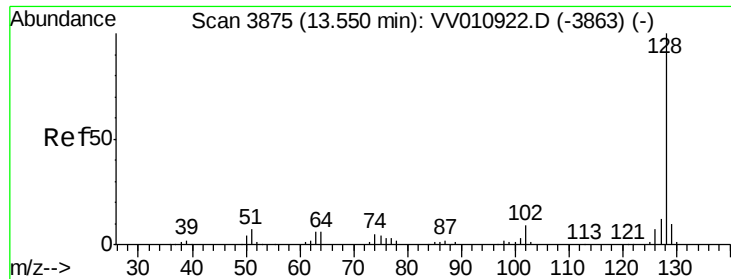
#68
 1,2,4-trichlorobenzene
 Concen: 23.733 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010932.D
 Acq: 16 May 2019 15:43

Tgt Ion:180 Resp: 67707
 Ion Ratio Lower Upper
 180 100
 182 95.4 74.2 111.2
 145 32.7 25.4 38.0



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





#69

Naphthalene

Concen: 23.470 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

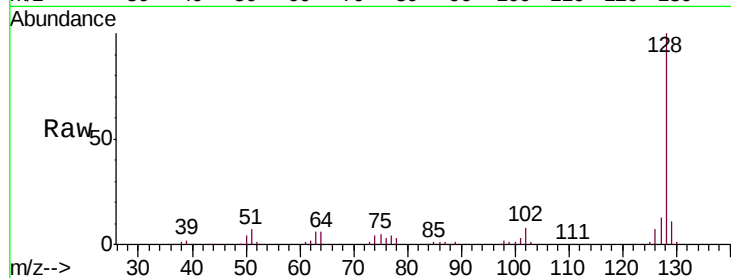
Tgt Ion:128 Resp: 140258

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

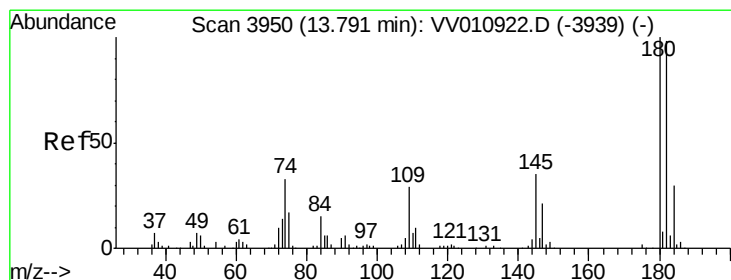
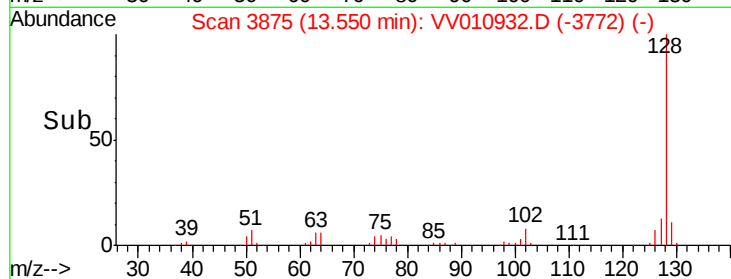
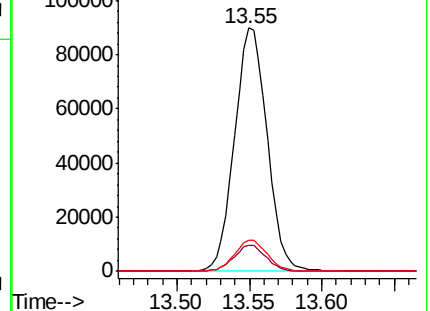
127 12.8 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 24.027 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010932.D

Acq: 16 May 2019 15:43

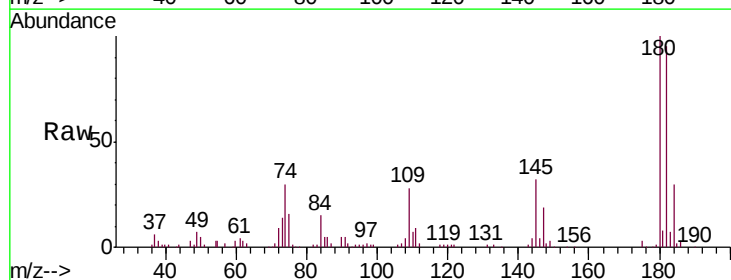
Tgt Ion:180 Resp: 65239

Ion Ratio Lower Upper

180 100

182 94.7 75.8 113.6

145 33.4 26.8 40.2



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

