

Data File : VN064109.D
Acq On : 13 Oct 2020 18:22
Operator : JC/MD
Sample : L4381-07
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
COMP-FRAC-TANKS

Quant Time: Oct 14 03:02:44 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	218568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	401825	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	403829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161091	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	180911	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
35) Dibromofluoromethane	7.55	113	133495	47.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.76%	
50) Toluene-d8	10.06	98	509911	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
62) 4-Bromofluorobenzene	12.38	95	193895	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	

Target Compounds

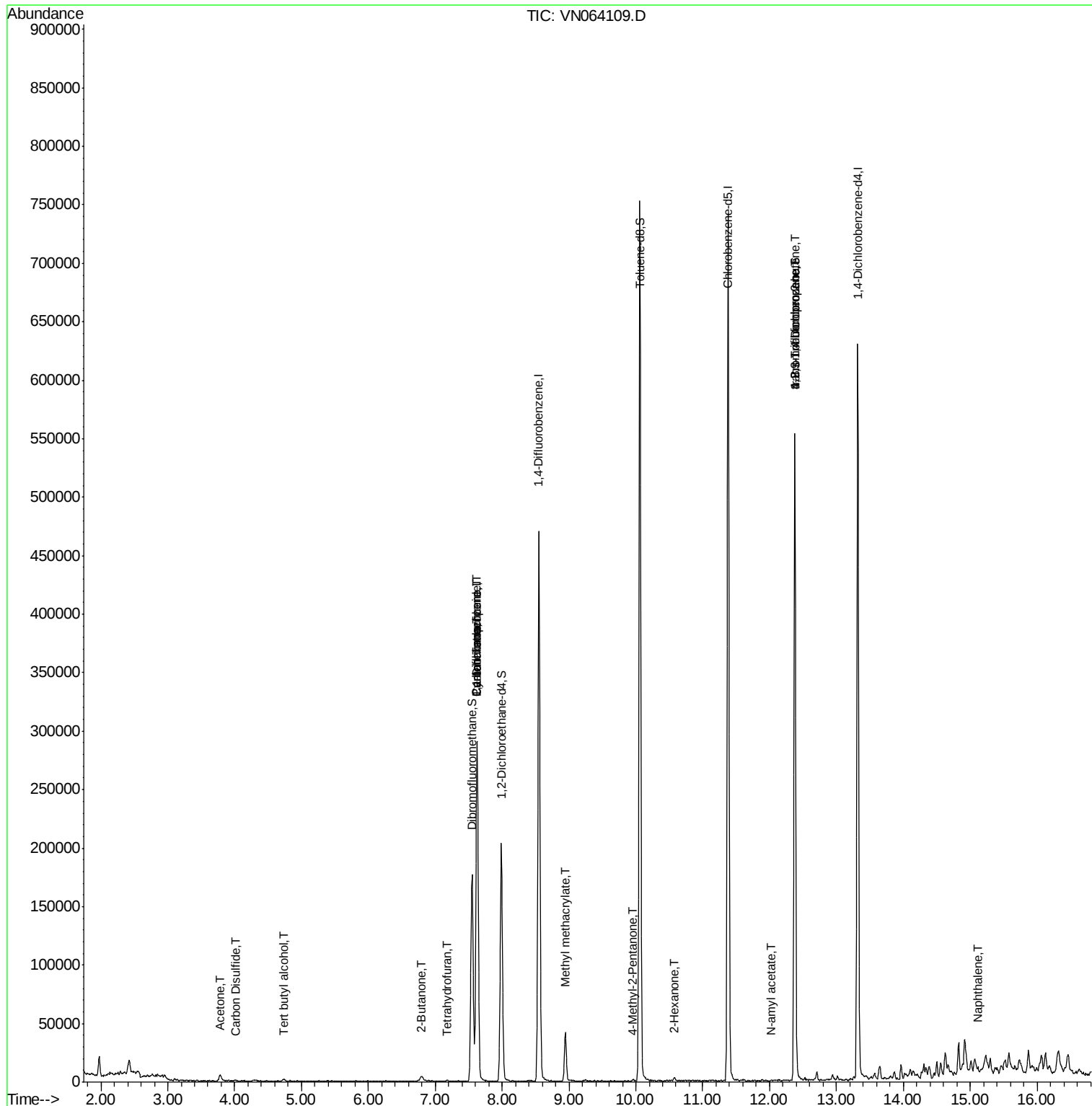
						Qvalue
11) Tert butyl alcohol	4.74	59	973	2.441	ug/l #	71
16) Acetone	3.78	43	4766	4.288	ug/l	100
17) Carbon Disulfide	4.01	76	429	0.772	ug/l #	76
25) 2-Butanone	6.80	43	6100	3.871	ug/l	100
29) Tetrahydrofuran	7.17	42	494	0.467	ug/l #	53
31) Cyclohexane	7.63	56	5854	1.396	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	19598	4.814	ug/l #	51
38) Carbon Tetrachloride	7.63	117	22916	5.020	ug/l #	15
48) Methyl methacrylate	8.95	41	13435	4.076	ug/l #	39
51) 4-Methyl-2-Pentanone	9.96	43	1386	0.354	ug/l #	67
59) 2-Hexanone	10.58	43	1882	0.647	ug/l	72
74) N-amyl acetate	12.03	43	149	2.242	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	104776	29.505	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	104776	84.980	ug/l #	6
95) Naphthalene	15.11	128	1074	2.043	ug/l #	81

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

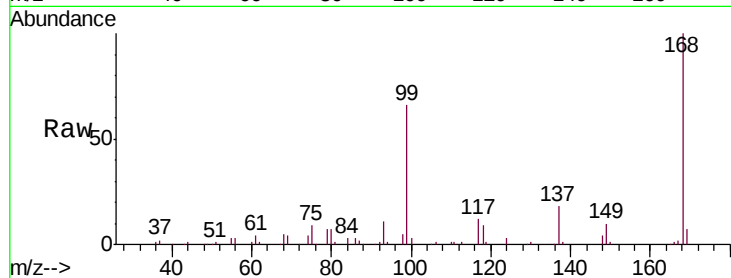
COMP-FRAC-TANKS

Tgt Ion:168 Resp: 218568

Ion Ratio Lower Upper

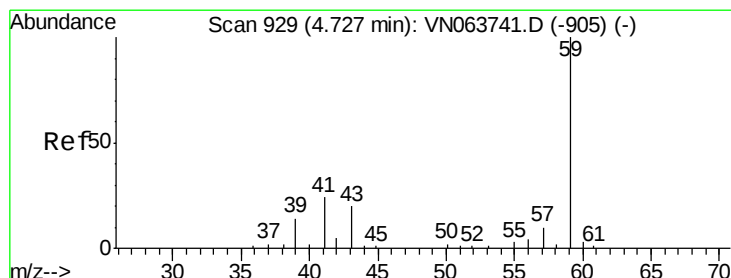
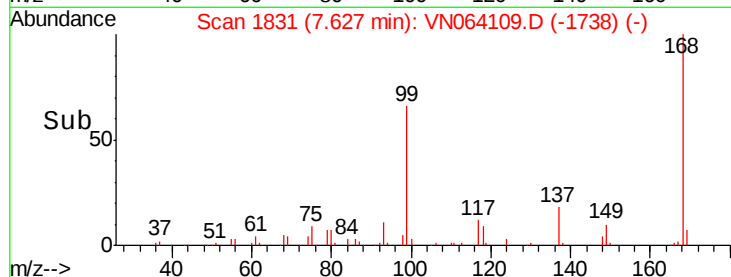
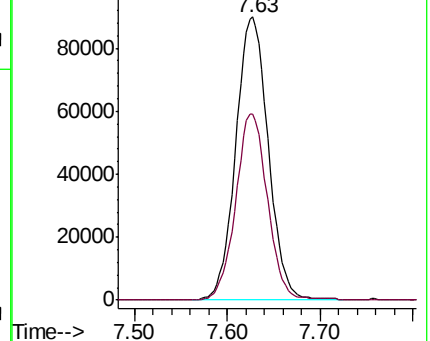
168 100

99 65.7 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 2.441 ug/l

RT: 4.74 min Scan# 933

Delta R.T. 0.01 min

Lab File: VN064109.D

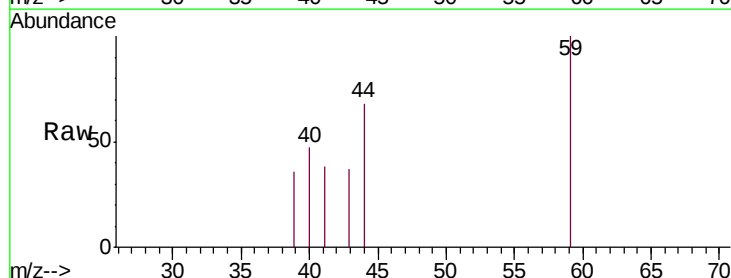
Acq: 13 Oct 2020 18:22

Tgt Ion: 59 Resp: 973

Ion Ratio Lower Upper

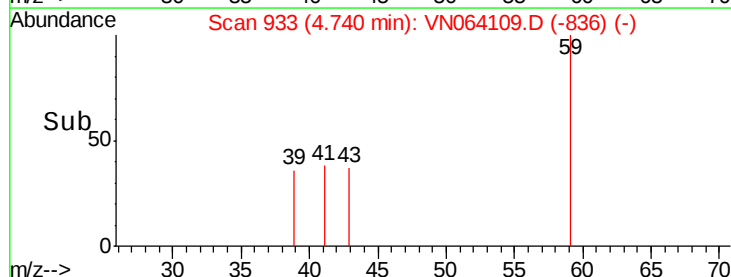
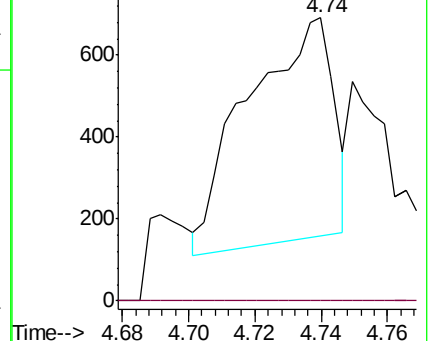
59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 4.288 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

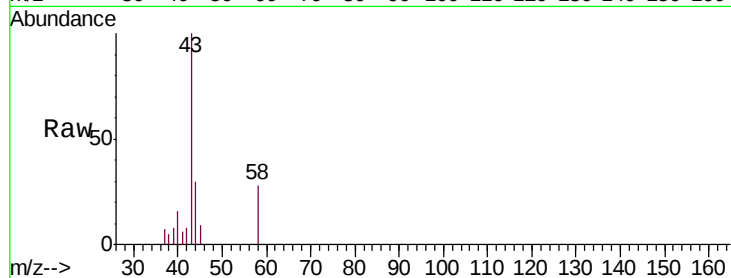
COMP-FRAC-TANKS

Tgt Ion: 43 Resp: 4766

Ion Ratio Lower Upper

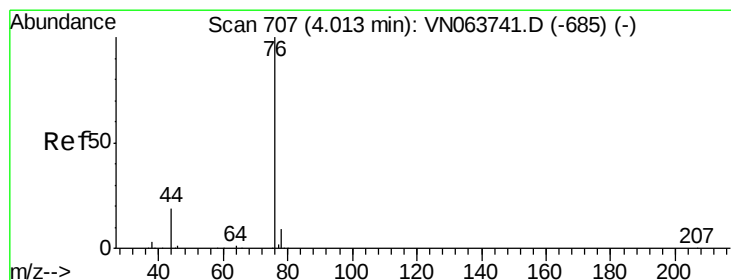
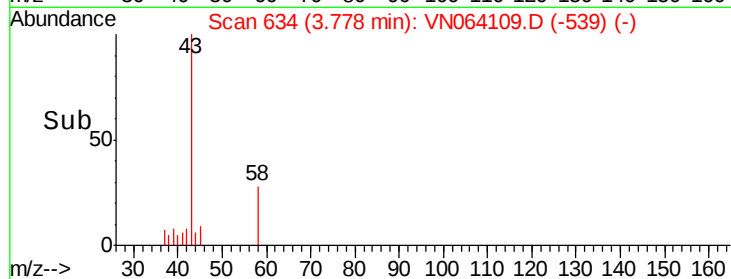
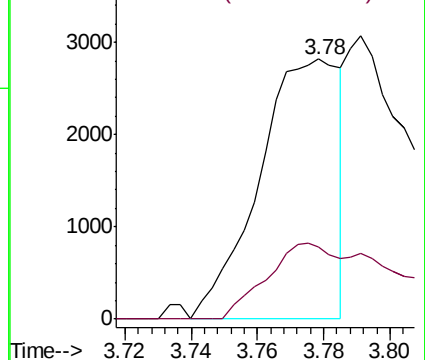
43 100

58 27.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN064109.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN064109.D (-599) (-)



#17

Carbon Disulfide

Concen: 0.772 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN064109.D

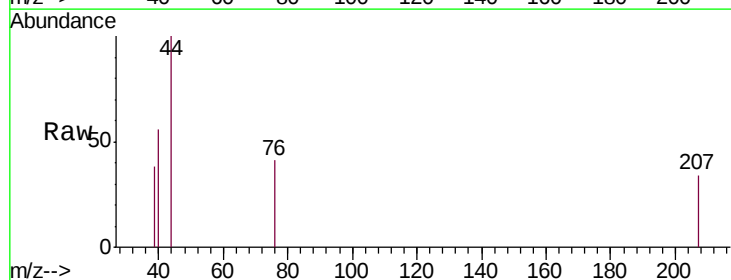
Acq: 13 Oct 2020 18:22

Tgt Ion: 76 Resp: 429

Ion Ratio Lower Upper

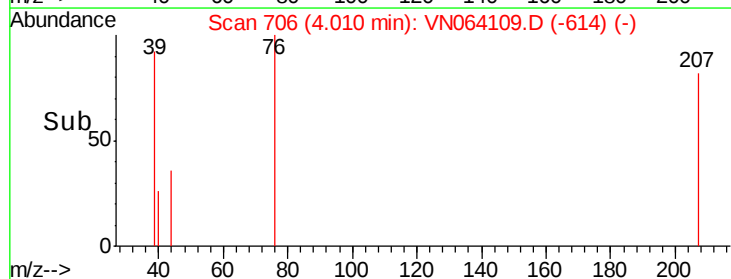
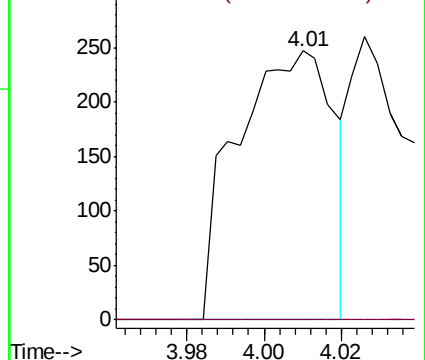
76 100

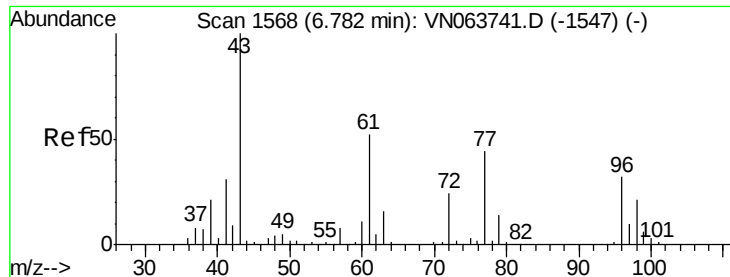
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN064109.D (-614) (-)

Ion 77.90 (77.60 to 78.60): VN064109.D (-614) (-)





#25

2-Butanone

Concen: 3.871 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

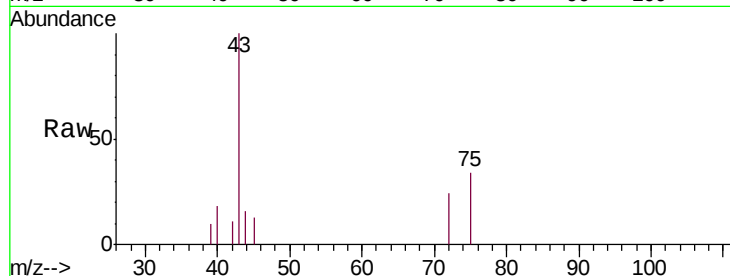
COMP-FRAC-TANKS

Tgt Ion: 43 Resp: 6100

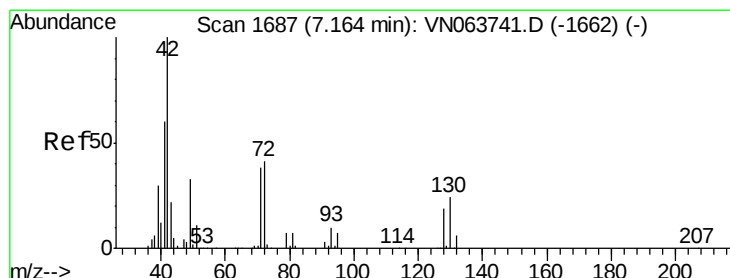
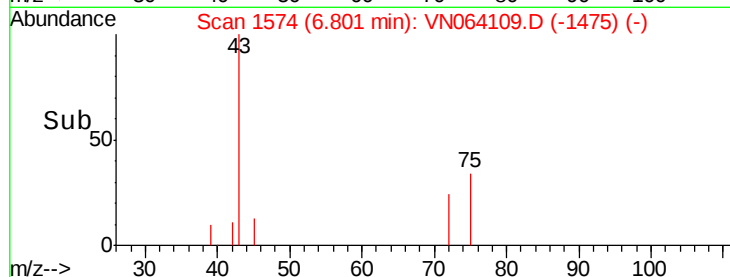
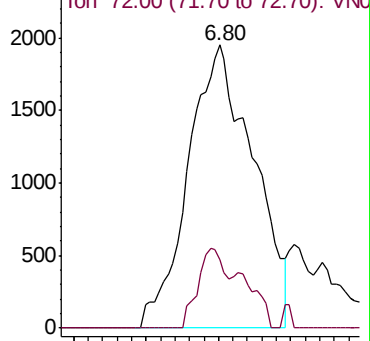
Ion Ratio Lower Upper

43 100

72 24.1 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-1547) (-)



#29

Tetrahydrofuran

Concen: 0.467 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

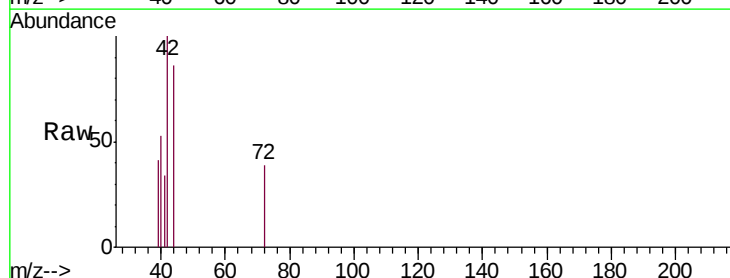
Tgt Ion: 42 Resp: 494

Ion Ratio Lower Upper

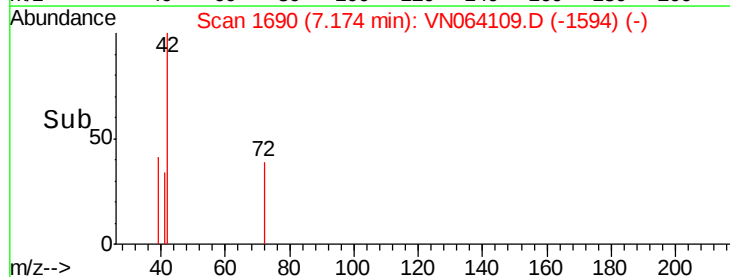
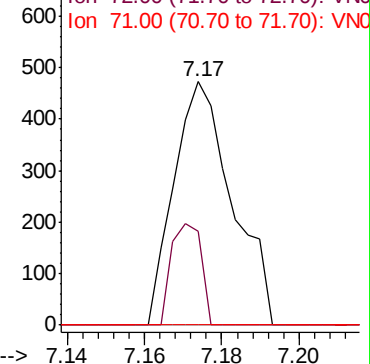
42 100

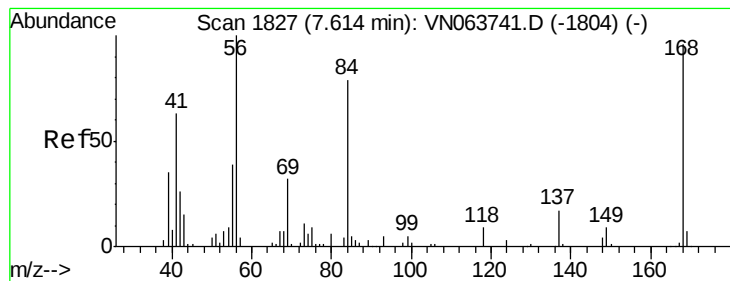
72 21.3 32.8 49.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN063741.D (-1662) (-)





#31

Cyclohexane

Concen: 1.396 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

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ClientSampleId :

COMP-FRAC-TANKS

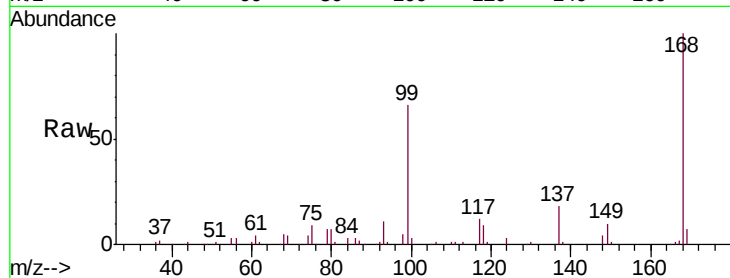
Tgt Ion: 56 Resp: 5854

Ion Ratio Lower Upper

56 100

69 136.5 25.4 38.2#

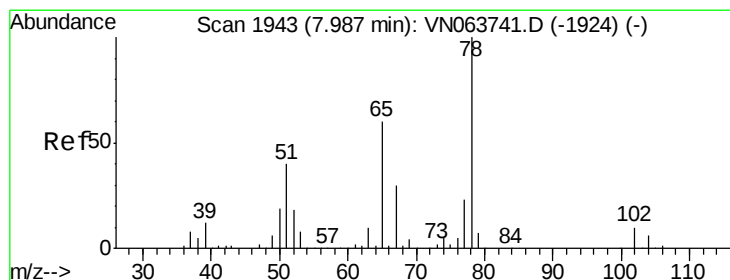
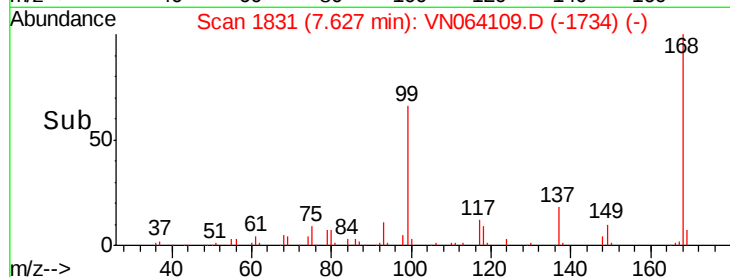
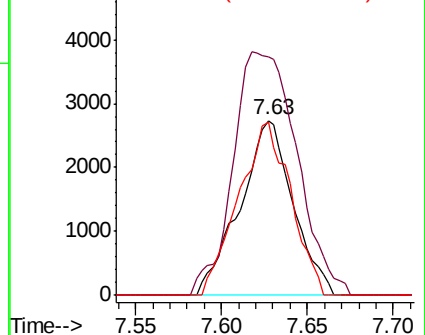
84 98.9 63.3 94.9#



Abundance Ion 56.00 (55.70 to 56.70): VN063741.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN063741.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN063741.D (-1804) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.101 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064109.D

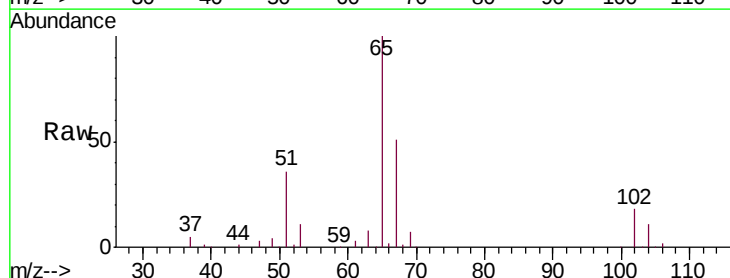
Acq: 13 Oct 2020 18:22

Tgt Ion: 65 Resp: 180911

Ion Ratio Lower Upper

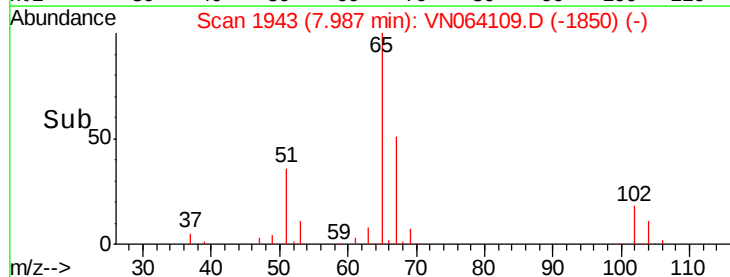
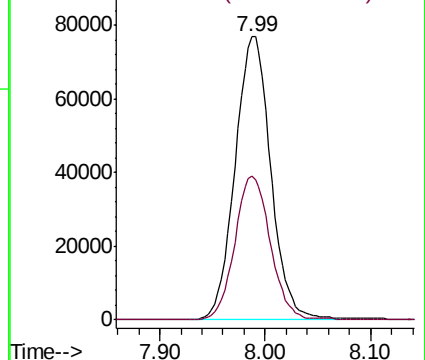
65 100

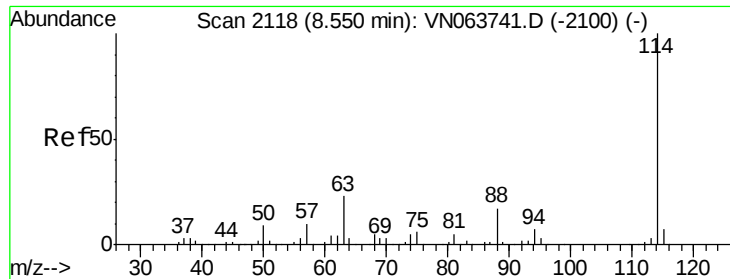
67 50.6 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)

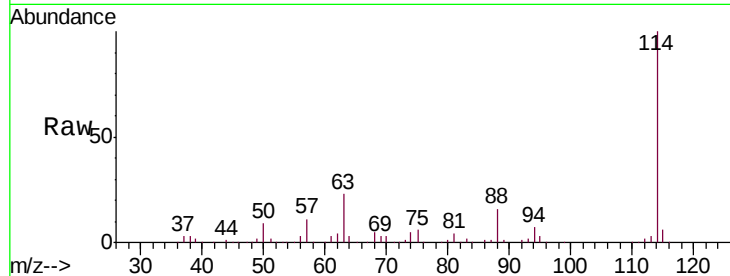




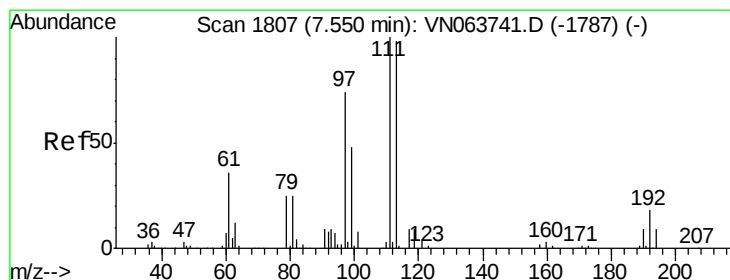
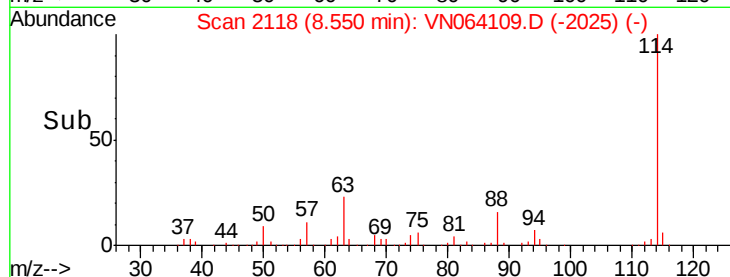
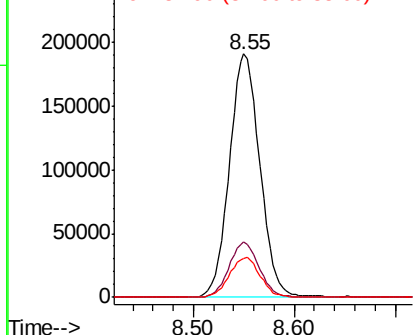
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064109.D
 Acq: 13 Oct 2020 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-FRAC-TANKS

Tgt Ion:114 Resp: 401825
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 45.0
 88 16.1 0.0 34.0

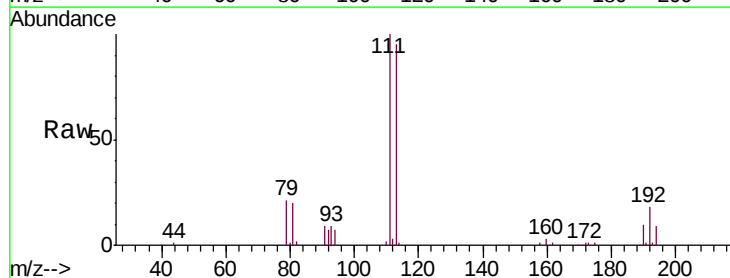


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

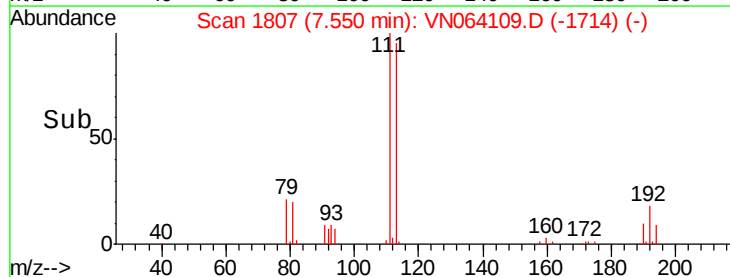
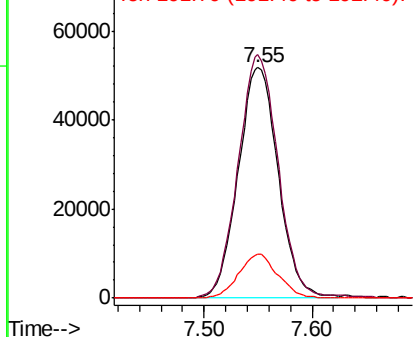


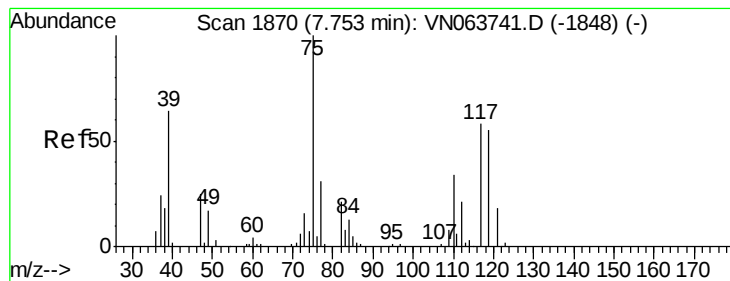
#35
 Dibromofluoromethane
 Concen: 47.879 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064109.D
 Acq: 13 Oct 2020 18:22

Tgt Ion:113 Resp: 133495
 Ion Ratio Lower Upper
 113 100
 111 105.1 81.8 122.8
 192 18.6 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.814 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

COMP-FRAC-TANKS

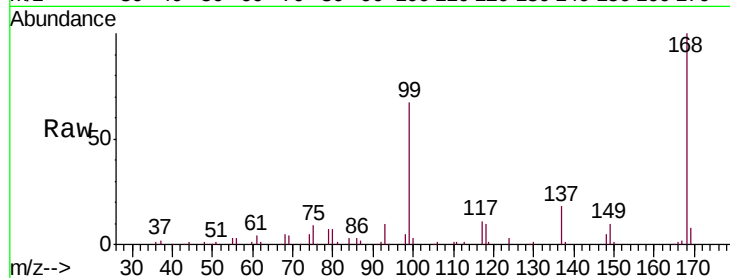
Tgt Ion: 75 Resp: 19598

Ion Ratio Lower Upper

75 100

110 9.2 16.9 50.6#

77 0.0 24.5 36.7#

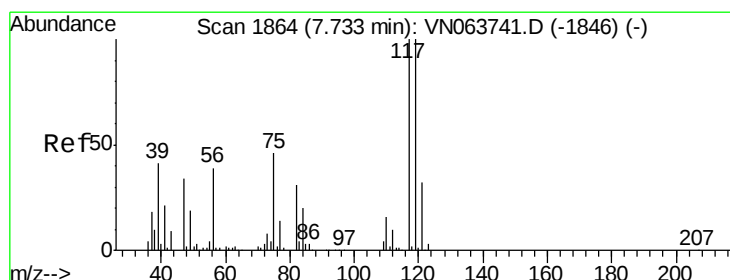
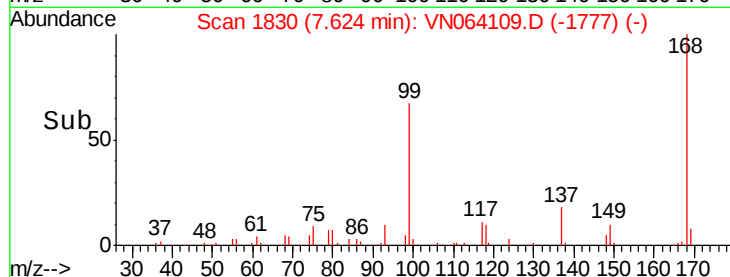


Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063741.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063741.D (-1848) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.020 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

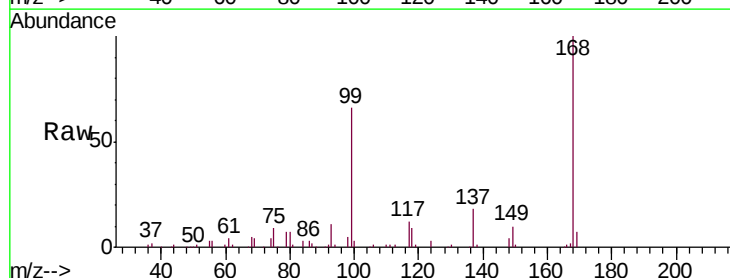
Tgt Ion: 117 Resp: 22916

Ion Ratio Lower Upper

117 100

119 6.1 80.1 120.1#

121 0.0 25.7 38.5#

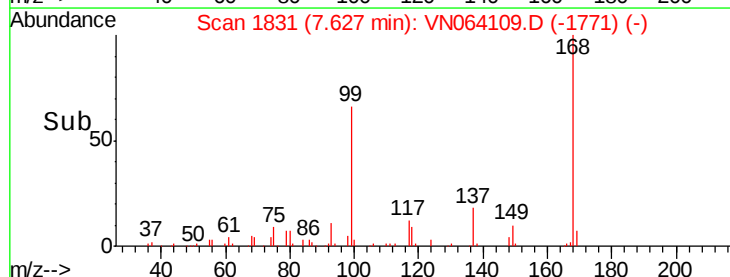


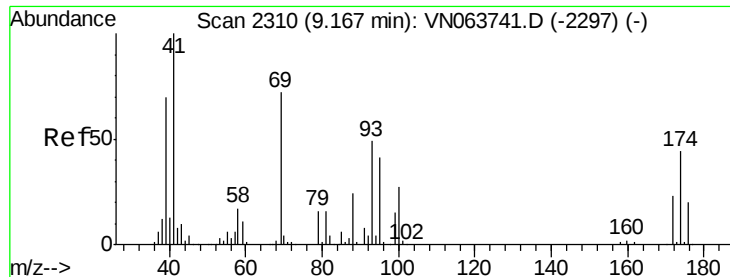
Abundance Ion 116.80 (116.50 to 117.50): VN063741.D (-1846) (-)

Ion 118.80 (118.50 to 119.50): VN063741.D (-1846) (-)

Ion 120.80 (120.50 to 121.50): VN063741.D (-1846) (-)

Time-->

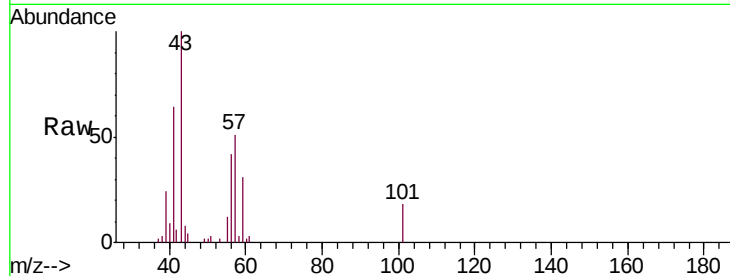




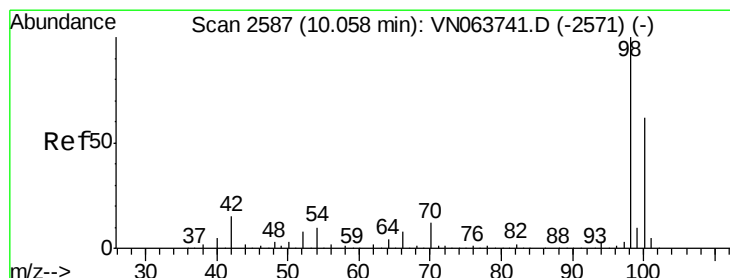
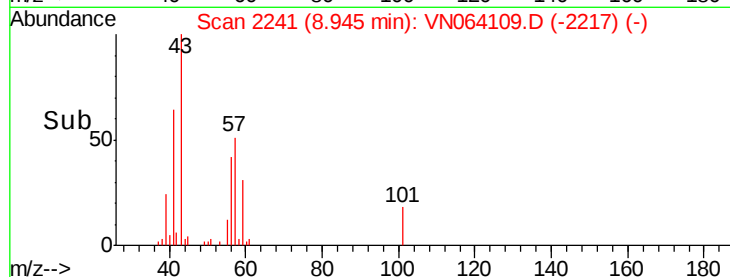
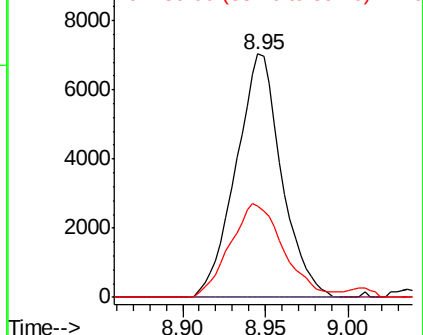
#48
Methyl methacrylate
Concen: 4.076 ug/l
RT: 8.95 min Scan# 2241
Delta R.T. -0.22 min
Lab File: VN064109.D
Acq: 13 Oct 2020 18:22

Instrument :
MSVOA_N
ClientSampleId :
COMP-FRAC-TANKS

Tgt Ion: 41 Resp: 13435
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 45.2 57.5 86.3#

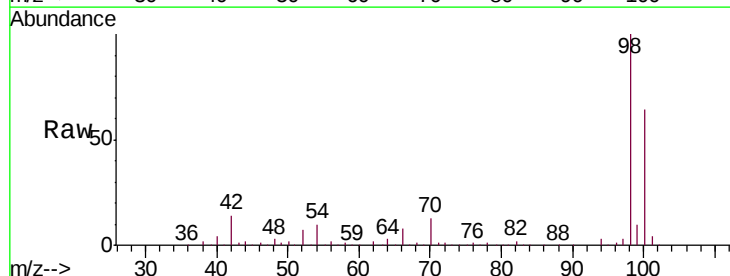


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

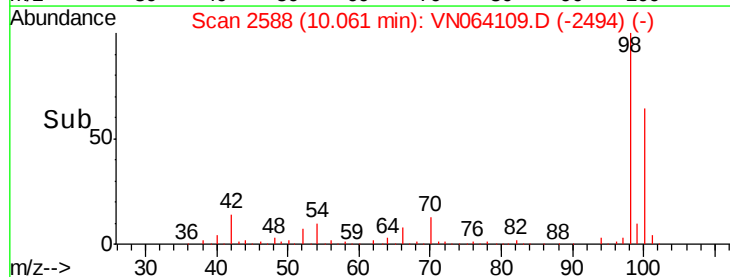
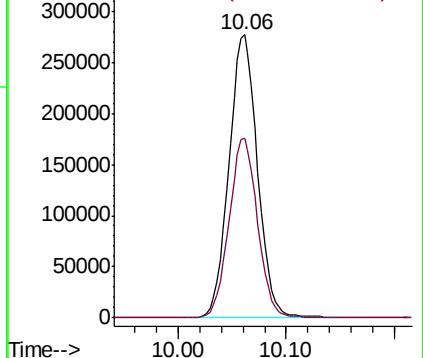


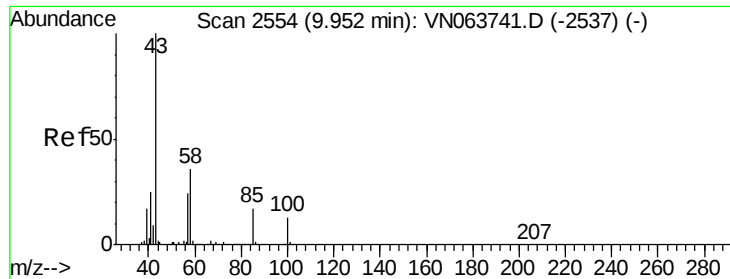
#50
Toluene-d8
Concen: 48.243 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064109.D
Acq: 13 Oct 2020 18:22

Tgt Ion: 98 Resp: 509911
Ion Ratio Lower Upper
98 100
100 63.4 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

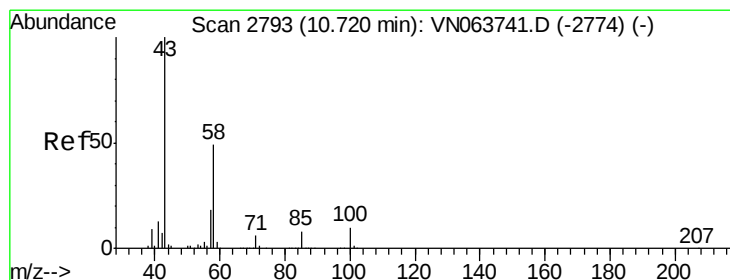
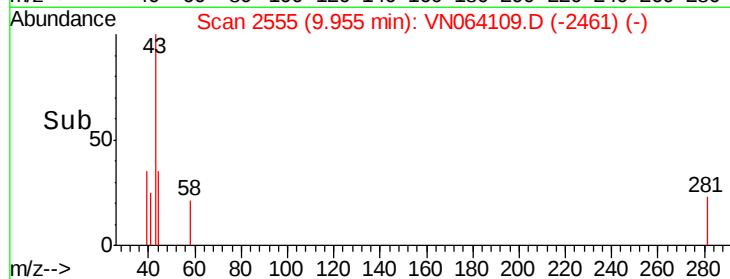
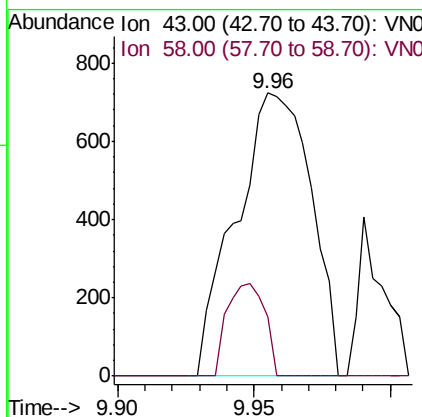
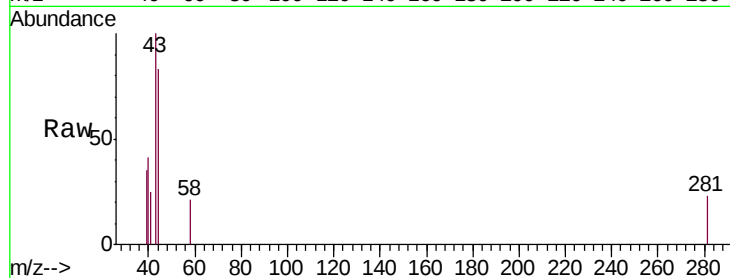




#51
 4-Methyl-2-Pentanone
 Concen: 0.354 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064109.D
 Acq: 13 Oct 2020 18:22

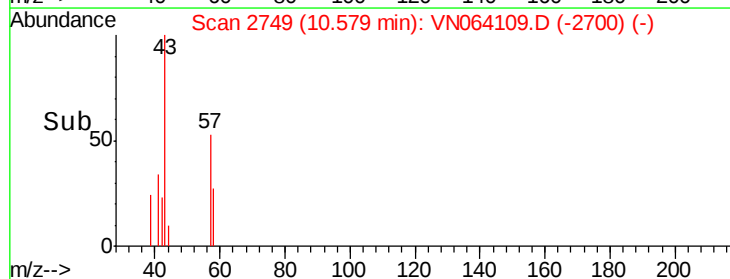
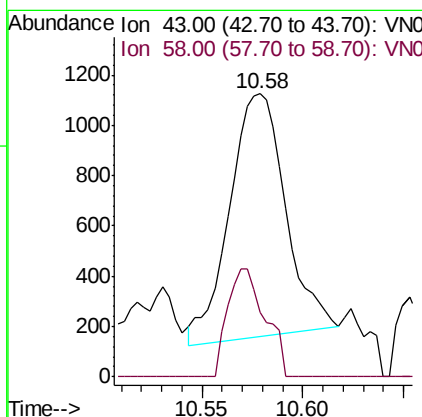
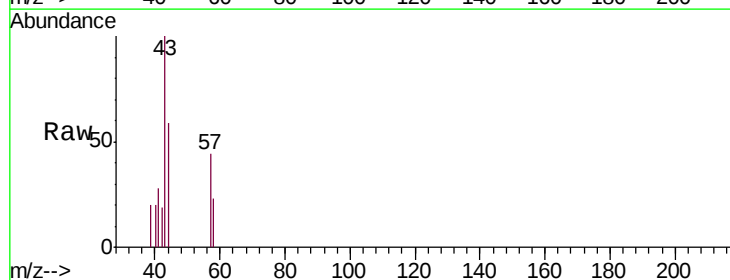
Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-FRAC-TANKS

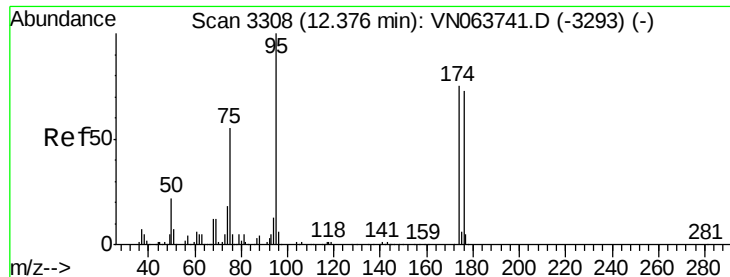
Tgt Ion: 43 Resp: 1386
 Ion Ratio Lower Upper
 43 100
 58 16.5 28.4 42.6#



#59
 2-Hexanone
 Concen: 0.647 ug/l
 RT: 10.58 min Scan# 2749
 Delta R.T. -0.14 min
 Lab File: VN064109.D
 Acq: 13 Oct 2020 18:22

Tgt Ion: 43 Resp: 1882
 Ion Ratio Lower Upper
 43 100
 58 29.8 24.6 73.8





#62

4-Bromofluorobenzene

Concen: 48.800 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

COMP-FRAC-TANKS

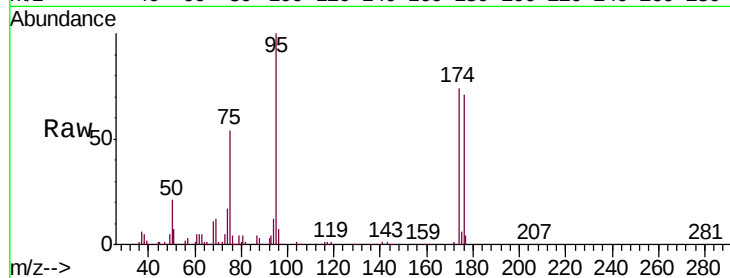
Tgt Ion: 95 Resp: 193895

Ion Ratio Lower Upper

95 100

174 74.0 0.0 150.6

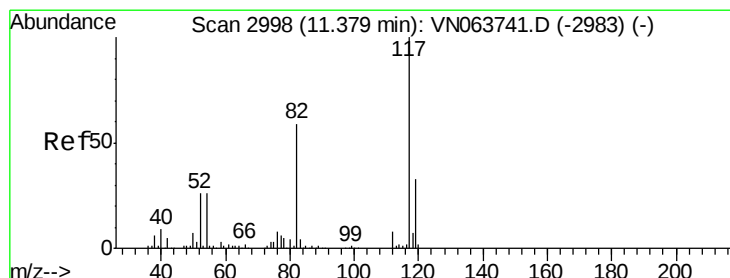
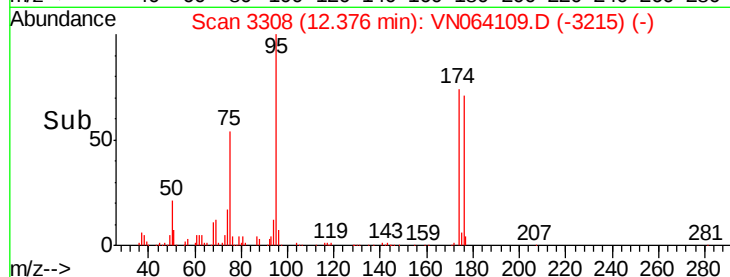
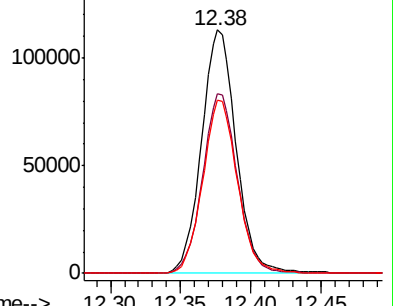
176 71.5 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063741.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN063741.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN063741.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

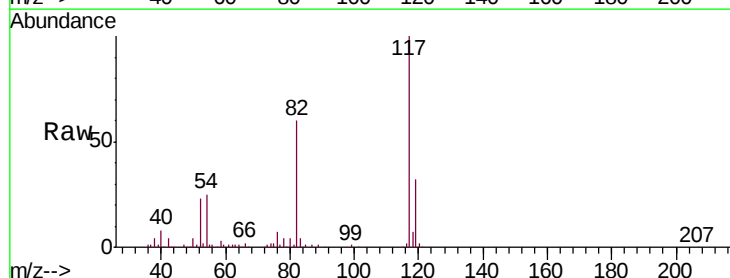
Tgt Ion: 117 Resp: 403829

Ion Ratio Lower Upper

117 100

82 59.9 47.4 71.2

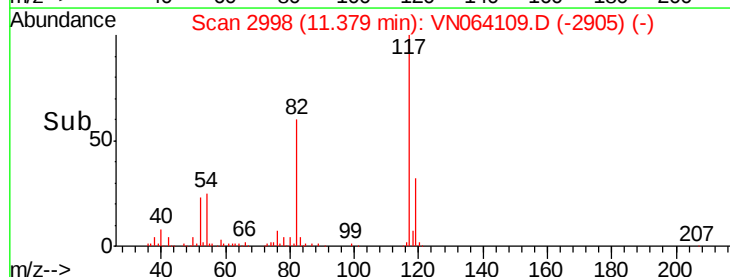
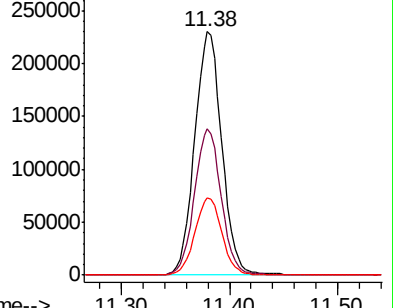
119 31.9 26.4 39.6

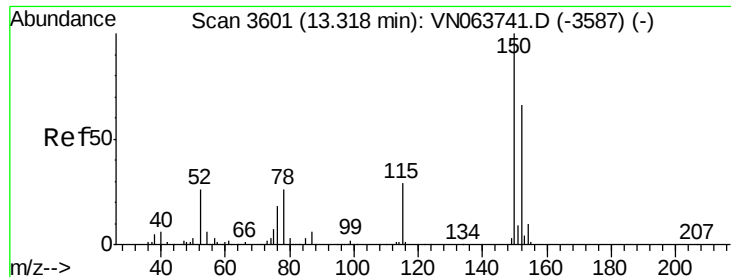


Abundance Ion 116.90 (116.60 to 117.60): VN063741.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063741.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063741.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

COMP-FRAC-TANKS

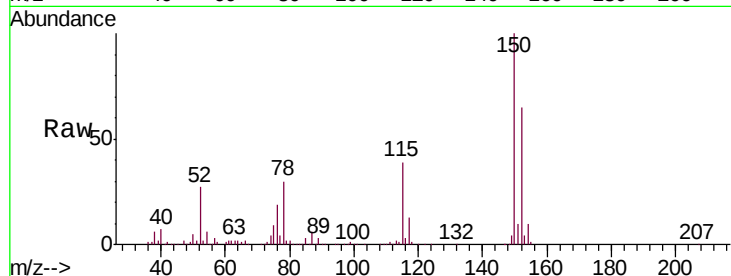
Tgt Ion: 152 Resp: 161091

Ion Ratio Lower Upper

152 100

115 60.7 31.3 93.8

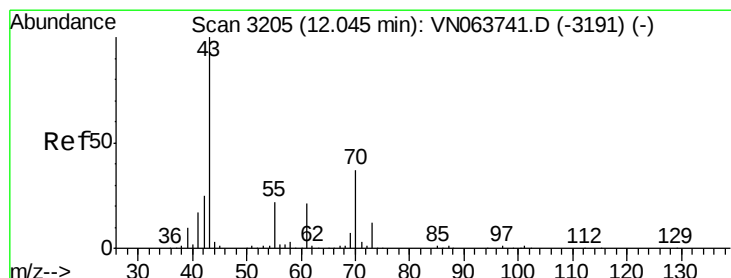
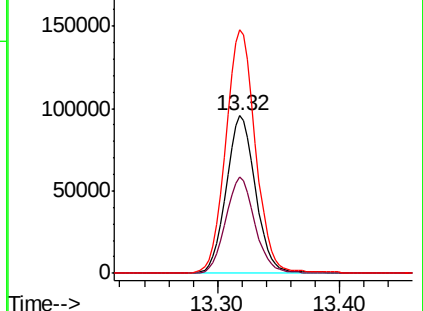
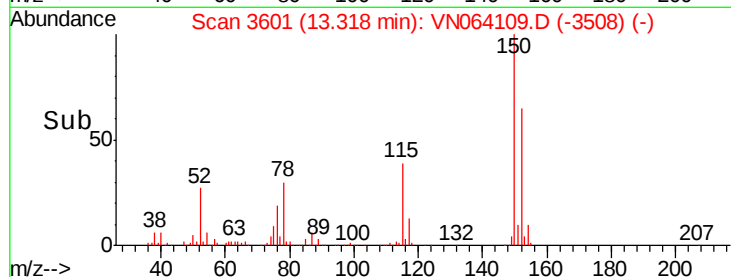
150 156.8 0.0 341.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.242 ug/l

RT: 12.03 min Scan# 3200

Delta R.T. -0.02 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Tgt Ion: 43 Resp: 149

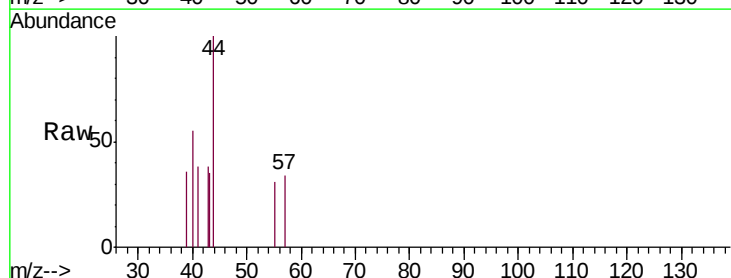
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 42.3 17.9 26.9#

61 0.0 17.0 25.4#

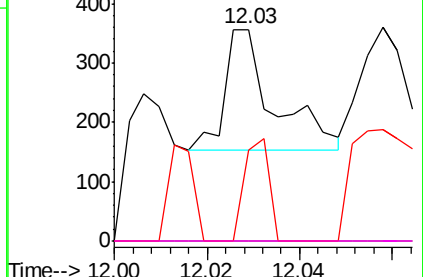
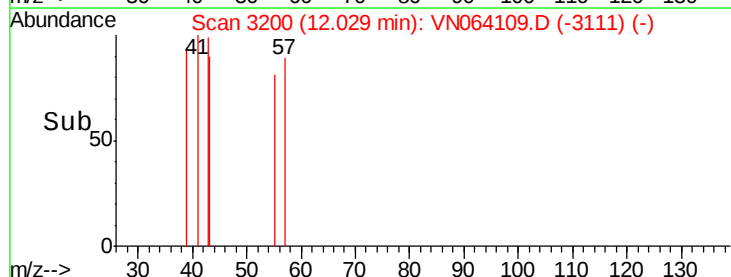


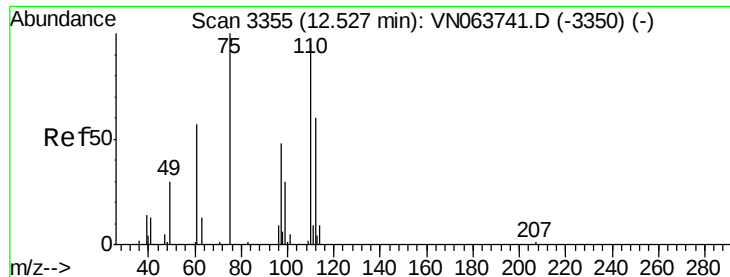
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.505 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

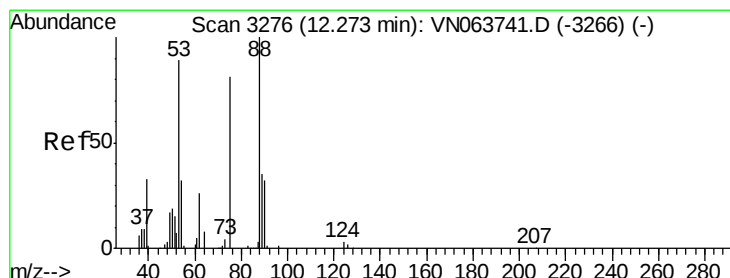
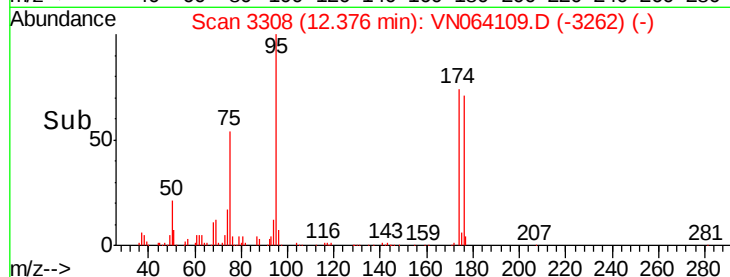
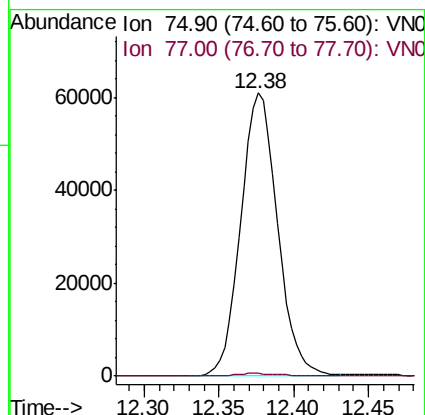
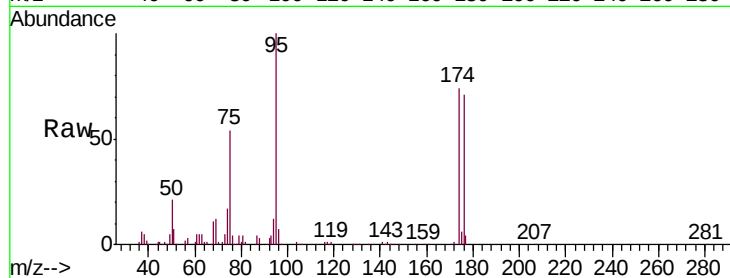
COMP-FRAC-TANKS

Tgt Ion: 75 Resp: 104776

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.980 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064109.D

Acq: 13 Oct 2020 18:22

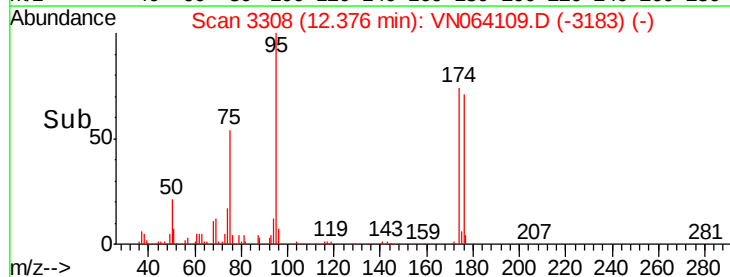
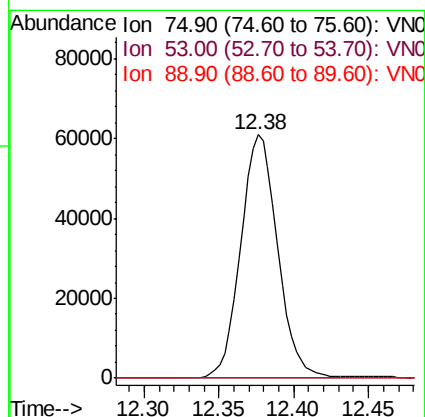
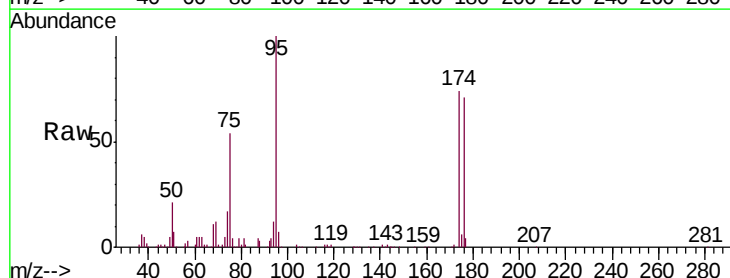
Tgt Ion: 75 Resp: 104776

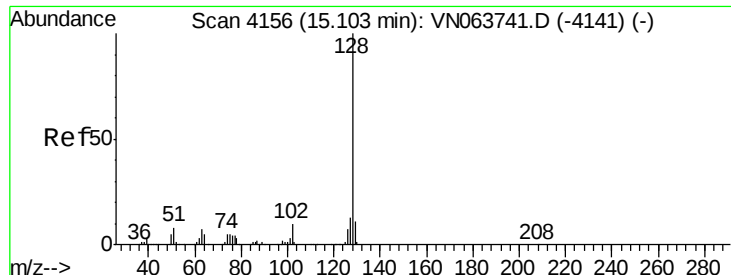
Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 2.043 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064109.D

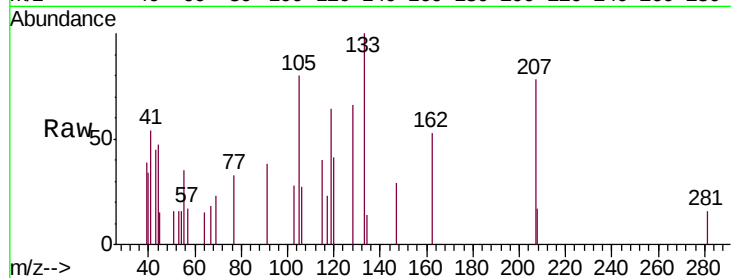
Acq: 13 Oct 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

COMP-FRAC-TANKS



Tgt Ion:	128	Resp:	1074
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	9.9	8.7	13.1

