

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051619\
 Data File : VF062627.D
 Acq On : 16 May 2019 15:28
 Operator : FY/SY
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Quant Time: May 17 05:05:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 04:56:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	823380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	1335643	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	985352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	493230	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	36337	6.25	ug/l	0.00
Spiked Amount			Recovery	=	12.50%	
35) Dibromofluoromethane	4.32	113	58573	5.73	ug/l	0.00
Spiked Amount			Recovery	=	11.46%	
50) Toluene-d8	7.72	98	141482	5.80	ug/l	0.00
Spiked Amount			Recovery	=	11.60%	
62) 4-Bromofluorobenzene	11.50	95	53887	5.82	ug/l	0.00
Spiked Amount			Recovery	=	11.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	67418	6.017	ug/l	84
3) Chloromethane	1.15	50	58170	5.638	ug/l	93
4) Vinyl Chloride	1.19	62	49436	5.205	ug/l	96
5) Bromomethane	1.40	94	32757	6.305	ug/l	87
6) Chloroethane	1.45	64	21282	6.102	ug/l	96
7) Trichlorofluoromethane	1.57	101	42659	3.551	ug/l	100
8) Diethyl Ether	1.72	74	14667	5.806	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.91	101	44031	5.423	ug/l	91
10) Methyl Iodide	1.99	142	81336	5.099	ug/l	92
11) Tert butyl alcohol	2.70	59	9984	25.991	ug/l #	44
12) 1,1-Dichloroethene	1.88	96	38175	5.161	ug/l	87
13) Acrolein	2.10	56	7444	18.564	ug/l	92
14) Allyl chloride	2.21	41	30882	4.249	ug/l	96
15) Acrylonitrile	3.10	53	28797	26.576	ug/l #	92
16) Acetone	2.36	43	41749	27.658	ug/l	89
17) Carbon Disulfide	1.92	76	111413	5.286	ug/l #	90
18) Methyl Acetate	2.47	43	13600	5.272	ug/l #	87
19) Methyl tert-butyl Ether	2.55	73	64035	4.843	ug/l #	90
20) Methylene Chloride	2.35	84	31246	4.154	ug/l #	89
21) trans-1,2-Dichloroethene	2.44	96	34333	4.749	ug/l	86
22) Diisopropyl ether	2.95	45	88754	5.375	ug/l #	89
23) Vinyl Acetate	3.35	43	284450	25.539	ug/l	98
24) 1,1-Dichloroethane	3.02	63	61903	5.111	ug/l	96
25) 2-Butanone	4.54	43	85014	26.361	ug/l	93
26) 2,2-Dichloropropane	3.79	77	33214	4.793	ug/l	99
27) cis-1,2-Dichloroethene	3.66	96	60539	5.091	ug/l	91
28) Bromochloromethane	3.91	49	38450	5.660	ug/l #	93
29) Tetrahydrofuran	4.29	42	33872	25.955	ug/l	93
30) Chloroform	4.06	83	87064	5.177	ug/l	85
31) Cyclohexane	3.89	56	79841	5.295	ug/l	96
32) 1,1,1-Trichloroethane	4.30	97	52713	4.720	ug/l	97
36) 1,1-Dichloropropene	4.49	75	66444	4.855	ug/l	94
37) Ethyl Acetate	4.31	43	33232	5.947	ug/l #	85
38) Carbon Tetrachloride	4.19	117	45851	4.755	ug/l	84

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 Data File : VF062627.D
 Acq On : 16 May 2019 15:28
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 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Quant Time: May 17 05:05:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 04:56:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	83240	5.055	ug/l	95
40) Benzene	4.83	78	189108	5.072	ug/l	98
41) Methacrylonitrile	4.95	41	17303	5.906	ug/l	94
42) 1,2-Dichloroethane	5.14	62	34542	4.646	ug/l #	71
43) Isopropyl Acetate	7.13	43	40951	5.657	ug/l #	98
44) Trichloroethene	5.70	130	51788	4.942	ug/l	100
45) 1,2-Dichloropropane	6.42	63	48042	5.104	ug/l	89
46) Dibromomethane	6.27	93	27309	5.021	ug/l	90
47) Bromodichloromethane	6.57	83	57268	5.071	ug/l	98
48) Methyl methacrylate	6.89	41	18855	4.983	ug/l #	85
49) 1,4-Dioxane	6.89	88	4841	99.886	ug/l #	84
51) 4-Methyl-2-Pentanone	8.42	43	135495	27.381	ug/l	93
52) Toluene	7.79	92	101032	5.167	ug/l	100
53) t-1,3-Dichloropropene	8.44	75	44885	4.858	ug/l	99
54) cis-1,3-Dichloropropene	7.47	75	61514	4.757	ug/l	94
55) 1,1,2-Trichloroethane	8.65	97	29451	5.087	ug/l	90
56) Ethyl methacrylate	8.76	69	37432	5.427	ug/l #	92
57) 1,3-Dichloropropane	9.01	76	51397	5.212	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.46	63	55496	24.718	ug/l	95
59) 2-Hexanone	9.63	43	97738	27.014	ug/l	98
60) Dibromochloromethane	8.86	129	35313	4.680	ug/l	89
61) 1,2-Dibromoethane	9.14	107	31331	5.095	ug/l	86
64) Tetrachloroethene	8.31	164	39921	5.114	ug/l	86
65) Chlorobenzene	9.94	112	97919	5.060	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	37504	4.827	ug/l	93
67) Ethyl Benzene	10.03	91	177741	5.287	ug/l	99
68) m/p-Xylenes	10.26	106	135217	10.701	ug/l	86
69) o-Xylene	10.82	106	63258	4.860	ug/l	86
70) Styrene	10.89	104	104698	5.292	ug/l	97
71) Bromoform	10.88	173	18626	4.787	ug/l #	89
73) Isopropylbenzene	11.22	105	189329	5.356	ug/l	90
74) N-amyl acetate	11.45	43	60415	5.540	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.77	83	39508	5.469	ug/l	88
76) 1,2,3-Trichloropropane	11.87	75	25713	5.417	ug/l	81
77) Bromobenzene	11.58	156	44695	5.086	ug/l	86
78) n-propylbenzene	11.67	91	236668	5.657	ug/l	90
79) 2-Chlorotoluene	11.80	91	127066	5.389	ug/l	94
80) 1,3,5-Trimethylbenzene	11.90	105	155876	5.499	ug/l	89
81) trans-1,4-Dichloro-2-buten	11.95	75	14203	5.385	ug/l	97
82) 4-Chlorotoluene	11.98	91	120507	5.183	ug/l	94
83) tert-Butylbenzene	12.20	119	151271	5.260	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	140047	5.105	ug/l	100
85) sec-Butylbenzene	12.37	105	206498	5.351	ug/l	93
86) p-Isopropyltoluene	12.52	119	172278	5.297	ug/l	93
87) 1,3-Dichlorobenzene	12.54	146	84723	5.329	ug/l	96
88) 1,4-Dichlorobenzene	12.63	146	81421	5.458	ug/l	99
89) n-Butylbenzene	12.90	91	176516	5.504	ug/l	90
90) Hexachloroethane	12.97	117	37218	4.770	ug/l	100
91) 1,2-Dichlorobenzene	13.00	146	78657	5.551	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.69	75	3876	4.497	ug/l	91

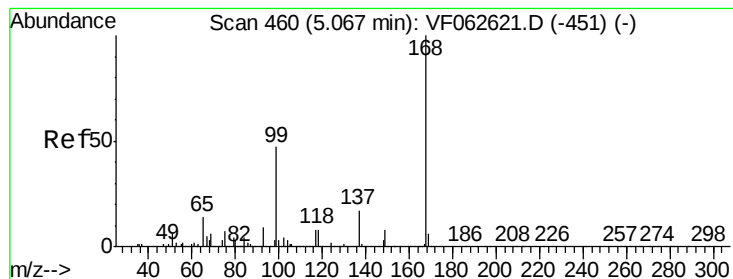
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051619\
Data File : VF062627.D
Acq On : 16 May 2019 15:28
Operator : FY/SY
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC005

Quant Time: May 17 05:05:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
Quant Title : SW846 8260
QLast Update : Fri May 17 04:56:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	52176	5.144	ug/l	95
94) Hexachlorobutadiene	14.23	225	34041	4.809	ug/l	95
95) Naphthalene	14.50	128	90857	4.930	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	46886	4.880	ug/l	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

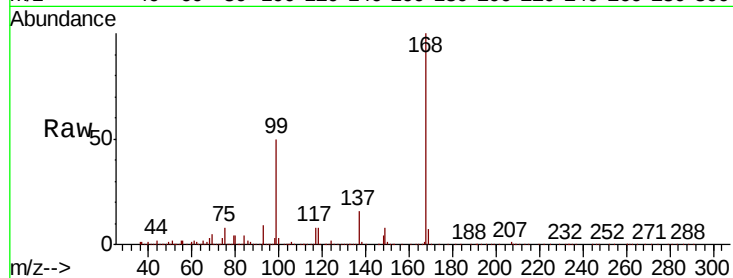
VSTDIC005

Tot Ion:168 Resp: 823380

Ion Ratio Lower Upper

168 100

99 49.6 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

300000

250000

200000

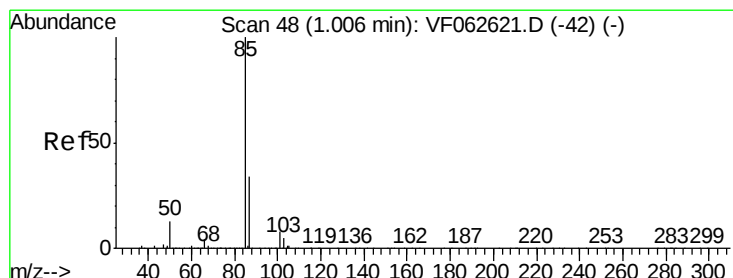
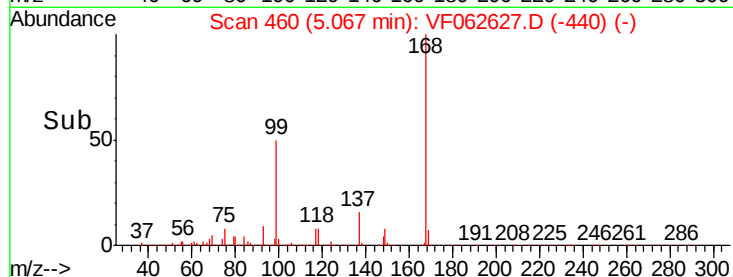
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 6.017 ug/l

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062627.D

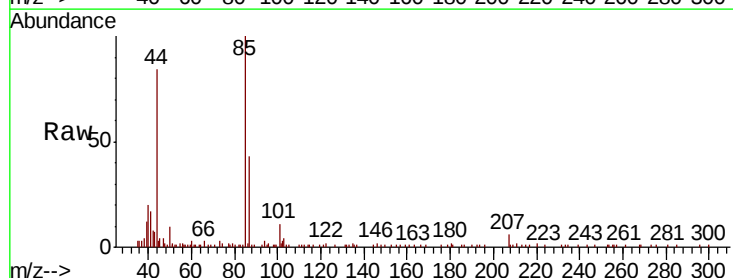
Acq: 16 May 2019 15:28

Tgt Ion: 85 Resp: 67418

Ion Ratio Lower Upper

85 100

87 42.5 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

20000

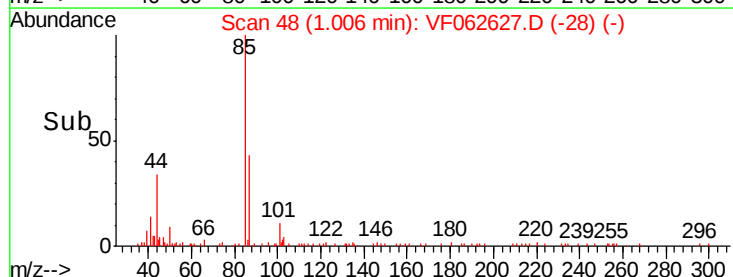
15000

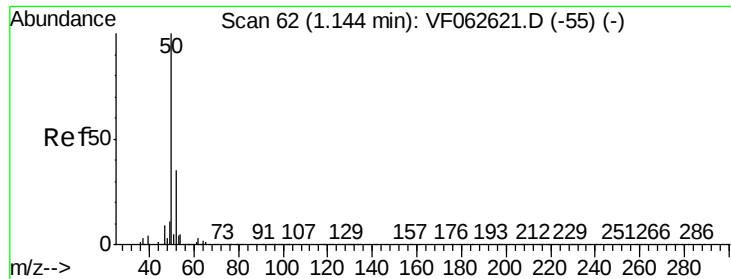
10000

5000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 5.638 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

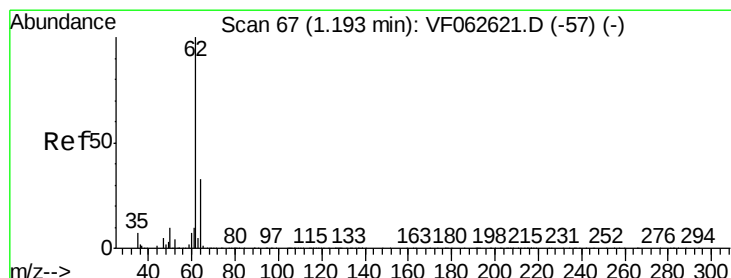
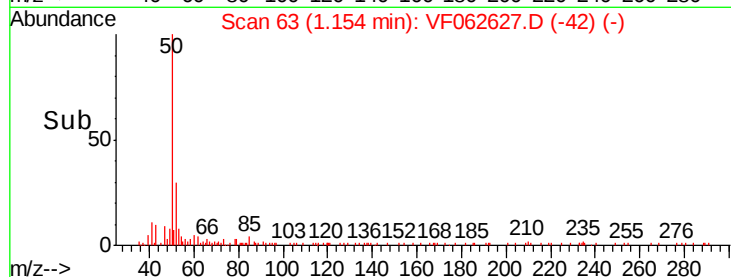
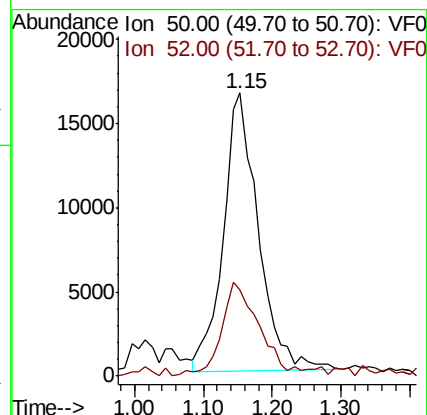
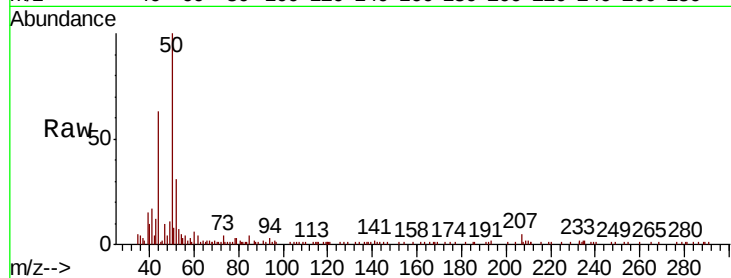
VSTDIC005

Tot Ion: 50 Resp: 58170

Ion Ratio Lower Upper

50 100

52 30.5 27.5 41.3



#4

Vinyl Chloride

Concen: 5.205 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.00 min

Lab File: VF062627.D

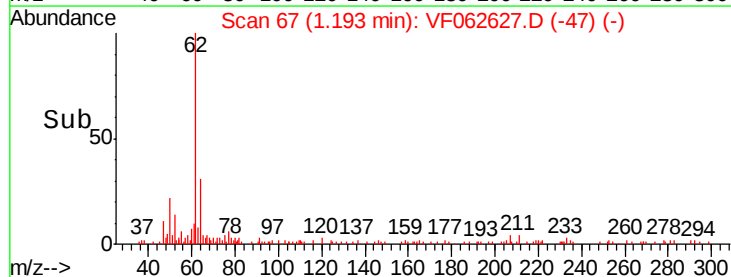
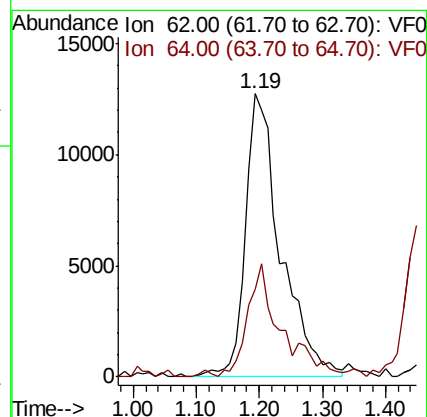
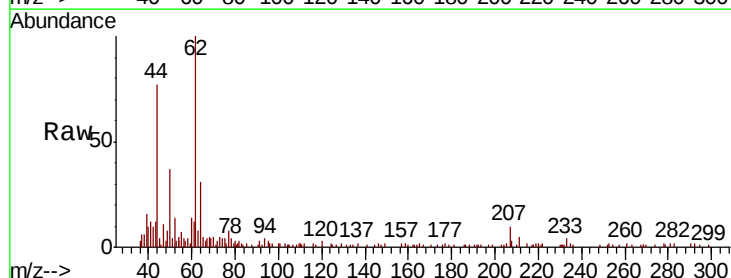
Acq: 16 May 2019 15:28

Tgt Ion: 62 Resp: 49436

Ion Ratio Lower Upper

62 100

64 30.9 26.7 40.1





#5

Bromomethane

Concen: 6.305 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

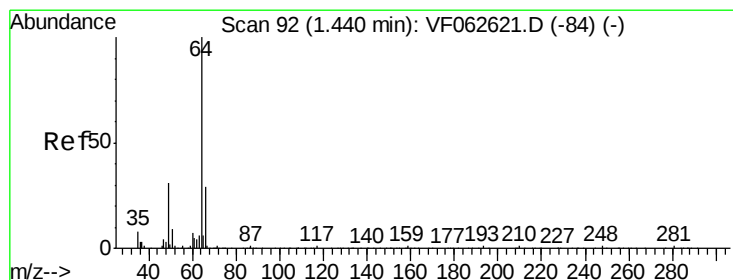
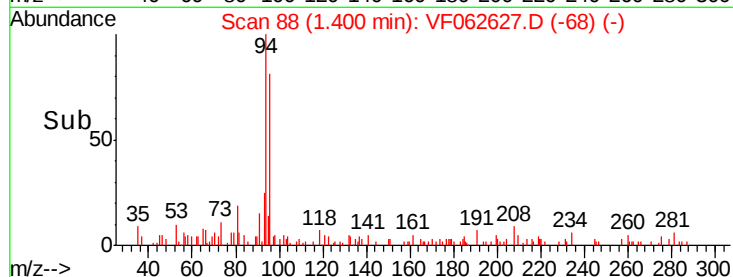
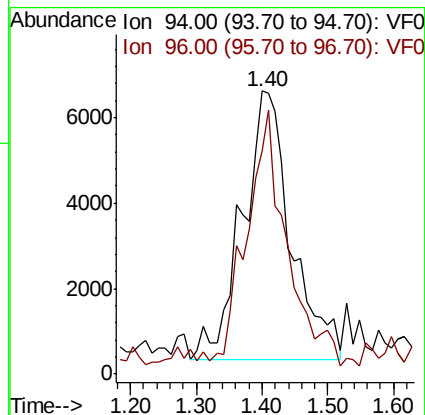
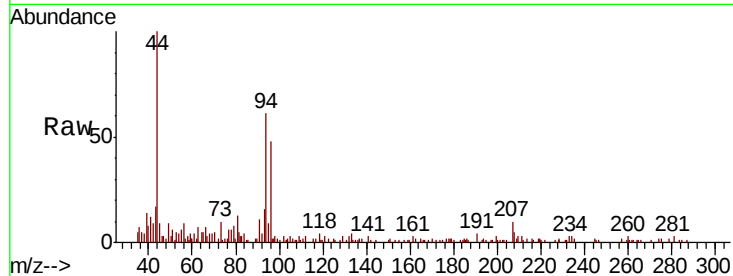
VSTDIC005

Tot Ion: 94 Resp: 32757

Ion Ratio Lower Upper

94 100

96 79.0 73.2 109.8



#6

Chloroethane

Concen: 6.102 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062627.D

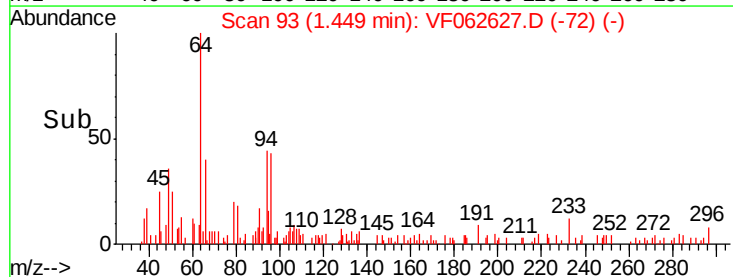
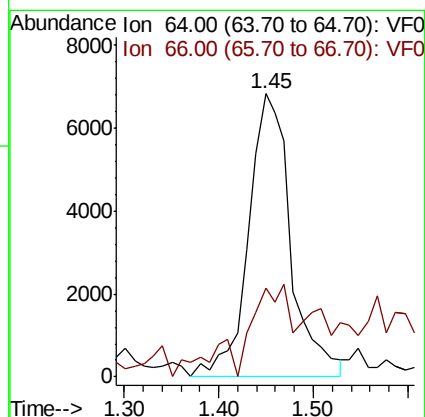
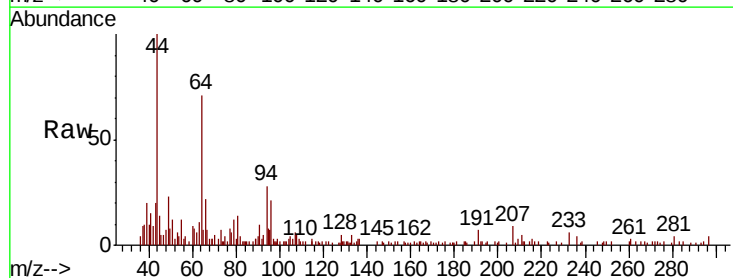
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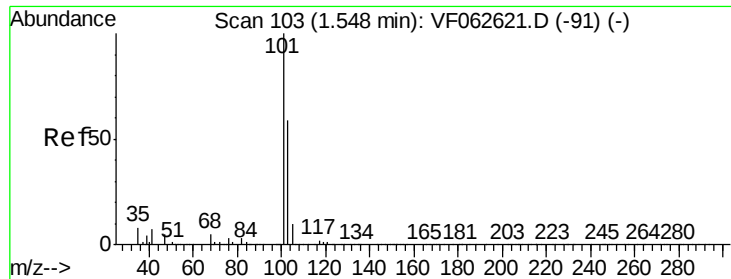
Tgt Ion: 64 Resp: 21282

Ion Ratio Lower Upper

64 100

66 31.6 23.4 35.2



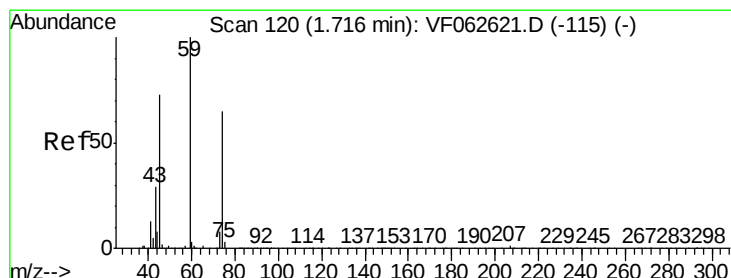
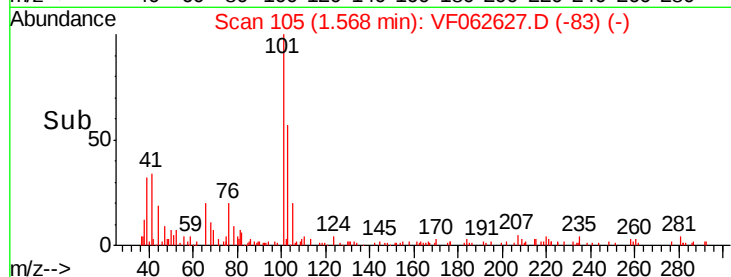
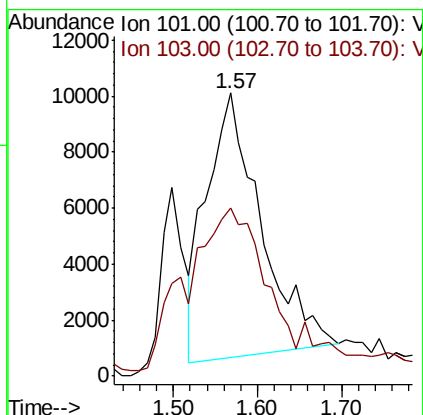
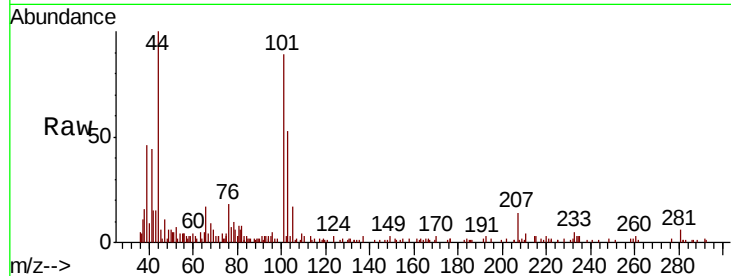


#7

Trichlorofluoromethane
 Concen: 3.551 ug/l
 RT: 1.57 min Scan# 105
 Delta R.T. 0.02 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

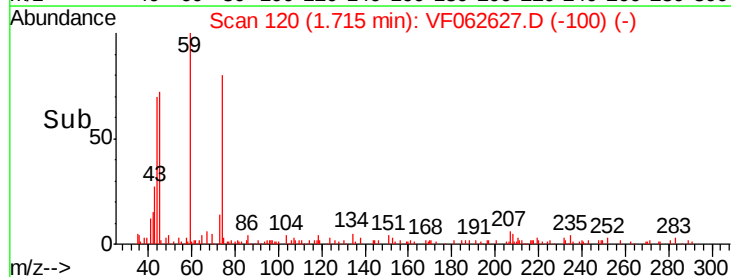
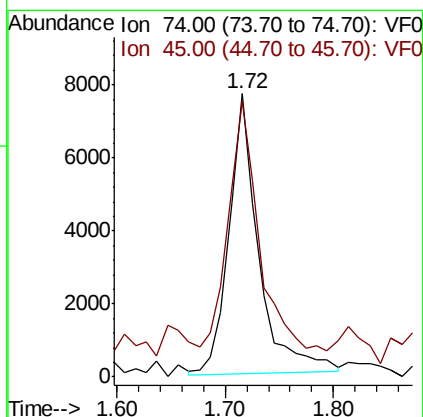
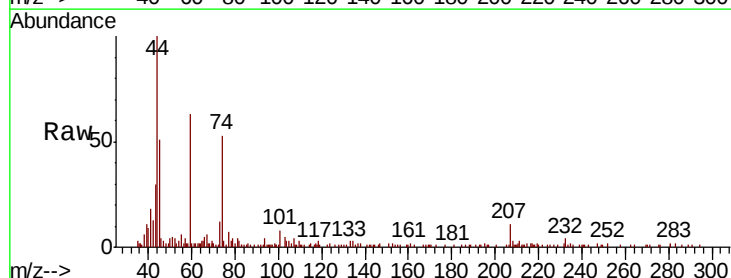
Tot Ion:101 Resp: 42659
 Ion Ratio Lower Upper
 101 100
 103 59.2 47.3 70.9

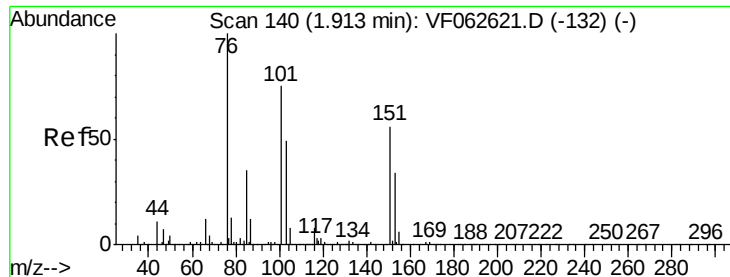


#8

Diethyl Ether
 Concen: 5.806 ug/l
 RT: 1.72 min Scan# 120
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion: 74 Resp: 14667
 Ion Ratio Lower Upper
 74 100
 45 97.5 57.0 170.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.423 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

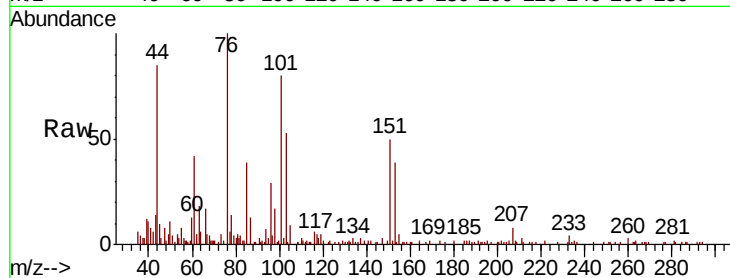
Tot Ion:101 Resp: 44031

Ion Ratio Lower Upper

101 100

85 49.4 37.1 55.7

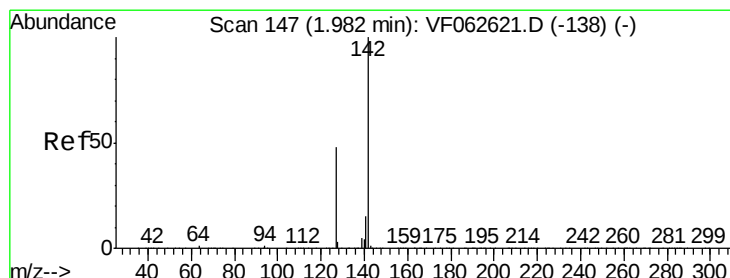
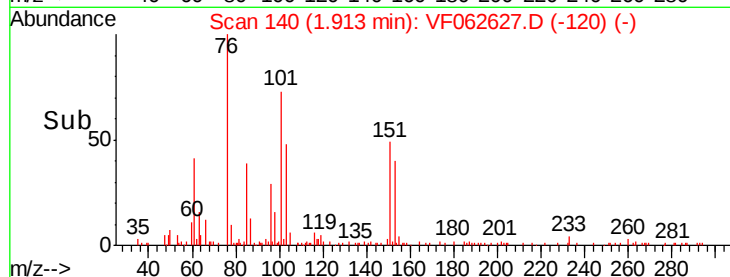
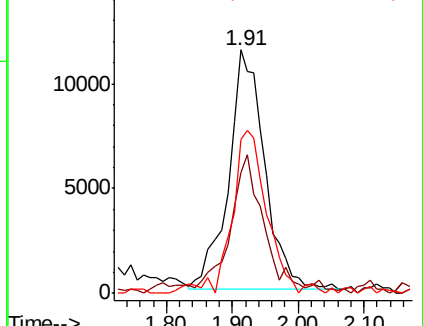
151 63.1 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 5.099 ug/l

RT: 1.99 min Scan# 148

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

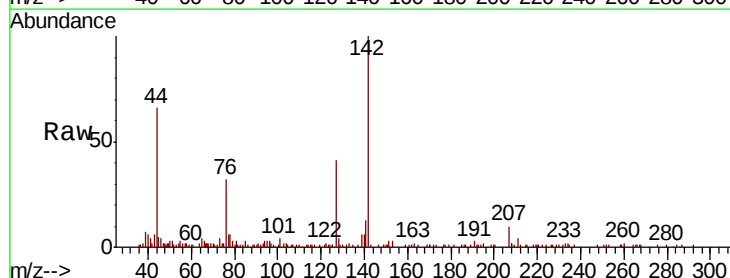
Tgt Ion:142 Resp: 81336

Ion Ratio Lower Upper

142 100

127 41.3 38.1 57.1

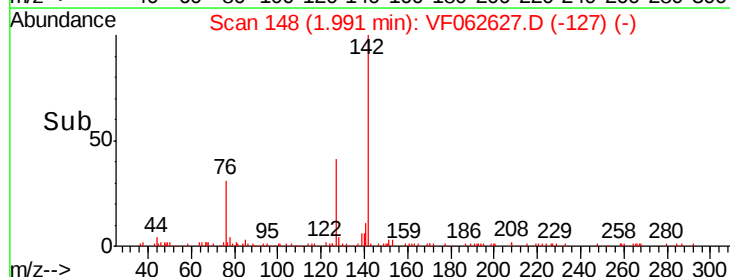
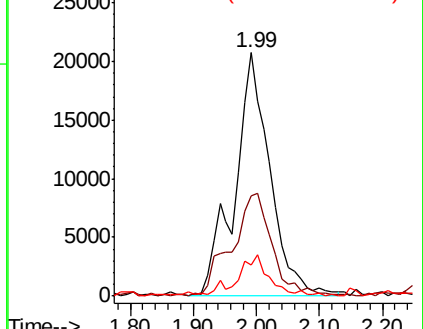
141 12.8 11.7 17.5

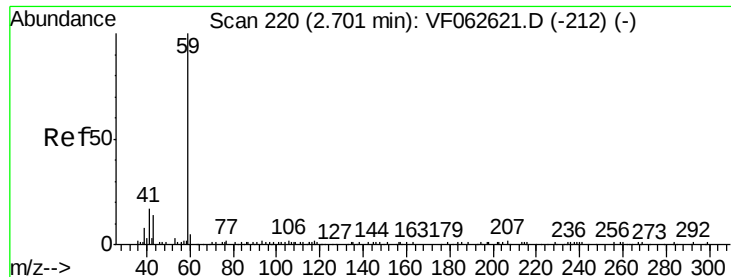


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



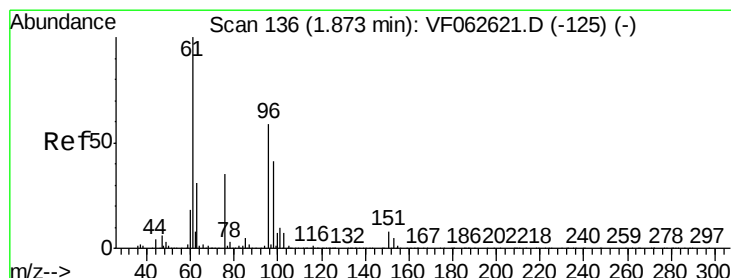
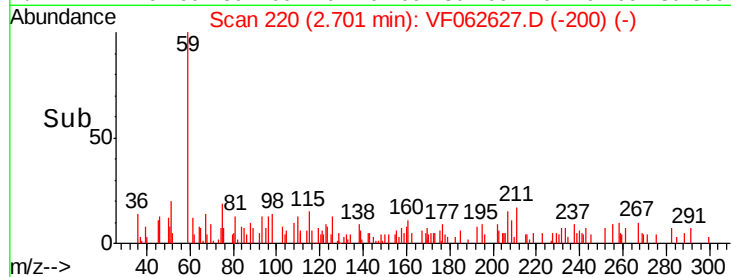
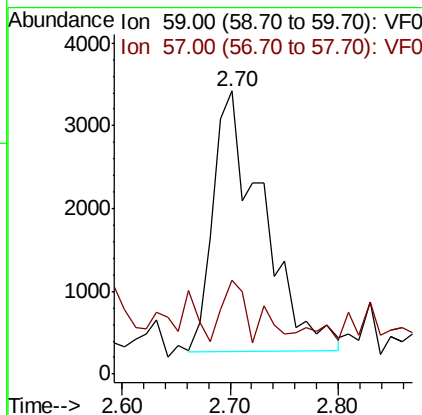
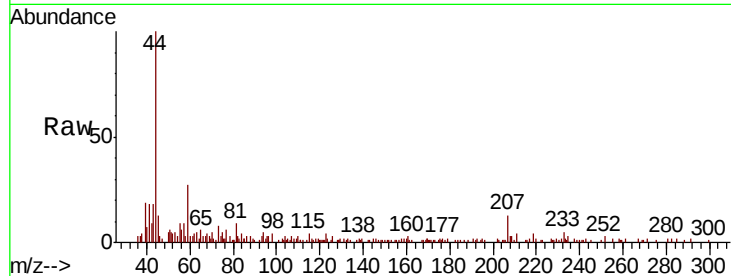


#11

Tert butyl alcohol
 Concen: 25.991 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

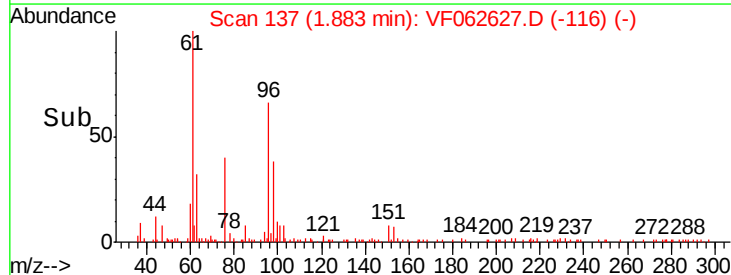
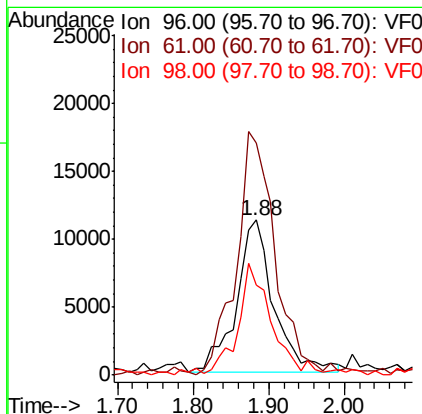
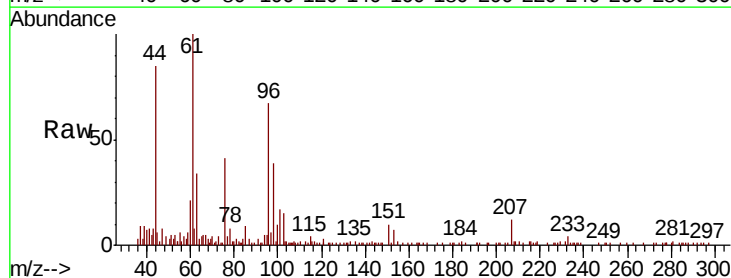
Tot Ion: 59 Resp: 9984
 Ion Ratio Lower Upper
 59 100
 57 33.3 9.3 13.9#

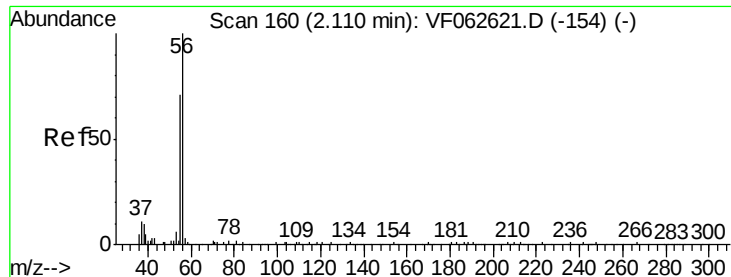


#12

1,1-Dichloroethene
 Concen: 5.161 ug/l
 RT: 1.88 min Scan# 137
 Delta R.T. 0.01 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion: 96 Resp: 38175
 Ion Ratio Lower Upper
 96 100
 61 149.4 134.3 201.5
 98 58.4 55.0 82.6





#13

Acrolein

Concen: 18.564 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

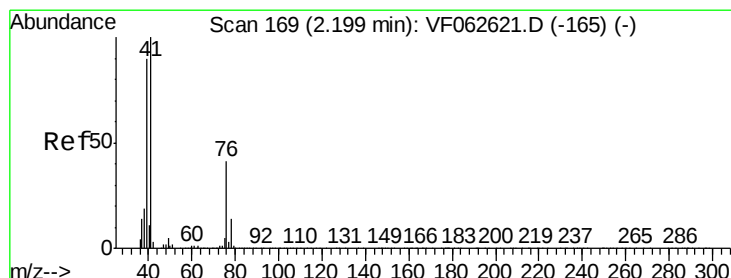
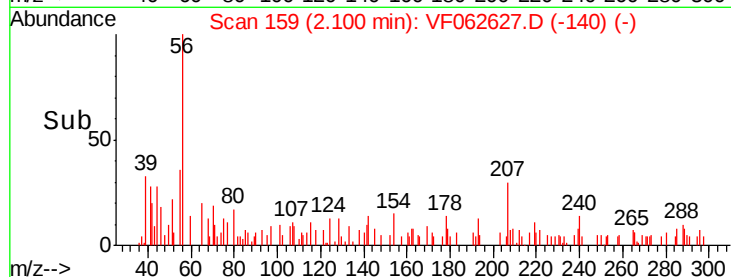
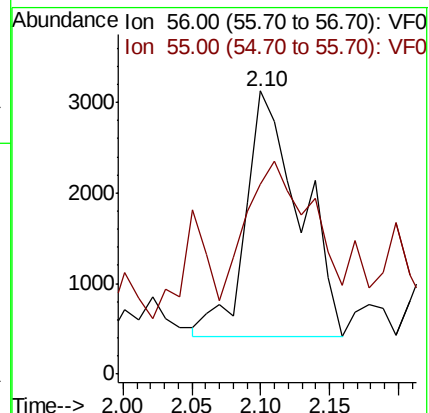
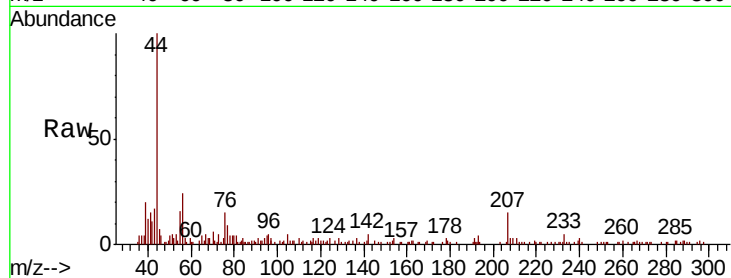
VSTDIC005

Tot Ion: 56 Resp: 7444

Ion Ratio Lower Upper

56 100

55 67.3 59.4 89.0



#14

Allyl chloride

Concen: 4.249 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

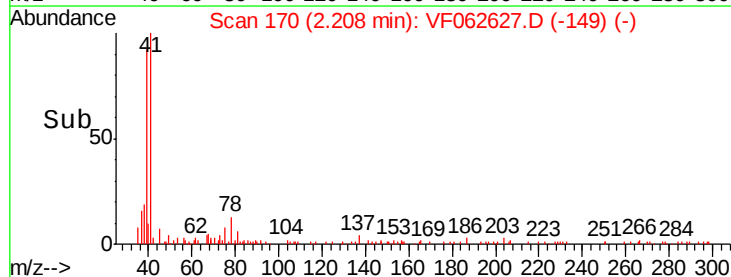
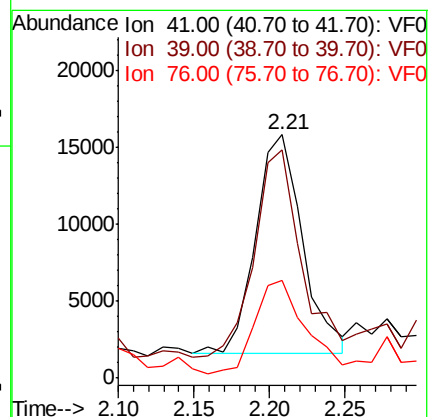
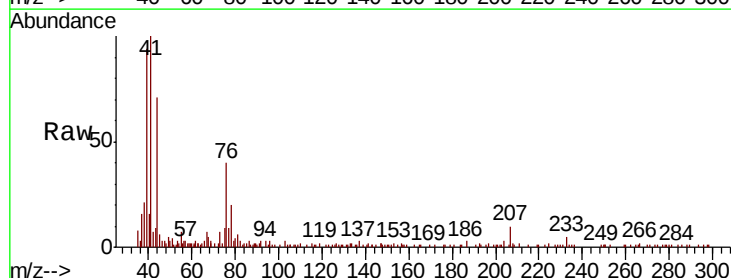
Tgt Ion: 41 Resp: 30882

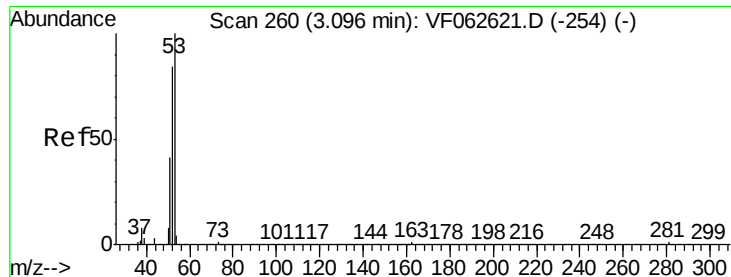
Ion Ratio Lower Upper

41 100

39 93.8 72.0 108.0

76 40.4 34.8 52.2





#15

Acrylonitrile

Concen: 26.576 ug/l

RT: 3.10 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

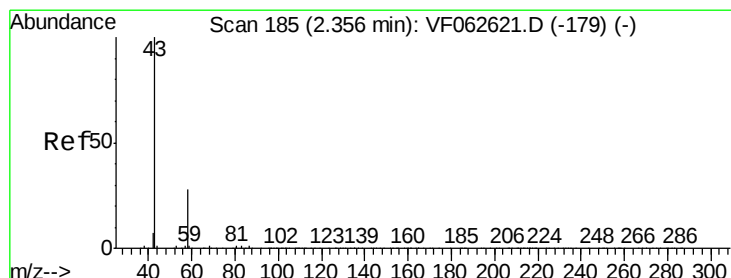
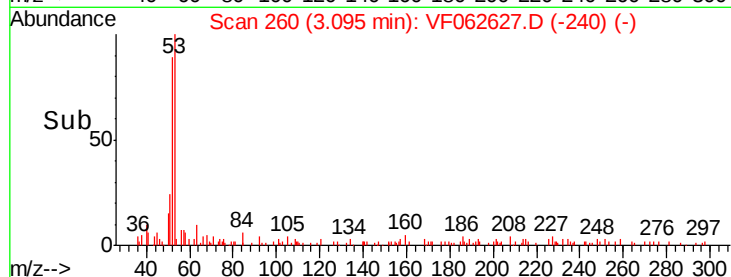
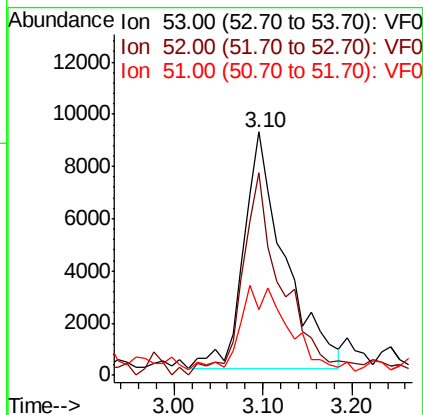
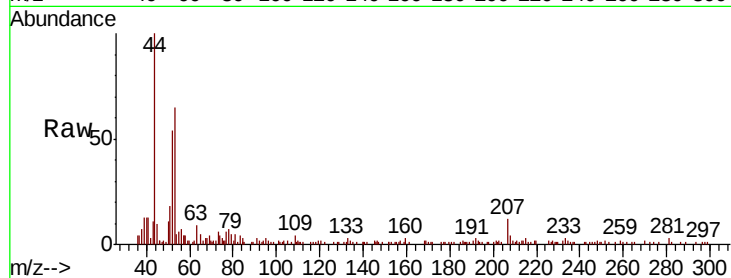
Tot Ion: 53 Resp: 28797

Ion Ratio Lower Upper

53 100

52 83.1 67.3 100.9

51 27.0 33.0 49.6#



#16

Acetone

Concen: 27.658 ug/l

RT: 2.36 min Scan# 185

Delta R.T. -0.00 min

Lab File: VF062627.D

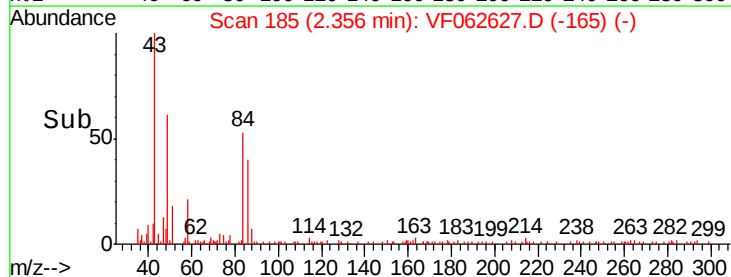
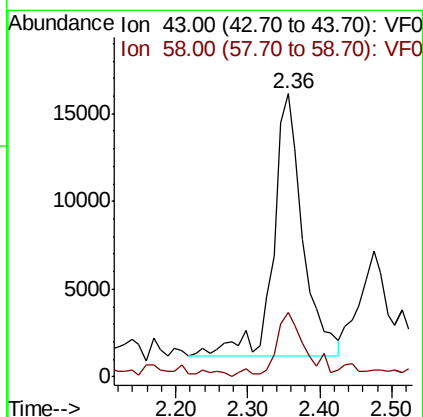
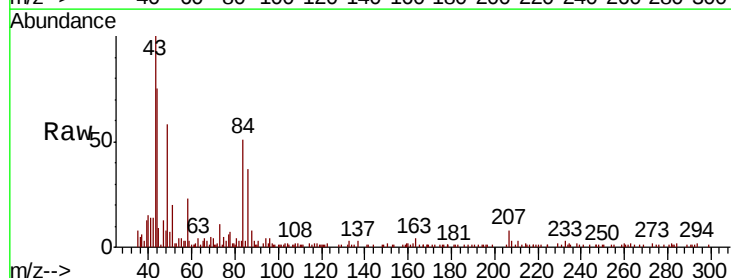
Acq: 16 May 2019 15:28

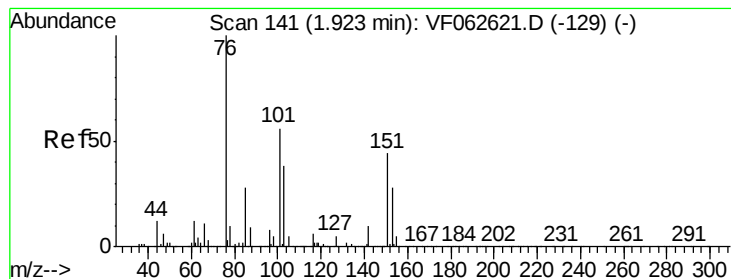
Tgt Ion: 43 Resp: 41749

Ion Ratio Lower Upper

43 100

58 22.6 22.6 33.8





#17

Carbon Disulfide

Concen: 5.286 ug/l

RT: 1.92 min Scan# 141

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

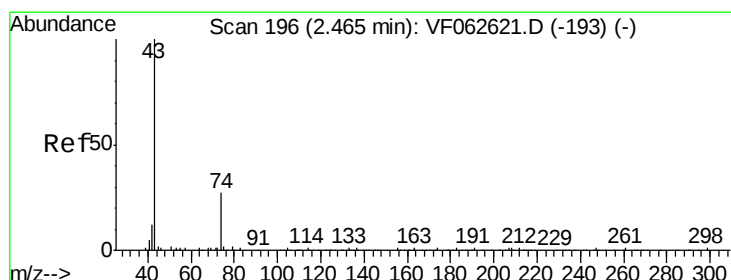
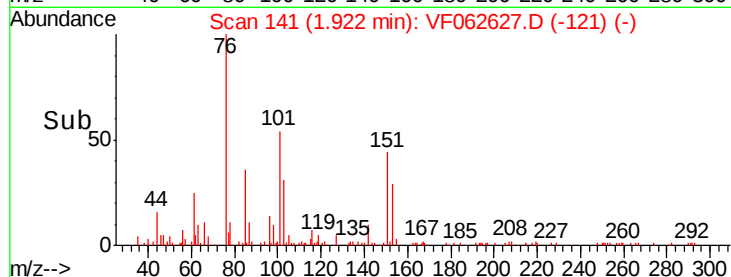
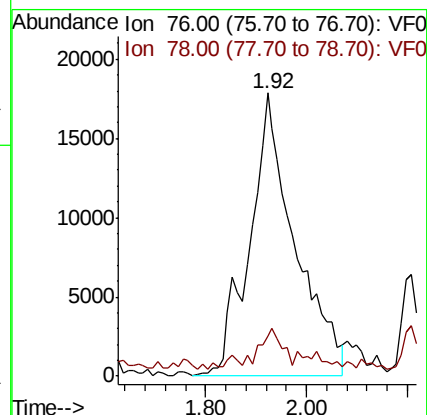
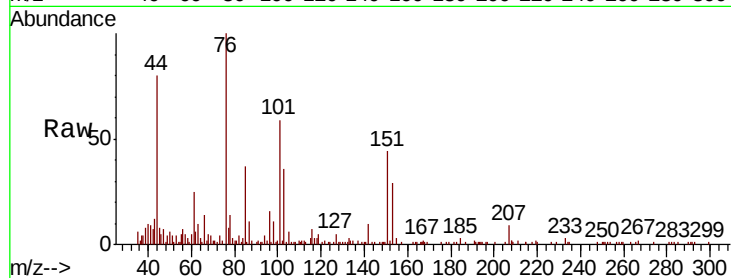
VSTDIC005

Tot Ion: 76 Resp: 111413

Ion Ratio Lower Upper

76 100

78 14.1 8.4 12.6#



#18

Methyl Acetate

Concen: 5.272 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062627.D

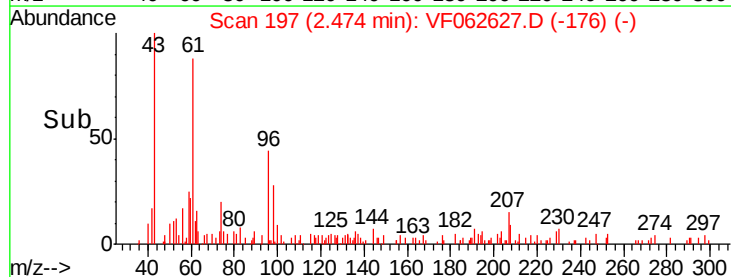
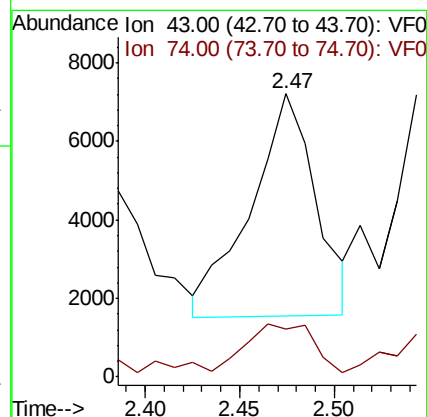
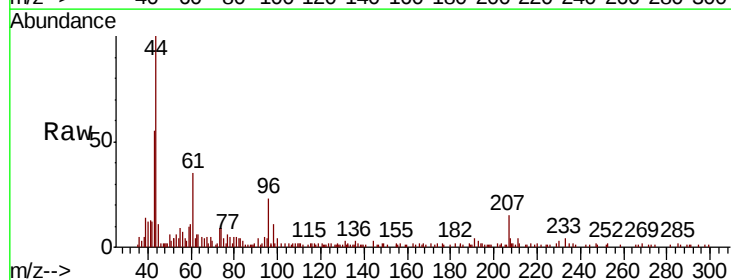
Acq: 16 May 2019 15:28

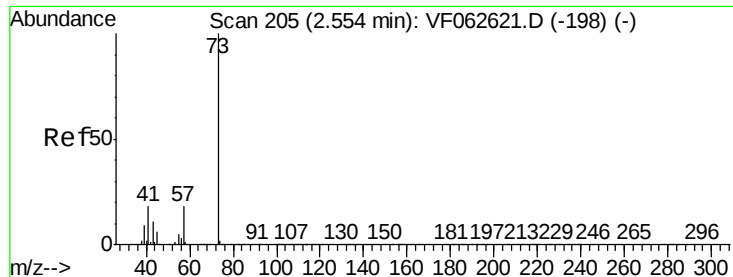
Tgt Ion: 43 Resp: 13600

Ion Ratio Lower Upper

43 100

74 17.1 18.9 28.3#

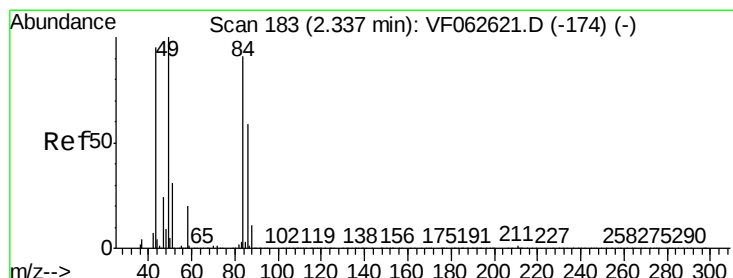
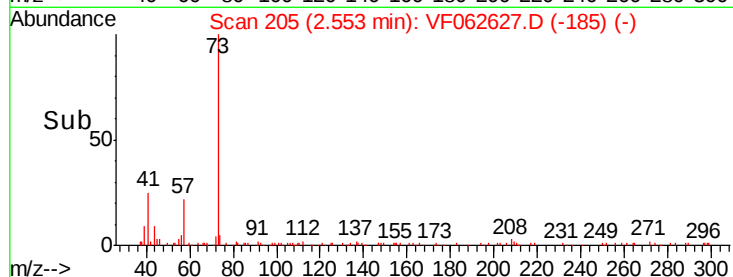
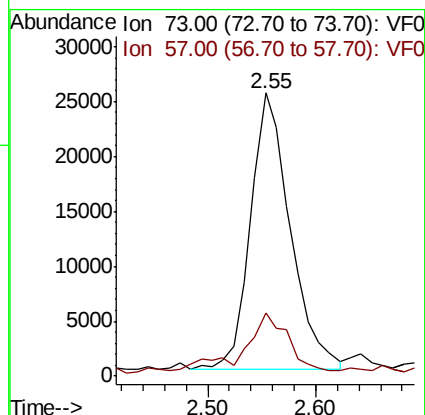
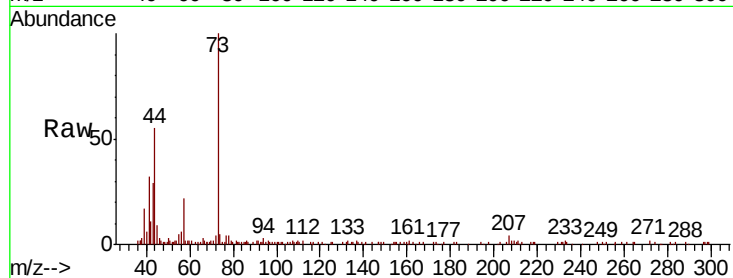




#19
Methvl tert-butvl Ether
Concen: 4.843 ug/l
RT: 2.55 min Scan# 205
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

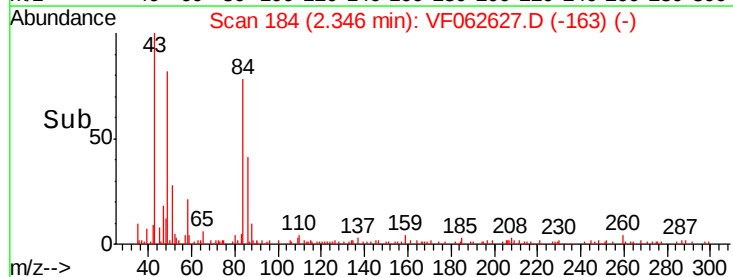
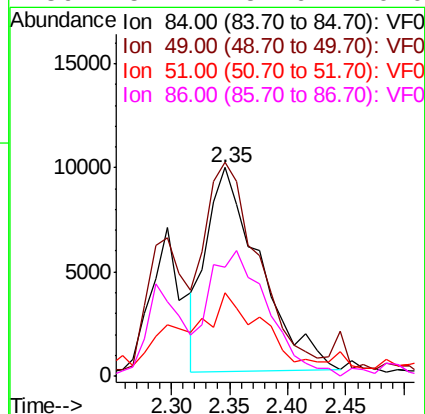
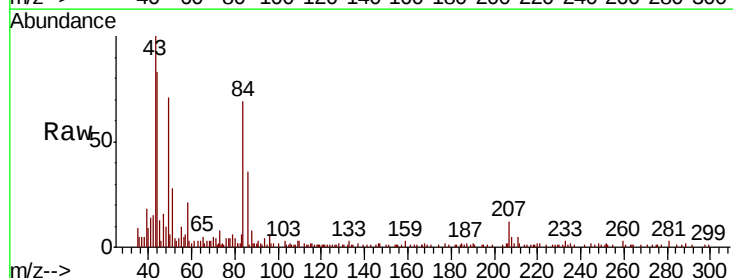
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

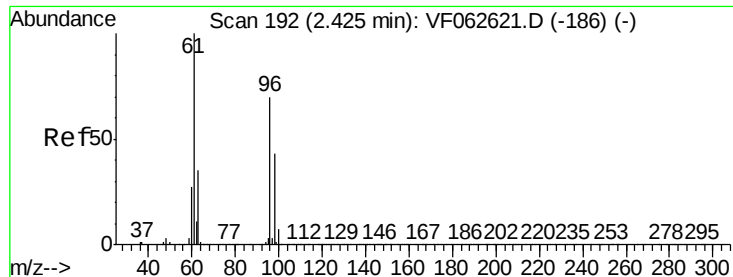
Tot Ion: 73 Resp: 64035
Ion Ratio Lower Upper
73 100
57 22.4 14.2 21.4#



#20
Methylene Chloride
Concen: 4.154 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion: 84 Resp: 31246
Ion Ratio Lower Upper
84 100
49 102.4 89.8 134.8
51 40.1 28.4 42.6
86 52.4 52.6 79.0#





#21

trans-1,2-Dichloroethene

Concen: 4.749 ug/l

RT: 2.44 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

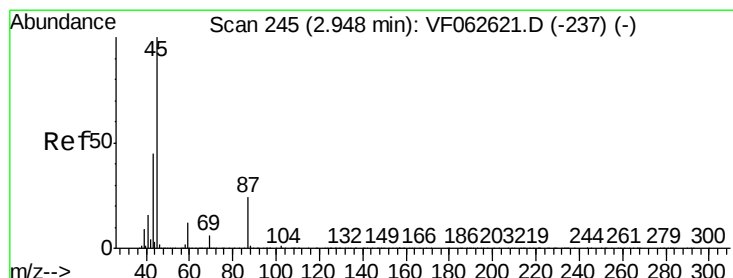
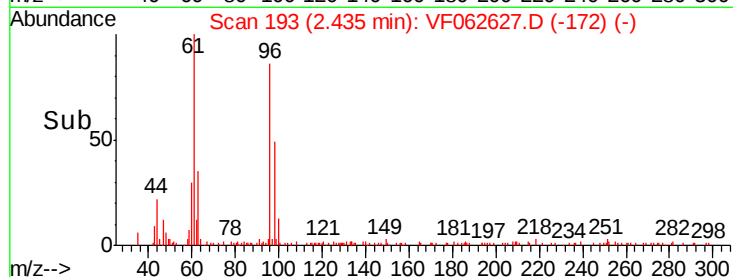
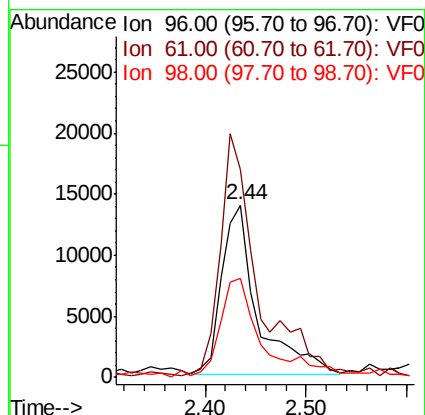
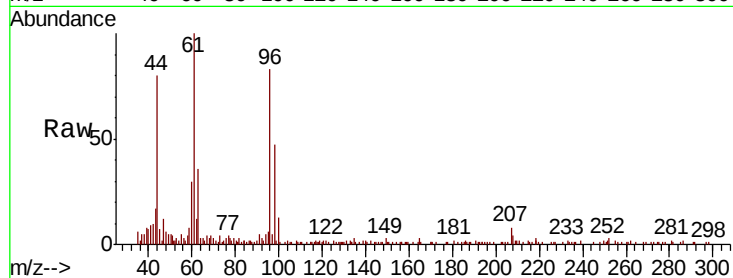
Tot Ion: 96 Resp: 34333

Ion Ratio Lower Upper

96 100

61 121.1 114.6 171.8

98 57.4 49.5 74.3



#22

Diisopropyl ether

Concen: 5.375 ug/l

RT: 2.95 min Scan# 245

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Tgt Ion: 45 Resp: 88754

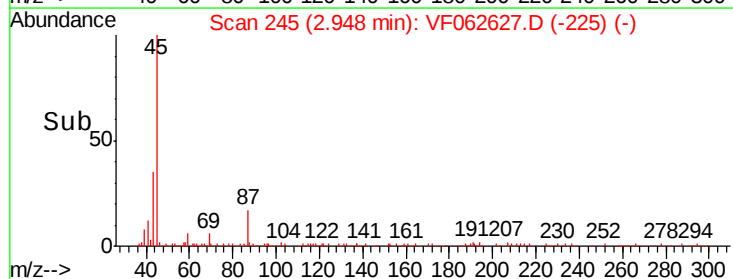
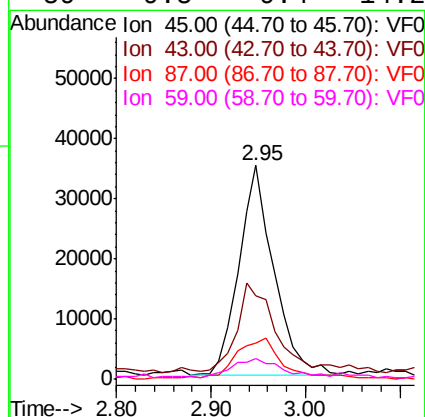
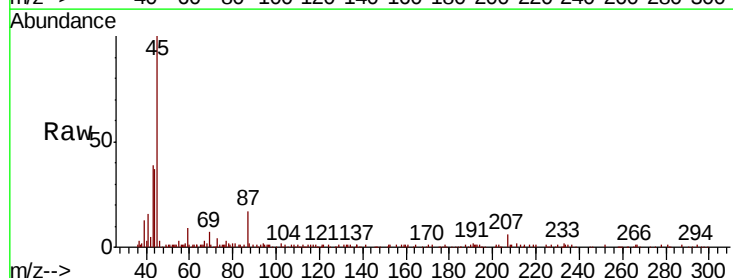
Ion Ratio Lower Upper

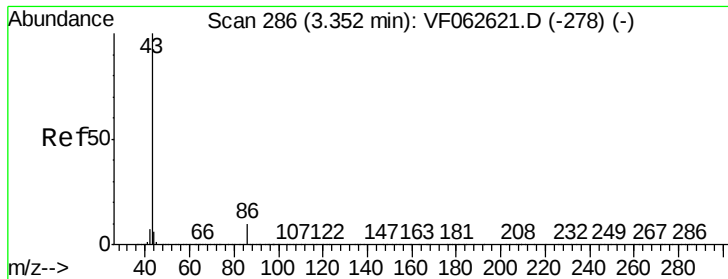
45 100

43 39.1 36.4 54.6

87 16.9 19.3 28.9#

59 9.5 9.4 14.2





#23

Vinyl Acetate

Concen: 25.539 ug/l

RT: 3.35 min Scan# 286

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

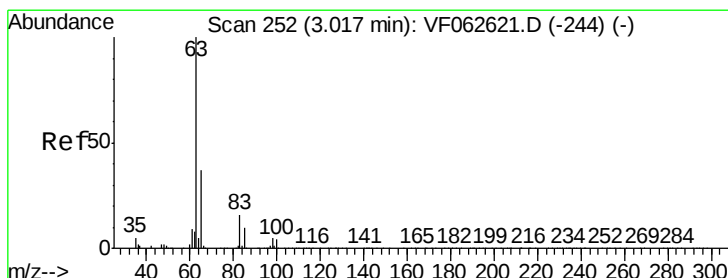
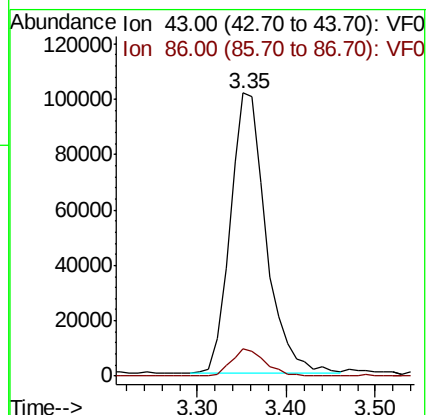
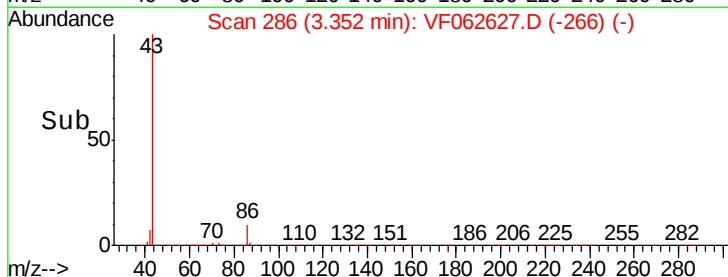
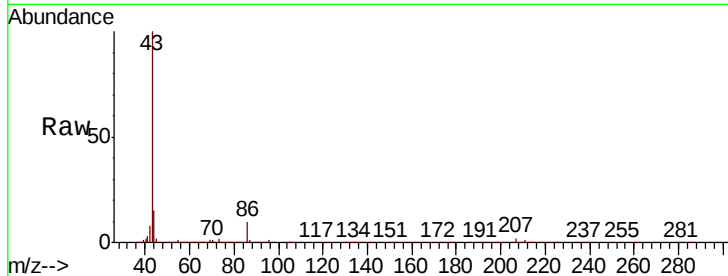
VSTDIC005

Tot Ion: 43 Resp: 284450

Ion Ratio Lower Upper

43 100

86 9.5 8.2 12.2



#24

1,1-Dichloroethane

Concen: 5.111 ug/l

RT: 3.02 min Scan# 252

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

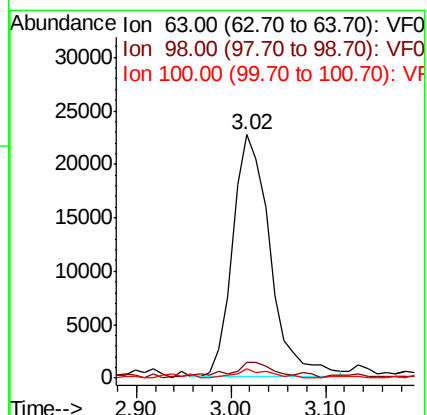
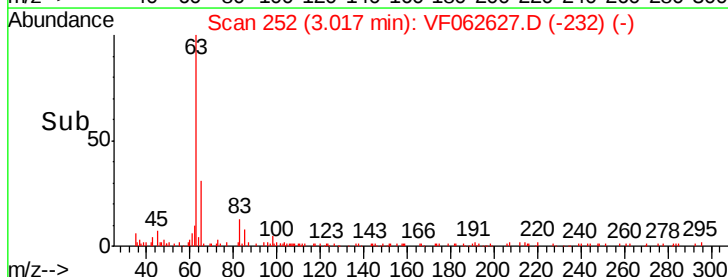
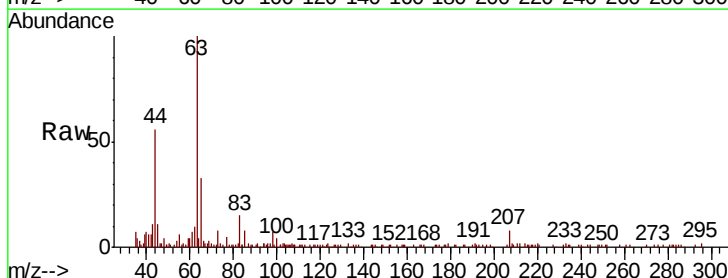
Tgt Ion: 63 Resp: 61903

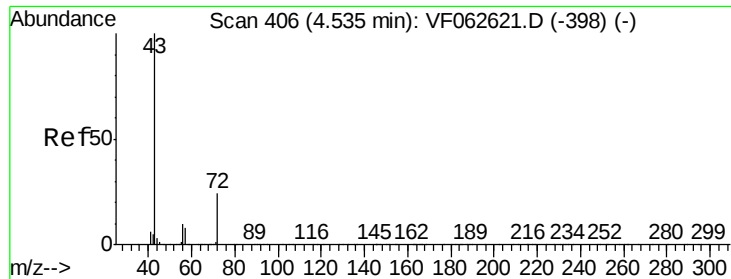
Ion Ratio Lower Upper

63 100

98 7.7 2.8 8.3

100 3.6 1.9 5.7





#25

2-Butanone

Concen: 26.361 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

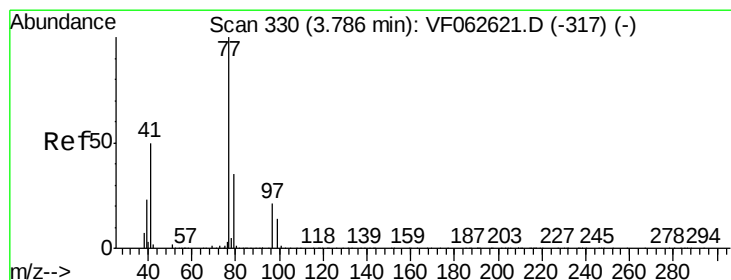
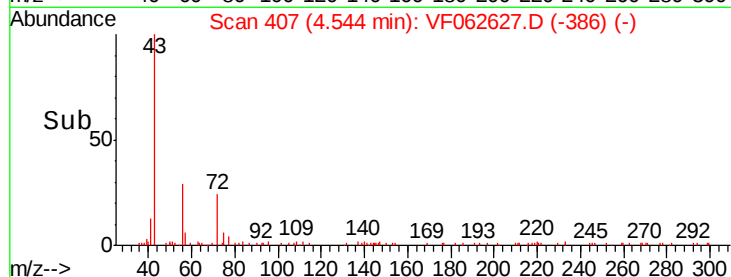
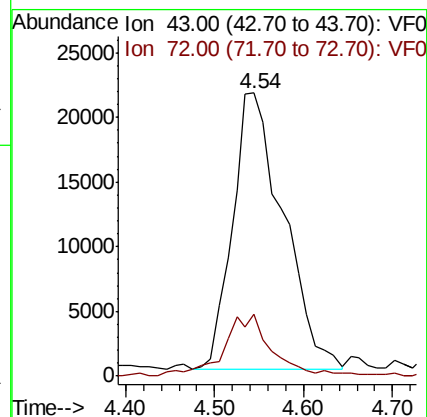
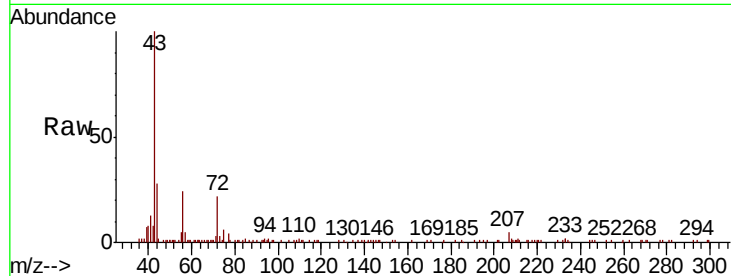
VSTDIC005

Tot Ion: 43 Resp: 85014

Ion Ratio Lower Upper

43 100

72 21.7 20.1 30.1



#26

2,2-Dichloropropane

Concen: 4.793 ug/l

RT: 3.79 min Scan# 330

Delta R.T. -0.00 min

Lab File: VF062627.D

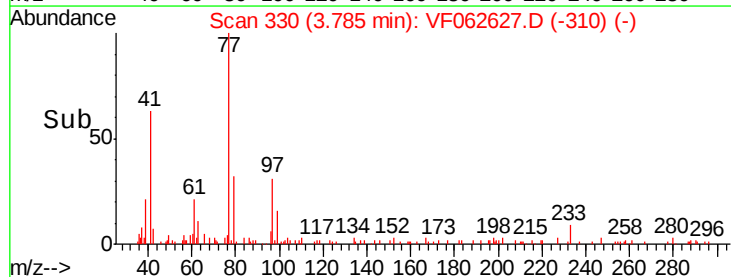
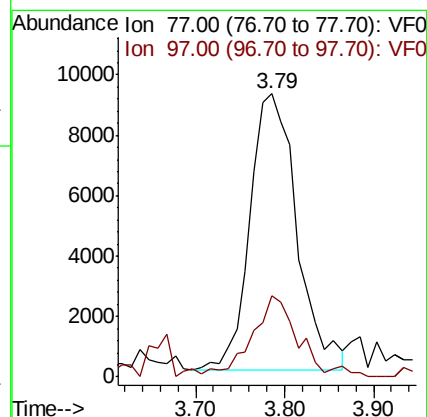
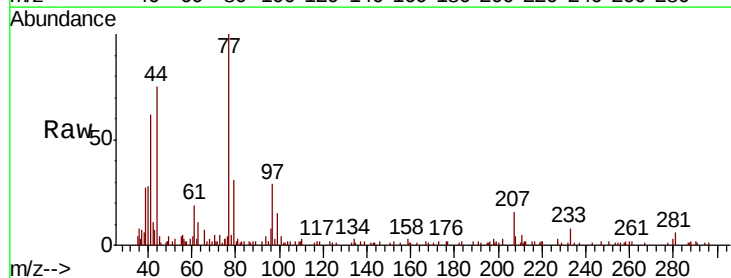
Acq: 16 May 2019 15:28

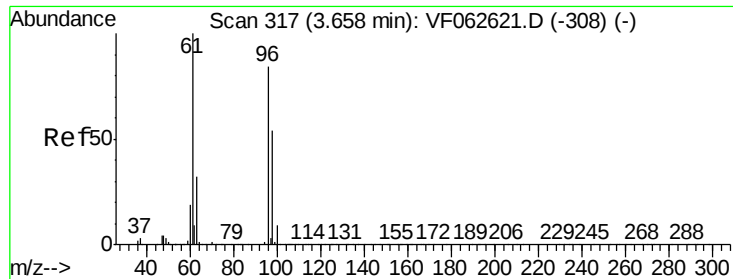
Tgt Ion: 77 Resp: 33214

Ion Ratio Lower Upper

77 100

97 28.7 14.1 42.4



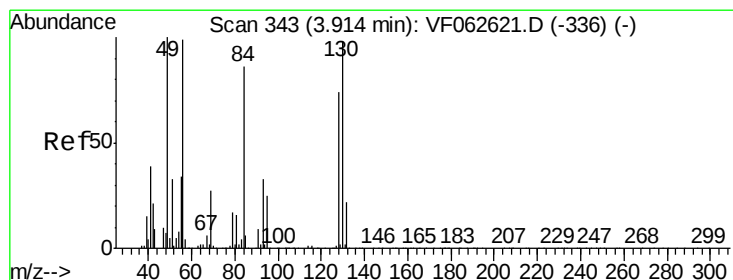
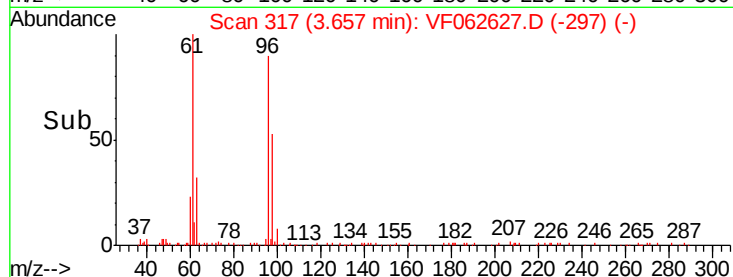
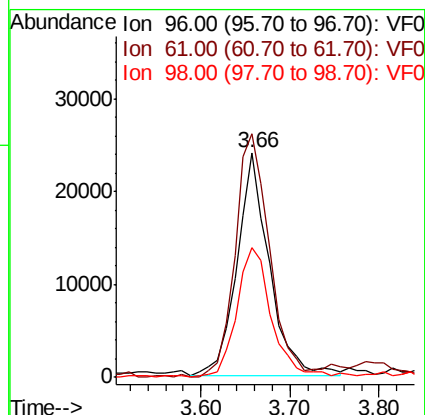
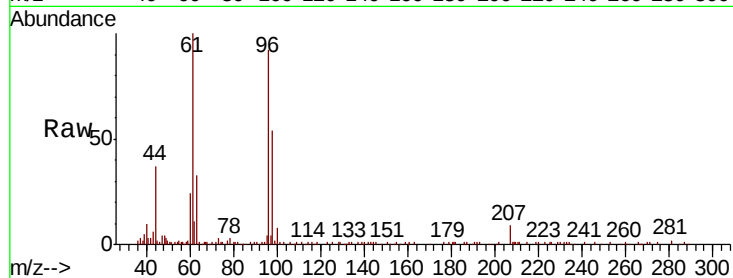


#27

cis-1,2-Dichloroethene
Concen: 5.091 ug/l
RT: 3.66 min Scan# 317
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

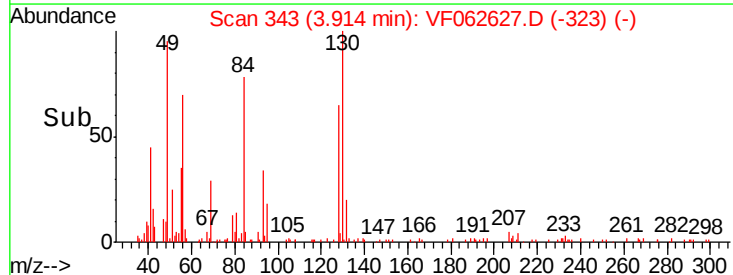
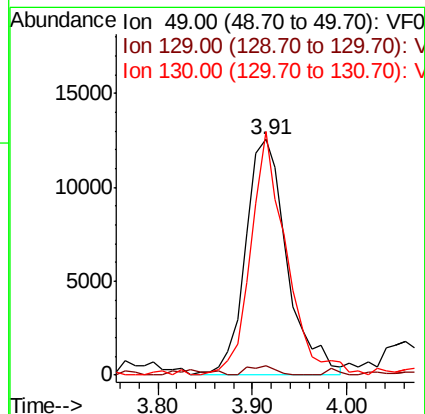
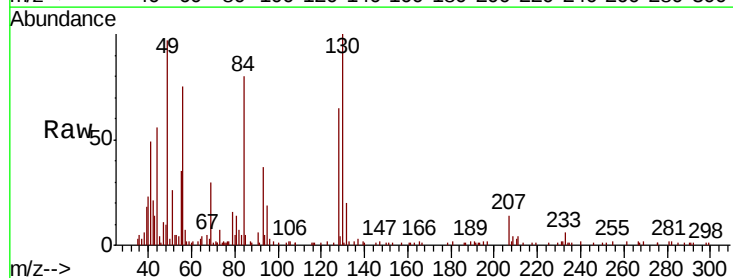
Tot Ion	Ratio	Lower	Upper
96	100		
61	108.3	0.0	237.4
98	58.0	0.0	129.0

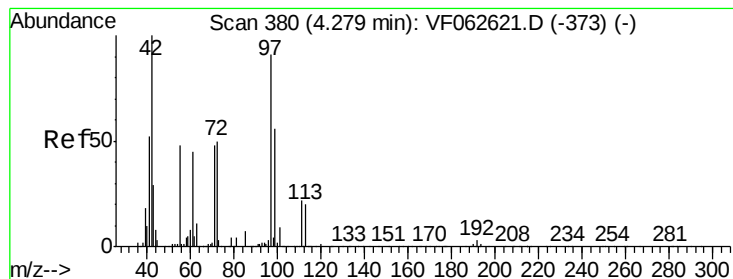


#28

Bromochloromethane
Concen: 5.660 ug/l
RT: 3.91 min Scan# 343
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
49	100		
129	4.1	0.0	4.0#
130	104.5	77.8	116.8





#29

Tetrahydrofuran

Concen: 25.955 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

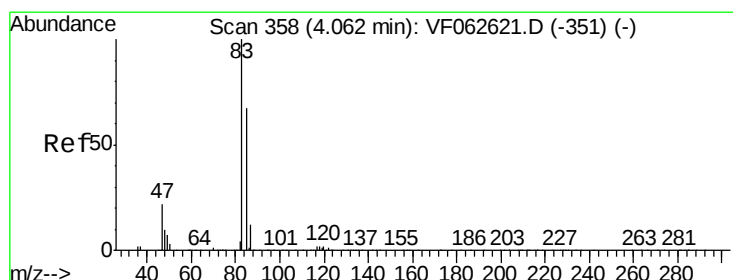
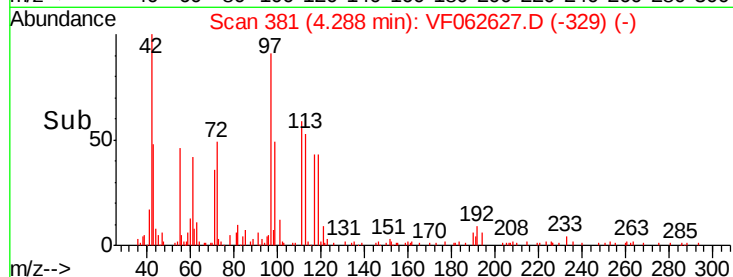
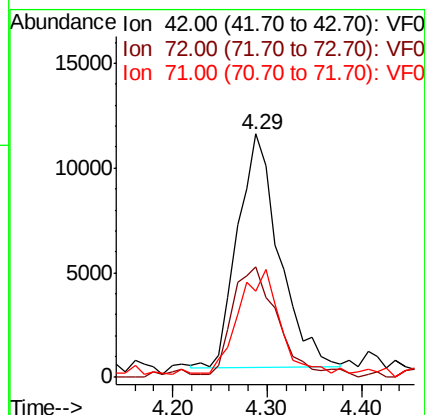
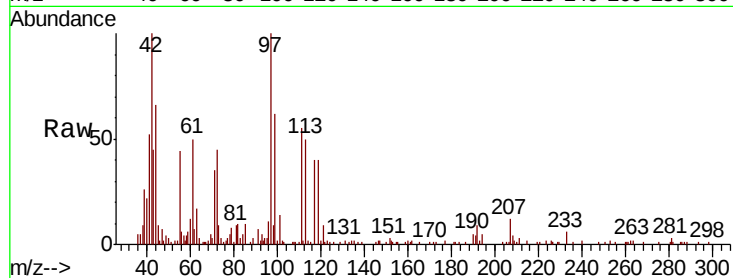
Tot Ion: 42 Resp: 33872

Ion Ratio Lower Upper

42 100

72 53.0 38.2 57.2

71 49.0 35.8 53.6



#30

Chloroform

Concen: 5.177 ug/l

RT: 4.06 min Scan# 358

Delta R.T. -0.00 min

Lab File: VF062627.D

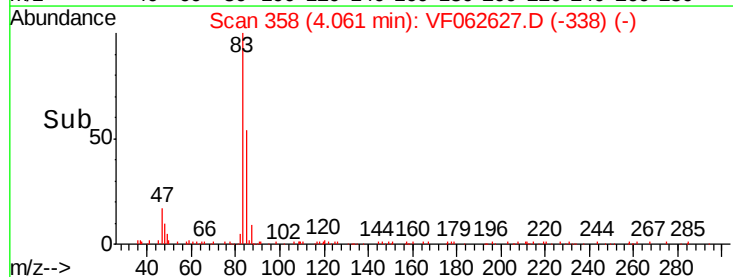
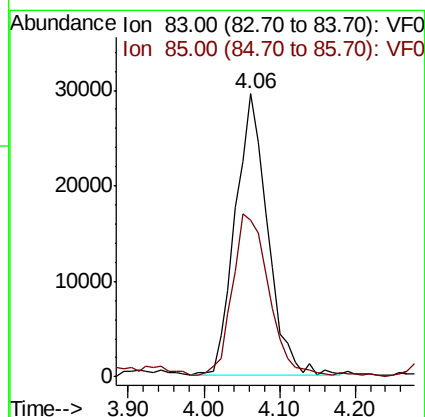
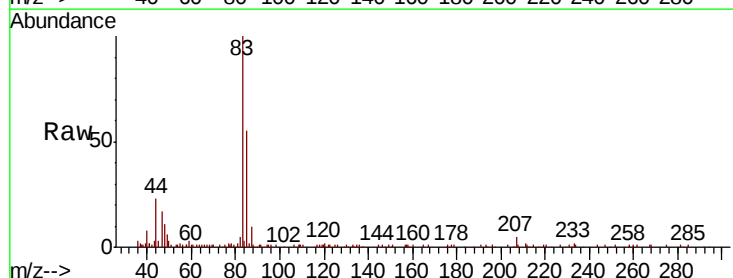
Acq: 16 May 2019 15:28

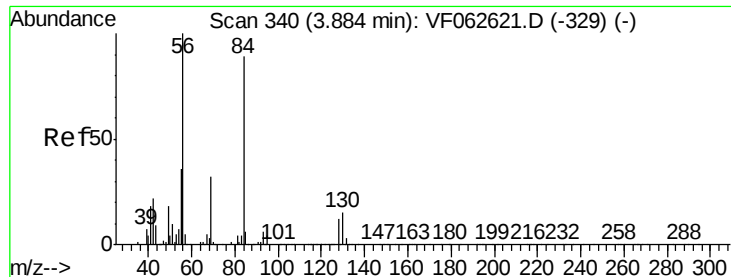
Tgt Ion: 83 Resp: 87064

Ion Ratio Lower Upper

83 100

85 55.1 53.6 80.4

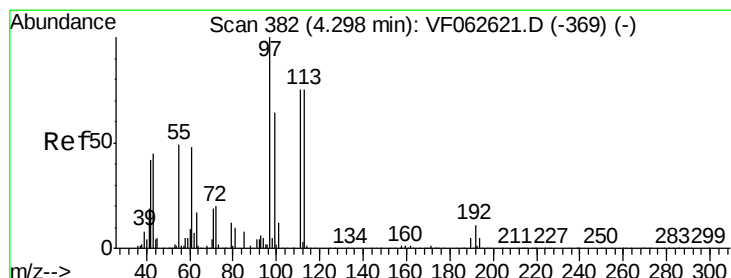
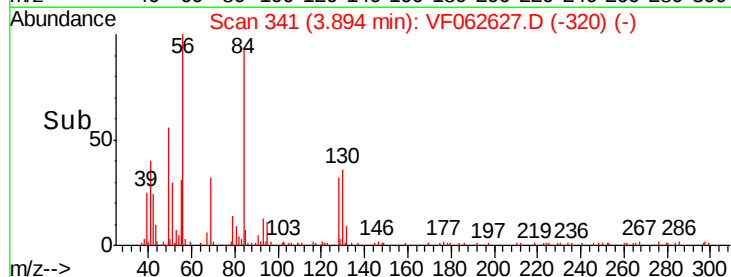
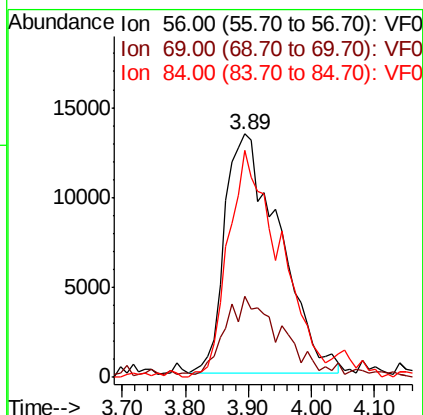
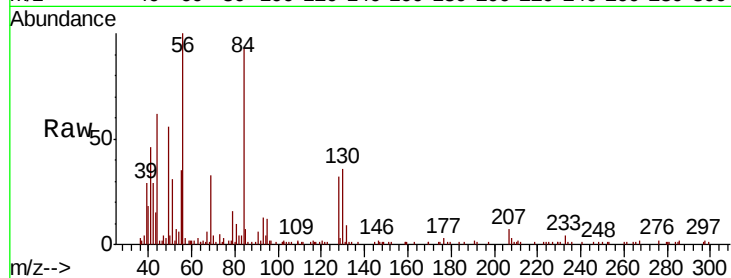




#31
Cyclohexane
Concen: 5.295 ug/l
RT: 3.89 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

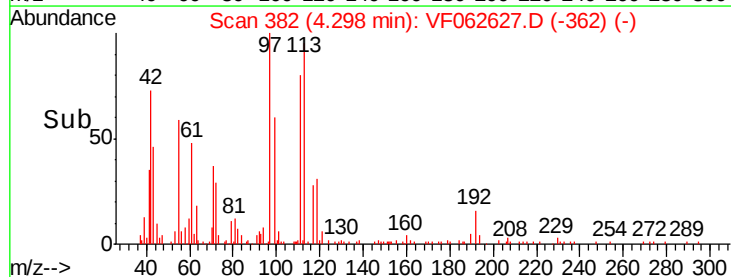
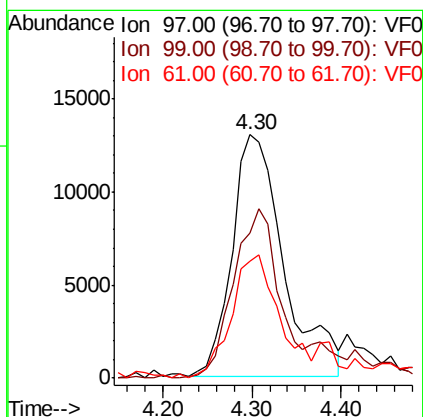
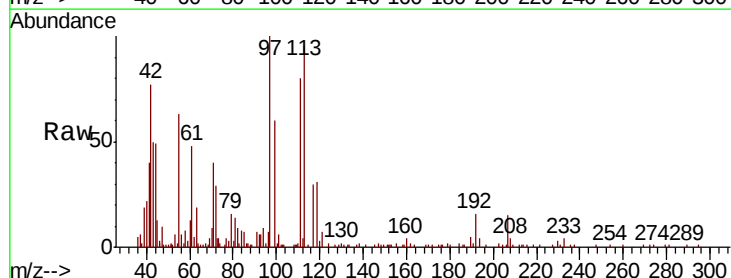
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

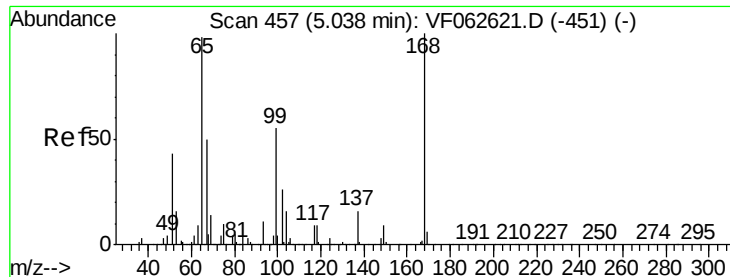
Tot Ion	Ratio	Lower	Upper
56	100		
69	33.3	25.3	37.9
84	93.1	71.0	106.4



#32
1,1,1-Trichloroethane
Concen: 4.720 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.6	51.3	76.9
61	48.1	38.2	57.2





#33

1,2-Dichloroethane-d4

Concen: 6.245 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

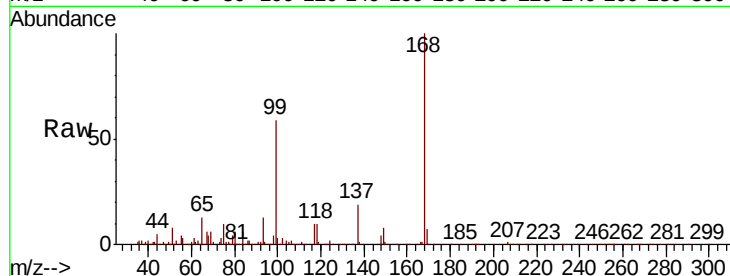
VSTDIC005

Tot Ion: 65 Resp: 36337

Ion Ratio Lower Upper

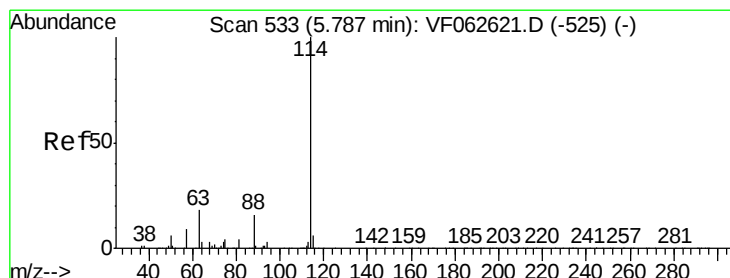
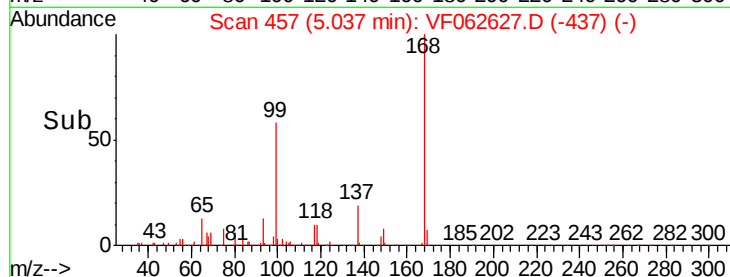
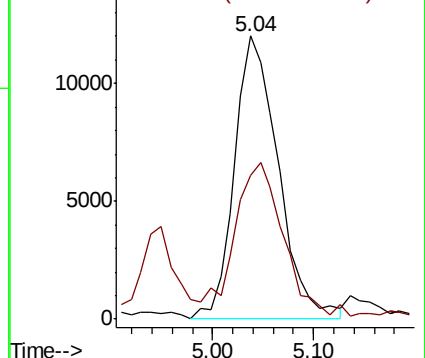
65 100

67 50.9 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

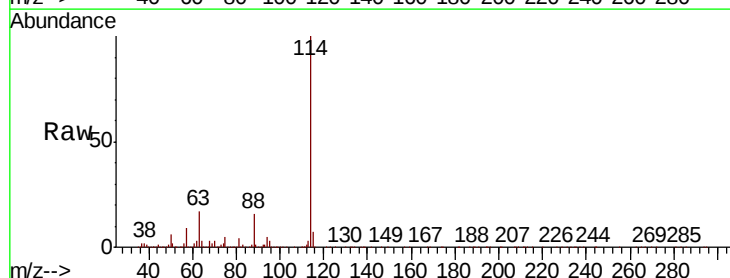
Tgt Ion: 114 Resp: 1335643

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.4

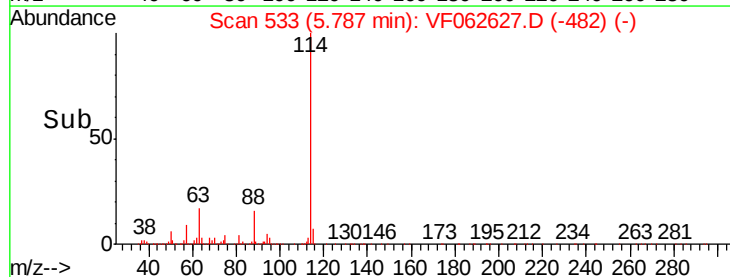
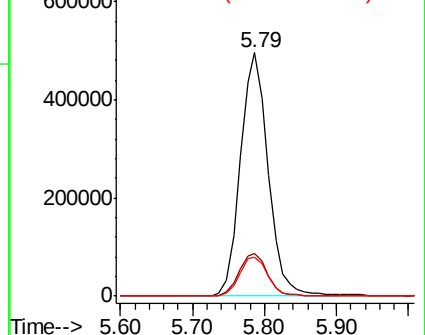
88 16.1 0.0 32.4

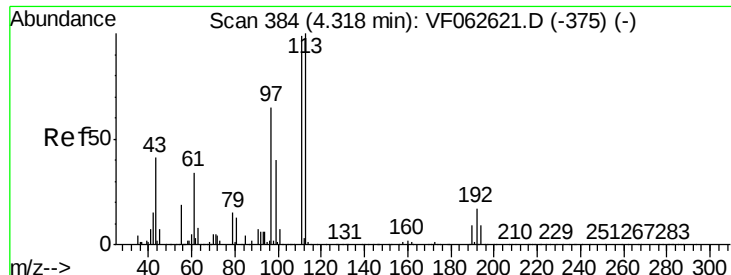


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

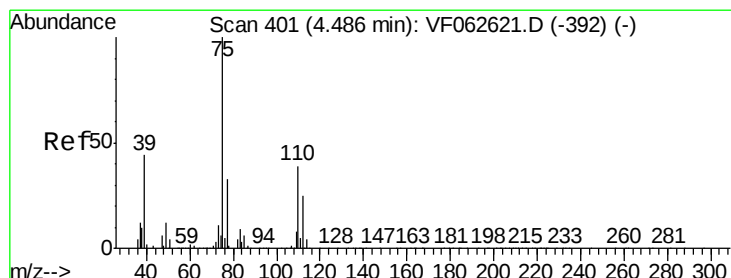
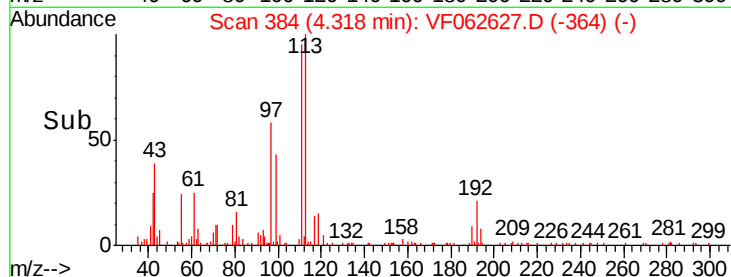
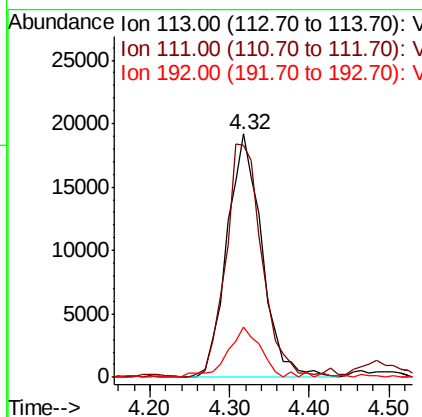
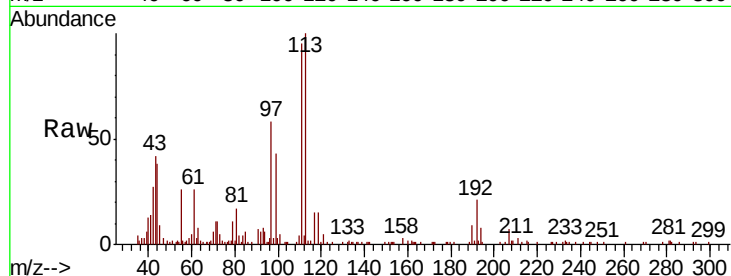




#35
 Dibromofluoromethane
 Concen: 5.731 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

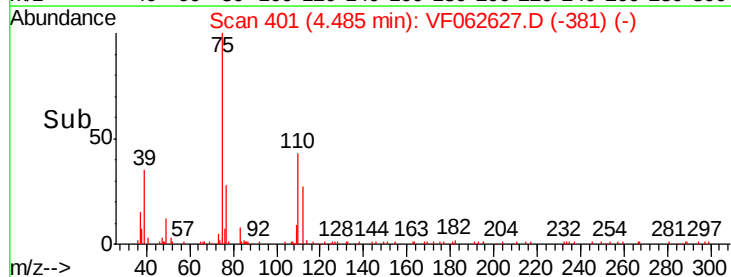
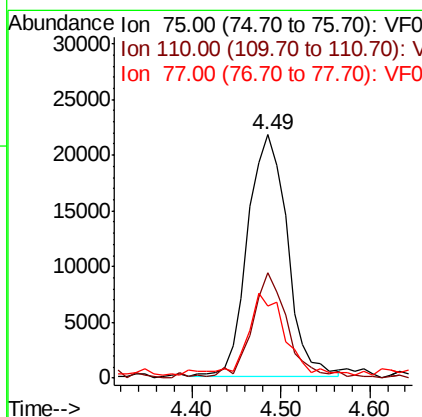
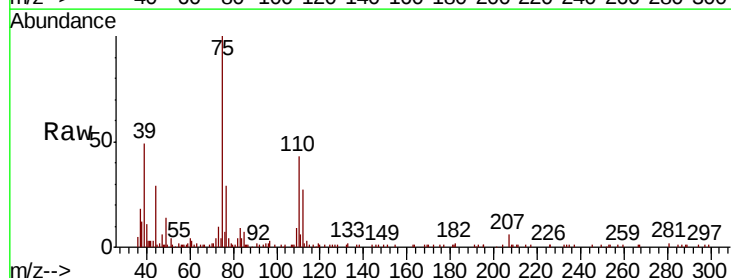
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion:113 Resp: 58573
 Ion Ratio Lower Upper
 113 100
 111 95.2 79.4 119.2
 192 20.9 13.4 20.2#



#36
 1,1-Dichloropropene
 Concen: 4.855 ug/l
 RT: 4.49 min Scan# 401
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion: 75 Resp: 66444
 Ion Ratio Lower Upper
 75 100
 110 43.2 19.7 59.1
 77 29.5 26.3 39.5

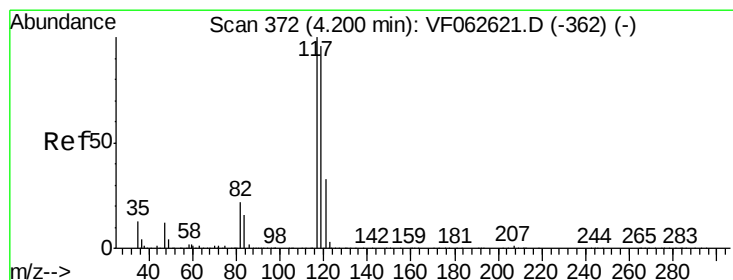
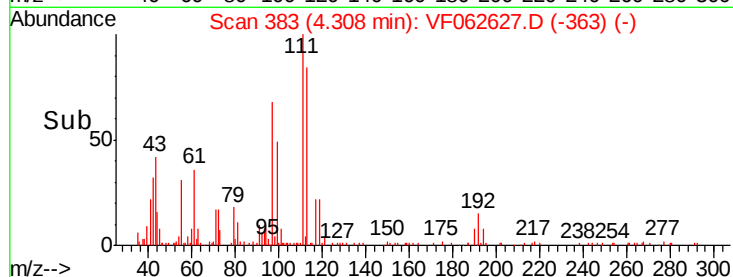
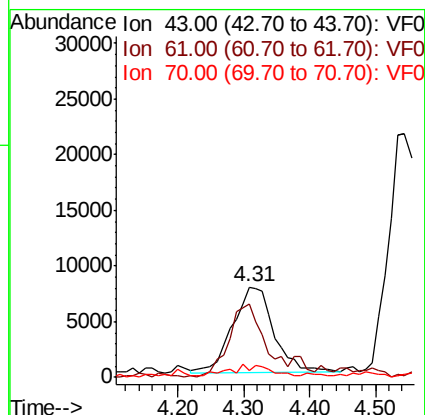
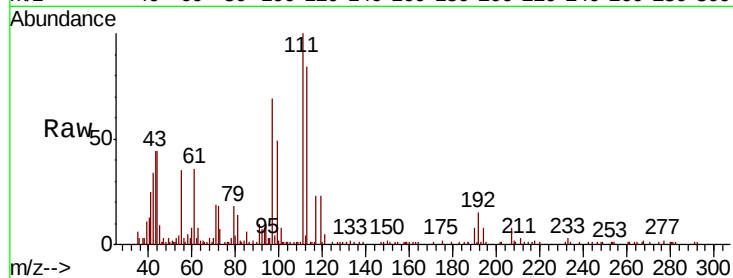




#37
Ethyl Acetate
Concen: 5.947 ug/l
RT: 4.31 min Scan# 383
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

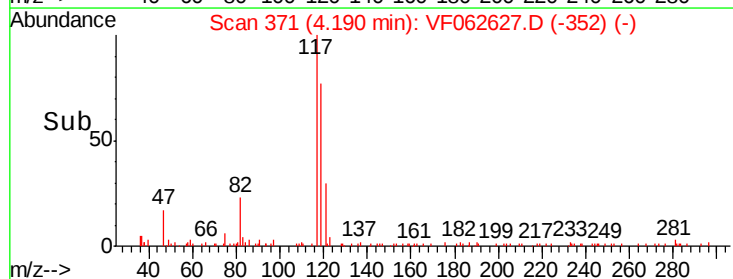
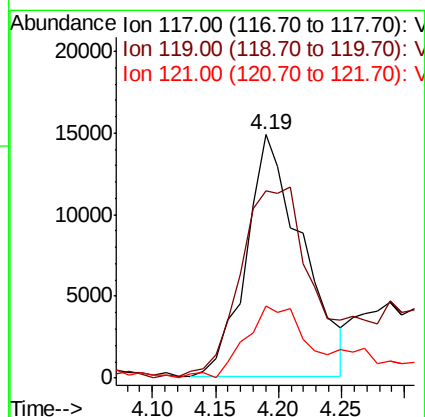
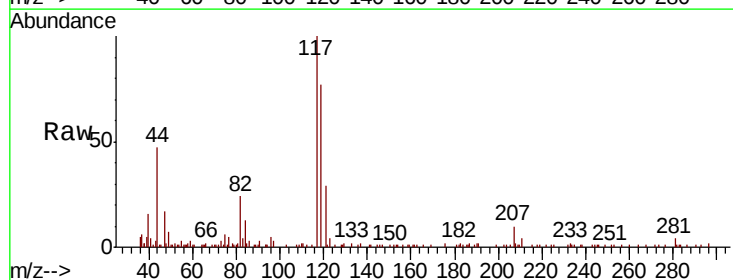
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

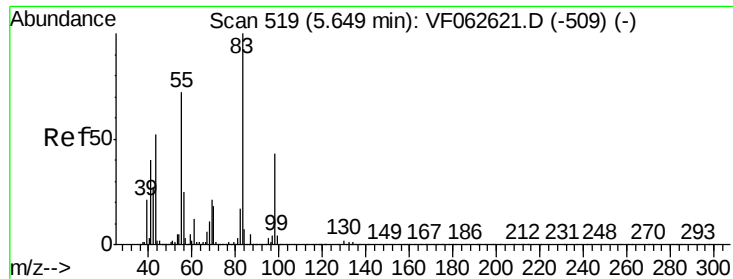
Tot Ion: 43 Resp: 33232
Ion Ratio Lower Upper
43 100
61 81.2 76.9 115.3
70 7.2 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 4.755 ug/l
RT: 4.19 min Scan# 371
Delta R.T. -0.01 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion: 117 Resp: 45851
Ion Ratio Lower Upper
117 100
119 77.1 76.7 115.1
121 29.4 26.6 40.0

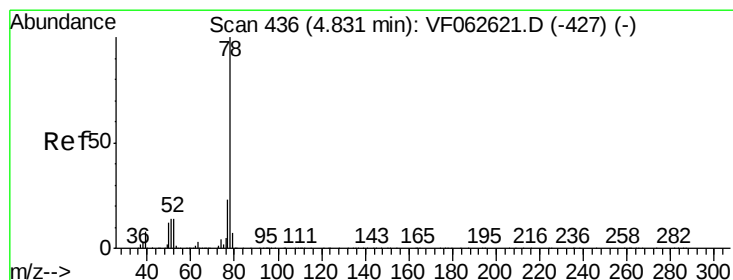
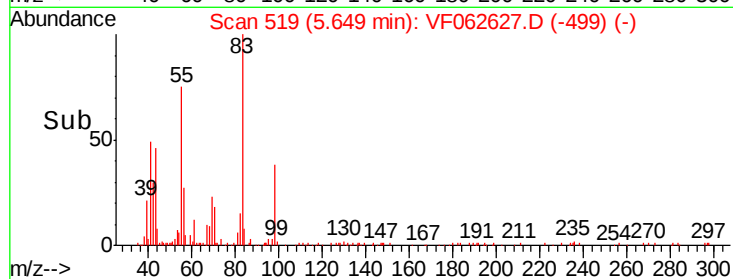
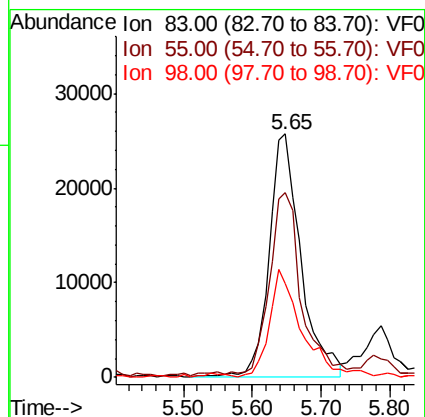
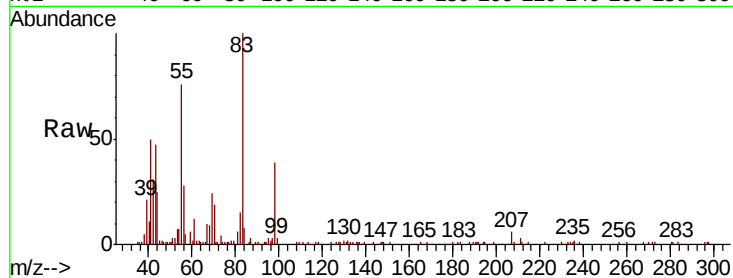




#39
Methylcyclohexane
Concen: 5.055 ug/l
RT: 5.65 min Scan# 519
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

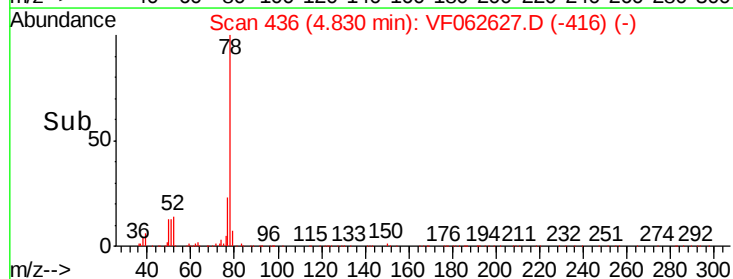
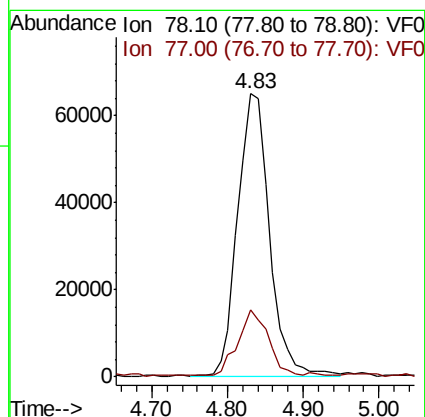
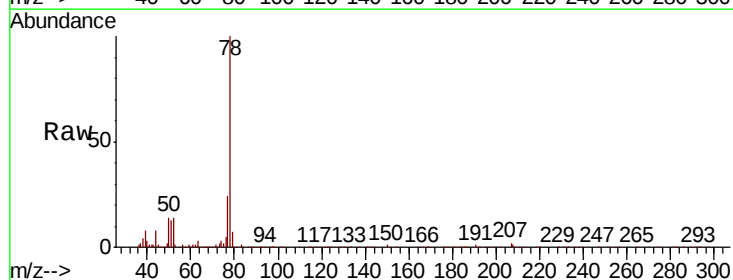
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

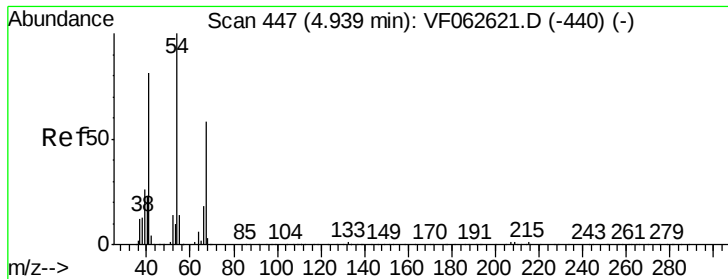
Tot Ion: 83 Resp: 83240
Ion Ratio Lower Upper
83 100
55 76.0 57.9 86.9
98 38.5 34.6 52.0



#40
Benzene
Concen: 5.072 ug/l
RT: 4.83 min Scan# 436
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion: 78 Resp: 189108
Ion Ratio Lower Upper
78 100
77 23.9 18.2 27.2

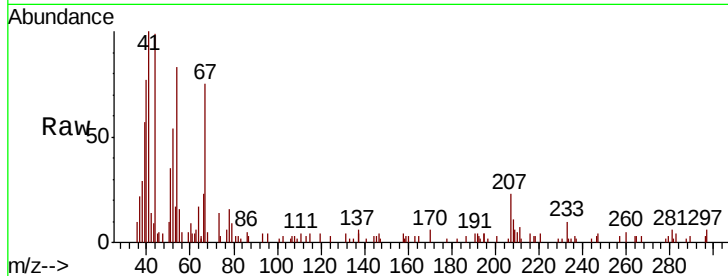




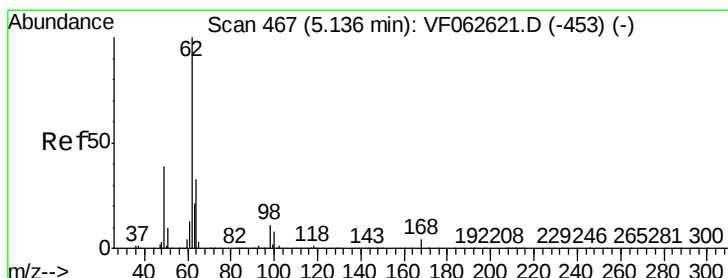
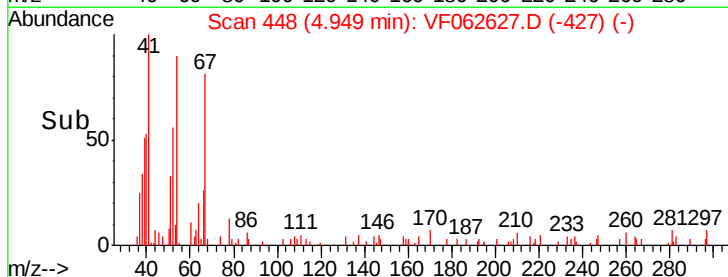
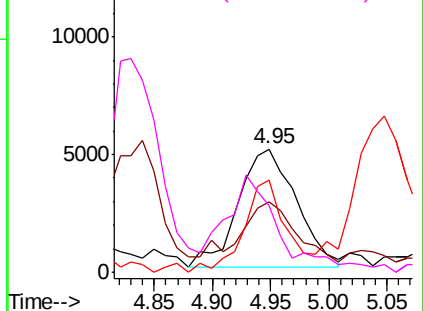
#41
Methacrylonitrile
Concen: 5.906 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.01 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	17303
Ion	Ratio	Lower	Upper
41	100		
39	57.0	42.2	63.2
67	75.1	56.4	84.6
52	54.0	38.8	58.2

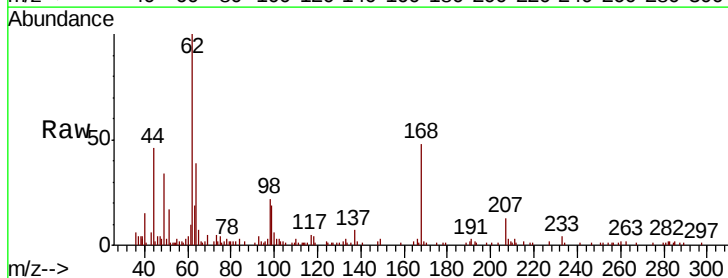


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

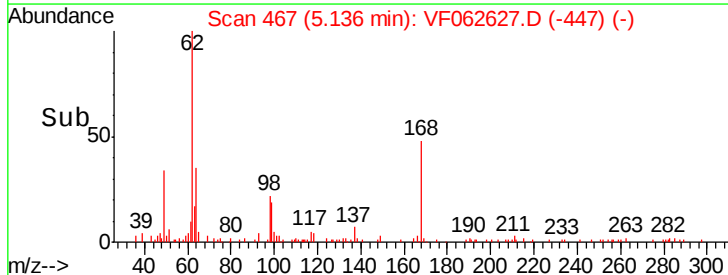
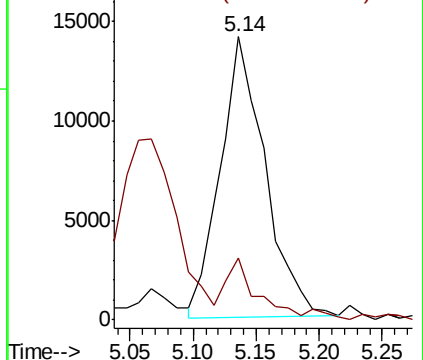


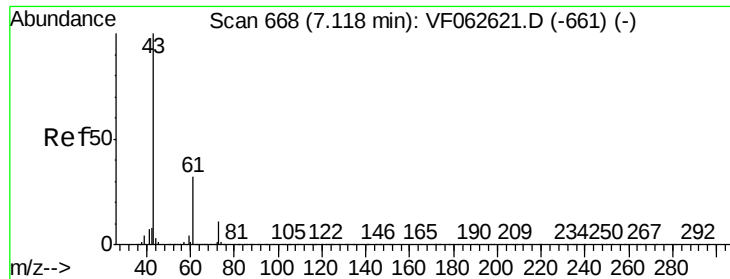
#42
1,2-Dichloroethane
Concen: 4.646 ug/l
RT: 5.14 min Scan# 467
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion:	62	Resp:	34542
Ion	Ratio	Lower	Upper
62	100		
98	21.7	0.0	21.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 5.657 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

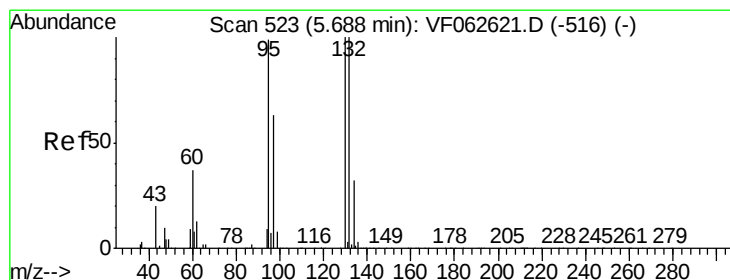
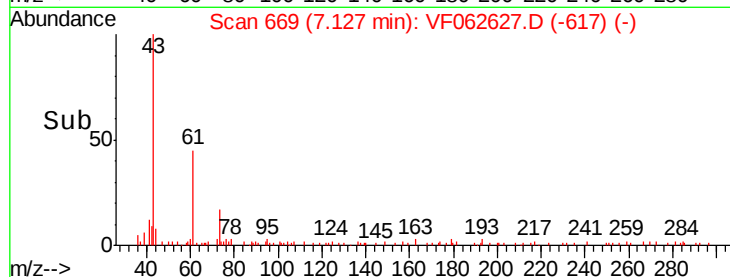
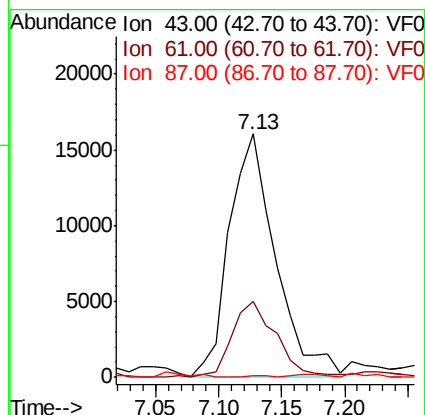
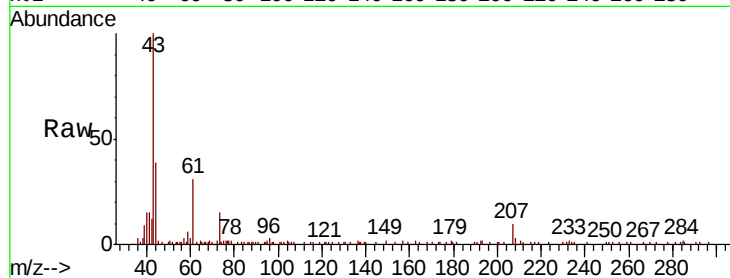
Tot Ion: 43 Resp: 40951

Ion Ratio Lower Upper

43 100

61 31.3 25.8 38.8

87 0.8 0.4 0.6#



#44

Trichloroethene

Concen: 4.942 ug/l

RT: 5.70 min Scan# 524

Delta R.T. 0.01 min

Lab File: VF062627.D

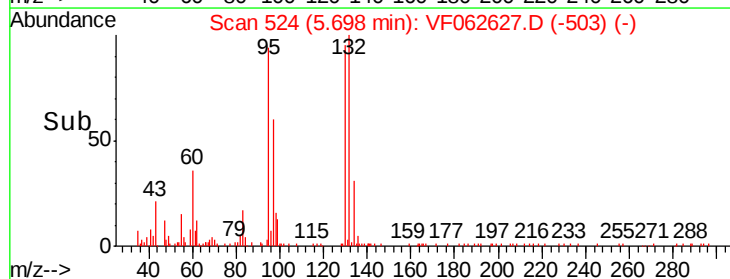
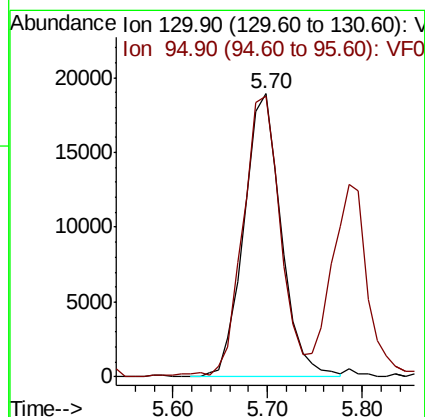
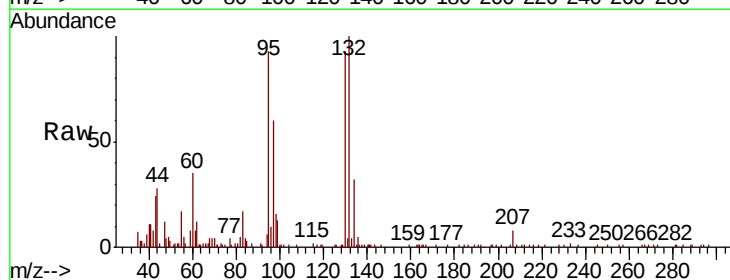
Acq: 16 May 2019 15:28

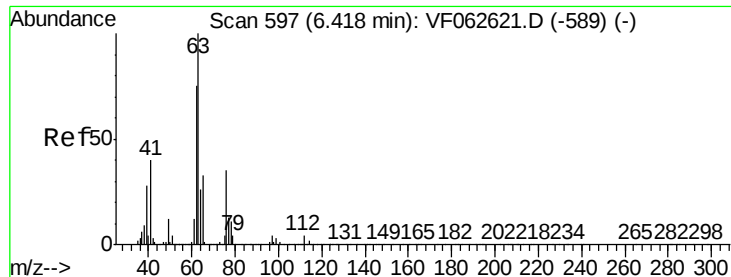
Tgt Ion:130 Resp: 51788

Ion Ratio Lower Upper

130 100

95 99.2 0.0 199.4





#45

1,2-Dichloropropane

Concen: 5.104 ug/l

RT: 6.42 min Scan# 597

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

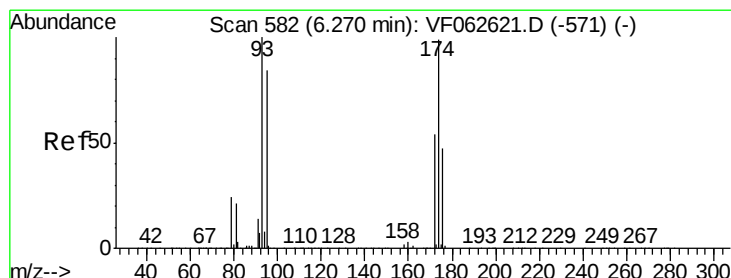
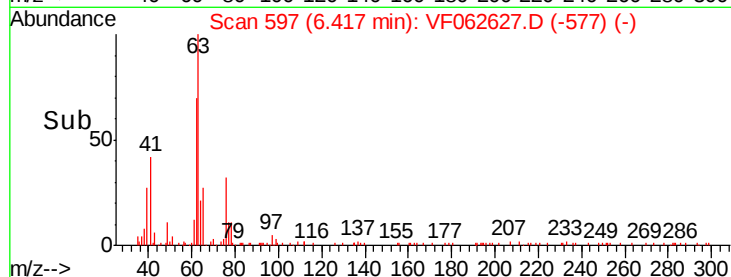
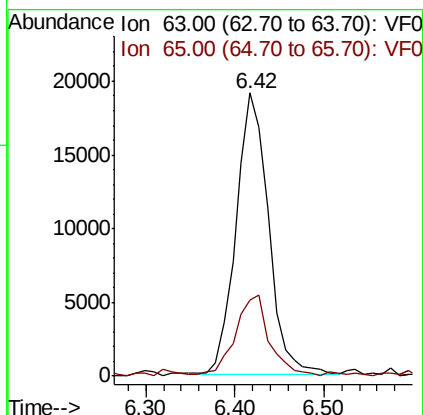
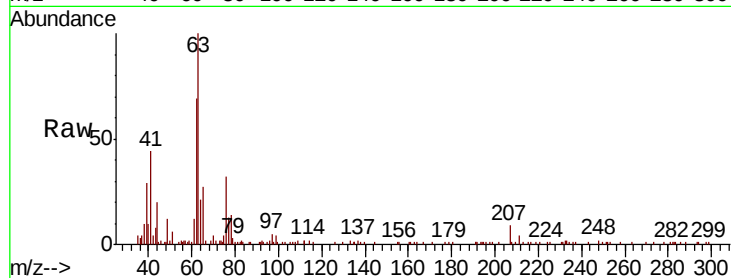
VSTDIC005

Tot Ion: 63 Resp: 48042

Ion Ratio Lower Upper

63 100

65 26.7 26.3 39.5



#46

Dibromomethane

Concen: 5.021 ug/l

RT: 6.27 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

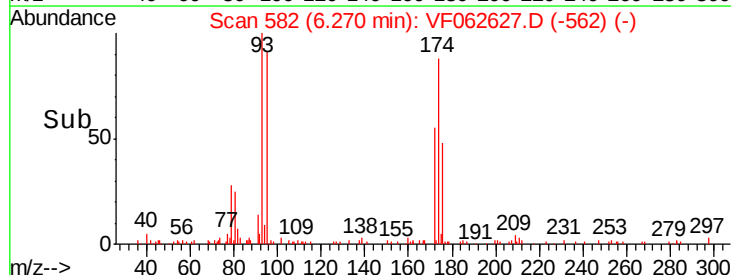
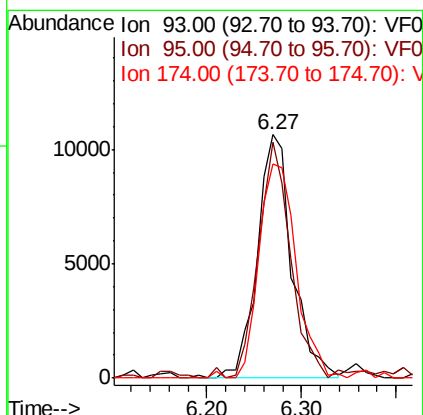
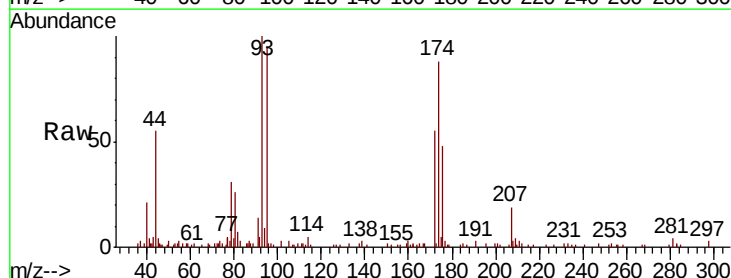
Tgt Ion: 93 Resp: 27309

Ion Ratio Lower Upper

93 100

95 96.8 67.4 101.2

174 92.8 79.4 119.2





#47

Bromodichloromethane

Concen: 5.071 ug/l

RT: 6.57 min Scan# 612

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

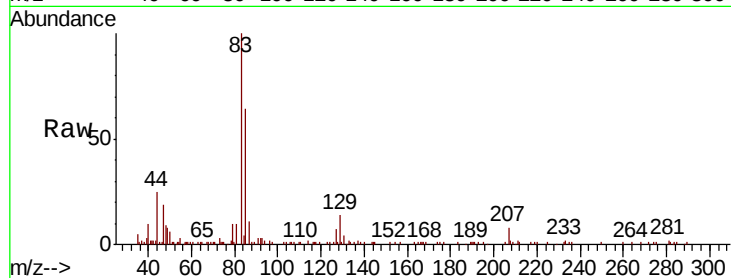
Tot Ion: 83 Resp: 57268

Ion Ratio Lower Upper

83 100

85 64.0 52.0 78.0

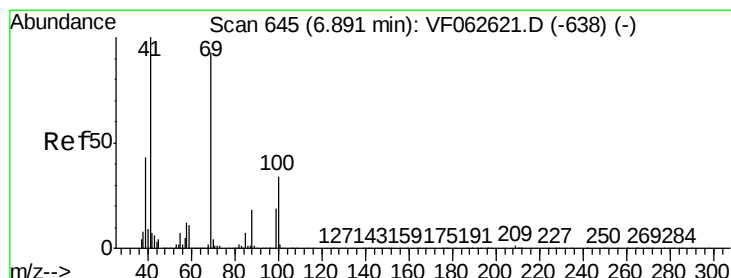
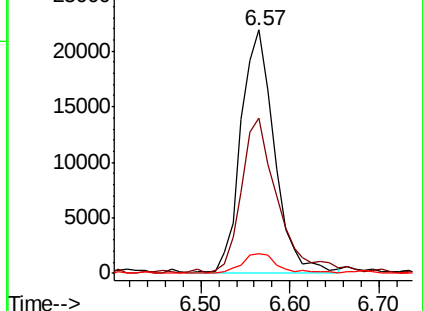
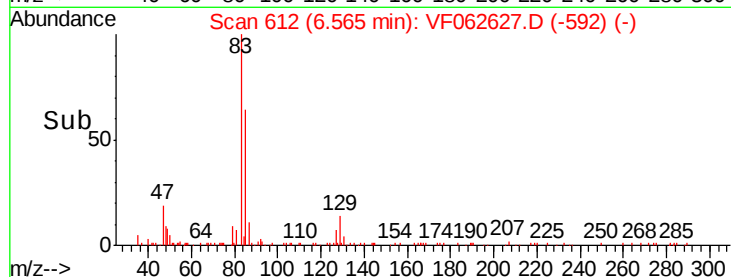
127 8.0 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 4.983 ug/l

RT: 6.89 min Scan# 645

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

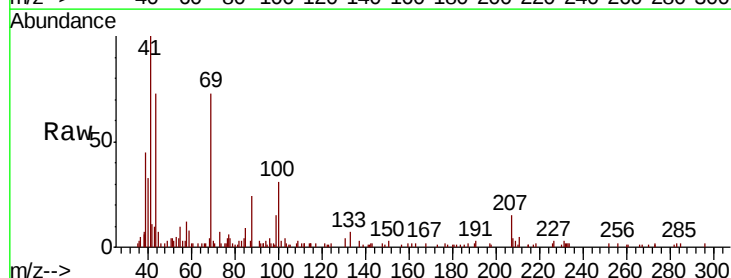
Tgt Ion: 41 Resp: 18855

Ion Ratio Lower Upper

41 100

69 73.4 74.2 111.2#

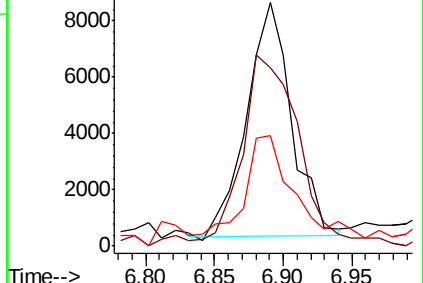
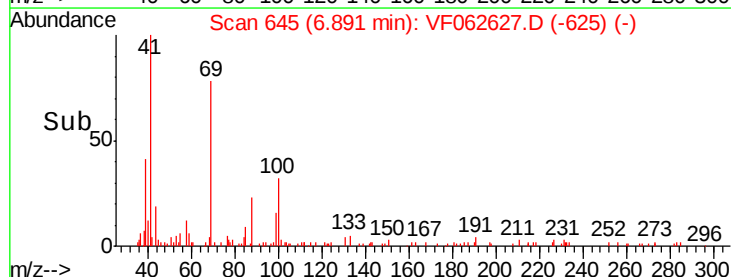
39 45.1 34.2 51.4

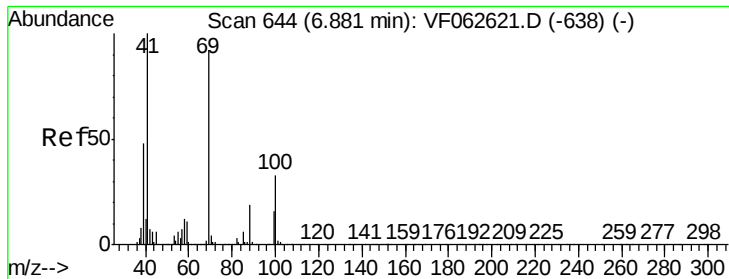


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

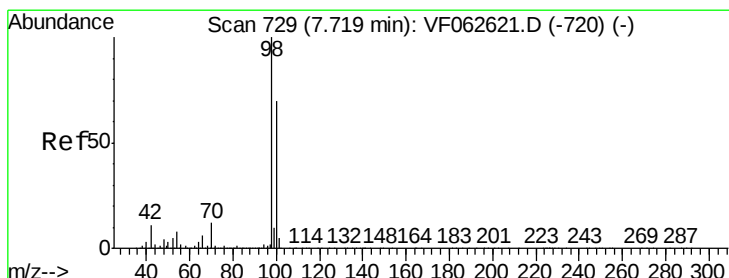
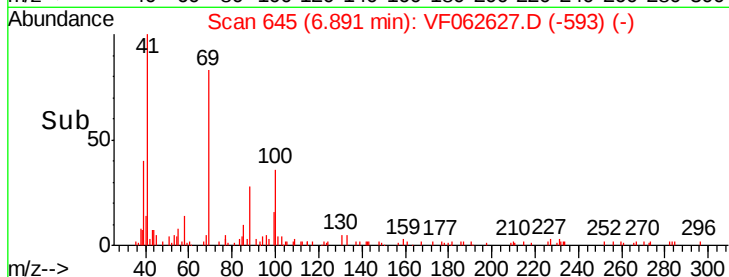
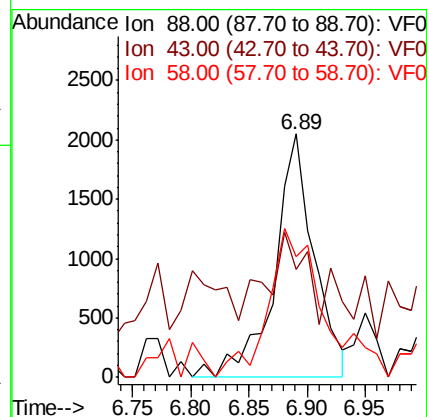
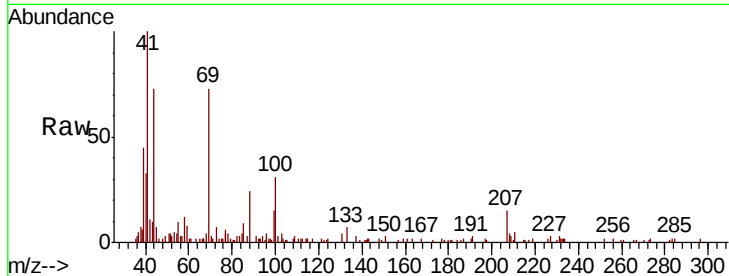




#49
1,4-Dioxane
Concen: 99.886 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.01 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

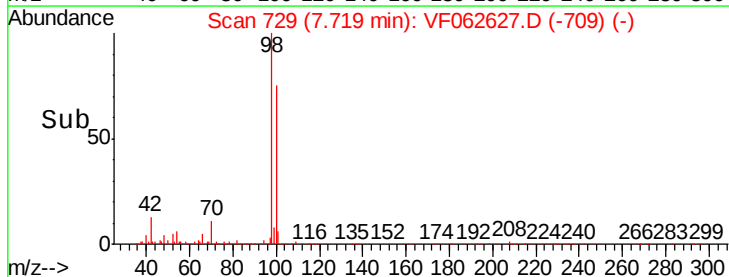
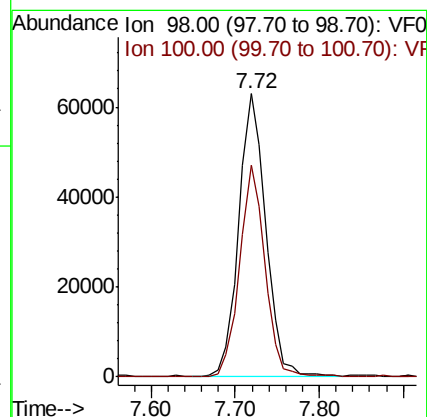
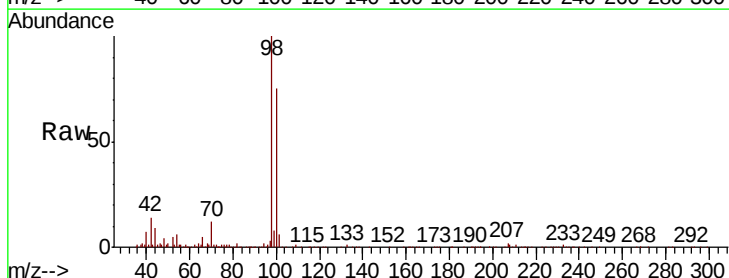
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

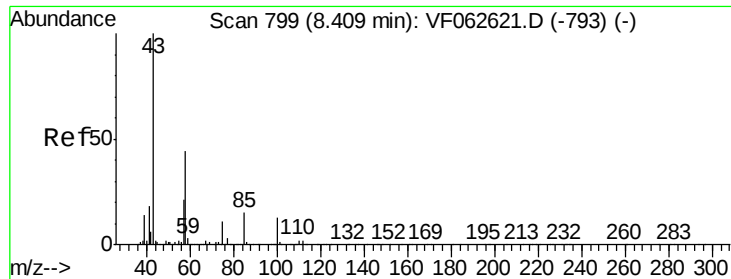
Tot Ion: 88 Resp: 4841
Ion Ratio Lower Upper
88 100
43 44.2 30.0 45.0
58 49.5 51.1 76.7#



#50
Toluene-d8
Concen: 5.798 ug/l
RT: 7.72 min Scan# 729
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion: 98 Resp: 141482
Ion Ratio Lower Upper
98 100
100 74.8 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 27.381 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

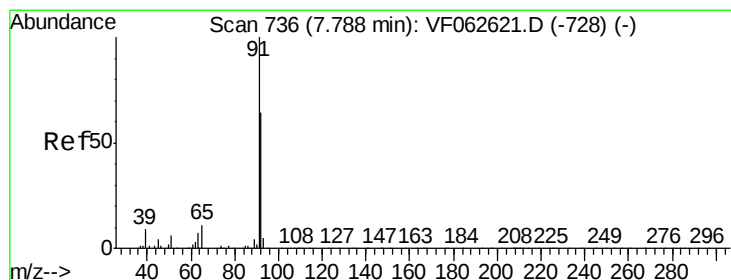
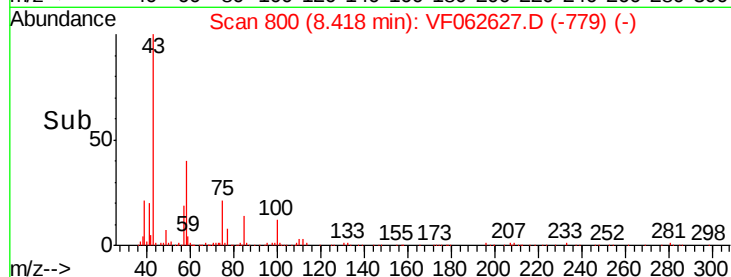
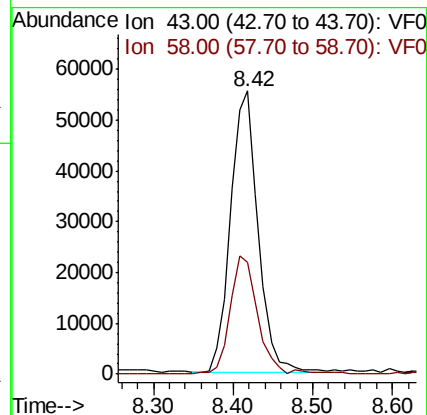
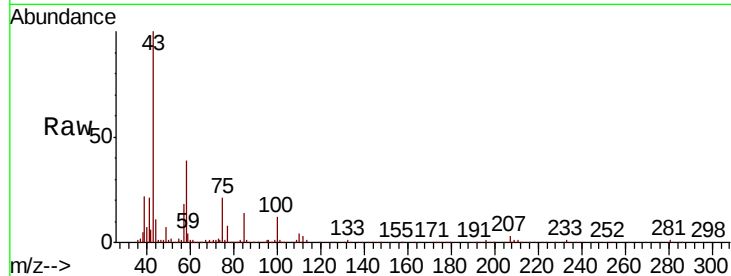
VSTDIC005

Tot Ion: 43 Resp: 135495

Ion Ratio Lower Upper

43 100

58 39.4 34.9 52.3



#52

Toluene

Concen: 5.167 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF062627.D

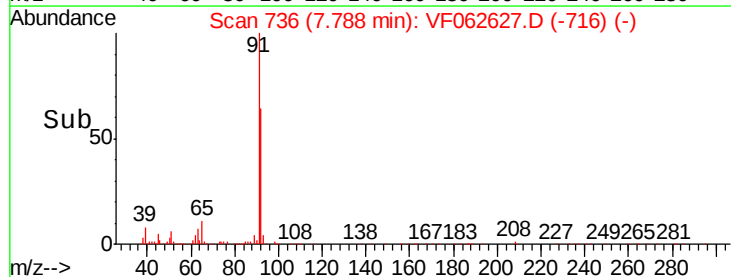
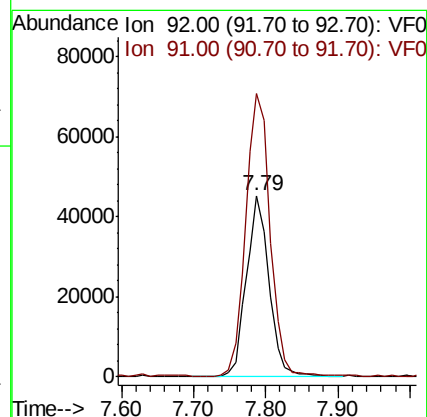
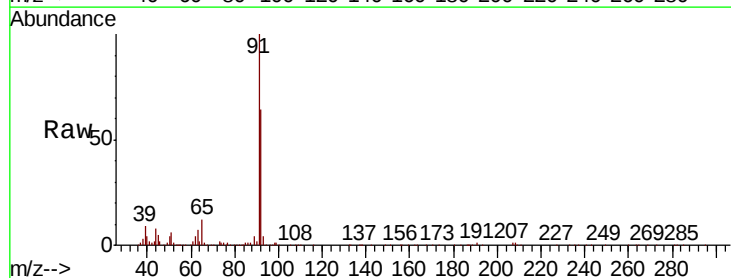
Acq: 16 May 2019 15:28

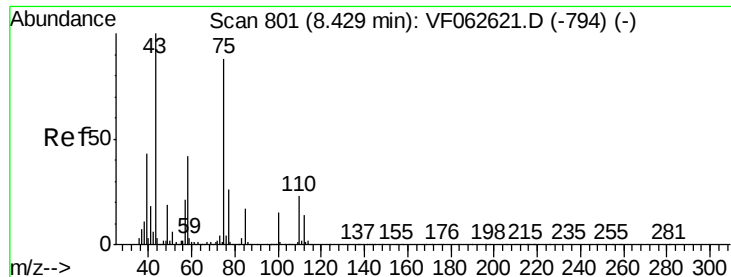
Tgt Ion: 92 Resp: 101032

Ion Ratio Lower Upper

92 100

91 156.2 125.4 188.0

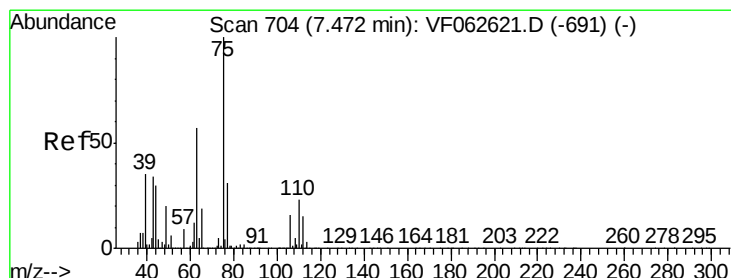
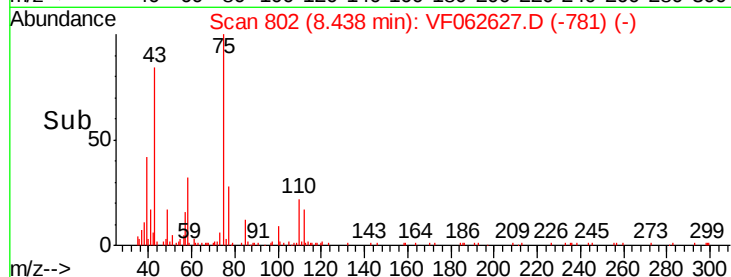
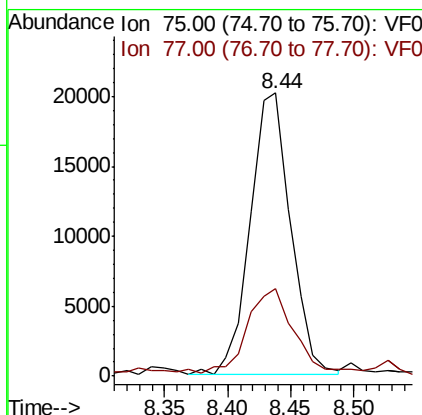
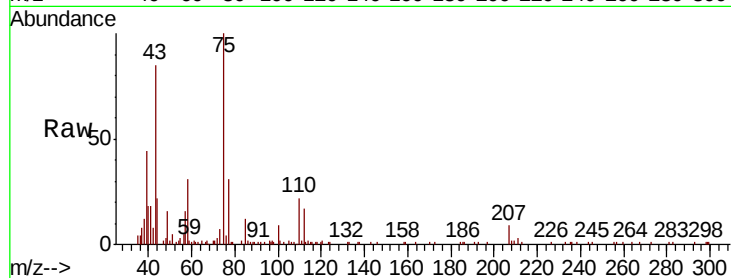




#53
 t-1,3-Dichloropropene
 Concen: 4.858 ug/l
 RT: 8.44 min Scan# 802
 Delta R.T. 0.01 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

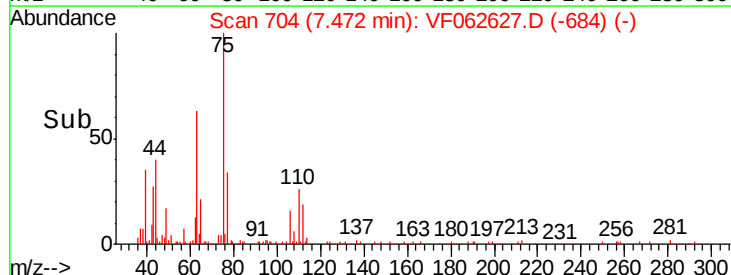
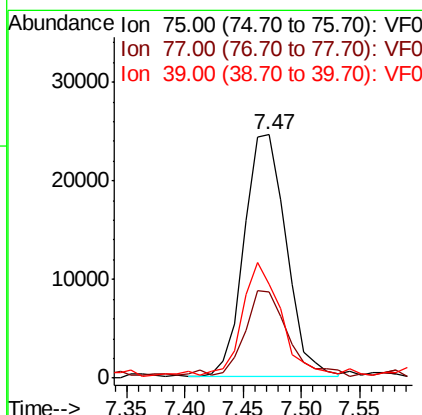
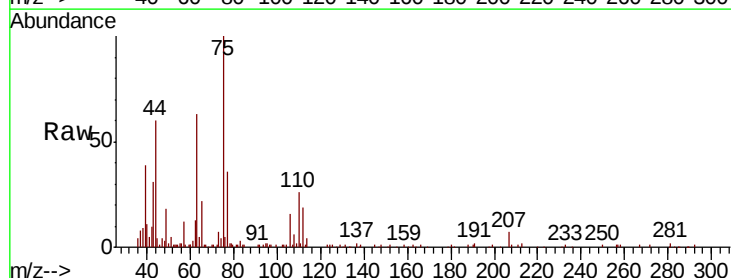
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

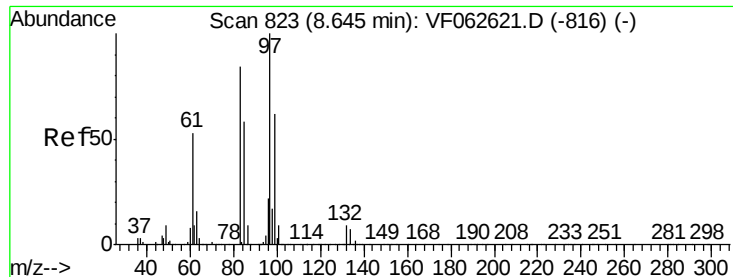
Tot Ion: 75 Resp: 44885
 Ion Ratio Lower Upper
 75 100
 77 31.0 24.2 36.4



#54
 cis-1,3-Dichloropropene
 Concen: 4.757 ug/l
 RT: 7.47 min Scan# 704
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion: 75 Resp: 61514
 Ion Ratio Lower Upper
 75 100
 77 35.6 25.3 37.9
 39 38.5 28.2 42.2

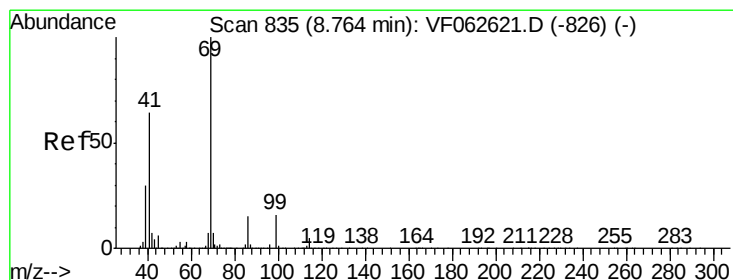
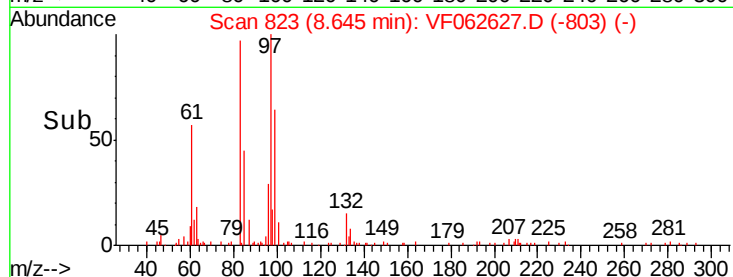
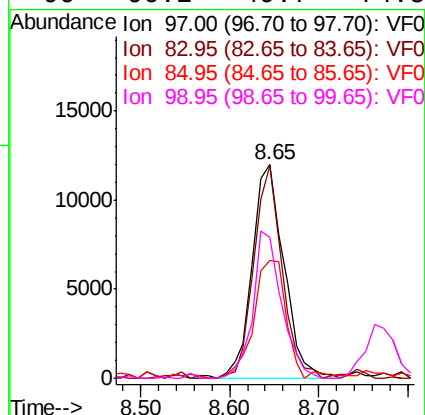
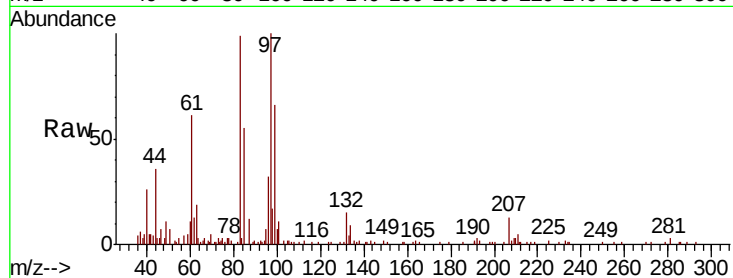




#55
 1,1,2-Trichloroethane
 Concen: 5.087 ug/l
 RT: 8.65 min Scan# 823
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

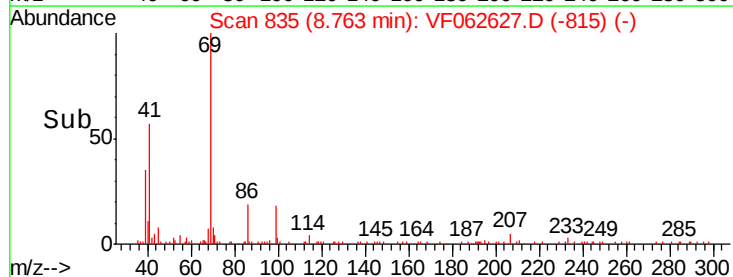
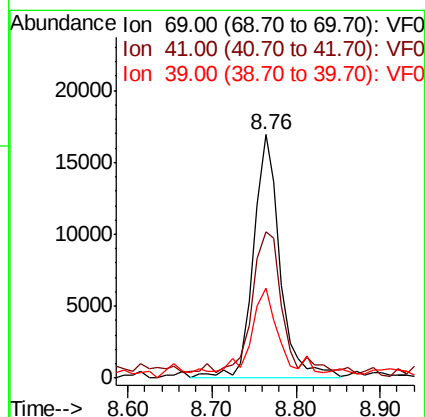
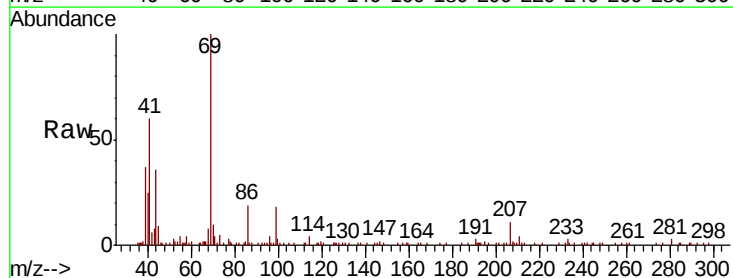
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

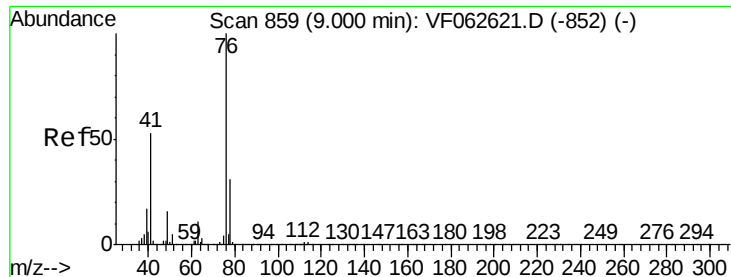
Tot Ion:	97	Resp:	29451
Ion	Ratio	Lower	Upper
97	100		
83	99.4	67.3	100.9
85	55.4	46.6	69.8
99	66.2	49.7	74.5



#56
 Ethyl methacrylate
 Concen: 5.427 ug/l
 RT: 8.76 min Scan# 835
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion:	69	Resp:	37432
Ion	Ratio	Lower	Upper
69	100		
41	60.0	51.4	77.2
39	36.8	23.6	35.4#





#57

1,3-Dichloropropane

Concen: 5.212 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

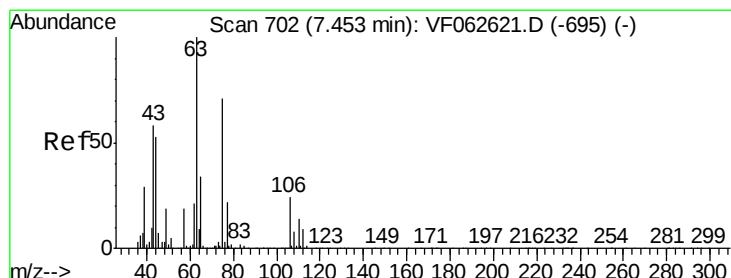
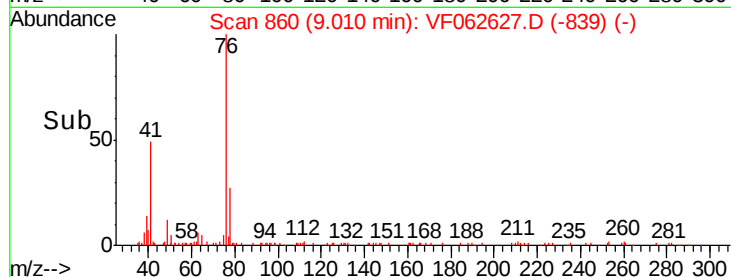
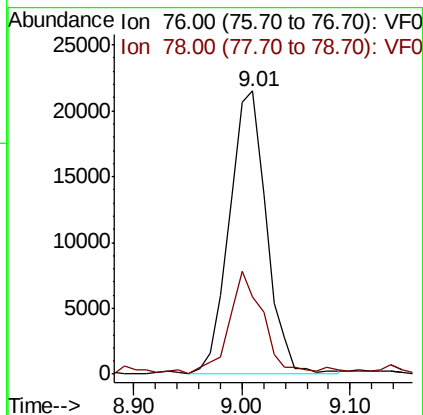
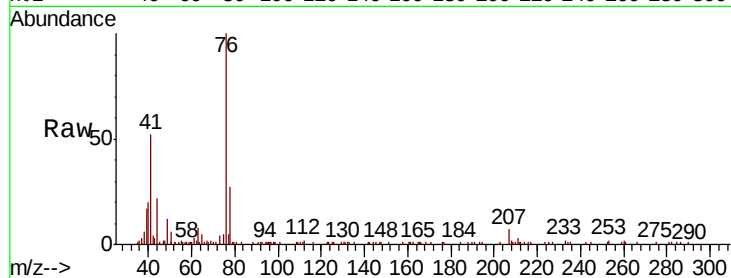
VSTDIC005

Tot Ion: 76 Resp: 51397

Ion Ratio Lower Upper

76 100

78 27.5 25.4 38.0



#58

2-Chloroethyl Vinyl ether

Concen: 24.718 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062627.D

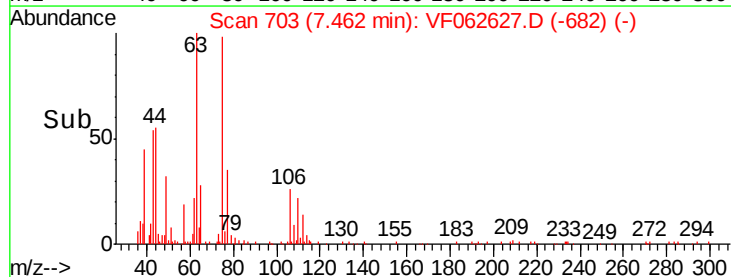
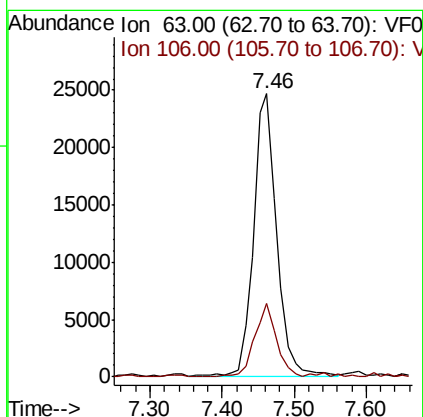
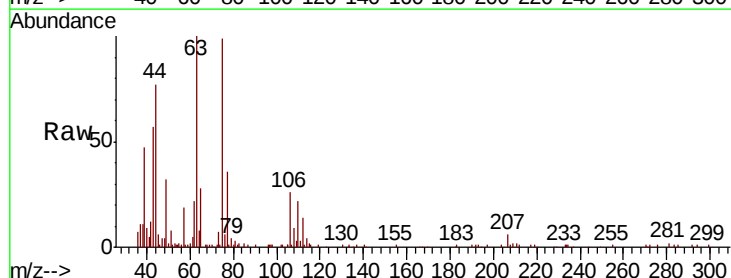
Acq: 16 May 2019 15:28

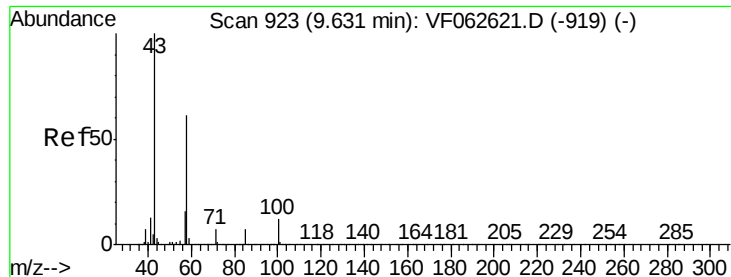
Tgt Ion: 63 Resp: 55496

Ion Ratio Lower Upper

63 100

106 26.1 19.1 28.7

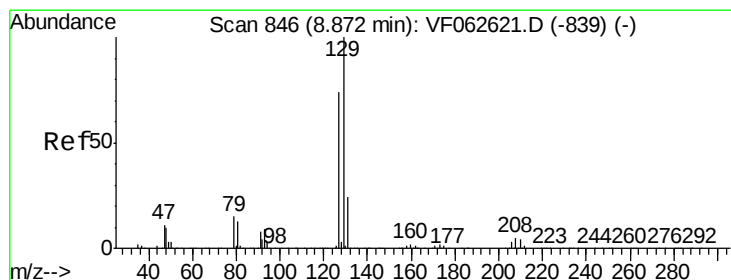
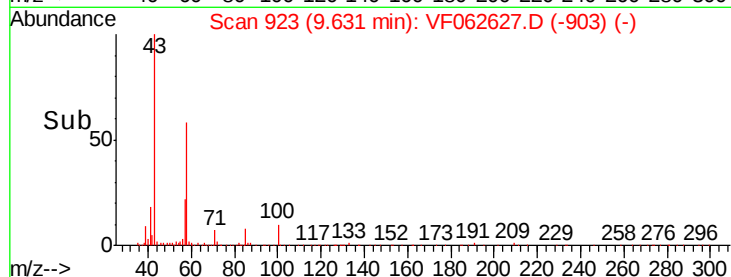
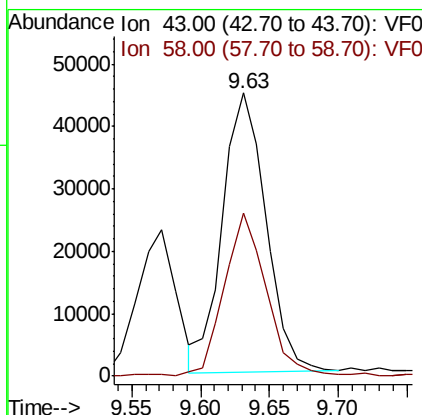
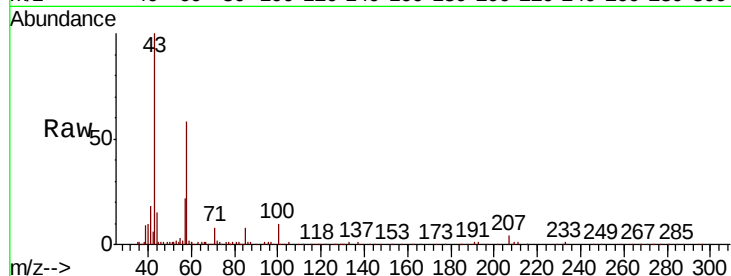




#59
2-Hexanone
Concen: 27.014 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

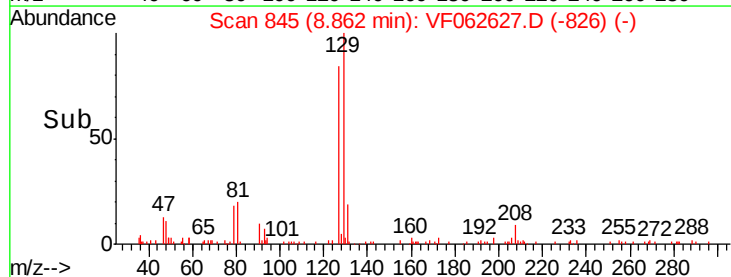
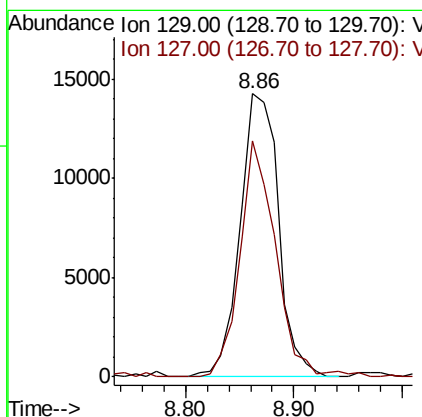
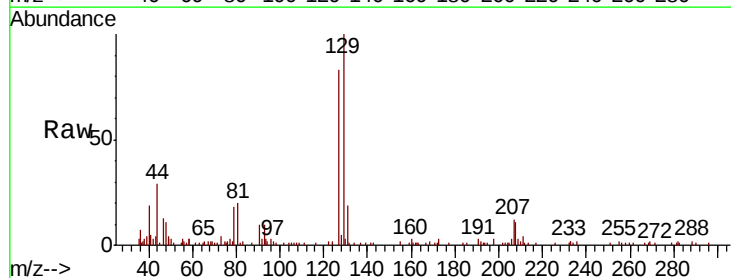
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

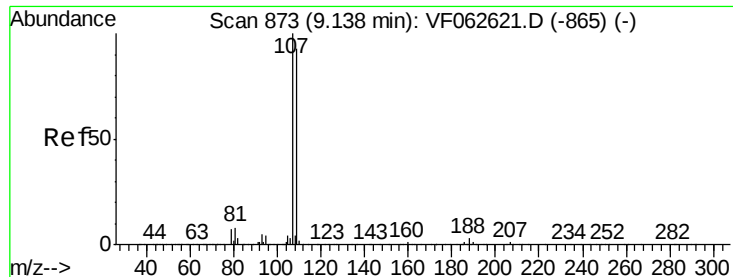
Tot Ion: 43 Resp: 97738
Ion Ratio Lower Upper
43 100
58 57.6 28.1 84.4



#60
Dibromochloromethane
Concen: 4.680 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.01 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion: 129 Resp: 35313
Ion Ratio Lower Upper
129 100
127 83.5 37.2 111.6





#61

1,2-Dibromoethane

Concen: 5.095 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

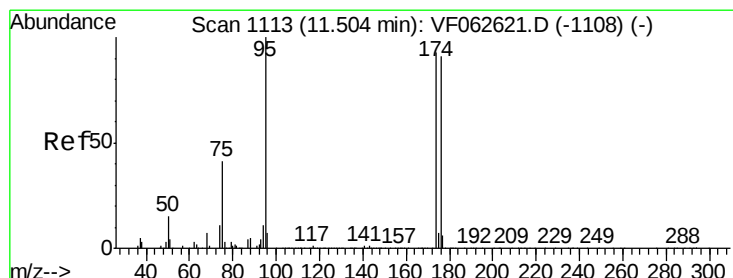
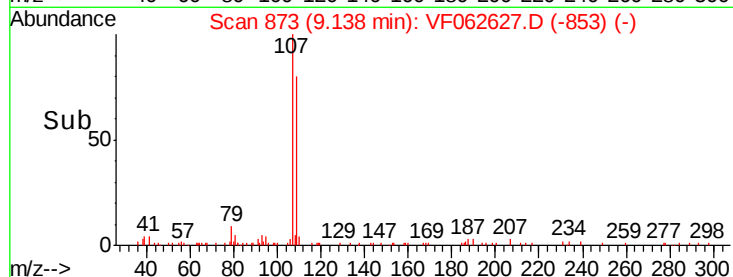
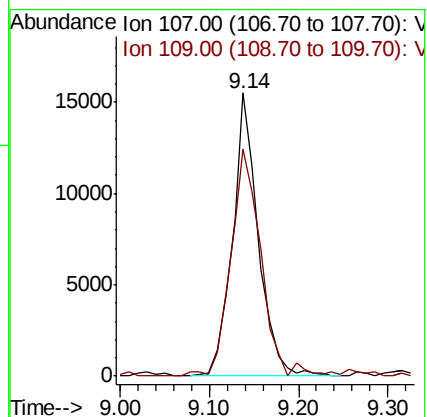
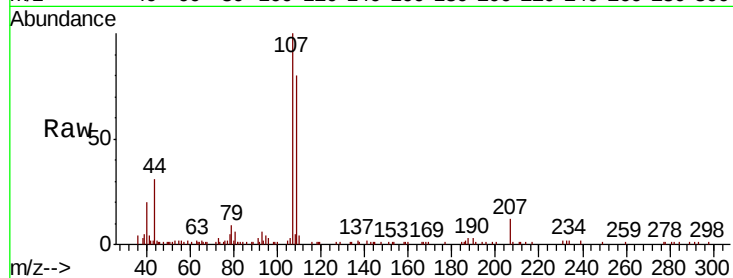
VSTDIC005

Tot Ion:107 Resp: 31331

Ion Ratio Lower Upper

107 100

109 80.1 74.8 112.2



#62

4-Bromofluorobenzene

Concen: 5.822 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

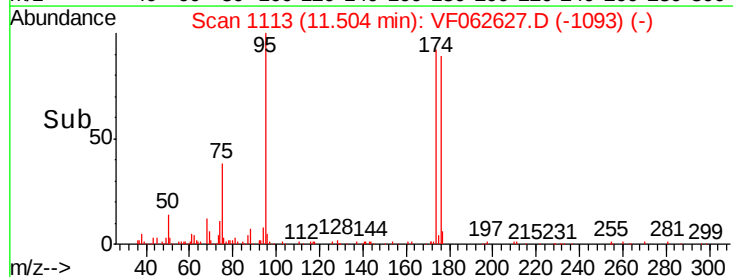
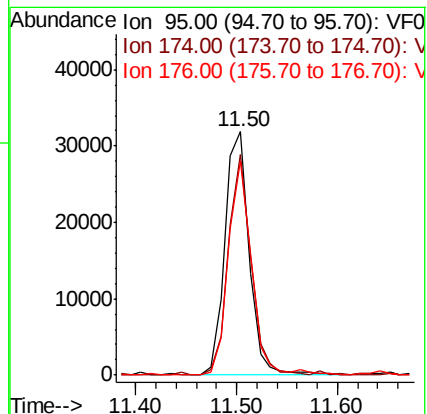
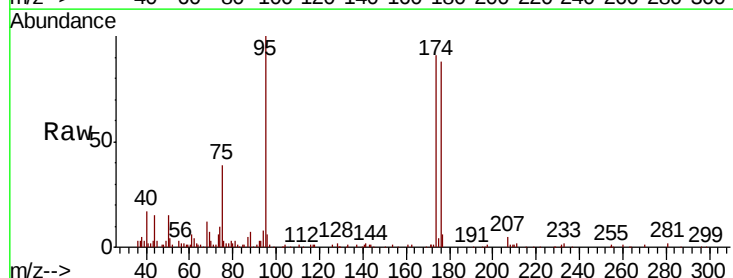
Tgt Ion: 95 Resp: 53887

Ion Ratio Lower Upper

95 100

174 90.7 0.0 185.6

176 87.9 0.0 182.4

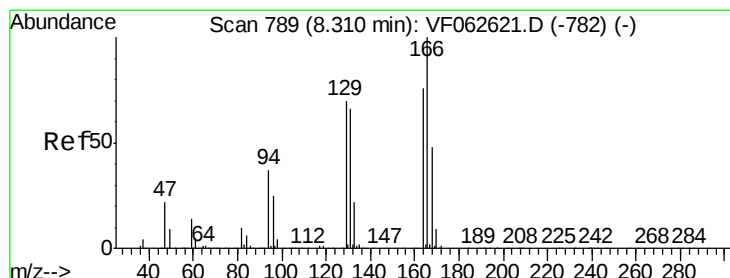
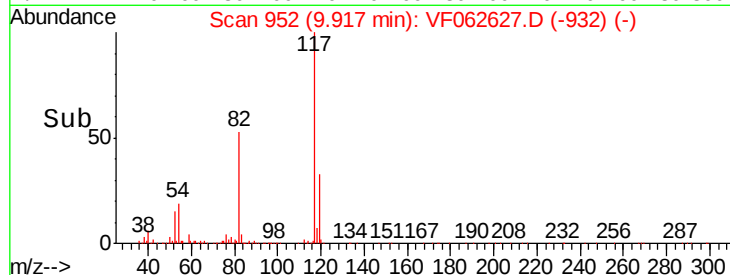
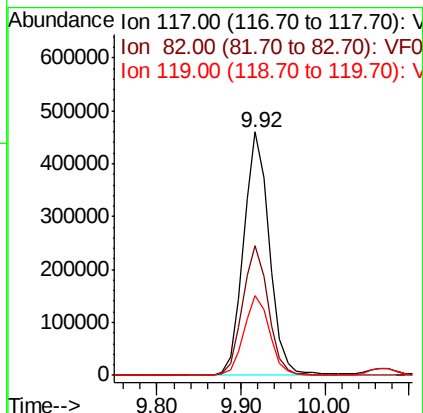
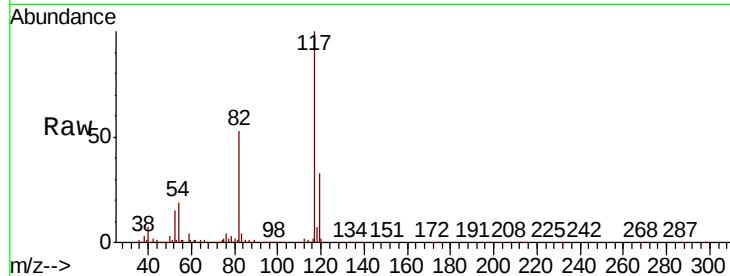




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

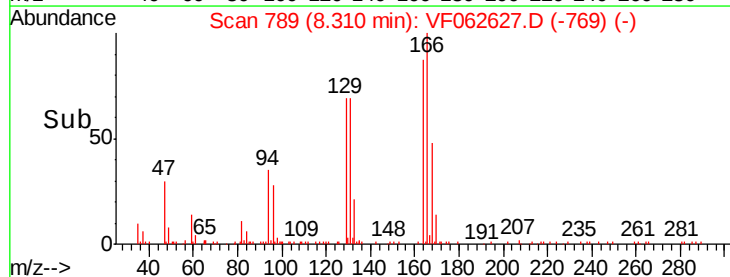
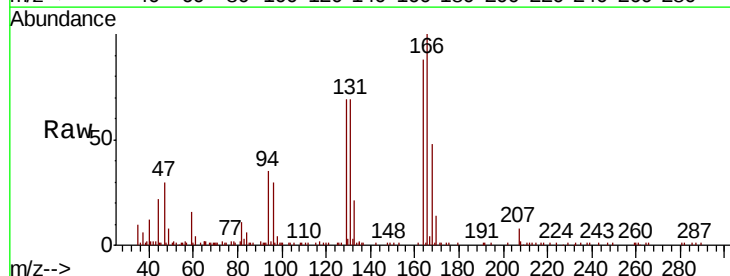
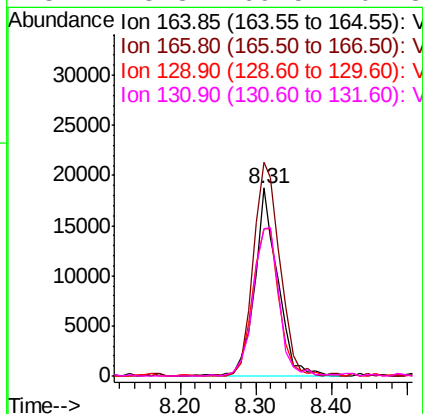
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

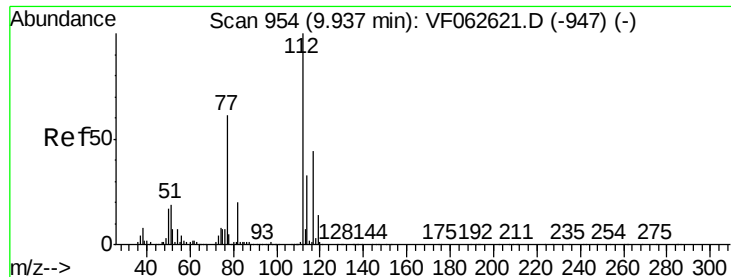
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.3	64.9
119	32.8	27.4	41.0



#64
Tetrachloroethene
Concen: 5.114 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.7	105.5	158.3
129	78.2	73.8	110.6
131	78.3	69.5	104.3





#65

Chlorobenzene

Concen: 5.060 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

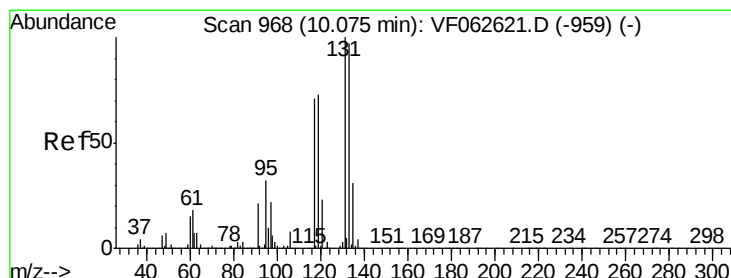
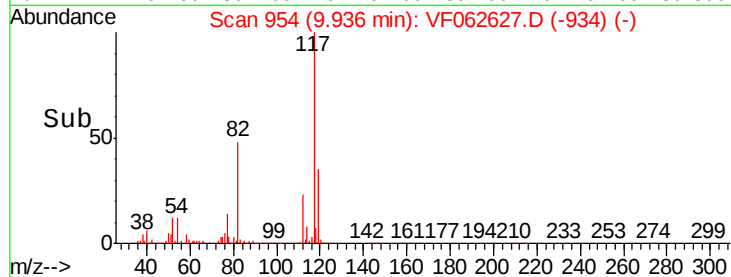
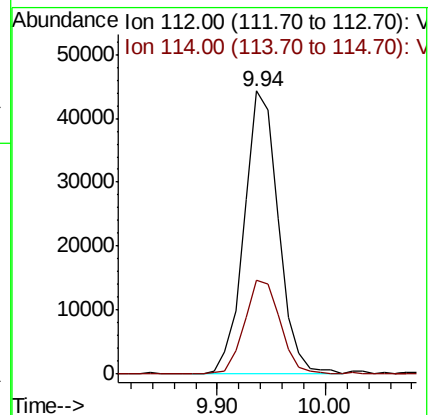
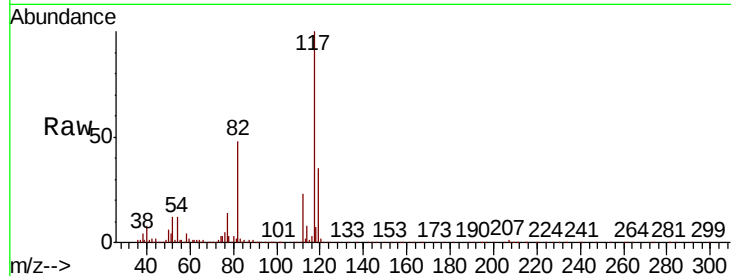
VSTDIC005

Tot Ion:112 Resp: 97919

Ion Ratio Lower Upper

112 100

114 33.2 26.8 40.2



#66

1,1,1,2-Tetrachloroethane

Concen: 4.827 ug/l

RT: 10.06 min Scan# 967

Delta R.T. -0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

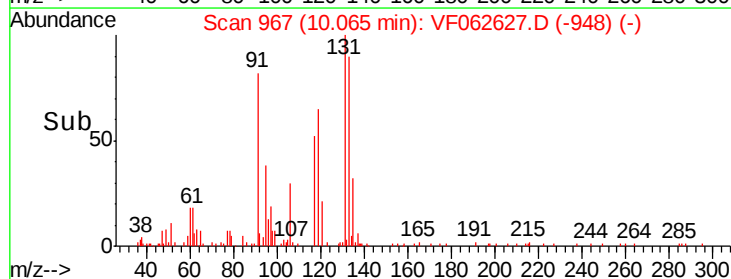
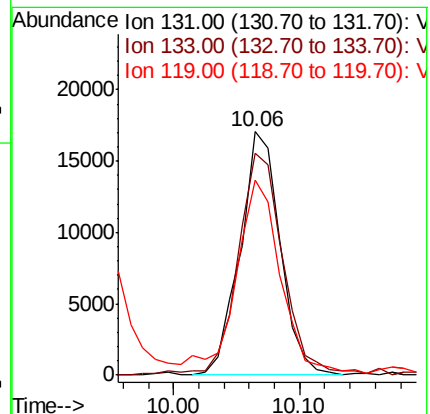
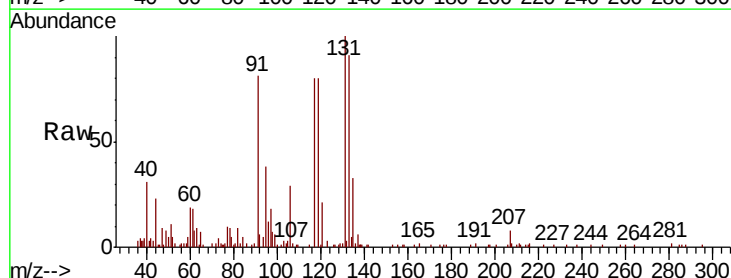
Tgt Ion:131 Resp: 37504

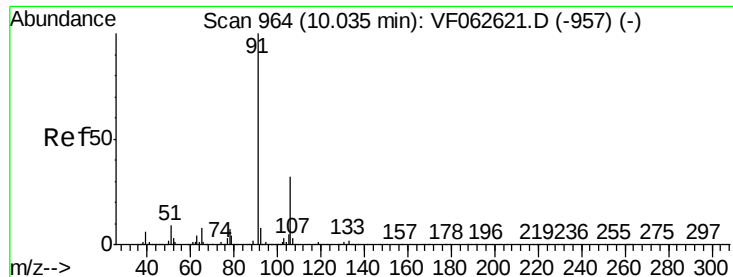
Ion Ratio Lower Upper

131 100

133 88.4 48.5 145.5

119 77.6 36.8 110.4

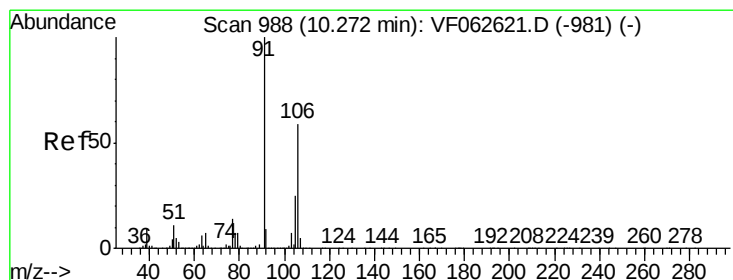
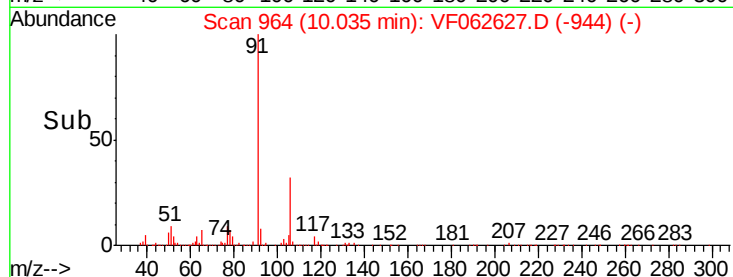
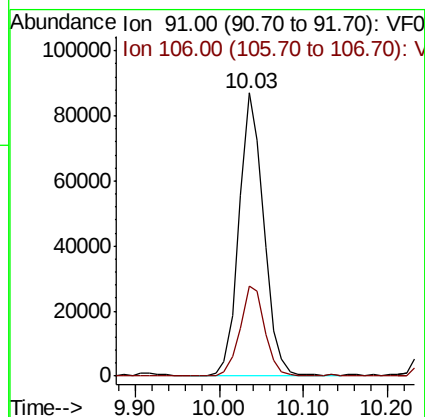
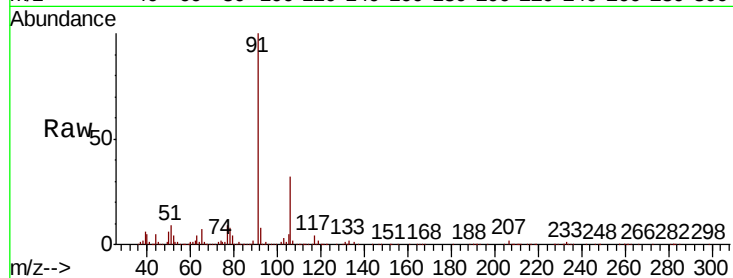




#67
Ethyl Benzene
Concen: 5.287 ug/l
RT: 10.03 min Scan# 964
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

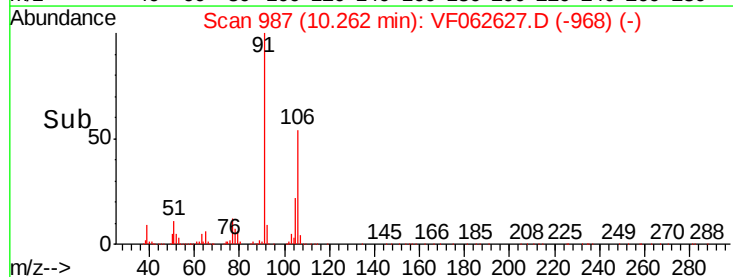
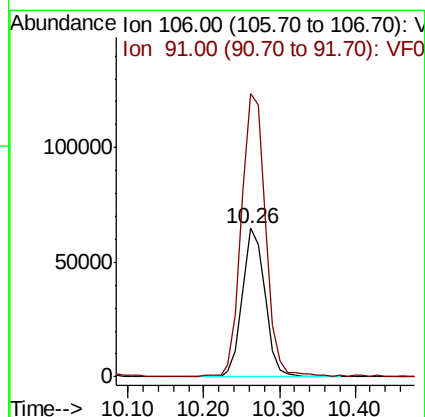
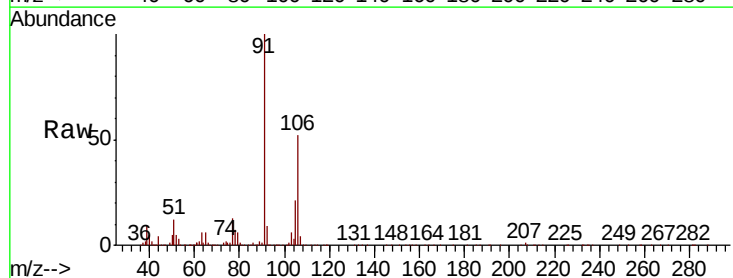
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

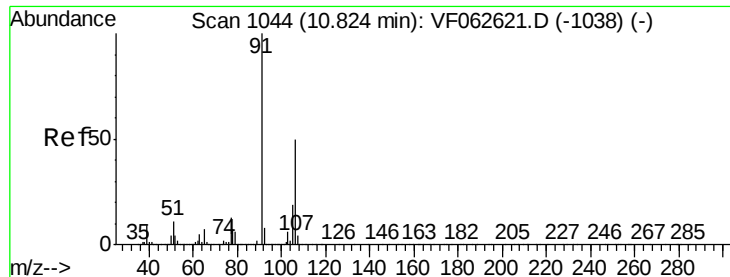
Tot Ion: 91 Resp: 177741
Ion Ratio Lower Upper
91 100
106 31.8 25.8 38.8



#68
m/p-Xylenes
Concen: 10.701 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion: 106 Resp: 135217
Ion Ratio Lower Upper
106 100
91 190.7 136.9 205.3

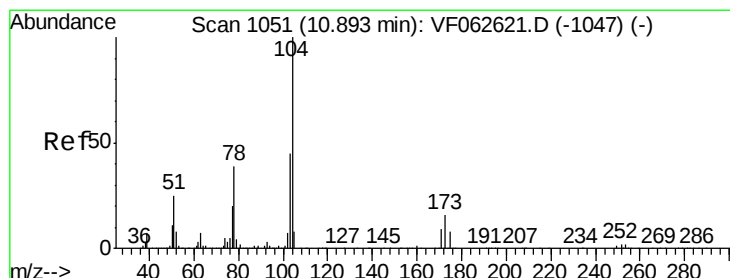
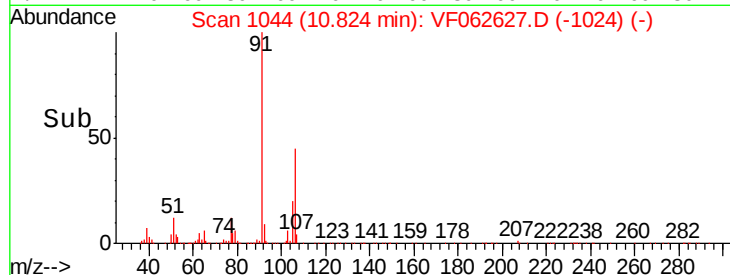
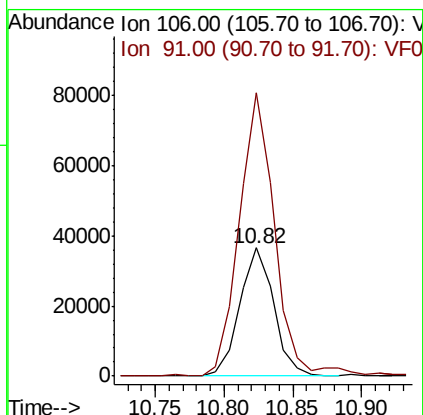
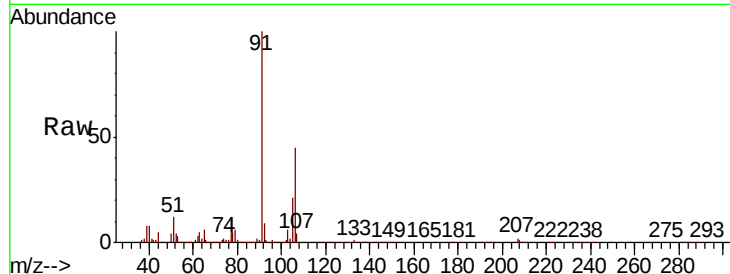




#69
o-Xylene
Concen: 4.860 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

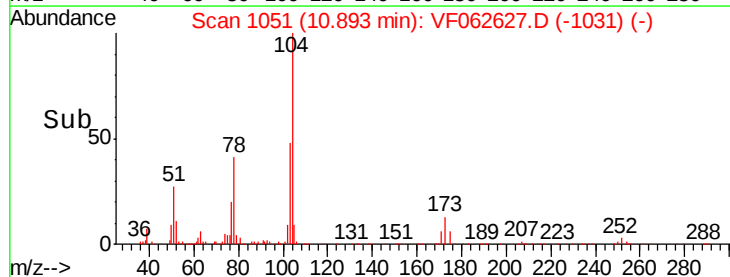
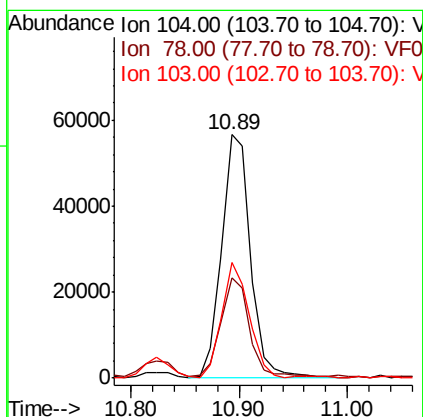
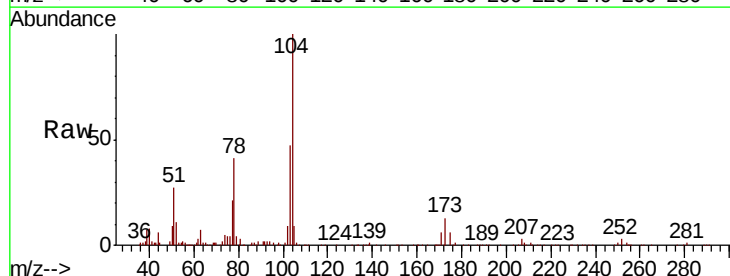
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

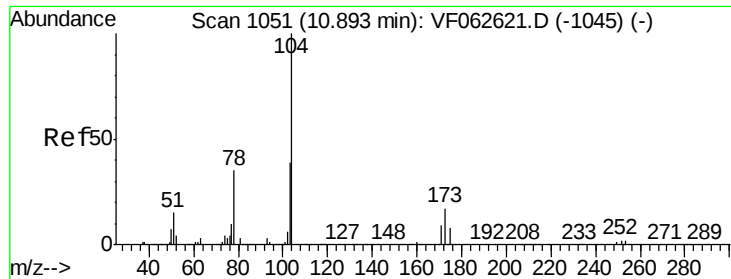
Tot Ion:106 Resp: 63258
Ion Ratio Lower Upper
106 100
91 221.2 100.2 300.5



#70
Styrene
Concen: 5.292 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion:104 Resp: 104698
Ion Ratio Lower Upper
104 100
78 41.2 31.9 47.9
103 47.4 36.1 54.1





#71

Bromoform

Concen: 4.787 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

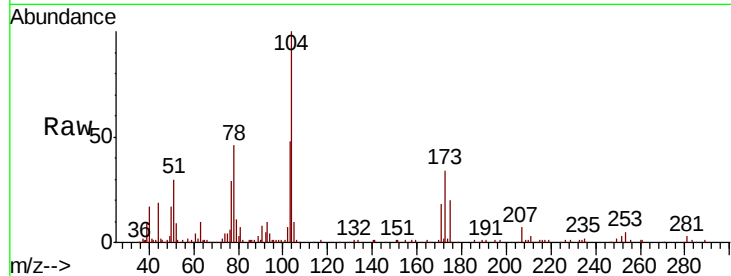
Tot Ion:173 Resp: 18626

Ion Ratio Lower Upper

173 100

175 58.4 25.3 75.9

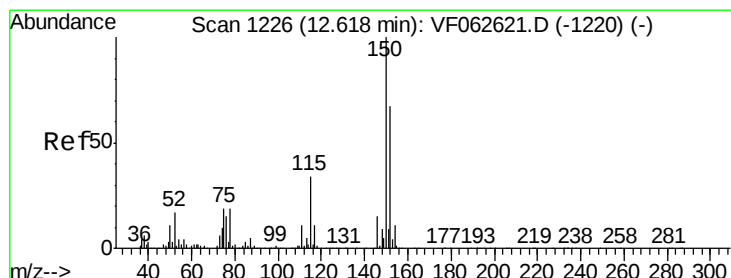
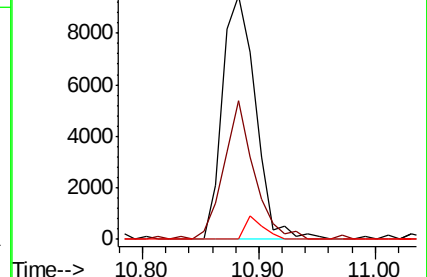
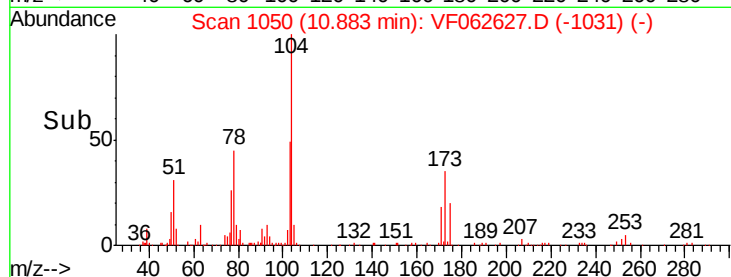
254 0.0 0.2 0.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

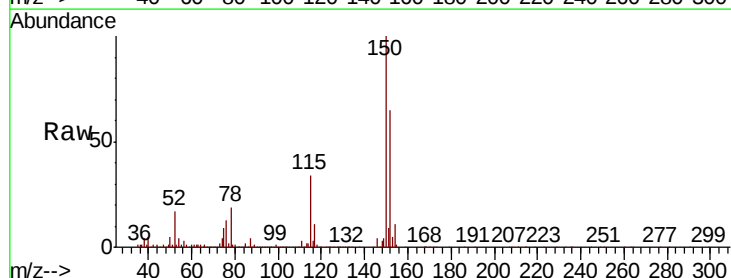
Tgt Ion:152 Resp: 493230

Ion Ratio Lower Upper

152 100

115 52.7 25.2 75.6

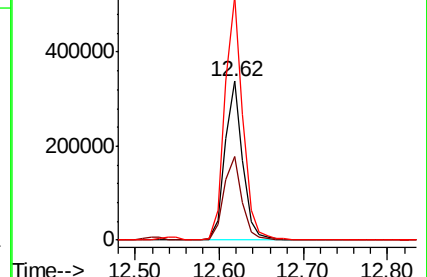
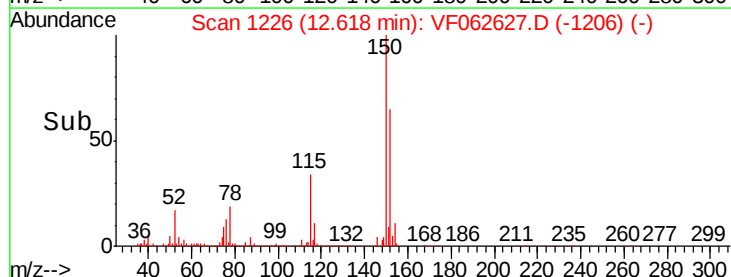
150 153.3 0.0 306.2

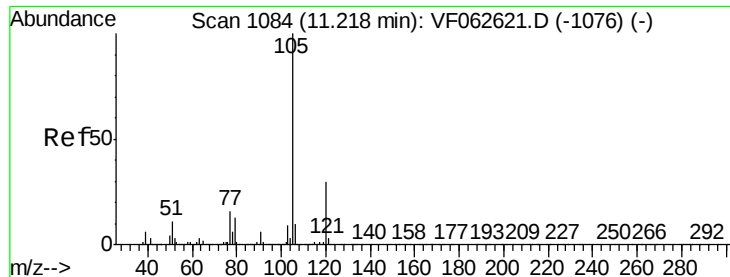


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 5.356 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

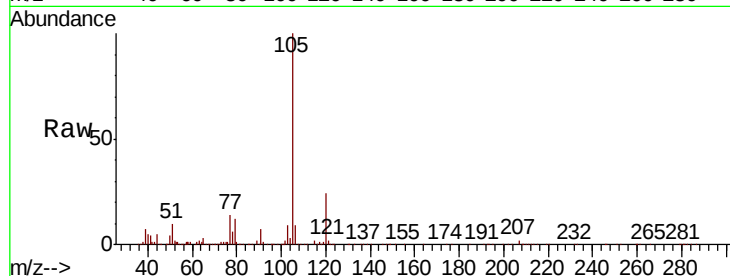
VSTDIC005

Tot Ion:105 Resp: 189329

Ion Ratio Lower Upper

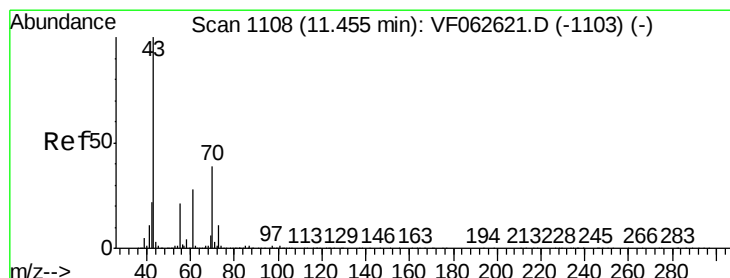
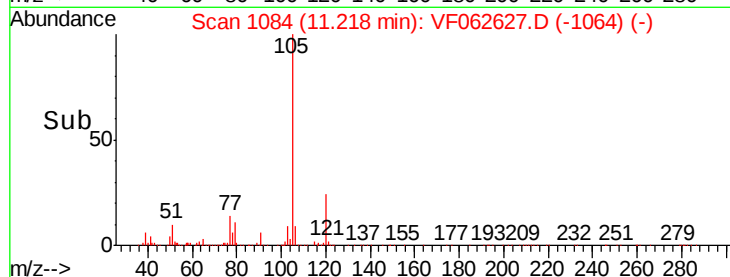
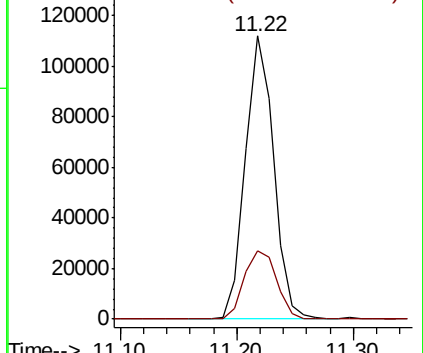
105 100

120 24.1 14.8 44.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 5.540 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Tgt Ion: 43 Resp: 60415

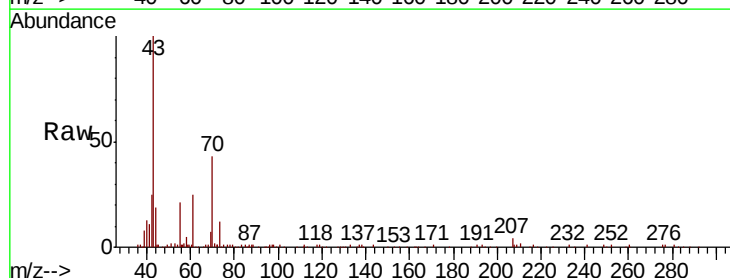
Ion Ratio Lower Upper

43 100

70 42.7 30.9 46.3

55 20.9 17.0 25.4

61 25.4 22.6 34.0

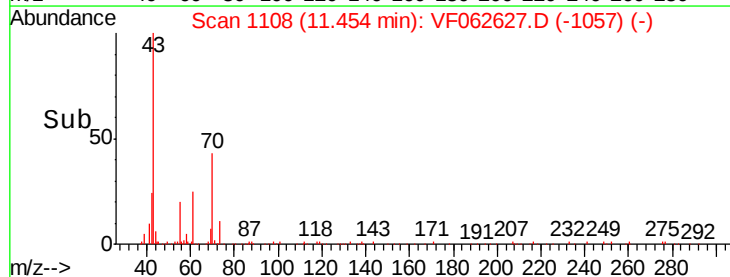
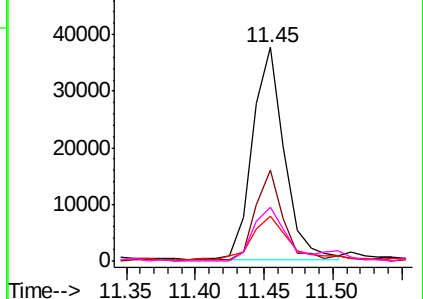


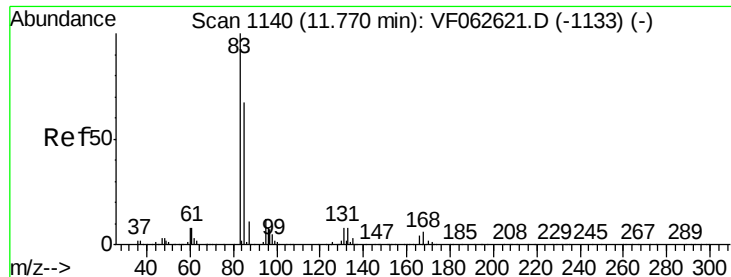
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.469 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

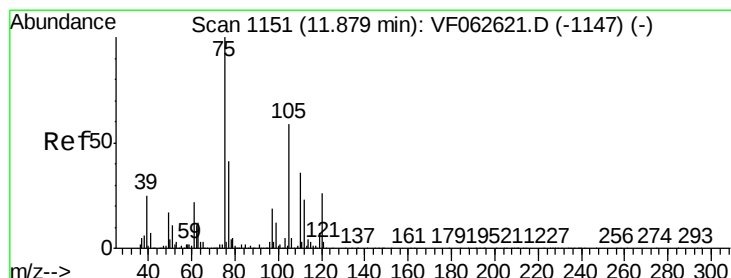
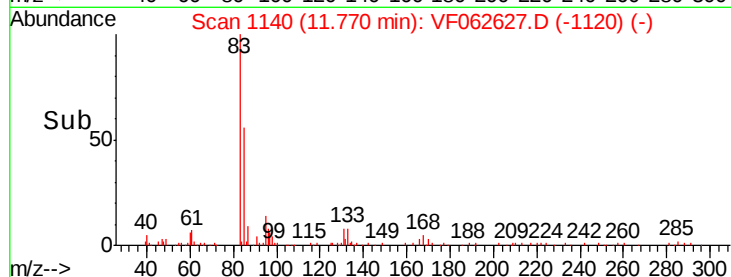
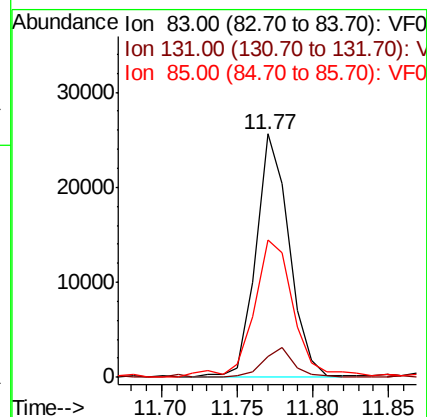
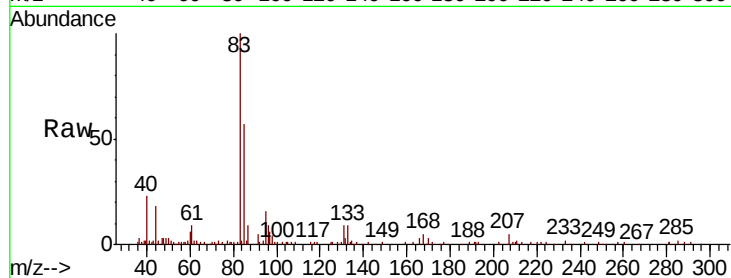
Tot Ion: 83 Resp: 39508

Ion Ratio Lower Upper

83 100

131 8.8 4.0 12.0

85 56.6 33.5 100.5



#76

1,2,3-Trichloropropane

Concen: 5.417 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF062627.D

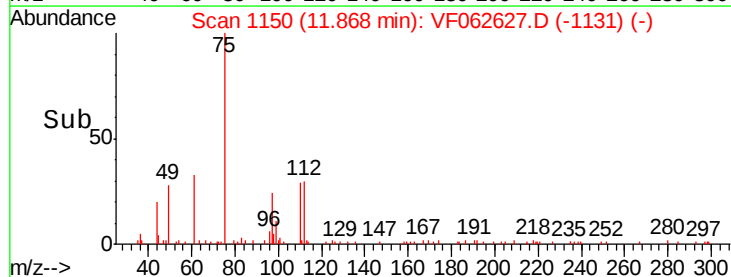
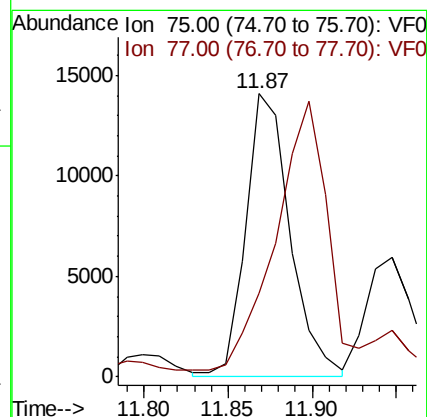
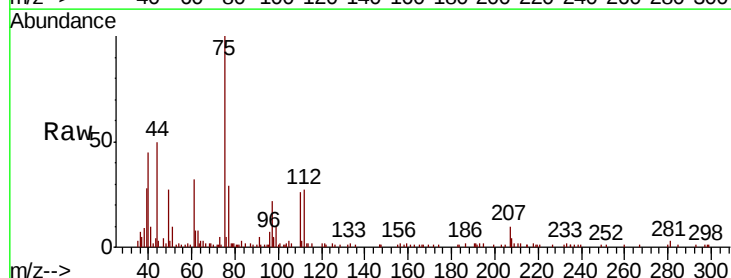
Acq: 16 May 2019 15:28

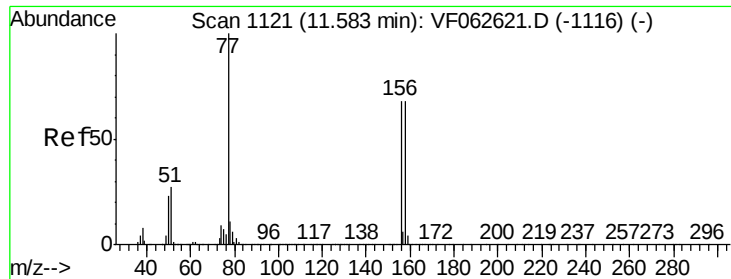
Tgt Ion: 75 Resp: 25713

Ion Ratio Lower Upper

75 100

77 29.4 20.6 61.8





#77

Bromobenzene

Concen: 5.086 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

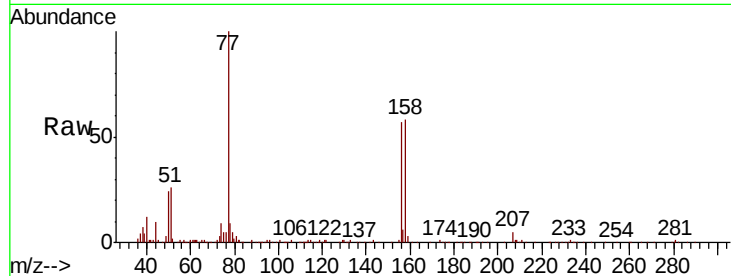
Tot Ion:156 Resp: 44695

Ion Ratio Lower Upper

156 100

77 174.7 73.6 220.8

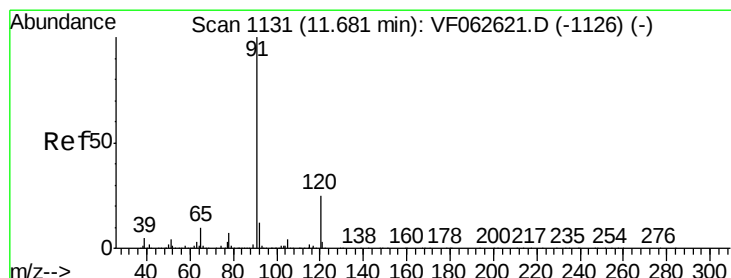
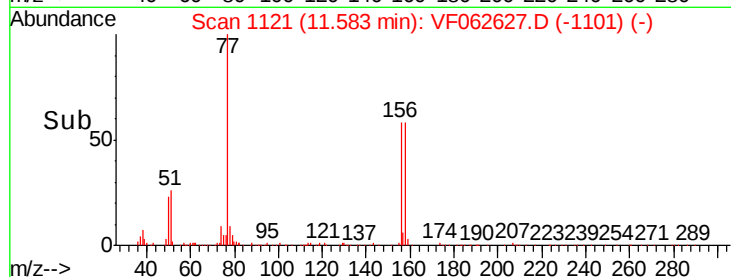
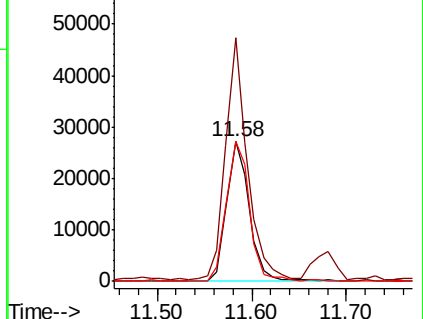
158 100.8 49.6 148.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 5.657 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062627.D

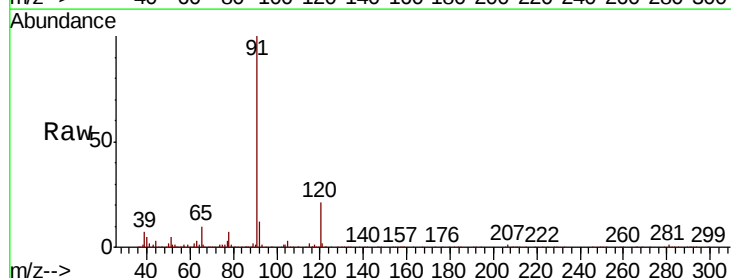
Acq: 16 May 2019 15:28

Tgt Ion: 91 Resp: 236668

Ion Ratio Lower Upper

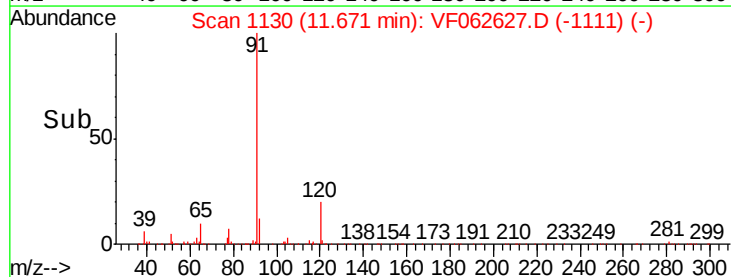
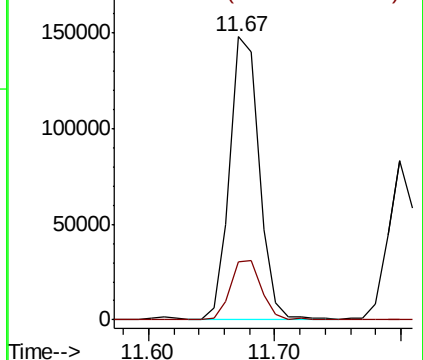
91 100

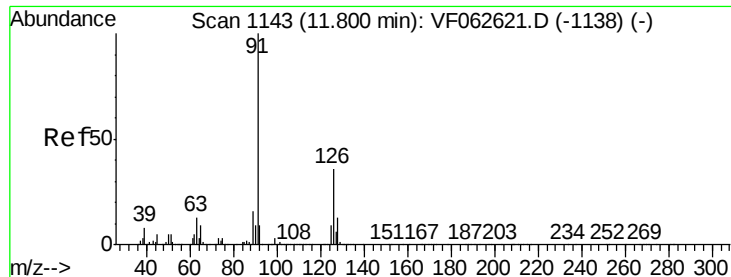
120 20.6 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.389 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

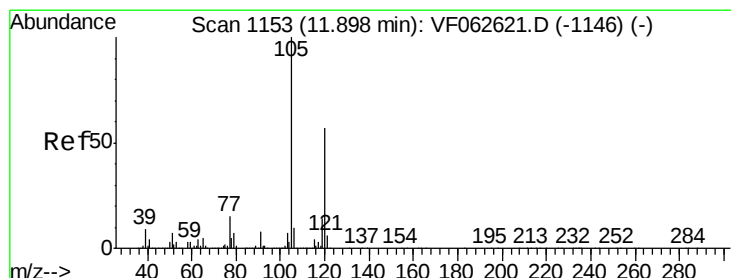
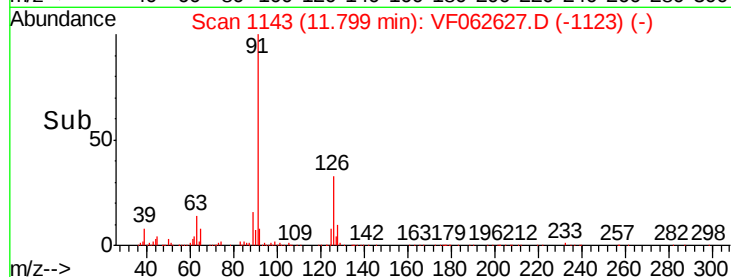
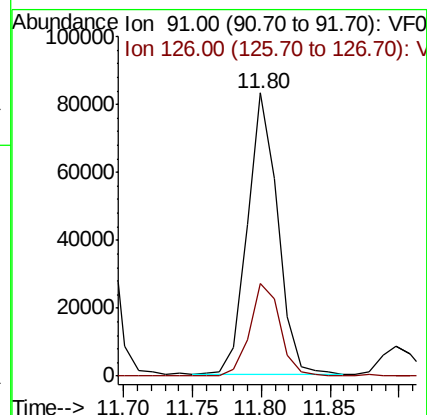
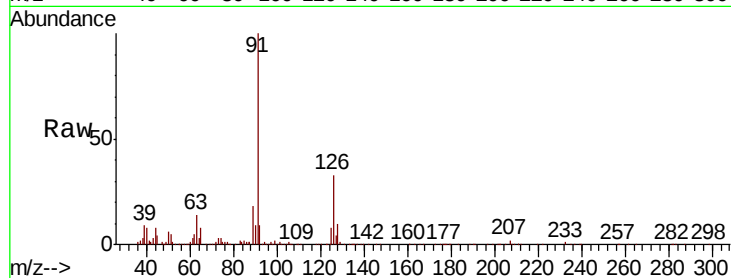
VSTDIC005

Tot Ion: 91 Resp: 127066

Ion Ratio Lower Upper

91 100

126 32.9 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 5.499 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VF062627.D

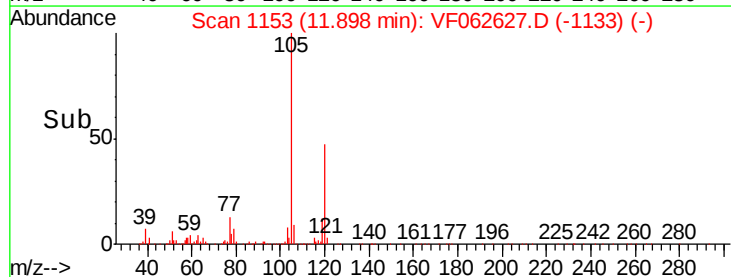
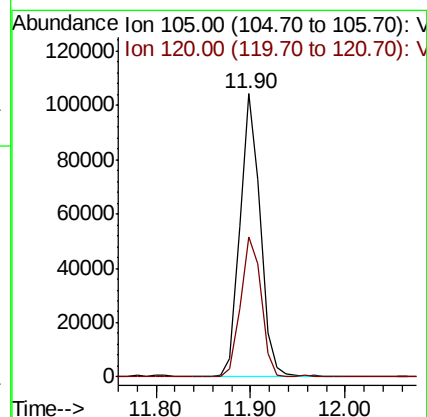
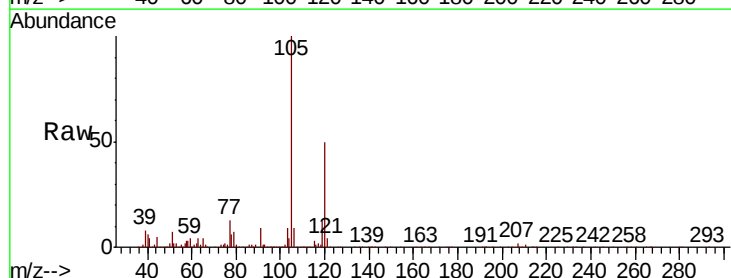
Acq: 16 May 2019 15:28

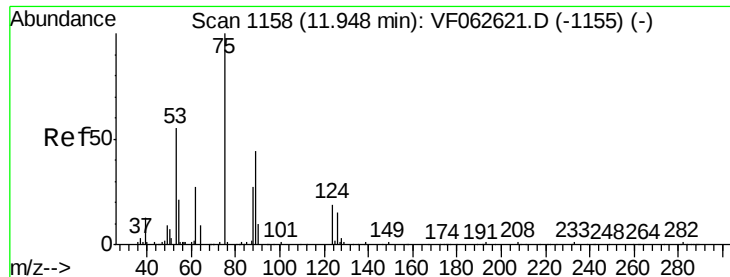
Tgt Ion: 105 Resp: 155876

Ion Ratio Lower Upper

105 100

120 49.6 28.7 86.3





#81

trans-1,4-Dichloro-2-butene

Concen: 5.385 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

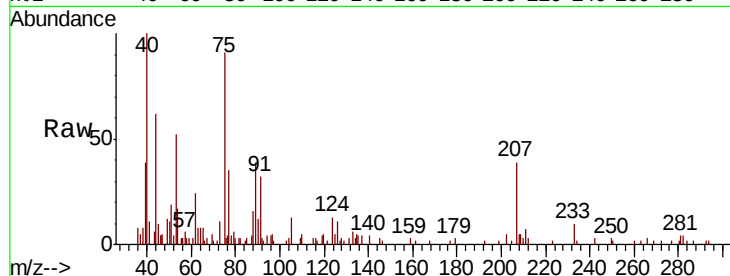
Tot Ion: 75 Resp: 14203

Ion Ratio Lower Upper

75 100

53 57.1 46.9 70.3

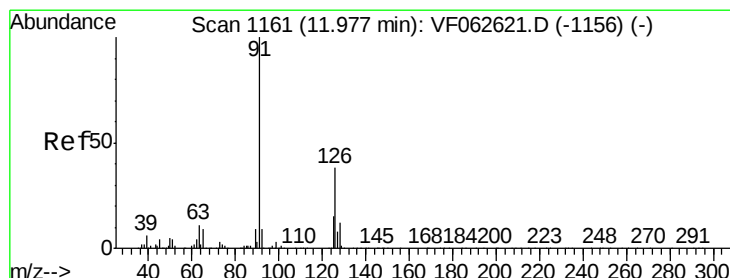
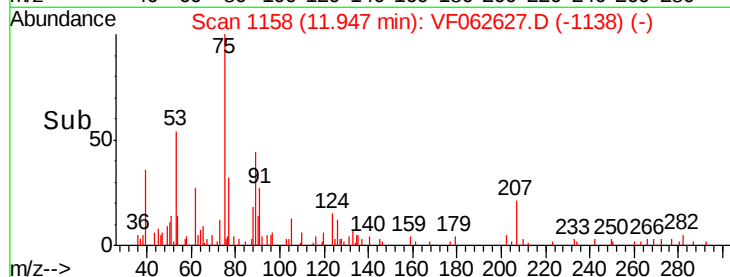
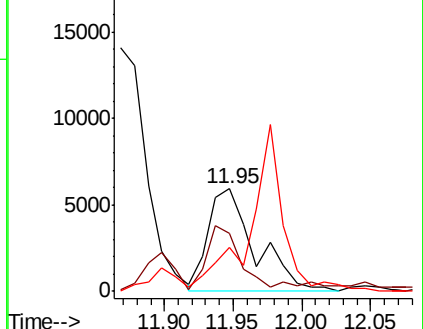
89 43.1 36.4 54.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 5.183 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. -0.00 min

Lab File: VF062627.D

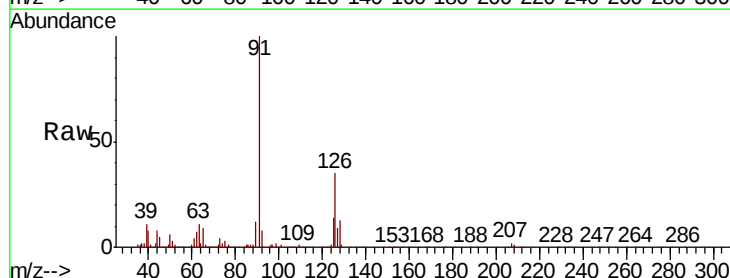
Acq: 16 May 2019 15:28

Tgt Ion: 91 Resp: 120507

Ion Ratio Lower Upper

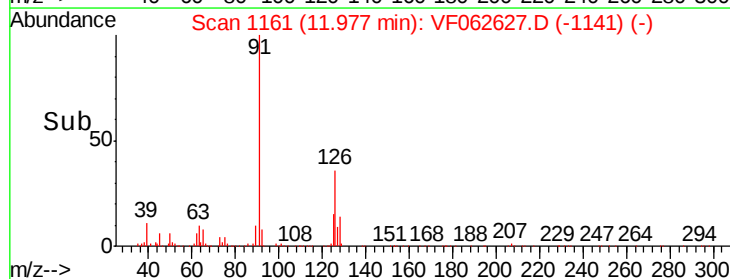
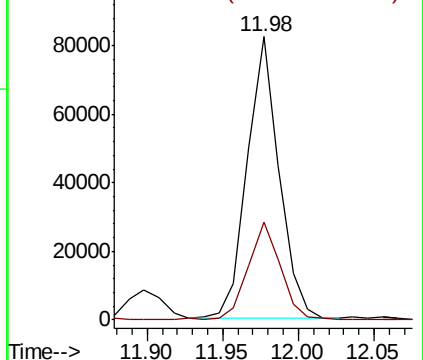
91 100

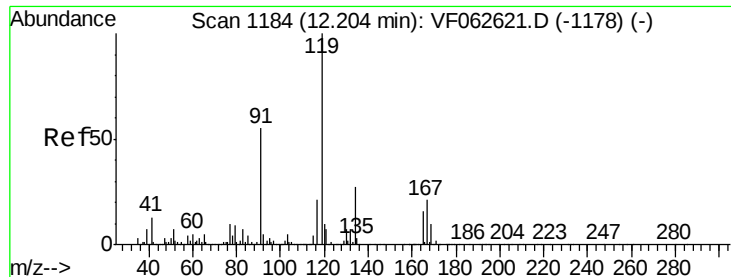
126 34.8 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

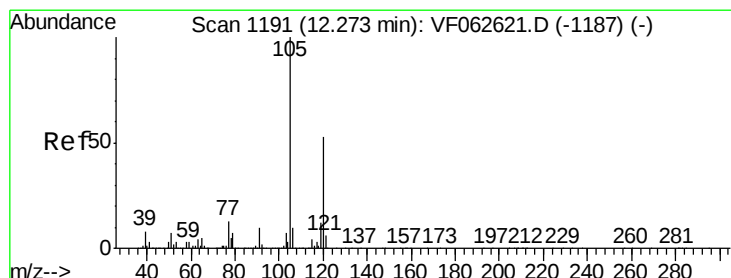
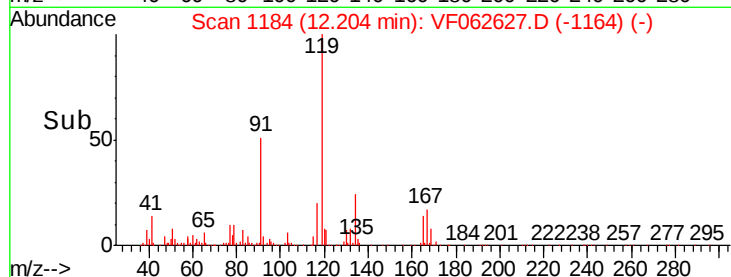
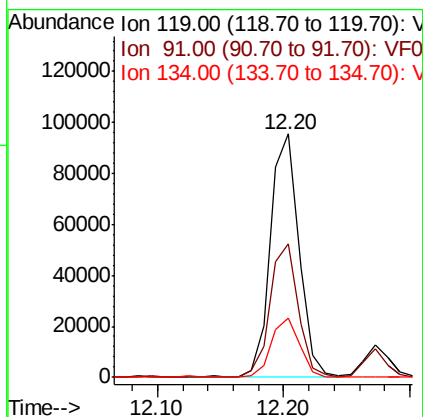
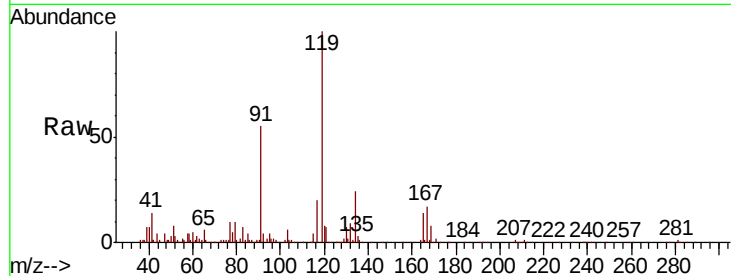




#83
tert-Butylbenzene
Concen: 5.260 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

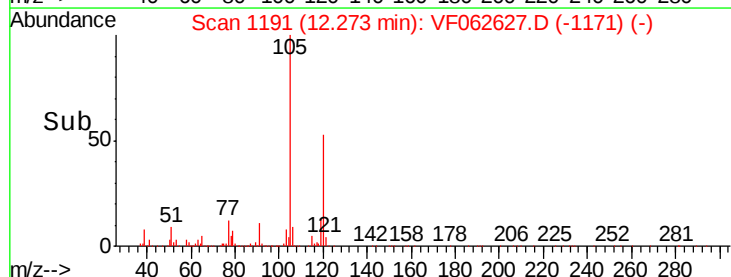
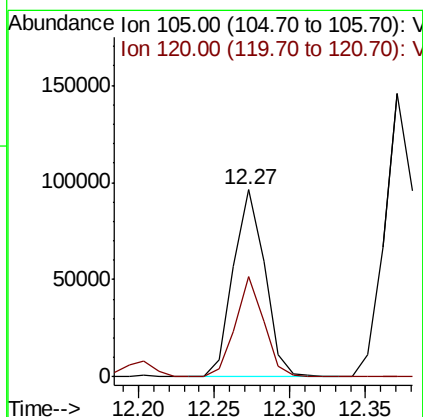
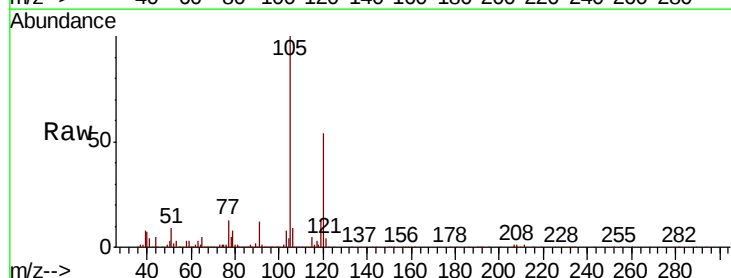
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

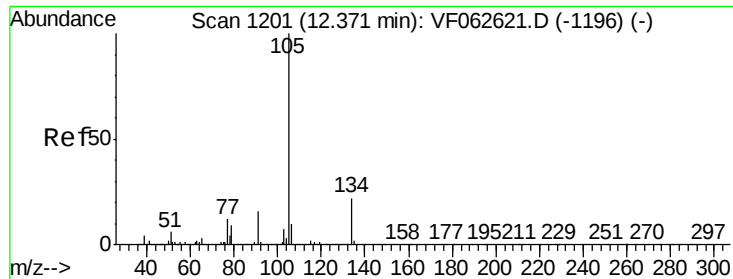
Tot Ion:119 Resp: 151271
Ion Ratio Lower Upper
119 100
91 54.6 27.3 81.9
134 24.5 13.6 40.7



#84
1,2,4-Trimethylbenzene
Concen: 5.105 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion:105 Resp: 140047
Ion Ratio Lower Upper
105 100
120 53.6 26.7 80.1





#85

sec-Butylbenzene

Concen: 5.351 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

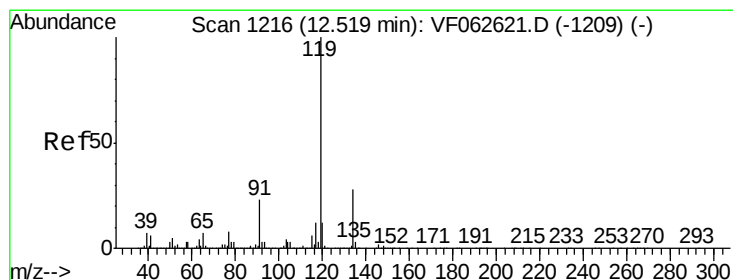
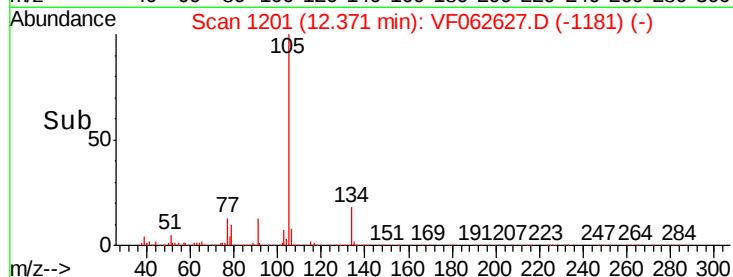
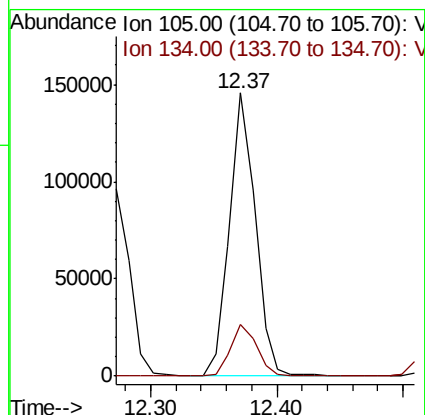
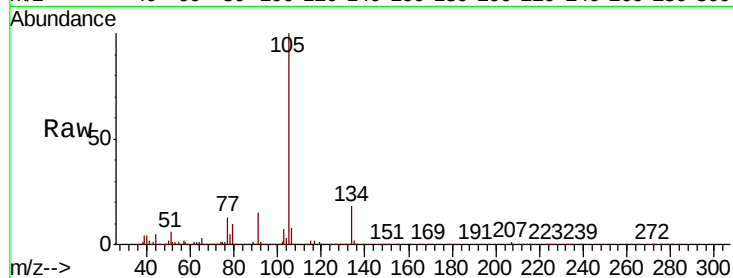
VSTDIC005

Tot Ion:105 Resp: 206498

Ion Ratio Lower Upper

105 100

134 18.3 10.8 32.4



#86

p-Isopropyltoluene

Concen: 5.297 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

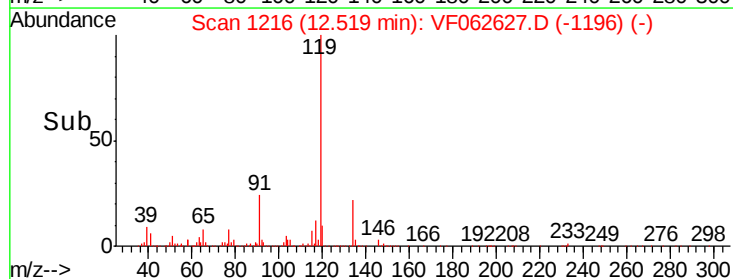
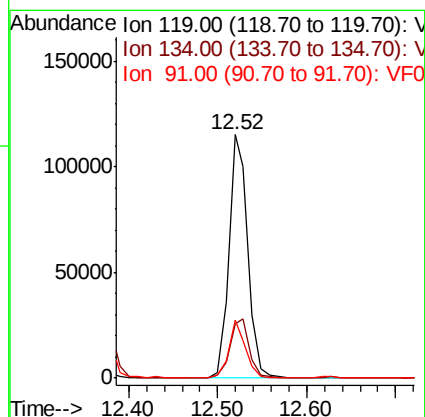
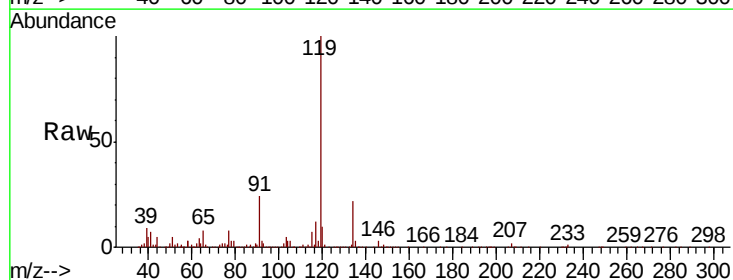
Tgt Ion:119 Resp: 172278

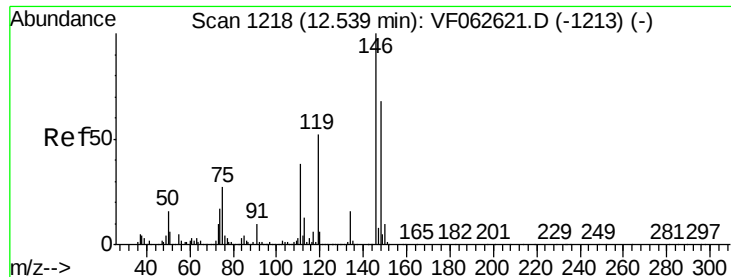
Ion Ratio Lower Upper

119 100

134 22.3 14.1 42.3

91 23.9 11.4 34.2

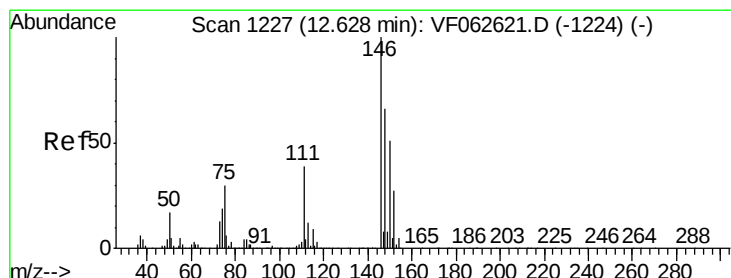
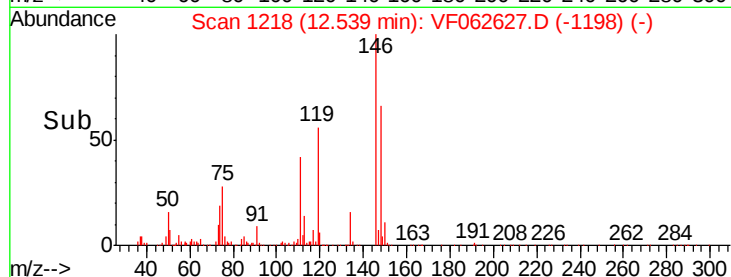
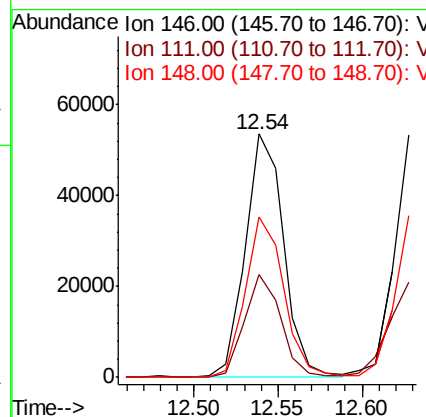
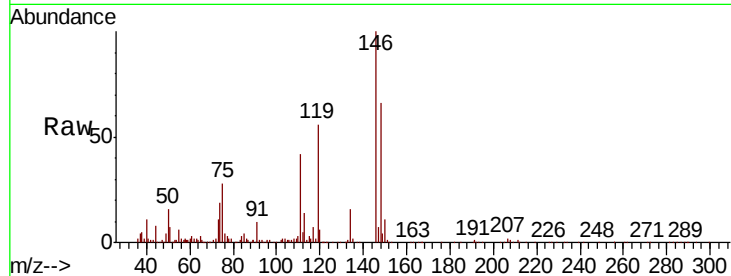




#87
 1,3-Dichlorobenzene
 Concen: 5.329 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

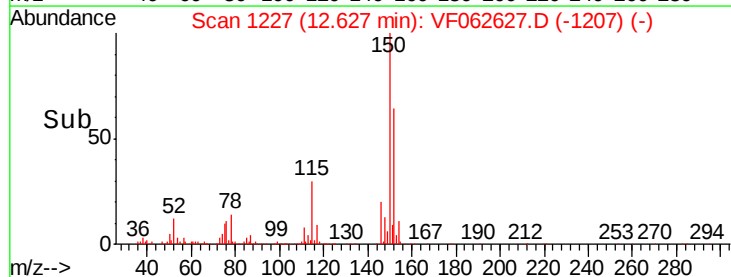
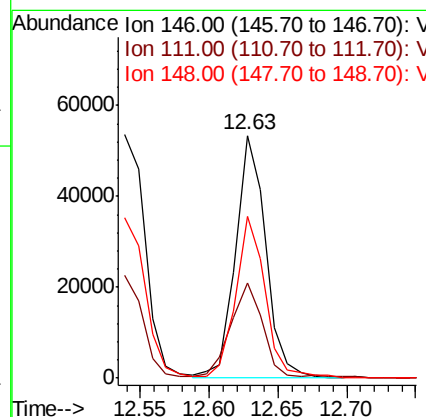
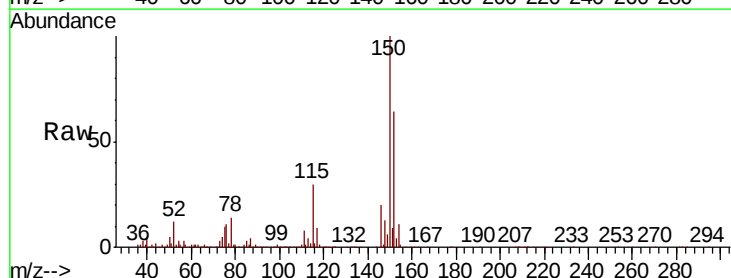
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

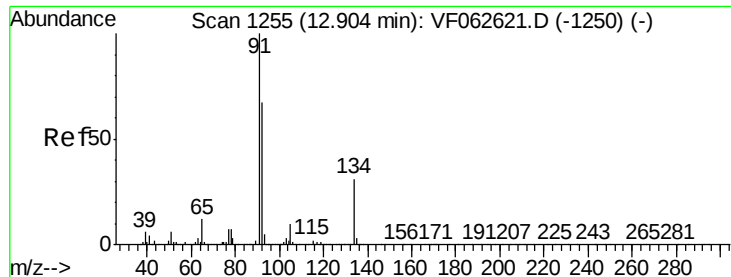
Tot Ion:146 Resp: 84723
 Ion Ratio Lower Upper
 146 100
 111 42.4 18.9 56.9
 148 65.9 34.0 101.8



#88
 1,4-Dichlorobenzene
 Concen: 5.458 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion:146 Resp: 81421
 Ion Ratio Lower Upper
 146 100
 111 39.2 19.4 58.2
 148 66.8 33.2 99.6

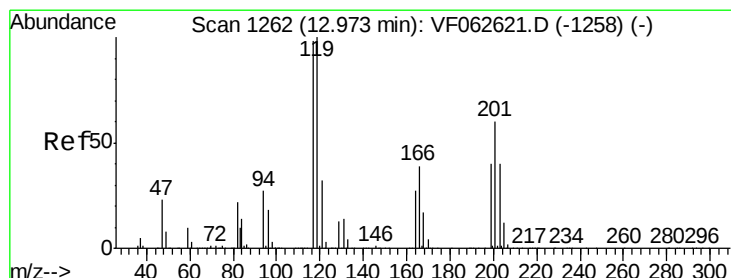
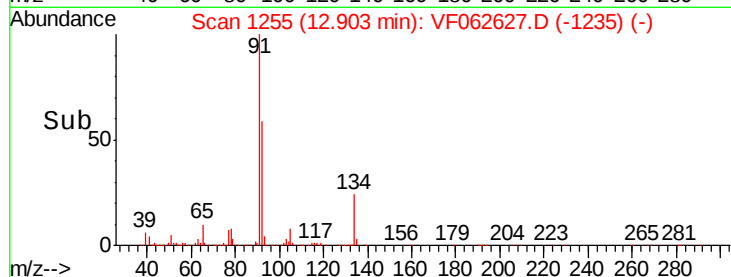
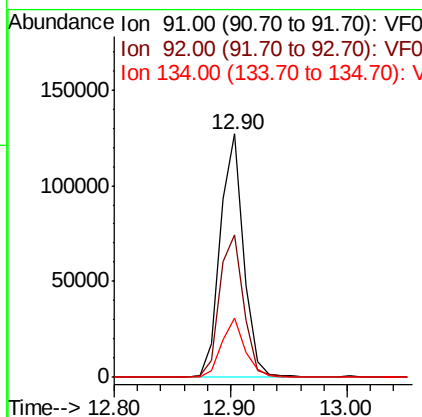
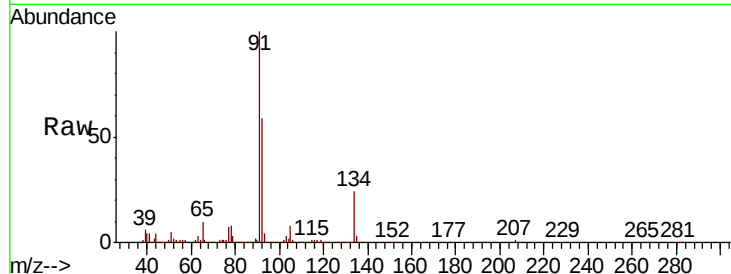




#89
n-Butylbenzene
Concen: 5.504 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

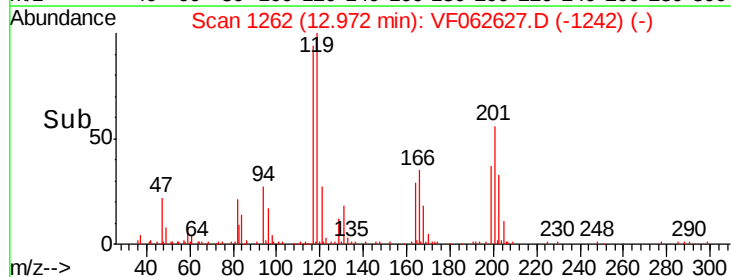
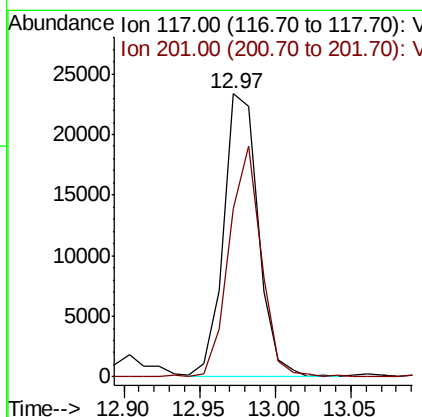
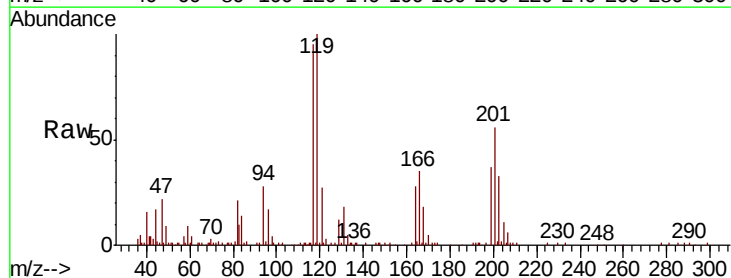
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

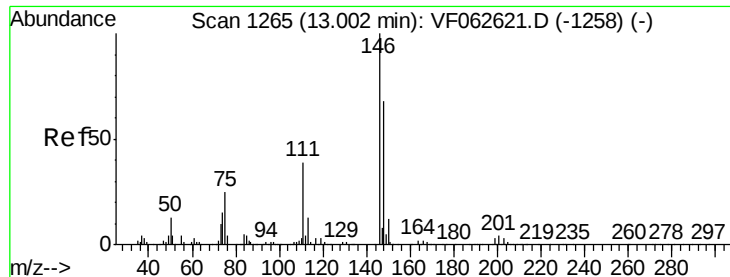
Tot Ion	Ratio	Lower	Upper
91	100		
92	58.7	33.3	99.8
134	24.4	15.4	46.4



#90
Hexachloroethane
Concen: 4.770 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VF062627.D
Acq: 16 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	61.3	30.7	92.1

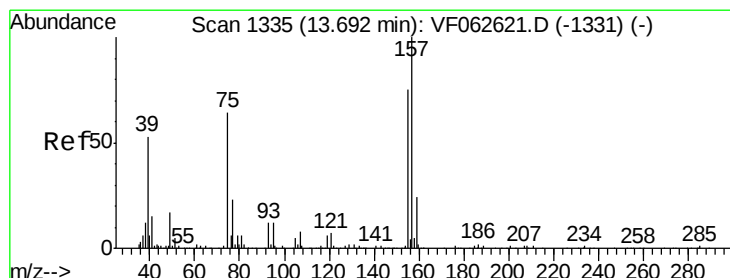
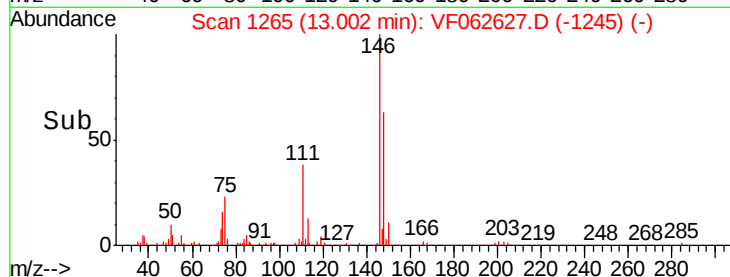
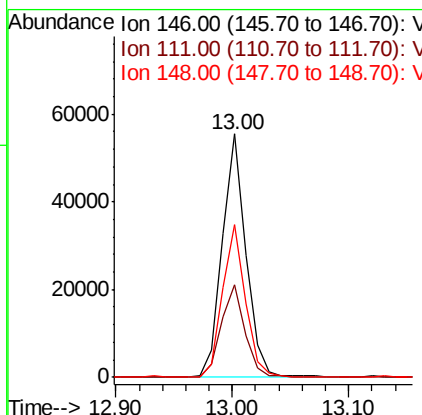
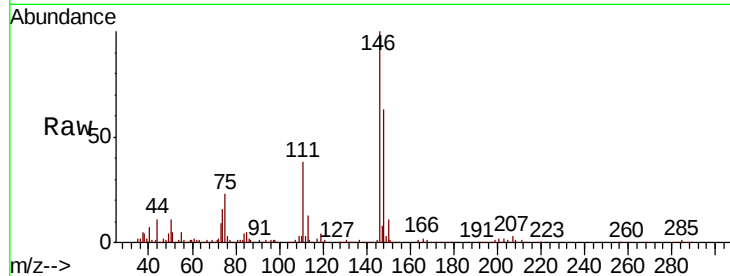




#91
 1,2-Dichlorobenzene
 Concen: 5.551 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

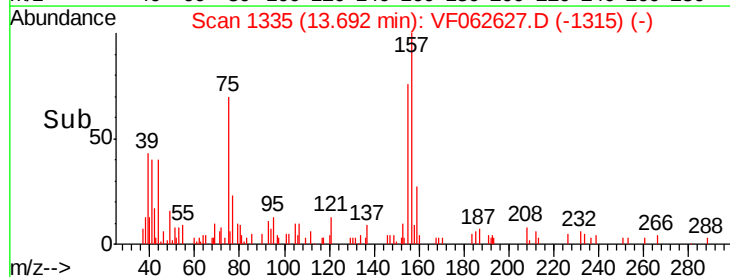
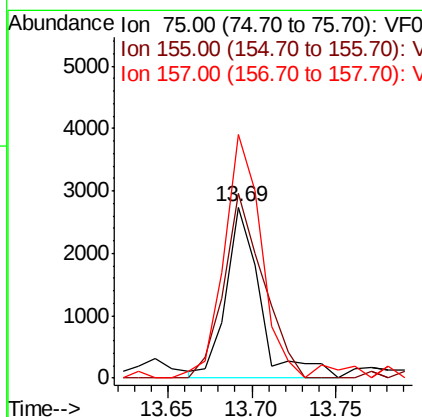
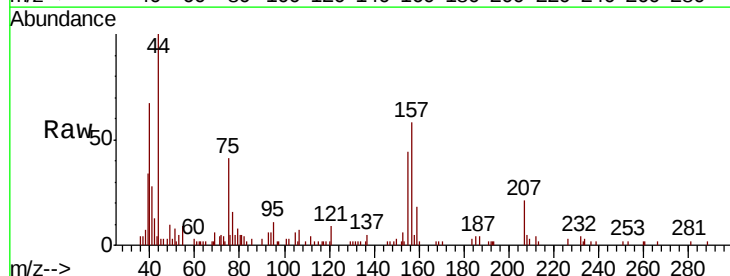
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

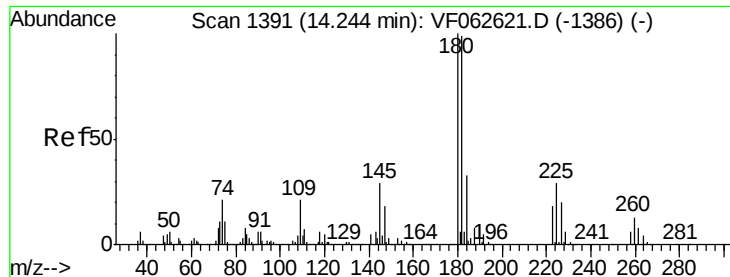
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.8	59.3
148	62.6	34.1	102.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.497 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	108.4	58.1	174.3
157	142.5	77.8	233.4

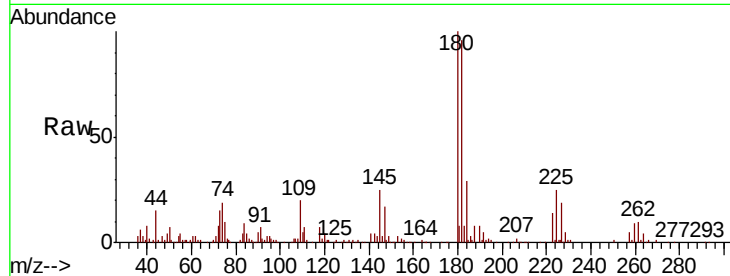




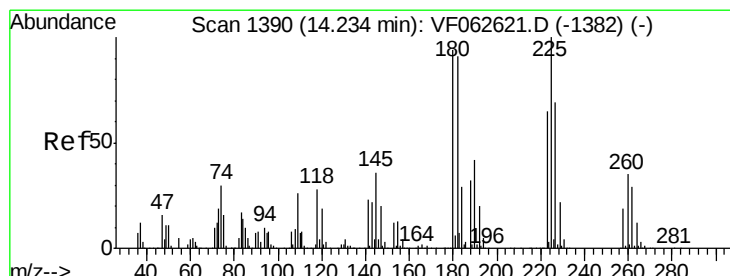
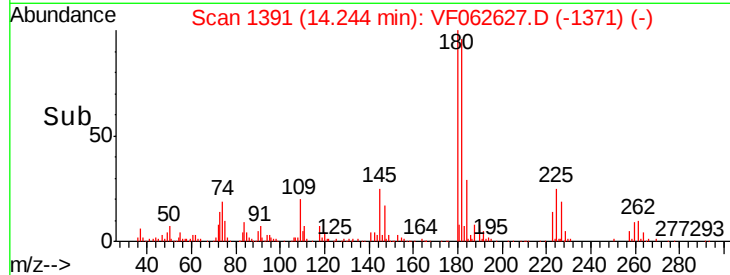
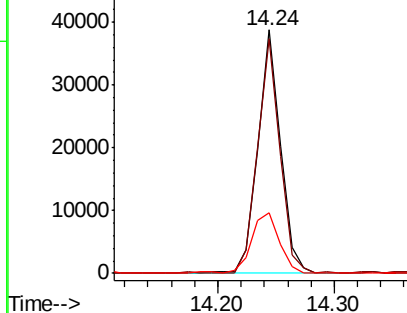
#93
 1,2,4-Trichlorobenzene
 Concen: 5.144 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion:180 Resp: 52176
 Ion Ratio Lower Upper
 180 100
 182 96.1 49.7 149.1
 145 24.6 14.6 44.0

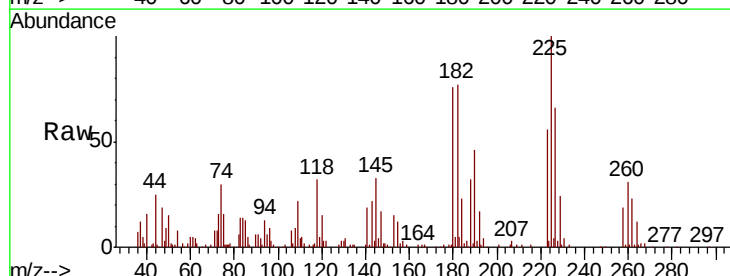


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

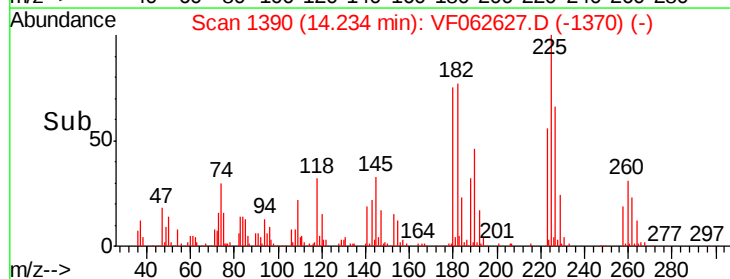
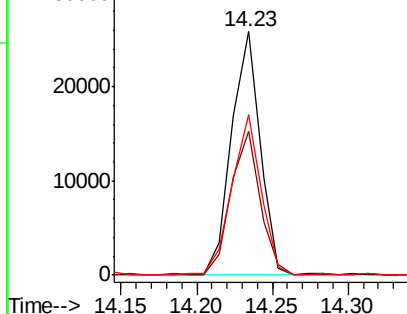


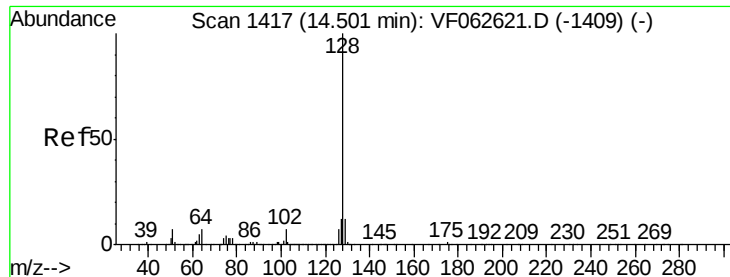
#94
 Hexachlorobutadiene
 Concen: 4.809 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062627.D
 Acq: 16 May 2019 15:28

Tgt Ion:225 Resp: 34041
 Ion Ratio Lower Upper
 225 100
 223 59.1 32.5 97.4
 227 66.0 34.5 103.5



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 4.930 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

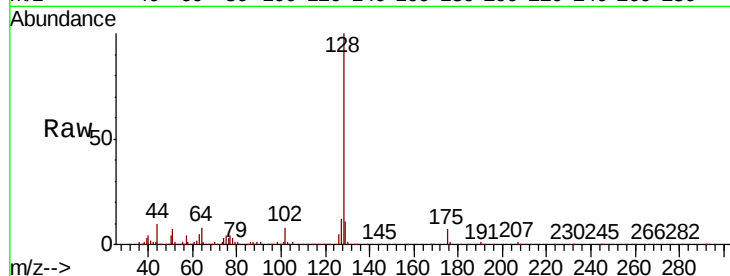
Tot Ion:128 Resp: 90857

Ion Ratio Lower Upper

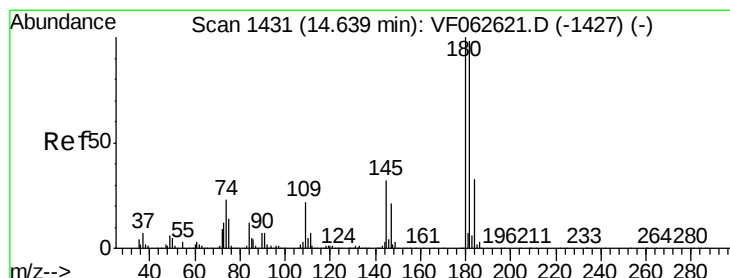
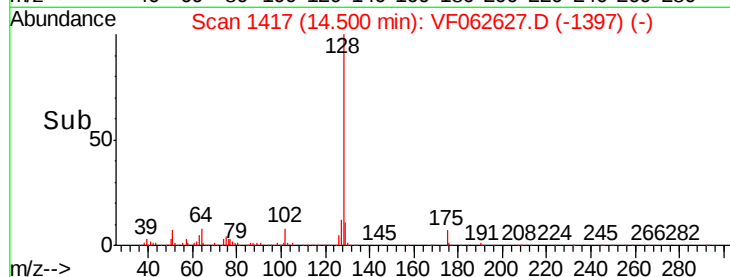
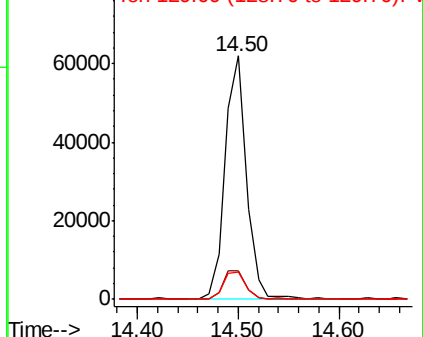
128 100

127 11.9 9.7 14.5

129 11.1 9.3 13.9



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



#96

1,2,3-Trichlorobenzene

Concen: 4.880 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062627.D

Acq: 16 May 2019 15:28

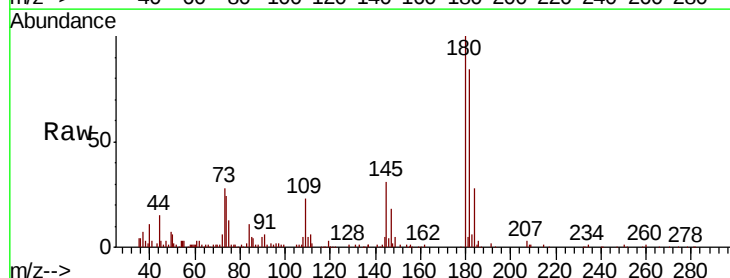
Tgt Ion:180 Resp: 46886

Ion Ratio Lower Upper

180 100

182 84.2 48.9 146.7

145 30.5 16.1 48.2



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

