

Data File : VU033471.D
Acq On : 29 Jul 2019 13:19
Operator : JC/SP
Sample : VSTD20031
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

Quant Time: Jul 30 03:47:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 30 03:41:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	334556	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	345439	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	191400	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	601173	194.72	ug/L	0.00
7) Chloroethane-d5	1.65	69	486415	190.87	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.25	63	1117100	186.94	ug/L	0.00
21) 2-Butanone-d5	4.15	46	760961	418.66	ug/L	0.00
24) Chloroform-d	4.62	84	933240	200.26	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	567557	190.55	ug/L	0.00
32) Benzene-d6	5.31	84	1889671	197.08	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	585532	196.15	ug/L	0.00
41) Toluene-d8	7.55	98	1837439	201.89	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	305934	208.30	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	583587	455.35	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.41	84	912979	206.82	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.85	152	747540	208.90	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	640616	196.534	ug/L	99
3) Chloromethane	1.32	50	619695	188.116	ug/L	99
5) Vinyl chloride	1.39	62	724425	192.546	ug/L	99
6) Bromomethane	1.59	94	725298	306.863	ug/L	99
8) Chloroethane	1.67	64	433747	191.028	ug/L	100
9) Trichlorofluoromethane	1.86	101	950048	192.605	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	477024	185.714	ug/L	99
12) 1,1-Dichloroethene	2.26	96	477042	187.808	ug/L	98
13) Acetone	2.31	43	579567	343.194	ug/L	99
14) Carbon disulfide	2.45	76	1392299	197.581	ug/L	100
15) Methyl Acetate	2.59	43	530025	196.900	ug/L	100
16) Methylene chloride	2.68	84	509310	192.314	ug/L	100
17) trans-1,2-Dichloroethene	2.96	96	473603	202.790	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	1510166	210.356	ug/L	100
19) 1,1-Dichloroethane	3.42	63	882179	193.575	ug/L	99
20) cis-1,2-Dichloroethene	4.19	96	541128	204.783	ug/L	100
22) 2-Butanone	4.23	43	838678	404.250	ug/L	97
23) Bromochloromethane	4.52	128	275194	199.852	ug/L	96
25) Chloroform	4.64	83	919145	191.554	ug/L	98
27) 1,2-Dichloroethane	5.38	62	717745	192.631	ug/L	98
29) Cyclohexane	4.97	56	806222	208.173	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	791879	196.177	ug/L	99
31) Carbon tetrachloride	5.11	117	713987	198.433	ug/L	100
33) Benzene	5.36	78	2017360	194.926	ug/L	100
34) Trichloroethene	6.16	95	525243	199.042	ug/L	99
35) Methylcyclohexane	6.39	83	864854	215.638	ug/L	96
37) 1,2-Dichloropropane	6.41	63	539764	197.192	ug/L	100
38) Bromodichloromethane	6.73	83	706380	199.309	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	889959	208.889	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	1582110	427.702	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	2265359	199.395	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	805864	211.730	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	518361	198.350	ug/L	99
46) Tetrachloroethene	8.21	164	435348	207.311	ug/L	99
48) 2-Hexanone	8.35	43	1300292	428.075	ug/L	100
49) Dibromochloromethane	8.46	129	617439	208.711	ug/L	98
50) 1,2-Dibromoethane	8.57	107	579901	203.307	ug/L	99
51) Chlorobenzene	9.10	112	1462165	201.323	ug/L	99
52) Ethylbenzene	9.23	91	2541407	209.309	ug/L	99
53) m,p-Xylene	9.36	106	979474	209.267	ug/L	99
54) o-xylene	9.76	106	977215	216.001	ug/L	99
55) Styrene	9.77	104	1698219	216.607	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.44	83	932455	205.691	ug/L	98
59) Bromoform	9.94	173	493498	214.911	ug/L	98
60) 1,2,3-Trichloropropane	10.48	75	714699	192.215	ug/L	100
61) Isopropylbenzene	10.15	105	2519328	206.019	ug/L	99
62) 1,3,5-Trimethylbenzene	10.76	105	2209110	215.911	ug/L	100
63) 1,2,4-Trimethylbenzene	11.13	105	2200268	213.447	ug/L	100
64) 1,3-Dichlorobenzene	11.40	146	1224359	206.651	ug/L	98
65) 1,4-Dichlorobenzene	11.49	146	1226892	205.164	ug/L	99
67) 1,2-Dichlorobenzene	11.86	146	1221456	202.476	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.64	75	215493	204.382	ug/L	95
69) 1,3,5-Trichlorobenzene	12.87	180	948868	212.111	ug/L	99
70) 1,2,4-trichlorobenzene	13.49	180	868055	230.676	ug/L	98
71) Naphthalene	13.73	128	2629566	229.104	ug/L	100
72) 1,2,3-Trichlorobenzene	13.97	180	872463	213.920	ug/L	100

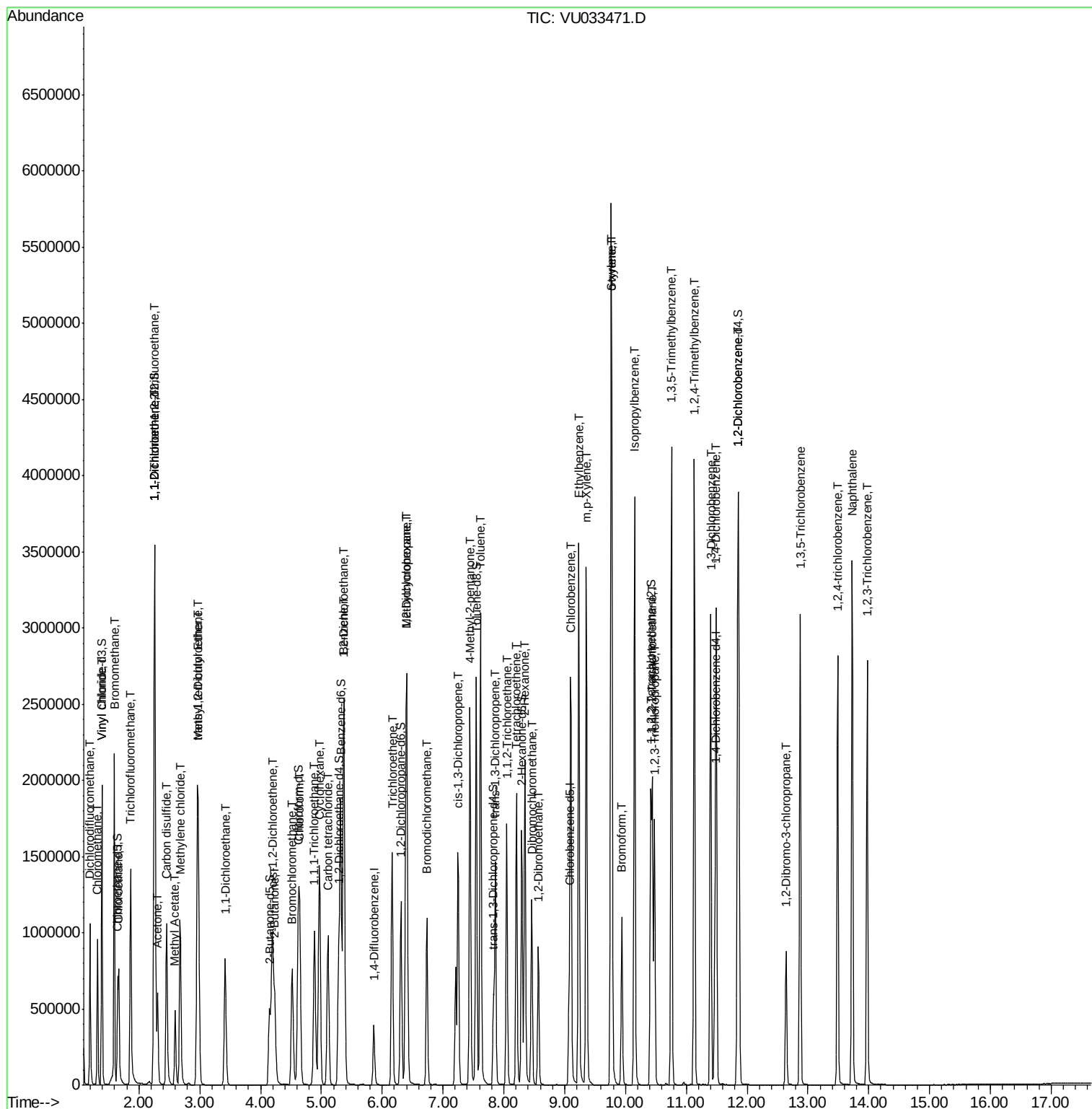
(#) = qualifier out of range (m) = manual integration (+) = signals summed

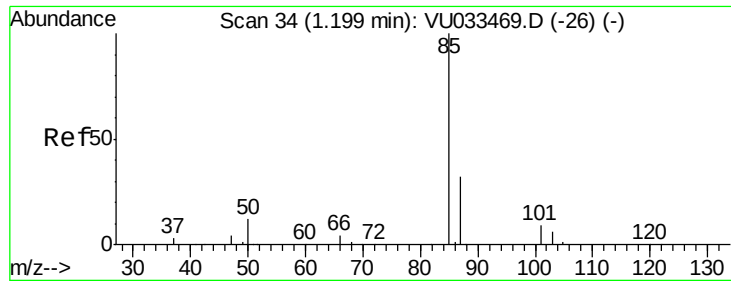
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#2

Dichlorodifluoromethane

Concen: 196.534 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

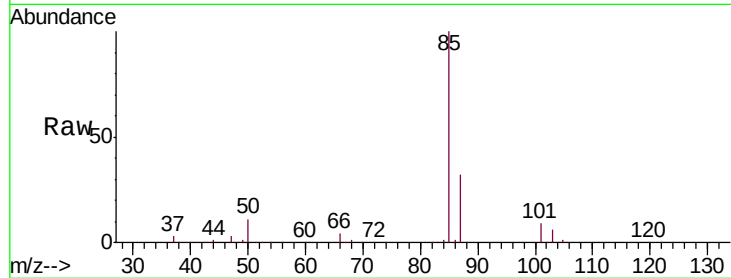
VSTD20031

Tgt Ion: 85 Resp: 640616

Ion Ratio Lower Upper

85 100

87 32.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033471.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033471.D (-1) (-)

1.20

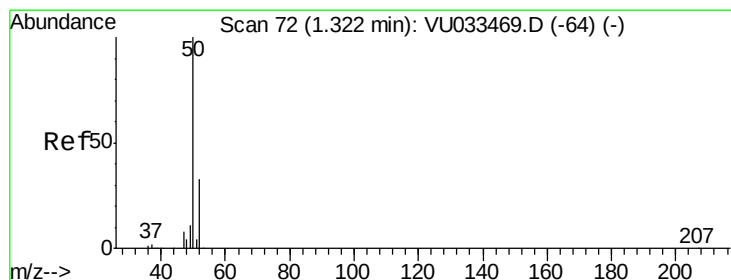
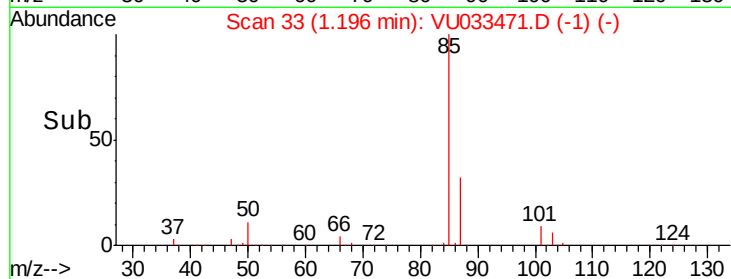
600000

400000

200000

0

Time-->



#3

Chloromethane

Concen: 188.116 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033471.D

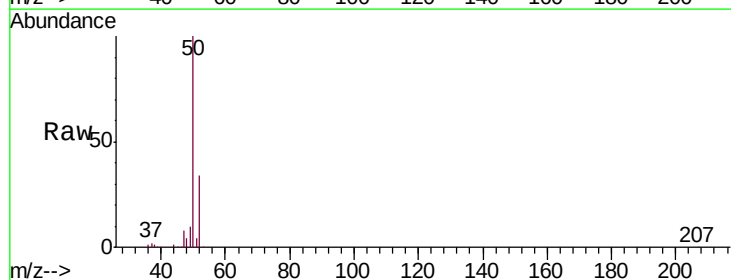
Acq: 29 Jul 2019 13:19

Tgt Ion: 50 Resp: 619695

Ion Ratio Lower Upper

50 100

52 33.6 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033471.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033471.D (-1) (-)

1.32

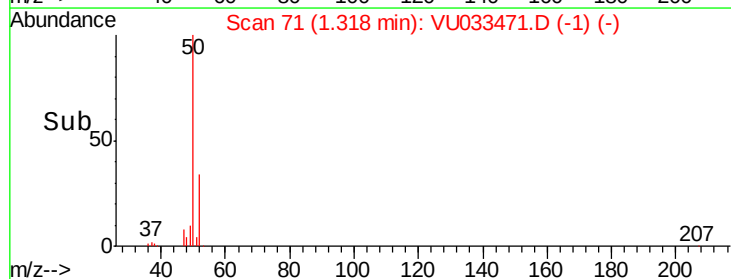
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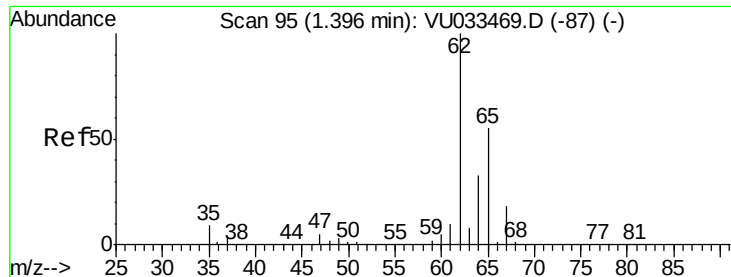
400000

200000

0

Time-->





#5

Vinyl chloride

Concen: 192.546 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

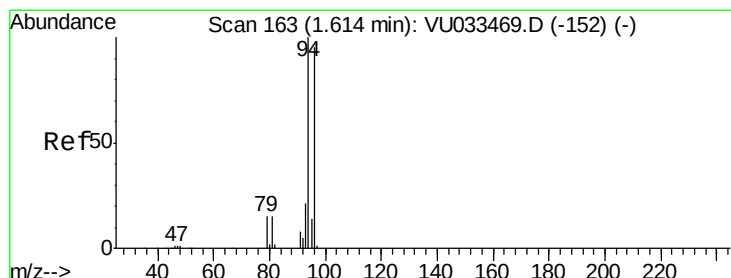
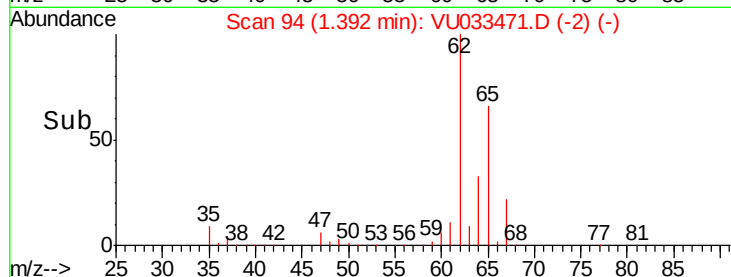
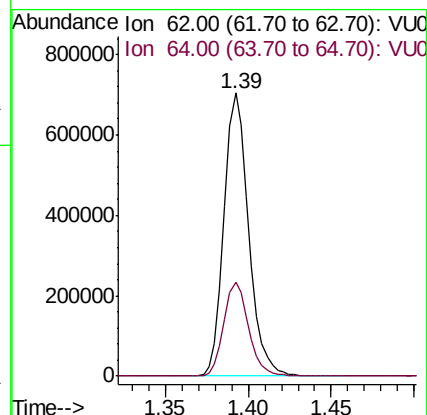
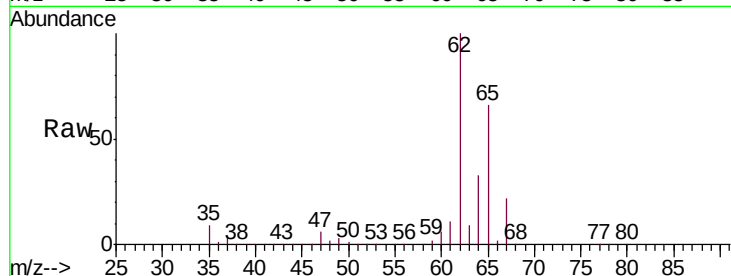
VSTD20031

Tgt Ion: 62 Resp: 724425

Ion Ratio Lower Upper

62 100

64 33.2 23.0 42.6



#6

Bromomethane

Concen: 306.863 ug/L

RT: 1.59 min Scan# 157

Delta R.T. -0.02 min

Lab File: VU033471.D

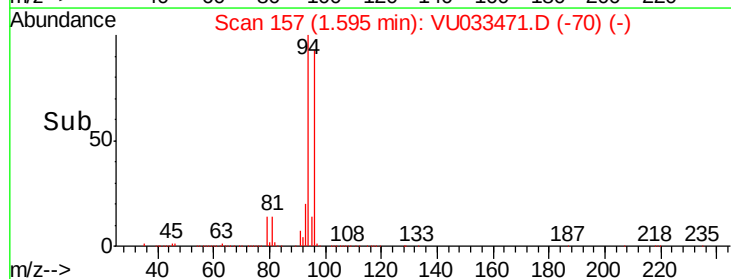
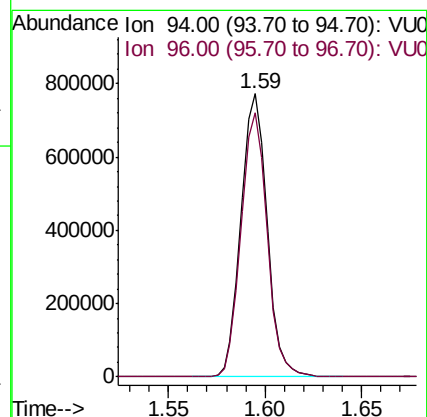
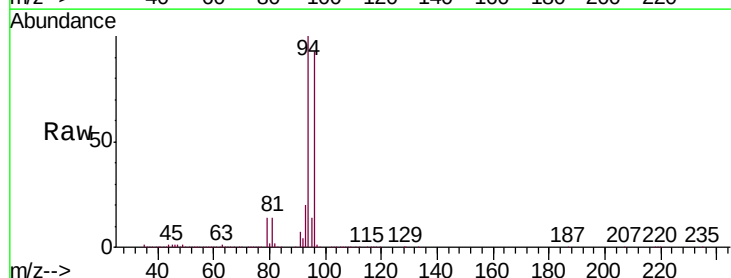
Acq: 29 Jul 2019 13:19

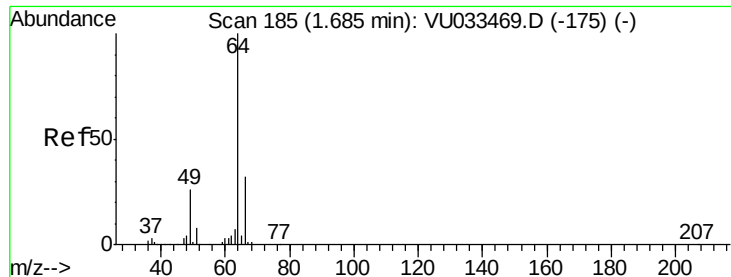
Tgt Ion: 94 Resp: 725298

Ion Ratio Lower Upper

94 100

96 93.3 66.2 123.0





#8

Chloroethane

Concen: 191.028 ug/L

RT: 1.67 min Scan# 181

Delta R.T. -0.01 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

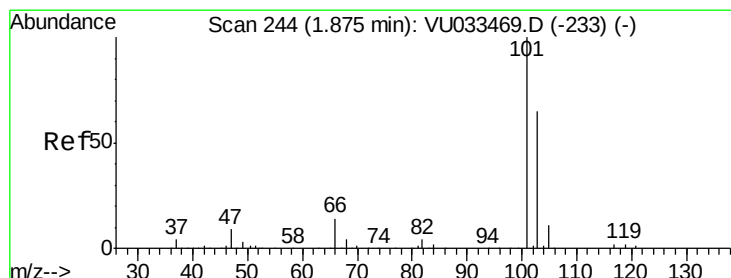
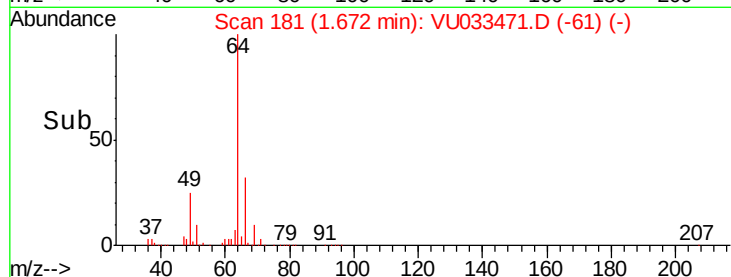
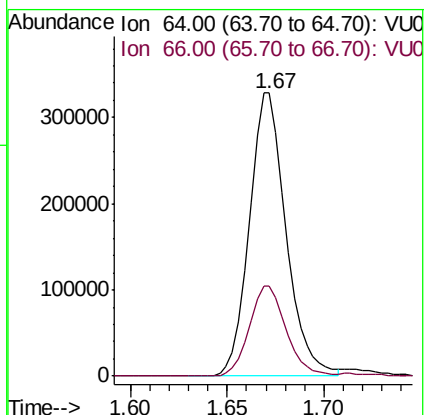
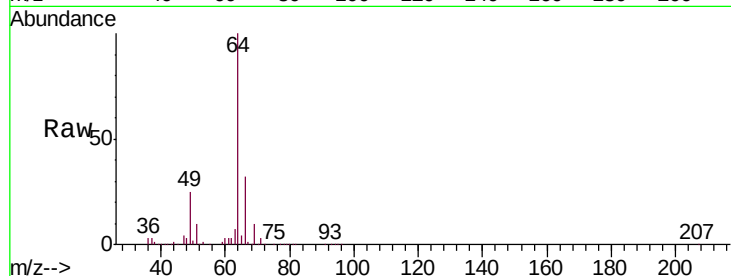
VSTD20031

Tgt Ion: 64 Resp: 433747

Ion Ratio Lower Upper

64 100

66 31.8 22.1 41.1



#9

Trichlorofluoromethane

Concen: 192.605 ug/L

RT: 1.86 min Scan# 241

Delta R.T. -0.01 min

Lab File: VU033471.D

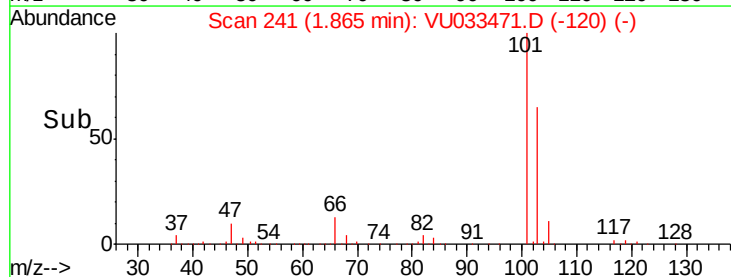
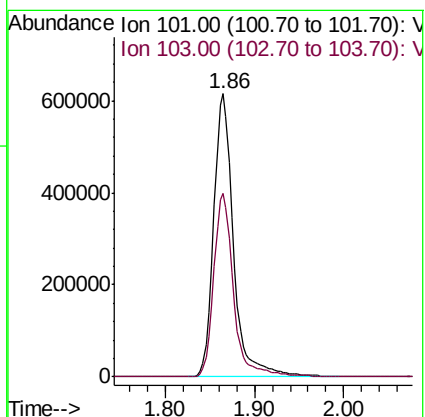
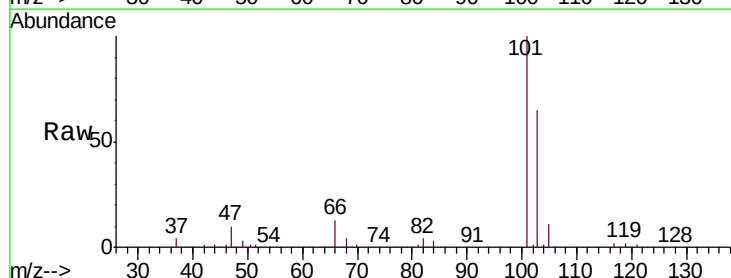
Acq: 29 Jul 2019 13:19

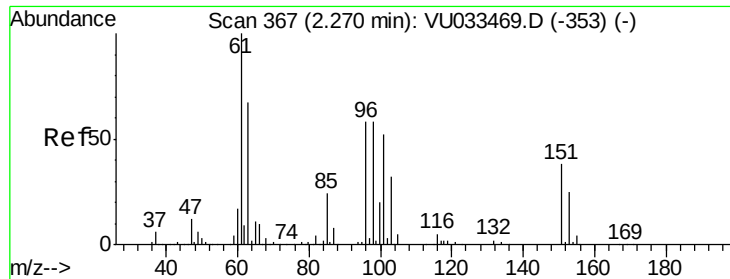
Tgt Ion: 101 Resp: 950048

Ion Ratio Lower Upper

101 100

103 64.5 51.2 76.8





#10

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

Concen: 185.714 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD20031

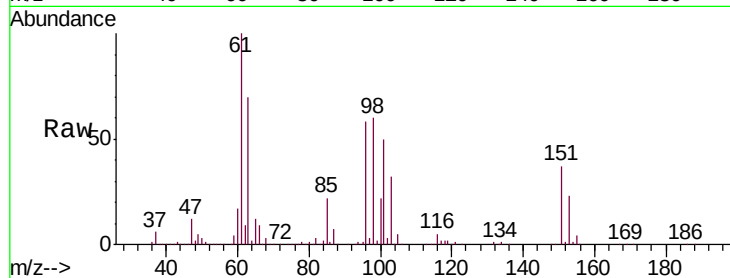
Tgt Ion:101 Resp: 477024

Ion Ratio Lower Upper

101 100

85 44.5 35.8 53.8

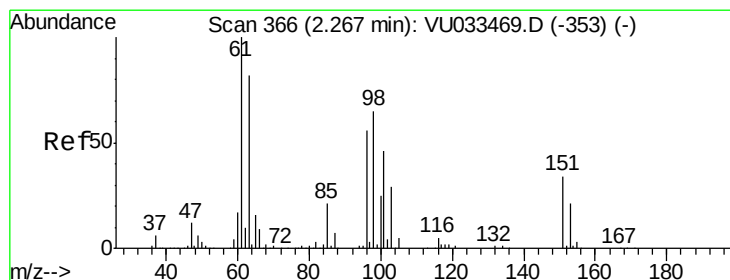
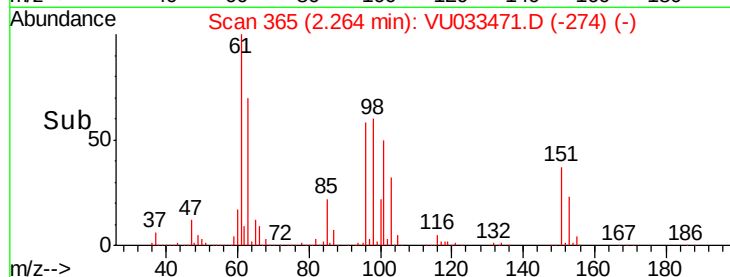
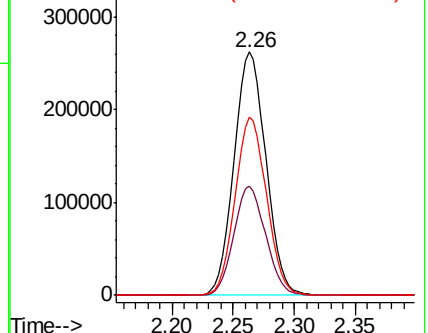
151 72.2 58.6 87.8



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: 187.808 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

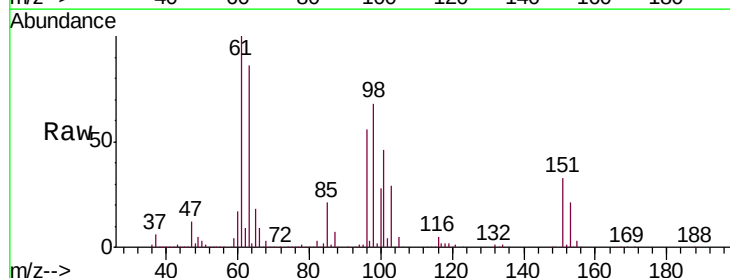
Tgt Ion: 96 Resp: 477042

Ion Ratio Lower Upper

96 100

61 177.6 124.1 230.5

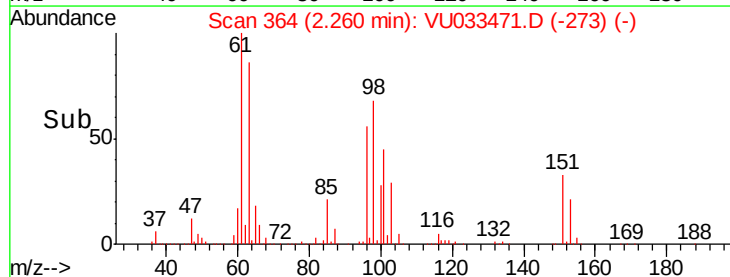
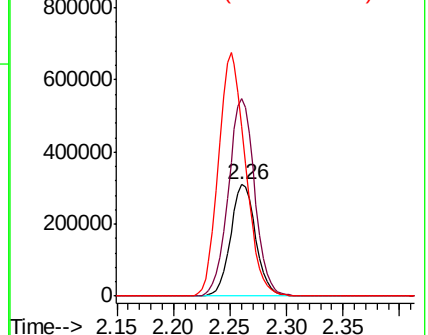
63 151.9 101.8 189.2

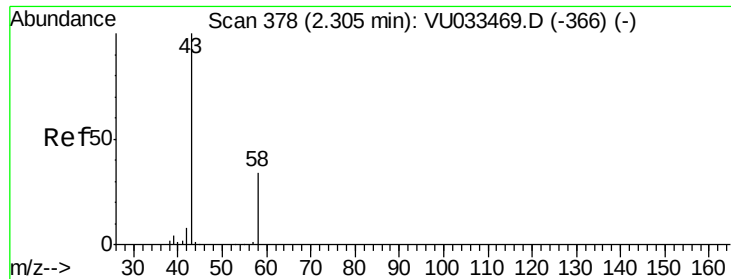


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

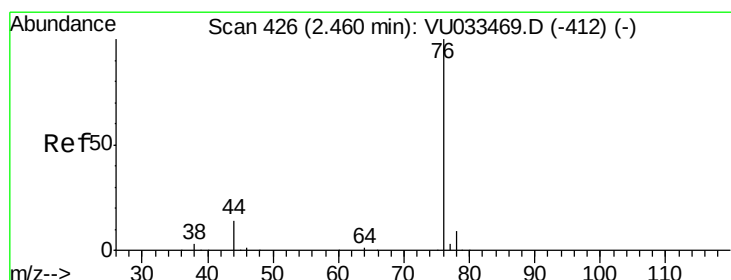
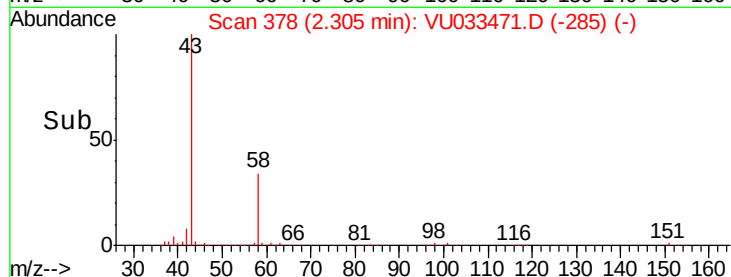
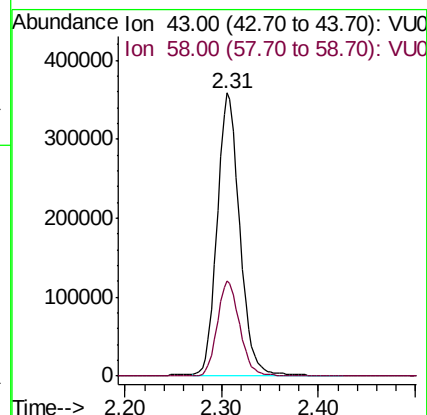
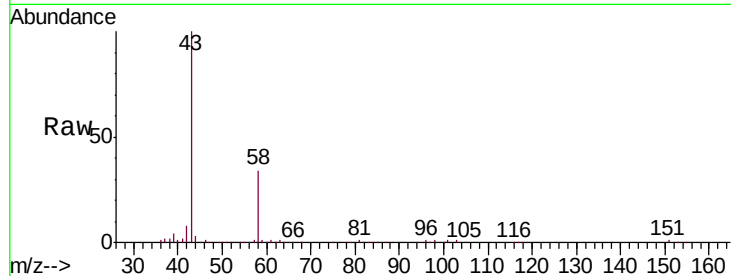




#13
Acetone
Concen: 343.194 ug/L
RT: 2.31 min Scan# 378
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

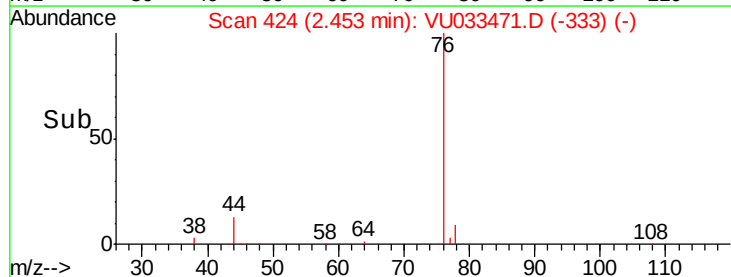
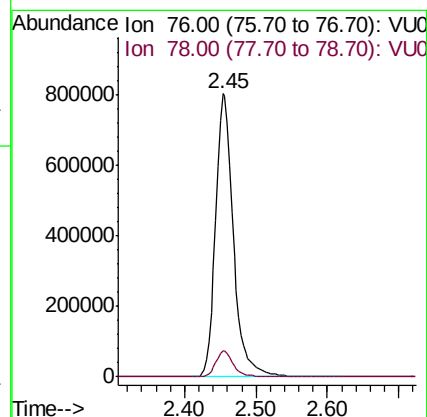
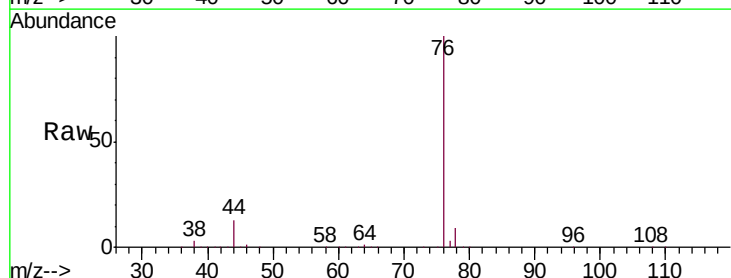
Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

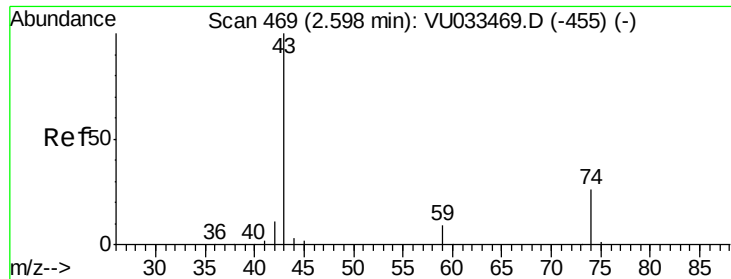
Tgt Ion: 43 Resp: 579567
Ion Ratio Lower Upper
43 100
58 33.2 0.0 67.4



#14
Carbon disulfide
Concen: 197.581 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.01 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Tgt Ion: 76 Resp: 1392299
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8

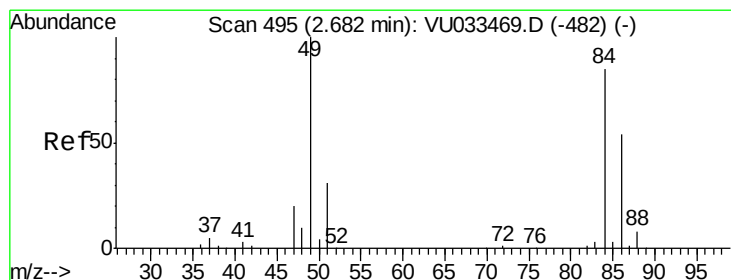
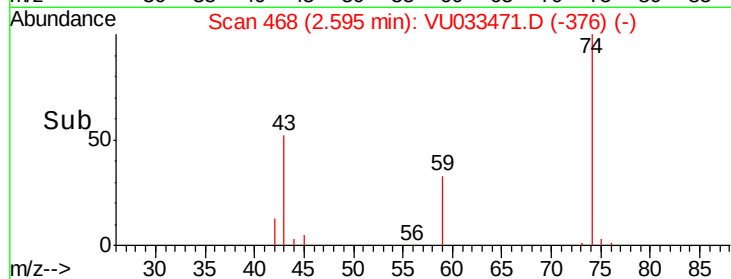
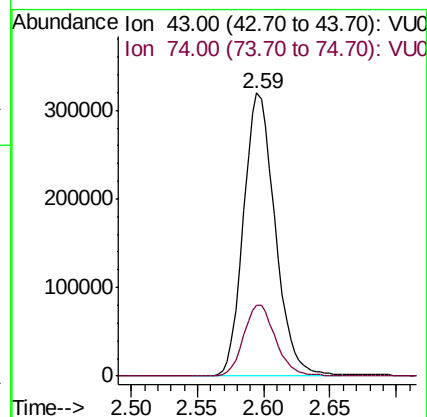
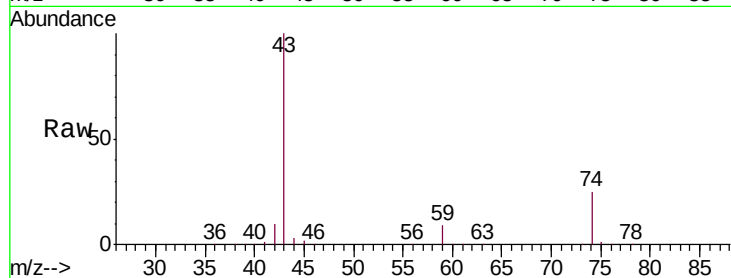




#15
Methyl Acetate
Concen: 196.900 ug/L
RT: 2.59 min Scan# 468
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

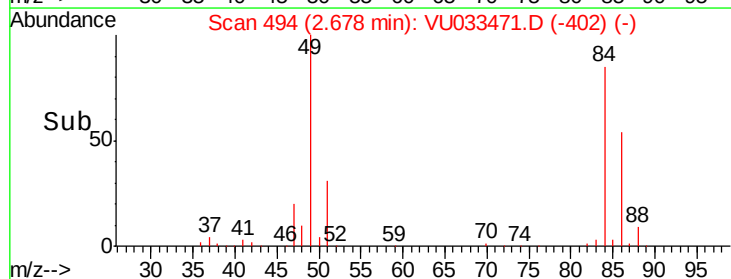
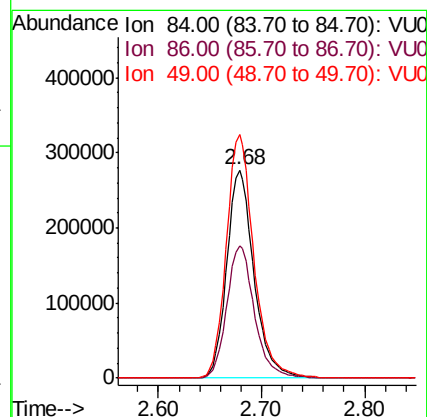
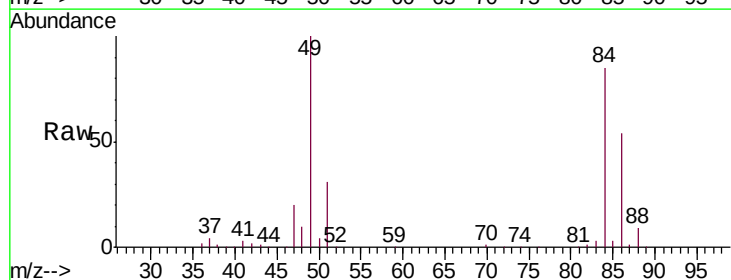
Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

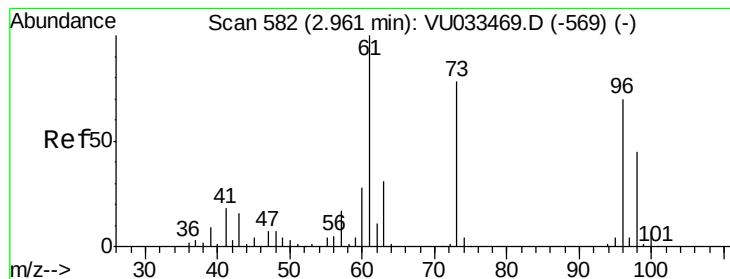
Tgt Ion: 43 Resp: 530025
Ion Ratio Lower Upper
43 100
74 25.7 20.5 30.7



#16
Methylene chloride
Concen: 192.314 ug/L
RT: 2.68 min Scan# 494
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Tgt Ion: 84 Resp: 509310
Ion Ratio Lower Upper
84 100
86 63.7 44.2 82.0
49 117.2 82.3 152.8





#17

trans-1,2-Dichloroethene

Concen: 202.790 ug/L

RT: 2.96 min Scan# 581

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampled :

VSTD20031

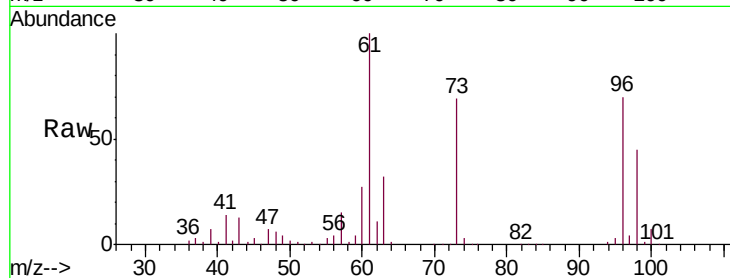
Tgt Ion: 96 Resp: 473603

Ion Ratio Lower Upper

96 100

61 142.2 100.3 186.3

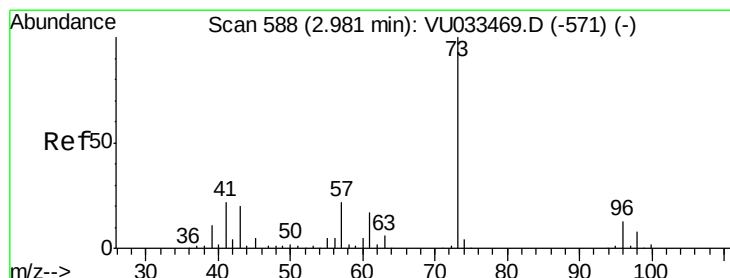
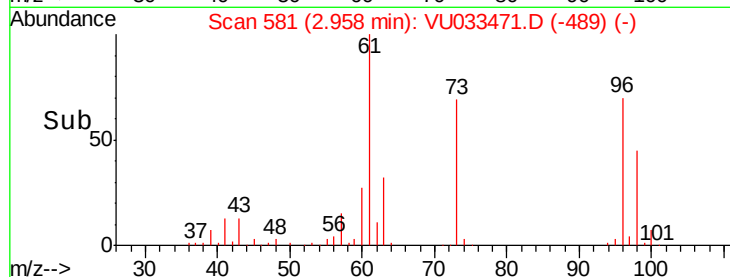
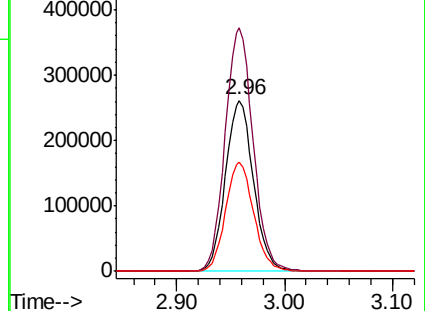
98 63.5 45.1 83.9



Abundance Ion 96.00 (95.70 to 96.70): VU033469.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU033469.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU033469.D (-569) (-)



#18

Methyl tert-butyl Ether

Concen: 210.356 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

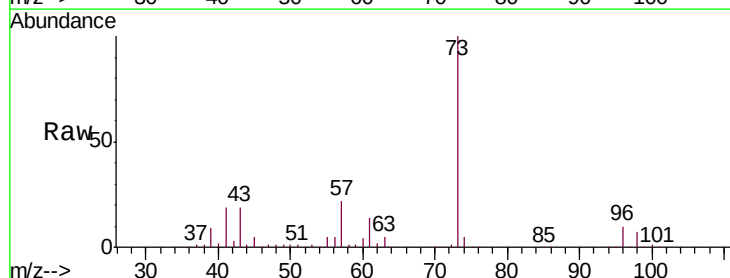
Tgt Ion: 73 Resp: 1510166

Ion Ratio Lower Upper

73 100

43 19.0 15.3 22.9

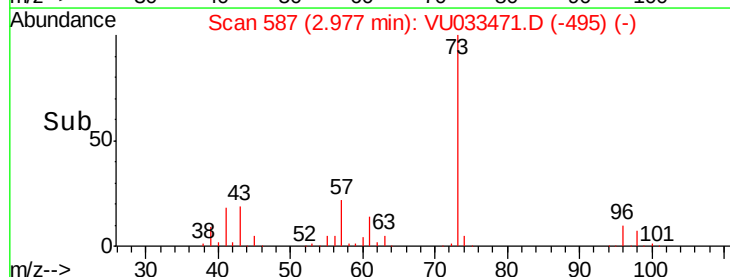
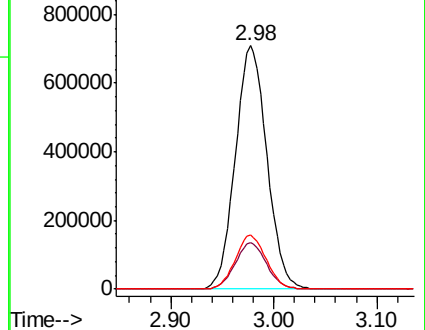
57 21.9 17.7 26.5

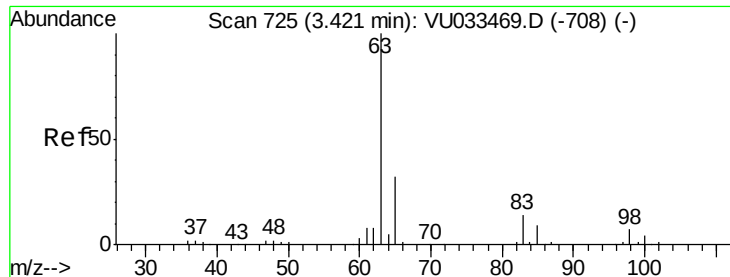


Abundance Ion 73.00 (72.70 to 73.70): VU033469.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033469.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033469.D (-571) (-)

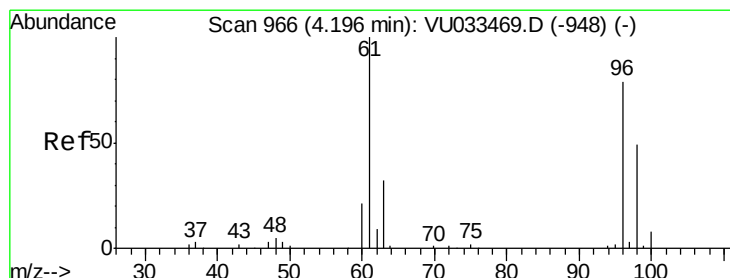
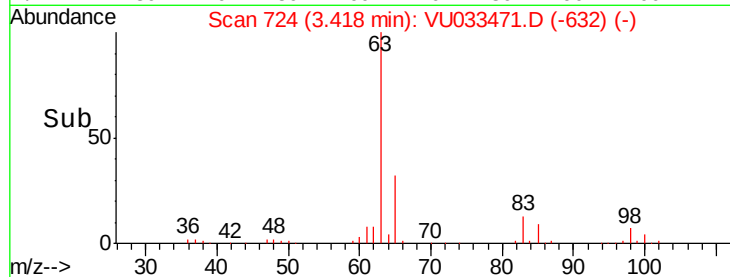
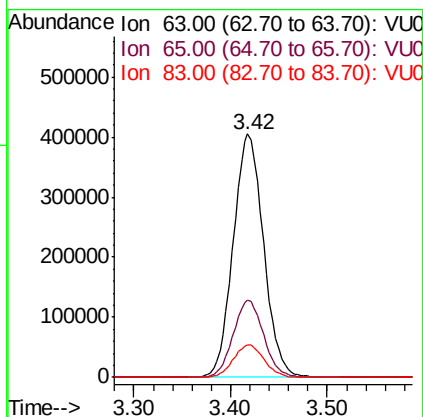
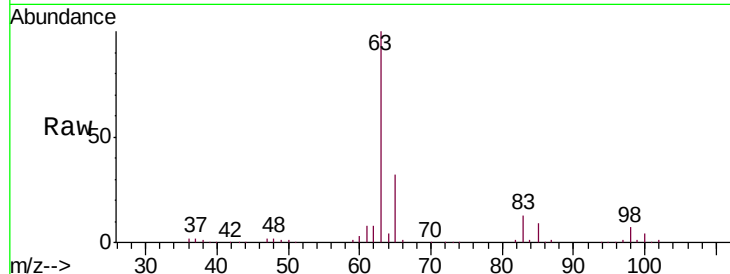




#19
 1,1-Dichloroethane
 Concen: 193.575 ug/L
 RT: 3.42 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

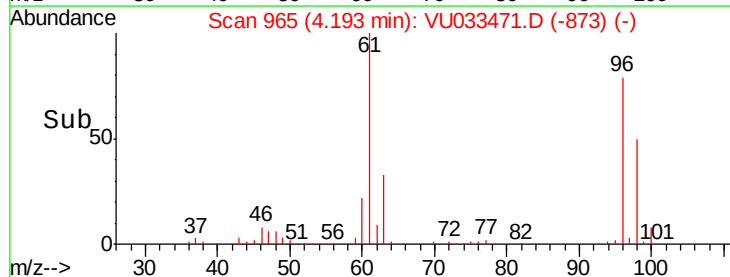
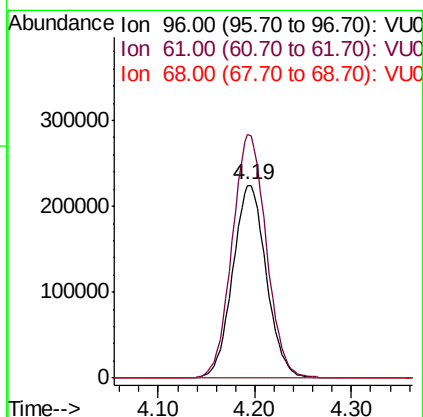
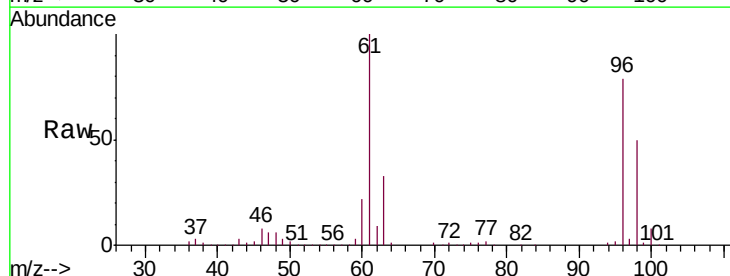
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20031

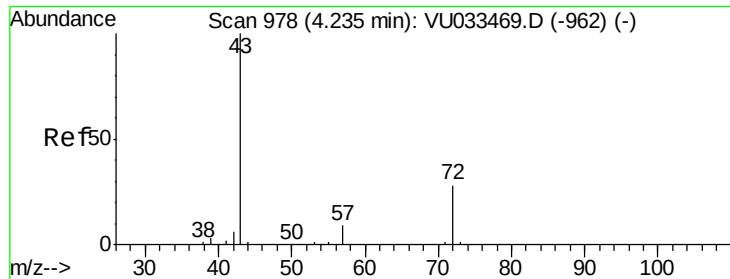
Tgt Ion: 63 Resp: 882179
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.7 42.1
 83 13.4 9.4 17.6



#20
 cis-1,2-Dichloroethene
 Concen: 204.783 ug/L
 RT: 4.19 min Scan# 965
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Tgt Ion: 96 Resp: 541128
 Ion Ratio Lower Upper
 96 100
 61 126.5 88.9 165.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 404.250 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

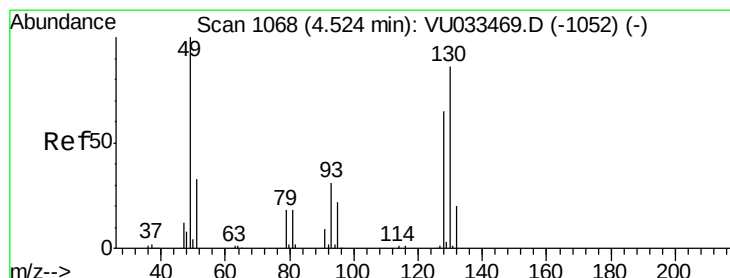
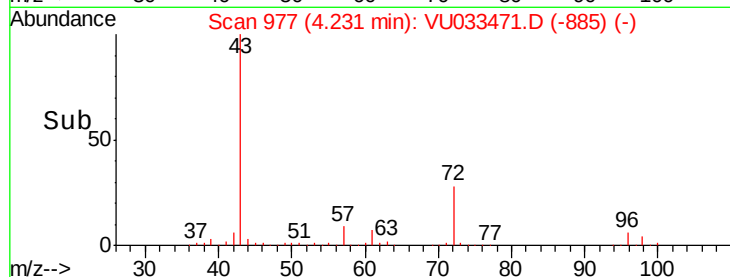
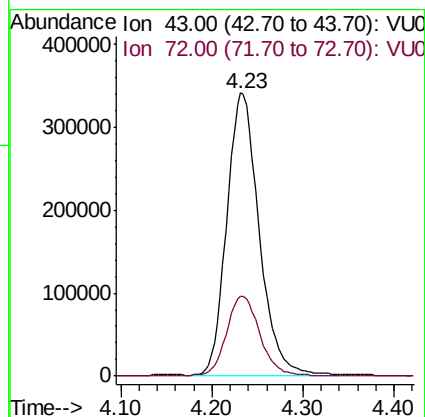
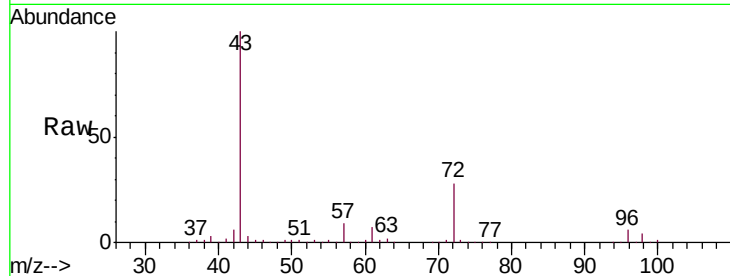
VSTD20031

Tgt Ion: 43 Resp: 838678

Ion Ratio Lower Upper

43 100

72 29.6 14.1 42.3



#23

Bromochloromethane

Concen: 199.852 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Tgt Ion: 128 Resp: 275194

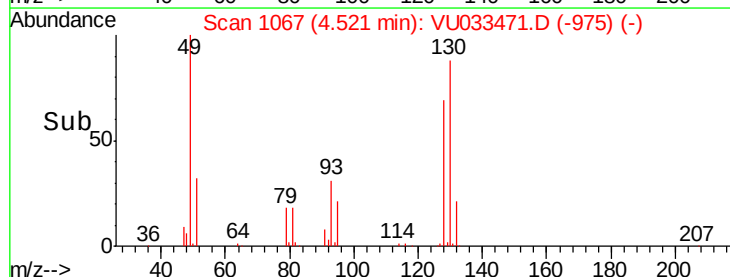
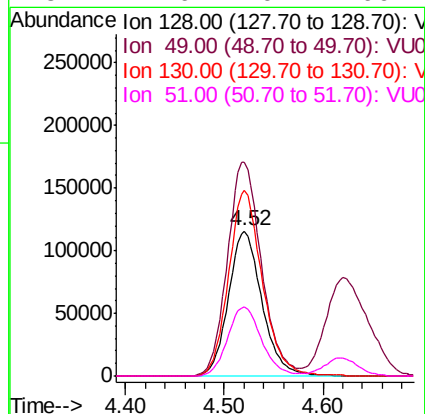
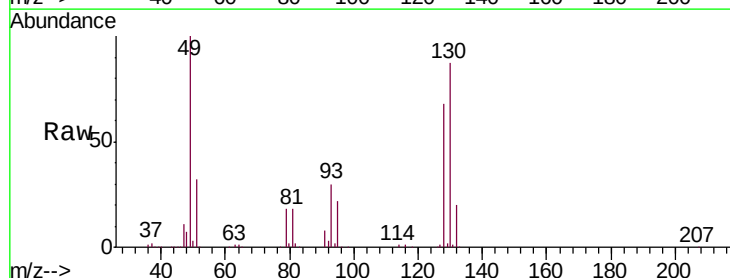
Ion Ratio Lower Upper

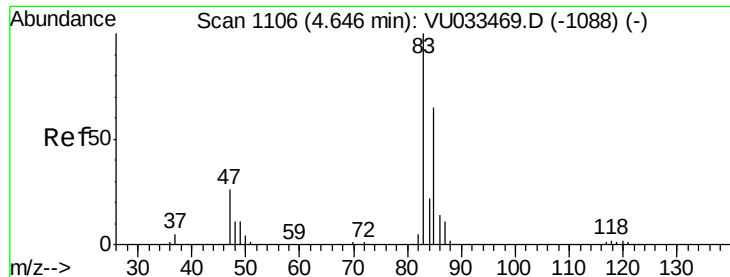
128 100

49 147.5 108.0 200.6

130 128.2 92.9 172.5

51 47.6 40.2 60.4

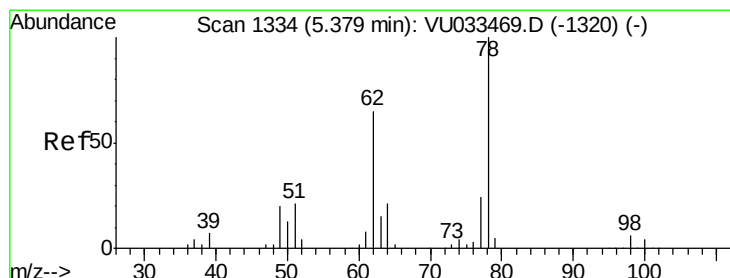
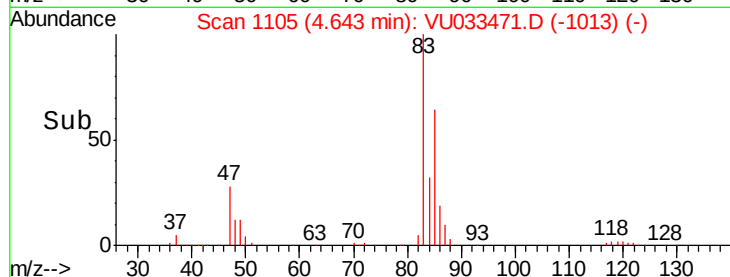
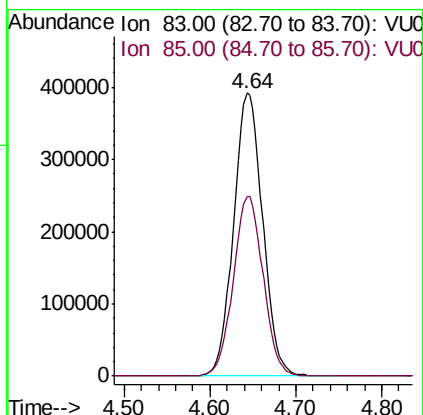
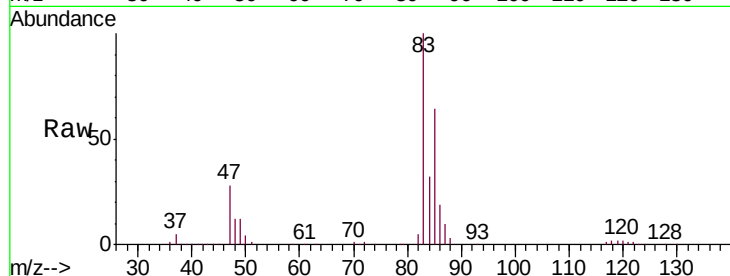




#25
Chloroform
Concen: 191.554 ug/L
RT: 4.64 min Scan# 1105
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

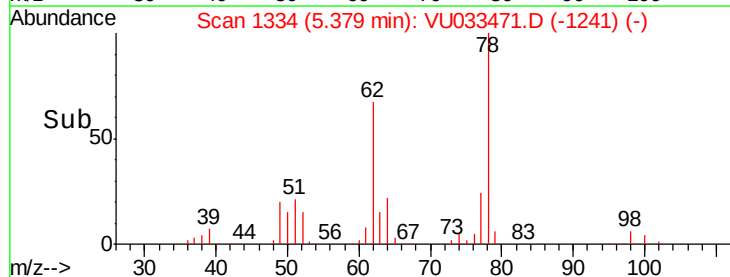
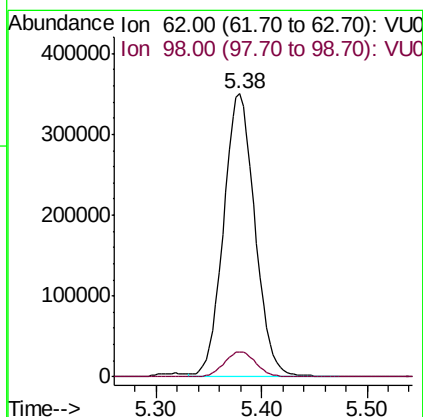
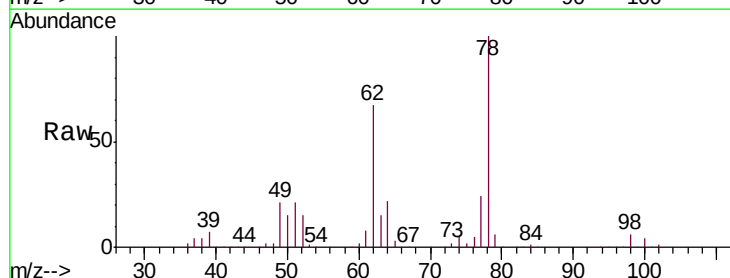
Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

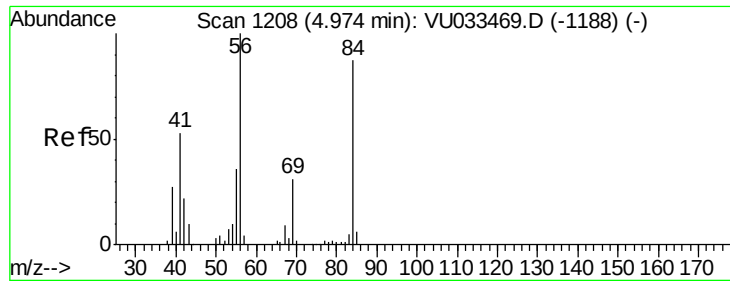
Tgt Ion: 83 Resp: 919145
Ion Ratio Lower Upper
83 100
85 63.5 45.6 84.8



#27
1,2-Dichloroethane
Concen: 192.631 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Tgt Ion: 62 Resp: 717745
Ion Ratio Lower Upper
62 100
98 9.0 6.7 10.1

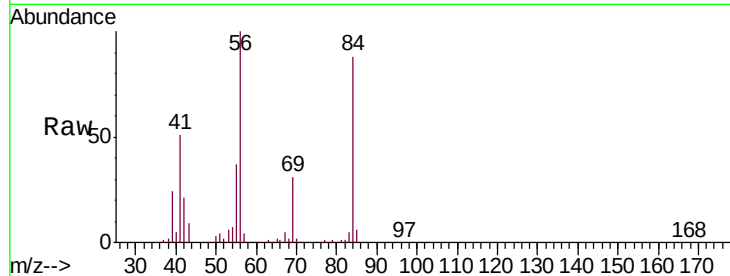




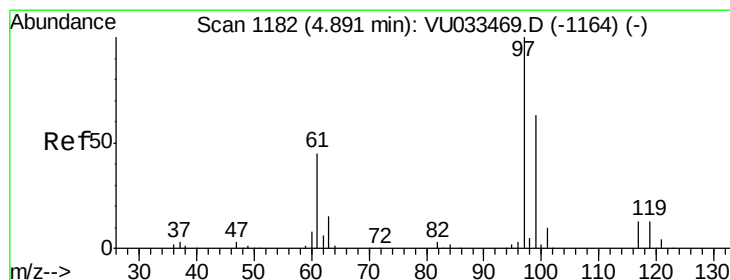
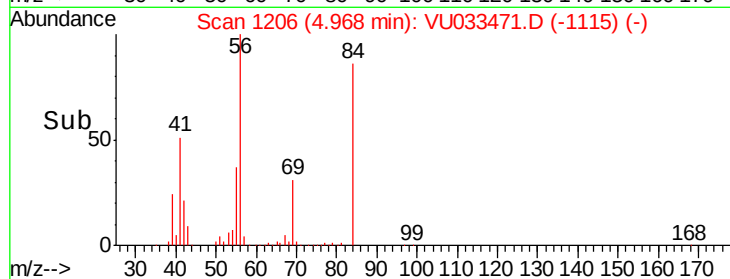
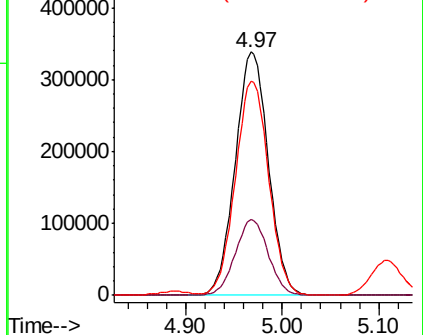
#29
Cyclohexane
Concen: 208.173 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.01 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

Tgt Ion: 56 Resp: 806222
Ion Ratio Lower Upper
56 100
69 31.0 25.3 37.9
84 88.6 69.6 104.4

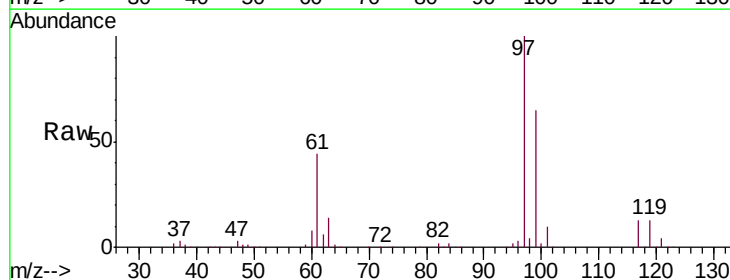


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

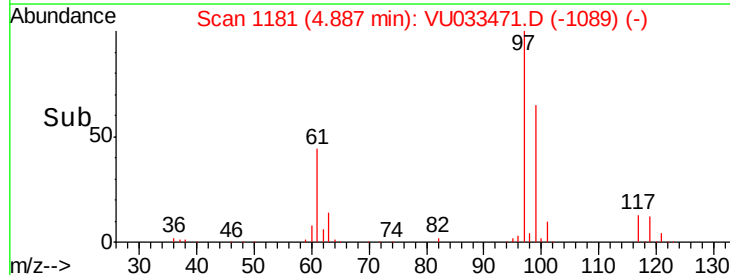
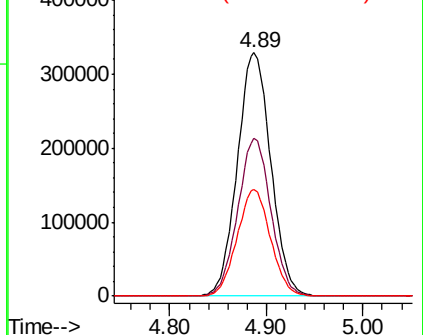


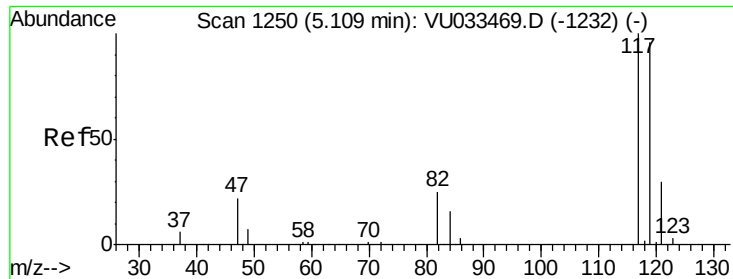
#30
1,1,1-Trichloroethane
Concen: 196.177 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Tgt Ion: 97 Resp: 791879
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 43.8 36.2 54.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

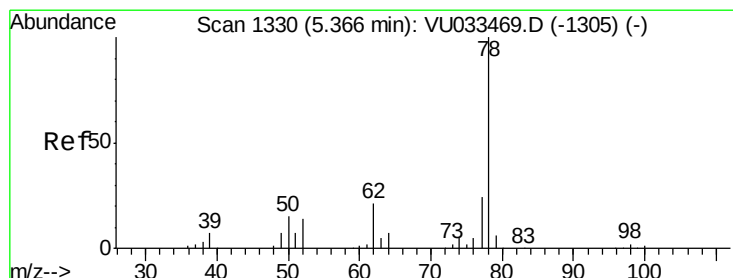
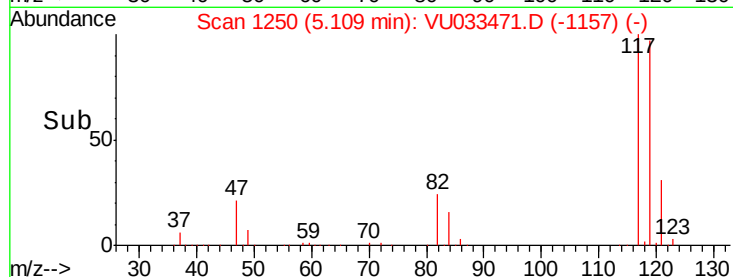
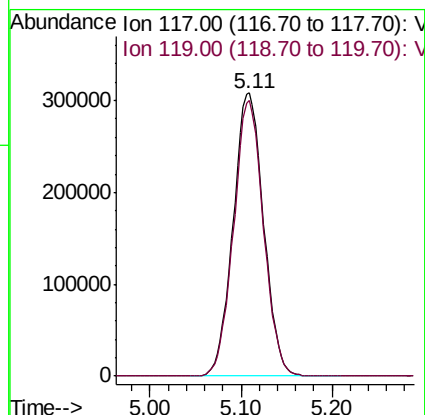
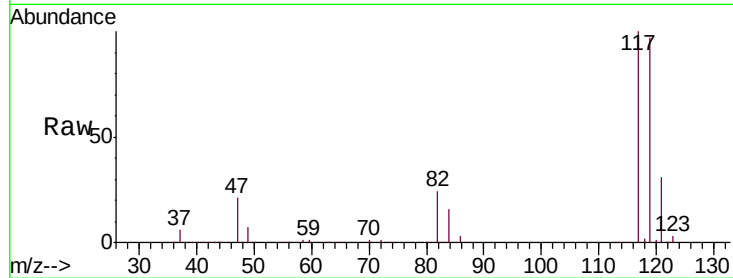




#31
Carbon tetrachloride
Concen: 198.433 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

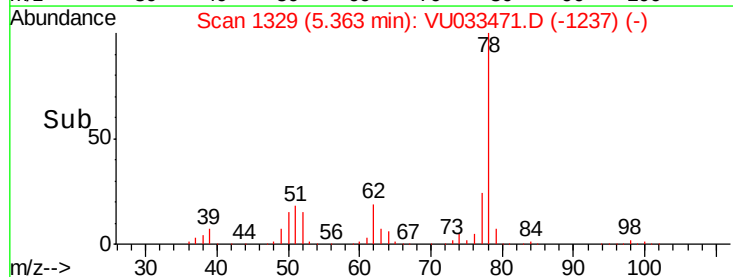
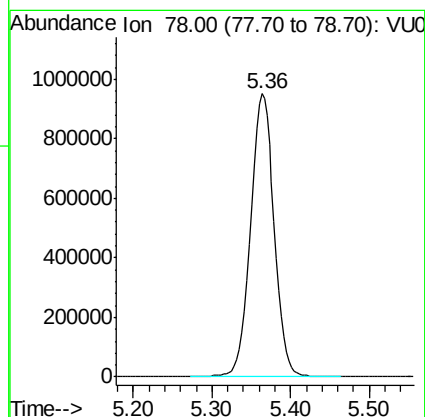
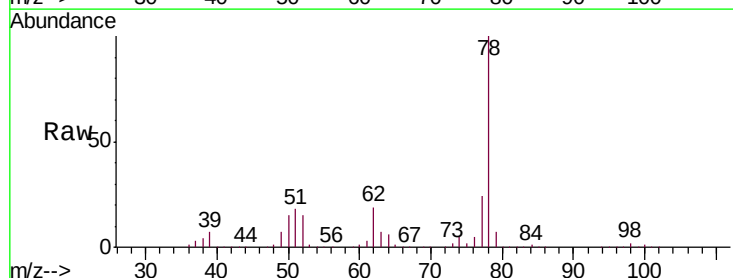
Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

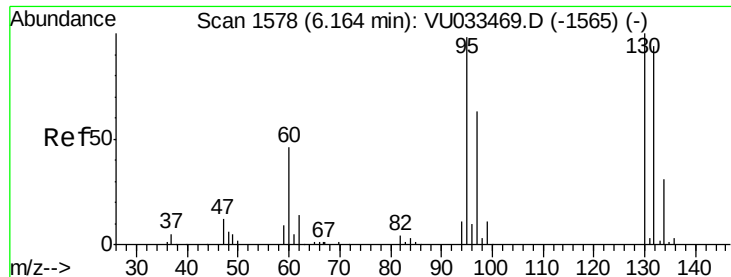
Tgt Ion:117 Resp: 713987
Ion Ratio Lower Upper
117 100
119 95.8 76.8 115.2



#33
Benzene
Concen: 194.926 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Tgt Ion: 78 Resp: 2017360





#34

Trichloroethene

Concen: 199.042 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD20031

Tgt Ion: 95 Resp: 525243

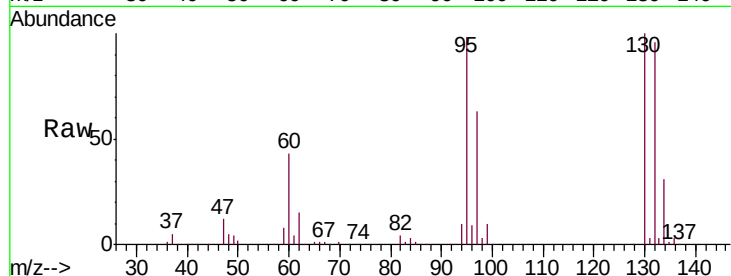
Ion Ratio Lower Upper

95 100

97 64.1 45.4 84.2

132 97.6 67.1 124.5

130 101.7 71.4 132.6



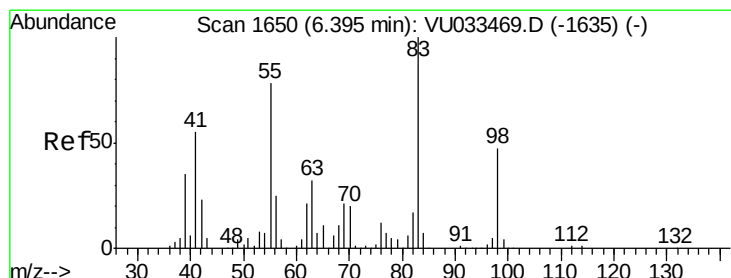
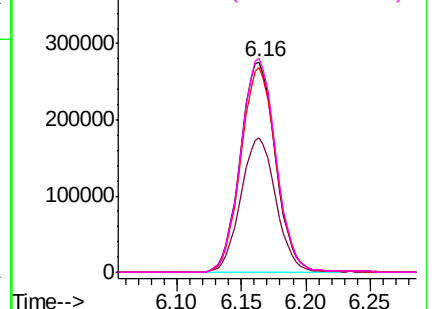
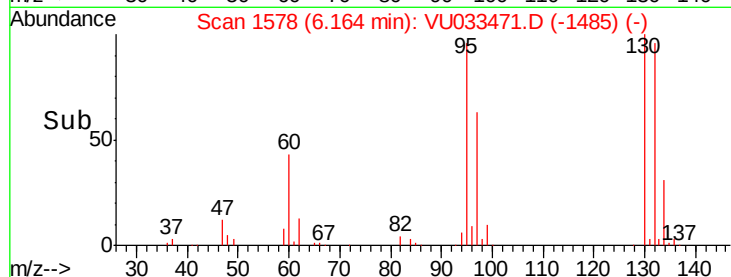
Abundance

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: 215.638 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

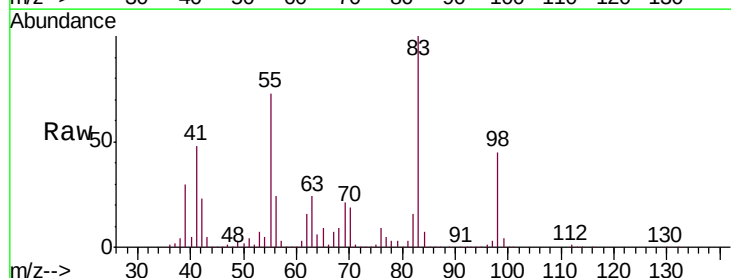
Tgt Ion: 83 Resp: 864854

Ion Ratio Lower Upper

83 100

55 73.7 62.4 93.6

98 45.3 37.3 55.9

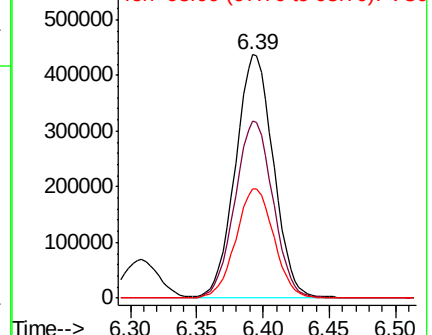
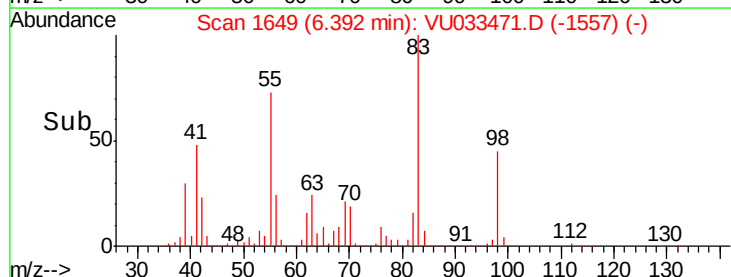


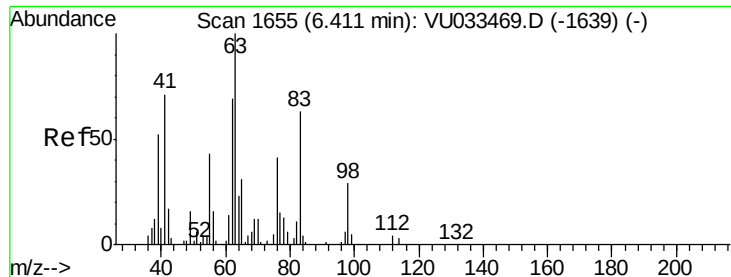
Abundance

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: 197.192 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

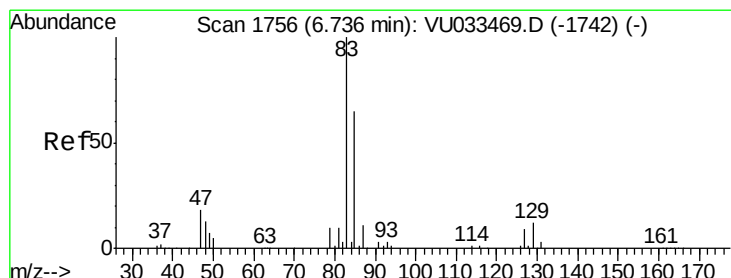
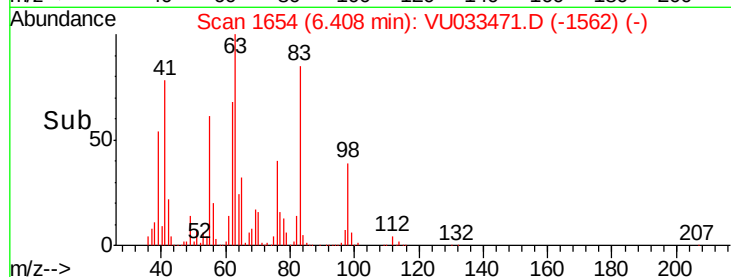
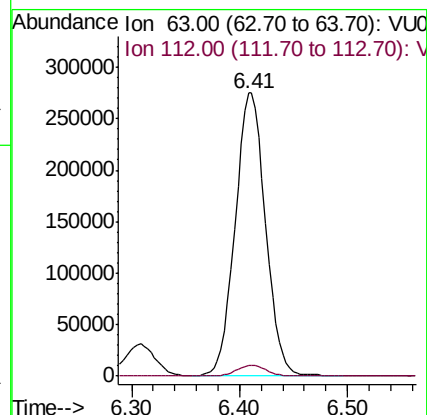
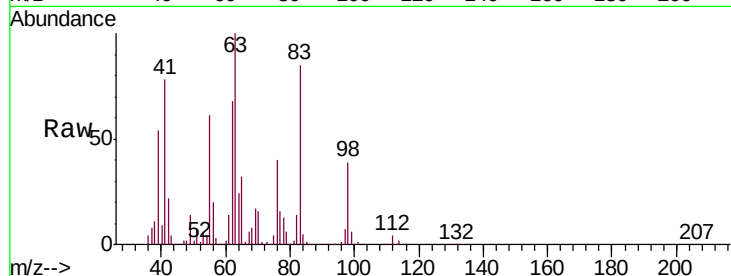
VSTD20031

Tgt Ion: 63 Resp: 539764

Ion Ratio Lower Upper

63 100

112 3.8 3.1 4.7



#38

Bromodichloromethane

Concen: 199.309 ug/L

RT: 6.73 min Scan# 1755

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

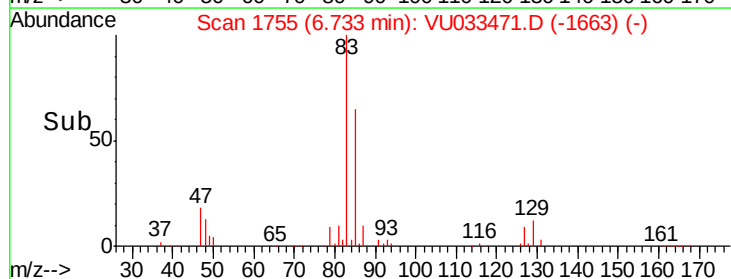
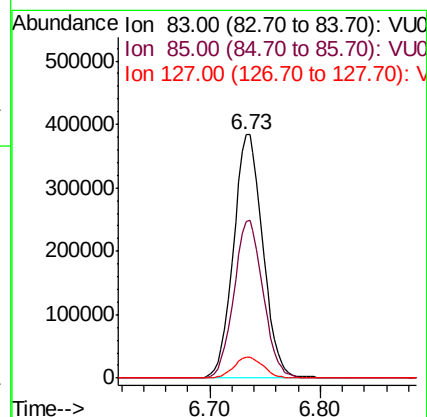
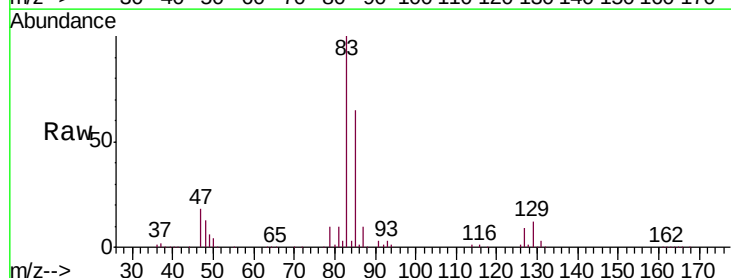
Tgt Ion: 83 Resp: 706380

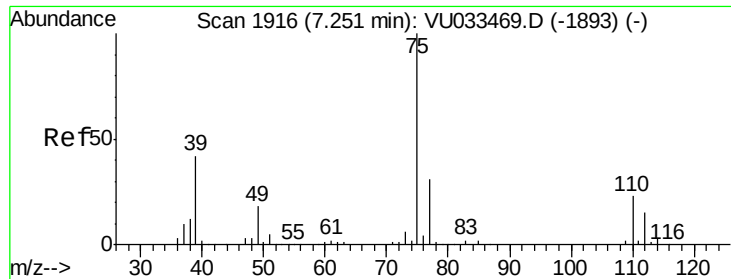
Ion Ratio Lower Upper

83 100

85 64.6 45.4 84.4

127 8.7 7.3 10.9

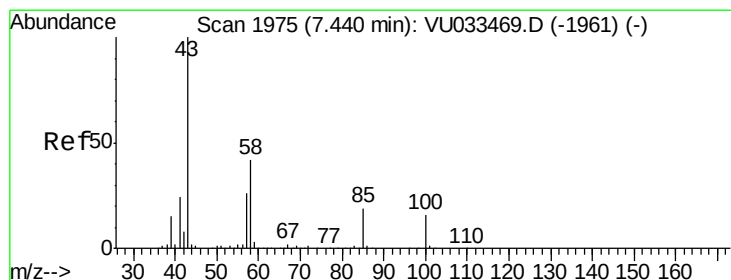
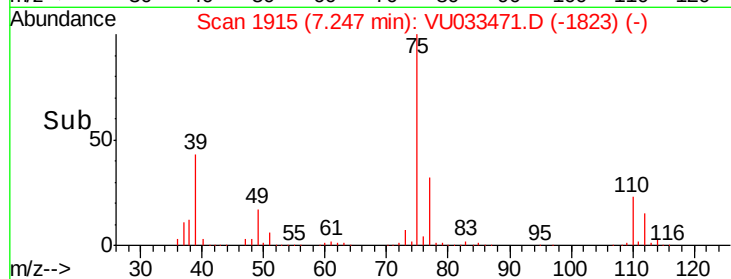
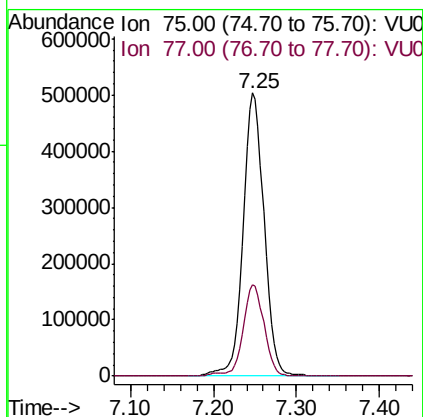
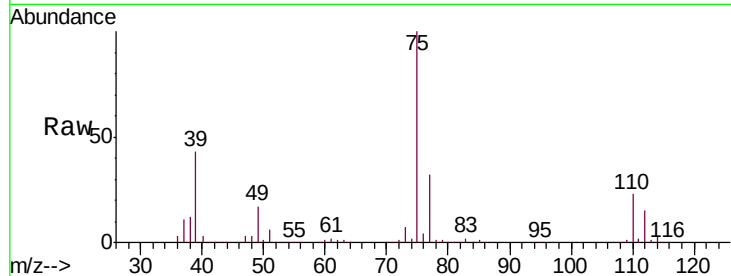




#39
 cis-1,3-Dichloropropene
 Concen: 208.889 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

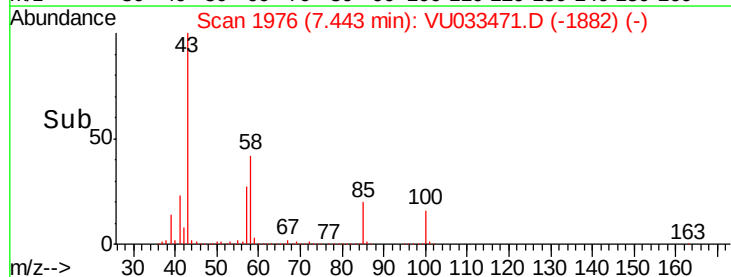
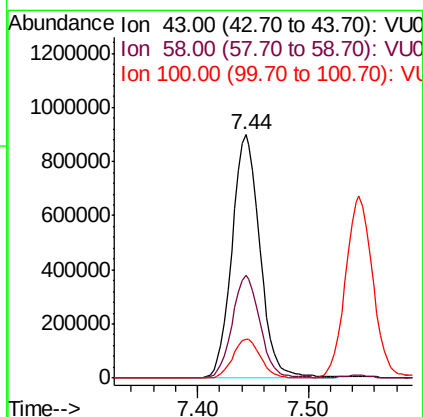
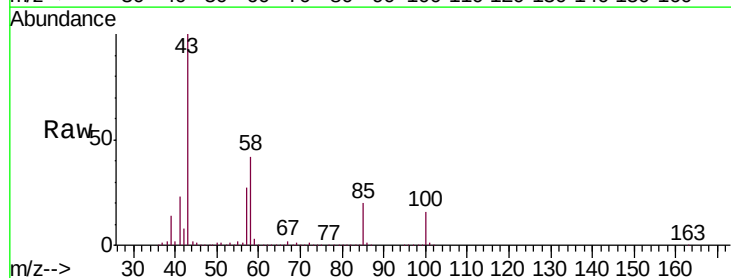
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20031

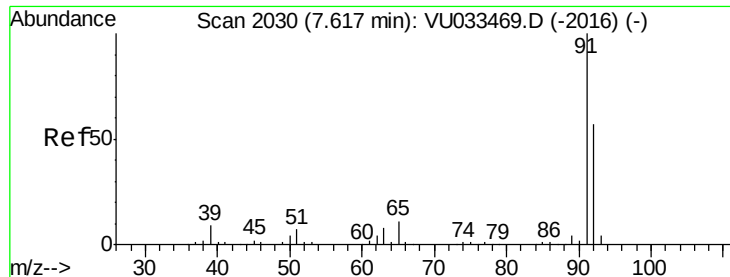
Tgt Ion: 75 Resp: 889959
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 427.702 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Tgt Ion: 43 Resp: 1582110
 Ion Ratio Lower Upper
 43 100
 58 41.9 33.4 50.2
 100 16.0 12.3 18.5





#42

Toluene

Concen: 199.395 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

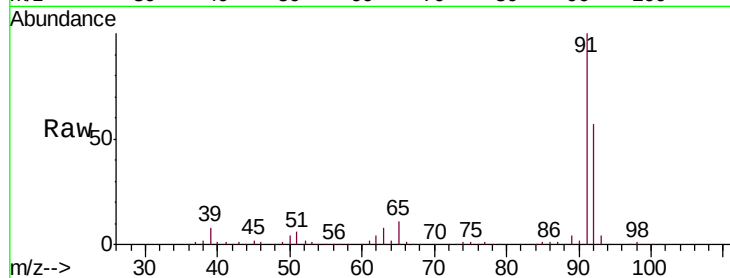
VSTD20031

Tgt Ion: 91 Resp: 2265359

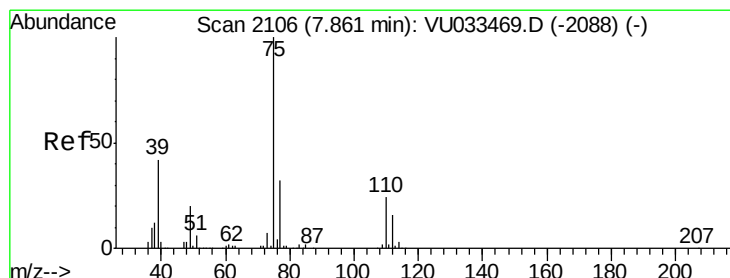
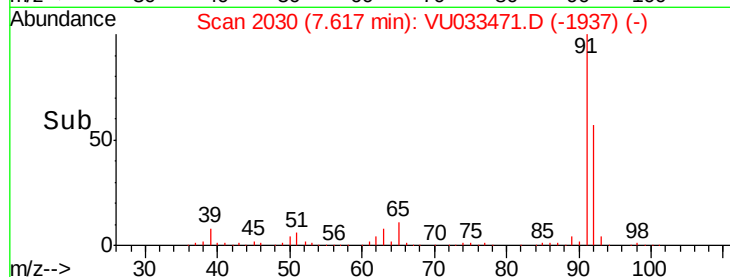
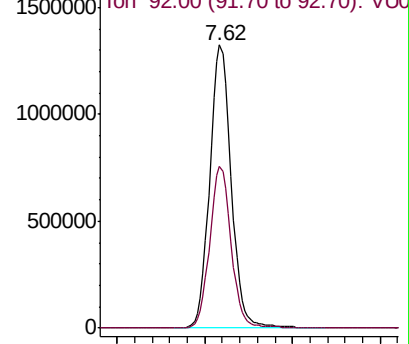
Ion Ratio Lower Upper

91 100

92 57.1 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VU033471.D (-1937) (-)



#44

trans-1,3-Dichloropropene

Concen: 211.730 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033471.D

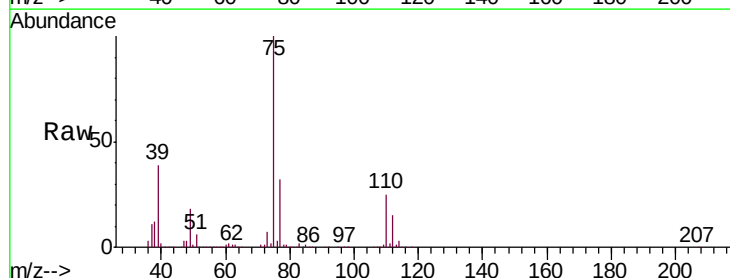
Acq: 29 Jul 2019 13:19

Tgt Ion: 75 Resp: 805864

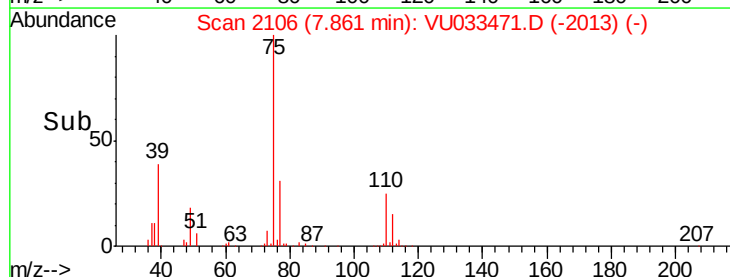
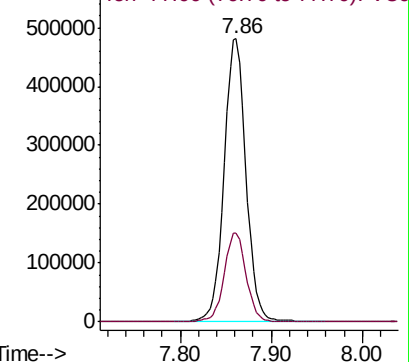
Ion Ratio Lower Upper

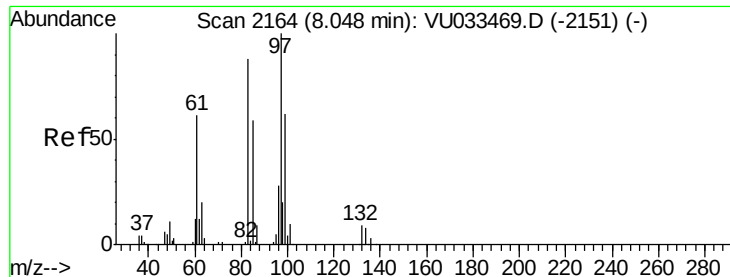
75 100

77 31.6 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033471.D (-2013) (-)

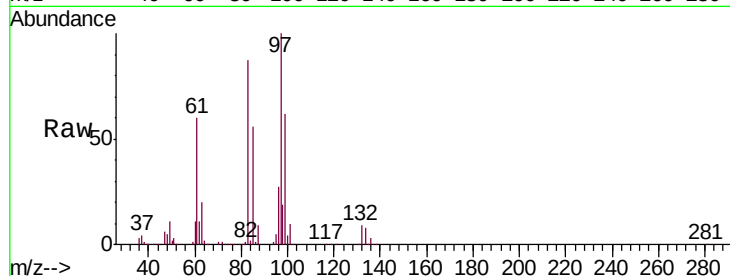




#45
 1,1,2-Trichloroethane
 Concen: 198.350 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20031

Tgt Ion:	97	Resp:	518361
Ion	Ratio	Lower	Upper
97	100		
99	61.6	43.3	80.5
83	86.9	61.3	113.9
85	56.2	41.0	76.2



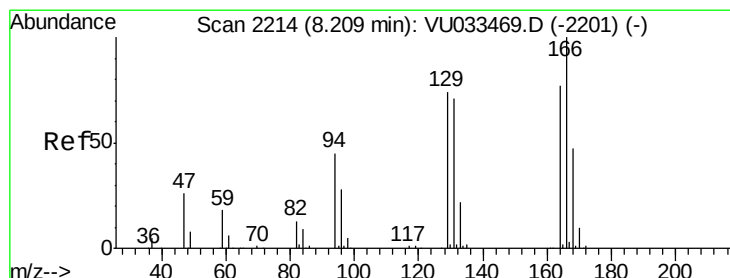
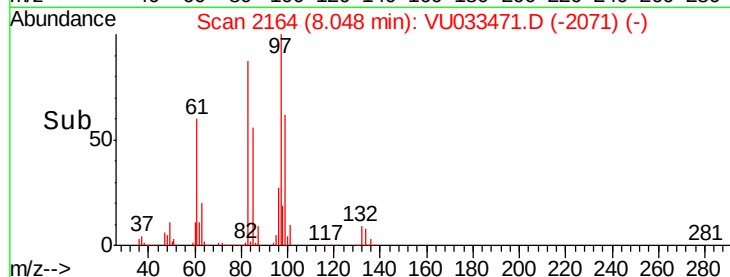
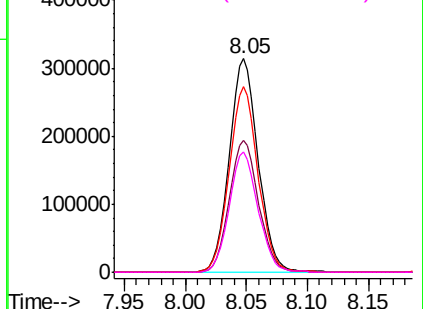
Abundance

Ion 97.00 (96.70 to 97.70): VU033471.D (-2151) (-)

Ion 99.00 (98.70 to 99.70): VU033471.D (-2151) (-)

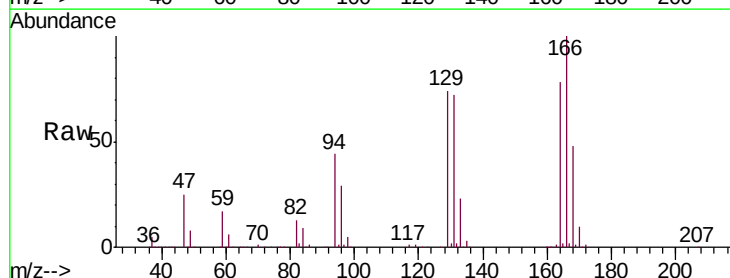
Ion 83.00 (82.70 to 83.70): VU033471.D (-2151) (-)

Ion 85.00 (84.70 to 85.70): VU033471.D (-2151) (-)



#46
 Tetrachloroethene
 Concen: 207.311 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Tgt Ion:	164	Resp:	435348
Ion	Ratio	Lower	Upper
164	100		
129	93.9	66.6	123.8
131	91.8	63.9	118.7
166	127.5	90.5	168.1



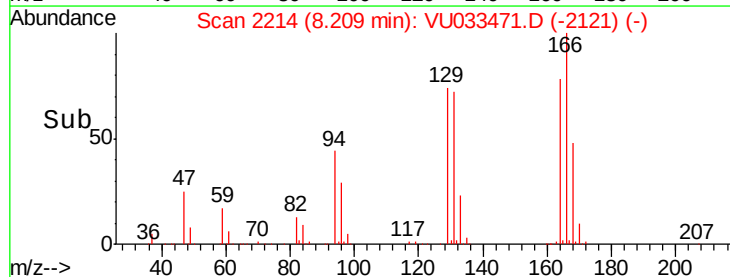
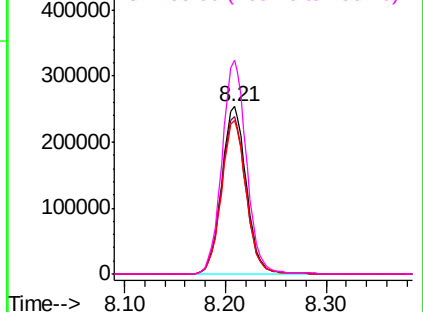
Abundance

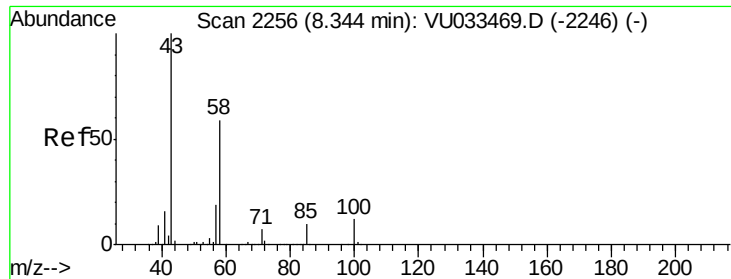
Ion 164.00 (163.70 to 164.70): VU033471.D (-2201) (-)

Ion 129.00 (128.70 to 129.70): VU033471.D (-2201) (-)

Ion 131.00 (130.70 to 131.70): VU033471.D (-2201) (-)

Ion 166.00 (165.70 to 166.70): VU033471.D (-2201) (-)



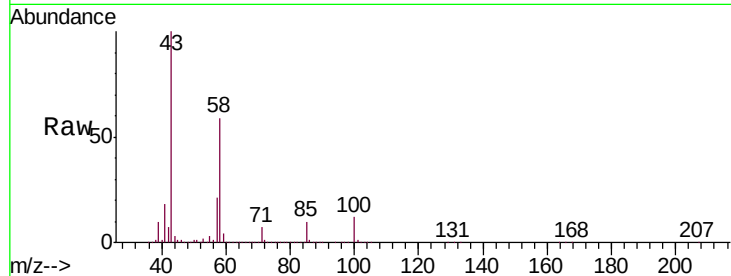


#48
2-Hexanone
Concen: 428.075 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

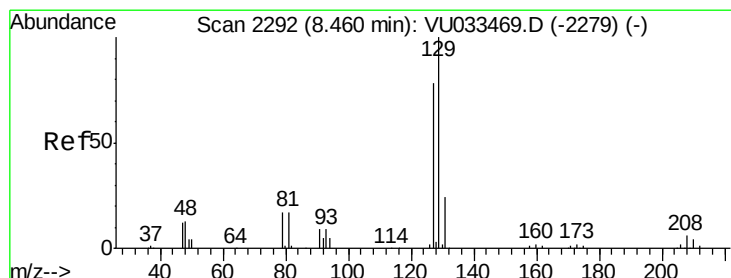
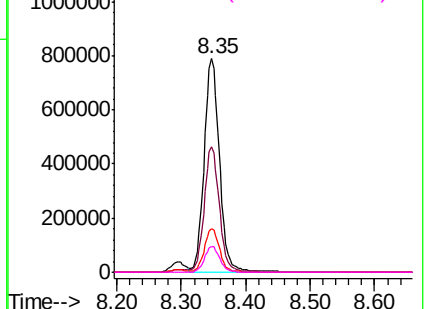
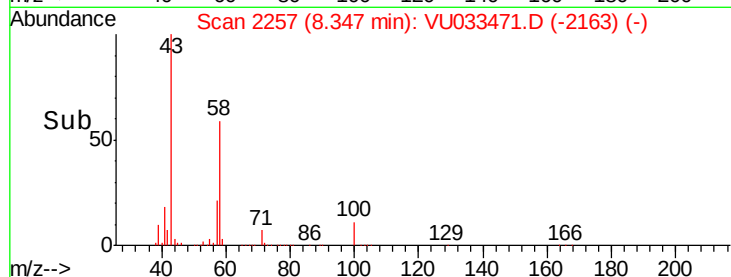
Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

Tgt Ion: 43 Resp: 1300292

Ion	Ratio	Lower	Upper
43	100		
58	57.9	46.6	69.8
57	20.1	16.0	24.0
100	12.2	9.5	14.3



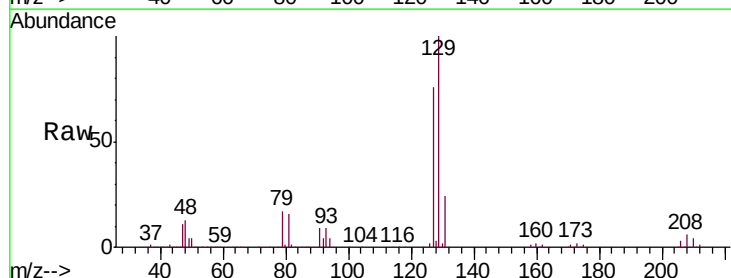
Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0



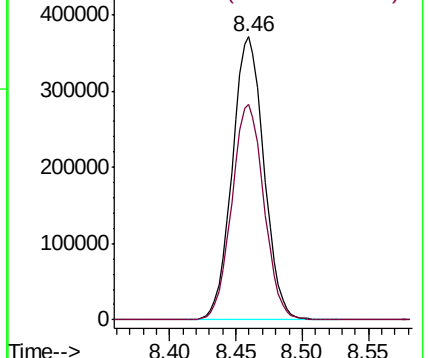
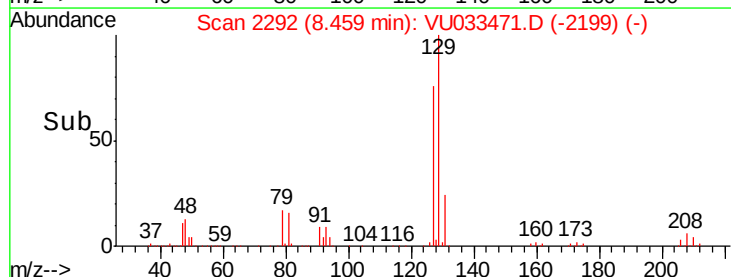
#49
Dibromochloromethane
Concen: 208.711 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

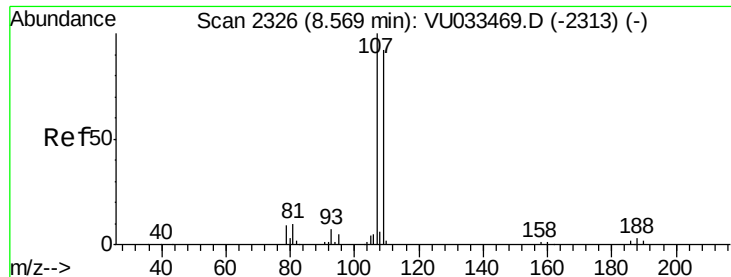
Tgt Ion: 129 Resp: 617439

Ion	Ratio	Lower	Upper
129	100		
127	76.3	54.5	101.1



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

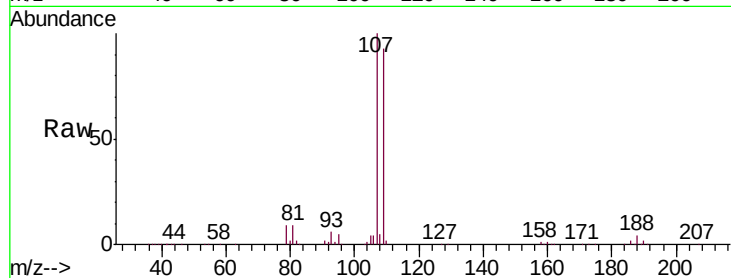




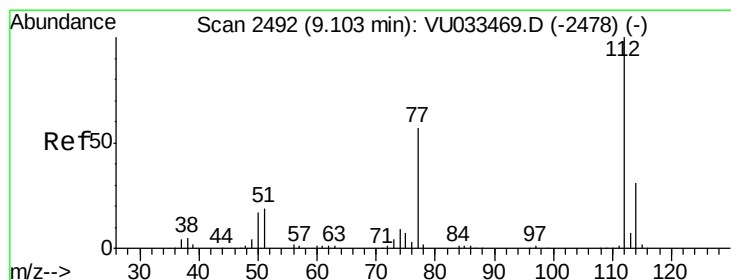
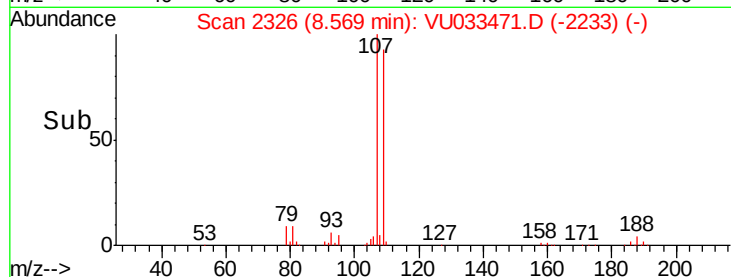
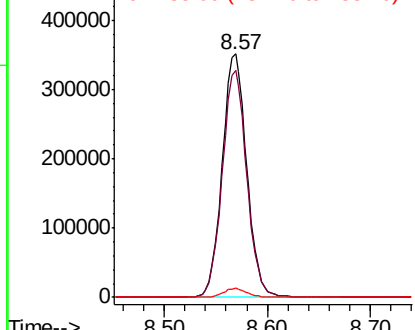
#50
1,2-Dibromoethane
Concen: 203.307 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD20031

Tgt Ion:107 Resp: 579901
Ion Ratio Lower Upper
107 100
109 93.1 64.7 120.1
188 3.6 2.8 4.2

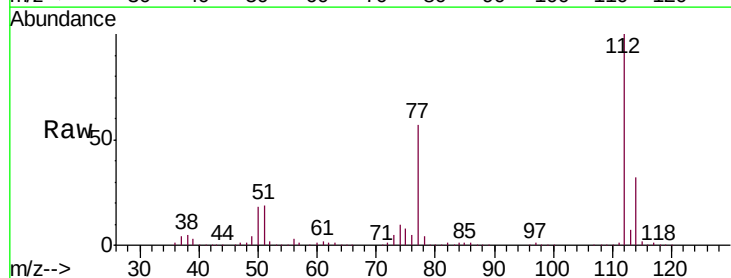


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

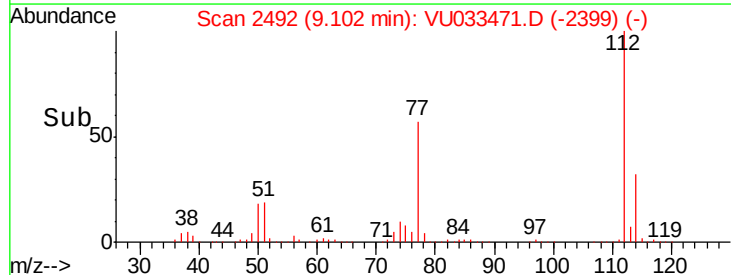
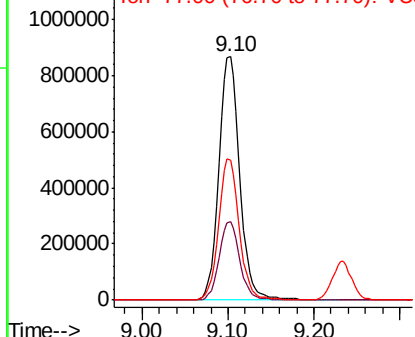


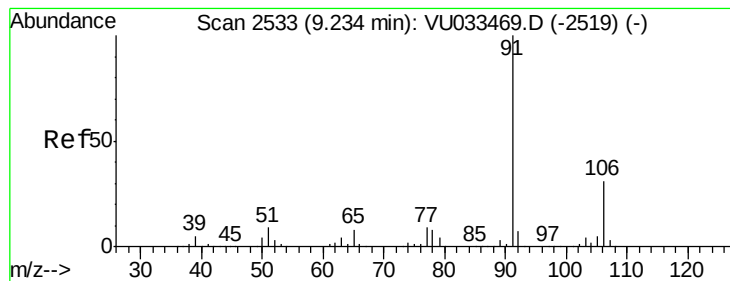
#51
Chlorobenzene
Concen: 201.323 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033471.D
Acq: 29 Jul 2019 13:19

Tgt Ion:112 Resp: 1462165
Ion Ratio Lower Upper
112 100
114 32.2 21.9 40.7
77 57.5 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 209.309 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

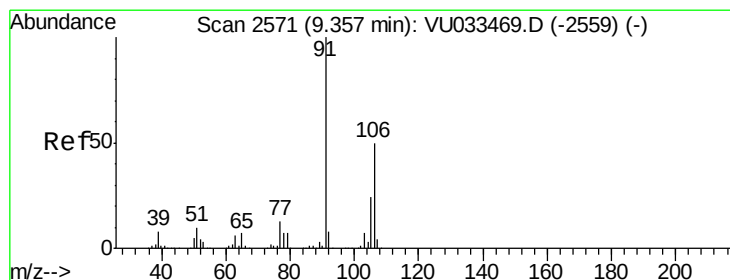
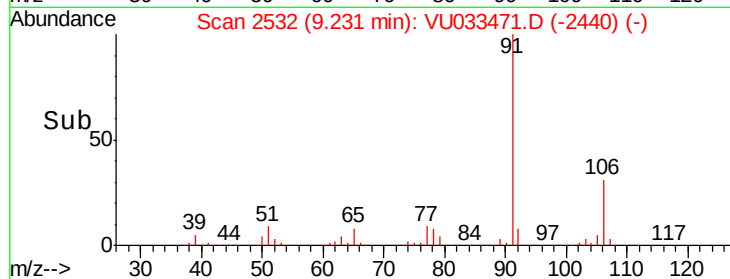
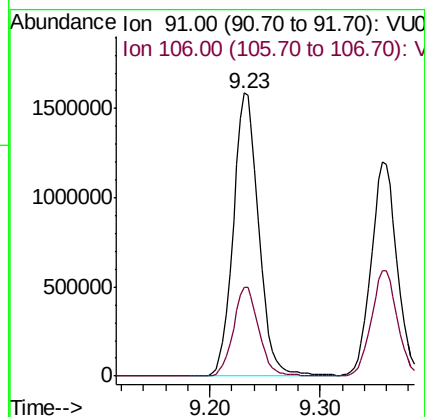
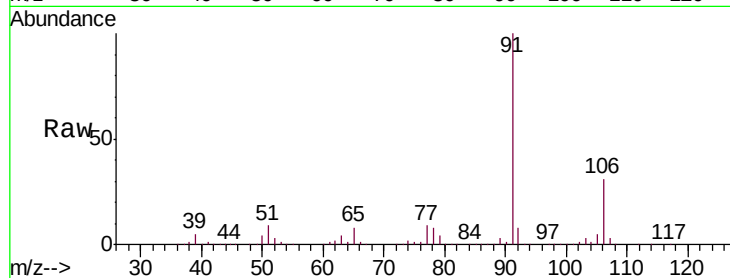
VSTD20031

Tgt Ion: 91 Resp: 2541407

Ion Ratio Lower Upper

91 100

106 31.4 21.6 40.2



#53

m,p-Xylene

Concen: 209.267 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033471.D

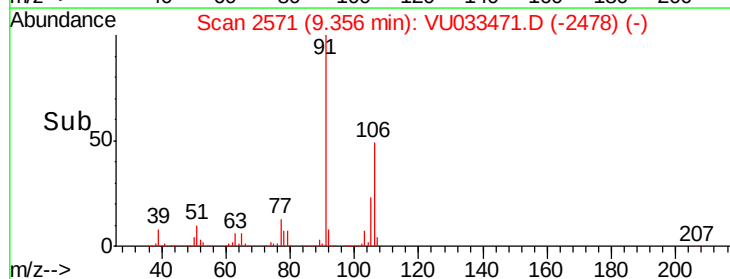
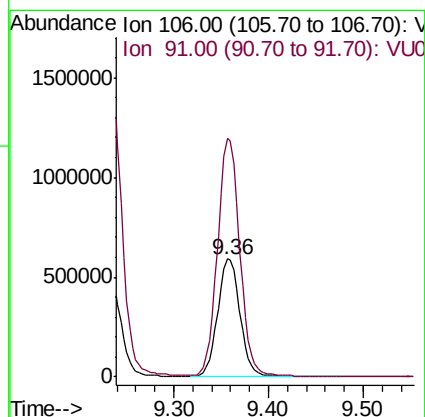
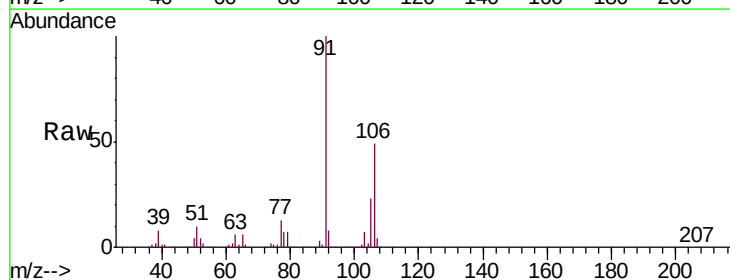
Acq: 29 Jul 2019 13:19

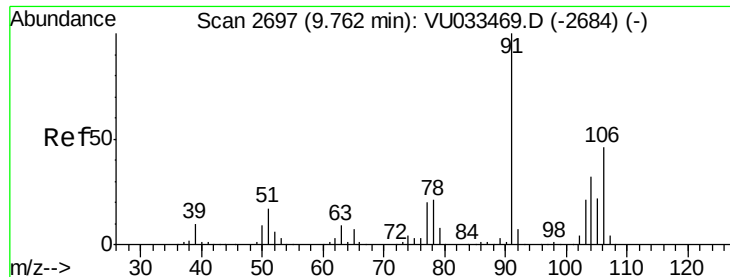
Tgt Ion: 106 Resp: 979474

Ion Ratio Lower Upper

106 100

91 203.1 140.7 261.3





#54

o-xylene

Concen: 216.001 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

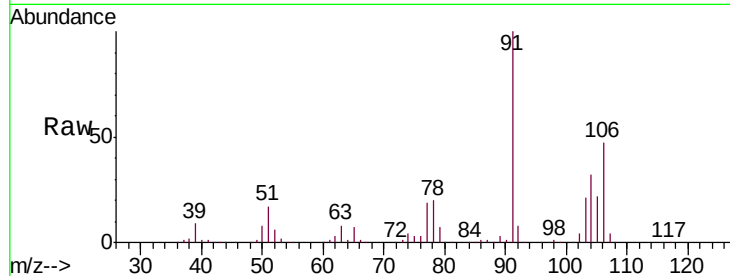
VSTD20031

Tgt Ion:106 Resp: 977215

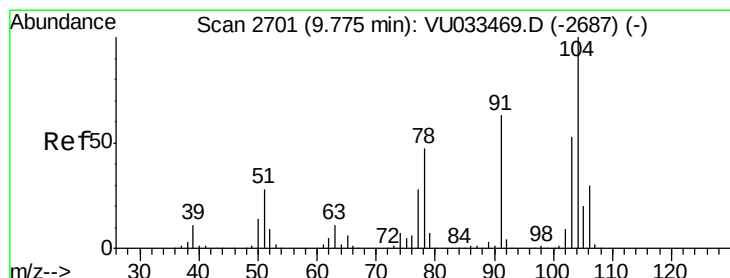
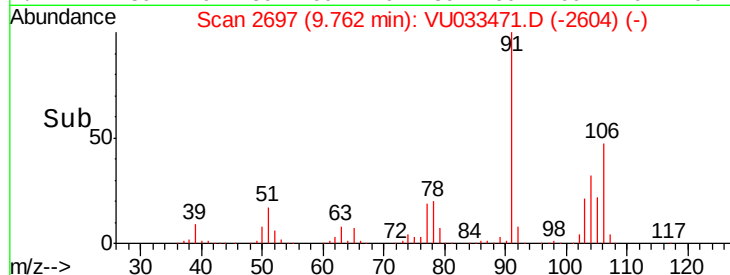
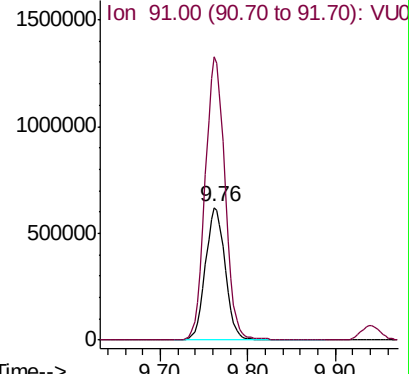
Ion Ratio Lower Upper

106 100

91 213.8 151.1 280.7



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 216.607 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033471.D

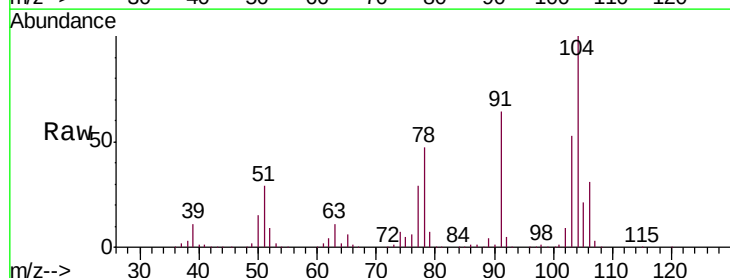
Acq: 29 Jul 2019 13:19

Tgt Ion:104 Resp: 1698219

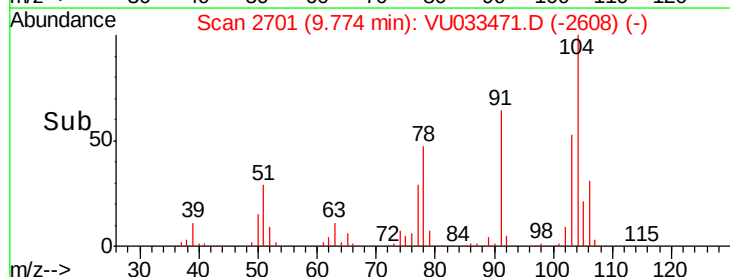
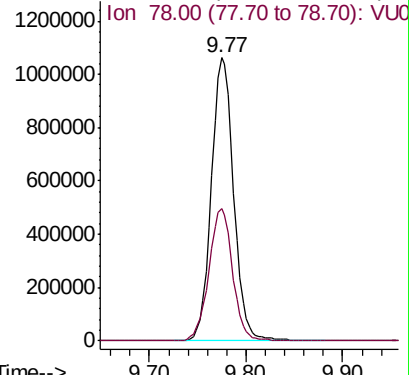
Ion Ratio Lower Upper

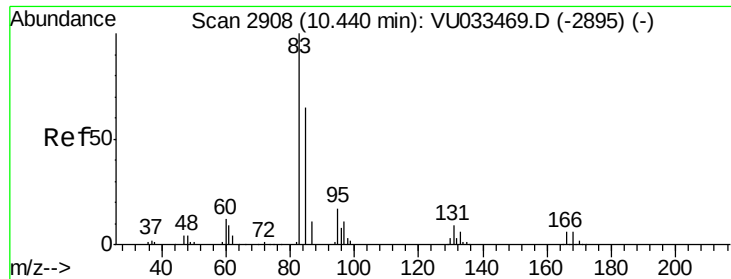
104 100

78 46.9 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V





#57

1,1,2,2-Tetrachloroethane

Concen: 205.691 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD20031

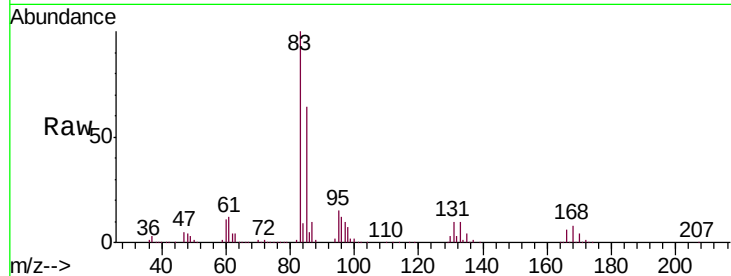
Tgt Ion: 83 Resp: 932455

Ion Ratio Lower Upper

83 100

85 64.2 45.9 85.3

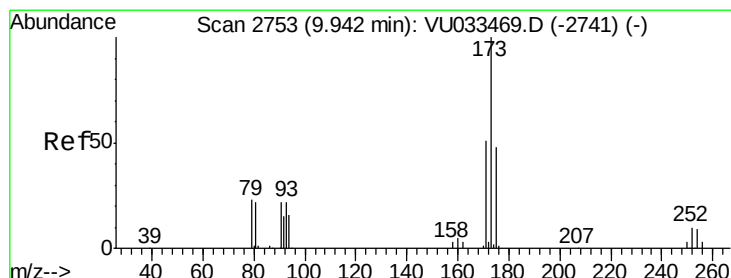
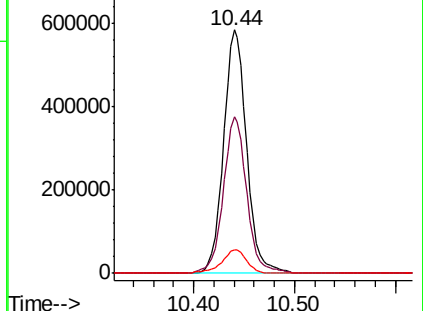
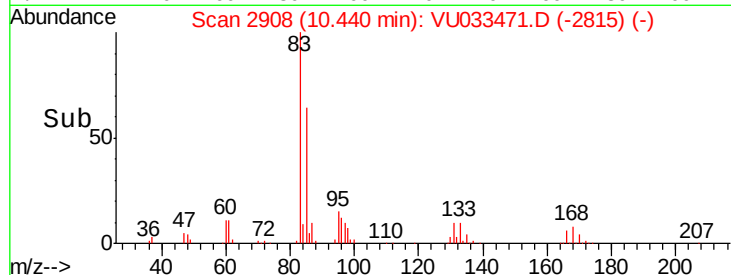
131 9.7 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VU033471.D (-2815) (-)

Ion 85.00 (84.70 to 85.70): VU033471.D (-2815) (-)

Ion 131.00 (130.70 to 131.70): VU033471.D (-2815) (-)



#59

Bromoform

Concen: 214.911 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

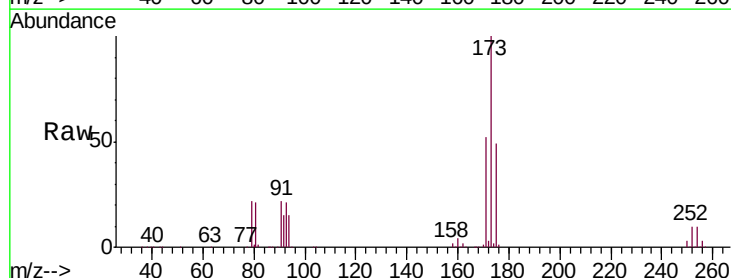
Tgt Ion: 173 Resp: 493498

Ion Ratio Lower Upper

173 100

175 48.7 38.1 57.1

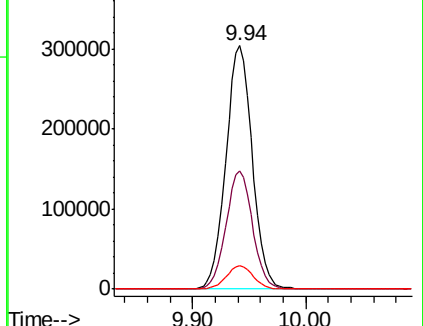
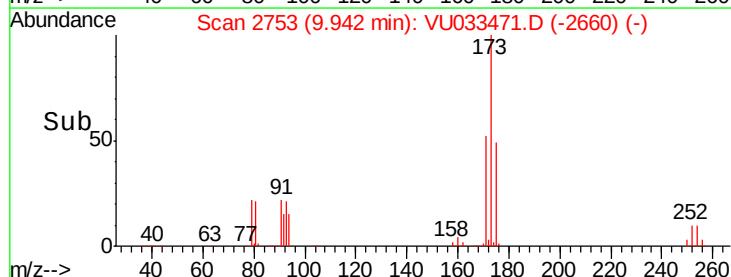
254 9.7 7.3 10.9

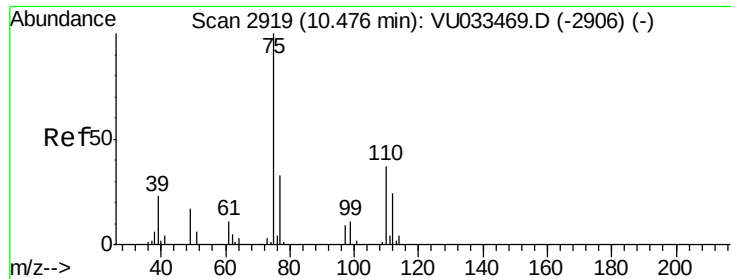


Abundance Ion 173.00 (172.70 to 173.70): VU033471.D (-2660) (-)

Ion 175.00 (174.70 to 175.70): VU033471.D (-2660) (-)

Ion 254.00 (253.70 to 254.70): VU033471.D (-2660) (-)

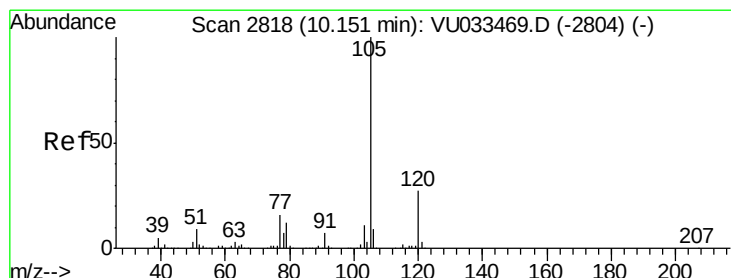
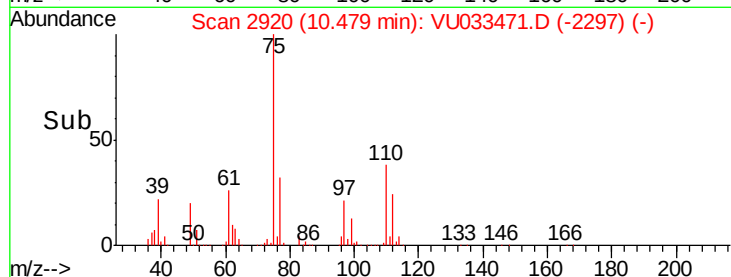
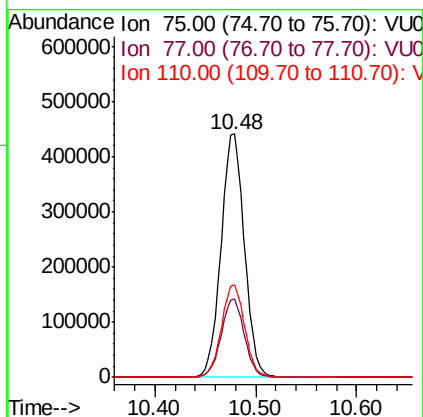
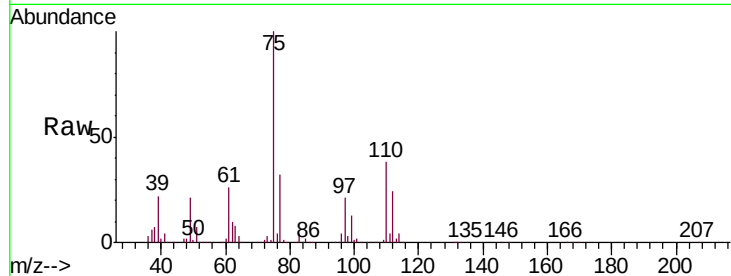




#60
 1,2,3-Trichloropropane
 Concen: 192.215 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

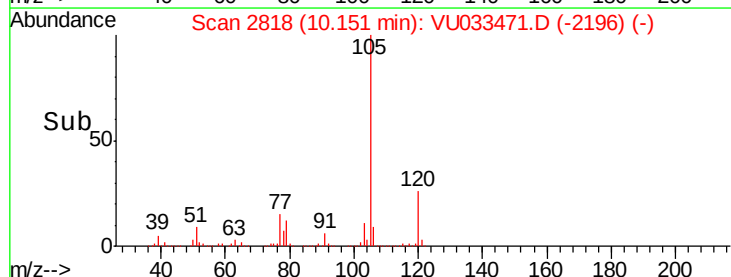
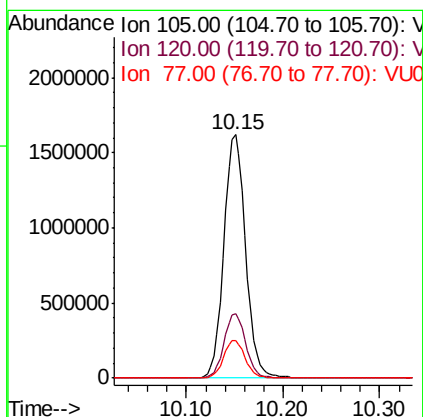
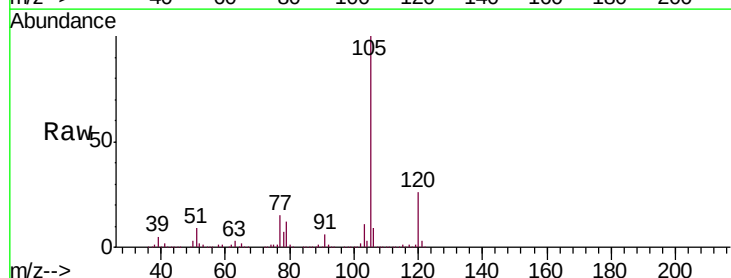
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20031

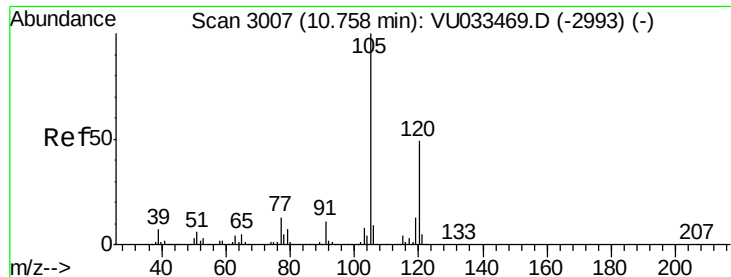
Tgt Ion: 75 Resp: 714699
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.9 38.9
 110 37.7 30.2 45.4



#61
 Isopropylbenzene
 Concen: 206.019 ug/L
 RT: 10.15 min Scan# 2818
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Tgt Ion: 105 Resp: 2519328
 Ion Ratio Lower Upper
 105 100
 120 26.6 21.7 32.5
 77 15.5 12.6 19.0

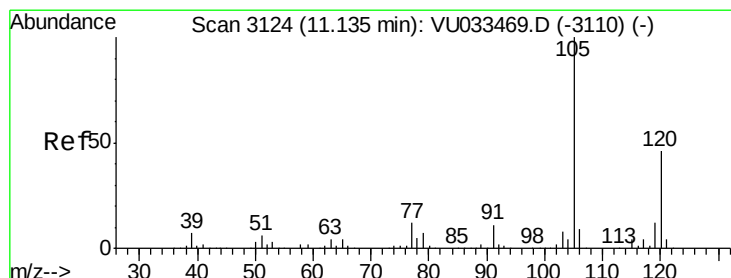
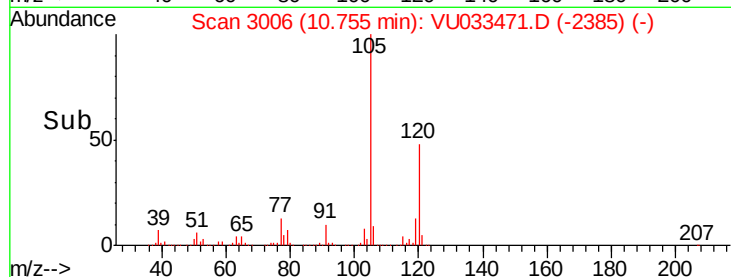
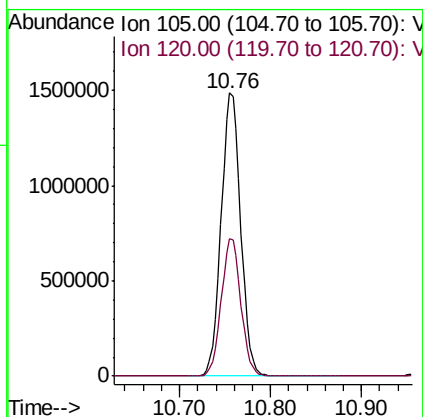
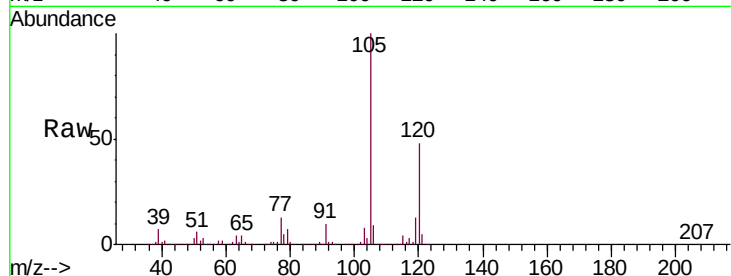




#62
 1,3,5-Trimethylbenzene
 Concen: 215.911 ug/L
 RT: 10.76 min Scan# 3006
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

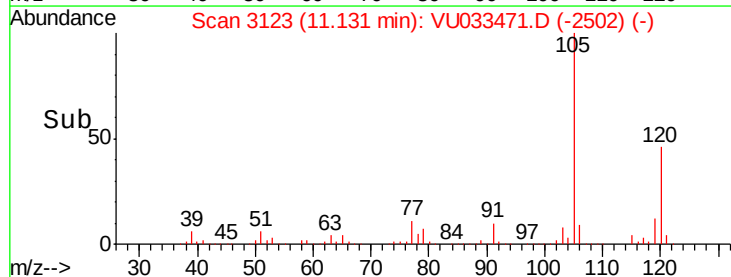
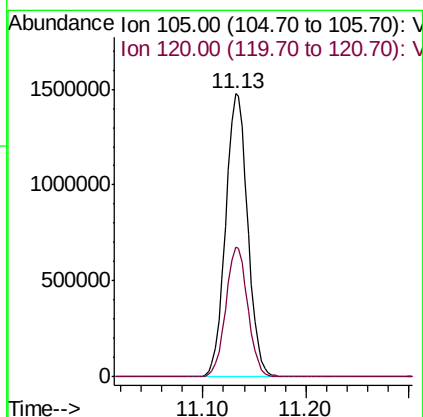
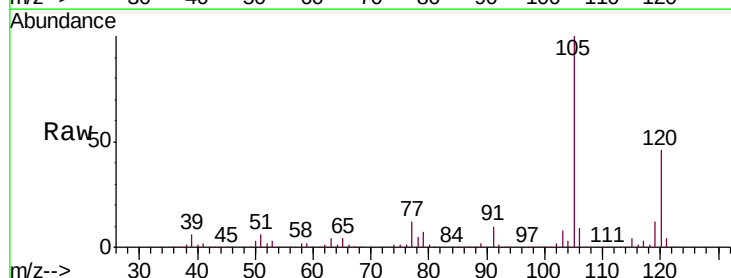
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20031

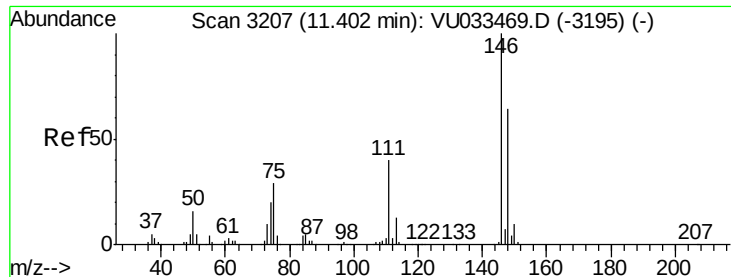
Tgt Ion:105 Resp: 2209110
 Ion Ratio Lower Upper
 105 100
 120 48.5 39.0 58.6



#63
 1,2,4-Trimethylbenzene
 Concen: 213.447 ug/L
 RT: 11.13 min Scan# 3123
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Tgt Ion:105 Resp: 2200268
 Ion Ratio Lower Upper
 105 100
 120 45.6 36.6 55.0

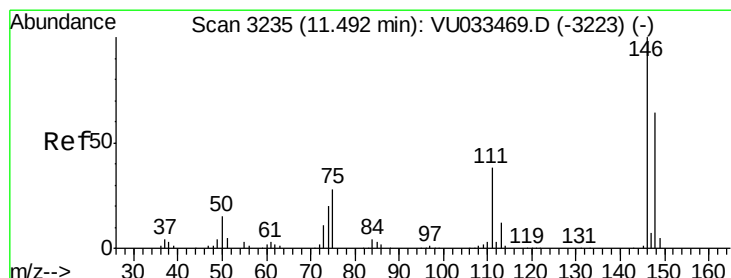
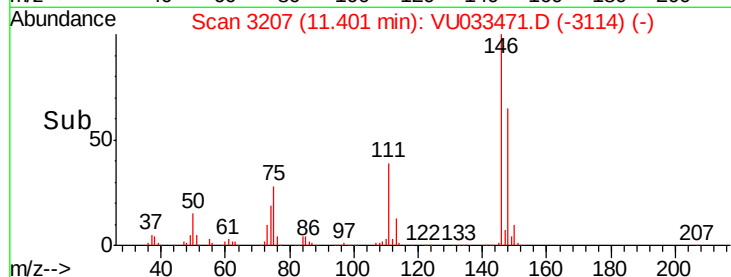
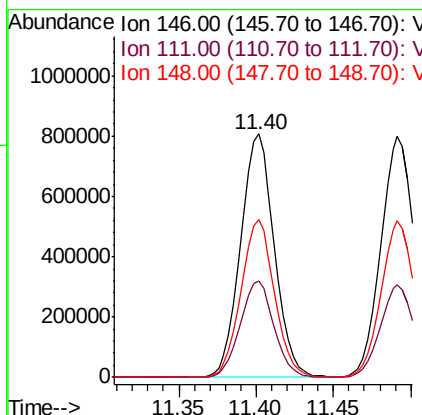
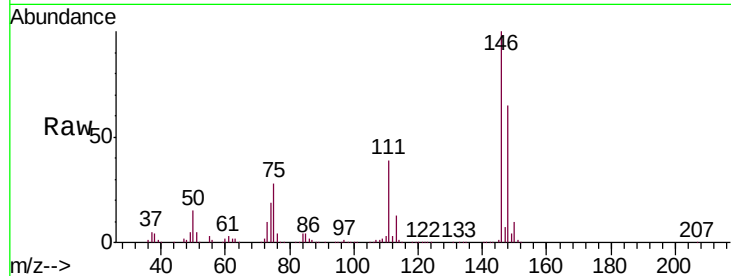




#64
 1,3-Dichlorobenzene
 Concen: 206.651 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

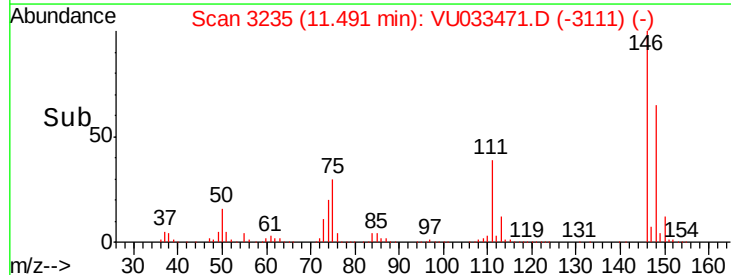
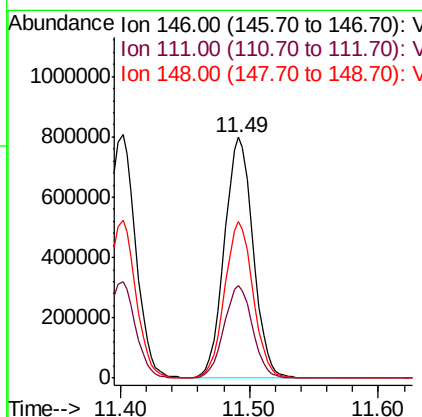
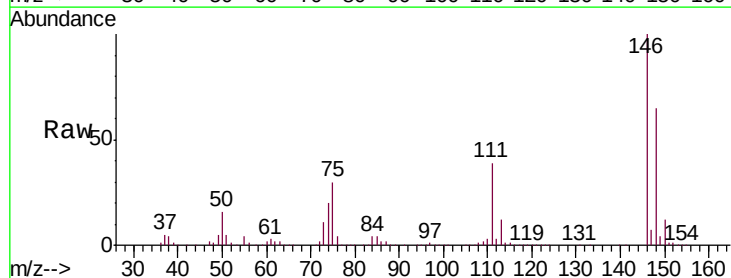
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20031

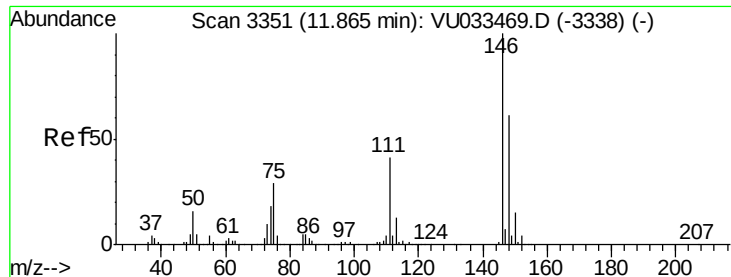
Tgt Ion:146 Resp: 1224359
 Ion Ratio Lower Upper
 146 100
 111 39.4 28.2 52.4
 148 64.7 44.4 82.5



#65
 1,4-Dichlorobenzene
 Concen: 205.164 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Tgt Ion:146 Resp: 1226892
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.0 50.2
 148 65.0 44.7 82.9





#67

1,2-Dichlorobenzene

Concen: 202.476 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD20031

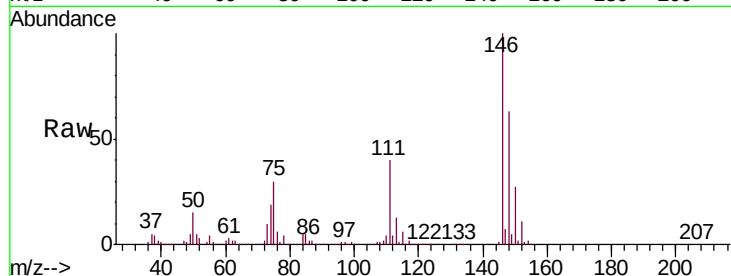
Tgt Ion:146 Resp: 1221456

Ion Ratio Lower Upper

146 100

111 40.0 32.8 49.2

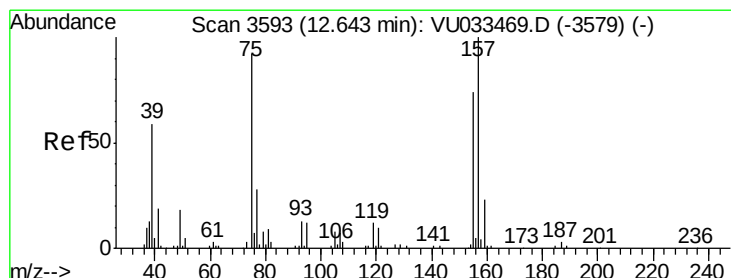
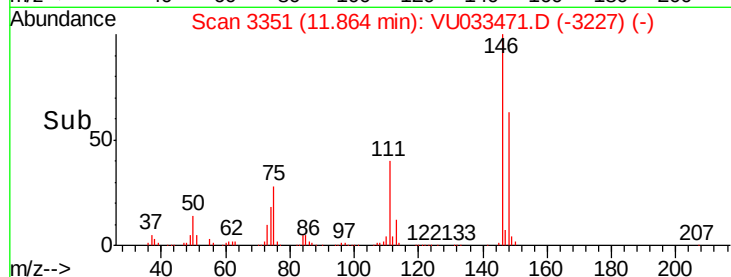
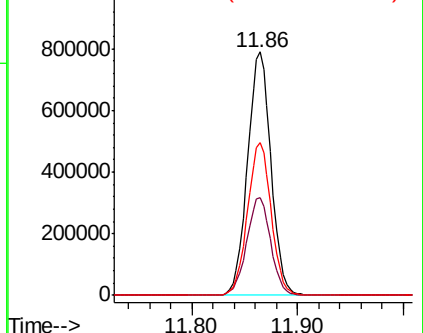
148 62.5 49.2 73.8



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



#68

1,2-Dibromo-3-chloropropane

Concen: 204.382 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

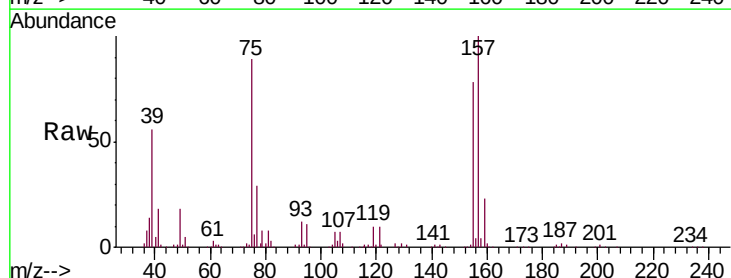
Tgt Ion: 75 Resp: 215493

Ion Ratio Lower Upper

75 100

155 87.9 64.8 97.2

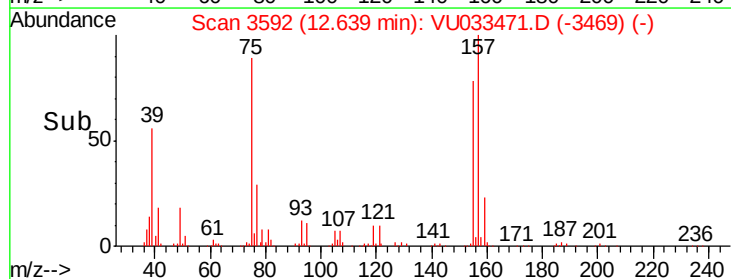
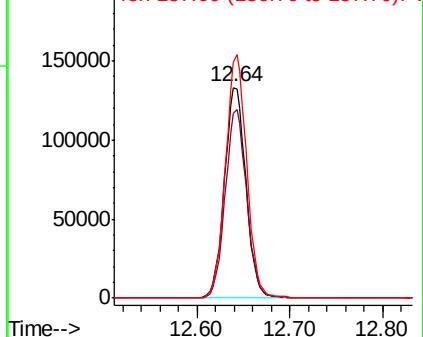
157 112.2 87.1 130.7

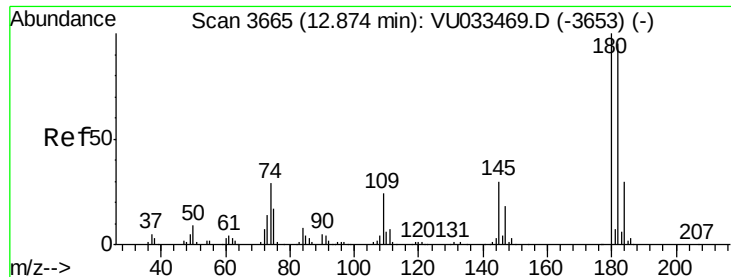


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

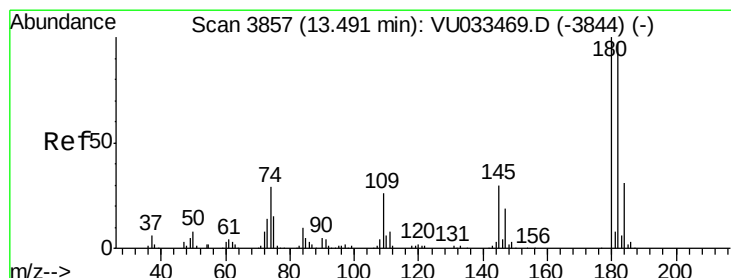
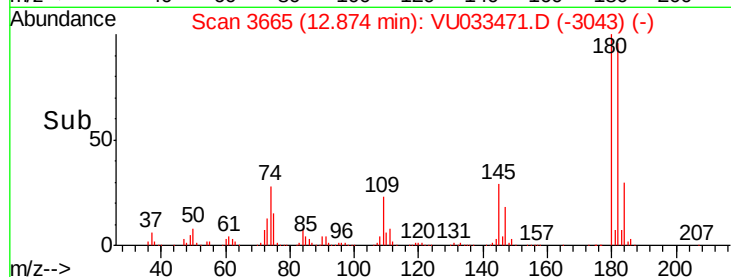
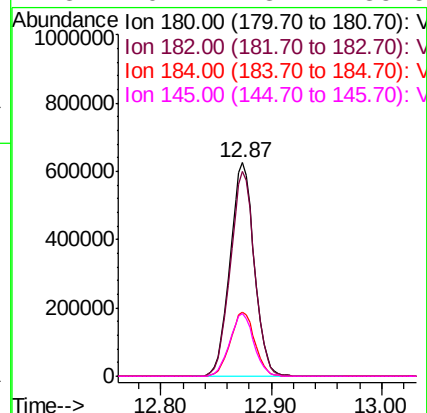
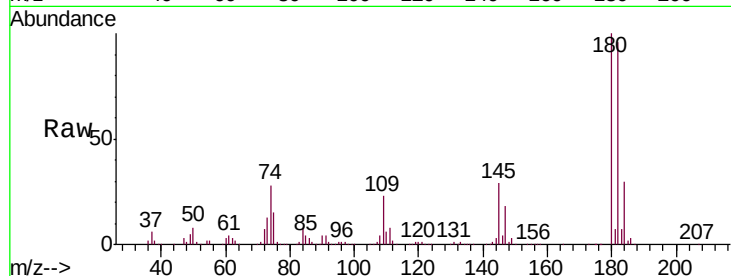




#69
 1,3,5-Trichlorobenzene
 Concen: 212.111 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

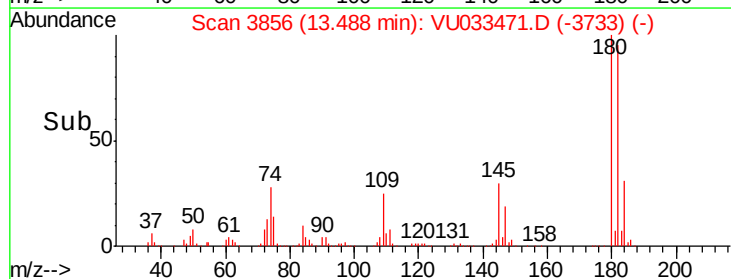
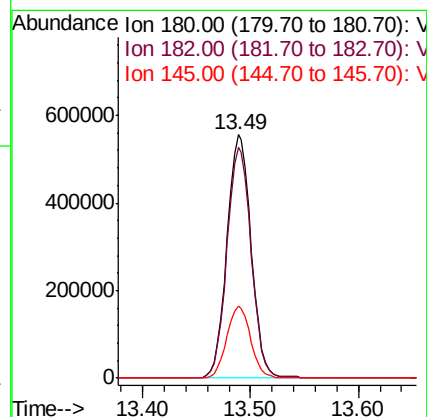
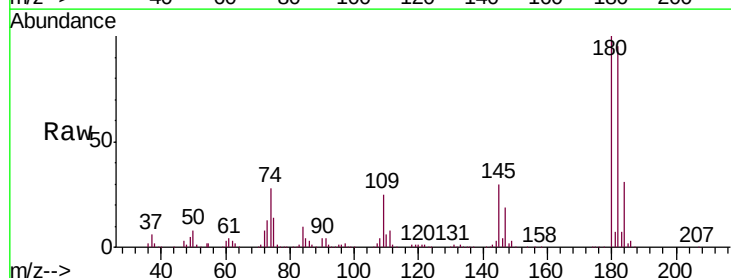
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20031

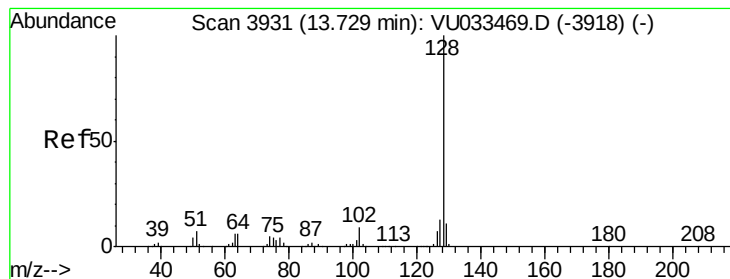
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.4
184	30.4	24.1	36.1
145	29.4	23.7	35.5



#70
 1,2,4-trichlorobenzene
 Concen: 230.676 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033471.D
 Acq: 29 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.5	116.3
145	29.4	23.9	35.9





#71

Naphthalene

Concen: 229.104 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD20031

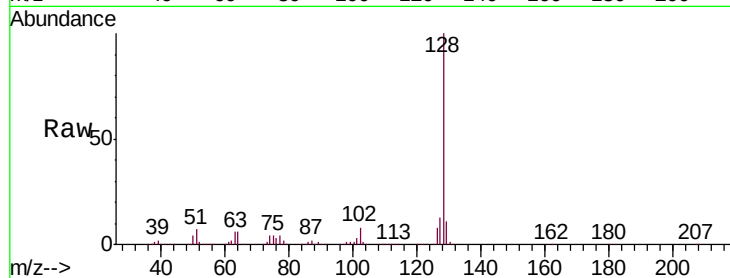
Tgt Ion:128 Resp: 2629566

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

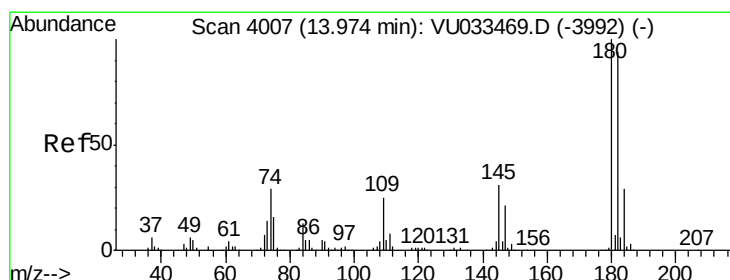
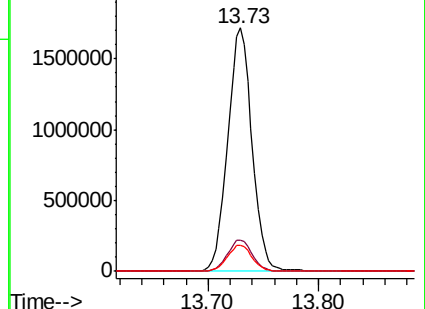
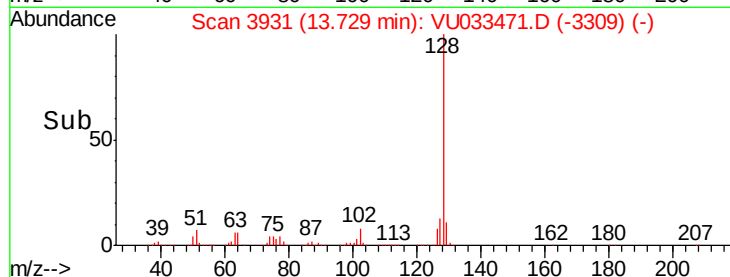
129 10.9 8.7 13.1



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



#72

1,2,3-Trichlorobenzene

Concen: 213.920 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033471.D

Acq: 29 Jul 2019 13:19

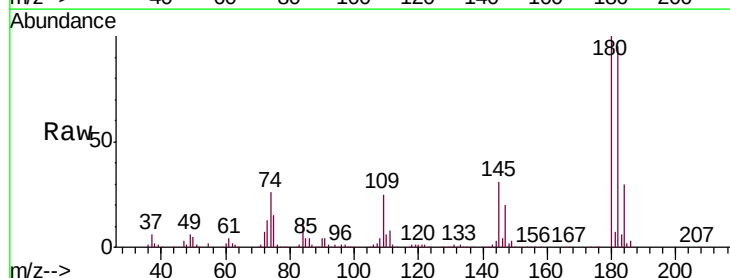
Tgt Ion:180 Resp: 872463

Ion Ratio Lower Upper

180 100

182 95.1 76.4 114.6

145 31.1 24.9 37.3



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

