

Data File : VV012958.D
Acq On : 24 Sep 2019 13:27
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Quant Time: Sep 25 00:54:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 16:19:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	867062	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	827647	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	448283	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	310898	23.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.44%
7) Chloroethane-d5	1.58	69	251880	23.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.64%
10) 1,1-Dichloroethene-d2	2.13	63	517655	23.14	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.56%
20) 2-Butanone-d5	3.93	46	195113	42.00	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.00%
24) Chloroform-d	4.40	84	546909	22.96	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.84%
26) 1,2-Dichloroethane-d4	5.08	65	310389	22.42	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.68%
29) Benzene-d6	5.09	84	1152664	24.94	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.76%
33) 1,2-Dichloropropane-d6	6.11	67	351526	24.27	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.08%
37) Toluene-d8	7.36	98	1071457	25.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.16%
38) trans-1,3-Dichloropropene-	7.66	79	146452	23.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.52%
39) 2-Hexanone-d5	8.13	63	144598	49.61	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.22%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	310098	22.54	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.16%
61) 1,2-Dichlorobenzene-d4	11.67	152	415661	23.87	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.48%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	261244	27.359	ug/L 98
3) Chloromethane	1.25	50	295325	23.683	ug/L 100
5) Vinyl chloride	1.32	62	307543	24.980	ug/L 99
6) Bromomethane	1.53	94	163476	21.271	ug/L 99
8) Chloroethane	1.60	64	188722	24.945	ug/L 100
9) Trichlorofluoromethane	1.77	101	410522	24.654	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	259681	24.400	ug/L 99
12) 1,1-Dichloroethene	2.14	96	241735	24.663	ug/L 95
13) Acetone	2.19	43	193069	39.105	ug/L 98
14) Carbon disulfide	2.32	76	754211	24.089	ug/L 100
15) Methyl Acetate	2.46	43	158511	20.700	ug/L 98
16) Methylene chloride	2.53	84	315436	24.339	ug/L 97
17) Methyl tert-butyl Ether	2.80	73	691946	24.060	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	281290	24.246	ug/L 100
19) 1,1-Dichloroethane	3.23	63	507061	23.950	ug/L 100
21) 2-Butanone	4.01	43	225405	39.230	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	313959	24.726	ug/L 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	146976	23.435	ug/L	99
25) Chloroform	4.42	83	518438	23.355	ug/L	100
27) 1,2-Dichloroethane	5.18	62	362336	23.094	ug/L	100
30) Cyclohexane	4.72	56	481915	27.140	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	416308	25.415	ug/L	99
32) Carbon tetrachloride	4.87	117	374336	25.203	ug/L	99
34) Benzene	5.14	78	1186899	25.763	ug/L	100
35) Trichloroethene	5.96	95	316448	24.657	ug/L	99
36) Methylcyclohexane	6.17	83	528457	26.823	ug/L	99
40) 1,2-Dichloropropane	6.22	63	301685	25.181	ug/L	100
41) Bromodichloromethane	6.55	83	379312	24.718	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	456829	25.950	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	446295	45.341	ug/L	98
44) Toluene	7.43	91	1277594	26.294	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	373200	25.189	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	242552	23.847	ug/L	100
47) Tetrachloroethene	8.02	164	274941	26.359	ug/L	98
49) 2-Hexanone	8.18	43	346217	46.662	ug/L	98
50) Dibromochloromethane	8.29	129	280813	24.021	ug/L	99
51) 1,2-Dibromoethane	8.39	107	236909	23.769	ug/L	100
52) Chlorobenzene	8.92	112	826397	24.646	ug/L	99
53) Ethylbenzene	9.05	91	1404009	26.244	ug/L	100
54) m,p-Xylene	9.18	106	542592	26.678	ug/L	100
55) o-xylene	9.59	106	517938	26.727	ug/L	99
56) Styrene	9.60	104	902856	26.479	ug/L	100
57) Isopropylbenzene	9.97	105	1378817	27.073	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	289395	23.002	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	230059	22.154	ug/L	100
62) Bromoform	9.77	173	174121	22.890	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	684766	24.816	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	705999	24.378	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	649006	24.658	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	49175	21.073	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	566936	26.266	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	493101	26.125	ug/L	99
69) Naphthalene	13.55	128	973384	25.640	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	473990	26.119	ug/L	99

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

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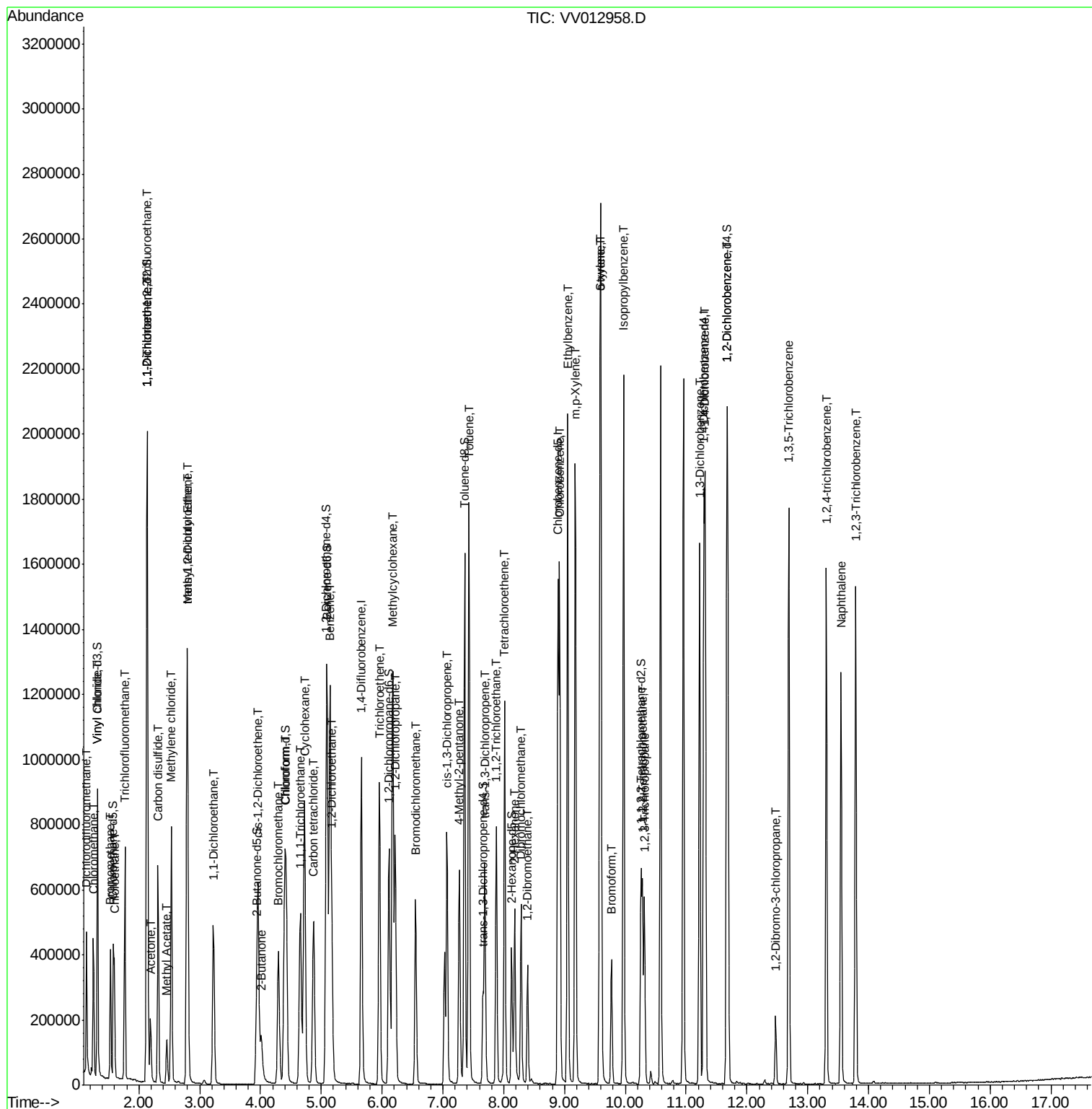
Quant Time: Sep 25 00:54:05 2019

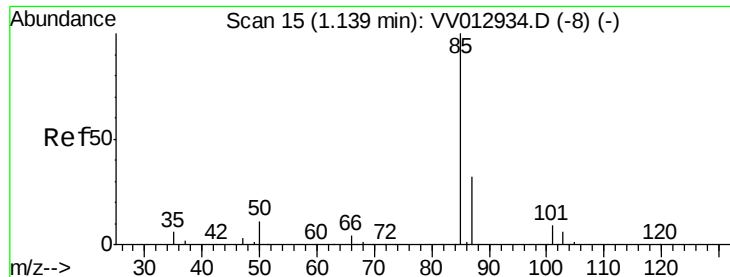
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM092319S.M

Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 27.359 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

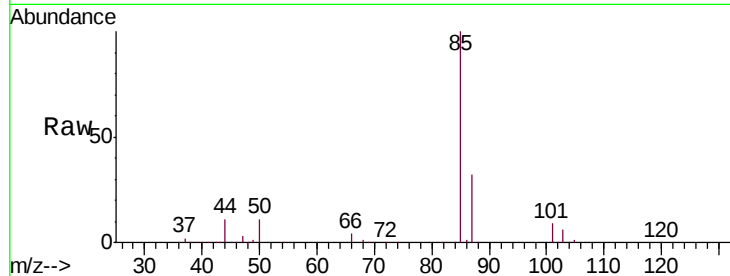
VSTD02569

Tgt Ion: 85 Resp: 261244

Ion Ratio Lower Upper

85 100

87 31.8 23.2 43.0

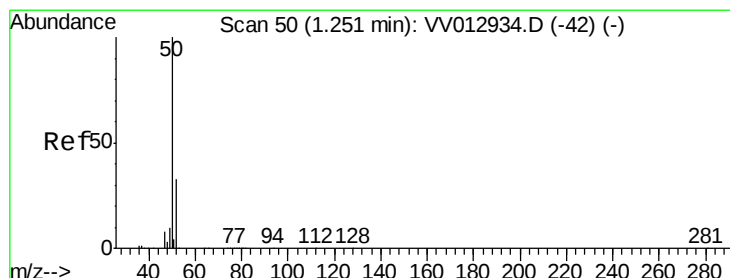
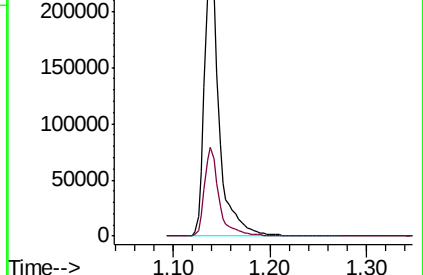
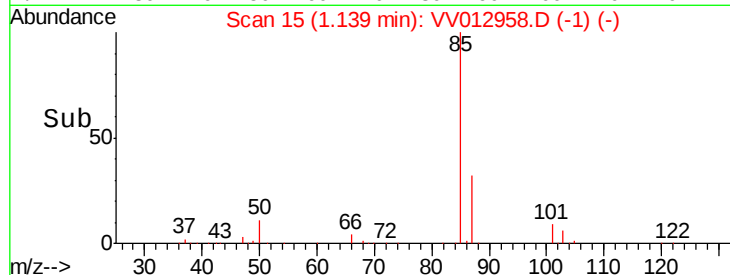


Abundance Ion 85.00 (84.70 to 85.70): VV012934.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012934.D (-8) (-)

1.14

Time-->



#3

Chloromethane

Concen: 23.683 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012958.D

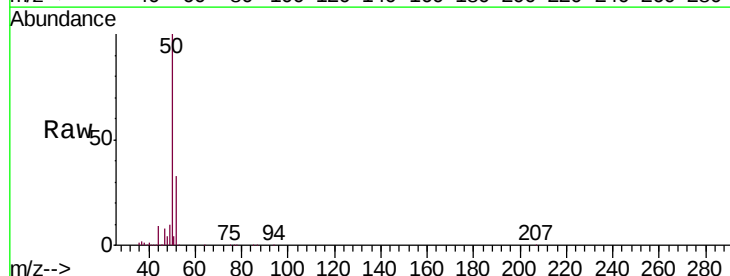
Acq: 24 Sep 2019 13:27

Tgt Ion: 50 Resp: 295325

Ion Ratio Lower Upper

50 100

52 32.7 22.7 42.1

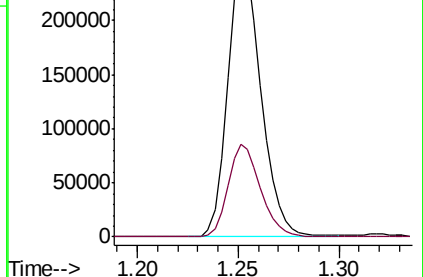
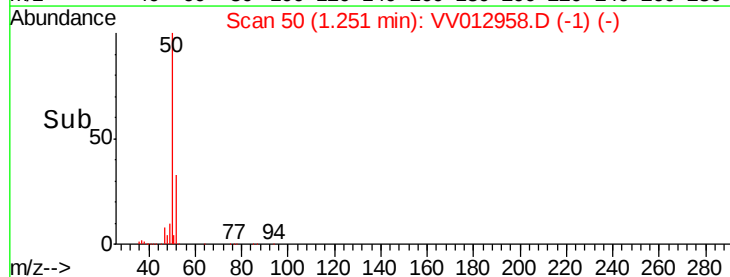


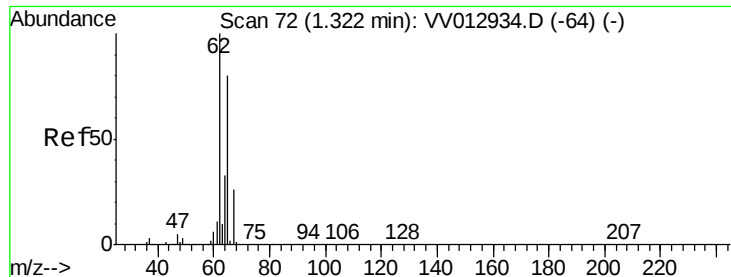
Abundance Ion 50.00 (49.70 to 50.70): VV012934.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV012934.D (-42) (-)

1.25

Time-->





#5

Vinyl chloride

Concen: 24.980 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

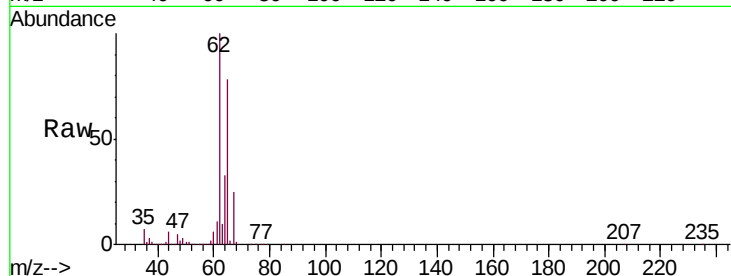
VSTD02569

Tgt Ion: 62 Resp: 307543

Ion Ratio Lower Upper

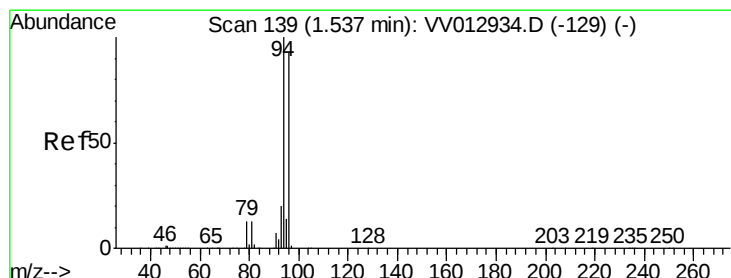
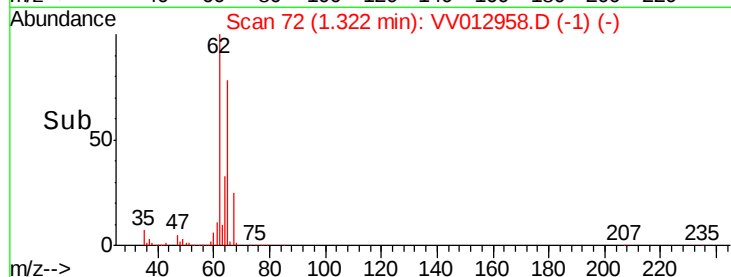
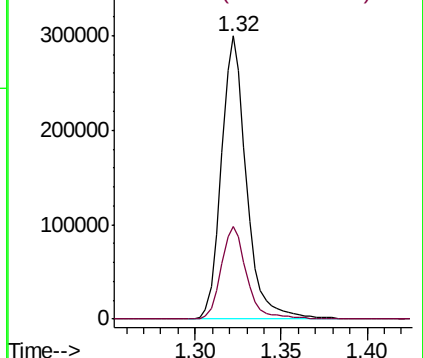
62 100

64 32.8 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 21.271 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.01 min

Lab File: VV012958.D

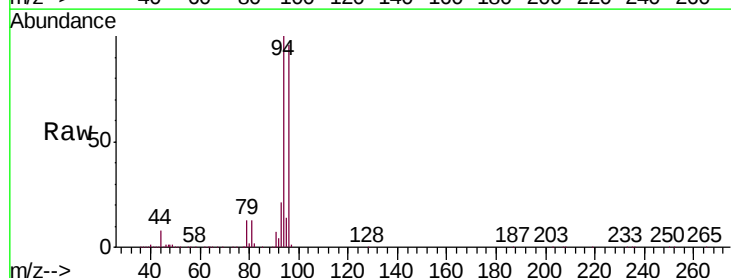
Acq: 24 Sep 2019 13:27

Tgt Ion: 94 Resp: 163476

Ion Ratio Lower Upper

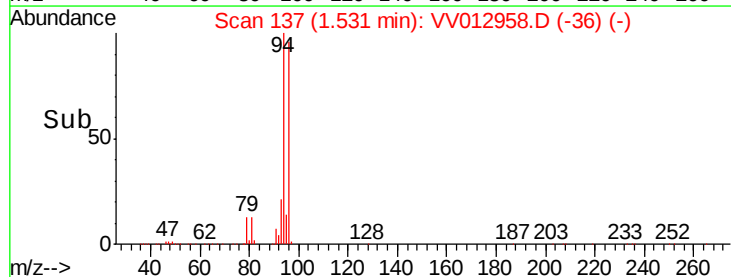
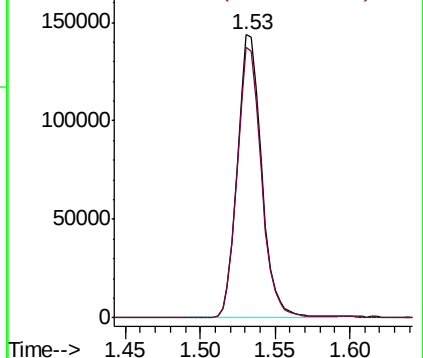
94 100

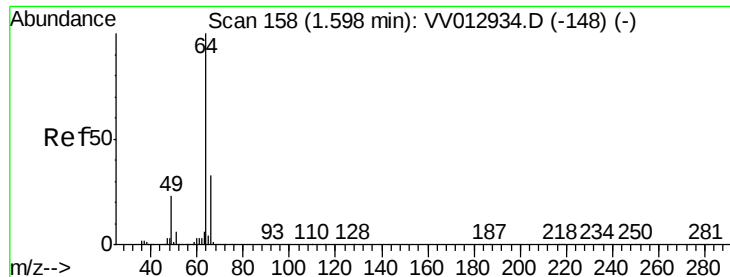
96 95.0 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 24.945 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

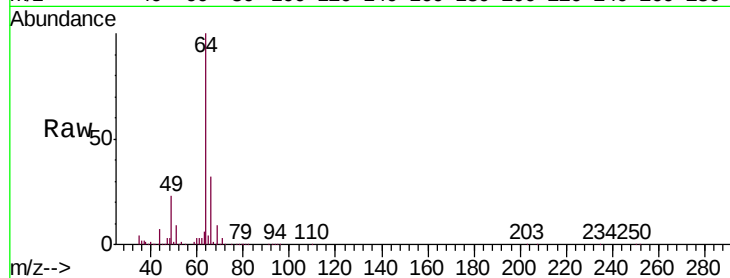
VSTD02569

Tgt Ion: 64 Resp: 188722

Ion Ratio Lower Upper

64 100

66 31.8 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV012934.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV012934.D (-148) (-)

1.60

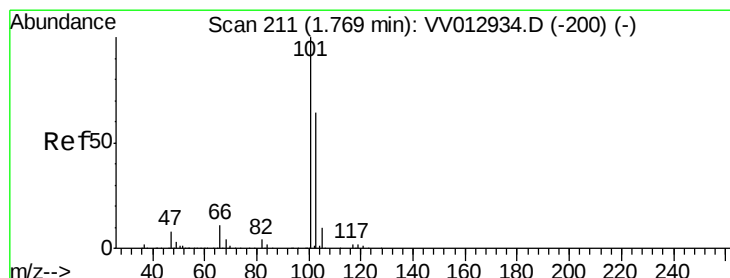
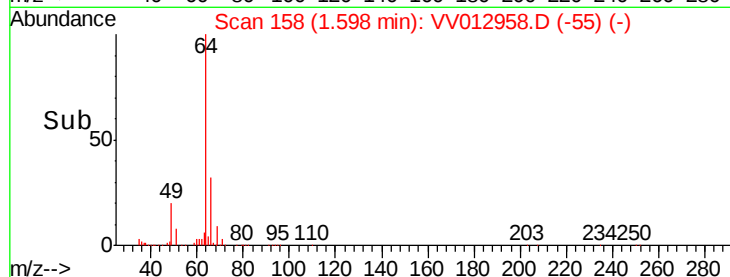
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 24.654 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012958.D

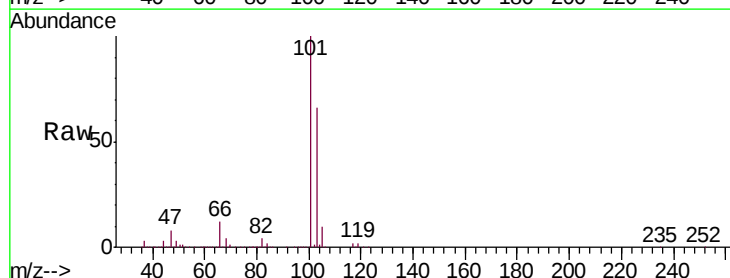
Acq: 24 Sep 2019 13:27

Tgt Ion: 101 Resp: 410522

Ion Ratio Lower Upper

101 100

103 65.2 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV012934.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012934.D (-200) (-)

1.77

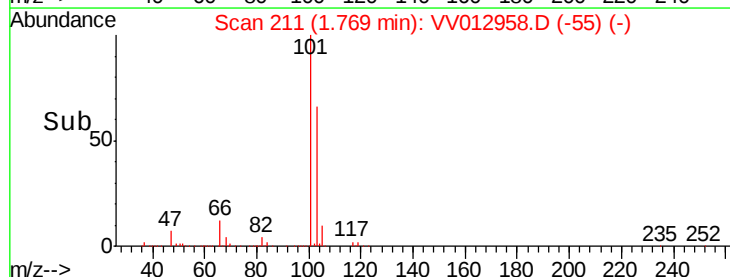
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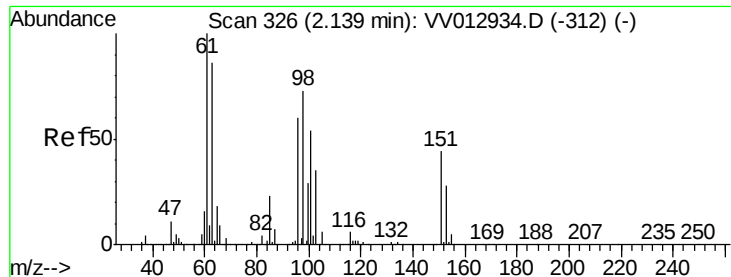
200000

100000

0

Time-->





#11

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

Concen: 24.400 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

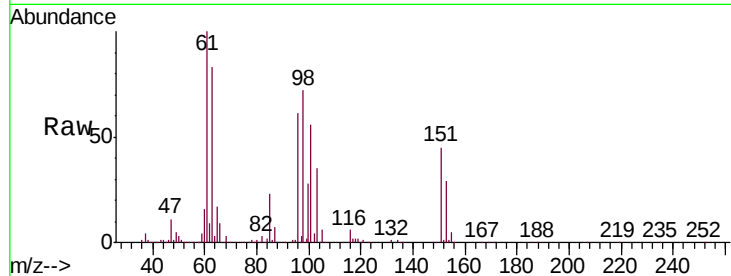
Tgt Ion: 101 Resp: 259681

Ion Ratio Lower Upper

101 100

85 41.0 32.6 49.0

151 81.4 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV012934.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV012934.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV012934.D (-312) (-)

2.14

150000

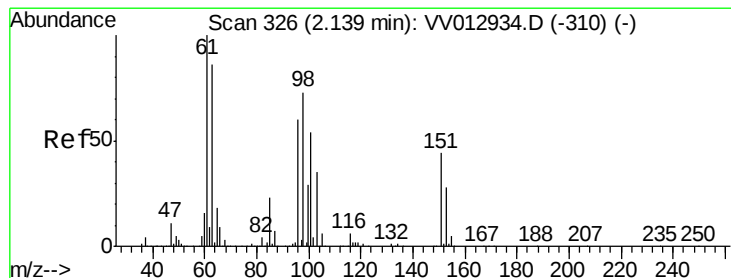
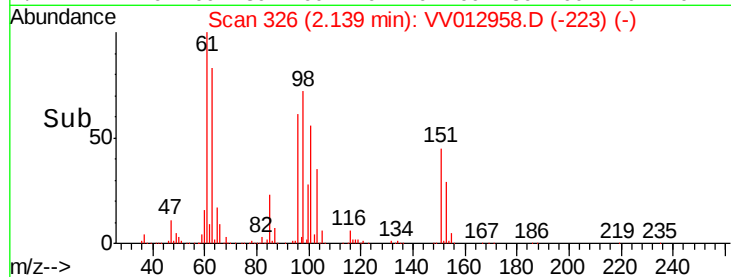
100000

50000

0

2.05 2.10 2.15 2.20

Time-->



#12

1,1-Dichloroethene

Concen: 24.663 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

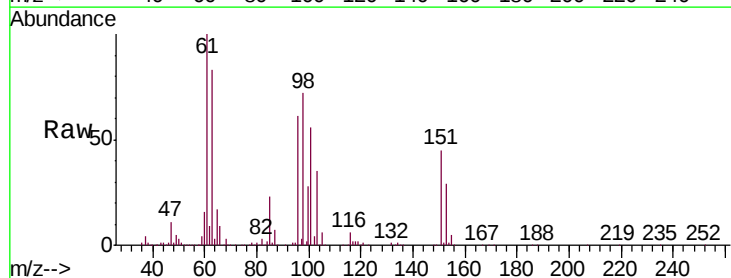
Tgt Ion: 96 Resp: 241735

Ion Ratio Lower Upper

96 100

61 164.3 117.2 217.8

63 137.2 89.6 166.4



Abundance Ion 96.00 (95.70 to 96.70): VV012934.D (-310) (-)

Ion 61.00 (60.70 to 61.70): VV012934.D (-310) (-)

Ion 63.00 (62.70 to 63.70): VV012934.D (-310) (-)

2.14

400000

300000

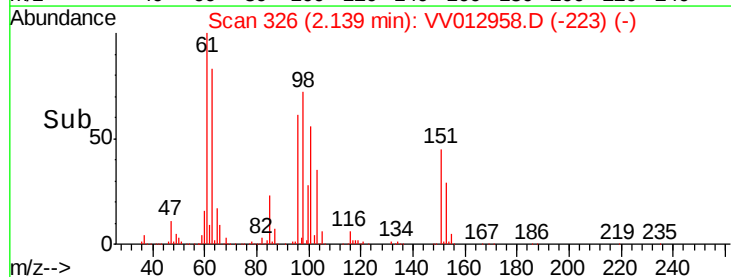
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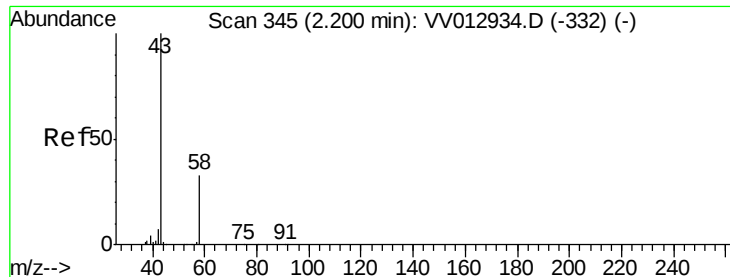
100000

0

2.05 2.10 2.15 2.20

Time-->





#13

Acetone

Concen: 39.105 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

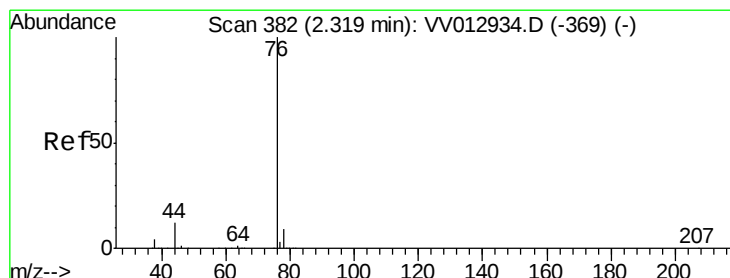
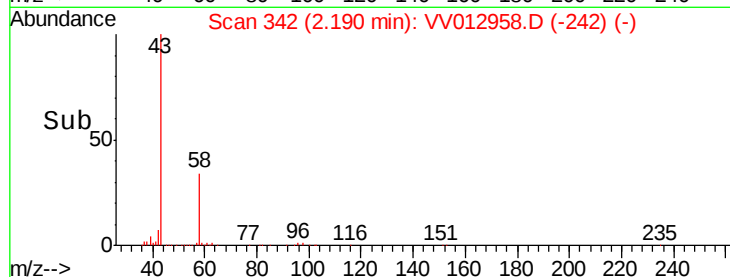
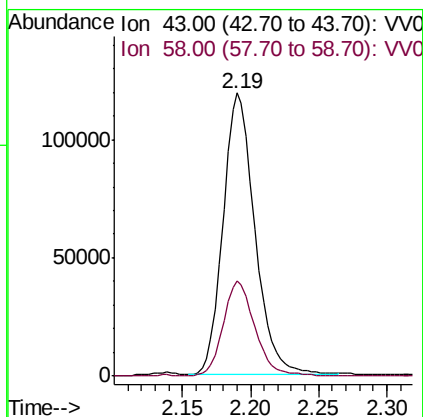
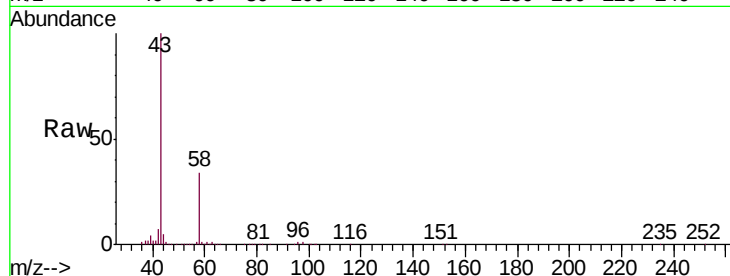
VSTD02569

Tgt Ion: 43 Resp: 193069

Ion Ratio Lower Upper

43 100

58 33.6 0.0 65.0



#14

Carbon disulfide

Concen: 24.089 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012958.D

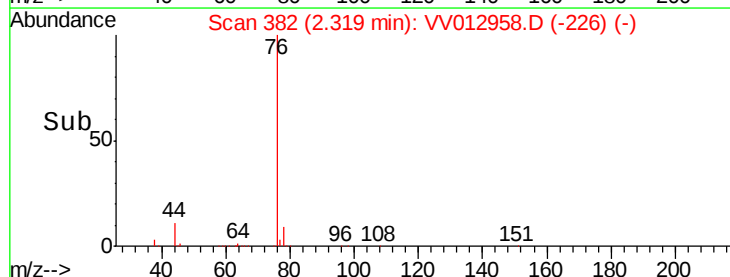
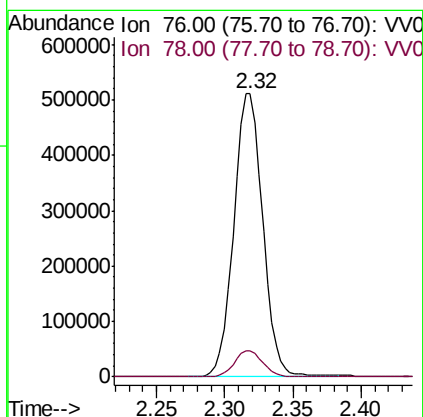
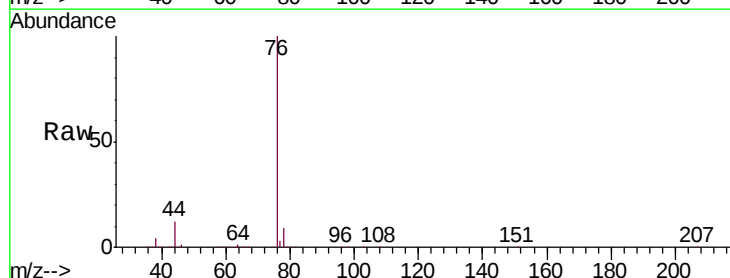
Acq: 24 Sep 2019 13:27

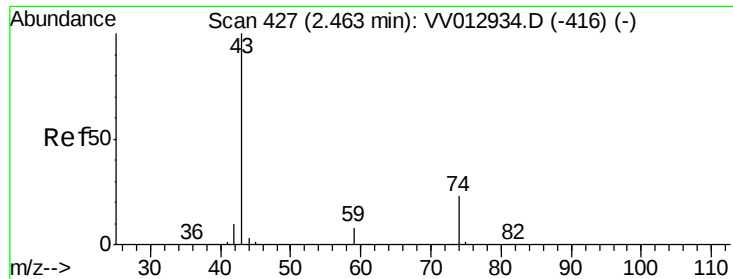
Tgt Ion: 76 Resp: 754211

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9

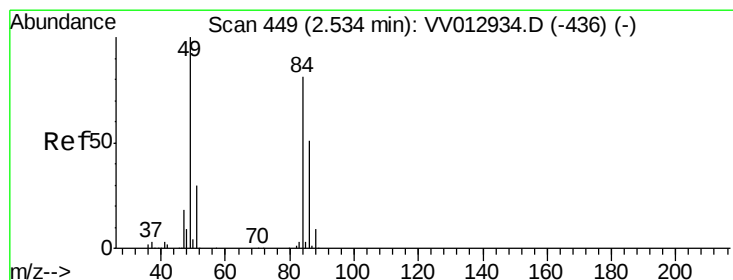
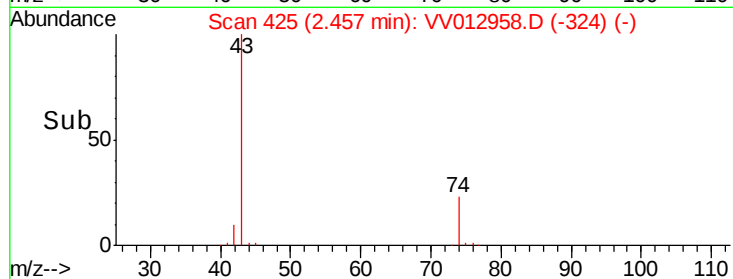
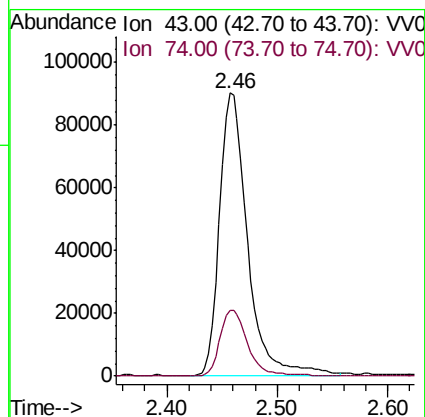
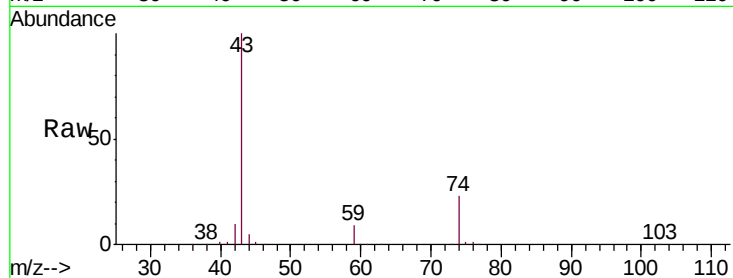




#15
Methyl Acetate
Concen: 20.700 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.01 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

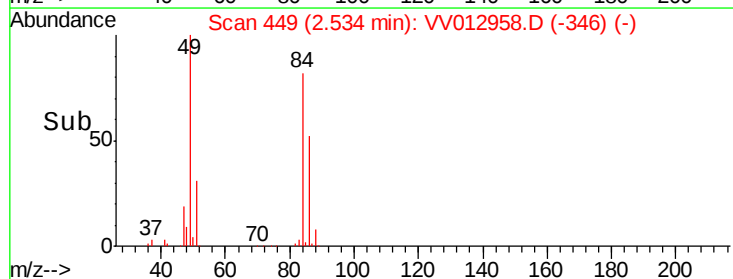
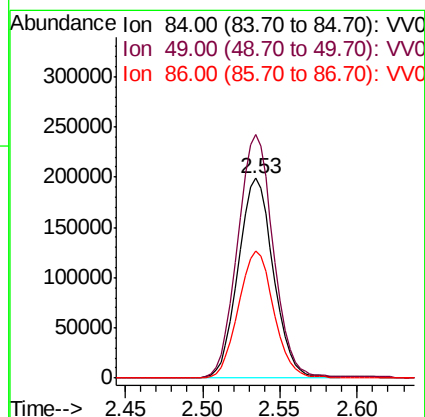
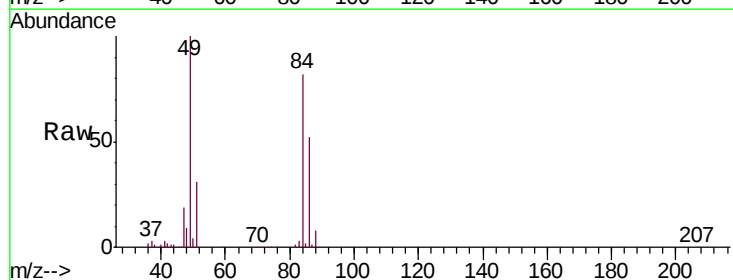
Instrument :
MSVOA_V
ClientSampled :
VSTD02569

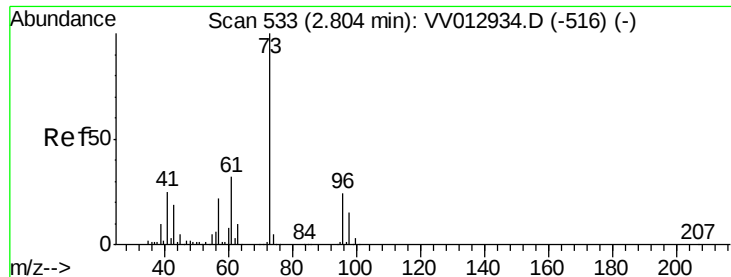
Tgt Ion: 43 Resp: 158511
Ion Ratio Lower Upper
43 100
74 22.7 18.8 28.2



#16
Methylene chloride
Concen: 24.339 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

Tgt Ion: 84 Resp: 315436
Ion Ratio Lower Upper
84 100
49 122.0 88.3 164.1
86 63.6 44.9 83.3

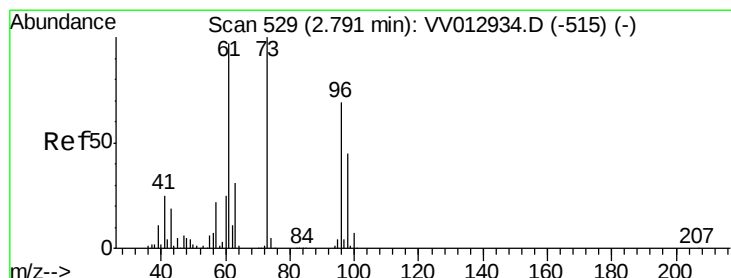
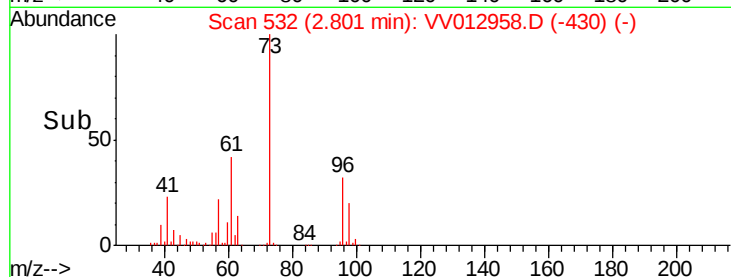
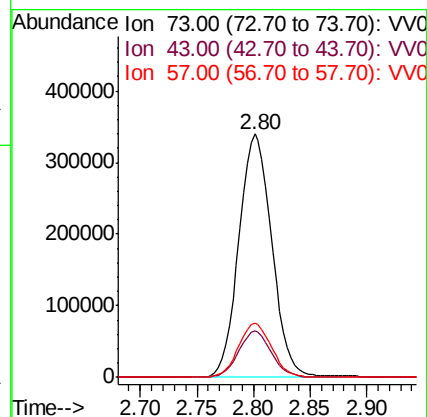
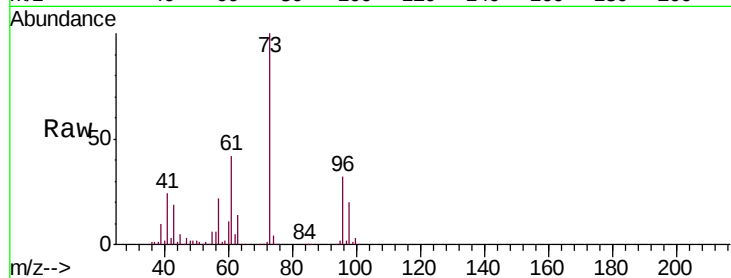




#17
Methyl tert-butyl Ether
Concen: 24.060 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

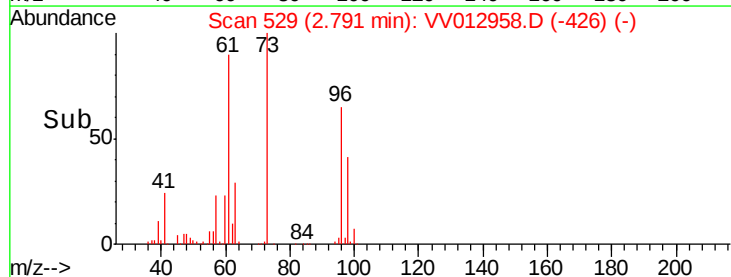
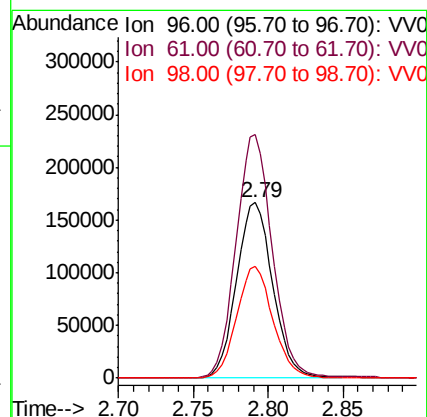
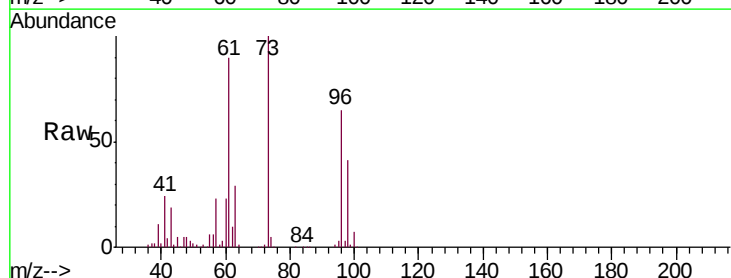
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

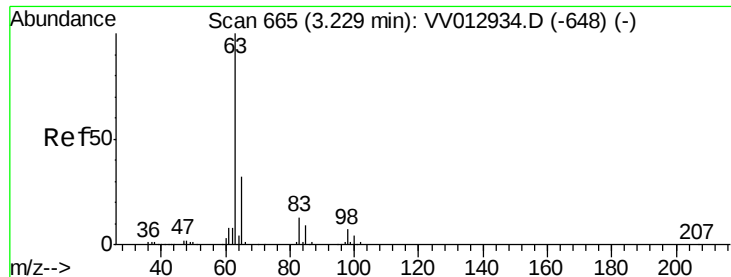
Tgt Ion: 73 Resp: 691946
Ion Ratio Lower Upper
73 100
43 18.7 15.0 22.6
57 22.5 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 24.246 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

Tgt Ion: 96 Resp: 281290
Ion Ratio Lower Upper
96 100
61 139.0 96.8 179.8
98 63.9 44.8 83.2

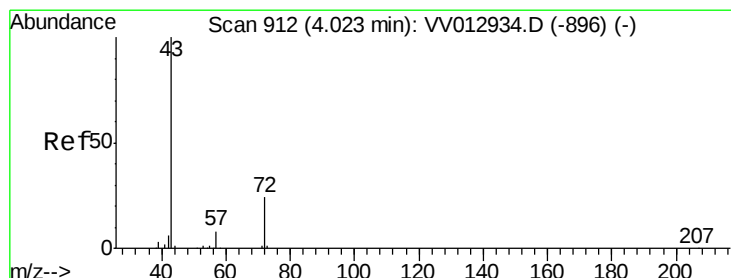
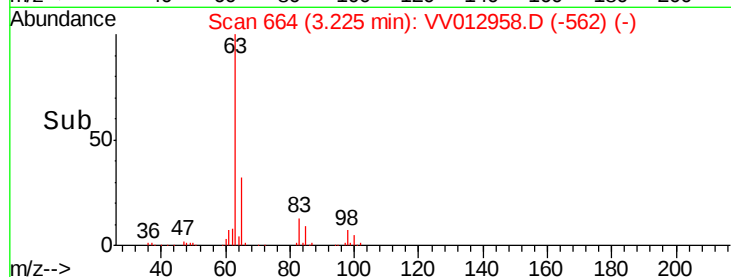
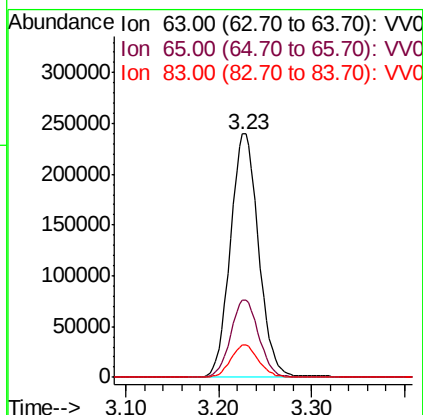
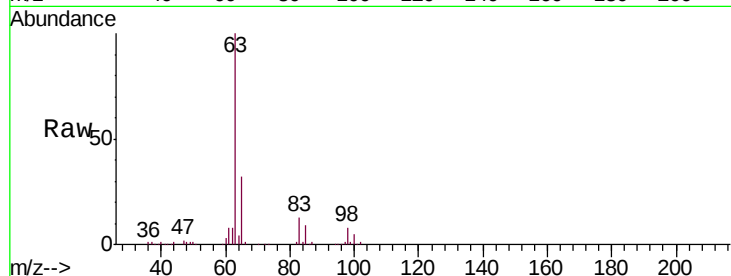




#19
 1,1-Dichloroethane
 Concen: 23.950 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

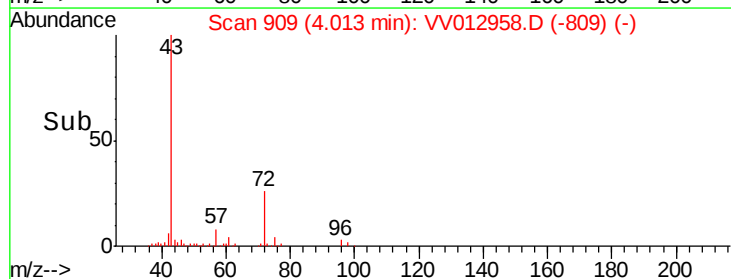
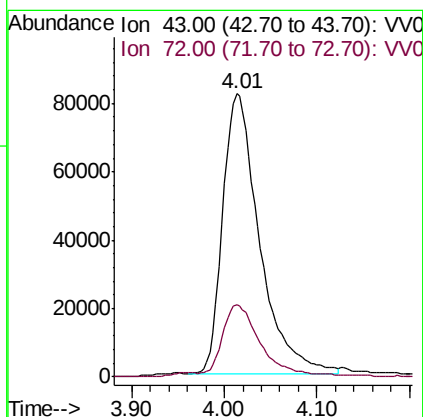
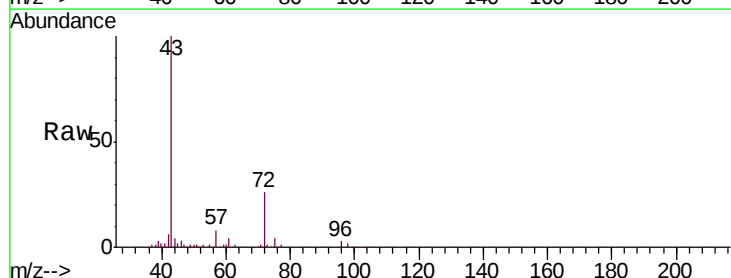
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

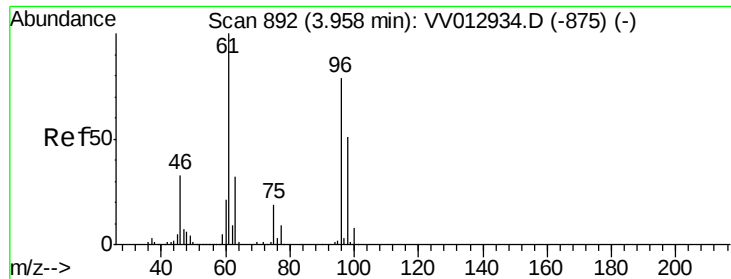
Tgt Ion: 63 Resp: 507061
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.0 41.0
 83 13.2 9.2 17.0



#21
 2-Butanone
 Concen: 39.230 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

Tgt Ion: 43 Resp: 225405
 Ion Ratio Lower Upper
 43 100
 72 25.4 11.9 35.9



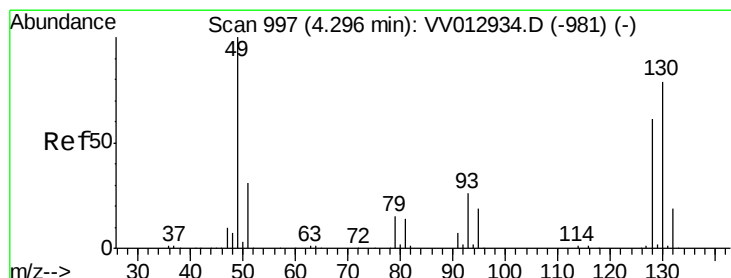
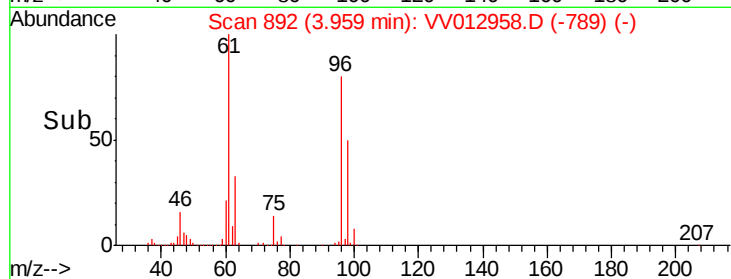
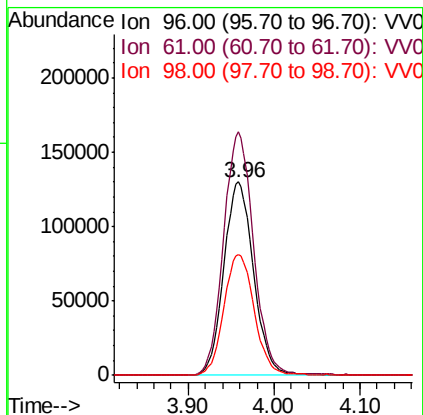
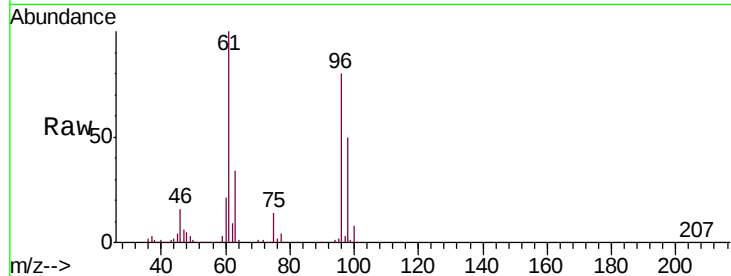


#22

cis-1,2-Dichloroethene
Concen: 24.726 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

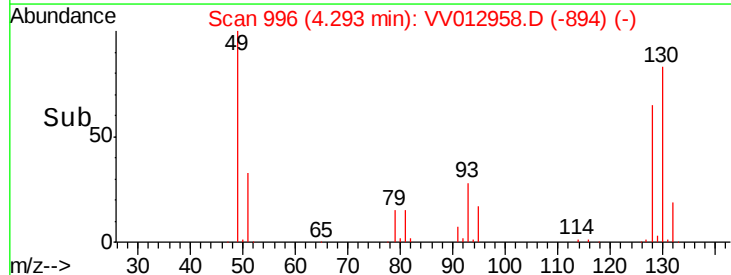
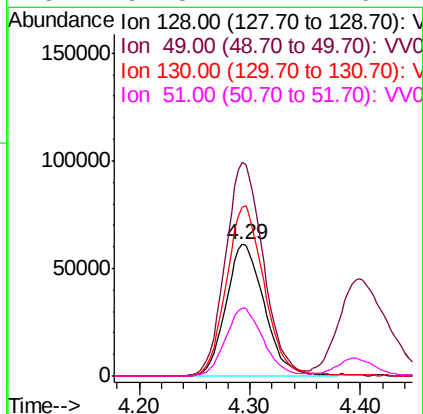
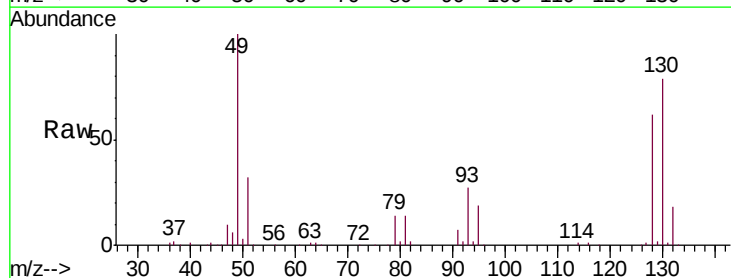
Tgt Ion: 96 Resp: 313959
Ion Ratio Lower Upper
96 100
61 125.7 90.9 168.7
98 62.7 45.6 84.6

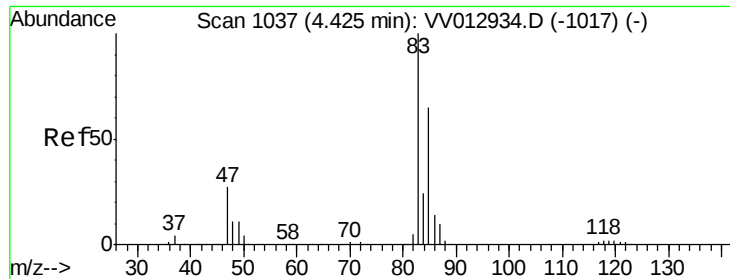


#23

Bromochloromethane
Concen: 23.435 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

Tgt Ion: 128 Resp: 146976
Ion Ratio Lower Upper
128 100
49 162.2 114.4 212.6
130 128.6 88.5 164.4
51 51.8 41.4 62.2





#25

Chloroform

Concen: 23.355 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

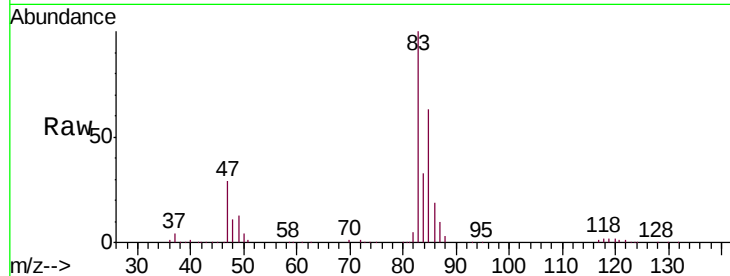
VSTD02569

Tgt Ion: 83 Resp: 518438

Ion Ratio Lower Upper

83 100

85 65.5 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VV012934.D (-1017) (-)

Ion 85.00 (84.70 to 85.70): VV012934.D (-1017) (-)

250000

200000

150000

100000

50000

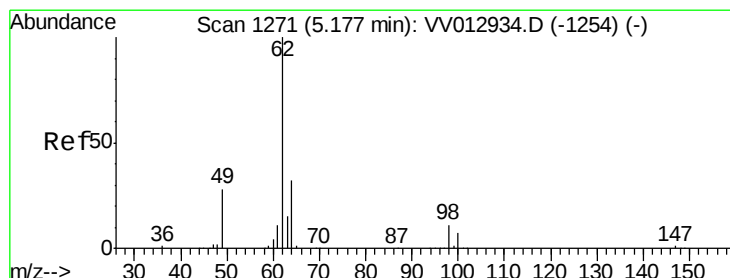
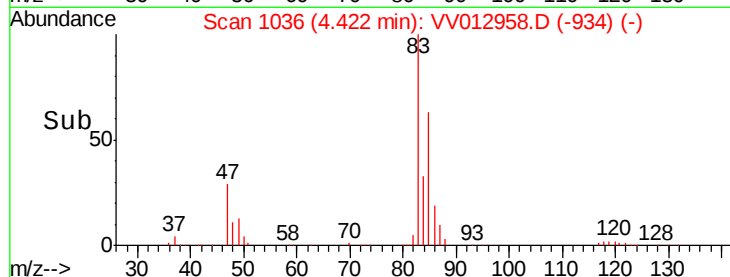
0

4.30

4.40

4.50

Time-->



#27

1,2-Dichloroethane

Concen: 23.094 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV012958.D

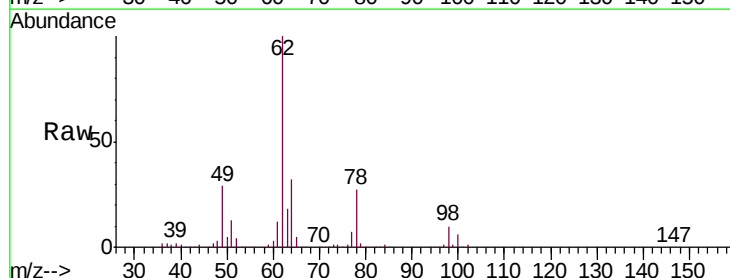
Acq: 24 Sep 2019 13:27

Tgt Ion: 62 Resp: 362336

Ion Ratio Lower Upper

62 100

98 10.2 8.2 12.4



Abundance Ion 62.00 (61.70 to 62.70): VV012934.D (-1254) (-)

Ion 98.00 (97.70 to 98.70): VV012934.D (-1254) (-)

150000

100000

50000

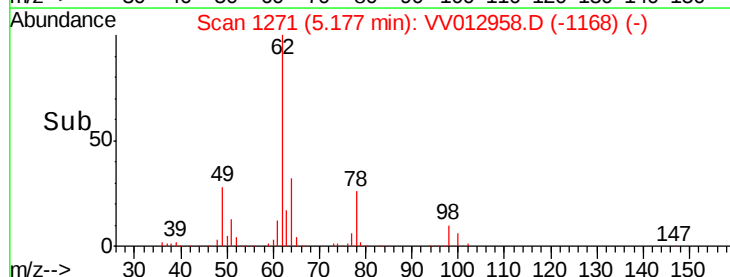
0

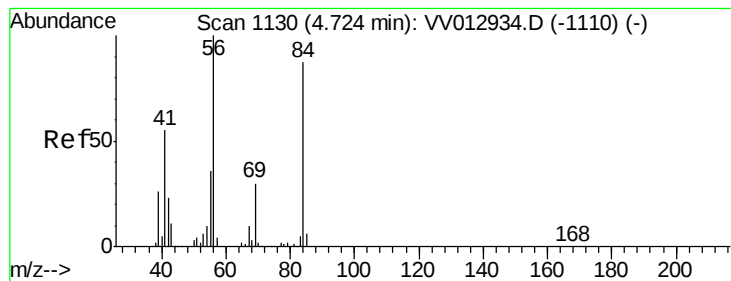
5.10

5.20

5.30

Time-->





#30

Cyclohexane

Concen: 27.140 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

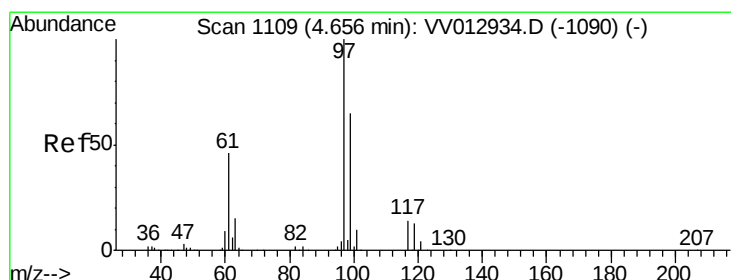
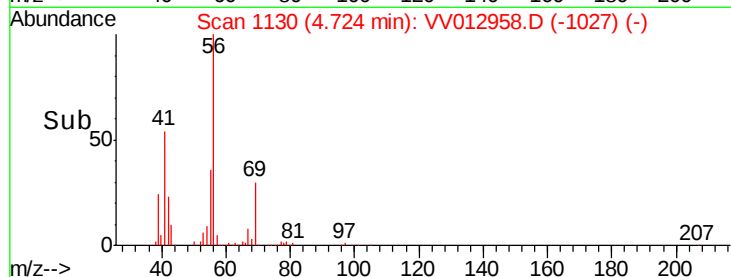
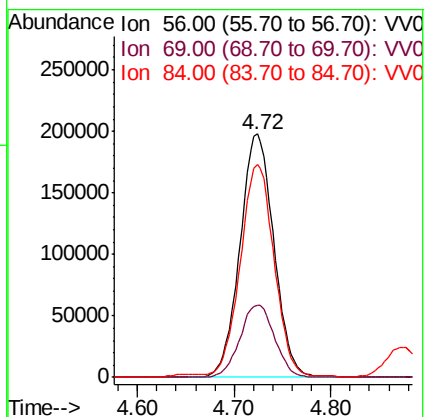
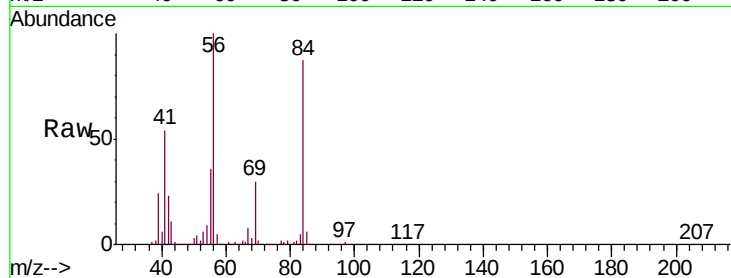
Tgt Ion: 56 Resp: 481915

Ion Ratio Lower Upper

56 100

69 30.4 23.8 35.8

84 86.6 68.4 102.6



#31

1,1,1-Trichloroethane

Concen: 25.415 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

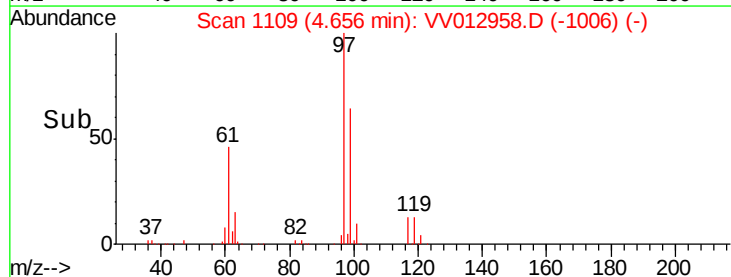
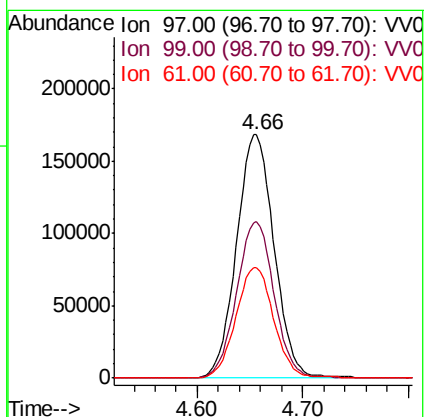
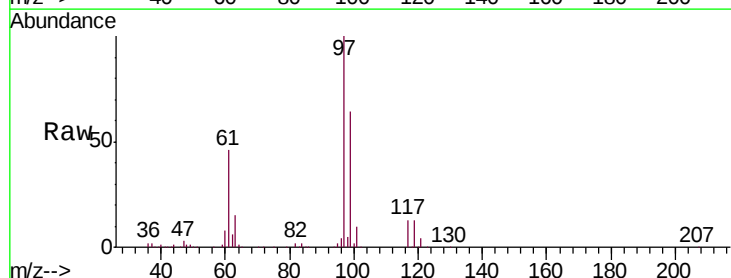
Tgt Ion: 97 Resp: 416308

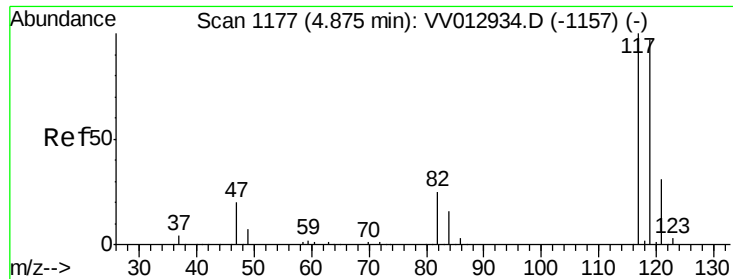
Ion Ratio Lower Upper

97 100

99 64.2 51.7 77.5

61 45.8 37.8 56.8





#32

Carbon tetrachloride

Concen: 25.203 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

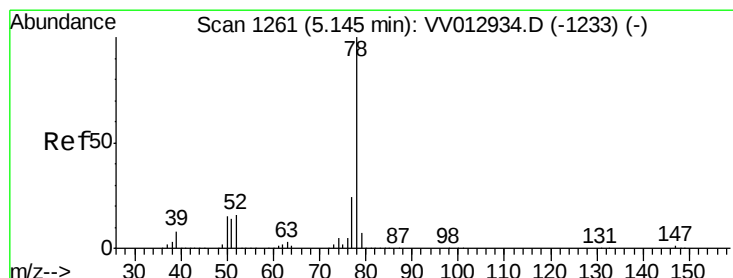
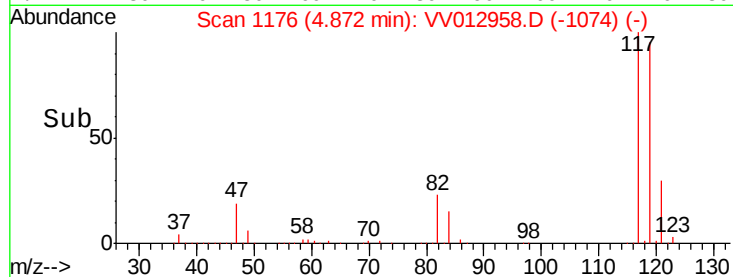
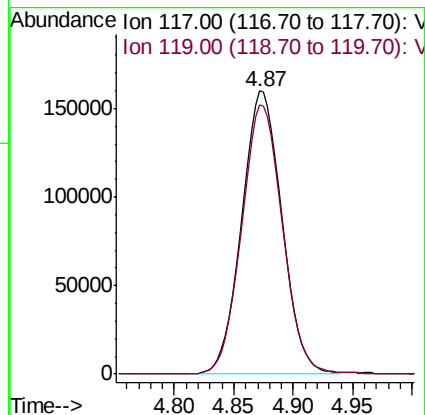
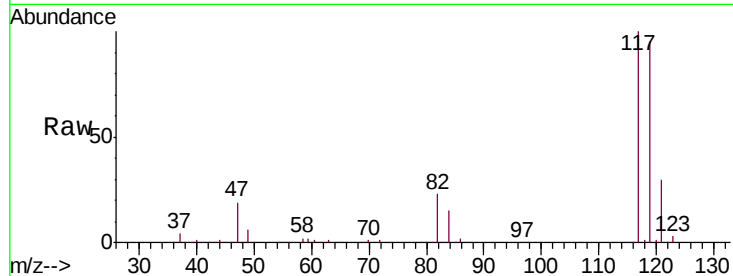
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Tgt Ion:117 Resp: 374336

Ion Ratio Lower Upper

117 100

119 95.9 76.0 114.0



#34

Benzene

Concen: 25.763 ug/L

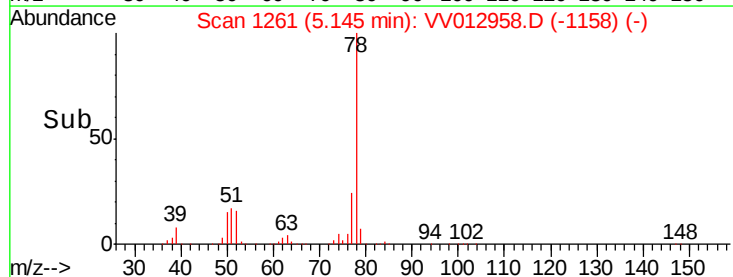
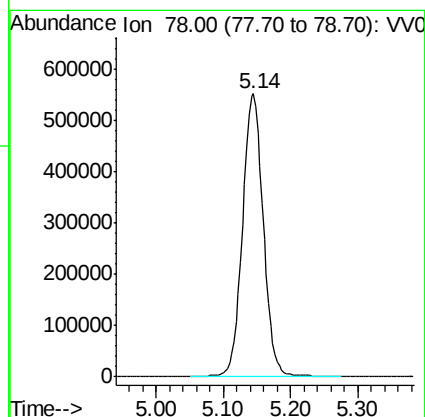
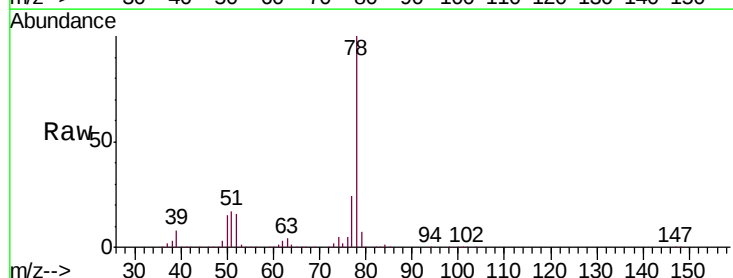
RT: 5.14 min Scan# 1261

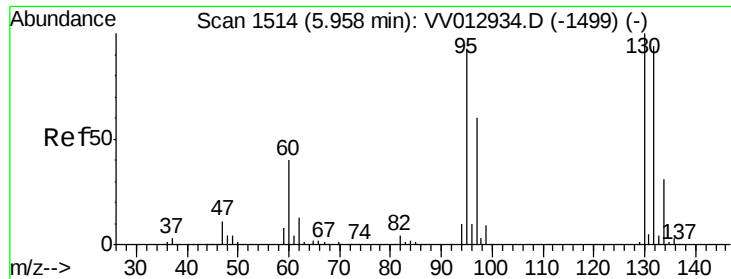
Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Tgt Ion: 78 Resp: 1186899





#35

Trichloroethene

Concen: 24.657 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

Tgt Ion: 95 Resp: 316448

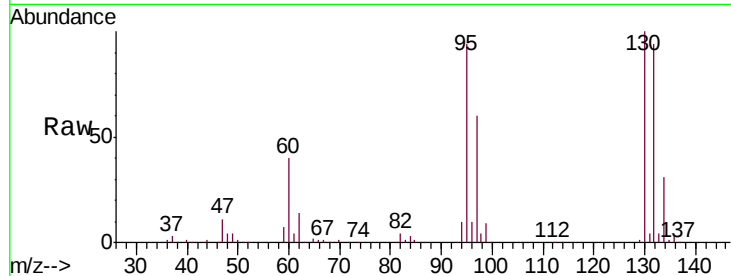
Ion Ratio Lower Upper

95 100

97 63.7 44.7 82.9

132 101.3 70.1 130.1

130 106.4 73.3 136.1

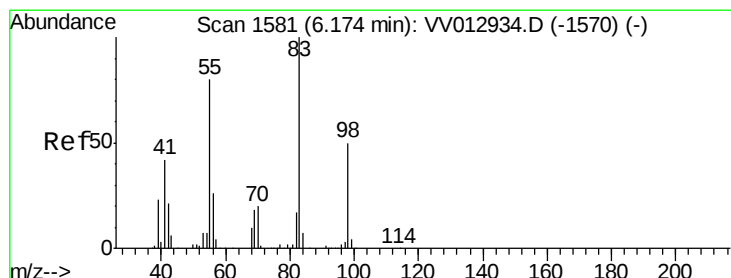
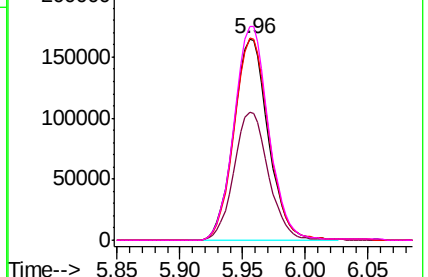
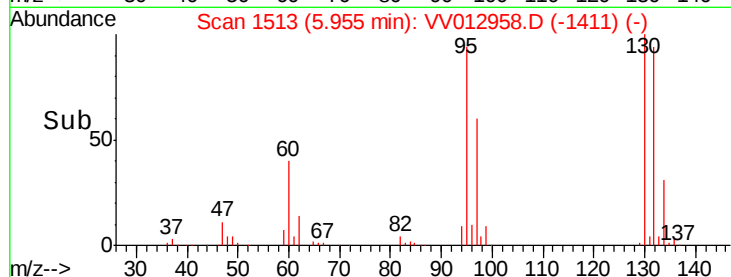


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 26.823 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

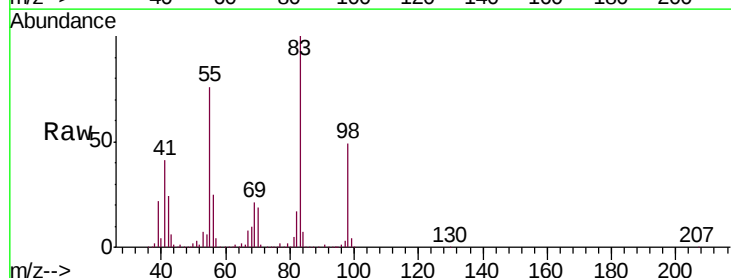
Tgt Ion: 83 Resp: 528457

Ion Ratio Lower Upper

83 100

55 76.5 61.8 92.8

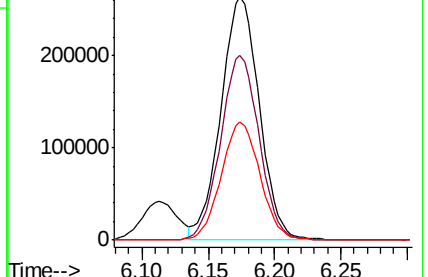
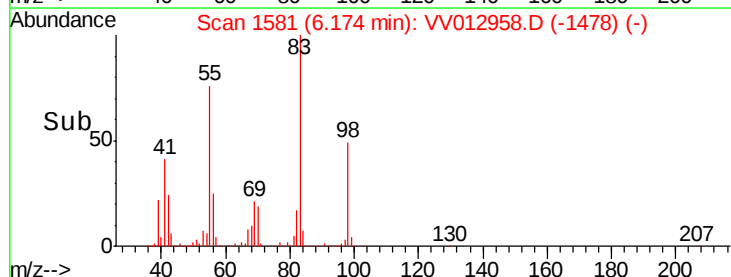
98 49.4 39.3 58.9

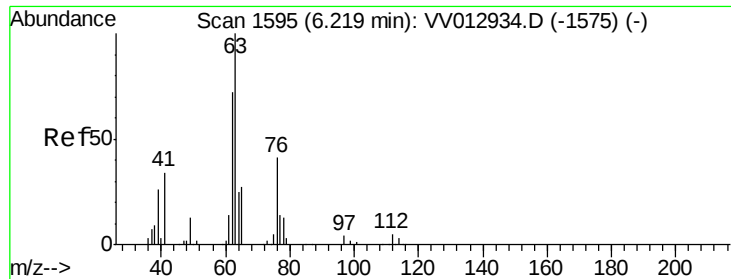


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

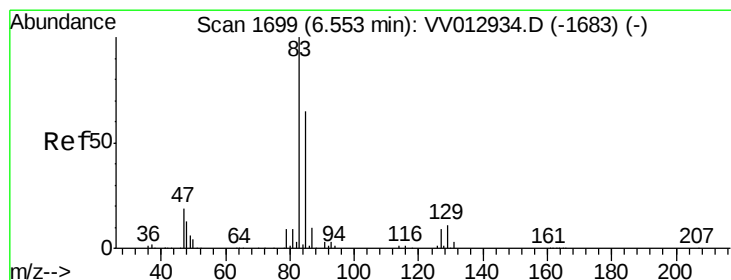
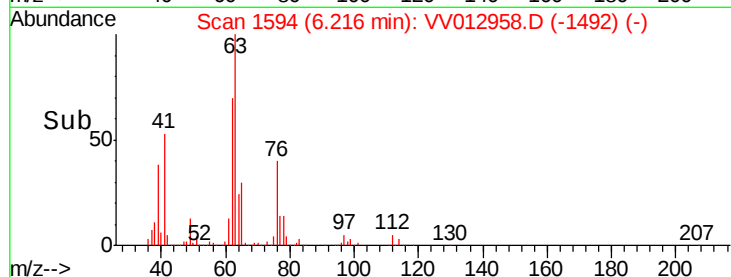
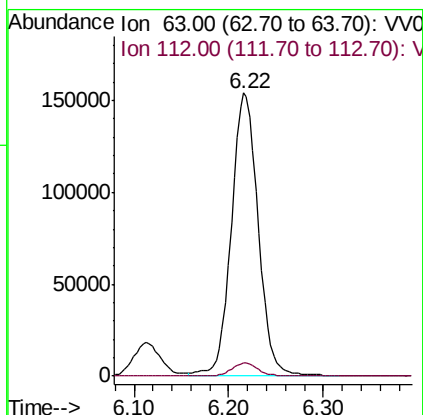
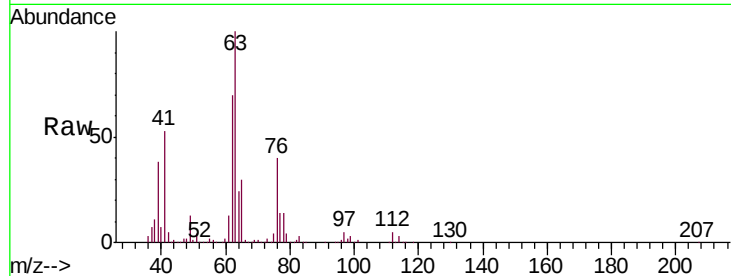




#40
 1,2-Dichloropropane
 Concen: 25.181 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

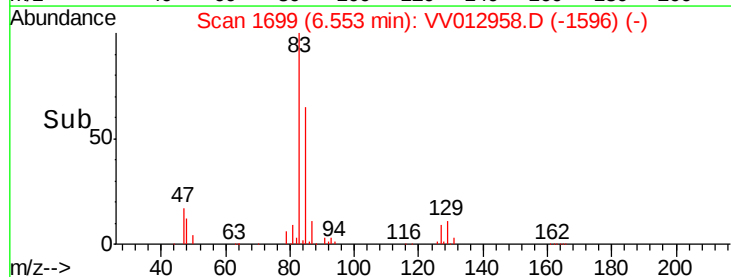
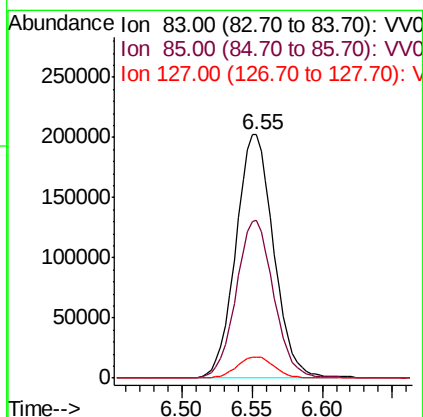
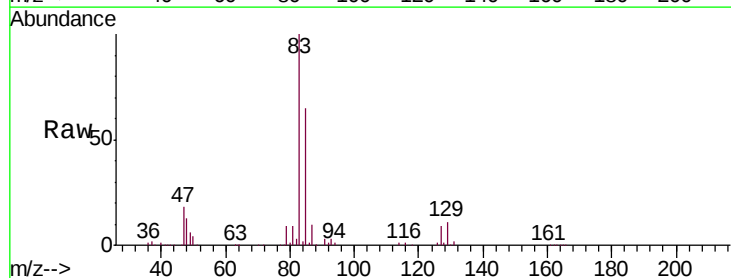
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

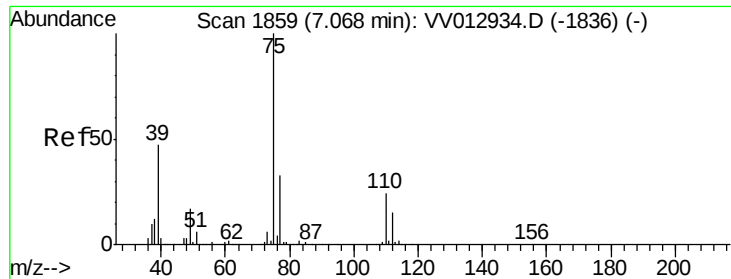
Tgt Ion: 63 Resp: 301685
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.6



#41
 Bromodichloromethane
 Concen: 24.718 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

Tgt Ion: 83 Resp: 379312
 Ion Ratio Lower Upper
 83 100
 85 64.6 45.3 84.1
 127 8.8 7.2 10.8

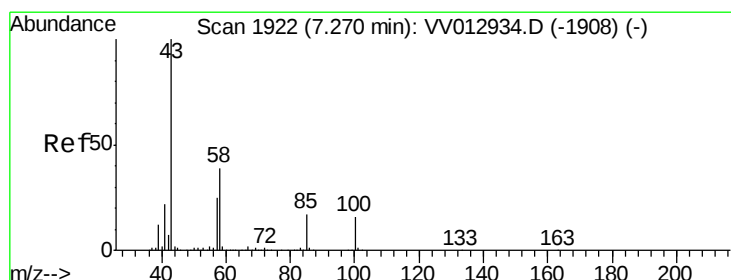
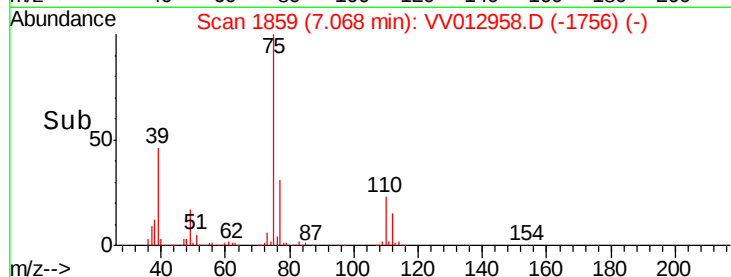
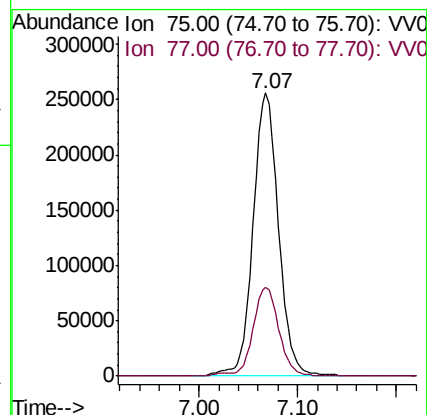
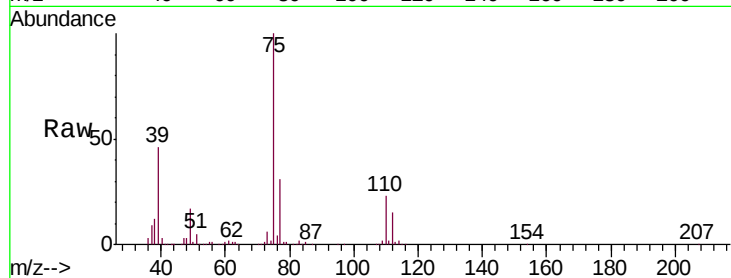




#42
 cis-1,3-Dichloropropene
 Concen: 25.950 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

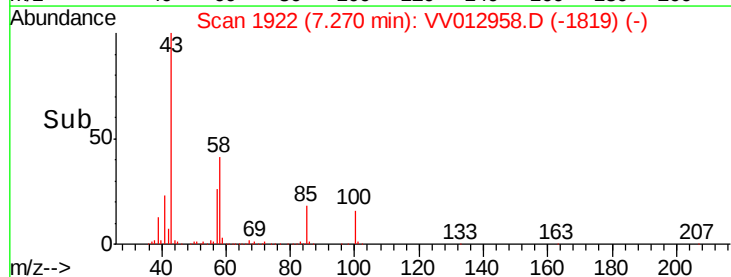
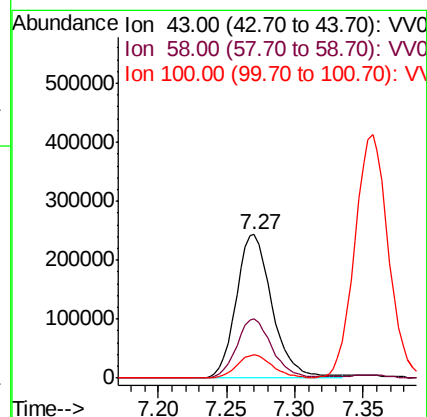
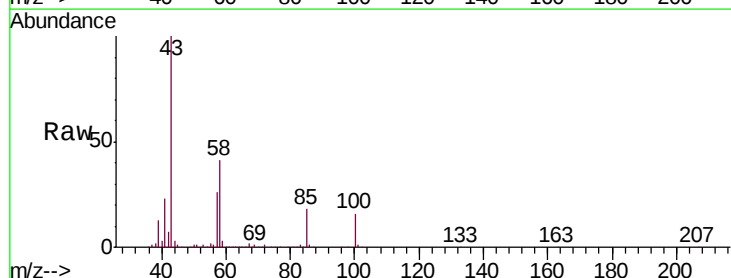
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

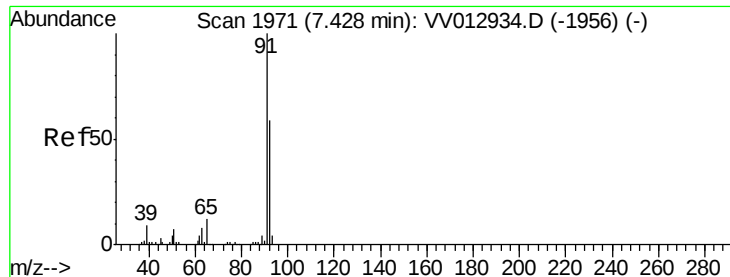
Tgt Ion: 75 Resp: 456829
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.5 39.9



#43
 4-Methyl-2-pentanone
 Concen: 45.341 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

Tgt Ion: 43 Resp: 446295
 Ion Ratio Lower Upper
 43 100
 58 40.6 31.2 46.8
 100 16.0 12.2 18.2





#44

Toluene

Concen: 26.294 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

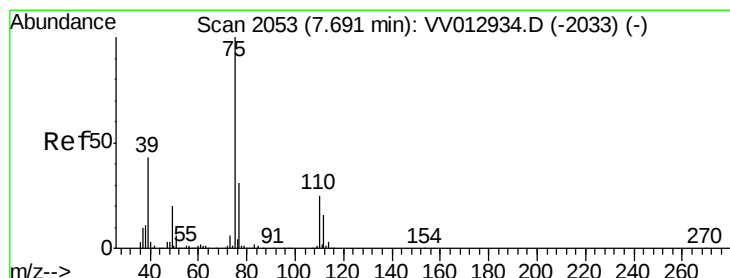
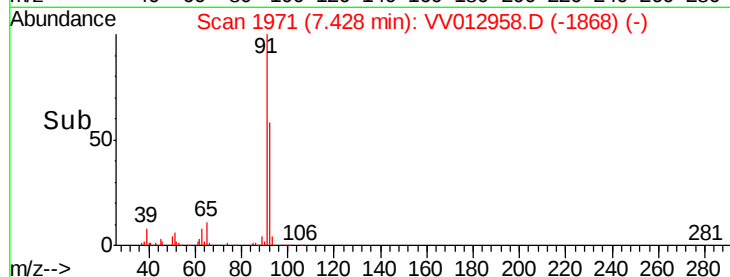
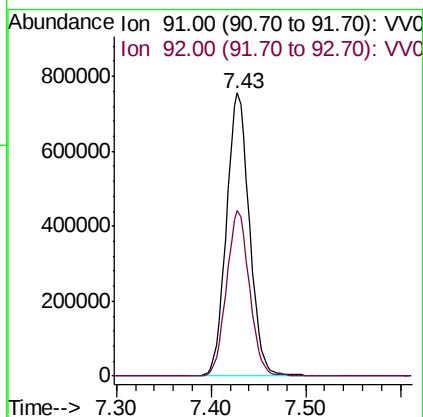
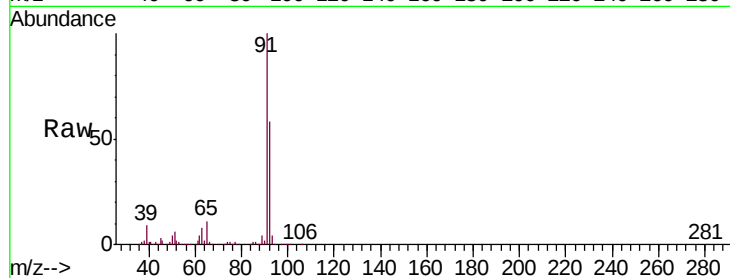
VSTD02569

Tgt Ion: 91 Resp: 1277594

Ion Ratio Lower Upper

91 100

92 58.3 41.3 76.7



#45

trans-1,3-Dichloropropene

Concen: 25.189 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012958.D

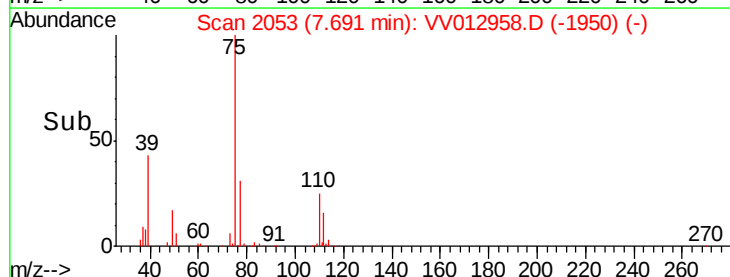
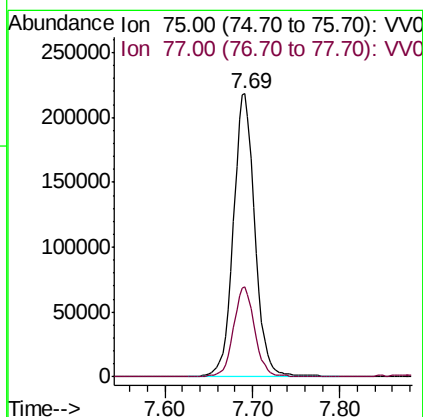
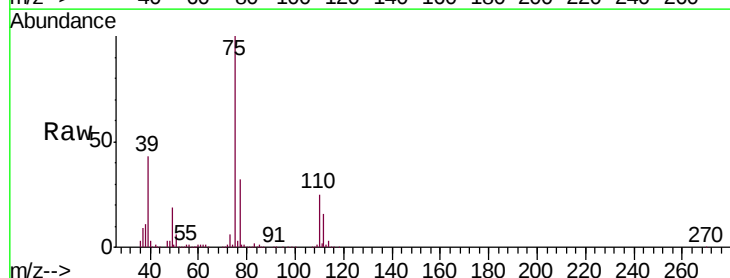
Acq: 24 Sep 2019 13:27

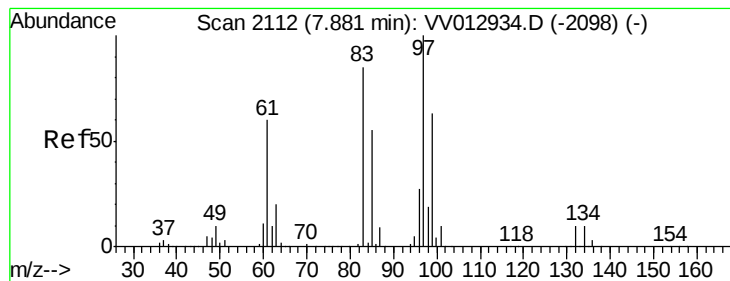
Tgt Ion: 75 Resp: 373200

Ion Ratio Lower Upper

75 100

77 31.6 22.0 40.8





#46

1,1,2-Trichloroethane

Concen: 23.847 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

Tgt Ion: 97 Resp: 242552

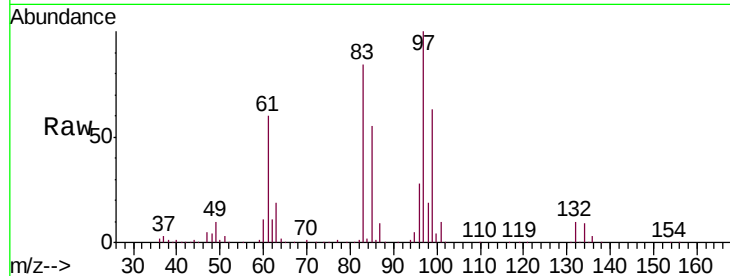
Ion Ratio Lower Upper

97 100

83 84.4 58.9 109.5

85 54.7 38.4 71.2

99 63.1 43.8 81.4

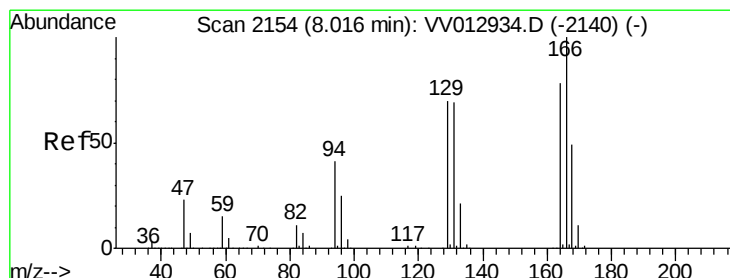
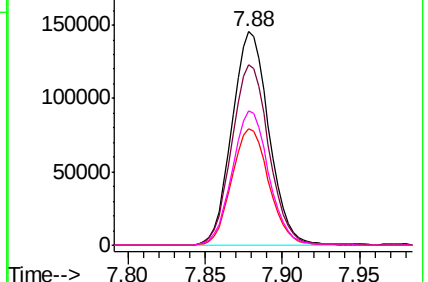
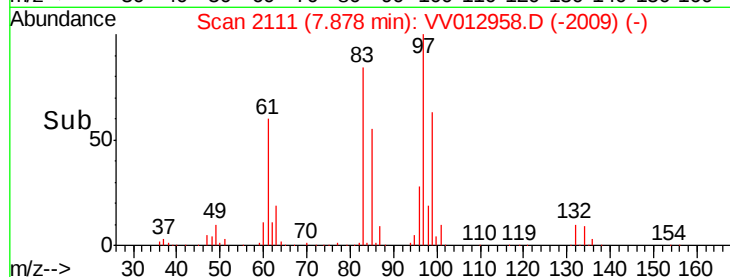


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 26.359 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Tgt Ion: 164 Resp: 274941

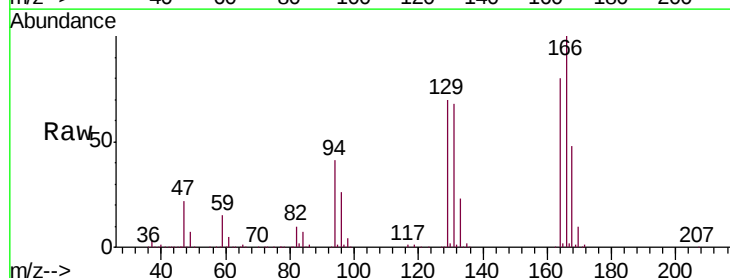
Ion Ratio Lower Upper

164 100

129 88.0 62.8 116.6

131 85.2 60.2 111.8

166 125.2 89.4 166.0

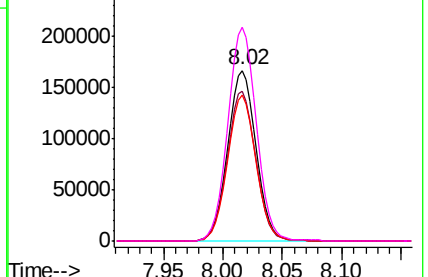
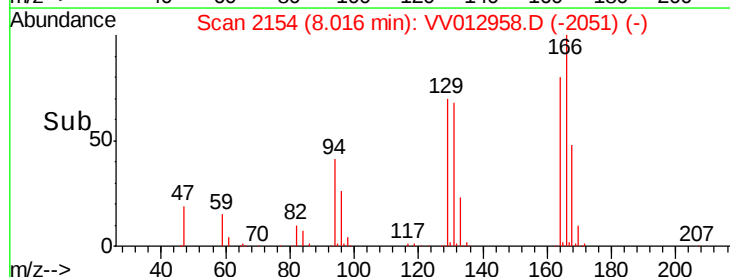


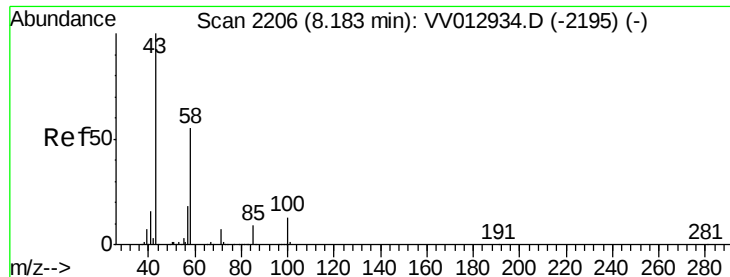
Abundance Ion 164.00 (163.70 to 164.70): V

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: 46.662 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

Tgt Ion: 43 Resp: 346217

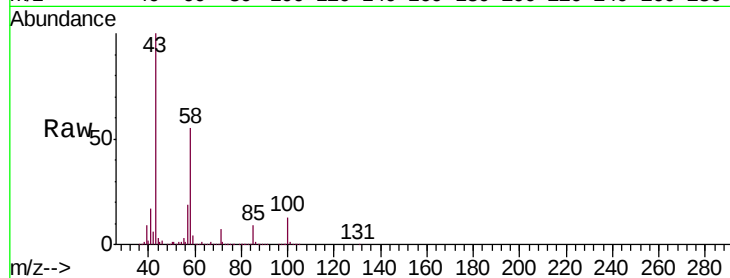
Ion Ratio Lower Upper

43 100

58 56.1 46.5 69.7

57 19.4 15.5 23.3

100 12.8 9.7 14.5

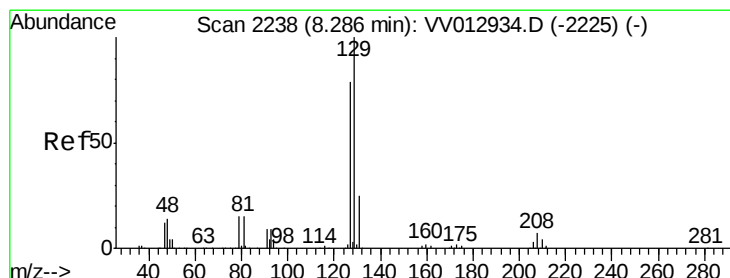
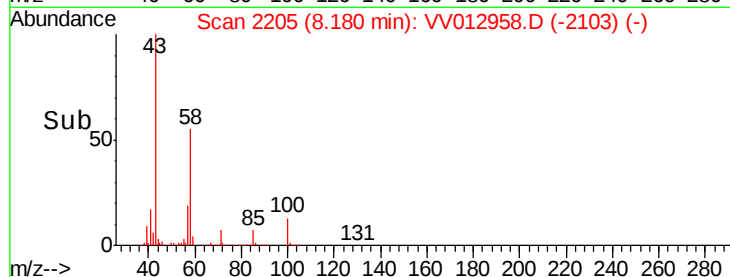
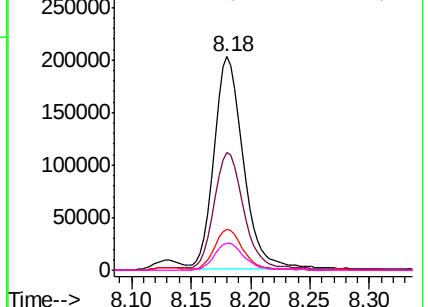


Abundance Ion 43.00 (42.70 to 43.70): VV0

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: 24.021 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV012958.D

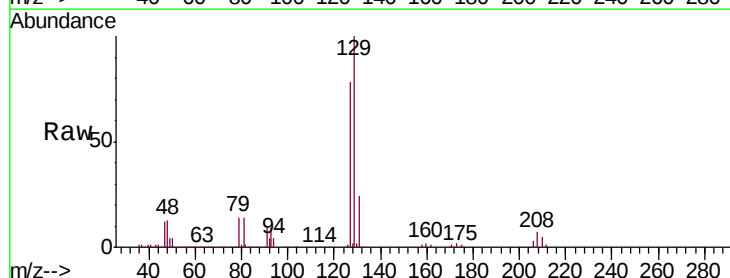
Acq: 24 Sep 2019 13:27

Tgt Ion: 129 Resp: 280813

Ion Ratio Lower Upper

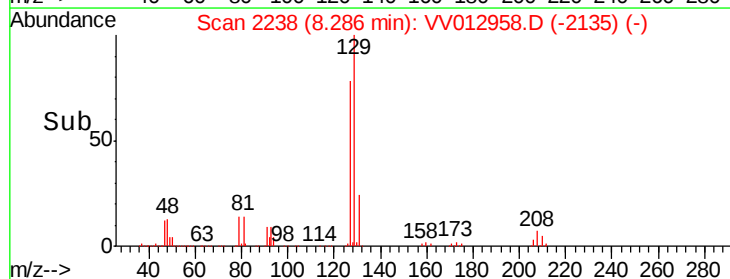
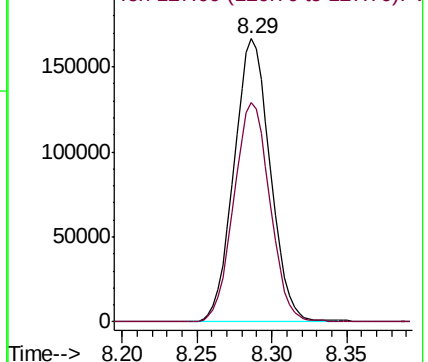
129 100

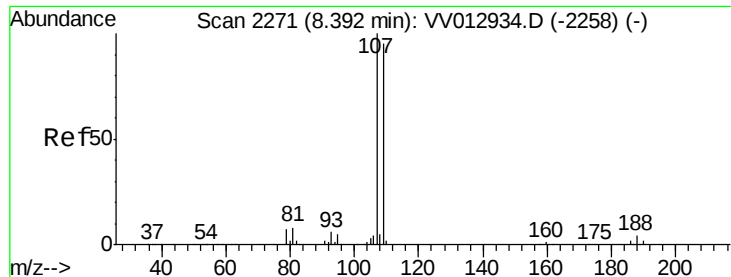
127 77.6 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 23.769 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

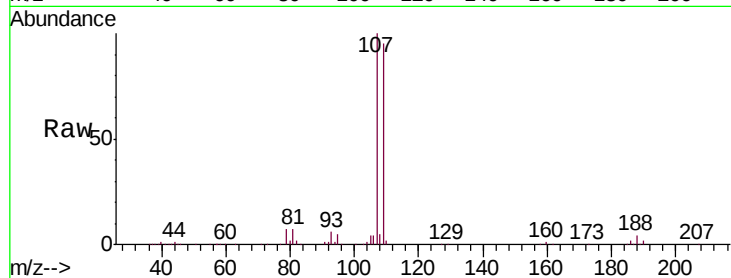
Tgt Ion:107 Resp: 236909

Ion Ratio Lower Upper

107 100

109 94.9 66.1 122.8

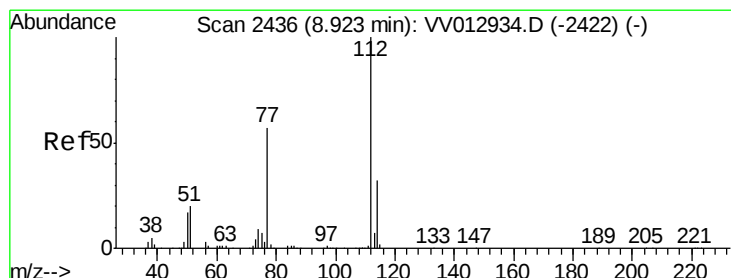
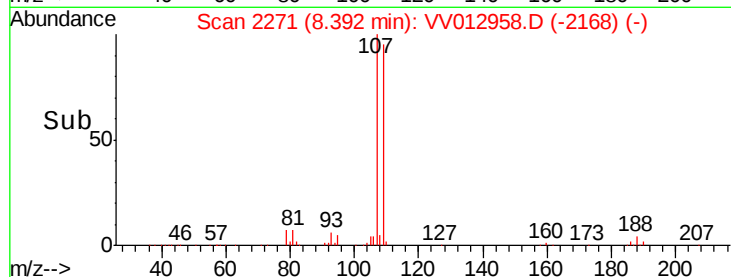
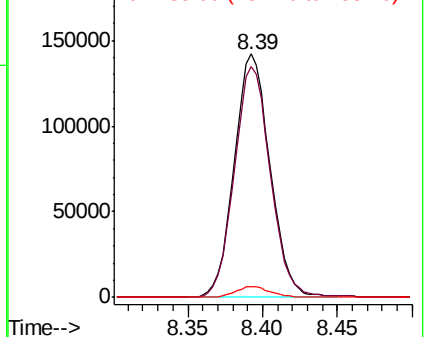
188 4.4 3.1 4.7



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: 24.646 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

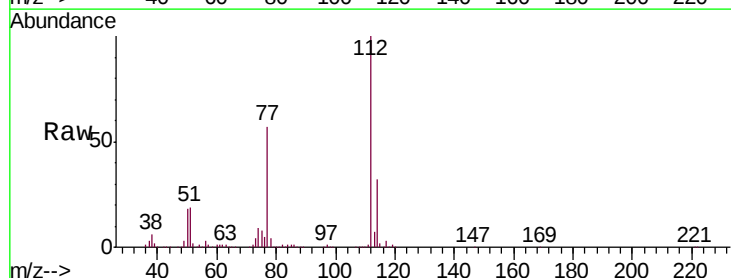
Tgt Ion:112 Resp: 826397

Ion Ratio Lower Upper

112 100

77 56.7 46.3 69.5

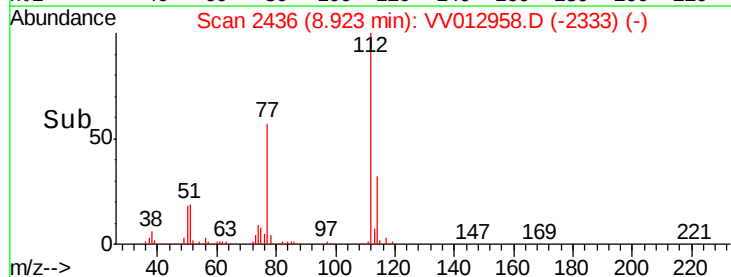
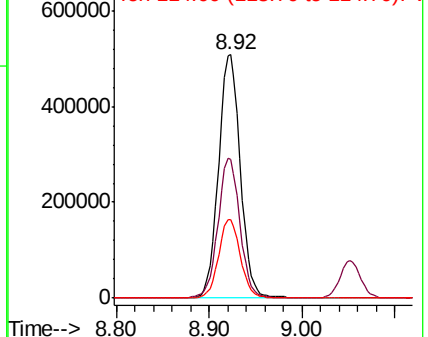
114 32.4 22.5 41.7

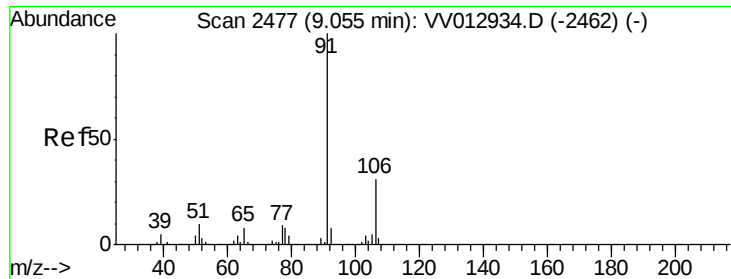


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

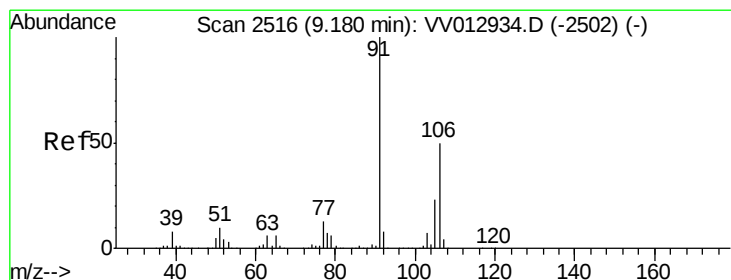
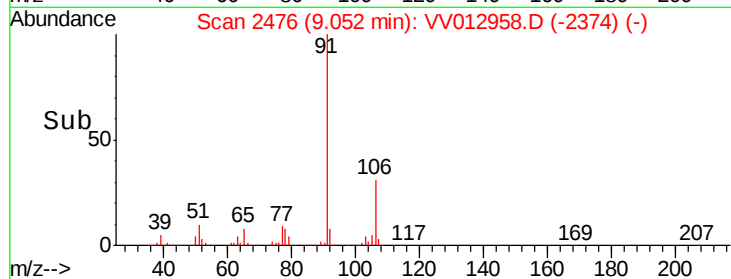
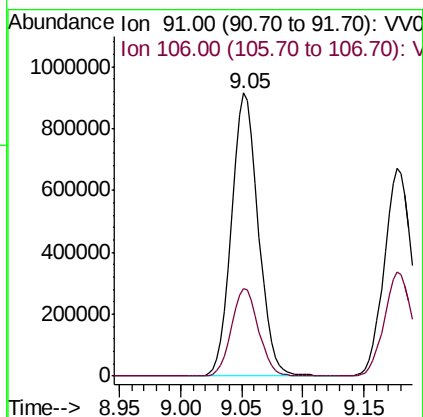
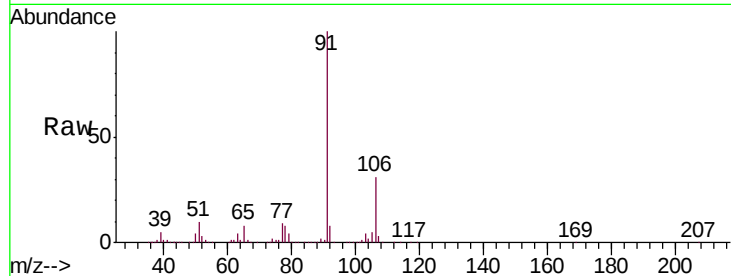




#53
Ethylbenzene
Concen: 26.244 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. -0.00 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

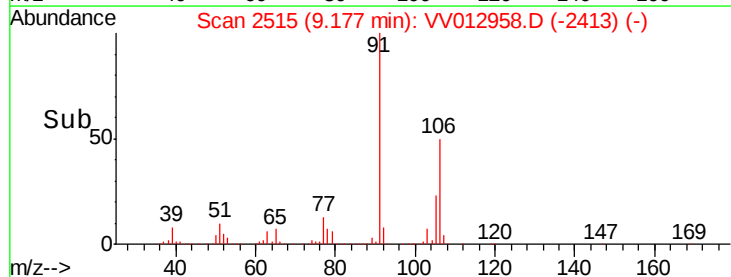
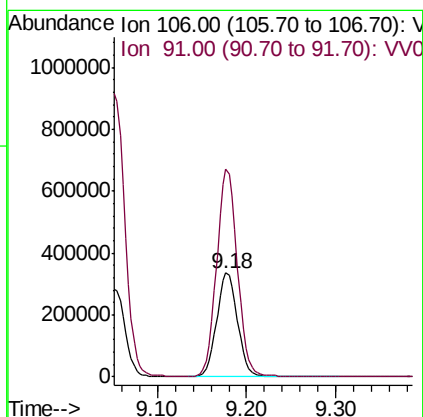
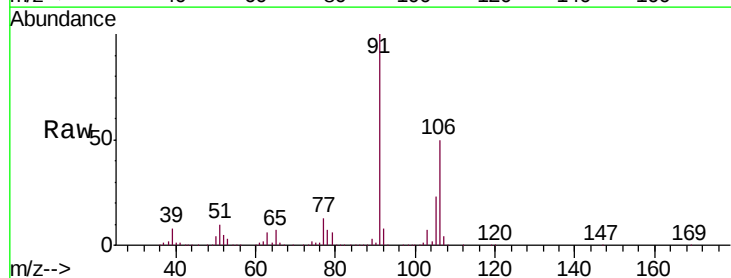
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

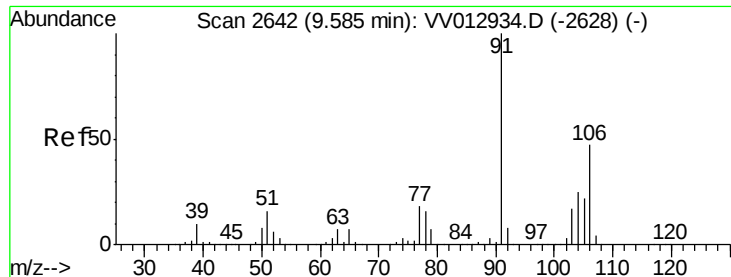
Tgt Ion: 91 Resp: 1404009
Ion Ratio Lower Upper
91 100
106 31.1 21.8 40.4



#54
m,p-Xylene
Concen: 26.678 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. -0.00 min
Lab File: VV012958.D
Acq: 24 Sep 2019 13:27

Tgt Ion: 106 Resp: 542592
Ion Ratio Lower Upper
106 100
91 200.1 140.1 260.3





#55

o-xylene

Concen: 26.727 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

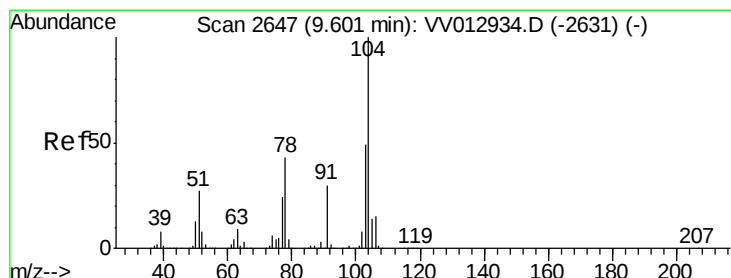
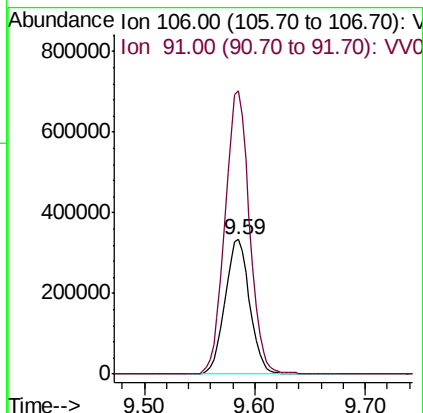
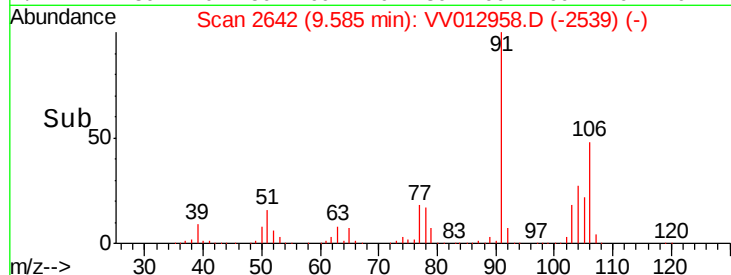
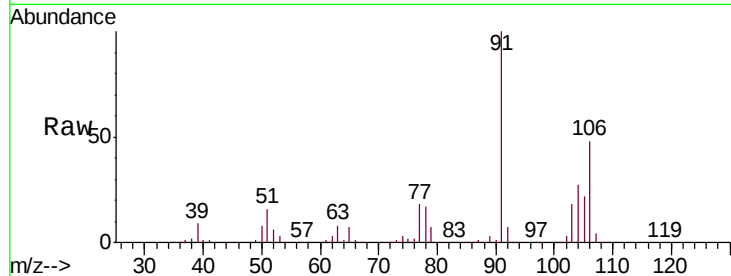
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Tgt Ion:106 Resp: 517938

Ion Ratio Lower Upper

106 100

91 210.3 148.8 276.4



#56

Styrene

Concen: 26.479 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012958.D

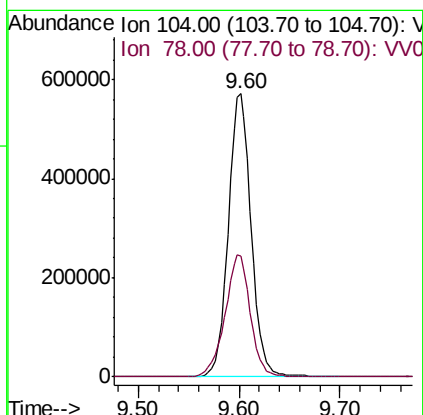
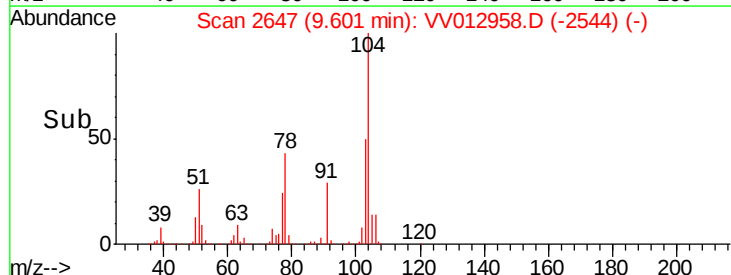
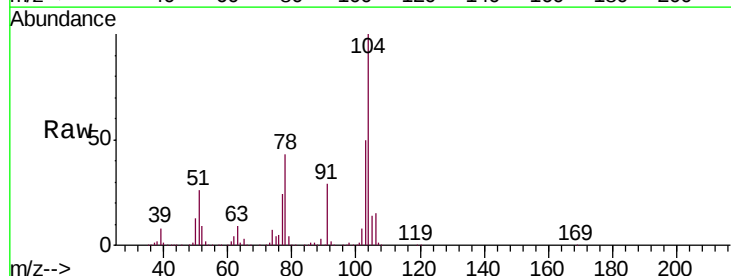
Acq: 24 Sep 2019 13:27

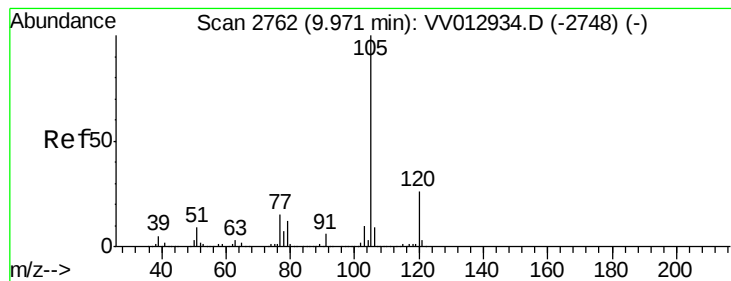
Tgt Ion:104 Resp: 902856

Ion Ratio Lower Upper

104 100

78 42.8 29.8 55.3





#57

Isopropylbenzene

Concen: 27.073 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

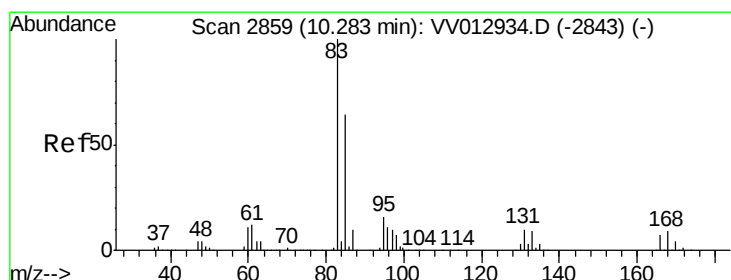
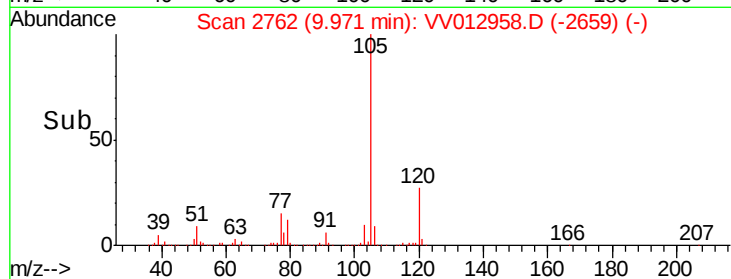
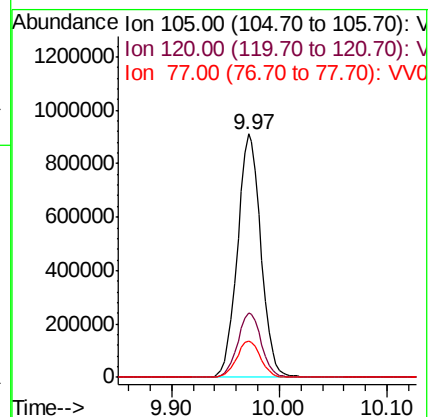
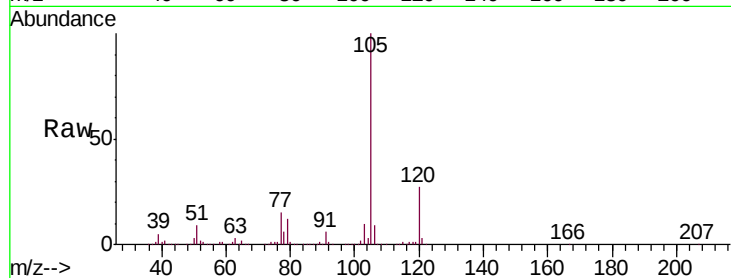
Tgt Ion: 105 Resp: 1378817

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

77 15.2 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 23.002 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

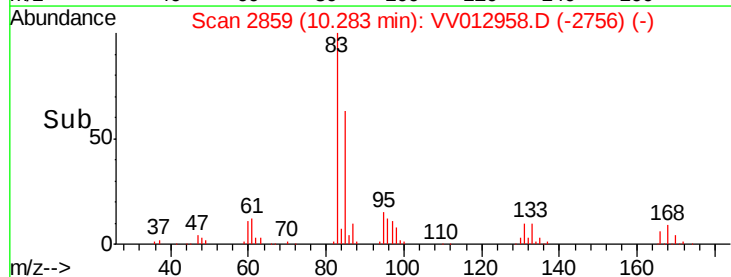
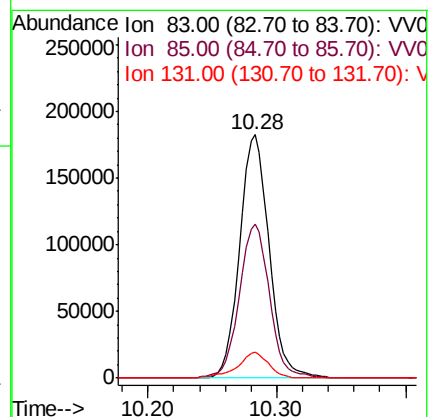
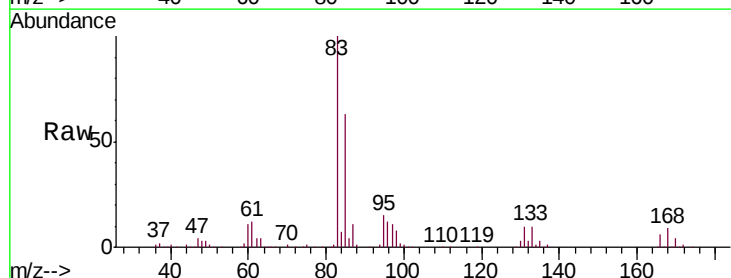
Tgt Ion: 83 Resp: 289395

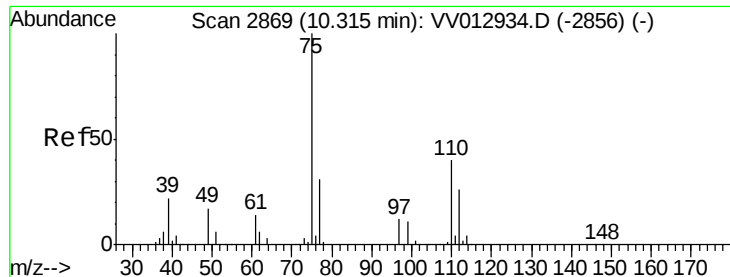
Ion Ratio Lower Upper

83 100

85 63.3 45.4 84.2

131 10.4 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 22.154 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

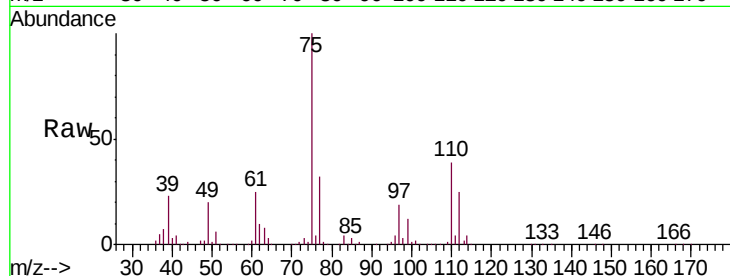
VSTD02569

Tgt Ion: 75 Resp: 230059

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV012934.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV012934.D (-2856) (-)

10.32

150000

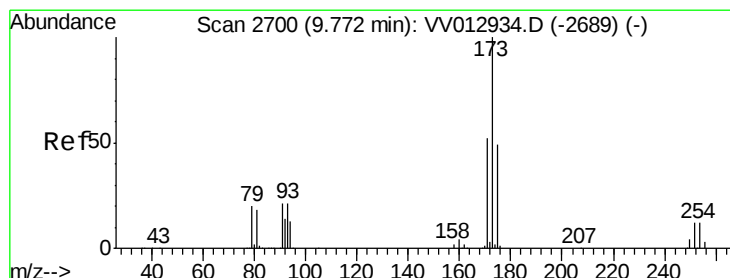
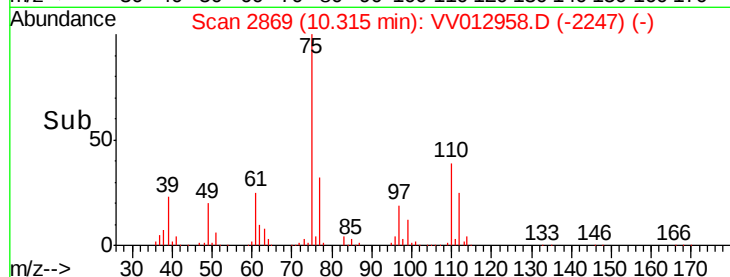
100000

50000

0

10.30 10.40

Time-->



#62

Bromoform

Concen: 22.890 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

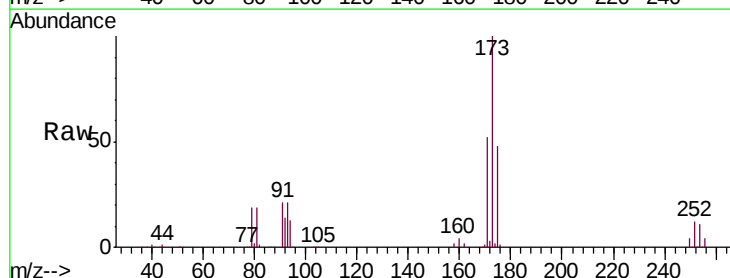
Tgt Ion: 173 Resp: 174121

Ion Ratio Lower Upper

173 100

175 48.3 39.5 59.3

254 11.9 9.1 13.7



Abundance Ion 173.00 (172.70 to 173.70): VV012934.D (-2689) (-)

Ion 175.00 (174.70 to 175.70): VV012934.D (-2689) (-)

Ion 254.00 (253.70 to 254.70): VV012934.D (-2689) (-)

9.77

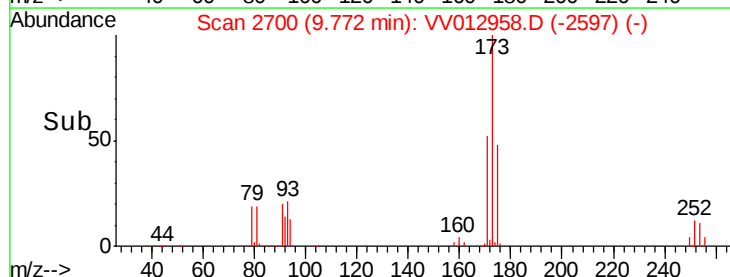
100000

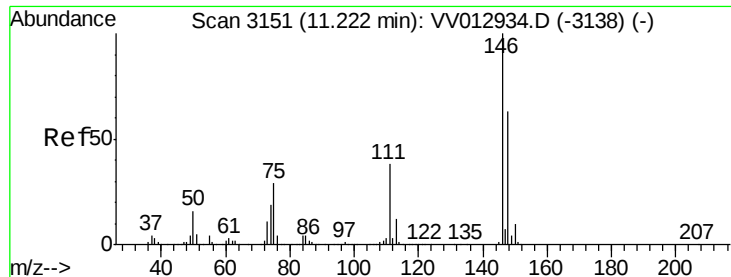
50000

0

9.70 9.75 9.80 9.85 9.90

Time-->

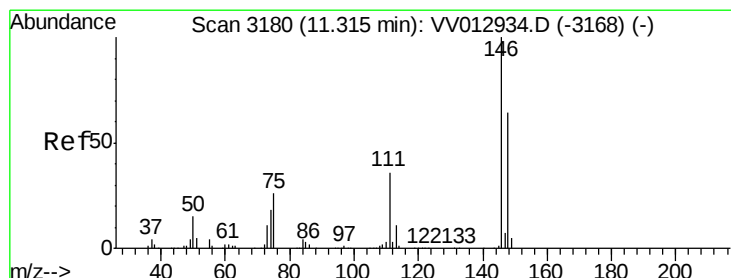
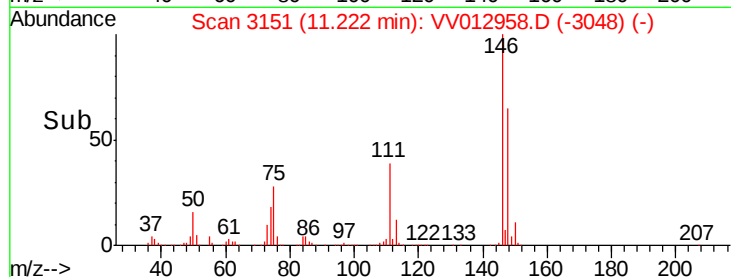
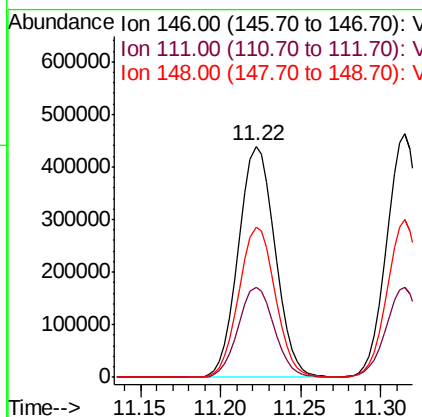
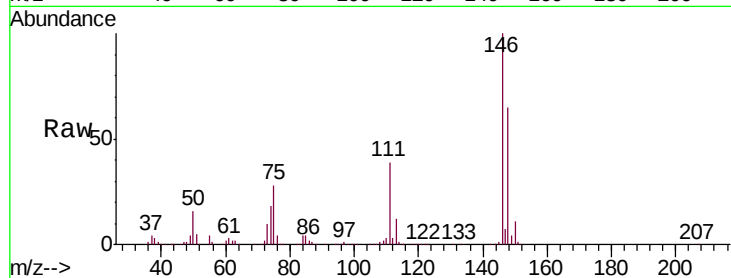




#63
 1,3-Dichlorobenzene
 Concen: 24.816 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

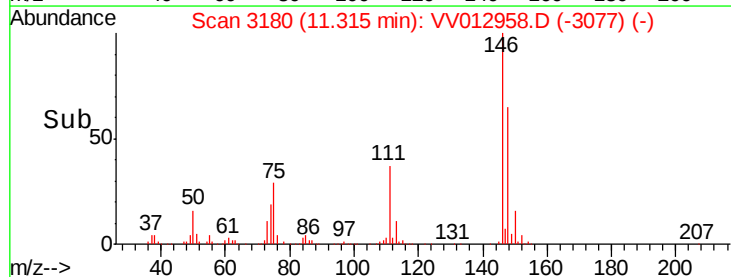
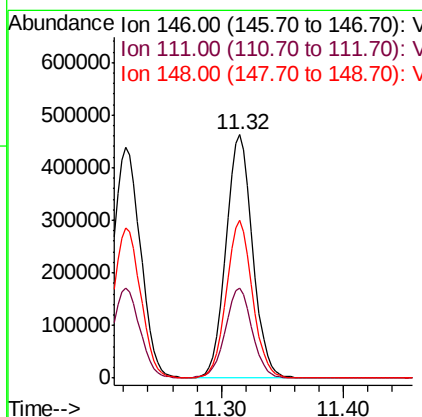
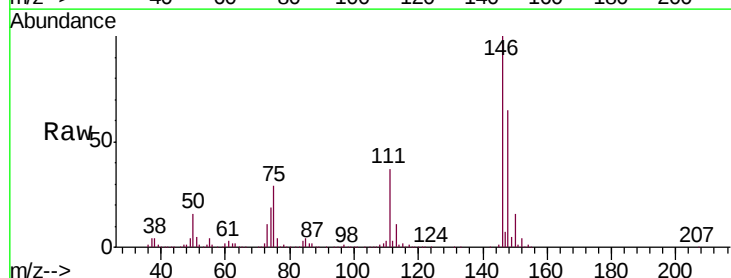
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

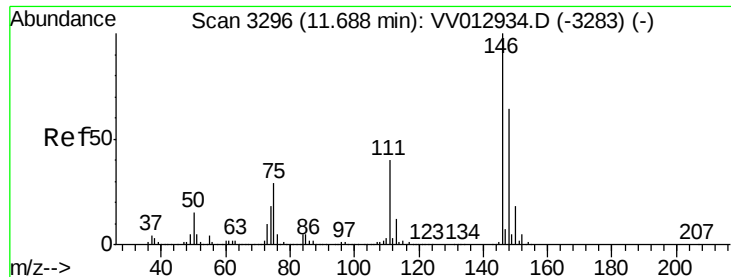
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	26.7	49.7
148	65.0	43.9	81.5



#64
 1,4-Dichlorobenzene
 Concen: 24.378 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	25.5	47.3
148	64.6	45.1	83.9

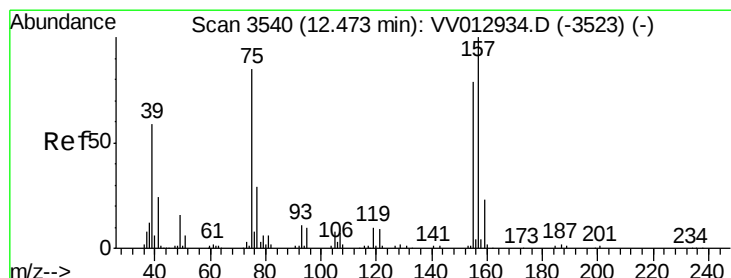
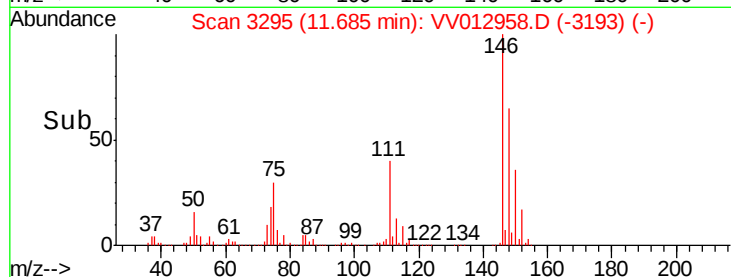
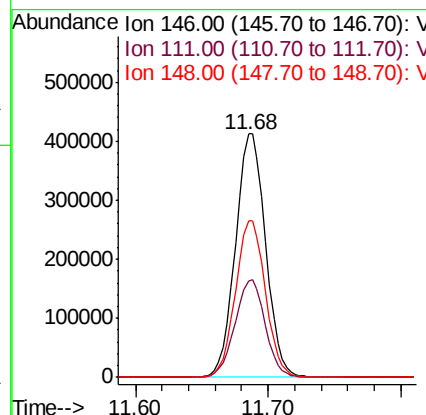
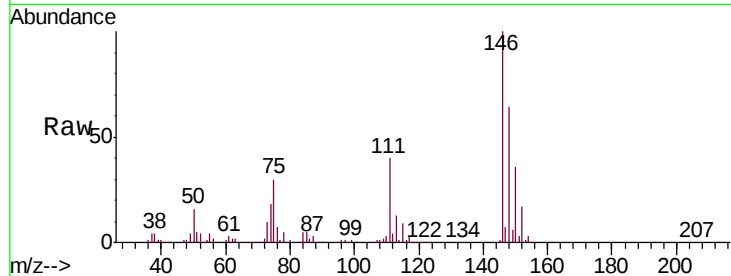




#65
 1,2-Dichlorobenzene
 Concen: 24.658 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

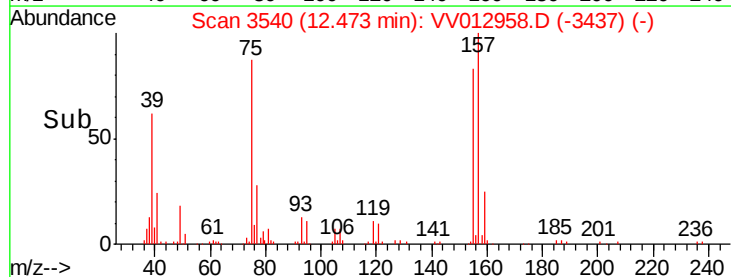
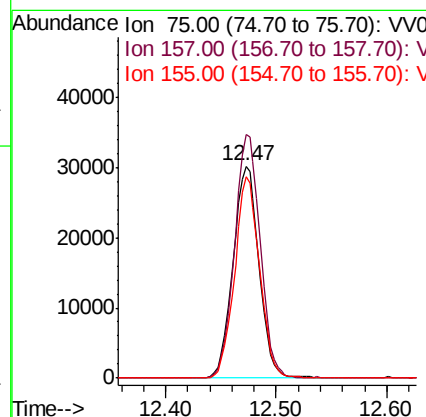
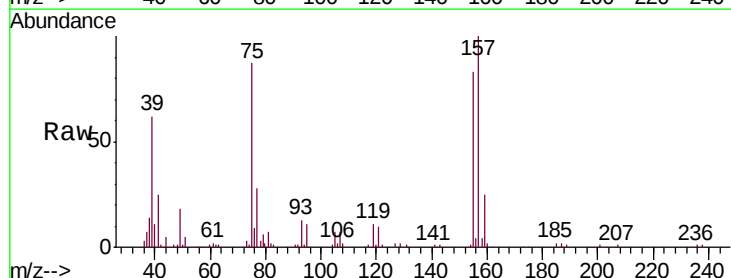
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02569

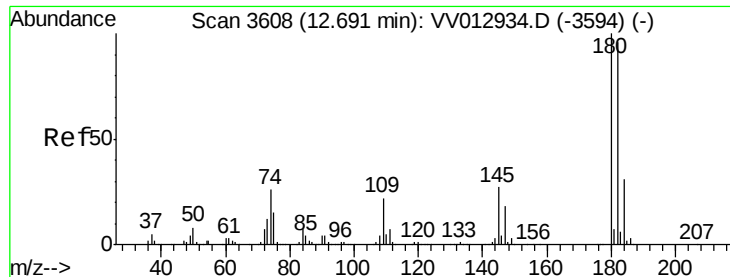
Tgt Ion: 146 Resp: 649006
 Ion Ratio Lower Upper
 146 100
 111 39.8 31.9 47.9
 148 64.4 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.073 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

Tgt Ion: 75 Resp: 49175
 Ion Ratio Lower Upper
 75 100
 157 115.1 91.7 137.5
 155 95.3 70.8 106.2

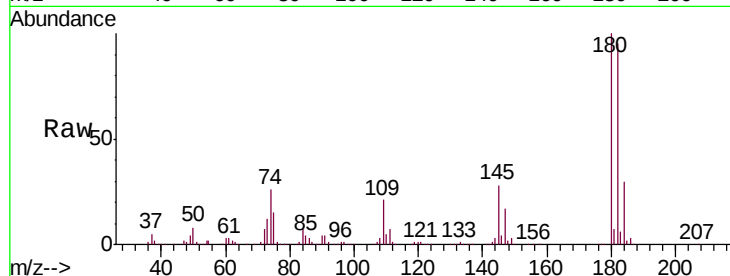




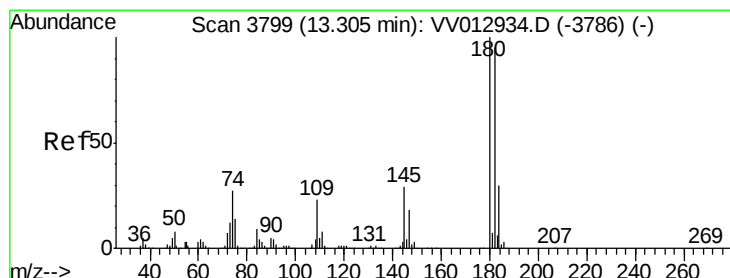
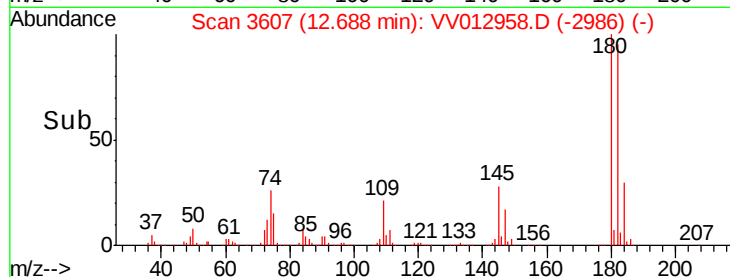
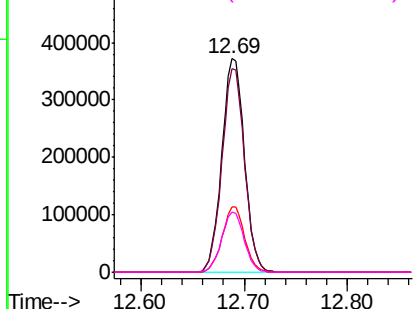
#67
 1,3,5-Trichlorobenzene
 Concen: 26.266 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion:	180	Resp:	566936
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.4	114.6
184	30.3	24.6	37.0
145	27.9	22.2	33.4

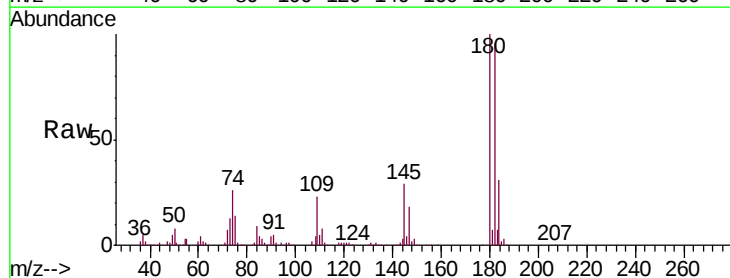


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

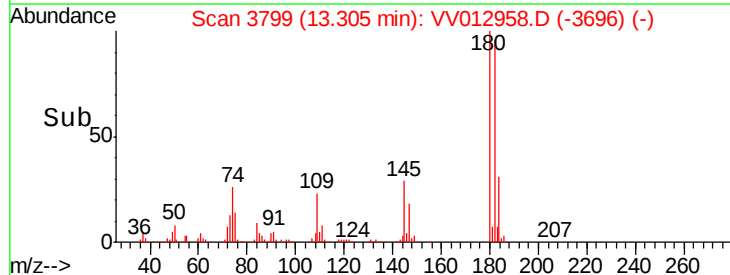
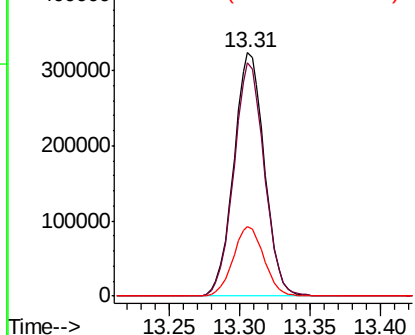


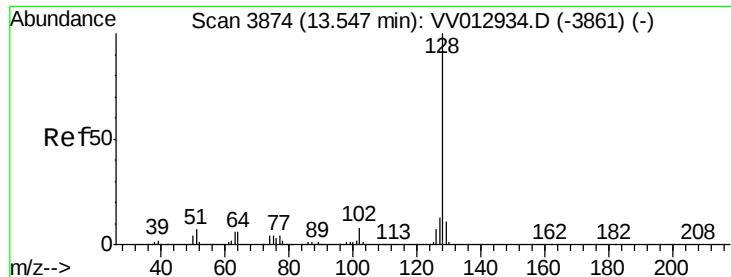
#68
 1,2,4-trichlorobenzene
 Concen: 26.125 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV012958.D
 Acq: 24 Sep 2019 13:27

Tgt Ion:	180	Resp:	493101
Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.8	115.2
145	28.5	22.6	34.0



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: 25.640 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

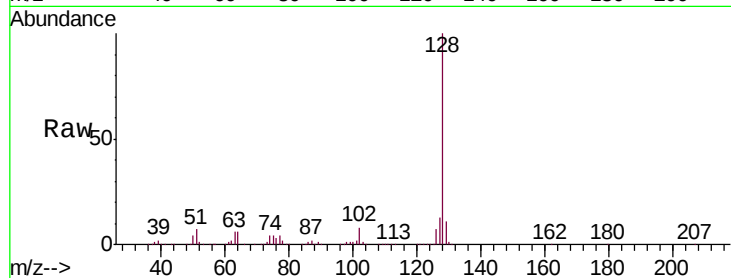
Tgt Ion:128 Resp: 973384

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

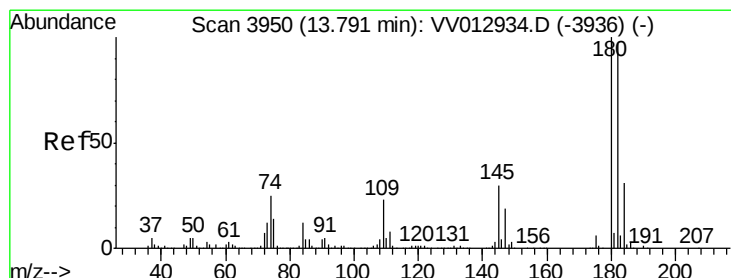
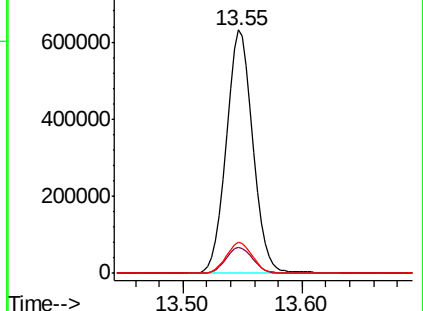
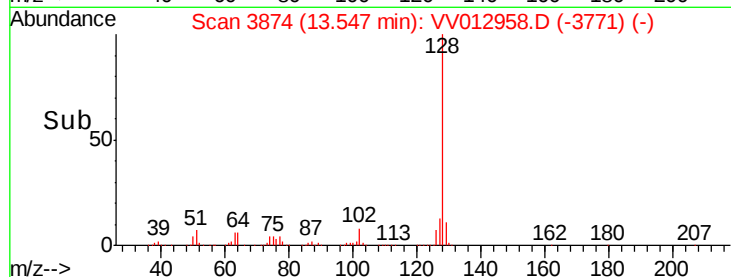
127 12.7 10.2 15.2



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: 26.119 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012958.D

Acq: 24 Sep 2019 13:27

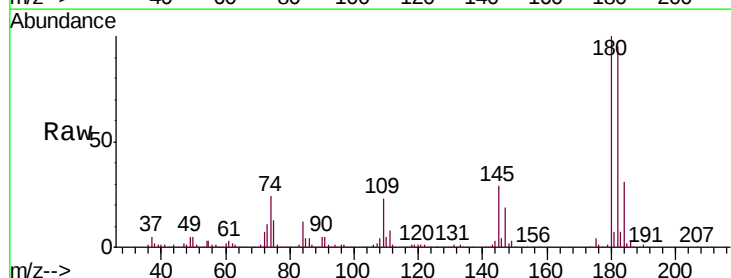
Tgt Ion:180 Resp: 473990

Ion Ratio Lower Upper

180 100

182 95.8 77.4 116.2

145 29.8 23.9 35.9



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

