

Data File : VU033693.D
Acq On : 09 Aug 2019 18:59
Operator : JC/SP
Sample : VSTD20036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Quant Time: Aug 10 03:54:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080919WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Aug 10 03:47:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	436567	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	421396	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	228687	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	665844	145.75	ug/L	0.00
7) Chloroethane-d5	1.66	69	975412	248.66	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.25	63	1125388	151.94	ug/L	0.00
21) 2-Butanone-d5	4.15	46	890880	272.21	ug/L	0.00
24) Chloroform-d	4.62	84	1006130	134.29	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	612314	127.95	ug/L	0.00
32) Benzene-d6	5.31	84	2073470	143.85	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	642261	140.41	ug/L	0.00
41) Toluene-d8	7.55	98	1958026	146.75	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	336102	150.05	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	729861	316.67	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	952774	133.42	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	800922	138.74	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	622657	162.755	ug/L	99
3) Chloromethane	1.32	50	641452	154.282	ug/L	100
5) Vinyl chloride	1.39	62	726030	161.533	ug/L	98
6) Bromomethane	1.62	94	731662	238.952	ug/L	100
8) Chloroethane	1.68	64	847648	293.451	ug/L	99
9) Trichlorofluoromethane	1.87	101	976575	163.394	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	517144	167.579	ug/L	99
12) 1,1-Dichloroethene	2.27	96	509829	172.016	ug/L	97
13) Acetone	2.31	43	676579	289.828	ug/L	98
14) Carbon disulfide	2.46	76	1427435	162.494	ug/L	100
15) Methyl Acetate	2.60	43	664491	174.607	ug/L	99
16) Methylene chloride	2.68	84	579395	164.491	ug/L	100
17) trans-1,2-Dichloroethene	2.96	96	540803	174.533	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	1806283	184.474	ug/L	100
19) 1,1-Dichloroethane	3.42	63	1015533	169.007	ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	633452	181.100	ug/L	99
22) 2-Butanone	4.24	43	1039533	353.064	ug/L	99
23) Bromochloromethane	4.52	128	329320	177.885	ug/L	98
25) Chloroform	4.65	83	1053697	167.911	ug/L	98
27) 1,2-Dichloroethane	5.38	62	815340	167.148	ug/L	100
29) Cyclohexane	4.97	56	892052	189.541	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	904179	177.634	ug/L	99
31) Carbon tetrachloride	5.11	117	821187	182.917	ug/L	98
33) Benzene	5.36	78	2268963	177.234	ug/L	100
34) Trichloroethene	6.16	95	606162	183.624	ug/L	99
35) Methylcyclohexane	6.40	83	966791	192.173	ug/L	100
37) 1,2-Dichloropropane	6.41	63	617828	178.145	ug/L	100
38) Bromodichloromethane	6.73	83	810897	180.810	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	1043404	202.932	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	1949892	387.376	ug/L	99

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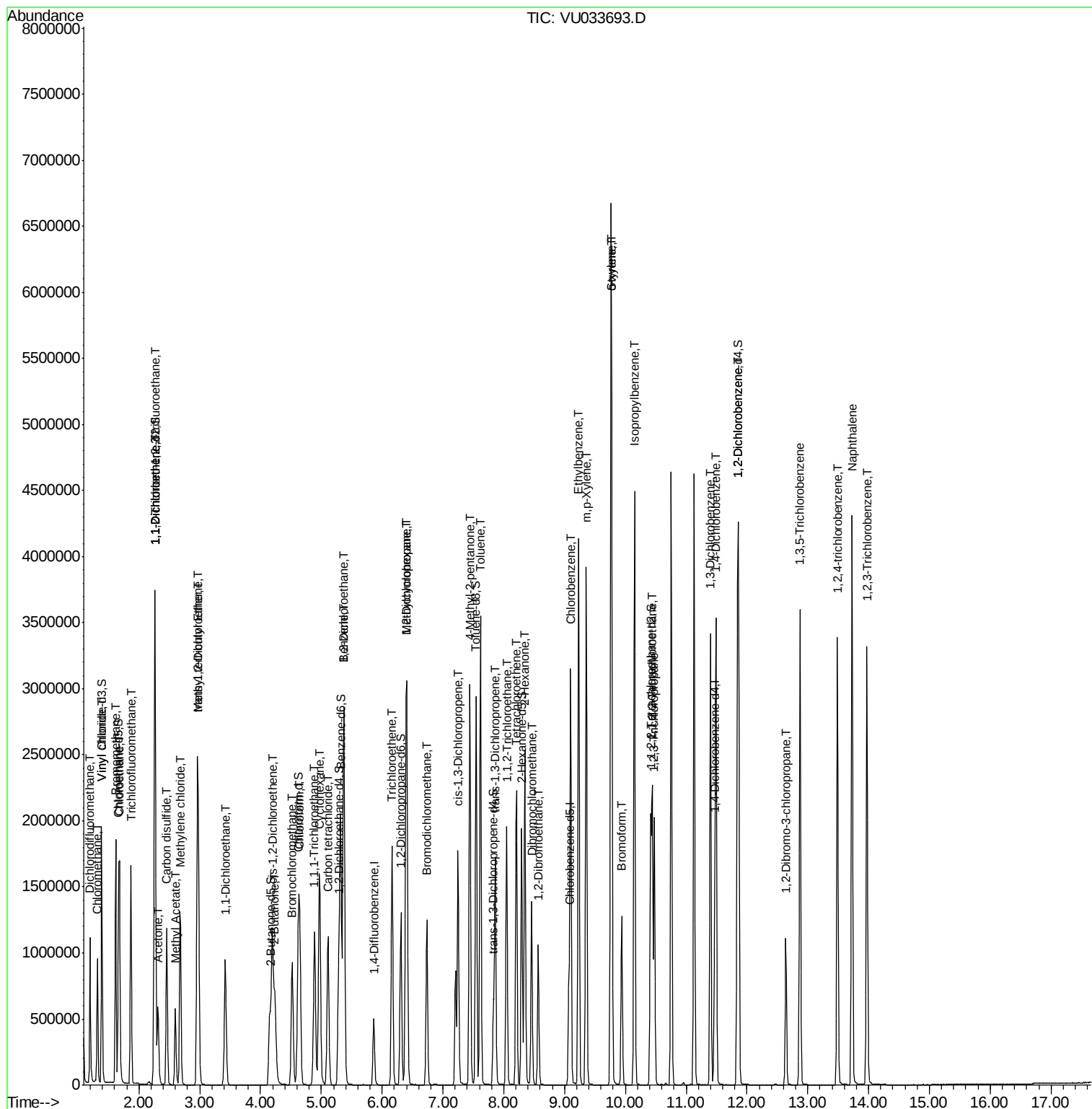
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	2533366	184.141	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	932275	191.906	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	597815	180.277	ug/L	99
46) Tetrachloroethene	8.21	164	508268	188.676	ug/L	97
48) 2-Hexanone	8.35	43	1549989	375.937	ug/L	100
49) Dibromochloromethane	8.46	129	703035	186.243	ug/L	97
50) 1,2-Dibromoethane	8.57	107	676008	187.660	ug/L	100
51) Chlorobenzene	9.10	112	1645209	181.841	ug/L	100
52) Ethylbenzene	9.23	91	2843426	191.847	ug/L	99
53) m,p-Xylene	9.36	106	1087958	193.912	ug/L	99
54) o-xylene	9.76	106	1094797	196.575	ug/L	100
55) Styrene	9.77	104	1929667	204.067	ug/L	99
56) Isopropylbenzene	10.15	105	2882777	200.507	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	1066193	175.123	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	828634	175.647	ug/L	98
61) Bromoform	9.94	173	578391	194.612	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	1376862	184.086	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	1386345	179.217	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	1381079	182.796	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	267035	189.305	ug/L	94
67) 1,3,5-Trichlorobenzene	12.87	180	1118978	195.859	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	1058603	219.888	ug/L	98
69) Naphthalene	13.73	128	3288241	233.250	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	1047961	210.030	ug/L	99

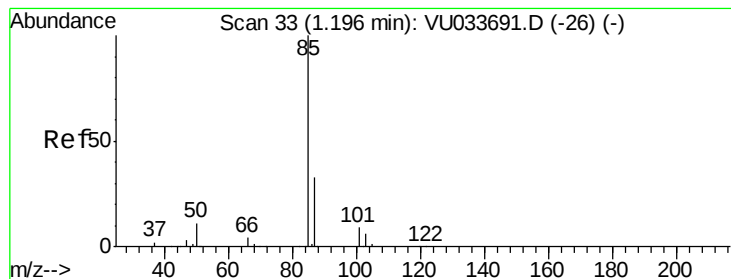
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 162.755 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

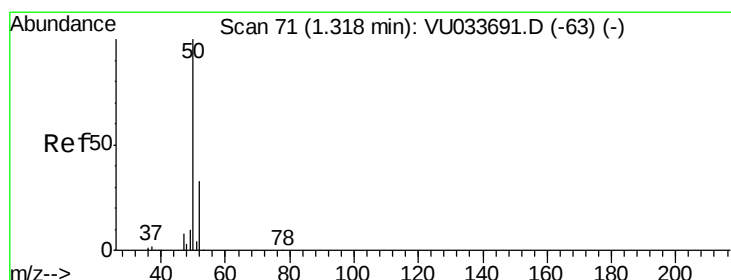
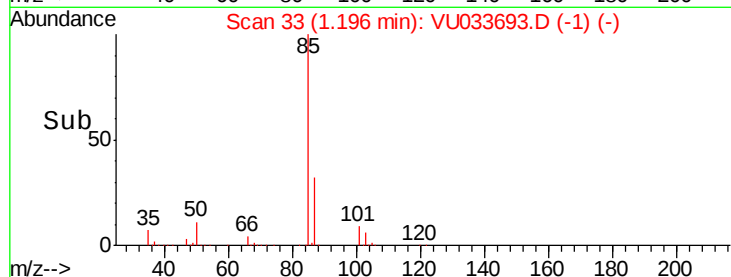
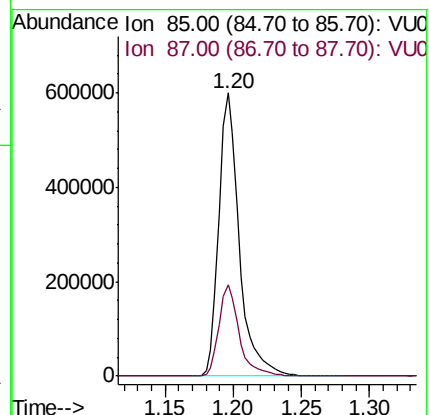
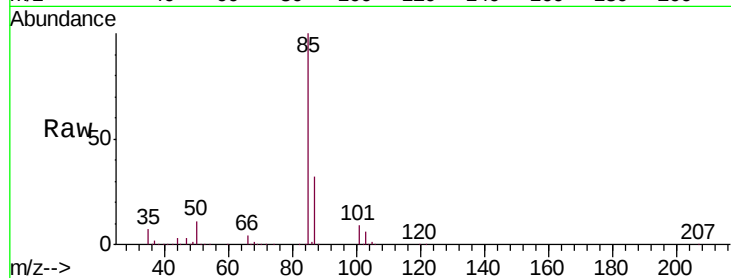
VSTD20036

Tgt Ion: 85 Resp: 622657

Ion Ratio Lower Upper

85 100

87 32.1 26.2 39.2



#3

Chloromethane

Concen: 154.282 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033693.D

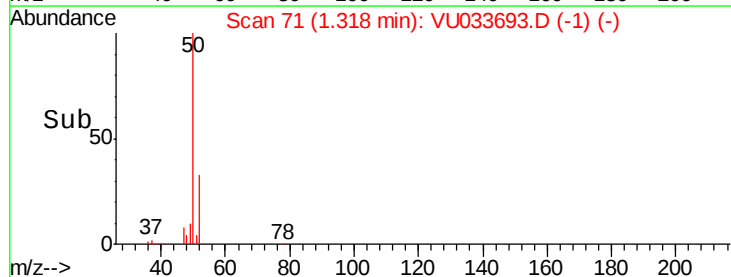
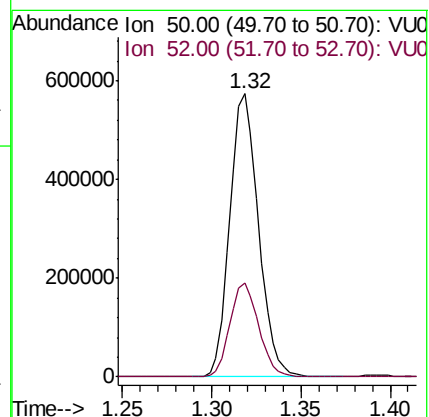
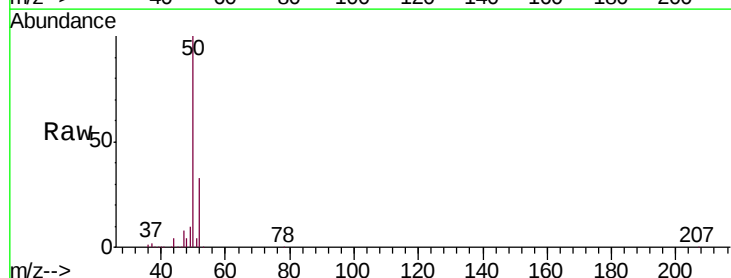
Acq: 09 Aug 2019 18:59

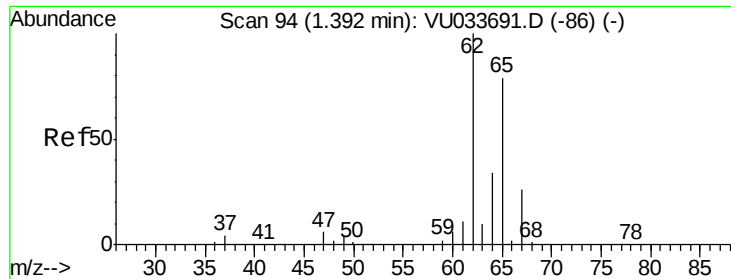
Tgt Ion: 50 Resp: 641452

Ion Ratio Lower Upper

50 100

52 33.2 23.0 42.8





#5

Vinyl chloride

Concen: 161.533 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

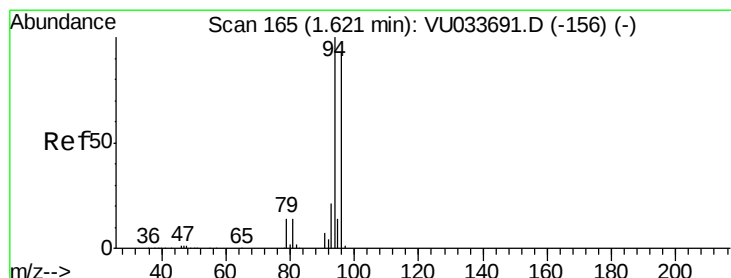
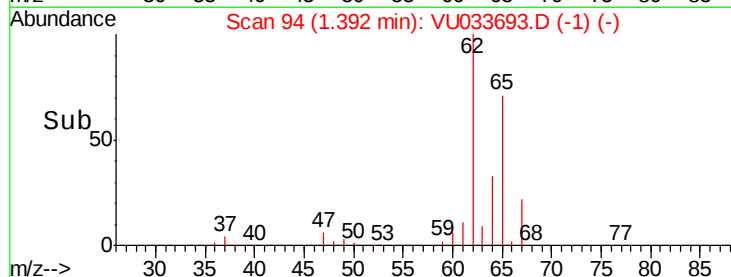
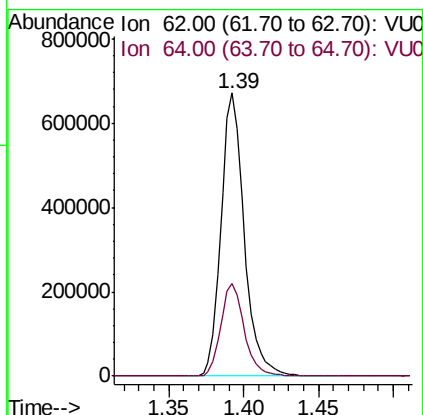
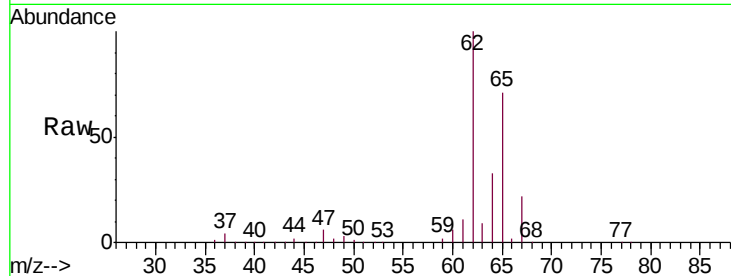
VSTD20036

Tgt Ion: 62 Resp: 726030

Ion Ratio Lower Upper

62 100

64 32.9 23.7 43.9



#6

Bromomethane

Concen: 238.952 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033693.D

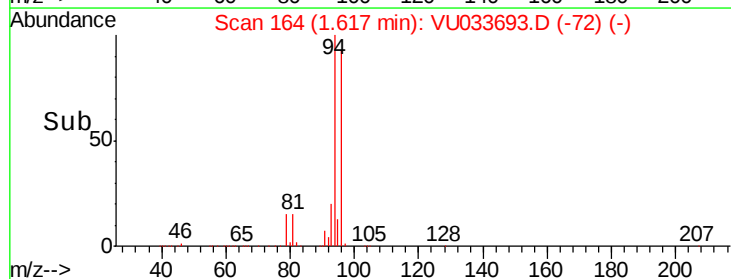
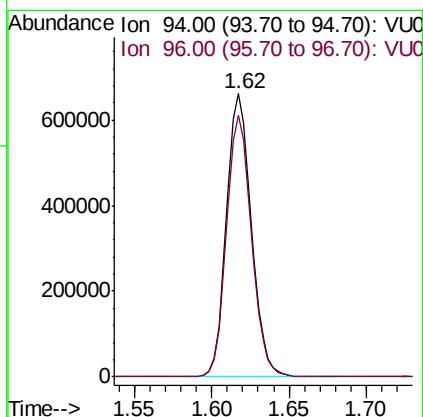
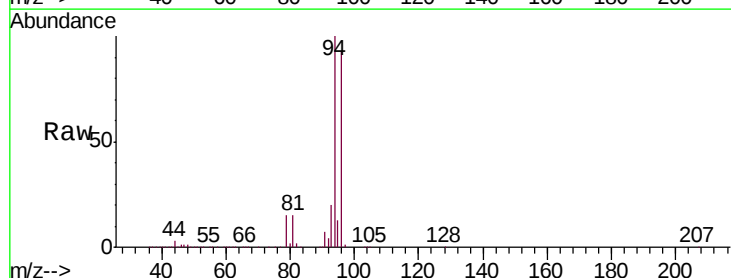
Acq: 09 Aug 2019 18:59

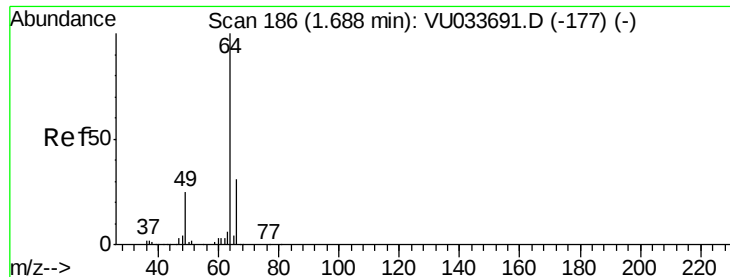
Tgt Ion: 94 Resp: 731662

Ion Ratio Lower Upper

94 100

96 92.6 65.0 120.6





#8

Chloroethane

Concen: 293.451 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

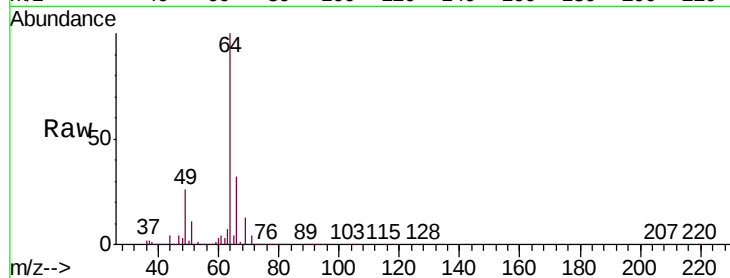
VSTD20036

Tgt Ion: 64 Resp: 847648

Ion Ratio Lower Upper

64 100

66 32.2 22.0 41.0



Abundance Ion 64.00 (63.70 to 64.70): VU033693.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU033693.D (-177) (-)

1.68

800000

600000

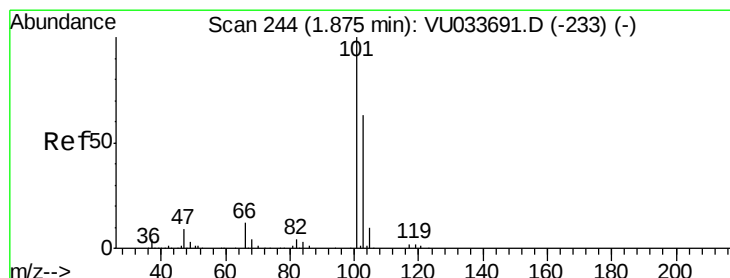
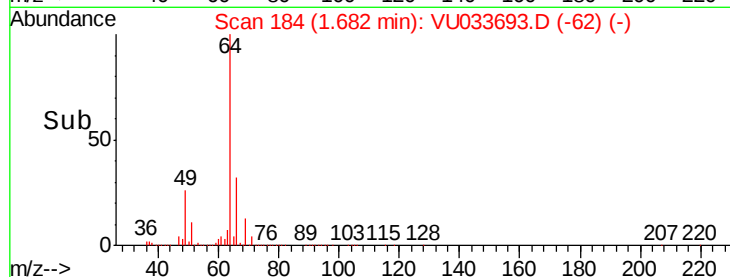
400000

200000

0

1.60 1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 163.394 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU033693.D

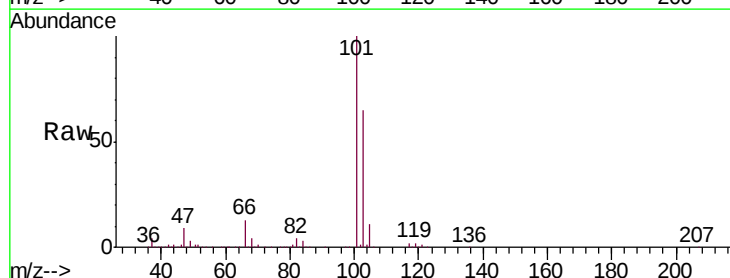
Acq: 09 Aug 2019 18:59

Tgt Ion: 101 Resp: 976575

Ion Ratio Lower Upper

101 100

103 64.6 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU033693.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033693.D (-233) (-)

1.87

800000

600000

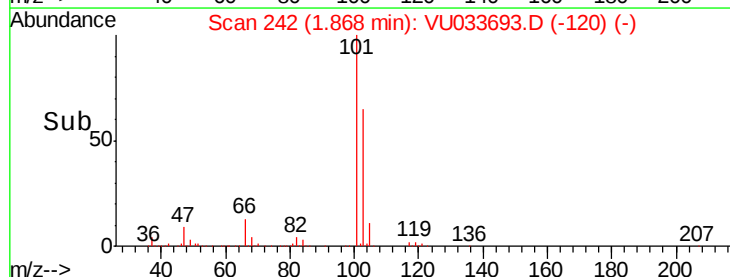
400000

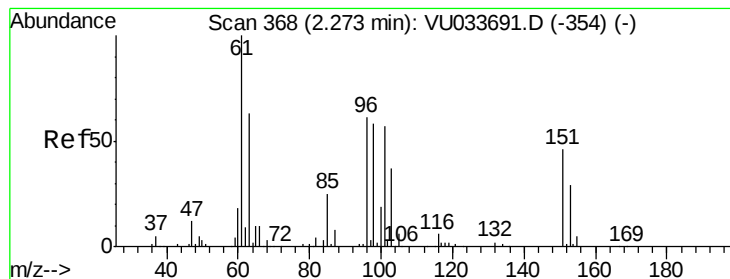
200000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 167.579 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

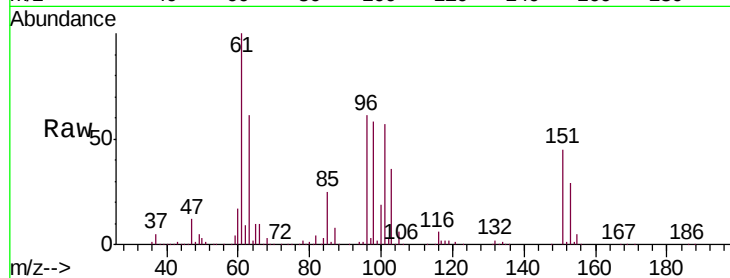
Tgt Ion: 101 Resp: 517144

Ion Ratio Lower Upper

101 100

85 43.6 34.5 51.7

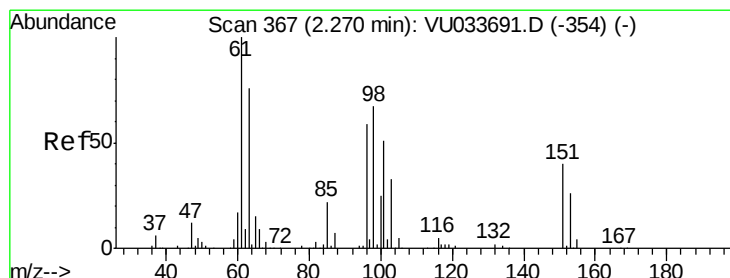
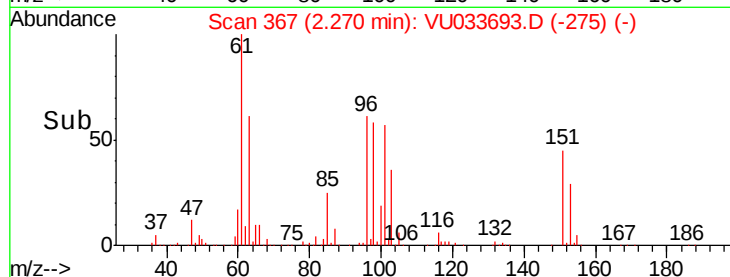
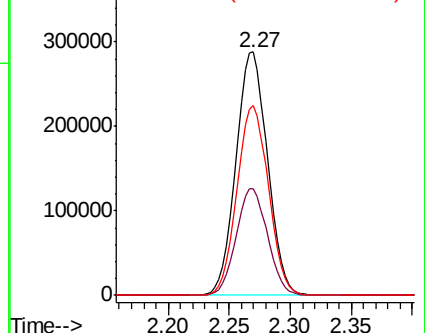
151 77.8 63.0 94.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 172.016 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

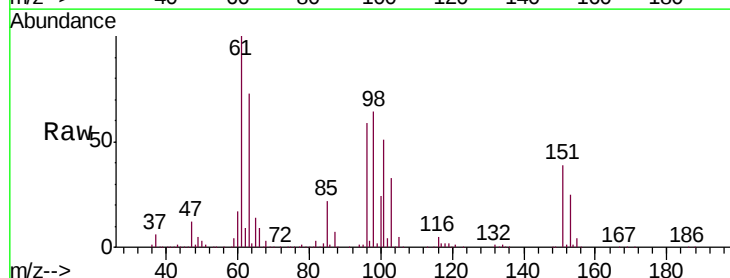
Tgt Ion: 96 Resp: 509829

Ion Ratio Lower Upper

96 100

61 168.3 118.2 219.6

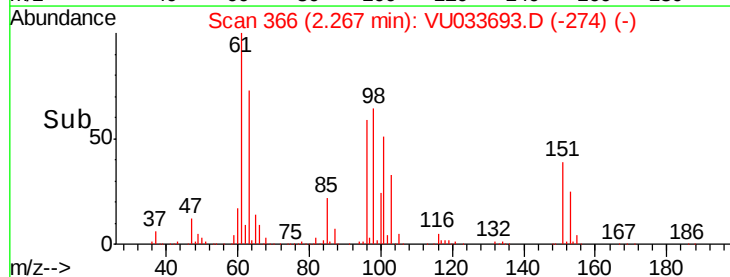
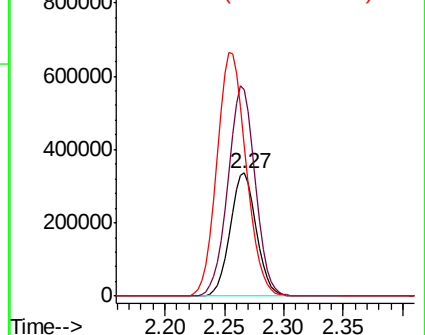
63 122.6 90.7 168.5

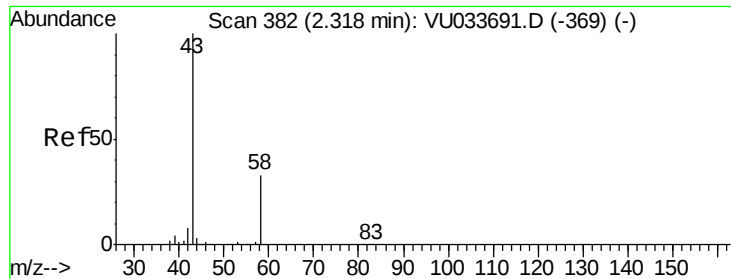


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 289.828 ug/L

RT: 2.31 min Scan# 381

Delta R.T. -0.00 min

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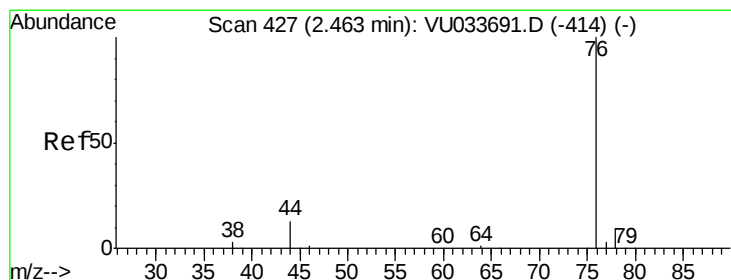
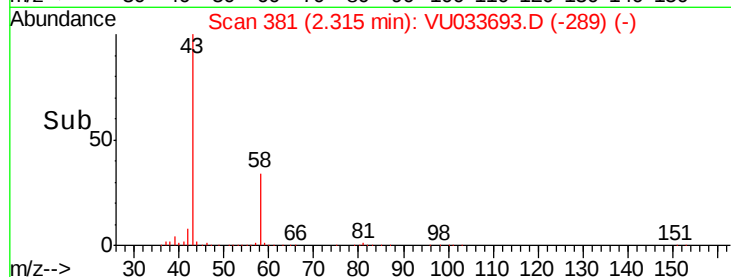
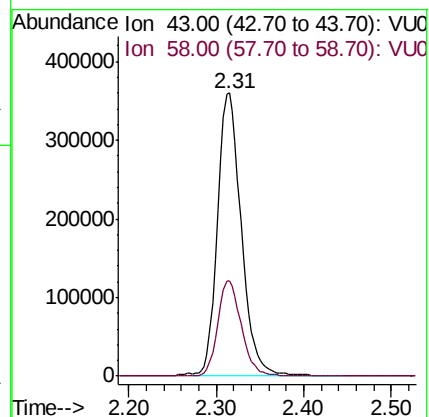
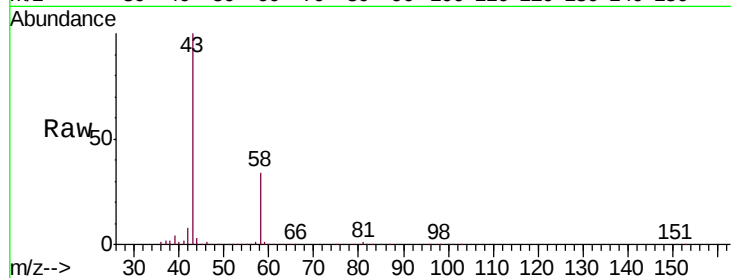
VSTD20036

Tgt Ion: 43 Resp: 676579

Ion Ratio Lower Upper

43 100

58 33.8 0.0 65.6



#14

Carbon disulfide

Concen: 162.494 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VU033693.D

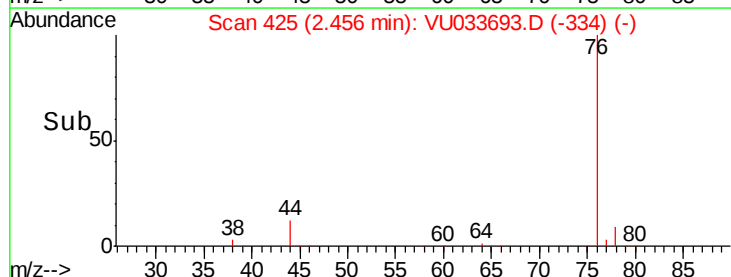
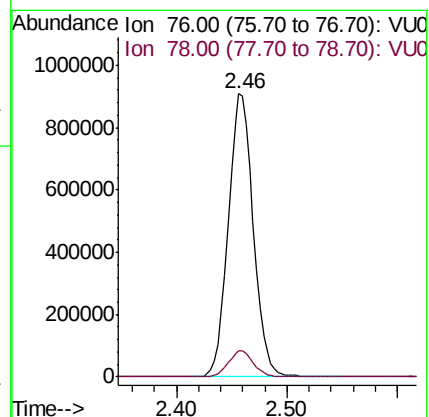
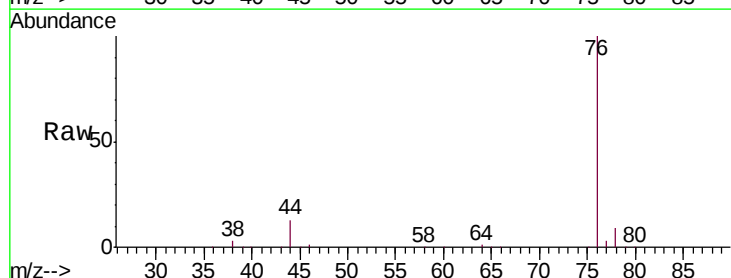
Acq: 09 Aug 2019 18:59

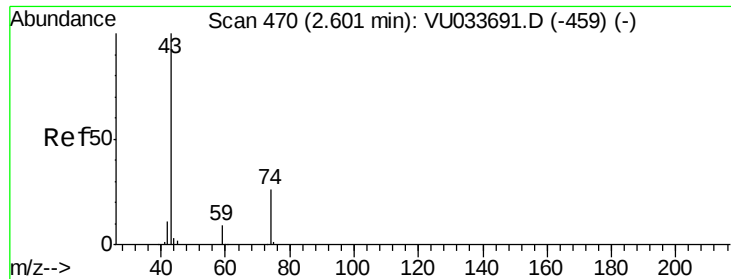
Tgt Ion: 76 Resp: 1427435

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7

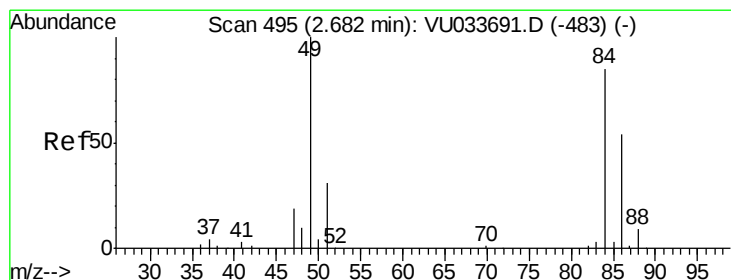
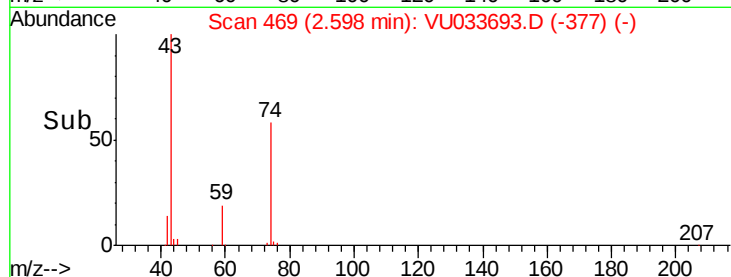
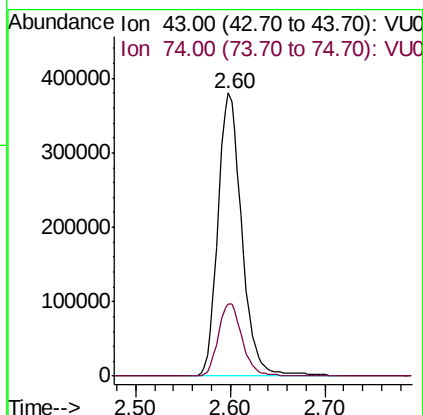
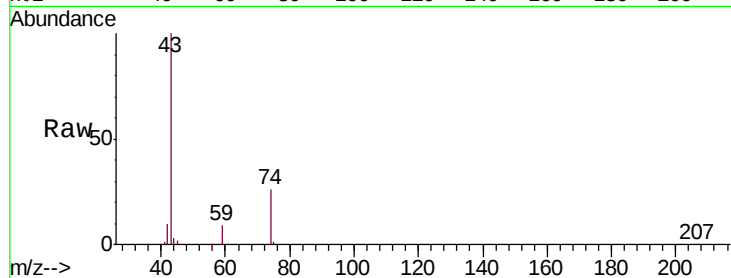




#15
Methyl Acetate
Concen: 174.607 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU033693.D
Acq: 09 Aug 2019 18:59

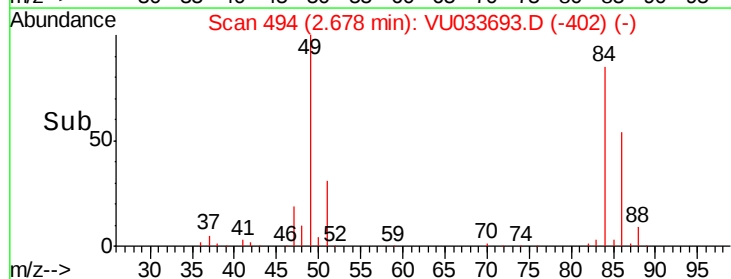
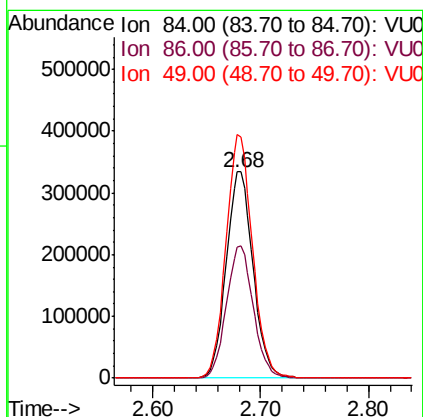
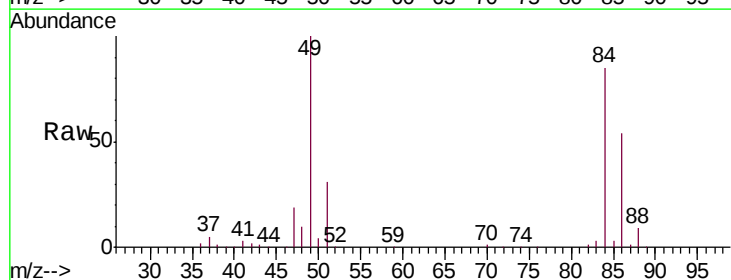
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

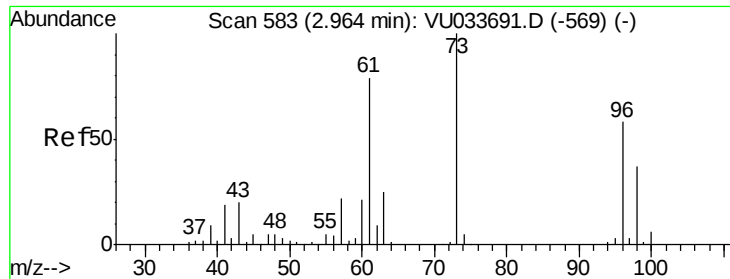
Tgt Ion: 43 Resp: 664491
Ion Ratio Lower Upper
43 100
74 25.7 20.8 31.2



#16
Methylene chloride
Concen: 164.491 ug/L
RT: 2.68 min Scan# 494
Delta R.T. -0.00 min
Lab File: VU033693.D
Acq: 09 Aug 2019 18:59

Tgt Ion: 84 Resp: 579395
Ion Ratio Lower Upper
84 100
86 63.6 44.3 82.3
49 118.0 82.3 152.9





#17

trans-1,2-Dichloroethene

Concen: 174.533 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

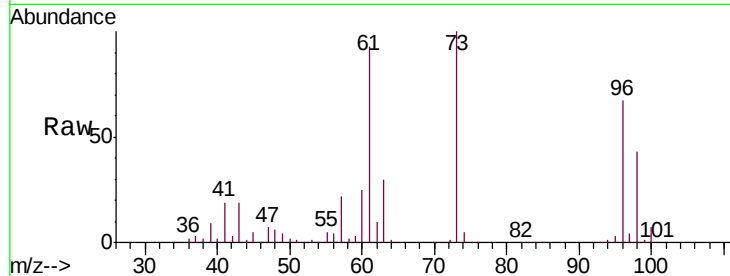
Tgt Ion: 96 Resp: 540803

Ion Ratio Lower Upper

96 100

61 138.7 95.6 177.6

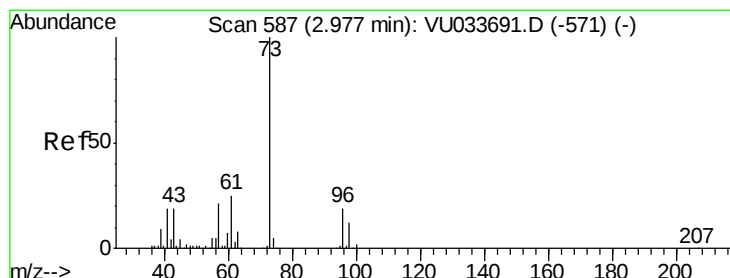
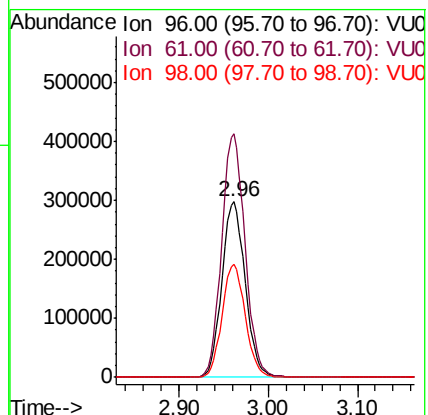
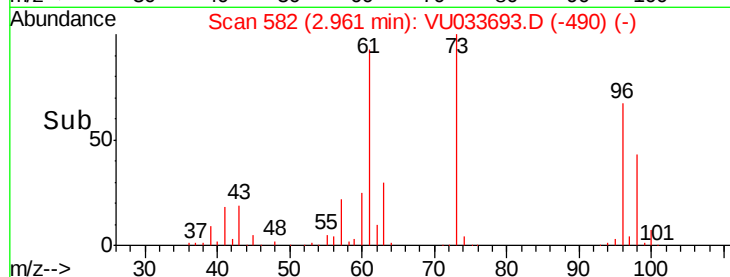
98 64.3 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033693.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033693.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033693.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 184.474 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

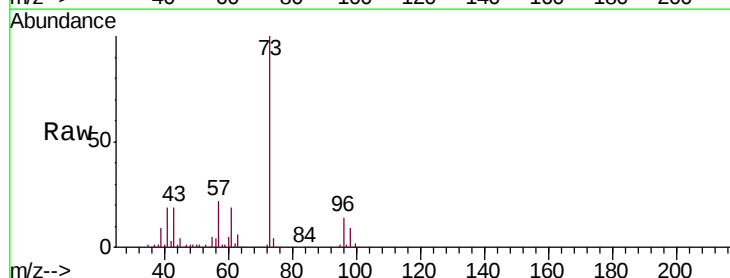
Tgt Ion: 73 Resp: 1806283

Ion Ratio Lower Upper

73 100

43 18.6 15.1 22.7

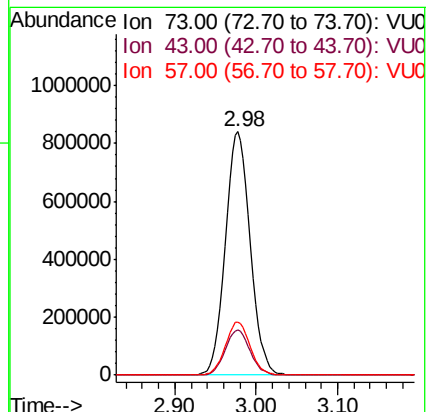
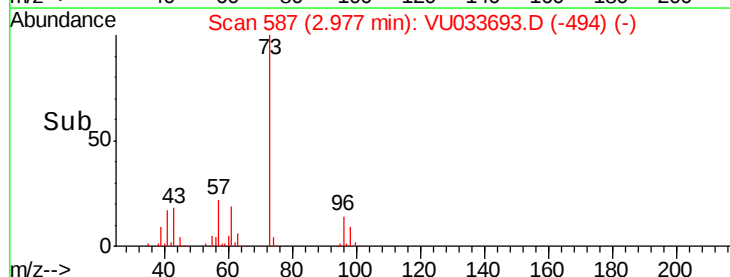
57 21.8 17.4 26.0

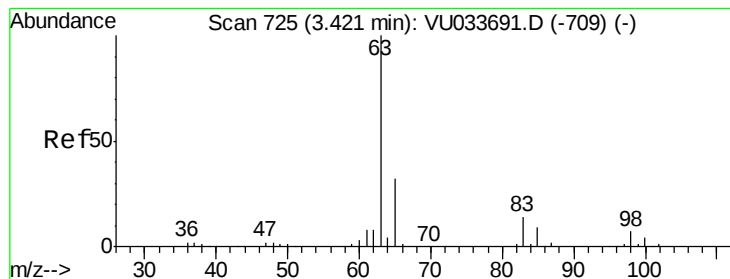


Abundance Ion 73.00 (72.70 to 73.70): VU033693.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033693.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033693.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 169.007 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

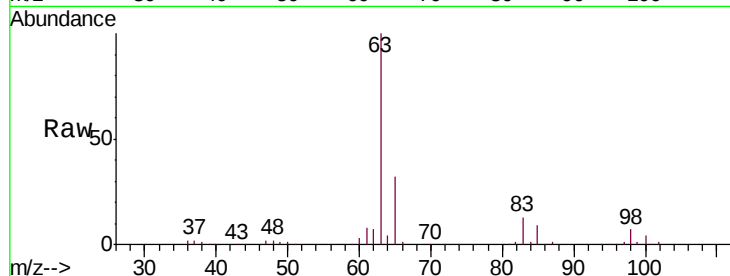
Tgt Ion: 63 Resp: 1015533

Ion Ratio Lower Upper

63 100

65 31.7 22.3 41.3

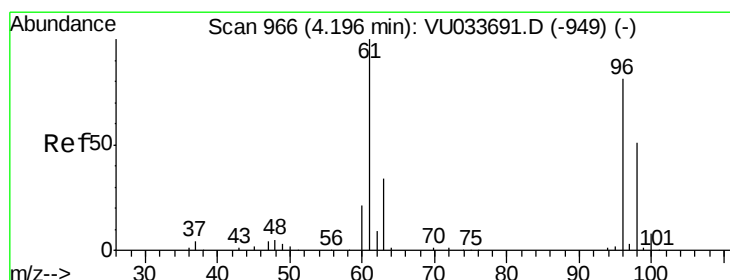
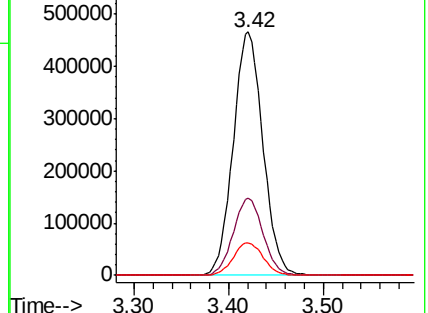
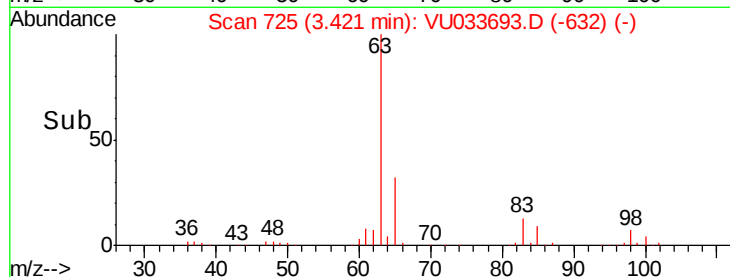
83 13.4 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VU033693.D (-725) (-)

Ion 65.00 (64.70 to 65.70): VU033693.D (-725) (-)

Ion 83.00 (82.70 to 83.70): VU033693.D (-725) (-)



#20

cis-1,2-Dichloroethene

Concen: 181.100 ug/L

RT: 4.20 min Scan# 966

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

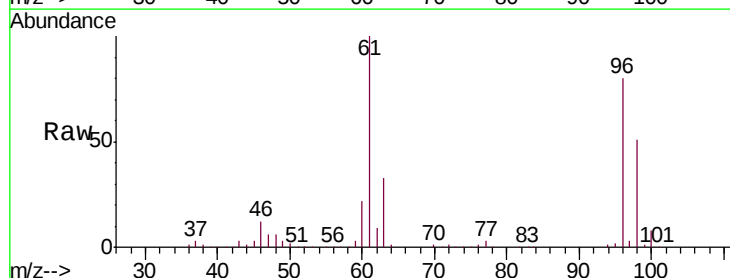
Tgt Ion: 96 Resp: 633452

Ion Ratio Lower Upper

96 100

61 125.1 87.0 161.6

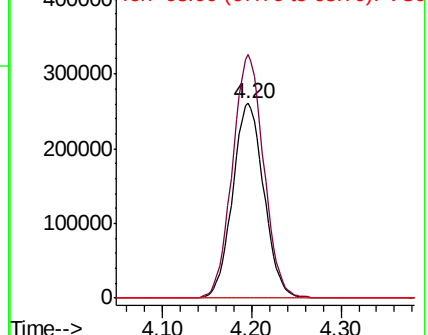
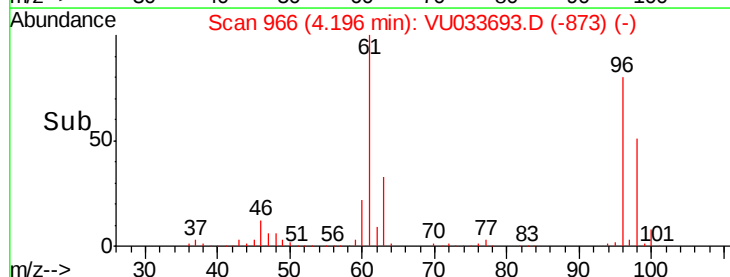
68 0.0 0.0 0.0

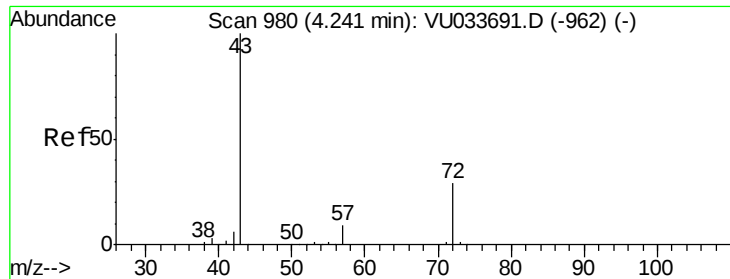


Abundance Ion 96.00 (95.70 to 96.70): VU033693.D (-966) (-)

Ion 61.00 (60.70 to 61.70): VU033693.D (-966) (-)

Ion 68.00 (67.70 to 68.70): VU033693.D (-966) (-)

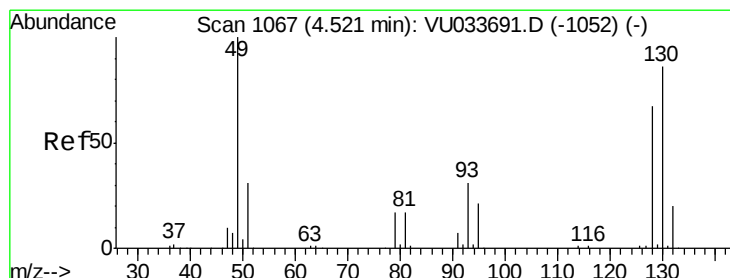
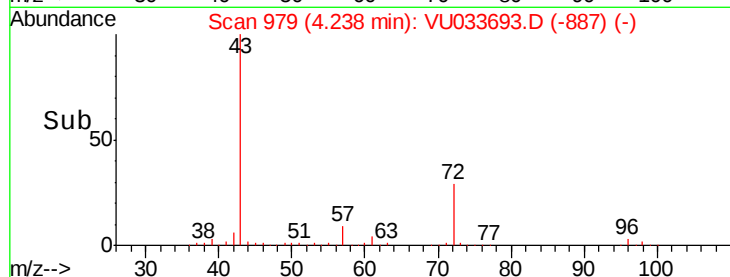
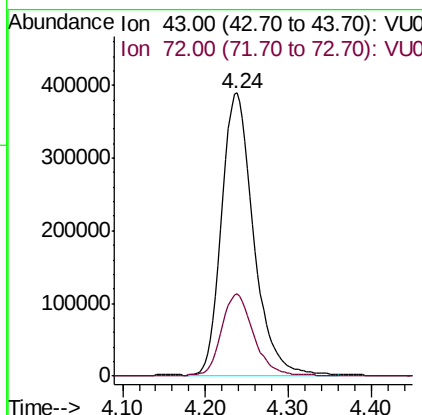
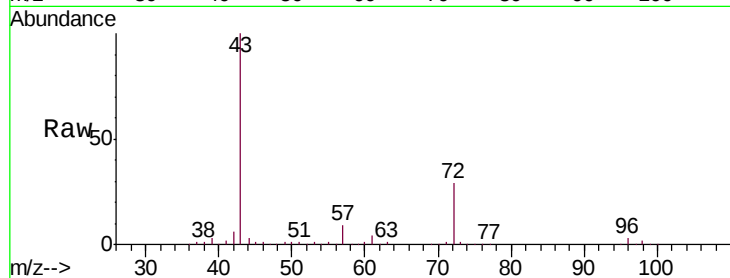




#22
 2-Butanone
 Concen: 353.064 ug/L
 RT: 4.24 min Scan# 979
 Delta R.T. -0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

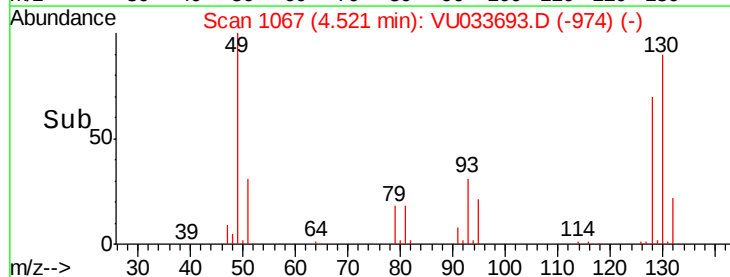
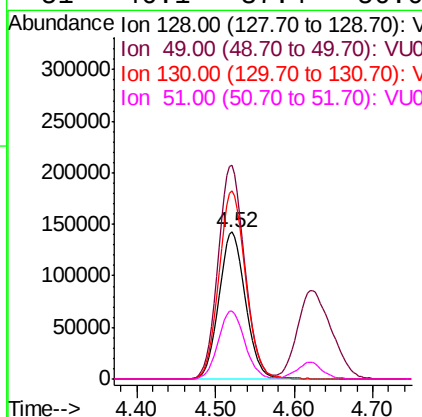
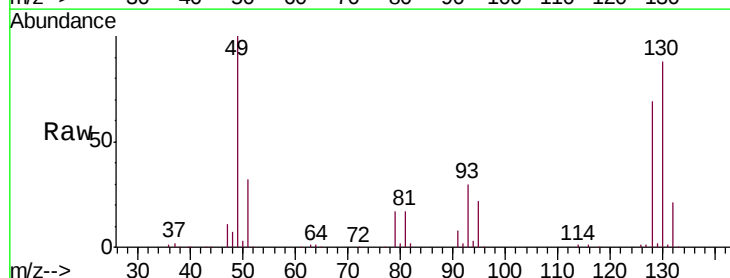
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

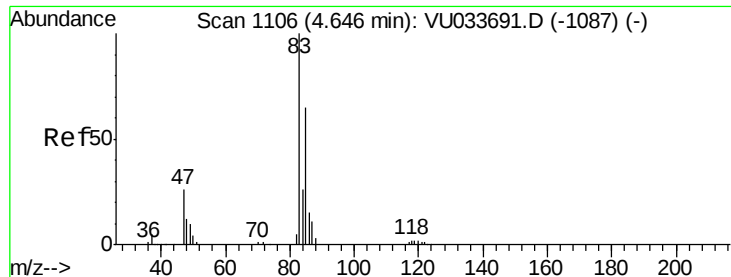
Tgt Ion: 43 Resp: 1039533
 Ion Ratio Lower Upper
 43 100
 72 29.7 15.2 45.6



#23
 Bromochloromethane
 Concen: 177.885 ug/L
 RT: 4.52 min Scan# 1067
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Tgt Ion: 128 Resp: 329320
 Ion Ratio Lower Upper
 128 100
 49 145.4 104.7 194.4
 130 128.1 89.6 166.4
 51 46.1 37.4 56.0





#25

Chloroform

Concen: 167.911 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

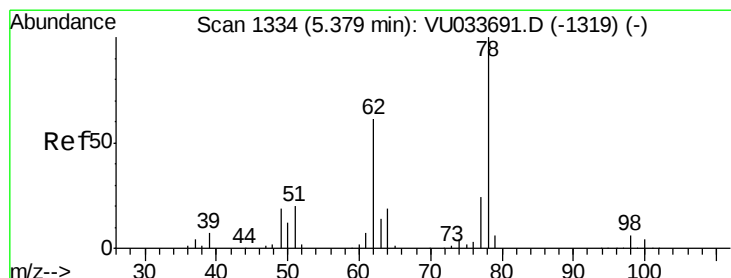
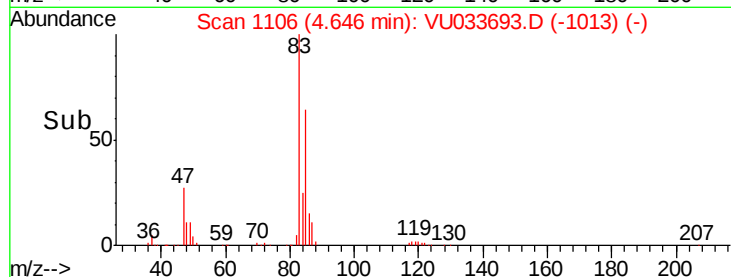
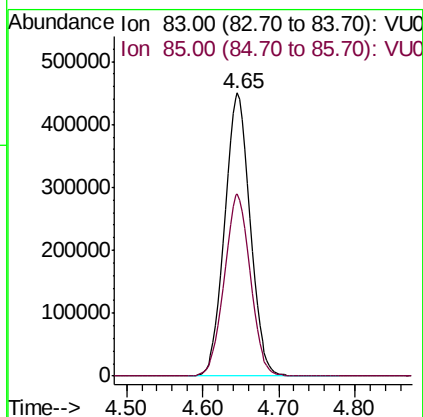
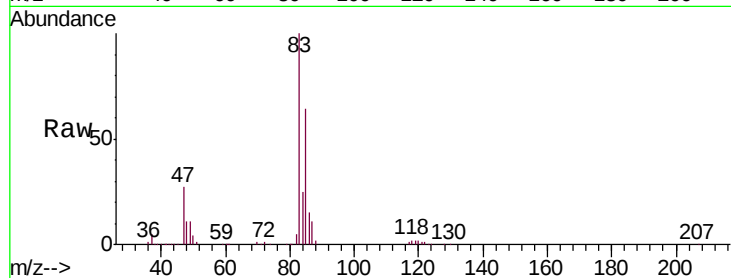
VSTD20036

Tgt Ion: 83 Resp: 1053697

Ion Ratio Lower Upper

83 100

85 64.3 45.9 85.3



#27

1,2-Dichloroethane

Concen: 167.148 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VU033693.D

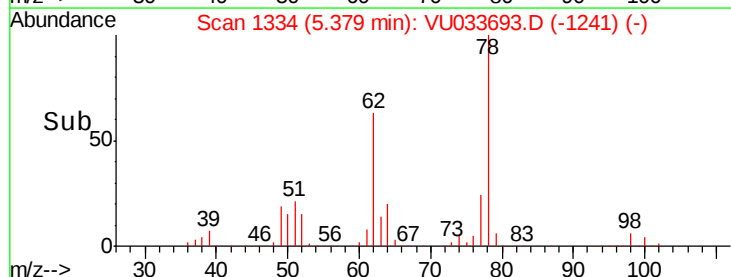
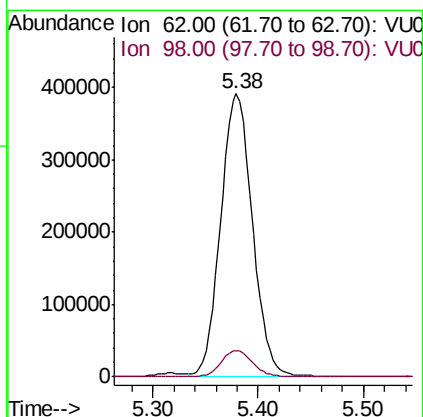
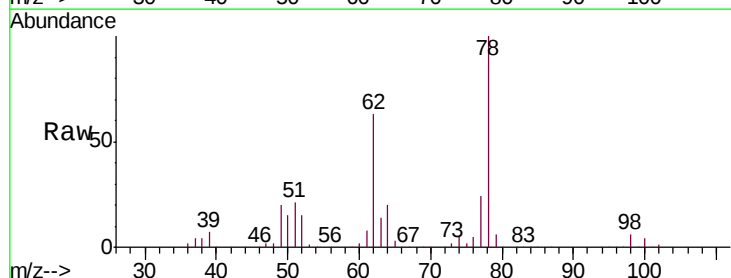
Acq: 09 Aug 2019 18:59

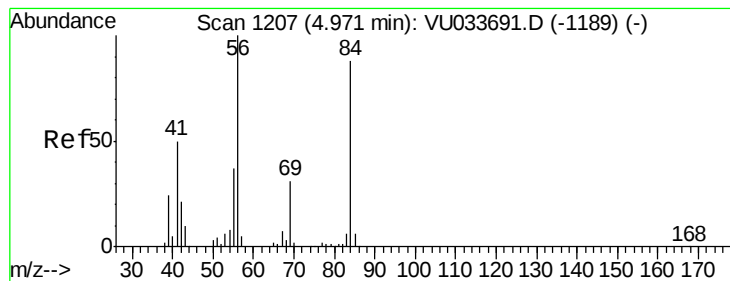
Tgt Ion: 62 Resp: 815340

Ion Ratio Lower Upper

62 100

98 9.4 7.4 11.2





#29

Cyclohexane

Concen: 189.541 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

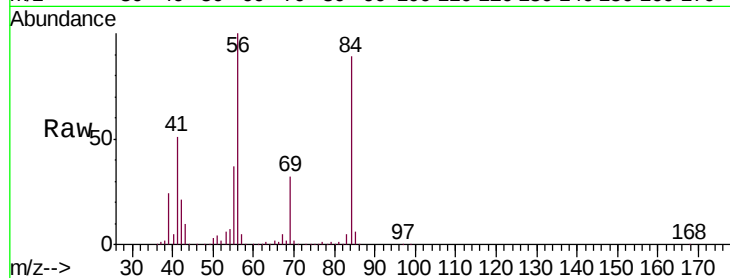
Tgt Ion: 56 Resp: 892052

Ion Ratio Lower Upper

56 100

69 31.3 25.3 37.9

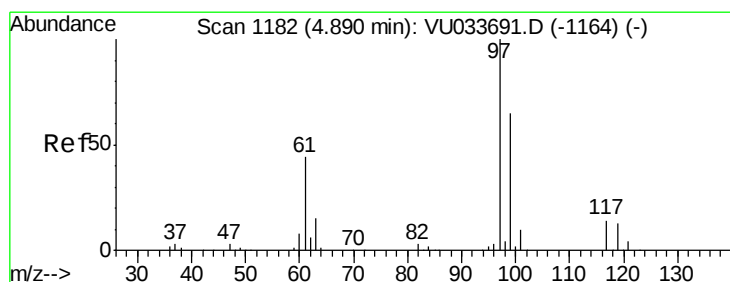
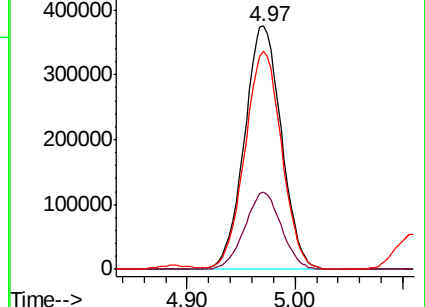
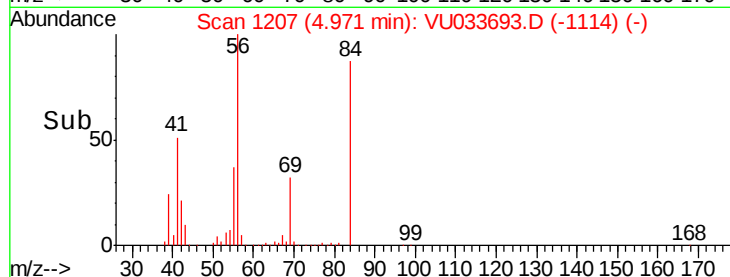
84 89.2 71.8 107.8



Abundance Ion 56.00 (55.70 to 56.70): VU033693.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU033693.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU033693.D (-1114) (-)



#30

1,1,1-Trichloroethane

Concen: 177.634 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

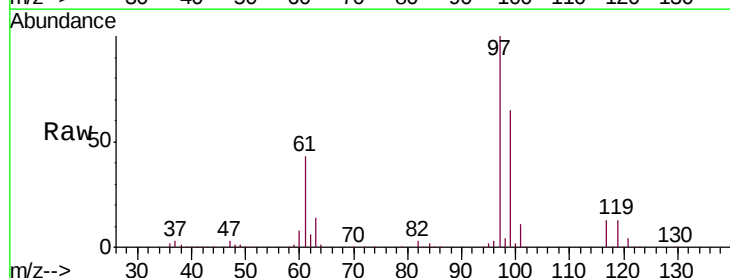
Tgt Ion: 97 Resp: 904179

Ion Ratio Lower Upper

97 100

99 64.5 52.0 78.0

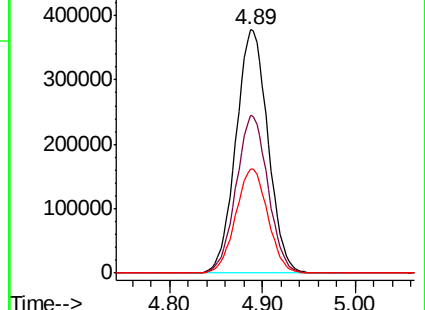
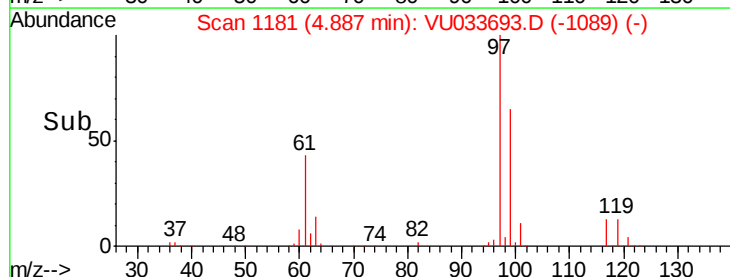
61 42.9 35.0 52.4

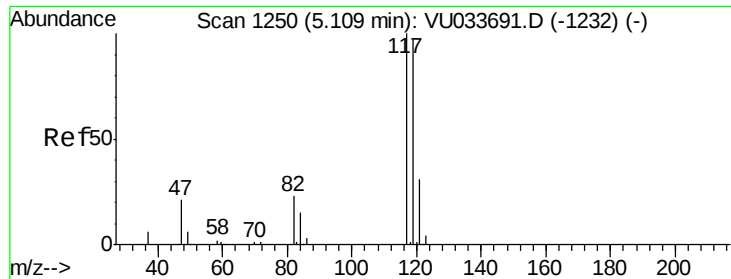


Abundance Ion 97.00 (96.70 to 97.70): VU033693.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033693.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033693.D (-1089) (-)

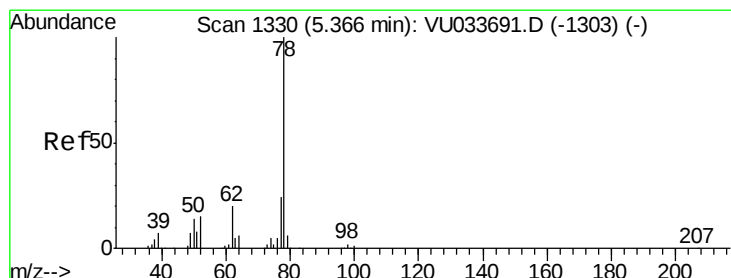
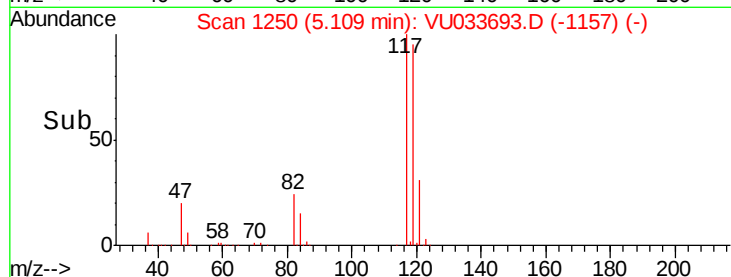
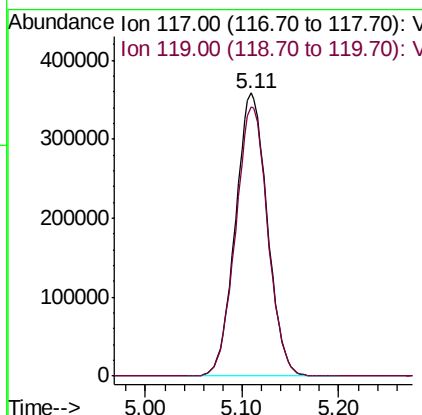
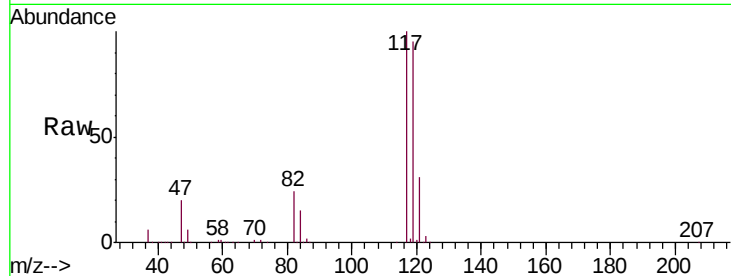




#31
Carbon tetrachloride
Concen: 182.917 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU033693.D
Acq: 09 Aug 2019 18:59

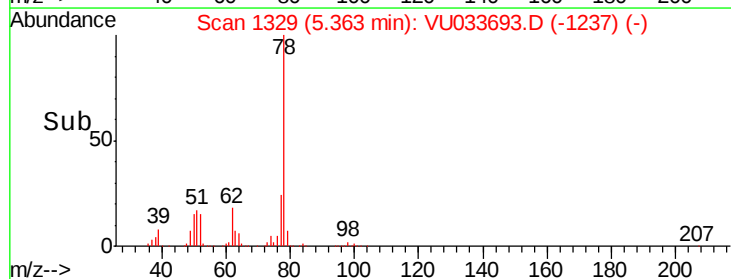
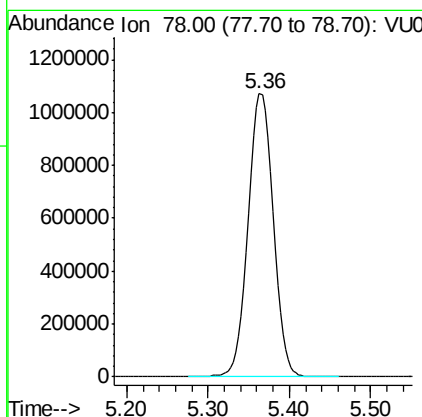
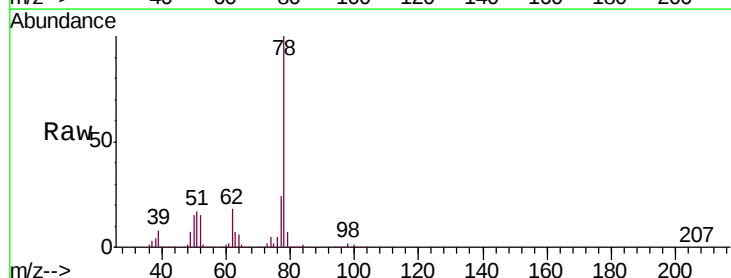
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

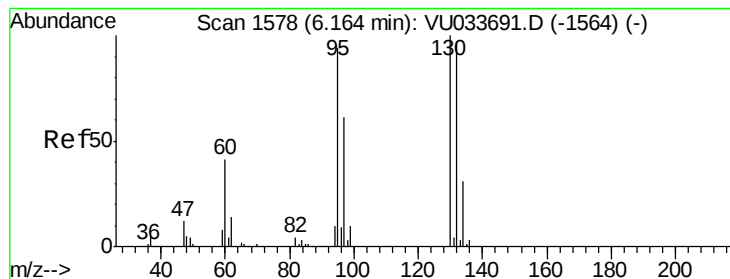
Tgt Ion:117 Resp: 821187
Ion Ratio Lower Upper
117 100
119 95.8 78.2 117.4



#33
Benzene
Concen: 177.234 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033693.D
Acq: 09 Aug 2019 18:59

Tgt Ion: 78 Resp: 2268963





#34

Trichloroethene

Concen: 183.624 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion: 95 Resp: 606162

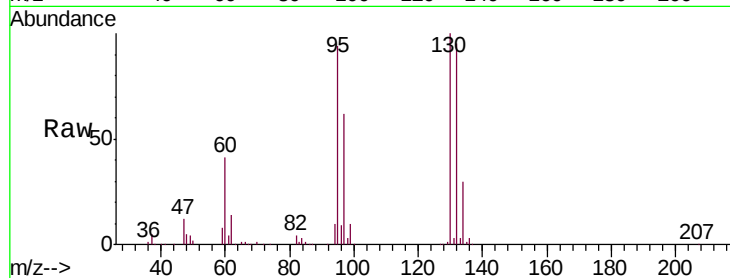
Ion Ratio Lower Upper

95 100

97 65.7 45.6 84.8

132 100.9 72.0 133.8

130 106.4 74.3 138.1

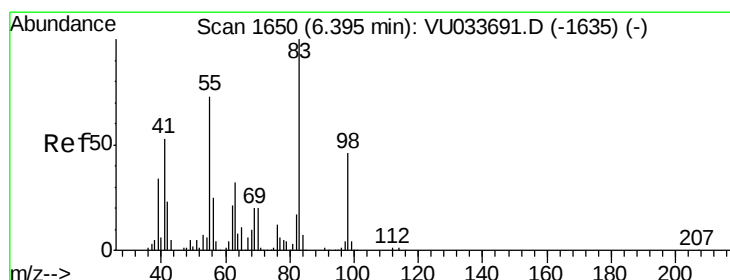
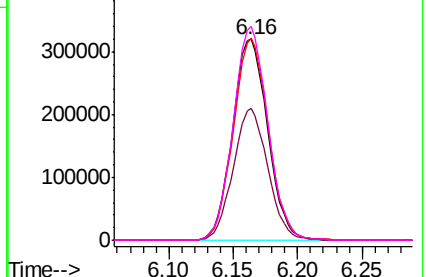
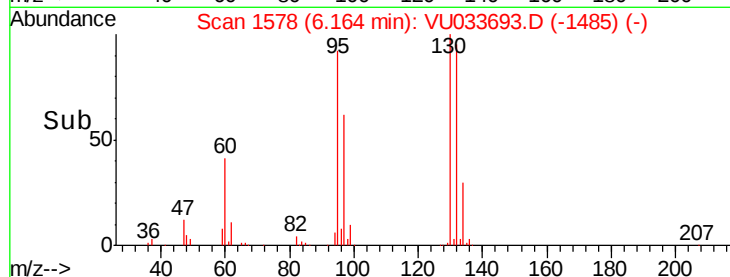


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 192.173 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

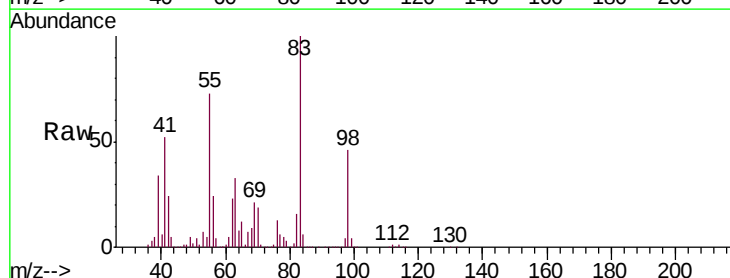
Tgt Ion: 83 Resp: 966791

Ion Ratio Lower Upper

83 100

55 72.4 58.1 87.1

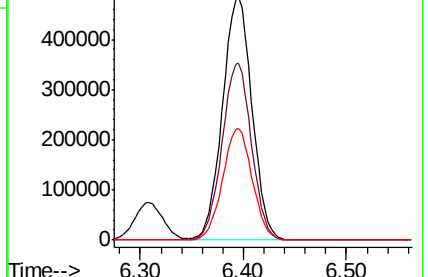
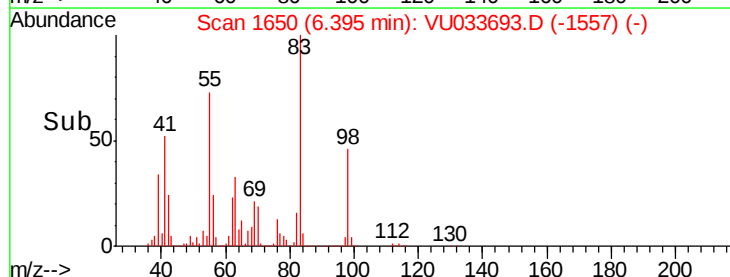
98 46.0 36.8 55.2

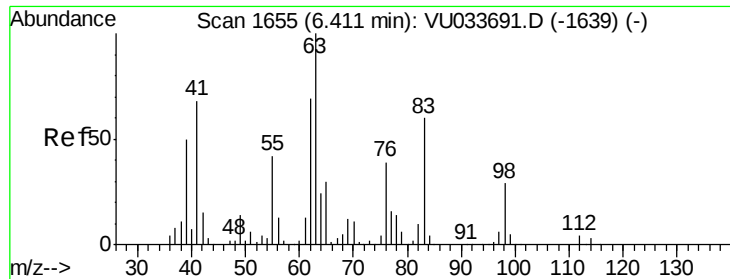


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

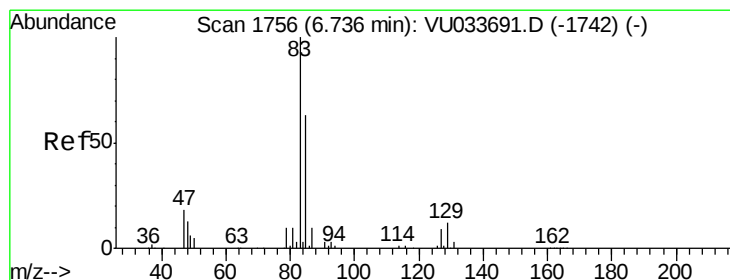
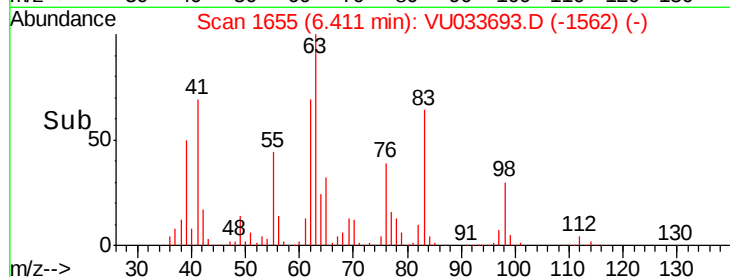
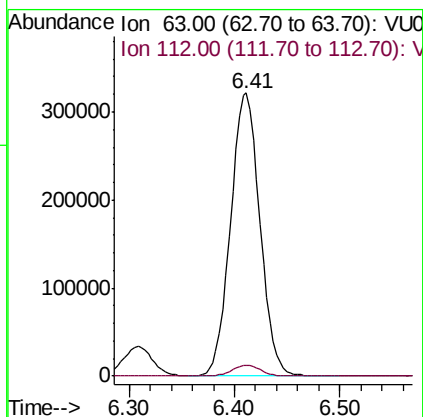
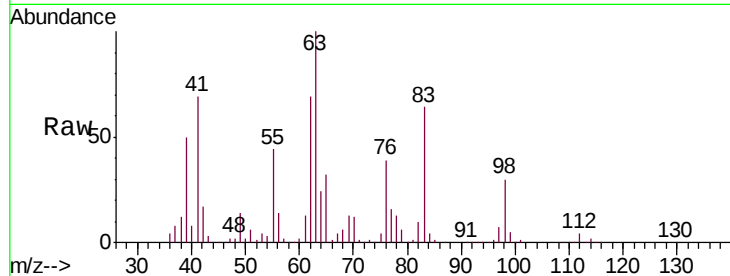




#37
 1,2-Dichloropropane
 Concen: 178.145 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

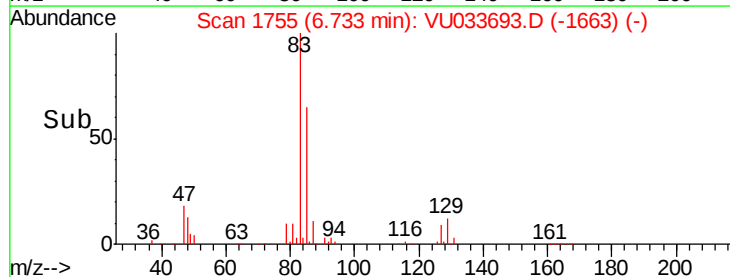
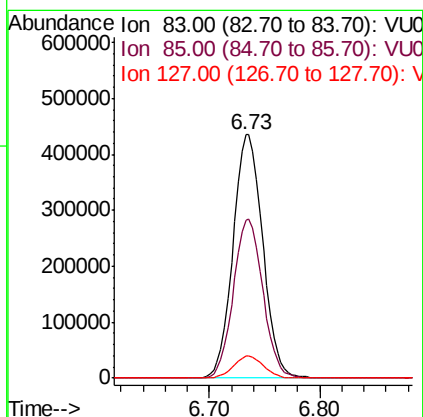
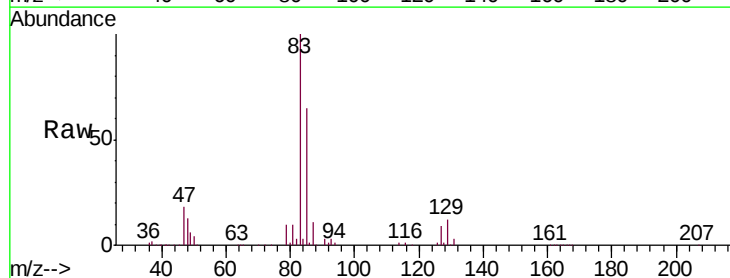
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

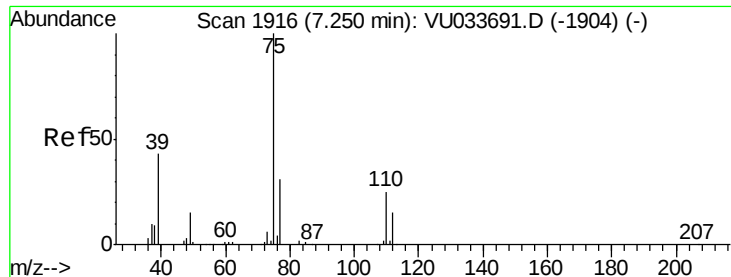
Tgt Ion: 63 Resp: 617828
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.1 4.7



#38
 Bromodichloromethane
 Concen: 180.810 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Tgt Ion: 83 Resp: 810897
 Ion Ratio Lower Upper
 83 100
 85 65.0 44.2 82.0
 127 9.0 6.8 10.2

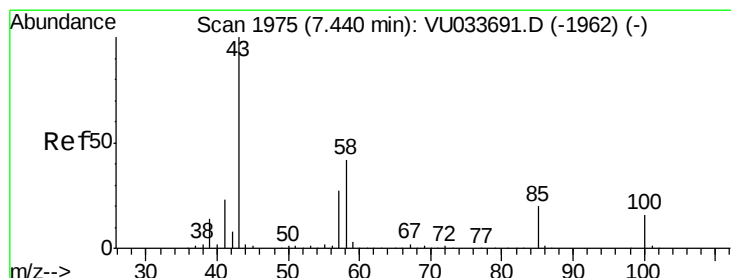
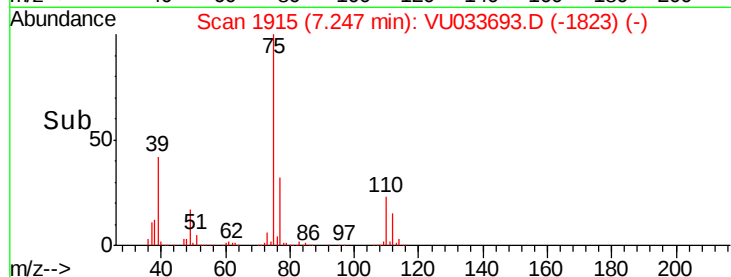
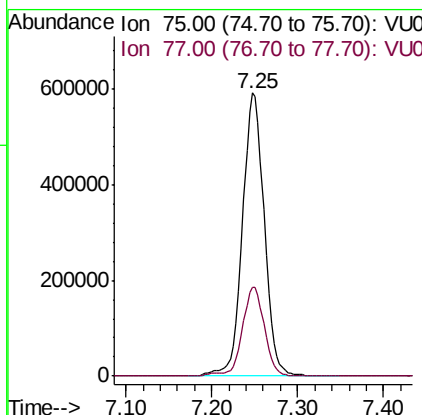
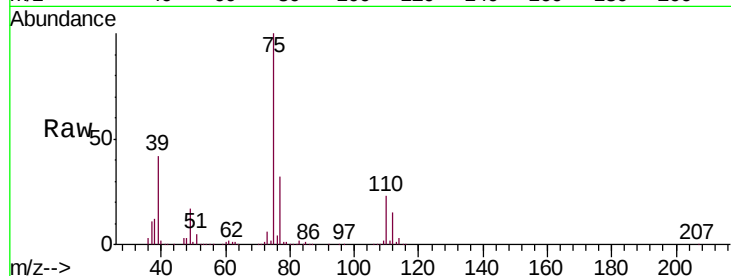




#39
 cis-1,3-Dichloropropene
 Concen: 202.932 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

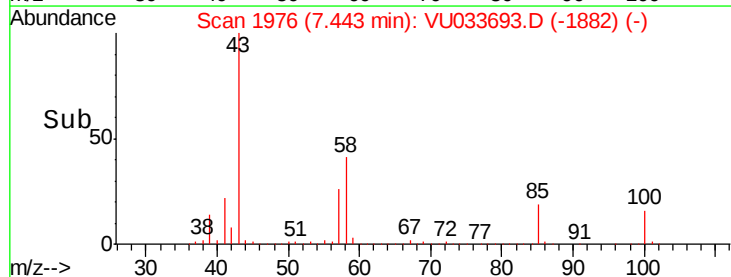
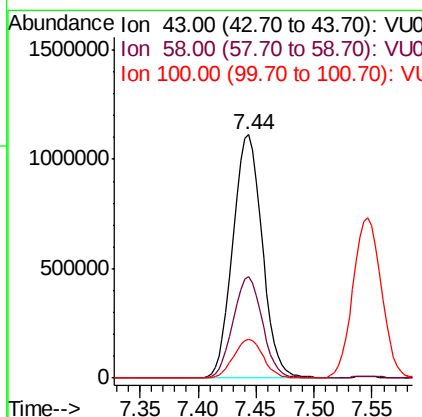
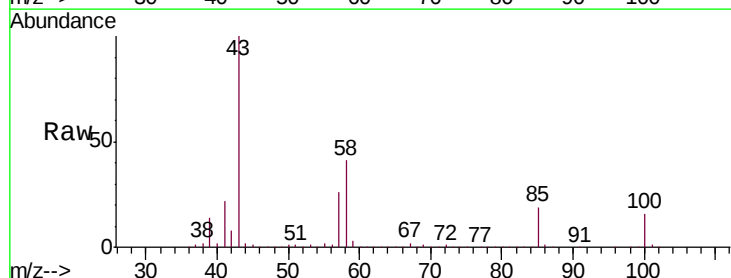
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

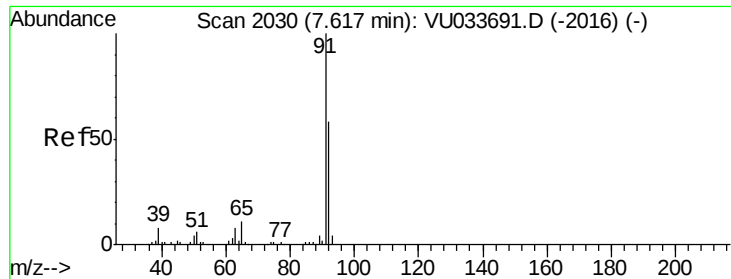
Tgt Ion: 75 Resp: 1043404
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 387.376 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Tgt Ion: 43 Resp: 1949892
 Ion Ratio Lower Upper
 43 100
 58 41.5 33.4 50.0
 100 16.1 13.2 19.8





#42

Toluene

Concen: 184.141 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

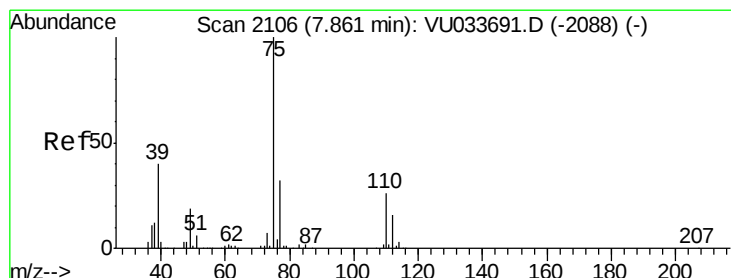
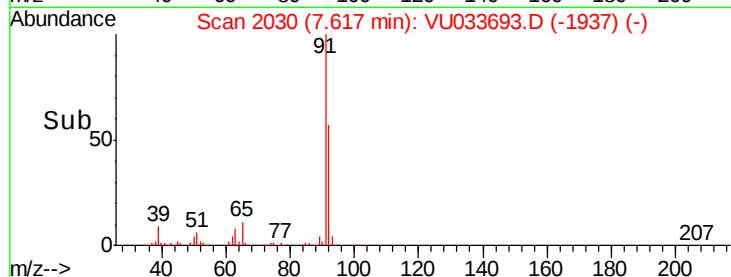
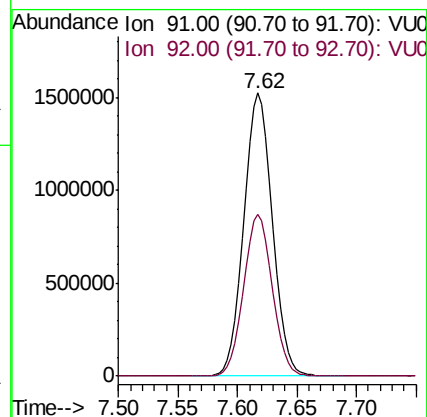
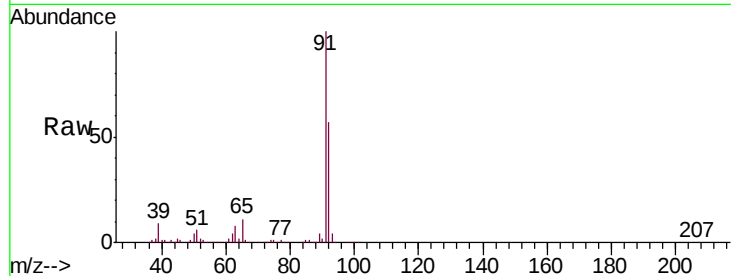
VSTD20036

Tgt Ion: 91 Resp: 2533366

Ion Ratio Lower Upper

91 100

92 57.3 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 191.906 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033693.D

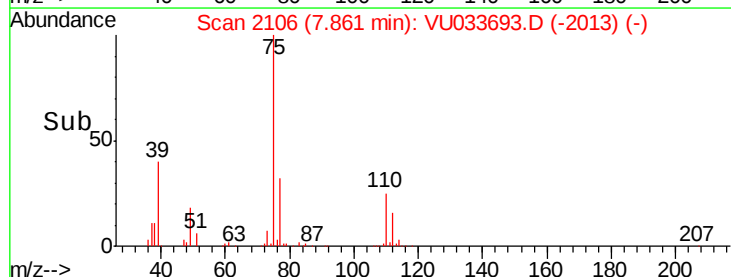
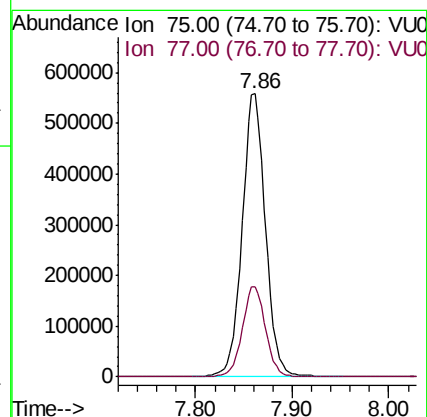
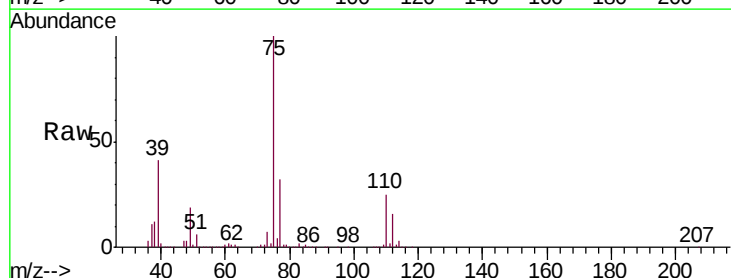
Acq: 09 Aug 2019 18:59

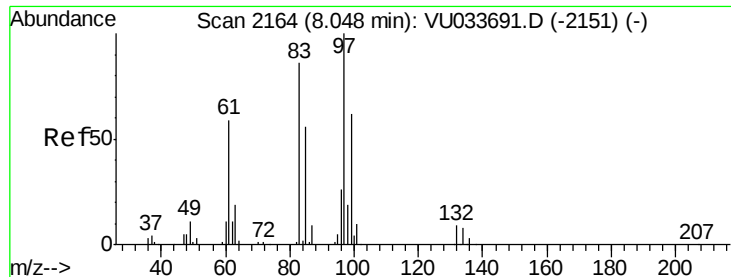
Tgt Ion: 75 Resp: 932275

Ion Ratio Lower Upper

75 100

77 32.0 22.4 41.6

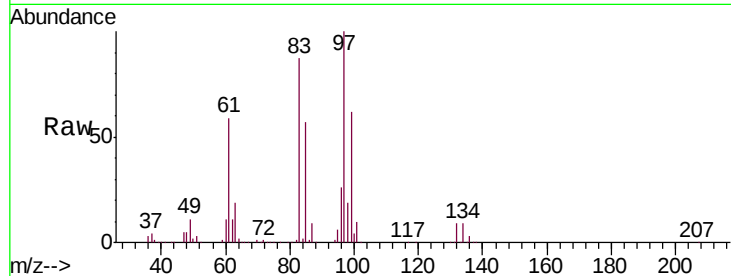




#45
 1,1,2-Trichloroethane
 Concen: 180.277 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20036

Tgt Ion:	97	Resp:	597815
Ion	Ratio	Lower	Upper
97	100		
99	62.3	43.3	80.5
83	87.3	60.5	112.5
85	56.9	38.9	72.3



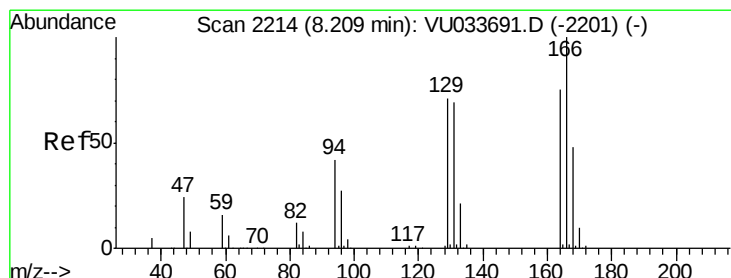
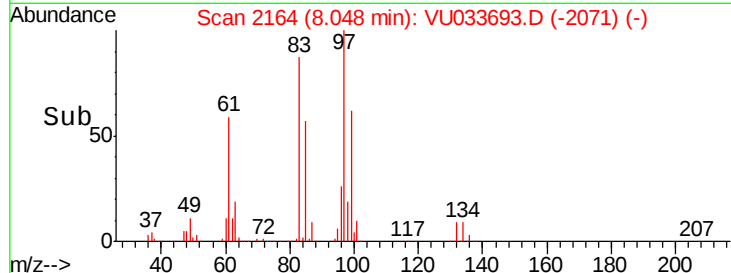
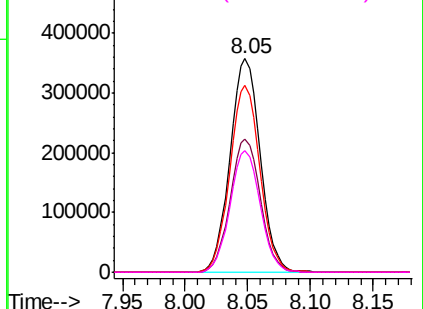
Abundance

Ion 97.00 (96.70 to 97.70): VU033693.D (-2164) (-)

Ion 99.00 (98.70 to 99.70): VU033693.D (-2164) (-)

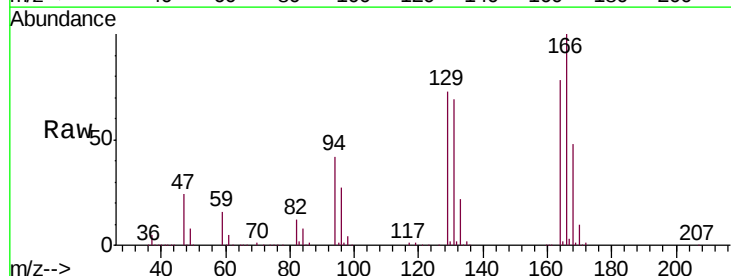
Ion 83.00 (82.70 to 83.70): VU033693.D (-2164) (-)

Ion 85.00 (84.70 to 85.70): VU033693.D (-2164) (-)



#46
 Tetrachloroethene
 Concen: 188.676 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Tgt Ion:	164	Resp:	508268
Ion	Ratio	Lower	Upper
164	100		
129	92.5	65.5	121.7
131	88.6	63.6	118.0
166	127.6	92.7	172.3



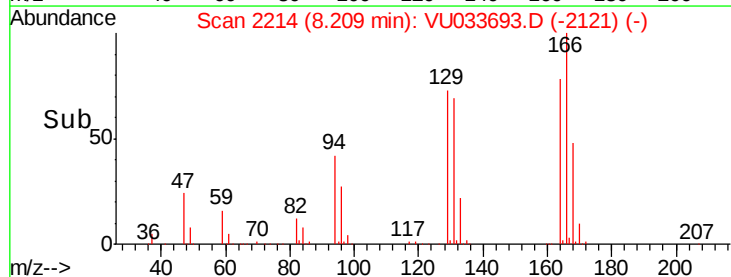
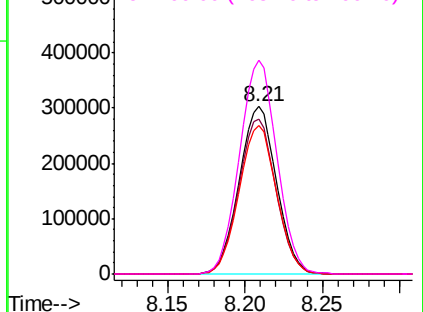
Abundance

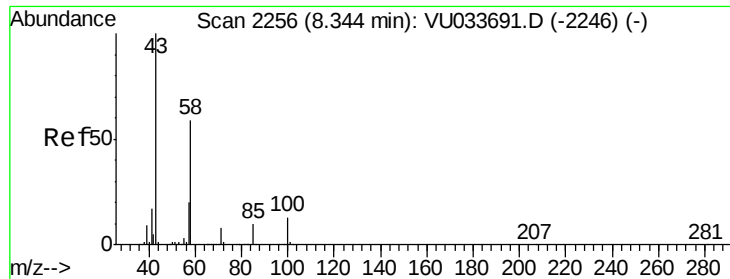
Ion 164.00 (163.70 to 164.70): VU033693.D (-2214) (-)

Ion 129.00 (128.70 to 129.70): VU033693.D (-2214) (-)

Ion 131.00 (130.70 to 131.70): VU033693.D (-2214) (-)

Ion 166.00 (165.70 to 166.70): VU033693.D (-2214) (-)

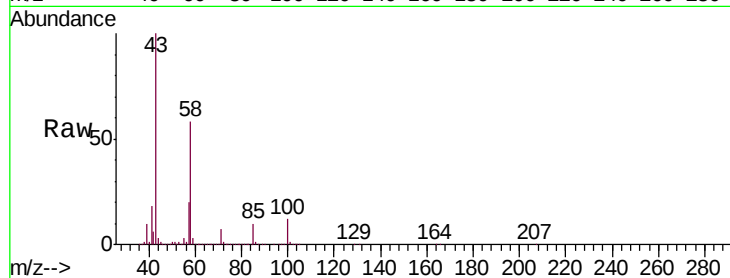




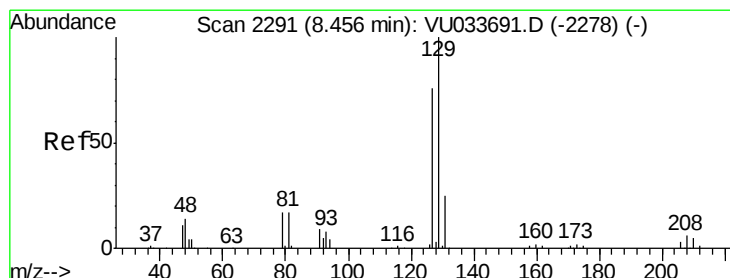
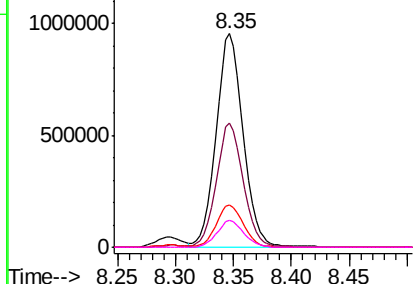
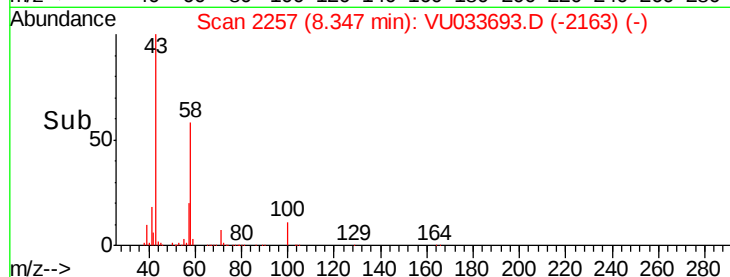
#48
 2-Hexanone
 Concen: 375.937 ug/L
 RT: 8.35 min Scan# 2257
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

Tgt Ion: 43 Resp: 1549989
 Ion Ratio Lower Upper
 43 100
 58 58.1 46.6 70.0
 57 20.0 16.2 24.4
 100 12.5 10.1 15.1

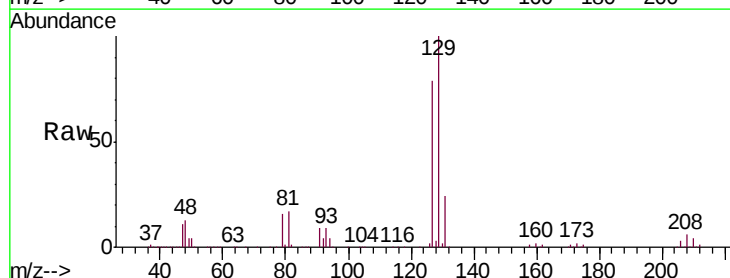


Abundance Ion 43.00 (42.70 to 43.70): VU033693.D (-2163) (-)
 Ion 58.00 (57.70 to 58.70): VU033693.D (-2163) (-)
 Ion 57.00 (56.70 to 57.70): VU033693.D (-2163) (-)
 Ion 100.00 (99.70 to 100.70): VU033693.D (-2163) (-)

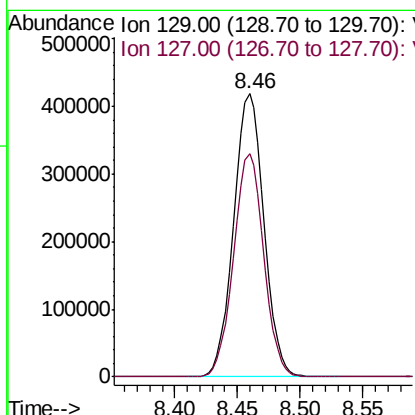
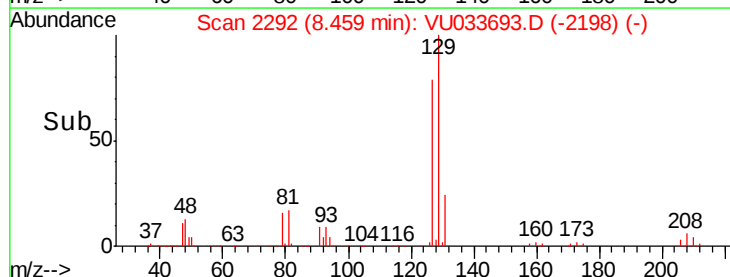


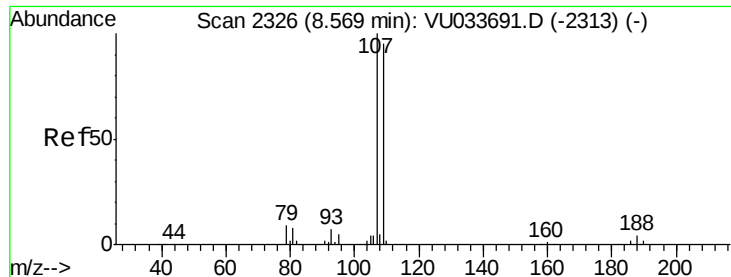
#49
 Dibromochloromethane
 Concen: 186.243 ug/L
 RT: 8.46 min Scan# 2292
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Tgt Ion: 129 Resp: 703035
 Ion Ratio Lower Upper
 129 100
 127 79.1 53.3 98.9



Abundance Ion 129.00 (128.70 to 129.70): VU033693.D (-2198) (-)
 Ion 127.00 (126.70 to 127.70): VU033693.D (-2198) (-)

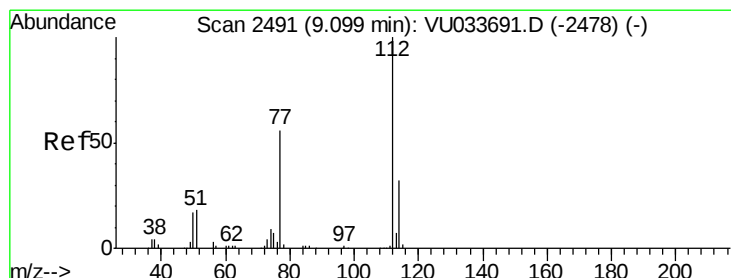
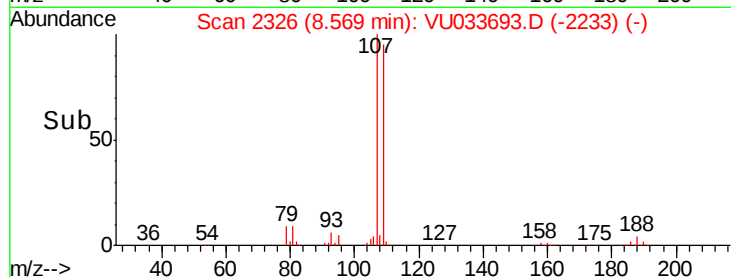
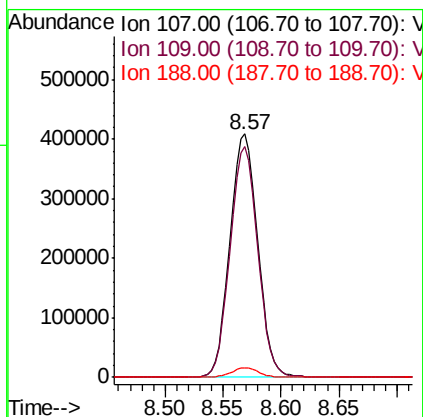
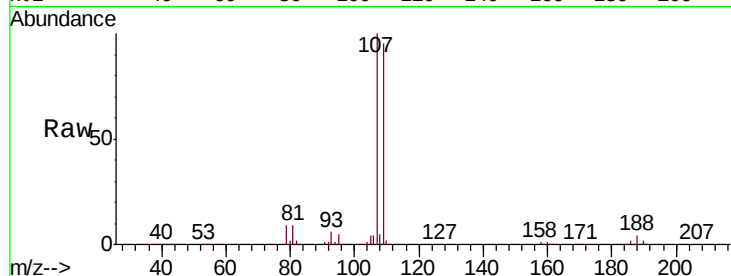




#50
1,2-Dibromoethane
Concen: 187.660 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033693.D
Acq: 09 Aug 2019 18:59

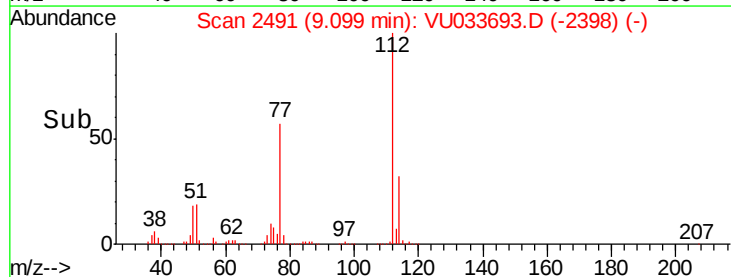
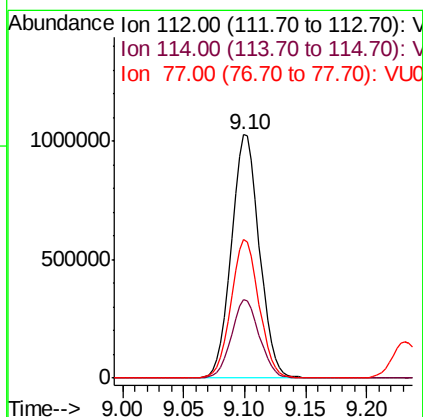
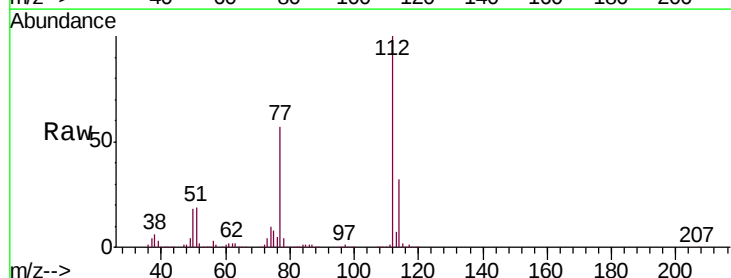
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

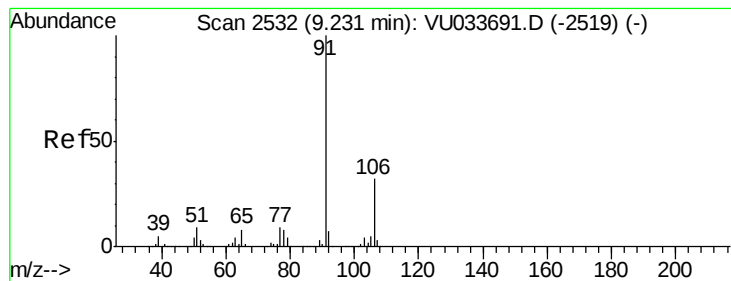
Tgt Ion:107 Resp: 676008
Ion Ratio Lower Upper
107 100
109 94.9 66.4 123.4
188 4.0 3.2 4.8



#51
Chlorobenzene
Concen: 181.841 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033693.D
Acq: 09 Aug 2019 18:59

Tgt Ion:112 Resp: 1645209
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.9
77 57.0 45.3 67.9





#52

Ethylbenzene

Concen: 191.847 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

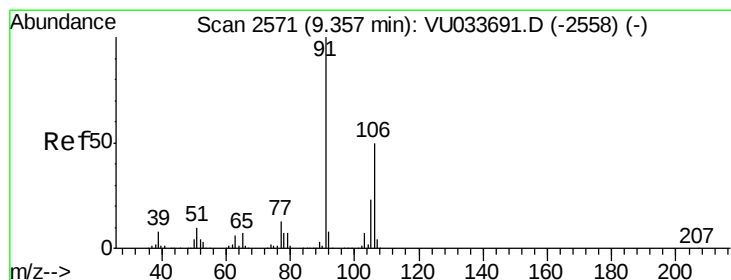
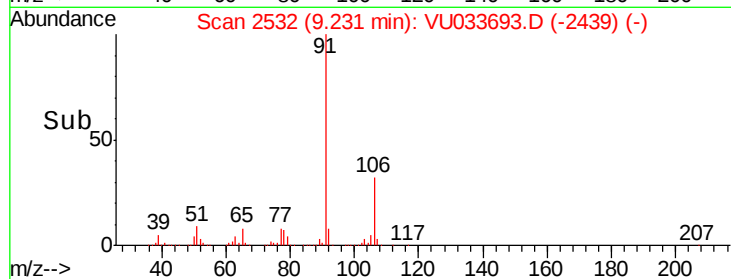
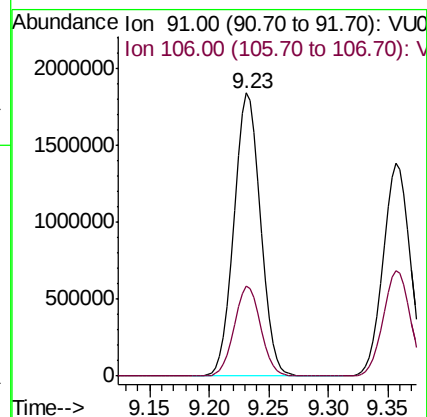
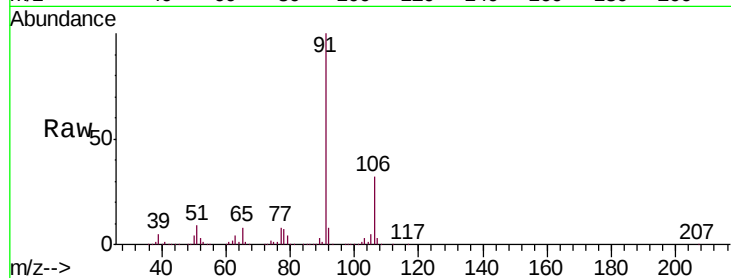
VSTD20036

Tgt Ion: 91 Resp: 2843426

Ion Ratio Lower Upper

91 100

106 31.7 22.5 41.7



#53

m,p-Xylene

Concen: 193.912 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033693.D

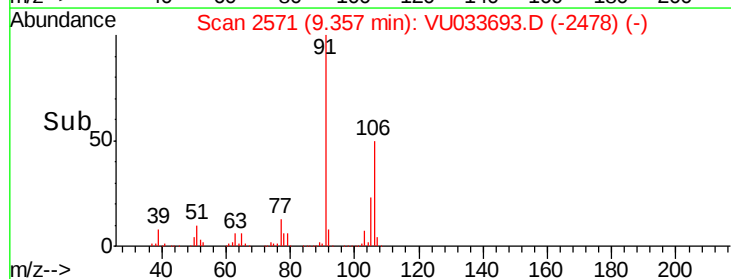
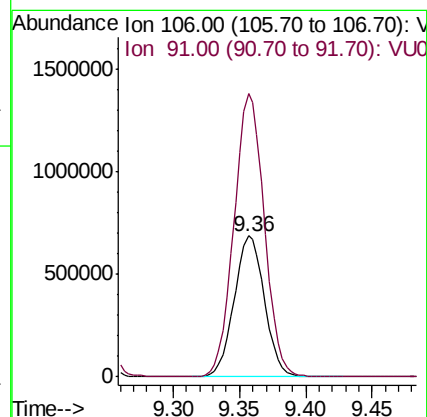
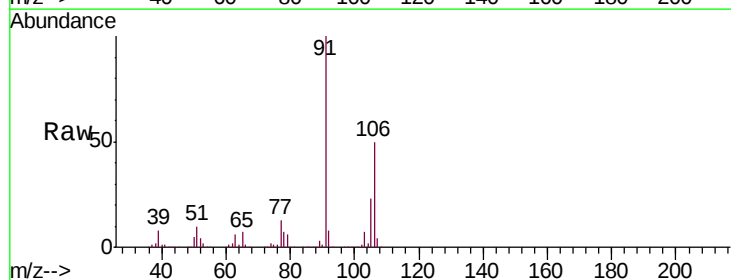
Acq: 09 Aug 2019 18:59

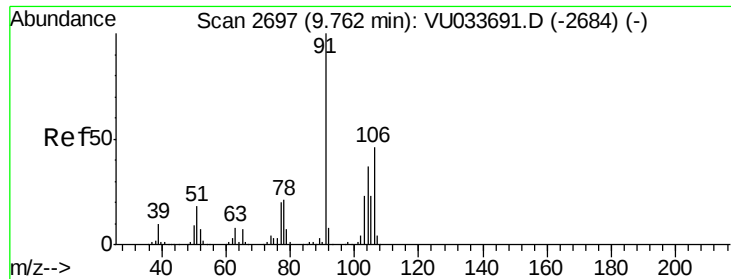
Tgt Ion: 106 Resp: 1087958

Ion Ratio Lower Upper

106 100

91 200.5 138.8 257.8





#54

o-xylene

Concen: 196.575 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

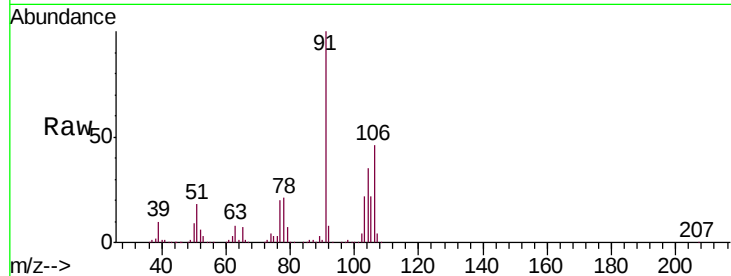
VSTD20036

Tgt Ion:106 Resp: 1094797

Ion Ratio Lower Upper

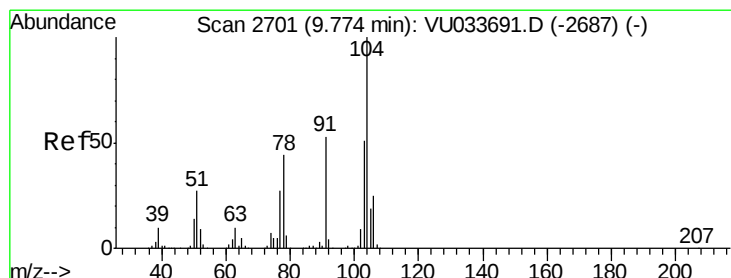
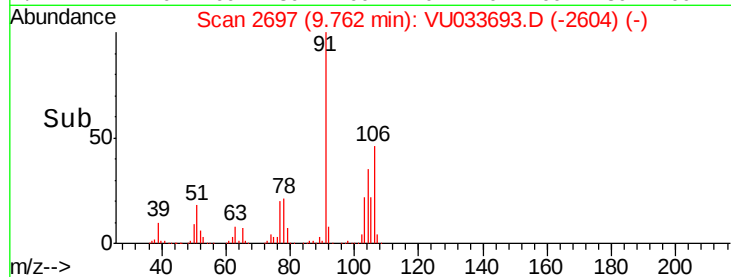
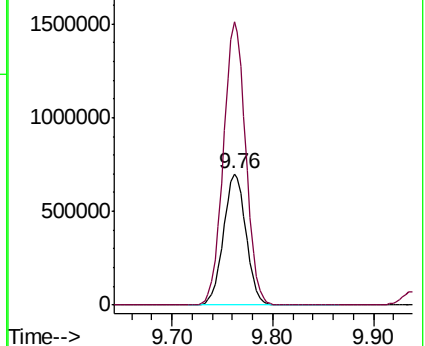
106 100

91 215.5 150.9 280.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 204.067 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033693.D

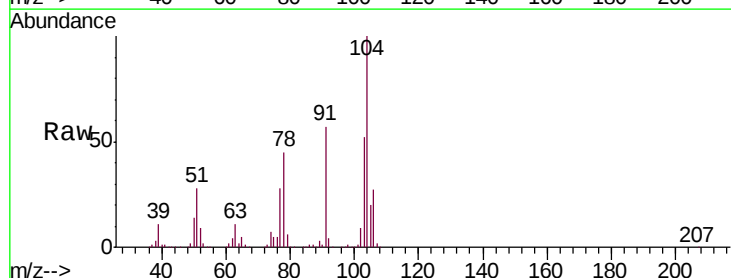
Acq: 09 Aug 2019 18:59

Tgt Ion:104 Resp: 1929667

Ion Ratio Lower Upper

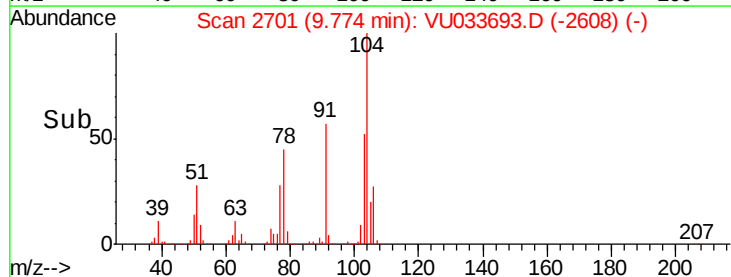
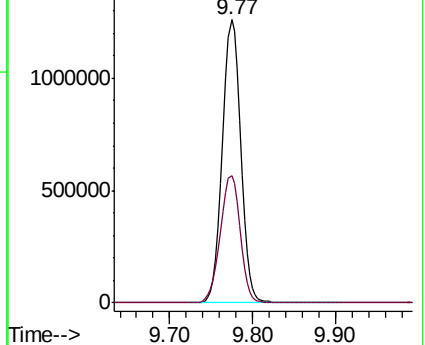
104 100

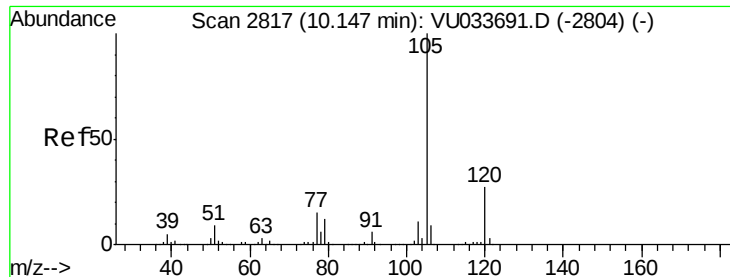
78 45.2 31.0 57.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 200.507 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

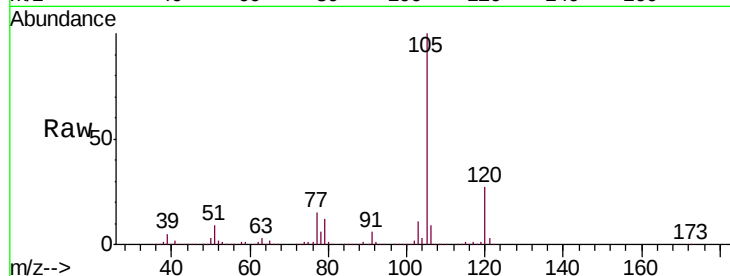
Tgt Ion:105 Resp: 2882777

Ion Ratio Lower Upper

105 100

120 26.7 21.6 32.4

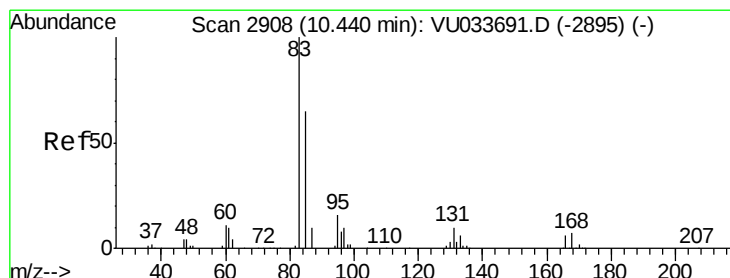
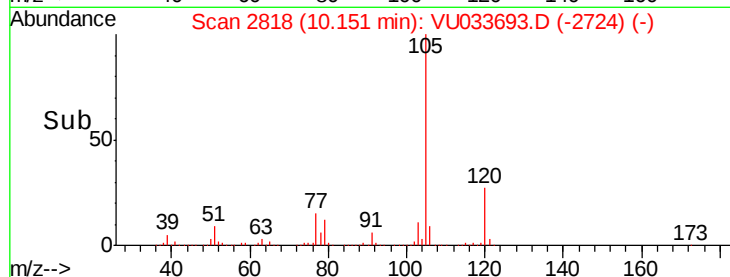
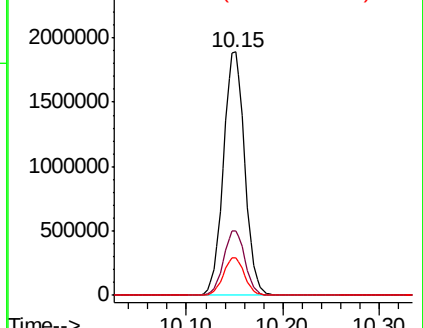
77 15.4 12.3 18.5



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: 175.123 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

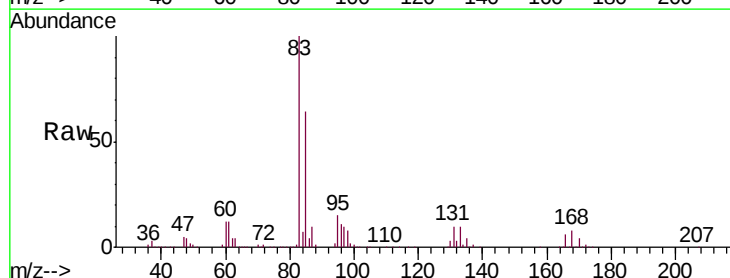
Tgt Ion: 83 Resp: 1066193

Ion Ratio Lower Upper

83 100

85 64.3 45.8 85.0

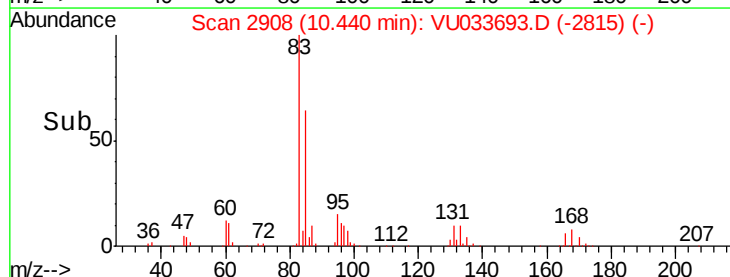
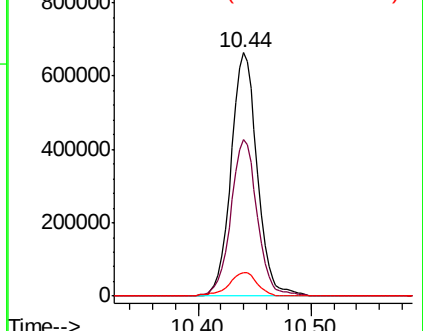
131 9.7 8.1 12.1

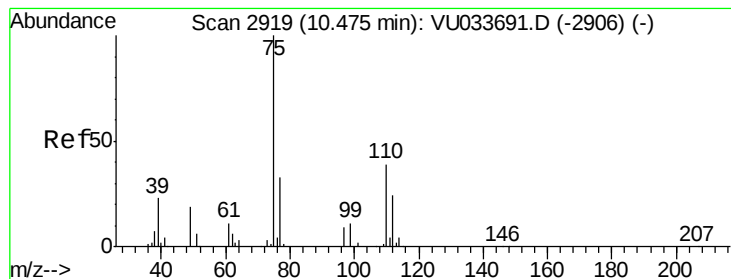


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 175.647 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

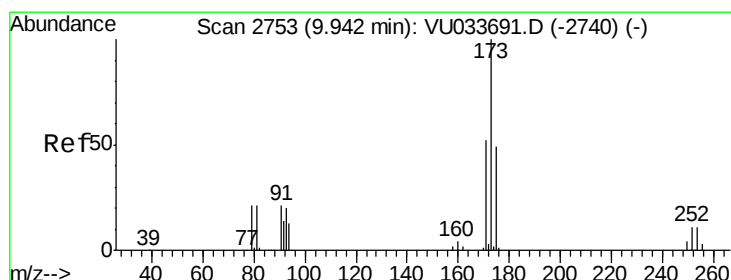
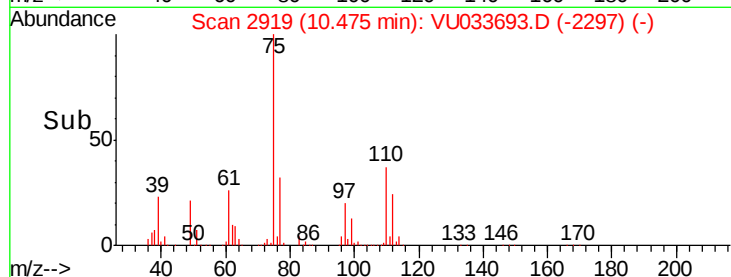
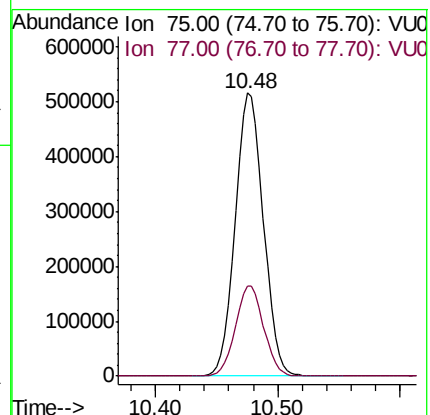
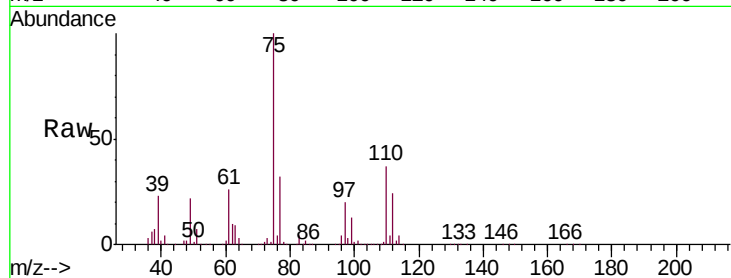
VSTD20036

Tgt Ion: 75 Resp: 828634

Ion Ratio Lower Upper

75 100

77 32.0 26.4 39.6



#61

Bromoform

Concen: 194.612 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

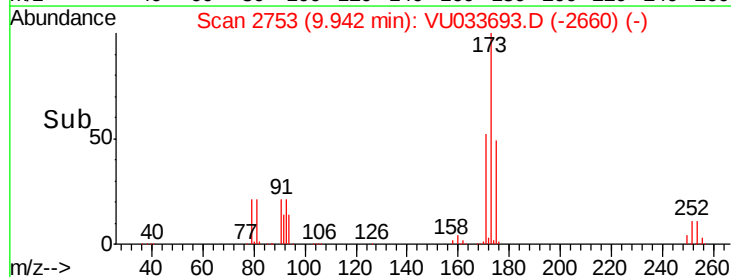
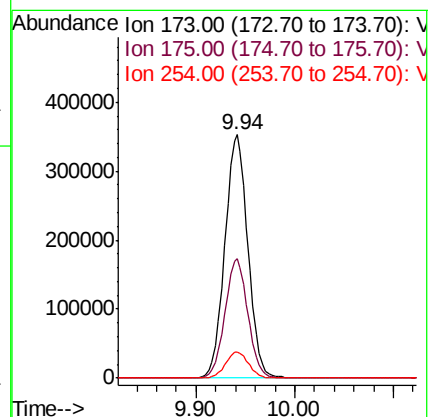
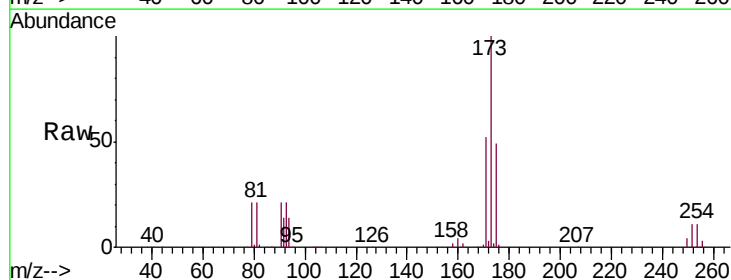
Tgt Ion: 173 Resp: 578391

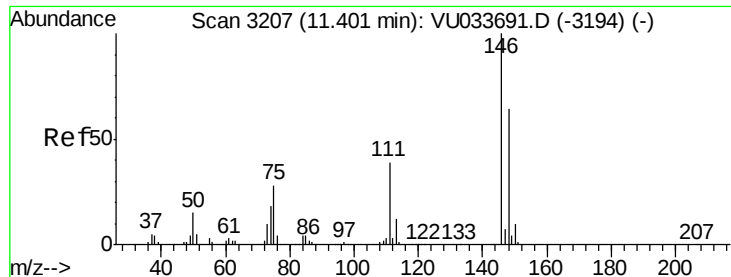
Ion Ratio Lower Upper

173 100

175 48.7 39.8 59.8

254 10.8 8.4 12.6

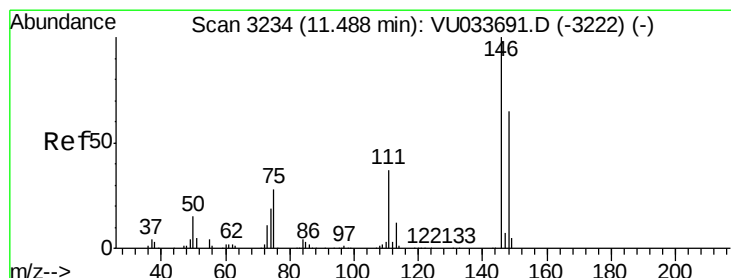
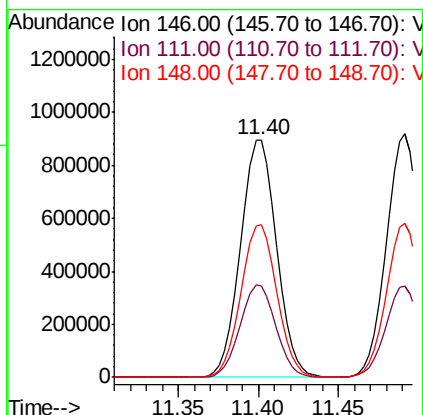
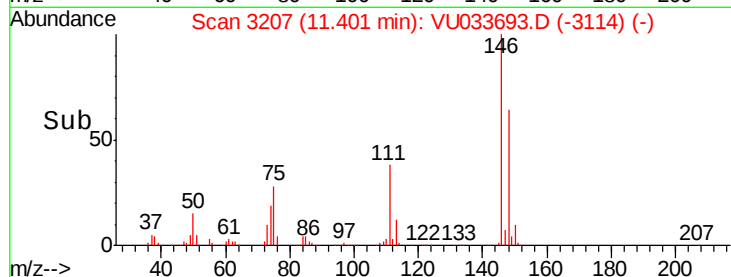
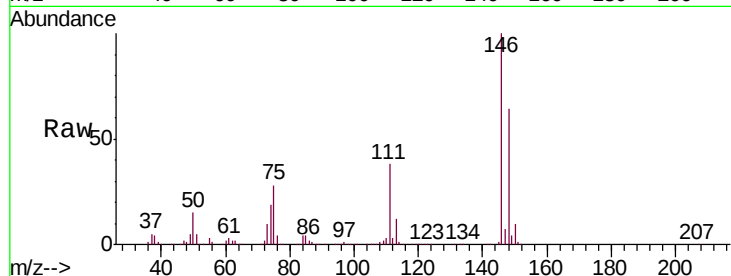




#62
 1,3-Dichlorobenzene
 Concen: 184.086 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

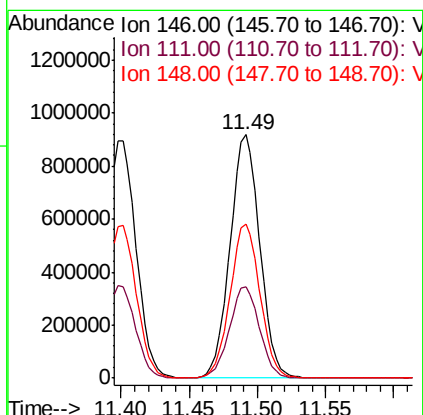
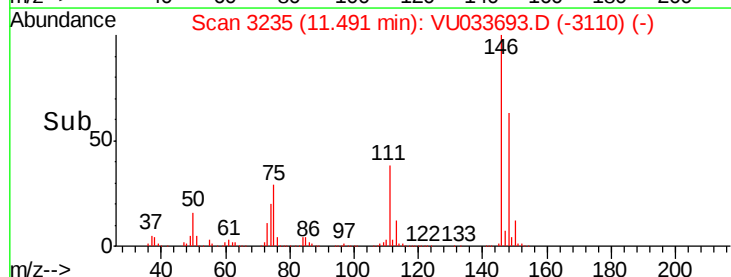
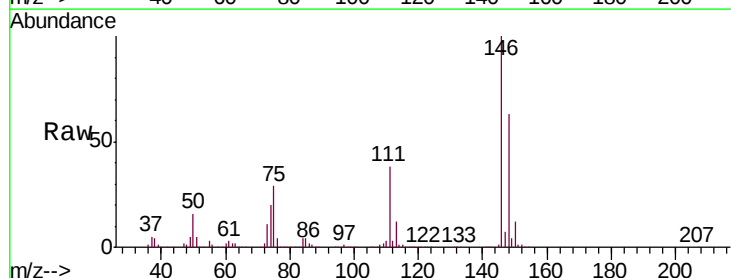
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

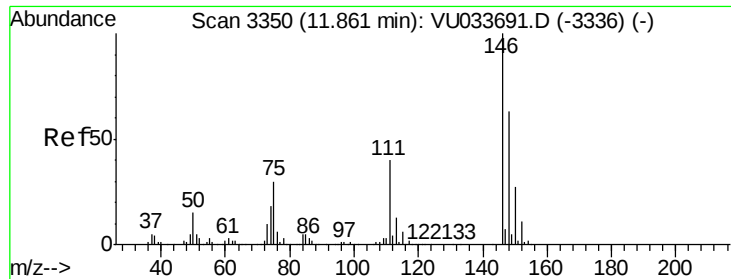
Tgt Ion:146 Resp: 1376862
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.0 50.2
 148 64.3 44.7 82.9



#63
 1,4-Dichlorobenzene
 Concen: 179.217 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Tgt Ion:146 Resp: 1386345
 Ion Ratio Lower Upper
 146 100
 111 37.7 26.0 48.4
 148 63.4 45.3 84.1





#65

1,2-Dichlorobenzene

Concen: 182.796 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

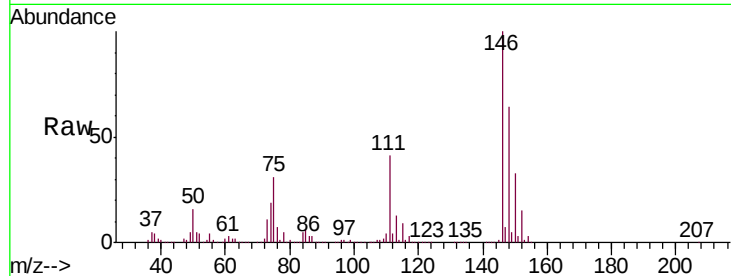
Tgt Ion:146 Resp: 1381079

Ion Ratio Lower Upper

146 100

111 40.6 32.2 48.2

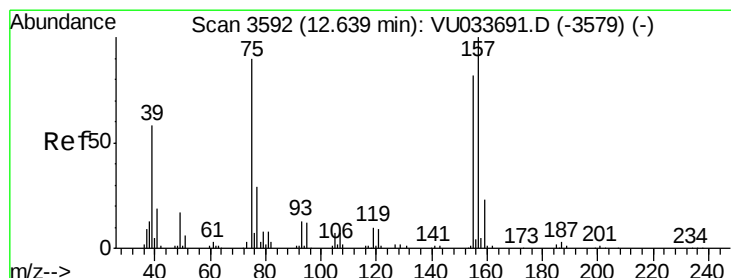
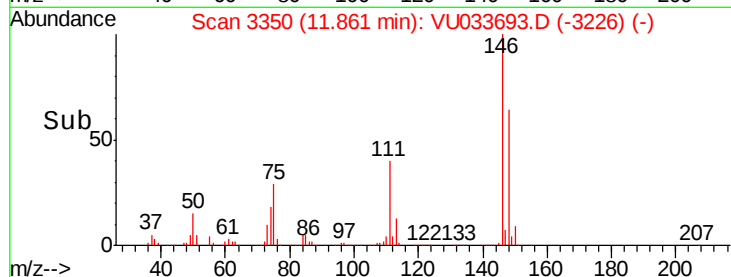
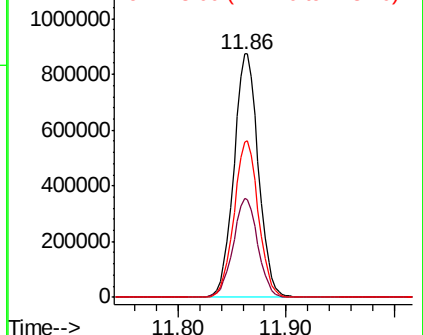
148 63.8 50.3 75.5



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: 189.305 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

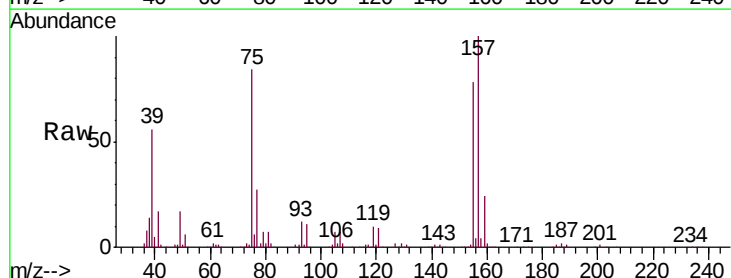
Tgt Ion: 75 Resp: 267035

Ion Ratio Lower Upper

75 100

155 92.9 72.7 109.1

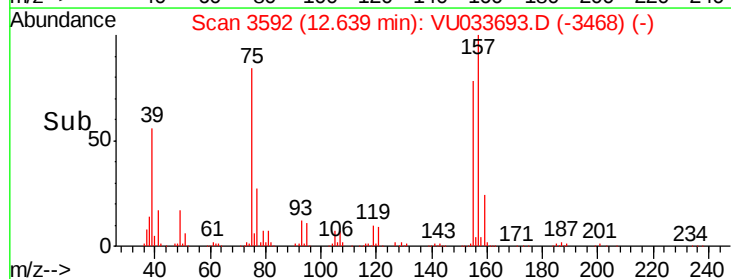
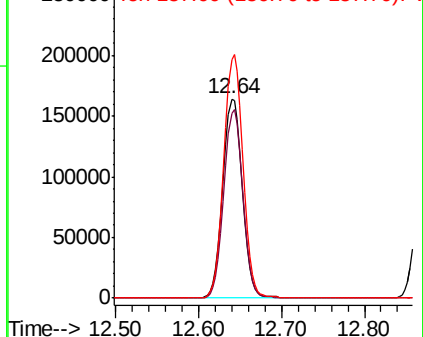
157 119.7 88.6 132.8

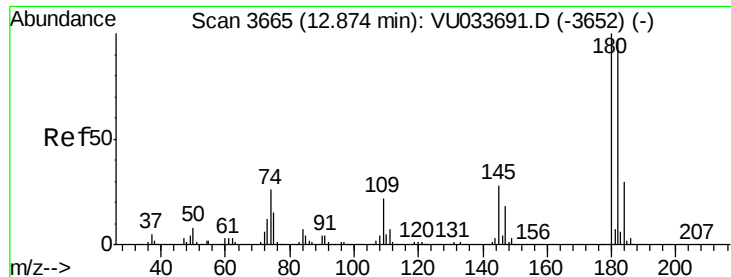


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

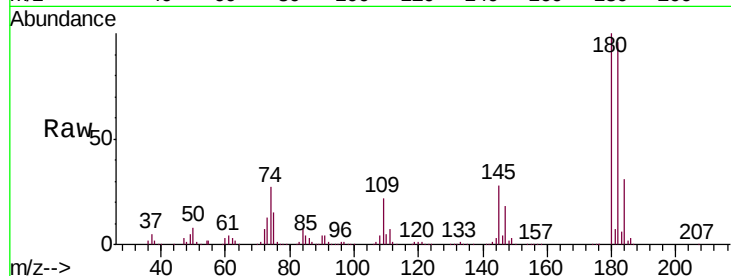




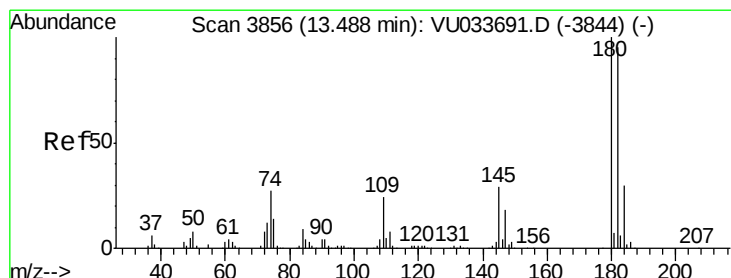
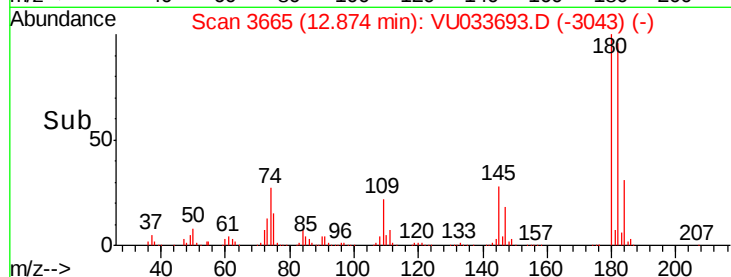
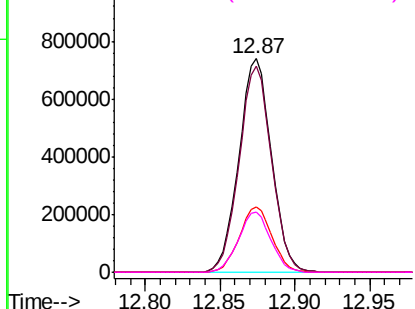
#67
 1,3,5-Trichlorobenzene
 Concen: 195.859 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

Tgt Ion:180 Resp: 1118978
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.5 114.7
 184 30.9 24.2 36.2
 145 28.1 22.3 33.5

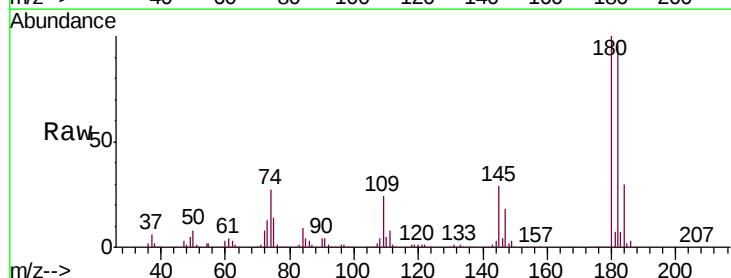


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

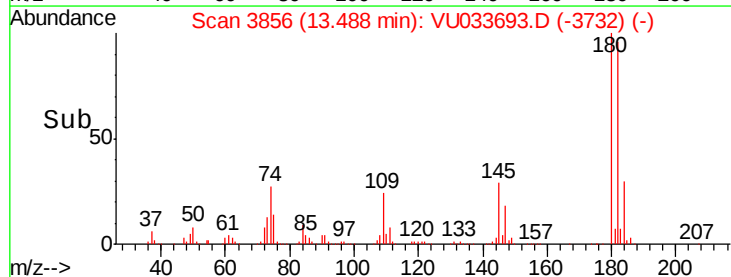
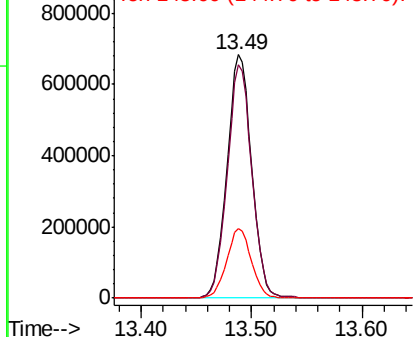


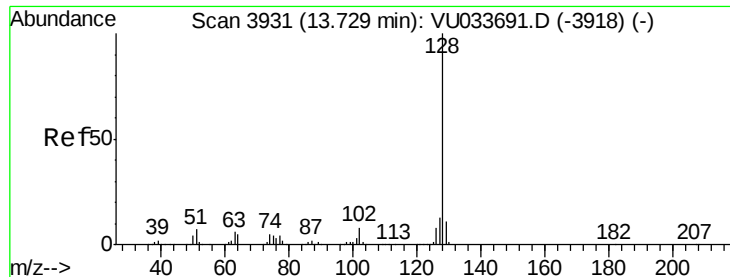
#68
 1,2,4-trichlorobenzene
 Concen: 219.888 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033693.D
 Acq: 09 Aug 2019 18:59

Tgt Ion:180 Resp: 1058603
 Ion Ratio Lower Upper
 180 100
 182 95.9 78.2 117.4
 145 28.7 23.5 35.3



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: 233.250 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

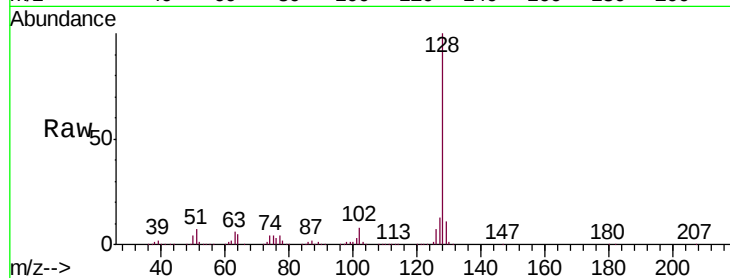
Tgt Ion:128 Resp: 3288241

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

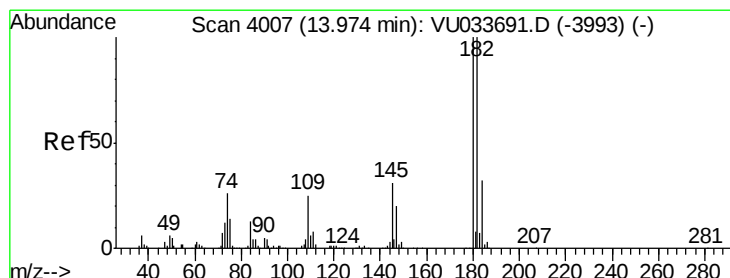
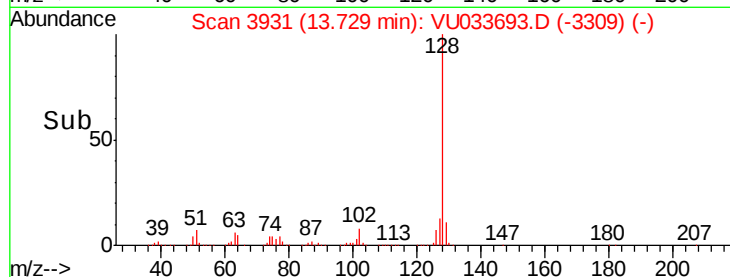
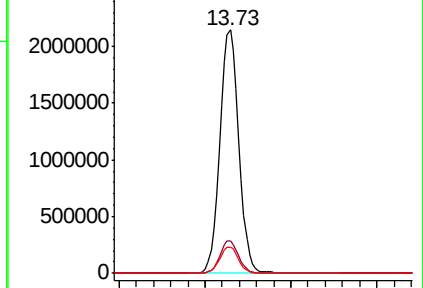
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 210.030 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033693.D

Acq: 09 Aug 2019 18:59

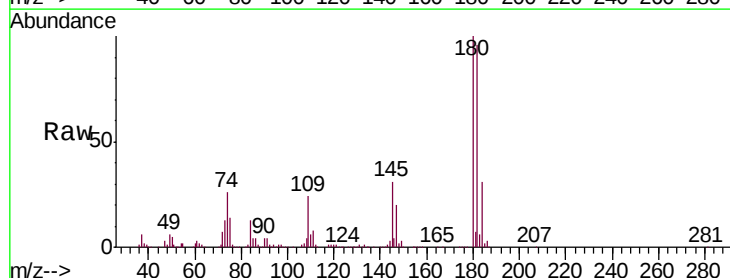
Tgt Ion:180 Resp: 1047961

Ion Ratio Lower Upper

180 100

182 96.3 78.5 117.7

145 30.6 24.6 37.0



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

